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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Hollman AFB

L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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Quality Control Summary
SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

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.

Dissolved Solids by Method 2540 C-2011

Laboratory Control Sample

Samples L767115-02, -05, -07, -09, and -10 were analyzed in analytical batch WG791766. 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 WG791766 sample duplicate analysis was performed on sample L767115-10. The relative percent differences were within the method limits for target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG791766 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.

Mercury by Method 7470A

Laboratory Control Sample

Samples L767115-03, -04, -06, and -08 were analyzed in analytical batch WG791402. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Samples L767115-02, -05, -07, -09, and -10 were analyzed in analytical batch WG791426. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG791402 matrix spike/matrix spike duplicate analysis was performed on sample L767115-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG791402 matrix spike/matrix spike duplicate analysis was performed on sample L766887-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG791426 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. 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.

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Quality Control Summary
SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

Calibration Summary
Instrument CVAA5 was calibrated on 5/26/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument CVAA5 was calibrated on 5/27/2015. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010B
Laboratory Control Sample
Samples L767115-02, -05, -07, -09, and -10 were analyzed in analytical batch WG791630. 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 L767115-03, -04, -06, and -08 were analyzed in analytical batch WG791807. 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 WG791630 matrix spike/matrix spike duplicate analysis was performed on sample L766887-01. The matrix spike recoveries were below laboratory control limits for Aluminum. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for Aluminum.

For analytical batch WG791630 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG791807 matrix spike/matrix spike duplicate analysis was performed on sample L766887-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG791807 matrix spike/matrix spike duplicate analysis was performed on sample L767115-06. 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 5/29/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP13 was calibrated on 5/31/2015. The initial calibration and continuing calibration verification standards were within method limits.

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Quality Control Summary
SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

Trace Metals by Method 6020

Laboratory Control Sample

Samples L767115-02, -05, -07, and -09 were analyzed in analytical batch WG791805. 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. Only isotope 78 was used for Selenium.

Samples L767115-03, -04, -06, and -08 were analyzed in analytical batch WG791888. 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. Only isotope 78 was used for Selenium,Dissolved.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG791805 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. The matrix spike recoveries were above laboratory control limits for Manganese. The matrix spike recoveries were below laboratory control limits for Zinc. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

For analytical batch WG791805 matrix spike/matrix spike duplicate analysis was performed on sample L766887-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG791888 matrix spike/matrix spike duplicate analysis was performed on sample L766887-01. The matrix spike recoveries were below laboratory control limits for Zinc,Dissolved. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

For analytical batch WG791888 matrix spike/matrix spike duplicate analysis was performed on sample L767115-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis

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

Calibration Summary

Instrument ICPMS8 was calibrated on 5/31/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 6/2/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 6/3/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 5/29/2015. The initial calibration and continuing calibration verification standards were within method limits.

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Quality Control Summary
SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Samples L767115-01, -02, -05, -07, -09, and -11 were analyzed in analytical batch WG791367. The laboratory control sample associated with these samples had all target analytes within method limits except for Chloroethane. The relative percent difference exceeded laboratory limits for Chloromethane.

Samples L767115-01, -02, and -05 were analyzed in analytical batch WG793150. 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 WG791367 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. The matrix spike recoveries were below laboratory control limits for Styrene. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for 1,2-Dibromo-3-Chloropropane.

For analytical batch WG791367 matrix spike/matrix spike duplicate analysis was performed on sample L767160-06. The matrix spike recoveries were above laboratory control limits for Chloroethane. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

For analytical batch WG793150 matrix spike/matrix spike duplicate analysis was performed on sample L766854-09. 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 VOCMS7 was calibrated on 3/24/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS18 was calibrated on 5/1/2015. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were outside the laboratory control limits for L767115-07. The surrogate recoveries for the remaining samples were within method limits.

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 L767115-02, -05, and -09 were analyzed in analytical batch WG791571. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative

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Quality Control Summary
SDG: L767115
For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

percent difference exceeded laboratory limits for 4-Nitrophenol and Benzoic Acid.

Sample L767115-07 was analyzed in analytical batch WG791778. 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 L767115-02, -05, -07, and -09 were analyzed in analytical batch WG792025. 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 WG791571 was evaluated using the LCS/LCSD. The RPDs exceeded laboratory control limits for 4-Nitrophenol and Benzoic Acid. The other target analytes were within limits

For analytical batch WG791778 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. The matrix spike recoveries were below laboratory control limits for 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methyl Phenol, and 4-Chloro-3-methylphenol. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for 3&4-Methyl Phenol.

For analytical batch WG792025 matrix spike/matrix spike duplicate analysis was performed on sample L767115-07. The matrix spike recoveries were below laboratory control limits for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

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 BNAMS23 was calibrated on 5/19/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument BNAMS19 was calibrated on 5/27/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument BNAMS13 was calibrated on 5/21/2015. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were outside the laboratory control limits for L767115-02, L767115-07, and L767115-05. The surrogate recoveries for the remaining samples were within method limits.

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

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Quality Control Summary

SDG: L767115

For: URS Corporation - Tucson AZ - 1088308
Project: Hollman AFB
January 6, 2016

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2016.01.06 22:26:41 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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Est. 1970

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

Report Summary

Thursday June 25, 2015

Report Number: L767115
Samples Received: 05/23/15
Client Project: 60425210 23446543.00

Description: Hollman 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

June 25, 2015

ESC Sample # : L767115-01

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-FIELDBLANK-FT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l	J3	8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	0.75	0.38	0.50	1	ug/l	J	8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	0.51	0.35	0.50	1	ug/l	J	8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1

U = Not Detected at the LOD
Note:
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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-01

Site ID :

Project # : 60425210 23446543.00

Date Received : May 23, 2015
Description : Hollman AFB

Sample ID : H-SS059-FIELDBLANK-FT01

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/04/15	1
n-Propylbenzene	103-65-1	0.52	0.35	0.50	1	ug/l	J	8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	06/04/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	06/04/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/04/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/04/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	110.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	114.				% Rec.		8260B	06/02/15	1
4-Bromofluorobenzene	460-00-4	119.				% Rec.		8260B	06/02/15	1

U = Not Detected at the LOD
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-02

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-DT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	15000000	2800	5000	10000	ug/l		2540 C-	05/30/15	1
Antimony	7440-36-0	0.24	0.21	0.50	2	ug/l	J	6020	06/01/15	1
Arsenic	7440-38-2	42.	0.25	0.50	2	ug/l		6020	06/03/15	1
Barium	7440-39-3	52.	0.36	1.0	5	ug/l		6020	06/01/15	1
Beryllium	7440-41-7	U	0.12	0.50	2	ug/l		6020	06/01/15	1
Cadmium	7440-43-9	U	0.16	0.50	1	ug/l		6020	06/03/15	1
Chromium	7440-47-3	U	0.54	1.5	2	ug/l		6020	06/03/15	1
Copper	7440-50-8	U	0.52	1.5	5	ug/l		6020	06/01/15	1
Cobalt	7440-48-4	14.	0.26	0.50	2	ug/l		6020	06/01/15	1
Lead	7439-92-1	U	0.24	0.50	2	ug/l		6020	06/01/15	1
Manganese	7439-96-5	2100	0.25	0.50	5	ug/l		6020	06/01/15	1
Nickel	7440-02-0	9.1	0.35	1.0	2	ug/l		6020	06/01/15	1
Selenium	7782-49-2	1.4	0.38	1.0	2	ug/l	J	6020	06/01/15	1
Silver	7440-22-4	U	0.31	0.50	2	ug/l		6020	06/03/15	1
Thallium	7440-28-0	U	0.19	0.50	2	ug/l		6020	06/01/15	1
Vanadium	7440-62-2	9.6	0.18	0.50	5	ug/l		6020	06/01/15	1
Zinc	7440-66-6	U	2.6	5.0	25	ug/l		6020	06/01/15	1
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/27/15	1
Aluminum	7429-90-5	U	180	250	500	ug/l		6010B	05/29/15	5
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	0.67	0.4	0.50	1	ug/l	J	8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l	J3	8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1

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June 25, 2015

ESC Sample # : L767115-02

Site ID :

Project # : 60425210 23446543.00

Date Received : May 23, 2015
Description : Hollman AFB

Sample ID : H-SS059-MW52-DT01

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	0.53	0.35	0.50	1	ug/l	J	8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1
Methyl tert-butyl ether	1634-04-4	1.2	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/04/15	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	1.3	0.37	0.50	1	ug/l		8260B	06/04/15	1
1,3,5-Trimethylbenzene	108-67-8	1.3	0.39	0.50	1	ug/l		8260B	06/04/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/04/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/02/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	107.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	110.				% Rec.		8260B	06/02/15	1

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Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
4-Bromofluorobenzene	460-00-4	108.				% Rec.		8260B	06/02/15	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.0089	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Acenaphthene	83-32-9	0.031	0.011	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Acenaphthylene	208-96-8	U	0.0078	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)anthracene	56-55-3	U	0.0092	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)pyrene	50-32-8	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(b)fluoranthene	205-99-2	0.0025	0.0024	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Benzo(g,h,i)perylene	191-24-2	U	0.0025	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(k)fluoranthene	207-08-9	U	0.028	0.039	0.0555	ug/l		8270 C-	05/29/15	1.11
Chrysene	218-01-9	U	0.016	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Dibenz(a,h)anthracene	53-70-3	U	0.005	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluoranthene	206-44-0	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluorene	86-73-7	U	0.01	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0082	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Naphthalene	91-20-3	0.17	0.013	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Phenanthrene	85-01-8	U	0.02	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Pyrene	129-00-0	U	0.017	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
1-Methylnaphthalene	90-12-0	0.059	0.02	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
2-Methylnaphthalene	91-57-6	0.11	0.017	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	42.8				% Rec.		8270 C-	05/29/15	1.11
2-Fluorobiphenyl	321-60-8	29.5				% Rec.	J2	8270 C-	05/29/15	1.11
p-Terphenyl-d14	1718-51-0	29.9				% Rec.	J2	8270 C-	05/29/15	1.11
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.41	6.3	12.5	ug/l		8270C	05/27/15	1.25
Bis(2-chloroethyl)ether	111-44-4	U	2	6.3	12.5	ug/l		8270C	05/27/15	1.25
Bis(2-chloroisopropyl)ether	39638-32-9	U	0.56	6.3	12.5	ug/l		8270C	05/27/15	1.25
Benzyl Alcohol	100-51-6	U	0.49	6.3	12.5	ug/l		8270C	05/27/15	1.25
Carbazole	86-74-8	U	0.32	6.3	12.5	ug/l		8270C	05/27/15	1.25
Benzoic acid	65-85-0	U	0.55	6.3	12.5	ug/l	J3	8270C	05/27/15	1.25
Dibenzofuran	132-64-9	0.56	0.42	6.3	12.5	ug/l	J	8270C	05/27/15	1.25
4-Bromophenyl-phenylether	101-55-3	U	0.42	6.3	12.5	ug/l		8270C	05/27/15	1.25
2-Chloronaphthalene	91-58-7	U	0.41	0.63	1.25	ug/l		8270C	05/27/15	1.25
4-Chlorophenyl-phenylether	7005-72-3	U	0.38	6.3	12.5	ug/l		8270C	05/27/15	1.25
3,3-Dichlorobenzidine	91-94-1	U	2.5	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4-Dinitrotoluene	121-14-2	U	2.1	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,6-Dinitrotoluene	606-20-2	U	0.35	6.3	12.5	ug/l		8270C	05/27/15	1.25
Hexachlorobenzene	118-74-1	U	0.43	0.63	1.25	ug/l		8270C	05/27/15	1.25
Hexachloro-1,3-butadiene	87-68-3	U	0.41	6.3	12.5	ug/l		8270C	05/27/15	1.25
Hexachloroethane	67-72-1	U	0.46	6.3	12.5	ug/l		8270C	05/27/15	1.25
Isophorone	78-59-1	0.89	0.34	6.3	12.5	ug/l	J	8270C	05/27/15	1.25
Nitrobenzene	98-95-3	U	0.46	6.3	12.5	ug/l		8270C	05/27/15	1.25
n-Nitrosodimethylamine	62-75-9	U	1.6	6.3	12.5	ug/l		8270C	05/27/15	1.25

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Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
n-Nitrosodiphenylamine	86-30-6	U	0.38	6.3	12.5	ug/l		8270C	05/27/15	1.25
n-Nitrosodi-n-propylamine	621-64-7	U	0.5	6.3	12.5	ug/l		8270C	05/27/15	1.25
Benzylbutyl phthalate	85-68-7	U	0.34	1.3	3.75	ug/l		8270C	05/27/15	1.25
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.89	1.3	3.75	ug/l		8270C	05/27/15	1.25
Di-n-butyl phthalate	84-74-2	0.53	0.33	1.3	3.75	ug/l	J	8270C	05/27/15	1.25
Diethyl phthalate	84-66-2	U	0.35	1.3	3.75	ug/l		8270C	05/27/15	1.25
Dimethyl phthalate	131-11-3	U	0.35	1.3	3.75	ug/l		8270C	05/27/15	1.25
Di-n-octyl phthalate	117-84-0	U	0.35	1.3	3.75	ug/l		8270C	05/27/15	1.25
1,2,4-Trichlorobenzene	120-82-1	U	0.44	6.3	12.5	ug/l		8270C	05/27/15	1.25
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.33	6.3	12.5	ug/l		8270C	05/27/15	1.25
2-Chlorophenol	95-57-8	U	0.35	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4-Dichlorophenol	120-83-2	U	0.36	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4-Dimethylphenol	105-67-9	U	0.78	6.3	12.5	ug/l		8270C	05/27/15	1.25
4,6-Dinitro-2-methylphenol	534-52-1	U	3.3	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4-Dinitrophenol	51-28-5	U	4.1	6.3	12.5	ug/l		8270C	05/27/15	1.25
2-Methylphenol	95-48-7	U	0.39	6.3	12.5	ug/l		8270C	05/27/15	1.25
3&4-Methyl Phenol	3&4-Methyl	U	0.33	6.3	12.5	ug/l		8270C	05/27/15	1.25
2-Nitrophenol	88-75-5	U	0.4	6.3	12.5	ug/l		8270C	05/27/15	1.25
4-Nitrophenol	100-02-7	U	2.5	6.3	12.5	ug/l	J3	8270C	05/27/15	1.25
4-Chloroaniline	106-47-8	U	0.48	6.3	12.5	ug/l		8270C	05/27/15	1.25
2-Nitroaniline	88-74-4	U	2.4	6.3	12.5	ug/l		8270C	05/27/15	1.25
3-Nitroaniline	99-09-2	U	0.38	6.3	12.5	ug/l		8270C	05/27/15	1.25
1,2-Diphenylhydrazine	103-33-3	U	0.4	6.3	12.5	ug/l		8270C	05/27/15	1.25
4-Nitroaniline	100-01-6	U	0.44	6.3	12.5	ug/l		8270C	05/27/15	1.25
Pentachlorophenol	87-86-5	U	0.39	6.3	12.5	ug/l		8270C	05/27/15	1.25
Phenol	108-95-2	U	0.42	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4,5-Trichlorophenol	95-95-4	U	0.3	6.3	12.5	ug/l		8270C	05/27/15	1.25
2,4,6-Trichlorophenol	88-06-2	U	0.37	6.3	12.5	ug/l		8270C	05/27/15	1.25
Surrogate Recovery										
2-Fluorophenol	367-12-4	74.6				% Rec.		8270C	05/27/15	1.25
Phenol-d5	4165-62-2	64.3				% Rec.		8270C	05/27/15	1.25
Nitrobenzene-d5	4165-60-0	101.				% Rec.		8270C	05/27/15	1.25
2-Fluorobiphenyl	321-60-8	93.1				% Rec.		8270C	05/27/15	1.25
2,4,6-Tribromophenol	118-79-6	117.				% Rec.		8270C	05/27/15	1.25
p-Terphenyl-d14	1718-51-0	84.9				% Rec.		8270C	05/27/15	1.25

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-03

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-DD01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	0.33	0.21	0.50	2	ug/l	J	6020	05/29/15	1
Arsenic,Dissolved	7440-38-2	33.	0.25	0.50	2	ug/l		6020	05/31/15	1
Barium,Dissolved	7440-39-3	49.	0.36	1.0	5	ug/l		6020	05/29/15	1
Beryllium,Dissolved	7440-41-7	U	0.12	0.50	2	ug/l		6020	05/29/15	1
Cadmium,Dissolved	7440-43-9	U	0.16	0.50	1	ug/l		6020	05/29/15	1
Chromium,Dissolved	7440-47-3	U	0.54	1.5	2	ug/l		6020	05/29/15	1
Copper,Dissolved	7440-50-8	U	0.52	1.5	5	ug/l		6020	05/29/15	1
Cobalt,Dissolved	7440-48-4	13.	0.26	0.50	2	ug/l		6020	05/29/15	1
Lead,Dissolved	7439-92-1	U	0.24	0.50	2	ug/l		6020	05/29/15	1
Manganese,Dissolved	7439-96-5	2100	0.25	0.50	5	ug/l		6020	05/29/15	1
Nickel,Dissolved	7440-02-0	8.0	0.35	1.0	2	ug/l		6020	05/29/15	1
Selenium,Dissolved	7782-49-2	1.3	0.38	1.0	2	ug/l	J	6020	05/29/15	1
Silver,Dissolved	7440-22-4	U	0.31	0.50	2	ug/l		6020	05/29/15	1
Thallium,Dissolved	7440-28-0	U	0.19	0.50	2	ug/l		6020	05/29/15	1
Vanadium,Dissolved	7440-62-2	8.9	0.18	0.50	5	ug/l		6020	05/29/15	1
Zinc,Dissolved	7440-66-6	2.7	2.6	5.0	25	ug/l	J	6020	05/29/15	1
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/26/15	1
Aluminum,Dissolved	7429-90-5	84.	35	50.	100	ug/l	J	6010B	05/31/15	1

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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

June 25, 2015

ESC Sample # : L767115-04

Site ID :

Project # : 60425210 23446543.00

Date Received : May 23, 2015
Description : Hollman AFB

Sample ID : H-SS059-MW52-ND01

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	0.34	0.21	0.50	2	ug/l	J	6020	05/29/15	1
Arsenic,Dissolved	7440-38-2	35.	0.25	0.50	2	ug/l		6020	05/31/15	1
Barium,Dissolved	7440-39-3	50.	0.36	1.0	5	ug/l		6020	05/29/15	1
Beryllium,Dissolved	7440-41-7	U	0.12	0.50	2	ug/l		6020	05/29/15	1
Cadmium,Dissolved	7440-43-9	U	0.16	0.50	1	ug/l		6020	05/29/15	1
Chromium,Dissolved	7440-47-3	U	0.54	1.5	2	ug/l		6020	05/29/15	1
Copper,Dissolved	7440-50-8	U	0.52	1.5	5	ug/l		6020	05/29/15	1
Cobalt,Dissolved	7440-48-4	13.	0.26	0.50	2	ug/l		6020	05/29/15	1
Lead,Dissolved	7439-92-1	U	0.24	0.50	2	ug/l		6020	05/29/15	1
Manganese,Dissolved	7439-96-5	2000	0.25	0.50	5	ug/l		6020	05/29/15	1
Nickel,Dissolved	7440-02-0	8.1	0.35	1.0	2	ug/l		6020	05/29/15	1
Selenium,Dissolved	7782-49-2	1.4	0.38	1.0	2	ug/l	J	6020	05/29/15	1
Silver,Dissolved	7440-22-4	U	0.31	0.50	2	ug/l		6020	05/29/15	1
Thallium,Dissolved	7440-28-0	U	0.19	0.50	2	ug/l		6020	05/29/15	1
Vanadium,Dissolved	7440-62-2	8.6	0.18	0.50	5	ug/l		6020	05/29/15	1
Zinc,Dissolved	7440-66-6	U	2.6	5.0	25	ug/l		6020	05/29/15	1
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/26/15	1
Aluminum,Dissolved	7429-90-5	U	35	50.	100	ug/l		6010B	05/31/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-05

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	14000000	2800	5000	10000	ug/l		2540 C-	05/30/15	1
Antimony	7440-36-0	0.28	0.21	0.50	2	ug/l	J	6020	06/01/15	1
Arsenic	7440-38-2	41.	0.25	0.50	2	ug/l		6020	06/03/15	1
Barium	7440-39-3	52.	0.36	1.0	5	ug/l		6020	06/01/15	1
Beryllium	7440-41-7	U	0.12	0.50	2	ug/l		6020	06/01/15	1
Cadmium	7440-43-9	U	0.16	0.50	1	ug/l		6020	06/03/15	1
Chromium	7440-47-3	U	0.54	1.5	2	ug/l		6020	06/03/15	1
Copper	7440-50-8	0.82	0.52	1.5	5	ug/l	J	6020	06/01/15	1
Cobalt	7440-48-4	14.	0.26	0.50	2	ug/l		6020	06/01/15	1
Lead	7439-92-1	U	0.24	0.50	2	ug/l		6020	06/01/15	1
Manganese	7439-96-5	2100	0.25	0.50	5	ug/l		6020	06/01/15	1
Nickel	7440-02-0	8.9	0.35	1.0	2	ug/l		6020	06/01/15	1
Selenium	7782-49-2	1.3	0.38	1.0	2	ug/l	J	6020	06/01/15	1
Silver	7440-22-4	U	0.31	0.50	2	ug/l		6020	06/03/15	1
Thallium	7440-28-0	U	0.19	0.50	2	ug/l		6020	06/01/15	1
Vanadium	7440-62-2	9.5	0.18	0.50	5	ug/l		6020	06/01/15	1
Zinc	7440-66-6	U	2.6	5.0	25	ug/l		6020	06/01/15	1
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/27/15	1
Aluminum	7429-90-5	400	180	250	500	ug/l	J	6010B	05/29/15	5
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	0.74	0.4	0.50	1	ug/l	J	8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l	J3	8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1

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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

June 25, 2015

ESC Sample # : L767115-05

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	0.40	0.35	0.50	1	ug/l	J	8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1
Methyl tert-butyl ether	1634-04-4	1.2	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/04/15	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	1.3	0.37	0.50	1	ug/l		8260B	06/04/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	06/02/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/02/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/02/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	106.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	107.				% Rec.		8260B	06/02/15	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

June 25, 2015

ESC Sample # : L767115-05

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
4-Bromofluorobenzene	460-00-4	102.				% Rec.		8260B	06/02/15	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.0089	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Acenaphthene	83-32-9	0.031	0.011	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Acenaphthylene	208-96-8	U	0.0078	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)anthracene	56-55-3	U	0.0092	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)pyrene	50-32-8	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(b)fluoranthene	205-99-2	0.0024	0.0024	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Benzo(g,h,i)perylene	191-24-2	U	0.0025	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(k)fluoranthene	207-08-9	U	0.028	0.039	0.0555	ug/l		8270 C-	05/29/15	1.11
Chrysene	218-01-9	U	0.016	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Dibenz(a,h)anthracene	53-70-3	U	0.005	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluoranthene	206-44-0	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluorene	86-73-7	U	0.01	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0082	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Naphthalene	91-20-3	0.27	0.013	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Phenanthrene	85-01-8	U	0.02	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Pyrene	129-00-0	U	0.017	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
1-Methylnaphthalene	90-12-0	0.061	0.02	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
2-Methylnaphthalene	91-57-6	0.11	0.017	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	46.7				% Rec.		8270 C-	05/29/15	1.11
2-Fluorobiphenyl	321-60-8	27.8				% Rec.	J2	8270 C-	05/29/15	1.11
p-Terphenyl-d14	1718-51-0	31.3				% Rec.	J2	8270 C-	05/29/15	1.11
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	05/27/15	1
Bis(2-chloroisopropyl)ether	39638-32-9	U	0.44	5.0	10	ug/l		8270C	05/27/15	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	05/27/15	1
Carbazole	86-74-8	U	0.26	5.0	10	ug/l		8270C	05/27/15	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l	J3	8270C	05/27/15	1
Dibenzofuran	132-64-9	0.49	0.34	5.0	10	ug/l	J	8270C	05/27/15	1
4-Bromophenyl-phenylether	101-55-3	U	0.34	5.0	10	ug/l		8270C	05/27/15	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	05/27/15	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	05/27/15	1
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	05/27/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	05/27/15	1
Isophorone	78-59-1	0.72	0.27	5.0	10	ug/l	J	8270C	05/27/15	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	05/27/15	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	05/27/15	1

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Mt. Juliet, TN 37122
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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

June 25, 2015

ESC Sample # : L767115-05

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW52-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 12:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	05/27/15	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	05/27/15	1
Di-n-butyl phthalate	84-74-2	0.32	0.27	1.0	3	ug/l	J	8270C	05/27/15	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
Dimethyl phthalate	131-11-3	0.28	0.28	1.0	3	ug/l	J	8270C	05/27/15	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	05/27/15	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	05/27/15	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	05/27/15	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	05/27/15	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	05/27/15	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	05/27/15	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l	J3	8270C	05/27/15	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	05/27/15	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	05/27/15	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	05/27/15	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	05/27/15	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	05/27/15	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	58.6				% Rec.		8270C	05/27/15	1
Phenol-d5	4165-62-2	48.0				% Rec.		8270C	05/27/15	1
Nitrobenzene-d5	4165-60-0	81.2				% Rec.		8270C	05/27/15	1
2-Fluorobiphenyl	321-60-8	67.8				% Rec.		8270C	05/27/15	1
2,4,6-Tribromophenol	118-79-6	87.5				% Rec.		8270C	05/27/15	1
p-Terphenyl-d14	1718-51-0	61.4				% Rec.		8270C	05/27/15	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

June 25, 2015

ESC Sample # : L767115-06

Site ID :

Project # : 60425210 23446543.00

Date Received : May 23, 2015
Description : Hollman AFB

Sample ID : H-SS059-MW51-ND01

Collected By : Jon Mallonee
Collection Date : 05/21/15 15:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	0.44	0.21	0.50	2	ug/l	J	6020	05/29/15	1
Arsenic,Dissolved	7440-38-2	2.7	0.25	0.50	2	ug/l		6020	05/31/15	1
Barium,Dissolved	7440-39-3	60.	0.36	1.0	5	ug/l		6020	05/29/15	1
Beryllium,Dissolved	7440-41-7	U	0.12	0.50	2	ug/l		6020	05/29/15	1
Cadmium,Dissolved	7440-43-9	0.21	0.16	0.50	1	ug/l	J	6020	05/29/15	1
Chromium,Dissolved	7440-47-3	U	0.54	1.5	2	ug/l		6020	05/29/15	1
Copper,Dissolved	7440-50-8	0.97	0.52	1.5	5	ug/l	J	6020	05/29/15	1
Cobalt,Dissolved	7440-48-4	3.0	0.26	0.50	2	ug/l		6020	05/29/15	1
Lead,Dissolved	7439-92-1	U	0.24	0.50	2	ug/l		6020	05/29/15	1
Manganese,Dissolved	7439-96-5	590	0.25	0.50	5	ug/l		6020	05/29/15	1
Nickel,Dissolved	7440-02-0	7.8	0.35	1.0	2	ug/l		6020	05/29/15	1
Selenium,Dissolved	7782-49-2	7.0	0.38	1.0	2	ug/l		6020	05/29/15	1
Silver,Dissolved	7440-22-4	U	0.31	0.50	2	ug/l		6020	05/29/15	1
Thallium,Dissolved	7440-28-0	U	0.19	0.50	2	ug/l		6020	05/29/15	1
Vanadium,Dissolved	7440-62-2	7.6	0.18	0.50	5	ug/l		6020	05/29/15	1
Zinc,Dissolved	7440-66-6	U	2.6	5.0	25	ug/l		6020	05/29/15	1
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/26/15	1
Aluminum,Dissolved	7429-90-5	110	35	50.	100	ug/l		6010B	05/31/15	1

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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

June 25, 2015

ESC Sample # : L767115-07

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW51-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 15:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	15000000	2800	5000	10000	ug/l		2540 C-	05/30/15	1
Antimony	7440-36-0	3.1	0.21	0.50	2	ug/l		6020	06/03/15	1
Arsenic	7440-38-2	3.0	0.25	0.50	2	ug/l		6020	06/03/15	1
Barium	7440-39-3	65.	0.36	1.0	5	ug/l		6020	06/03/15	1
Beryllium	7440-41-7	U	0.12	0.50	2	ug/l		6020	06/03/15	1
Cadmium	7440-43-9	0.17	0.16	0.50	1	ug/l	J	6020	06/03/15	1
Chromium	7440-47-3	U	0.54	1.5	2	ug/l		6020	06/03/15	1
Copper	7440-50-8	1.3	0.52	1.5	5	ug/l	J	6020	06/03/15	1
Cobalt	7440-48-4	2.6	0.26	0.50	2	ug/l		6020	06/03/15	1
Lead	7439-92-1	0.26	0.24	0.50	2	ug/l	J	6020	06/03/15	1
Manganese	7439-96-5	480	0.25	0.50	5	ug/l	V	6020	06/03/15	1
Nickel	7440-02-0	7.1	0.35	1.0	2	ug/l		6020	06/03/15	1
Selenium	7782-49-2	7.6	0.38	1.0	2	ug/l		6020	06/03/15	1
Silver	7440-22-4	U	0.31	0.50	2	ug/l		6020	06/03/15	1
Thallium	7440-28-0	U	0.19	0.50	2	ug/l		6020	06/03/15	1
Vanadium	7440-62-2	7.7	0.18	0.50	5	ug/l		6020	06/03/15	1
Zinc	7440-66-6	2.9	2.6	5.0	25	ug/l	JJ6	6020	06/03/15	1
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/27/15	1
Aluminum	7429-90-5	410	180	250	500	ug/l	J	6010B	05/29/15	5
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l	J3	8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-07

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW51-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 15:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/02/15	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l	J6	8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	06/02/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/02/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/02/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	110.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	113.				% Rec.		8260B	06/02/15	1

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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-07

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW51-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 15:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
4-Bromofluorobenzene	460-00-4	123.				% Rec.	J1	8260B	06/02/15	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.0089	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Acenaphthene	83-32-9	U	0.011	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Acenaphthylene	208-96-8	U	0.0078	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)anthracene	56-55-3	U	0.0092	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Benzo(a)pyrene	50-32-8	U	0.018	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Benzo(b)fluoranthene	205-99-2	U	0.0024	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Benzo(g,h,i)perylene	191-24-2	U	0.0025	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Benzo(k)fluoranthene	207-08-9	U	0.028	0.039	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Chrysene	218-01-9	U	0.016	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Dibenz(a,h)anthracene	53-70-3	U	0.005	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Fluoranthene	206-44-0	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluorene	86-73-7	U	0.01	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0082	0.028	0.0555	ug/l	J6	8270 C-	05/29/15	1.11
Naphthalene	91-20-3	0.016	0.013	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Phenanthrene	85-01-8	U	0.02	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Pyrene	129-00-0	U	0.017	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
1-Methylnaphthalene	90-12-0	U	0.02	0.028	0.2775	ug/l		8270 C-	05/29/15	1.11
2-Methylnaphthalene	91-57-6	U	0.017	0.028	0.2775	ug/l		8270 C-	05/29/15	1.11
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	47.8				% Rec.		8270 C-	05/29/15	1.11
2-Fluorobiphenyl	321-60-8	42.7				% Rec.		8270 C-	05/29/15	1.11
p-Terphenyl-d14	1718-51-0	44.9				% Rec.		8270 C-	05/29/15	1.11
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	05/28/15	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	05/28/15	1
Bis(2-chloroisopropyl)ether	39638-32-9	U	0.44	5.0	10	ug/l		8270C	05/28/15	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	05/28/15	1
Carbazole	86-74-8	U	0.26	5.0	10	ug/l		8270C	05/28/15	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l		8270C	05/28/15	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	05/28/15	1
4-Bromophenyl-phenylether	101-55-3	U	0.34	5.0	10	ug/l		8270C	05/28/15	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	05/28/15	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	05/28/15	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	05/28/15	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	05/28/15	1
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	05/28/15	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	05/28/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	05/28/15	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	05/28/15	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	05/28/15	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	05/28/15	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	05/28/15	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

June 25, 2015

ESC Sample # : L767115-07

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW51-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 15:28

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	05/28/15	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	05/28/15	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	05/28/15	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	05/28/15	1
Di-n-butyl phthalate	84-74-2	0.41	0.27	1.0	3	ug/l	J	8270C	05/28/15	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	05/28/15	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	05/28/15	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	05/28/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	05/28/15	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l	J6	8270C	05/28/15	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	05/28/15	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	05/28/15	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l	J6	8270C	05/28/15	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	05/28/15	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	05/28/15	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l	J6	8270C	05/28/15	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l	J6J3	8270C	05/28/15	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	05/28/15	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	05/28/15	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	05/28/15	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	05/28/15	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	05/28/15	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	05/28/15	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	05/28/15	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	05/28/15	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	05/28/15	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	05/28/15	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	05/28/15	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	2.05				% Rec.	J2	8270C	05/28/15	1
Phenol-d5	4165-62-2	1.51				% Rec.	J2	8270C	05/28/15	1
Nitrobenzene-d5	4165-60-0	60.1				% Rec.		8270C	05/28/15	1
2-Fluorobiphenyl	321-60-8	69.1				% Rec.		8270C	05/28/15	1
2,4,6-Tribromophenol	118-79-6	22.0				% Rec.		8270C	05/28/15	1
p-Terphenyl-d14	1718-51-0	62.8				% Rec.		8270C	05/28/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-08

Site ID :

Project # : 60425210 23446543.00

Date Received : May 23, 2015
Description : Hollman AFB

Sample ID : H-SS059-MW50-ND01

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	0.27	0.21	0.50	2	ug/l	J	6020	05/29/15	1
Arsenic,Dissolved	7440-38-2	7.1	0.25	0.50	2	ug/l		6020	05/31/15	1
Barium,Dissolved	7440-39-3	62.	0.36	1.0	5	ug/l		6020	05/29/15	1
Beryllium,Dissolved	7440-41-7	U	0.12	0.50	2	ug/l		6020	05/29/15	1
Cadmium,Dissolved	7440-43-9	0.17	0.16	0.50	1	ug/l	J	6020	05/29/15	1
Chromium,Dissolved	7440-47-3	U	0.54	1.5	2	ug/l		6020	05/29/15	1
Copper,Dissolved	7440-50-8	0.90	0.52	1.5	5	ug/l	J	6020	05/29/15	1
Cobalt,Dissolved	7440-48-4	0.70	0.26	0.50	2	ug/l	J	6020	05/29/15	1
Lead,Dissolved	7439-92-1	0.27	0.24	0.50	2	ug/l	J	6020	05/29/15	1
Manganese,Dissolved	7439-96-5	130	0.25	0.50	5	ug/l		6020	05/29/15	1
Nickel,Dissolved	7440-02-0	1.9	0.35	1.0	2	ug/l	J	6020	05/29/15	1
Selenium,Dissolved	7782-49-2	11.	0.38	1.0	2	ug/l		6020	05/29/15	1
Silver,Dissolved	7440-22-4	U	0.31	0.50	2	ug/l		6020	05/29/15	1
Thallium,Dissolved	7440-28-0	U	0.19	0.50	2	ug/l		6020	05/29/15	1
Vanadium,Dissolved	7440-62-2	17.	0.18	0.50	5	ug/l		6020	05/29/15	1
Zinc,Dissolved	7440-66-6	U	2.6	5.0	25	ug/l		6020	05/29/15	1
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/26/15	1
Aluminum,Dissolved	7429-90-5	72.	35	50.	100	ug/l	J	6010B	05/31/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-09

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW50-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	21000000	2800	5000	10000	ug/l		2540 C-	05/30/15	1
Antimony	7440-36-0	0.36	0.21	0.50	2	ug/l	J	6020	06/01/15	1
Arsenic	7440-38-2	8.4	0.25	0.50	2	ug/l		6020	06/03/15	1
Barium	7440-39-3	65.	0.36	1.0	5	ug/l		6020	06/01/15	1
Beryllium	7440-41-7	U	0.12	0.50	2	ug/l		6020	06/01/15	1
Cadmium	7440-43-9	U	0.16	0.50	1	ug/l		6020	06/03/15	1
Chromium	7440-47-3	U	0.54	1.5	2	ug/l		6020	06/03/15	1
Copper	7440-50-8	0.65	0.52	1.5	5	ug/l	J	6020	06/01/15	1
Cobalt	7440-48-4	0.78	0.26	0.50	2	ug/l	J	6020	06/01/15	1
Lead	7439-92-1	U	0.24	0.50	2	ug/l		6020	06/01/15	1
Manganese	7439-96-5	130	0.25	0.50	5	ug/l		6020	06/01/15	1
Nickel	7440-02-0	2.0	0.35	1.0	2	ug/l		6020	06/01/15	1
Selenium	7782-49-2	11.	0.38	1.0	2	ug/l		6020	06/01/15	1
Silver	7440-22-4	U	0.31	0.50	2	ug/l		6020	06/03/15	1
Thallium	7440-28-0	U	0.19	0.50	2	ug/l		6020	06/01/15	1
Vanadium	7440-62-2	19.	0.18	0.50	5	ug/l		6020	06/01/15	1
Zinc	7440-66-6	U	2.6	5.0	25	ug/l		6020	06/01/15	1
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/27/15	1
Aluminum	7429-90-5	250	180	250	500	ug/l	J	6010B	05/29/15	5
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l	J3	8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-09

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW50-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/02/15	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	06/02/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/02/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/02/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	107.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	114.				% Rec.		8260B	06/02/15	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

June 25, 2015

ESC Sample # : L767115-09

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW50-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
4-Bromofluorobenzene	460-00-4	109.				% Rec.		8260B	06/02/15	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	0.0096	0.0089	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Acenaphthene	83-32-9	U	0.011	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Acenaphthylene	208-96-8	U	0.0078	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(a)anthracene	56-55-3	0.012	0.0092	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Benzo(a)pyrene	50-32-8	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Benzo(b)fluoranthene	205-99-2	0.0063	0.0024	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Benzo(g,h,i)perylene	191-24-2	0.0056	0.0025	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Benzo(k)fluoranthene	207-08-9	U	0.028	0.039	0.0555	ug/l		8270 C-	05/29/15	1.11
Chrysene	218-01-9	U	0.016	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Dibenz(a,h)anthracene	53-70-3	0.0059	0.005	0.028	0.0555	ug/l	J	8270 C-	05/29/15	1.11
Fluoranthene	206-44-0	U	0.018	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Fluorene	86-73-7	U	0.01	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0082	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Naphthalene	91-20-3	0.018	0.013	0.028	0.2775	ug/l	J	8270 C-	05/29/15	1.11
Phenanthrene	85-01-8	U	0.02	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
Pyrene	129-00-0	U	0.017	0.028	0.0555	ug/l		8270 C-	05/29/15	1.11
1-Methylnaphthalene	90-12-0	U	0.02	0.028	0.2775	ug/l		8270 C-	05/29/15	1.11
2-Methylnaphthalene	91-57-6	U	0.017	0.028	0.2775	ug/l		8270 C-	05/29/15	1.11
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	56.0				% Rec.		8270 C-	05/29/15	1.11
2-Fluorobiphenyl	321-60-8	45.0				% Rec.		8270 C-	05/29/15	1.11
p-Terphenyl-d14	1718-51-0	44.6				% Rec.		8270 C-	05/29/15	1.11
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	05/27/15	1
Bis(2-chloroisopropyl)ether	39638-32-9	U	0.44	5.0	10	ug/l		8270C	05/27/15	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	05/27/15	1
Carbazole	86-74-8	U	0.26	5.0	10	ug/l		8270C	05/27/15	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l	J3	8270C	05/27/15	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	05/27/15	1
4-Bromophenyl-phenylether	101-55-3	U	0.34	5.0	10	ug/l		8270C	05/27/15	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	05/27/15	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	05/27/15	1
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	05/27/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	05/27/15	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	05/27/15	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	05/27/15	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	05/27/15	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

June 25, 2015

ESC Sample # : L767115-09

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-SS059-MW50-NT01

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 17:13

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	05/27/15	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	05/27/15	1
Di-n-butyl phthalate	84-74-2	0.41	0.27	1.0	3	ug/l	J	8270C	05/27/15	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	05/27/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	05/27/15	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	05/27/15	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	05/27/15	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	05/27/15	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	05/27/15	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	05/27/15	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	05/27/15	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l	J3	8270C	05/27/15	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	05/27/15	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	05/27/15	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	05/27/15	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	05/27/15	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	05/27/15	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	05/27/15	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	05/27/15	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	05/27/15	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	49.0				% Rec.		8270C	05/27/15	1
Phenol-d5	4165-62-2	33.4				% Rec.		8270C	05/27/15	1
Nitrobenzene-d5	4165-60-0	62.2				% Rec.		8270C	05/27/15	1
2-Fluorobiphenyl	321-60-8	66.1				% Rec.		8270C	05/27/15	1
2,4,6-Tribromophenol	118-79-6	78.3				% Rec.		8270C	05/27/15	1
p-Terphenyl-d14	1718-51-0	65.8				% Rec.		8270C	05/27/15	1

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-10

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-TU506-MW05-NT02

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 10:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	3200000	2800	5000	10000	ug/l		2540 C-	05/30/15	1
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	05/27/15	1
Aluminum	7429-90-5	220	180	250	500	ug/l	J	6010B	05/29/15	5

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REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-11

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-TUQC-TRIPBLANK-TT02

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 08:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	06/02/15	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	06/02/15	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	06/02/15	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	06/02/15	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	06/02/15	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l	J4	8260B	06/02/15	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	06/02/15	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l	J3	8260B	06/02/15	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	06/02/15	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	06/02/15	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	06/02/15	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	06/02/15	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	06/02/15	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	06/02/15	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	06/02/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	06/02/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	06/02/15	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	06/02/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	06/02/15	1

U = Not Detected at the LOD
Note:
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Reported: 06/25/15 13:52 Printed: 06/25/15 13:57

12065 Lebanon Rd.
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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

June 25, 2015

ESC Sample # : L767115-11

Date Received : May 23, 2015
Description : Hollman AFB

Site ID :

Sample ID : H-TUQC-TRIPBLANK-TT02

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 05/21/15 08:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	06/02/15	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	06/02/15	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	06/02/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.75	1	ug/l		8260B	06/02/15	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	06/02/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	0.50	1	ug/l		8260B	06/02/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	06/02/15	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	06/02/15	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	06/02/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	06/02/15	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	06/02/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	06/02/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	06/02/15	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	06/02/15	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	06/02/15	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	06/02/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	108.				% Rec.		8260B	06/02/15	1
Dibromofluoromethane	1868-53-7	109.				% Rec.		8260B	06/02/15	1
4-Bromofluorobenzene	460-00-4	111.				% Rec.		8260B	06/02/15	1

U = Not Detected at the LOD
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L767115-01	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	Chloromethane	R3040763	J3
	WG791367	SAMP	Ethylbenzene	R3040763	J
	WG791367	SAMP	p-Isopropyltoluene	R3040763	J
	WG791367	SAMP	n-Propylbenzene	R3040763	J
L767115-02	WG791805	SAMP	Antimony	R3041019	J
	WG791805	SAMP	Selenium	R3041019	J
	WG791367	SAMP	tert-Butylbenzene	R3040763	J
	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	Chloromethane	R3040763	J3
	WG791367	SAMP	p-Isopropyltoluene	R3040763	J
	WG792025	SAMP	Acenaphthene	R3040083	J
	WG792025	SAMP	Benzo(b)fluoranthene	R3040083	J
	WG792025	SAMP	Naphthalene	R3040083	J
	WG792025	SAMP	1-Methylnaphthalene	R3040083	J
	WG792025	SAMP	2-Methylnaphthalene	R3040083	J
	WG792025	SAMP	2-Fluorobiphenyl	R3040083	J2
	WG792025	SAMP	p-Terphenyl-d14	R3040083	J2
	WG791571	SAMP	Benzoic acid	R3039820	J3
	WG791571	SAMP	Dibenzofuran	R3039820	J
	WG791571	SAMP	Isophorone	R3039820	J
	WG791571	SAMP	Di-n-butyl phthalate	R3039820	J
	WG791571	SAMP	4-Nitrophenol	R3039820	J3
L767115-03	WG791888	SAMP	Antimony,Dissolved	R3040353	J
	WG791888	SAMP	Selenium,Dissolved	R3040353	J
	WG791888	SAMP	Zinc,Dissolved	R3040353	J
	WG791807	SAMP	Aluminum,Dissolved	R3040373	J
L767115-04	WG791888	SAMP	Antimony,Dissolved	R3040353	J
	WG791888	SAMP	Selenium,Dissolved	R3040353	J
L767115-05	WG791805	SAMP	Antimony	R3041019	J
	WG791805	SAMP	Copper	R3041019	J
	WG791805	SAMP	Selenium	R3041019	J
	WG791630	SAMP	Aluminum	R3040131	J
	WG791367	SAMP	tert-Butylbenzene	R3040763	J
	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	Chloromethane	R3040763	J3
	WG791367	SAMP	p-Isopropyltoluene	R3040763	J
	WG792025	SAMP	Acenaphthene	R3040083	J
	WG792025	SAMP	Benzo(b)fluoranthene	R3040083	J
	WG792025	SAMP	Naphthalene	R3040083	J
	WG792025	SAMP	1-Methylnaphthalene	R3040083	J
	WG792025	SAMP	2-Methylnaphthalene	R3040083	J
	WG792025	SAMP	2-Fluorobiphenyl	R3040083	J2
	WG792025	SAMP	p-Terphenyl-d14	R3040083	J2
	WG791571	SAMP	Benzoic acid	R3039820	J3
	WG791571	SAMP	Dibenzofuran	R3039820	J
	WG791571	SAMP	Isophorone	R3039820	J
	WG791571	SAMP	Di-n-butyl phthalate	R3039820	J
	WG791571	SAMP	Dimethyl phthalate	R3039820	J
	WG791571	SAMP	4-Nitrophenol	R3039820	J3
L767115-06	WG791888	SAMP	Antimony,Dissolved	R3040353	J
	WG791888	SAMP	Cadmium,Dissolved	R3040353	J
	WG791888	SAMP	Copper,Dissolved	R3040353	J
L767115-07	WG791805	SAMP	Cadmium	R3040931	J
	WG791805	SAMP	Copper	R3040931	J
	WG791805	SAMP	Lead	R3040931	J
	WG791805	SAMP	Manganese	R3040931	V
	WG791805	SAMP	Zinc	R3040931	JJ6
	WG791630	SAMP	Aluminum	R3040131	J
	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	1,2-Dibromo-3-Chloropropane	R3040763	J3
	WG791367	SAMP	Styrene	R3040763	J6
	WG791367	SAMP	4-Bromofluorobenzene	R3040763	J1
	WG792025	SAMP	Benzo(a)anthracene	R3040083	J6
	WG792025	SAMP	Benzo(a)pyrene	R3040083	J6
	WG792025	SAMP	Benzo(b)fluoranthene	R3040083	J6
	WG792025	SAMP	Benzo(g,h,i)perylene	R3040083	J6
	WG792025	SAMP	Benzo(k)fluoranthene	R3040083	J6
	WG792025	SAMP	Chrysene	R3040083	J6

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG792025	SAMP	Dibenz(a,h)anthracene	R3040083	J6
	WG792025	SAMP	Indeno(1,2,3-cd)pyrene	R3040083	J6
	WG792025	SAMP	Naphthalene	R3040083	J
	WG791778	SAMP	Di-n-butyl phthalate	R3039954	J
	WG791778	SAMP	4-Chloro-3-methylphenol	R3039954	J6
	WG791778	SAMP	2,4-Dimethylphenol	R3039954	J6
	WG791778	SAMP	2-Methylphenol	R3039954	J6
	WG791778	SAMP	3&4-Methyl Phenol	R3039954	J6J3
	WG791778	SAMP	2-Fluorophenol	R3039954	J2
	WG791778	SAMP	Phenol-d5	R3039954	J2
L767115-08	WG791888	SAMP	Antimony,Dissolved	R3040353	J
	WG791888	SAMP	Cadmium,Dissolved	R3040353	J
	WG791888	SAMP	Copper,Dissolved	R3040353	J
	WG791888	SAMP	Cobalt,Dissolved	R3040353	J
	WG791888	SAMP	Lead,Dissolved	R3040353	J
	WG791888	SAMP	Nickel,Dissolved	R3040353	J
	WG791807	SAMP	Aluminum,Dissolved	R3040373	J
L767115-09	WG791805	SAMP	Antimony	R3041019	J
	WG791805	SAMP	Copper	R3041019	J
	WG791805	SAMP	Cobalt	R3041019	J
	WG791630	SAMP	Aluminum	R3040131	J
	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	Chloromethane	R3040763	J3
	WG792025	SAMP	Anthracene	R3040083	J
	WG792025	SAMP	Benzo(a)anthracene	R3040083	J
	WG792025	SAMP	Benzo(b)fluoranthene	R3040083	J
	WG792025	SAMP	Benzo(g,h,i)perylene	R3040083	J
	WG792025	SAMP	Dibenz(a,h)anthracene	R3040083	J
	WG792025	SAMP	Naphthalene	R3040083	J
	WG791571	SAMP	Benzoic acid	R3039820	J3
	WG791571	SAMP	Di-n-butyl phthalate	R3039820	J
	WG791571	SAMP	4-Nitrophenol	R3039820	J3
L767115-10	WG791630	SAMP	Aluminum	R3040131	J
L767115-11	WG791367	SAMP	Chloroethane	R3040763	J4
	WG791367	SAMP	Chloromethane	R3040763	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
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.

Dissolved Solids by Method 2540 C-2011

12065 Lebanon Rd
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Est. 1970

Quality Control Summary
SDG: L767115

Dissolved Solids by Method 2540 C-2011
URS Corporation - Tucson AZ - 1088308

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791766**
Analysis Date:	5/30/2015 7:34:00 AM	Analyst:	512
Instrument ID:	WETBAL1		
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Workgroup: **WG791766**
Description: **TDS by Method 2540 C-2011 (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 1x	05/21/2015	05/28/2015	05/30/2015
L767115-05 1x	05/21/2015	05/28/2015	05/30/2015
L767115-07 1x	05/21/2015	05/28/2015	05/30/2015
L767115-09 1x	05/21/2015	05/28/2015	05/30/2015
L767115-10 1x	05/21/2015	05/28/2015	05/30/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791766**
Analysis Date:	5/30/2015 7:34:00 AM	Analyst:	512
Instrument ID:	WETBAL1		
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
WETBAL1	LCSD WG791766	LCSD WG791766		5/30/2015	7:33 AM
WETBAL1	H-SS059-MW50-NT01	L767115-09		5/30/2015	7:33 AM
WETBAL1	H-TU506-MW05-NT02	L767115-10		5/30/2015	7:33 AM
WETBAL1	LCS WG791766	LCS WG791766		5/30/2015	7:34 AM
WETBAL1	DUP WG791766	DUP WG791766		5/30/2015	7:34 AM
WETBAL1	H-SS059-MW52-DT01	L767115-02		5/30/2015	7:34 AM
WETBAL1	H-SS059-MW52-NT01	L767115-05		5/30/2015	7:34 AM
WETBAL1	Blank WG791766	Blank WG791766		5/30/2015	7:35 AM
WETBAL1	H-SS059-MW51-NT01	L767115-07		5/30/2015	7:35 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791766**
Analysis Date:	5/30/2015 7:34:00 AM	Analyst:	512
Instrument ID:	WETBAL1		
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Dissolved Solids	DSOLIDS	< 10.0	< 2.82	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Dissolved Solids	1	8800	8690	98.8	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Dissolved Solids	1	8800	8710	99	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Dissolved Solids	1	8800	8690	98.8	8710	99	85 - 115		0.23	5	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791766**
Analysis Date:	5/30/2015 7:34:00 AM	Analyst:	512
Instrument ID:	WETBAL1		
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Sample Duplicate

L767115-10

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Dissolved Solids	1	3185	3170	0.47	5	

Parameters in bold text are reported in this SDG

Raw Data

Laboratory Bench Sheet

Total Dissolved Solids

5/30/2015 7:35 AM

Workgroup:

WG791766

	Std. ID	Exp. Date	True Value
LCS	15E27338	11/27/15	8800

Method: SM-2540 C-2011 (GW,WW) / 2540 C-1997 (DW)

Prep Analyst: 512

Prep Date/Time: 05/28/15 1329

Instrument: WETBAL1

Capture Analyst: 632

Analysis Date: 05/29/15 0810

State	Sample ID	Mtx	Collect Date	Vessel ID	A Vessel Wt	B Volume Used (ml)	F Oven 2 Wt 1 (g)	G Oven 2 Wt 2 (g)	H Oven 2 Wt Diff (g)	I Residue Wt (g)	J Result TDS (mg/L)	K % Rec TDS (%)	L RPD TDS	Quals TDS
	BLANK	QC	5/28/2015	38	60.7543	100.00	60.7544	60.7545	0.0001	0.0002	2.00			
	LCS	QC	5/28/2015	520	60.7791	10.00	60.8653	60.8660	0.0007	0.0869	8690.00	98.75		
	LCSD	QC	5/28/2015	AP	60.9621	10.00	61.0481	61.0492	0.0011	0.0871	8710.00	98.98	0.23	
AZ	L767115-10	GW	5/21/2015	526	61.2521	20.00	61.3160	61.3158	0.0002	0.0637	3185.00			
AZ	L767115-10DUP	GW	5/21/2015	504	59.9653	20.00	60.0289	60.0287	0.0002	0.0634	3170.00		0.47	
TN	L766702-01	DW	5/21/2015	100	59.0077	100.00	59.0194	59.0199	0.0005	0.0122	122.00			
TN	L766702-02	DW	5/21/2015	41	60.9403	100.00	60.9479	60.9491	0.0012	0.0088	88.00			
TN	L766809-01	WW	5/21/2015	53	66.4382	100.00	66.4667	66.4675	0.0008	0.0293	293.00			
TN	L766809-02	WW	5/21/2015	523	60.9790	75.00	61.0470	61.0429	0.0041	0.0639	852.00			
AZ	L767115-02	GW	5/21/2015	AX	59.4098	2.50	59.4502	59.4478	0.0024	0.0380	15200.00			
AZ	L767115-05	GW	5/21/2015	521	61.8422	2.50	61.8801	61.8781	0.0020	0.0359	14360.00			
AZ	L767115-07	GW	5/21/2015	5A	58.6643	2.50	58.7033	58.7027	0.0006	0.0384	15360.00			
AZ	L767115-09	GW	5/21/2015	528	61.7010	2.50	61.7563	61.7538	0.0025	0.0528	21120.00			
TN	L767211-01	WW	5/26/2015	20	61.1258	100.00	61.1415	61.1416	0.0001	0.0158	158.00			

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

Laboratory Bench Sheet

Total Dissolved Solids

5/30/2015 7:35 AM

Workgroup:

WG791766

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven (104 deg)	5/28/2015 1:51 PM	104	5/29/2015 5:45 AM	104	BLANK, LCS, LCSD, L766702-01, L766702-02, L766809-01, L766809-02, L767115-02, L767115-05, L767115-07, L767115-09, L767115-10, L767115-10DUP, L767211-01
2	Oven (180 deg)	5/29/2015 5:45 AM	180	5/29/2015 8:10 AM	180	BLANK, LCS, LCSD, L766702-01, L766702-02, L766809-01, L766809-02, L767115-02, L767115-05, L767115-07, L767115-09, L767115-10, L767115-10DUP, L767211-01
3	Oven (180 deg)	5/29/2015 10:36 AM	180	5/30/2015 2:25 AM	180	BLANK, LCS, LCSD, L766702-01, L766702-02, L766809-01, L766809-02, L767115-02, L767115-05, L767115-07, L767115-09, L767115-10, L767115-10DUP, L767211-01

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

Laboratory Bench Sheet

Total Dissolved Solids

5/30/2015 7:35 AM

Workgroup:

WG791766

Calculations

[H] Oven Wt. Diff. 180 Deg C = ABS(G - F)

[I] Residue Wt = ABS(H - A)

[J] TDS (mg/L) = (H - A) * 1000000 / B

[K] Percent Recovery = (Observed Result / True Value) * 100

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

ESC LAB SCIENCES WetChem Prep

Thurs

Hello, Josh Roberts Log off

WG791766 Remove All Samples .CSV (/Home /DownloadCSV?Length=4) ■=Hold ■=EDD/QC ■=RX,R1,R2 ■=R3,R4,NU ■=EX Status Cha

Sampnum	Matrix	Product	State	Status	HoldDate	DueDate	Pri
1. L766702-01	DW	TDS 100	TN	WG	05/28/15	06/03/15 171.5	SF
PH not required.							
2. L766702-02	DW	TDS 100	TN	WG	05/28/15	06/03/15 112.7	SF
PH not required.							
3. L766809-01 *	WW	TDS 100	TN	WG	05/28/15	06/08/15 393	R5
REPORT MDL/RDL							
4. L766809-02 *	WW	TDS 75	TN	WG	05/28/15	06/08/15 1115	R5
REPORT MDL/RDL							
5. L767115-02 *	GW	TDS 2.5	AZ	WG	05/28/15	06/01/15 20200	R5
EDD/QC4/DOD							
6. L767115-05 *	GW	TDS 2.5	AZ	WG	05/28/15	06/01/15 20200	R5
EDD/QC4/DOD							
7. L767115-07 *	GW	TDS 2.5	AZ	WG	05/28/15	06/01/15 23750	R5
EDD/QC4/DOD - MS/MSD sample							
8. L767115-09 *	GW	TDS 2.5	AZ	WG	05/28/15	06/01/15 27890	R5
EDD/QC4/DOD							
9. L767115-10 *	GW	TDS ~~2.5~~ 20	AZ	WG	05/28/15	06/01/15 ~~28680~~ 2865	R5
EDD/QC4/DOD							
10. L767211-01	WW	TDS 100	TN	WG	06/02/15	06/02/15 228.9	R5

Mercury by Method 7470A

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Est. 1970

Quality Control Summary
SDG: L767115

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

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791402**
Analysis Date:	5/26/2015 6:52:00 PM	Analyst:	542
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Workgroup: **WG791402**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-03 1x	05/21/2015	05/26/2015	05/26/2015
L767115-04 1x	05/21/2015	05/26/2015	05/26/2015
L767115-06 1x	05/21/2015	05/26/2015	05/26/2015
L767115-08 1x	05/21/2015	05/26/2015	05/26/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791426**
Analysis Date:	5/27/2015 10:12:00 AM	Analyst:	619
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Workgroup: **WG791426**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 1x	05/21/2015	05/26/2015	05/27/2015
L767115-05 1x	05/21/2015	05/26/2015	05/27/2015
L767115-07 1x	05/21/2015	05/26/2015	05/27/2015
L767115-09 1x	05/21/2015	05/26/2015	05/27/2015
L767115-10 1x	05/21/2015	05/26/2015	05/27/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791402**
Analysis Date:	5/26/2015 6:52:00 PM	Analyst:	542
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG791402	Blank WG791402	38	5/26/2015	6:03 PM
CVAA5	LCS WG791402	LCS WG791402	39	5/26/2015	6:05 PM
CVAA5	LCSD WG791402	LCSD WG791402	40	5/26/2015	6:07 PM
CVAA5	MS WG791402	MS WG791402	42	5/26/2015	6:12 PM
CVAA5	MSD WG791402	MSD WG791402	43	5/26/2015	6:14 PM
CVAA5	H-SS059-MW51-ND01	L767115-06	44	5/26/2015	6:16 PM
CVAA5	MS WG791402	MS WG791402	47	5/26/2015	6:23 PM
CVAA5	MSD WG791402	MSD WG791402	48	5/26/2015	6:25 PM
CVAA5	H-SS059-MW52-DD01	L767115-03	60	5/26/2015	6:52 PM
CVAA5	H-SS059-MW52-ND01	L767115-04	61	5/26/2015	6:54 PM
CVAA5	H-SS059-MW50-ND01	L767115-08	62	5/26/2015	6:56 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791426**
Analysis Date:	5/27/2015 10:12:00 AM	Analyst:	619
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG791426	Blank WG791426	32	5/27/2015	9:23 AM
CVAA5	LCS WG791426	LCS WG791426	35	5/27/2015	9:30 AM
CVAA5	LCSD WG791426	LCSD WG791426	36	5/27/2015	9:32 AM
CVAA5	H-SS059-MW51-NT01	L767115-07	37	5/27/2015	9:35 AM
CVAA5	MS WG791426	MS WG791426	38	5/27/2015	9:37 AM
CVAA5	MSD WG791426	MSD WG791426	39	5/27/2015	9:39 AM
CVAA5	H-SS059-MW52-DT01	L767115-02	54	5/27/2015	10:12 AM
CVAA5	H-SS059-MW52-NT01	L767115-05	55	5/27/2015	10:14 AM
CVAA5	H-SS059-MW50-NT01	L767115-09	56	5/27/2015	10:17 AM
CVAA5	H-TU506-MW05-NT02	L767115-10	59	5/27/2015	10:23 AM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791402**
Analysis Date:	5/26/2015 6:52:00 PM	Analyst:	542
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank

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

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	2.9979	100	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	3.0026	100	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	2.9979	100	3.0026	100	80 - 120		0	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791426**
Analysis Date:	5/27/2015 10:12:00 AM	Analyst:	619
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank

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

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	3.1358	105	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	3.0556	102	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	1	3	3.1358	105	3.0556	102	80 - 120		3	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791402**
Analysis Date:	5/26/2015 6:52:00 PM	Analyst:	542
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Matrix Spike / Matrix Spike Duplicate

L766887-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	<0.049	3.0996	103	3.1441	105	75 - 125		1	20	

Matrix Spike / Matrix Spike Duplicate

L767115-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	<0.049	2.5377	85	2.5775	86	75 - 125		2	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791426**
Analysis Date:	5/27/2015 10:12:00 AM	Analyst:	619
Instrument ID:	CVAA5	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	3	<0.049	2.2756	76	2.6129	87	75 - 125		14	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 5/26/2015 4:56 PM
Analysis Time: 1656
Data File: 052615CVAA5 WB

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	100 %	90-110

Standard Type: ICVLL
Analysis Date: 5/26/2015 5:01 PM
Analysis Time: 1701
Data File: 052615CVAA5 WB

Analyte	Conc.			
Mercury	0.0002	0.0002	95 %	70-130

Standard Type: CCV
Analysis Date: 5/26/2015 5:25 PM
Analysis Time: 1725
Data File: 052615CVAA5 WB

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

Standard Type: CCV
Analysis Date: 5/26/2015 5:52 PM
Analysis Time: 1752
Data File: 052615CVAA5 WB

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

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 5/26/2015 6:18 PM
Analysis Time: 1818
Data File: 052615CVAA5 WB

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	104 %	90-110

Standard Type: CCV
Analysis Date: 5/26/2015 6:45 PM
Analysis Time: 1845
Data File: 052615CVAA5 WB

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

Standard Type: CCV
Analysis Date: 5/26/2015 7:12 PM
Analysis Time: 1912
Data File: 052615CVAA5 WB

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

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 5/27/2015 8:30 AM
Analysis Time: 0830
Data File: 052715CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0032	0.003	105 %	90-110

Standard Type: ICVLL
Analysis Date: 5/27/2015 8:35 AM
Analysis Time: 0835
Data File: 052715CVAA5 W

Analyte	Conc.			
Mercury	0.0002	0.0002	85 %	70-130

Standard Type: CCV
Analysis Date: 5/27/2015 8:59 AM
Analysis Time: 0859
Data File: 052715CVAA5 W

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

Standard Type: CCV
Analysis Date: 5/27/2015 9:26 AM
Analysis Time: 0926
Data File: 052715CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	104 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 5/27/2015 9:52 AM
Analysis Time: 0952
Data File: 052715CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	106 %	90-110

Standard Type: CCV
Analysis Date: 5/27/2015 10:19 AM
Analysis Time: 1019
Data File: 052715CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	104 %	90-110

Standard Type: CCV
Analysis Date: 5/27/2015 10:45 AM
Analysis Time: 1045
Data File: 052715CVAA5 W

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

Standard Type: CCV
Analysis Date: 5/27/2015 11:12 AM
Analysis Time: 1112
Data File: 052715CVAA5 W

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

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 5/27/2015 11:56 AM
Analysis Time: 1156
Data File: 052715CVAA5 W

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

Standard Type: CCV
Analysis Date: 5/27/2015 12:03 PM
Analysis Time: 1203
Data File: 052715CVAA5 W

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

Standard Type: CCVLL
Analysis Date: 5/27/2015 12:14 PM
Analysis Time: 1214
Data File: 052715CVAA5 W

Analyte	Conc.			
Mercury	0.0002	0.0002	96 %	70-130

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 5/26/2015 4:59 PM
Analysis Time: 1659
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

Standard Type: CCB
Analysis Date: 5/26/2015 5:28 PM
Analysis Time: 1728
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

Standard Type: CCB
Analysis Date: 5/26/2015 5:54 PM
Analysis Time: 1754
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

Standard Type: CCB
Analysis Date: 5/26/2015 6:21 PM
Analysis Time: 1821
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

*** - 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: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 5/26/2015 6:47 PM
Analysis Time: 1847
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

Standard Type: CCB
Analysis Date: 5/26/2015 7:14 PM
Analysis Time: 1914
Data File: 052615CVAA5 WB

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052615CVAA5

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 5/27/2015 8:33 AM
Analysis Time: 0833
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 9:01 AM
Analysis Time: 0901
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 9:28 AM
Analysis Time: 0928
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 9:54 AM
Analysis Time: 0954
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 10:21 AM
Analysis Time: 1021
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 10:48 AM
Analysis Time: 1048
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 11:14 AM
Analysis Time: 1114
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 11:58 AM
Analysis Time: 1158
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

*** - calibrated by linear regression*

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

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 5/27/2015 12:05 PM
Analysis Time: 1205
Data File: 052715CVAA5 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	052715CVAA5

*** - calibrated by linear regression*

Raw Data

Type	Sample ID	Extended II	Mean	SD	RSD	Stat Units	Wt.	Vol.
S	CALBLK		48	3	6.485048	Intensity	1	1
S	Std 0.2		1267	15	1.181265	Intensity	1	1
S	Std 0.4		2590	30	1.141881	Intensity	1	1
S	Std 1.0		6386	72	1.131013	Intensity	1	1
S	Std 2.0		12619	113	0.891582	Intensity	1	1
S	Std 5.0		33384	412	1.23481	Intensity	1	1
S	Std 10.0		65512	264	0.403545	Intensity	1	1
C	ICV		99.9% 2.99	0.033923	1.132172	Concen	1	1
C	ICB		-0.04063	0.000625	-1.53776	Concen	1	1
C	ICVLL		94.5% 0.18	0.001863	0.985446	Concen	1	1
U	BLANK WG791401		0.010907	0.000072	0.656977	Concen	1	1
U	LCS WG791401		2.960747	0.023963	0.809366	Concen	1	1
U	LCSD WG791401		2.966928	0.023986	0.808431	Concen	1	1
U	L766887-01 WG79140		-0.02568	0.000215	-0.83724	Concen	1	1
U	MS L766887-01 WG79		3.019372	0.032833	1.087403	Concen	1	1
U	MSD L766887-01 WG7		3.094973	0.023699	0.765733	Concen	1	1
U	L766887-02 WG79140		-0.02618	0.000143	-0.54736	Concen	1	1
U	L766887-03 WG79140		0.011819	0.000143	1.21256	Concen	1	1
U	L766887-04 WG79140		0.01643	0.000248	1.510815	Concen	1	1
U	L767043-04 WG79140		0.105357	0.000569	0.539854	Concen	1	1
C	CCV		104.8% 2.6	0.019682	0.750876	Concen	1	1
C	CCB		-0.02152	0.000072	-0.33296	Concen	1	1
U	L767043-09 WG79140		0.101962	0.000502	0.491959	Concen	1	1
U	L767043-11 WG79140		0.226156	0.000727	0.321574	Concen	1	1
U	L767043-13 WG79140		0.247488	0.001738	0.702109	Concen	1	1
U	L767043-18 WG79140		0.065176	0.000517	0.792844	Concen	1	1
U	L767043-20 WG79140		0.081694	0.000143	0.175432	Concen	1	1
U	L767043-25 WG79140		0.018508	0.000072	0.387179	Concen	1	1
U	L767043-26 WG79140		0.019572	0.000358	1.830646	Concen	1	1
U	L767043-27 WG79140		0.021092	0.000758	3.595494	Concen	1	1
U	L767106-01 WG79140		4.751749	0.039072	0.822267	Concen	1	1
U	L767106-02 WG79140		1.546885	0.011451	0.740269	Concen	1	1
C	CCV		101.9% 2.5	0.029683	1.164755	Concen	1	1
C	CCB		-0.02254	0.000517	-2.29304	Concen	1	1
U	L767106-03 WG79140		1.113195	0.006313	0.567098	Concen	1	1
U	L767106-04 WG79140		0.066746	0.000448	0.670464	Concen	1	1
U	L767128-01 WG79140		0.013036	0.000258	1.982043	Concen	1	1
U	BLANK WG791402		0.019471	0	0	Concen	1	1
U	LCS WG791402		2.997939	0.025073	0.836351	Concen	1	1
U	LCSD WG791402		3.00255	0.022919	0.76333	Concen	1	1
U	L766887-01 WG79140		-0.02249	0.000541	-2.40616	Concen	1	1
U	MS L766887-01 WG79		3.099635	0.028794	0.928954	Concen	1	1
U	MSD L766887-01 WG7		3.144073	0.028867	0.918141	Concen	1	1
U	L767115-06 WG79140		-0.00799	0.000587	-7.33859	Concen	1	1
C	CCV		104.1% 2.6	0.022481	0.863619	Concen	1	1
C	CCB		-0.01195	0.000399	-3.34013	Concen	1	1

U	MS L767115-06 WG79	2.537698	0.029543	1.164165	Concen	1	1
U	MSD L767115-06 WG7	2.577525	0.023401	0.907896	Concen	1	1
U	L766816-01 WG79140	-0.03444	0.000573	-1.66442	Concen	1	1
U	L766816-02 WG79140	0.011161	0.000684	6.124894	Concen	1	1
U	L766887-02 WG79140	0.019369	0.000287	1.479842	Concen	1	1
U	L766887-03 WG79140	0.010654	0.000328	3.08224	Concen	1	1
U	L766887-04 WG79140	0.025196	0.000573	2.275206	Concen	1	1
U	L766918-01 WG79140	0.019167	0.000541	2.822677	Concen	1	1
U	L766918-03 WG79140	0.024639	0.000215	0.872503	Concen	1	1
U	L766918-05 WG79140	0.013796	0.000143	1.038867	Concen	1	1
C	CCV	104.9% 2.6	0.021284	0.81131	Concen	1	1
C	CCB	-0.01747	0	0	Concen	1	1
U	L766918-07 WG79140	0.027578	0.000684	2.478727	Concen	1	1
U	L767115-03 WG79140	0.013542	0.000124	0.916517	Concen	1	1
U	L767115-04 WG79140	-0.00171	0.000072	-4.1916	Concen	1	1
U	L767115-08 WG79140	0.023474	0.000684	2.912126	Concen	1	1
U	BLANK WG791403	0.013644	0.000312	2.289385	Concen	1	1
U	LCS WG791403	3.053271	0.042042	1.376945	Concen	1	1
U	LCSD WG791403	2.972299	0.022714	0.764204	Concen	1	1
U	L766919-13 WG79140	-0.02502	0.000143	-0.57286	Concen	1	1
U	MS L766919-13 WG79	2.995304	0.010391	0.34692	Concen	1	1
U	MSD L766919-13 WG7	2.963179	0.015208	0.513225	Concen	1	1
C	CCV	102.2% 2.5	0.020589	0.806057	Concen	1	1
C	CCB	-0.02091	0.00019	-0.90654	Concen	1	1
U	L766747-01 WG79140	0.047694	0.000379	0.795031	Concen	1	1
U	L766918-02 WG79140	0.021244	0.00019	0.892442	Concen	1	1
U	L766918-04 WG79140	0.029554	0.000072	0.242467	Concen	1	1
U	L766918-06 WG79140	0.01638	0.00019	1.157473	Concen	1	1
U	L766918-08 WG79140	0.031125	0.001395	4.482103	Concen	1	1
U	L766919-01 WG79140	0.018204	0.000625	3.431721	Concen	1	1
U	L766919-02 WG79140	0.020231	0.000248	1.227013	Concen	1	1
U	L766919-03 WG79140	0.01643	0.000124	0.755407	Concen	1	1
U	L766919-04 WG79140	0.01866	0.000436	2.335933	Concen	1	1
U	L766919-05 WG79140	0.017951	0.000448	2.493011	Concen	1	1
C	CCV	101.2% 2.5	0.008827	0.348891	Concen	1	1
C	CCB	-0.01382	0.000328	-2.37617	Concen	1	1
U	L766919-06 WG79140	0.012732	0.00019	1.489153	Concen	1	1
U	L766919-07 WG79140	0.015974	0.000248	1.553945	Concen	1	1
U	L766919-08 WG79140	0.014404	0.000072	0.497506	Concen	1	1
U	L766919-09 WG79140	0.015974	0.000124	0.776973	Concen	1	1
U	L766919-10 WG79140	0.015265	0.000312	2.046205	Concen	1	1
U	L766919-11 WG79140	0.016988	0.000358	2.109125	Concen	1	1
U	L766919-12 WG79140	0.020991	0.000248	1.182584	Concen	1	1
U	BLANK WG791404	0.014556	0.000312	2.14593	Concen	1	1
U	LCS WG791404	3.025504	0.015739	0.520224	Concen	1	1
U	LCSD WG791404	2.902019	0.018585	0.640416	Concen	1	1
C	CCV	100.8% 2.5	0.03275	1.299085	Concen	1	1

C	CCB	-0.02117	0.000684	-3.22946	Concen	1	1
U	L766809-02 WG79140	0.012732	0.000399	3.133799	Concen	1	1
U	MS L766809-02 WG79	2.784261	0.017703	0.635813	Concen	1	1
U	MSD L766809-02 WG7	2.755632	0.016363	0.593816	Concen	1	1
U	L766914-04 WG79140	-0.05441	0.000621	-1.14064	Concen	1	1
U	MS L766914-04 WG79	2.285713	0.026002	1.1376	Concen	1	1
U	MSD L766914-04 WG7	2.239096	0.025883	1.15598	Concen	1	1
U	L766520-13 100X	0.334996	0.006232	1.860401	Concen	1	1
U	L766520-14 2X	4.425228	0.058602	1.324263	Concen	1	1
U	L766520-15 2X	5.974785	0.103582	1.733659	Concen	1	1
U	L766809-01 WG79140	-0.10447	0.001003	-0.96031	Concen	1	1
C	CCV	100.8% 2.5	0.019367	0.768854	Concen	1	1
C	CCB	-0.02998	0.000845	-2.81768	Concen	1	1
U	L766826-01 WG79140	0.024994	0.000399	1.596318	Concen	1	1
U	L766826-02 WG79140	0.03153	0.000399	1.265387	Concen	1	1
U	L766826-03 WG79140	-0.00951	0.000312	-3.2835	Concen	1	1
U	L766826-04 WG79140	0.015214	0.000124	0.815788	Concen	1	1
U	L766826-05 WG79140	0.0141	0.000684	4.848236	Concen	1	1
U	L766914-03 WG79140	0.012022	0.000328	2.731485	Concen	1	1
U	BLANK WG791444	-0.00105	0.000937	-89.1703	Concen	1	1
U	LCS WG791444	2.894216	0.022403	0.774067	Concen	1	1
U	LCSD WG791444	2.987703	0.02944	0.985378	Concen	1	1
U	L766763-01 WG79144	-0.02441	0.000517	-2.11692	Concen	1	1
C	CCV	102.3% 2.5	0.02011	0.786349	Concen	1	1
C	CCB	-0.02365	0.00019	-0.80166	Concen	1	1
U	MS L766763-01 WG79	2.925784	0.025512	0.871962	Concen	1	1
U	MSD L766763-01 WG7	2.849727	0.033643	1.180582	Concen	1	1
U	L766722-01 WG79144	-0.02264	0.000496	-2.19322	Concen	1	1
U	L766723-01 WG79144	0.015366	0.000328	2.137019	Concen	1	1
U	BLANK WG791445	0.012428	0.000072	0.576616	Concen	1	1
U	LCS WG791445	3.028594	0.028917	0.954798	Concen	1	1
U	LCSD WG791445	2.967486	0.042146	1.420266	Concen	1	1
U	L766758-02 WG79144	-0.02385	0.000372	-1.56105	Concen	1	1
U	MS L766758-02 WG79	3.002094	0.02461	0.81977	Concen	1	1
U	MSD L766758-02 WG7	2.942201	0.042553	1.446285	Concen	1	1
C	CCV	100.5% 2.5	0.018792	0.747948	Concen	1	1
C	CCB	-0.01853	0.000496	-2.67895	Concen	1	1
U	L766200-01 WG79144	0.012681	0.000143	1.130192	Concen	1	1
U	L766218-01 WG79144	0.015164	0.000612	4.037631	Concen	1	1
U	L766303-01 WG79144	0.018103	0.00086	4.75019	Concen	1	1
U	L766437-13 WG79144	0.015569	0.000143	0.92053	Concen	1	1
U	L766437-14 WG79144	0.016735	0.000541	3.232924	Concen	1	1
U	L766437-15 WG79144	0.016633	0.000502	3.015741	Concen	1	1
U	L766437-16 WG79144	0.017748	0.000072	0.40376	Concen	1	1
U	L766437-17 WG79144	0.01714	0.000399	2.327792	Concen	1	1
U	L766437-18 WG79144	0.016633	0.000502	3.015741	Concen	1	1
U	L766717-01 WG79144	0.017039	0.000248	1.456899	Concen	1	1

C	CCV	98.4% 2.46	0.019052	0.77421	Concen	1	1
C	CCB	-0.01868	0.000328	-1.75754	Concen	1	1
U	L766724-01 WG79144	0.014657	0.000072	0.488906	Concen	1	1
U	L766952-01 WG79144	0.016684	0.000358	2.147559	Concen	1	1
U	L766520-14 5X	3.932203	0.032409	0.824198	Concen	1	1
U	L766520-15 5X	3.918978	0.033258	0.848643	Concen	1	1
C	CCV	92.5% 2.31	0.036322	1.571198	Concen	1	1
C	CCB	-0.0422	0.000748	-1.77304	Concen	1	1
C	non-qc	0.007107	0.000143	2.016549	Concen	1	1
U	L766520-14 20X	1.099362	0.008064	0.733497	Concen	1	1
U	L766520-15 20X	0.752826	0.002179	0.289499	Concen	1	1
C	ICVLL	91.0% 0.18	0.000612	0.336551	Concen	1	1
C	CCV	94.8% 2.36	0.028651	1.209005	Concen	1	1
C	CCB	-0.01651	0.000258	-1.56537	Concen	1	1
C	non-qc	0.012782	0.000248	1.94203	Concen	1	1
U	L766520-14 40X	0.528812	0.000808	0.152712	Concen	1	1
C	CCV	95.5% 2.38	0.024891	1.042851	Concen	1	1
C	CCB	-0.00946	0.00019	-2.00368	Concen	1	1
C	non-qc	0.013542	0.000248	1.833034	Concen	1	1

Type	Seq ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter
Std	14016	-	-	-	-	0	-	052615CVA
Std	14017	-	-	-	-	0.2	-	052615CVA
Std	14018	-	-	-	-	0.4	-	052615CVA
Std	14019	-	-	-	-	1	-	052615CVA
Std	14020	-	-	-	-	2	-	052615CVA
Std	14021	-	-	-	-	5	-	052615CVA
Std	14022	-	-	-	-	10	-	052615CVA
CK STND	14023	-	-	-	-	-	Linear	052615CVA
CK STND	14024	-	-	-	-	-	Linear	052615CVA
CK STND	14025	-	-	-	-	-	Linear	052615CVA
SMPL	14026	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14027	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14028	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14029	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14030	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14031	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14032	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14033	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14034	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14035	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14036	-	-	-	-	-	Linear	052615CVA
CK STND	14037	-	-	-	-	-	Linear	052615CVA
SMPL	14038	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14039	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14040	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14041	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14042	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14043	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14044	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14045	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14046	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14047	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14048	-	-	-	-	-	Linear	052615CVA
CK STND	14049	-	-	-	-	-	Linear	052615CVA
SMPL	14050	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14051	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14052	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14053	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14054	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14055	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14056	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14057	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14058	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14059	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14060	-	-	-	-	-	Linear	052615CVA
CK STND	14061	-	-	-	-	-	Linear	052615CVA

SMPL	14062	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14063	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14064	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14065	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14066	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14067	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14068	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14069	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14070	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14071	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14072	-	-	-	-	-	Linear	052615CVA
CK STND	14073	-	-	-	-	-	Linear	052615CVA
SMPL	14074	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14075	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14076	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14077	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14078	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14079	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14080	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14081	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14082	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14083	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14084	-	-	-	-	-	Linear	052615CVA
CK STND	14085	-	-	-	-	-	Linear	052615CVA
SMPL	14086	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14087	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14088	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14089	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14090	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14091	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14092	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14093	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14094	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14095	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14096	-	-	-	-	-	Linear	052615CVA
CK STND	14097	-	-	-	-	-	Linear	052615CVA
SMPL	14098	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14099	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14100	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14101	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14102	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14103	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14104	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14105	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14106	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14107	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14108	-	-	-	-	-	Linear	052615CVA

CK STND	14109	-	-	-	-	-	Linear	052615CVA
SMPL	14110	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14111	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14112	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14113	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14114	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14115	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14116	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14117	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14118	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14119	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14120	-	-	-	-	-	Linear	052615CVA
CK STND	14121	-	-	-	-	-	Linear	052615CVA
SMPL	14122	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14123	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14124	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14125	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14126	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14127	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14128	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14129	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14130	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14131	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14132	-	-	-	-	-	Linear	052615CVA
CK STND	14133	-	-	-	-	-	Linear	052615CVA
SMPL	14134	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14135	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14136	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14137	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14138	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14139	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14140	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14141	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14142	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14143	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14144	-	-	-	-	-	Linear	052615CVA
CK STND	14145	-	-	-	-	-	Linear	052615CVA
SMPL	14146	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14147	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14148	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14149	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14150	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14151	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14152	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14153	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14154	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14155	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA

CK STND	14156	-	-	-	-	-	Linear	052615CVA
CK STND	14157	-	-	-	-	-	Linear	052615CVA
SMPL	14158	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14159	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14160	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14161	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14162	-	-	-	-	-	Linear	052615CVA
CK STND	14163	-	-	-	-	-	Linear	052615CVA
CK STND	14164	-	-	-	-	-	Linear	052615CVA
SMPL	14165	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
SMPL	14166	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14167	-	-	-	-	-	Linear	052615CVA
CK STND	14168	-	-	-	-	-	Linear	052615CVA
CK STND	14169	-	-	-	-	-	Linear	052615CVA
CK STND	14170	-	-	-	-	-	Linear	052615CVA
SMPL	14171	0.00E+00	1.52E-04	1.20E-02	1.00E+00	-	Linear	052615CVA
CK STND	14172	-	-	-	-	-	Linear	052615CVA
CK STND	14173	-	-	-	-	-	Linear	052615CVA
CK STND	14174	-	-	-	-	-	Linear	052615CVA

Method	Units	UI	US	DL	Blank Sub	Date	Stats Data	
Water Tree	ppb	0	1	-	47.66667	5/26/2015 16:41	45	52
Water Tree	ppb	0	1	-	1267	5/26/2015 16:43	1247	1271
Water Tree	ppb	0	1	-	2590.333	5/26/2015 16:45	2552	2595
Water Tree	ppb	0	1	-	6386	5/26/2015 16:47	6291	6401
Water Tree	ppb	0	1	-	12618.67	5/26/2015 16:50	12476	12629
Water Tree	ppb	0	1	-	33384	5/26/2015 16:52	32859	33427
Water Tree	ppb	0	1	-	65511.67	5/26/2015 16:54	65168	65556
Water Tree	ppb	0	1	-	2.996267	5/26/2015 16:56	2.952994	2.999966
Water Tree	ppb	0	1	-	-0.04063	5/26/2015 16:59	-0.04073	-0.03981
Water Tree	ppb	0	1	-	0.189065	5/26/2015 17:01	0.186836	0.188964
Water Tree	ppb	0	1	0.000215	0.010907	5/26/2015 17:03	0.010958	0.010958
Water Tree	ppb	0	1	0.07189	2.960747	5/26/2015 17:05	2.930952	2.961659
Water Tree	ppb	0	1	0.071957	2.966928	5/26/2015 17:08	2.936729	2.968651
Water Tree	ppb	0	1	0.000645	-0.02568	5/26/2015 17:10	-0.02553	-0.02553
Water Tree	ppb	0	1	0.098498	3.019372	5/26/2015 17:12	2.977772	3.022311
Water Tree	ppb	0	1	0.071098	3.094973	5/26/2015 17:14	3.064875	3.097253
Water Tree	ppb	0	1	0.00043	-0.02618	5/26/2015 17:17	-0.02629	-0.02629
Water Tree	ppb	0	1	0.00043	0.011819	5/26/2015 17:19	0.012022	0.011718
Water Tree	ppb	0	1	0.000745	0.01643	5/26/2015 17:21	0.016126	0.01643
Water Tree	ppb	0	1	0.001706	0.105357	5/26/2015 17:23	0.104749	0.105205
Water Tree	ppb	0	1	-	2.621203	5/26/2015 17:25	2.596678	2.622064
Water Tree	ppb	0	1	-	-0.02152	5/26/2015 17:28	-0.02142	-0.02157
Water Tree	ppb	0	1	0.001505	0.101962	5/26/2015 17:30	0.101405	0.101861
Water Tree	ppb	0	1	0.002182	0.226156	5/26/2015 17:32	0.225143	0.226511
Water Tree	ppb	0	1	0.005213	0.247488	5/26/2015 17:34	0.245056	0.2484
Water Tree	ppb	0	1	0.00155	0.065176	5/26/2015 17:36	0.064466	0.065378
Water Tree	ppb	0	1	0.00043	0.081694	5/26/2015 17:39	0.081492	0.081796
Water Tree	ppb	0	1	0.000215	0.018508	5/26/2015 17:41	0.018559	0.018407
Water Tree	ppb	0	1	0.001075	0.019572	5/26/2015 17:43	0.019319	0.019319
Water Tree	ppb	0	1	0.002275	0.021092	5/26/2015 17:45	0.021903	0.021295
Water Tree	ppb	0	1	0.117216	4.751749	5/26/2015 17:47	4.706602	4.746733
Water Tree	ppb	0	1	0.034353	1.546885	5/26/2015 17:50	1.531076	1.551749
Water Tree	ppb	0	1	-	2.548389	5/26/2015 17:52	2.51368	2.545298
Water Tree	ppb	0	1	-	-0.02254	5/26/2015 17:54	-0.02233	-0.02203
Water Tree	ppb	0	1	0.018939	1.113195	5/26/2015 17:56	1.104987	1.11426
Water Tree	ppb	0	1	0.001343	0.066746	5/26/2015 17:58	0.066138	0.066898
Water Tree	ppb	0	1	0.000775	0.013036	5/26/2015 18:01	0.01339	0.012782
Water Tree	ppb	0	1	0	0.019471	5/26/2015 18:03	0.019471	0.019471
Water Tree	ppb	0	1	0.07522	2.997939	5/26/2015 18:05	2.965611	3.001486
Water Tree	ppb	0	1	0.068758	3.00255	5/26/2015 18:07	2.971691	3.00939
Water Tree	ppb	0	1	0.001623	-0.02249	5/26/2015 18:10	-0.02172	-0.02294
Water Tree	ppb	0	1	0.086383	3.099635	5/26/2015 18:12	3.06229	3.104246
Water Tree	ppb	0	1	0.086601	3.144073	5/26/2015 18:14	3.108198	3.145137
Water Tree	ppb	0	1	0.00176	-0.00799	5/26/2015 18:16	-0.0088	-0.00774
Water Tree	ppb	0	1	-	2.603164	5/26/2015 18:18	2.574029	2.606711
Water Tree	ppb	0	1	-	-0.01195	5/26/2015 18:21	-0.01139	-0.0123

Water Tree	ppb	0	1	0.088629	2.537698	5/26/2015 18:23	2.501823	2.53709
Water Tree	ppb	0	1	0.070204	2.577525	5/26/2015 18:25	2.54621	2.583909
Water Tree	ppb	0	1	0.00172	-0.03444	5/26/2015 18:27	-0.03404	-0.03404
Water Tree	ppb	0	1	0.002051	0.011161	5/26/2015 18:30	0.01035	0.01111
Water Tree	ppb	0	1	0.00086	0.019369	5/26/2015 18:32	0.019167	0.019167
Water Tree	ppb	0	1	0.000985	0.010654	5/26/2015 18:34	0.01111	0.010502
Water Tree	ppb	0	1	0.00172	0.025196	5/26/2015 18:36	0.024791	0.024791
Water Tree	ppb	0	1	0.001623	0.019167	5/26/2015 18:39	0.019471	0.019623
Water Tree	ppb	0	1	0.000645	0.024639	5/26/2015 18:41	0.024335	0.024791
Water Tree	ppb	0	1	0.00043	0.013796	5/26/2015 18:43	0.013998	0.013694
Water Tree	ppb	0	1	-	2.623432	5/26/2015 18:45	2.595614	2.627385
Water Tree	ppb	0	1	-	-0.01747	5/26/2015 18:47	-0.01747	-0.01747
Water Tree	ppb	0	1	0.002051	0.027578	5/26/2015 18:50	0.026767	0.027527
Water Tree	ppb	0	1	0.000372	0.013542	5/26/2015 18:52	0.01339	0.013694
Water Tree	ppb	0	1	0.000215	-0.00171	5/26/2015 18:54	-0.00166	-0.00166
Water Tree	ppb	0	1	0.002051	0.023474	5/26/2015 18:56	0.022511	0.023879
Water Tree	ppb	0	1	0.000937	0.013644	5/26/2015 18:58	0.013238	0.013998
Water Tree	ppb	0	1	0.126126	3.053271	5/26/2015 19:00	3.000726	3.05545
Water Tree	ppb	0	1	0.068143	2.972299	5/26/2015 19:03	2.944329	2.972603
Water Tree	ppb	0	1	0.00043	-0.02502	5/26/2015 19:05	-0.02522	-0.02492
Water Tree	ppb	0	1	0.031174	2.995304	5/26/2015 19:07	2.981724	2.997229
Water Tree	ppb	0	1	0.045623	2.963179	5/26/2015 19:09	2.944785	2.962723
Water Tree	ppb	0	1	-	2.554267	5/26/2015 19:12	2.528121	2.556243
Water Tree	ppb	0	1	-	-0.02091	5/26/2015 19:14	-0.02066	-0.02096
Water Tree	ppb	0	1	0.001138	0.047694	5/26/2015 19:16	0.047289	0.047593
Water Tree	ppb	0	1	0.000569	0.021244	5/26/2015 19:18	0.021447	0.021295
Water Tree	ppb	0	1	0.000215	0.029554	5/26/2015 19:20	0.029503	0.029503
Water Tree	ppb	0	1	0.000569	0.01638	5/26/2015 19:23	0.016126	0.01643
Water Tree	ppb	0	1	0.004185	0.031125	5/26/2015 19:25	0.029656	0.03072
Water Tree	ppb	0	1	0.001874	0.018204	5/26/2015 19:27	0.019015	0.018103
Water Tree	ppb	0	1	0.000745	0.020231	5/26/2015 19:29	0.019927	0.020231
Water Tree	ppb	0	1	0.000372	0.01643	5/26/2015 19:31	0.016278	0.016582
Water Tree	ppb	0	1	0.001308	0.01866	5/26/2015 19:34	0.018103	0.018711
Water Tree	ppb	0	1	0.001343	0.017951	5/26/2015 19:36	0.017495	0.017799
Water Tree	ppb	0	1	-	2.529895	5/26/2015 19:38	2.519456	2.529185
Water Tree	ppb	0	1	-	-0.01382	5/26/2015 19:40	-0.01412	-0.01397
Water Tree	ppb	0	1	0.000569	0.012732	5/26/2015 19:43	0.012934	0.012782
Water Tree	ppb	0	1	0.000745	0.015974	5/26/2015 19:45	0.015974	0.016278
Water Tree	ppb	0	1	0.000215	0.014404	5/26/2015 19:47	0.014454	0.014454
Water Tree	ppb	0	1	0.000372	0.015974	5/26/2015 19:49	0.015974	0.016126
Water Tree	ppb	0	1	0.000937	0.015265	5/26/2015 19:51	0.01491	0.015214
Water Tree	ppb	0	1	0.001075	0.016988	5/26/2015 19:53	0.016735	0.016735
Water Tree	ppb	0	1	0.000745	0.020991	5/26/2015 19:56	0.020687	0.020991
Water Tree	ppb	0	1	0.000937	0.014556	5/26/2015 19:58	0.014606	0.01491
Water Tree	ppb	0	1	0.047218	3.025504	5/26/2015 20:00	3.00483	3.028696
Water Tree	ppb	0	1	0.055755	2.902019	5/26/2015 20:02	2.876076	2.911343
Water Tree	ppb	0	1	-	2.521027	5/26/2015 20:05	2.479173	2.524777

Water Tree	ppb	0	1	-	-0.02117	5/26/2015 20:07	-0.02036	-0.02112
Water Tree	ppb	0	1	0.001197	0.012732	5/26/2015 20:09	0.012174	0.012934
Water Tree	ppb	0	1	0.053108	2.784261	5/26/2015 20:11	2.762067	2.785325
Water Tree	ppb	0	1	0.04909	2.755632	5/26/2015 20:13	2.733945	2.759483
Water Tree	ppb	0	1	0.001862	-0.05441	5/26/2015 20:16	-0.05365	-0.05441
Water Tree	ppb	0	1	0.078007	2.285713	5/26/2015 20:18	2.252676	2.288246
Water Tree	ppb	0	1	0.07765	2.239096	5/26/2015 20:20	2.20616	2.241731
Water Tree	ppb	0	1	0.018697	0.334996	5/26/2015 20:22	0.326991	0.335807
Water Tree	ppb	0	1	0.175805	4.425228	5/26/2015 20:25	4.350742	4.431004
Water Tree	ppb	0	1	0.310747	5.974785	5/26/2015 20:27	6.095533	5.986237
Water Tree	ppb	0	1	0.00301	-0.10447	5/26/2015 20:29	-0.10336	-0.10427
Water Tree	ppb	0	1	-	2.519	5/26/2015 20:32	2.494222	2.521281
Water Tree	ppb	0	1	-	-0.02998	5/26/2015 20:34	-0.02917	-0.02963
Water Tree	ppb	0	1	0.001197	0.024994	5/26/2015 20:36	0.024639	0.025551
Water Tree	ppb	0	1	0.001197	0.03153	5/26/2015 20:38	0.032088	0.031328
Water Tree	ppb	0	1	0.000937	-0.00951	5/26/2015 20:41	-0.00911	-0.00956
Water Tree	ppb	0	1	0.000372	0.015214	5/26/2015 20:43	0.015062	0.015366
Water Tree	ppb	0	1	0.002051	0.0141	5/26/2015 20:45	0.01491	0.01415
Water Tree	ppb	0	1	0.000985	0.012022	5/26/2015 20:47	0.011566	0.012326
Water Tree	ppb	0	1	0.002811	-0.00105	5/26/2015 20:50	0.000165	-0.0012
Water Tree	ppb	0	1	0.067209	2.894216	5/26/2015 20:52	2.866803	2.894165
Water Tree	ppb	0	1	0.088321	2.987703	5/26/2015 20:54	2.947978	2.996773
Water Tree	ppb	0	1	0.00155	-0.02441	5/26/2015 20:56	-0.0237	-0.02461
Water Tree	ppb	0	1	-	2.557409	5/26/2015 20:58	2.532529	2.557915
Water Tree	ppb	0	1	-	-0.02365	5/26/2015 21:01	-0.02385	-0.0237
Water Tree	ppb	0	1	0.076535	2.925784	5/26/2015 21:03	2.894165	2.926544
Water Tree	ppb	0	1	0.10093	2.849727	5/26/2015 21:05	2.809039	2.848714
Water Tree	ppb	0	1	0.001489	-0.02264	5/26/2015 21:07	-0.02203	-0.02264
Water Tree	ppb	0	1	0.000985	0.015366	5/26/2015 21:10	0.01567	0.015518
Water Tree	ppb	0	1	0.000215	0.012428	5/26/2015 21:12	0.012478	0.012326
Water Tree	ppb	0	1	0.086751	3.028594	5/26/2015 21:14	2.991453	3.032344
Water Tree	ppb	0	1	0.126439	2.967486	5/26/2015 21:16	2.914231	2.970931
Water Tree	ppb	0	1	0.001117	-0.02385	5/26/2015 21:18	-0.0234	-0.02385
Water Tree	ppb	0	1	0.073831	3.002094	5/26/2015 21:21	2.970171	3.006046
Water Tree	ppb	0	1	0.127658	2.942201	5/26/2015 21:23	2.892949	2.936881
Water Tree	ppb	0	1	-	2.512515	5/26/2015 21:25	2.487686	2.51672
Water Tree	ppb	0	1	-	-0.01853	5/26/2015 21:27	-0.01853	-0.01914
Water Tree	ppb	0	1	0.00043	0.012681	5/26/2015 21:30	0.012782	0.012478
Water Tree	ppb	0	1	0.001837	0.015164	5/26/2015 21:32	0.015518	0.01567
Water Tree	ppb	0	1	0.00258	0.018103	5/26/2015 21:34	0.016887	0.018711
Water Tree	ppb	0	1	0.00043	0.015569	5/26/2015 21:36	0.01567	0.01567
Water Tree	ppb	0	1	0.001623	0.016735	5/26/2015 21:38	0.017191	0.017039
Water Tree	ppb	0	1	0.001505	0.016633	5/26/2015 21:41	0.017191	0.015974
Water Tree	ppb	0	1	0.000215	0.017748	5/26/2015 21:43	0.017647	0.017799
Water Tree	ppb	0	1	0.001197	0.01714	5/26/2015 21:45	0.017495	0.017343
Water Tree	ppb	0	1	0.001505	0.016633	5/26/2015 21:47	0.015974	0.017191
Water Tree	ppb	0	1	0.000745	0.017039	5/26/2015 21:50	0.016735	0.017039

Water Tree	ppb	0	1	-	2.460831	5/26/2015 21:52	2.437522	2.46078
Water Tree	ppb	0	1	-	-0.01868	5/26/2015 21:54	-0.01838	-0.01853
Water Tree	ppb	0	1	0.000215	0.014657	5/26/2015 21:56	0.014606	0.014758
Water Tree	ppb	0	1	0.001075	0.016684	5/26/2015 21:58	0.01643	0.01643
Water Tree	ppb	0	1	0.097227	3.932203	5/26/2015 22:01	3.889082	3.94031
Water Tree	ppb	0	1	0.099774	3.918978	5/26/2015 22:03	3.875705	3.924653
Water Tree	ppb	0	1	-	2.311758	5/26/2015 22:05	2.264229	2.318649
Water Tree	ppb	0	1	-	-0.0422	5/26/2015 22:07	-0.04133	-0.04209
Water Tree	ppb	0	1	-	0.007107	5/26/2015 22:10	0.007006	0.00731
Water Tree	ppb	0	1	0.024191	1.099362	5/26/2015 22:35	1.088874	1.10073
Water Tree	ppb	0	1	0.006538	0.752826	5/26/2015 22:37	0.750039	0.75308
Water Tree	ppb	0	1	-	0.181921	5/26/2015 22:40	0.181059	0.182275
Water Tree	ppb	0	1	-	2.369775	5/26/2015 22:42	2.33309	2.373221
Water Tree	ppb	0	1	-	-0.01651	5/26/2015 22:44	-0.0164	-0.01686
Water Tree	ppb	0	1	-	0.012782	5/26/2015 22:46	0.012782	0.012478
Water Tree	ppb	0	1	0.002423	0.528812	5/26/2015 22:52	0.527798	0.528862
Water Tree	ppb	0	1	-	2.386801	5/26/2015 22:54	2.352851	2.395719
Water Tree	ppb	0	1	-	-0.00946	5/26/2015 22:56	-0.00941	-0.00972
Water Tree	ppb	0	1	-	0.013542	5/26/2015 22:58	0.013846	0.013542

46
1283
2624
6466
12751
33866
65811
3.03584
-0.04133
0.191396
0.010806
2.989629
2.995405
-0.02598
3.058034
3.122791
-0.02598
0.011718
0.016735
0.106117
2.644866
-0.02157
0.102621
0.226815
0.249009
0.065682
0.081796
0.018559
0.020079
0.020079
4.801913
1.55783
2.58619
-0.02325
1.12034
0.067202
0.012934
0.019471
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3.026568
-0.02279
3.132368
3.178883
-0.00744
2.628753
-0.01215

2.574181
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0.01415
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2.918639
2.559131

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2.773468
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-0.00987
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2.891429
-0.02325
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0.012478
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-0.02431
3.030064
2.996773
2.533137
-0.01792
0.012782
0.014302
0.018711
0.015366
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0.016735
0.017343

2.48419
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0.017191
3.967217
3.956576
2.352395
-0.04316
0.007006
1.108483
0.75536
0.182427
2.403015
-0.01625
0.013086
0.529774
2.411832
-0.00926

Type	Sample ID	Extended II	Mean	SD	RSD	Stat Units	Wt.	Vol.
S	CALBLK		-85	3	-3.62251	Intensity	1	1
S	Std 0.2		1182	4	0.326356	Intensity	1	1
S	Std 0.4		2571	16	0.636299	Intensity	1	1
S	Std 1.0		6026	34	0.567228	Intensity	1	1
S	Std 2.0		12349	121	0.981831	Intensity	1	1
S	Std 5.0		30181	215	0.710936	Intensity	1	1
S	Std 10.0		59703	190	0.318089	Intensity	1	1
C	ICV		105.1% 3.1	0.020131	0.638615	Concen	1	1
C	ICB		-0.05608	0.000237	-0.42215	Concen	1	1
C	ICVLL		85.5% 0.17	0.001793	1.048802	Concen	1	1
U	BLANK WG791427		-0.02171	0.000285	-1.31079	Concen	1	1
U	LCS WG791427		3.094485	0.024169	0.781031	Concen	1	1
U	LCSD WG791427		3.134884	0.020812	0.663888	Concen	1	1
U	L767032-19 WG79142		-0.05128	0.000552	-1.0772	Concen	1	1
U	MS L767032-19 WG79		3.123556	0.039106	1.251958	Concen	1	1
U	MSD L767032-19 WG7		3.160439	0.032646	1.032961	Concen	1	1
U	L767032-01 WG79142		-0.05362	0.000079	-0.14716	Concen	1	1
U	L767032-02 WG79142		-0.01769	0.000158	-0.89224	Concen	1	1
U	L767032-03 WG79142		-0.01434	0.000079	-0.55027	Concen	1	1
U	L767032-04 WG79142		-0.01004	0.000854	-8.49816	Concen	1	1
C	CCV		105.0% 2.6	0.033213	1.265684	Concen	1	1
C	CCB		-0.04698	0.000316	-0.67183	Concen	1	1
U	L767032-05 WG79142		-0.01987	0.000079	-0.39725	Concen	1	1
U	L767032-06 WG79142		-0.01897	0.000316	-1.66376	Concen	1	1
U	L767032-07 WG79142		-0.0159	0.000473	-2.97725	Concen	1	1
U	L767032-08 WG79142		-0.01685	0.000517	-3.07069	Concen	1	1
U	L767032-09 WG79142		-0.00564	0.000344	-6.10312	Concen	1	1
U	L767032-10 WG79142		0.017632	0.000395	2.23771	Concen	1	1
U	L767032-16 WG79142		0.002064	0.000285	13.78273	Concen	1	1
U	L767032-17 WG79142		-0.01161	0.000395	-3.39948	Concen	1	1
U	L767032-18 WG79142		-0.01311	0.000285	-2.16976	Concen	1	1
U	BLANK WG791426		-0.01295	0.00048	-3.70783	Concen	1	1
C	CCV		103.7% 2.5	0.016675	0.643451	Concen	1	1
C	CCB		-0.04559	0.000209	-0.45797	Concen	1	1
U	LCS WG791426		3.135776	0.028548	0.910394	Concen	1	1
U	LCSD WG791426		3.055649	0.011326	0.370664	Concen	1	1
U	L767115-07 WG79142		-0.03242	0.000209	-0.644	Concen	1	1
U	MS L767115-07 WG79		2.275583	0.040169	1.765209	Concen	1	1
U	MSD L767115-07 WG7		2.612942	0.017838	0.682684	Concen	1	1
U	L766888-01 WG79142		-0.11723	0.00091	-0.77627	Concen	1	1
U	L766888-02 WG79142		-0.02734	0.000688	-2.51607	Concen	1	1
U	L766888-03 WG79142		-0.02472	0.000344	-1.3915	Concen	1	1
U	L766888-04 WG79142		-0.01987	0.000344	-1.73156	Concen	1	1
U	L767010-01 WG79142		-0.02332	0.000285	-1.21985	Concen	1	1
C	CCV		105.7% 2.6	0.02983	1.128878	Concen	1	1
C	CCB		-0.04905	0.000237	-0.48266	Concen	1	1

U	L767010-02 WG79142	-0.00921	0.00041	-4.4535	Concen	1	1
U	L767010-03 WG79142	0.169349	0.00124	0.732328	Concen	1	1
U	L767010-04 WG79142	-0.03878	0.000344	-0.88696	Concen	1	1
U	L767010-05 WG79142	0.334569	0.000701	0.209637	Concen	1	1
U	L767010-06 WG79142	-0.05284	0.00048	-0.90837	Concen	1	1
U	L767010-07 WG79142	-0.02494	0.000362	-1.44982	Concen	1	1
U	L767010-08 WG79142	-0.02243	0	0	Concen	1	1
U	L767115-02 WG79142	-0.02042	0.000493	-2.41302	Concen	1	1
U	L767115-05 WG79142	-0.00893	0.000569	-6.3736	Concen	1	1
U	L767115-09 WG79142	-0.0096	0.000646	-6.72997	Concen	1	1
C	CCV	104.0% 2.6	0.021703	0.834448	Concen	1	1
C	CCB	-0.04994	0.00091	-1.82228	Concen	1	1
U	L767115-10 WG79142	-0.01959	0.000137	-0.69785	Concen	1	1
U	BLANK WG791429	-0.01897	0.000344	-1.81304	Concen	1	1
U	LCS WG791429	3.00956	0.019994	0.664366	Concen	1	1
U	LCSD WG791429	2.994885	0.028878	0.964244	Concen	1	1
U	L766702-02 WG79142	-0.05424	0.00071	-1.30945	Concen	1	1
U	MS L766702-02 WG79	3.217521	0.02178	0.676917	Concen	1	1
U	MSD L766702-02 WG7	3.172715	0.030976	0.976337	Concen	1	1
U	L766702-01 WG79142	-0.05842	0.00041	-0.70186	Concen	1	1
U	BLANK WG791424	-0.02143	0.00041	-1.91364	Concen	1	1
U	LCS WG791424	3.138231	0.020373	0.649174	Concen	1	1
C	CCV	103.0% 2.5	0.021403	0.831413	Concen	1	1
C	CCB	-0.04804	0.000362	-0.7527	Concen	1	1
U	LCSD WG791424	3.192635	0.031579	0.989121	Concen	1	1
U	L766993-02 WG79142	-0.05094	0.000079	-0.1549	Concen	1	1
U	MS L766993-02 WG79	2.867161	0.018934	0.660384	Concen	1	1
U	MSD L766993-02 WG7	3.011345	0.035551	1.180575	Concen	1	1
U	L766844-02 WG79142	-0.04933	0.000344	-0.69733	Concen	1	1
U	L766993-01 WG79142	-0.01551	0.00048	-3.09431	Concen	1	1
U	BLANK WG791425	-0.01055	0.00041	-3.88799	Concen	1	1
U	LCS WG791425	3.089966	0.014505	0.469433	Concen	1	1
U	LCSD WG791425	3.032772	0.026831	0.88471	Concen	1	1
U	L767130-03 WG79142	-0.0861	0.00048	-0.55751	Concen	1	1
C	CCV	102.1% 2.5	0.004435	0.173774	Concen	1	1
C	CCB	-0.08141	0.00097	-1.1911	Concen	1	1
U	MS L767130-03 WG79	2.701104	0.029941	1.108472	Concen	1	1
U	MSD L767130-03 WG7	2.907894	0.026612	0.915154	Concen	1	1
U	L767127-01 WG79142	0.068521	0.00383	5.589923	Concen	1	1
U	L767127-02 WG79142	0.041179	0.002472	6.001995	Concen	1	1
U	L767127-03 WG79142	0.000725	0.000569	78.47228	Concen	1	1
U	L767127-04 WG79142	0.012945	0.000344	2.657124	Concen	1	1
U	L767127-05 WG79142	-0.00943	0.00091	-9.65035	Concen	1	1
U	L767127-06 WG79142	-0.02126	0.000273	-1.28581	Concen	1	1
U	L767127-07 WG79142	0.002957	0.000439	14.85782	Concen	1	1
U	L767130-01 WG79142	-0.00592	0.000789	-13.3411	Concen	1	1
C	CCV	(L)43.4% 1.	0.092377	8.521836	Concen	1	1

C	CCV	98.0% 2.44	0.018738	0.764882	Concen	1	1
C	CCB	-0.0582	0.000569	-0.97776	Concen	1	1
U	L767130-02 WG79142	-0.00876	0.000517	-5.9066	Concen	1	1
C	CCV	100.2% 2.5	0.000517	0.020662	Concen	1	1
C	CCB	-0.07282	0.000626	-0.86015	Concen	1	1
C	non-qc	-0.01875	0.000493	-2.62847	Concen	1	1
C	CCVLL	96.5% 0.19	0.001105	0.572557	Concen	1	1
C	CCV	104.3% 2.6	0.012176	0.467131	Concen	1	1
C	CCB	-0.07661	0.00048	-0.62653	Concen	1	1
C	non-qc	-0.02723	0.000079	-0.2898	Concen	1	1

Type	Seq ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter
Std	14494	-	-	-	-	0	-	052715CVA
Std	14495	-	-	-	-	0.2	-	052715CVA
Std	14496	-	-	-	-	0.4	-	052715CVA
Std	14497	-	-	-	-	1	-	052715CVA
Std	14498	-	-	-	-	2	-	052715CVA
Std	14499	-	-	-	-	5	-	052715CVA
Std	14500	-	-	-	-	10	-	052715CVA
CK STND	14501	-	-	-	-	-	Linear	052715CVA
CK STND	14502	-	-	-	-	-	Linear	052715CVA
CK STND	14503	-	-	-	-	-	Linear	052715CVA
SMPL	14504	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14505	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14506	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14507	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14508	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14509	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14510	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14511	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14512	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14513	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14514	-	-	-	-	-	Linear	052715CVA
CK STND	14515	-	-	-	-	-	Linear	052715CVA
SMPL	14516	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14517	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14518	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14519	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14520	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14521	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14522	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14523	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14524	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14525	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14526	-	-	-	-	-	Linear	052715CVA
CK STND	14527	-	-	-	-	-	Linear	052715CVA
SMPL	14528	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14529	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14530	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14531	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14532	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14533	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14534	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14535	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14536	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14537	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14538	-	-	-	-	-	Linear	052715CVA
CK STND	14539	-	-	-	-	-	Linear	052715CVA

SMPL	14540	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14541	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14542	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14543	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14544	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14545	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14546	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14547	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14548	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14549	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14550	-	-	-	-	-	Linear	052715CVA
CK STND	14551	-	-	-	-	-	Linear	052715CVA
SMPL	14552	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14553	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14554	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14555	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14556	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14557	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14558	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14559	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14560	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14561	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14562	-	-	-	-	-	Linear	052715CVA
CK STND	14563	-	-	-	-	-	Linear	052715CVA
SMPL	14564	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14565	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14566	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14567	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14568	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14569	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14570	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14571	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14572	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14573	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14574	-	-	-	-	-	Linear	052715CVA
CK STND	14575	-	-	-	-	-	Linear	052715CVA
SMPL	14576	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14577	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14578	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14579	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14580	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14581	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14582	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14583	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14584	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
SMPL	14585	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14586	-	-	-	-	-	Linear	052715CVA

CK STND	14587	-	-	-	-	-	Linear	052715CVA
CK STND	14588	-	-	-	-	-	Linear	052715CVA
SMPL	14589	0.00E+00	1.67E-04	-1.94E-02	1.00E+00	-	Linear	052715CVA
CK STND	14590	-	-	-	-	-	Linear	052715CVA
CK STND	14591	-	-	-	-	-	Linear	052715CVA
CK STND	14592	-	-	-	-	-	Linear	052715CVA
CK STND	14593	-	-	-	-	-	Linear	052715CVA
CK STND	14594	-	-	-	-	-	Linear	052715CVA
CK STND	14595	-	-	-	-	-	Linear	052715CVA
CK STND	14596	-	-	-	-	-	Linear	052715CVA

Method	Units	UI	US	DL	Blank Sub	Date	Stats Data	
Water Tree	ppb	0	1	-	-85.3333	########	-88	-87
Water Tree	ppb	0	1	-	1182.333	########	1177	1186
Water Tree	ppb	0	1	-	2570.667	########	2550	2572
Water Tree	ppb	0	1	-	6025.667	########	5981	6032
Water Tree	ppb	0	1	-	12349	########	12194	12363
Water Tree	ppb	0	1	-	30180.67	########	29892	30244
Water Tree	ppb	0	1	-	59702.67	########	59456	59734
Water Tree	ppb	0	1	-	3.152349	########	3.125119	3.158765
Water Tree	ppb	0	1	-	-0.05608	########	-0.05641	-0.05591
Water Tree	ppb	0	1	-	0.170911	########	0.168568	0.171246
Water Tree	ppb	0	1	0.000854	-0.02171	########	-0.02143	-0.02159
Water Tree	ppb	0	1	0.072507	3.094485	########	3.063015	3.09867
Water Tree	ppb	0	1	0.062436	3.134884	########	3.10771	3.138678
Water Tree	ppb	0	1	0.001657	-0.05128	########	-0.05089	-0.05089
Water Tree	ppb	0	1	0.117317	3.123556	########	3.0749	3.125119
Water Tree	ppb	0	1	0.097938	3.160439	########	3.11926	3.16295
Water Tree	ppb	0	1	0.000237	-0.05362	########	-0.05373	-0.05357
Water Tree	ppb	0	1	0.000473	-0.01769	########	-0.01758	-0.01758
Water Tree	ppb	0	1	0.000237	-0.01434	########	-0.0144	-0.0144
Water Tree	ppb	0	1	0.002561	-0.01004	########	-0.01088	-0.01038
Water Tree	ppb	0	1	-	2.624102	########	2.583425	2.624102
Water Tree	ppb	0	1	-	-0.04698	########	-0.04654	-0.04721
Water Tree	ppb	0	1	0.000237	-0.01987	########	-0.01992	-0.01975
Water Tree	ppb	0	1	0.000947	-0.01897	########	-0.01942	-0.01875
Water Tree	ppb	0	1	0.00142	-0.0159	########	-0.01657	-0.01557
Water Tree	ppb	0	1	0.001552	-0.01685	########	-0.01641	-0.01657
Water Tree	ppb	0	1	0.001032	-0.00564	########	-0.00603	-0.00569
Water Tree	ppb	0	1	0.001184	0.017632	########	0.017074	0.017911
Water Tree	ppb	0	1	0.000854	0.002064	########	0.001674	0.002176
Water Tree	ppb	0	1	0.001184	-0.01161	########	-0.01189	-0.01189
Water Tree	ppb	0	1	0.000854	-0.01311	########	-0.01272	-0.01323
Water Tree	ppb	0	1	0.00144	-0.01295	########	-0.01356	-0.01289
Water Tree	ppb	0	1	-	2.59146	########	2.571037	2.59146
Water Tree	ppb	0	1	-	-0.04559	########	-0.04587	-0.04553
Water Tree	ppb	0	1	0.085644	3.135776	########	3.099675	3.138176
Water Tree	ppb	0	1	0.033979	3.055649	########	3.042592	3.054143
Water Tree	ppb	0	1	0.000626	-0.03242	########	-0.03264	-0.03248
Water Tree	ppb	0	1	0.120506	2.275583	########	2.223858	2.281107
Water Tree	ppb	0	1	0.053514	2.612942	########	2.592297	2.61071
Water Tree	ppb	0	1	0.00273	-0.11723	########	-0.11651	-0.11668
Water Tree	ppb	0	1	0.002064	-0.02734	########	-0.02645	-0.02745
Water Tree	ppb	0	1	0.001032	-0.02472	########	-0.02511	-0.02478
Water Tree	ppb	0	1	0.001032	-0.01987	########	-0.01992	-0.02026
Water Tree	ppb	0	1	0.000854	-0.02332	########	-0.02344	-0.0236
Water Tree	ppb	0	1	-	2.64246	########	2.602843	2.649714
Water Tree	ppb	0	1	-	-0.04905	########	-0.04922	-0.04922

Water Tree	ppb	0	1	0.00123	-0.00921	########	-0.00871	-0.00971
Water Tree	ppb	0	1	0.003721	0.169349	########	0.167731	0.169572
Water Tree	ppb	0	1	0.001032	-0.03878	########	-0.03833	-0.03884
Water Tree	ppb	0	1	0.002104	0.334569	########	0.334792	0.335294
Water Tree	ppb	0	1	0.00144	-0.05284	########	-0.05223	-0.0534
Water Tree	ppb	0	1	0.001085	-0.02494	########	-0.02444	-0.02528
Water Tree	ppb	0	1	0	-0.02243	########	-0.02243	-0.02243
Water Tree	ppb	0	1	0.001478	-0.02042	########	-0.02093	-0.02059
Water Tree	ppb	0	1	0.001707	-0.00893	########	-0.00971	-0.00871
Water Tree	ppb	0	1	0.001938	-0.0096	########	-0.01021	-0.00988
Water Tree	ppb	0	1	-	2.600834	########	2.575222	2.598993
Water Tree	ppb	0	1	-	-0.04994	########	-0.04871	-0.05022
Water Tree	ppb	0	1	0.00041	-0.01959	########	-0.01959	-0.01942
Water Tree	ppb	0	1	0.001032	-0.01897	########	-0.01942	-0.01858
Water Tree	ppb	0	1	0.059983	3.00956	########	2.983167	3.013968
Water Tree	ppb	0	1	0.086634	2.994885	########	2.961405	2.991369
Water Tree	ppb	0	1	0.002131	-0.05424	########	-0.05474	-0.05474
Water Tree	ppb	0	1	0.06534	3.217521	########	3.189399	3.220702
Water Tree	ppb	0	1	0.092929	3.172715	########	3.131145	3.181531
Water Tree	ppb	0	1	0.00123	-0.05842	########	-0.05842	-0.05792
Water Tree	ppb	0	1	0.00123	-0.02143	########	-0.02093	-0.02143
Water Tree	ppb	0	1	0.061118	3.138231	########	3.112899	3.139013
Water Tree	ppb	0	1	-	2.57433	########	2.547602	2.57539
Water Tree	ppb	0	1	-	-0.04804	########	-0.04754	-0.04821
Water Tree	ppb	0	1	0.094737	3.192635	########	3.155585	3.189566
Water Tree	ppb	0	1	0.000237	-0.05094	########	-0.05106	-0.05089
Water Tree	ppb	0	1	0.056803	2.867161	########	2.845232	2.864818
Water Tree	ppb	0	1	0.106654	3.011345	########	2.967097	3.012796
Water Tree	ppb	0	1	0.001032	-0.04933	########	-0.04888	-0.04938
Water Tree	ppb	0	1	0.00144	-0.01551	########	-0.0149	-0.01557
Water Tree	ppb	0	1	0.00123	-0.01055	########	-0.01105	-0.01004
Water Tree	ppb	0	1	0.043516	3.089966	########	3.072724	3.088961
Water Tree	ppb	0	1	0.080494	3.032772	########	2.997395	3.038575
Water Tree	ppb	0	1	0.00144	-0.0861	########	-0.08604	-0.08554
Water Tree	ppb	0	1	-	2.552289	########	2.546263	2.556809
Water Tree	ppb	0	1	-	-0.08141	########	-0.08035	-0.08119
Water Tree	ppb	0	1	0.089823	2.701104	########	2.663942	2.702109
Water Tree	ppb	0	1	0.079835	2.907894	########	2.878879	2.901645
Water Tree	ppb	0	1	0.011491	0.068521	########	0.073319	0.068297
Water Tree	ppb	0	1	0.007415	0.041179	########	0.04436	0.040844
Water Tree	ppb	0	1	0.001707	0.000725	########	0.001506	0.000502
Water Tree	ppb	0	1	0.001032	0.012945	########	0.013391	0.012889
Water Tree	ppb	0	1	0.00273	-0.00943	########	-0.00871	-0.00887
Water Tree	ppb	0	1	0.00082	-0.02126	########	-0.02159	-0.02093
Water Tree	ppb	0	1	0.001318	0.002957	########	0.002343	0.00318
Water Tree	ppb	0	1	0.002367	-0.00592	########	-0.00536	-0.00536
Water Tree	ppb	0	1	-	1.084002	########	1.201067	1.075688

Water Tree	ppb	0	1	-	2.449843	########	2.428751	2.446495
Water Tree	ppb	0	1	-	-0.0582	########	-0.05742	-0.05842
Water Tree	ppb	0	1	0.001552	-0.00876	########	-0.00804	-0.00904
Water Tree	ppb	0	1	-	2.504358	########	2.505083	2.504079
Water Tree	ppb	0	1	-	-0.07282	########	-0.07265	-0.07366
Water Tree	ppb	0	1	-	-0.01875	########	-0.01808	-0.01925
Water Tree	ppb	0	1	-	0.192952	########	0.194179	0.193175
Water Tree	ppb	0	1	-	2.606525	########	2.590455	2.609204
Water Tree	ppb	0	1	-	-0.07661	########	-0.07717	-0.07667
Water Tree	ppb	0	1	-	-0.02723	########	-0.02729	-0.02712

-81
1184
2590
6064
12490
30406
59918
3.173161
-0.05591
0.17292
-0.0221
3.121771
3.158263
-0.05206
3.170651
3.199108
-0.05357
-0.01791
-0.01423
-0.00887
2.664779
-0.04721
-0.01992
-0.01875
-0.01557
-0.01758
-0.00519
0.017911
0.002343
-0.01105
-0.01339
-0.01239
2.611882
-0.04537
3.169479
3.070213
-0.03214
2.321785
2.63582
-0.11852
-0.02812
-0.02427
-0.01942
-0.02293
2.674823
-0.04871

-0.00921
0.170744
-0.03917
0.33362
-0.0529
-0.02511
-0.02243
-0.01975
-0.00837
-0.00871
2.628287
-0.05089
-0.01975
-0.01892
3.031544
3.031879
-0.05323
3.242463
3.205469
-0.05892
-0.02193
3.162783
2.599997
-0.04838
3.232754
-0.05089
2.891434
3.054143
-0.04972
-0.01607
-0.01055
3.108212
3.062345
-0.08671
2.553796
-0.08269
2.737262
2.943159
0.063945
0.038333
0.000167
0.012554
-0.01071
-0.02126
0.003348
-0.00703
0.97525

2.474282
-0.05876
-0.00921
2.503912
-0.07215
-0.01892
0.191501
2.619917
-0.076

Trace Metals by Method 6010B

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Est. 1970

Quality Control Summary
SDG: L767115

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

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791630**
Analysis Date:	5/29/2015	Analyst:	388
Instrument ID:	ICP12	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Workgroup: **WG791630**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 5x	05/21/2015	05/27/2015	05/29/2015
L767115-05 5x	05/21/2015	05/27/2015	05/29/2015
L767115-07 5x	05/21/2015	05/27/2015	05/29/2015
L767115-09 5x	05/21/2015	05/27/2015	05/29/2015
L767115-10 5x	05/21/2015	05/27/2015	05/29/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791807**
Analysis Date:	5/31/2015	Analyst:	447
Instrument ID:	ICP13	Prep Date:	5/27/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Workgroup: **WG791807**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-03 1x	05/21/2015	05/28/2015	05/31/2015
L767115-04 1x	05/21/2015	05/28/2015	05/31/2015
L767115-06 1x	05/21/2015	05/28/2015	05/31/2015
L767115-08 1x	05/21/2015	05/28/2015	05/31/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791630**
Analysis Date:	5/29/2015	Analyst:	388
Instrument ID:	ICP12	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	LCS WG791630	LCS WG791630	32	5/29/2015	9:58 AM
ICP12	LCSD WG791630	LCSD WG791630	33	5/29/2015	10:03 AM
ICP12	DUP WG791630	DUP WG791630	35	5/29/2015	10:12 AM
ICP12	MS WG791630	MS WG791630	36	5/29/2015	10:17 AM
ICP12	MSD WG791630	MSD WG791630	37	5/29/2015	10:21 AM
ICP12	Blank WG791630	Blank WG791630	45	5/29/2015	11:02 AM
ICP12	H-SS059-MW52-DT01	L767115-02	57	5/29/2015	11:57 AM
ICP12	H-SS059-MW52-NT01	L767115-05	58	5/29/2015	12:02 PM
ICP12	H-SS059-MW51-NT01	L767115-07	59	5/29/2015	12:06 PM
ICP12	MS WG791630	MS WG791630	60	5/29/2015	12:11 PM
ICP12	MSD WG791630	MSD WG791630	61	5/29/2015	12:16 PM
ICP12	H-SS059-MW50-NT01	L767115-09	62	5/29/2015	12:20 PM
ICP12	H-TU506-MW05-NT02	L767115-10	63	5/29/2015	12:25 PM
ICP12	Blank WG791630	Blank WG791630	17	5/31/2015	7:59 PM
ICP12	LCS WG791630	LCS WG791630	18	5/31/2015	8:04 PM
ICP12	LCSD WG791630	LCSD WG791630	19	5/31/2015	8:08 PM
ICP12	DUP WG791630	DUP WG791630	21	5/31/2015	8:17 PM
ICP12	MS WG791630	MS WG791630	22	5/31/2015	8:22 PM
ICP12	MSD WG791630	MSD WG791630	23	5/31/2015	8:26 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791807**
Analysis Date:	5/31/2015	Analyst:	447
Instrument ID:	ICP13	Prep Date:	5/27/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP13	Blank WG791807	Blank WG791807	35	5/31/2015	10:12 PM
ICP13	LCS WG791807	LCS WG791807	36	5/31/2015	10:17 PM
ICP13	LCSD WG791807	LCSD WG791807	37	5/31/2015	10:21 PM
ICP13	DUP WG791807	DUP WG791807	39	5/31/2015	10:30 PM
ICP13	MS WG791807	MS WG791807	40	5/31/2015	10:35 PM
ICP13	MSD WG791807	MSD WG791807	41	5/31/2015	10:40 PM
ICP13	H-SS059-MW52-DD01	L767115-03	51	5/31/2015	11:28 PM
ICP13	H-SS059-MW52-ND01	L767115-04	52	5/31/2015	11:33 PM
ICP13	H-SS059-MW50-ND01	L767115-08	53	5/31/2015	11:38 PM
ICP13	H-SS059-MW51-ND01	L767115-06	54	5/31/2015	11:43 PM
ICP13	MS WG791807	MS WG791807	55	5/31/2015	11:48 PM
ICP13	MSD WG791807	MSD WG791807	56	5/31/2015	11:53 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791630**
Analysis Date:	5/29/2015	Analyst:	388
Instrument ID:	ICP12	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 0.100	< 0.0350	
Boron	7440-42-8	< 0.200	< 0.0126	
Calcium	7440-70-2	< 1.00	< 0.0463	
Iron	7439-89-6	< 0.100	< 0.0141	
Magnesium	7439-95-4	< 1.00	0.0225	
Sodium	7440-23-5	< 1.00	< 0.0985	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791807**
Analysis Date:	5/31/2015	Analyst:	447
Instrument ID:	ICP13	Prep Date:	5/27/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum,Dissolved	7429-90-5	< 0.100	< 0.0350	
Boron,Dissolved	7440-42-8	< 0.200	< 0.0126	
Calcium,Dissolved	7440-70-2	< 1.00	< 0.0463	
Iron,Dissolved	7439-89-6	< 0.100	< 0.0141	
Lithium,Dissolved	7439-93-2	< 0.0500	< 0.00530	
Magnesium,Dissolved	7439-95-4	< 1.00	< 0.0111	
Potassium,Dissolved	7440-09-7	< 1.00	< 0.102	
Sodium,Dissolved	7440-23-5	< 1.00	0.396	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791630**
Analysis Date:	5/29/2015	Analyst:	388
Instrument ID:	ICP12	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	1.0840	108	80 - 120	
Boron	1	1	1.0032	100	80 - 120	
Calcium	1	10	9.6549	97	80 - 120	
Iron	1	1	0.9974	100	80 - 120	
Magnesium	1	10	10.230	102	80 - 120	
Sodium	1	10	9.2300	92	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	1.1851	119	80 - 120	
Boron	1	1	0.9977	100	80 - 120	
Calcium	1	10	9.7280	97	80 - 120	
Iron	1	1	1.0149	101	80 - 120	
Magnesium	1	10	10.284	103	80 - 120	
Sodium	1	10	9.3156	93	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum	1	1	1.0840	108	1.1851	119	80 - 120		9	20	
Boron	1	1	1.0032	100	0.9977	100	80 - 120		1	20	
Calcium	1	10	9.6549	97	9.7280	97	80 - 120		1	20	
Iron	1	1	0.9974	100	1.0149	101	80 - 120		2	20	
Magnesium	1	10	10.230	102	10.284	103	80 - 120		1	20	
Sodium	1	10	9.2300	92	9.3156	93	80 - 120		1	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791807**
Analysis Date:	5/31/2015	Analyst:	447
Instrument ID:	ICP13	Prep Date:	5/27/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0915	109	80 - 120	
Boron,Dissolved	1	1	1.0933	109	80 - 120	
Calcium,Dissolved	1	10	10.895	109	80 - 120	
Iron,Dissolved	1	1	1.0925	109	80 - 120	
Lithium,Dissolved	1	1	1.0777	108	80 - 120	
Magnesium,Dissolved	1	10	10.970	110	80 - 120	
Potassium,Dissolved	1	10	11.017	110	80 - 120	
Sodium,Dissolved	1	10	10.617	106	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0381	104	80 - 120	
Boron,Dissolved	1	1	1.0688	107	80 - 120	
Calcium,Dissolved	1	10	10.608	106	80 - 120	
Iron,Dissolved	1	1	1.0726	107	80 - 120	
Lithium,Dissolved	1	1	1.0458	105	80 - 120	
Magnesium,Dissolved	1	10	10.629	106	80 - 120	
Potassium,Dissolved	1	10	10.690	107	80 - 120	
Sodium,Dissolved	1	10	10.300	103	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	1.0915	109	1.0381	104	80 - 120		5	20	
Boron,Dissolved	1	1	1.0933	109	1.0688	107	80 - 120		2	20	
Calcium,Dissolved	1	10	10.895	109	10.608	106	80 - 120		3	20	
Iron,Dissolved	1	1	1.0925	109	1.0726	107	80 - 120		2	20	
Lithium,Dissolved	1	1	1.0777	108	1.0458	105	80 - 120		3	20	
Magnesium,Dissolved	1	10	10.970	110	10.629	106	80 - 120		3	20	
Potassium,Dissolved	1	10	11.017	110	10.690	107	80 - 120		3	20	
Sodium,Dissolved	1	10	10.617	106	10.300	103	80 - 120		3	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791630**
Analysis Date:	5/29/2015	Analyst:	388
Instrument ID:	ICP12	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09, -10		

Serial Dilution

L766887-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	50	1.187	7.1803	505	10	
Boron	50	0.2294	3.2596	1321	10	
Calcium	50	1038.5	1081.4	4	10	
Iron	50	<0.141	<0.705		10	
Magnesium	50	970.02	966.23	0	10	
Sodium	50	4943.8	5018.7	2	10	

Matrix Spike / Matrix Spike Duplicate

L766887-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	10	0.1	1.187	1.9157	73	0.9513	0	75 - 125	J6	67	20	J3
Boron	10	0.1	0.2294	1.1916	96	1.2284	100	75 - 125		3	20	
Calcium	10	1	1038.5	1048.2	98	1037.5	0	75 - 125	V	1	20	
Iron	10	0.1	<0.141	0.9964	93	0.9225	86	75 - 125		8	20	
Magnesium	10	1	970.02	976.80	68	965.65	0	75 - 125	V	1	20	
Sodium	10	1	4943.8	4967.3	235	4965.3	214	75 - 125	V	0	20	

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	0.2	0.4093	1.1719	76	1.4191	101	75 - 125		19	20	
Boron	5	0.2	0.4166	1.2884	87	1.3139	90	75 - 125		2	20	
Calcium	5	2	867.31	831.53	0	821.83	0	75 - 125	V	1	20	
Iron	5	0.2	0.1158	1.0217	91	1.0197	90	75 - 125		0	20	
Magnesium	5	2	811.74	784.65	0	772.96	0	75 - 125	V	2	20	
Sodium	5	2	3680.9	3448.4	0	3406.4	0	75 - 125	V	1	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791807**
Analysis Date:	5/31/2015	Analyst:	447
Instrument ID:	ICP13	Prep Date:	5/27/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Serial Dilution

L766887-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum,Dissolved	50	<0.35	<1.75		10	
Boron,Dissolved	50	0.4519	0.7094	57	10	
Calcium,Dissolved	50	1124.1	1180.9	5	10	
Iron,Dissolved	50	<0.141	<0.705		10	
Lithium,Dissolved	50	0.2602	<0.265	5	10	
Magnesium,Dissolved	50	1018.3	1038.4	2	10	
Potassium,Dissolved	50	12.873	13.013	1	10	
Sodium,Dissolved	50	5223.6	5386.1	3	10	

Matrix Spike / Matrix Spike Duplicate

L766887-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	10	0.1	<0.35	1.2398	91	1.1608	83	75 - 125		7	20	
Boron,Dissolved	10	0.1	0.4519	1.3690	92	1.3458	89	75 - 125		2	20	
Calcium,Dissolved	10	1	1124.1	1124.4	3	1146.5	224	75 - 125	V	2	20	
Iron,Dissolved	10	0.1	<0.141	1.0650	101	1.1629	111	75 - 125		9	20	
Lithium,Dissolved	10	0.1	0.2602	1.2779	102	1.2818	102	75 - 125		0	20	
Magnesium,Dissolved	10	1	1018.3	1020.4	20	1048.7	304	75 - 125	V	3	20	
Potassium,Dissolved	10	1	12.873	22.912	100	23.375	105	75 - 125		2	20	
Sodium,Dissolved	10	1	5223.6	5161.8	0	5185.7	0	75 - 125	V	0	20	

Matrix Spike / Matrix Spike Duplicate

L767115-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	0.1083	1.1979	109	1.2401	113	75 - 125		3	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 5/29/2015 8:13 AM
Analysis Time: 0813
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.89	10	99 %	90-110
Boron	0.950	1	95 %	90-110
Calcium	9.37	10	94 %	90-110
Iron	9.34	10	93 %	90-110
Magnesium	9.91	10	99 %	90-110
Sodium	9.19	10	92 %	90-110

Standard Type: ICVLL
Analysis Date: 5/29/2015 8:22 AM
Analysis Time: 0822
Data File: 052915ICP12

Analyte	Conc.
Aluminum	0.105
Boron	0.0482
Calcium	0.963
Iron	0.0993
Magnesium	1.02
Sodium	0.954

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 5/29/2015 9:31 AM
Analysis Time: 0931
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.62	10	96 %	90-110
Boron	1.87	2	93 %	90-110
Calcium	45.6	50	91 %	90-110
Iron	9.20	10	92 %	90-110
Magnesium	9.52	10	95 %	90-110
Sodium	46.7	50	93 %	90-110

Standard Type: CCV
Analysis Date: 5/29/2015 10:26 AM
Analysis Time: 1026
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	10.1	10	101 %	90-110
Boron	1.99	2	99 %	90-110
Calcium	48.3	50	97 %	90-110
Iron	10.00	10	100 %	90-110
Magnesium	9.91	10	99 %	90-110
Sodium	51.2	50	102 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 5/29/2015 10:41 AM
Analysis Time: 1041
Data File: 052915ICP12

Analyte	Conc.
Aluminum	0.154
Boron	0.0447
Calcium	0.991
Iron	0.106
Magnesium	0.959
Sodium	0.972

Standard Type: CCV
Analysis Date: 5/29/2015 11:48 AM
Analysis Time: 1148
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.95	10	100 %	90-110
Boron	1.96	2	98 %	90-110
Calcium	47.3	50	95 %	90-110
Iron	9.92	10	99 %	90-110
Magnesium	9.56	10	96 %	90-110
Sodium	49.7	50	99 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 5/29/2015 12:29 PM
Analysis Time: 1229
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.96	10	100 %	90-110
Boron	1.94	2	97 %	90-110
Calcium	47.1	50	94 %	90-110
Iron	9.86	10	99 %	90-110
Magnesium	9.51	10	95 %	90-110
Sodium	49.6	50	99 %	90-110

Standard Type: CCVLL
Analysis Date: 5/29/2015 12:38 PM
Analysis Time: 1238
Data File: 052915ICP12

Analyte	Conc.
Aluminum	0.111
Boron	0.0409
Calcium	1.00
Iron	0.111
Magnesium	0.953
Sodium	1.20

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type: ICV
Analysis Date: 5/31/2015 7:24 PM
Analysis Time: 1924
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	10.1	10	101 %	90-110
Boron	1.00	1	100 %	90-110
Calcium	10.2	10	102 %	90-110
Iron	10.1	10	101 %	90-110
Potassium	9.95	10	100 %	90-110
Lithium	0.989	1	99 %	90-110
Magnesium	9.97	10	100 %	90-110
Sodium	9.93	10	99 %	90-110

Standard Type: ICVLL
Analysis Date: 5/31/2015 8:01 PM
Analysis Time: 2001
Data File: 053115ICP13

Analyte	Conc.
Aluminum	0.111
Boron	0.0565
Calcium	1.03
Iron	0.103
Potassium	1.03
Lithium	0.0156
Magnesium	1.03
Sodium	1.02

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 5/31/2015 10:03 PM
Analysis Time: 2203
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.72	10	97 %	90-110
Boron	1.94	2	97 %	90-110
Calcium	53.5	50	107 %	90-110
Iron	9.93	10	99 %	90-110
Potassium	48.3	50	97 %	90-110
Lithium	1.41	1.5	94 %	90-110
Magnesium	9.80	10	98 %	90-110
Sodium	49.4	50	99 %	90-110

Standard Type: CCV
Analysis Date: 5/31/2015 10:59 PM
Analysis Time: 2259
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	10.0	10	100 %	90-110
Boron	1.97	2	98 %	90-110
Calcium	54.5	50	109 %	90-110
Iron	10.3	10	103 %	90-110
Potassium	48.0	50	96 %	90-110
Lithium	1.36	1.5	91 %	90-110
Magnesium	10.3	10	103 %	90-110
Sodium	49.3	50	99 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 5/31/2015 11:57 PM
Analysis Time: 2357
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.91	10	99 %	90-110
Boron	1.99	2	99 %	90-110
Calcium	54.4	50	109 %	90-110
Iron	10.3	10	103 %	90-110
Potassium	47.7	50	95 %	90-110
Lithium	1.37	1.5	91 %	90-110
Magnesium	10.2	10	102 %	90-110
Sodium	50.3	50	101 %	90-110

Standard Type: CCVLL
Analysis Date: 6/1/2015 12:06 AM
Analysis Time: 0006
Data File: 053115ICP13

Analyte	Conc.
Aluminum	0.130
Boron	0.0583
Calcium	1.17
Iron	0.115
Potassium	1.13
Lithium	0.0158
Magnesium	1.18
Sodium	1.44

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 5/29/2015 8:18 AM
Analysis Time: 0818
Data File: 052915ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	0.0470	052915ICP12
Boron	0.0126	< 0.0126	052915ICP12
Calcium	0.0463	< 0.0463	052915ICP12
Iron	0.0141	< 0.0141	052915ICP12
Magnesium	0.0111	0.0121	052915ICP12
Sodium	0.0985	< 0.0985	052915ICP12

Standard Type: CCB
Analysis Date: 5/29/2015 9:36 AM
Analysis Time: 0936
Data File: 052915ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	052915ICP12
Boron	0.0126	< 0.0126	052915ICP12
Calcium	0.0463	< 0.0463	052915ICP12
Iron	0.0141	< 0.0141	052915ICP12
Magnesium	0.0111	0.0127	052915ICP12
Sodium	0.0985	< 0.0985	052915ICP12

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 5/29/2015 10:30 AM
Analysis Time: 1030
Data File: 052915ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	052915ICP12
Boron	0.0126	< 0.0126	052915ICP12
Calcium	0.0463	< 0.0463	052915ICP12
Iron	0.0141	< 0.0141	052915ICP12
Magnesium	0.0111	< 0.0111	052915ICP12
Sodium	0.0985	< 0.0985	052915ICP12

Standard Type: CCB
Analysis Date: 5/29/2015 11:52 AM
Analysis Time: 1152
Data File: 052915ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	052915ICP12
Boron	0.0126	< 0.0126	052915ICP12
Calcium	0.0463	< 0.0463	052915ICP12
Iron	0.0141	< 0.0141	052915ICP12
Magnesium	0.0111	< 0.0111	052915ICP12
Sodium	0.0985	0.216	052915ICP12

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 5/29/2015 12:34 PM
Analysis Time: 1234
Data File: 052915ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	052915ICP12
Boron	0.0126	< 0.0126	052915ICP12
Calcium	0.0463	< 0.0463	052915ICP12
Iron	0.0141	< 0.0141	052915ICP12
Magnesium	0.0111	0.0268	052915ICP12
Sodium	0.0985	0.265	052915ICP12

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type: ICB
Analysis Date: 5/31/2015 7:56 PM
Analysis Time: 1956
Data File: 053115ICP13

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	053115ICP13
Boron	0.0126	< 0.0126	053115ICP13
Calcium	0.0463	< 0.0463	053115ICP13
Iron	0.0141	< 0.0141	053115ICP13
Potassium	0.1024	< 0.1024	053115ICP13
Lithium	0.0053	< 0.0053	053115ICP13
Magnesium	0.0111	0.0219	053115ICP13
Sodium	0.0985	< 0.0985	053115ICP13

Standard Type: CCB
Analysis Date: 5/31/2015 10:07 PM
Analysis Time: 2207
Data File: 053115ICP13

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	053115ICP13
Boron	0.0126	< 0.0126	053115ICP13
Calcium	0.0463	< 0.0463	053115ICP13
Iron	0.0141	< 0.0141	053115ICP13
Potassium	0.1024	< 0.1024	053115ICP13
Lithium	0.0053	< 0.0053	053115ICP13
Magnesium	0.0111	< 0.0111	053115ICP13
Sodium	0.0985	< 0.0985	053115ICP13

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 5/31/2015 11:03 PM
Analysis Time: 2303
Data File: 053115ICP13

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	053115ICP13
Boron	0.0126	< 0.0126	053115ICP13
Calcium	0.0463	< 0.0463	053115ICP13
Iron	0.0141	< 0.0141	053115ICP13
Potassium	0.1024	< 0.1024	053115ICP13
Lithium	0.0053	< 0.0053	053115ICP13
Magnesium	0.0111	< 0.0111	053115ICP13
Sodium	0.0985	< 0.0985	053115ICP13

Standard Type: CCB
Analysis Date: 6/1/2015 12:02 AM
Analysis Time: 0002
Data File: 053115ICP13

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	053115ICP13
Boron	0.0126	< 0.0126	053115ICP13
Calcium	0.0463	< 0.0463	053115ICP13
Iron	0.0141	< 0.0141	053115ICP13
Potassium	0.1024	0.112	053115ICP13
Lithium	0.0053	< 0.0053	053115ICP13
Magnesium	0.0111	0.0462	053115ICP13
Sodium	0.0985	0.645	053115ICP13

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 5/29/2015 8:27 AM
Analysis Time: 0827
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0000	0		80 - 120
ALUMINUM	483	500	97 %	80 - 120
ARSENIC	-0.0326	0		80 - 120
BORON	-0.0483	0		80 - 120
BARIUM	0.0006	0		80 - 120
BERYLLIUM	-0.0001	0		80 - 120
CALCIUM	491	500	98 %	80 - 120
CADMIUM	-0.0018	0		80 - 120
COBALT	0.0000	0		80 - 120
CHROMIUM	0.0015	0		80 - 120
COPPER	0.0104	0		80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.0234	0		80 - 120
LITHIUM	0.0074	0		80 - 120
MAGNESIUM	485	500	97 %	80 - 120
MANGANESE	-0.0090	0		80 - 120
MOLYBDENUM	-0.0057	0		80 - 120
SODIUM	0.0250	0		80 - 120
NICKEL	-0.0320	0		80 - 120
LEAD	-0.0349	0		80 - 120
SULFUR	-0.0284	0		80 - 120
ANTIMONY	-0.0236	0		80 - 120
SELENIUM	0.0391	0		80 - 120
SILICON	0.0003	0		80 - 120
TIN	0.0024	0		80 - 120
STRONTIUM	0.0058	0		80 - 120
TITANIUM	-0.0021	0		80 - 120
THALLIUM	-0.0021	0		80 - 120
VANADIUM	-0.0010	0		80 - 120
ZINC	0.0060	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 5/29/2015 8:31 AM
Analysis Time: 0831
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.09	1.00	109 %	80 - 120
ALUMINUM	484	500	97 %	80 - 120
ARSENIC	0.458	0.500	92 %	80 - 120
BORON	0.871	1.00	87 %	80 - 120
BARIUM	0.453	0.500	91 %	80 - 120
BERYLLIUM	0.463	0.500	93 %	80 - 120
CALCIUM	490	500	98 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.467	0.500	93 %	80 - 120
CHROMIUM	0.447	0.500	89 %	80 - 120
COPPER	0.482	0.500	96 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.0095	0		80 - 120
LITHIUM	0.0068	0		80 - 120
MAGNESIUM	485	500	97 %	80 - 120
MANGANESE	0.442	0.500	88 %	80 - 120
MOLYBDENUM	0.438	0.500	88 %	80 - 120
SODIUM	0.0149	0		80 - 120
NICKEL	0.896	1.00	90 %	80 - 120
LEAD	0.922	1.00	92 %	80 - 120
SULFUR	-0.0087	0		80 - 120
ANTIMONY	0.484	0.500	97 %	80 - 120
SELENIUM	0.540	0.500	108 %	80 - 120
SILICON	0.877	1.00	88 %	80 - 120
TIN	0.469	0.500	94 %	80 - 120
STRONTIUM	0.0058	0		80 - 120
TITANIUM	0.461	0.500	92 %	80 - 120
THALLIUM	0.464	0.500	93 %	80 - 120
VANADIUM	0.459	0.500	92 %	80 - 120
ZINC	0.858	1.00	86 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 5/29/2015 10:46 AM
Analysis Time: 1046
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0006	0		80 - 120
ALUMINUM	481	500	96 %	80 - 120
ARSENIC	-0.0261	0		80 - 120
BORON	-0.0487	0		80 - 120
BARIUM	0.0008	0		80 - 120
BERYLLIUM	-0.0001	0		80 - 120
CALCIUM	480	500	96 %	80 - 120
CADMIUM	-0.0016	0		80 - 120
COBALT	-0.0010	0		80 - 120
CHROMIUM	0.0018	0		80 - 120
COPPER	0.0135	0		80 - 120
IRON	193	200	97 %	80 - 120
POTASSIUM	-0.0099	0		80 - 120
LITHIUM	0.0067	0		80 - 120
MAGNESIUM	482	500	96 %	80 - 120
MANGANESE	-0.0080	0		80 - 120
MOLYBDENUM	-0.0054	0		80 - 120
SODIUM	0.107	0		80 - 120
NICKEL	-0.0311	0		80 - 120
LEAD	-0.0430	0		80 - 120
SULFUR	0.0008	0		80 - 120
ANTIMONY	-0.0021	0		80 - 120
SELENIUM	0.0404	0		80 - 120
SILICON	-0.0052	0		80 - 120
TIN	-0.0006	0		80 - 120
STRONTIUM	0.0061	0		80 - 120
TITANIUM	0.0025	0		80 - 120
THALLIUM	-0.0038	0		80 - 120
VANADIUM	0.0022	0		80 - 120
ZINC	0.0059	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 5/29/2015 10:50 AM
Analysis Time: 1050
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.08	1.00	108 %	80 - 120
ALUMINUM	496	500	99 %	80 - 120
ARSENIC	0.456	0.500	91 %	80 - 120
BORON	0.927	1.00	93 %	80 - 120
BARIUM	0.460	0.500	92 %	80 - 120
BERYLLIUM	0.482	0.500	96 %	80 - 120
CALCIUM	492	500	98 %	80 - 120
CADMIUM	1.05	1.00	105 %	80 - 120
COBALT	0.462	0.500	92 %	80 - 120
CHROMIUM	0.463	0.500	93 %	80 - 120
COPPER	0.517	0.500	103 %	80 - 120
IRON	200	200	100 %	80 - 120
POTASSIUM	0.0136	0		80 - 120
LITHIUM	0.0073	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	0.435	0.500	87 %	80 - 120
MOLYBDENUM	0.439	0.500	88 %	80 - 120
SODIUM	0.118	0		80 - 120
NICKEL	0.911	1.00	91 %	80 - 120
LEAD	0.940	1.00	94 %	80 - 120
SULFUR	-0.0116	0		80 - 120
ANTIMONY	0.491	0.500	98 %	80 - 120
SELENIUM	0.555	0.500	111 %	80 - 120
SILICON	0.872	1.00	87 %	80 - 120
TIN	0.485	0.500	97 %	80 - 120
STRONTIUM	0.0063	0		80 - 120
TITANIUM	0.475	0.500	95 %	80 - 120
THALLIUM	0.464	0.500	93 %	80 - 120
VANADIUM	0.484	0.500	97 %	80 - 120
ZINC	0.874	1.00	87 %	80 - 120

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 5/29/2015 12:43 PM
Analysis Time: 1243
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	499	500	100 %	80 - 120
ARSENIC	-0.0398	0		80 - 120
BORON	-0.0403	0		80 - 120
BARIUM	0.0008	0		80 - 120
BERYLLIUM	0.0003	0		80 - 120
CALCIUM	492	500	98 %	80 - 120
CADMIUM	-0.0018	0		80 - 120
COBALT	-0.0015	0		80 - 120
CHROMIUM	0.0015	0		80 - 120
COPPER	0.0087	0		80 - 120
IRON	197	200	99 %	80 - 120
POTASSIUM	-0.0075	0		80 - 120
LITHIUM	0.0063	0		80 - 120
MAGNESIUM	484	500	97 %	80 - 120
MANGANESE	-0.0081	0		80 - 120
MOLYBDENUM	-0.0065	0		80 - 120
SODIUM	0.328	0		80 - 120
NICKEL	-0.0333	0		80 - 120
LEAD	-0.0388	0		80 - 120
SULFUR	0.0393	0		80 - 120
ANTIMONY	-0.0157	0		80 - 120
SELENIUM	0.0455	0		80 - 120
SILICON	-0.0035	0		80 - 120
TIN	0.0013	0		80 - 120
STRONTIUM	0.0064	0		80 - 120
TITANIUM	-0.0002	0		80 - 120
THALLIUM	0.0007	0		80 - 120
VANADIUM	0.0046	0		80 - 120
ZINC	0.0060	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 5/29/2015 12:47 PM
Analysis Time: 1247
Data File: 052915ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.07	1.00	107 %	80 - 120
ALUMINUM	487	500	97 %	80 - 120
ARSENIC	0.471	0.500	94 %	80 - 120
BORON	0.920	1.00	92 %	80 - 120
BARIUM	0.461	0.500	92 %	80 - 120
BERYLLIUM	0.475	0.500	95 %	80 - 120
CALCIUM	481	500	96 %	80 - 120
CADMIUM	1.06	1.00	106 %	80 - 120
COBALT	0.451	0.500	90 %	80 - 120
CHROMIUM	0.446	0.500	89 %	80 - 120
COPPER	0.509	0.500	102 %	80 - 120
IRON	193	200	97 %	80 - 120
POTASSIUM	0.0225	0		80 - 120
LITHIUM	0.0065	0		80 - 120
MAGNESIUM	474	500	95 %	80 - 120
MANGANESE	0.419	0.500	84 %	80 - 120
MOLYBDENUM	0.438	0.500	88 %	80 - 120
SODIUM	0.236	0		80 - 120
NICKEL	0.882	1.00	88 %	80 - 120
LEAD	0.911	1.00	91 %	80 - 120
SULFUR	0.0236	0		80 - 120
ANTIMONY	0.495	0.500	99 %	80 - 120
SELENIUM	0.566	0.500	113 %	80 - 120
SILICON	0.855	1.00	85 %	80 - 120
TIN	0.469	0.500	94 %	80 - 120
STRONTIUM	0.0065	0		80 - 120
TITANIUM	0.469	0.500	94 %	80 - 120
THALLIUM	0.460	0.500	92 %	80 - 120
VANADIUM	0.461	0.500	92 %	80 - 120
ZINC	0.847	1.00	85 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 5/31/2015 8:05 PM
Analysis Time: 2005
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0019	0		80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	-0.0049	0		80 - 120
BORON	-0.0007	0		80 - 120
BARIUM	0.0044	0		80 - 120
BERYLLIUM	-0.0001	0		80 - 120
CALCIUM	511	500	102 %	80 - 120
CADMIUM	-0.0028	0		80 - 120
COBALT	0.0014	0		80 - 120
CHROMIUM	-0.0022	0		80 - 120
COPPER	0.0019	0		80 - 120
IRON	201	200	100 %	80 - 120
POTASSIUM	0.0161	0		80 - 120
LITHIUM	0.0170	0		80 - 120
MAGNESIUM	505	500	101 %	80 - 120
MANGANESE	-0.0233	0		80 - 120
MOLYBDENUM	-0.0012	0		80 - 120
SODIUM	0.0135	0		80 - 120
NICKEL	0.0059	0		80 - 120
LEAD	0.0853	0		80 - 120
SULFUR	-0.0042	0		80 - 120
ANTIMONY	0.0081	0		80 - 120
SELENIUM	0.0562	0		80 - 120
TIN	0.0015	0		80 - 120
STRONTIUM	0.0003	0		80 - 120
TITANIUM	-0.0057	0		80 - 120
THALLIUM	0.0004	0		80 - 120
VANADIUM	0.0046	0		80 - 120
ZINC	0.0076	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 5/31/2015 8:19 PM
Analysis Time: 2019
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.18	1.00	118 %	80 - 120
ALUMINUM	505	500	101 %	80 - 120
ARSENIC	0.511	0.500	102 %	80 - 120
BORON	0.968	1.00	97 %	80 - 120
BARIUM	0.491	0.500	98 %	80 - 120
BERYLLIUM	0.487	0.500	97 %	80 - 120
CALCIUM	516	500	103 %	80 - 120
CADMIUM	1.09	1.00	109 %	80 - 120
COBALT	0.516	0.500	103 %	80 - 120
CHROMIUM	0.460	0.500	92 %	80 - 120
COPPER	0.507	0.500	101 %	80 - 120
IRON	202	200	101 %	80 - 120
POTASSIUM	0.0212	0		80 - 120
LITHIUM	0.0172	0		80 - 120
MAGNESIUM	510	500	102 %	80 - 120
MANGANESE	0.446	0.500	89 %	80 - 120
MOLYBDENUM	0.453	0.500	91 %	80 - 120
SODIUM	0.0112	0		80 - 120
NICKEL	1.02	1.00	102 %	80 - 120
LEAD	1.10	1.00	110 %	80 - 120
SULFUR	-0.0047	0		80 - 120
ANTIMONY	0.534	0.500	107 %	80 - 120
SELENIUM	0.598	0.500	120 %	80 - 120
TIN	0.423	0.500	85 %	80 - 120
STRONTIUM	0.0003	0		80 - 120
TITANIUM	0.482	0.500	96 %	80 - 120
THALLIUM	0.490	0.500	98 %	80 - 120
VANADIUM	0.480	0.500	96 %	80 - 120
ZINC	0.900	1.00	90 %	80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 6/1/2015 8:10 AM
Analysis Time: 0810
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0022	0		80 - 120
ALUMINUM	520	500	104 %	80 - 120
ARSENIC	-0.0049	0		80 - 120
BORON	0.0092	0		80 - 120
BARIUM	0.0045	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	552	500	110 %	80 - 120
CADMIUM	-0.0031	0		80 - 120
COBALT	0.0012	0		80 - 120
CHROMIUM	-0.0014	0		80 - 120
COPPER	0.0010	0		80 - 120
IRON	221	200	110 %	80 - 120
POTASSIUM	0.0856	0		80 - 120
LITHIUM	0.0180	0		80 - 120
MAGNESIUM	557	500	111 %	80 - 120
MANGANESE	-0.0246	0		80 - 120
MOLYBDENUM	-0.0020	0		80 - 120
SODIUM	0.0396	0		80 - 120
NICKEL	0.0062	0		80 - 120
LEAD	0.0730	0		80 - 120
SULFUR	0.0080	0		80 - 120
ANTIMONY	0.0084	0		80 - 120
SELENIUM	0.0571	0		80 - 120
TIN	0.0022	0		80 - 120
STRONTIUM	-0.0001	0		80 - 120
TITANIUM	-0.0068	0		80 - 120
THALLIUM	0.0061	0		80 - 120
VANADIUM	0.0021	0		80 - 120
ZINC	0.0077	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 6/1/2015 8:14 AM
Analysis Time: 0814
Data File: 053115ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.22	1.00	122 %	80 - 120
ALUMINUM	518	500	104 %	80 - 120
ARSENIC	0.486	0.500	97 %	80 - 120
BORON	0.992	1.00	99 %	80 - 120
BARIUM	0.495	0.500	99 %	80 - 120
BERYLLIUM	0.513	0.500	103 %	80 - 120
CALCIUM	551	500	110 %	80 - 120
CADMIUM	1.07	1.00	107 %	80 - 120
COBALT	0.531	0.500	106 %	80 - 120
CHROMIUM	0.488	0.500	98 %	80 - 120
COPPER	0.517	0.500	103 %	80 - 120
IRON	221	200	110 %	80 - 120
POTASSIUM	0.0590	0		80 - 120
LITHIUM	0.0174	0		80 - 120
MAGNESIUM	556	500	111 %	80 - 120
MANGANESE	0.470	0.500	94 %	80 - 120
MOLYBDENUM	0.421	0.500	84 %	80 - 120
SODIUM	0.0457	0		80 - 120
NICKEL	1.05	1.00	105 %	80 - 120
LEAD	1.13	1.00	113 %	80 - 120
SULFUR	0.0023	0		80 - 120
ANTIMONY	0.529	0.500	106 %	80 - 120
SELENIUM	0.586	0.500	117 %	80 - 120
TIN	0.429	0.500	86 %	80 - 120
STRONTIUM	0.0000	0		80 - 120
TITANIUM	0.505	0.500	101 %	80 - 120
THALLIUM	0.500	0.500	100 %	80 - 120
VANADIUM	0.502	0.500	100 %	80 - 120
ZINC	0.939	1.00	94 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 052915ICP12

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	0737	X	X	X	X	X	X	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 15E05148	1	0742	X	X	X	X	X	X	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 15E06233	1	0746		X	X		X	X	X	X	X	X	X		X	X		X		X		X	X	X	X	X		X	X	X	X	X
STD2 15E06234	1	0751		X	X	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 15E05151	1	0755			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 15E05149	1	0759	X			X				X				X			X				X				X		X					
STD5 15E06231	1	0804	X							X				X			X				X				X		X					
STD6 15E05150	1	0809	X							X				X			X				X				X		X					
ICV	1	0813	X					X		X				X			X								X							
ICB	1	0818	X					X		X				X			X								X							
ICVLL	1	0822	X					X		X				X			X								X							
ICSA	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	X
ICSAB	1	0831	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	0931	X					X		X				X			X								X							
CCB	1	0936	X					X		X				X			X								X							
LCS WG791630	1	0958	X					X		X				X			X								X							
LCSD WG791630	1	1003	X					X		X				X			X								X							
L766887-01SD WG791630	50	1012	X					X		X				X			X								X							
L766887-01MS WG791630	10	1017	X					X		X				X			X								X							
L766887-01MSD WG791630	10	1021	X					X		X				X			X								X							
CCV	1	1026	X					X		X				X			X								X							
CCB	1	1030	X					X		X				X			X								X							
CCVLL	1	1041	X					X		X				X			X								X							
ICSA	1	1046	X	X	X	X	X	X	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	1050	X	X	X	X	X	X	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 WG791630	1	1102	X					X		X				X			X								X							
CCV	1	1148	X					X		X				X			X								X							
CCB	1	1152	X					X		X				X			X								X							
L767115-02 WG791630	5	1157	X																													
L767115-05 WG791630	5	1202	X																													
L767115-07 WG791630	5	1206	X					X		X				X			X								X							
L767115-07MS WG791630	5	1211	X					X		X				X			X								X							
L767115-07MSD WG791630	5	1216	X					X		X				X			X								X							
L767115-09 WG791630	5	1220	X																													
L767115-10 WG791630	5	1225	X																													
CCV	1	1229	X					X		X				X			X								X							
CCB	1	1234	X					X		X				X			X								X							
CCVLL	1	1238	X					X		X				X			X								X							
ICSA	1	1243	X	X	X	X	X	X	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	1247	X	X	X	X	X	X	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: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICP13 Method: ICP-AES Run Number: 053115ICP13

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	1819	X	X	X	X	X	X	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 15E05148	1	1823	X	X	X	X	X	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 15E06233	1	1828		X	X	X	X		X		X	X	X	X	X	X		X	X	X		X		X		X		X	X	X	X	X
STD3 15E06234	1	1832		X	X	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 15E05151	1	1837	X		X	X	X	X		X	X	X	X	X				X	X	X					X	X	X		X	X	X	X
STD5 15E05149	1	1841	X			X				X				X			X				X				X		X					
STD6 15E06231	1	1846	X							X				X			X				X				X		X					
STD7 15E05150	1	1851	X							X				X			X				X				X		X					
ICV	1	1924	X					X		X				X		X	X				X				X							
ICB	1	1956	X					X		X				X		X	X				X				X							
ICVLL	1	2001	X					X		X				X		X	X				X				X							
ICSA	1	2005	X	X	X	X	X	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	2019	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
CCV	1	2203	X					X		X				X		X	X				X				X							
CCB	1	2207	X					X		X				X		X	X				X				X							
BLANK WG791807	1	2212	X					X		X				X		X	X				X				X							
LCS WG791807	1	2217	X					X		X				X		X	X				X				X							
LCSD WG791807	1	2221	X					X		X				X		X	X				X				X							
L766887-01SD WG791807	50	2230	X					X		X				X		X	X				X				X							
L766887-01MS WG791807	10	2235	X					X		X				X		X	X				X				X							
L766887-01MSD WG791807	10	2240	X					X		X				X		X	X				X				X							
CCV	1	2259	X					X		X				X		X	X				X				X							
CCB	1	2303	X					X		X				X		X	X				X				X							
L767115-03 WG791807	1	2328	X																													
L767115-04 WG791807	1	2333	X																													
L767115-08 WG791807	1	2338	X																													
L767115-06 WG791807	1	2343	X					X		X				X		X	X				X				X							
L767115-06MS WG791807	1	2348	X					X		X				X		X	X				X				X							
L767115-06MSD WG791807	1	2353	X					X		X				X		X	X				X				X							
CCV	1	2357	X					X		X				X		X	X				X				X							
CCB	1	0002	X					X		X				X		X	X				X				X							
CCVLL	1	0006	X					X		X				X		X	X				X				X							
CCVLL	1	0805	X					X		X				X		X	X				X				X							
ICSA	1	0810	X	X	X	X	X	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	0814	X	X	X	X	X	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: 05/29/15 08:22 Standard ID: 15E05148
Sequence: 12

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	3995.135	101.4279	101.4279	0.2220450	101	60	140	3938.890	
N	INDIUM	%	1310.393	101.0256	101.0256	0.2027473	101	60	140	1297.089	
N	YTTRIUM	%	3065.817	106.8800	106.8800	1.163756	107	60	140	2868.467	
N	YTTRIUM	%	80894.56	101.9598	101.9598	0.4855981	102	60	140	79339.63	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.1051065	0.1051065	29.42849	105	50	150	0.10	0.9999673
Y	ANTIMONY	ppm	0.02437575	0.02437575	19.15500	122	50	150	0.02	0.9997133
Y	ARSENIC	ppm	0.01583880	0.01583880	43.95808	79	50	150	0.02	0.9993773
Y	BARIUM	ppm	0.005107330	0.005107330	7.287771	102	50	150	0.0050	0.9999840
Y	BERYLLIUM	ppm	0.001796172	0.001796172	5.360812	90	50	150	0.0020	0.9999152
Y	BORON	ppm	0.04815294	0.04815294	17.32118	96	50	150	0.05	0.9996920
Y	CADMIUM	ppm	0.005119180	0.005119180	6.123320	102	50	150	0.0050	0.9998345
Y	CALCIUM	ppm	0.9631097	0.9631097	0.4537881	96	50	150	1	0.9999882
Y	CHROMIUM	ppm	0.009203752	0.009203752	5.640385	92	50	150	0.01	0.9999396
Y	COBALT	ppm	0.009343654	0.009343654	1.829760	93	50	150	0.01	0.9994594
Y	COPPER	ppm	0.01817413	0.01817413	35.08658	91	50	150	0.02	0.9997753
Y	IRON	ppm	0.09925079	0.09925079	1.626296	99	50	150	0.10	0.9999854
Y	LEAD	ppm	0.002779343	0.002779343	56.11903	56	50	150	0.0050	0.9997954
Y	LITHIUM	ppm	0.01603166	0.01603166	0.2300650	107	50	150	0.0150	0.9999357
Y	MAGNESIUM	ppm	1.018327	1.018327	2.037301	102	50	150	1	0.9999908
Y	MANGANESE	ppm	0.01027653	0.01027653	1.771998	103	50	150	0.01	0.9999361
Y	MOLYBDENUM	ppm	0.005471636	0.005471636	4.327658	109	50	150	0.0050	0.9999423
Y	NICKEL	ppm	0.01893961	0.01893961	5.234446	95	50	150	0.02	0.9993937
Y	POTASSIUM	ppm	0.9332841	0.9332841	0.3890048	93	50	150	1	0.9999872
Y	SELENIUM	ppm	0.01051058	0.01051058	30.74101	53	50	150	0.02	0.9995845
Y	SILICON	ppm	0.04338026	0.04338026	1.803536	87	50	150	0.05	0.9991218
Y	SILVER	ppm	0.009952234	0.009952234	5.180065	100	50	150	0.01	0.9999716
Y	SODIUM	ppm	0.9537134	0.9537134	0.7287256	95	50	150	1	0.9999959
Y	STRONTIUM	ppm	0.01000725	0.01000725	1.521884	100	50	150	0.01	0.9998712
Y	SULFUR	ppm	0.9124359	0.9124359	1.016168	91	50	150	1	0.9999370
Y	THALLIUM	ppm	0.02014688	0.02014688	14.48992	101	50	150	0.02	0.9997281
Y	TIN	ppm	0.04685068	0.04685068	1.782559	94	50	150	0.05	0.9993442

Sample ID: ICVLL
Analysis Date: 05/29/15 08:22 Standard ID: 15E05148
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.05079484	0.05079484	0.9008110	102	50	150	0.05	0.9998482
Y	VANADIUM	ppm	0.02402533	0.02402533	13.80337	120	50	150	0.02	0.9998541
Y	ZINC	ppm	0.04957078	0.04957078	0.6733874	99	50	150	0.05	0.9998135

Sample ID: CCVLL
Analysis Date: 05/29/15 10:41 Standard ID: 15E05148
Sequence: 41

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	3985.217	101.1762	101.1762	0.1703754	101	60	140	3938.890	
N	INDIUM	%	1301.424	100.3342	100.3342	0.1499244	100	60	140	1297.089	
N	YTTRIUM	%	2916.117	101.6612	101.6612	0.3202700	102	60	140	2868.467	
N	YTTRIUM	%	83407.53	105.1272	105.1272	0.2908912	105	60	140	79339.63	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.1535410	0.1535410	22.58222	154	1	200	0.10	0.9999673
Y	ANTIMONY	ppm	0.01996274	0.01996274	14.94770	100	1	200	0.02	0.9997133
Y	ARSENIC	ppm	0.01760916	0.01760916	8.364271	88	1	200	0.02	0.9993773
Y	BARIUM	ppm	0.005163823	0.005163823	3.527028	103	1	200	0.0050	0.9999840
Y	BERYLLIUM	ppm	0.001986079	0.001986079	15.48047	99	1	200	0.0020	0.9999152
Y	BORON	ppm	0.04473994	0.04473994	14.87542	89	1	200	0.05	0.9996920
Y	CADMIUM	ppm	0.004849578	0.004849578	3.836110	97	1	200	0.0050	0.9998345
Y	CALCIUM	ppm	0.9908545	0.9908545	1.059757	99	1	200	1	0.9999882
Y	CHROMIUM	ppm	0.009954022	0.009954022	4.195019	100	1	200	0.01	0.9999396
Y	COBALT	ppm	0.009235425	0.009235425	1.416366	92	1	200	0.01	0.9994594
Y	COPPER	ppm	0.02874057	0.02874057	12.11469	144	1	200	0.02	0.9997753
Y	IRON	ppm	0.1056322	0.1056322	1.005119	106	1	200	0.10	0.9999854
Y	LEAD	ppm	0.004524155	0.004524155	67.59082	90	1	200	0.0050	0.9997954
Y	LITHIUM	ppm	0.01620579	0.01620579	8.365302	108	1	200	0.0150	0.9999357
Y	MAGNESIUM	ppm	0.9591762	0.9591762	2.098421	96	1	200	1	0.9999908
Y	MANGANESE	ppm	0.009807838	0.009807838	0.7384776	98	1	200	0.01	0.9999361
Y	MOLYBDENUM	ppm	0.005195564	0.005195564	8.782609	104	1	200	0.0050	0.9999423
Y	NICKEL	ppm	0.01903972	0.01903972	1.543107	95	1	200	0.02	0.9993937
Y	POTASSIUM	ppm	0.9197719	0.9197719	1.281473	92	1	200	1	0.9999872
Y	SELENIUM	ppm	0.01783701	0.01783701	29.90597	89	1	200	0.02	0.9995845
Y	SILICON	ppm	0.04206381	0.04206381	4.494011	84	1	200	0.05	0.9991218
Y	SILVER	ppm	0.009858282	0.009858282	5.759984	99	1	200	0.01	0.9999716
Y	SODIUM	ppm	0.9722943	0.9722943	0.5679238	97	1	200	1	0.9999959
Y	STRONTIUM	ppm	0.01076388	0.01076388	1.309321	108	1	200	0.01	0.9998712
N	SULFUR	ppm	0.9115833	0.9115833	0.8309169	91			1	0.9999370
Y	THALLIUM	ppm	0.02126010	0.02126010	9.226974	106	1	200	0.02	0.9997281
Y	TIN	ppm	0.04803954	0.04803954	4.639882	96	1	200	0.05	0.9993442

Sample ID: CCVLL
Analysis Date: 05/29/15 10:41 Standard ID: 15E05148
Sequence: 41

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.04999873	0.04999873	2.042808	100	1	200	0.05	0.9998482
Y	VANADIUM	ppm	0.02000122	0.02000122	5.866008	100	1	200	0.02	0.9998541
Y	ZINC	ppm	0.04970096	0.04970096	1.296363	99	1	200	0.05	0.9998135

Sample ID: CCVLL
Analysis Date: 05/29/15 12:38 Standard ID: 15E05148
Sequence: 66

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	3894.972	98.88501	98.88501	0.5365441	99	60	140	3938.890	
N	INDIUM	%	1293.651	99.73494	99.73494	0.2640988	100	60	140	1297.089	
N	YTTRIUM	%	3031.056	105.6681	105.6681	0.6726629	106	60	140	2868.467	
N	YTTRIUM	%	84624.91	106.6616	106.6616	0.3616462	107	60	140	79339.63	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.1108472	0.1108472	42.25988	111	1	200	0.10	0.9999673
Y	ANTIMONY	ppm	0.02006943	0.02006943	10.17044	100	1	200	0.02	0.9997133
Y	ARSENIC	ppm	0.02051255	0.02051255	26.30704	103	1	200	0.02	0.9993773
Y	BARIUM	ppm	0.005180232	0.005180232	4.250804	104	1	200	0.0050	0.9999840
Y	BERYLLIUM	ppm	0.002412850	0.002412850	2.211350	121	1	200	0.0020	0.9999152
Y	BORON	ppm	0.04087125	0.04087125	17.08545	82	1	200	0.05	0.9996920
Y	CADMIUM	ppm	0.005308716	0.005308716	3.592715	106	1	200	0.0050	0.9998345
Y	CALCIUM	ppm	1.000285	1.000285	0.6143830	100	1	200	1	0.9999882
Y	CHROMIUM	ppm	0.009776165	0.009776165	4.557219	98	1	200	0.01	0.9999396
Y	COBALT	ppm	0.009117157	0.009117157	6.483084	91	1	200	0.01	0.9994594
Y	COPPER	ppm	0.02450332	0.02450332	15.15379	123	1	200	0.02	0.9997753
Y	IRON	ppm	0.1110226	0.1110226	3.944354	111	1	200	0.10	0.9999854
Y	LEAD	ppm	0.003785459	0.003785459	26.85918	76	1	200	0.0050	0.9997954
Y	LITHIUM	ppm	0.01594911	0.01594911	4.961382	106	1	200	0.0150	0.9999357
Y	MAGNESIUM	ppm	0.9534537	0.9534537	4.603200	95	1	200	1	0.9999908
Y	MANGANESE	ppm	0.009611359	0.009611359	1.358655	96	1	200	0.01	0.9999361
Y	MOLYBDENUM	ppm	0.005156178	0.005156178	16.17824	103	1	200	0.0050	0.9999423
Y	NICKEL	ppm	0.01911293	0.01911293	1.623388	96	1	200	0.02	0.9993937
Y	POTASSIUM	ppm	0.9358841	0.9358841	2.504403	94	1	200	1	0.9999872
Y	SELENIUM	ppm	0.02181408	0.02181408	20.42505	109	1	200	0.02	0.9995845
Y	SILICON	ppm	0.04266228	0.04266228	2.352812	85	1	200	0.05	0.9991218
Y	SILVER	ppm	0.009551010	0.009551010	7.016117	96	1	200	0.01	0.9999716
Y	SODIUM	ppm	1.203362	1.203362	0.3296001	120	1	200	1	0.9999959
Y	STRONTIUM	ppm	0.01117295	0.01117295	1.214931	112	1	200	0.01	0.9998712
N	SULFUR	ppm	0.9566862	0.9566862	0.4961591	96			1	0.9999370
Y	THALLIUM	ppm	0.02450364	0.02450364	11.00558	123	1	200	0.02	0.9997281
Y	TIN	ppm	0.04579171	0.04579171	4.116453	92	1	200	0.05	0.9993442

Sample ID: CCVLL
Analysis Date: 05/29/15 12:38 Standard ID: 15E05148
Sequence: 66

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.05206759	0.05206759	2.192752	104	1	200	0.05	0.9998482
Y	VANADIUM	ppm	0.01892653	0.01892653	9.862263	95	1	200	0.02	0.9998541
Y	ZINC	ppm	0.04881101	0.04881101	0.2451814	98	1	200	0.05	0.9998135

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: 05/31/15 20:01 Standard ID: 15E05148
Sequence: 14

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	3038.971	101.2674	101.2674	0.6071883	101	60	140	3000.938	
N	INDIUM	%	1446.461	99.88353	99.88353	0.1595573	100	60	140	1448.148	
N	YTTRIUM	%	6142.463	101.9096	101.9096	0.4593763	102	60	140	6027.361	
N	YTTRIUM	%	83694.61	100.6012	100.6012	0.4580590	101	60	140	83194.48	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.1106965	0.1106965	23.39868	111	50	150	0.10	0.9999928	
Y	ANTIMONY	ppm	0.01887636	0.01887636	3.683020	94	50	150	0.02	0.9999509	
Y	ARSENIC	ppm	0.02194959	0.02194959	7.838089	110	50	150	0.02	0.9998663	
Y	BARIUM	ppm	0.005514944	0.005514944	3.323197	110	50	150	0.0050	0.9999293	
Y	BERYLLIUM	ppm	0.001966517	0.001966517	1.385792	98	50	150	0.0020	0.9999939	
Y	BORON	ppm	0.05645158	0.05645158	27.03720	113	50	150	0.05	0.9999706	
Y	CADMIUM	ppm	0.005215590	0.005215590	2.776813	104	50	150	0.0050	0.9999736	
Y	CALCIUM	ppm	1.033789	1.033789	1.205551	103	50	150	1	0.9999758	
Y	CHROMIUM	ppm	0.009707451	0.009707451	1.462165	97	50	150	0.01	0.9999968	
Y	COBALT	ppm	0.01021890	0.01021890	2.434877	102	50	150	0.01	0.9999194	
Y	COPPER	ppm	0.01912737	0.01912737	23.34125	96	50	150	0.02	0.9999956	
Y	IRON	ppm	0.1034228	0.1034228	4.867113	103	50	150	0.10	0.9999977	
Y	LEAD	ppm	0.005474145	0.005474145	25.90844	109	50	150	0.0050	0.9999189	
Y	LITHIUM	ppm	0.01559947	0.01559947	1.941103	104	50	150	0.0150	0.9999961	
Y	MAGNESIUM	ppm	1.029055	1.029055	2.360524	103	50	150	1	0.9999920	
Y	MANGANESE	ppm	0.01059266	0.01059266	0.3446282	106	50	150	0.01	0.9999686	
Y	MOLYBDENUM	ppm	0.004712165	0.004712165	10.18700	94	50	150	0.0050	0.9998749	
Y	NICKEL	ppm	0.02042077	0.02042077	3.085367	102	50	150	0.02	0.9998570	
Y	POTASSIUM	ppm	1.031370	1.031370	1.465101	103	50	150	1	0.9999799	
Y	SELENIUM	ppm	0.01536596	0.01536596	6.590147	77	50	150	0.02	0.9999809	
N	SILICON	ppm	0.04846289	0.04846289	0.09984175	97	50	150	0.05	0.9946133	NT
Y	SILVER	ppm	0.009545666	0.009545666	7.949638	95	50	150	0.01	0.9999422	
Y	SODIUM	ppm	1.018878	1.018878	0.4163285	102	50	150	1	0.9999910	
Y	STRONTIUM	ppm	0.01050097	0.01050097	0.8734359	105	50	150	0.01	0.9999682	
Y	SULFUR	ppm	0.9550137	0.9550137	0.3419492	96	50	150	1	0.9999410	
Y	THALLIUM	ppm	0.02268993	0.02268993	6.126957	113	50	150	0.02	0.9998482	
Y	TIN	ppm	0.05112008	0.05112008	1.627987	102	50	150	0.05	0.9998835	

Sample ID: ICVLL
Analysis Date: 05/31/15 20:01 Standard ID: 15E05148
Sequence: 14

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.05038476	0.05038476	0.6699255	101	50	150	0.05	0.9999874
Y	VANADIUM	ppm	0.01761865	0.01761865	7.695411	88	50	150	0.02	0.9999910
Y	ZINC	ppm	0.05293741	0.05293741	0.9796022	106	50	150	0.05	0.9999419

Sample ID: CCVLL
Analysis Date: 06/01/15 00:06 Standard ID: 15E05148
Sequence: 59

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	3273.988	109.0988	109.0988	0.2959487	109	60	140	3000.938	
N	INDIUM	%	1478.770	102.1146	102.1146	0.1514026	102	60	140	1448.148	
N	YTTRIUM	%	5613.099	93.12697	93.12697	0.5976597	93	60	140	6027.361	
N	YTTRIUM	%	83804.38	100.7331	100.7331	0.1466160	101	60	140	83194.48	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.1303310	0.1303310	24.76989	130	1	200	0.10	0.9999928	
Y	ANTIMONY	ppm	0.01795159	0.01795159	3.156507	90	1	200	0.02	0.9999509	
Y	ARSENIC	ppm	0.02324082	0.02324082	13.89635	116	1	200	0.02	0.9998663	
Y	BARIUM	ppm	0.005833823	0.005833823	1.277287	117	1	200	0.0050	0.9999293	
Y	BERYLLIUM	ppm	0.002091487	0.002091487	4.390458	105	1	200	0.0020	0.9999939	
Y	BORON	ppm	0.05826914	0.05826914	10.85289	117	1	200	0.05	0.9999706	
Y	CADMIUM	ppm	0.005098900	0.005098900	2.928457	102	1	200	0.0050	0.9999736	
Y	CALCIUM	ppm	1.165465	1.165465	0.9085638	117	1	200	1	0.9999758	
Y	CHROMIUM	ppm	0.01084682	0.01084682	6.683033	108	1	200	0.01	0.9999968	
Y	COBALT	ppm	0.01112649	0.01112649	3.606522	111	1	200	0.01	0.9999194	
Y	COPPER	ppm	0.01784541	0.01784541	23.95625	89	1	200	0.02	0.9999956	
Y	IRON	ppm	0.1145505	0.1145505	3.462700	115	1	200	0.10	0.9999977	
Y	LEAD	ppm	0.006893820	0.006893820	27.32336	138	1	200	0.0050	0.9999189	
Y	LITHIUM	ppm	0.01578755	0.01578755	2.272096	105	1	200	0.0150	0.9999961	
Y	MAGNESIUM	ppm	1.178180	1.178180	3.540703	118	1	200	1	0.9999920	
Y	MANGANESE	ppm	0.01179330	0.01179330	1.319749	118	1	200	0.01	0.9999686	
Y	MOLYBDENUM	ppm	0.004582645	0.004582645	9.018136	92	1	200	0.0050	0.9998749	
Y	NICKEL	ppm	0.02315312	0.02315312	1.627409	116	1	200	0.02	0.9998570	
Y	POTASSIUM	ppm	1.127428	1.127428	1.530673	113	1	200	1	0.9999799	
Y	SELENIUM	ppm	0.01612865	0.01612865	12.04358	81	1	200	0.02	0.9999809	
N	SILICON	ppm	0.05163953	0.05163953	1.158007	103	1	200	0.05	0.9946133	NT
Y	SILVER	ppm	0.01124167	0.01124167	3.934112	112	1	200	0.01	0.9999422	
Y	SODIUM	ppm	1.435937	1.435937	0.3179122	144	1	200	1	0.9999910	
Y	STRONTIUM	ppm	0.01065314	0.01065314	0.7204664	107	1	200	0.01	0.9999682	
N	SULFUR	ppm	0.9961694	0.9961694	0.2655769	100			1	0.9999410	
Y	THALLIUM	ppm	0.02242020	0.02242020	8.558986	112	1	200	0.02	0.9998482	
Y	TIN	ppm	0.05318632	0.05318632	2.173484	106	1	200	0.05	0.9998835	

Sample ID: CCVLL
Analysis Date: 06/01/15 00:06 Standard ID: 15E05148
Sequence: 59

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.05410067	0.05410067	1.500361	108	1	200	0.05	0.9999874
Y	VANADIUM	ppm	0.01824948	0.01824948	5.015444	91	1	200	0.02	0.9999910
Y	ZINC	ppm	0.05957946	0.05957946	0.4797604	119	1	200	0.05	0.9999419

Raw Data

3015A GW/SPLP ICP Metals Prep Benchsheet

Batch #: WG791630

Prep Start Date/Time: 05/27/15 12:54 **Analyst:** EL684 **Analyst Verified pH:** 684 EL **Leachate Fluid Type:** N/A **Vessel ESC Lot ID:** ESC31549 **Pipette ID:** F13412591 **Carousel ID:** 1 **Microwave ID:** MD1972

Dig. Start Date/Time: 5\27\15 1350 **Prep End Date/Time:** 05/27/15 13:53 **SOP:** 340704 **Method:** 3015

Nitric Acid: 15E19911 Amt. Used: 3 mL Exp. Date:01/19/20 **Hydrochloric Acid:** 15E13650 Amt. Used: 2 mL Exp. Date:11/06/19 **High Spike:** 15C10306 Amt. Used: 0.45 mL Exp. Date:09/10/15 **Sulfur Spike:** N/A Amt. Used: 0 mL Exp. Date:

Sample Number	Qualifiers	Initial Sample Vol (mL)	Final Sample Vol.	Sample Description	Intial pH	Sample Comments
BLANK		45	50	NANOPURE	7	
LCS		45	50	NANOPURE	7	
LCSD		45	50	NANOPURE	7	
MS(L766887-01)		45	50	CLEAR	2	
MS(L767115-07)		45	50	CLEAR	2	
MSD(L766887-01)		45	50	CLEAR	2	
MSD(L767115-07)		45	50	CLEAR	2	
1. L766725-01		45	50	CLEAR	2	EDD/QC4/DOD - Refer to L766731
2. L766725-02		45	50	CLEAR	2	EDD/QC4/DOD - Refer to L766731
3. L766887-01		45	50	CLEAR	2	EDD/QC4/DOD - MS/MSD sample - JCR
4. L766887-02		45	50	CLEAR	2	EDD/QC4/DOD
5. L766887-03		45	50	CLEAR	2	EDD/QC4/DOD
6. L766887-04		45	50	CLEAR	2	EDD/QC4/DOD
7. L766918-02		45	50	CLEAR	2	EDD/QC4/DOD
8. L766918-04		45	50	CLEAR	2	EDD/QC4/DOD
9. L766918-06		45	50	CLEAR	2	EDD/QC4/DOD
10. L766918-08		45	50	CLEAR	2	EDD/QC4/DOD
11. L767115-02		45	50	CLOUDY	2	EDD/QC4/DOD

12. L767115-05		45	50	CLOUDY	2	EDD/QC4/DOD
13. L767115-07		45	50	CLEAR	2	EDD/QC4/DOD - MS/MSD sample
14. L767115-09		45	50	CLEAR	2	EDD/QC4/DOD
15. L767115-10		45	50	CLEAR	2	EDD/QC4/DOD

Comments:

Reviewed By:JPD638 on 05/27/15 13:53:55

3015A GW/SPLP ICP Metals Prep Benchsheet

Batch #: WG791807

Prep Start Date/Time: 05/28/15 10:30 **Analyst:** BKB669 **Analyst Verified pH:** 669 **Leachate Fluid Type:** N/A **Vessel ESC Lot ID:** ESC31549 **Pipette ID:** F13412501 **Carousel ID:** 5 **Microwave ID:** MD9972

Dig. Start Date/Time: 05/28/15 10:40 AM **Prep End Date/Time:** 05/28/15 12:09 **SOP:** 340704 **Method:** 3015

Nitric Acid: 15E19911 Amt. Used: 3 mL Exp. Date:01/19/20 **Hydrochloric Acid:** 15E13650 Amt. Used: 2 mL Exp. Date:11/06/19 **High Spike:** 15C10306 Amt. Used: 0.45 mL Exp. Date:09/10/15 **Sulfur Spike:** N/A Amt. Used: 0.45 mL Exp. Date:

Sample Number	Qualifiers	Initial Sample Vol (mL)	Final Sample Vol.	Sample Description	Intial pH	Sample Comments
BLANK		45	50	Nanopure	N/A	
LCS		45	50	Nanopure	N/A	
LCSD		45	50	Nanopure	N/A	
MS(L766887-01)		45	50	Clear	2.0	
MS(L767115-06)		45	50	Clear	2.0	
MSD(L766887-01)		45	50	Clear	2.0	
MSD(L767115-06)		45	50	Clear	2.0	
1. L766887-01		45	50	Clear	2.0	EDD/QC4/DOD - MS/MSD sample - JCR
2. L766887-02		45	50	Clear	2.0	EDD/QC4/DOD
3. L766887-03		45	50	Clear	2.0	EDD/QC4/DOD
4. L766887-04		45	50	Clear	2.0	EDD/QC4/DOD
5. L766918-01		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
6. L766918-03		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
7. L766918-05		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
8. L766918-07		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
9. L767115-03		45	50	Cloudy	2.0	Field Filtered. EDD/QC4/DOD
10. L767115-04		45	50	Cloudy	2.0	Field Filtered. EDD/QC4/DOD
11. L767115-06		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD - MS/MSD sample

12. L767115-08		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD

Comments:

Reviewed By:BKB669 on 05/28/15 12:11:23

Basic sample report

6/1/2015 9:36:39 AM

LabBook 053115ICP13.imexp

carryover

Sample Type UNKNOWN Analysis Date 5/31/2015 6:03:12 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.008 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	-0.009 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cu 324.754 {104} (Radial)	0.001 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Al 308.215 {109} (Radial)	0.169 ppm
Fe 259.940 {130} (Radial)	0.103 ppm
Fe 271.441 {124} (Radial)	0.136 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.117 ppm
Ca 373.690 {90} (Radial)	0.140 ppm
Mg 279.079 {121} (Radial)	0.160 ppm
K 766.490 {44} (Radial)	0.139 ppm
Na 589.592 {57} (Radial)	0.066 ppm
Na 818.326 {41} (Radial)	0.240 ppm
Sb 206.833 {463} (Axial)	-0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	0.001 ppm
Ti 334.941 {101} (Radial)	0.002 ppm
Mo 202.030 {467} (Axial)	-0.002 ppm
B 249.678 {135} (Radial)	0.003 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sn 189.989 {477} (Axial)	-0.002 ppm
S 182.034 {485} (Axial)	0.003 ppm
In 230.606 {446} (Axial)	318.436 %
Y 360.073 {94} (Radial)	134.415 %
Y 360.073 {94} (Axial)	246.165 %
Y 224.306 {450} (Axial)	380.242 %

CALBLK

Sample Type BLK Analysis Date 5/31/2015 6:14:17 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Al 308.215 {109} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Na 818.326 {41} (Radial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
B 249.678 {135} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
In 230.606 {446} (Axial)	100.000 %
Y 360.073 {94} (Radial)	100.000 %
Y 360.073 {94} (Axial)	100.000 %
Y 224.306 {450} (Axial)	100.000 %

STD1 15E05148

Sample Type STD Analysis Date 5/31/2015 6:19:03 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.022 ppm
Ba 233.527 {445} (Axial)	0.006 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cr 267.716 {126} (Axial)	0.010 ppm
Pb 220.353 {453} (Axial)	0.005 ppm
Se 196.090 {472} (Axial)	0.018 ppm
Ag 328.068 {103} (Axial)	0.011 ppm
Cu 324.754 {104} (Radial)	0.017 ppm
Ni 231.604 {446} (Axial)	0.021 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Zn 206.200 {463} (Axial)	0.055 ppm
Al 308.215 {109} (Radial)	0.115 ppm
Fe 259.940 {130} (Radial)	0.102 ppm
Fe 271.441 {124} (Radial)	N/A
Li 670.784 {50} (Radial)	0.016 ppm
Ca 317.933 {106} (Radial)	1.032 ppm
Ca 373.690 {90} (Radial)	N/A
Mg 279.079 {121} (Radial)	1.008 ppm
K 766.490 {44} (Radial)	1.015 ppm
Na 589.592 {57} (Radial)	1.034 ppm
Na 818.326 {41} (Radial)	N/A
Sb 206.833 {463} (Axial)	0.018 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Tl 190.856 {477} (Axial)	0.022 ppm
Mn 257.610 {131} (Axial)	0.011 ppm
V 292.402 {115} (Radial)	0.020 ppm
Ti 334.941 {101} (Radial)	0.051 ppm
Mo 202.030 {467} (Axial)	0.005 ppm
B 249.678 {135} (Radial)	0.050 ppm
Sr 421.552 {80} (Radial)	0.010 ppm
Si 251.611 {134} (Axial)	0.052 ppm
Sn 189.989 {477} (Axial)	0.052 ppm
S 182.034 {485} (Axial)	0.964 ppm
In 230.606 {446} (Axial)	99.222 %
Y 360.073 {94} (Radial)	101.695 %
Y 360.073 {94} (Axial)	99.998 %
Y 224.306 {450} (Axial)	100.644 %

STD2 15E06233

Sample Type STD Analysis Date 5/31/2015 6:23:47 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.485 ppm
Ba 233.527 {445} (Axial)	0.526 ppm
Cd 228.802 {447} (Axial)	0.495 ppm
Cr 267.716 {126} (Axial)	0.501 ppm
Pb 220.353 {453} (Axial)	0.491 ppm
Se 196.090 {472} (Axial)	0.496 ppm
Ag 328.068 {103} (Axial)	0.492 ppm
Cu 324.754 {104} (Radial)	0.497 ppm
Ni 231.604 {446} (Axial)	0.483 ppm
Zn 206.200 {463} (Axial)	0.490 ppm
Al 308.215 {109} (Radial)	N/A
Fe 259.940 {130} (Radial)	0.500 ppm
Fe 271.441 {124} (Radial)	N/A
Li 670.784 {50} (Radial)	0.498 ppm
Ca 317.933 {106} (Radial)	N/A
Ca 373.690 {90} (Radial)	N/A
Mg 279.079 {121} (Radial)	N/A
K 766.490 {44} (Radial)	N/A

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Na 589.592 {57} (Radial)	N/A
Na 818.326 {41} (Radial)	N/A
Sb 206.833 {463} (Axial)	0.493 ppm
Be 313.042 {108} (Radial)	0.495 ppm
Co 228.616 {447} (Axial)	0.486 ppm
Tl 190.856 {477} (Axial)	0.487 ppm
Mn 257.610 {131} (Axial)	0.506 ppm
V 292.402 {115} (Radial)	0.498 ppm
Ti 334.941 {101} (Radial)	0.498 ppm
Mo 202.030 {467} (Axial)	0.514 ppm
B 249.678 {135} (Radial)	N/A
Sr 421.552 {80} (Radial)	0.501 ppm
Si 251.611 {134} (Axial)	N/A
Sn 189.989 {477} (Axial)	0.487 ppm
S 182.034 {485} (Axial)	N/A
In 230.606 {446} (Axial)	97.821 %
Y 360.073 {94} (Radial)	101.019 %
Y 360.073 {94} (Axial)	99.615 %
Y 224.306 {450} (Axial)	99.272 %

STD3 15E06234

Sample Type STD Analysis Date 5/31/2015 6:28:20 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.981 ppm
Ba 233.527 {445} (Axial)	1.052 ppm
Cd 228.802 {447} (Axial)	1.003 ppm
Cr 267.716 {126} (Axial)	1.004 ppm
Pb 220.353 {453} (Axial)	1.005 ppm
Se 196.090 {472} (Axial)	1.002 ppm
Ag 328.068 {103} (Axial)	1.004 ppm
Cu 324.754 {104} (Radial)	1.003 ppm
Ni 231.604 {446} (Axial)	0.982 ppm
Zn 206.200 {463} (Axial)	0.988 ppm
Al 308.215 {109} (Radial)	N/A
Fe 259.940 {130} (Radial)	1.012 ppm
Fe 271.441 {124} (Radial)	N/A
Li 670.784 {50} (Radial)	1.001 ppm
Ca 317.933 {106} (Radial)	1.015 ppm
Ca 373.690 {90} (Radial)	N/A
Mg 279.079 {121} (Radial)	N/A
K 766.490 {44} (Radial)	N/A
Na 589.592 {57} (Radial)	0.999 ppm
Na 818.326 {41} (Radial)	N/A
Sb 206.833 {463} (Axial)	1.004 ppm
Be 313.042 {108} (Radial)	1.004 ppm
Co 228.616 {447} (Axial)	0.987 ppm
Tl 190.856 {477} (Axial)	1.006 ppm
Mn 257.610 {131} (Axial)	1.010 ppm
V 292.402 {115} (Radial)	1.006 ppm
Ti 334.941 {101} (Radial)	1.007 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Mo 202.030 {467} (Axial)	1.018 ppm
B 249.678 {135} (Radial)	0.989 ppm
Sr 421.552 {80} (Radial)	1.012 ppm
Si 251.611 {134} (Axial)	1.209 ppm
Sn 189.989 {477} (Axial)	0.982 ppm
S 182.034 {485} (Axial)	0.923 ppm
In 230.606 {446} (Axial)	97.064 %
Y 360.073 {94} (Radial)	100.678 %
Y 360.073 {94} (Axial)	99.461 %
Y 224.306 {450} (Axial)	99.597 %

STD4 15E05151

Sample Type STD Analysis Date 5/31/2015 6:32:50 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	2.013 ppm
Ba 233.527 {445} (Axial)	2.081 ppm
Cd 228.802 {447} (Axial)	N/A
Cr 267.716 {126} (Axial)	1.998 ppm
Pb 220.353 {453} (Axial)	N/A
Se 196.090 {472} (Axial)	N/A
Ag 328.068 {103} (Axial)	N/A
Cu 324.754 {104} (Radial)	1.999 ppm
Ni 231.604 {446} (Axial)	2.013 ppm
Zn 206.200 {463} (Axial)	2.008 ppm
Al 308.215 {109} (Radial)	1.960 ppm
Fe 259.940 {130} (Radial)	2.013 ppm
Fe 271.441 {124} (Radial)	N/A
Li 670.784 {50} (Radial)	N/A
Ca 317.933 {106} (Radial)	2.043 ppm
Ca 373.690 {90} (Radial)	N/A
Mg 279.079 {121} (Radial)	N/A
K 766.490 {44} (Radial)	N/A
Na 589.592 {57} (Radial)	1.995 ppm
Na 818.326 {41} (Radial)	N/A
Sb 206.833 {463} (Axial)	N/A
Be 313.042 {108} (Radial)	1.999 ppm
Co 228.616 {447} (Axial)	2.010 ppm
Tl 190.856 {477} (Axial)	N/A
Mn 257.610 {131} (Axial)	1.994 ppm
V 292.402 {115} (Radial)	1.997 ppm
Ti 334.941 {101} (Radial)	1.997 ppm
Mo 202.030 {467} (Axial)	1.987 ppm
B 249.678 {135} (Radial)	2.006 ppm
Sr 421.552 {80} (Radial)	1.994 ppm
Si 251.611 {134} (Axial)	2.803 ppm
Sn 189.989 {477} (Axial)	2.012 ppm
S 182.034 {485} (Axial)	1.967 ppm
In 230.606 {446} (Axial)	95.647 %
Y 360.073 {94} (Radial)	100.467 %
Y 360.073 {94} (Axial)	98.903 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Y 224.306 {450} (Axial)	99.640 %

STD5 15E05149

Sample Type STD Analysis Date 5/31/2015 6:37:15 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	N/A
Ba 233.527 {445} (Axial)	9.977 ppm
Cd 228.802 {447} (Axial)	N/A
Cr 267.716 {126} (Axial)	N/A
Pb 220.353 {453} (Axial)	N/A
Se 196.090 {472} (Axial)	N/A
Ag 328.068 {103} (Axial)	N/A
Cu 324.754 {104} (Radial)	N/A
Ni 231.604 {446} (Axial)	N/A
Zn 206.200 {463} (Axial)	N/A
Al 308.215 {109} (Radial)	10.054 ppm
Fe 259.940 {130} (Radial)	9.996 ppm
Fe 271.441 {124} (Radial)	10.853 ppm
Li 670.784 {50} (Radial)	N/A
Ca 317.933 {106} (Radial)	9.987 ppm
Ca 373.690 {90} (Radial)	10.582 ppm
Mg 279.079 {121} (Radial)	10.038 ppm
K 766.490 {44} (Radial)	9.970 ppm
Na 589.592 {57} (Radial)	9.998 ppm
Na 818.326 {41} (Radial)	10.388 ppm
Sb 206.833 {463} (Axial)	N/A
Be 313.042 {108} (Radial)	N/A
Co 228.616 {447} (Axial)	N/A
Tl 190.856 {477} (Axial)	N/A
Mn 257.610 {131} (Axial)	N/A
V 292.402 {115} (Radial)	N/A
Ti 334.941 {101} (Radial)	N/A
Mo 202.030 {467} (Axial)	N/A
B 249.678 {135} (Radial)	N/A
Sr 421.552 {80} (Radial)	N/A
Si 251.611 {134} (Axial)	9.818 ppm
Sn 189.989 {477} (Axial)	N/A
S 182.034 {485} (Axial)	10.272 ppm
In 230.606 {446} (Axial)	92.776 %
Y 360.073 {94} (Radial)	101.750 %
Y 360.073 {94} (Axial)	96.899 %
Y 224.306 {450} (Axial)	98.444 %

STD6 15E06231

Sample Type STD Analysis Date 5/31/2015 6:41:53 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	N/A
Ba 233.527 {445} (Axial)	N/A
Cd 228.802 {447} (Axial)	N/A
Cr 267.716 {126} (Axial)	N/A
Pb 220.353 {453} (Axial)	N/A
Se 196.090 {472} (Axial)	N/A
Ag 328.068 {103} (Axial)	N/A
Cu 324.754 {104} (Radial)	N/A
Ni 231.604 {446} (Axial)	N/A
Zn 206.200 {463} (Axial)	N/A
Al 308.215 {109} (Radial)	248.426 ppm
Fe 259.940 {130} (Radial)	N/A
Fe 271.441 {124} (Radial)	101.259 ppm
Li 670.784 {50} (Radial)	N/A
Ca 317.933 {106} (Radial)	N/A
Ca 373.690 {90} (Radial)	250.858 ppm
Mg 279.079 {121} (Radial)	248.411 ppm
K 766.490 {44} (Radial)	49.513 ppm
Na 589.592 {57} (Radial)	N/A
Na 818.326 {41} (Radial)	248.364 ppm
Sb 206.833 {463} (Axial)	N/A
Be 313.042 {108} (Radial)	N/A
Co 228.616 {447} (Axial)	N/A
Tl 190.856 {477} (Axial)	N/A
Mn 257.610 {131} (Axial)	N/A
V 292.402 {115} (Radial)	N/A
Ti 334.941 {101} (Radial)	N/A
Mo 202.030 {467} (Axial)	N/A
B 249.678 {135} (Radial)	N/A
Sr 421.552 {80} (Radial)	N/A
Si 251.611 {134} (Axial)	N/A
Sn 189.989 {477} (Axial)	N/A
S 182.034 {485} (Axial)	49.117 ppm
In 230.606 {446} (Axial)	69.538 %
Y 360.073 {94} (Radial)	96.488 %
Y 360.073 {94} (Axial)	84.881 %
Y 224.306 {450} (Axial)	86.148 %

STD7 15E05150

Sample Type STD Analysis Date 5/31/2015 6:46:38 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	N/A
Ba 233.527 {445} (Axial)	N/A
Cd 228.802 {447} (Axial)	N/A
Cr 267.716 {126} (Axial)	N/A
Pb 220.353 {453} (Axial)	N/A
Se 196.090 {472} (Axial)	N/A
Ag 328.068 {103} (Axial)	N/A
Cu 324.754 {104} (Radial)	N/A
Ni 231.604 {446} (Axial)	N/A

Basic sample report

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	Concentration average
Zn 206.200 {463} (Axial)	N/A
Al 308.215 {109} (Radial)	500.786 ppm
Fe 259.940 {130} (Radial)	N/A
Fe 271.441 {124} (Radial)	199.328 ppm
Li 670.784 {50} (Radial)	N/A
Ca 317.933 {106} (Radial)	N/A
Ca 373.690 {90} (Radial)	499.559 ppm
Mg 279.079 {121} (Radial)	500.794 ppm
K 766.490 {44} (Radial)	100.246 ppm
Na 589.592 {57} (Radial)	N/A
Na 818.326 {41} (Radial)	500.810 ppm
Sb 206.833 {463} (Axial)	N/A
Be 313.042 {108} (Radial)	N/A
Co 228.616 {447} (Axial)	N/A
Tl 190.856 {477} (Axial)	N/A
Mn 257.610 {131} (Axial)	N/A
V 292.402 {115} (Radial)	N/A
Ti 334.941 {101} (Radial)	N/A
Mo 202.030 {467} (Axial)	N/A
B 249.678 {135} (Radial)	N/A
Sr 421.552 {80} (Radial)	N/A
Si 251.611 {134} (Axial)	N/A
Sn 189.989 {477} (Axial)	N/A
S 182.034 {485} (Axial)	100.416 ppm
In 230.606 {446} (Axial)	61.003 %
Y 360.073 {94} (Radial)	93.165 %
Y 360.073 {94} (Axial)	79.693 %
Y 224.306 {450} (Axial)	81.037 %

ICV 15E05136

Sample Type QC Analysis Date 5/31/2015 6:51:24 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	1.014 ppm	101.434 %
Ba 233.527 {445} (Axial)	1.042 ppm	104.235 %
Cd 228.802 {447} (Axial)	1.040 ppm	104.004 %
Cr 267.716 {126} (Axial)	0.989 ppm	98.890 %
Pb 220.353 {453} (Axial)	1.058 ppm	105.778 %
Se 196.090 {472} (Axial)	1.047 ppm	104.685 %
Ag 328.068 {103} (Axial)	1.031 ppm	103.092 %
Cu 324.754 {104} (Radial)	0.998 ppm	99.779 %
Ni 231.604 {446} (Axial)	1.012 ppm	101.164 %
Zn 206.200 {463} (Axial)	1.009 ppm	100.863 %
Al 308.215 {109} (Radial)	9.980 ppm	99.801 %
Fe 259.940 {130} (Radial)	9.959 ppm	99.586 %
Fe 271.441 {124} (Radial)	11.000 ppm	110.001 %
Li 670.784 {50} (Radial)	0.987 ppm	98.678 %
Ca 317.933 {106} (Radial)	9.898 ppm	98.982 %
Ca 373.690 {90} (Radial)	10.541 ppm	105.409 %
Mg 279.079 {121} (Radial)	9.766 ppm	97.663 %
K 766.490 {44} (Radial)	9.898 ppm	98.982 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	9.778 ppm	97.783 %
Na 818.326 {41} (Radial)	10.210 ppm	102.103 %
Sb 206.833 {463} (Axial)	1.024 ppm	102.357 %
Be 313.042 {108} (Radial)	0.993 ppm	99.350 %
Co 228.616 {447} (Axial)	1.011 ppm	101.131 %
Tl 190.856 {477} (Axial)	1.044 ppm	104.431 %
Mn 257.610 {131} (Axial)	0.997 ppm	99.697 %
V 292.402 {115} (Radial)	0.999 ppm	99.859 %
Ti 334.941 {101} (Radial)	0.996 ppm	99.594 %
Mo 202.030 {467} (Axial)	1.010 ppm	100.990 %
B 249.678 {135} (Radial)	0.991 ppm	99.104 %
Sr 421.552 {80} (Radial)	0.401 ppm	100.287 %
Si 251.611 {134} (Axial)	0.962 ppm	96.189 %
Sn 189.989 {477} (Axial)	0.996 ppm	99.560 %
S 182.034 {485} (Axial)	9.745 ppm	97.449 %
In 230.606 {446} (Axial)	90.649 %	
Y 360.073 {94} (Radial)	100.319 %	
Y 360.073 {94} (Axial)	95.247 %	
Y 224.306 {450} (Axial)	96.175 %	

ICB

Sample Type QC Analysis Date 5/31/2015 6:55:49 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.000 ppm	0.799 %
Ba 233.527 {445} (Axial)	0.000 ppm	1.459 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.947 %
Cr 267.716 {126} (Axial)	0.000 ppm	-1.173 %
Pb 220.353 {453} (Axial)	0.000 ppm	-0.014 %
Se 196.090 {472} (Axial)	-0.002 ppm	-10.750 %
Ag 328.068 {103} (Axial)	0.000 ppm	-2.402 %
Cu 324.754 {104} (Radial)	-0.002 ppm	-7.503 %
Ni 231.604 {446} (Axial)	0.000 ppm	-1.149 %
Zn 206.200 {463} (Axial)	0.000 ppm	-1.503 %
Al 308.215 {109} (Radial)	0.003 ppm	2.626 %
Fe 259.940 {130} (Radial)	0.000 ppm	-0.192 %
Fe 271.441 {124} (Radial)	0.026 ppm	25.958 %
Li 670.784 {50} (Radial)	0.000 ppm	0.850 %
Ca 317.933 {106} (Radial)	0.003 ppm	0.263 %
Ca 373.690 {90} (Radial)	-0.005 ppm	-0.482 %
Mg 279.079 {121} (Radial)	0.023 ppm	2.318 %
K 766.490 {44} (Radial)	0.038 ppm	3.837 %
Na 589.592 {57} (Radial)	0.005 ppm	0.528 %
Na 818.326 {41} (Radial)	-0.001 ppm	-0.118 %
Sb 206.833 {463} (Axial)	0.002 ppm	7.766 %
Be 313.042 {108} (Radial)	0.000 ppm	1.139 %
Co 228.616 {447} (Axial)	0.000 ppm	0.126 %
Tl 190.856 {477} (Axial)	-0.001 ppm	-2.777 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.589 %
V 292.402 {115} (Radial)	-0.004 ppm	-44.144 %
Ti 334.941 {101} (Radial)	0.000 ppm	-0.838 %

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	Concentration average	Recovery Percentage 1
Mo 202.030 {467} (Axial)	0.000 ppm	8.971 %
B 249.678 {135} (Radial)	0.004 ppm	1.886 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.524 %
Si 251.611 {134} (Axial)	0.006 ppm	3.184 %
Sn 189.989 {477} (Axial)	0.001 ppm	2.700 %
S 182.034 {485} (Axial)	0.010 ppm	0.993 %
In 230.606 {446} (Axial)	99.736 %	
Y 360.073 {94} (Radial)	100.174 %	
Y 360.073 {94} (Axial)	99.149 %	
Y 224.306 {450} (Axial)	99.407 %	

ICV 15E05136

Sample Type QC Analysis Date 5/31/2015 7:19:36 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.987 ppm	98.741 %
Ba 233.527 {445} (Axial)	1.041 ppm	104.085 %
Cd 228.802 {447} (Axial)	1.019 ppm	101.870 %
Cr 267.716 {126} (Axial)	1.016 ppm	101.553 %
Pb 220.353 {453} (Axial)	1.031 ppm	103.091 %
Se 196.090 {472} (Axial)	1.025 ppm	102.465 %
Ag 328.068 {103} (Axial)	1.014 ppm	101.427 %
Cu 324.754 {104} (Radial)	1.006 ppm	100.589 %
Ni 231.604 {446} (Axial)	1.003 ppm	100.326 %
Zn 206.200 {463} (Axial)	1.011 ppm	101.055 %
Al 308.215 {109} (Radial)	10.138 ppm	101.380 %
Fe 259.940 {130} (Radial)	10.123 ppm	101.227 %
Fe 271.441 {124} (Radial)	11.183 ppm	111.830 %
Li 670.784 {50} (Radial)	0.989 ppm	98.949 %
Ca 317.933 {106} (Radial)	10.157 ppm	101.569 %
Ca 373.690 {90} (Radial)	10.817 ppm	108.169 %
Mg 279.079 {121} (Radial)	9.966 ppm	99.659 %
K 766.490 {44} (Radial)	9.954 ppm	99.539 %
Na 589.592 {57} (Radial)	9.933 ppm	99.333 %
Na 818.326 {41} (Radial)	10.235 ppm	102.348 %
Sb 206.833 {463} (Axial)	1.003 ppm	100.331 %
Be 313.042 {108} (Radial)	1.013 ppm	101.272 %
Co 228.616 {447} (Axial)	1.006 ppm	100.582 %
Tl 190.856 {477} (Axial)	1.006 ppm	100.552 %
Mn 257.610 {131} (Axial)	1.020 ppm	101.969 %
V 292.402 {115} (Radial)	1.021 ppm	102.089 %
Ti 334.941 {101} (Radial)	1.010 ppm	100.956 %
Mo 202.030 {467} (Axial)	1.001 ppm	100.093 %
B 249.678 {135} (Radial)	1.003 ppm	100.333 %
Sr 421.552 {80} (Radial)	0.406 ppm	101.612 %
Si 251.611 {134} (Axial)	0.950 ppm	94.983 %
Sn 189.989 {477} (Axial)	0.973 ppm	97.265 %
S 182.034 {485} (Axial)	9.330 ppm	93.299 %
In 230.606 {446} (Axial)	93.645 %	
Y 360.073 {94} (Radial)	101.334 %	
Y 360.073 {94} (Axial)	97.890 %	

Basic sample report

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	Concentration average	Recovery Percentage 1
Y 224.306 {450} (Axial)	99.710 %	

ICB

Sample Type QC Analysis Date 5/31/2015 7:51:36 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	-0.001 ppm	-4.638 %
Ba 233.527 {445} (Axial)	0.000 ppm	0.263 %
Cd 228.802 {447} (Axial)	0.000 ppm	3.819 %
Cr 267.716 {126} (Axial)	0.000 ppm	-2.926 %
Pb 220.353 {453} (Axial)	0.000 ppm	-3.032 %
Se 196.090 {472} (Axial)	0.000 ppm	-2.386 %
Ag 328.068 {103} (Axial)	0.000 ppm	3.325 %
Cu 324.754 {104} (Radial)	-0.002 ppm	-8.698 %
Ni 231.604 {446} (Axial)	0.000 ppm	1.293 %
Zn 206.200 {463} (Axial)	0.000 ppm	-0.005 %
Al 308.215 {109} (Radial)	-0.002 ppm	-1.589 %
Fe 259.940 {130} (Radial)	0.000 ppm	0.309 %
Fe 271.441 {124} (Radial)	0.041 ppm	40.924 %
Li 670.784 {50} (Radial)	0.000 ppm	2.465 %
Ca 317.933 {106} (Radial)	-0.003 ppm	-0.266 %
Ca 373.690 {90} (Radial)	-0.001 ppm	-0.073 %
Mg 279.079 {121} (Radial)	0.022 ppm	2.195 %
K 766.490 {44} (Radial)	0.017 ppm	1.651 %
Na 589.592 {57} (Radial)	-0.010 ppm	-0.981 %
Na 818.326 {41} (Radial)	-0.040 ppm	-4.049 %
Sb 206.833 {463} (Axial)	0.000 ppm	-0.125 %
Be 313.042 {108} (Radial)	0.000 ppm	-3.777 %
Co 228.616 {447} (Axial)	0.000 ppm	-0.424 %
Tl 190.856 {477} (Axial)	0.001 ppm	3.036 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.616 %
V 292.402 {115} (Radial)	0.001 ppm	9.230 %
Ti 334.941 {101} (Radial)	0.001 ppm	5.949 %
Mo 202.030 {467} (Axial)	0.000 ppm	-0.986 %
B 249.678 {135} (Radial)	0.005 ppm	2.550 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.565 %
Si 251.611 {134} (Axial)	0.003 ppm	1.325 %
Sn 189.989 {477} (Axial)	0.000 ppm	-1.204 %
S 182.034 {485} (Axial)	0.003 ppm	0.296 %
In 230.606 {446} (Axial)	99.818 %	
Y 360.073 {94} (Radial)	100.715 %	
Y 360.073 {94} (Axial)	100.296 %	
Y 224.306 {450} (Axial)	99.847 %	

ICVLL 15E05148

Sample Type QC Analysis Date 5/31/2015 7:56:21 PM

Dilution Factor 1

Basic sample report

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	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.022 ppm	109.748 %
Ba 233.527 {445} (Axial)	0.006 ppm	110.299 %
Cd 228.802 {447} (Axial)	0.005 ppm	104.312 %
Cr 267.716 {126} (Axial)	0.010 ppm	97.075 %
Pb 220.353 {453} (Axial)	0.005 ppm	109.483 %
Se 196.090 {472} (Axial)	0.015 ppm	76.830 %
Ag 328.068 {103} (Axial)	0.010 ppm	95.457 %
Cu 324.754 {104} (Radial)	0.019 ppm	95.637 %
Ni 231.604 {446} (Axial)	0.020 ppm	102.104 %
Zn 206.200 {463} (Axial)	0.053 ppm	105.875 %
Al 308.215 {109} (Radial)	0.111 ppm	110.697 %
Fe 259.940 {130} (Radial)	0.103 ppm	103.423 %
Fe 271.441 {124} (Radial)	0.150 ppm	150.036 %
Li 670.784 {50} (Radial)	0.016 ppm	103.996 %
Ca 317.933 {106} (Radial)	1.034 ppm	103.379 %
Ca 373.690 {90} (Radial)	1.101 ppm	110.133 %
Mg 279.079 {121} (Radial)	1.029 ppm	102.905 %
K 766.490 {44} (Radial)	1.031 ppm	103.137 %
Na 589.592 {57} (Radial)	1.019 ppm	101.888 %
Na 818.326 {41} (Radial)	1.143 ppm	114.304 %
Sb 206.833 {463} (Axial)	0.019 ppm	94.382 %
Be 313.042 {108} (Radial)	0.002 ppm	98.326 %
Co 228.616 {447} (Axial)	0.010 ppm	102.189 %
Tl 190.856 {477} (Axial)	0.023 ppm	113.450 %
Mn 257.610 {131} (Axial)	0.011 ppm	105.927 %
V 292.402 {115} (Radial)	0.018 ppm	88.093 %
Ti 334.941 {101} (Radial)	0.050 ppm	100.770 %
Mo 202.030 {467} (Axial)	0.005 ppm	94.243 %
B 249.678 {135} (Radial)	0.056 ppm	112.903 %
Sr 421.552 {80} (Radial)	0.011 ppm	105.010 %
Si 251.611 {134} (Axial)	0.048 ppm	96.926 %
Sn 189.989 {477} (Axial)	0.051 ppm	102.240 %
S 182.034 {485} (Axial)	0.955 ppm	95.501 %
In 230.606 {446} (Axial)	99.884 %	
Y 360.073 {94} (Radial)	101.910 %	
Y 360.073 {94} (Axial)	100.601 %	
Y 224.306 {450} (Axial)	101.267 %	

ICSA 15E05138

Sample Type QC Analysis Date 5/31/2015 8:01:04 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	-0.005 ppm	
Ba 233.527 {445} (Axial)	0.004 ppm	
Cd 228.802 {447} (Axial)	-0.003 ppm	
Cr 267.716 {126} (Axial)	-0.002 ppm	
Pb 220.353 {453} (Axial)	0.085 ppm	
Se 196.090 {472} (Axial)	0.056 ppm	
Ag 328.068 {103} (Axial)	0.002 ppm	
Cu 324.754 {104} (Radial)	0.002 ppm	
Ni 231.604 {446} (Axial)	0.006 ppm	

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	Concentration average	Recovery Percentage 1
Zn 206.200 {463} (Axial)	0.008 ppm	
Al 308.215 {109} (Radial)	501.559 ppm	100.312 %
Fe 259.940 {130} (Radial)	175.958 ppm	
Fe 271.441 {124} (Radial)	200.768 ppm	100.384 %
Li 670.784 {50} (Radial)	0.017 ppm	
Ca 317.933 {106} (Radial)	465.676 ppm	
Ca 373.690 {90} (Radial)	511.195 ppm	102.239 %
Mg 279.079 {121} (Radial)	504.931 ppm	100.986 %
K 766.490 {44} (Radial)	0.016 ppm	
Na 589.592 {57} (Radial)	0.014 ppm	
Na 818.326 {41} (Radial)	0.117 ppm	
Sb 206.833 {463} (Axial)	0.008 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.001 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	-0.023 ppm	
V 292.402 {115} (Radial)	0.005 ppm	
Ti 334.941 {101} (Radial)	-0.006 ppm	
Mo 202.030 {467} (Axial)	-0.001 ppm	
B 249.678 {135} (Radial)	-0.001 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Si 251.611 {134} (Axial)	-0.003 ppm	
Sn 189.989 {477} (Axial)	0.001 ppm	
S 182.034 {485} (Axial)	-0.004 ppm	
In 230.606 {446} (Axial)	65.920 %	
Y 360.073 {94} (Radial)	93.523 %	
Y 360.073 {94} (Axial)	81.627 %	
Y 224.306 {450} (Axial)	83.134 %	

ICSAB 15E05139

Sample Type QC Analysis Date 5/31/2015 8:14:29 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.511 ppm	102.291 %
Ba 233.527 {445} (Axial)	0.491 ppm	98.201 %
Cd 228.802 {447} (Axial)	1.090 ppm	109.026 %
Cr 267.716 {126} (Axial)	0.460 ppm	91.900 %
Pb 220.353 {453} (Axial)	1.102 ppm	110.176 %
Se 196.090 {472} (Axial)	0.598 ppm	119.606 %
Ag 328.068 {103} (Axial)	1.176 ppm	117.635 %
Cu 324.754 {104} (Radial)	0.507 ppm	101.455 %
Ni 231.604 {446} (Axial)	1.018 ppm	101.784 %
Zn 206.200 {463} (Axial)	0.900 ppm	90.021 %
Al 308.215 {109} (Radial)	505.099 ppm	101.020 %
Fe 259.940 {130} (Radial)	177.155 ppm	
Fe 271.441 {124} (Radial)	202.298 ppm	101.149 %
Li 670.784 {50} (Radial)	0.017 ppm	
Ca 317.933 {106} (Radial)	469.970 ppm	
Ca 373.690 {90} (Radial)	516.089 ppm	103.218 %
Mg 279.079 {121} (Radial)	510.080 ppm	102.016 %
K 766.490 {44} (Radial)	0.021 ppm	

Basic sample report

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	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	0.011 ppm	
Na 818.326 {41} (Radial)	0.217 ppm	
Sb 206.833 {463} (Axial)	0.534 ppm	106.829 %
Be 313.042 {108} (Radial)	0.487 ppm	97.450 %
Co 228.616 {447} (Axial)	0.516 ppm	103.194 %
Tl 190.856 {477} (Axial)	0.490 ppm	98.038 %
Mn 257.610 {131} (Axial)	0.446 ppm	89.119 %
V 292.402 {115} (Radial)	0.480 ppm	95.952 %
Ti 334.941 {101} (Radial)	0.482 ppm	96.420 %
Mo 202.030 {467} (Axial)	0.453 ppm	90.510 %
B 249.678 {135} (Radial)	0.968 ppm	96.827 %
Sr 421.552 {80} (Radial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.972 ppm	
Sn 189.989 {477} (Axial)	0.423 ppm	
S 182.034 {485} (Axial)	-0.005 ppm	
In 230.606 {446} (Axial)	65.279 %	
Y 360.073 {94} (Radial)	93.046 %	
Y 360.073 {94} (Axial)	81.618 %	
Y 224.306 {450} (Axial)	82.646 %	

carryover

Sample Type UNKNOWN Analysis Date 5/31/2015 8:19:00 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.001 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.001 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Al 308.215 {109} (Radial)	0.031 ppm
Fe 259.940 {130} (Radial)	0.011 ppm
Fe 271.441 {124} (Radial)	-0.012 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.027 ppm
Ca 373.690 {90} (Radial)	0.031 ppm
Mg 279.079 {121} (Radial)	0.047 ppm
K 766.490 {44} (Radial)	0.015 ppm
Na 589.592 {57} (Radial)	-0.013 ppm
Na 818.326 {41} (Radial)	-0.024 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	0.001 ppm
Ti 334.941 {101} (Radial)	0.001 ppm

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	Concentration average
Mo 202.030 {467} (Axial)	0.000 ppm
B 249.678 {135} (Radial)	-0.001 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.001 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	-0.001 ppm
In 230.606 {446} (Axial)	100.078 %
Y 360.073 {94} (Radial)	100.122 %
Y 360.073 {94} (Axial)	99.436 %
Y 224.306 {450} (Axial)	99.794 %

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Sample Type UNKNOWN Analysis Date 5/31/2015 8:23:46 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.003 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	-0.001 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.001 ppm
Al 308.215 {109} (Radial)	0.007 ppm
Fe 259.940 {130} (Radial)	0.009 ppm
Fe 271.441 {124} (Radial)	0.044 ppm
Li 670.784 {50} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.010 ppm
Ca 373.690 {90} (Radial)	0.017 ppm
Mg 279.079 {121} (Radial)	-0.011 ppm
K 766.490 {44} (Radial)	0.208 ppm
Na 589.592 {57} (Radial)	0.431 ppm
Na 818.326 {41} (Radial)	0.247 ppm
Sb 206.833 {463} (Axial)	-0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.002 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	-0.002 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
Mo 202.030 {467} (Axial)	-0.001 ppm
B 249.678 {135} (Radial)	0.001 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.009 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.579 ppm
In 230.606 {446} (Axial)	99.294 %
Y 360.073 {94} (Radial)	101.009 %
Y 360.073 {94} (Axial)	100.158 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Y 224.306 {450} (Axial)	101.000 %

LCS WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:28:30 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	1.090 ppm
Ba 233.527 {445} (Axial)	1.120 ppm
Cd 228.802 {447} (Axial)	1.116 ppm
Cr 267.716 {126} (Axial)	1.087 ppm
Pb 220.353 {453} (Axial)	1.147 ppm
Se 196.090 {472} (Axial)	1.145 ppm
Ag 328.068 {103} (Axial)	1.114 ppm
Cu 324.754 {104} (Radial)	1.074 ppm
Ni 231.604 {446} (Axial)	1.090 ppm
Zn 206.200 {463} (Axial)	1.065 ppm
Al 308.215 {109} (Radial)	1.092 ppm
Fe 259.940 {130} (Radial)	1.079 ppm
Fe 271.441 {124} (Radial)	1.302 ppm
Li 670.784 {50} (Radial)	1.055 ppm
Ca 317.933 {106} (Radial)	10.705 ppm
Ca 373.690 {90} (Radial)	11.336 ppm
Mg 279.079 {121} (Radial)	10.818 ppm
K 766.490 {44} (Radial)	10.758 ppm
Na 589.592 {57} (Radial)	10.484 ppm
Na 818.326 {41} (Radial)	11.097 ppm
Sb 206.833 {463} (Axial)	1.096 ppm
Be 313.042 {108} (Radial)	1.117 ppm
Co 228.616 {447} (Axial)	1.097 ppm
Tl 190.856 {477} (Axial)	1.157 ppm
Mn 257.610 {131} (Axial)	1.072 ppm
V 292.402 {115} (Radial)	1.098 ppm
Ti 334.941 {101} (Radial)	1.045 ppm
Mo 202.030 {467} (Axial)	1.050 ppm
B 249.678 {135} (Radial)	1.083 ppm
Sr 421.552 {80} (Radial)	1.065 ppm
Si 251.611 {134} (Axial)	1.070 ppm
Sn 189.989 {477} (Axial)	1.044 ppm
S 182.034 {485} (Axial)	0.585 ppm
In 230.606 {446} (Axial)	92.012 %
Y 360.073 {94} (Radial)	99.200 %
Y 360.073 {94} (Axial)	96.187 %
Y 224.306 {450} (Axial)	97.885 %

LCSD WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:32:58 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	1.063 ppm
Ba 233.527 {445} (Axial)	1.097 ppm
Cd 228.802 {447} (Axial)	1.085 ppm
Cr 267.716 {126} (Axial)	1.064 ppm
Pb 220.353 {453} (Axial)	1.111 ppm
Se 196.090 {472} (Axial)	1.109 ppm
Ag 328.068 {103} (Axial)	1.088 ppm
Cu 324.754 {104} (Radial)	1.046 ppm
Ni 231.604 {446} (Axial)	1.063 ppm
Zn 206.200 {463} (Axial)	1.038 ppm
Al 308.215 {109} (Radial)	1.061 ppm
Fe 259.940 {130} (Radial)	1.051 ppm
Fe 271.441 {124} (Radial)	1.258 ppm
Li 670.784 {50} (Radial)	1.041 ppm
Ca 317.933 {106} (Radial)	10.381 ppm
Ca 373.690 {90} (Radial)	11.012 ppm
Mg 279.079 {121} (Radial)	10.457 ppm
K 766.490 {44} (Radial)	10.528 ppm
Na 589.592 {57} (Radial)	10.322 ppm
Na 818.326 {41} (Radial)	10.829 ppm
Sb 206.833 {463} (Axial)	1.072 ppm
Be 313.042 {108} (Radial)	1.089 ppm
Co 228.616 {447} (Axial)	1.070 ppm
Tl 190.856 {477} (Axial)	1.117 ppm
Mn 257.610 {131} (Axial)	1.053 ppm
V 292.402 {115} (Radial)	1.078 ppm
Ti 334.941 {101} (Radial)	1.023 ppm
Mo 202.030 {467} (Axial)	1.029 ppm
B 249.678 {135} (Radial)	1.047 ppm
Sr 421.552 {80} (Radial)	1.048 ppm
Si 251.611 {134} (Axial)	1.053 ppm
Sn 189.989 {477} (Axial)	1.021 ppm
S 182.034 {485} (Axial)	0.628 ppm
In 230.606 {446} (Axial)	91.476 %
Y 360.073 {94} (Radial)	99.100 %
Y 360.073 {94} (Axial)	95.728 %
Y 224.306 {450} (Axial)	97.186 %

L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:37:25 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	0.014 ppm
Ba 233.527 {445} (Axial)	0.036 ppm
Cd 228.802 {447} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	-0.008 ppm
Pb 220.353 {453} (Axial)	0.032 ppm
Se 196.090 {472} (Axial)	0.018 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cu 324.754 {104} (Radial)	-0.048 ppm
Ni 231.604 {446} (Axial)	0.001 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Zn 206.200 {463} (Axial)	0.136 ppm
Al 308.215 {109} (Radial)	0.048 ppm
Fe 259.940 {130} (Radial)	0.083 ppm
Fe 271.441 {124} (Radial)	0.783 ppm
Li 670.784 {50} (Radial)	0.254 ppm
Ca 317.933 {106} (Radial)	1,012.736 ppm
Ca 373.690 {90} (Radial)	1,088.688 ppm
Mg 279.079 {121} (Radial)	983.558 ppm
K 766.490 {44} (Radial)	13.060 ppm
Na 589.592 {57} (Radial)	4,394.022 ppm
Na 818.326 {41} (Radial)	5,096.273 ppm
Sb 206.833 {463} (Axial)	-0.006 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.031 ppm
Mn 257.610 {131} (Axial)	0.615 ppm
V 292.402 {115} (Radial)	-0.018 ppm
Ti 334.941 {101} (Radial)	0.022 ppm
Mo 202.030 {467} (Axial)	0.020 ppm
B 249.678 {135} (Radial)	0.203 ppm
Sr 421.552 {80} (Radial)	22.126 ppm
Si 251.611 {134} (Axial)	20.238 ppm
Sn 189.989 {477} (Axial)	-0.002 ppm
S 182.034 {485} (Axial)	1,321.715 ppm
In 230.606 {446} (Axial)	73.803 %
Y 360.073 {94} (Radial)	93.989 %
Y 360.073 {94} (Axial)	82.469 %
Y 224.306 {450} (Axial)	84.268 %

SD L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:42:11 PM

Dilution Factor 50

	Concentration average
As 189.042 {478} (Axial)	-0.009 ppm
Ba 233.527 {445} (Axial)	0.036 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cr 267.716 {126} (Axial)	-0.027 ppm
Pb 220.353 {453} (Axial)	0.057 ppm
Se 196.090 {472} (Axial)	0.002 ppm
Ag 328.068 {103} (Axial)	0.014 ppm
Cu 324.754 {104} (Radial)	-0.118 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Zn 206.200 {463} (Axial)	0.142 ppm
Al 308.215 {109} (Radial)	0.466 ppm
Fe 259.940 {130} (Radial)	0.076 ppm
Fe 271.441 {124} (Radial)	1.783 ppm
Li 670.784 {50} (Radial)	0.269 ppm
Ca 317.933 {106} (Radial)	1,093.308 ppm
Ca 373.690 {90} (Radial)	1,167.219 ppm
Mg 279.079 {121} (Radial)	1,020.157 ppm
K 766.490 {44} (Radial)	14.064 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Na 589.592 {57} (Radial)	5,053.378 ppm
Na 818.326 {41} (Radial)	5,367.054 ppm
Sb 206.833 {463} (Axial)	-0.116 ppm
Be 313.042 {108} (Radial)	0.001 ppm
Co 228.616 {447} (Axial)	-0.002 ppm
Tl 190.856 {477} (Axial)	0.035 ppm
Mn 257.610 {131} (Axial)	0.657 ppm
V 292.402 {115} (Radial)	-0.064 ppm
Ti 334.941 {101} (Radial)	0.013 ppm
Mo 202.030 {467} (Axial)	0.037 ppm
B 249.678 {135} (Radial)	0.641 ppm
Sr 421.552 {80} (Radial)	23.319 ppm
Si 251.611 {134} (Axial)	20.317 ppm
Sn 189.989 {477} (Axial)	-0.023 ppm
S 182.034 {485} (Axial)	1,290.103 ppm
In 230.606 {446} (Axial)	86.797 %
Y 360.073 {94} (Radial)	98.109 %
Y 360.073 {94} (Axial)	91.642 %
Y 224.306 {450} (Axial)	93.596 %

MS L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:46:50 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	1.095 ppm
Ba 233.527 {445} (Axial)	1.094 ppm
Cd 228.802 {447} (Axial)	1.142 ppm
Cr 267.716 {126} (Axial)	1.046 ppm
Pb 220.353 {453} (Axial)	1.100 ppm
Se 196.090 {472} (Axial)	1.172 ppm
Ag 328.068 {103} (Axial)	1.195 ppm
Cu 324.754 {104} (Radial)	1.009 ppm
Ni 231.604 {446} (Axial)	1.065 ppm
Zn 206.200 {463} (Axial)	1.043 ppm
Al 308.215 {109} (Radial)	1.097 ppm
Fe 259.940 {130} (Radial)	1.091 ppm
Fe 271.441 {124} (Radial)	1.206 ppm
Li 670.784 {50} (Radial)	1.284 ppm
Ca 317.933 {106} (Radial)	1,027.207 ppm
Ca 373.690 {90} (Radial)	1,106.158 ppm
Mg 279.079 {121} (Radial)	1,001.443 ppm
K 766.490 {44} (Radial)	23.015 ppm
Na 589.592 {57} (Radial)	4,349.601 ppm
Na 818.326 {41} (Radial)	5,110.409 ppm
Sb 206.833 {463} (Axial)	1.109 ppm
Be 313.042 {108} (Radial)	1.050 ppm
Co 228.616 {447} (Axial)	1.080 ppm
Tl 190.856 {477} (Axial)	0.992 ppm
Mn 257.610 {131} (Axial)	1.656 ppm
V 292.402 {115} (Radial)	1.069 ppm
Ti 334.941 {101} (Radial)	1.043 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Mo 202.030 {467} (Axial)	1.014 ppm
B 249.678 {135} (Radial)	1.317 ppm
Sr 421.552 {80} (Radial)	23.089 ppm
Si 251.611 {134} (Axial)	21.200 ppm
Sn 189.989 {477} (Axial)	0.951 ppm
S 182.034 {485} (Axial)	1,311.430 ppm
In 230.606 {446} (Axial)	74.249 %
Y 360.073 {94} (Radial)	93.775 %
Y 360.073 {94} (Axial)	83.287 %
Y 224.306 {450} (Axial)	85.022 %

MSD L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:51:34 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	1.212 ppm
Ba 233.527 {445} (Axial)	1.107 ppm
Cd 228.802 {447} (Axial)	1.165 ppm
Cr 267.716 {126} (Axial)	1.041 ppm
Pb 220.353 {453} (Axial)	1.113 ppm
Se 196.090 {472} (Axial)	1.245 ppm
Ag 328.068 {103} (Axial)	1.205 ppm
Cu 324.754 {104} (Radial)	1.085 ppm
Ni 231.604 {446} (Axial)	1.068 ppm
Zn 206.200 {463} (Axial)	1.038 ppm
Al 308.215 {109} (Radial)	1.204 ppm
Fe 259.940 {130} (Radial)	1.059 ppm
Fe 271.441 {124} (Radial)	1.609 ppm
Li 670.784 {50} (Radial)	1.308 ppm
Ca 317.933 {106} (Radial)	1,007.997 ppm
Ca 373.690 {90} (Radial)	1,088.097 ppm
Mg 279.079 {121} (Radial)	985.415 ppm
K 766.490 {44} (Radial)	23.096 ppm
Na 589.592 {57} (Radial)	4,233.583 ppm
Na 818.326 {41} (Radial)	5,096.326 ppm
Sb 206.833 {463} (Axial)	1.162 ppm
Be 313.042 {108} (Radial)	1.060 ppm
Co 228.616 {447} (Axial)	1.081 ppm
Tl 190.856 {477} (Axial)	1.027 ppm
Mn 257.610 {131} (Axial)	1.634 ppm
V 292.402 {115} (Radial)	1.068 ppm
Ti 334.941 {101} (Radial)	1.046 ppm
Mo 202.030 {467} (Axial)	1.036 ppm
B 249.678 {135} (Radial)	1.373 ppm
Sr 421.552 {80} (Radial)	23.157 ppm
Si 251.611 {134} (Axial)	20.981 ppm
Sn 189.989 {477} (Axial)	0.965 ppm
S 182.034 {485} (Axial)	1,312.382 ppm
In 230.606 {446} (Axial)	73.711 %
Y 360.073 {94} (Radial)	95.620 %
Y 360.073 {94} (Axial)	82.936 %

Basic sample report

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	Concentration average
Y 224.306 {450} (Axial)	83.195 %

L766887-02 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 8:56:18 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	0.016 ppm
Ba 233.527 {445} (Axial)	0.041 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cr 267.716 {126} (Axial)	-0.007 ppm
Pb 220.353 {453} (Axial)	0.030 ppm
Se 196.090 {472} (Axial)	0.062 ppm
Ag 328.068 {103} (Axial)	0.008 ppm
Cu 324.754 {104} (Radial)	-0.037 ppm
Ni 231.604 {446} (Axial)	0.004 ppm
Zn 206.200 {463} (Axial)	0.011 ppm
Al 308.215 {109} (Radial)	-0.078 ppm
Fe 259.940 {130} (Radial)	-0.001 ppm
Fe 271.441 {124} (Radial)	0.252 ppm
Li 670.784 {50} (Radial)	0.265 ppm
Ca 317.933 {106} (Radial)	894.581 ppm
Ca 373.690 {90} (Radial)	969.327 ppm
Mg 279.079 {121} (Radial)	1,064.826 ppm
K 766.490 {44} (Radial)	9.889 ppm
Na 589.592 {57} (Radial)	4,535.272 ppm
Na 818.326 {41} (Radial)	5,485.142 ppm
Sb 206.833 {463} (Axial)	0.025 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.007 ppm
Mn 257.610 {131} (Axial)	1.321 ppm
V 292.402 {115} (Radial)	0.003 ppm
Ti 334.941 {101} (Radial)	0.020 ppm
Mo 202.030 {467} (Axial)	0.047 ppm
B 249.678 {135} (Radial)	0.455 ppm
Sr 421.552 {80} (Radial)	20.407 ppm
Si 251.611 {134} (Axial)	17.362 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,569.049 ppm
In 230.606 {446} (Axial)	71.168 %
Y 360.073 {94} (Radial)	96.339 %
Y 360.073 {94} (Axial)	81.521 %
Y 224.306 {450} (Axial)	78.790 %

L766887-03 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 9:01:03 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	0.001 ppm
Ba 233.527 {445} (Axial)	0.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	-0.001 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.007 ppm
Al 308.215 {109} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.002 ppm
Fe 271.441 {124} (Radial)	0.032 ppm
Li 670.784 {50} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.265 ppm
Ca 373.690 {90} (Radial)	0.281 ppm
Mg 279.079 {121} (Radial)	0.009 ppm
K 766.490 {44} (Radial)	0.075 ppm
Na 589.592 {57} (Radial)	0.543 ppm
Na 818.326 {41} (Radial)	0.322 ppm
Sb 206.833 {463} (Axial)	-0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.002 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	-0.004 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
Mo 202.030 {467} (Axial)	-0.001 ppm
B 249.678 {135} (Radial)	0.027 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.053 ppm
Sn 189.989 {477} (Axial)	-0.001 ppm
S 182.034 {485} (Axial)	0.097 ppm
In 230.606 {446} (Axial)	96.718 %
Y 360.073 {94} (Radial)	103.597 %
Y 360.073 {94} (Axial)	98.759 %
Y 224.306 {450} (Axial)	94.980 %

L766887-04 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 9:05:45 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	-0.015 ppm
Ba 233.527 {445} (Axial)	0.041 ppm
Cd 228.802 {447} (Axial)	0.001 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.018 ppm
Se 196.090 {472} (Axial)	0.011 ppm
Ag 328.068 {103} (Axial)	0.015 ppm
Cu 324.754 {104} (Radial)	-0.019 ppm
Ni 231.604 {446} (Axial)	0.001 ppm

Basic sample report

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	Concentration average
Zn 206.200 {463} (Axial)	0.013 ppm
Al 308.215 {109} (Radial)	0.232 ppm
Fe 259.940 {130} (Radial)	0.019 ppm
Fe 271.441 {124} (Radial)	0.770 ppm
Li 670.784 {50} (Radial)	0.270 ppm
Ca 317.933 {106} (Radial)	877.106 ppm
Ca 373.690 {90} (Radial)	956.526 ppm
Mg 279.079 {121} (Radial)	1,051.603 ppm
K 766.490 {44} (Radial)	9.626 ppm
Na 589.592 {57} (Radial)	4,705.295 ppm
Na 818.326 {41} (Radial)	5,492.597 ppm
Sb 206.833 {463} (Axial)	-0.004 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.006 ppm
Tl 190.856 {477} (Axial)	-0.046 ppm
Mn 257.610 {131} (Axial)	1.310 ppm
V 292.402 {115} (Radial)	-0.015 ppm
Ti 334.941 {101} (Radial)	0.025 ppm
Mo 202.030 {467} (Axial)	0.041 ppm
B 249.678 {135} (Radial)	0.453 ppm
Sr 421.552 {80} (Radial)	20.518 ppm
Si 251.611 {134} (Axial)	17.239 ppm
Sn 189.989 {477} (Axial)	-0.010 ppm
S 182.034 {485} (Axial)	1,566.489 ppm
In 230.606 {446} (Axial)	70.165 %
Y 360.073 {94} (Radial)	96.676 %
Y 360.073 {94} (Axial)	80.667 %
Y 224.306 {450} (Axial)	77.145 %

CCV 15E05137

Sample Type QC Analysis Date 5/31/2015 9:10:29 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	-0.005 ppm	-0.227 %
Ba 233.527 {445} (Axial)	0.006 ppm	1.112 %
Cd 228.802 {447} (Axial)	-0.002 ppm	-0.384 %
Cr 267.716 {126} (Axial)	-0.001 ppm	-0.105 %
Pb 220.353 {453} (Axial)	0.093 ppm	18.592 %
Se 196.090 {472} (Axial)	0.067 ppm	3.353 %
Ag 328.068 {103} (Axial)	0.003 ppm	0.341 %
Cu 324.754 {104} (Radial)	0.002 ppm	0.079 %
Ni 231.604 {446} (Axial)	0.008 ppm	0.381 %
Zn 206.200 {463} (Axial)	0.009 ppm	0.313 %
Al 308.215 {109} (Radial)	492.039 ppm	4,920.392 %
Fe 259.940 {130} (Radial)	168.416 ppm	1,684.163 %
Fe 271.441 {124} (Radial)	191.361 ppm	1,913.605 %
Li 670.784 {50} (Radial)	0.019 ppm	1.245 %
Ca 317.933 {106} (Radial)	436.570 ppm	873.140 %
Ca 373.690 {90} (Radial)	489.526 ppm	979.052 %
Mg 279.079 {121} (Radial)	480.296 ppm	4,802.961 %
K 766.490 {44} (Radial)	0.094 ppm	0.188 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	0.231 ppm	0.462 %
Na 818.326 {41} (Radial)	0.305 ppm	0.610 %
Sb 206.833 {463} (Axial)	0.008 ppm	0.413 %
Be 313.042 {108} (Radial)	0.000 ppm	0.081 %
Co 228.616 {447} (Axial)	0.002 ppm	0.188 %
Tl 190.856 {477} (Axial)	0.003 ppm	0.154 %
Mn 257.610 {131} (Axial)	-0.023 ppm	-2.254 %
V 292.402 {115} (Radial)	0.006 ppm	0.589 %
Ti 334.941 {101} (Radial)	-0.004 ppm	-0.380 %
Mo 202.030 {467} (Axial)	0.001 ppm	0.141 %
B 249.678 {135} (Radial)	0.006 ppm	0.315 %
Sr 421.552 {80} (Radial)	0.002 ppm	0.190 %
Si 251.611 {134} (Axial)	0.002 ppm	0.078 %
Sn 189.989 {477} (Axial)	0.004 ppm	0.208 %
S 182.034 {485} (Axial)	0.020 ppm	0.405 %
In 230.606 {446} (Axial)	63.350 %	
Y 360.073 {94} (Radial)	97.092 %	
Y 360.073 {94} (Axial)	80.495 %	
Y 224.306 {450} (Axial)	77.283 %	

CCB 15E05148

Sample Type QC Analysis Date 5/31/2015 9:15:07 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	-0.004 ppm	-21.447 %
Ba 233.527 {445} (Axial)	0.000 ppm	-0.416 %
Cd 228.802 {447} (Axial)	0.000 ppm	4.226 %
Cr 267.716 {126} (Axial)	0.000 ppm	-2.783 %
Pb 220.353 {453} (Axial)	-0.003 ppm	-53.394 %
Se 196.090 {472} (Axial)	0.003 ppm	13.160 %
Ag 328.068 {103} (Axial)	0.000 ppm	2.577 %
Cu 324.754 {104} (Radial)	-0.002 ppm	-11.952 %
Ni 231.604 {446} (Axial)	0.000 ppm	-0.299 %
Zn 206.200 {463} (Axial)	0.000 ppm	-0.211 %
Al 308.215 {109} (Radial)	0.024 ppm	23.553 %
Fe 259.940 {130} (Radial)	0.012 ppm	12.427 %
Fe 271.441 {124} (Radial)	-0.003 ppm	-3.110 %
Li 670.784 {50} (Radial)	0.000 ppm	0.625 %
Ca 317.933 {106} (Radial)	0.028 ppm	2.793 %
Ca 373.690 {90} (Radial)	0.026 ppm	2.629 %
Mg 279.079 {121} (Radial)	0.065 ppm	6.462 %
K 766.490 {44} (Radial)	0.009 ppm	0.911 %
Na 589.592 {57} (Radial)	0.033 ppm	3.333 %
Na 818.326 {41} (Radial)	-0.031 ppm	-3.131 %
Sb 206.833 {463} (Axial)	0.000 ppm	0.231 %
Be 313.042 {108} (Radial)	0.000 ppm	-0.604 %
Co 228.616 {447} (Axial)	0.000 ppm	-1.116 %
Tl 190.856 {477} (Axial)	0.000 ppm	-1.871 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.845 %
V 292.402 {115} (Radial)	-0.002 ppm	-15.831 %
Ti 334.941 {101} (Radial)	0.000 ppm	-2.014 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Mo 202.030 {467} (Axial)	0.000 ppm	7.800 %
B 249.678 {135} (Radial)	0.004 ppm	1.815 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.290 %
Si 251.611 {134} (Axial)	0.001 ppm	0.449 %
Sn 189.989 {477} (Axial)	0.000 ppm	-0.356 %
S 182.034 {485} (Axial)	0.005 ppm	0.511 %
In 230.606 {446} (Axial)	98.043 %	
Y 360.073 {94} (Radial)	105.438 %	
Y 360.073 {94} (Axial)	98.978 %	
Y 224.306 {450} (Axial)	93.707 %	

L766918-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 9:19:50 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.006 ppm
Ba 233.527 {445} (Axial)	0.044 ppm
Cd 228.802 {447} (Axial)	-0.003 ppm
Cr 267.716 {126} (Axial)	-0.001 ppm
Pb 220.353 {453} (Axial)	0.019 ppm
Se 196.090 {472} (Axial)	0.013 ppm
Ag 328.068 {103} (Axial)	0.006 ppm
Cu 324.754 {104} (Radial)	-0.004 ppm
Ni 231.604 {446} (Axial)	-0.001 ppm
Zn 206.200 {463} (Axial)	0.006 ppm
Al 308.215 {109} (Radial)	0.020 ppm
Fe 259.940 {130} (Radial)	0.006 ppm
Fe 271.441 {124} (Radial)	-0.076 ppm
Li 670.784 {50} (Radial)	0.167 ppm
Ca 317.933 {106} (Radial)	537.893 ppm
Ca 373.690 {90} (Radial)	597.729 ppm
Mg 279.079 {121} (Radial)	445.763 ppm
K 766.490 {44} (Radial)	10.327 ppm
Na 589.592 {57} (Radial)	1,072.686 ppm
Na 818.326 {41} (Radial)	1,909.483 ppm
Sb 206.833 {463} (Axial)	-0.003 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.004 ppm
Mn 257.610 {131} (Axial)	0.157 ppm
V 292.402 {115} (Radial)	-0.004 ppm
Ti 334.941 {101} (Radial)	-0.003 ppm
Mo 202.030 {467} (Axial)	0.022 ppm
B 249.678 {135} (Radial)	0.394 ppm
Sr 421.552 {80} (Radial)	13.036 ppm
Si 251.611 {134} (Axial)	12.851 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,106.147 ppm
In 230.606 {446} (Axial)	58.841 %
Y 360.073 {94} (Radial)	87.163 %
Y 360.073 {94} (Axial)	71.076 %

Basic sample report

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	Concentration average
Y 224.306 {450} (Axial)	72.048 %

L766918-03 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 9:24:44 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.004 ppm
Ba 233.527 {445} (Axial)	0.051 ppm
Cd 228.802 {447} (Axial)	-0.004 ppm
Cr 267.716 {126} (Axial)	-0.002 ppm
Pb 220.353 {453} (Axial)	0.021 ppm
Se 196.090 {472} (Axial)	0.031 ppm
Ag 328.068 {103} (Axial)	0.006 ppm
Cu 324.754 {104} (Radial)	-0.002 ppm
Ni 231.604 {446} (Axial)	-0.001 ppm
Zn 206.200 {463} (Axial)	0.013 ppm
Al 308.215 {109} (Radial)	0.059 ppm
Fe 259.940 {130} (Radial)	0.006 ppm
Fe 271.441 {124} (Radial)	0.043 ppm
Li 670.784 {50} (Radial)	0.198 ppm
Ca 317.933 {106} (Radial)	700.106 ppm
Ca 373.690 {90} (Radial)	770.515 ppm
Mg 279.079 {121} (Radial)	733.763 ppm
K 766.490 {44} (Radial)	12.838 ppm
Na 589.592 {57} (Radial)	1,221.395 ppm
Na 818.326 {41} (Radial)	3,034.166 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.002 ppm
Mn 257.610 {131} (Axial)	0.195 ppm
V 292.402 {115} (Radial)	-0.010 ppm
Ti 334.941 {101} (Radial)	-0.011 ppm
Mo 202.030 {467} (Axial)	0.013 ppm
B 249.678 {135} (Radial)	0.317 ppm
Sr 421.552 {80} (Radial)	17.508 ppm
Si 251.611 {134} (Axial)	13.158 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,156.554 ppm
In 230.606 {446} (Axial)	54.954 %
Y 360.073 {94} (Radial)	80.625 %
Y 360.073 {94} (Axial)	66.776 %
Y 224.306 {450} (Axial)	69.100 %

L766918-05 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 9:29:38 PM

Dilution Factor 1

Basic sample report

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	Concentration average
As 189.042 {478} (Axial)	0.009 ppm
Ba 233.527 {445} (Axial)	0.060 ppm
Cd 228.802 {447} (Axial)	-0.004 ppm
Cr 267.716 {126} (Axial)	-0.003 ppm
Pb 220.353 {453} (Axial)	0.037 ppm
Se 196.090 {472} (Axial)	-0.003 ppm
Ag 328.068 {103} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	-0.006 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Al 308.215 {109} (Radial)	0.053 ppm
Fe 259.940 {130} (Radial)	0.022 ppm
Fe 271.441 {124} (Radial)	0.054 ppm
Li 670.784 {50} (Radial)	0.115 ppm
Ca 317.933 {106} (Radial)	614.181 ppm
Ca 373.690 {90} (Radial)	663.352 ppm
Mg 279.079 {121} (Radial)	166.041 ppm
K 766.490 {44} (Radial)	11.939 ppm
Na 589.592 {57} (Radial)	84.396 ppm
Na 818.326 {41} (Radial)	94.788 ppm
Sb 206.833 {463} (Axial)	0.004 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.002 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.415 ppm
V 292.402 {115} (Radial)	0.003 ppm
Ti 334.941 {101} (Radial)	0.001 ppm
Mo 202.030 {467} (Axial)	0.016 ppm
B 249.678 {135} (Radial)	0.160 ppm
Sr 421.552 {80} (Radial)	11.142 ppm
Si 251.611 {134} (Axial)	34.071 ppm
Sn 189.989 {477} (Axial)	-0.002 ppm
S 182.034 {485} (Axial)	617.577 ppm
In 230.606 {446} (Axial)	73.517 %
Y 360.073 {94} (Radial)	87.771 %
Y 360.073 {94} (Axial)	81.835 %
Y 224.306 {450} (Axial)	83.962 %

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Sample Type QC Analysis Date 5/31/2015 9:58:48 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	1.936 ppm	96.807 %
Ba 233.527 {445} (Axial)	0.510 ppm	101.984 %
Cd 228.802 {447} (Axial)	0.511 ppm	102.235 %
Cr 267.716 {126} (Axial)	1.000 ppm	100.023 %
Pb 220.353 {453} (Axial)	0.496 ppm	99.194 %
Se 196.090 {472} (Axial)	2.045 ppm	102.260 %
Ag 328.068 {103} (Axial)	1.013 ppm	101.304 %
Cu 324.754 {104} (Radial)	1.954 ppm	97.693 %
Ni 231.604 {446} (Axial)	2.023 ppm	101.159 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Zn 206.200 {463} (Axial)	2.990 ppm	99.672 %
Al 308.215 {109} (Radial)	9.724 ppm	97.243 %
Fe 259.940 {130} (Radial)	9.931 ppm	99.308 %
Fe 271.441 {124} (Radial)	11.255 ppm	112.547 %
Li 670.784 {50} (Radial)	1.406 ppm	93.751 %
Ca 317.933 {106} (Radial)	50.188 ppm	100.376 %
Ca 373.690 {90} (Radial)	53.460 ppm	106.921 %
Mg 279.079 {121} (Radial)	9.802 ppm	98.015 %
K 766.490 {44} (Radial)	48.271 ppm	96.541 %
Na 589.592 {57} (Radial)	46.650 ppm	93.300 %
Na 818.326 {41} (Radial)	49.418 ppm	98.836 %
Sb 206.833 {463} (Axial)	2.009 ppm	100.435 %
Be 313.042 {108} (Radial)	0.199 ppm	99.443 %
Co 228.616 {447} (Axial)	1.006 ppm	100.559 %
Tl 190.856 {477} (Axial)	1.867 ppm	93.353 %
Mn 257.610 {131} (Axial)	0.996 ppm	99.642 %
V 292.402 {115} (Radial)	1.002 ppm	100.210 %
Ti 334.941 {101} (Radial)	1.006 ppm	100.623 %
Mo 202.030 {467} (Axial)	0.459 ppm	91.768 %
B 249.678 {135} (Radial)	1.944 ppm	97.194 %
Sr 421.552 {80} (Radial)	0.980 ppm	98.027 %
Si 251.611 {134} (Axial)	1.846 ppm	92.316 %
Sn 189.989 {477} (Axial)	1.855 ppm	92.734 %
S 182.034 {485} (Axial)	4.568 ppm	91.360 %
In 230.606 {446} (Axial)	86.248 %	
Y 360.073 {94} (Radial)	97.780 %	
Y 360.073 {94} (Axial)	92.599 %	
Y 224.306 {450} (Axial)	95.136 %	

CCB 15E05148

Sample Type QC Analysis Date 5/31/2015 10:03:11 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.002 ppm	8.431 %
Ba 233.527 {445} (Axial)	0.000 ppm	-1.864 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.279 %
Cr 267.716 {126} (Axial)	0.000 ppm	-0.364 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-28.569 %
Se 196.090 {472} (Axial)	-0.002 ppm	-12.387 %
Ag 328.068 {103} (Axial)	0.000 ppm	-3.445 %
Cu 324.754 {104} (Radial)	0.000 ppm	-1.996 %
Ni 231.604 {446} (Axial)	0.000 ppm	-0.571 %
Zn 206.200 {463} (Axial)	0.000 ppm	-0.022 %
Al 308.215 {109} (Radial)	0.010 ppm	10.473 %
Fe 259.940 {130} (Radial)	0.003 ppm	2.849 %
Fe 271.441 {124} (Radial)	0.018 ppm	17.915 %
Li 670.784 {50} (Radial)	0.000 ppm	0.164 %
Ca 317.933 {106} (Radial)	0.007 ppm	0.717 %
Ca 373.690 {90} (Radial)	-0.002 ppm	-0.187 %
Mg 279.079 {121} (Radial)	0.007 ppm	0.739 %
K 766.490 {44} (Radial)	0.056 ppm	5.594 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	0.072 ppm	7.210 %
Na 818.326 {41} (Radial)	-0.001 ppm	-0.120 %
Sb 206.833 {463} (Axial)	0.000 ppm	-2.298 %
Be 313.042 {108} (Radial)	0.000 ppm	-0.083 %
Co 228.616 {447} (Axial)	0.000 ppm	-0.276 %
Tl 190.856 {477} (Axial)	0.002 ppm	8.339 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.061 %
V 292.402 {115} (Radial)	-0.001 ppm	-10.316 %
Ti 334.941 {101} (Radial)	0.000 ppm	-0.324 %
Mo 202.030 {467} (Axial)	0.000 ppm	0.859 %
B 249.678 {135} (Radial)	0.006 ppm	2.926 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.826 %
Si 251.611 {134} (Axial)	0.001 ppm	0.513 %
Sn 189.989 {477} (Axial)	-0.001 ppm	-2.946 %
S 182.034 {485} (Axial)	0.006 ppm	0.552 %
In 230.606 {446} (Axial)	100.255 %	
Y 360.073 {94} (Radial)	99.339 %	
Y 360.073 {94} (Axial)	99.311 %	
Y 224.306 {450} (Axial)	100.708 %	

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Sample Type UNKNOWN Analysis Date 5/31/2015 10:07:54 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.002 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Se 196.090 {472} (Axial)	-0.003 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.001 ppm
Al 308.215 {109} (Radial)	0.006 ppm
Fe 259.940 {130} (Radial)	0.007 ppm
Fe 271.441 {124} (Radial)	0.004 ppm
Li 670.784 {50} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.014 ppm
Ca 373.690 {90} (Radial)	0.011 ppm
Mg 279.079 {121} (Radial)	0.006 ppm
K 766.490 {44} (Radial)	0.095 ppm
Na 589.592 {57} (Radial)	0.396 ppm
Na 818.326 {41} (Radial)	0.231 ppm
Sb 206.833 {463} (Axial)	-0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	-0.002 ppm
Ti 334.941 {101} (Radial)	0.000 ppm

Basic sample report

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	Concentration average
Mo 202.030 {467} (Axial)	0.000 ppm
B 249.678 {135} (Radial)	0.001 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.010 ppm
Sn 189.989 {477} (Axial)	0.001 ppm
S 182.034 {485} (Axial)	0.502 ppm
In 230.606 {446} (Axial)	98.519 %
Y 360.073 {94} (Radial)	99.391 %
Y 360.073 {94} (Axial)	99.628 %
Y 224.306 {450} (Axial)	100.182 %

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Sample Type UNKNOWN Analysis Date 5/31/2015 10:12:38 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	1.096 ppm
Ba 233.527 {445} (Axial)	1.137 ppm
Cd 228.802 {447} (Axial)	1.127 ppm
Cr 267.716 {126} (Axial)	1.109 ppm
Pb 220.353 {453} (Axial)	1.163 ppm
Se 196.090 {472} (Axial)	1.165 ppm
Ag 328.068 {103} (Axial)	1.130 ppm
Cu 324.754 {104} (Radial)	1.092 ppm
Ni 231.604 {446} (Axial)	1.107 ppm
Zn 206.200 {463} (Axial)	1.077 ppm
Al 308.215 {109} (Radial)	1.091 ppm
Fe 259.940 {130} (Radial)	1.093 ppm
Fe 271.441 {124} (Radial)	1.249 ppm
Li 670.784 {50} (Radial)	1.078 ppm
Ca 317.933 {106} (Radial)	10.895 ppm
Ca 373.690 {90} (Radial)	11.605 ppm
Mg 279.079 {121} (Radial)	10.970 ppm
K 766.490 {44} (Radial)	11.017 ppm
Na 589.592 {57} (Radial)	10.617 ppm
Na 818.326 {41} (Radial)	11.295 ppm
Sb 206.833 {463} (Axial)	1.119 ppm
Be 313.042 {108} (Radial)	1.142 ppm
Co 228.616 {447} (Axial)	1.114 ppm
Tl 190.856 {477} (Axial)	1.169 ppm
Mn 257.610 {131} (Axial)	1.095 ppm
V 292.402 {115} (Radial)	1.124 ppm
Ti 334.941 {101} (Radial)	1.072 ppm
Mo 202.030 {467} (Axial)	1.049 ppm
B 249.678 {135} (Radial)	1.093 ppm
Sr 421.552 {80} (Radial)	1.095 ppm
Si 251.611 {134} (Axial)	1.089 ppm
Sn 189.989 {477} (Axial)	1.058 ppm
S 182.034 {485} (Axial)	0.568 ppm
In 230.606 {446} (Axial)	91.044 %
Y 360.073 {94} (Radial)	98.217 %
Y 360.073 {94} (Axial)	95.732 %

	Concentration average
Y 224.306 {450} (Axial)	97.041 %

LCSD WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:17:05 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	1.053 ppm
Ba 233.527 {445} (Axial)	1.105 ppm
Cd 228.802 {447} (Axial)	1.087 ppm
Cr 267.716 {126} (Axial)	1.083 ppm
Pb 220.353 {453} (Axial)	1.122 ppm
Se 196.090 {472} (Axial)	1.113 ppm
Ag 328.068 {103} (Axial)	1.091 ppm
Cu 324.754 {104} (Radial)	1.059 ppm
Ni 231.604 {446} (Axial)	1.076 ppm
Zn 206.200 {463} (Axial)	1.054 ppm
Al 308.215 {109} (Radial)	1.038 ppm
Fe 259.940 {130} (Radial)	1.073 ppm
Fe 271.441 {124} (Radial)	1.274 ppm
Li 670.784 {50} (Radial)	1.046 ppm
Ca 317.933 {106} (Radial)	10.608 ppm
Ca 373.690 {90} (Radial)	11.306 ppm
Mg 279.079 {121} (Radial)	10.629 ppm
K 766.490 {44} (Radial)	10.690 ppm
Na 589.592 {57} (Radial)	10.300 ppm
Na 818.326 {41} (Radial)	10.962 ppm
Sb 206.833 {463} (Axial)	1.078 ppm
Be 313.042 {108} (Radial)	1.110 ppm
Co 228.616 {447} (Axial)	1.085 ppm
Tl 190.856 {477} (Axial)	1.129 ppm
Mn 257.610 {131} (Axial)	1.066 ppm
V 292.402 {115} (Radial)	1.099 ppm
Ti 334.941 {101} (Radial)	1.041 ppm
Mo 202.030 {467} (Axial)	1.027 ppm
B 249.678 {135} (Radial)	1.069 ppm
Sr 421.552 {80} (Radial)	1.059 ppm
Si 251.611 {134} (Axial)	1.056 ppm
Sn 189.989 {477} (Axial)	1.027 ppm
S 182.034 {485} (Axial)	0.620 ppm
In 230.606 {446} (Axial)	91.370 %
Y 360.073 {94} (Radial)	98.182 %
Y 360.073 {94} (Axial)	95.866 %
Y 224.306 {450} (Axial)	97.845 %

L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:21:32 PM

Dilution Factor 10

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	0.016 ppm
Ba 233.527 {445} (Axial)	0.039 ppm
Cd 228.802 {447} (Axial)	-0.002 ppm
Cr 267.716 {126} (Axial)	-0.014 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	0.041 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	-0.006 ppm
Ni 231.604 {446} (Axial)	0.006 ppm
Zn 206.200 {463} (Axial)	0.027 ppm
Al 308.215 {109} (Radial)	0.327 ppm
Fe 259.940 {130} (Radial)	0.054 ppm
Fe 271.441 {124} (Radial)	0.337 ppm
Li 670.784 {50} (Radial)	0.260 ppm
Ca 317.933 {106} (Radial)	1,048.051 ppm
Ca 373.690 {90} (Radial)	1,124.085 ppm
Mg 279.079 {121} (Radial)	1,018.346 ppm
K 766.490 {44} (Radial)	12.873 ppm
Na 589.592 {57} (Radial)	4,432.688 ppm
Na 818.326 {41} (Radial)	5,223.609 ppm
Sb 206.833 {463} (Axial)	0.005 ppm
Be 313.042 {108} (Radial)	0.001 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	0.021 ppm
Mn 257.610 {131} (Axial)	0.631 ppm
V 292.402 {115} (Radial)	0.004 ppm
Ti 334.941 {101} (Radial)	0.028 ppm
Mo 202.030 {467} (Axial)	0.020 ppm
B 249.678 {135} (Radial)	0.452 ppm
Sr 421.552 {80} (Radial)	22.591 ppm
Si 251.611 {134} (Axial)	20.580 ppm
Sn 189.989 {477} (Axial)	-0.013 ppm
S 182.034 {485} (Axial)	1,329.165 ppm
In 230.606 {446} (Axial)	75.084 %
Y 360.073 {94} (Radial)	92.691 %
Y 360.073 {94} (Axial)	82.864 %
Y 224.306 {450} (Axial)	86.678 %

SD L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:26:19 PM

Dilution Factor 50

	Concentration average
As 189.042 {478} (Axial)	0.081 ppm
Ba 233.527 {445} (Axial)	0.043 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cr 267.716 {126} (Axial)	-0.021 ppm
Pb 220.353 {453} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	-0.055 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.030 ppm
Ni 231.604 {446} (Axial)	-0.015 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Zn 206.200 {463} (Axial)	0.142 ppm
Al 308.215 {109} (Radial)	0.528 ppm
Fe 259.940 {130} (Radial)	0.038 ppm
Fe 271.441 {124} (Radial)	3.556 ppm
Li 670.784 {50} (Radial)	0.247 ppm
Ca 317.933 {106} (Radial)	1,114.896 ppm
Ca 373.690 {90} (Radial)	1,180.859 ppm
Mg 279.079 {121} (Radial)	1,038.404 ppm
K 766.490 {44} (Radial)	13.013 ppm
Na 589.592 {57} (Radial)	4,985.620 ppm
Na 818.326 {41} (Radial)	5,386.078 ppm
Sb 206.833 {463} (Axial)	-0.023 ppm
Be 313.042 {108} (Radial)	-0.005 ppm
Co 228.616 {447} (Axial)	-0.012 ppm
Tl 190.856 {477} (Axial)	-0.057 ppm
Mn 257.610 {131} (Axial)	0.664 ppm
V 292.402 {115} (Radial)	-0.036 ppm
Ti 334.941 {101} (Radial)	0.001 ppm
Mo 202.030 {467} (Axial)	0.042 ppm
B 249.678 {135} (Radial)	0.709 ppm
Sr 421.552 {80} (Radial)	23.184 ppm
Si 251.611 {134} (Axial)	20.303 ppm
Sn 189.989 {477} (Axial)	0.017 ppm
S 182.034 {485} (Axial)	1,300.898 ppm
In 230.606 {446} (Axial)	87.706 %
Y 360.073 {94} (Radial)	96.228 %
Y 360.073 {94} (Axial)	92.807 %
Y 224.306 {450} (Axial)	96.176 %

MS L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:30:58 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	1.125 ppm
Ba 233.527 {445} (Axial)	1.094 ppm
Cd 228.802 {447} (Axial)	1.139 ppm
Cr 267.716 {126} (Axial)	1.074 ppm
Pb 220.353 {453} (Axial)	1.125 ppm
Se 196.090 {472} (Axial)	1.196 ppm
Ag 328.068 {103} (Axial)	1.206 ppm
Cu 324.754 {104} (Radial)	1.036 ppm
Ni 231.604 {446} (Axial)	1.088 ppm
Zn 206.200 {463} (Axial)	1.082 ppm
Al 308.215 {109} (Radial)	1.240 ppm
Fe 259.940 {130} (Radial)	1.065 ppm
Fe 271.441 {124} (Radial)	1.688 ppm
Li 670.784 {50} (Radial)	1.278 ppm
Ca 317.933 {106} (Radial)	1,050.332 ppm
Ca 373.690 {90} (Radial)	1,124.390 ppm
Mg 279.079 {121} (Radial)	1,020.394 ppm
K 766.490 {44} (Radial)	22.912 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Na 589.592 {57} (Radial)	4,283.986 ppm
Na 818.326 {41} (Radial)	5,161.791 ppm
Sb 206.833 {463} (Axial)	1.103 ppm
Be 313.042 {108} (Radial)	1.068 ppm
Co 228.616 {447} (Axial)	1.113 ppm
Tl 190.856 {477} (Axial)	0.973 ppm
Mn 257.610 {131} (Axial)	1.691 ppm
V 292.402 {115} (Radial)	1.062 ppm
Ti 334.941 {101} (Radial)	1.048 ppm
Mo 202.030 {467} (Axial)	1.016 ppm
B 249.678 {135} (Radial)	1.369 ppm
Sr 421.552 {80} (Radial)	23.198 ppm
Si 251.611 {134} (Axial)	21.327 ppm
Sn 189.989 {477} (Axial)	0.951 ppm
S 182.034 {485} (Axial)	1,310.074 ppm
In 230.606 {446} (Axial)	76.086 %
Y 360.073 {94} (Radial)	92.412 %
Y 360.073 {94} (Axial)	83.383 %
Y 224.306 {450} (Axial)	88.644 %

MSD L766887-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:35:42 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	1.198 ppm
Ba 233.527 {445} (Axial)	1.114 ppm
Cd 228.802 {447} (Axial)	1.163 ppm
Cr 267.716 {126} (Axial)	1.129 ppm
Pb 220.353 {453} (Axial)	1.134 ppm
Se 196.090 {472} (Axial)	1.231 ppm
Ag 328.068 {103} (Axial)	1.241 ppm
Cu 324.754 {104} (Radial)	1.075 ppm
Ni 231.604 {446} (Axial)	1.127 ppm
Zn 206.200 {463} (Axial)	1.120 ppm
Al 308.215 {109} (Radial)	1.161 ppm
Fe 259.940 {130} (Radial)	1.163 ppm
Fe 271.441 {124} (Radial)	1.475 ppm
Li 670.784 {50} (Radial)	1.282 ppm
Ca 317.933 {106} (Radial)	1,083.396 ppm
Ca 373.690 {90} (Radial)	1,146.521 ppm
Mg 279.079 {121} (Radial)	1,048.736 ppm
K 766.490 {44} (Radial)	23.375 ppm
Na 589.592 {57} (Radial)	4,234.335 ppm
Na 818.326 {41} (Radial)	5,185.741 ppm
Sb 206.833 {463} (Axial)	1.126 ppm
Be 313.042 {108} (Radial)	1.099 ppm
Co 228.616 {447} (Axial)	1.137 ppm
Tl 190.856 {477} (Axial)	1.098 ppm
Mn 257.610 {131} (Axial)	1.746 ppm
V 292.402 {115} (Radial)	1.091 ppm
Ti 334.941 {101} (Radial)	1.071 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Mo 202.030 {467} (Axial)	1.039 ppm
B 249.678 {135} (Radial)	1.346 ppm
Sr 421.552 {80} (Radial)	23.130 ppm
Si 251.611 {134} (Axial)	21.502 ppm
Sn 189.989 {477} (Axial)	0.995 ppm
S 182.034 {485} (Axial)	1,322.626 ppm
In 230.606 {446} (Axial)	76.622 %
Y 360.073 {94} (Radial)	90.796 %
Y 360.073 {94} (Axial)	84.067 %
Y 224.306 {450} (Axial)	89.702 %

L766887-02 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:40:26 PM

Dilution Factor 10

	Concentration average
As 189.042 {478} (Axial)	0.069 ppm
Ba 233.527 {445} (Axial)	0.043 ppm
Cd 228.802 {447} (Axial)	0.001 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.057 ppm
Se 196.090 {472} (Axial)	0.016 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cu 324.754 {104} (Radial)	-0.008 ppm
Ni 231.604 {446} (Axial)	0.003 ppm
Zn 206.200 {463} (Axial)	0.016 ppm
Al 308.215 {109} (Radial)	-0.050 ppm
Fe 259.940 {130} (Radial)	0.014 ppm
Fe 271.441 {124} (Radial)	0.083 ppm
Li 670.784 {50} (Radial)	0.253 ppm
Ca 317.933 {106} (Radial)	973.914 ppm
Ca 373.690 {90} (Radial)	1,029.923 ppm
Mg 279.079 {121} (Radial)	1,137.629 ppm
K 766.490 {44} (Radial)	9.589 ppm
Na 589.592 {57} (Radial)	4,408.857 ppm
Na 818.326 {41} (Radial)	5,516.142 ppm
Sb 206.833 {463} (Axial)	-0.010 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Co 228.616 {447} (Axial)	0.007 ppm
Tl 190.856 {477} (Axial)	-0.021 ppm
Mn 257.610 {131} (Axial)	1.429 ppm
V 292.402 {115} (Radial)	-0.027 ppm
Ti 334.941 {101} (Radial)	0.018 ppm
Mo 202.030 {467} (Axial)	0.040 ppm
B 249.678 {135} (Radial)	0.509 ppm
Sr 421.552 {80} (Radial)	20.021 ppm
Si 251.611 {134} (Axial)	17.589 ppm
Sn 189.989 {477} (Axial)	0.009 ppm
S 182.034 {485} (Axial)	1,541.950 ppm
In 230.606 {446} (Axial)	77.795 %
Y 360.073 {94} (Radial)	90.648 %
Y 360.073 {94} (Axial)	84.804 %

	Concentration average
Y 224.306 {450} (Axial)	92.601 %

L766887-03 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:45:11 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.004 ppm
Ba 233.527 {445} (Axial)	0.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	-0.003 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cu 324.754 {104} (Radial)	0.003 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Al 308.215 {109} (Radial)	0.035 ppm
Fe 259.940 {130} (Radial)	0.002 ppm
Fe 271.441 {124} (Radial)	0.010 ppm
Li 670.784 {50} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.288 ppm
Ca 373.690 {90} (Radial)	0.301 ppm
Mg 279.079 {121} (Radial)	0.029 ppm
K 766.490 {44} (Radial)	0.053 ppm
Na 589.592 {57} (Radial)	0.532 ppm
Na 818.326 {41} (Radial)	0.317 ppm
Sb 206.833 {463} (Axial)	0.001 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	-0.003 ppm
Ti 334.941 {101} (Radial)	0.001 ppm
Mo 202.030 {467} (Axial)	-0.001 ppm
B 249.678 {135} (Radial)	0.022 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.054 ppm
Sn 189.989 {477} (Axial)	-0.001 ppm
S 182.034 {485} (Axial)	0.098 ppm
In 230.606 {446} (Axial)	102.527 %
Y 360.073 {94} (Radial)	96.163 %
Y 360.073 {94} (Axial)	101.706 %
Y 224.306 {450} (Axial)	107.702 %

L766887-04 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 10:49:54 PM

Dilution Factor 10

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	0.006 ppm
Ba 233.527 {445} (Axial)	0.041 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Pb 220.353 {453} (Axial)	0.052 ppm
Se 196.090 {472} (Axial)	-0.022 ppm
Ag 328.068 {103} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	-0.027 ppm
Ni 231.604 {446} (Axial)	0.010 ppm
Zn 206.200 {463} (Axial)	0.021 ppm
Al 308.215 {109} (Radial)	0.303 ppm
Fe 259.940 {130} (Radial)	0.026 ppm
Fe 271.441 {124} (Radial)	-0.282 ppm
Li 670.784 {50} (Radial)	0.248 ppm
Ca 317.933 {106} (Radial)	970.592 ppm
Ca 373.690 {90} (Radial)	1,023.298 ppm
Mg 279.079 {121} (Radial)	1,133.652 ppm
K 766.490 {44} (Radial)	9.347 ppm
Na 589.592 {57} (Radial)	4,469.646 ppm
Na 818.326 {41} (Radial)	5,451.957 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Co 228.616 {447} (Axial)	0.006 ppm
Tl 190.856 {477} (Axial)	-0.017 ppm
Mn 257.610 {131} (Axial)	1.418 ppm
V 292.402 {115} (Radial)	0.008 ppm
Ti 334.941 {101} (Radial)	0.004 ppm
Mo 202.030 {467} (Axial)	0.033 ppm
B 249.678 {135} (Radial)	0.445 ppm
Sr 421.552 {80} (Radial)	19.664 ppm
Si 251.611 {134} (Axial)	17.288 ppm
Sn 189.989 {477} (Axial)	-0.003 ppm
S 182.034 {485} (Axial)	1,523.927 ppm
In 230.606 {446} (Axial)	78.400 %
Y 360.073 {94} (Radial)	89.914 %
Y 360.073 {94} (Axial)	85.218 %
Y 224.306 {450} (Axial)	93.741 %

CCV 15E05137

Sample Type QC Analysis Date 5/31/2015 10:54:38 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	1.937 ppm	96.852 %
Ba 233.527 {445} (Axial)	0.508 ppm	101.652 %
Cd 228.802 {447} (Axial)	0.508 ppm	101.634 %
Cr 267.716 {126} (Axial)	1.042 ppm	104.159 %
Pb 220.353 {453} (Axial)	0.515 ppm	102.996 %
Se 196.090 {472} (Axial)	1.970 ppm	98.485 %
Ag 328.068 {103} (Axial)	1.020 ppm	101.970 %
Cu 324.754 {104} (Radial)	1.948 ppm	97.393 %
Ni 231.604 {446} (Axial)	2.059 ppm	102.966 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Zn 206.200 {463} (Axial)	3.126 ppm	104.184 %
Al 308.215 {109} (Radial)	10.046 ppm	100.461 %
Fe 259.940 {130} (Radial)	10.259 ppm	102.594 %
Fe 271.441 {124} (Radial)	11.524 ppm	115.244 %
Li 670.784 {50} (Radial)	1.363 ppm	90.847 %
Ca 317.933 {106} (Radial)	51.934 ppm	103.867 %
Ca 373.690 {90} (Radial)	54.473 ppm	108.947 %
Mg 279.079 {121} (Radial)	10.277 ppm	102.767 %
K 766.490 {44} (Radial)	48.005 ppm	96.011 %
Na 589.592 {57} (Radial)	45.927 ppm	91.854 %
Na 818.326 {41} (Radial)	49.309 ppm	98.618 %
Sb 206.833 {463} (Axial)	1.915 ppm	95.750 %
Be 313.042 {108} (Radial)	0.201 ppm	100.544 %
Co 228.616 {447} (Axial)	1.025 ppm	102.521 %
Tl 190.856 {477} (Axial)	1.910 ppm	95.523 %
Mn 257.610 {131} (Axial)	1.020 ppm	101.974 %
V 292.402 {115} (Radial)	1.013 ppm	101.330 %
Ti 334.941 {101} (Radial)	0.999 ppm	99.885 %
Mo 202.030 {467} (Axial)	0.466 ppm	93.212 %
B 249.678 {135} (Radial)	1.965 ppm	98.263 %
Sr 421.552 {80} (Radial)	0.959 ppm	95.891 %
Si 251.611 {134} (Axial)	1.852 ppm	92.622 %
Sn 189.989 {477} (Axial)	1.888 ppm	94.412 %
S 182.034 {485} (Axial)	4.588 ppm	91.768 %
In 230.606 {446} (Axial)	90.277 %	
Y 360.073 {94} (Radial)	94.021 %	
Y 360.073 {94} (Axial)	94.073 %	
Y 224.306 {450} (Axial)	101.848 %	

CCB 15E05148

Sample Type QC Analysis Date 5/31/2015 10:59:00 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.001 ppm	5.071 %
Ba 233.527 {445} (Axial)	0.000 ppm	1.246 %
Cd 228.802 {447} (Axial)	0.000 ppm	-1.533 %
Cr 267.716 {126} (Axial)	0.000 ppm	0.342 %
Pb 220.353 {453} (Axial)	0.000 ppm	-1.004 %
Se 196.090 {472} (Axial)	-0.005 ppm	-26.290 %
Ag 328.068 {103} (Axial)	0.000 ppm	3.379 %
Cu 324.754 {104} (Radial)	-0.001 ppm	-2.597 %
Ni 231.604 {446} (Axial)	0.000 ppm	-0.572 %
Zn 206.200 {463} (Axial)	0.000 ppm	-0.231 %
Al 308.215 {109} (Radial)	0.016 ppm	16.224 %
Fe 259.940 {130} (Radial)	-0.001 ppm	-0.522 %
Fe 271.441 {124} (Radial)	-0.040 ppm	-39.941 %
Li 670.784 {50} (Radial)	0.000 ppm	0.984 %
Ca 317.933 {106} (Radial)	0.002 ppm	0.208 %
Ca 373.690 {90} (Radial)	0.007 ppm	0.707 %
Mg 279.079 {121} (Radial)	0.004 ppm	0.408 %
K 766.490 {44} (Radial)	0.064 ppm	6.372 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	0.057 ppm	5.710 %
Na 818.326 {41} (Radial)	0.021 ppm	2.054 %
Sb 206.833 {463} (Axial)	-0.001 ppm	-2.889 %
Be 313.042 {108} (Radial)	0.000 ppm	-0.146 %
Co 228.616 {447} (Axial)	0.000 ppm	1.477 %
Tl 190.856 {477} (Axial)	0.000 ppm	-0.440 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.315 %
V 292.402 {115} (Radial)	-0.002 ppm	-18.665 %
Ti 334.941 {101} (Radial)	-0.001 ppm	-5.193 %
Mo 202.030 {467} (Axial)	0.000 ppm	-8.683 %
B 249.678 {135} (Radial)	0.004 ppm	2.040 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.654 %
Si 251.611 {134} (Axial)	0.000 ppm	-0.048 %
Sn 189.989 {477} (Axial)	0.001 ppm	2.680 %
S 182.034 {485} (Axial)	0.001 ppm	0.123 %
In 230.606 {446} (Axial)	104.937 %	
Y 360.073 {94} (Radial)	97.262 %	
Y 360.073 {94} (Axial)	102.529 %	
Y 224.306 {450} (Axial)	109.028 %	

L766918-01 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:03:43 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.009 ppm
Ba 233.527 {445} (Axial)	0.043 ppm
Cd 228.802 {447} (Axial)	-0.003 ppm
Cr 267.716 {126} (Axial)	-0.002 ppm
Pb 220.353 {453} (Axial)	0.016 ppm
Se 196.090 {472} (Axial)	0.014 ppm
Ag 328.068 {103} (Axial)	0.004 ppm
Cu 324.754 {104} (Radial)	-0.002 ppm
Ni 231.604 {446} (Axial)	-0.001 ppm
Zn 206.200 {463} (Axial)	0.006 ppm
Al 308.215 {109} (Radial)	0.063 ppm
Fe 259.940 {130} (Radial)	0.005 ppm
Fe 271.441 {124} (Radial)	0.025 ppm
Li 670.784 {50} (Radial)	0.157 ppm
Ca 317.933 {106} (Radial)	579.774 ppm
Ca 373.690 {90} (Radial)	626.245 ppm
Mg 279.079 {121} (Radial)	471.955 ppm
K 766.490 {44} (Radial)	10.228 ppm
Na 589.592 {57} (Radial)	1,048.870 ppm
Na 818.326 {41} (Radial)	1,886.213 ppm
Sb 206.833 {463} (Axial)	0.001 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.005 ppm
Mn 257.610 {131} (Axial)	0.164 ppm
V 292.402 {115} (Radial)	-0.003 ppm
Ti 334.941 {101} (Radial)	-0.005 ppm

Basic sample report

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	Concentration average
Mo 202.030 {467} (Axial)	0.022 ppm
B 249.678 {135} (Radial)	0.407 ppm
Sr 421.552 {80} (Radial)	12.740 ppm
Si 251.611 {134} (Axial)	12.691 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,119.096 ppm
In 230.606 {446} (Axial)	63.241 %
Y 360.073 {94} (Radial)	83.216 %
Y 360.073 {94} (Axial)	73.351 %
Y 224.306 {450} (Axial)	80.423 %

L766918-03 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:08:37 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.011 ppm
Ba 233.527 {445} (Axial)	0.052 ppm
Cd 228.802 {447} (Axial)	-0.004 ppm
Cr 267.716 {126} (Axial)	-0.002 ppm
Pb 220.353 {453} (Axial)	0.020 ppm
Se 196.090 {472} (Axial)	0.028 ppm
Ag 328.068 {103} (Axial)	0.006 ppm
Cu 324.754 {104} (Radial)	-0.003 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.014 ppm
Al 308.215 {109} (Radial)	0.076 ppm
Fe 259.940 {130} (Radial)	0.008 ppm
Fe 271.441 {124} (Radial)	0.022 ppm
Li 670.784 {50} (Radial)	0.193 ppm
Ca 317.933 {106} (Radial)	726.281 ppm
Ca 373.690 {90} (Radial)	787.977 ppm
Mg 279.079 {121} (Radial)	756.720 ppm
K 766.490 {44} (Radial)	12.760 ppm
Na 589.592 {57} (Radial)	1,198.778 ppm
Na 818.326 {41} (Radial)	3,027.490 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
Mn 257.610 {131} (Axial)	0.200 ppm
V 292.402 {115} (Radial)	0.002 ppm
Ti 334.941 {101} (Radial)	-0.013 ppm
Mo 202.030 {467} (Axial)	0.013 ppm
B 249.678 {135} (Radial)	0.333 ppm
Sr 421.552 {80} (Radial)	17.460 ppm
Si 251.611 {134} (Axial)	13.101 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,171.820 ppm
In 230.606 {446} (Axial)	55.811 %
Y 360.073 {94} (Radial)	78.621 %
Y 360.073 {94} (Axial)	67.537 %

Basic sample report

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	Concentration average
Y 224.306 {450} (Axial)	70.822 %

L766918-05 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:13:30 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.005 ppm
Ba 233.527 {445} (Axial)	0.062 ppm
Cd 228.802 {447} (Axial)	-0.003 ppm
Cr 267.716 {126} (Axial)	-0.003 ppm
Pb 220.353 {453} (Axial)	0.043 ppm
Se 196.090 {472} (Axial)	-0.001 ppm
Ag 328.068 {103} (Axial)	0.004 ppm
Cu 324.754 {104} (Radial)	-0.004 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Al 308.215 {109} (Radial)	0.052 ppm
Fe 259.940 {130} (Radial)	0.019 ppm
Fe 271.441 {124} (Radial)	0.067 ppm
Li 670.784 {50} (Radial)	0.113 ppm
Ca 317.933 {106} (Radial)	610.460 ppm
Ca 373.690 {90} (Radial)	658.029 ppm
Mg 279.079 {121} (Radial)	164.312 ppm
K 766.490 {44} (Radial)	11.760 ppm
Na 589.592 {57} (Radial)	82.808 ppm
Na 818.326 {41} (Radial)	94.626 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.002 ppm
Tl 190.856 {477} (Axial)	-0.002 ppm
Mn 257.610 {131} (Axial)	0.423 ppm
V 292.402 {115} (Radial)	0.006 ppm
Ti 334.941 {101} (Radial)	-0.001 ppm
Mo 202.030 {467} (Axial)	0.017 ppm
B 249.678 {135} (Radial)	0.157 ppm
Sr 421.552 {80} (Radial)	10.903 ppm
Si 251.611 {134} (Axial)	33.890 ppm
Sn 189.989 {477} (Axial)	-0.001 ppm
S 182.034 {485} (Axial)	631.634 ppm
In 230.606 {446} (Axial)	74.237 %
Y 360.073 {94} (Radial)	88.226 %
Y 360.073 {94} (Axial)	83.756 %
Y 224.306 {450} (Axial)	86.444 %

L766918-07 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:18:15 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	0.008 ppm
Ba 233.527 {445} (Axial)	0.043 ppm
Cd 228.802 {447} (Axial)	-0.005 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.041 ppm
Se 196.090 {472} (Axial)	0.029 ppm
Ag 328.068 {103} (Axial)	0.007 ppm
Cu 324.754 {104} (Radial)	-0.004 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Zn 206.200 {463} (Axial)	0.004 ppm
Al 308.215 {109} (Radial)	0.029 ppm
Fe 259.940 {130} (Radial)	0.016 ppm
Fe 271.441 {124} (Radial)	-0.077 ppm
Li 670.784 {50} (Radial)	0.423 ppm
Ca 317.933 {106} (Radial)	749.210 ppm
Ca 373.690 {90} (Radial)	828.567 ppm
Mg 279.079 {121} (Radial)	839.632 ppm
K 766.490 {44} (Radial)	42.162 ppm
Na 589.592 {57} (Radial)	1,092.298 ppm
Na 818.326 {41} (Radial)	2,176.231 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.003 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
Mn 257.610 {131} (Axial)	0.430 ppm
V 292.402 {115} (Radial)	0.034 ppm
Ti 334.941 {101} (Radial)	-0.014 ppm
Mo 202.030 {467} (Axial)	0.048 ppm
B 249.678 {135} (Radial)	1.236 ppm
Sr 421.552 {80} (Radial)	16.863 ppm
Si 251.611 {134} (Axial)	31.069 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,053.239 ppm
In 230.606 {446} (Axial)	56.909 %
Y 360.073 {94} (Radial)	82.097 %
Y 360.073 {94} (Axial)	68.658 %
Y 224.306 {450} (Axial)	71.033 %

L767115-03 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:23:08 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.042 ppm
Ba 233.527 {445} (Axial)	0.052 ppm
Cd 228.802 {447} (Axial)	-0.005 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.049 ppm
Se 196.090 {472} (Axial)	0.005 ppm
Ag 328.068 {103} (Axial)	0.007 ppm
Cu 324.754 {104} (Radial)	-0.006 ppm
Ni 231.604 {446} (Axial)	0.005 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Zn 206.200 {463} (Axial)	0.006 ppm
Al 308.215 {109} (Radial)	0.085 ppm
Fe 259.940 {130} (Radial)	0.414 ppm
Fe 271.441 {124} (Radial)	0.449 ppm
Li 670.784 {50} (Radial)	0.648 ppm
Ca 317.933 {106} (Radial)	894.442 ppm
Ca 373.690 {90} (Radial)	1,001.152 ppm
Mg 279.079 {121} (Radial)	1,079.272 ppm
K 766.490 {44} (Radial)	16.880 ppm
Na 589.592 {57} (Radial)	1,183.707 ppm
Na 818.326 {41} (Radial)	3,093.733 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.016 ppm
Tl 190.856 {477} (Axial)	-0.013 ppm
Mn 257.610 {131} (Axial)	2.156 ppm
V 292.402 {115} (Radial)	0.003 ppm
Ti 334.941 {101} (Radial)	-0.021 ppm
Mo 202.030 {467} (Axial)	0.051 ppm
B 249.678 {135} (Radial)	1.487 ppm
Sr 421.552 {80} (Radial)	18.710 ppm
Si 251.611 {134} (Axial)	38.293 ppm
Sn 189.989 {477} (Axial)	-0.002 ppm
S 182.034 {485} (Axial)	1,068.603 ppm
In 230.606 {446} (Axial)	53.124 %
Y 360.073 {94} (Radial)	79.396 %
Y 360.073 {94} (Axial)	65.075 %
Y 224.306 {450} (Axial)	66.974 %

L767115-04 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:28:09 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.044 ppm
Ba 233.527 {445} (Axial)	0.052 ppm
Cd 228.802 {447} (Axial)	-0.006 ppm
Cr 267.716 {126} (Axial)	-0.003 ppm
Pb 220.353 {453} (Axial)	0.050 ppm
Se 196.090 {472} (Axial)	0.003 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cu 324.754 {104} (Radial)	-0.007 ppm
Ni 231.604 {446} (Axial)	0.004 ppm
Zn 206.200 {463} (Axial)	0.005 ppm
Al 308.215 {109} (Radial)	-0.003 ppm
Fe 259.940 {130} (Radial)	0.442 ppm
Fe 271.441 {124} (Radial)	0.434 ppm
Li 670.784 {50} (Radial)	0.654 ppm
Ca 317.933 {106} (Radial)	909.832 ppm
Ca 373.690 {90} (Radial)	1,013.412 ppm
Mg 279.079 {121} (Radial)	1,093.411 ppm
K 766.490 {44} (Radial)	16.970 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Na 589.592 {57} (Radial)	1,142.508 ppm
Na 818.326 {41} (Radial)	3,112.669 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.016 ppm
Tl 190.856 {477} (Axial)	-0.023 ppm
Mn 257.610 {131} (Axial)	2.189 ppm
V 292.402 {115} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	-0.020 ppm
Mo 202.030 {467} (Axial)	0.053 ppm
B 249.678 {135} (Radial)	1.528 ppm
Sr 421.552 {80} (Radial)	18.931 ppm
Si 251.611 {134} (Axial)	38.752 ppm
Sn 189.989 {477} (Axial)	-0.001 ppm
S 182.034 {485} (Axial)	1,080.073 ppm
In 230.606 {446} (Axial)	52.039 %
Y 360.073 {94} (Radial)	78.737 %
Y 360.073 {94} (Axial)	64.643 %
Y 224.306 {450} (Axial)	65.598 %

L767115-08 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:33:11 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.015 ppm
Ba 233.527 {445} (Axial)	0.062 ppm
Cd 228.802 {447} (Axial)	-0.007 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.034 ppm
Se 196.090 {472} (Axial)	0.020 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cu 324.754 {104} (Radial)	-0.008 ppm
Ni 231.604 {446} (Axial)	-0.004 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Al 308.215 {109} (Radial)	0.073 ppm
Fe 259.940 {130} (Radial)	0.006 ppm
Fe 271.441 {124} (Radial)	0.028 ppm
Li 670.784 {50} (Radial)	0.448 ppm
Ca 317.933 {106} (Radial)	1,035.442 ppm
Ca 373.690 {90} (Radial)	1,156.331 ppm
Mg 279.079 {121} (Radial)	1,158.598 ppm
K 766.490 {44} (Radial)	24.687 ppm
Na 589.592 {57} (Radial)	1,125.604 ppm
Na 818.326 {41} (Radial)	5,012.258 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	-0.006 ppm
Mn 257.610 {131} (Axial)	0.094 ppm
V 292.402 {115} (Radial)	0.009 ppm
Ti 334.941 {101} (Radial)	-0.023 ppm

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Mo 202.030 {467} (Axial)	0.029 ppm
B 249.678 {135} (Radial)	0.410 ppm
Sr 421.552 {80} (Radial)	23.814 ppm
Si 251.611 {134} (Axial)	22.853 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	1,120.652 ppm
In 230.606 {446} (Axial)	49.637 %
Y 360.073 {94} (Radial)	76.184 %
Y 360.073 {94} (Axial)	60.675 %
Y 224.306 {450} (Axial)	65.047 %

L767115-06 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:38:21 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.009 ppm
Ba 233.527 {445} (Axial)	0.062 ppm
Cd 228.802 {447} (Axial)	-0.005 ppm
Cr 267.716 {126} (Axial)	-0.005 ppm
Pb 220.353 {453} (Axial)	0.028 ppm
Se 196.090 {472} (Axial)	0.009 ppm
Ag 328.068 {103} (Axial)	0.008 ppm
Cu 324.754 {104} (Radial)	-0.002 ppm
Ni 231.604 {446} (Axial)	0.006 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Al 308.215 {109} (Radial)	0.108 ppm
Fe 259.940 {130} (Radial)	0.018 ppm
Fe 271.441 {124} (Radial)	-0.028 ppm
Li 670.784 {50} (Radial)	0.390 ppm
Ca 317.933 {106} (Radial)	924.077 ppm
Ca 373.690 {90} (Radial)	1,017.228 ppm
Mg 279.079 {121} (Radial)	974.065 ppm
K 766.490 {44} (Radial)	18.690 ppm
Na 589.592 {57} (Radial)	1,094.970 ppm
Na 818.326 {41} (Radial)	4,415.911 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.003 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
Mn 257.610 {131} (Axial)	0.669 ppm
V 292.402 {115} (Radial)	0.002 ppm
Ti 334.941 {101} (Radial)	-0.016 ppm
Mo 202.030 {467} (Axial)	0.036 ppm
B 249.678 {135} (Radial)	0.536 ppm
Sr 421.552 {80} (Radial)	20.516 ppm
Si 251.611 {134} (Axial)	17.688 ppm
Sn 189.989 {477} (Axial)	-0.001 ppm
S 182.034 {485} (Axial)	1,169.466 ppm
In 230.606 {446} (Axial)	52.081 %
Y 360.073 {94} (Radial)	75.796 %
Y 360.073 {94} (Axial)	63.892 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
Y 224.306 {450} (Axial)	68.206 %

MS L767115-06 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:43:22 PM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	1.401 ppm
Ba 233.527 {445} (Axial)	1.129 ppm
Cd 228.802 {447} (Axial)	1.478 ppm
Cr 267.716 {126} (Axial)	1.058 ppm
Pb 220.353 {453} (Axial)	1.176 ppm
Se 196.090 {472} (Axial)	1.574 ppm
Ag 328.068 {103} (Axial)	1.637 ppm
Cu 324.754 {104} (Radial)	1.164 ppm
Ni 231.604 {446} (Axial)	1.129 ppm
Zn 206.200 {463} (Axial)	1.023 ppm
Al 308.215 {109} (Radial)	1.198 ppm
Fe 259.940 {130} (Radial)	1.056 ppm
Fe 271.441 {124} (Radial)	1.203 ppm
Li 670.784 {50} (Radial)	1.651 ppm
Ca 317.933 {106} (Radial)	897.375 ppm
Ca 373.690 {90} (Radial)	994.433 ppm
Mg 279.079 {121} (Radial)	947.918 ppm
K 766.490 {44} (Radial)	30.911 ppm
Na 589.592 {57} (Radial)	1,073.478 ppm
Na 818.326 {41} (Radial)	4,362.272 ppm
Sb 206.833 {463} (Axial)	1.319 ppm
Be 313.042 {108} (Radial)	1.090 ppm
Co 228.616 {447} (Axial)	1.168 ppm
Tl 190.856 {477} (Axial)	1.055 ppm
Mn 257.610 {131} (Axial)	1.685 ppm
V 292.402 {115} (Radial)	1.102 ppm
Ti 334.941 {101} (Radial)	1.035 ppm
Mo 202.030 {467} (Axial)	1.039 ppm
B 249.678 {135} (Radial)	1.636 ppm
Sr 421.552 {80} (Radial)	21.318 ppm
Si 251.611 {134} (Axial)	18.619 ppm
Sn 189.989 {477} (Axial)	0.916 ppm
S 182.034 {485} (Axial)	1,130.598 ppm
In 230.606 {446} (Axial)	51.064 %
Y 360.073 {94} (Radial)	77.537 %
Y 360.073 {94} (Axial)	63.897 %
Y 224.306 {450} (Axial)	66.225 %

MSD L767115-06 WG791807

Sample Type UNKNOWN Analysis Date 5/31/2015 11:48:18 PM

Dilution Factor 1

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average
As 189.042 {478} (Axial)	1.383 ppm
Ba 233.527 {445} (Axial)	1.123 ppm
Cd 228.802 {447} (Axial)	1.452 ppm
Cr 267.716 {126} (Axial)	1.054 ppm
Pb 220.353 {453} (Axial)	1.187 ppm
Se 196.090 {472} (Axial)	1.534 ppm
Ag 328.068 {103} (Axial)	1.627 ppm
Cu 324.754 {104} (Radial)	1.166 ppm
Ni 231.604 {446} (Axial)	1.139 ppm
Zn 206.200 {463} (Axial)	1.040 ppm
Al 308.215 {109} (Radial)	1.240 ppm
Fe 259.940 {130} (Radial)	1.087 ppm
Fe 271.441 {124} (Radial)	1.236 ppm
Li 670.784 {50} (Radial)	1.655 ppm
Ca 317.933 {106} (Radial)	902.713 ppm
Ca 373.690 {90} (Radial)	1,000.810 ppm
Mg 279.079 {121} (Radial)	952.660 ppm
K 766.490 {44} (Radial)	31.055 ppm
Na 589.592 {57} (Radial)	1,041.569 ppm
Na 818.326 {41} (Radial)	4,393.844 ppm
Sb 206.833 {463} (Axial)	1.291 ppm
Be 313.042 {108} (Radial)	1.076 ppm
Co 228.616 {447} (Axial)	1.173 ppm
Tl 190.856 {477} (Axial)	1.059 ppm
Mn 257.610 {131} (Axial)	1.696 ppm
V 292.402 {115} (Radial)	1.090 ppm
Ti 334.941 {101} (Radial)	1.030 ppm
Mo 202.030 {467} (Axial)	1.038 ppm
B 249.678 {135} (Radial)	1.645 ppm
Sr 421.552 {80} (Radial)	21.454 ppm
Si 251.611 {134} (Axial)	18.739 ppm
Sn 189.989 {477} (Axial)	0.913 ppm
S 182.034 {485} (Axial)	1,150.610 ppm
In 230.606 {446} (Axial)	51.597 %
Y 360.073 {94} (Radial)	77.075 %
Y 360.073 {94} (Axial)	63.579 %
Y 224.306 {450} (Axial)	67.431 %

CCV 15E05137

Sample Type QC Analysis Date 5/31/2015 11:53:11 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	1.937 ppm	96.866 %
Ba 233.527 {445} (Axial)	0.509 ppm	101.842 %
Cd 228.802 {447} (Axial)	0.508 ppm	101.669 %
Cr 267.716 {126} (Axial)	1.053 ppm	105.292 %
Pb 220.353 {453} (Axial)	0.523 ppm	104.522 %
Se 196.090 {472} (Axial)	1.957 ppm	97.852 %
Ag 328.068 {103} (Axial)	1.021 ppm	102.054 %
Cu 324.754 {104} (Radial)	1.954 ppm	97.696 %
Ni 231.604 {446} (Axial)	2.070 ppm	103.493 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Zn 206.200 {463} (Axial)	3.176 ppm	105.862 %
Al 308.215 {109} (Radial)	9.915 ppm	99.147 %
Fe 259.940 {130} (Radial)	10.253 ppm	102.534 %
Fe 271.441 {124} (Radial)	11.351 ppm	113.514 %
Li 670.784 {50} (Radial)	1.367 ppm	91.136 %
Ca 317.933 {106} (Radial)	51.894 ppm	103.788 %
Ca 373.690 {90} (Radial)	54.388 ppm	108.776 %
Mg 279.079 {121} (Radial)	10.161 ppm	101.612 %
K 766.490 {44} (Radial)	47.700 ppm	95.400 %
Na 589.592 {57} (Radial)	39.444 ppm	78.889 %
Na 818.326 {41} (Radial)	50.268 ppm	100.536 %
Sb 206.833 {463} (Axial)	1.884 ppm	94.220 %
Be 313.042 {108} (Radial)	0.202 ppm	100.993 %
Co 228.616 {447} (Axial)	1.036 ppm	103.644 %
Tl 190.856 {477} (Axial)	1.931 ppm	96.534 %
Mn 257.610 {131} (Axial)	1.027 ppm	102.689 %
V 292.402 {115} (Radial)	1.016 ppm	101.564 %
Ti 334.941 {101} (Radial)	0.993 ppm	99.331 %
Mo 202.030 {467} (Axial)	0.471 ppm	94.114 %
B 249.678 {135} (Radial)	1.987 ppm	99.342 %
Sr 421.552 {80} (Radial)	0.954 ppm	95.447 %
Si 251.611 {134} (Axial)	1.856 ppm	92.819 %
Sn 189.989 {477} (Axial)	1.900 ppm	94.993 %
S 182.034 {485} (Axial)	4.610 ppm	92.191 %
In 230.606 {446} (Axial)	89.012 %	
Y 360.073 {94} (Radial)	92.116 %	
Y 360.073 {94} (Axial)	92.684 %	
Y 224.306 {450} (Axial)	101.265 %	

CCB 15E05148

Sample Type QC Analysis Date 5/31/2015 11:57:34 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.000 ppm	0.323 %
Ba 233.527 {445} (Axial)	0.000 ppm	1.312 %
Cd 228.802 {447} (Axial)	0.000 ppm	-3.765 %
Cr 267.716 {126} (Axial)	0.000 ppm	2.647 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-13.680 %
Se 196.090 {472} (Axial)	-0.004 ppm	-20.739 %
Ag 328.068 {103} (Axial)	0.000 ppm	3.780 %
Cu 324.754 {104} (Radial)	0.003 ppm	14.858 %
Ni 231.604 {446} (Axial)	-0.001 ppm	-3.458 %
Zn 206.200 {463} (Axial)	0.000 ppm	0.031 %
Al 308.215 {109} (Radial)	0.027 ppm	27.452 %
Fe 259.940 {130} (Radial)	0.002 ppm	1.577 %
Fe 271.441 {124} (Radial)	0.036 ppm	35.825 %
Li 670.784 {50} (Radial)	0.000 ppm	0.250 %
Ca 317.933 {106} (Radial)	0.018 ppm	1.790 %
Ca 373.690 {90} (Radial)	0.014 ppm	1.428 %
Mg 279.079 {121} (Radial)	0.046 ppm	4.621 %
K 766.490 {44} (Radial)	0.112 ppm	11.245 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	0.645 ppm	64.463 %
Na 818.326 {41} (Radial)	0.228 ppm	22.825 %
Sb 206.833 {463} (Axial)	0.001 ppm	2.776 %
Be 313.042 {108} (Radial)	0.000 ppm	-0.450 %
Co 228.616 {447} (Axial)	0.000 ppm	1.389 %
Tl 190.856 {477} (Axial)	0.001 ppm	5.184 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.276 %
V 292.402 {115} (Radial)	-0.002 ppm	-20.727 %
Ti 334.941 {101} (Radial)	0.000 ppm	4.012 %
Mo 202.030 {467} (Axial)	0.000 ppm	-0.716 %
B 249.678 {135} (Radial)	0.009 ppm	4.428 %
Sr 421.552 {80} (Radial)	0.000 ppm	2.317 %
Si 251.611 {134} (Axial)	0.001 ppm	0.525 %
Sn 189.989 {477} (Axial)	0.000 ppm	2.293 %
S 182.034 {485} (Axial)	0.021 ppm	2.076 %
In 230.606 {446} (Axial)	103.343 %	
Y 360.073 {94} (Radial)	92.991 %	
Y 360.073 {94} (Axial)	100.677 %	
Y 224.306 {450} (Axial)	108.811 %	

CCVLL 15E05148

Sample Type QC Analysis Date 6/1/2015 12:02:16 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.023 ppm	116.204 %
Ba 233.527 {445} (Axial)	0.006 ppm	116.676 %
Cd 228.802 {447} (Axial)	0.005 ppm	101.978 %
Cr 267.716 {126} (Axial)	0.011 ppm	108.468 %
Pb 220.353 {453} (Axial)	0.007 ppm	137.876 %
Se 196.090 {472} (Axial)	0.016 ppm	80.643 %
Ag 328.068 {103} (Axial)	0.011 ppm	112.417 %
Cu 324.754 {104} (Radial)	0.018 ppm	89.227 %
Ni 231.604 {446} (Axial)	0.023 ppm	115.766 %
Zn 206.200 {463} (Axial)	0.060 ppm	119.159 %
Al 308.215 {109} (Radial)	0.130 ppm	130.331 %
Fe 259.940 {130} (Radial)	0.115 ppm	114.551 %
Fe 271.441 {124} (Radial)	0.120 ppm	119.629 %
Li 670.784 {50} (Radial)	0.016 ppm	105.250 %
Ca 317.933 {106} (Radial)	1.165 ppm	116.547 %
Ca 373.690 {90} (Radial)	1.214 ppm	121.363 %
Mg 279.079 {121} (Radial)	1.178 ppm	117.818 %
K 766.490 {44} (Radial)	1.127 ppm	112.743 %
Na 589.592 {57} (Radial)	1.436 ppm	143.594 %
Na 818.326 {41} (Radial)	1.364 ppm	136.399 %
Sb 206.833 {463} (Axial)	0.018 ppm	89.758 %
Be 313.042 {108} (Radial)	0.002 ppm	104.574 %
Co 228.616 {447} (Axial)	0.011 ppm	111.265 %
Tl 190.856 {477} (Axial)	0.022 ppm	112.101 %
Mn 257.610 {131} (Axial)	0.012 ppm	117.933 %
V 292.402 {115} (Radial)	0.018 ppm	91.247 %
Ti 334.941 {101} (Radial)	0.054 ppm	108.201 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Mo 202.030 {467} (Axial)	0.005 ppm	91.653 %
B 249.678 {135} (Radial)	0.058 ppm	116.538 %
Sr 421.552 {80} (Radial)	0.011 ppm	106.531 %
Si 251.611 {134} (Axial)	0.052 ppm	103.279 %
Sn 189.989 {477} (Axial)	0.053 ppm	106.373 %
S 182.034 {485} (Axial)	0.996 ppm	99.617 %
In 230.606 {446} (Axial)	102.115 %	
Y 360.073 {94} (Radial)	93.127 %	
Y 360.073 {94} (Axial)	100.733 %	
Y 224.306 {450} (Axial)	109.099 %	

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Sample Type UNKNOWN Analysis Date 6/1/2015 12:21:41 AM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	0.358 ppm
Ba 233.527 {445} (Axial)	0.097 ppm
Cd 228.802 {447} (Axial)	-0.008 ppm
Cr 267.716 {126} (Axial)	0.056 ppm
Pb 220.353 {453} (Axial)	-0.010 ppm
Se 196.090 {472} (Axial)	-0.163 ppm
Ag 328.068 {103} (Axial)	-0.009 ppm
Cu 324.754 {104} (Radial)	0.084 ppm
Ni 231.604 {446} (Axial)	0.041 ppm
Zn 206.200 {463} (Axial)	0.509 ppm
Al 308.215 {109} (Radial)	0.732 ppm
Fe 259.940 {130} (Radial)	1.513 ppm
Fe 271.441 {124} (Radial)	-0.801 ppm
Li 670.784 {50} (Radial)	0.037 ppm
Ca 317.933 {106} (Radial)	4.649 ppm
Ca 373.690 {90} (Radial)	5.661 ppm
Mg 279.079 {121} (Radial)	2.281 ppm
K 766.490 {44} (Radial)	4.725 ppm
Na 589.592 {57} (Radial)	91.037 ppm
Na 818.326 {41} (Radial)	34.966 ppm
Sb 206.833 {463} (Axial)	-0.038 ppm
Be 313.042 {108} (Radial)	-0.003 ppm
Co 228.616 {447} (Axial)	0.014 ppm
Tl 190.856 {477} (Axial)	0.215 ppm
Mn 257.610 {131} (Axial)	0.012 ppm
V 292.402 {115} (Radial)	0.100 ppm
Ti 334.941 {101} (Radial)	0.081 ppm
Mo 202.030 {467} (Axial)	-0.031 ppm
B 249.678 {135} (Radial)	-0.383 ppm
Sr 421.552 {80} (Radial)	0.011 ppm
Si 251.611 {134} (Axial)	2.057 ppm
Sn 189.989 {477} (Axial)	-0.037 ppm
S 182.034 {485} (Axial)	4.949 ppm
In 230.606 {446} (Axial)	102.044 %
Y 360.073 {94} (Radial)	92.393 %
Y 360.073 {94} (Axial)	100.336 %

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Na 589.592 {57} (Radial)	1.023 ppm	102.301 %
Na 818.326 {41} (Radial)	0.883 ppm	88.340 %
Sb 206.833 {463} (Axial)	0.020 ppm	99.578 %
Be 313.042 {108} (Radial)	0.002 ppm	106.176 %
Co 228.616 {447} (Axial)	0.010 ppm	102.281 %
Tl 190.856 {477} (Axial)	0.018 ppm	88.833 %
Mn 257.610 {131} (Axial)	0.012 ppm	115.640 %
V 292.402 {115} (Radial)	0.018 ppm	91.689 %
Ti 334.941 {101} (Radial)	0.055 ppm	109.839 %
Mo 202.030 {467} (Axial)	0.005 ppm	94.871 %
B 249.678 {135} (Radial)	0.047 ppm	93.523 %
Sr 421.552 {80} (Radial)	0.011 ppm	107.735 %
Si 251.611 {134} (Axial)	0.067 ppm	133.545 %
Sn 189.989 {477} (Axial)	0.050 ppm	100.822 %
S 182.034 {485} (Axial)	0.899 ppm	89.920 %
In 230.606 {446} (Axial)	100.452 %	
Y 360.073 {94} (Radial)	96.063 %	
Y 360.073 {94} (Axial)	98.760 %	
Y 224.306 {450} (Axial)	104.177 %	

ICSA 15E05138

Sample Type QC Analysis Date 6/1/2015 8:05:25 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	-0.005 ppm	
Ba 233.527 {445} (Axial)	0.005 ppm	
Cd 228.802 {447} (Axial)	-0.003 ppm	
Cr 267.716 {126} (Axial)	-0.001 ppm	
Pb 220.353 {453} (Axial)	0.073 ppm	
Se 196.090 {472} (Axial)	0.057 ppm	
Ag 328.068 {103} (Axial)	0.002 ppm	
Cu 324.754 {104} (Radial)	0.001 ppm	
Ni 231.604 {446} (Axial)	0.006 ppm	
Zn 206.200 {463} (Axial)	0.008 ppm	
Al 308.215 {109} (Radial)	519.692 ppm	103.938 %
Fe 259.940 {130} (Radial)	186.707 ppm	
Fe 271.441 {124} (Radial)	220.707 ppm	110.353 %
Li 670.784 {50} (Radial)	0.018 ppm	
Ca 317.933 {106} (Radial)	511.165 ppm	
Ca 373.690 {90} (Radial)	552.472 ppm	110.494 %
Mg 279.079 {121} (Radial)	557.490 ppm	111.498 %
K 766.490 {44} (Radial)	0.086 ppm	
Na 589.592 {57} (Radial)	0.040 ppm	
Na 818.326 {41} (Radial)	0.040 ppm	
Sb 206.833 {463} (Axial)	0.008 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.001 ppm	
Tl 190.856 {477} (Axial)	0.006 ppm	
Mn 257.610 {131} (Axial)	-0.025 ppm	
V 292.402 {115} (Radial)	0.002 ppm	
Ti 334.941 {101} (Radial)	-0.007 ppm	

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Mo 202.030 {467} (Axial)	-0.002 ppm	
B 249.678 {135} (Radial)	0.009 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.005 ppm	
Sn 189.989 {477} (Axial)	0.002 ppm	
S 182.034 {485} (Axial)	0.008 ppm	
In 230.606 {446} (Axial)	67.850 %	
Y 360.073 {94} (Radial)	89.180 %	
Y 360.073 {94} (Axial)	81.323 %	
Y 224.306 {450} (Axial)	87.376 %	

ICSAB 15E05139

Sample Type QC Analysis Date 6/1/2015 8:10:05 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
As 189.042 {478} (Axial)	0.486 ppm	97.260 %
Ba 233.527 {445} (Axial)	0.495 ppm	99.045 %
Cd 228.802 {447} (Axial)	1.070 ppm	106.987 %
Cr 267.716 {126} (Axial)	0.488 ppm	97.572 %
Pb 220.353 {453} (Axial)	1.130 ppm	112.967 %
Se 196.090 {472} (Axial)	0.586 ppm	117.167 %
Ag 328.068 {103} (Axial)	1.217 ppm	121.702 %
Cu 324.754 {104} (Radial)	0.517 ppm	103.387 %
Ni 231.604 {446} (Axial)	1.053 ppm	105.277 %
Zn 206.200 {463} (Axial)	0.939 ppm	93.948 %
Al 308.215 {109} (Radial)	517.819 ppm	103.564 %
Fe 259.940 {130} (Radial)	186.085 ppm	
Fe 271.441 {124} (Radial)	220.625 ppm	110.312 %
Li 670.784 {50} (Radial)	0.017 ppm	
Ca 317.933 {106} (Radial)	509.218 ppm	
Ca 373.690 {90} (Radial)	550.864 ppm	110.173 %
Mg 279.079 {121} (Radial)	555.656 ppm	111.131 %
K 766.490 {44} (Radial)	0.059 ppm	
Na 589.592 {57} (Radial)	0.046 ppm	
Na 818.326 {41} (Radial)	0.127 ppm	
Sb 206.833 {463} (Axial)	0.529 ppm	105.893 %
Be 313.042 {108} (Radial)	0.513 ppm	102.678 %
Co 228.616 {447} (Axial)	0.531 ppm	106.205 %
Tl 190.856 {477} (Axial)	0.500 ppm	100.057 %
Mn 257.610 {131} (Axial)	0.470 ppm	94.085 %
V 292.402 {115} (Radial)	0.502 ppm	100.376 %
Ti 334.941 {101} (Radial)	0.505 ppm	101.068 %
Mo 202.030 {467} (Axial)	0.421 ppm	84.125 %
B 249.678 {135} (Radial)	0.992 ppm	99.162 %
Sr 421.552 {80} (Radial)	0.000 ppm	
Si 251.611 {134} (Axial)	1.023 ppm	
Sn 189.989 {477} (Axial)	0.429 ppm	
S 182.034 {485} (Axial)	0.002 ppm	
In 230.606 {446} (Axial)	67.184 %	
Y 360.073 {94} (Radial)	89.260 %	
Y 360.073 {94} (Axial)	81.061 %	

Basic sample report

6/1/2015 9:36:39 AM

	Concentration average	Recovery Percentage 1
Y 224.306 {450} (Axial)	86.711 %	

carryover

Sample Type UNKNOWN Analysis Date 6/1/2015 8:14:34 AM

Dilution Factor 1

	Concentration average
As 189.042 {478} (Axial)	-0.001 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.002 ppm
Se 196.090 {472} (Axial)	0.002 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.002 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Al 308.215 {109} (Radial)	0.027 ppm
Fe 259.940 {130} (Radial)	0.012 ppm
Fe 271.441 {124} (Radial)	-0.033 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.039 ppm
Ca 373.690 {90} (Radial)	0.040 ppm
Mg 279.079 {121} (Radial)	0.034 ppm
K 766.490 {44} (Radial)	0.020 ppm
Na 589.592 {57} (Radial)	-0.004 ppm
Na 818.326 {41} (Radial)	-0.163 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
V 292.402 {115} (Radial)	-0.002 ppm
Ti 334.941 {101} (Radial)	0.001 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
B 249.678 {135} (Radial)	0.003 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Si 251.611 {134} (Axial)	0.012 ppm
Sn 189.989 {477} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.002 ppm
In 230.606 {446} (Axial)	101.101 %
Y 360.073 {94} (Radial)	94.372 %
Y 360.073 {94} (Axial)	97.510 %
Y 224.306 {450} (Axial)	104.202 %

Basic sample report

6/1/2015 6:01:49 AM

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carryover

Sample Type UNKNOWN Analysis Date 5/29/2015 7:28:32 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.071 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.053 ppm
Ca 373.690 {90} (Radial)	0.055 ppm
Fe 259.940 {130} (Radial)	0.053 ppm
Fe 271.441 {124} (Radial)	0.157 ppm
K 766.490 {44} (Radial)	-0.016 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.052 ppm
Na 589.592 {57} (Radial)	-0.005 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.002 ppm
V 292.402 {115} (Radial)	-0.001 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)	-0.001 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
As 189.042 {478} (Axial)	0.002 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.001 ppm
S 182.034 {485} (Axial)	0.001 ppm
Si 251.611 {134} (Axial)	0.004 ppm
Sb 206.833 {463} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	0.006 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	-0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	104.272 %
Y 224.306 {450} (Axial)	101.148 %
In 230.606 {446} (Axial)	101.084 %
Y 360.073 {94} (Axial)	101.743 %
Na 818.326 {41} (Radial)	0.216 ppm
Zn 206.200 {463} (Axial)	0.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.004 ppm

CALBLK

Sample Type BLK Analysis Date 5/29/2015 7:33:06 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.000 %
Y 224.306 {450} (Axial)	100.000 %
In 230.606 {446} (Axial)	100.000 %
Y 360.073 {94} (Axial)	100.000 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD1 15E05148

Sample Type STD Analysis Date 5/29/2015 7:37:40 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.125 ppm
B 249.678 {135} (Radial)	0.047 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	1.011 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.105 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.988 ppm
Li 670.784 {50} (Radial)	0.016 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	1.069 ppm
Na 589.592 {57} (Radial)	1.003 ppm
Sr 421.552 {80} (Radial)	0.011 ppm
Ti 334.941 {101} (Radial)	0.052 ppm
V 292.402 {115} (Radial)	0.018 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	0.020 ppm
Pb 220.353 {453} (Axial)	0.004 ppm
Sn 189.989 {478} (Axial)	0.050 ppm
Tl 190.856 {477} (Axial)	0.019 ppm
As 189.042 {478} (Axial)	0.022 ppm
Ba 233.527 {445} (Axial)	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm
S 182.034 {485} (Axial)	0.928 ppm
Si 251.611 {134} (Axial)	0.045 ppm
Sb 206.833 {463} (Axial)	0.025 ppm
Se 196.090 {472} (Axial)	0.021 ppm
Ag 328.068 {103} (Axial)	0.010 ppm
Cr 267.716 {126} (Axial)	0.010 ppm
Mn 257.610 {131} (Axial)	0.010 ppm
Y 360.073 {94} (Radial)	102.471 %
Y 224.306 {450} (Axial)	99.621 %
In 230.606 {446} (Axial)	98.709 %
Y 360.073 {94} (Axial)	99.426 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.051 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	0.023 ppm

STD7 15E06233

Sample Type STD Analysis Date 5/29/2015 7:42:15 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.482 ppm
Be 313.042 {108} (Radial)	0.492 ppm
Ca 317.933 {106} (Radial)	0.490 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)	0.495 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.477 ppm
Sr 421.552 {80} (Radial)	0.499 ppm
Ti 334.941 {101} (Radial)	0.492 ppm
V 292.402 {115} (Radial)	0.489 ppm
Co 228.616 {447} (Axial)	0.466 ppm
Ni 231.604 {446} (Axial)	0.465 ppm
Pb 220.353 {453} (Axial)	0.485 ppm
Sn 189.989 {478} (Axial)	0.463 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Tl 190.856 {477} (Axial)	0.483 ppm
As 189.042 {478} (Axial)	0.464 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)	0.470 ppm
Sb 206.833 {463} (Axial)	0.483 ppm
Se 196.090 {472} (Axial)	0.479 ppm
Ag 328.068 {103} (Axial)	0.494 ppm
Cr 267.716 {126} (Axial)	0.489 ppm
Mn 257.610 {131} (Axial)	0.489 ppm
Y 360.073 {94} (Radial)	102.540 %
Y 224.306 {450} (Axial)	100.512 %
In 230.606 {446} (Axial)	98.987 %
Y 360.073 {94} (Axial)	99.102 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.469 ppm
Cd 228.802 {447} (Axial)	0.486 ppm
Cu 324.754 {104} (Radial)	0.491 ppm

STD2 15E06234

Sample Type STD Analysis Date 5/29/2015 7:46:40 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.969 ppm
Be 313.042 {108} (Radial)	0.983 ppm
Ca 317.933 {106} (Radial)	0.964 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.962 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.984 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.976 ppm
Ti 334.941 {101} (Radial)	0.976 ppm
V 292.402 {115} (Radial)	0.978 ppm
Co 228.616 {447} (Axial)	0.965 ppm
Ni 231.604 {446} (Axial)	0.962 ppm
Pb 220.353 {453} (Axial)	1.008 ppm
Sn 189.989 {478} (Axial)	0.962 ppm
Tl 190.856 {477} (Axial)	1.009 ppm
As 189.042 {478} (Axial)	0.962 ppm
Ba 233.527 {445} (Axial)	1.000 ppm
Mo 202.030 {467} (Axial)	0.984 ppm
S 182.034 {485} (Axial)	0.945 ppm
Si 251.611 {134} (Axial)	1.015 ppm
Sb 206.833 {463} (Axial)	1.008 ppm
Se 196.090 {472} (Axial)	1.011 ppm
Ag 328.068 {103} (Axial)	1.003 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cr 267.716 {126} (Axial)	0.988 ppm
Mn 257.610 {131} (Axial)	0.987 ppm
Y 360.073 {94} (Radial)	104.348 %
Y 224.306 {450} (Axial)	99.081 %
In 230.606 {446} (Axial)	96.341 %
Y 360.073 {94} (Axial)	98.448 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	1.000 ppm
Cd 228.802 {447} (Axial)	1.007 ppm
Cu 324.754 {104} (Radial)	0.970 ppm

STD3 15E05151

Sample Type STD Analysis Date 5/29/2015 7:51:02 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	2.020 ppm
Be 313.042 {108} (Radial)	2.011 ppm
Ca 317.933 {106} (Radial)	1.988 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	1.977 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	2.009 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	1.997 ppm
Sr 421.552 {80} (Radial)	2.012 ppm
Ti 334.941 {101} (Radial)	2.014 ppm
V 292.402 {115} (Radial)	2.014 ppm
Co 228.616 {447} (Axial)	2.026 ppm
Ni 231.604 {446} (Axial)	2.028 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	2.028 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	2.028 ppm
Ba 233.527 {445} (Axial)	2.047 ppm
Mo 202.030 {467} (Axial)	2.008 ppm
S 182.034 {485} (Axial)	2.025 ppm
Si 251.611 {134} (Axial)	2.335 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	2.009 ppm
Mn 257.610 {131} (Axial)	2.009 ppm
Y 360.073 {94} (Radial)	103.556 %
Y 224.306 {450} (Axial)	96.363 %
In 230.606 {446} (Axial)	92.751 %
Y 360.073 {94} (Axial)	96.109 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	2.008 ppm
Cd 228.802 {447} (Axial)	0.000 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cu 324.754 {104} (Radial)	2.017 ppm

STD4 15E05149

Sample Type STD Analysis Date 5/29/2015 7:55:22 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	10.572 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	10.005 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	10.008 ppm
Fe 271.441 {124} (Radial)	11.179 ppm
K 766.490 {44} (Radial)	10.293 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	10.671 ppm
Na 589.592 {57} (Radial)	10.002 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)	9.991 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	10.473 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	102.916 %
Y 224.306 {450} (Axial)	95.173 %
In 230.606 {446} (Axial)	90.727 %
Y 360.073 {94} (Axial)	94.720 %
Na 818.326 {41} (Radial)	10.706 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 15E06231

Sample Type STD Analysis Date 5/29/2015 7:59:54 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	246.824 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)	248.981 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	99.511 ppm
K 766.490 {44} (Radial)	50.275 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	248.401 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	49.907 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	101.270 %
Y 224.306 {450} (Axial)	87.413 %
In 230.606 {446} (Axial)	74.365 %
Y 360.073 {94} (Axial)	86.177 %
Na 818.326 {41} (Radial)	245.778 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 15E05150

Sample Type STD Analysis Date 5/29/2015 8:04:30 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	501.577 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)	500.509 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	200.186 ppm
K 766.490 {44} (Radial)	99.833 ppm
Li 670.784 {50} (Radial)	0.000 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	500.786 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)	104.392 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	98.572 %
Y 224.306 {450} (Axial)	81.911 %
In 230.606 {446} (Axial)	67.062 %
Y 360.073 {94} (Axial)	80.851 %
Na 818.326 {41} (Radial)	502.097 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

ICV 15E05136

Sample Type QC Analysis Date 5/29/2015 8:09:09 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.894 ppm	99.445 %
B 249.678 {135} (Radial)	0.950 ppm	94.022 %
Be 313.042 {108} (Radial)	0.960 ppm	95.822 %
Ca 317.933 {106} (Radial)	9.370 ppm	93.699 %
Ca 373.690 {90} (Radial)	10.345 ppm	103.034 %
Fe 259.940 {130} (Radial)	9.344 ppm	93.354 %
Fe 271.441 {124} (Radial)	10.367 ppm	104.043 %
K 766.490 {44} (Radial)	9.557 ppm	95.036 %
Li 670.784 {50} (Radial)	0.961 ppm	96.018 %
Mg 279.079 {121} (Radial)	9.909 ppm	98.130 %
Na 589.592 {57} (Radial)	9.193 ppm	93.110 %
Sr 421.552 {80} (Radial)	0.386 ppm	96.422 %
Ti 334.941 {101} (Radial)	0.958 ppm	95.765 %
V 292.402 {115} (Radial)	0.960 ppm	96.443 %
Co 228.616 {447} (Axial)	0.932 ppm	92.754 %
Ni 231.604 {446} (Axial)	0.928 ppm	92.502 %
Pb 220.353 {453} (Axial)	0.969 ppm	97.027 %
Sn 189.989 {478} (Axial)	0.933 ppm	93.112 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Tl 190.856 {477} (Axial)	0.947 ppm	94.630 %
As 189.042 {478} (Axial)	0.941 ppm	93.393 %
Ba 233.527 {445} (Axial)	0.958 ppm	95.439 %
Mo 202.030 {467} (Axial)	0.970 ppm	96.931 %
S 182.034 {485} (Axial)	9.044 ppm	90.526 %
Si 251.611 {134} (Axial)	0.856 ppm	85.411 %
Sb 206.833 {463} (Axial)	0.975 ppm	97.400 %
Se 196.090 {472} (Axial)	0.992 ppm	99.882 %
Ag 328.068 {103} (Axial)	0.978 ppm	97.701 %
Cr 267.716 {126} (Axial)	0.961 ppm	96.202 %
Mn 257.610 {131} (Axial)	0.949 ppm	95.583 %
Y 360.073 {94} (Radial)	105.307 %	
Y 224.306 {450} (Axial)	98.963 %	
In 230.606 {446} (Axial)	94.823 %	
Y 360.073 {94} (Axial)	98.357 %	
Na 818.326 {41} (Radial)	10.061 ppm	100.297 %
Zn 206.200 {463} (Axial)	0.938 ppm	93.773 %
Cd 228.802 {447} (Axial)	0.983 ppm	98.216 %
Cu 324.754 {104} (Radial)	0.954 ppm	95.552 %

ICB

Sample Type QC Analysis Date 5/29/2015 8:13:31 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.047 ppm	-52.556 %
B 249.678 {135} (Radial)	-0.006 ppm	-12.475 %
Be 313.042 {108} (Radial)	0.000 ppm	5.729 %
Ca 317.933 {106} (Radial)	0.002 ppm	2.312 %
Ca 373.690 {90} (Radial)	0.008 ppm	
Fe 259.940 {130} (Radial)	0.001 ppm	10.928 %
Fe 271.441 {124} (Radial)	0.006 ppm	
K 766.490 {44} (Radial)	0.003 ppm	9.808 %
Li 670.784 {50} (Radial)	0.000 ppm	-2.743 %
Mg 279.079 {121} (Radial)	0.012 ppm	-3.741 %
Na 589.592 {57} (Radial)	-0.002 ppm	-3.026 %
Sr 421.552 {80} (Radial)	0.000 ppm	-0.882 %
Ti 334.941 {101} (Radial)	0.002 ppm	24.209 %
V 292.402 {115} (Radial)	-0.003 ppm	-48.323 %
Co 228.616 {447} (Axial)	0.000 ppm	-5.158 %
Ni 231.604 {446} (Axial)	-0.001 ppm	-2.961 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-28.071 %
Sn 189.989 {478} (Axial)	-0.001 ppm	-8.933 %
Tl 190.856 {477} (Axial)	0.000 ppm	-24.390 %
As 189.042 {478} (Axial)	-0.005 ppm	-85.093 %
Ba 233.527 {445} (Axial)	0.000 ppm	-4.195 %
Mo 202.030 {467} (Axial)	0.001 ppm	10.265 %
S 182.034 {485} (Axial)	0.028 ppm	35.680 %
Si 251.611 {134} (Axial)	0.001 ppm	3.171 %
Sb 206.833 {463} (Axial)	0.005 ppm	46.657 %
Se 196.090 {472} (Axial)	0.001 ppm	26.783 %
Ag 328.068 {103} (Axial)	0.000 ppm	-2.598 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Cr 267.716 {126} (Axial)	0.000 ppm	-1.160 %
Mn 257.610 {131} (Axial)	0.000 ppm	0.498 %
Y 360.073 {94} (Radial)	106.123 %	
Y 224.306 {450} (Axial)	102.661 %	
In 230.606 {446} (Axial)	103.738 %	
Y 360.073 {94} (Axial)	103.499 %	
Na 818.326 {41} (Radial)	0.165 ppm	
Zn 206.200 {463} (Axial)	0.001 ppm	1.709 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.448 %
Cu 324.754 {104} (Radial)	0.005 ppm	0.597 %

ICVLL 15E05148

Sample Type QC Analysis Date 5/29/2015 8:18:08 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.105 ppm	110.373 %
B 249.678 {135} (Radial)	0.048 ppm	78.124 %
Be 313.042 {108} (Radial)	0.002 ppm	95.022 %
Ca 317.933 {106} (Radial)	0.963 ppm	96.561 %
Ca 373.690 {90} (Radial)	1.075 ppm	106.263 %
Fe 259.940 {130} (Radial)	0.099 ppm	97.390 %
Fe 271.441 {124} (Radial)	0.079 ppm	61.870 %
K 766.490 {44} (Radial)	0.933 ppm	93.653 %
Li 670.784 {50} (Radial)	0.016 ppm	106.752 %
Mg 279.079 {121} (Radial)	1.018 ppm	100.567 %
Na 589.592 {57} (Radial)	0.954 ppm	95.863 %
Sr 421.552 {80} (Radial)	0.010 ppm	99.834 %
Ti 334.941 {101} (Radial)	0.051 ppm	102.595 %
V 292.402 {115} (Radial)	0.024 ppm	126.325 %
Co 228.616 {447} (Axial)	0.009 ppm	91.745 %
Ni 231.604 {446} (Axial)	0.019 ppm	89.106 %
Pb 220.353 {453} (Axial)	0.003 ppm	60.056 %
Sn 189.989 {478} (Axial)	0.047 ppm	94.080 %
Tl 190.856 {477} (Axial)	0.020 ppm	95.930 %
As 189.042 {478} (Axial)	0.016 ppm	53.986 %
Ba 233.527 {445} (Axial)	0.005 ppm	98.015 %
Mo 202.030 {467} (Axial)	0.005 ppm	114.614 %
S 182.034 {485} (Axial)	0.912 ppm	92.208 %
Si 251.611 {134} (Axial)	0.043 ppm	85.238 %
Sb 206.833 {463} (Axial)	0.024 ppm	106.355 %
Se 196.090 {472} (Axial)	0.011 ppm	51.616 %
Ag 328.068 {103} (Axial)	0.010 ppm	98.263 %
Cr 267.716 {126} (Axial)	0.009 ppm	86.071 %
Mn 257.610 {131} (Axial)	0.010 ppm	103.082 %
Y 360.073 {94} (Radial)	106.880 %	
Y 224.306 {450} (Axial)	101.428 %	
In 230.606 {446} (Axial)	101.026 %	
Y 360.073 {94} (Axial)	101.960 %	
Na 818.326 {41} (Radial)	1.099 ppm	124.902 %
Zn 206.200 {463} (Axial)	0.050 ppm	98.973 %
Cd 228.802 {447} (Axial)	0.005 ppm	102.071 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Cu 324.754 {104} (Radial)	0.018 ppm	56.805 %

ICSA 15E05138

Sample Type QC Analysis Date 5/29/2015 8:22:45 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	483.482 ppm	97.426 %
B 249.678 {135} (Radial)	-0.048 ppm	-Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	-Infinity %
Ca 317.933 {106} (Radial)	430.306 ppm	86.819 %
Ca 373.690 {90} (Radial)	491.022 ppm	98.884 %
Fe 259.940 {130} (Radial)	167.123 ppm	84.298 %
Fe 271.441 {124} (Radial)	191.993 ppm	96.627 %
K 766.490 {44} (Radial)	0.023 ppm	Infinity %
Li 670.784 {50} (Radial)	0.007 ppm	Infinity %
Mg 279.079 {121} (Radial)	485.275 ppm	97.740 %
Na 589.592 {57} (Radial)	0.025 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.006 ppm	Infinity %
Ti 334.941 {101} (Radial)	-0.002 ppm	-Infinity %
V 292.402 {115} (Radial)	-0.001 ppm	Infinity %
Co 228.616 {447} (Axial)	0.000 ppm	-Infinity %
Ni 231.604 {446} (Axial)	-0.032 ppm	-Infinity %
Pb 220.353 {453} (Axial)	-0.035 ppm	-Infinity %
Sn 189.989 {478} (Axial)	0.002 ppm	
Tl 190.856 {477} (Axial)	-0.002 ppm	-Infinity %
As 189.042 {478} (Axial)	-0.033 ppm	-Infinity %
Ba 233.527 {445} (Axial)	0.001 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.006 ppm	-Infinity %
S 182.034 {485} (Axial)	-0.028 ppm	-Infinity %
Si 251.611 {134} (Axial)	0.000 ppm	-Infinity %
Sb 206.833 {463} (Axial)	-0.024 ppm	-Infinity %
Se 196.090 {472} (Axial)	0.017 ppm	Infinity %
Ag 328.068 {103} (Axial)	0.000 ppm	Infinity %
Cr 267.716 {126} (Axial)	0.002 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.009 ppm	-Infinity %
Y 360.073 {94} (Radial)	100.767 %	
Y 224.306 {450} (Axial)	86.766 %	
In 230.606 {446} (Axial)	74.264 %	
Y 360.073 {94} (Axial)	85.274 %	
Na 818.326 {41} (Radial)	0.051 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.006 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.002 ppm	-Infinity %
Cu 324.754 {104} (Radial)	0.010 ppm	Infinity %

ICSAB 15E05139

Sample Type QC Analysis Date 5/29/2015 8:27:19 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	483.747 ppm	97.272 %
B 249.678 {135} (Radial)	0.871 ppm	87.467 %
Be 313.042 {108} (Radial)	0.463 ppm	93.270 %
Ca 317.933 {106} (Radial)	429.633 ppm	86.546 %
Ca 373.690 {90} (Radial)	490.225 ppm	98.673 %
Fe 259.940 {130} (Radial)	166.905 ppm	84.047 %
Fe 271.441 {124} (Radial)	191.937 ppm	96.594 %
K 766.490 {44} (Radial)	0.010 ppm	Infinity %
Li 670.784 {50} (Radial)	0.007 ppm	Infinity %
Mg 279.079 {121} (Radial)	484.550 ppm	97.428 %
Na 589.592 {57} (Radial)	0.015 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.006 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.461 ppm	Infinity %
V 292.402 {115} (Radial)	0.459 ppm	91.665 %
Co 228.616 {447} (Axial)	0.467 ppm	92.950 %
Ni 231.604 {446} (Axial)	0.896 ppm	89.383 %
Pb 220.353 {453} (Axial)	0.922 ppm	91.186 %
Sn 189.989 {478} (Axial)	0.469 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.464 ppm	94.138 %
As 189.042 {478} (Axial)	0.458 ppm	90.500 %
Ba 233.527 {445} (Axial)	0.453 ppm	90.508 %
Mo 202.030 {467} (Axial)	0.438 ppm	87.663 %
S 182.034 {485} (Axial)	-0.009 ppm	
Si 251.611 {134} (Axial)	0.877 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.484 ppm	96.709 %
Se 196.090 {472} (Axial)	0.518 ppm	109.214 %
Ag 328.068 {103} (Axial)	1.093 ppm	109.294 %
Cr 267.716 {126} (Axial)	0.447 ppm	89.192 %
Mn 257.610 {131} (Axial)	0.442 ppm	87.897 %
Y 360.073 {94} (Radial)	100.468 %	
Y 224.306 {450} (Axial)	86.575 %	
In 230.606 {446} (Axial)	73.976 %	
Y 360.073 {94} (Axial)	85.990 %	
Na 818.326 {41} (Radial)	0.039 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.858 ppm	85.375 %
Cd 228.802 {447} (Axial)	1.031 ppm	102.770 %
Cu 324.754 {104} (Radial)	0.482 ppm	93.949 %

carryover

Sample Type UNKNOWN Analysis Date 5/29/2015 8:31:41 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.133 ppm
B 249.678 {135} (Radial)	-0.007 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.073 ppm
Ca 373.690 {90} (Radial)	0.070 ppm
Fe 259.940 {130} (Radial)	0.063 ppm
Fe 271.441 {124} (Radial)	0.093 ppm
K 766.490 {44} (Radial)	-0.014 ppm
Li 670.784 {50} (Radial)	0.002 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cu 324.754 {104} (Radial)	0.006 ppm

CCV

Sample Type QC Analysis Date 5/29/2015 9:27:14 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.619 ppm	96.443 %
B 249.678 {135} (Radial)	1.867 ppm	92.368 %
Be 313.042 {108} (Radial)	0.189 ppm	93.604 %
Ca 317.933 {106} (Radial)	45.639 ppm	
Ca 373.690 {90} (Radial)	50.701 ppm	100.275 %
Fe 259.940 {130} (Radial)	9.196 ppm	91.009 %
Fe 271.441 {124} (Radial)	10.263 ppm	102.543 %
K 766.490 {44} (Radial)	44.837 ppm	
Li 670.784 {50} (Radial)	1.374 ppm	91.576 %
Mg 279.079 {121} (Radial)	9.524 ppm	95.237 %
Na 589.592 {57} (Radial)	42.618 ppm	
Sr 421.552 {80} (Radial)	0.920 ppm	
Ti 334.941 {101} (Radial)	0.945 ppm	93.666 %
V 292.402 {115} (Radial)	0.952 ppm	93.972 %
Co 228.616 {447} (Axial)	0.935 ppm	93.587 %
Ni 231.604 {446} (Axial)	1.882 ppm	94.057 %
Pb 220.353 {453} (Axial)	0.479 ppm	95.797 %
Sn 189.989 {478} (Axial)	1.898 ppm	95.106 %
Tl 190.856 {477} (Axial)	1.896 ppm	94.708 %
As 189.042 {478} (Axial)	1.870 ppm	93.732 %
Ba 233.527 {445} (Axial)	0.465 ppm	92.925 %
Mo 202.030 {467} (Axial)	0.469 ppm	93.742 %
S 182.034 {485} (Axial)	4.476 ppm	89.602 %
Si 251.611 {134} (Axial)	1.680 ppm	84.394 %
Sb 206.833 {463} (Axial)	1.897 ppm	94.696 %
Se 196.090 {472} (Axial)	1.956 ppm	97.409 %
Ag 328.068 {103} (Axial)	0.962 ppm	96.879 %
Cr 267.716 {126} (Axial)	0.937 ppm	93.940 %
Mn 257.610 {131} (Axial)	0.929 ppm	93.072 %
Y 360.073 {94} (Radial)	102.846 %	
Y 224.306 {450} (Axial)	98.729 %	
In 230.606 {446} (Axial)	90.645 %	
Y 360.073 {94} (Axial)	96.725 %	
Na 818.326 {41} (Radial)	46.737 ppm	92.980 %
Zn 206.200 {463} (Axial)	2.793 ppm	93.178 %
Cd 228.802 {447} (Axial)	0.492 ppm	98.592 %
Cu 324.754 {104} (Radial)	1.847 ppm	91.619 %

CCB

Sample Type QC Analysis Date 5/29/2015 9:31:35 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.025 ppm	53.559 %
B 249.678 {135} (Radial)	-0.004 ppm	9.785 %
Be 313.042 {108} (Radial)	0.000 ppm	-17.290 %
Ca 317.933 {106} (Radial)	0.017 ppm	7.978 %
Ca 373.690 {90} (Radial)	0.015 ppm	
Fe 259.940 {130} (Radial)	0.006 ppm	28.859 %
Fe 271.441 {124} (Radial)	0.069 ppm	
K 766.490 {44} (Radial)	-0.024 ppm	-16.803 %
Li 670.784 {50} (Radial)	0.001 ppm	7.473 %
Mg 279.079 {121} (Radial)	0.013 ppm	0.933 %
Na 589.592 {57} (Radial)	-0.013 ppm	-4.788 %
Sr 421.552 {80} (Radial)	0.000 ppm	3.731 %
Ti 334.941 {101} (Radial)	0.002 ppm	26.747 %
V 292.402 {115} (Radial)	-0.003 ppm	-60.036 %
Co 228.616 {447} (Axial)	0.000 ppm	-0.504 %
Ni 231.604 {446} (Axial)	0.000 ppm	-2.594 %
Pb 220.353 {453} (Axial)	0.000 ppm	-69.231 %
Sn 189.989 {478} (Axial)	0.000 ppm	-1.558 %
Tl 190.856 {477} (Axial)	-0.003 ppm	-18.761 %
As 189.042 {478} (Axial)	-0.003 ppm	-23.516 %
Ba 233.527 {445} (Axial)	0.000 ppm	-3.855 %
Mo 202.030 {467} (Axial)	0.000 ppm	9.422 %
S 182.034 {485} (Axial)	0.007 ppm	12.116 %
Si 251.611 {134} (Axial)	0.000 ppm	0.428 %
Sb 206.833 {463} (Axial)	0.005 ppm	-0.467 %
Se 196.090 {472} (Axial)	0.001 ppm	40.365 %
Ag 328.068 {103} (Axial)	0.000 ppm	19.355 %
Cr 267.716 {126} (Axial)	0.000 ppm	-7.173 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.020 %
Y 360.073 {94} (Radial)	101.924 %	
Y 224.306 {450} (Axial)	102.973 %	
In 230.606 {446} (Axial)	103.057 %	
Y 360.073 {94} (Axial)	102.576 %	
Na 818.326 {41} (Radial)	0.009 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.195 %
Cd 228.802 {447} (Axial)	0.000 ppm	-0.597 %
Cu 324.754 {104} (Radial)	0.002 ppm	0.542 %

L766887-02 WG791803

Sample Type UNKNOWN Analysis Date 5/29/2015 9:36:12 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	0.243 ppm
B 249.678 {135} (Radial)	0.302 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	845.464 ppm
Ca 373.690 {90} (Radial)	923.006 ppm
Fe 259.940 {130} (Radial)	-0.056 ppm
Fe 271.441 {124} (Radial)	0.265 ppm
K 766.490 {44} (Radial)	9.180 ppm
Li 670.784 {50} (Radial)	0.254 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cr 267.716 {126} (Axial)	0.011 ppm
Mn 257.610 {131} (Axial)	1.191 ppm
Y 360.073 {94} (Radial)	97.367 %
Y 224.306 {450} (Axial)	88.935 %
In 230.606 {446} (Axial)	78.470 %
Y 360.073 {94} (Axial)	88.569 %
Na 818.326 {41} (Radial)	5,137.431 ppm
Zn 206.200 {463} (Axial)	0.002 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.094 ppm

BLANK WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 9:50:01 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.032 ppm
B 249.678 {135} (Radial)	-0.014 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	1.852 ppm
Ca 373.690 {90} (Radial)	1.990 ppm
Fe 259.940 {130} (Radial)	0.011 ppm
Fe 271.441 {124} (Radial)	0.105 ppm
K 766.490 {44} (Radial)	0.009 ppm
Li 670.784 {50} (Radial)	0.003 ppm
Mg 279.079 {121} (Radial)	0.111 ppm
Na 589.592 {57} (Radial)	0.111 ppm
Sr 421.552 {80} (Radial)	0.002 ppm
Ti 334.941 {101} (Radial)	0.003 ppm
V 292.402 {115} (Radial)	-0.003 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Sn 189.989 {478} (Axial)	-0.001 ppm
Tl 190.856 {477} (Axial)	0.005 ppm
As 189.042 {478} (Axial)	-0.002 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.157 ppm
Si 251.611 {134} (Axial)	0.009 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	-0.002 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.340 %
Y 224.306 {450} (Axial)	99.529 %
In 230.606 {446} (Axial)	97.623 %
Y 360.073 {94} (Axial)	100.232 %
Na 818.326 {41} (Radial)	0.257 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Cd 228.802 {447} (Axial)	0.000 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cu 324.754 {104} (Radial)	0.001 ppm

LCS WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 9:54:36 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	1.084 ppm
B 249.678 {135} (Radial)	1.003 ppm
Be 313.042 {108} (Radial)	1.010 ppm
Ca 317.933 {106} (Radial)	9.655 ppm
Ca 373.690 {90} (Radial)	10.392 ppm
Fe 259.940 {130} (Radial)	0.997 ppm
Fe 271.441 {124} (Radial)	1.305 ppm
K 766.490 {44} (Radial)	9.575 ppm
Li 670.784 {50} (Radial)	0.994 ppm
Mg 279.079 {121} (Radial)	10.230 ppm
Na 589.592 {57} (Radial)	9.230 ppm
Sr 421.552 {80} (Radial)	0.986 ppm
Ti 334.941 {101} (Radial)	0.950 ppm
V 292.402 {115} (Radial)	1.021 ppm
Co 228.616 {447} (Axial)	0.980 ppm
Ni 231.604 {446} (Axial)	0.984 ppm
Pb 220.353 {453} (Axial)	1.036 ppm
Sn 189.989 {478} (Axial)	0.974 ppm
Tl 190.856 {477} (Axial)	1.046 ppm
As 189.042 {478} (Axial)	0.977 ppm
Ba 233.527 {445} (Axial)	0.989 ppm
Mo 202.030 {467} (Axial)	0.966 ppm
S 182.034 {485} (Axial)	0.100 ppm
Si 251.611 {134} (Axial)	0.910 ppm
Sb 206.833 {463} (Axial)	1.005 ppm
Se 196.090 {472} (Axial)	1.034 ppm
Ag 328.068 {103} (Axial)	1.016 ppm
Cr 267.716 {126} (Axial)	1.010 ppm
Mn 257.610 {131} (Axial)	0.959 ppm
Y 360.073 {94} (Radial)	101.306 %
Y 224.306 {450} (Axial)	97.921 %
In 230.606 {446} (Axial)	92.474 %
Y 360.073 {94} (Axial)	98.213 %
Na 818.326 {41} (Radial)	10.309 ppm
Zn 206.200 {463} (Axial)	0.964 ppm
Cd 228.802 {447} (Axial)	1.035 ppm
Cu 324.754 {104} (Radial)	0.997 ppm

LCSD WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 9:58:58 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	1.185 ppm
B 249.678 {135} (Radial)	0.998 ppm
Be 313.042 {108} (Radial)	1.016 ppm
Ca 317.933 {106} (Radial)	9.728 ppm
Ca 373.690 {90} (Radial)	10.396 ppm
Fe 259.940 {130} (Radial)	1.015 ppm
Fe 271.441 {124} (Radial)	1.189 ppm
K 766.490 {44} (Radial)	9.670 ppm
Li 670.784 {50} (Radial)	1.002 ppm
Mg 279.079 {121} (Radial)	10.284 ppm
Na 589.592 {57} (Radial)	9.316 ppm
Sr 421.552 {80} (Radial)	0.995 ppm
Ti 334.941 {101} (Radial)	0.955 ppm
V 292.402 {115} (Radial)	1.029 ppm
Co 228.616 {447} (Axial)	0.983 ppm
Ni 231.604 {446} (Axial)	0.988 ppm
Pb 220.353 {453} (Axial)	1.047 ppm
Sn 189.989 {478} (Axial)	0.977 ppm
Tl 190.856 {477} (Axial)	1.054 ppm
As 189.042 {478} (Axial)	0.976 ppm
Ba 233.527 {445} (Axial)	0.993 ppm
Mo 202.030 {467} (Axial)	0.970 ppm
S 182.034 {485} (Axial)	0.041 ppm
Si 251.611 {134} (Axial)	0.911 ppm
Sb 206.833 {463} (Axial)	1.017 ppm
Se 196.090 {472} (Axial)	1.057 ppm
Ag 328.068 {103} (Axial)	1.018 ppm
Cr 267.716 {126} (Axial)	1.019 ppm
Mn 257.610 {131} (Axial)	0.960 ppm
Y 360.073 {94} (Radial)	99.511 %
Y 224.306 {450} (Axial)	97.059 %
In 230.606 {446} (Axial)	91.432 %
Y 360.073 {94} (Axial)	97.581 %
Na 818.326 {41} (Radial)	10.376 ppm
Zn 206.200 {463} (Axial)	0.969 ppm
Cd 228.802 {447} (Axial)	1.039 ppm
Cu 324.754 {104} (Radial)	1.007 ppm

L766887-01 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 10:03:21 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	1.187 ppm
B 249.678 {135} (Radial)	0.229 ppm
Be 313.042 {108} (Radial)	0.003 ppm
Ca 317.933 {106} (Radial)	965.834 ppm
Ca 373.690 {90} (Radial)	1,038.470 ppm
Fe 259.940 {130} (Radial)	0.066 ppm
Fe 271.441 {124} (Radial)	0.059 ppm
K 766.490 {44} (Radial)	12.160 ppm
Li 670.784 {50} (Radial)	0.263 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	970.024 ppm
Na 589.592 {57} (Radial)	3,246.388 ppm
Sr 421.552 {80} (Radial)	21.588 ppm
Ti 334.941 {101} (Radial)	0.061 ppm
V 292.402 {115} (Radial)	-0.006 ppm
Co 228.616 {447} (Axial)	0.041 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	0.005 ppm
Sn 189.989 {478} (Axial)	-0.024 ppm
Tl 190.856 {477} (Axial)	-0.013 ppm
As 189.042 {478} (Axial)	-0.040 ppm
Ba 233.527 {445} (Axial)	0.037 ppm
Mo 202.030 {467} (Axial)	0.026 ppm
S 182.034 {485} (Axial)	1,253.558 ppm
Si 251.611 {134} (Axial)	17.149 ppm
Sb 206.833 {463} (Axial)	0.022 ppm
Se 196.090 {472} (Axial)	0.065 ppm
Ag 328.068 {103} (Axial)	0.005 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.674 ppm
Y 360.073 {94} (Radial)	97.647 %
Y 224.306 {450} (Axial)	89.046 %
In 230.606 {446} (Axial)	78.682 %
Y 360.073 {94} (Axial)	88.834 %
Na 818.326 {41} (Radial)	4,943.837 ppm
Zn 206.200 {463} (Axial)	0.024 ppm
Cd 228.802 {447} (Axial)	0.001 ppm
Cu 324.754 {104} (Radial)	-0.013 ppm

SD L766887-01 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 10:08:00 AM

Dilution Factor 50

	Concentration average
Al 308.215 {109} (Radial)	7.180 ppm
B 249.678 {135} (Radial)	3.260 ppm
Be 313.042 {108} (Radial)	0.017 ppm
Ca 317.933 {106} (Radial)	1,009.744 ppm
Ca 373.690 {90} (Radial)	1,081.382 ppm
Fe 259.940 {130} (Radial)	0.089 ppm
Fe 271.441 {124} (Radial)	3.985 ppm
K 766.490 {44} (Radial)	10.642 ppm
Li 670.784 {50} (Radial)	0.249 ppm
Mg 279.079 {121} (Radial)	966.235 ppm
Na 589.592 {57} (Radial)	4,240.717 ppm
Sr 421.552 {80} (Radial)	22.428 ppm
Ti 334.941 {101} (Radial)	0.178 ppm
V 292.402 {115} (Radial)	-0.100 ppm
Co 228.616 {447} (Axial)	0.056 ppm
Ni 231.604 {446} (Axial)	-0.007 ppm
Pb 220.353 {453} (Axial)	-0.032 ppm
Sn 189.989 {478} (Axial)	-0.062 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Tl 190.856 {477} (Axial)	0.094 ppm
As 189.042 {478} (Axial)	0.052 ppm
Ba 233.527 {445} (Axial)	0.082 ppm
Mo 202.030 {467} (Axial)	0.027 ppm
S 182.034 {485} (Axial)	1,200.229 ppm
Si 251.611 {134} (Axial)	19.352 ppm
Sb 206.833 {463} (Axial)	-0.050 ppm
Se 196.090 {472} (Axial)	0.033 ppm
Ag 328.068 {103} (Axial)	0.002 ppm
Cr 267.716 {126} (Axial)	-0.003 ppm
Mn 257.610 {131} (Axial)	0.687 ppm
Y 360.073 {94} (Radial)	100.322 %
Y 224.306 {450} (Axial)	95.684 %
In 230.606 {446} (Axial)	89.115 %
Y 360.073 {94} (Axial)	97.203 %
Na 818.326 {41} (Radial)	5,018.711 ppm
Zn 206.200 {463} (Axial)	0.273 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	0.369 ppm

MS L766887-01 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 10:12:32 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	1.916 ppm
B 249.678 {135} (Radial)	1.192 ppm
Be 313.042 {108} (Radial)	1.013 ppm
Ca 317.933 {106} (Radial)	974.717 ppm
Ca 373.690 {90} (Radial)	1,048.223 ppm
Fe 259.940 {130} (Radial)	0.996 ppm
Fe 271.441 {124} (Radial)	1.896 ppm
K 766.490 {44} (Radial)	22.562 ppm
Li 670.784 {50} (Radial)	1.321 ppm
Mg 279.079 {121} (Radial)	976.799 ppm
Na 589.592 {57} (Radial)	3,366.863 ppm
Sr 421.552 {80} (Radial)	22.695 ppm
Ti 334.941 {101} (Radial)	1.028 ppm
V 292.402 {115} (Radial)	1.047 ppm
Co 228.616 {447} (Axial)	1.055 ppm
Ni 231.604 {446} (Axial)	1.031 ppm
Pb 220.353 {453} (Axial)	1.071 ppm
Sn 189.989 {478} (Axial)	0.981 ppm
Tl 190.856 {477} (Axial)	0.968 ppm
As 189.042 {478} (Axial)	1.097 ppm
Ba 233.527 {445} (Axial)	1.013 ppm
Mo 202.030 {467} (Axial)	0.987 ppm
S 182.034 {485} (Axial)	1,268.856 ppm
Si 251.611 {134} (Axial)	17.961 ppm
Sb 206.833 {463} (Axial)	1.149 ppm
Se 196.090 {472} (Axial)	1.078 ppm
Ag 328.068 {103} (Axial)	1.075 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cr 267.716 {126} (Axial)	1.019 ppm
Mn 257.610 {131} (Axial)	1.636 ppm
Y 360.073 {94} (Radial)	96.936 %
Y 224.306 {450} (Axial)	87.217 %
In 230.606 {446} (Axial)	77.234 %
Y 360.073 {94} (Axial)	88.666 %
Na 818.326 {41} (Radial)	4,967.337 ppm
Zn 206.200 {463} (Axial)	0.998 ppm
Cd 228.802 {447} (Axial)	1.095 ppm
Cu 324.754 {104} (Radial)	1.116 ppm

MSD L766887-01 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 10:17:11 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	0.951 ppm
B 249.678 {135} (Radial)	1.228 ppm
Be 313.042 {108} (Radial)	0.986 ppm
Ca 317.933 {106} (Radial)	968.409 ppm
Ca 373.690 {90} (Radial)	1,037.490 ppm
Fe 259.940 {130} (Radial)	0.923 ppm
Fe 271.441 {124} (Radial)	1.297 ppm
K 766.490 {44} (Radial)	22.380 ppm
Li 670.784 {50} (Radial)	1.297 ppm
Mg 279.079 {121} (Radial)	965.645 ppm
Na 589.592 {57} (Radial)	3,282.645 ppm
Sr 421.552 {80} (Radial)	22.665 ppm
Ti 334.941 {101} (Radial)	0.997 ppm
V 292.402 {115} (Radial)	1.019 ppm
Co 228.616 {447} (Axial)	1.027 ppm
Ni 231.604 {446} (Axial)	0.990 ppm
Pb 220.353 {453} (Axial)	1.022 ppm
Sn 189.989 {478} (Axial)	0.983 ppm
Tl 190.856 {477} (Axial)	0.957 ppm
As 189.042 {478} (Axial)	1.042 ppm
Ba 233.527 {445} (Axial)	0.988 ppm
Mo 202.030 {467} (Axial)	0.958 ppm
S 182.034 {485} (Axial)	1,250.660 ppm
Si 251.611 {134} (Axial)	17.757 ppm
Sb 206.833 {463} (Axial)	1.055 ppm
Se 196.090 {472} (Axial)	1.101 ppm
Ag 328.068 {103} (Axial)	1.040 ppm
Cr 267.716 {126} (Axial)	0.981 ppm
Mn 257.610 {131} (Axial)	1.593 ppm
Y 360.073 {94} (Radial)	97.082 %
Y 224.306 {450} (Axial)	87.872 %
In 230.606 {446} (Axial)	78.017 %
Y 360.073 {94} (Axial)	89.203 %
Na 818.326 {41} (Radial)	4,965.250 ppm
Zn 206.200 {463} (Axial)	0.962 ppm
Cd 228.802 {447} (Axial)	1.059 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cu 324.754 {104} (Radial)	1.030 ppm

CCV

Sample Type QC Analysis Date 5/29/2015 10:21:50 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	10.125 ppm	102.894 %
B 249.678 {135} (Radial)	1.988 ppm	100.595 %
Be 313.042 {108} (Radial)	0.200 ppm	101.793 %
Ca 317.933 {106} (Radial)	48.338 ppm	98.601 %
Ca 373.690 {90} (Radial)	52.285 ppm	106.766 %
Fe 259.940 {130} (Radial)	9.996 ppm	101.567 %
Fe 271.441 {124} (Radial)	11.034 ppm	112.485 %
K 766.490 {44} (Radial)	46.438 ppm	94.735 %
Li 670.784 {50} (Radial)	1.477 ppm	101.045 %
Mg 279.079 {121} (Radial)	9.912 ppm	102.819 %
Na 589.592 {57} (Radial)	44.832 ppm	91.700 %
Sr 421.552 {80} (Radial)	1.004 ppm	102.123 %
Ti 334.941 {101} (Radial)	0.985 ppm	100.575 %
V 292.402 {115} (Radial)	1.008 ppm	102.475 %
Co 228.616 {447} (Axial)	0.927 ppm	93.295 %
Ni 231.604 {446} (Axial)	1.889 ppm	94.742 %
Pb 220.353 {453} (Axial)	0.481 ppm	97.388 %
Sn 189.989 {478} (Axial)	1.912 ppm	95.929 %
Tl 190.856 {477} (Axial)	1.914 ppm	96.077 %
As 189.042 {478} (Axial)	1.871 ppm	93.854 %
Ba 233.527 {445} (Axial)	0.470 ppm	94.378 %
Mo 202.030 {467} (Axial)	0.469 ppm	94.148 %
S 182.034 {485} (Axial)	4.569 ppm	91.981 %
Si 251.611 {134} (Axial)	1.657 ppm	82.906 %
Sb 206.833 {463} (Axial)	1.907 ppm	95.492 %
Se 196.090 {472} (Axial)	1.965 ppm	98.440 %
Ag 328.068 {103} (Axial)	0.951 ppm	96.058 %
Cr 267.716 {126} (Axial)	0.950 ppm	94.813 %
Mn 257.610 {131} (Axial)	0.906 ppm	90.649 %
Y 360.073 {94} (Radial)	96.776 %	
Y 224.306 {450} (Axial)	96.511 %	
In 230.606 {446} (Axial)	89.182 %	
Y 360.073 {94} (Axial)	97.608 %	
Na 818.326 {41} (Radial)	51.193 ppm	104.738 %
Zn 206.200 {463} (Axial)	2.806 ppm	93.410 %
Cd 228.802 {447} (Axial)	0.502 ppm	100.462 %
Cu 324.754 {104} (Radial)	2.013 ppm	102.455 %

CCB

Sample Type QC Analysis Date 5/29/2015 10:26:14 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.023 ppm	60.832 %
B 249.678 {135} (Radial)	-0.004 ppm	-12.807 %
Be 313.042 {108} (Radial)	0.000 ppm	21.407 %
Ca 317.933 {106} (Radial)	0.011 ppm	4.010 %
Ca 373.690 {90} (Radial)	0.014 ppm	
Fe 259.940 {130} (Radial)	0.003 ppm	8.076 %
Fe 271.441 {124} (Radial)	0.055 ppm	
K 766.490 {44} (Radial)	-0.002 ppm	9.490 %
Li 670.784 {50} (Radial)	0.000 ppm	3.880 %
Mg 279.079 {121} (Radial)	-0.017 ppm	-10.087 %
Na 589.592 {57} (Radial)	0.040 ppm	15.103 %
Sr 421.552 {80} (Radial)	0.000 ppm	-0.994 %
Ti 334.941 {101} (Radial)	0.002 ppm	38.087 %
V 292.402 {115} (Radial)	0.003 ppm	-9.249 %
Co 228.616 {447} (Axial)	0.000 ppm	-3.067 %
Ni 231.604 {446} (Axial)	0.000 ppm	5.159 %
Pb 220.353 {453} (Axial)	0.000 ppm	-70.915 %
Sn 189.989 {478} (Axial)	-0.001 ppm	-19.279 %
Tl 190.856 {477} (Axial)	-0.001 ppm	-18.030 %
As 189.042 {478} (Axial)	-0.002 ppm	-48.372 %
Ba 233.527 {445} (Axial)	0.000 ppm	0.254 %
Mo 202.030 {467} (Axial)	0.001 ppm	13.721 %
S 182.034 {485} (Axial)	0.024 ppm	64.442 %
Si 251.611 {134} (Axial)	0.000 ppm	4.954 %
Sb 206.833 {463} (Axial)	0.002 ppm	-0.029 %
Se 196.090 {472} (Axial)	-0.001 ppm	12.078 %
Ag 328.068 {103} (Axial)	0.000 ppm	-2.166 %
Cr 267.716 {126} (Axial)	0.000 ppm	-5.016 %
Mn 257.610 {131} (Axial)	0.000 ppm	-1.147 %
Y 360.073 {94} (Radial)	100.158 %	
Y 224.306 {450} (Axial)	101.919 %	
In 230.606 {446} (Axial)	102.009 %	
Y 360.073 {94} (Axial)	104.504 %	
Na 818.326 {41} (Radial)	0.281 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.057 %
Cd 228.802 {447} (Axial)	0.000 ppm	-1.283 %
Cu 324.754 {104} (Radial)	0.006 ppm	0.509 %

CCVLL 15E05148

Sample Type QC Analysis Date 5/29/2015 10:30:51 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.142 ppm	123.309 %
B 249.678 {135} (Radial)	0.038 ppm	65.378 %
Be 313.042 {108} (Radial)	0.002 ppm	130.447 %
Ca 317.933 {106} (Radial)	1.042 ppm	103.924 %
Ca 373.690 {90} (Radial)	1.103 ppm	109.662 %
Fe 259.940 {130} (Radial)	0.105 ppm	108.946 %
Fe 271.441 {124} (Radial)	0.200 ppm	231.921 %
K 766.490 {44} (Radial)	0.945 ppm	96.138 %
Li 670.784 {50} (Radial)	0.017 ppm	116.309 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Mg 279.079 {121} (Radial)	1.005 ppm	91.270 %
Na 589.592 {57} (Radial)	1.010 ppm	102.246 %
Sr 421.552 {80} (Radial)	0.011 ppm	111.119 %
Ti 334.941 {101} (Radial)	0.052 ppm	103.299 %
V 292.402 {115} (Radial)	0.016 ppm	108.529 %
Co 228.616 {447} (Axial)	0.010 ppm	95.348 %
Ni 231.604 {446} (Axial)	0.020 ppm	104.238 %
Pb 220.353 {453} (Axial)	0.016 ppm	351.582 %
Sn 189.989 {478} (Axial)	0.047 ppm	91.875 %
Tl 190.856 {477} (Axial)	0.020 ppm	81.886 %
As 189.042 {478} (Axial)	0.019 ppm	117.979 %
Ba 233.527 {445} (Axial)	0.005 ppm	102.420 %
Mo 202.030 {467} (Axial)	0.005 ppm	97.387 %
S 182.034 {485} (Axial)	0.949 ppm	94.750 %
Si 251.611 {134} (Axial)	0.043 ppm	86.846 %
Sb 206.833 {463} (Axial)	0.025 ppm	114.917 %
Se 196.090 {472} (Axial)	0.021 ppm	97.375 %
Ag 328.068 {103} (Axial)	0.010 ppm	110.885 %
Cr 267.716 {126} (Axial)	0.010 ppm	90.645 %
Mn 257.610 {131} (Axial)	0.010 ppm	101.455 %
Y 360.073 {94} (Radial)	98.437 %	
Y 224.306 {450} (Axial)	98.739 %	
In 230.606 {446} (Axial)	97.890 %	
Y 360.073 {94} (Axial)	101.755 %	
Na 818.326 {41} (Radial)	1.187 ppm	143.805 %
Zn 206.200 {463} (Axial)	0.052 ppm	104.792 %
Cd 228.802 {447} (Axial)	0.005 ppm	109.604 %
Cu 324.754 {104} (Radial)	0.025 ppm	138.168 %

CCVLL 15E05148

Sample Type QC Analysis Date 5/29/2015 10:36:26 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.154 ppm	178.647 %
B 249.678 {135} (Radial)	0.045 ppm	76.446 %
Be 313.042 {108} (Radial)	0.002 ppm	115.355 %
Ca 317.933 {106} (Radial)	0.991 ppm	98.053 %
Ca 373.690 {90} (Radial)	1.053 ppm	102.837 %
Fe 259.940 {130} (Radial)	0.106 ppm	106.556 %
Fe 271.441 {124} (Radial)	0.159 ppm	129.784 %
K 766.490 {44} (Radial)	0.920 ppm	91.628 %
Li 670.784 {50} (Radial)	0.016 ppm	108.454 %
Mg 279.079 {121} (Radial)	0.959 ppm	96.167 %
Na 589.592 {57} (Radial)	0.972 ppm	96.986 %
Sr 421.552 {80} (Radial)	0.011 ppm	106.205 %
Ti 334.941 {101} (Radial)	0.050 ppm	101.184 %
V 292.402 {115} (Radial)	0.020 ppm	95.988 %
Co 228.616 {447} (Axial)	0.009 ppm	90.849 %
Ni 231.604 {446} (Axial)	0.019 ppm	96.841 %
Pb 220.353 {453} (Axial)	0.005 ppm	82.772 %
Sn 189.989 {478} (Axial)	0.048 ppm	90.994 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Tl 190.856 {477} (Axial)	0.021 ppm	105.298 %
As 189.042 {478} (Axial)	0.018 ppm	85.656 %
Ba 233.527 {445} (Axial)	0.005 ppm	107.269 %
Mo 202.030 {467} (Axial)	0.005 ppm	102.349 %
S 182.034 {485} (Axial)	0.912 ppm	91.989 %
Si 251.611 {134} (Axial)	0.042 ppm	81.954 %
Sb 206.833 {463} (Axial)	0.020 ppm	101.564 %
Se 196.090 {472} (Axial)	0.018 ppm	81.173 %
Ag 328.068 {103} (Axial)	0.010 ppm	92.291 %
Cr 267.716 {126} (Axial)	0.010 ppm	104.143 %
Mn 257.610 {131} (Axial)	0.010 ppm	98.553 %
Y 360.073 {94} (Radial)	101.661 %	
Y 224.306 {450} (Axial)	101.176 %	
In 230.606 {446} (Axial)	100.334 %	
Y 360.073 {94} (Axial)	105.127 %	
Na 818.326 {41} (Radial)	1.026 ppm	109.773 %
Zn 206.200 {463} (Axial)	0.050 ppm	100.589 %
Cd 228.802 {447} (Axial)	0.005 ppm	93.119 %
Cu 324.754 {104} (Radial)	0.029 ppm	123.838 %

ICSA 15E05138

Sample Type QC Analysis Date 5/29/2015 10:41:52 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	480.552 ppm	95.607 %
B 249.678 {135} (Radial)	-0.049 ppm	-Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	Infinity %
Ca 317.933 {106} (Radial)	437.749 ppm	87.118 %
Ca 373.690 {90} (Radial)	479.904 ppm	95.358 %
Fe 259.940 {130} (Radial)	173.825 ppm	86.539 %
Fe 271.441 {124} (Radial)	193.165 ppm	95.125 %
K 766.490 {44} (Radial)	-0.010 ppm	Infinity %
Li 670.784 {50} (Radial)	0.007 ppm	Infinity %
Mg 279.079 {121} (Radial)	481.630 ppm	95.838 %
Na 589.592 {57} (Radial)	0.107 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.006 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.003 ppm	Infinity %
V 292.402 {115} (Radial)	0.002 ppm	Infinity %
Co 228.616 {447} (Axial)	-0.001 ppm	-Infinity %
Ni 231.604 {446} (Axial)	-0.031 ppm	-Infinity %
Pb 220.353 {453} (Axial)	-0.043 ppm	-Infinity %
Sn 189.989 {478} (Axial)	-0.001 ppm	
Tl 190.856 {477} (Axial)	-0.004 ppm	-Infinity %
As 189.042 {478} (Axial)	-0.026 ppm	-Infinity %
Ba 233.527 {445} (Axial)	0.001 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.005 ppm	-Infinity %
S 182.034 {485} (Axial)	0.001 ppm	-Infinity %
Si 251.611 {134} (Axial)	-0.005 ppm	-Infinity %
Sb 206.833 {463} (Axial)	-0.002 ppm	Infinity %
Se 196.090 {472} (Axial)	0.019 ppm	Infinity %
Ag 328.068 {103} (Axial)	-0.001 ppm	-Infinity %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Cr 267.716 {126} (Axial)	0.002 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.008 ppm	-Infinity %
Y 360.073 {94} (Radial)	96.631 %	
Y 224.306 {450} (Axial)	87.061 %	
In 230.606 {446} (Axial)	74.743 %	
Y 360.073 {94} (Axial)	89.126 %	
Na 818.326 {41} (Radial)	-0.179 ppm	-Infinity %
Zn 206.200 {463} (Axial)	0.006 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.002 ppm	-Infinity %
Cu 324.754 {104} (Radial)	0.013 ppm	Infinity %

ICSAB 15E05139

Sample Type QC Analysis Date 5/29/2015 10:46:26 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	495.705 ppm	100.297 %
B 249.678 {135} (Radial)	0.927 ppm	91.599 %
Be 313.042 {108} (Radial)	0.482 ppm	97.029 %
Ca 317.933 {106} (Radial)	451.745 ppm	91.348 %
Ca 373.690 {90} (Radial)	492.094 ppm	99.714 %
Fe 259.940 {130} (Radial)	180.038 ppm	90.991 %
Fe 271.441 {124} (Radial)	199.810 ppm	100.426 %
K 766.490 {44} (Radial)	0.014 ppm	Infinity %
Li 670.784 {50} (Radial)	0.007 ppm	Infinity %
Mg 279.079 {121} (Radial)	494.883 ppm	100.224 %
Na 589.592 {57} (Radial)	0.118 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.006 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.475 ppm	Infinity %
V 292.402 {115} (Radial)	0.484 ppm	96.670 %
Co 228.616 {447} (Axial)	0.462 ppm	91.616 %
Ni 231.604 {446} (Axial)	0.911 ppm	90.628 %
Pb 220.353 {453} (Axial)	0.940 ppm	93.683 %
Sn 189.989 {478} (Axial)	0.485 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.464 ppm	92.022 %
As 189.042 {478} (Axial)	0.456 ppm	91.221 %
Ba 233.527 {445} (Axial)	0.460 ppm	91.706 %
Mo 202.030 {467} (Axial)	0.439 ppm	87.498 %
S 182.034 {485} (Axial)	-0.012 ppm	
Si 251.611 {134} (Axial)	0.872 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.491 ppm	96.360 %
Se 196.090 {472} (Axial)	0.534 ppm	103.105 %
Ag 328.068 {103} (Axial)	1.082 ppm	108.330 %
Cr 267.716 {126} (Axial)	0.463 ppm	92.580 %
Mn 257.610 {131} (Axial)	0.435 ppm	86.943 %
Y 360.073 {94} (Radial)	94.508 %	
Y 224.306 {450} (Axial)	85.478 %	
In 230.606 {446} (Axial)	73.031 %	
Y 360.073 {94} (Axial)	87.527 %	
Na 818.326 {41} (Radial)	-0.149 ppm	-Infinity %
Zn 206.200 {463} (Axial)	0.874 ppm	87.436 %
Cd 228.802 {447} (Axial)	1.053 ppm	105.309 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Cu 324.754 {104} (Radial)	0.517 ppm	103.430 %

carryover

Sample Type UNKNOWN Analysis Date 5/29/2015 10:53:25 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.133 ppm
B 249.678 {135} (Radial)	-0.009 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.062 ppm
Ca 373.690 {90} (Radial)	0.053 ppm
Fe 259.940 {130} (Radial)	0.046 ppm
Fe 271.441 {124} (Radial)	0.082 ppm
K 766.490 {44} (Radial)	-0.023 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.024 ppm
Na 589.592 {57} (Radial)	0.017 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.002 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)	-0.001 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.004 ppm
As 189.042 {478} (Axial)	-0.007 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.001 ppm
S 182.034 {485} (Axial)	0.013 ppm
Si 251.611 {134} (Axial)	0.001 ppm
Sb 206.833 {463} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	0.001 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	-0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.947 %
Y 224.306 {450} (Axial)	99.212 %
In 230.606 {446} (Axial)	99.283 %
Y 360.073 {94} (Axial)	103.193 %
Na 818.326 {41} (Radial)	0.055 ppm
Zn 206.200 {463} (Axial)	0.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.007 ppm

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Sample Type UNKNOWN Analysis Date 5/29/2015 10:57:58 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	0.026 ppm
B 249.678 {135} (Radial)	-0.004 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.029 ppm
Ca 373.690 {90} (Radial)	0.019 ppm
Fe 259.940 {130} (Radial)	0.011 ppm
Fe 271.441 {124} (Radial)	0.065 ppm
K 766.490 {44} (Radial)	0.005 ppm
Li 670.784 {50} (Radial)	0.004 ppm
Mg 279.079 {121} (Radial)	0.022 ppm
Na 589.592 {57} (Radial)	0.049 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.002 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)	-0.001 ppm
Tl 190.856 {477} (Axial)	-0.003 ppm
As 189.042 {478} (Axial)	-0.002 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.131 ppm
Si 251.611 {134} (Axial)	0.001 ppm
Sb 206.833 {463} (Axial)	0.004 ppm
Se 196.090 {472} (Axial)	0.008 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	-0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	101.049 %
Y 224.306 {450} (Axial)	98.525 %
In 230.606 {446} (Axial)	97.737 %
Y 360.073 {94} (Axial)	102.392 %
Na 818.326 {41} (Radial)	0.439 ppm
Zn 206.200 {463} (Axial)	0.002 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	-0.001 ppm

L766725-01 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:02:37 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.034 ppm
B 249.678 {135} (Radial)	0.074 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	75.259 ppm
Ca 373.690 {90} (Radial)	79.820 ppm
Fe 259.940 {130} (Radial)	0.001 ppm
Fe 271.441 {124} (Radial)	0.096 ppm
K 766.490 {44} (Radial)	2.356 ppm
Li 670.784 {50} (Radial)	0.033 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	16.566 ppm
Na 589.592 {57} (Radial)	26.182 ppm
Sr 421.552 {80} (Radial)	0.750 ppm
Ti 334.941 {101} (Radial)	0.006 ppm
V 292.402 {115} (Radial)	-0.003 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Sn 189.989 {478} (Axial)	-0.003 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.151 ppm
Mo 202.030 {467} (Axial)	0.002 ppm
S 182.034 {485} (Axial)	19.778 ppm
Si 251.611 {134} (Axial)	10.913 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Se 196.090 {472} (Axial)	0.005 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	99.523 %
Y 224.306 {450} (Axial)	94.150 %
In 230.606 {446} (Axial)	88.543 %
Y 360.073 {94} (Axial)	97.555 %
Na 818.326 {41} (Radial)	29.493 ppm
Zn 206.200 {463} (Axial)	0.002 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.003 ppm

L766725-02 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:07:07 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.300 ppm
B 249.678 {135} (Radial)	0.058 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	73.689 ppm
Ca 373.690 {90} (Radial)	78.807 ppm
Fe 259.940 {130} (Radial)	0.157 ppm
Fe 271.441 {124} (Radial)	0.249 ppm
K 766.490 {44} (Radial)	2.591 ppm
Li 670.784 {50} (Radial)	0.030 ppm
Mg 279.079 {121} (Radial)	15.010 ppm
Na 589.592 {57} (Radial)	21.934 ppm
Sr 421.552 {80} (Radial)	0.755 ppm
Ti 334.941 {101} (Radial)	0.011 ppm
V 292.402 {115} (Radial)	0.003 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.002 ppm
Sn 189.989 {478} (Axial)	-0.006 ppm

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	Concentration average
Tl 190.856 {477} (Axial)	0.002 ppm
As 189.042 {478} (Axial)	0.003 ppm
Ba 233.527 {445} (Axial)	0.217 ppm
Mo 202.030 {467} (Axial)	0.002 ppm
S 182.034 {485} (Axial)	7.282 ppm
Si 251.611 {134} (Axial)	11.244 ppm
Sb 206.833 {463} (Axial)	0.004 ppm
Se 196.090 {472} (Axial)	0.003 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.007 ppm
Y 360.073 {94} (Radial)	99.398 %
Y 224.306 {450} (Axial)	93.947 %
In 230.606 {446} (Axial)	88.356 %
Y 360.073 {94} (Axial)	98.255 %
Na 818.326 {41} (Radial)	24.395 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.008 ppm

L766887-02 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:11:39 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	0.777 ppm
B 249.678 {135} (Radial)	0.353 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	885.817 ppm
Ca 373.690 {90} (Radial)	940.275 ppm
Fe 259.940 {130} (Radial)	-0.089 ppm
Fe 271.441 {124} (Radial)	1.006 ppm
K 766.490 {44} (Radial)	8.885 ppm
Li 670.784 {50} (Radial)	0.267 ppm
Mg 279.079 {121} (Radial)	1,059.425 ppm
Na 589.592 {57} (Radial)	3,488.584 ppm
Sr 421.552 {80} (Radial)	20.438 ppm
Ti 334.941 {101} (Radial)	0.078 ppm
V 292.402 {115} (Radial)	0.041 ppm
Co 228.616 {447} (Axial)	0.043 ppm
Ni 231.604 {446} (Axial)	0.017 ppm
Pb 220.353 {453} (Axial)	-0.019 ppm
Sn 189.989 {478} (Axial)	-0.019 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
As 189.042 {478} (Axial)	-0.067 ppm
Ba 233.527 {445} (Axial)	0.036 ppm
Mo 202.030 {467} (Axial)	0.038 ppm
S 182.034 {485} (Axial)	1,523.557 ppm
Si 251.611 {134} (Axial)	15.446 ppm
Sb 206.833 {463} (Axial)	0.022 ppm
Se 196.090 {472} (Axial)	0.006 ppm
Ag 328.068 {103} (Axial)	-0.002 ppm

Basic sample report

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	Concentration average
Cr 267.716 {126} (Axial)	-0.006 ppm
Mn 257.610 {131} (Axial)	1.240 ppm
Y 360.073 {94} (Radial)	95.479 %
Y 224.306 {450} (Axial)	85.404 %
In 230.606 {446} (Axial)	76.147 %
Y 360.073 {94} (Axial)	88.638 %
Na 818.326 {41} (Radial)	5,437.052 ppm
Zn 206.200 {463} (Axial)	0.004 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	0.034 ppm

L766887-03 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:16:16 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.025 ppm
B 249.678 {135} (Radial)	0.026 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.113 ppm
Ca 373.690 {90} (Radial)	0.122 ppm
Fe 259.940 {130} (Radial)	0.003 ppm
Fe 271.441 {124} (Radial)	0.092 ppm
K 766.490 {44} (Radial)	-0.027 ppm
Li 670.784 {50} (Radial)	0.003 ppm
Mg 279.079 {121} (Radial)	0.015 ppm
Na 589.592 {57} (Radial)	0.149 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.002 ppm
V 292.402 {115} (Radial)	-0.001 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Sn 189.989 {478} (Axial)	-0.004 ppm
Tl 190.856 {477} (Axial)	0.007 ppm
As 189.042 {478} (Axial)	0.002 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.469 ppm
Si 251.611 {134} (Axial)	0.044 ppm
Sb 206.833 {463} (Axial)	0.005 ppm
Se 196.090 {472} (Axial)	0.002 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.591 %
Y 224.306 {450} (Axial)	96.835 %
In 230.606 {446} (Axial)	95.903 %
Y 360.073 {94} (Axial)	102.054 %
Na 818.326 {41} (Radial)	0.391 ppm
Zn 206.200 {463} (Axial)	0.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cu 324.754 {104} (Radial)	0.003 ppm

L766887-04 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:20:51 AM

Dilution Factor 10

	Concentration average
Al 308.215 {109} (Radial)	-0.104 ppm
B 249.678 {135} (Radial)	0.375 ppm
Be 313.042 {108} (Radial)	0.003 ppm
Ca 317.933 {106} (Radial)	890.211 ppm
Ca 373.690 {90} (Radial)	948.566 ppm
Fe 259.940 {130} (Radial)	-0.065 ppm
Fe 271.441 {124} (Radial)	0.503 ppm
K 766.490 {44} (Radial)	8.900 ppm
Li 670.784 {50} (Radial)	0.252 ppm
Mg 279.079 {121} (Radial)	1,065.501 ppm
Na 589.592 {57} (Radial)	3,601.082 ppm
Sr 421.552 {80} (Radial)	20.528 ppm
Ti 334.941 {101} (Radial)	0.081 ppm
V 292.402 {115} (Radial)	-0.005 ppm
Co 228.616 {447} (Axial)	0.042 ppm
Ni 231.604 {446} (Axial)	0.008 ppm
Pb 220.353 {453} (Axial)	-0.041 ppm
Sn 189.989 {478} (Axial)	-0.019 ppm
Tl 190.856 {477} (Axial)	-0.030 ppm
As 189.042 {478} (Axial)	-0.077 ppm
Ba 233.527 {445} (Axial)	0.040 ppm
Mo 202.030 {467} (Axial)	0.033 ppm
S 182.034 {485} (Axial)	1,529.916 ppm
Si 251.611 {134} (Axial)	15.673 ppm
Sb 206.833 {463} (Axial)	-0.028 ppm
Se 196.090 {472} (Axial)	0.106 ppm
Ag 328.068 {103} (Axial)	0.003 ppm
Cr 267.716 {126} (Axial)	-0.003 ppm
Mn 257.610 {131} (Axial)	1.211 ppm
Y 360.073 {94} (Radial)	95.642 %
Y 224.306 {450} (Axial)	85.367 %
In 230.606 {446} (Axial)	76.177 %
Y 360.073 {94} (Axial)	88.596 %
Na 818.326 {41} (Radial)	5,461.495 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	0.039 ppm

L766918-02 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:25:29 AM

Dilution Factor 1

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	2.011 ppm
B 249.678 {135} (Radial)	0.377 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	592.718 ppm
Ca 373.690 {90} (Radial)	650.538 ppm
Fe 259.940 {130} (Radial)	2.341 ppm
Fe 271.441 {124} (Radial)	2.585 ppm
K 766.490 {44} (Radial)	11.114 ppm
Li 670.784 {50} (Radial)	0.168 ppm
Mg 279.079 {121} (Radial)	430.225 ppm
Na 589.592 {57} (Radial)	655.598 ppm
Sr 421.552 {80} (Radial)	13.454 ppm
Ti 334.941 {101} (Radial)	0.038 ppm
V 292.402 {115} (Radial)	0.005 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	0.010 ppm
Sn 189.989 {478} (Axial)	-0.008 ppm
Tl 190.856 {477} (Axial)	-0.005 ppm
As 189.042 {478} (Axial)	-0.002 ppm
Ba 233.527 {445} (Axial)	0.049 ppm
Mo 202.030 {467} (Axial)	0.016 ppm
S 182.034 {485} (Axial)	1,211.109 ppm
Si 251.611 {134} (Axial)	15.923 ppm
Sb 206.833 {463} (Axial)	-0.006 ppm
Se 196.090 {472} (Axial)	0.012 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.008 ppm
Mn 257.610 {131} (Axial)	0.246 ppm
Y 360.073 {94} (Radial)	91.851 %
Y 224.306 {450} (Axial)	74.585 %
In 230.606 {446} (Axial)	63.205 %
Y 360.073 {94} (Axial)	78.596 %
Na 818.326 {41} (Radial)	1,878.493 ppm
Zn 206.200 {463} (Axial)	0.016 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.010 ppm

L766918-04 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:30:07 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	1.886 ppm
B 249.678 {135} (Radial)	0.301 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	707.981 ppm
Ca 373.690 {90} (Radial)	786.709 ppm
Fe 259.940 {130} (Radial)	2.129 ppm
Fe 271.441 {124} (Radial)	2.429 ppm
K 766.490 {44} (Radial)	13.457 ppm
Li 670.784 {50} (Radial)	0.201 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	670.793 ppm
Na 589.592 {57} (Radial)	661.884 ppm
Sr 421.552 {80} (Radial)	18.231 ppm
Ti 334.941 {101} (Radial)	0.019 ppm
V 292.402 {115} (Radial)	0.013 ppm
Co 228.616 {447} (Axial)	0.011 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Pb 220.353 {453} (Axial)	0.011 ppm
Sn 189.989 {478} (Axial)	-0.010 ppm
Tl 190.856 {477} (Axial)	0.001 ppm
As 189.042 {478} (Axial)	0.009 ppm
Ba 233.527 {445} (Axial)	0.055 ppm
Mo 202.030 {467} (Axial)	0.009 ppm
S 182.034 {485} (Axial)	1,271.443 ppm
Si 251.611 {134} (Axial)	15.554 ppm
Sb 206.833 {463} (Axial)	-0.003 ppm
Se 196.090 {472} (Axial)	0.020 ppm
Ag 328.068 {103} (Axial)	-0.002 ppm
Cr 267.716 {126} (Axial)	0.005 ppm
Mn 257.610 {131} (Axial)	0.269 ppm
Y 360.073 {94} (Radial)	90.117 %
Y 224.306 {450} (Axial)	70.454 %
In 230.606 {446} (Axial)	58.975 %
Y 360.073 {94} (Axial)	74.505 %
Na 818.326 {41} (Radial)	2,944.273 ppm
Zn 206.200 {463} (Axial)	0.019 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.016 ppm

L766918-06 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:34:45 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.126 ppm
B 249.678 {135} (Radial)	0.136 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	537.708 ppm
Ca 373.690 {90} (Radial)	591.977 ppm
Fe 259.940 {130} (Radial)	-0.048 ppm
Fe 271.441 {124} (Radial)	0.110 ppm
K 766.490 {44} (Radial)	10.996 ppm
Li 670.784 {50} (Radial)	0.106 ppm
Mg 279.079 {121} (Radial)	145.707 ppm
Na 589.592 {57} (Radial)	78.308 ppm
Sr 421.552 {80} (Radial)	11.126 ppm
Ti 334.941 {101} (Radial)	0.011 ppm
V 292.402 {115} (Radial)	0.009 ppm
Co 228.616 {447} (Axial)	0.002 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Pb 220.353 {453} (Axial)	0.002 ppm
Sn 189.989 {478} (Axial)	-0.007 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Tl 190.856 {477} (Axial)	0.002 ppm
As 189.042 {478} (Axial)	-0.006 ppm
Ba 233.527 {445} (Axial)	0.057 ppm
Mo 202.030 {467} (Axial)	0.016 ppm
S 182.034 {485} (Axial)	625.217 ppm
Si 251.611 {134} (Axial)	29.167 ppm
Sb 206.833 {463} (Axial)	-0.005 ppm
Se 196.090 {472} (Axial)	0.001 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.375 ppm
Y 360.073 {94} (Radial)	100.202 %
Y 224.306 {450} (Axial)	84.452 %
In 230.606 {446} (Axial)	76.535 %
Y 360.073 {94} (Axial)	91.095 %
Na 818.326 {41} (Radial)	90.532 ppm
Zn 206.200 {463} (Axial)	0.002 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.003 ppm

L766918-08 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:39:15 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.093 ppm
B 249.678 {135} (Radial)	1.173 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	648.963 ppm
Ca 373.690 {90} (Radial)	722.020 ppm
Fe 259.940 {130} (Radial)	-0.073 ppm
Fe 271.441 {124} (Radial)	0.099 ppm
K 766.490 {44} (Radial)	41.090 ppm
Li 670.784 {50} (Radial)	0.424 ppm
Mg 279.079 {121} (Radial)	708.846 ppm
Na 589.592 {57} (Radial)	555.522 ppm
Sr 421.552 {80} (Radial)	16.909 ppm
Ti 334.941 {101} (Radial)	-0.005 ppm
V 292.402 {115} (Radial)	0.047 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	-0.001 ppm
Pb 220.353 {453} (Axial)	0.004 ppm
Sn 189.989 {478} (Axial)	-0.009 ppm
Tl 190.856 {477} (Axial)	-0.003 ppm
As 189.042 {478} (Axial)	-0.003 ppm
Ba 233.527 {445} (Axial)	0.039 ppm
Mo 202.030 {467} (Axial)	0.044 ppm
S 182.034 {485} (Axial)	1,063.946 ppm
Si 251.611 {134} (Axial)	26.860 ppm
Sb 206.833 {463} (Axial)	-0.001 ppm
Se 196.090 {472} (Axial)	0.021 ppm
Ag 328.068 {103} (Axial)	0.000 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.391 ppm
Y 360.073 {94} (Radial)	96.716 %
Y 224.306 {450} (Axial)	70.028 %
In 230.606 {446} (Axial)	60.530 %
Y 360.073 {94} (Axial)	76.872 %
Na 818.326 {41} (Radial)	1,968.897 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.007 ppm

CCV

Sample Type QC Analysis Date 5/29/2015 11:43:54 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.953 ppm	98.911 %
B 249.678 {135} (Radial)	1.958 ppm	98.317 %
Be 313.042 {108} (Radial)	0.198 ppm	99.399 %
Ca 317.933 {106} (Radial)	47.308 ppm	94.895 %
Ca 373.690 {90} (Radial)	51.020 ppm	101.825 %
Fe 259.940 {130} (Radial)	9.923 ppm	99.481 %
Fe 271.441 {124} (Radial)	10.933 ppm	108.388 %
K 766.490 {44} (Radial)	44.666 ppm	89.764 %
Li 670.784 {50} (Radial)	1.450 ppm	97.241 %
Mg 279.079 {121} (Radial)	9.557 ppm	95.858 %
Na 589.592 {57} (Radial)	42.850 ppm	86.316 %
Sr 421.552 {80} (Radial)	1.008 ppm	101.314 %
Ti 334.941 {101} (Radial)	0.979 ppm	97.974 %
V 292.402 {115} (Radial)	0.991 ppm	99.476 %
Co 228.616 {447} (Axial)	0.935 ppm	93.182 %
Ni 231.604 {446} (Axial)	1.913 ppm	95.535 %
Pb 220.353 {453} (Axial)	0.481 ppm	95.756 %
Sn 189.989 {478} (Axial)	1.940 ppm	97.187 %
Tl 190.856 {477} (Axial)	1.946 ppm	97.119 %
As 189.042 {478} (Axial)	1.930 ppm	96.546 %
Ba 233.527 {445} (Axial)	0.483 ppm	96.291 %
Mo 202.030 {467} (Axial)	0.480 ppm	95.647 %
S 182.034 {485} (Axial)	4.885 ppm	98.189 %
Si 251.611 {134} (Axial)	1.665 ppm	83.123 %
Sb 206.833 {463} (Axial)	1.981 ppm	98.491 %
Se 196.090 {472} (Axial)	2.028 ppm	101.059 %
Ag 328.068 {103} (Axial)	0.956 ppm	95.780 %
Cr 267.716 {126} (Axial)	0.953 ppm	95.269 %
Mn 257.610 {131} (Axial)	0.899 ppm	89.669 %
Y 360.073 {94} (Radial)	102.104 %	
Y 224.306 {450} (Axial)	93.857 %	
In 230.606 {446} (Axial)	87.532 %	
Y 360.073 {94} (Axial)	98.219 %	
Na 818.326 {41} (Radial)	49.750 ppm	100.086 %
Zn 206.200 {463} (Axial)	2.820 ppm	94.453 %
Cd 228.802 {447} (Axial)	0.518 ppm	103.529 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Cu 324.754 {104} (Radial)	2.012 ppm	100.277 %

CCB

Sample Type QC Analysis Date 5/29/2015 11:48:17 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.001 ppm	54.845 %
B 249.678 {135} (Radial)	-0.007 ppm	-12.254 %
Be 313.042 {108} (Radial)	0.000 ppm	10.104 %
Ca 317.933 {106} (Radial)	0.012 ppm	4.491 %
Ca 373.690 {90} (Radial)	0.002 ppm	
Fe 259.940 {130} (Radial)	0.005 ppm	17.892 %
Fe 271.441 {124} (Radial)	-0.003 ppm	
K 766.490 {44} (Radial)	0.007 ppm	11.361 %
Li 670.784 {50} (Radial)	0.001 ppm	4.405 %
Mg 279.079 {121} (Radial)	-0.021 ppm	-5.889 %
Na 589.592 {57} (Radial)	0.216 ppm	86.082 %
Sr 421.552 {80} (Radial)	0.000 ppm	1.169 %
Ti 334.941 {101} (Radial)	0.002 ppm	31.372 %
V 292.402 {115} (Radial)	0.000 ppm	20.907 %
Co 228.616 {447} (Axial)	0.000 ppm	1.632 %
Ni 231.604 {446} (Axial)	0.000 ppm	-1.141 %
Pb 220.353 {453} (Axial)	-0.002 ppm	-18.595 %
Sn 189.989 {478} (Axial)	0.001 ppm	15.941 %
Tl 190.856 {477} (Axial)	-0.001 ppm	-68.474 %
As 189.042 {478} (Axial)	0.001 ppm	-36.859 %
Ba 233.527 {445} (Axial)	0.000 ppm	-1.788 %
Mo 202.030 {467} (Axial)	0.000 ppm	8.247 %
S 182.034 {485} (Axial)	0.102 ppm	209.615 %
Si 251.611 {134} (Axial)	0.000 ppm	1.296 %
Sb 206.833 {463} (Axial)	0.004 ppm	67.845 %
Se 196.090 {472} (Axial)	-0.001 ppm	-52.590 %
Ag 328.068 {103} (Axial)	0.000 ppm	12.151 %
Cr 267.716 {126} (Axial)	0.000 ppm	-7.762 %
Mn 257.610 {131} (Axial)	0.000 ppm	1.686 %
Y 360.073 {94} (Radial)	102.014 %	
Y 224.306 {450} (Axial)	98.425 %	
In 230.606 {446} (Axial)	99.499 %	
Y 360.073 {94} (Axial)	104.819 %	
Na 818.326 {41} (Radial)	0.214 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.577 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.466 %
Cu 324.754 {104} (Radial)	0.004 ppm	0.008 %

L767115-02 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:52:54 AM

Dilution Factor 5

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	0.018 ppm
B 249.678 {135} (Radial)	1.140 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	733.457 ppm
Ca 373.690 {90} (Radial)	787.620 ppm
Fe 259.940 {130} (Radial)	0.308 ppm
Fe 271.441 {124} (Radial)	0.854 ppm
K 766.490 {44} (Radial)	12.572 ppm
Li 670.784 {50} (Radial)	0.487 ppm
Mg 279.079 {121} (Radial)	836.672 ppm
Na 589.592 {57} (Radial)	1,508.785 ppm
Sr 421.552 {80} (Radial)	15.961 ppm
Ti 334.941 {101} (Radial)	0.052 ppm
V 292.402 {115} (Radial)	-0.001 ppm
Co 228.616 {447} (Axial)	0.029 ppm
Ni 231.604 {446} (Axial)	0.007 ppm
Pb 220.353 {453} (Axial)	0.013 ppm
Sn 189.989 {478} (Axial)	-0.023 ppm
Tl 190.856 {477} (Axial)	-0.005 ppm
As 189.042 {478} (Axial)	-0.031 ppm
Ba 233.527 {445} (Axial)	0.045 ppm
Mo 202.030 {467} (Axial)	0.048 ppm
S 182.034 {485} (Axial)	1,091.330 ppm
Si 251.611 {134} (Axial)	25.197 ppm
Sb 206.833 {463} (Axial)	0.015 ppm
Se 196.090 {472} (Axial)	0.025 ppm
Ag 328.068 {103} (Axial)	0.002 ppm
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	1.752 ppm
Y 360.073 {94} (Radial)	100.472 %
Y 224.306 {450} (Axial)	83.546 %
In 230.606 {446} (Axial)	74.974 %
Y 360.073 {94} (Axial)	90.338 %
Na 818.326 {41} (Radial)	2,342.901 ppm
Zn 206.200 {463} (Axial)	0.006 ppm
Cd 228.802 {447} (Axial)	0.001 ppm
Cu 324.754 {104} (Radial)	0.039 ppm

L767115-05 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 11:57:33 AM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.397 ppm
B 249.678 {135} (Radial)	1.239 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	768.689 ppm
Ca 373.690 {90} (Radial)	820.492 ppm
Fe 259.940 {130} (Radial)	0.339 ppm
Fe 271.441 {124} (Radial)	0.569 ppm
K 766.490 {44} (Radial)	12.952 ppm
Li 670.784 {50} (Radial)	0.510 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Mg 279.079 {121} (Radial)	875.692 ppm
Na 589.592 {57} (Radial)	1,621.395 ppm
Sr 421.552 {80} (Radial)	16.740 ppm
Ti 334.941 {101} (Radial)	0.045 ppm
V 292.402 {115} (Radial)	0.033 ppm
Co 228.616 {447} (Axial)	0.032 ppm
Ni 231.604 {446} (Axial)	0.005 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	-0.025 ppm
Tl 190.856 {477} (Axial)	0.010 ppm
As 189.042 {478} (Axial)	0.012 ppm
Ba 233.527 {445} (Axial)	0.044 ppm
Mo 202.030 {467} (Axial)	0.048 ppm
S 182.034 {485} (Axial)	1,096.096 ppm
Si 251.611 {134} (Axial)	26.406 ppm
Sb 206.833 {463} (Axial)	-0.007 ppm
Se 196.090 {472} (Axial)	0.008 ppm
Ag 328.068 {103} (Axial)	0.001 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	1.824 ppm
Y 360.073 {94} (Radial)	99.594 %
Y 224.306 {450} (Axial)	83.401 %
In 230.606 {446} (Axial)	74.641 %
Y 360.073 {94} (Axial)	88.645 %
Na 818.326 {41} (Radial)	2,459.776 ppm
Zn 206.200 {463} (Axial)	0.009 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	0.029 ppm

L767115-07 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 12:02:11 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.409 ppm
B 249.678 {135} (Radial)	0.417 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	808.609 ppm
Ca 373.690 {90} (Radial)	867.313 ppm
Fe 259.940 {130} (Radial)	0.116 ppm
Fe 271.441 {124} (Radial)	0.739 ppm
K 766.490 {44} (Radial)	15.187 ppm
Li 670.784 {50} (Radial)	0.318 ppm
Mg 279.079 {121} (Radial)	811.738 ppm
Na 589.592 {57} (Radial)	1,983.840 ppm
Sr 421.552 {80} (Radial)	19.527 ppm
Ti 334.941 {101} (Radial)	0.049 ppm
V 292.402 {115} (Radial)	0.016 ppm
Co 228.616 {447} (Axial)	0.021 ppm
Ni 231.604 {446} (Axial)	0.003 ppm
Pb 220.353 {453} (Axial)	-0.002 ppm
Sn 189.989 {478} (Axial)	-0.024 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Tl 190.856 {477} (Axial)	-0.003 ppm
As 189.042 {478} (Axial)	-0.010 ppm
Ba 233.527 {445} (Axial)	0.052 ppm
Mo 202.030 {467} (Axial)	0.030 ppm
S 182.034 {485} (Axial)	1,219.487 ppm
Si 251.611 {134} (Axial)	12.984 ppm
Sb 206.833 {463} (Axial)	0.020 ppm
Se 196.090 {472} (Axial)	0.020 ppm
Ag 328.068 {103} (Axial)	0.005 ppm
Cr 267.716 {126} (Axial)	0.001 ppm
Mn 257.610 {131} (Axial)	0.541 ppm
Y 360.073 {94} (Radial)	99.161 %
Y 224.306 {450} (Axial)	83.706 %
In 230.606 {446} (Axial)	74.075 %
Y 360.073 {94} (Axial)	87.833 %
Na 818.326 {41} (Radial)	3,680.920 ppm
Zn 206.200 {463} (Axial)	0.003 ppm
Cd 228.802 {447} (Axial)	0.001 ppm
Cu 324.754 {104} (Radial)	0.022 ppm

MS L767115-07 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 12:06:48 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	1.172 ppm
B 249.678 {135} (Radial)	1.288 ppm
Be 313.042 {108} (Radial)	0.892 ppm
Ca 317.933 {106} (Radial)	779.671 ppm
Ca 373.690 {90} (Radial)	831.534 ppm
Fe 259.940 {130} (Radial)	1.022 ppm
Fe 271.441 {124} (Radial)	2.072 ppm
K 766.490 {44} (Radial)	23.088 ppm
Li 670.784 {50} (Radial)	1.253 ppm
Mg 279.079 {121} (Radial)	784.654 ppm
Na 589.592 {57} (Radial)	2,017.114 ppm
Sr 421.552 {80} (Radial)	19.472 ppm
Ti 334.941 {101} (Radial)	0.909 ppm
V 292.402 {115} (Radial)	0.965 ppm
Co 228.616 {447} (Axial)	0.947 ppm
Ni 231.604 {446} (Axial)	0.935 ppm
Pb 220.353 {453} (Axial)	0.940 ppm
Sn 189.989 {478} (Axial)	0.915 ppm
Tl 190.856 {477} (Axial)	0.874 ppm
As 189.042 {478} (Axial)	1.009 ppm
Ba 233.527 {445} (Axial)	0.953 ppm
Mo 202.030 {467} (Axial)	0.927 ppm
S 182.034 {485} (Axial)	1,170.901 ppm
Si 251.611 {134} (Axial)	13.235 ppm
Sb 206.833 {463} (Axial)	1.025 ppm
Se 196.090 {472} (Axial)	1.025 ppm
Ag 328.068 {103} (Axial)	0.948 ppm

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Cr 267.716 {126} (Axial)	0.902 ppm
Mn 257.610 {131} (Axial)	1.355 ppm
Y 360.073 {94} (Radial)	97.052 %
Y 224.306 {450} (Axial)	81.764 %
In 230.606 {446} (Axial)	72.436 %
Y 360.073 {94} (Axial)	86.587 %
Na 818.326 {41} (Radial)	3,448.415 ppm
Zn 206.200 {463} (Axial)	0.882 ppm
Cd 228.802 {447} (Axial)	1.037 ppm
Cu 324.754 {104} (Radial)	0.957 ppm

MSD L767115-07 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 12:11:25 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	1.419 ppm
B 249.678 {135} (Radial)	1.314 ppm
Be 313.042 {108} (Radial)	0.905 ppm
Ca 317.933 {106} (Radial)	768.379 ppm
Ca 373.690 {90} (Radial)	821.835 ppm
Fe 259.940 {130} (Radial)	1.020 ppm
Fe 271.441 {124} (Radial)	1.436 ppm
K 766.490 {44} (Radial)	23.165 ppm
Li 670.784 {50} (Radial)	1.252 ppm
Mg 279.079 {121} (Radial)	772.959 ppm
Na 589.592 {57} (Radial)	1,880.924 ppm
Sr 421.552 {80} (Radial)	19.158 ppm
Ti 334.941 {101} (Radial)	0.922 ppm
V 292.402 {115} (Radial)	0.942 ppm
Co 228.616 {447} (Axial)	0.947 ppm
Ni 231.604 {446} (Axial)	0.937 ppm
Pb 220.353 {453} (Axial)	0.932 ppm
Sn 189.989 {478} (Axial)	0.913 ppm
Tl 190.856 {477} (Axial)	0.893 ppm
As 189.042 {478} (Axial)	1.003 ppm
Ba 233.527 {445} (Axial)	0.946 ppm
Mo 202.030 {467} (Axial)	0.924 ppm
S 182.034 {485} (Axial)	1,142.452 ppm
Si 251.611 {134} (Axial)	13.015 ppm
Sb 206.833 {463} (Axial)	0.986 ppm
Se 196.090 {472} (Axial)	1.040 ppm
Ag 328.068 {103} (Axial)	0.961 ppm
Cr 267.716 {126} (Axial)	0.911 ppm
Mn 257.610 {131} (Axial)	1.355 ppm
Y 360.073 {94} (Radial)	98.731 %
Y 224.306 {450} (Axial)	83.311 %
In 230.606 {446} (Axial)	73.796 %
Y 360.073 {94} (Axial)	87.875 %
Na 818.326 {41} (Radial)	3,406.366 ppm
Zn 206.200 {463} (Axial)	0.888 ppm
Cd 228.802 {447} (Axial)	1.034 ppm

	Concentration average
Cu 324.754 {104} (Radial)	0.957 ppm

L767115-09 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 12:16:03 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.248 ppm
B 249.678 {135} (Radial)	1.897 ppm
Be 313.042 {108} (Radial)	0.001 ppm
Ca 317.933 {106} (Radial)	4,635.182 ppm
Ca 373.690 {90} (Radial)	5,237.806 ppm
Fe 259.940 {130} (Radial)	-0.512 ppm
Fe 271.441 {124} (Radial)	1.003 ppm
K 766.490 {44} (Radial)	122.684 ppm
Li 670.784 {50} (Radial)	2.187 ppm
Mg 279.079 {121} (Radial)	5,216.548 ppm
Na 589.592 {57} (Radial)	2,342.969 ppm
Sr 421.552 {80} (Radial)	120.434 ppm
Ti 334.941 {101} (Radial)	-0.114 ppm
V 292.402 {115} (Radial)	0.108 ppm
Co 228.616 {447} (Axial)	0.058 ppm
Ni 231.604 {446} (Axial)	-0.035 ppm
Pb 220.353 {453} (Axial)	0.045 ppm
Sn 189.989 {478} (Axial)	-0.054 ppm
Tl 190.856 {477} (Axial)	0.007 ppm
As 189.042 {478} (Axial)	0.042 ppm
Ba 233.527 {445} (Axial)	0.284 ppm
Mo 202.030 {467} (Axial)	0.138 ppm
S 182.034 {485} (Axial)	5,858.525 ppm
Si 251.611 {134} (Axial)	94.846 ppm
Sb 206.833 {463} (Axial)	0.006 ppm
Se 196.090 {472} (Axial)	0.039 ppm
Ag 328.068 {103} (Axial)	-0.006 ppm
Cr 267.716 {126} (Axial)	0.002 ppm
Mn 257.610 {131} (Axial)	0.520 ppm
Y 360.073 {94} (Radial)	88.099 %
Y 224.306 {450} (Axial)	62.492 %
In 230.606 {446} (Axial)	52.110 %
Y 360.073 {94} (Axial)	66.949 %
Na 818.326 {41} (Radial)	24,188.993 ppm
Zn 206.200 {463} (Axial)	0.017 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.011 ppm

L767115-10 WG791630

Sample Type UNKNOWN Analysis Date 5/29/2015 12:20:49 PM

Dilution Factor 5

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average
Al 308.215 {109} (Radial)	0.223 ppm
B 249.678 {135} (Radial)	1.372 ppm
Be 313.042 {108} (Radial)	0.001 ppm
Ca 317.933 {106} (Radial)	2,757.749 ppm
Ca 373.690 {90} (Radial)	3,024.429 ppm
Fe 259.940 {130} (Radial)	-0.349 ppm
Fe 271.441 {124} (Radial)	0.451 ppm
K 766.490 {44} (Radial)	54.651 ppm
Li 670.784 {50} (Radial)	0.738 ppm
Mg 279.079 {121} (Radial)	547.047 ppm
Na 589.592 {57} (Radial)	198.462 ppm
Sr 421.552 {80} (Radial)	49.825 ppm
Ti 334.941 {101} (Radial)	0.054 ppm
V 292.402 {115} (Radial)	0.200 ppm
Co 228.616 {447} (Axial)	0.001 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.017 ppm
Sn 189.989 {478} (Axial)	-0.056 ppm
Tl 190.856 {477} (Axial)	-0.008 ppm
As 189.042 {478} (Axial)	-0.014 ppm
Ba 233.527 {445} (Axial)	0.132 ppm
Mo 202.030 {467} (Axial)	0.111 ppm
S 182.034 {485} (Axial)	2,862.737 ppm
Si 251.611 {134} (Axial)	107.034 ppm
Sb 206.833 {463} (Axial)	-0.029 ppm
Se 196.090 {472} (Axial)	0.043 ppm
Ag 328.068 {103} (Axial)	0.003 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.052 ppm
Y 360.073 {94} (Radial)	96.909 %
Y 224.306 {450} (Axial)	84.172 %
In 230.606 {446} (Axial)	76.741 %
Y 360.073 {94} (Axial)	90.668 %
Na 818.326 {41} (Radial)	231.530 ppm
Zn 206.200 {463} (Axial)	0.014 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.047 ppm

CCV

Sample Type QC Analysis Date 5/29/2015 12:25:19 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.965 ppm	99.540 %
B 249.678 {135} (Radial)	1.937 ppm	95.699 %
Be 313.042 {108} (Radial)	0.198 ppm	98.704 %
Ca 317.933 {106} (Radial)	47.124 ppm	94.344 %
Ca 373.690 {90} (Radial)	50.848 ppm	101.697 %
Fe 259.940 {130} (Radial)	9.861 ppm	98.680 %
Fe 271.441 {124} (Radial)	10.598 ppm	105.466 %
K 766.490 {44} (Radial)	44.742 ppm	89.328 %
Li 670.784 {50} (Radial)	1.462 ppm	98.133 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Mg 279.079 {121} (Radial)	9.507 ppm	94.960 %
Na 589.592 {57} (Radial)	42.567 ppm	84.743 %
Sr 421.552 {80} (Radial)	1.014 ppm	101.302 %
Ti 334.941 {101} (Radial)	0.976 ppm	97.109 %
V 292.402 {115} (Radial)	0.993 ppm	100.170 %
Co 228.616 {447} (Axial)	0.922 ppm	92.314 %
Ni 231.604 {446} (Axial)	1.891 ppm	94.579 %
Pb 220.353 {453} (Axial)	0.476 ppm	95.918 %
Sn 189.989 {478} (Axial)	1.907 ppm	95.346 %
Tl 190.856 {477} (Axial)	1.917 ppm	96.151 %
As 189.042 {478} (Axial)	1.938 ppm	96.412 %
Ba 233.527 {445} (Axial)	0.480 ppm	96.365 %
Mo 202.030 {467} (Axial)	0.479 ppm	96.238 %
S 182.034 {485} (Axial)	4.743 ppm	95.037 %
Si 251.611 {134} (Axial)	1.650 ppm	82.682 %
Sb 206.833 {463} (Axial)	1.987 ppm	99.515 %
Se 196.090 {472} (Axial)	2.034 ppm	102.400 %
Ag 328.068 {103} (Axial)	0.956 ppm	95.509 %
Cr 267.716 {126} (Axial)	0.935 ppm	93.736 %
Mn 257.610 {131} (Axial)	0.886 ppm	88.822 %
Y 360.073 {94} (Radial)	102.471 %	
Y 224.306 {450} (Axial)	93.827 %	
In 230.606 {446} (Axial)	88.010 %	
Y 360.073 {94} (Axial)	99.485 %	
Na 818.326 {41} (Radial)	49.586 ppm	98.401 %
Zn 206.200 {463} (Axial)	2.784 ppm	93.101 %
Cd 228.802 {447} (Axial)	0.518 ppm	103.787 %
Cu 324.754 {104} (Radial)	2.023 ppm	100.903 %

CCB

Sample Type QC Analysis Date 5/29/2015 12:29:42 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.026 ppm	39.814 %
B 249.678 {135} (Radial)	-0.001 ppm	6.205 %
Be 313.042 {108} (Radial)	0.000 ppm	8.864 %
Ca 317.933 {106} (Radial)	0.020 ppm	11.054 %
Ca 373.690 {90} (Radial)	0.007 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	1.539 %
Fe 271.441 {124} (Radial)	0.028 ppm	
K 766.490 {44} (Radial)	0.005 ppm	2.158 %
Li 670.784 {50} (Radial)	0.001 ppm	7.511 %
Mg 279.079 {121} (Radial)	0.027 ppm	3.763 %
Na 589.592 {57} (Radial)	0.265 ppm	108.526 %
Sr 421.552 {80} (Radial)	0.000 ppm	1.237 %
Ti 334.941 {101} (Radial)	0.002 ppm	25.018 %
V 292.402 {115} (Radial)	-0.003 ppm	-36.129 %
Co 228.616 {447} (Axial)	0.000 ppm	-3.436 %
Ni 231.604 {446} (Axial)	0.000 ppm	-2.412 %
Pb 220.353 {453} (Axial)	0.000 ppm	11.007 %
Sn 189.989 {478} (Axial)	0.000 ppm	19.806 %

Basic sample report

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	Concentration average	Recovery Percentage 1
Tl 190.856 {477} (Axial)	-0.001 ppm	0.456 %
As 189.042 {478} (Axial)	-0.002 ppm	-63.583 %
Ba 233.527 {445} (Axial)	0.000 ppm	-7.119 %
Mo 202.030 {467} (Axial)	0.000 ppm	7.304 %
S 182.034 {485} (Axial)	0.057 ppm	126.100 %
Si 251.611 {134} (Axial)	0.000 ppm	-4.174 %
Sb 206.833 {463} (Axial)	0.004 ppm	-6.718 %
Se 196.090 {472} (Axial)	0.005 ppm	56.103 %
Ag 328.068 {103} (Axial)	0.001 ppm	-3.415 %
Cr 267.716 {126} (Axial)	0.000 ppm	-0.348 %
Mn 257.610 {131} (Axial)	0.000 ppm	-0.731 %
Y 360.073 {94} (Radial)	104.116 %	
Y 224.306 {450} (Axial)	98.944 %	
In 230.606 {446} (Axial)	100.646 %	
Y 360.073 {94} (Axial)	106.520 %	
Na 818.326 {41} (Radial)	0.265 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	-0.177 %
Cd 228.802 {447} (Axial)	0.000 ppm	-2.978 %
Cu 324.754 {104} (Radial)	0.005 ppm	0.810 %

CCVLL 15E05148

Sample Type QC Analysis Date 5/29/2015 12:34:18 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.111 ppm	158.149 %
B 249.678 {135} (Radial)	0.041 ppm	66.194 %
Be 313.042 {108} (Radial)	0.002 ppm	123.042 %
Ca 317.933 {106} (Radial)	1.000 ppm	100.002 %
Ca 373.690 {90} (Radial)	1.056 ppm	107.364 %
Fe 259.940 {130} (Radial)	0.111 ppm	116.075 %
Fe 271.441 {124} (Radial)	0.126 ppm	65.248 %
K 766.490 {44} (Radial)	0.936 ppm	90.997 %
Li 670.784 {50} (Radial)	0.016 ppm	108.350 %
Mg 279.079 {121} (Radial)	0.953 ppm	96.701 %
Na 589.592 {57} (Radial)	1.203 ppm	120.632 %
Sr 421.552 {80} (Radial)	0.011 ppm	110.551 %
Ti 334.941 {101} (Radial)	0.052 ppm	102.821 %
V 292.402 {115} (Radial)	0.019 ppm	104.079 %
Co 228.616 {447} (Axial)	0.009 ppm	87.719 %
Ni 231.604 {446} (Axial)	0.019 ppm	93.889 %
Pb 220.353 {453} (Axial)	0.004 ppm	61.688 %
Sn 189.989 {478} (Axial)	0.046 ppm	92.808 %
Tl 190.856 {477} (Axial)	0.025 ppm	118.519 %
As 189.042 {478} (Axial)	0.021 ppm	75.697 %
Ba 233.527 {445} (Axial)	0.005 ppm	107.621 %
Mo 202.030 {467} (Axial)	0.005 ppm	97.013 %
S 182.034 {485} (Axial)	0.957 ppm	96.090 %
Si 251.611 {134} (Axial)	0.043 ppm	87.268 %
Sb 206.833 {463} (Axial)	0.020 ppm	91.455 %
Se 196.090 {472} (Axial)	0.022 ppm	104.283 %
Ag 328.068 {103} (Axial)	0.010 ppm	99.244 %

Basic sample report

6/1/2015 6:01:49 AM

	Concentration average	Recovery Percentage 1
Cr 267.716 {126} (Axial)	0.010 ppm	94.003 %
Mn 257.610 {131} (Axial)	0.010 ppm	97.608 %
Y 360.073 {94} (Radial)	105.668 %	
Y 224.306 {450} (Axial)	98.885 %	
In 230.606 {446} (Axial)	99.735 %	
Y 360.073 {94} (Axial)	106.662 %	
Na 818.326 {41} (Radial)	1.360 ppm	132.378 %
Zn 206.200 {463} (Axial)	0.049 ppm	97.866 %
Cd 228.802 {447} (Axial)	0.005 ppm	104.119 %
Cu 324.754 {104} (Radial)	0.025 ppm	128.527 %

ICSA 15E05138

Sample Type QC Analysis Date 5/29/2015 12:38:54 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	498.503 ppm	101.763 %
B 249.678 {135} (Radial)	-0.040 ppm	-Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	Infinity %
Ca 317.933 {106} (Radial)	447.082 ppm	91.260 %
Ca 373.690 {90} (Radial)	491.634 ppm	100.417 %
Fe 259.940 {130} (Radial)	179.263 ppm	91.396 %
Fe 271.441 {124} (Radial)	197.407 ppm	100.181 %
K 766.490 {44} (Radial)	-0.007 ppm	-Infinity %
Li 670.784 {50} (Radial)	0.006 ppm	Infinity %
Mg 279.079 {121} (Radial)	483.938 ppm	98.976 %
Na 589.592 {57} (Radial)	0.328 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.006 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.000 ppm	-Infinity %
V 292.402 {115} (Radial)	0.005 ppm	Infinity %
Co 228.616 {447} (Axial)	-0.002 ppm	-Infinity %
Ni 231.604 {446} (Axial)	-0.033 ppm	-Infinity %
Pb 220.353 {453} (Axial)	-0.039 ppm	-Infinity %
Sn 189.989 {478} (Axial)	0.001 ppm	
Tl 190.856 {477} (Axial)	0.001 ppm	Infinity %
As 189.042 {478} (Axial)	-0.040 ppm	-Infinity %
Ba 233.527 {445} (Axial)	0.001 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.006 ppm	-Infinity %
S 182.034 {485} (Axial)	0.039 ppm	Infinity %
Si 251.611 {134} (Axial)	-0.003 ppm	-Infinity %
Sb 206.833 {463} (Axial)	-0.016 ppm	-Infinity %
Se 196.090 {472} (Axial)	0.023 ppm	Infinity %
Ag 328.068 {103} (Axial)	0.000 ppm	-Infinity %
Cr 267.716 {126} (Axial)	0.001 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.008 ppm	-Infinity %
Y 360.073 {94} (Radial)	98.204 %	
Y 224.306 {450} (Axial)	83.597 %	
In 230.606 {446} (Axial)	72.569 %	
Y 360.073 {94} (Axial)	88.840 %	
Na 818.326 {41} (Radial)	-0.037 ppm	-Infinity %
Zn 206.200 {463} (Axial)	0.006 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.002 ppm	-Infinity %

Basic sample report

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	Concentration average	Recovery Percentage 1
Cu 324.754 {104} (Radial)	0.009 ppm	Infinity %

ICSAB 15E05139

Sample Type QC Analysis Date 5/29/2015 12:43:28 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	487.253 ppm	98.542 %
B 249.678 {135} (Radial)	0.920 ppm	93.470 %
Be 313.042 {108} (Radial)	0.475 ppm	95.592 %
Ca 317.933 {106} (Radial)	436.098 ppm	88.398 %
Ca 373.690 {90} (Radial)	481.213 ppm	97.225 %
Fe 259.940 {130} (Radial)	174.832 ppm	88.525 %
Fe 271.441 {124} (Radial)	193.362 ppm	97.695 %
K 766.490 {44} (Radial)	0.023 ppm	Infinity %
Li 670.784 {50} (Radial)	0.006 ppm	Infinity %
Mg 279.079 {121} (Radial)	473.726 ppm	95.876 %
Na 589.592 {57} (Radial)	0.236 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.007 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.469 ppm	Infinity %
V 292.402 {115} (Radial)	0.461 ppm	91.516 %
Co 228.616 {447} (Axial)	0.451 ppm	90.061 %
Ni 231.604 {446} (Axial)	0.882 ppm	87.522 %
Pb 220.353 {453} (Axial)	0.911 ppm	90.967 %
Sn 189.989 {478} (Axial)	0.469 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.460 ppm	93.099 %
As 189.042 {478} (Axial)	0.471 ppm	89.541 %
Ba 233.527 {445} (Axial)	0.461 ppm	92.164 %
Mo 202.030 {467} (Axial)	0.438 ppm	87.548 %
S 182.034 {485} (Axial)	0.024 ppm	
Si 251.611 {134} (Axial)	0.855 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.495 ppm	99.501 %
Se 196.090 {472} (Axial)	0.544 ppm	109.745 %
Ag 328.068 {103} (Axial)	1.071 ppm	106.680 %
Cr 267.716 {126} (Axial)	0.446 ppm	88.874 %
Mn 257.610 {131} (Axial)	0.419 ppm	83.143 %
Y 360.073 {94} (Radial)	100.143 %	
Y 224.306 {450} (Axial)	84.132 %	
In 230.606 {446} (Axial)	73.079 %	
Y 360.073 {94} (Axial)	89.495 %	
Na 818.326 {41} (Radial)	0.088 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.847 ppm	84.459 %
Cd 228.802 {447} (Axial)	1.062 ppm	106.087 %
Cu 324.754 {104} (Radial)	0.509 ppm	103.231 %

carryover

Sample Type UNKNOWN Analysis Date 5/29/2015 12:47:53 PM

Dilution Factor 1

Trace Metals by Method 6020

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

Quality Control Summary
SDG: L767115

Trace Metals by Method 6020
URS Corporation - Tucson AZ - 1088308

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Workgroup: **WG791805**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 1x	05/21/2015	05/28/2015	06/01/2015
L767115-02 1x	05/21/2015	05/28/2015	06/03/2015
L767115-05 1x	05/21/2015	05/28/2015	06/01/2015
L767115-05 1x	05/21/2015	05/28/2015	06/03/2015
L767115-07 1x	05/21/2015	05/28/2015	06/03/2015
L767115-07 1x	05/21/2015	05/28/2015	06/03/2015
L767115-09 1x	05/21/2015	05/28/2015	06/01/2015
L767115-09 1x	05/21/2015	05/28/2015	06/03/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Workgroup: **WG791888**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-03 1x	05/21/2015	05/28/2015	05/29/2015
L767115-03 1x	05/21/2015	05/28/2015	05/31/2015
L767115-04 1x	05/21/2015	05/28/2015	05/29/2015
L767115-04 1x	05/21/2015	05/28/2015	05/31/2015
L767115-06 1x	05/21/2015	05/28/2015	05/29/2015
L767115-06 1x	05/21/2015	05/28/2015	05/31/2015
L767115-08 1x	05/21/2015	05/28/2015	05/29/2015
L767115-08 1x	05/21/2015	05/28/2015	05/31/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	Blank WG791805	Blank WG791805	124	6/1/2015	1:49 AM
ICPMS8	LCS WG791805	LCS WG791805	125	6/1/2015	1:51 AM
ICPMS8	LCSD WG791805	LCSD WG791805	126	6/1/2015	1:53 AM
ICPMS8	DUP WG791805	DUP WG791805	128	6/1/2015	1:58 AM
ICPMS8	MS WG791805	MS WG791805	129	6/1/2015	2:00 AM
ICPMS8	MSD WG791805	MSD WG791805	130	6/1/2015	2:02 AM
ICPMS8	H-SS059-MW52-NT01	L767115-05	145	6/1/2015	2:37 AM
ICPMS8	H-SS059-MW50-NT01	L767115-09	146	6/1/2015	2:39 AM
ICPMS8	Blank WG791805	Blank WG791805	142	6/2/2015	8:27 PM
ICPMS8	LCS WG791805	LCS WG791805	143	6/2/2015	8:29 PM
ICPMS8	LCSD WG791805	LCSD WG791805	144	6/2/2015	8:31 PM
ICPMS8	H-SS059-MW52-DT01	L767115-02	164	6/3/2015	1:16 AM
ICPMS8	H-SS059-MW52-NT01	L767115-05	167	6/3/2015	1:23 AM
ICPMS8	H-SS059-MW50-NT01	L767115-09	168	6/3/2015	1:25 AM
ICPMS8	H-SS059-MW51-NT01	L767115-07	170	6/3/2015	1:30 AM
ICPMS8	MS WG791805	MS WG791805	171	6/3/2015	1:32 AM
ICPMS8	MSD WG791805	MSD WG791805	172	6/3/2015	1:34 AM
ICPMS8	DUP WG791805	DUP WG791805	45	6/3/2015	10:34 AM
ICPMS8	MS WG791805	MS WG791805	46	6/3/2015	10:37 AM
ICPMS8	MSD WG791805	MSD WG791805	47	6/3/2015	10:39 AM
ICPMS8	H-SS059-MW51-NT01	L767115-07	48	6/3/2015	10:44 AM
ICPMS8	MS WG791805	MS WG791805	49	6/3/2015	10:46 AM
ICPMS8	MSD WG791805	MSD WG791805	50	6/3/2015	10:49 AM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	H-SS059-MW51-ND01	L767115-06	38	5/31/2015	8:07 PM

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS9	Blank WG791888	Blank WG791888	31	5/29/2015	12:51 PM
ICPMS9	LCS WG791888	LCS WG791888	32	5/29/2015	12:53 PM
ICPMS9	LCSD WG791888	LCSD WG791888	33	5/29/2015	12:56 PM
ICPMS9	DUP WG791888	DUP WG791888	35	5/29/2015	1:00 PM
ICPMS9	MS WG791888	MS WG791888	36	5/29/2015	1:02 PM
ICPMS9	MSD WG791888	MSD WG791888	37	5/29/2015	1:05 PM
ICPMS9	H-SS059-MW52-DD01	L767115-03	48	5/29/2015	1:51 PM
ICPMS9	H-SS059-MW52-ND01	L767115-04	49	5/29/2015	1:53 PM
ICPMS9	H-SS059-MW51-ND01	L767115-06	50	5/29/2015	1:55 PM
ICPMS9	MS WG791888	MS WG791888	51	5/29/2015	1:57 PM
ICPMS9	MSD WG791888	MSD WG791888	52	5/29/2015	2:00 PM
ICPMS9	H-SS059-MW50-ND01	L767115-08	53	5/29/2015	2:02 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony	7440-36-0	< 2.00	< 0.210	
Arsenic	7440-38-2	< 2.00	< 0.250	
Barium	7440-39-3	< 5.00	< 0.360	
Beryllium	7440-41-7	< 2.00	< 0.120	
Cadmium	7440-43-9	< 1.00	< 0.160	
Chromium	7440-47-3	< 2.00	< 0.540	
Cobalt	7440-48-4	< 2.00	< 0.260	
Copper	7440-50-8	< 5.00	0.780	
Lead	7439-92-1	< 2.00	< 0.240	
Manganese	7439-96-5	< 5.00	< 0.250	
Nickel	7440-02-0	< 2.00	< 0.350	
Selenium	7782-49-2	< 2.00	< 0.380	
Silver	7440-22-4	< 2.00	< 0.310	
Thallium	7440-28-0	< 2.00	< 0.190	
Vanadium	7440-62-2	< 5.00	< 0.180	
Zinc	7440-66-6	< 25.0	< 2.56	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony,Dissolved	7440-36-0	< 2.00	< 0.210	
Arsenic,Dissolved	7440-38-2	< 2.00	< 0.250	
Barium,Dissolved	7440-39-3	< 5.00	< 0.360	
Beryllium,Dissolved	7440-41-7	< 2.00	< 0.120	
Cadmium,Dissolved	7440-43-9	< 1.00	< 0.160	
Chromium,Dissolved	7440-47-3	< 2.00	< 0.540	
Cobalt,Dissolved	7440-48-4	< 2.00	< 0.260	
Copper,Dissolved	7440-50-8	< 5.00	< 0.520	
Lead,Dissolved	7439-92-1	< 2.00	< 0.240	
Manganese,Dissolved	7439-96-5	< 5.00	< 0.250	
Nickel,Dissolved	7440-02-0	< 2.00	< 0.350	
Selenium,Dissolved	7782-49-2	< 2.00	< 0.380	
Silver,Dissolved	7440-22-4	< 2.00	< 0.310	
Thallium,Dissolved	7440-28-0	< 2.00	< 0.190	
Vanadium,Dissolved	7440-62-2	< 5.00	0.342	
Zinc,Dissolved	7440-66-6	< 25.0	< 2.56	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	50.942	102	80 - 120	
Arsenic	1	50	52.144	104	80 - 120	
Barium	1	50	47.764	96	80 - 120	
Beryllium	1	50	45.805	92	80 - 120	
Cadmium	1	50	54.307	109	80 - 120	
Chromium	1	50	49.432	99	80 - 120	
Cobalt	1	50	48.974	98	80 - 120	
Copper	1	50	50.184	100	80 - 120	
Lead	1	50	49.769	100	80 - 120	
Manganese	1	50	48.649	97	80 - 120	
Nickel	1	50	48.800	98	80 - 120	
Selenium	1	50	47.610	95	80 - 120	
Silver	1	50	53.105	106	80 - 120	
Thallium	1	50	49.804	100	80 - 120	
Vanadium	1	50	46.753	94	80 - 120	
Zinc	1	50	45.858	92	80 - 120	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	52.397	105	80 - 120	
Arsenic	1	50	53.044	106	80 - 120	
Barium	1	50	50.545	101	80 - 120	
Beryllium	1	50	46.668	93	80 - 120	
Cadmium	1	50	55.262	111	80 - 120	
Chromium	1	50	49.944	100	80 - 120	
Cobalt	1	50	51.420	103	80 - 120	
Copper	1	50	52.519	105	80 - 120	
Lead	1	50	50.790	102	80 - 120	
Manganese	1	50	49.627	99	80 - 120	
Nickel	1	50	51.558	103	80 - 120	
Selenium	1	50	50.650	101	80 - 120	
Silver	1	50	53.998	108	80 - 120	
Thallium	1	50	50.432	101	80 - 120	
Vanadium	1	50	49.583	99	80 - 120	
Zinc	1	50	48.478	97	80 - 120	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony	1	50	50.942	102	52.397	105	80 - 120		3	20	
Arsenic	1	50	52.144	104	53.044	106	80 - 120		2	20	
Barium	1	50	47.764	96	50.545	101	80 - 120		6	20	
Beryllium	1	50	45.805	92	46.668	93	80 - 120		2	20	
Cadmium	1	50	54.307	109	55.262	111	80 - 120		2	20	
Chromium	1	50	49.432	99	49.944	100	80 - 120		1	20	
Cobalt	1	50	48.974	98	51.420	103	80 - 120		5	20	
Copper	1	50	50.184	100	52.519	105	80 - 120		5	20	
Lead	1	50	49.769	100	50.790	102	80 - 120		2	20	
Manganese	1	50	48.649	97	49.627	99	80 - 120		2	20	
Nickel	1	50	48.800	98	51.558	103	80 - 120		5	20	
Selenium	1	50	47.610	95	50.650	101	80 - 120		6	20	
Silver	1	50	53.105	106	53.998	108	80 - 120		2	20	
Thallium	1	50	49.804	100	50.432	101	80 - 120		1	20	
Vanadium	1	50	46.753	94	49.583	99	80 - 120		6	20	
Zinc	1	50	45.858	92	48.478	97	80 - 120		6	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	54.152	108	80 - 120	
Arsenic,Dissolved	1	50	48.756	98	80 - 120	
Barium,Dissolved	1	50	51.480	103	80 - 120	
Beryllium,Dissolved	1	50	50.769	102	80 - 120	
Cadmium,Dissolved	1	50	55.817	112	80 - 120	
Chromium,Dissolved	1	50	49.373	99	80 - 120	
Cobalt,Dissolved	1	50	51.023	102	80 - 120	
Copper,Dissolved	1	50	52.326	105	80 - 120	
Lead,Dissolved	1	50	52.576	105	80 - 120	
Manganese,Dissolved	1	50	49.648	99	80 - 120	
Nickel,Dissolved	1	50	51.424	103	80 - 120	
Selenium,Dissolved	1	50	51.693	103	80 - 120	
Silver,Dissolved	1	50	52.425	105	80 - 120	
Thallium,Dissolved	1	50	52.461	105	80 - 120	
Vanadium,Dissolved	1	50	49.344	99	80 - 120	
Zinc,Dissolved	1	50	50.550	101	80 - 120	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	56.071	112	80 - 120	
Arsenic,Dissolved	1	50	45.887	92	80 - 120	
Barium,Dissolved	1	50	53.331	107	80 - 120	
Beryllium,Dissolved	1	50	51.174	102	80 - 120	
Cadmium,Dissolved	1	50	52.420	105	80 - 120	
Chromium,Dissolved	1	50	48.931	98	80 - 120	
Cobalt,Dissolved	1	50	49.875	100	80 - 120	
Copper,Dissolved	1	50	51.729	103	80 - 120	
Lead,Dissolved	1	50	51.142	102	80 - 120	
Manganese,Dissolved	1	50	50.571	101	80 - 120	
Nickel,Dissolved	1	50	50.934	102	80 - 120	
Selenium,Dissolved	1	50	48.926	98	80 - 120	
Silver,Dissolved	1	50	52.768	106	80 - 120	
Thallium,Dissolved	1	50	50.186	100	80 - 120	
Vanadium,Dissolved	1	50	48.779	98	80 - 120	
Zinc,Dissolved	1	50	49.219	98	80 - 120	

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Quality Control Summary
SDG: L767115
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Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony,Dissolved	1	50	54.152	108	56.071	112	80 - 120		3	20	
Arsenic,Dissolved	1	50	48.756	98	45.887	92	80 - 120		6	20	
Barium,Dissolved	1	50	51.480	103	53.331	107	80 - 120		4	20	
Beryllium,Dissolved	1	50	50.769	102	51.174	102	80 - 120		1	20	
Cadmium,Dissolved	1	50	55.817	112	52.420	105	80 - 120		6	20	
Chromium,Dissolved	1	50	49.373	99	48.931	98	80 - 120		1	20	
Cobalt,Dissolved	1	50	51.023	102	49.875	100	80 - 120		2	20	
Copper,Dissolved	1	50	52.326	105	51.729	103	80 - 120		1	20	
Lead,Dissolved	1	50	52.576	105	51.142	102	80 - 120		3	20	
Manganese,Dissolved	1	50	49.648	99	50.571	101	80 - 120		2	20	
Nickel,Dissolved	1	50	51.424	103	50.934	102	80 - 120		1	20	
Selenium,Dissolved	1	50	51.693	103	48.926	98	80 - 120		5	20	
Silver,Dissolved	1	50	52.425	105	52.768	106	80 - 120		1	20	
Thallium,Dissolved	1	50	52.461	105	50.186	100	80 - 120		4	20	
Vanadium,Dissolved	1	50	49.344	99	48.779	98	80 - 120		1	20	
Zinc,Dissolved	1	50	50.550	101	49.219	98	80 - 120		3	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Serial Dilution

L766887-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Antimony	5	0.4069	<1.05	28	10	
Arsenic	5	3.9053	3.5836	8	10	
Barium	5	36.911	40.474	10	10	
Beryllium	5	<0.12	<0.6		10	
Cadmium	5	0.3656	<0.8	10	10	
Chromium	5	<0.54	<2.7		10	
Cobalt	5	3.8063	4.3927	15	10	
Copper	5	1.1078	3.5823	223	10	
Lead	5	<0.24	1.4525	861	10	
Manganese	5	600.54	694.02	16	10	
Nickel	5	6.7221	29.284	336	10	
Selenium	5	10.636	10.076	5	10	
Silver	5	<0.31	<1.55		10	
Thallium	5	<0.19	<0.95		10	
Vanadium	5	8.8541	9.8526	11	10	
Zinc	5	4.1738	18.915	353	10	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony	1	50	3.0706	61.926	118	60.515	115	75 - 125		2	20	
Arsenic	1	50	3.0484	62.835	120	61.550	117	75 - 125		2	20	
Barium	1	50	65.228	120.82	111	120.05	110	75 - 125		1	20	
Beryllium	1	50	<0.12	47.799	96	48.601	97	75 - 125		2	20	
Cadmium	1	50	0.1744	52.648	105	52.047	104	75 - 125		1	20	
Chromium	1	50	<0.54	39.881	79	40.886	81	75 - 125		2	20	
Cobalt	1	50	2.6436	43.135	81	43.442	82	75 - 125		1	20	
Copper	1	50	1.2939	40.520	78	41.411	80	75 - 125		2	20	
Lead	1	50	0.2554	55.472	110	55.414	110	75 - 125		0	20	
Manganese	1	50	483.68	537.35	107	546.47	126	75 - 125	V	2	20	
Nickel	1	50	7.1293	46.644	79	46.390	79	75 - 125		1	20	
Selenium	1	50	7.6493	65.445	116	64.090	113	75 - 125		2	20	
Silver	1	50	<0.31	54.153	108	54.129	108	75 - 125		0	20	
Thallium	1	50	<0.19	55.985	112	56.202	112	75 - 125		0	20	
Vanadium	1	50	7.6637	50.166	85	50.956	87	75 - 125		2	20	
Zinc	1	50	2.9000	39.551	73	40.233	75	75 - 125	J6	2	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791805**
Analysis Date:	6/1/2015	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	5/27/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Matrix Spike / Matrix Spike Duplicate

L766887-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony	1	50	0.4069	54.346	108	54.855	109	75 - 125		1	20	
Arsenic	1	50	3.9053	60.107	112	60.936	114	75 - 125		1	20	
Barium	1	50	36.911	89.661	106	91.011	108	75 - 125		1	20	
Beryllium	1	50	<0.12	43.080	86	42.905	86	75 - 125		0	20	
Cadmium	1	50	0.3656	50.168	100	50.947	101	75 - 125		2	20	
Chromium	1	50	<0.54	38.582	76	39.722	79	75 - 125		3	20	
Cobalt	1	50	3.8063	47.944	88	47.821	88	75 - 125		0	20	
Copper	1	50	1.1078	44.215	86	43.921	86	75 - 125		1	20	
Lead	1	50	<0.24	50.618	101	51.332	102	75 - 125		1	20	
Manganese	1	50	600.54	657.75	114	653.68	106	75 - 125		1	20	
Nickel	1	50	6.7221	49.843	86	49.961	86	75 - 125		0	20	
Selenium	1	50	10.636	67.174	113	64.131	107	75 - 125		5	20	
Silver	1	50	<0.31	49.675	99	50.919	102	75 - 125		2	20	
Thallium	1	50	<0.19	51.332	102	51.986	104	75 - 125		1	20	
Vanadium	1	50	8.8541	56.136	95	55.342	93	75 - 125		1	20	
Zinc	1	50	4.1738	44.357	80	43.966	80	75 - 125		1	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Serial Dilution

L766887-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Antimony,Dissolved	5	0.4221	<1.05	110	10	
Arsenic,Dissolved	5	3.4695	3.5308	2	10	
Barium,Dissolved	5	35.151	35.930	2	10	
Beryllium,Dissolved	5	<0.12	<0.6		10	
Cadmium,Dissolved	5	0.1645	<0.8	22	10	
Chromium,Dissolved	5	<0.54	<2.7		10	
Cobalt,Dissolved	5	3.1856	4.2917	35	10	
Copper,Dissolved	5	1.2547	4.0363	222	10	
Lead,Dissolved	5	<0.24	1.6167	1988	10	
Manganese,Dissolved	5	560.05	661.46	18	10	
Nickel,Dissolved	5	6.3186	23.792	277	10	
Selenium,Dissolved	5	11.421	11.309	1	10	
Silver,Dissolved	5	<0.31	<1.55		10	
Thallium,Dissolved	5	<0.19	<0.95		10	
Vanadium,Dissolved	5	8.9751	11.105	24	10	
Zinc,Dissolved	5	13.471	48.797	262	10	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Matrix Spike / Matrix Spike Duplicate

L766887-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony,Dissolved	1	50	0.4221	56.199	112	56.872	113	75 - 125		1	20	
Arsenic,Dissolved	1	50	3.4695	55.702	104	56.766	107	75 - 125		2	20	
Barium,Dissolved	1	50	35.151	88.377	106	87.259	104	75 - 125		1	20	
Beryllium,Dissolved	1	50	<0.12	45.578	91	46.222	92	75 - 125		1	20	
Cadmium,Dissolved	1	50	0.1645	53.704	107	53.686	107	75 - 125		0	20	
Chromium,Dissolved	1	50	<0.54	45.063	90	43.529	87	75 - 125		3	20	
Cobalt,Dissolved	1	50	3.1856	46.908	87	45.574	85	75 - 125		3	20	
Copper,Dissolved	1	50	1.2547	43.709	85	43.239	84	75 - 125		1	20	
Lead,Dissolved	1	50	<0.24	52.393	105	52.355	105	75 - 125		0	20	
Manganese,Dissolved	1	50	560.05	611.37	103	600.67	81	75 - 125		2	20	
Nickel,Dissolved	1	50	6.3186	48.612	85	48.362	84	75 - 125		1	20	
Selenium,Dissolved	1	50	11.421	68.121	113	67.674	113	75 - 125		1	20	
Silver,Dissolved	1	50	<0.31	49.964	100	49.514	99	75 - 125		1	20	
Thallium,Dissolved	1	50	<0.19	51.876	103	52.183	104	75 - 125		1	20	
Vanadium,Dissolved	1	50	8.9751	55.914	94	54.254	91	75 - 125		3	20	
Zinc,Dissolved	1	50	13.471	50.479	74	49.748	73	75 - 125	J6	1	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791888**
Analysis Date:	5/29/2015	Analyst:	117
Instrument ID:	ICPMS9, ICPMS8	Prep Date:	5/28/2015
Sample Numbers:	L767115-03, -04, -06, -08		

Matrix Spike / Matrix Spike Duplicate

L767115-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony,Dissolved	1	50	0.4375	58.806	117	60.555	120	75 - 125		3	20	
Arsenic,Dissolved	1	50	2.7422	57.602	110	57.953	110	75 - 125		1	20	
Barium,Dissolved	1	50	60.232	114.88	109	113.63	107	75 - 125		1	20	
Beryllium,Dissolved	1	50	<0.12	44.466	89	45.399	91	75 - 125		2	20	
Cadmium,Dissolved	1	50	0.2070	51.197	102	53.553	107	75 - 125		4	20	
Chromium,Dissolved	1	50	<0.54	44.216	88	44.503	89	75 - 125		1	20	
Cobalt,Dissolved	1	50	2.9814	46.438	87	46.534	87	75 - 125		0	20	
Copper,Dissolved	1	50	0.9750	43.369	85	43.908	86	75 - 125		1	20	
Lead,Dissolved	1	50	<0.24	53.735	107	53.939	107	75 - 125		0	20	
Manganese,Dissolved	1	50	588.53	633.98	91	629.42	82	75 - 125		1	20	
Nickel,Dissolved	1	50	7.8371	51.985	88	51.857	88	75 - 125		0	20	
Selenium,Dissolved	1	50	6.9963	61.794	110	63.480	113	75 - 125		3	20	
Silver,Dissolved	1	50	<0.31	51.400	103	51.196	102	75 - 125		0	20	
Thallium,Dissolved	1	50	<0.19	53.271	106	54.644	109	75 - 125		3	20	
Vanadium,Dissolved	1	50	7.5677	54.150	93	53.663	92	75 - 125		1	20	
Zinc,Dissolved	1	50	<2.56	40.639	80	42.204	83	75 - 125		4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 6/2/2015 9:27 AM
Analysis Time: 0927
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.100	0.1	100 %	90-110
Arsenic (75)	0.0970	0.1	97 %	90-110
Barium (137)	0.102	0.1	102 %	90-110
Beryllium (9)	0.100	0.1	100 %	90-110
Cadmium (111)	0.0987	0.1	99 %	90-110
Cobalt (59)	0.101	0.1	101 %	90-110
Chromium (52)	0.0985	0.1	99 %	90-110
Copper (63)	0.101	0.1	101 %	90-110
Manganese (55)	0.0982	0.1	98 %	90-110
Nickel (60)	0.0984	0.1	98 %	90-110
Lead (208)	0.0997	0.1	100 %	90-110
Antimony (121)	0.105	0.1	105 %	90-110
Thallium (205)	0.0974	0.1	97 %	90-110
Vanadium (51)	0.0983	0.1	98 %	90-110
Zinc (66)	0.100	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICVLL
Analysis Date: 6/2/2015 9:32 AM
Analysis Time: 0932
Data File: 060215ICPMS8

Analyte	Conc.
Silver (107)	0.0010
Arsenic (75)	0.0010
Barium (137)	0.0022
Beryllium (9)	0.0009
Cadmium (111)	0.0010
Cobalt (59)	0.0010
Chromium (52)	0.0009
Copper (63)	0.0011
Manganese (55)	0.0020
Nickel (60)	0.0012
Lead (208)	0.0011
Antimony (121)	0.0012
Thallium (205)	0.0009
Vanadium (51)	0.0020
Zinc (66)	0.0105

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 6/2/2015 7:59 PM
Analysis Time: 1959
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.106	0.1	106 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Barium (137)	0.105	0.1	105 %	90-110
Beryllium (9)	0.102	0.1	102 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.102	0.1	102 %	90-110
Copper (63)	0.105	0.1	105 %	90-110
Manganese (55)	0.103	0.1	103 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.102	0.1	102 %	90-110
Antimony (121)	0.108	0.1	108 %	90-110
Thallium (205)	0.101	0.1	101 %	90-110
Vanadium (51)	0.103	0.1	103 %	90-110
Zinc (66)	0.104	0.1	104 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICVLL
Analysis Date: 6/2/2015 8:11 PM
Analysis Time: 2011
Data File: 060215ICPMS8

Analyte	Conc.
Silver (107)	0.0010
Arsenic (75)	0.0010
Barium (137)	0.0021
Beryllium (9)	0.0010
Cadmium (111)	0.0010
Cobalt (59)	0.0010
Chromium (52)	0.0010
Copper (63)	0.0010
Manganese (55)	0.0024
Nickel (60)	0.0013
Lead (208)	0.0011
Antimony (121)	0.0011
Thallium (205)	0.0011
Vanadium (51)	0.0019
Zinc (66)	0.0114

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/2/2015 10:17 PM
Analysis Time: 2217
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.101	0.1	101 %	90-110
Arsenic (75)	0.0970	0.1	97 %	90-110
Barium (137)	0.0996	0.1	100 %	90-110
Beryllium (9)	0.103	0.1	103 %	90-110
Cadmium (111)	0.0948	0.1	95 %	90-110
Cobalt (59)	0.0995	0.1	99 %	90-110
Chromium (52)	0.0993	0.1	99 %	90-110
Copper (63)	0.0984	0.1	98 %	90-110
Manganese (55)	0.0985	0.1	98 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.0994	0.1	99 %	90-110
Antimony (121)	0.0993	0.1	99 %	90-110
Thallium (205)	0.0986	0.1	99 %	90-110
Vanadium (51)	0.0994	0.1	99 %	90-110
Zinc (66)	0.1000	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/3/2015 1:18 AM
Analysis Time: 0118
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.106	0.1	106 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Barium (137)	0.102	0.1	102 %	90-110
Beryllium (9)	0.0992	0.1	99 %	90-110
Cadmium (111)	0.105	0.1	105 %	90-110
Cobalt (59)	0.106	0.1	106 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Copper (63)	0.105	0.1	105 %	90-110
Manganese (55)	0.104	0.1	104 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.103	0.1	103 %	90-110
Thallium (205)	0.104	0.1	104 %	90-110
Vanadium (51)	0.104	0.1	104 %	90-110
Zinc (66)	0.103	0.1	103 %	90-110

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/3/2015 1:46 AM
Analysis Time: 0146
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.109	0.1	109 %	90-110
Arsenic (75)	0.109	0.1	109 %	90-110
Barium (137)	0.106	0.1	106 %	90-110
Beryllium (9)	0.103	0.1	103 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.107	0.1	107 %	90-110
Chromium (52)	0.106	0.1	106 %	90-110
Copper (63)	0.106	0.1	106 %	90-110
Manganese (55)	0.106	0.1	106 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.106	0.1	106 %	90-110
Antimony (121)	0.107	0.1	107 %	90-110
Thallium (205)	0.107	0.1	107 %	90-110
Vanadium (51)	0.107	0.1	107 %	90-110
Zinc (66)	0.105	0.1	105 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 5/31/2015 9:28 PM
Analysis Time: 2128
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.0967	0.1	97 %	90-110
Arsenic (75)	0.0936	0.1	94 %	90-110
Barium (137)	0.101	0.1	101 %	90-110
Beryllium (9)	0.0932	0.1	93 %	90-110
Cadmium (111)	0.0942	0.1	94 %	90-110
Cobalt (59)	0.0963	0.1	96 %	90-110
Chromium (52)	0.0946	0.1	95 %	90-110
Copper (63)	0.0948	0.1	95 %	90-110
Manganese (55)	0.0976	0.1	98 %	90-110
Nickel (60)	0.0942	0.1	94 %	90-110
Lead (208)	0.0982	0.1	98 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Selenium (78)	0.0978	0.1	98 %	90-110
Selenium (82)	0.0939	0.1	94 %	90-110
Thallium (205)	0.0975	0.1	98 %	90-110
Vanadium (51)	0.0956	0.1	96 %	90-110
Zinc (66)	0.0970	0.1	97 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICVLL
Analysis Date: 5/31/2015 9:43 PM
Analysis Time: 2143
Data File: 053115ICPMS8

Analyte	Conc.
Silver (107)	0.0010
Arsenic (75)	0.0010
Barium (137)	0.0017
Beryllium (9)	0.0010
Cadmium (111)	0.0011
Cobalt (59)	0.0010
Chromium (52)	0.0006
Copper (63)	0.0010
Manganese (55)	0.0025
Nickel (60)	0.0010
Lead (208)	0.0011
Antimony (121)	0.0010
Selenium (78)	0.0009
Selenium (82)	0.0004
Thallium (205)	0.0010
Vanadium (51)	0.0021
Zinc (66)	0.0085

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/1/2015 1:44 AM
Analysis Time: 0144
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.0989	0.1	99 %	90-110
Barium (137)	0.0990	0.1	99 %	90-110
Beryllium (9)	0.0931	0.1	93 %	90-110
Cadmium (111)	0.102	0.1	102 %	90-110
Cobalt (59)	0.102	0.1	102 %	90-110
Chromium (52)	0.0992	0.1	99 %	90-110
Copper (63)	0.102	0.1	102 %	90-110
Manganese (55)	0.100	0.1	100 %	90-110
Nickel (60)	0.103	0.1	103 %	90-110
Lead (208)	0.102	0.1	102 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Selenium (78)	0.103	0.1	103 %	90-110
Selenium (82)	0.102	0.1	102 %	90-110
Thallium (205)	0.102	0.1	102 %	90-110
Vanadium (51)	0.0991	0.1	99 %	90-110
Zinc (66)	0.0999	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/1/2015 2:05 AM
Analysis Time: 0205
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.103	0.1	103 %	90-110
Barium (137)	0.0991	0.1	99 %	90-110
Beryllium (9)	0.0946	0.1	95 %	90-110
Cadmium (111)	0.102	0.1	102 %	90-110
Cobalt (59)	0.102	0.1	102 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Copper (63)	0.102	0.1	102 %	90-110
Manganese (55)	0.102	0.1	102 %	90-110
Nickel (60)	0.0999	0.1	100 %	90-110
Lead (208)	0.103	0.1	103 %	90-110
Antimony (121)	0.100	0.1	100 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Selenium (82)	0.0934	0.1	93 %	90-110
Thallium (205)	0.104	0.1	104 %	90-110
Vanadium (51)	0.103	0.1	103 %	90-110
Zinc (66)	0.0996	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/1/2015 2:32 AM
Analysis Time: 0232
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.101	0.1	101 %	90-110
Barium (137)	0.103	0.1	103 %	90-110
Beryllium (9)	0.0944	0.1	94 %	90-110
Cadmium (111)	0.102	0.1	102 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.102	0.1	102 %	90-110
Copper (63)	0.104	0.1	104 %	90-110
Manganese (55)	0.103	0.1	103 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.104	0.1	104 %	90-110
Selenium (78)	0.101	0.1	101 %	90-110
Selenium (82)	0.0984	0.1	98 %	90-110
Thallium (205)	0.105	0.1	105 %	90-110
Vanadium (51)	0.102	0.1	102 %	90-110
Zinc (66)	0.103	0.1	103 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/1/2015 2:51 AM
Analysis Time: 0251
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.104	0.1	104 %	90-110
Barium (137)	0.104	0.1	104 %	90-110
Beryllium (9)	0.0950	0.1	95 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.105	0.1	105 %	90-110
Copper (63)	0.105	0.1	105 %	90-110
Manganese (55)	0.108	0.1	108 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.106	0.1	106 %	90-110
Antimony (121)	0.106	0.1	106 %	90-110
Selenium (78)	0.106	0.1	106 %	90-110
Selenium (82)	0.0960	0.1	96 %	90-110
Thallium (205)	0.106	0.1	106 %	90-110
Vanadium (51)	0.105	0.1	105 %	90-110
Zinc (66)	0.102	0.1	102 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 6/3/2015 7:16 AM
Analysis Time: 0716
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.105	0.1	105 %	90-110
Arsenic (75)	0.102	0.1	102 %	90-110
Barium (137)	0.102	0.1	102 %	90-110
Beryllium (9)	0.103	0.1	103 %	90-110
Cadmium (111)	0.105	0.1	105 %	90-110
Cobalt (59)	0.103	0.1	103 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Copper (63)	0.104	0.1	104 %	90-110
Manganese (55)	0.101	0.1	101 %	90-110
Nickel (60)	0.103	0.1	103 %	90-110
Lead (208)	0.100	0.1	100 %	90-110
Antimony (121)	0.109	0.1	109 %	90-110
Selenium (78)	0.101	0.1	101 %	90-110
Selenium (82)	0.104	0.1	104 %	90-110
Thallium (205)	0.0988	0.1	99 %	90-110
Vanadium (51)	0.101	0.1	101 %	90-110
Zinc (66)	0.101	0.1	101 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICVLL
Analysis Date: 6/3/2015 7:20 AM
Analysis Time: 0720
Data File: 060315ICPMS8

Analyte	Conc.
Silver (107)	0.0010
Arsenic (75)	0.0010
Barium (137)	0.0021
Beryllium (9)	0.0011
Cadmium (111)	0.0010
Cobalt (59)	0.0010
Chromium (52)	0.0010
Copper (63)	0.0011
Manganese (55)	0.0024
Nickel (60)	0.0015
Lead (208)	0.0011
Antimony (121)	0.0014
Selenium (78)	0.0011
Selenium (82)	0.0022
Thallium (205)	0.0009
Vanadium (51)	0.0019
Zinc (66)	0.0101

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/3/2015 9:42 AM
Analysis Time: 0942
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.101	0.1	101 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Barium (137)	0.0980	0.1	98 %	90-110
Beryllium (9)	0.0965	0.1	96 %	90-110
Cadmium (111)	0.103	0.1	103 %	90-110
Cobalt (59)	0.102	0.1	102 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Copper (63)	0.103	0.1	103 %	90-110
Manganese (55)	0.0992	0.1	99 %	90-110
Nickel (60)	0.101	0.1	101 %	90-110
Lead (208)	0.0989	0.1	99 %	90-110
Antimony (121)	0.0981	0.1	98 %	90-110
Selenium (78)	0.0986	0.1	99 %	90-110
Selenium (82)	0.102	0.1	102 %	90-110
Thallium (205)	0.0976	0.1	98 %	90-110
Vanadium (51)	0.101	0.1	101 %	90-110
Zinc (66)	0.0997	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 6/3/2015 10:59 AM
Analysis Time: 1059
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.101	0.1	101 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Barium (137)	0.0949	0.1	95 %	90-110
Beryllium (9)	0.0939	0.1	94 %	90-110
Cadmium (111)	0.103	0.1	103 %	90-110
Cobalt (59)	0.103	0.1	103 %	90-110
Chromium (52)	0.102	0.1	102 %	90-110
Copper (63)	0.104	0.1	104 %	90-110
Manganese (55)	0.101	0.1	101 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.0997	0.1	100 %	90-110
Antimony (121)	0.0973	0.1	97 %	90-110
Selenium (78)	0.104	0.1	104 %	90-110
Selenium (82)	0.0957	0.1	96 %	90-110
Thallium (205)	0.0989	0.1	99 %	90-110
Vanadium (51)	0.101	0.1	101 %	90-110
Zinc (66)	0.0988	0.1	99 %	90-110

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 5/29/2015 11:25 AM
Analysis Time: 1125
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.0993	0.1	99 %	90-110
Arsenic (75)	0.0970	0.1	97 %	90-110
Barium (137)	0.0985	0.1	98 %	90-110
Beryllium (9)	0.0964	0.1	96 %	90-110
Cadmium (111)	0.0976	0.1	98 %	90-110
Cobalt (59)	0.0977	0.1	98 %	90-110
Chromium (52)	0.0966	0.1	97 %	90-110
Copper (63)	0.0982	0.1	98 %	90-110
Manganese (55)	0.100	0.1	100 %	90-110
Nickel (60)	0.101	0.1	101 %	90-110
Lead (208)	0.0979	0.1	98 %	90-110
Antimony (121)	0.105	0.1	105 %	90-110
Selenium (78)	0.101	0.1	101 %	90-110
Selenium (82)	0.101	0.1	101 %	90-110
Thallium (205)	0.0964	0.1	96 %	90-110
Vanadium (51)	0.0966	0.1	97 %	90-110
Zinc (66)	0.101	0.1	101 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/29/2015 11:30 AM
Analysis Time: 1130
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.0967	0.1	97 %	90-110
Arsenic (75)	0.0924	0.1	92 %	90-110
Barium (137)	0.0921	0.1	92 %	90-110
Beryllium (9)	0.0882	0.1	88 %	90-110
Cadmium (111)	0.0937	0.1	94 %	90-110
Cobalt (59)	0.0969	0.1	97 %	90-110
Chromium (52)	0.0952	0.1	95 %	90-110
Copper (63)	0.0984	0.1	98 %	90-110
Manganese (55)	0.0955	0.1	95 %	90-110
Nickel (60)	0.0966	0.1	97 %	90-110
Lead (208)	0.0924	0.1	92 %	90-110
Antimony (121)	0.0937	0.1	94 %	90-110
Selenium (78)	0.0967	0.1	97 %	90-110
Selenium (82)	0.0962	0.1	96 %	90-110
Thallium (205)	0.0913	0.1	91 %	90-110
Vanadium (51)	0.0949	0.1	95 %	90-110
Zinc (66)	0.0981	0.1	98 %	90-110

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/29/2015 12:38 PM
Analysis Time: 1238
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.105	0.1	105 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Barium (137)	0.104	0.1	104 %	90-110
Beryllium (9)	0.0983	0.1	98 %	90-110
Cadmium (111)	0.109	0.1	109 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Copper (63)	0.106	0.1	106 %	90-110
Manganese (55)	0.103	0.1	103 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.103	0.1	103 %	90-110
Selenium (78)	0.101	0.1	101 %	90-110
Selenium (82)	0.103	0.1	103 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110
Vanadium (51)	0.103	0.1	103 %	90-110
Zinc (66)	0.106	0.1	106 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/29/2015 1:29 PM
Analysis Time: 1329
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.106	0.1	106 %	90-110
Arsenic (75)	0.107	0.1	107 %	90-110
Barium (137)	0.105	0.1	105 %	90-110
Beryllium (9)	0.101	0.1	101 %	90-110
Cadmium (111)	0.109	0.1	109 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.105	0.1	105 %	90-110
Copper (63)	0.104	0.1	104 %	90-110
Manganese (55)	0.106	0.1	106 %	90-110
Nickel (60)	0.104	0.1	104 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.105	0.1	105 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Selenium (82)	0.107	0.1	107 %	90-110
Thallium (205)	0.105	0.1	105 %	90-110
Vanadium (51)	0.105	0.1	105 %	90-110
Zinc (66)	0.106	0.1	106 %	90-110

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/29/2015 2:04 PM
Analysis Time: 1404
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.107	0.1	107 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Barium (137)	0.108	0.1	108 %	90-110
Beryllium (9)	0.0971	0.1	97 %	90-110
Cadmium (111)	0.105	0.1	105 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.106	0.1	106 %	90-110
Copper (63)	0.105	0.1	105 %	90-110
Manganese (55)	0.107	0.1	107 %	90-110
Nickel (60)	0.107	0.1	107 %	90-110
Lead (208)	0.109	0.1	109 %	90-110
Antimony (121)	0.108	0.1	108 %	90-110
Selenium (78)	0.106	0.1	106 %	90-110
Selenium (82)	0.103	0.1	103 %	90-110
Thallium (205)	0.108	0.1	108 %	90-110
Vanadium (51)	0.107	0.1	107 %	90-110
Zinc (66)	0.107	0.1	107 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 5/31/2015 6:53 PM
Analysis Time: 1853
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.0968	0.1	97 %	90-110
Barium (137)	0.0951	0.1	95 %	90-110
Beryllium (9)	0.0916	0.1	92 %	90-110
Cadmium (111)	0.0965	0.1	97 %	90-110
Cobalt (59)	0.0965	0.1	97 %	90-110
Chromium (52)	0.0943	0.1	94 %	90-110
Copper (63)	0.0967	0.1	97 %	90-110
Manganese (55)	0.0942	0.1	94 %	90-110
Nickel (60)	0.0967	0.1	97 %	90-110
Lead (208)	0.0954	0.1	95 %	90-110
Antimony (121)	0.100	0.1	100 %	90-110
Selenium (78)	0.0937	0.1	94 %	90-110
Selenium (82)	0.0974	0.1	97 %	90-110
Thallium (205)	0.0960	0.1	96 %	90-110
Vanadium (51)	0.0950	0.1	95 %	90-110
Zinc (66)	0.0936	0.1	94 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICVLL
Analysis Date: 5/31/2015 7:00 PM
Analysis Time: 1900
Data File: 053115ICPMS8

Analyte	Conc.
Arsenic (75)	0.0010
Barium (137)	0.0023
Beryllium (9)	0.0010
Cadmium (111)	0.0010
Cobalt (59)	0.0010
Chromium (52)	0.0010
Copper (63)	0.0010
Manganese (55)	0.0023
Nickel (60)	0.0010
Lead (208)	0.0010
Antimony (121)	0.0011
Selenium (78)	0.0009
Selenium (82)	0.0012
Thallium (205)	0.0010
Vanadium (51)	0.0019
Zinc (66)	0.0093

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/31/2015 7:39 PM
Analysis Time: 1939
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.109	0.1	109 %	90-110
Barium (137)	0.102	0.1	102 %	90-110
Beryllium (9)	0.0980	0.1	98 %	90-110
Cadmium (111)	0.106	0.1	106 %	90-110
Cobalt (59)	0.102	0.1	102 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Copper (63)	0.102	0.1	102 %	90-110
Manganese (55)	0.102	0.1	102 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.102	0.1	102 %	90-110
Antimony (121)	0.100	0.1	100 %	90-110
Selenium (78)	0.104	0.1	104 %	90-110
Selenium (82)	0.0929	0.1	93 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110
Vanadium (51)	0.102	0.1	102 %	90-110
Zinc (66)	0.0997	0.1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 5/31/2015 8:14 PM
Analysis Time: 2014
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Arsenic (75)	0.0981	0.1	98 %	90-110
Barium (137)	0.103	0.1	103 %	90-110
Beryllium (9)	0.0968	0.1	97 %	90-110
Cadmium (111)	0.0967	0.1	97 %	90-110
Cobalt (59)	0.103	0.1	103 %	90-110
Chromium (52)	0.0998	0.1	100 %	90-110
Copper (63)	0.102	0.1	102 %	90-110
Manganese (55)	0.100	0.1	100 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Selenium (78)	0.103	0.1	103 %	90-110
Selenium (82)	0.0940	0.1	94 %	90-110
Thallium (205)	0.105	0.1	105 %	90-110
Vanadium (51)	0.101	0.1	101 %	90-110
Zinc (66)	0.0982	0.1	98 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 6/2/2015 9:29 AM
Analysis Time: 0929
Data File: 060215ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060215ICPMS8
Arsenic (75)	0.00025	< 0.00025	060215ICPMS8
Barium (137)	0.00036	< 0.00036	060215ICPMS8
Beryllium (9)	0.00012	< 0.00012	060215ICPMS8
Cadmium (111)	0.00016	< 0.00016	060215ICPMS8
Cobalt (59)	0.00026	< 0.00026	060215ICPMS8
Chromium (52)	0.00054	< 0.00054	060215ICPMS8
Copper (63)	0.00052	< 0.00052	060215ICPMS8
Manganese (55)	0.00025	< 0.00025	060215ICPMS8
Nickel (60)	0.00035	< 0.00035	060215ICPMS8
Lead (208)	0.00024	< 0.00024	060215ICPMS8
Antimony (121)	0.00021	0.000267	060215ICPMS8
Thallium (205)	0.00019	< 0.00019	060215ICPMS8
Vanadium (51)	0.00018	< 0.00018	060215ICPMS8
Zinc (66)	0.00256	< 0.00256	060215ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 6/2/2015 8:07 PM
Analysis Time: 2007
Data File: 060215ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060215ICPMS8
Arsenic (75)	0.00025	< 0.00025	060215ICPMS8
Barium (137)	0.00036	< 0.00036	060215ICPMS8
Beryllium (9)	0.00012	< 0.00012	060215ICPMS8
Cadmium (111)	0.00016	< 0.00016	060215ICPMS8
Cobalt (59)	0.00026	< 0.00026	060215ICPMS8
Chromium (52)	0.00054	< 0.00054	060215ICPMS8
Copper (63)	0.00052	< 0.00052	060215ICPMS8
Manganese (55)	0.00025	< 0.00025	060215ICPMS8
Nickel (60)	0.00035	< 0.00035	060215ICPMS8
Lead (208)	0.00024	< 0.00024	060215ICPMS8
Antimony (121)	0.00021	< 0.00021	060215ICPMS8
Thallium (205)	0.00019	< 0.00019	060215ICPMS8
Vanadium (51)	0.00018	< 0.00018	060215ICPMS8
Zinc (66)	0.00256	< 0.00256	060215ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/2/2015 10:26 PM
Analysis Time: 2226
Data File: 060215ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060215ICPMS8
Arsenic (75)	0.00025	< 0.00025	060215ICPMS8
Barium (137)	0.00036	< 0.00036	060215ICPMS8
Beryllium (9)	0.00012	< 0.00012	060215ICPMS8
Cadmium (111)	0.00016	< 0.00016	060215ICPMS8
Cobalt (59)	0.00026	< 0.00026	060215ICPMS8
Chromium (52)	0.00054	< 0.00054	060215ICPMS8
Copper (63)	0.00052	< 0.00052	060215ICPMS8
Manganese (55)	0.00025	< 0.00025	060215ICPMS8
Nickel (60)	0.00035	< 0.00035	060215ICPMS8
Lead (208)	0.00024	0.000403	060215ICPMS8
Antimony (121)	0.00021	< 0.00021	060215ICPMS8
Thallium (205)	0.00019	< 0.00019	060215ICPMS8
Vanadium (51)	0.00018	< 0.00018	060215ICPMS8
Zinc (66)	0.00256	0.0115	060215ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/3/2015 1:21 AM
Analysis Time: 0121
Data File: 060215ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060215ICPMS8
Arsenic (75)	0.00025	< 0.00025	060215ICPMS8
Barium (137)	0.00036	< 0.00036	060215ICPMS8
Beryllium (9)	0.00012	< 0.00012	060215ICPMS8
Cadmium (111)	0.00016	< 0.00016	060215ICPMS8
Cobalt (59)	0.00026	< 0.00026	060215ICPMS8
Chromium (52)	0.00054	< 0.00054	060215ICPMS8
Copper (63)	0.00052	< 0.00052	060215ICPMS8
Manganese (55)	0.00025	< 0.00025	060215ICPMS8
Nickel (60)	0.00035	< 0.00035	060215ICPMS8
Lead (208)	0.00024	0.000400	060215ICPMS8
Antimony (121)	0.00021	0.000236	060215ICPMS8
Thallium (205)	0.00019	< 0.00019	060215ICPMS8
Vanadium (51)	0.00018	< 0.00018	060215ICPMS8
Zinc (66)	0.00256	< 0.00256	060215ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/3/2015 1:48 AM
Analysis Time: 0148
Data File: 060215ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060215ICPMS8
Arsenic (75)	0.00025	< 0.00025	060215ICPMS8
Barium (137)	0.00036	< 0.00036	060215ICPMS8
Beryllium (9)	0.00012	< 0.00012	060215ICPMS8
Cadmium (111)	0.00016	< 0.00016	060215ICPMS8
Cobalt (59)	0.00026	< 0.00026	060215ICPMS8
Chromium (52)	0.00054	< 0.00054	060215ICPMS8
Copper (63)	0.00052	< 0.00052	060215ICPMS8
Manganese (55)	0.00025	< 0.00025	060215ICPMS8
Nickel (60)	0.00035	< 0.00035	060215ICPMS8
Lead (208)	0.00024	0.000407	060215ICPMS8
Antimony (121)	0.00021	0.000280	060215ICPMS8
Thallium (205)	0.00019	< 0.00019	060215ICPMS8
Vanadium (51)	0.00018	< 0.00018	060215ICPMS8
Zinc (66)	0.00256	< 0.00256	060215ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 5/31/2015 6:58 PM
Analysis Time: 1858
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	0.000804	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 5/31/2015 9:41 PM
Analysis Time: 2141
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	053115ICPMS8
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/1/2015 1:46 AM
Analysis Time: 0146
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/1/2015 2:07 AM
Analysis Time: 0207
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/1/2015 2:34 AM
Analysis Time: 0234
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/1/2015 2:53 AM
Analysis Time: 0253
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 6/3/2015 7:18 AM
Analysis Time: 0718
Data File: 060315ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060315ICPMS8
Arsenic (75)	0.00025	< 0.00025	060315ICPMS8
Barium (137)	0.00036	< 0.00036	060315ICPMS8
Beryllium (9)	0.00012	< 0.00012	060315ICPMS8
Cadmium (111)	0.00016	< 0.00016	060315ICPMS8
Cobalt (59)	0.00026	< 0.00026	060315ICPMS8
Chromium (52)	0.00054	< 0.00054	060315ICPMS8
Copper (63)	0.00052	< 0.00052	060315ICPMS8
Manganese (55)	0.00025	< 0.00025	060315ICPMS8
Nickel (60)	0.00035	< 0.00035	060315ICPMS8
Lead (208)	0.00024	< 0.00024	060315ICPMS8
Antimony (121)	0.00021	0.000474	060315ICPMS8
Selenium (78)	0.00038	< 0.00038	060315ICPMS8
Selenium (82)	0.00038	0.000678	060315ICPMS8
Thallium (205)	0.00019	< 0.00019	060315ICPMS8
Vanadium (51)	0.00018	< 0.00018	060315ICPMS8
Zinc (66)	0.00256	< 0.00256	060315ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/3/2015 9:46 AM
Analysis Time: 0946
Data File: 060315ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060315ICPMS8
Arsenic (75)	0.00025	< 0.00025	060315ICPMS8
Barium (137)	0.00036	< 0.00036	060315ICPMS8
Beryllium (9)	0.00012	< 0.00012	060315ICPMS8
Cadmium (111)	0.00016	< 0.00016	060315ICPMS8
Cobalt (59)	0.00026	< 0.00026	060315ICPMS8
Chromium (52)	0.00054	< 0.00054	060315ICPMS8
Copper (63)	0.00052	< 0.00052	060315ICPMS8
Manganese (55)	0.00025	< 0.00025	060315ICPMS8
Nickel (60)	0.00035	< 0.00035	060315ICPMS8
Lead (208)	0.00024	0.000421	060315ICPMS8
Antimony (121)	0.00021	0.000213	060315ICPMS8
Selenium (78)	0.00038	< 0.00038	060315ICPMS8
Selenium (82)	0.00038	0.000616	060315ICPMS8
Thallium (205)	0.00019	< 0.00019	060315ICPMS8
Vanadium (51)	0.00018	< 0.00018	060315ICPMS8
Zinc (66)	0.00256	< 0.00256	060315ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 6/3/2015 11:02 AM
Analysis Time: 1102
Data File: 060315ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	060315ICPMS8
Arsenic (75)	0.00025	< 0.00025	060315ICPMS8
Barium (137)	0.00036	< 0.00036	060315ICPMS8
Beryllium (9)	0.00012	< 0.00012	060315ICPMS8
Cadmium (111)	0.00016	< 0.00016	060315ICPMS8
Cobalt (59)	0.00026	< 0.00026	060315ICPMS8
Chromium (52)	0.00054	< 0.00054	060315ICPMS8
Copper (63)	0.00052	< 0.00052	060315ICPMS8
Manganese (55)	0.00025	< 0.00025	060315ICPMS8
Nickel (60)	0.00035	< 0.00035	060315ICPMS8
Lead (208)	0.00024	0.000426	060315ICPMS8
Antimony (121)	0.00021	0.000298	060315ICPMS8
Selenium (78)	0.00038	< 0.00038	060315ICPMS8
Selenium (82)	0.00038	< 0.00038	060315ICPMS8
Thallium (205)	0.00019	< 0.00019	060315ICPMS8
Vanadium (51)	0.00018	< 0.00018	060315ICPMS8
Zinc (66)	0.00256	< 0.00256	060315ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 5/29/2015 11:27 AM
Analysis Time: 1127
Data File: 052915ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	052915ICPMS9
Arsenic (75)	0.00025	< 0.00025	052915ICPMS9
Barium (137)	0.00036	< 0.00036	052915ICPMS9
Beryllium (9)	0.00012	< 0.00012	052915ICPMS9
Cadmium (111)	0.00016	< 0.00016	052915ICPMS9
Cobalt (59)	0.00026	< 0.00026	052915ICPMS9
Chromium (52)	0.00054	< 0.00054	052915ICPMS9
Copper (63)	0.00052	< 0.00052	052915ICPMS9
Manganese (55)	0.00025	< 0.00025	052915ICPMS9
Nickel (60)	0.00035	< 0.00035	052915ICPMS9
Lead (208)	0.00024	< 0.00024	052915ICPMS9
Antimony (121)	0.00021	0.000290	052915ICPMS9
Selenium (78)	0.00038	< 0.00038	052915ICPMS9
Selenium (82)	0.00038	0.00432	052915ICPMS9
Thallium (205)	0.00019	< 0.00019	052915ICPMS9
Vanadium (51)	0.00018	< 0.00018	052915ICPMS9
Zinc (66)	0.00256	< 0.00256	052915ICPMS9

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 5/29/2015 12:49 PM
Analysis Time: 1249
Data File: 052915ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	052915ICPMS9
Arsenic (75)	0.00025	< 0.00025	052915ICPMS9
Barium (137)	0.00036	< 0.00036	052915ICPMS9
Beryllium (9)	0.00012	< 0.00012	052915ICPMS9
Cadmium (111)	0.00016	< 0.00016	052915ICPMS9
Cobalt (59)	0.00026	< 0.00026	052915ICPMS9
Chromium (52)	0.00054	< 0.00054	052915ICPMS9
Copper (63)	0.00052	< 0.00052	052915ICPMS9
Manganese (55)	0.00025	< 0.00025	052915ICPMS9
Nickel (60)	0.00035	< 0.00035	052915ICPMS9
Lead (208)	0.00024	< 0.00024	052915ICPMS9
Antimony (121)	0.00021	< 0.00021	052915ICPMS9
Selenium (78)	0.00038	< 0.00038	052915ICPMS9
Selenium (82)	0.00038	0.00240	052915ICPMS9
Thallium (205)	0.00019	< 0.00019	052915ICPMS9
Vanadium (51)	0.00018	< 0.00018	052915ICPMS9
Zinc (66)	0.00256	< 0.00256	052915ICPMS9

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 5/29/2015 1:38 PM
Analysis Time: 1338
Data File: 052915ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	052915ICPMS9
Arsenic (75)	0.00025	< 0.00025	052915ICPMS9
Barium (137)	0.00036	< 0.00036	052915ICPMS9
Beryllium (9)	0.00012	< 0.00012	052915ICPMS9
Cadmium (111)	0.00016	< 0.00016	052915ICPMS9
Cobalt (59)	0.00026	< 0.00026	052915ICPMS9
Chromium (52)	0.00054	< 0.00054	052915ICPMS9
Copper (63)	0.00052	< 0.00052	052915ICPMS9
Manganese (55)	0.00025	< 0.00025	052915ICPMS9
Nickel (60)	0.00035	< 0.00035	052915ICPMS9
Lead (208)	0.00024	< 0.00024	052915ICPMS9
Antimony (121)	0.00021	< 0.00021	052915ICPMS9
Selenium (78)	0.00038	< 0.00038	052915ICPMS9
Selenium (82)	0.00038	0.00193	052915ICPMS9
Thallium (205)	0.00019	< 0.00019	052915ICPMS9
Vanadium (51)	0.00018	< 0.00018	052915ICPMS9
Zinc (66)	0.00256	< 0.00256	052915ICPMS9

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 5/29/2015 2:06 PM
Analysis Time: 1406
Data File: 052915ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	052915ICPMS9
Arsenic (75)	0.00025	< 0.00025	052915ICPMS9
Barium (137)	0.00036	< 0.00036	052915ICPMS9
Beryllium (9)	0.00012	< 0.00012	052915ICPMS9
Cadmium (111)	0.00016	< 0.00016	052915ICPMS9
Cobalt (59)	0.00026	< 0.00026	052915ICPMS9
Chromium (52)	0.00054	< 0.00054	052915ICPMS9
Copper (63)	0.00052	< 0.00052	052915ICPMS9
Manganese (55)	0.00025	< 0.00025	052915ICPMS9
Nickel (60)	0.00035	< 0.00035	052915ICPMS9
Lead (208)	0.00024	< 0.00024	052915ICPMS9
Antimony (121)	0.00021	< 0.00021	052915ICPMS9
Selenium (78)	0.00038	< 0.00038	052915ICPMS9
Selenium (82)	0.00038	< 0.00038	052915ICPMS9
Thallium (205)	0.00019	< 0.00019	052915ICPMS9
Vanadium (51)	0.00018	< 0.00018	052915ICPMS9
Zinc (66)	0.00256	< 0.00256	052915ICPMS9

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 5/31/2015 6:58 PM
Analysis Time: 1858
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	0.000804	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 5/31/2015 7:45 PM
Analysis Time: 1945
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 5/31/2015 8:21 PM
Analysis Time: 2021
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 5/31/2015 9:41 PM
Analysis Time: 2141
Data File: 053115ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	053115ICPMS8
Arsenic (75)	0.00025	< 0.00025	053115ICPMS8
Barium (137)	0.00036	< 0.00036	053115ICPMS8
Beryllium (9)	0.00012	< 0.00012	053115ICPMS8
Cadmium (111)	0.00016	< 0.00016	053115ICPMS8
Cobalt (59)	0.00026	< 0.00026	053115ICPMS8
Chromium (52)	0.00054	< 0.00054	053115ICPMS8
Copper (63)	0.00052	< 0.00052	053115ICPMS8
Manganese (55)	0.00025	< 0.00025	053115ICPMS8
Nickel (60)	0.00035	< 0.00035	053115ICPMS8
Lead (208)	0.00024	< 0.00024	053115ICPMS8
Antimony (121)	0.00021	< 0.00021	053115ICPMS8
Selenium (78)	0.00038	< 0.00038	053115ICPMS8
Selenium (82)	0.00038	< 0.00038	053115ICPMS8
Thallium (205)	0.00019	< 0.00019	053115ICPMS8
Vanadium (51)	0.00018	< 0.00018	053115ICPMS8
Zinc (66)	0.00256	< 0.00256	053115ICPMS8

*** - calibrated by linear regression*

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

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/2/2015 9:34 AM
Analysis Time: 0934
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	99.0	100	99 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0028	0		80 - 120
BARIUM (137)	0.0002	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	93.7	100	94 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0008	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	88.9	100	89 %	80 - 120
POTASSIUM (39)	97.7	100	98 %	80 - 120
MAGNESIUM (24)	98.0	100	98 %	80 - 120
MANGANESE (55)	0.0006	0		80 - 120
MOLYBDENUM (95)	2.12	2.00	106 %	80 - 120
SODIUM (23)	101	100	101 %	80 - 120
NICKEL (60)	0.0003	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0007	0		80 - 120
SELENIUM (78)	0.0002	0		80 - 120
SELENIUM (82)	0.0004	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.04	2.00	102 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0009	0		80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/2/2015 9:36 AM
Analysis Time: 0936
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0195	0.0200	97 %	80 - 120
ALUMINUM (27)	96.7	100	97 %	80 - 120
ARSENIC (75)	0.0190	0.0200	95 %	80 - 120
BORON (11)	0.0216	0		80 - 120
BARIUM (137)	0.0208	0.0200	104 %	80 - 120
BERYLLIUM (9)	0.0190	0.0200	95 %	80 - 120
CALCIUM (43)	93.9	100	94 %	80 - 120
CADMIUM (111)	0.0194	0.0200	97 %	80 - 120
COBALT (59)	0.0187	0.0200	93 %	80 - 120
CHROMIUM (52)	0.0190	0.0200	95 %	80 - 120
COPPER (63)	0.0189	0.0200	94 %	80 - 120
IRON (56)	87.9	100	88 %	80 - 120
POTASSIUM (39)	96.0	100	96 %	80 - 120
MAGNESIUM (24)	94.9	100	95 %	80 - 120
MANGANESE (55)	0.0186	0.0200	93 %	80 - 120
MOLYBDENUM (95)	2.06	2.00	103 %	80 - 120
SODIUM (23)	98.8	100	99 %	80 - 120
NICKEL (60)	0.0183	0.0200	91 %	80 - 120
LEAD (208)	0.0193	0.0200	97 %	80 - 120
ANTIMONY (121)	0.0216	0.0200	108 %	80 - 120
SELENIUM (78)	0.0199	0.0200	100 %	80 - 120
SELENIUM (82)	0.0175	0.0200	88 %	80 - 120
TIN (118)	0.0201	0.0200	101 %	80 - 120
STRONTIUM (88)	0.0209	0		80 - 120
TITANIUM (47)	1.99	2.00	99 %	80 - 120
THALLIUM (205)	0.0186	0.0200	93 %	80 - 120
VANADIUM (51)	0.0183	0.0200	92 %	80 - 120
ZINC (66)	0.0201	0.0200	100 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/2/2015 3:25 PM
Analysis Time: 1525
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	99.7	100	100 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0020	0		80 - 120
BARIUM (137)	0.0002	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	97.3	100	97 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0013	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	96.7	100	97 %	80 - 120
POTASSIUM (39)	100	100	100 %	80 - 120
MAGNESIUM (24)	98.4	100	98 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.17	2.00	109 %	80 - 120
SODIUM (23)	101	100	101 %	80 - 120
NICKEL (60)	0.0002	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	0.0011	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.03	2.00	102 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0010	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/2/2015 3:27 PM
Analysis Time: 1527
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0198	0.0200	99 %	80 - 120
ALUMINUM (27)	97.7	100	98 %	80 - 120
ARSENIC (75)	0.0212	0.0200	106 %	80 - 120
BORON (11)	0.0199	0		80 - 120
BARIUM (137)	0.0215	0.0200	108 %	80 - 120
BERYLLIUM (9)	0.0186	0.0200	93 %	80 - 120
CALCIUM (43)	95.0	100	95 %	80 - 120
CADMIUM (111)	0.0209	0.0200	105 %	80 - 120
COBALT (59)	0.0205	0.0200	103 %	80 - 120
CHROMIUM (52)	0.0208	0.0200	104 %	80 - 120
COPPER (63)	0.0208	0.0200	104 %	80 - 120
IRON (56)	96.6	100	97 %	80 - 120
POTASSIUM (39)	97.6	100	98 %	80 - 120
MAGNESIUM (24)	96.6	100	97 %	80 - 120
MANGANESE (55)	0.0205	0.0200	103 %	80 - 120
MOLYBDENUM (95)	2.15	2.00	107 %	80 - 120
SODIUM (23)	98.5	100	99 %	80 - 120
NICKEL (60)	0.0208	0.0200	104 %	80 - 120
LEAD (208)	0.0201	0.0200	100 %	80 - 120
ANTIMONY (121)	0.0217	0.0200	109 %	80 - 120
SELENIUM (78)	0.0208	0.0200	104 %	80 - 120
SELENIUM (82)	0.0212	0.0200	106 %	80 - 120
TIN (118)	0.0204	0.0200	102 %	80 - 120
STRONTIUM (88)	0.0215	0		80 - 120
TITANIUM (47)	1.99	2.00	100 %	80 - 120
THALLIUM (205)	0.0197	0.0200	98 %	80 - 120
VANADIUM (51)	0.0199	0.0200	99 %	80 - 120
ZINC (66)	0.0206	0.0200	103 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/2/2015 8:16 PM
Analysis Time: 2016
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0005	0		80 - 120
BARIUM (137)	0.0003	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	101	100	101 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0013	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	102	100	102 %	80 - 120
POTASSIUM (39)	103	100	103 %	80 - 120
MAGNESIUM (24)	104	100	104 %	80 - 120
MANGANESE (55)	0.0006	0		80 - 120
MOLYBDENUM (95)	2.26	2.00	113 %	80 - 120
SODIUM (23)	104	100	104 %	80 - 120
NICKEL (60)	0.0005	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0004	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	-0.0019	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0007	0		80 - 120
TITANIUM (47)	2.09	2.00	104 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0002	0		80 - 120
ZINC (66)	0.0015	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/2/2015 8:19 PM
Analysis Time: 2019
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0210	0.0200	105 %	80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0214	0.0200	107 %	80 - 120
BORON (11)	0.0203	0		80 - 120
BARIUM (137)	0.0221	0.0200	110 %	80 - 120
BERYLLIUM (9)	0.0200	0.0200	100 %	80 - 120
CALCIUM (43)	101	100	101 %	80 - 120
CADMIUM (111)	0.0220	0.0200	110 %	80 - 120
COBALT (59)	0.0208	0.0200	104 %	80 - 120
CHROMIUM (52)	0.0212	0.0200	106 %	80 - 120
COPPER (63)	0.0214	0.0200	107 %	80 - 120
IRON (56)	98.8	100	99 %	80 - 120
POTASSIUM (39)	102	100	102 %	80 - 120
MAGNESIUM (24)	102	100	102 %	80 - 120
MANGANESE (55)	0.0204	0.0200	102 %	80 - 120
MOLYBDENUM (95)	2.23	2.00	111 %	80 - 120
SODIUM (23)	103	100	103 %	80 - 120
NICKEL (60)	0.0209	0.0200	105 %	80 - 120
LEAD (208)	0.0211	0.0200	106 %	80 - 120
ANTIMONY (121)	0.0227	0.0200	114 %	80 - 120
SELENIUM (78)	0.0207	0.0200	103 %	80 - 120
SELENIUM (82)	0.0178	0.0200	89 %	80 - 120
TIN (118)	0.0218	0.0200	109 %	80 - 120
STRONTIUM (88)	0.0219	0		80 - 120
TITANIUM (47)	2.09	2.00	104 %	80 - 120
THALLIUM (205)	0.0202	0.0200	101 %	80 - 120
VANADIUM (51)	0.0199	0.0200	100 %	80 - 120
ZINC (66)	0.0222	0.0200	111 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/3/2015 3:33 AM
Analysis Time: 0333
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	104	100	104 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0036	0		80 - 120
BARIUM (137)	0.0004	0		80 - 120
BERYLLIUM (9)	0.0001	0		80 - 120
CALCIUM (43)	103	100	103 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0012	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	99.2	100	99 %	80 - 120
POTASSIUM (39)	104	100	104 %	80 - 120
MAGNESIUM (24)	105	100	105 %	80 - 120
MANGANESE (55)	0.0010	0		80 - 120
MOLYBDENUM (95)	2.26	2.00	113 %	80 - 120
SODIUM (23)	106	100	106 %	80 - 120
NICKEL (60)	0.0008	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	-0.0020	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.11	2.00	105 %	80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	-0.0002	0		80 - 120
ZINC (66)	0.0022	0		80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/3/2015 3:35 AM
Analysis Time: 0335
Data File: 060215ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0219	0.0200	110 %	80 - 120
ALUMINUM (27)	105	100	105 %	80 - 120
ARSENIC (75)	0.0215	0.0200	108 %	80 - 120
BORON (11)	0.0229	0		80 - 120
BARIUM (137)	0.0234	0.0200	117 %	80 - 120
BERYLLIUM (9)	0.0200	0.0200	100 %	80 - 120
CALCIUM (43)	105	100	105 %	80 - 120
CADMIUM (111)	0.0224	0.0200	112 %	80 - 120
COBALT (59)	0.0217	0.0200	108 %	80 - 120
CHROMIUM (52)	0.0224	0.0200	112 %	80 - 120
COPPER (63)	0.0218	0.0200	109 %	80 - 120
IRON (56)	103	100	103 %	80 - 120
POTASSIUM (39)	106	100	106 %	80 - 120
MAGNESIUM (24)	106	100	106 %	80 - 120
MANGANESE (55)	0.0220	0.0200	110 %	80 - 120
MOLYBDENUM (95)	2.29	2.00	115 %	80 - 120
SODIUM (23)	107	100	107 %	80 - 120
NICKEL (60)	0.0220	0.0200	110 %	80 - 120
LEAD (208)	0.0223	0.0200	111 %	80 - 120
ANTIMONY (121)	0.0236	0.0200	118 %	80 - 120
SELENIUM (78)	0.0222	0.0200	111 %	80 - 120
SELENIUM (82)	0.0202	0.0200	101 %	80 - 120
TIN (118)	0.0233	0.0200	117 %	80 - 120
STRONTIUM (88)	0.0238	0		80 - 120
TITANIUM (47)	2.14	2.00	107 %	80 - 120
THALLIUM (205)	0.0218	0.0200	109 %	80 - 120
VANADIUM (51)	0.0211	0.0200	105 %	80 - 120
ZINC (66)	0.0233	0.0200	116 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 5/31/2015 9:45 PM
Analysis Time: 2145
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0038	0		80 - 120
BARIUM (137)	0.0005	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	98.4	100	98 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0008	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	95.9	100	96 %	80 - 120
POTASSIUM (39)	101	100	101 %	80 - 120
MAGNESIUM (24)	98.2	100	98 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.16	2.00	108 %	80 - 120
SODIUM (23)	98.3	100	98 %	80 - 120
NICKEL (60)	0.0005	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0001	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	-0.0018	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0012	0		80 - 120
TITANIUM (47)	2.02	2.00	101 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0015	0		80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 5/31/2015 9:50 PM
Analysis Time: 2150
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0200	0.0200	100 %	80 - 120
ALUMINUM (27)	100	100	100 %	80 - 120
ARSENIC (75)	0.0196	0.0200	98 %	80 - 120
BORON (11)	0.0235	0		80 - 120
BARIUM (137)	0.0221	0.0200	110 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	96 %	80 - 120
CALCIUM (43)	100	100	100 %	80 - 120
CADMIUM (111)	0.0199	0.0200	99 %	80 - 120
COBALT (59)	0.0197	0.0200	98 %	80 - 120
CHROMIUM (52)	0.0203	0.0200	102 %	80 - 120
COPPER (63)	0.0196	0.0200	98 %	80 - 120
IRON (56)	97.1	100	97 %	80 - 120
POTASSIUM (39)	100	100	100 %	80 - 120
MAGNESIUM (24)	97.0	100	97 %	80 - 120
MANGANESE (55)	0.0210	0.0200	105 %	80 - 120
MOLYBDENUM (95)	2.14	2.00	107 %	80 - 120
SODIUM (23)	97.2	100	97 %	80 - 120
NICKEL (60)	0.0196	0.0200	98 %	80 - 120
LEAD (208)	0.0207	0.0200	103 %	80 - 120
ANTIMONY (121)	0.0228	0.0200	114 %	80 - 120
SELENIUM (78)	0.0207	0.0200	104 %	80 - 120
SELENIUM (82)	0.0207	0.0200	103 %	80 - 120
TIN (118)	0.0215	0.0200	108 %	80 - 120
STRONTIUM (88)	0.0231	0		80 - 120
TITANIUM (47)	2.01	2.00	100 %	80 - 120
THALLIUM (205)	0.0201	0.0200	101 %	80 - 120
VANADIUM (51)	0.0200	0.0200	100 %	80 - 120
ZINC (66)	0.0192	0.0200	96 %	80 - 120

*** - calibrated by linear regression*

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

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/1/2015 1:39 AM
Analysis Time: 0139
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	97.6	100	98 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0046	0		80 - 120
BARIUM (137)	0.0003	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	96.1	100	96 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0010	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	92.3	100	92 %	80 - 120
POTASSIUM (39)	96.4	100	96 %	80 - 120
MAGNESIUM (24)	97.0	100	97 %	80 - 120
MANGANESE (55)	0.0008	0		80 - 120
MOLYBDENUM (95)	2.08	2.00	104 %	80 - 120
SODIUM (23)	95.8	100	96 %	80 - 120
NICKEL (60)	0.0007	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0001	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	-0.0006	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.00	2.00	100 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0017	0		80 - 120

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/1/2015 1:41 AM
Analysis Time: 0141
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0195	0.0200	98 %	80 - 120
ALUMINUM (27)	95.1	100	95 %	80 - 120
ARSENIC (75)	0.0192	0.0200	96 %	80 - 120
BORON (11)	0.0227	0		80 - 120
BARIUM (137)	0.0205	0.0200	103 %	80 - 120
BERYLLIUM (9)	0.0183	0.0200	91 %	80 - 120
CALCIUM (43)	94.3	100	94 %	80 - 120
CADMIUM (111)	0.0197	0.0200	99 %	80 - 120
COBALT (59)	0.0198	0.0200	99 %	80 - 120
CHROMIUM (52)	0.0198	0.0200	99 %	80 - 120
COPPER (63)	0.0199	0.0200	100 %	80 - 120
IRON (56)	92.3	100	92 %	80 - 120
POTASSIUM (39)	94.5	100	94 %	80 - 120
MAGNESIUM (24)	94.2	100	94 %	80 - 120
MANGANESE (55)	0.0199	0.0200	99 %	80 - 120
MOLYBDENUM (95)	2.02	2.00	101 %	80 - 120
SODIUM (23)	93.4	100	93 %	80 - 120
NICKEL (60)	0.0199	0.0200	100 %	80 - 120
LEAD (208)	0.0207	0.0200	104 %	80 - 120
ANTIMONY (121)	0.0210	0.0200	105 %	80 - 120
SELENIUM (78)	0.0198	0.0200	99 %	80 - 120
SELENIUM (82)	0.0204	0.0200	102 %	80 - 120
TIN (118)	0.0202	0.0200	101 %	80 - 120
STRONTIUM (88)	0.0210	0		80 - 120
TITANIUM (47)	1.98	2.00	99 %	80 - 120
THALLIUM (205)	0.0197	0.0200	98 %	80 - 120
VANADIUM (51)	0.0191	0.0200	95 %	80 - 120
ZINC (66)	0.0181	0.0200	91 %	80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/1/2015 4:08 AM
Analysis Time: 0408
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
ALUMINUM (27)	101	100	101 %	80 - 120
ARSENIC (75)	0.0002	0		80 - 120
BORON (11)	0.0612	0		80 - 120
BARIUM (137)	0.0005	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	96.6	100	97 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0006	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	92.7	100	93 %	80 - 120
POTASSIUM (39)	98.0	100	98 %	80 - 120
MAGNESIUM (24)	95.7	100	96 %	80 - 120
MANGANESE (55)	0.0008	0		80 - 120
MOLYBDENUM (95)	2.08	2.00	104 %	80 - 120
SODIUM (23)	95.3	100	95 %	80 - 120
NICKEL (60)	0.0003	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0002	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	0.0001	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0011	0		80 - 120
TITANIUM (47)	1.96	2.00	98 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0002	0		80 - 120
ZINC (66)	0.0013	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/1/2015 4:11 AM
Analysis Time: 0411
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
ALUMINUM (27)	99.2	100	99 %	80 - 120
ARSENIC (75)	0.0189	0.0200	94 %	80 - 120
BORON (11)	0.0662	0		80 - 120
BARIUM (137)	0.0217	0.0200	108 %	80 - 120
BERYLLIUM (9)	0.0188	0.0200	94 %	80 - 120
CALCIUM (43)	96.1	100	96 %	80 - 120
CADMIUM (111)	0.0192	0.0200	96 %	80 - 120
COBALT (59)	0.0195	0.0200	97 %	80 - 120
CHROMIUM (52)	0.0194	0.0200	97 %	80 - 120
COPPER (63)	0.0193	0.0200	96 %	80 - 120
IRON (56)	94.2	100	94 %	80 - 120
POTASSIUM (39)	97.7	100	98 %	80 - 120
MAGNESIUM (24)	94.7	100	95 %	80 - 120
MANGANESE (55)	0.0205	0.0200	102 %	80 - 120
MOLYBDENUM (95)	2.13	2.00	106 %	80 - 120
SODIUM (23)	93.8	100	94 %	80 - 120
NICKEL (60)	0.0188	0.0200	94 %	80 - 120
LEAD (208)	0.0204	0.0200	102 %	80 - 120
ANTIMONY (121)	0.0223	0.0200	111 %	80 - 120
SELENIUM (78)	0.0189	0.0200	95 %	80 - 120
SELENIUM (82)	0.0206	0.0200	103 %	80 - 120
TIN (118)	0.0220	0.0200	110 %	80 - 120
STRONTIUM (88)	0.0235	0		80 - 120
TITANIUM (47)	1.95	2.00	97 %	80 - 120
THALLIUM (205)	0.0198	0.0200	99 %	80 - 120
VANADIUM (51)	0.0195	0.0200	97 %	80 - 120
ZINC (66)	0.0190	0.0200	95 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/3/2015 7:22 AM
Analysis Time: 0722
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	99.9	100	100 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0029	0		80 - 120
BARIUM (137)	0.0002	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	99.4	100	99 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0001	0		80 - 120
CHROMIUM (52)	0.0014	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	101	100	101 %	80 - 120
POTASSIUM (39)	98.8	100	99 %	80 - 120
MAGNESIUM (24)	99.0	100	99 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.19	2.00	110 %	80 - 120
SODIUM (23)	102	100	102 %	80 - 120
NICKEL (60)	0.0006	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0006	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	0.0019	0		80 - 120
TIN (118)	0.0000	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.04	2.00	102 %	80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0000	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/3/2015 7:25 AM
Analysis Time: 0725
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0208	0.0200	104 %	80 - 120
ALUMINUM (27)	99.1	100	99 %	80 - 120
ARSENIC (75)	0.0199	0.0200	99 %	80 - 120
BORON (11)	0.0214	0		80 - 120
BARIUM (137)	0.0220	0.0200	110 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	97 %	80 - 120
CALCIUM (43)	98.3	100	98 %	80 - 120
CADMIUM (111)	0.0207	0.0200	103 %	80 - 120
COBALT (59)	0.0205	0.0200	102 %	80 - 120
CHROMIUM (52)	0.0211	0.0200	106 %	80 - 120
COPPER (63)	0.0213	0.0200	106 %	80 - 120
IRON (56)	98.6	100	99 %	80 - 120
POTASSIUM (39)	97.4	100	97 %	80 - 120
MAGNESIUM (24)	97.7	100	98 %	80 - 120
MANGANESE (55)	0.0208	0.0200	104 %	80 - 120
MOLYBDENUM (95)	2.18	2.00	109 %	80 - 120
SODIUM (23)	99.3	100	99 %	80 - 120
NICKEL (60)	0.0204	0.0200	102 %	80 - 120
LEAD (208)	0.0203	0.0200	102 %	80 - 120
ANTIMONY (121)	0.0226	0.0200	113 %	80 - 120
SELENIUM (78)	0.0207	0.0200	104 %	80 - 120
SELENIUM (82)	0.0199	0.0200	99 %	80 - 120
TIN (118)	0.0214	0.0200	107 %	80 - 120
STRONTIUM (88)	0.0220	0		80 - 120
TITANIUM (47)	2.03	2.00	102 %	80 - 120
THALLIUM (205)	0.0198	0.0200	99 %	80 - 120
VANADIUM (51)	0.0201	0.0200	100 %	80 - 120
ZINC (66)	0.0201	0.0200	101 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 6/3/2015 1:51 PM
Analysis Time: 1351
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0030	0		80 - 120
BARIUM (137)	0.0002	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	102	100	102 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0001	0		80 - 120
CHROMIUM (52)	0.0014	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	104	100	104 %	80 - 120
POTASSIUM (39)	102	100	102 %	80 - 120
MAGNESIUM (24)	103	100	103 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.24	2.00	112 %	80 - 120
SODIUM (23)	105	100	105 %	80 - 120
NICKEL (60)	0.0011	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	0.0005	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	2.10	2.00	105 %	80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0004	0		80 - 120

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 6/3/2015 1:53 PM
Analysis Time: 1353
Data File: 060315ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0213	0.0200	107 %	80 - 120
ALUMINUM (27)	99.4	100	99 %	80 - 120
ARSENIC (75)	0.0204	0.0200	102 %	80 - 120
BORON (11)	0.0215	0		80 - 120
BARIUM (137)	0.0210	0.0200	105 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	97 %	80 - 120
CALCIUM (43)	99.8	100	100 %	80 - 120
CADMIUM (111)	0.0219	0.0200	110 %	80 - 120
COBALT (59)	0.0218	0.0200	109 %	80 - 120
CHROMIUM (52)	0.0223	0.0200	111 %	80 - 120
COPPER (63)	0.0222	0.0200	111 %	80 - 120
IRON (56)	103	100	103 %	80 - 120
POTASSIUM (39)	98.6	100	99 %	80 - 120
MAGNESIUM (24)	100	100	100 %	80 - 120
MANGANESE (55)	0.0216	0.0200	108 %	80 - 120
MOLYBDENUM (95)	2.21	2.00	111 %	80 - 120
SODIUM (23)	103	100	103 %	80 - 120
NICKEL (60)	0.0213	0.0200	106 %	80 - 120
LEAD (208)	0.0213	0.0200	106 %	80 - 120
ANTIMONY (121)	0.0227	0.0200	113 %	80 - 120
SELENIUM (78)	0.0203	0.0200	101 %	80 - 120
SELENIUM (82)	0.0218	0.0200	109 %	80 - 120
TIN (118)	0.0210	0.0200	105 %	80 - 120
STRONTIUM (88)	0.0217	0		80 - 120
TITANIUM (47)	2.04	2.00	102 %	80 - 120
THALLIUM (205)	0.0207	0.0200	103 %	80 - 120
VANADIUM (51)	0.0210	0.0200	105 %	80 - 120
ZINC (66)	0.0210	0.0200	105 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 5/29/2015 11:32 AM
Analysis Time: 1132
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	98.8	100	99 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0071	0		80 - 120
BARIUM (137)	0.0003	0		80 - 120
BERYLLIUM (9)	0.0001	0		80 - 120
CALCIUM (43)	95.4	100	95 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0014	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	94.2	100	94 %	80 - 120
POTASSIUM (39)	96.3	100	96 %	80 - 120
MAGNESIUM (24)	93.6	100	94 %	80 - 120
MANGANESE (55)	0.0006	0		80 - 120
MOLYBDENUM (95)	2.05	2.00	103 %	80 - 120
SODIUM (23)	95.9	100	96 %	80 - 120
NICKEL (60)	0.0002	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0002	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	0.0035	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	1.97	2.00	98 %	80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0021	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 5/29/2015 11:34 AM
Analysis Time: 1134
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0198	0.0200	99 %	80 - 120
ALUMINUM (27)	97.5	100	98 %	80 - 120
ARSENIC (75)	0.0200	0.0200	100 %	80 - 120
BORON (11)	0.0231	0		80 - 120
BARIUM (137)	0.0203	0.0200	101 %	80 - 120
BERYLLIUM (9)	0.0184	0.0200	92 %	80 - 120
CALCIUM (43)	95.2	100	95 %	80 - 120
CADMIUM (111)	0.0202	0.0200	101 %	80 - 120
COBALT (59)	0.0196	0.0200	98 %	80 - 120
CHROMIUM (52)	0.0204	0.0200	102 %	80 - 120
COPPER (63)	0.0202	0.0200	101 %	80 - 120
IRON (56)	94.3	100	94 %	80 - 120
POTASSIUM (39)	94.2	100	94 %	80 - 120
MAGNESIUM (24)	92.9	100	93 %	80 - 120
MANGANESE (55)	0.0197	0.0200	99 %	80 - 120
MOLYBDENUM (95)	2.01	2.00	101 %	80 - 120
SODIUM (23)	94.1	100	94 %	80 - 120
NICKEL (60)	0.0199	0.0200	99 %	80 - 120
LEAD (208)	0.0197	0.0200	98 %	80 - 120
ANTIMONY (121)	0.0212	0.0200	106 %	80 - 120
SELENIUM (78)	0.0193	0.0200	97 %	80 - 120
SELENIUM (82)	0.0250	0.0200	125 %	80 - 120
TIN (118)	0.0205	0.0200	103 %	80 - 120
STRONTIUM (88)	0.0212	0		80 - 120
TITANIUM (47)	1.95	2.00	98 %	80 - 120
THALLIUM (205)	0.0192	0.0200	96 %	80 - 120
VANADIUM (51)	0.0193	0.0200	97 %	80 - 120
ZINC (66)	0.0217	0.0200	109 %	80 - 120

*** - calibrated by linear regression*

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

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 5/29/2015 2:09 PM
Analysis Time: 1409
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	105	100	105 %	80 - 120
ARSENIC (75)	0.0002	0		80 - 120
BORON (11)	0.0230	0		80 - 120
BARIUM (137)	0.0004	0		80 - 120
BERYLLIUM (9)	0.0001	0		80 - 120
CALCIUM (43)	101	100	101 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0011	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	100	100	100 %	80 - 120
POTASSIUM (39)	101	100	101 %	80 - 120
MAGNESIUM (24)	99.0	100	99 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.15	2.00	108 %	80 - 120
SODIUM (23)	100	100	100 %	80 - 120
NICKEL (60)	0.0005	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0002	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	-0.0025	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0030	0		80 - 120
TITANIUM (47)	2.05	2.00	102 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0026	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 5/29/2015 2:11 PM
Analysis Time: 1411
Data File: 052915ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0206	0.0200	103 %	80 - 120
ALUMINUM (27)	105	100	105 %	80 - 120
ARSENIC (75)	0.0199	0.0200	99 %	80 - 120
BORON (11)	0.0383	0		80 - 120
BARIUM (137)	0.0229	0.0200	114 %	80 - 120
BERYLLIUM (9)	0.0189	0.0200	94 %	80 - 120
CALCIUM (43)	99.8	100	100 %	80 - 120
CADMIUM (111)	0.0198	0.0200	99 %	80 - 120
COBALT (59)	0.0196	0.0200	98 %	80 - 120
CHROMIUM (52)	0.0208	0.0200	104 %	80 - 120
COPPER (63)	0.0203	0.0200	101 %	80 - 120
IRON (56)	97.7	100	98 %	80 - 120
POTASSIUM (39)	102	100	102 %	80 - 120
MAGNESIUM (24)	98.2	100	98 %	80 - 120
MANGANESE (55)	0.0209	0.0200	104 %	80 - 120
MOLYBDENUM (95)	2.13	2.00	106 %	80 - 120
SODIUM (23)	100	100	100 %	80 - 120
NICKEL (60)	0.0197	0.0200	98 %	80 - 120
LEAD (208)	0.0208	0.0200	104 %	80 - 120
ANTIMONY (121)	0.0235	0.0200	118 %	80 - 120
SELENIUM (78)	0.0210	0.0200	105 %	80 - 120
SELENIUM (82)	0.0226	0.0200	113 %	80 - 120
TIN (118)	0.0224	0.0200	112 %	80 - 120
STRONTIUM (88)	0.0255	0		80 - 120
TITANIUM (47)	2.03	2.00	102 %	80 - 120
THALLIUM (205)	0.0203	0.0200	101 %	80 - 120
VANADIUM (51)	0.0204	0.0200	102 %	80 - 120
ZINC (66)	0.0215	0.0200	107 %	80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 5/31/2015 7:02 PM
Analysis Time: 1902
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
ALUMINUM (27)	96.8	100	97 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0033	0		80 - 120
BARIUM (137)	0.0005	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	95.7	100	96 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0012	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	92.9	100	93 %	80 - 120
POTASSIUM (39)	96.0	100	96 %	80 - 120
MAGNESIUM (24)	95.2	100	95 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.04	2.00	102 %	80 - 120
SODIUM (23)	95.2	100	95 %	80 - 120
NICKEL (60)	0.0007	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0001	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	0.0007	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0008	0		80 - 120
TITANIUM (47)	1.99	2.00	99 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0014	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 5/31/2015 7:04 PM
Analysis Time: 1904
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
ALUMINUM (27)	96.1	100	96 %	80 - 120
ARSENIC (75)	0.0203	0.0200	101 %	80 - 120
BORON (11)	0.0219	0		80 - 120
BARIUM (137)	0.0204	0.0200	102 %	80 - 120
BERYLLIUM (9)	0.0186	0.0200	93 %	80 - 120
CALCIUM (43)	95.8	100	96 %	80 - 120
CADMIUM (111)	0.0205	0.0200	102 %	80 - 120
COBALT (59)	0.0197	0.0200	99 %	80 - 120
CHROMIUM (52)	0.0201	0.0200	100 %	80 - 120
COPPER (63)	0.0196	0.0200	98 %	80 - 120
IRON (56)	92.3	100	92 %	80 - 120
POTASSIUM (39)	95.2	100	95 %	80 - 120
MAGNESIUM (24)	94.8	100	95 %	80 - 120
MANGANESE (55)	0.0197	0.0200	99 %	80 - 120
MOLYBDENUM (95)	2.03	2.00	101 %	80 - 120
SODIUM (23)	94.2	100	94 %	80 - 120
NICKEL (60)	0.0194	0.0200	97 %	80 - 120
LEAD (208)	0.0200	0.0200	100 %	80 - 120
ANTIMONY (121)	0.0212	0.0200	106 %	80 - 120
SELENIUM (78)	0.0198	0.0200	99 %	80 - 120
SELENIUM (82)	0.0199	0.0200	100 %	80 - 120
TIN (118)	0.0207	0.0200	104 %	80 - 120
STRONTIUM (88)	0.0208	0		80 - 120
TITANIUM (47)	1.97	2.00	99 %	80 - 120
THALLIUM (205)	0.0199	0.0200	99 %	80 - 120
VANADIUM (51)	0.0192	0.0200	96 %	80 - 120
ZINC (66)	0.0190	0.0200	95 %	80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 5/31/2015 9:45 PM
Analysis Time: 2145
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0001	0		80 - 120
BORON (11)	0.0038	0		80 - 120
BARIUM (137)	0.0005	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	98.4	100	98 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0000	0		80 - 120
CHROMIUM (52)	0.0008	0		80 - 120
COPPER (63)	0.0007	0		80 - 120
IRON (56)	95.9	100	96 %	80 - 120
POTASSIUM (39)	101	100	101 %	80 - 120
MAGNESIUM (24)	98.2	100	98 %	80 - 120
MANGANESE (55)	0.0007	0		80 - 120
MOLYBDENUM (95)	2.16	2.00	108 %	80 - 120
SODIUM (23)	98.3	100	98 %	80 - 120
NICKEL (60)	0.0005	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0001	0		80 - 120
SELENIUM (78)	0.0000	0		80 - 120
SELENIUM (82)	-0.0018	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0012	0		80 - 120
TITANIUM (47)	2.02	2.00	101 %	80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	-0.0001	0		80 - 120
ZINC (66)	0.0015	0		80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 5/31/2015 9:50 PM
Analysis Time: 2150
Data File: 053115ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0200	0.0200	100 %	80 - 120
ALUMINUM (27)	100	100	100 %	80 - 120
ARSENIC (75)	0.0196	0.0200	98 %	80 - 120
BORON (11)	0.0235	0		80 - 120
BARIUM (137)	0.0221	0.0200	110 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	96 %	80 - 120
CALCIUM (43)	100	100	100 %	80 - 120
CADMIUM (111)	0.0199	0.0200	99 %	80 - 120
COBALT (59)	0.0197	0.0200	98 %	80 - 120
CHROMIUM (52)	0.0203	0.0200	102 %	80 - 120
COPPER (63)	0.0196	0.0200	98 %	80 - 120
IRON (56)	97.1	100	97 %	80 - 120
POTASSIUM (39)	100	100	100 %	80 - 120
MAGNESIUM (24)	97.0	100	97 %	80 - 120
MANGANESE (55)	0.0210	0.0200	105 %	80 - 120
MOLYBDENUM (95)	2.14	2.00	107 %	80 - 120
SODIUM (23)	97.2	100	97 %	80 - 120
NICKEL (60)	0.0196	0.0200	98 %	80 - 120
LEAD (208)	0.0207	0.0200	103 %	80 - 120
ANTIMONY (121)	0.0228	0.0200	114 %	80 - 120
SELENIUM (78)	0.0207	0.0200	104 %	80 - 120
SELENIUM (82)	0.0207	0.0200	103 %	80 - 120
TIN (118)	0.0215	0.0200	108 %	80 - 120
STRONTIUM (88)	0.0231	0		80 - 120
TITANIUM (47)	2.01	2.00	100 %	80 - 120
THALLIUM (205)	0.0201	0.0200	101 %	80 - 120
VANADIUM (51)	0.0200	0.0200	100 %	80 - 120
ZINC (66)	0.0192	0.0200	96 %	80 - 120

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 060215ICPMS8

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	0908	X	X	X	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 15D23552	1	0911	X	X	X	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 15D23552	1	0913	X	X	X	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 15D23552	1	0916	X	X	X	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 15D23552	1	0918	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	1	0921	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6 15D23552	1	0924	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	0927		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICB	1	0929		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICVLL	1	0932		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICSA	1	0934																														
ICSAB	1	0936																														
CALBLK	1	1450	X	X	X	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 15D23552	1	1453	X	X	X	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 15D23552	1	1456	X	X	X	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 15D23552	1	1458	X	X	X	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 15D23552	1	1501	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	1	1503	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6 15D23552	1	1506	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICSA	1	1525																														
ICSAB	1	1527																														
CALBLK	1	1915	X	X	X	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 15D23552	1	1917	X	X	X	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 15D23552	1	1920	X	X	X	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 15D23552	1	1922	X	X	X	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 15D23552	1	1925	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	1	1927	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6 15D23552	1	1930	X	X	X	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	1959		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICB	1	2007		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICVLL	1	2011		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICSA	1	2016																														
ICSAB	1	2019																														
BLANK WG791805	1	2027			X				X		X													X								
LCS WG791805	1	2029			X				X		X													X								
LCSD WG791805	1	2031			X				X		X													X								
CCV	1	2217		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
CCB	1	2226		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
L767115-02 WG791805	1	0116			X				X		X													X								
CCV	1	0118		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 060215ICPMS8

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
CCB	1	0121		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
L767115-05 WG791805	1	0123			X				X		X													X								
L767115-09 WG791805	1	0125			X				X		X													X								
L767115-07 WG791805	1	0130		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
L767115-07MS WG791805	1	0132		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
L767115-07MSD WG791805	1	0134		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
CCV	1	0146		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
CCB	1	0148		X	X	X	X		X		X	X	X		X			X		X				X				X			X	X
ICSA	1	0333																														
ICSAB	1	0335																														

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 053115ICPMS8

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	1803	X	X	X	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 15D23552	1	1806	X	X	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 15D23552	1	1808	X	X	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 15D23552	1	1811	X	X	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 15D23552	1	1813	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD5 15D23552	1	1816	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD6 15D23552	1	1818	X	X	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	1853		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICB	1	1858		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICVLL	1	1900		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICSA	1	1902																														
ICSAB	1	1904																														
CALBLK	1	2033	X	X	X	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 15D23552	1	2036	X	X	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 15D23552	1	2038	X	X	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 15D23552	1	2041	X	X	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 15D23552	1	2043	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD5 15D23552	1	2046	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD6 15D23552	1	2048	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
ICV	1	2128		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	2141		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICVLL	1	2143		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	2145																														
ICSAB	1	2150																														
ICSA	1	0139																														
ICSAB	1	0141																														
CCV	1	0144		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	0146		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
BLANK WG791805	1	0149		X		X	X					X	X		X			X		X		X						X			X	X
LCS WG791805	1	0151		X		X	X					X	X		X			X		X		X						X			X	X
LCSD WG791805	1	0153		X		X	X					X	X		X			X		X		X						X			X	X
L766887-01SD WG791805	5	0158		X		X	X					X	X		X			X		X		X						X			X	X
L766887-01MS WG791805	1	0200		X		X	X					X	X		X			X		X		X						X			X	X
L766887-01MSD WG791805	1	0202		X		X	X					X	X		X			X		X		X						X			X	X
CCV	1	0205		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	0207		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
L767115-02 WG791805	1	0230		X		X	X					X	X		X			X		X		X						X			X	X
CCV	1	0232		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	0234		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
L767115-05 WG791805	1	0237		X		X	X					X	X		X			X		X		X						X			X	X

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 053115ICPMS8

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
L767115-09 WG791805	1	0239		X		X	X					X	X		X			X		X		X						X			X	X
CCV	1	0251		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	0253		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICSA	1	0408																														
ICSAB	1	0411																														

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 060315ICPMS8

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	0656	X	X	X	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 15D23552	1	0701	X	X	X	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 15D23552	1	0703	X	X	X	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 15D23552	1	0706	X	X	X	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 15D23552	1	0708	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	1	0711	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6 15D23552	1	0713	X	X	X	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	0716		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	0718		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICVLL	1	0720		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	0722																														
ICSAB	1	0725																														
CCV	1	0942		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCB	1	0946		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L766887-01SD WG791805	5	1034			X				X		X													X								
L766887-01MS WG791805	1	1037			X				X		X													X								
L766887-01MSD WG791805	1	1039			X				X		X													X								
L767115-07 WG791805	1	1044																				X										
L767115-07MS WG791805	1	1046																				X										
L767115-07MSD WG791805	1	1049																				X										
CCV	1	1059		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCB	1	1102		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	1351																														
ICSAB	1	1353																														

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 052915ICPMS8

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	0912	X	X	X	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 15D23552	1	0915	X	X	X	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 15D23552	1	0918	X	X	X	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 15D23552	1	0921	X	X	X	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 15D23552	1	0923	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	1	0926	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6 15D23552	1	0929	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	0932		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	0934		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICVLL	1	0937		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	0939																														
ICSAB	1	0942																														
CALBLK	1	1108	X	X	X	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 15D23552	1	1110	X	X	X	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 15D23552	1	1113	X	X	X	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 15D23552	1	1115	X	X	X	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 15D23552	1	1118	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5 15D23552	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
STD6 15D23552	1	1123	X	X	X	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	1125		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	1127		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	1132																														
ICSAB	1	1134																														
BLANK WG791888	1	1251		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
LCS WG791888	1	1253		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
LCSD WG791888	1	1256		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L766887-01SD WG791888	5	1300		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L766887-01MS WG791888	1	1302		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L766887-01MSD WG791888	1	1305		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-03 WG791888	1	1351		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-04 WG791888	1	1353		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-06 WG791888	1	1355		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-06MS WG791888	1	1357		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-06MSD WG791888	1	1400		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L767115-08 WG791888	1	1402		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	1409																														
ICSAB	1	1411																														

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 053115ICPMS8

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	1803	X	X	X	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 15D23552	1	1806	X	X	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 15D23552	1	1808	X	X	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 15D23552	1	1811	X	X	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 15D23552	1	1813	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD5 15D23552	1	1816	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD6 15D23552	1	1818	X	X	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	1853		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICB	1	1858		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICVLL	1	1900		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
ICSA	1	1902																														
ICSAB	1	1904																														
BLANK WG791888	1	1916			X																											
LCS WG791888	1	1918			X																											
LCSD WG791888	1	1921			X																											
L766887-01SD WG791888	5	1925			X																											
L766887-01MS WG791888	1	1928			X																											
L766887-01MSD WG791888	1	1930			X																											
CCV	1	1939		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	1945		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
L767115-03 WG791888	1	2000			X																											
L767115-04 WG791888	1	2002			X																											
L767115-08 WG791888	1	2005			X																											
L767115-06 WG791888	1	2007			X																											
L767115-06MS WG791888	1	2009			X																											
L767115-06MSD WG791888	1	2011			X																											
CCV	1	2014		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CCB	1	2021		X	X	X	X		X		X	X	X		X			X		X		X						X			X	X
CALBLK	1	2033	X	X	X	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 15D23552	1	2036	X	X	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 15D23552	1	2038	X	X	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 15D23552	1	2041	X	X	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 15D23552	1	2043	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD5 15D23552	1	2046	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD6 15D23552	1	2048	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
ICV	1	2128		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	2141		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICVLL	1	2143		X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	2145																														
ICSAB	1	2150																														

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 06/02/15 09:32 Standard ID: 15D27686
Sequence: 10

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		415679.5			0.910	107	80	120	387896.1	
Y	TELLURIUM (NO HE)	125		8948.493			1.31	106	80	120	8403.690	
Y	BISMUTH (NO HE)	209		268393.4			0.780	101	80	120	264949.5	
Y	SCANDIUM	45		43153.53			0.450	105	80	120	41129.95	
Y	GERMANIUM	72		28796.66			0.430	106	80	120	27259.22	
Y	RHODIUM	103		427713.8			0.600	104	80	120	411184.4	
Y	TELLURIUM	125		2725.837			2.69	104	80	120	2626.930	
Y	TELLURIUM (HIGH HE)	125		4433.043			2.29	107	80	120	4161.300	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ANTIMONY	121		0.001199425	0.001199425	13.960	120	1	200	0.0010	0.9999883
Y	ARSENIC	75		0.001002026	0.001002026	1.72	100	1	200	0.0010	0.9998281
Y	BARIUM	137		0.002203557	0.002203557	10.530	110	1	200	0.0020	0.9998210
Y	BERYLLIUM	9		0.0009344940	0.0009344940	19.220	93	1	200	0.0010	0.9999923
Y	CADMIUM	111		0.001003062	0.001003062	2.25	100	1	200	0.0010	0.9998634
Y	CHROMIUM	52		0.0008717460	0.0008717460	10.410	87	1	200	0.0010	0.9999572
Y	COBALT	59		0.001011562	0.001011562	7.81	101	1	200	0.0010	0.9999266
Y	COPPER	63		0.001067124	0.001067124	2.55	107	1	200	0.0010	0.9999191
Y	IRON	56		0.1095264	0.1095264	2.19	2	1	200	5	0.9999764
Y	LEAD	208		0.001061955	0.001061955	18.610	106	1	200	0.0010	0.9999803
Y	MANGANESE	55		0.001984691	0.001984691	8.39	99	1	200	0.0020	0.9999868
Y	MOLYBDENUM	95		0.001998937	0.001998937	2.85	100	1	200	0.0020	0.9999741
Y	NICKEL	60		0.001192751	0.001192751	15.520	119	1	200	0.0010	0.9998939
Y	SELENIUM	82		-0.00003017500	-0.00003017500		0	1	200	0.0010	0.9999073
Y	SELENIUM	78		0.0009876320	0.0009876320	5.32	99	1	200	0.0010	0.9999398
Y	SILVER	107		0.001015423	0.001015423	9.38	102	1	200	0.0010	0.9999885
Y	THALLIUM	205		0.0009073190	0.0009073190	4.80	91	1	200	0.0010	0.9999928
Y	TIN	118		0.001046018	0.001046018	4.32	105	1	200	0.0010	0.9999380
Y	VANADIUM	51		0.001984355	0.001984355	6.76	99	1	200	0.0020	0.9999924
Y	ZINC	66		0.01046516	0.01046516	2.71	105	1	200	0.01	0.9998407
N	ALUMINUM	27		0.1022779	0.1022779	3.12					0.9998135
N	BORON	11		0.02066121	0.02066121	3.65					0.9999781
N	CALCIUM	43		0.9247969	0.9247969	11.090					0.9998784
N	MAGNESIUM	24		0.9744303	0.9744303	2.15					0.9999822

Sample ID: LLICV
Analysis Date: 06/02/15 09:32 Standard ID: 15D27686
Sequence: 10

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	POTASSIUM	39		1.039567	1.039567	2.82					0.9999301
N	SODIUM	23		1.015155	1.015155	2.40					0.9999372
N	STRONTIUM	88		0.009546377	0.009546377	0.600					0.9999613
N	THORIUM	232		0.009391954	0.009391954	1.63					0.9999878
N	TITANIUM	47		0.009864996	0.009864996	5.83					0.9999865
N	URANIUM	238		0.009789102	0.009789102	1.08					0.9999951

Sample ID: LLICV
Analysis Date: 06/02/15 20:11 Standard ID: 15D27686
Sequence: 139

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		369505.8			0.960	98	80	120	376909.8	
Y	TELLURIUM (NO HE)	125		8875.107			1.37	97	80	120	9124.150	
Y	BISMUTH (NO HE)	209		282965.9			1.81	94	80	120	300150.8	
Y	SCANDIUM	45		41418.63			1.57	98	80	120	42205.37	
Y	GERMANIUM	72		29287.62			1.58	98	80	120	29959.02	
Y	RHODIUM	103		429308.5			0.600	98	80	120	438194.4	
Y	TELLURIUM	125		2552.473			4.16	101	80	120	2533.580	
Y	TELLURIUM (HIGH HE)	125		4342.353			3.69	97	80	120	4459.720	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ANTIMONY	121		0.001135939	0.001135939	10.560	114	1	200	0.0010	0.9999801
Y	ARSENIC	75		0.0009869310	0.0009869310	5.98	99	1	200	0.0010	0.9998007
Y	BARIUM	137		0.002133049	0.002133049	19.750	107	1	200	0.0020	0.9999901
Y	BERYLLIUM	9		0.0009899690	0.0009899690	11.540	99	1	200	0.0010	0.9999825
Y	CADMIUM	111		0.001021172	0.001021172	10.560	102	1	200	0.0010	0.9998103
Y	CHROMIUM	52		0.001026712	0.001026712	8.06	103	1	200	0.0010	0.9999964
Y	COBALT	59		0.0009731970	0.0009731970	8.25	97	1	200	0.0010	0.9999615
Y	COPPER	63		0.001038626	0.001038626	12.690	104	1	200	0.0010	0.9999738
Y	IRON	56		0.1248340	0.1248340	1.76	2	1	200	5	0.9999535
Y	LEAD	208		0.001054012	0.001054012	8.17	105	1	200	0.0010	0.9999772
Y	MANGANESE	55		0.002437824	0.002437824	4.06	122	1	200	0.0020	0.9999939
Y	MOLYBDENUM	95		0.002090666	0.002090666	0.980	105	1	200	0.0020	0.9999882
Y	NICKEL	60		0.001315411	0.001315411	12.060	132	1	200	0.0010	0.9999112
Y	SELENIUM	82		-0.0008482010	-0.0008482010		0	1	200	0.0010	0.9997837
Y	SELENIUM	78		0.0009951040	0.0009951040	2.97	100	1	200	0.0010	0.9999170
Y	SILVER	107		0.001016470	0.001016470	2.86	102	1	200	0.0010	0.9999094
Y	THALLIUM	205		0.001077085	0.001077085	7.98	108	1	200	0.0010	0.9999767
Y	TIN	118		0.001317267	0.001317267	12.660	132	1	200	0.0010	0.9999942
Y	VANADIUM	51		0.001884685	0.001884685	4.00	94	1	200	0.0020	0.9999976
Y	ZINC	66		0.01139361	0.01139361	4.04	114	1	200	0.01	0.9999674
N	ALUMINUM	27		0.1081935	0.1081935	0.430					0.9999970
N	BORON	11		0.01838345	0.01838345	8.58					0.9999606
N	CALCIUM	43		0.9660118	0.9660118	5.17					0.9998720
N	MAGNESIUM	24		1.005334	1.005334	1.74					0.9998790

Sample ID: LLICV
Analysis Date: 06/02/15 20:11 Standard ID: 15D27686
Sequence: 139

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	POTASSIUM	39		1.030348	1.030348	0.160					0.9998571	
N	SODIUM	23		0.9601026	0.9601026	2.03					0.9999750	
N	STRONTIUM	88		0.01055908	0.01055908	2.32					0.9999907	
N	THORIUM	232		2259.010	2259.010	0.830					0.7368589	NT
N	TITANIUM	47		0.01006365	0.01006365	2.46					0.9999966	
N	URANIUM	238		0.01017534	0.01017534	1.10					0.9999825	

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 05/31/15 21:43 Standard ID: 15D27686
Sequence: 54

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		422795.6			0.870	101	80	120	417017.5	
Y	TELLURIUM (NO HE)	125		8209.130			1.15	100	80	120	8200.240	
Y	BISMUTH (NO HE)	209		240455.9			0.640	104	80	120	231432.3	
Y	SCANDIUM	45		38316.81			1.15	105	80	120	36540.28	
Y	GERMANIUM	72		27454.06			1.74	105	80	120	26120.58	
Y	RHODIUM	103		402377.6			0.650	106	80	120	379600.9	
Y	TELLURIUM	125		2245.750			2.39	107	80	120	2104.613	
Y	TELLURIUM (HIGH HE)	125		3882.547			1.21	103	80	120	3773.850	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ANTIMONY	121		0.001032937	0.001032937	6.19	103	1	200	0.0010	0.9989927
Y	ARSENIC	75		0.0009906940	0.0009906940	5.07	99	1	200	0.0010	0.9981339
Y	BARIUM	137		0.001741643	0.001741643	3.96	87	1	200	0.0020	0.9992525
Y	BERYLLIUM	9		0.001028672	0.001028672	4.93	103	1	200	0.0010	0.9990432
Y	CADMIUM	111		0.001084416	0.001084416	1.76	108	1	200	0.0010	0.9982316
Y	CHROMIUM	52		0.0005651370	0.0005651370	13.010	57	1	200	0.0010	0.9991353
Y	COBALT	59		0.001011977	0.001011977	2.21	101	1	200	0.0010	0.9990837
Y	COPPER	63		0.0009582340	0.0009582340	3.19	96	1	200	0.0010	0.9989862
Y	IRON	56		0.04759274	0.04759274	1.69	1	1	200	5	0.9992863
Y	LEAD	208		0.001061831	0.001061831	11.180	106	1	200	0.0010	0.9990164
Y	MANGANESE	55		0.002452933	0.002452933	11.390	123	1	200	0.0020	0.9990639
Y	MOLYBDENUM	95		0.002080201	0.002080201	6.01	104	1	200	0.0020	0.9989929
Y	NICKEL	60		0.001014485	0.001014485	14.350	101	1	200	0.0010	0.9989511
Y	SELENIUM	82		0.0003529010	0.0003529010	194.1300	35	1	200	0.0010	0.9992130
Y	SELENIUM	78		0.0009352250	0.0009352250	16.960	94	1	200	0.0010	0.9988407
Y	SILVER	107		0.0009680340	0.0009680340	3.77	97	1	200	0.0010	0.9958956
Y	THALLIUM	205		0.001009559	0.001009559	5.20	101	1	200	0.0010	0.9989130
Y	TIN	118		0.001510969	0.001510969	2.86	151	1	200	0.0010	0.9991168
Y	VANADIUM	51		0.002070770	0.002070770	9.55	104	1	200	0.0020	0.9991363
Y	ZINC	66		0.008537585	0.008537585	1.97	85	1	200	0.01	0.9990539
N	ALUMINUM	27		0.005646546	0.005646546	146.3300					0.9988690
N	BORON	11		0.001663607	0.001663607	14.720					0.9990279
N	CALCIUM	43		-0.03361405	-0.03361405						0.9989050
N	MAGNESIUM	24		0.01281964	0.01281964	16.370					0.9989295

Sample ID: LLICV
Analysis Date: 05/31/15 21:43 Standard ID: 15D27686
Sequence: 54

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	POTASSIUM	39		-0.01579040	-0.01579040						0.9989878	
N	SODIUM	23		0.03977389	0.03977389	21.780					0.9988657	
N	STRONTIUM	88		0.0002938860	0.0002938860	14.150					0.9990901	
N	THORIUM	232		0.1959844	0.1959844	43.860					0.8755205	NT
N	TITANIUM	47		0.009821054	0.009821054	5.73					0.9988393	
N	URANIUM	238		0.01000351	0.01000351	1.78					0.9990344	

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 06/03/15 07:20 Standard ID: 15D27686
Sequence: 10

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		452483.9			0.880	100	80	120	451169.1	
Y	TELLURIUM (NO HE)	125		9782.380			2.00	106	80	120	9232.013	
Y	BISMUTH (NO HE)	209		299584.7			0.670	103	80	120	290522.5	
Y	SCANDIUM	45		39300.53			1.22	102	80	120	38678.87	
Y	GERMANIUM	72		29111.73			1.33	102	80	120	28625.18	
Y	RHODIUM	103		445447.7			0.990	103	80	120	431612.5	
Y	TELLURIUM	125		2808.083			4.30	112	80	120	2508.020	
Y	TELLURIUM (HIGH HE)	125		4311.007			2.30	103	80	120	4182.300	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ANTIMONY	121		0.001408241	0.001408241	4.94	141	1	200	0.0010	0.9998766
Y	ARSENIC	75		0.0009598970	0.0009598970	5.29	96	1	200	0.0010	0.9998804
Y	BARIUM	137		0.002141238	0.002141238	8.13	107	1	200	0.0020	0.9999976
Y	BERYLLIUM	9		0.001109423	0.001109423	4.96	111	1	200	0.0010	0.9999843
Y	CADMIUM	111		0.0009951120	0.0009951120	5.48	100	1	200	0.0010	0.9998561
Y	CHROMIUM	52		0.0009628180	0.0009628180	9.00	96	1	200	0.0010	0.9999381
Y	COBALT	59		0.001048653	0.001048653	2.09	105	1	200	0.0010	0.9998516
Y	COPPER	63		0.001074937	0.001074937	3.78	107	1	200	0.0010	0.9999413
Y	IRON	56		0.1027396	0.1027396	1.19	2	1	200	5	0.9995609
Y	LEAD	208		0.001078999	0.001078999	2.12	108	1	200	0.0010	0.9999877
Y	MANGANESE	55		0.002432656	0.002432656	5.24	122	1	200	0.0020	0.9999204
Y	MOLYBDENUM	95		0.002067051	0.002067051	0.610	103	1	200	0.0020	0.9999803
Y	NICKEL	60		0.001508830	0.001508830	17.940	151	1	200	0.0010	0.9999612
Y	SELENIUM	82		0.002197210	0.002197210	75.690	220	1	200	0.0010	0.9998948
Y	SELENIUM	78		0.001146615	0.001146615	3.89	115	1	200	0.0010	0.9998768
Y	SILVER	107		0.0009898530	0.0009898530	3.81	99	1	200	0.0010	0.9998306
Y	THALLIUM	205		0.0009354600	0.0009354600	6.09	94	1	200	0.0010	0.9999582
Y	TIN	118		0.001049834	0.001049834	14.680	105	1	200	0.0010	0.9999816
Y	VANADIUM	51		0.001940696	0.001940696	4.83	97	1	200	0.0020	0.9999005
Y	ZINC	66		0.01007122	0.01007122	4.40	101	1	200	0.01	0.9999758
N	ALUMINUM	27		0.09913416	0.09913416	2.26					0.9999519
N	BORON	11		0.02026721	0.02026721	4.43					0.9999382
N	CALCIUM	43		0.9742936	0.9742936	6.87					0.9998413
N	MAGNESIUM	24		0.9813330	0.9813330	2.21					0.9999486

Sample ID: LLICV
Analysis Date: 06/03/15 07:20 Standard ID: 15D27686
Sequence: 10

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	POTASSIUM	39		1.000372	1.000372	1.85					0.9999410
N	SODIUM	23		0.9808915	0.9808915	0.730					0.9999904
N	STRONTIUM	88		0.009770420	0.009770420	0.140					0.9999740
N	THORIUM	232		0.009427715	0.009427715	1.08					0.9999726
N	TITANIUM	47		0.01012295	0.01012295	2.86					0.9999912
N	URANIUM	238		0.009980037	0.009980037	3.40					0.9999557

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 05/31/15 19:00 Standard ID: 15D27686
Sequence: 14

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		370848.5			0.680	99	80	120	375661.1	
Y	TELLURIUM (NO HE)	125		7691.053			2.60	102	80	120	7537.643	
Y	BISMUTH (NO HE)	209		220454.0			0.910	97	80	120	226424.1	
Y	SCANDIUM	45		32487.20			1.13	99	80	120	32694.33	
Y	GERMANIUM	72		23908.82			1.01	98	80	120	24276.10	
Y	RHODIUM	103		357864.5			1.80	99	80	120	361295.5	
Y	TELLURIUM	125		1995.710			2.27	99	80	120	2024.607	
Y	TELLURIUM (HIGH HE)	125		3509.450			2.15	99	80	120	3544.453	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ANTIMONY	121		0.001086075	0.001086075	24.530	109	1	200	0.0010	0.9989927
Y	ARSENIC	75		0.0009994880	0.0009994880	6.02	100	1	200	0.0010	0.9981339
Y	BARIUM	137		0.002264041	0.002264041	5.84	113	1	200	0.0020	0.9992525
Y	BERYLLIUM	9		0.0009616250	0.0009616250	3.27	96	1	200	0.0010	0.9990432
Y	CADMIUM	111		0.001048171	0.001048171	3.19	105	1	200	0.0010	0.9982316
Y	CHROMIUM	52		0.0009619090	0.0009619090	7.74	96	1	200	0.0010	0.9991353
Y	COBALT	59		0.001001311	0.001001311	3.75	100	1	200	0.0010	0.9990837
Y	COPPER	63		0.001043235	0.001043235	7.51	104	1	200	0.0010	0.9989862
Y	IRON	56		0.1147758	0.1147758	1.81	2	1	200	5	0.9992863
Y	LEAD	208		0.001029665	0.001029665	12.20	103	1	200	0.0010	0.9990164
Y	MANGANESE	55		0.002251293	0.002251293	5.84	113	1	200	0.0020	0.9990639
Y	MOLYBDENUM	95		0.002040334	0.002040334	1.35	102	1	200	0.0020	0.9989929
Y	NICKEL	60		0.0009649130	0.0009649130	6.59	96	1	200	0.0010	0.9989511
Y	SELENIUM	82		0.001176649	0.001176649	222.3500	118	1	200	0.0010	0.9992130
Y	SELENIUM	78		0.0008983440	0.0008983440	13.030	90	1	200	0.0010	0.9988407
N	SILVER	107		0.001019848	0.001019848	0.860	102	1	200	0.0010	0.9958956
Y	THALLIUM	205		0.001045636	0.001045636	2.86	105	1	200	0.0010	0.9989130
Y	TIN	118		0.001073669	0.001073669	8.55	107	1	200	0.0010	0.9991168
Y	VANADIUM	51		0.001876044	0.001876044	11.10	94	1	200	0.0020	0.9991363
Y	ZINC	66		0.009335030	0.009335030	1.96	93	1	200	0.01	0.9990539
N	ALUMINUM	27		0.1016689	0.1016689	5.67					0.9988690
N	BORON	11		0.01848119	0.01848119	1.13					0.9990279
N	CALCIUM	43		0.9859518	0.9859518	6.46					0.9989050
N	MAGNESIUM	24		0.9869040	0.9869040	2.01					0.9989295

Sample ID: LLICV
Analysis Date: 05/31/15 19:00 Standard ID: 15D27686
Sequence: 14

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	POTASSIUM	39		0.9579437	0.9579437	2.42					0.9989878	
N	SODIUM	23		0.9231935	0.9231935	1.21					0.9988657	
N	STRONTIUM	88		0.01004555	0.01004555	3.41					0.9990901	
N	THORIUM	232		212.5730	212.5730	1.97					0.8755205	NT
N	TITANIUM	47		0.01032940	0.01032940	8.64					0.9988393	
N	URANIUM	238		0.01021725	0.01021725	1.74					0.9990344	

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV-2
Analysis Date: 05/29/15 11:30 Standard ID: 15D27686
Sequence: 11

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		302895.1			0.600	101	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6274.777			0.890	100	80	120	6265.890	
N	BISMUTH (NO HE)	209		170736.2			1.07	98	80	120	174092.8	
N	SCANDIUM	45		30684.41			1.18	101	80	120	30491.83	
N	GERMANIUM	72		21371.54			2.02	101	80	120	21201.24	
N	RHODIUM	103		292017.7			0.670	100	80	120	291010.8	
N	TELLURIUM	125		1732.340			6.56	103	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2887.303			1.98	97	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ANTIMONY	121		0.001230694	0.001230694	7.12	123	1	200	0.0010	0.9990225
N	ARSENIC	75		0.001029698	0.001029698	3.19	103	1	200	0.0010	0.9989971
N	BARIUM	137		0.001884580	0.001884580	23.110	94	1	200	0.0020	0.9987916
N	BERYLLIUM	9		0.001021200	0.001021200	8.48	102	1	200	0.0010	0.9990101
N	CADMIUM	111		0.001042532	0.001042532	5.71	104	1	200	0.0010	0.9989989
N	CHROMIUM	52		0.0009244710	0.0009244710	14.810	92	1	200	0.0010	0.9989089
N	COBALT	59		0.0009149750	0.0009149750	8.65	91	1	200	0.0010	0.9989117
N	COPPER	63		0.001038113	0.001038113	10.50	104	1	200	0.0010	0.9989498
N	IRON	56		0.1065389	0.1065389	2.85	2	1	200	5	0.9989669
N	LEAD	208		0.001055559	0.001055559	5.67	106	1	200	0.0010	0.9989934
N	MANGANESE	55		0.002063662	0.002063662	11.950	103	1	200	0.0020	0.9990983
N	MOLYBDENUM	95		0.001940923	0.001940923	5.16	97	1	200	0.0020	0.9989786
N	NICKEL	60		0.001069682	0.001069682	28.020	107	1	200	0.0010	0.9989501
N	SELENIUM	82		0.003661783	0.003661783	49.860	366	1	200	0.0010	0.9987922
N	SELENIUM	78		0.001089329	0.001089329	3.94	109	1	200	0.0010	0.9990875
N	SILVER	107		0.001002029	0.001002029	4.06	100	1	200	0.0010	0.9989952
N	THALLIUM	205		0.001020695	0.001020695	0.780	102	1	200	0.0010	0.9991087
N	TIN	118		0.001218882	0.001218882	12.50	122	1	200	0.0010	0.9989136
N	VANADIUM	51		0.001912110	0.001912110	8.24	96	1	200	0.0020	0.9989052
N	ZINC	66		0.01052216	0.01052216	4.93	105	1	200	0.01	0.9989143
N	ALUMINUM	27		0.1008785	0.1008785	5.82					0.9991538
N	BORON	11		0.02214110	0.02214110	0.950					0.9989560
N	CALCIUM	43		1.042058	1.042058	9.47					0.9992496
N	MAGNESIUM	24		0.9901836	0.9901836	3.14					0.9989057

Sample ID: LLICV-2
Analysis Date: 05/29/15 11:30 Standard ID: 15D27686
Sequence: 11

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	POTASSIUM	39		0.9804080	0.9804080	4.47					0.9990583	
N	SODIUM	23		0.9616189	0.9616189	2.38					0.9990552	
N	STRONTIUM	88		0.009641884	0.009641884	3.94					0.9989336	
N	THORIUM	232		210.6145	210.6145	1.83					0.9272145	NT
N	TITANIUM	47		0.009481282	0.009481282	9.27					0.9991894	
N	URANIUM	238		0.009712829	0.009712829	1.56					0.9989302	

Raw Data

3015A GW/SPLP ICPMS Metals Prep Benchsheet

Batch #: WG791805

Prep Start Date/Time: 05/28/15 09:22 **Analyst:** EL684 **Analyst Verified pH:** 708 TB **Leachate Fluid Type:** N/A **Vessel ESC Lot ID:** ESC 31549 **Pipette ID:** F13409151 **Carousel ID:** 7 **Microwave ID:** MD2861

Dig. Start Date/Time: 5/28/15 1025 **Prep End Date/Time:** 05/28/15 10:40 **SOP:** 340704 **Method:** 3015

1:1 Nitric Acid: 15E21113 Amt. Used: 3 mL Exp. Date:10/21/15 **1:1 Hydrochloric Acid:** 15E07353 Amt. Used: 2 mL Exp. Date:05/06/16 **Low Spike:** 15D07739 Amt. Used: 0.45 mL Exp. Date:05/01/16

Sample Number	Qualifiers	Initial Sample Vol (mL)	Final Sample Vol.	Sample Description	Initial pH	Sample Comments
BLANK		45	50	NANOPURE	7	
LCS		45	50	NANOPURE	7	
LCSD		45	50	NANOPURE	7	
MS(L766887-01)		45	50	CLEAR	2	
MS(L767115-07)		45	50	CLEAR	2	
MSD(L766887-01)		45	50	CLEAR	2	
MSD(L767115-07)		45	50	CLEAR	2	
1. L766725-01		45	50	CLEAR	2	EDD/QC4/DOD - Refer to L766731
2. L766725-02		45	50	CLEAR	2	EDD/QC4/DOD - Refer to L766731
3. L766887-01		45	50	CLEAR	2	EDD/QC4/DOD - MS/MSD sample - JCR
4. L766887-02		45	50	CLEAR	2	EDD/QC4/DOD
5. L766887-03		45	50	CLEAR	2	EDD/QC4/DOD
6. L766887-04		45	50	CLEAR	2	EDD/QC4/DOD
7. L766918-02		45	50	RED SEDAMENT	2	EDD/QC4/DOD
8. L766918-04		45	50	SEDAMENT	2	EDD/QC4/DOD
9. L766918-06		45	50	CLEAR	2	EDD/QC4/DOD
10. L766918-08		45	50	CLEAR	2	EDD/QC4/DOD
11. L767115-02		45	50	CLEAR	2	EDD/QC4/DOD

12. L767115-05		45	50	CLEAR	2	EDD/QC4/DOD
13. L767115-07		45	50	CLEAR	2	EDD/QC4/DOD - MS/MSD sample EDD/QC4/DOD - MS/MSD sampleclient req MS/D'' ||
14. L767115-09		45	50	CLEAR	2	EDD/QC4/DOD
15. L767115-10		45	50	CLEAR	2	EDD/QC4/DOD

Comments:

Reviewed By:JPD638 on 05/28/15 10:40:55

3015A GW/SPLP ICPMS Metals Prep Benchsheet

Batch #: WG791888

Prep Start Date/Time: 05/28/15 09:44 **Analyst:** BKB669 **Analyst Verified pH:** 669 **Leachate Fluid Type:** N/A **Vessel ESC Lot ID:** ESC31549 **Pipette ID:** F13412501 **Carousel ID:** 5 **Microwave ID:** MD9972

Dig. Start Date/Time: 05/28/15 10:40 AM **Prep End Date/Time:** 05/28/15 10:25 **SOP:** 340704 **Method:** 3015

1:1 Nitric Acid: 15E21113 Amt. Used: 3 mL Exp. Date:10/21/15 **1:1 Hydrochloric Acid:** 15E07353 Amt. Used: 2 mL Exp. Date:05/06/16 **Low Spike:** 15D07739 Amt. Used: 0.45 mL Exp. Date:05/01/16

Sample Number	Qualifiers	Initial Sample Vol (mL)	Final Sample Vol.	Sample Description	Initial pH	Sample Comments
BLANK		45	50	Nanopure	N/A	
LCS		45	50	Nanopure	N/A	
LCSD		45	50	Nanopure	N/A	
MS(L766887-01)		45	50	Clear	2.0	
MS(L767115-06)		45	50	Clear	2.0	
MSD(L766887-01)		45	50	Clear	2.0	
MSD(L767115-06)		45	50	Clear	2.0	
1. L766887-01		45	50	Clear	2.0	EDD/QC4/DOD - MS/MSD sample - JCR
2. L766887-02		45	50	Clear	2.0	EDD/QC4/DOD
3. L766887-03		45	50	Clear	2.0	EDD/QC4/DOD
4. L766887-04		45	50	Clear	2.0	EDD/QC4/DOD
5. L766918-01		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
6. L766918-03		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
7. L766918-05		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
8. L766918-07		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD
9. L767115-03		45	50	Cloudy	2.0	Field Filtered. EDD/QC4/DOD
10. L767115-04		45	50	Cloudy	2.0	Field Filtered. EDD/QC4/DOD
11. L767115-06		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD - MS/MSD sample

12. L767115-08		45	50	Clear	2.0	Field Filtered. EDD/QC4/DOD

Comments:

Reviewed By:BKB669 on 05/28/15 10:26:09

Tune Report

Batch Folder	C:\Agilent\ICPMH\1\DATA\053115ICPMS9.b
Acq. Date-Time	2015-05-31 17:47
Report Comment	I.S. 15D26679; EPA TUNE 15D23558
Instrument Name	G8403A JP14400452

[No Gas]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
9		4243	42431.33	5000.00	
24		116735	1167351.66	10000.00	
25		12179	121785.92	10000.00	
26		6640	66398.67	10000.00	
59		58994	589942.46	10000.00	
115		97028	970277.57	10000.00	
206		24698	246975.34	10000.00	
207		22189	221889.42	10000.00	
208		53112	531120.45	10000.00	

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
9	0	0 - 5	
24	1	1 - 1	
25	0	0 - 5	
26	0	0 - 5	
59	1	0 - 5	
115	1	0 - 5	
206	0	0 - 5	
207	0	0 - 5	
208	0	0 - 5	

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	1.08	5.00	
24	1.23	5.00	
25	1.34	5.00	
26	1.05	5.00	
59	1.07	5.00	
115	1.59	5.00	
206	2.00	5.00	
207	2.01	5.00	
208	2.07	5.00	

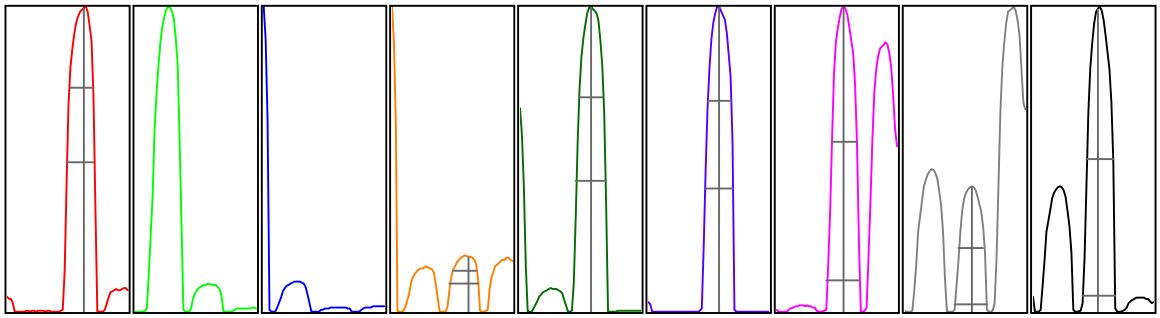
Mass	Background (Actual)	Background (Required)	Background (Flag)
9			
24			
25			
26			
59			
115			
206			
207			

Tune Report

208

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	4202	4276	4299	4246	4193
24	114633	118215	117799	116933	116095
25	11970	12251	12282	12347	12043
26	6566	6690	6627	6731	6586
59	59991	59240	58709	58585	58446
115	99269	97761	96746	96042	95321
206	25383	24968	24524	24522	24091
207	22872	22371	22022	21951	21727
208	54765	53331	52833	52906	51726

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	868.40	9.40	8.9 - 9.1	[F]	0.57	0.667	0.850	
24			23.9 - 24.1	[F]			0.850	[F]
25			24.9 - 25.1	[F]			0.850	[F]
26	1059.03	26.40	25.9 - 26.1	[F]	0.58	0.680	0.850	
59	10379.95	59.30	58.9 - 59.1	[F]	0.59	0.713	0.850	
115	18051.33	115.30	114.9 - 115.1	[F]	0.56	0.676	0.850	
206	4177.02	206.20	205.9 - 206.1	[F]	0.60	0.795	0.850	
207	3693.09	207.20	206.9 - 207.1	[F]	0.62	0.785	0.850	
208	8893.61	208.15	207.9 - 208.1	[F]	0.63	0.786	0.850	

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-90 V	Deflect	15.4 V
Omega Lens	9.3 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V

Tune Report

He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Tune Report

Batch Folder	C:\Agilent\ICPMH\1\DATA\053115ICPMS9.b
Acq. Date-Time	2015-05-31 18:05
Report Comment	I.S. 15D26679; EPA TUNE 15D23558
Instrument Name	G8403A JP14400452

[No Gas]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
9		3223	32225.17	5000.00	
24		103558	1035577.62	10000.00	
25		9738	97377.55	10000.00	
26		5171	51705.17	10000.00	
59		44333	443325.93	10000.00	
115		73292	732923.18	10000.00	
206		18892	188918.38	10000.00	
207		16725	167247.75	10000.00	
208		40239	402391.80	10000.00	

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
9	0	0 - 5	
24	1	1 - 1	
25	0	0 - 5	
26	0	0 - 5	
59	0	0 - 5	
115	1	0 - 5	
206	0	0 - 5	
207	0	0 - 5	
208	0	0 - 5	

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	29.14	5.00	[F]
24	3.34	5.00	
25	19.64	5.00	[F]
26	18.90	5.00	[F]
59	28.52	5.00	[F]
115	28.33	5.00	[F]
206	30.09	5.00	[F]
207	29.95	5.00	[F]
208	30.19	5.00	[F]

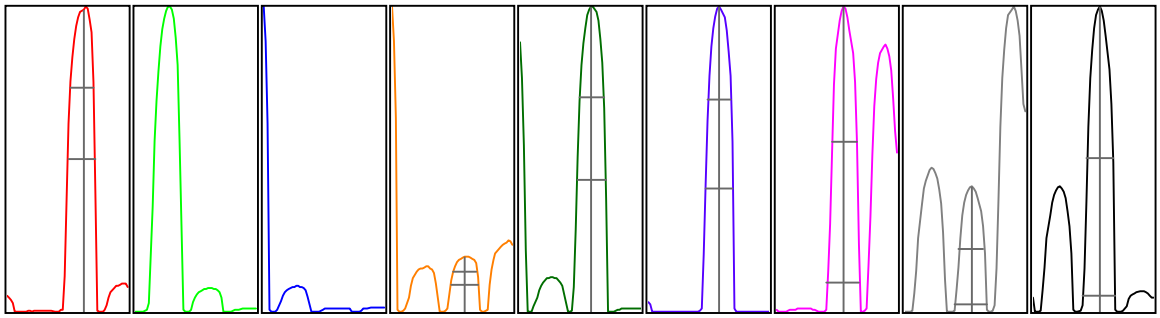
Mass	Background (Actual)	Background (Required)	Background (Flag)
9			
24			
25			
26			
59			
115			
206			
207			

Tune Report

208

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	1661	3019	3755	3782	3894
24	97414	104561	105453	104828	105533
25	6537	9376	10856	10868	11052
26	3556	4931	5758	5747	5862
59	23359	41506	50997	52631	53171
115	39008	68191	84770	86341	88151
206	9370	17845	22044	22543	22658
207	8362	15744	19347	20036	20134
208	20012	37630	47300	47856	48398

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	671.67	9.40	8.9 - 9.1	[F]	0.56	0.658	0.850	
24			23.9 - 24.1	[F]			0.850	[F]
25			24.9 - 25.1	[F]			0.850	[F]
26	827.49	26.35	25.9 - 26.1	[F]	0.58	0.676	0.850	
59	7880.68	59.30	58.9 - 59.1	[F]	0.58	0.705	0.850	
115	13864.32	115.30	114.9 - 115.1	[F]	0.55	0.667	0.850	
206	3253.81	206.20	205.9 - 206.1	[F]	0.59	0.792	0.850	
207	2845.52	207.20	206.9 - 207.1	[F]	0.61	0.781	0.850	
208	6913.92	208.20	207.9 - 208.1	[F]	0.62	0.781	0.850	

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-90 V	Deflect	15.4 V
Omega Lens	9.3 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V

Tune Report

He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Tune Report

Batch Folder	C:\Agilent\ICPMH\1\DATA\053115ICPMS9.b
Acq. Date-Time	2015-05-31 22:10
Report Comment	I.S. 15D26679; EPA TUNE 15D23558
Instrument Name	G8403A JP14400452

[No Gas]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
9		2566	25659.41	5000.00	
24		118910	1189099.86	10000.00	
25		7246	72461.44	10000.00	
26		4023	40233.12	10000.00	
59		44797	447972.44	10000.00	
115		55041	550413.02	10000.00	
206		9340	93399.74	10000.00	
207		8383	83829.38	10000.00	
208		19767	197673.40	10000.00	

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
9	0	0 - 5	
24	1	1 - 1	
25	0	0 - 5	
26	0	0 - 5	
59	0	0 - 5	
115	0	0 - 5	
206	0	0 - 5	
207	0	0 - 5	
208	0	0 - 5	

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	1.45	5.00	
24	1.77	5.00	
25	2.75	5.00	
26	2.36	5.00	
59	1.41	5.00	
115	1.85	5.00	
206	1.58	5.00	
207	1.24	5.00	
208	1.86	5.00	

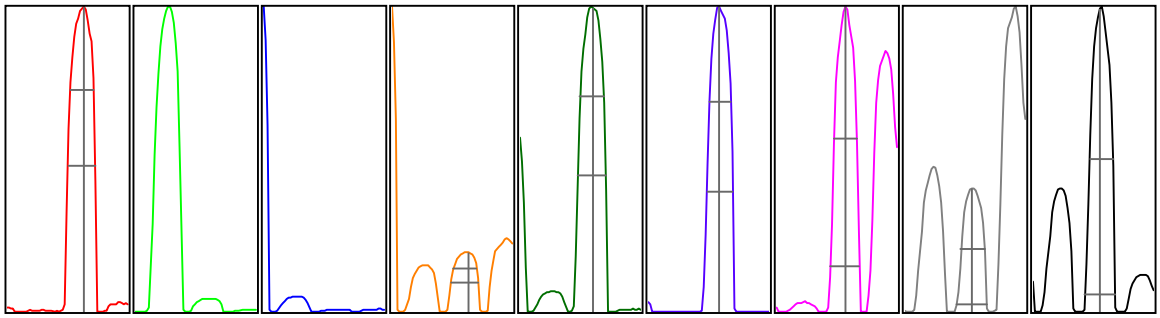
Mass	Background (Actual)	Background (Required)	Background (Flag)
9			
24			
25			
26			
59			
115			
206			
207			

Tune Report

208

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	2513	2607	2591	2546	2573
24	115587	120793	120673	118797	118700
25	6913	7418	7368	7231	7301
26	3887	4146	3992	4033	4059
59	44437	45803	45048	44348	44351
115	54251	56698	55348	54416	54493
206	9370	9569	9305	9287	9169
207	8323	8545	8346	8281	8419
208	19522	20335	19944	19565	19470

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	546.85	9.40	8.9 - 9.1	[F]	0.56	0.665	0.850	
24			23.9 - 24.1	[F]			0.850	[F]
25			24.9 - 25.1	[F]			0.850	[F]
26	667.76	26.40	25.9 - 26.1	[F]	0.56	0.666	0.850	
59	8289.96	59.35	58.9 - 59.1	[F]	0.57	0.684	0.850	
115	11032.39	115.30	114.9 - 115.1	[F]	0.51	0.633	0.850	
206	1762.21	206.25	205.9 - 206.1	[F]	0.54	0.710	0.850	
207	1502.95	207.20	206.9 - 207.1	[F]	0.57	0.739	0.850	
208	3677.44	208.20	207.9 - 208.1	[F]	0.56	0.729	0.850	

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-90 V	Deflect	14.6 V
Omega Lens	8.7 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V

Tune Report

He Flow	0.0 mL/min	OctP RF	170 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:00:59
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	55.33	19.91
B	11	45	No Gas	516.68	7.82
Tl	205	209	No Gas	183.34	8.33
Pb	208	209	No Gas	333.34	20.42
Th	232	209	No Gas	21.67	35.25
U	238	209	No Gas	436.68	13.42
Na	23	45	He	116692.03	0.30
Mg	24	45	He	473.36	24.03
Al	27	45	He	206.67	13.32
K	39	45	He	61591.13	2.89
Ca	43	45	He	40.00	26.46
Ti	47	45	He	8.33	42.14
V	51	72	He	461.68	0.63
Cr	52	72	He	2356.88	1.83
Mn	55	72	He	266.67	13.17
Fe	56	72	He	27823.77	0.50
Co	59	72	He	253.34	26.28
Ni	60	72	He	343.34	22.24
Cu	63	72	He	473.35	8.00
Zn	66	72	He	685.03	5.11
As	75	125	He	39.83	12.57
Sr	88	103	He	90.00	40.06
Mo	95	103	He	3.33	100.05
Ag	107	103	He	33.33	26.47
Cd	111	125	He	1.33	43.30
Sn	118	103	He	20.00	0.00
Sb	121	103	He	16.67	124.90
Ba	137	103	He	56.67	50.94
Se	78	125	HEHe	2.42	26.03

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	369086.49	0.78
Te (No He)	125	No Gas	7496.51	2.91

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	223006.87	0.78
Sc	45	He	32675.47	1.48
Ge	72	He	23623.90	1.41
Rh	103	He	355197.84	0.21
Te	125	He	2016.83	3.32
Te (HE He)	125	HEHe	3552.13	0.77

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:03:46
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	16.00	25.00
B	11	45	No Gas	450.01	4.01
Tl	205	209	No Gas	70.00	14.29
Pb	208	209	No Gas	120.00	14.43
Th	232	209	No Gas	3.33	173.21
U	238	209	No Gas	106.67	47.19
Na	23	45	He	114219.16	1.31
Mg	24	45	He	433.36	26.24
Al	27	45	He	138.33	15.05
K	39	45	He	60560.00	3.89
Ca	43	45	He	31.33	13.29
Ti	47	45	He	6.67	17.32
V	51	72	He	401.68	9.51
Cr	52	72	He	2550.25	0.00
Mn	55	72	He	260.01	11.54
Fe	56	72	He	27215.78	0.28
Co	59	72	He	93.33	22.30
Ni	60	72	He	323.34	21.72
Cu	63	72	He	433.35	2.66
Zn	66	72	He	808.36	4.68
As	75	125	He	43.17	8.85
Sr	88	103	He	86.67	17.63
Mo	95	103	He	5.56	91.64
Ag	107	103	He	31.11	6.18
Sn	118	103	He	16.67	124.90
Sb	121	103	He	13.33	43.30
Ba	137	103	He	3.33	173.21
Se	78	125	HEHe	2.58	29.57

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	375661.07	0.31
Te (No He)	125	No Gas	7537.64	1.32
Bi (No He)	209	No Gas	226424.12	0.60

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	32694.33	1.96
Ge	72	He	24276.10	2.23
Rh	103	He	361295.53	0.64
Te	125	He	2024.61	1.56
Te (HE He)	125	HEHe	3544.45	3.22

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:06:18
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	365.34	3.85
B	11	45	No Gas	660.02	23.07
Tl	205	209	No Gas	2973.73	4.11
Pb	208	209	No Gas	2253.58	1.68
Th	232	209	No Gas	6.67	43.30
U	238	209	No Gas	3320.49	5.12
Na	23	45	He	134522.16	1.73
Mg	24	45	He	11331.50	6.11
Al	27	45	He	710.02	8.80
K	39	45	He	74135.41	4.29
Ca	43	45	He	68.00	11.76
Ti	47	45	He	54.33	12.25
V	51	72	He	1776.79	7.73
Cr	52	72	He	4053.93	4.44
Mn	55	72	He	1206.74	2.53
Fe	56	72	He	57293.47	0.54
Co	59	72	He	2500.26	7.01
Ni	60	72	He	1046.73	15.45
Cu	63	72	He	2076.86	6.36
Zn	66	72	He	716.69	3.30
As	75	125	He	314.50	4.41
Sr	88	103	He	1220.08	9.13
Mo	95	103	He	757.80	2.65
Ag	107	103	He	2162.40	2.54
Cd	111	125	He	316.67	4.83
Sn	118	103	He	780.04	1.28
Sb	121	103	He	1066.72	14.23
Ba	137	103	He	346.68	6.00
Se	78	125	HEHe	21.92	2.63

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	381066.92	0.68	375661.073333333	101.44	60	120	
Te (No He)	125	No Gas	7654.37	2.55	7537.64333333333	101.55	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	225884.35	1.87	226424.12	99.76	60	120	
Sc	45	He	32989.41	3.01	32694.3333333333	100.9	60	120	
Ge	72	He	24130.33	1.21	24276.1033333333	99.4	60	120	
Rh	103	He	365160.55	0.66	361295.526666667	101.07	60	120	
Te	125	He	1977.93	4.89	2024.60666666667	97.69	60	120	
Te (HE He)	125	HEHe	3594.47	2.69	3544.45333333333	101.41	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:08:49
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	694.02	2.46
B	11	45	No Gas	840.03	15.30
Tl	205	209	No Gas	5928.10	3.57
Pb	208	209	No Gas	4537.54	5.04
Th	232	209	No Gas	3.33	173.21
U	238	209	No Gas	6698.52	3.60
Na	23	45	He	151107.52	0.28
Mg	24	45	He	21690.01	4.52
Al	27	45	He	1141.72	0.51
K	39	45	He	86630.32	0.37
Ca	43	45	He	120.00	4.41
Ti	47	45	He	91.67	17.12
V	51	72	He	3037.01	4.95
Cr	52	72	He	5397.72	3.42
Mn	55	72	He	1993.50	5.22
Fe	56	72	He	56801.46	2.07
Co	59	72	He	4750.89	4.02
Ni	60	72	He	1523.45	7.23
Cu	63	72	He	3830.58	2.35
Zn	66	72	He	975.04	7.66
As	75	125	He	605.34	2.94
Sr	88	103	He	2350.24	3.40
Mo	95	103	He	1444.53	1.79
Ag	107	103	He	4436.29	0.49
Cd	111	125	He	627.68	3.92
Sn	118	103	He	2516.94	6.62
Sb	121	103	He	2113.54	1.79
Ba	137	103	He	703.37	11.40
Se	78	125	HEHe	46.50	11.38

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	380714.72	1.06	375661.073333333	101.35	60	120	
Te (No He)	125	No Gas	7834.48	1.00	7537.64333333333	103.94	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	229046.44	1.27	226424.12	101.16	60	120	
Sc	45	He	33693.29	1.44	32694.3333333333	103.06	60	120	
Ge	72	He	24179.27	0.41	24276.1033333333	99.6	60	120	
Rh	103	He	363672.12	0.65	361295.526666667	100.66	60	120	
Te	125	He	2095.73	5.20	2024.60666666667	103.51	60	120	
Te (HE He)	125	HEHe	3582.47	1.46	3544.45333333333	101.07	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:11:20
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	6700.18	2.03
B	11	45	No Gas	4273.98	0.47
Se	82	125	No Gas	585.90	8.42
Tl	205	209	No Gas	54593.42	0.54
Pb	208	209	No Gas	38777.43	1.86
Th	232	209	No Gas	15.00	66.67
U	238	209	No Gas	60799.75	1.24
Na	23	45	He	485550.96	2.15
Mg	24	45	He	204381.22	2.40
Al	27	45	He	9369.72	2.78
K	39	45	He	289274.21	1.65
Ca	43	45	He	700.02	1.14
Ti	47	45	He	777.35	1.46
V	51	72	He	24173.54	3.18
Cr	52	72	He	29843.99	1.59
Mn	55	72	He	16185.91	2.57
Fe	56	72	He	249972.18	0.70
Co	59	72	He	43094.51	0.66
Ni	60	72	He	12265.35	2.62
Cu	63	72	He	31868.94	1.47
Zn	66	72	He	6016.30	5.20
As	75	125	He	5143.76	0.93
Sr	88	103	He	20521.79	0.69
Mo	95	103	He	13682.23	0.92
Ag	107	103	He	40950.74	1.84
Cd	111	125	He	5728.18	0.39
Sn	118	103	He	13036.32	2.40
Sb	121	103	He	19430.47	1.60
Ba	137	103	He	5931.40	7.26
Se	78	125	HEHe	408.18	3.34

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	383922.78	1.97	375661.073333333	102.2	60	120	
Te (No He)	125	No Gas	8005.68	1.63	7537.64333333333	106.21	60	120	
Bi (No He)	209	No Gas	228206.67	0.13	226424.12	100.79	60	120	
Sc	45	He	33491.69	0.51	32694.3333333333	102.44	60	120	
Ge	72	He	24702.34	1.01	24276.1033333333	101.76	60	120	
Rh	103	He	363354.00	0.45	361295.526666667	100.57	60	120	
Te	125	He	1982.38	6.23	2024.60666666667	97.91	60	120	
Te (HE He)	125	HEHe	3614.47	3.38	3544.45333333333	101.98	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:13:50
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	17980.13	0.45
B	11	45	No Gas	10657.20	0.53
Se	82	125	No Gas	2099.56	8.77
Tl	205	209	No Gas	142989.88	1.17
Pb	208	209	No Gas	104647.27	1.90
Th	232	209	No Gas	25.00	52.92
U	238	209	No Gas	162490.20	0.84
Na	23	45	He	1100799.70	0.45
Mg	24	45	He	540187.87	0.77
Al	27	45	He	23837.63	0.98
K	39	45	He	676092.18	0.69
Ca	43	45	He	1793.45	3.31
Ti	47	45	He	2034.48	1.81
V	51	72	He	64951.03	0.12
Cr	52	72	He	76311.03	1.07
Mn	55	72	He	43559.06	1.20
Fe	56	72	He	663449.86	0.67
Co	59	72	He	115343.83	0.73
Ni	60	72	He	31347.59	0.94
Cu	63	72	He	84211.57	0.40
Zn	66	72	He	15094.67	2.46
As	75	125	He	13407.24	1.15
Sr	88	103	He	55712.70	2.29
Mo	95	103	He	36231.93	2.25
Ag	107	103	He	109081.79	0.65
Cd	111	125	He	15453.51	0.11
Sn	118	103	He	35141.38	3.22
Sb	121	103	He	51790.20	1.61
Ba	137	103	He	16873.93	2.61
Se	78	125	HEHe	1111.21	1.59

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	388764.01	0.76	375661.073333333	103.49	60	120	
Te (No He)	125	No Gas	7875.61	4.74	7537.64333333333	104.48	60	120	
Bi (No He)	209	No Gas	230088.94	1.14	226424.12	101.62	60	120	
Sc	45	He	34253.39	0.83	32694.3333333333	104.77	60	120	
Ge	72	He	24810.36	0.71	24276.1033333333	102.2	60	120	
Rh	103	He	370608.58	0.59	361295.526666667	102.58	60	120	
Te	125	He	2054.61	4.57	2024.60666666667	101.48	60	120	
Te (HE He)	125	HEHe	3666.16	0.73	3544.45333333333	103.43	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:16:21
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	36005.08	0.56
B	11	45	No Gas	21782.60	0.63
Se	82	125	No Gas	4590.82	2.20
Tl	205	209	No Gas	291997.88	0.51
Pb	208	209	No Gas	209468.66	0.62
Th	232	209	No Gas	20.00	50.00
U	238	209	No Gas	327488.23	0.52
Na	23	45	He	2153690.07	1.47
Mg	24	45	He	1087249.25	0.93
Al	27	45	He	48731.72	1.24
K	39	45	He	1320261.96	1.37
Ca	43	45	He	3597.12	0.85
Ti	47	45	He	4141.93	1.58
V	51	72	He	129698.31	1.23
Cr	52	72	He	152439.09	1.40
Mn	55	72	He	84471.79	1.39
Fe	56	72	He	1251655.66	1.11
Co	59	72	He	232527.91	0.70
Ni	60	72	He	62361.58	1.09
Cu	63	72	He	164269.13	0.92
Zn	66	72	He	30084.76	0.86
As	75	125	He	27136.55	0.66
Sr	88	103	He	110125.68	0.91
Mo	95	103	He	72796.45	0.56
Ag	107	103	He	216728.38	0.59
Cd	111	125	He	30976.09	0.42
Sn	118	103	He	70076.35	0.87
Sb	121	103	He	102244.79	0.90
Ba	137	103	He	33340.61	0.78
Se	78	125	HEHe	2189.42	0.69

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	389553.37	1.24	375661.073333333	103.7	60	120	
Te (No He)	125	No Gas	7976.78	4.43	7537.64333333333	105.83	60	120	
Bi (No He)	209	No Gas	226609.87	1.00	226424.12	100.08	60	120	
Sc	45	He	34002.98	1.62	32694.3333333333	104	60	120	
Ge	72	He	24793.67	1.76	24276.1033333333	102.13	60	120	
Rh	103	He	364067.55	0.11	361295.526666667	100.77	60	120	
Te	125	He	2166.85	5.72	2024.60666666667	107.03	60	120	
Te (HE He)	125	HEHe	3697.16	1.14	3544.45333333333	104.31	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:18:50
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	71769.42	0.22
B	11	45	No Gas	43302.59	1.37
Se	82	125	No Gas	9303.00	1.34
Tl	205	209	No Gas	567270.14	1.17
Pb	208	209	No Gas	407141.02	0.56
Th	232	209	No Gas	33.33	17.32
U	238	209	No Gas	642228.31	0.55
Na	23	45	He	4085695.88	0.74
Mg	24	45	He	2155279.45	1.24
Al	27	45	He	97490.85	0.85
K	39	45	He	2547335.17	1.79
Ca	43	45	He	7173.11	1.18
Ti	47	45	He	8072.24	1.87
V	51	72	He	257011.23	1.04
Cr	52	72	He	300327.08	0.47
Mn	55	72	He	169144.95	1.79
Fe	56	72	He	2482504.55	1.63
Co	59	72	He	458010.78	0.33
Ni	60	72	He	124465.91	0.44
Cu	63	72	He	330928.59	1.24
Zn	66	72	He	59328.44	1.62
As	75	125	He	54080.63	0.54
Sr	88	103	He	219330.80	1.56
Mo	95	103	He	145690.17	0.76
Ag	107	103	He	358445.91	4.45
Cd	111	125	He	61844.02	0.18
Sn	118	103	He	138626.21	0.37
Sb	121	103	He	202193.59	0.91
Ba	137	103	He	66752.02	0.59
Se	78	125	HEHe	4432.52	1.50

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	388121.14	0.37	375661.073333333	103.32	60	120	
Te (No He)	125	No Gas	7735.53	2.24	7537.64333333333	102.63	60	120	
Bi (No He)	209	No Gas	227945.32	1.26	226424.12	100.67	60	120	
Sc	45	He	34473.97	1.60	32694.3333333333	105.44	60	120	
Ge	72	He	24745.78	0.64	24276.1033333333	101.93	60	120	
Rh	103	He	364102.92	0.45	361295.526666667	100.78	60	120	
Te	125	He	2004.60	2.29	2024.60666666667	99.01	60	120	
Te (HE He)	125	HEHe	3588.13	2.03	3544.45333333333	101.23	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:21:19
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.097	1.19	35119.01	0.1	96.92	90	110	
B	11	45	No Gas	0.104	1.93	22890.99	0.1	104.12	90	110	
Se	82	125	No Gas	0.099	4.78	4515.37	0.1	99.16	90	110	
Tl	205	209	No Gas	0.098	1.97	279853.92	0.1	98.37	90	110	
Pb	208	209	No Gas	0.099	0.43	203351.18	0.1	99.49	90	110	
Th	232	209	No Gas	2124.940	1.77	356032.98	0.1	2124939.57	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.098	0.96	315749.96	0.1	98.19	90	110	
Na	23	45	He	9.824	3.14	2092213.09	10	98.24	90	110	
Mg	24	45	He	9.781	2.13	1064324.54	10	97.81	90	110	
Al	27	45	He	9.599	2.25	470202.10	1	959.93	90	110	ICV Main CR1 Failed
K	39	45	He	9.653	2.53	1273709.72	10	96.53	90	110	
Ca	43	45	He	9.898	2.61	3589.78	10	98.98	90	110	
Ti	47	45	He	0.098	2.82	4019.89	0.1	98.25	90	110	
V	51	72	He	0.094	0.75	124967.74	0.1	94.23	90	110	
Cr	52	72	He	0.094	2.38	147218.59	0.1	94.36	90	110	
Mn	55	72	He	0.097	2.04	84629.90	0.1	97.08	90	110	
Fe	56	72	He	9.314	1.65	11797230.66	1	931.4	90	110	ICV Main CR1 Failed
Co	59	72	He	0.097	2.21	229955.22	0.1	97.31	90	110	
Ni	60	72	He	0.098	0.89	62642.80	0.1	97.61	90	110	
Cu	63	72	He	0.096	1.51	163941.39	0.1	96.3	90	110	
Zn	66	72	He	0.097	2.31	30021.35	0.1	97.12	90	110	
As	75	125	He	0.095	4.34	26307.34	0.1	94.62	90	110	
Sr	88	103	He	0.098	1.53	108086.69	0.1	98.08	90	110	
Mo	95	103	He	0.097	1.44	71122.40	0.1	97.36	90	110	
Ag	107	103	He	0.097	0.87	211373.44	0.1	96.82	90	110	
Cd	111	125	He	0.096	3.94	30393.51	0.1	95.64	90	110	
Sn	118	103	He	0.098	0.92	68421.33	0.1	98.11	90	110	
Sb	121	103	He	0.103	1.27	104961.66	0.1	103.15	90	110	
Ba	137	103	He	0.099	0.92	33026.67	0.1	98.63	90	110	
Se	78	125	HEHe	0.097	1.96	2129.49	0.1	96.77	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	391178.64	0.44	375661.073333333	104.13	60	120	
Te (No He)	125	No Gas	7808.90	1.33	7537.64333333333	103.6	60	120	
Bi (No He)	209	No Gas	226710.92	0.54	226424.12	100.13	60	120	
Sc	45	He	34577.45	2.08	32694.3333333333	105.76	60	120	
Ge	72	He	25418.14	0.80	24276.1033333333	104.7	60	120	
Rh	103	He	364957.58	1.36	361295.526666667	101.01	60	120	
Te	125	He	2089.06	4.47	2024.60666666667	103.18	60	120	
Te (HE He)	125	HEHe	3586.47	2.57	3544.45333333333	101.19	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:23:33
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	74.70	28.67	0.001	
B	11	45	No Gas	0.010	6.10	2481.90	0.02	
Se	82	125	No Gas	0.000	N/A	-246.78	0.001	
Tl	205	209	No Gas	0.000	7.43	403.34	0.001	
Pb	208	209	No Gas	0.000	59.36	200.00	0.001	
Th	232	209	No Gas	1.371	6.22	233.34	0.01	ICB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	93.33	0.01	
Na	23	45	He	-0.065	N/A	102850.35	1	
Mg	24	45	He	0.001	156.86	553.36	1	
Al	27	45	He	0.000	433.31	145.00	0.1	
K	39	45	He	-0.013	N/A	59576.08	1	
Ca	43	45	He	-0.003	N/A	30.67	1	
Ti	47	45	He	0.000	N/A	6.33	0.01	
V	51	72	He	0.000	N/A	338.34	0.002	
Cr	52	72	He	0.000	1876.10	2545.24	0.001	
Mn	55	72	He	0.000	N/A	250.01	0.002	
Fe	56	72	He	0.000	287.38	27392.94	0.1	
Co	59	72	He	0.000	815.70	96.67	0.001	
Ni	60	72	He	0.000	N/A	286.68	0.001	
Cu	63	72	He	0.000	N/A	366.68	0.002	
Zn	66	72	He	0.000	N/A	708.36	0.01	
As	75	125	He	0.000	14.46	51.00	0.001	
Sr	88	103	He	0.000	190.60	113.33	0.01	
Mo	95	103	He	0.000	64.91	28.89	0.002	
Ag	107	103	He	0.000	7.50	518.90	0.001	
Cd	111	125	He	0.000	8.43	6.67	0.001	
Sn	118	103	He	0.000	59.49	83.33	0.001	
Sb	121	103	He	0.000	33.82	163.34	0.001	
Ba	137	103	He	0.000	43.15	16.67	0.002	
Se	78	125	HEHe	0.000	154.49	3.42	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	377268.42	0.25	375661.073333333	100.43	60	120	
Te (No He)	125	No Gas	7674.37	2.68	7537.64333333333	101.81	60	120	
Bi (No He)	209	No Gas	226936.12	1.46	226424.12	100.23	60	120	
Sc	45	He	33002.81	1.15	32694.3333333333	100.94	60	120	
Ge	72	He	24185.98	1.63	24276.1033333333	99.63	60	120	
Rh	103	He	363809.77	0.88	361295.526666667	100.7	60	120	
Te	125	He	2064.61	1.77	2024.60666666667	101.98	60	120	
Te (HE He)	125	HEHe	3556.79	0.59	3544.45333333333	100.35	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	011LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:25:47
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	381981.00	0.87	375661.073333333	101.68	60	120	
Te (No He)	125	No Gas	7972.33	1.63	7537.64333333333	105.77	60	120	
Bi (No He)	209	No Gas	228054.81	2.46	226424.12	100.72	60	120	
Sc	45	He	33557.33	1.46	32694.3333333333	102.64	60	120	
Ge	72	He	24394.08	0.38	24276.1033333333	100.49	60	120	
Rh	103	He	361885.49	1.29	361295.526666667	100.16	60	120	
Te	125	He	2147.95	3.93	2024.60666666667	106.09	60	120	
Te (HE He)	125	HEHe	3657.82	1.61	3544.45333333333	103.2	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	012ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:28:16
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	013ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:30:29
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	014_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:53:54
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.092	0.87	31885.85	0.1	91.64	90	110	
B	11	45	No Gas	0.085	4.12	18089.33	0.1	85.31	90	110	ICV Main CR1 Failed
Se	82	125	No Gas	0.097	1.67	4306.41	0.1	97.36	90	110	
Tl	205	209	No Gas	0.096	2.57	263089.24	0.1	96.02	90	110	
Pb	208	209	No Gas	0.095	1.00	187840.46	0.1	95.41	90	110	
Th	232	209	No Gas	2050.900	1.44	330977.29	0.1	2050899.63	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.095	1.31	295734.31	0.1	95.49	90	110	
Na	23	45	He	9.401	0.37	1979785.91	10	94.01	90	110	
Mg	24	45	He	9.373	2.52	1005505.61	10	93.73	90	110	
Al	27	45	He	9.252	1.41	446856.02	1	925.17	90	110	ICV Main CR1 Failed
K	39	45	He	9.356	3.83	1218858.55	10	93.56	90	110	
Ca	43	45	He	9.493	3.30	3396.41	10	94.93	90	110	
Ti	47	45	He	0.094	2.42	3798.50	0.1	94.14	90	110	
V	51	72	He	0.095	2.27	121279.98	0.1	95.03	90	110	
Cr	52	72	He	0.094	1.64	141611.89	0.1	94.31	90	110	
Mn	55	72	He	0.094	1.18	79061.90	0.1	94.23	90	110	
Fe	56	72	He	9.201	1.46	11215859.00	1	920.07	90	110	ICV Main CR1 Failed
Co	59	72	He	0.097	1.87	219561.40	0.1	96.54	90	110	
Ni	60	72	He	0.097	1.72	59736.86	0.1	96.72	90	110	
Cu	63	72	He	0.097	1.81	158372.36	0.1	96.66	90	110	
Zn	66	72	He	0.094	1.04	27875.37	0.1	93.59	90	110	
As	75	125	He	0.097	2.60	25529.45	0.1	96.75	90	110	
Sr	88	103	He	0.097	0.40	105074.35	0.1	97.27	90	110	
Mo	95	103	He	0.095	0.65	68250.51	0.1	95.32	90	110	
Ag	107	103	He	0.095	0.19	203026.59	0.1	94.89	90	110	
Cd	111	125	He	0.097	2.52	29107.11	0.1	96.52	90	110	
Sn	118	103	He	0.096	0.69	65661.60	0.1	96.07	90	110	
Sb	121	103	He	0.100	0.52	100095.61	0.1	100.35	90	110	
Ba	137	103	He	0.095	0.63	31202.34	0.1	95.07	90	110	
Se	78	125	HEHe	0.094	0.64	2069.98	0.1	93.66	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	375628.81	0.68	375661.073333333	99.99	60	120	
Te (No He)	125	No Gas	7590.99	0.99	7537.64333333333	100.71	60	120	
Bi (No He)	209	No Gas	218365.67	1.16	226424.12	96.44	60	120	
Sc	45	He	34090.87	1.88	32694.3333333333	104.27	60	120	
Ge	72	He	24461.97	0.62	24276.1033333333	100.77	60	120	
Rh	103	He	357694.07	0.78	361295.526666667	99	60	120	
Te	125	He	1981.26	3.05	2024.60666666667	97.86	60	120	
Te (HE He)	125	HEHe	3601.14	1.09	3544.45333333333	101.6	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	015_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 18:58:12
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	14.67	0.001	
B	11	45	No Gas	0.001	4.85	728.36	0.02	
Se	82	125	No Gas	0.001	177.27	-199.95	0.001	
Tl	205	209	No Gas	0.000	109.15	100.00	0.001	
Pb	208	209	No Gas	0.000	N/A	103.34	0.001	
Th	232	209	No Gas	0.398	19.09	68.33	0.01	ICB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	46.67	0.01	
Na	23	45	He	-0.061	N/A	101159.21	1	
Mg	24	45	He	0.002	51.31	600.04	1	
Al	27	45	He	0.002	51.88	225.00	0.1	
K	39	45	He	-0.029	N/A	56256.03	1	
Ca	43	45	He	-0.005	N/A	29.33	1	
Ti	47	45	He	0.000	40.09	9.00	0.01	
V	51	72	He	0.000	N/A	223.33	0.002	
Cr	52	72	He	0.000	N/A	2335.21	0.001	
Mn	55	72	He	0.000	21.31	283.34	0.002	
Fe	56	72	He	0.002	16.04	28631.98	0.1	
Co	59	72	He	0.000	288.20	106.67	0.001	
Ni	60	72	He	0.000	60.57	516.68	0.001	
Cu	63	72	He	0.000	N/A	303.34	0.002	
Zn	66	72	He	0.000	N/A	750.03	0.01	
As	75	125	He	0.000	N/A	42.00	0.001	
Sr	88	103	He	0.000	N/A	80.00	0.01	
Mo	95	103	He	0.000	37.48	24.45	0.002	
Ag	107	103	He	0.000	35.66	97.78	0.001	
Cd	111	125	He	0.000	33.87	4.67	0.001	
Sn	118	103	He	0.000	113.77	43.33	0.001	
Sb	121	103	He	0.000	22.11	60.00	0.001	
Ba	137	103	He	0.000	103.72	20.00	0.002	
Se	78	125	HEHe	0.000	N/A	2.00	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	367159.36	1.02	375661.073333333	97.74	60	120	
Te (No He)	125	No Gas	7518.74	2.20	7537.64333333333	99.75	60	120	
Bi (No He)	209	No Gas	221181.57	0.84	226424.12	97.68	60	120	
Sc	45	He	32187.61	0.36	32694.3333333333	98.45	60	120	
Ge	72	He	23502.63	0.99	24276.1033333333	96.81	60	120	
Rh	103	He	356015.10	0.92	361295.526666667	98.54	60	120	
Te	125	He	1974.60	2.87	2024.60666666667	97.53	60	120	
Te (HE He)	125	HEHe	3446.76	0.81	3544.45333333333	97.24	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	016LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:00:25
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	370848.48	0.68	375661.073333333	98.72	60	120	
Te (No He)	125	No Gas	7691.05	2.60	7537.64333333333	102.04	60	120	
Bi (No He)	209	No Gas	220454.03	0.91	226424.12	97.36	60	120	
Sc	45	He	32487.20	1.13	32694.3333333333	99.37	60	120	
Ge	72	He	23908.82	1.01	24276.1033333333	98.49	60	120	
Rh	103	He	357864.49	1.80	361295.526666667	99.05	60	120	
Te	125	He	1995.71	2.27	2024.60666666667	98.57	60	120	
Te (HE He)	125	HEHe	3509.45	2.15	3544.45333333333	99.01	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	017ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:02:39
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	95.177	0.45	18155301.40	100	80	120	
Mg	24	45	He	95.241	1.18	9783295.48	100	80	120	
Al	27	45	He	96.784	0.58	4476583.48	100	80	120	
K	39	45	He	95.957	1.39	11416728.58	100	80	120	
Ca	43	45	He	95.748	1.85	32524.04	100	80	120	
Ti	47	45	He	1.985	1.70	76581.08	2	80	120	
Fe	56	72	He	92.875	0.19	111488601.67	100	80	120	
Mo	95	103	He	2.039	0.86	1402176.09	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	371634.23	1.19	375661.073333333	98.93	60	120	
Te (No He)	125	No Gas	7246.37	1.82	7537.64333333333	96.14	60	120	
Bi (No He)	209	No Gas	216117.56	1.77	226424.12	95.45	60	120	
Sc	45	He	32650.88	1.54	32694.3333333333	99.87	60	120	
Ge	72	He	24140.29	0.74	24276.1033333333	99.44	60	120	
Rh	103	He	343600.50	0.97	361295.526666667	95.1	60	120	
Te	125	He	2042.38	4.15	2024.60666666667	100.88	60	120	
Te (HE He)	125	HEHe	3419.42	1.84	3544.45333333333	96.47	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	018ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:04:51
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	2.08	6284.66	0.02	80	120	
B	11	45	No Gas	0.022	4.29	4834.15	0.02	80	120	
Se	82	125	No Gas	0.020	13.00	660.81	0.02	80	120	
Tl	205	209	No Gas	0.020	1.76	53388.37	0.02	80	120	
Pb	208	209	No Gas	0.020	0.67	38686.97	0.02	80	120	
U	238	209	No Gas	0.020	0.56	61037.29	0.02	80	120	
Na	23	45	He	94.246	1.20	17582403.07	100	80	120	
Mg	24	45	He	94.796	1.09	9523719.23	100	80	120	
Al	27	45	He	96.052	0.77	4344830.77	100	80	120	
K	39	45	He	95.166	0.57	11074759.00	100	80	120	
Ca	43	45	He	95.843	0.78	31842.56	100	80	120	
Ti	47	45	He	1.973	1.44	74429.43	2	80	120	
V	51	72	He	0.019	1.04	24377.17	0.02	80	120	
Cr	52	72	He	0.020	1.66	31502.64	0.02	80	120	
Mn	55	72	He	0.020	5.34	16416.28	0.02	80	120	
Fe	56	72	He	92.259	1.24	109936201.70	100	80	120	
Co	59	72	He	0.020	1.68	44010.68	0.02	80	120	
Ni	60	72	He	0.019	4.09	11998.54	0.02	80	120	
Cu	63	72	He	0.020	2.68	31808.68	0.02	80	120	
Zn	66	72	He	0.019	2.22	6169.71	0.02	80	120	
As	75	125	He	0.020	2.84	5168.10	0.02	80	120	
Sr	88	103	He	0.021	2.42	21419.86	0.02	80	120	
Mo	95	103	He	2.025	0.05	1377601.51	2	80	120	
Ag	107	103	He	0.020	1.94	39925.53	0.02	80	120	
Cd	111	125	He	0.020	2.35	5932.59	0.02	80	120	
Sn	118	103	He	0.021	3.50	13456.73	0.02	80	120	
Sb	121	103	He	0.021	0.94	20138.24	0.02	80	120	
Ba	137	103	He	0.020	5.11	6368.27	0.02	80	120	
Se	78	125	HEHe	0.020	2.57	405.76	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	364502.31	1.43	375661.073333333	97.03	60	120	
Te (No He)	125	No Gas	7279.72	2.23	7537.64333333333	96.58	60	120	
Bi (No He)	209	No Gas	214014.48	0.38	226424.12	94.52	60	120	
Sc	45	He	31930.45	0.32	32694.3333333333	97.66	60	120	
Ge	72	He	23967.84	2.36	24276.1033333333	98.73	60	120	
Rh	103	He	339869.85	0.79	361295.526666667	94.07	60	120	
Te	125	He	1903.48	2.70	2024.60666666667	94.02	60	120	
Te (HE He)	125	HEHe	3329.07	3.19	3544.45333333333	93.92	60	120	

Sample Report

Sample Name	INSTBLANK
File Name	019SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:11:52
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.00	5	
B	11	45	No Gas	0.000	145.54	435.01	5	
Se	82	125	No Gas	0.001	116.15	-195.38	5	
Tl	205	209	No Gas	0.000	N/A	33.33	5	
Pb	208	209	No Gas	0.000	N/A	93.33	5	
Th	232	209	No Gas	0.168	36.61	30.00	5	
U	238	209	No Gas	0.000	N/A	26.67	5	
Na	23	45	He	-0.060	N/A	98374.00	90	
Mg	24	45	He	0.003	65.62	660.03	90	
Al	27	45	He	0.002	25.93	215.00	90	
K	39	45	He	-0.053	N/A	51933.32	90	
Ca	43	45	He	-0.016	N/A	24.67	90	
Ti	47	45	He	0.000	N/A	5.00	5	
V	51	72	He	0.000	N/A	191.67	5	
Cr	52	72	He	0.000	N/A	2301.87	5	
Mn	55	72	He	0.000	N/A	156.67	5	
Fe	56	72	He	-0.010	N/A	14814.46	90	
Co	59	72	He	0.000	N/A	30.00	5	
Ni	60	72	He	0.000	N/A	206.67	5	
Cu	63	72	He	0.000	N/A	240.00	5	
Zn	66	72	He	-0.002	N/A	183.33	5	
As	75	125	He	0.000	N/A	39.17	5	
Sr	88	103	He	0.000	N/A	83.33	5	
Mo	95	103	He	0.000	46.63	57.78	5	
Ag	107	103	He	0.000	574.69	32.22	1	
Cd	111	125	He	0.000	79.59	3.33	5	
Sn	118	103	He	0.000	252.83	20.00	2	
Sb	121	103	He	0.000	64.75	40.00	1	
Ba	137	103	He	0.000	146.82	10.00	2	
Se	78	125	HEHe	0.000	N/A	2.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	349881.34	0.83	375661.073333333	93.14	60	120	
Te (No He)	125	No Gas	7375.34	2.79	7537.64333333333	97.85	60	120	
Bi (No He)	209	No Gas	215772.43	0.66	226424.12	95.3	60	120	
Sc	45	He	31279.02	1.72	32694.3333333333	95.67	60	120	
Ge	72	He	22999.55	0.37	24276.1033333333	94.74	60	120	
Rh	103	He	348862.15	1.08	361295.526666667	96.56	60	120	
Te	125	He	1942.37	5.59	2024.60666666667	95.94	60	120	
Te (HE He)	125	HEHe	3395.09	0.74	3544.45333333333	95.79	60	120	

Sample Report

Sample Name	INSTBLANK
File Name	020SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:14:07
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	5.33	5	
B	11	45	No Gas	0.000	N/A	346.68	5	
Se	82	125	No Gas	0.000	1424.48	-226.46	5	
Tl	205	209	No Gas	0.000	N/A	30.00	5	
Pb	208	209	No Gas	0.000	N/A	56.67	5	
Th	232	209	No Gas	0.084	92.59	16.67	5	
U	238	209	No Gas	0.000	N/A	20.00	5	
Na	23	45	He	-0.059	N/A	97755.81	90	
Mg	24	45	He	0.001	71.39	526.69	90	
Al	27	45	He	0.000	256.96	145.00	90	
K	39	45	He	-0.050	N/A	51892.87	90	
Ca	43	45	He	0.001	2259.91	30.00	90	
Ti	47	45	He	0.000	836.65	7.00	5	
V	51	72	He	0.000	N/A	225.00	5	
Cr	52	72	He	0.000	N/A	2323.54	5	
Mn	55	72	He	0.000	N/A	153.33	5	
Fe	56	72	He	-0.011	N/A	13623.26	90	
Co	59	72	He	0.000	N/A	50.00	5	
Ni	60	72	He	0.000	N/A	240.01	5	
Cu	63	72	He	0.000	N/A	170.00	5	
Zn	66	72	He	-0.002	N/A	143.33	5	
As	75	125	He	0.000	N/A	34.17	5	
Sr	88	103	He	0.000	N/A	63.33	5	
Mo	95	103	He	0.000	66.32	31.11	5	
Ag	107	103	He	0.000	N/A	27.78	1	
Cd	111	125	He	0.000	339.62	0.67	5	
Sn	118	103	He	0.000	21.51	43.33	2	
Sb	121	103	He	0.000	N/A	6.67	1	
Ba	137	103	He	0.000	0.00	0.00	2	
Se	78	125	HEHe	0.000	N/A	2.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	350263.94	0.74	375661.073333333	93.24	60	120	
Te (No He)	125	No Gas	7386.45	2.92	7537.64333333333	97.99	60	120	
Bi (No He)	209	No Gas	216134.52	1.16	226424.12	95.46	60	120	
Sc	45	He	31003.98	0.38	32694.3333333333	94.83	60	120	
Ge	72	He	22819.28	1.94	24276.1033333333	94	60	120	
Rh	103	He	347485.35	0.28	361295.526666667	96.18	60	120	
Te	125	He	2010.16	4.60	2024.60666666667	99.29	60	120	
Te (HE He)	125	HEHe	3385.75	1.16	3544.45333333333	95.52	60	120	

Sample Report

Sample Name	BLANK WG791888
File Name	021SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:16:36
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	12.00	5	
B	11	45	No Gas	0.001	16.05	506.68	5	
Se	82	125	No Gas	-0.001	N/A	-260.22	5	
Tl	205	209	No Gas	0.000	2207.49	66.67	5	
Pb	208	209	No Gas	0.000	453.12	120.00	5	
Th	232	209	No Gas	0.190	54.27	30.00	5	
U	238	209	No Gas	0.000	N/A	6.67	5	
Na	23	45	He	-0.046	N/A	94031.96	90	
Mg	24	45	He	0.006	6.66	893.39	90	
Al	27	45	He	0.002	20.77	183.33	90	
K	39	45	He	-0.029	N/A	50796.28	90	
Ca	43	45	He	-0.024	N/A	21.33	90	
Ti	47	45	He	0.000	70.50	7.67	5	
V	51	72	He	0.000	51.98	480.01	5	
Cr	52	72	He	0.000	55.90	2516.90	5	
Mn	55	72	He	0.000	N/A	226.67	5	
Fe	56	72	He	-0.004	N/A	20798.53	90	
Co	59	72	He	0.000	N/A	56.67	5	
Ni	60	72	He	0.000	N/A	263.34	5	
Cu	63	72	He	0.000	42.23	530.02	5	
Zn	66	72	He	-0.002	N/A	341.68	5	
As	75	125	He	0.000	16.33	57.17	5	
Sr	88	103	He	0.000	53.26	126.67	5	
Mo	95	103	He	0.000	53.65	26.66	5	
Ag	107	103	He	0.000	26.35	81.11	1	
Cd	111	125	He	0.000	55.10	2.33	5	
Sn	118	103	He	0.000	31.46	86.67	2	
Sb	121	103	He	0.000	35.11	56.67	1	
Ba	137	103	He	0.000	57.81	13.33	2	
Se	78	125	HEHe	0.000	N/A	2.08	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	325699.31	0.41	375661.073333333	86.7	60	120	
Te (No He)	125	No Gas	6863.96	1.10	7537.64333333333	91.06	60	120	
Bi (No He)	209	No Gas	212055.59	1.56	226424.12	93.65	60	120	
Sc	45	He	28918.60	1.88	32694.3333333333	88.45	60	120	
Ge	72	He	21711.99	1.07	24276.1033333333	89.44	60	120	
Rh	103	He	335474.77	1.18	361295.526666667	92.85	60	120	
Te	125	He	1783.46	2.60	2024.60666666667	88.09	60	120	
Te (HE He)	125	HEHe	3195.71	1.28	3544.45333333333	90.16	60	120	

Sample Report

Sample Name	LCS WG791888
File Name	022SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:18:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.047	1.60	12934.26	5	
B	11	45	No Gas	0.044	1.75	7708.71	5	
Se	82	125	No Gas	0.047	7.18	1650.75	5	
Tl	205	209	No Gas	0.050	2.20	117772.83	5	
Pb	208	209	No Gas	0.051	0.91	86453.24	5	
Th	232	209	No Gas	1081.138	0.45	150596.49	5	>LDR
U	238	209	No Gas	0.050	2.80	134241.92	5	
Na	23	45	He	4.864	0.68	853775.67	90	
Mg	24	45	He	4.882	0.38	408717.31	90	
Al	27	45	He	4.782	1.00	180179.98	90	
K	39	45	He	4.862	1.44	523294.02	90	
Ca	43	45	He	5.061	3.86	1426.74	90	
Ti	47	45	He	0.049	3.67	1544.08	5	
V	51	72	He	0.048	1.83	51276.78	5	
Cr	52	72	He	0.048	0.85	60786.70	5	
Mn	55	72	He	0.048	0.24	33365.40	5	
Fe	56	72	He	4.745	0.39	4795603.26	90	
Co	59	72	He	0.050	1.16	94330.43	5	
Ni	60	72	He	0.050	1.20	25706.45	5	
Cu	63	72	He	0.051	0.56	69805.27	5	
Zn	66	72	He	0.047	1.59	11991.73	5	
As	75	125	He	0.049	3.30	10977.85	5	
Sr	88	103	He	0.050	1.36	45306.08	5	
Mo	95	103	He	0.049	1.59	29745.72	5	
Ag	107	103	He	0.050	1.08	89783.22	1	
Cd	111	125	He	0.049	1.34	12639.36	5	
Sn	118	103	He	0.049	1.81	28105.51	2	
Sb	121	103	He	0.052	0.87	43454.99	1	
Ba	137	103	He	0.050	4.06	13753.81	2	
Se	78	125	HEHe	0.050	2.20	903.20	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	331688.24	1.32	375661.073333333	88.29	60	120	
Te (No He)	125	No Gas	7169.67	0.86	7537.64333333333	95.12	60	120	
Bi (No He)	209	No Gas	209413.09	2.25	226424.12	92.49	60	120	
Sc	45	He	29535.41	0.36	32694.3333333333	90.34	60	120	
Ge	72	He	22468.78	0.67	24276.1033333333	92.56	60	120	
Rh	103	He	335634.50	0.44	361295.526666667	92.9	60	120	
Te	125	He	1874.58	2.06	2024.60666666667	92.59	60	120	
Te (HE He)	125	HEHe	3275.06	1.55	3544.45333333333	92.4	60	120	

Sample Report

Sample Name	LCSD WG791888
File Name	023SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:21:03
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.047	1.64	13053.70	5	
B	11	45	No Gas	0.047	5.01	8102.24	5	
Se	82	125	No Gas	0.046	4.37	1595.34	5	
Tl	205	209	No Gas	0.050	0.04	119593.76	5	
Pb	208	209	No Gas	0.050	2.13	85614.97	5	
Th	232	209	No Gas	1083.941	0.06	152612.88	5	>LDR
U	238	209	No Gas	0.050	0.45	135029.12	5	
Na	23	45	He	4.824	0.70	846120.33	90	
Mg	24	45	He	4.887	1.38	408340.71	90	
Al	27	45	He	4.776	1.60	179620.88	90	
K	39	45	He	4.903	1.94	526191.35	90	
Ca	43	45	He	4.763	3.12	1342.73	90	
Ti	47	45	He	0.050	2.34	1583.09	5	
V	51	72	He	0.049	1.05	51027.87	5	
Cr	52	72	He	0.050	0.74	61595.03	5	
Mn	55	72	He	0.050	1.70	34117.06	5	
Fe	56	72	He	4.924	2.00	4881721.18	90	
Co	59	72	He	0.052	1.04	95134.73	5	
Ni	60	72	He	0.052	2.04	26284.14	5	
Cu	63	72	He	0.052	2.11	69265.98	5	
Zn	66	72	He	0.048	3.85	11988.42	5	
As	75	125	He	0.046	4.61	10849.59	5	
Sr	88	103	He	0.049	0.94	44292.69	5	
Mo	95	103	He	0.050	1.10	29971.74	5	
Ag	107	103	He	0.051	0.58	90814.32	1	
Cd	111	125	He	0.047	5.11	12729.44	5	
Sn	118	103	He	0.050	3.00	28492.89	2	
Sb	121	103	He	0.053	2.30	43906.53	1	
Ba	137	103	He	0.049	2.67	13466.84	2	
Se	78	125	HEHe	0.049	1.70	914.86	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	331944.74	0.92	375661.073333333	88.36	60	120	
Te (No He)	125	No Gas	7151.88	2.72	7537.64333333333	94.88	60	120	
Bi (No He)	209	No Gas	211660.77	0.81	226424.12	93.48	60	120	
Sc	45	He	29485.31	2.14	32694.3333333333	90.18	60	120	
Ge	72	He	22045.85	0.84	24276.1033333333	90.81	60	120	
Rh	103	He	332481.45	0.27	361295.526666667	92.02	60	120	
Te	125	He	1970.15	4.99	2024.60666666667	97.31	60	120	
Te (HE He)	125	HEHe	3368.41	3.42	3544.45333333333	95.03	60	120	

Sample Report

Sample Name	L766887-01 WG791888
File Name	024SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:23:15
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	155.50	16.67	5	
B	11	45	No Gas	0.290	0.66	47789.47	5	
Se	82	125	No Gas	0.008	28.70	84.54	5	
Tl	205	209	No Gas	0.000	19.96	370.01	5	
Pb	208	209	No Gas	0.000	17.83	216.67	5	
Th	232	209	No Gas	2.314	26.54	261.67	5	
U	238	209	No Gas	0.024	2.64	51342.62	5	
Na	23	45	He	4679.786	1.65	779602601.71	90	>LDR
Mg	24	45	He	916.398	1.14	82708958.77	90	>LDR
Al	27	45	He	0.014	3.18	706.69	90	
K	39	45	He	11.073	2.14	1210862.58	90	
Ca	43	45	He	1045.284	0.68	311753.40	90	>LDR
Ti	47	45	He	0.000	4.30	14.67	5	
V	51	72	He	0.009	2.95	10844.14	5	
Cr	52	72	He	0.000	63.94	2716.95	5	
Mn	55	72	He	0.569	0.53	419119.86	5	
Fe	56	72	He	0.040	2.64	69730.89	90	
Co	59	72	He	0.004	3.70	7201.96	5	
Ni	60	72	He	0.006	4.94	3503.82	5	
Cu	63	72	He	0.001	3.49	2006.84	5	
Zn	66	72	He	0.012	4.07	3737.18	5	
As	75	125	He	0.003	11.49	750.19	5	
Sr	88	103	He	22.557	0.89	18268699.73	5	>LDR
Mo	95	103	He	0.016	0.96	8780.54	5	
Ag	107	103	He	0.000	22.10	247.78	1	
Cd	111	125	He	0.000	23.77	35.33	5	
Sn	118	103	He	0.000	34.36	200.01	2	
Sb	121	103	He	0.000	27.52	273.34	1	
Ba	137	103	He	0.036	2.74	8963.06	2	
Se	78	125	HEHe	0.011	3.43	176.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	330358.42	2.38	375661.073333333	87.94	60	120	
Te (No He)	125	No Gas	5824.58	1.65	7537.64333333333	77.27	60	120	
Bi (No He)	209	No Gas	168523.84	0.88	226424.12	74.43	60	120	
Sc	45	He	31872.45	2.34	32694.3333333333	97.49	60	120	
Ge	72	He	23923.26	1.81	24276.1033333333	98.55	60	120	
Rh	103	He	298213.70	2.17	361295.526666667	82.54	60	120	
Te	125	He	1725.67	6.39	2024.60666666667	85.23	60	120	
Te (HE He)	125	HEHe	2900.64	1.09	3544.45333333333	81.84	60	120	

Sample Report

Sample Name	SD L766887-01 WG791888
File Name	025SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:25:31
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	12.67	5	
B	11	45	No Gas	0.346	2.95	14009.96	5	
Se	82	125	No Gas	-0.023	N/A	-391.36	5	
Tl	205	209	No Gas	0.000	60.96	93.33	5	
Pb	208	209	No Gas	0.001	4.50	380.01	5	
Th	232	209	No Gas	1.818	24.28	48.33	5	
U	238	209	No Gas	0.024	3.70	11602.05	5	
Na	23	45	He	5169.827	0.76	180305297.31	90	>LDR
Mg	24	45	He	1006.479	1.01	19013250.97	90	>LDR
Al	27	45	He	0.021	13.87	321.68	90	
K	39	45	He	11.862	1.87	319991.24	90	
Ca	43	45	He	1121.460	0.49	70023.82	90	>LDR
Ti	47	45	He	0.000	N/A	6.67	5	
V	51	72	He	0.010	5.59	2581.92	5	
Cr	52	72	He	0.000	N/A	2536.91	5	
Mn	55	72	He	0.641	1.58	96775.26	5	
Fe	56	72	He	0.070	7.76	42763.44	90	
Co	59	72	He	0.004	3.51	1780.14	5	
Ni	60	72	He	0.012	10.35	1650.11	5	
Cu	63	72	He	0.001	30.47	770.04	5	
Zn	66	72	He	0.015	20.78	1586.77	5	
As	75	125	He	0.004	4.84	206.00	5	
Sr	88	103	He	24.169	1.30	4355662.85	5	
Mo	95	103	He	0.017	2.11	2046.83	5	
Ag	107	103	He	0.000	48.53	73.33	1	
Cd	111	125	He	0.000	20.02	10.67	5	
Sn	118	103	He	0.000	45.84	60.00	2	
Sb	121	103	He	0.000	17.97	76.67	1	
Ba	137	103	He	0.039	2.70	2126.87	2	
Se	78	125	HEHe	0.011	4.12	39.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	395429.94	1.18	375661.073333333	105.26	60	120	
Te (No He)	125	No Gas	6861.73	2.44	7537.64333333333	91.03	60	120	
Bi (No He)	209	No Gas	188805.18	1.57	226424.12	83.39	60	120	
Sc	45	He	33353.55	1.97	32694.3333333333	102.02	60	120	
Ge	72	He	24468.67	0.44	24276.1033333333	100.79	60	120	
Rh	103	He	331810.67	0.96	361295.526666667	91.84	60	120	
Te	125	He	1946.81	4.89	2024.60666666667	96.16	60	120	
Te (HE He)	125	HEHe	3157.36	2.45	3544.45333333333	89.08	60	120	

Sample Report

Sample Name	MS L766887-01 WG791888
File Name	026SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:28:02
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.043	1.49	12607.32	5	
B	11	45	No Gas	0.340	2.15	59233.54	5	
Se	82	125	No Gas	0.055	8.02	1582.46	5	
Tl	205	209	No Gas	0.051	1.64	91543.40	5	
Pb	208	209	No Gas	0.050	1.25	64826.40	5	
Th	232	209	No Gas	1146.131	1.60	121090.51	5	>LDR
U	238	209	No Gas	0.077	1.12	155359.07	5	
Na	23	45	He	4438.356	2.14	772489721.82	90	>LDR
Mg	24	45	He	911.103	2.27	85920085.39	90	>LDR
Al	27	45	He	4.984	1.96	211763.29	90	
K	39	45	He	16.140	3.34	1815012.84	90	
Ca	43	45	He	1030.755	1.19	321270.80	90	>LDR
Ti	47	45	He	0.047	1.69	1677.77	5	
V	51	72	He	0.055	1.73	62343.05	5	
Cr	52	72	He	0.044	2.23	60753.11	5	
Mn	55	72	He	0.594	1.22	443200.68	5	
Fe	56	72	He	4.342	1.42	4736450.66	90	
Co	59	72	He	0.047	2.04	94665.20	5	
Ni	60	72	He	0.048	0.92	26885.23	5	
Cu	63	72	He	0.044	3.32	63948.12	5	
Zn	66	72	He	0.048	2.85	13054.33	5	
As	75	125	He	0.056	1.28	11537.12	5	
Sr	88	103	He	22.863	0.80	18241624.31	5	>LDR
Mo	95	103	He	0.068	1.28	36168.33	5	
Ag	107	103	He	0.047	1.67	74302.23	1	
Cd	111	125	He	0.046	0.16	10758.13	5	
Sn	118	103	He	0.050	3.28	25320.13	2	
Sb	121	103	He	0.053	2.94	39413.00	1	
Ba	137	103	He	0.089	2.61	21483.78	2	
Se	78	125	HEHe	0.065	1.45	1009.79	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	349517.86	1.05	375661.073333333	93.04	60	120	
Te (No He)	125	No Gas	5820.14	2.43	7537.64333333333	77.21	60	120	
Bi (No He)	209	No Gas	158834.68	0.49	226424.12	70.15	60	120	
Sc	45	He	33321.29	3.55	32694.3333333333	101.92	60	120	
Ge	72	He	24244.95	2.89	24276.1033333333	99.87	60	120	
Rh	103	He	293780.85	0.88	361295.526666667	81.31	60	120	
Te	125	He	1724.56	1.40	2024.60666666667	85.18	60	120	
Te (HE He)	125	HEHe	2795.95	2.12	3544.45333333333	78.88	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791888
File Name	027SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:30:17
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.043	1.55	12641.34	5	
B	11	45	No Gas	0.346	0.35	61094.23	5	
Se	82	125	No Gas	0.048	3.16	1319.51	5	
Tl	205	209	No Gas	0.050	1.90	87895.31	5	
Pb	208	209	No Gas	0.050	2.61	62827.13	5	
Th	232	209	No Gas	1127.335	1.56	117030.34	5	>LDR
U	238	209	No Gas	0.075	1.06	150348.38	5	
Na	23	45	He	4478.955	0.94	776475855.10	90	>LDR
Mg	24	45	He	909.209	0.65	85404965.40	90	>LDR
Al	27	45	He	4.922	0.64	208299.83	90	
K	39	45	He	16.002	1.33	1793222.79	90	
Ca	43	45	He	1030.381	1.32	319781.54	90	>LDR
Ti	47	45	He	0.048	3.56	1697.44	5	
V	51	72	He	0.054	2.65	62314.70	5	
Cr	52	72	He	0.043	1.41	59397.37	5	
Mn	55	72	He	0.592	2.42	443895.36	5	
Fe	56	72	He	4.299	3.15	4707601.80	90	
Co	59	72	He	0.046	1.88	92776.66	5	
Ni	60	72	He	0.048	3.13	26711.61	5	
Cu	63	72	He	0.043	1.61	62833.35	5	
Zn	66	72	He	0.047	1.03	12954.22	5	
As	75	125	He	0.057	3.25	11388.00	5	
Sr	88	103	He	23.168	0.76	18266740.56	5	>LDR
Mo	95	103	He	0.068	0.91	35799.64	5	
Ag	107	103	He	0.047	1.21	73061.34	1	
Cd	111	125	He	0.046	3.01	10525.96	5	
Sn	118	103	He	0.050	0.95	25066.20	2	
Sb	121	103	He	0.053	0.84	38600.54	1	
Ba	137	103	He	0.087	1.73	20819.45	2	
Se	78	125	HEHe	0.064	1.24	989.62	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	354012.99	1.50	375661.073333333	94.24	60	120	
Te (No He)	125	No Gas	5630.06	2.69	7537.64333333333	74.69	60	120	
Bi (No He)	209	No Gas	156081.96	1.18	226424.12	68.93	60	120	
Sc	45	He	33173.12	1.26	32694.3333333333	101.46	60	120	
Ge	72	He	24348.47	2.64	24276.1033333333	100.3	60	120	
Rh	103	He	290330.03	1.15	361295.526666667	80.36	60	120	
Te	125	He	1671.22	2.48	2024.60666666667	82.55	60	120	
Te (HE He)	125	HEHe	2787.29	0.94	3544.45333333333	78.64	60	120	

Sample Report

Sample Name	L766887-02 WG791888
File Name	028SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:32:33
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	213.09	17.33	5	
B	11	45	No Gas	0.426	0.34	72727.78	5	
Se	82	125	No Gas	-0.008	N/A	-406.80	5	
Tl	205	209	No Gas	0.000	27.26	240.01	5	
Pb	208	209	No Gas	0.000	27.35	393.34	5	
Th	232	209	No Gas	1.289	14.84	130.00	5	
U	238	209	No Gas	0.018	3.88	34446.21	5	
Na	23	45	He	5068.323	1.14	825275134.37	90	>LDR
Mg	24	45	He	1013.510	0.24	89429508.67	90	>LDR
Al	27	45	He	0.012	16.34	606.68	90	
K	39	45	He	8.549	1.87	926875.90	90	
Ca	43	45	He	941.839	0.49	274591.15	90	>LDR
Ti	47	45	He	0.000	76.16	12.00	5	
V	51	72	He	0.008	3.95	9488.19	5	
Cr	52	72	He	0.000	7.03	3120.36	5	
Mn	55	72	He	1.159	1.18	857919.16	5	
Fe	56	72	He	0.016	2.81	44114.04	90	
Co	59	72	He	0.007	1.15	14747.73	5	
Ni	60	72	He	0.011	1.47	6228.15	5	
Cu	63	72	He	0.002	5.76	2927.01	5	
Zn	66	72	He	0.006	8.49	2371.88	5	
As	75	125	He	0.003	4.13	686.35	5	
Sr	88	103	He	21.056	1.96	16401001.84	5	>LDR
Mo	95	103	He	0.039	0.82	20393.63	5	
Ag	107	103	He	0.000	13.88	195.56	1	
Cd	111	125	He	0.000	11.98	35.67	5	
Sn	118	103	He	0.000	12.17	210.01	2	
Sb	121	103	He	0.000	18.31	236.68	1	
Ba	137	103	He	0.040	3.67	9373.35	2	
Se	78	125	HEHe	0.011	6.05	170.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	342304.59	1.08	375661.073333333	91.12	60	120	
Te (No He)	125	No Gas	5452.21	2.94	7537.64333333333	72.33	60	120	
Bi (No He)	209	No Gas	149496.76	3.34	226424.12	66.03	60	120	
Sc	45	He	31160.96	1.50	32694.3333333333	95.31	60	120	
Ge	72	He	24056.87	1.11	24276.1033333333	99.1	60	120	
Rh	103	He	286876.20	1.87	361295.526666667	79.4	60	120	
Te	125	He	1643.44	2.14	2024.60666666667	81.17	60	120	
Te (HE He)	125	HEHe	2707.93	3.09	3544.45333333333	76.4	60	120	

Sample Report

Sample Name	L766887-03 WG791888
File Name	029SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:34:48
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.00	5	
B	11	45	No Gas	0.039	0.57	7011.69	5	
Se	82	125	No Gas	-0.014	N/A	-696.99	5	
Tl	205	209	No Gas	0.000	N/A	26.67	5	
Pb	208	209	No Gas	0.000	33.43	293.34	5	
Th	232	209	No Gas	0.195	11.68	26.67	5	
U	238	209	No Gas	0.000	N/A	20.00	5	
Na	23	45	He	3.610	6.72	674190.55	90	
Mg	24	45	He	0.160	3.21	14047.11	90	
Al	27	45	He	0.012	7.63	590.02	90	
K	39	45	He	0.056	35.29	61443.19	90	
Ca	43	45	He	0.448	4.85	155.33	90	
Ti	47	45	He	0.000	48.79	12.67	5	
V	51	72	He	0.001	5.99	983.38	5	
Cr	52	72	He	0.000	25.51	2751.95	5	
Mn	55	72	He	0.000	85.25	383.35	5	
Fe	56	72	He	0.013	6.25	38675.26	90	
Co	59	72	He	0.000	N/A	83.33	5	
Ni	60	72	He	0.000	N/A	266.68	5	
Cu	63	72	He	0.000	225.03	436.68	5	
Zn	66	72	He	0.009	7.43	2930.32	5	
As	75	125	He	0.000	13.53	92.00	5	
Sr	88	103	He	0.003	0.79	2653.63	5	
Mo	95	103	He	0.000	22.67	41.11	5	
Ag	107	103	He	0.000	9.59	45.56	1	
Cd	111	125	He	0.000	25.90	2.33	5	
Sn	118	103	He	0.000	17.36	106.67	2	
Sb	121	103	He	0.000	41.62	86.67	1	
Ba	137	103	He	0.001	18.25	176.67	2	
Se	78	125	HEHe	0.000	N/A	2.25	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	342159.09	0.83	375661.073333333	91.08	60	120	
Te (No He)	125	No Gas	6560.47	4.72	7537.64333333333	87.04	60	120	
Bi (No He)	209	No Gas	185039.89	1.28	226424.12	81.72	60	120	
Sc	45	He	30167.80	0.85	32694.3333333333	92.27	60	120	
Ge	72	He	22776.98	1.10	24276.1033333333	93.82	60	120	
Rh	103	He	323970.14	0.66	361295.526666667	89.67	60	120	
Te	125	He	1773.46	2.09	2024.60666666667	87.6	60	120	
Te (HE He)	125	HEHe	3178.37	2.73	3544.45333333333	89.67	60	120	

Sample Report

Sample Name	L766887-04 WG791888
File Name	030SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:37:03
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	94.13	16.00	5	
B	11	45	No Gas	0.424	2.46	68146.28	5	
Se	82	125	No Gas	-0.002	N/A	-229.01	5	
Tl	205	209	No Gas	0.000	38.25	236.67	5	
Pb	208	209	No Gas	0.000	26.18	223.34	5	
Th	232	209	No Gas	0.464	19.84	50.00	5	
U	238	209	No Gas	0.017	1.46	34513.28	5	
Na	23	45	He	5083.940	1.15	776681215.09	90	>LDR
Mg	24	45	He	1012.158	1.28	83784890.42	90	>LDR
Al	27	45	He	0.015	16.43	673.36	90	
K	39	45	He	8.604	2.08	874808.55	90	
Ca	43	45	He	936.459	1.07	256152.66	90	>LDR
Ti	47	45	He	0.000	29.56	16.67	5	
V	51	72	He	0.008	3.00	9154.61	5	
Cr	52	72	He	0.000	8.54	2903.64	5	
Mn	55	72	He	1.184	0.40	817812.10	5	
Fe	56	72	He	0.002	10.11	27052.24	90	
Co	59	72	He	0.008	3.52	14163.80	5	
Ni	60	72	He	0.011	6.41	5691.19	5	
Cu	63	72	He	0.002	3.98	3423.81	5	
Zn	66	72	He	0.008	8.02	2718.61	5	
As	75	125	He	0.003	2.75	641.85	5	
Sr	88	103	He	20.694	1.34	15599669.77	5	>LDR
Mo	95	103	He	0.039	1.77	19523.51	5	
Ag	107	103	He	0.000	21.03	121.11	1	
Cd	111	125	He	0.000	30.20	25.00	5	
Sn	118	103	He	0.000	56.11	153.34	2	
Sb	121	103	He	0.000	38.31	213.34	1	
Ba	137	103	He	0.041	2.12	9480.10	2	
Se	78	125	HEHe	0.011	4.73	160.25	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	322371.17	0.90	375661.073333333	85.81	60	120	
Te (No He)	125	No Gas	5455.55	2.40	7537.64333333333	72.38	60	120	
Bi (No He)	209	No Gas	154483.64	1.16	226424.12	68.23	60	120	
Sc	45	He	29234.76	0.54	32694.3333333333	89.42	60	120	
Ge	72	He	22436.49	1.85	24276.1033333333	92.42	60	120	
Rh	103	He	277589.52	1.02	361295.526666667	76.83	60	120	
Te	125	He	1551.21	5.16	2024.60666666667	76.62	60	120	
Te (HE He)	125	HEHe	2663.59	0.75	3544.45333333333	75.15	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	031_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:39:20
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.098	1.34	32992.83	0.1	98	90	110	
B	11	45	No Gas	0.101	3.64	20564.28	0.1	100.62	90	110	
Se	82	125	No Gas	0.093	1.30	3841.38	0.1	92.87	90	110	
Tl	205	209	No Gas	0.103	2.38	254952.19	0.1	103.43	90	110	
Pb	208	209	No Gas	0.102	1.27	180877.76	0.1	102.13	90	110	
Th	232	209	No Gas	0.221	55.83	35.00	0.1	220.69	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.101	1.34	280250.02	0.1	100.58	90	110	
Na	23	45	He	12.847	1.30	2479830.74	10	128.47	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.277	1.14	1027259.05	10	102.77	90	110	
Al	27	45	He	1.018	2.35	45938.05	1	101.82	90	110	
K	39	45	He	10.187	2.31	1231560.21	10	101.87	90	110	
Ca	43	45	He	10.240	0.91	3411.08	10	102.4	90	110	
Ti	47	45	He	0.105	2.58	3936.20	0.1	104.73	90	110	
V	51	72	He	0.102	1.66	123621.24	0.1	102.07	90	110	
Cr	52	72	He	0.101	0.46	144135.20	0.1	101.25	90	110	
Mn	55	72	He	0.102	0.29	81381.57	0.1	102.21	90	110	
Fe	56	72	He	0.990	1.06	1168728.57	1	99	90	110	
Co	59	72	He	0.102	0.75	219374.30	0.1	101.62	90	110	
Ni	60	72	He	0.102	0.23	59606.19	0.1	101.7	90	110	
Cu	63	72	He	0.102	1.62	159308.58	0.1	102.45	90	110	
Zn	66	72	He	0.100	0.52	28125.89	0.1	99.68	90	110	
As	75	125	He	0.109	5.28	25757.68	0.1	108.75	90	110	
Sr	88	103	He	0.105	0.61	107522.86	0.1	105.39	90	110	
Mo	95	103	He	0.102	0.70	68696.06	0.1	101.58	90	110	
Ag	107	103	He	0.100	0.81	203018.46	0.1	100.46	90	110	
Cd	111	125	He	0.106	5.36	28700.61	0.1	106.02	90	110	
Sn	118	103	He	0.101	2.21	65062.30	0.1	100.79	90	110	
Sb	121	103	He	0.100	3.24	94379.64	0.1	100.2	90	110	
Ba	137	103	He	0.102	1.20	31586.73	0.1	101.89	90	110	
Se	78	125	HEHe	0.104	0.51	2132.83	0.1	104.19	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	363485.34	1.28	375661.073333333	96.76	60	120	
Te (No He)	125	No Gas	7116.30	0.99	7537.64333333333	94.41	60	120	
Bi (No He)	209	No Gas	196452.88	1.11	226424.12	86.76	60	120	
Sc	45	He	31761.22	1.74	32694.3333333333	97.15	60	120	
Ge	72	He	23217.69	0.44	24276.1033333333	95.64	60	120	
Rh	103	He	337832.74	0.94	361295.526666667	93.51	60	120	
Te	125	He	1780.13	3.89	2024.60666666667	87.92	60	120	
Te (HE He)	125	HEHe	3335.74	1.04	3544.45333333333	94.11	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	032_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:45:31
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	3.33	0.001	
B	11	45	No Gas	0.005	7.70	1325.07	0.02	
Se	82	125	No Gas	-0.007	N/A	-517.56	0.001	
Tl	205	209	No Gas	0.000	N/A	46.67	0.001	
Pb	208	209	No Gas	0.000	N/A	100.00	0.001	
Th	232	209	No Gas	0.070	73.17	13.33	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	16.67	0.01	
Na	23	45	He	1.137	1.37	318590.84	1	CCB Main CR1 Failed
Mg	24	45	He	0.035	4.15	3900.67	1	
Al	27	45	He	0.000	N/A	120.00	0.1	
K	39	45	He	0.026	47.91	61463.82	1	
Ca	43	45	He	0.003	1307.66	31.33	1	
Ti	47	45	He	0.000	N/A	5.00	0.01	
V	51	72	He	0.000	N/A	330.01	0.002	
Cr	52	72	He	0.000	82.76	2560.25	0.001	
Mn	55	72	He	0.000	N/A	166.67	0.002	
Fe	56	72	He	-0.011	N/A	12832.51	0.1	
Co	59	72	He	0.000	N/A	53.33	0.001	
Ni	60	72	He	0.000	N/A	230.01	0.001	
Cu	63	72	He	0.000	N/A	206.67	0.002	
Zn	66	72	He	-0.002	N/A	123.33	0.01	
As	75	125	He	0.000	31.04	52.83	0.001	
Sr	88	103	He	0.001	12.85	633.36	0.01	
Mo	95	103	He	0.000	55.80	27.78	0.002	
Ag	107	103	He	0.000	70.82	55.56	0.001	
Cd	111	125	He	0.000	6.07	1.00	0.001	
Sn	118	103	He	0.000	12.69	63.33	0.001	
Sb	121	103	He	0.000	109.49	33.33	0.001	
Ba	137	103	He	0.000	160.83	6.67	0.002	
Se	78	125	HEHe	0.000	N/A	2.08	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343231.61	1.03	375661.073333333	91.37	60	120	
Te (No He)	125	No Gas	7052.94	0.97	7537.64333333333	93.57	60	120	
Bi (No He)	209	No Gas	201199.11	0.68	226424.12	88.86	60	120	
Sc	45	He	31558.52	1.49	32694.3333333333	96.53	60	120	
Ge	72	He	22868.27	1.01	24276.1033333333	94.2	60	120	
Rh	103	He	332317.60	0.50	361295.526666667	91.98	60	120	
Te	125	He	1943.48	4.04	2024.60666666667	95.99	60	120	
Te (HE He)	125	HEHe	3185.70	0.95	3544.45333333333	89.88	60	120	

Sample Report

Sample Name	L766918-01 WG791888
File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:50:56
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	5.33	5	
B	11	45	No Gas	0.374	1.98	60164.14	5	
Se	82	125	No Gas	-0.002	N/A	-256.19	5	
Tl	205	209	No Gas	0.000	33.39	186.67	5	
Pb	208	209	No Gas	0.000	163.39	136.67	5	
Th	232	209	No Gas	0.180	36.53	23.33	5	
U	238	209	No Gas	0.008	4.20	17288.55	5	
Na	23	45	He	1719.840	0.27	256063342.85	90	>LDR
Mg	24	45	He	429.659	0.76	34652289.48	90	>LDR
Al	27	45	He	0.018	6.13	790.03	90	
K	39	45	He	8.837	0.53	874023.22	90	
Ca	43	45	He	603.767	1.23	160906.63	90	>LDR
Ti	47	45	He	0.000	72.09	8.67	5	
V	51	72	He	0.002	9.39	2338.54	5	
Cr	52	72	He	0.002	8.28	4052.26	5	
Mn	55	72	He	0.169	2.65	109461.27	5	
Fe	56	72	He	-0.010	N/A	14300.62	90	
Co	59	72	He	0.001	5.61	1896.82	5	
Ni	60	72	He	0.002	3.52	1313.42	5	
Cu	63	72	He	0.001	16.46	1666.80	5	
Zn	66	72	He	0.002	12.37	1201.73	5	
As	75	125	He	0.001	5.15	229.00	5	
Sr	88	103	He	12.763	1.21	10198872.14	5	>LDR
Mo	95	103	He	0.023	1.74	12035.16	5	
Ag	107	103	He	0.000	6.94	92.22	1	
Cd	111	125	He	0.000	23.76	23.00	5	
Sn	118	103	He	0.000	12.68	136.67	2	
Sb	121	103	He	0.000	28.60	220.01	1	
Ba	137	103	He	0.044	3.71	10607.62	2	
Se	78	125	HEHe	0.009	2.35	143.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	322487.39	0.55	375661.073333333	85.85	60	120	
Te (No He)	125	No Gas	5879.05	1.26	7537.64333333333	78	60	120	
Bi (No He)	209	No Gas	173188.92	2.68	226424.12	76.49	60	120	
Sc	45	He	28483.33	1.07	32694.3333333333	87.12	60	120	
Ge	72	He	21022.11	1.46	24276.1033333333	86.6	60	120	
Rh	103	He	294227.91	0.63	361295.526666667	81.44	60	120	
Te	125	He	1655.66	2.04	2024.60666666667	81.78	60	120	
Te (HE He)	125	HEHe	2751.61	2.78	3544.45333333333	77.63	60	120	

Sample Report

Sample Name	L766918-03 WG791888
File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:53:28
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	7.33	5	
B	11	45	No Gas	0.303	1.39	48548.61	5	
Se	82	125	No Gas	0.008	51.75	67.27	5	
Tl	205	209	No Gas	0.000	31.63	250.01	5	
Pb	208	209	No Gas	0.000	10.14	260.01	5	
Th	232	209	No Gas	0.116	40.73	15.00	5	
U	238	209	No Gas	0.009	3.02	19010.95	5	
Na	23	45	He	2639.470	3.77	389436700.86	90	>LDR
Mg	24	45	He	652.672	1.08	52170839.22	90	>LDR
Al	27	45	He	0.018	10.82	761.69	90	
K	39	45	He	10.407	2.14	1010764.20	90	
Ca	43	45	He	743.167	0.87	196284.16	90	>LDR
Ti	47	45	He	0.000	23.58	14.33	5	
V	51	72	He	0.002	11.26	2336.88	5	
Cr	52	72	He	0.002	8.20	3992.24	5	
Mn	55	72	He	0.208	2.03	135085.34	5	
Fe	56	72	He	0.093	0.89	110744.53	90	
Co	59	72	He	0.001	6.88	2490.26	5	
Ni	60	72	He	0.003	15.44	1643.46	5	
Cu	63	72	He	0.001	3.38	2016.85	5	
Zn	66	72	He	0.010	6.30	2838.64	5	
As	75	125	He	0.001	2.80	253.00	5	
Sr	88	103	He	17.756	1.08	13734502.71	5	>LDR
Mo	95	103	He	0.014	0.24	7161.84	5	
Ag	107	103	He	0.000	64.44	41.11	1	
Cd	111	125	He	0.000	13.67	29.67	5	
Sn	118	103	He	0.000	20.60	130.00	2	
Sb	121	103	He	0.000	36.32	170.00	1	
Ba	137	103	He	0.050	0.66	11755.24	2	
Se	78	125	HEHe	0.018	2.39	262.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	320504.04	0.94	375661.073333333	85.32	60	120	
Te (No He)	125	No Gas	5847.93	1.73	7537.64333333333	77.58	60	120	
Bi (No He)	209	No Gas	163746.73	0.99	226424.12	72.32	60	120	
Sc	45	He	28228.42	1.01	32694.3333333333	86.34	60	120	
Ge	72	He	21033.23	1.45	24276.1033333333	86.64	60	120	
Rh	103	He	284818.19	1.77	361295.526666667	78.83	60	120	
Te	125	He	1592.33	3.15	2024.60666666667	78.65	60	120	
Te (HE He)	125	HEHe	2699.60	2.32	3544.45333333333	76.16	60	120	

Sample Report

Sample Name	L766918-05 WG791888
File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:55:44
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.00	5	
B	11	45	No Gas	0.144	0.92	24748.94	5	
Se	82	125	No Gas	-0.008	N/A	-485.44	5	
Tl	205	209	No Gas	0.000	106.92	100.00	5	
Pb	208	209	No Gas	0.000	25.17	403.35	5	
Th	232	209	No Gas	0.308	7.67	41.67	5	
U	238	209	No Gas	0.016	2.21	39457.42	5	
Na	23	45	He	82.986	0.88	13023737.73	90	
Mg	24	45	He	138.907	0.54	11720217.74	90	>LDR
Al	27	45	He	0.013	8.42	625.02	90	
K	39	45	He	10.079	1.50	1034965.17	90	
Ca	43	45	He	581.473	0.49	162117.72	90	>LDR
Ti	47	45	He	0.000	23.80	16.33	5	
V	51	72	He	0.010	1.68	10790.75	5	
Cr	52	72	He	0.000	64.26	2455.23	5	
Mn	55	72	He	0.388	1.30	269525.68	5	
Fe	56	72	He	0.035	2.79	60422.70	90	
Co	59	72	He	0.002	3.94	4584.14	5	
Ni	60	72	He	0.003	5.27	1953.50	5	
Cu	63	72	He	0.000	8.76	976.72	5	
Zn	66	72	He	0.000	94.21	805.03	5	
As	75	125	He	0.004	1.53	768.19	5	
Sr	88	103	He	10.788	0.78	9420177.78	5	>LDR
Mo	95	103	He	0.017	2.24	9822.35	5	
Ag	107	103	He	0.000	381.69	30.00	1	
Cd	111	125	He	0.000	15.13	14.33	5	
Sn	118	103	He	0.000	29.00	136.67	2	
Sb	121	103	He	0.001	16.36	440.02	1	
Ba	137	103	He	0.056	0.68	14808.18	2	
Se	78	125	HEHe	0.000	6.35	10.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	342222.99	0.69	375661.073333333	91.1	60	120	
Te (No He)	125	No Gas	6485.99	2.69	7537.64333333333	86.05	60	120	
Bi (No He)	209	No Gas	190107.29	1.14	226424.12	83.96	60	120	
Sc	45	He	29796.02	0.48	32694.3333333333	91.14	60	120	
Ge	72	He	22574.47	0.68	24276.1033333333	92.99	60	120	
Rh	103	He	321526.30	0.29	361295.526666667	88.99	60	120	
Te	125	He	1687.89	2.70	2024.60666666667	83.37	60	120	
Te (HE He)	125	HEHe	2994.33	0.41	3544.45333333333	84.48	60	120	

Sample Report

Sample Name	L766918-07 WG791888
File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 19:57:57
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	11.33	5	
B	11	45	No Gas	1.073	1.36	177650.91	5	
Se	82	125	No Gas	0.014	16.71	280.05	5	
Tl	205	209	No Gas	0.000	16.48	213.34	5	
Pb	208	209	No Gas	0.001	0.33	2013.53	5	
Th	232	209	No Gas	0.397	11.01	50.00	5	
U	238	209	No Gas	0.088	0.97	200582.75	5	
Na	23	45	He	1861.044	0.69	290040535.68	90	>LDR
Mg	24	45	He	733.405	0.70	61909497.41	90	>LDR
Al	27	45	He	0.014	10.81	640.02	90	
K	39	45	He	34.343	1.07	3395432.35	90	
Ca	43	45	He	791.675	0.61	220824.65	90	>LDR
Ti	47	45	He	0.000	45.21	9.67	5	
V	51	72	He	0.036	2.62	37396.34	5	
Cr	52	72	He	0.000	61.49	2658.60	5	
Mn	55	72	He	0.411	1.96	279965.77	5	
Fe	56	72	He	-0.005	N/A	19960.66	90	
Co	59	72	He	0.003	2.42	5427.76	5	
Ni	60	72	He	0.005	4.56	2656.96	5	
Cu	63	72	He	0.002	8.30	2760.33	5	
Zn	66	72	He	0.001	24.41	925.04	5	
As	75	125	He	0.006	3.24	1311.40	5	
Sr	88	103	He	16.849	1.69	13825903.54	5	>LDR
Mo	95	103	He	0.048	2.07	26296.68	5	
Ag	107	103	He	0.000	39.02	55.56	1	
Cd	111	125	He	0.000	25.42	21.00	5	
Sn	118	103	He	0.000	25.18	110.00	2	
Sb	121	103	He	0.001	16.97	606.69	1	
Ba	137	103	He	0.042	2.72	10550.92	2	
Se	78	125	HEHe	0.021	4.83	335.50	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	333501.31	0.98	375661.073333333	88.78	60	120	
Te (No He)	125	No Gas	6052.47	2.00	7537.64333333333	80.3	60	120	
Bi (No He)	209	No Gas	179350.52	0.52	226424.12	79.21	60	120	
Sc	45	He	29812.63	2.57	32694.3333333333	91.19	60	120	
Ge	72	He	22121.51	3.80	24276.1033333333	91.12	60	120	
Rh	103	He	302212.20	1.94	361295.526666667	83.65	60	120	
Te	125	He	1676.78	5.60	2024.60666666667	82.82	60	120	
Te (HE He)	125	HEHe	2820.29	2.40	3544.45333333333	79.57	60	120	

Sample Report

Sample Name	L767115-03 WG791888
File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:00:12
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	12.67	5	
B	11	45	No Gas	1.326	2.61	226269.80	5	
Se	82	125	No Gas	-0.009	N/A	-483.02	5	
Tl	205	209	No Gas	0.000	8.56	133.33	5	
Pb	208	209	No Gas	0.000	122.07	126.67	5	
Th	232	209	No Gas	0.265	19.62	33.33	5	
U	238	209	No Gas	0.092	1.13	206288.50	5	
Na	23	45	He	2643.452	3.50	411993700.53	90	>LDR
Mg	24	45	He	953.585	1.83	80520650.46	90	>LDR
Al	27	45	He	0.015	3.47	685.02	90	
K	39	45	He	13.737	3.64	1391743.99	90	
Ca	43	45	He	961.577	1.90	268295.72	90	>LDR
Ti	47	45	He	0.000	63.04	11.67	5	
V	51	72	He	0.010	1.91	10475.51	5	
Cr	52	72	He	0.000	N/A	2333.54	5	
Mn	55	72	He	1.950	1.79	1356263.47	5	
Fe	56	72	He	0.346	2.06	375154.81	90	
Co	59	72	He	0.014	2.21	26414.38	5	
Ni	60	72	He	0.009	5.18	4797.55	5	
Cu	63	72	He	0.000	23.48	1036.72	5	
Zn	66	72	He	0.001	39.57	1025.05	5	
As	75	125	He	0.033	11.67	6754.09	5	
Sr	88	103	He	19.015	0.84	15510471.44	5	>LDR
Mo	95	103	He	0.054	2.10	29182.32	5	
Ag	107	103	He	0.000	91.07	36.67	1	
Cd	111	125	He	0.000	4.98	28.67	5	
Sn	118	103	He	0.000	21.71	100.00	2	
Sb	121	103	He	0.000	18.24	183.34	1	
Ba	137	103	He	0.049	2.42	12128.86	2	
Se	78	125	HEHe	0.001	19.72	20.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343687.17	0.96	375661.073333333	91.49	60	120	
Te (No He)	125	No Gas	5959.08	1.00	7537.64333333333	79.06	60	120	
Bi (No He)	209	No Gas	174996.76	0.80	226424.12	77.29	60	120	
Sc	45	He	29820.43	0.10	32694.3333333333	91.21	60	120	
Ge	72	He	22605.63	1.64	24276.1033333333	93.12	60	120	
Rh	103	He	300380.11	1.32	361295.526666667	83.14	60	120	
Te	125	He	1691.23	11.52	2024.60666666667	83.53	60	120	
Te (HE He)	125	HEHe	2730.27	1.38	3544.45333333333	77.03	60	120	

Sample Report

Sample Name	L767115-04 WG791888
File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:02:28
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	290.24	17.33	5	
B	11	45	No Gas	1.357	0.63	228675.94	5	
Se	82	125	No Gas	-0.011	N/A	-543.38	5	
Tl	205	209	No Gas	0.000	48.02	136.67	5	
Pb	208	209	No Gas	0.000	427.18	96.67	5	
Th	232	209	No Gas	0.183	13.84	23.33	5	
U	238	209	No Gas	0.092	0.88	200553.24	5	
Na	23	45	He	2637.889	2.47	407921447.25	90	>LDR
Mg	24	45	He	965.660	0.82	80938535.46	90	>LDR
Al	27	45	He	0.013	8.77	621.69	90	
K	39	45	He	13.823	2.59	1389673.73	90	
Ca	43	45	He	958.589	1.74	265416.25	90	>LDR
Ti	47	45	He	0.000	136.55	11.67	5	
V	51	72	He	0.010	1.49	10392.10	5	
Cr	52	72	He	0.000	N/A	2311.87	5	
Mn	55	72	He	1.964	3.33	1358678.10	5	
Fe	56	72	He	0.359	2.20	385776.61	90	
Co	59	72	He	0.014	1.12	25883.43	5	
Ni	60	72	He	0.009	1.55	4747.50	5	
Cu	63	72	He	0.000	23.96	740.03	5	
Zn	66	72	He	0.001	6.35	973.37	5	
As	75	125	He	0.035	5.26	6902.66	5	
Sr	88	103	He	19.079	0.80	15137478.11	5	>LDR
Mo	95	103	He	0.054	1.32	28318.36	5	
Ag	107	103	He	0.000	78.62	37.78	1	
Cd	111	125	He	0.000	18.48	30.33	5	
Sn	118	103	He	0.000	17.57	136.67	2	
Sb	121	103	He	0.000	16.06	223.34	1	
Ba	137	103	He	0.051	3.57	12382.47	2	
Se	78	125	HEHe	0.001	4.66	20.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	339596.57	0.65	375661.073333333	90.4	60	120	
Te (No He)	125	No Gas	6045.79	2.79	7537.64333333333	80.21	60	120	
Bi (No He)	209	No Gas	171468.03	1.40	226424.12	75.73	60	120	
Sc	45	He	29604.38	3.58	32694.3333333333	90.55	60	120	
Ge	72	He	22476.48	1.15	24276.1033333333	92.59	60	120	
Rh	103	He	292155.72	1.13	361295.526666667	80.86	60	120	
Te	125	He	1627.89	4.68	2024.60666666667	80.41	60	120	
Te (HE He)	125	HEHe	2671.59	4.64	3544.45333333333	75.37	60	120	

Sample Report

Sample Name	L767115-08 WG791888
File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:05:01
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	10.67	5	
B	11	45	No Gas	0.413	0.39	68100.97	5	
Se	82	125	No Gas	-0.003	N/A	-275.99	5	
Tl	205	209	No Gas	0.000	32.98	300.01	5	
Pb	208	209	No Gas	0.000	32.78	416.68	5	
Th	232	209	No Gas	0.224	29.78	26.67	5	
U	238	209	No Gas	0.038	1.17	79745.53	5	
Na	23	45	He	4272.575	1.85	648977030.33	90	>LDR
Mg	24	45	He	1054.221	0.98	86769255.38	90	>LDR
Al	27	45	He	0.013	7.20	613.35	90	
K	39	45	He	19.356	2.46	1889274.45	90	
Ca	43	45	He	1126.802	1.56	306432.62	90	>LDR
Ti	47	45	He	0.000	38.36	11.67	5	
V	51	72	He	0.019	5.34	20095.64	5	
Cr	52	72	He	0.001	13.62	3225.39	5	
Mn	55	72	He	0.134	0.77	93178.17	5	
Fe	56	72	He	0.015	7.76	40413.14	90	
Co	59	72	He	0.001	7.08	1503.44	5	
Ni	60	72	He	0.002	3.24	1470.10	5	
Cu	63	72	He	0.001	4.73	1820.15	5	
Zn	66	72	He	0.000	N/A	660.02	5	
As	75	125	He	0.007	3.11	1392.40	5	
Sr	88	103	He	24.075	0.86	18602366.81	5	>LDR
Mo	95	103	He	0.031	1.12	15778.84	5	
Ag	107	103	He	0.000	10.67	92.22	1	
Cd	111	125	He	0.000	17.00	31.33	5	
Sn	118	103	He	0.000	12.22	183.34	2	
Sb	121	103	He	0.000	9.56	223.34	1	
Ba	137	103	He	0.064	4.85	15018.40	2	
Se	78	125	HEHe	0.011	0.71	162.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	331231.79	0.62	375661.073333333	88.17	60	120	
Te (No He)	125	No Gas	5681.20	3.72	7537.64333333333	75.37	60	120	
Bi (No He)	209	No Gas	162755.85	1.47	226424.12	71.88	60	120	
Sc	45	He	29068.86	1.24	32694.3333333333	88.91	60	120	
Ge	72	He	22542.16	1.22	24276.1033333333	92.86	60	120	
Rh	103	He	284507.77	0.56	361295.526666667	78.75	60	120	
Te	125	He	1606.77	4.15	2024.60666666667	79.36	60	120	
Te (HE He)	125	HEHe	2617.59	1.17	3544.45333333333	73.85	60	120	

Sample Report

Sample Name	L767115-06 WG791888
File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:07:17
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	5.33	5	
B	11	45	No Gas	0.503	1.82	82404.13	5	
Se	82	125	No Gas	-0.016	N/A	-719.32	5	
Tl	205	209	No Gas	0.000	41.78	270.01	5	
Pb	208	209	No Gas	0.000	22.62	296.68	5	
Th	232	209	No Gas	0.303	41.72	35.00	5	
U	238	209	No Gas	0.055	3.87	113337.45	5	
Na	23	45	He	3744.637	2.27	564655764.92	90	>LDR
Mg	24	45	He	848.539	1.60	69325962.30	90	>LDR
Al	27	45	He	0.014	2.90	633.35	90	
K	39	45	He	14.948	0.93	1460489.51	90	
Ca	43	45	He	973.618	1.31	262837.52	90	>LDR
Ti	47	45	He	0.000	58.99	11.33	5	
V	51	72	He	0.008	1.55	8544.25	5	
Cr	52	72	He	0.000	48.45	2736.95	5	
Mn	55	72	He	0.600	2.03	407864.04	5	
Fe	56	72	He	-0.004	N/A	20808.59	90	
Co	59	72	He	0.003	2.90	5851.30	5	
Ni	60	72	He	0.008	5.36	4460.78	5	
Cu	63	72	He	0.001	16.54	1730.14	5	
Zn	66	72	He	-0.001	N/A	603.35	5	
As	75	125	He	0.003	4.08	527.01	5	
Sr	88	103	He	20.893	2.08	16059118.10	5	>LDR
Mo	95	103	He	0.036	0.99	18570.03	5	
Ag	107	103	He	0.000	39.68	65.55	1	
Cd	111	125	He	0.000	5.69	36.00	5	
Sn	118	103	He	0.000	28.00	180.01	2	
Sb	121	103	He	0.000	47.12	220.00	1	
Ba	137	103	He	0.060	3.78	13977.27	2	
Se	78	125	HEHe	0.007	4.53	102.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	328850.11	1.10	375661.073333333	87.54	60	120	
Te (No He)	125	No Gas	5856.81	1.65	7537.64333333333	77.7	60	120	
Bi (No He)	209	No Gas	162130.53	1.32	226424.12	71.6	60	120	
Sc	45	He	28850.68	0.64	32694.3333333333	88.24	60	120	
Ge	72	He	22073.70	2.83	24276.1033333333	90.93	60	120	
Rh	103	He	283036.92	1.06	361295.526666667	78.34	60	120	
Te	125	He	1508.98	4.29	2024.60666666667	74.53	60	120	
Te (HE He)	125	HEHe	2651.59	1.30	3544.45333333333	74.81	60	120	

Sample Report

Sample Name	MS L767115-06 WG791888
File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:09:33
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.044	0.81	12026.17	5	
B	11	45	No Gas	0.547	1.87	89195.82	5	
Se	82	125	No Gas	0.039	10.72	1056.70	5	
Tl	205	209	No Gas	0.053	0.35	95521.49	5	
Pb	208	209	No Gas	0.053	0.94	68397.69	5	
Th	232	209	No Gas	1193.097	0.77	126680.11	5	>LDR
U	238	209	No Gas	0.110	0.26	224761.25	5	
Na	23	45	He	3563.799	1.50	563212364.94	90	>LDR
Mg	24	45	He	840.116	1.71	71937290.59	90	>LDR
Al	27	45	He	5.005	0.79	193093.96	90	
K	39	45	He	19.535	1.01	1983402.00	90	
Ca	43	45	He	938.153	1.22	265439.88	90	>LDR
Ti	47	45	He	0.050	0.17	1617.42	5	
V	51	72	He	0.056	1.97	58771.51	5	
Cr	52	72	He	0.046	1.28	58099.06	5	
Mn	55	72	He	0.643	1.55	439680.12	5	
Fe	56	72	He	4.545	1.10	4545051.81	90	
Co	59	72	He	0.049	1.39	92094.95	5	
Ni	60	72	He	0.054	0.96	27570.02	5	
Cu	63	72	He	0.046	1.76	62371.67	5	
Zn	66	72	He	0.042	2.51	10577.28	5	
As	75	125	He	0.058	3.38	10908.64	5	
Sr	88	103	He	21.535	1.21	16447369.76	5	>LDR
Mo	95	103	He	0.093	0.16	46886.34	5	
Ag	107	103	He	0.050	0.42	74986.94	1	
Cd	111	125	He	0.050	4.64	10808.17	5	
Sn	118	103	He	0.053	1.78	25650.58	2	
Sb	121	103	He	0.056	1.60	39459.81	1	
Ba	137	103	He	0.117	4.19	27070.39	2	
Se	78	125	HEHe	0.062	1.05	929.95	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	327711.66	0.66	375661.073333333	87.24	60	120	
Te (No He)	125	No Gas	5684.53	1.15	7537.64333333333	75.42	60	120	
Bi (No He)	209	No Gas	159626.96	1.02	226424.12	70.5	60	120	
Sc	45	He	30240.14	0.35	32694.3333333333	92.49	60	120	
Ge	72	He	22227.25	0.36	24276.1033333333	91.56	60	120	
Rh	103	He	281232.82	1.53	361295.526666667	77.84	60	120	
Te	125	He	1577.88	2.88	2024.60666666667	77.94	60	120	
Te (HE He)	125	HEHe	2708.60	1.52	3544.45333333333	76.42	60	120	

Sample Report

Sample Name	MSD L767115-06 WG791888
File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:11:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.044	2.22	12475.87	5	
B	11	45	No Gas	0.548	0.99	92599.83	5	
Se	82	125	No Gas	0.043	8.96	1233.18	5	
Tl	205	209	No Gas	0.053	1.06	97892.32	5	
Pb	208	209	No Gas	0.052	1.08	69392.96	5	
Th	232	209	No Gas	1192.391	0.22	130164.09	5	>LDR
U	238	209	No Gas	0.110	0.21	229703.88	5	
Na	23	45	He	3477.172	2.85	576730364.74	90	>LDR
Mg	24	45	He	819.830	2.82	73677278.90	90	>LDR
Al	27	45	He	4.971	2.81	201287.85	90	
K	39	45	He	19.409	1.93	2068847.89	90	
Ca	43	45	He	928.336	1.86	275715.99	90	>LDR
Ti	47	45	He	0.050	3.83	1691.77	5	
V	51	72	He	0.056	1.54	60861.68	5	
Cr	52	72	He	0.046	2.11	60000.05	5	
Mn	55	72	He	0.632	2.28	452279.82	5	
Fe	56	72	He	4.457	2.20	4660217.95	90	
Co	59	72	He	0.048	2.48	94151.69	5	
Ni	60	72	He	0.053	4.69	28120.93	5	
Cu	63	72	He	0.045	3.08	63335.73	5	
Zn	66	72	He	0.042	3.55	11069.31	5	
As	75	125	He	0.058	2.02	11195.02	5	
Sr	88	103	He	21.172	2.05	16859974.75	5	>LDR
Mo	95	103	He	0.092	1.49	48434.80	5	
Ag	107	103	He	0.049	0.77	77568.80	1	
Cd	111	125	He	0.050	1.49	11118.41	5	
Sn	118	103	He	0.052	0.83	26345.20	2	
Sb	121	103	He	0.058	0.91	42582.22	1	
Ba	137	103	He	0.113	1.46	27384.40	2	
Se	78	125	HEHe	0.062	2.54	936.53	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	339821.84	1.25	375661.073333333	90.46	60	120	
Te (No He)	125	No Gas	5919.07	2.36	7537.64333333333	78.53	60	120	
Bi (No He)	209	No Gas	164108.35	1.11	226424.12	72.48	60	120	
Sc	45	He	31752.30	2.60	32694.3333333333	97.12	60	120	
Ge	72	He	23241.08	1.24	24276.1033333333	95.74	60	120	
Rh	103	He	293219.78	0.16	361295.526666667	81.16	60	120	
Te	125	He	1608.99	2.45	2024.60666666667	79.47	60	120	
Te (HE He)	125	HEHe	2729.94	2.45	3544.45333333333	77.02	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:14:04
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.097	0.32	35459.79	0.1	96.82	90	110	
B	11	45	No Gas	0.112	3.04	24834.04	0.1	111.9	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.094	2.02	4192.56	0.1	93.98	90	110	
Tl	205	209	No Gas	0.105	0.52	281900.55	0.1	104.53	90	110	
Pb	208	209	No Gas	0.104	1.07	201527.04	0.1	104.02	90	110	
Th	232	209	No Gas	0.956	15.12	155.00	0.1	956.17	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.103	0.65	315201.71	0.1	103.4	90	110	
Na	23	45	He	12.826	3.34	2747687.35	10	128.26	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.352	1.49	1148792.92	10	103.52	90	110	
Al	27	45	He	1.013	3.32	50748.76	1	101.33	90	110	
K	39	45	He	10.515	3.77	1408728.10	10	105.15	90	110	
Ca	43	45	He	10.485	3.60	3877.19	10	104.85	90	110	
Ti	47	45	He	0.102	4.02	4273.63	0.1	102.45	90	110	
V	51	72	He	0.101	0.79	136299.96	0.1	101.11	90	110	
Cr	52	72	He	0.100	1.51	158156.32	0.1	99.8	90	110	
Mn	55	72	He	0.100	1.89	89032.96	0.1	100.46	90	110	
Fe	56	72	He	0.985	1.73	1294237.95	1	98.49	90	110	
Co	59	72	He	0.103	1.08	246575.82	0.1	102.63	90	110	
Ni	60	72	He	0.102	2.32	66563.06	0.1	102.04	90	110	
Cu	63	72	He	0.102	0.99	176007.98	0.1	101.7	90	110	
Zn	66	72	He	0.098	1.40	30868.14	0.1	98.25	90	110	
As	75	125	He	0.098	2.92	28545.93	0.1	98.15	90	110	
Sr	88	103	He	0.108	1.03	120525.67	0.1	108.2	90	110	
Mo	95	103	He	0.104	1.03	76619.89	0.1	103.76	90	110	
Ag	107	103	He	0.102	0.38	224652.76	0.1	101.81	90	110	
Cd	111	125	He	0.097	2.07	32142.72	0.1	96.69	90	110	
Sn	118	103	He	0.104	0.99	73226.05	0.1	103.89	90	110	
Sb	121	103	He	0.102	0.72	104864.11	0.1	101.94	90	110	
Ba	137	103	He	0.103	0.59	34981.42	0.1	103.34	90	110	
Se	78	125	HEHe	0.103	0.24	2252.26	0.1	102.84	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	395389.89	0.97	375661.073333333	105.25	60	120	
Te (No He)	125	No Gas	7672.14	2.33	7537.64333333333	101.78	60	120	
Bi (No He)	209	No Gas	214901.09	0.41	226424.12	94.91	60	120	
Sc	45	He	35260.23	1.95	32694.3333333333	107.85	60	120	
Ge	72	He	25842.17	0.80	24276.1033333333	106.45	60	120	
Rh	103	He	368902.44	1.06	361295.526666667	102.11	60	120	
Te	125	He	2183.52	1.98	2024.60666666667	107.85	60	120	
Te (HE He)	125	HEHe	3568.80	0.31	3544.45333333333	100.69	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:21:56
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	6.67	0.001	
B	11	45	No Gas	0.009	3.04	2386.88	0.02	
Se	82	125	No Gas	-0.006	N/A	-532.47	0.001	
Tl	205	209	No Gas	0.000	N/A	40.00	0.001	
Pb	208	209	No Gas	0.000	N/A	86.67	0.001	
Th	232	209	No Gas	0.072	72.56	15.00	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	36.67	0.01	
Na	23	45	He	1.307	2.97	396454.88	1	CCB Main CR1 Failed
Mg	24	45	He	0.051	7.25	6201.53	1	
Al	27	45	He	-0.001	N/A	105.00	0.1	
K	39	45	He	0.018	37.25	68655.63	1	
Ca	43	45	He	0.005	266.37	36.00	1	
Ti	47	45	He	0.000	762.12	8.00	0.01	
V	51	72	He	0.000	39.16	540.02	0.002	
Cr	52	72	He	0.000	N/A	2350.21	0.001	
Mn	55	72	He	0.000	N/A	223.34	0.002	
Fe	56	72	He	-0.013	N/A	12619.02	0.1	
Co	59	72	He	0.000	N/A	46.67	0.001	
Ni	60	72	He	0.000	N/A	263.34	0.001	
Cu	63	72	He	0.000	N/A	140.00	0.002	
Zn	66	72	He	-0.002	N/A	171.67	0.01	
As	75	125	He	0.000	37.68	57.83	0.001	
Sr	88	103	He	0.002	70.03	2040.14	0.01	
Mo	95	103	He	0.000	32.16	17.78	0.002	
Ag	107	103	He	0.000	44.93	70.00	0.001	
Cd	111	125	He	0.000	51939.71	0.33	0.001	
Sn	118	103	He	0.000	36.09	33.33	0.001	
Sb	121	103	He	0.000	76.98	40.00	0.001	
Ba	137	103	He	0.000	87.96	16.67	0.002	
Se	78	125	HEHe	0.000	N/A	2.50	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	395301.11	2.02	375661.073333333	105.23	60	120	
Te (No He)	125	No Gas	7699.95	3.43	7537.64333333333	102.15	60	120	
Bi (No He)	209	No Gas	219532.13	1.13	226424.12	96.96	60	120	
Sc	45	He	35781.54	1.85	32694.3333333333	109.44	60	120	
Ge	72	He	26313.03	1.62	24276.1033333333	108.39	60	120	
Rh	103	He	381429.51	0.19	361295.526666667	105.57	60	120	
Te	125	He	2095.73	5.59	2024.60666666667	103.51	60	120	
Te (HE He)	125	HEHe	3650.15	2.80	3544.45333333333	102.98	60	120	

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	045CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:33:39
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	7.33	62.98
B	11	45	No Gas	1633.43	0.98
Tl	205	209	No Gas	23.33	98.97
Pb	208	209	No Gas	73.33	15.75
Th	232	209	No Gas	10.00	50.00
U	238	209	No Gas	16.67	34.64
Na	23	45	He	302045.28	0.99
Mg	24	45	He	5047.68	3.23
Al	27	45	He	123.33	23.05
K	39	45	He	69699.80	0.93
Ca	43	45	He	40.00	32.79
Ti	47	45	He	8.67	43.68
V	51	72	He	555.01	13.27
Cr	52	72	He	2310.20	8.36
Mn	55	72	He	230.01	8.70
Fe	56	72	He	9249.78	1.73
Co	59	72	He	40.00	86.60
Ni	60	72	He	446.68	13.50
Cu	63	72	He	223.34	13.68
Zn	66	72	He	113.33	22.64
As	75	125	He	51.83	9.71
Sr	88	103	He	900.04	10.94
Mo	95	103	He	8.89	78.08
Ag	107	103	He	42.22	35.60
Cd	111	125	He	3.33	34.64
Sn	118	103	He	30.00	33.33
Sb	121	103	He	16.67	69.28
Se	78	125	HEHe	2.50	10.00

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	417017.51	1.15
Te (No He)	125	No Gas	8200.24	1.11
Bi (No He)	209	No Gas	231432.31	1.40

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	36540.28	4.05
Ge	72	He	26120.58	3.09
Rh	103	He	379600.85	3.21
Te	125	He	2104.61	0.66
Te (HE He)	125	HEHe	3773.85	1.32

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	046CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:36:09
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	376.01	5.07
B	11	45	No Gas	1856.80	1.48
Tl	205	209	No Gas	2843.70	2.00
Pb	208	209	No Gas	2276.91	5.09
Th	232	209	No Gas	11.67	65.47
U	238	209	No Gas	3263.82	3.63
Na	23	45	He	312202.85	1.62
Mg	24	45	He	16850.02	3.71
Al	27	45	He	660.02	3.47
K	39	45	He	83786.96	2.26
Ca	43	45	He	102.00	10.19
Ti	47	45	He	56.00	23.42
V	51	72	He	1991.82	5.66
Cr	52	72	He	3728.84	4.95
Mn	55	72	He	1156.73	5.07
Fe	56	72	He	25322.43	2.30
Co	59	72	He	2660.29	4.14
Ni	60	72	He	1023.39	3.95
Cu	63	72	He	2120.19	12.05
Zn	66	72	He	440.01	3.41
As	75	125	He	370.34	2.28
Sr	88	103	He	2200.20	3.72
Mo	95	103	He	786.69	5.51
Ag	107	103	He	2274.64	5.84
Cd	111	125	He	325.67	2.04
Sn	118	103	He	806.71	10.54
Sb	121	103	He	1070.06	8.31
Ba	137	103	He	336.68	19.33
Se	78	125	HEHe	24.17	6.73

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	424857.43	0.92	417017.506666667	101.88	60	120	
Te (No He)	125	No Gas	8505.98	1.31	8200.24	103.73	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	235855.56	0.90	231432.306666667	101.91	60	120	
Sc	45	He	37792.12	0.78	36540.28	103.43	60	120	
Ge	72	He	27211.37	0.28	26120.5833333333	104.18	60	120	
Rh	103	He	398859.08	0.38	379600.853333333	105.07	60	120	
Te	125	He	2275.76	3.30	2104.61333333333	108.13	60	120	
Te (HE He)	125	HEHe	3818.86	1.17	3773.85	101.19	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	047CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:38:40
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	752.02	4.44
B	11	45	No Gas	2148.51	2.49
Tl	205	209	No Gas	5841.42	2.14
Pb	208	209	No Gas	4610.90	3.58
Th	232	209	No Gas	23.33	32.73
U	238	209	No Gas	6868.61	2.24
Na	23	45	He	320954.56	0.10
Mg	24	45	He	27753.69	1.61
Al	27	45	He	1226.73	6.95
K	39	45	He	96974.33	1.87
Ca	43	45	He	108.67	5.31
Ti	47	45	He	103.67	9.17
V	51	72	He	3410.43	2.16
Cr	52	72	He	5462.74	8.04
Mn	55	72	He	2153.53	7.05
Fe	56	72	He	47652.03	1.32
Co	59	72	He	5127.66	2.26
Ni	60	72	He	1790.15	10.79
Cu	63	72	He	3880.60	3.37
Zn	66	72	He	880.03	7.39
As	75	125	He	686.69	3.47
Sr	88	103	He	3173.75	7.98
Mo	95	103	He	1530.09	4.78
Ag	107	103	He	4749.72	1.84
Cd	111	125	He	665.02	2.61
Sn	118	103	He	1533.44	8.76
Sb	121	103	He	2380.24	1.93
Ba	137	103	He	800.04	9.92
Se	78	125	HEHe	48.00	4.97

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	431137.62	0.93	417017.506666667	103.39	60	120	
Te (No He)	125	No Gas	8567.12	1.03	8200.24	104.47	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	238914.22	1.66	231432.306666667	103.23	60	120	
Sc	45	He	37924.74	0.63	36540.28	103.79	60	120	
Ge	72	He	27511.92	1.18	26120.5833333333	105.33	60	120	
Rh	103	He	400186.48	1.06	379600.853333333	105.42	60	120	
Te	125	He	2227.97	4.30	2104.61333333333	105.86	60	120	
Te (HE He)	125	HEHe	3812.86	3.54	3773.85	101.03	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	048CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:41:27
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3855.18	3.21
B	11	45	No Gas	3758.84	3.53
Se	82	125	No Gas	180.11	59.92
Tl	205	209	No Gas	30405.47	2.15
Pb	208	209	No Gas	22456.15	2.20
Th	232	209	No Gas	18.33	15.75
U	238	209	No Gas	34275.83	0.91
Na	23	45	He	486147.35	0.69
Mg	24	45	He	126500.17	1.75
Al	27	45	He	5679.47	3.79
K	39	45	He	213497.89	1.82
Ca	43	45	He	454.68	6.26
Ti	47	45	He	463.01	3.54
V	51	72	He	14799.27	0.65
Cr	52	72	He	19292.87	3.37
Mn	55	72	He	9836.84	6.18
Fe	56	72	He	148956.41	0.29
Co	59	72	He	25953.61	0.64
Ni	60	72	He	6978.46	0.91
Cu	63	72	He	18588.95	1.24
Zn	66	72	He	3462.12	1.31
As	75	125	He	3084.00	1.28
Sr	88	103	He	13293.08	0.61
Mo	95	103	He	8157.95	1.66
Ag	107	103	He	24400.14	1.77
Cd	111	125	He	3480.10	1.63
Sn	118	103	He	8039.13	4.07
Sb	121	103	He	11198.06	1.79
Ba	137	103	He	3740.60	5.80
Se	78	125	HEHe	233.67	6.44

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	432288.71	0.85	417017.506666667	103.66	60	120	
Te (No He)	125	No Gas	8192.46	3.03	8200.24	99.91	60	120	
Bi (No He)	209	No Gas	241088.79	0.49	231432.306666667	104.17	60	120	
Sc	45	He	38255.50	0.41	36540.28	104.69	60	120	
Ge	72	He	27637.76	2.19	26120.5833333333	105.81	60	120	
Rh	103	He	406282.48	0.21	379600.853333333	107.03	60	120	
Te	125	He	2410.22	1.10	2104.61333333333	114.52	60	120	
Te (HE He)	125	HEHe	3949.90	2.44	3773.85	104.66	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	049CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:43:56
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	19411.22	2.04
B	11	45	No Gas	13327.68	2.50
Se	82	125	No Gas	2254.67	5.00
Tl	205	209	No Gas	151783.38	1.56
Pb	208	209	No Gas	110854.28	0.69
Th	232	209	No Gas	26.67	78.06
U	238	209	No Gas	171092.70	1.68
Na	23	45	He	1372787.22	1.76
Mg	24	45	He	614484.46	0.56
Al	27	45	He	27692.76	1.36
K	39	45	He	764040.46	1.00
Ca	43	45	He	2101.49	2.62
Ti	47	45	He	2272.85	0.24
V	51	72	He	72863.36	0.88
Cr	52	72	He	84891.52	0.74
Mn	55	72	He	47989.91	1.25
Fe	56	72	He	694036.32	0.97
Co	59	72	He	129186.52	0.28
Ni	60	72	He	35697.78	2.35
Cu	63	72	He	92991.76	0.93
Zn	66	72	He	17542.43	2.63
As	75	125	He	15153.47	0.07
Sr	88	103	He	62976.81	2.50
Mo	95	103	He	40295.10	0.84
Ag	107	103	He	120271.41	0.52
Cd	111	125	He	17376.75	1.13
Sn	118	103	He	38694.09	0.91
Sb	121	103	He	57254.72	0.68
Ba	137	103	He	18492.74	3.35
Se	78	125	HEHe	1165.05	1.90

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	434430.64	0.68	417017.506666667	104.18	60	120	
Te (No He)	125	No Gas	8498.20	1.92	8200.24	103.63	60	120	
Bi (No He)	209	No Gas	243571.51	0.33	231432.306666667	105.25	60	120	
Sc	45	He	38707.93	0.66	36540.28	105.93	60	120	
Ge	72	He	28546.12	1.77	26120.5833333333	109.29	60	120	
Rh	103	He	405793.18	0.45	379600.853333333	106.9	60	120	
Te	125	He	2364.66	0.99	2104.61333333333	112.36	60	120	
Te (HE He)	125	HEHe	3964.24	1.08	3773.85	105.04	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	050CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:46:25
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	38471.16	0.85
B	11	45	No Gas	25127.86	0.80
Se	82	125	No Gas	4812.65	3.19
Tl	205	209	No Gas	300203.98	1.13
Pb	208	209	No Gas	215008.72	0.57
Th	232	209	No Gas	30.00	16.67
U	238	209	No Gas	340215.89	0.70
Na	23	45	He	2450495.27	0.06
Mg	24	45	He	1225320.55	1.43
Al	27	45	He	54187.38	0.73
K	39	45	He	1496546.07	1.07
Ca	43	45	He	4065.24	2.57
Ti	47	45	He	4557.38	1.97
V	51	72	He	143841.84	0.26
Cr	52	72	He	166137.04	0.65
Mn	55	72	He	96341.77	1.81
Fe	56	72	He	1360987.48	0.62
Co	59	72	He	253325.87	0.87
Ni	60	72	He	68733.67	0.68
Cu	63	72	He	183087.81	0.49
Zn	66	72	He	32812.37	0.60
As	75	125	He	30101.59	0.39
Sr	88	103	He	125356.54	1.26
Mo	95	103	He	80238.37	0.44
Ag	107	103	He	238595.56	0.44
Cd	111	125	He	34168.18	0.64
Sn	118	103	He	78249.58	1.68
Sb	121	103	He	112641.11	1.23
Ba	137	103	He	37354.46	1.59
Se	78	125	HEHe	2308.60	2.09

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	431014.11	1.22	417017.506666667	103.36	60	120	
Te (No He)	125	No Gas	8290.29	2.48	8200.24	101.1	60	120	
Bi (No He)	209	No Gas	241255.75	1.99	231432.306666667	104.24	60	120	
Sc	45	He	38467.14	1.07	36540.28	105.27	60	120	
Ge	72	He	27942.72	1.44	26120.5833333333	106.98	60	120	
Rh	103	He	403840.34	0.63	379600.853333333	106.39	60	120	
Te	125	He	2421.34	6.52	2104.61333333333	115.05	60	120	
Te (HE He)	125	HEHe	3895.21	0.66	3773.85	103.22	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	051CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:48:54
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	76794.80	0.59
B	11	45	No Gas	49189.02	0.58
Se	82	125	No Gas	9860.92	1.48
Tl	205	209	No Gas	594868.75	0.93
Pb	208	209	No Gas	428261.06	0.92
Th	232	209	No Gas	36.67	51.63
U	238	209	No Gas	675639.88	0.83
Na	23	45	He	4517582.02	1.18
Mg	24	45	He	2396124.81	0.95
Al	27	45	He	106675.80	1.11
K	39	45	He	2824875.79	0.66
Ca	43	45	He	7949.51	1.62
Ti	47	45	He	9012.78	0.72
V	51	72	He	284549.42	0.80
Cr	52	72	He	323777.25	0.66
Mn	55	72	He	186829.48	1.00
Fe	56	72	He	2721994.75	0.93
Co	59	72	He	497694.45	0.89
Ni	60	72	He	135349.44	2.03
Cu	63	72	He	359189.10	1.47
Zn	66	72	He	64518.85	0.89
As	75	125	He	59573.08	0.64
Sr	88	103	He	248220.13	0.64
Mo	95	103	He	158945.27	0.34
Ag	107	103	He	458086.46	0.51
Cd	111	125	He	67962.54	0.49
Sn	118	103	He	151933.83	1.47
Sb	121	103	He	221575.19	0.80
Ba	137	103	He	74813.56	1.79
Se	78	125	HEHe	4599.07	0.16

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	433160.70	1.14	417017.506666667	103.87	60	120	
Te (No He)	125	No Gas	8432.60	0.91	8200.24	102.83	60	120	
Bi (No He)	209	No Gas	238893.26	0.18	231432.306666667	103.22	60	120	
Sc	45	He	38653.31	1.07	36540.28	105.78	60	120	
Ge	72	He	28153.16	1.85	26120.5833333333	107.78	60	120	
Rh	103	He	406125.41	0.44	379600.853333333	106.99	60	120	
Te	125	He	2301.32	1.30	2104.61333333333	109.35	60	120	
Te (HE He)	125	HEHe	3785.86	2.42	3773.85	100.32	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	052_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 20:51:23
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.095	0.60	38259.97	0.1	95.15	90	110	
B	11	45	No Gas	0.102	0.83	25010.95	0.1	102.49	90	110	
Se	82	125	No Gas	0.098	6.67	4821.50	0.1	97.77	90	110	
Tl	205	209	No Gas	0.097	1.03	297468.78	0.1	97.09	90	110	
Pb	208	209	No Gas	0.098	0.92	215674.20	0.1	97.99	90	110	
Th	232	209	No Gas	2108.909	0.57	380527.06	0.1	2108908.69	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.098	0.78	339038.22	0.1	97.91	90	110	
Na	23	45	He	10.068	2.21	2376345.22	10	100.68	90	110	
Mg	24	45	He	9.866	1.13	1191436.94	10	98.66	90	110	
Al	27	45	He	9.736	0.54	529298.35	1	973.62	90	110	ICV Main CR1 Failed
K	39	45	He	9.963	0.52	1456820.19	10	99.63	90	110	
Ca	43	45	He	10.022	0.29	4033.91	10	100.22	90	110	
Ti	47	45	He	0.098	0.78	4473.02	0.1	98.49	90	110	
V	51	72	He	0.096	1.21	141084.82	0.1	96.41	90	110	
Cr	52	72	He	0.095	0.75	162913.44	0.1	94.62	90	110	
Mn	55	72	He	0.097	2.19	93252.18	0.1	96.94	90	110	
Fe	56	72	He	9.537	1.30	13329716.47	1	953.73	90	110	ICV Main CR1 Failed
Co	59	72	He	0.097	2.30	253031.77	0.1	97.03	90	110	
Ni	60	72	He	0.097	2.67	68900.86	0.1	97.3	90	110	
Cu	63	72	He	0.097	2.02	181365.45	0.1	96.55	90	110	
Zn	66	72	He	0.094	1.61	32244.41	0.1	94.45	90	110	
As	75	125	He	0.093	6.05	29512.39	0.1	93.07	90	110	
Sr	88	103	He	0.102	1.62	125585.82	0.1	101.7	90	110	
Mo	95	103	He	0.097	1.66	79754.80	0.1	97.43	90	110	
Ag	107	103	He	0.097	0.68	237581.31	0.1	97.12	90	110	
Cd	111	125	He	0.095	5.34	34307.88	0.1	94.64	90	110	
Sn	118	103	He	0.100	1.27	78085.70	0.1	99.93	90	110	
Sb	121	103	He	0.103	0.25	117329.02	0.1	102.88	90	110	
Ba	137	103	He	0.099	3.39	37113.79	0.1	98.92	90	110	
Se	78	125	HEHe	0.095	3.53	2256.35	0.1	94.58	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	434069.62	0.91	417017.506666667	104.09	60	120	
Te (No He)	125	No Gas	8464.84	1.56	8200.24	103.23	60	120	
Bi (No He)	209	No Gas	244131.17	0.78	231432.306666667	105.49	60	120	
Sc	45	He	38365.87	0.78	36540.28	105	60	120	
Ge	72	He	28048.55	0.67	26120.5833333333	107.38	60	120	
Rh	103	He	408966.28	1.28	379600.853333333	107.74	60	120	
Te	125	He	2385.77	6.46	2104.61333333333	113.36	60	120	
Te (HE He)	125	HEHe	3888.22	1.91	3773.85	103.03	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	053_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:01:15
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.096	0.69	39674.29	0.1	96.46	90	110	
B	11	45	No Gas	0.097	2.57	24251.41	0.1	97.03	90	110	
Se	82	125	No Gas	0.100	3.34	4870.72	0.1	100.38	90	110	
Tl	205	209	No Gas	0.100	0.39	294811.38	0.1	100	90	110	
Pb	208	209	No Gas	0.101	1.34	214596.92	0.1	101.32	90	110	
Th	232	209	No Gas	2163.425	0.17	375618.26	0.1	2163425.25	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.101	1.21	334973.51	0.1	100.53	90	110	
Na	23	45	He	10.381	1.35	2530538.24	10	103.81	90	110	
Mg	24	45	He	10.216	3.06	1276010.16	10	102.16	90	110	
Al	27	45	He	9.997	0.67	562191.88	1	999.7	90	110	ICV Main CR1 Failed
K	39	45	He	10.385	0.25	1567650.71	10	103.85	90	110	
Ca	43	45	He	10.211	0.64	4250.63	10	102.11	90	110	
Ti	47	45	He	0.099	2.45	4673.75	0.1	99.48	90	110	
V	51	72	He	0.098	1.04	145908.04	0.1	97.67	90	110	
Cr	52	72	He	0.097	1.83	170831.44	0.1	97.24	90	110	
Mn	55	72	He	0.100	1.91	98164.50	0.1	99.96	90	110	
Fe	56	72	He	9.703	0.91	13845457.71	1	970.32	90	110	ICV Main CR1 Failed
Co	59	72	He	0.099	0.60	264051.51	0.1	99.18	90	110	
Ni	60	72	He	0.097	1.70	69821.63	0.1	96.57	90	110	
Cu	63	72	He	0.097	0.56	185780.66	0.1	96.86	90	110	
Zn	66	72	He	0.102	0.58	35306.64	0.1	101.5	90	110	
As	75	125	He	0.093	2.34	30624.02	0.1	93.48	90	110	
Sr	88	103	He	0.105	1.85	129406.79	0.1	104.97	90	110	
Mo	95	103	He	0.099	1.98	80551.54	0.1	98.57	90	110	
Ag	107	103	He	0.098	0.94	240506.33	0.1	98.47	90	110	
Cd	111	125	He	0.095	2.61	35408.55	0.1	94.58	90	110	
Sn	118	103	He	0.103	1.67	80113.49	0.1	102.67	90	110	
Sb	121	103	He	0.106	2.71	120590.94	0.1	105.93	90	110	
Ba	137	103	He	0.102	1.82	38220.07	0.1	102.02	90	110	
Se	78	125	HEHe	0.096	1.06	2332.35	0.1	96.09	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	444071.53	0.49	417017.506666667	106.49	60	120	
Te (No He)	125	No Gas	8312.53	0.65	8200.24	101.37	60	120	
Bi (No He)	209	No Gas	234912.80	0.24	231432.306666667	101.5	60	120	
Sc	45	He	39688.27	0.90	36540.28	108.62	60	120	
Ge	72	He	28636.32	0.63	26120.5833333333	109.63	60	120	
Rh	103	He	408340.80	1.82	379600.853333333	107.57	60	120	
Te	125	He	2459.12	2.24	2104.61333333333	116.84	60	120	
Te (HE He)	125	HEHe	3954.90	1.24	3773.85	104.8	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	054_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:28:30
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.093	1.43	37629.69	0.1	93.17	90	110	
B	11	45	No Gas	0.091	2.01	22478.70	0.1	91.44	90	110	
Se	82	125	No Gas	0.094	3.56	4572.98	0.1	93.89	90	110	
Tl	205	209	No Gas	0.098	0.42	291949.93	0.1	97.51	90	110	
Pb	208	209	No Gas	0.098	1.26	211131.75	0.1	98.16	90	110	
Th	232	209	No Gas	2097.557	0.38	369869.93	0.1	2097556.88	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.097	0.45	328939.40	0.1	97.2	90	110	
Na	23	45	He	9.893	2.67	2400106.32	10	98.93	90	110	
Mg	24	45	He	9.953	2.39	1234210.95	10	99.53	90	110	
Al	27	45	He	9.683	2.35	540499.52	1	968.34	90	110	ICV Main CR1 Failed
K	39	45	He	9.974	2.48	1497295.76	10	99.74	90	110	
Ca	43	45	He	9.835	4.34	4063.91	10	98.35	90	110	
Ti	47	45	He	0.096	1.35	4488.03	0.1	96.24	90	110	
V	51	72	He	0.096	0.43	141053.07	0.1	95.63	90	110	
Cr	52	72	He	0.095	1.01	164114.11	0.1	94.57	90	110	
Mn	55	72	He	0.098	0.92	94634.11	0.1	97.59	90	110	
Fe	56	72	He	9.475	0.38	13348620.63	1	947.52	90	110	ICV Main CR1 Failed
Co	59	72	He	0.096	1.86	253147.37	0.1	96.31	90	110	
Ni	60	72	He	0.094	0.77	67252.92	0.1	94.2	90	110	
Cu	63	72	He	0.095	1.23	179584.10	0.1	94.84	90	110	
Zn	66	72	He	0.097	1.15	33340.32	0.1	96.97	90	110	
As	75	125	He	0.094	2.84	29645.64	0.1	93.65	90	110	
Sr	88	103	He	0.103	1.99	124664.54	0.1	102.6	90	110	
Mo	95	103	He	0.096	0.93	77677.64	0.1	96.45	90	110	
Ag	107	103	He	0.097	0.74	232719.69	0.1	96.69	90	110	
Cd	111	125	He	0.094	3.07	34066.89	0.1	94.17	90	110	
Sn	118	103	He	0.100	1.85	76952.67	0.1	100.09	90	110	
Sb	121	103	He	0.102	0.97	114902.69	0.1	102.41	90	110	
Ba	137	103	He	0.101	1.11	37193.99	0.1	100.74	90	110	
Se	78	125	HEHe	0.098	1.36	2325.69	0.1	97.85	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	436082.61	1.71	417017.506666667	104.57	60	120	
Te (No He)	125	No Gas	8377.01	0.97	8200.24	102.16	60	120	
Bi (No He)	209	No Gas	238577.49	0.82	231432.306666667	103.09	60	120	
Sc	45	He	39401.94	1.87	36540.28	107.83	60	120	
Ge	72	He	28271.15	0.84	26120.5833333333	108.23	60	120	
Rh	103	He	402343.64	0.11	379600.853333333	105.99	60	120	
Te	125	He	2376.88	2.90	2104.61333333333	112.94	60	120	
Te (HE He)	125	HEHe	3873.21	1.25	3773.85	102.63	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	055_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:41:10
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	10.67	0.001	
B	11	45	No Gas	0.002	13.32	955.04	0.02	
Se	82	125	No Gas	-0.002	N/A	-348.83	0.001	
Tl	205	209	No Gas	0.000	N/A	33.33	0.001	
Pb	208	209	No Gas	0.000	N/A	83.33	0.001	
Th	232	209	No Gas	0.123	60.97	25.00	0.01	ICB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	23.33	0.01	
Na	23	45	He	0.042	27.65	140407.69	1	
Mg	24	45	He	0.015	9.36	2267.04	1	
Al	27	45	He	0.004	216.23	348.63	0.1	
K	39	45	He	-0.015	N/A	67563.48	1	
Ca	43	45	He	0.000	N/A	36.00	1	
Ti	47	45	He	0.000	N/A	6.33	0.01	
V	51	72	He	0.000	N/A	396.68	0.002	
Cr	52	72	He	0.000	N/A	2151.84	0.001	
Mn	55	72	He	0.000	N/A	173.33	0.002	
Fe	56	72	He	-0.015	N/A	9806.79	0.1	
Co	59	72	He	0.000	N/A	50.00	0.001	
Ni	60	72	He	0.000	125.98	386.68	0.001	
Cu	63	72	He	0.000	N/A	203.34	0.002	
Zn	66	72	He	-0.002	N/A	105.00	0.01	
As	75	125	He	0.000	339.59	47.17	0.001	
Sr	88	103	He	0.000	10.56	446.68	0.01	
Mo	95	103	He	0.000	46.11	14.45	0.002	
Ag	107	103	He	0.000	113.75	60.00	0.001	
Cd	111	125	He	0.000	28.41	2.33	0.001	
Sn	118	103	He	0.000	40.25	33.33	0.001	
Sb	121	103	He	0.000	93.82	26.67	0.001	
Ba	137	103	He	0.000	382.82	6.67	0.002	
Se	78	125	HEHe	0.000	355.30	3.00	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	421365.18	1.26	417017.506666667	101.04	60	120	
Te (No He)	125	No Gas	7963.45	2.15	8200.24	97.11	60	120	
Bi (No He)	209	No Gas	235967.33	0.35	231432.306666667	101.96	60	120	
Sc	45	He	37577.21	0.41	36540.28	102.84	60	120	
Ge	72	He	27250.33	1.05	26120.5833333333	104.33	60	120	
Rh	103	He	394625.88	1.05	379600.853333333	103.96	60	120	
Te	125	He	2137.95	1.54	2104.61333333333	101.58	60	120	
Te (HE He)	125	HEHe	3839.87	1.11	3773.85	101.75	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	056LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:43:39
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	422795.63	0.87	417017.506666667	101.39	60	120	
Te (No He)	125	No Gas	8209.13	1.15	8200.24	100.11	60	120	
Bi (No He)	209	No Gas	240455.90	0.64	231432.306666667	103.9	60	120	
Sc	45	He	38316.81	1.15	36540.28	104.86	60	120	
Ge	72	He	27454.06	1.74	26120.5833333333	105.11	60	120	
Rh	103	He	402377.62	0.65	379600.853333333	106	60	120	
Te	125	He	2245.75	2.39	2104.61333333333	106.71	60	120	
Te (HE He)	125	HEHe	3882.55	1.21	3773.85	102.88	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	057ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:45:54
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	98.312	3.84	22193451.33	100	80	120	
Mg	24	45	He	98.155	3.13	11936470.24	100	80	120	
Al	27	45	He	101.858	2.25	5578225.13	100	80	120	
K	39	45	He	101.008	2.76	14225338.12	100	80	120	
Ca	43	45	He	98.376	1.98	39582.03	100	80	120	
Ti	47	45	He	2.018	2.57	92187.14	2	80	120	
Fe	56	72	He	95.913	2.53	133494898.01	100	80	120	
Mo	95	103	He	2.161	2.85	1679984.80	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	430351.93	0.78	417017.506666667	103.2	60	120	
Te (No He)	125	No Gas	7985.68	1.50	8200.24	97.38	60	120	
Bi (No He)	209	No Gas	234040.72	0.33	231432.306666667	101.13	60	120	
Sc	45	He	38679.99	3.71	36540.28	105.86	60	120	
Ge	72	He	27997.33	2.34	26120.5833333333	107.18	60	120	
Rh	103	He	388517.43	0.66	379600.853333333	102.35	60	120	
Te	125	He	2346.88	1.40	2104.61333333333	111.51	60	120	
Te (HE He)	125	HEHe	3698.16	1.72	3773.85	97.99	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	058ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-05-31 21:50:54
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	0.44	7689.99	0.02	80	120	
B	11	45	No Gas	0.024	4.52	6082.95	0.02	80	120	
Se	82	125	No Gas	0.021	0.60	767.69	0.02	80	120	
Tl	205	209	No Gas	0.020	0.62	55473.55	0.02	80	120	
Pb	208	209	No Gas	0.021	1.91	40963.96	0.02	80	120	
U	238	209	No Gas	0.021	1.91	64249.73	0.02	80	120	
Na	23	45	He	97.189	2.05	21945838.00	100	80	120	
Mg	24	45	He	96.980	1.69	11795535.24	100	80	120	
Al	27	45	He	100.023	1.98	5477208.46	100	80	120	
K	39	45	He	100.096	2.16	14097529.37	100	80	120	
Ca	43	45	He	100.046	2.44	40235.81	100	80	120	
Ti	47	45	He	2.010	1.39	91805.24	2	80	120	
V	51	72	He	0.020	1.86	29339.71	0.02	80	120	
Cr	52	72	He	0.020	1.69	36878.47	0.02	80	120	
Mn	55	72	He	0.021	1.09	20221.08	0.02	80	120	
Fe	56	72	He	97.054	0.48	133778488.01	100	80	120	
Co	59	72	He	0.020	2.36	50739.51	0.02	80	120	
Ni	60	72	He	0.020	3.30	13990.33	0.02	80	120	
Cu	63	72	He	0.020	2.05	36760.44	0.02	80	120	
Zn	66	72	He	0.019	3.59	7201.85	0.02	80	120	
As	75	125	He	0.020	4.41	6086.96	0.02	80	120	
Sr	88	103	He	0.023	2.47	26682.10	0.02	80	120	
Mo	95	103	He	2.144	2.56	1640430.14	2	80	120	
Ag	107	103	He	0.020	1.22	45715.37	0.02	80	120	
Cd	111	125	He	0.020	4.54	7012.09	0.02	80	120	
Sn	118	103	He	0.022	2.24	15722.39	0.02	80	120	
Sb	121	103	He	0.023	1.74	24268.11	0.02	80	120	
Ba	137	103	He	0.022	3.06	7749.00	0.02	80	120	
Se	78	125	HEHe	0.021	1.08	473.18	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	429960.88	1.28	417017.506666667	103.1	60	120	
Te (No He)	125	No Gas	8039.03	2.58	8200.24	98.03	60	120	
Bi (No He)	209	No Gas	219401.22	0.83	231432.306666667	94.8	60	120	
Sc	45	He	38662.23	1.51	36540.28	105.81	60	120	
Ge	72	He	27721.25	1.47	26120.5833333333	106.13	60	120	
Rh	103	He	382207.54	1.09	379600.853333333	100.69	60	120	
Te	125	He	2319.10	4.07	2104.61333333333	110.19	60	120	
Te (HE He)	125	HEHe	3702.17	1.22	3773.85	98.1	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	122ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:39:46
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	95.821	1.11	18575932.22	100	80	120	
Mg	24	45	He	96.977	1.85	10126332.55	100	80	120	
Al	27	45	He	97.571	1.64	4587125.77	100	80	120	
K	39	45	He	96.362	0.87	11653122.33	100	80	120	
Ca	43	45	He	96.146	0.26	33198.20	100	80	120	
Ti	47	45	He	2.004	1.07	78600.42	2	80	120	
Fe	56	72	He	92.338	1.77	116492191.60	100	80	120	
Mo	95	103	He	2.083	2.41	1521534.63	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	384745.27	0.85	417017.506666667	92.26	60	120	
Te (No He)	125	No Gas	7661.05	1.31	8200.24	93.42	60	120	
Bi (No He)	209	No Gas	229810.34	0.80	231432.306666667	99.3	60	120	
Sc	45	He	33184.30	0.73	36540.28	90.82	60	120	
Ge	72	He	25372.49	0.90	26120.5833333333	97.14	60	120	
Rh	103	He	364838.11	0.49	379600.853333333	96.11	60	120	
Te	125	He	2021.27	6.04	2104.61333333333	96.04	60	120	
Te (HE He)	125	HEHe	3487.11	2.11	3773.85	92.4	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	123ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:41:59
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.018	3.31	6316.68	0.02	80	120	
B	11	45	No Gas	0.023	3.95	5109.24	0.02	80	120	
Se	82	125	No Gas	0.020	3.55	698.44	0.02	80	120	
Tl	205	209	No Gas	0.020	1.91	55607.37	0.02	80	120	
Pb	208	209	No Gas	0.021	2.08	42084.23	0.02	80	120	
U	238	209	No Gas	0.021	1.49	65851.06	0.02	80	120	
Na	23	45	He	93.370	1.33	17964939.31	100	80	120	
Mg	24	45	He	94.161	0.41	9756308.19	100	80	120	
Al	27	45	He	95.068	1.65	4434568.16	100	80	120	
K	39	45	He	94.473	0.75	11338535.66	100	80	120	
Ca	43	45	He	94.284	0.66	32306.92	100	80	120	
Ti	47	45	He	1.978	1.37	76975.13	2	80	120	
V	51	72	He	0.019	1.49	25093.39	0.02	80	120	
Cr	52	72	He	0.020	0.79	32310.91	0.02	80	120	
Mn	55	72	He	0.020	4.81	17147.05	0.02	80	120	
Fe	56	72	He	92.322	0.95	114087361.63	100	80	120	
Co	59	72	He	0.020	1.22	45719.28	0.02	80	120	
Ni	60	72	He	0.020	2.85	12779.17	0.02	80	120	
Cu	63	72	He	0.020	1.75	33526.05	0.02	80	120	
Zn	66	72	He	0.018	5.29	6149.70	0.02	80	120	
As	75	125	He	0.019	8.56	5355.17	0.02	80	120	
Sr	88	103	He	0.021	1.71	22875.43	0.02	80	120	
Mo	95	103	He	2.022	0.91	1458393.90	2	80	120	
Ag	107	103	He	0.020	2.13	42130.91	0.02	80	120	
Cd	111	125	He	0.020	5.45	6239.73	0.02	80	120	
Sn	118	103	He	0.020	2.79	13927.16	0.02	80	120	
Sb	121	103	He	0.021	0.32	21149.70	0.02	80	120	
Ba	137	103	He	0.021	4.40	6785.13	0.02	80	120	
Se	78	125	HEHe	0.020	3.44	416.09	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	372671.18	0.51	417017.506666667	89.37	60	120	
Te (No He)	125	No Gas	7439.79	2.20	8200.24	90.73	60	120	
Bi (No He)	209	No Gas	224754.40	0.60	231432.306666667	97.11	60	120	
Sc	45	He	32930.47	0.81	36540.28	90.12	60	120	
Ge	72	He	24851.53	0.54	26120.5833333333	95.14	60	120	
Rh	103	He	360399.17	2.03	379600.853333333	94.94	60	120	
Te	125	He	2083.50	6.87	2104.61333333333	99	60	120	
Te (HE He)	125	HEHe	3406.09	1.19	3773.85	90.26	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	124_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:44:12
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.093	1.94	32380.87	0.1	93.12	90	110	
B	11	45	No Gas	0.087	4.56	18453.15	0.1	87.12	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.102	3.71	4592.21	0.1	101.9	90	110	
Tl	205	209	No Gas	0.102	2.33	295631.92	0.1	102.09	90	110	
Pb	208	209	No Gas	0.102	1.55	211984.79	0.1	101.89	90	110	
Th	232	209	No Gas	0.573	49.68	101.67	0.1	573.49	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.102	1.74	334160.50	0.1	102.09	90	110	
Na	23	45	He	10.042	0.79	2010683.62	10	100.42	90	110	
Mg	24	45	He	9.987	1.11	1022780.12	10	99.87	90	110	
Al	27	45	He	0.985	1.25	45531.67	1	98.48	90	110	
K	39	45	He	10.054	1.41	1246270.30	10	100.54	90	110	
Ca	43	45	He	10.180	4.57	3474.42	10	101.8	90	110	
Ti	47	45	He	0.103	1.63	3978.21	0.1	103.3	90	110	
V	51	72	He	0.099	1.69	126539.56	0.1	99.11	90	110	
Cr	52	72	He	0.099	1.06	148901.10	0.1	99.2	90	110	
Mn	55	72	He	0.100	2.64	84176.90	0.1	100.3	90	110	
Fe	56	72	He	0.978	1.87	1217590.58	1	97.82	90	110	
Co	59	72	He	0.102	1.48	231007.16	0.1	101.52	90	110	
Ni	60	72	He	0.103	1.74	63432.55	0.1	102.67	90	110	
Cu	63	72	He	0.102	1.34	166370.73	0.1	101.5	90	110	
Zn	66	72	He	0.100	0.84	29712.38	0.1	99.9	90	110	
As	75	125	He	0.099	1.91	27505.24	0.1	98.89	90	110	
Sr	88	103	He	0.101	0.98	113525.28	0.1	100.9	90	110	
Mo	95	103	He	0.101	0.65	75236.90	0.1	100.88	90	110	
Ag	107	103	He	0.102	1.02	226906.21	0.1	101.81	90	110	
Cd	111	125	He	0.102	1.40	32399.62	0.1	101.92	90	110	
Sn	118	103	He	0.100	2.26	71118.32	0.1	99.89	90	110	
Sb	121	103	He	0.102	0.93	106103.13	0.1	102.13	90	110	
Ba	137	103	He	0.099	1.42	33855.46	0.1	99.02	90	110	
Se	78	125	HEHe	0.103	0.47	2204.50	0.1	103.04	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	375461.93	1.21	417017.506666667	90.04	60	120	
Te (No He)	125	No Gas	7716.62	1.57	8200.24	94.1	60	120	
Bi (No He)	209	No Gas	230796.65	1.49	231432.306666667	99.73	60	120	
Sc	45	He	32537.39	0.28	36540.28	89.05	60	120	
Ge	72	He	24475.29	0.95	26120.5833333333	93.7	60	120	
Rh	103	He	372579.72	0.59	379600.853333333	98.15	60	120	
Te	125	He	2087.95	2.14	2104.61333333333	99.21	60	120	
Te (HE He)	125	HEHe	3486.11	2.39	3773.85	92.38	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	125_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:46:44
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	13.33	0.001	
B	11	45	No Gas	0.005	4.94	1358.41	0.02	
Se	82	125	No Gas	-0.001	N/A	-279.32	0.001	
Tl	205	209	No Gas	0.000	65.69	213.34	0.001	
Pb	208	209	No Gas	0.000	N/A	93.33	0.001	
Th	232	209	No Gas	0.029	57.40	8.33	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	50.00	0.01	
Na	23	45	He	-0.084	N/A	96199.08	1	
Mg	24	45	He	0.003	41.94	713.37	1	
Al	27	45	He	0.001	77.42	160.00	0.1	
K	39	45	He	-0.061	N/A	52314.77	1	
Ca	43	45	He	-0.032	N/A	20.00	1	
Ti	47	45	He	0.000	N/A	5.00	0.01	
V	51	72	He	0.000	N/A	161.67	0.002	
Cr	52	72	He	0.000	N/A	2303.54	0.001	
Mn	55	72	He	0.000	N/A	140.00	0.002	
Fe	56	72	He	-0.011	N/A	13589.90	0.1	
Co	59	72	He	0.000	N/A	76.67	0.001	
Ni	60	72	He	0.000	66.40	383.34	0.001	
Cu	63	72	He	0.000	N/A	230.01	0.002	
Zn	66	72	He	-0.002	N/A	120.00	0.01	
As	75	125	He	0.000	N/A	42.00	0.001	
Sr	88	103	He	0.000	N/A	86.67	0.01	
Mo	95	103	He	0.000	14.72	63.33	0.002	
Ag	107	103	He	0.000	25.40	225.56	0.001	
Cd	111	125	He	0.000	55.38	2.00	0.001	
Sn	118	103	He	0.000	61.69	60.00	0.001	
Sb	121	103	He	0.000	58.40	166.67	0.001	
Ba	137	103	He	0.000	0.77	20.00	0.002	
Se	78	125	HEHe	0.000	N/A	2.17	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	364877.49	1.10	417017.506666667	87.5	60	120	
Te (No He)	125	No Gas	7699.96	0.37	8200.24	93.9	60	120	
Bi (No He)	209	No Gas	229868.11	1.10	231432.306666667	99.32	60	120	
Sc	45	He	32020.62	1.02	36540.28	87.63	60	120	
Ge	72	He	24320.61	2.06	26120.5833333333	93.11	60	120	
Rh	103	He	371549.11	0.64	379600.853333333	97.88	60	120	
Te	125	He	2052.39	4.99	2104.61333333333	97.52	60	120	
Te (HE He)	125	HEHe	3390.75	4.93	3773.85	89.85	60	120	

Sample Report

Sample Name	BLANK WG791805
File Name	126SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:49:00
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	11.33	5	
B	11	45	No Gas	0.003	7.70	970.04	5	
Se	82	125	No Gas	-0.003	N/A	-340.71	5	
Tl	205	209	No Gas	0.000	115.08	100.00	5	
Pb	208	209	No Gas	0.000	21.40	210.01	5	
Th	232	209	No Gas	0.122	40.45	21.67	5	
U	238	209	No Gas	0.000	N/A	26.67	5	
Na	23	45	He	-0.128	N/A	85419.78	90	
Mg	24	45	He	0.006	39.19	900.06	90	
Al	27	45	He	0.003	64.60	245.00	90	
K	39	45	He	-0.055	N/A	50601.48	90	
Ca	43	45	He	0.006	187.20	30.67	90	
Ti	47	45	He	0.000	210.51	7.00	5	
V	51	72	He	0.000	77.78	435.01	5	
Cr	52	72	He	0.000	54.51	2515.24	5	
Mn	55	72	He	0.000	N/A	226.67	5	
Fe	56	72	He	-0.010	N/A	15732.13	90	
Co	59	72	He	0.000	343.37	96.67	5	
Ni	60	72	He	0.000	142.15	333.34	5	
Cu	63	72	He	0.001	6.48	1480.10	5	
Zn	66	72	He	-0.002	N/A	215.00	5	
As	75	125	He	0.000	28.75	64.83	5	
Sr	88	103	He	0.000	N/A	80.00	5	
Mo	95	103	He	0.000	22.53	51.11	5	
Ag	107	103	He	0.000	53.56	95.56	1	
Cd	111	125	He	0.000	111.56	1.33	5	
Sn	118	103	He	0.000	40.91	126.67	2	
Sb	121	103	He	0.000	30.43	96.67	1	
Ba	137	103	He	0.000	56.92	83.33	2	
Se	78	125	HEHe	0.000	122.83	2.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343375.72	0.67	417017.506666667	82.34	60	120	
Te (No He)	125	No Gas	7310.85	0.57	8200.24	89.15	60	120	
Bi (No He)	209	No Gas	224928.36	1.93	231432.306666667	97.19	60	120	
Sc	45	He	30256.91	2.89	36540.28	82.8	60	120	
Ge	72	He	22867.12	1.43	26120.5833333333	87.54	60	120	
Rh	103	He	352422.21	0.76	379600.853333333	92.84	60	120	
Te	125	He	1839.02	5.64	2104.61333333333	87.38	60	120	
Te (HE He)	125	HEHe	3321.07	2.65	3773.85	88	60	120	

Sample Report

Sample Name	LCS WG791805
File Name	127SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:51:16
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.046	1.21	12922.92	5	
B	11	45	No Gas	0.046	1.14	8032.22	5	
Se	82	125	No Gas	0.045	5.68	1583.12	5	
Tl	205	209	No Gas	0.050	1.15	121453.12	5	
Pb	208	209	No Gas	0.050	1.89	87224.69	5	
Th	232	209	No Gas	1079.597	0.45	155010.89	5	>LDR
U	238	209	No Gas	0.051	1.17	139463.91	5	
Na	23	45	He	4.649	0.89	841849.86	90	
Mg	24	45	He	4.710	0.70	404535.67	90	
Al	27	45	He	4.641	0.93	179403.14	90	
K	39	45	He	4.735	0.24	524268.51	90	
Ca	43	45	He	4.871	3.93	1409.41	90	
Ti	47	45	He	0.050	3.50	1604.75	5	
V	51	72	He	0.047	0.23	51295.17	5	
Cr	52	72	He	0.047	1.07	61831.00	5	
Mn	55	72	He	0.049	2.80	35072.85	5	
Fe	56	72	He	4.738	1.90	4957714.82	90	
Co	59	72	He	0.049	0.96	95399.84	5	
Ni	60	72	He	0.049	2.72	25973.64	5	
Cu	63	72	He	0.050	1.95	70602.31	5	
Zn	66	72	He	0.046	1.83	12123.55	5	
As	75	125	He	0.048	4.84	11059.76	5	
Sr	88	103	He	0.048	2.05	45934.86	5	
Mo	95	103	He	0.049	1.02	30702.22	5	
Ag	107	103	He	0.049	0.71	92371.93	1	
Cd	111	125	He	0.050	2.89	13154.84	5	
Sn	118	103	He	0.047	2.16	28395.94	2	
Sb	121	103	He	0.051	1.39	44521.72	1	
Ba	137	103	He	0.048	1.64	13737.10	2	
Se	78	125	HEHe	0.048	3.96	881.61	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	338173.78	1.34	417017.506666667	81.09	60	120	
Te (No He)	125	No Gas	7213.01	1.18	8200.24	87.96	60	120	
Bi (No He)	209	No Gas	215847.65	0.60	231432.306666667	93.27	60	120	
Sc	45	He	30299.15	0.89	36540.28	82.92	60	120	
Ge	72	He	23266.69	0.78	26120.5833333333	89.07	60	120	
Rh	103	He	348210.83	0.88	379600.853333333	91.73	60	120	
Te	125	He	1915.70	4.54	2104.61333333333	91.02	60	120	
Te (HE He)	125	HEHe	3347.75	1.93	3773.85	88.71	60	120	

Sample Report

Sample Name	LCSD WG791805
File Name	128SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:53:31
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.047	0.84	13215.84	5	
B	11	45	No Gas	0.048	3.85	8514.17	5	
Se	82	125	No Gas	0.047	6.64	1652.02	5	
Tl	205	209	No Gas	0.050	3.57	123909.43	5	
Pb	208	209	No Gas	0.051	1.52	89704.56	5	
Th	232	209	No Gas	1103.826	1.19	159715.67	5	>LDR
U	238	209	No Gas	0.051	2.32	141229.23	5	
Na	23	45	He	4.676	2.25	850864.03	90	
Mg	24	45	He	4.885	0.97	421807.76	90	
Al	27	45	He	4.750	1.92	184638.17	90	
K	39	45	He	4.771	0.74	530710.86	90	
Ca	43	45	He	5.264	4.07	1529.42	90	
Ti	47	45	He	0.051	1.92	1670.43	5	
V	51	72	He	0.050	1.35	53141.74	5	
Cr	52	72	He	0.049	2.34	62976.00	5	
Mn	55	72	He	0.050	0.36	34969.16	5	
Fe	56	72	He	4.880	1.84	4989891.90	90	
Co	59	72	He	0.051	3.12	97866.24	5	
Ni	60	72	He	0.052	2.70	26795.10	5	
Cu	63	72	He	0.053	3.16	72183.63	5	
Zn	66	72	He	0.048	0.39	12483.82	5	
As	75	125	He	0.050	7.54	11288.09	5	
Sr	88	103	He	0.051	1.85	47954.58	5	
Mo	95	103	He	0.049	0.31	31066.30	5	
Ag	107	103	He	0.051	1.73	95812.77	1	
Cd	111	125	He	0.052	8.22	13536.21	5	
Sn	118	103	He	0.048	1.46	28516.42	2	
Sb	121	103	He	0.052	0.98	45879.64	1	
Ba	137	103	He	0.051	2.55	14564.58	2	
Se	78	125	HEHe	0.051	1.68	923.61	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	339503.40	1.32	417017.506666667	81.41	60	120	
Te (No He)	125	No Gas	7185.23	4.72	8200.24	87.62	60	120	
Bi (No He)	209	No Gas	217542.42	1.43	231432.306666667	94	60	120	
Sc	45	He	30469.52	0.98	36540.28	83.39	60	120	
Ge	72	He	22741.39	1.58	26120.5833333333	87.06	60	120	
Rh	103	He	348810.37	1.32	379600.853333333	91.89	60	120	
Te	125	He	1892.36	7.36	2104.61333333333	89.92	60	120	
Te (HE He)	125	HEHe	3297.06	0.77	3773.85	87.37	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	129SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:55:46
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	168.11	20.67	5	
B	11	45	No Gas	0.293	1.40	46650.99	5	
Se	82	125	No Gas	0.008	56.84	63.04	5	
Tl	205	209	No Gas	0.000	28.75	326.68	5	
Pb	208	209	No Gas	0.000	26.02	300.01	5	
Th	232	209	No Gas	2.090	20.14	240.00	5	
U	238	209	No Gas	0.025	1.69	54257.38	5	
Na	23	45	He	4693.149	1.59	740872815.63	90	>LDR
Mg	24	45	He	923.058	1.28	78961448.82	90	>LDR
Al	27	45	He	0.022	8.98	991.71	90	
K	39	45	He	10.819	0.78	1122269.98	90	
Ca	43	45	He	1047.684	0.74	296030.66	90	>LDR
Ti	47	45	He	0.001	89.56	29.33	5	
V	51	72	He	0.009	2.73	10465.51	5	
Cr	52	72	He	0.000	100.90	2753.62	5	
Mn	55	72	He	0.601	2.52	448966.94	5	
Fe	56	72	He	0.142	2.55	181029.91	90	
Co	59	72	He	0.004	4.01	7825.58	5	
Ni	60	72	He	0.007	8.52	4010.63	5	
Cu	63	72	He	0.001	12.24	2050.18	5	
Zn	66	72	He	0.004	4.35	1886.81	5	
As	75	125	He	0.003	7.22	735.69	5	
Sr	88	103	He	22.610	0.78	18726155.56	5	>LDR
Mo	95	103	He	0.017	1.04	9127.44	5	
Ag	107	103	He	0.000	4.53	266.67	1	
Cd	111	125	He	0.000	10.81	42.33	5	
Sn	118	103	He	0.000	22.31	273.34	2	
Sb	121	103	He	0.000	23.16	323.34	1	
Ba	137	103	He	0.037	1.24	9296.63	2	
Se	78	125	HEHe	0.011	6.29	170.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	318960.49	1.52	417017.506666667	76.49	60	120	
Te (No He)	125	No Gas	5638.95	3.79	8200.24	68.77	60	120	
Bi (No He)	209	No Gas	170843.14	0.39	231432.306666667	73.82	60	120	
Sc	45	He	30203.46	4.23	36540.28	82.66	60	120	
Ge	72	He	24286.10	0.85	26120.5833333333	92.98	60	120	
Rh	103	He	304956.03	1.87	379600.853333333	80.34	60	120	
Te	125	He	1742.34	7.85	2104.61333333333	82.79	60	120	
Te (HE He)	125	HEHe	2867.97	0.84	3773.85	76	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	130SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 01:58:03
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	13.33	5	
B	11	45	No Gas	0.337	0.38	13262.62	5	
Se	82	125	No Gas	-0.028	N/A	-424.56	5	
Tl	205	209	No Gas	0.000	125.64	106.67	5	
Pb	208	209	No Gas	0.001	12.48	560.02	5	
Th	232	209	No Gas	0.988	41.27	28.33	5	
U	238	209	No Gas	0.025	2.81	12472.92	5	
Na	23	45	He	5063.362	2.45	175777177.38	90	>LDR
Mg	24	45	He	993.091	2.23	18671665.14	90	>LDR
Al	27	45	He	0.046	7.56	533.35	90	
K	39	45	He	11.414	0.73	308861.51	90	
Ca	43	45	He	1103.150	1.18	68563.61	90	>LDR
Ti	47	45	He	0.001	30.05	13.00	5	
V	51	72	He	0.010	4.44	2626.93	5	
Cr	52	72	He	0.000	N/A	2526.91	5	
Mn	55	72	He	0.694	1.35	103356.31	5	
Fe	56	72	He	0.133	0.73	55797.58	90	
Co	59	72	He	0.004	4.84	1866.81	5	
Ni	60	72	He	0.029	3.96	3517.14	5	
Cu	63	72	He	0.004	9.59	1470.10	5	
Zn	66	72	He	0.019	3.69	1775.13	5	
As	75	125	He	0.004	4.42	217.50	5	
Sr	88	103	He	24.047	1.30	4385113.16	5	
Mo	95	103	He	0.017	6.78	2083.50	5	
Ag	107	103	He	0.000	59.73	65.56	1	
Cd	111	125	He	0.000	21.25	14.00	5	
Sn	118	103	He	0.001	29.14	150.00	2	
Sb	121	103	He	0.001	22.21	100.00	1	
Ba	137	103	He	0.040	18.85	2246.89	2	
Se	78	125	HEHe	0.010	9.10	37.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	383691.90	0.37	417017.506666667	92.01	60	120	
Te (No He)	125	No Gas	6797.25	2.69	8200.24	82.89	60	120	
Bi (No He)	209	No Gas	194097.53	0.95	231432.306666667	83.87	60	120	
Sc	45	He	33204.34	1.24	36540.28	90.87	60	120	
Ge	72	He	24141.44	1.00	26120.5833333333	92.42	60	120	
Rh	103	He	335717.26	0.70	379600.853333333	88.44	60	120	
Te	125	He	1999.05	0.77	2104.61333333333	94.98	60	120	
Te (HE He)	125	HEHe	3172.70	2.88	3773.85	84.07	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	131SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:00:34
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.043	0.87	11878.05	5	
B	11	45	No Gas	0.341	0.73	56233.64	5	
Se	82	125	No Gas	0.051	6.52	1408.09	5	
Tl	205	209	No Gas	0.051	0.91	92120.66	5	
Pb	208	209	No Gas	0.051	1.14	65288.75	5	
Th	232	209	No Gas	1175.162	1.33	124168.07	5	>LDR
U	238	209	No Gas	0.079	1.38	159599.97	5	
Na	23	45	He	4616.471	4.59	750536682.15	90	>LDR
Mg	24	45	He	918.917	3.60	80946270.46	90	>LDR
Al	27	45	He	4.970	3.64	197267.09	90	
K	39	45	He	16.192	3.63	1701049.40	90	
Ca	43	45	He	1047.780	2.93	305009.77	90	>LDR
Ti	47	45	He	0.049	6.45	1637.10	5	
V	51	72	He	0.056	0.55	61469.43	5	
Cr	52	72	He	0.045	1.75	59179.96	5	
Mn	55	72	He	0.658	1.24	470764.31	5	
Fe	56	72	He	4.449	1.08	4654039.62	90	
Co	59	72	He	0.048	2.14	93309.79	5	
Ni	60	72	He	0.050	3.12	26504.64	5	
Cu	63	72	He	0.044	0.53	62224.47	5	
Zn	66	72	He	0.044	3.80	11744.87	5	
As	75	125	He	0.060	3.52	11423.04	5	
Sr	88	103	He	23.157	0.83	18262610.56	5	>LDR
Mo	95	103	He	0.071	0.87	36935.90	5	
Ag	107	103	He	0.048	0.54	75797.91	1	
Cd	111	125	He	0.050	2.13	10901.91	5	
Sn	118	103	He	0.052	1.87	26088.27	2	
Sb	121	103	He	0.054	0.28	39610.13	1	
Ba	137	103	He	0.090	1.62	21503.77	2	
Se	78	125	HEHe	0.067	1.57	1000.62	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	330513.21	1.06	417017.506666667	79.26	60	120	
Te (No He)	125	No Gas	5587.82	4.41	8200.24	68.14	60	120	
Bi (No He)	209	No Gas	158847.94	0.56	231432.306666667	68.64	60	120	
Sc	45	He	31121.98	2.50	36540.28	85.17	60	120	
Ge	72	He	23252.19	2.04	26120.5833333333	89.02	60	120	
Rh	103	He	290377.47	1.00	379600.853333333	76.5	60	120	
Te	125	He	1577.88	2.34	2104.61333333333	74.97	60	120	
Te (HE He)	125	HEHe	2695.27	2.20	3773.85	71.42	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	132SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:02:50
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.043	1.10	12532.58	5	
B	11	45	No Gas	0.350	0.27	61142.86	5	
Se	82	125	No Gas	0.052	11.82	1429.22	5	
Tl	205	209	No Gas	0.052	0.65	93658.04	5	
Pb	208	209	No Gas	0.051	2.47	66451.49	5	
Th	232	209	No Gas	1180.869	0.88	125257.74	5	>LDR
U	238	209	No Gas	0.080	1.02	162496.41	5	
Na	23	45	He	4648.664	1.63	779812921.71	90	>LDR
Mg	24	45	He	926.996	2.16	84254687.08	90	>LDR
Al	27	45	He	4.940	1.03	202321.94	90	
K	39	45	He	16.427	1.93	1779843.51	90	
Ca	43	45	He	1056.617	0.64	317355.50	90	>LDR
Ti	47	45	He	0.050	0.61	1696.77	5	
V	51	72	He	0.055	2.19	62972.45	5	
Cr	52	72	He	0.044	3.89	60644.32	5	
Mn	55	72	He	0.654	2.73	486154.51	5	
Fe	56	72	He	4.441	3.38	4826694.20	90	
Co	59	72	He	0.048	4.84	96715.74	5	
Ni	60	72	He	0.050	5.88	27596.75	5	
Cu	63	72	He	0.044	2.68	64216.24	5	
Zn	66	72	He	0.044	3.82	12101.85	5	
As	75	125	He	0.057	5.81	11643.04	5	
Sr	88	103	He	23.449	1.72	18995689.30	5	>LDR
Mo	95	103	He	0.070	1.98	37603.13	5	
Ag	107	103	He	0.047	1.09	76172.20	1	
Cd	111	125	He	0.047	5.97	11036.34	5	
Sn	118	103	He	0.051	2.39	26351.94	2	
Sb	121	103	He	0.055	1.51	41074.46	1	
Ba	137	103	He	0.091	2.69	22418.66	2	
Se	78	125	HEHe	0.064	2.94	955.53	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	350159.58	0.89	417017.506666667	83.97	60	120	
Te (No He)	125	No Gas	5626.73	4.55	8200.24	68.62	60	120	
Bi (No He)	209	No Gas	159471.27	1.99	231432.306666667	68.91	60	120	
Sc	45	He	32101.91	0.94	36540.28	87.85	60	120	
Ge	72	He	24159.23	0.46	26120.5833333333	92.49	60	120	
Rh	103	He	298321.17	1.36	379600.853333333	78.59	60	120	
Te	125	He	1704.56	7.74	2104.61333333333	80.99	60	120	
Te (HE He)	125	HEHe	2695.60	1.53	3773.85	71.43	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	133_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:05:05
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.095	0.98	35366.92	0.1	94.56	90	110	
B	11	45	No Gas	0.097	3.54	22063.04	0.1	97.08	90	110	
Se	82	125	No Gas	0.093	7.08	4161.28	0.1	93.36	90	110	
Tl	205	209	No Gas	0.104	1.48	270440.74	0.1	103.56	90	110	
Pb	208	209	No Gas	0.103	0.55	193880.25	0.1	103.34	90	110	
Th	232	209	No Gas	0.923	18.54	145.00	0.1	922.86	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.102	0.76	301001.37	0.1	101.97	90	110	
Na	23	45	He	11.642	1.37	2580623.97	10	116.42	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.260	3.06	1172496.57	10	102.6	90	110	
Al	27	45	He	1.002	0.87	51698.45	1	100.23	90	110	
K	39	45	He	10.187	1.77	1407937.17	10	101.87	90	110	
Ca	43	45	He	10.087	2.67	3841.18	10	100.87	90	110	
Ti	47	45	He	0.102	0.70	4369.66	0.1	101.69	90	110	
V	51	72	He	0.103	2.42	137565.02	0.1	102.5	90	110	
Cr	52	72	He	0.101	1.49	159124.03	0.1	100.86	90	110	
Mn	55	72	He	0.102	1.48	90042.37	0.1	102.04	90	110	
Fe	56	72	He	0.987	1.05	1292074.75	1	98.75	90	110	
Co	59	72	He	0.102	1.05	244282.21	0.1	102.11	90	110	
Ni	60	72	He	0.100	1.07	64892.61	0.1	99.89	90	110	
Cu	63	72	He	0.102	1.72	175434.08	0.1	101.81	90	110	
Zn	66	72	He	0.100	0.44	31148.73	0.1	99.6	90	110	
As	75	125	He	0.103	4.03	28543.59	0.1	102.64	90	110	
Sr	88	103	He	0.107	0.96	120636.81	0.1	106.77	90	110	
Mo	95	103	He	0.101	0.49	75450.18	0.1	100.74	90	110	
Ag	107	103	He	0.101	0.67	225153.28	0.1	100.6	90	110	
Cd	111	125	He	0.102	4.22	32318.14	0.1	101.68	90	110	
Sn	118	103	He	0.100	1.94	71741.38	0.1	100.35	90	110	
Sb	121	103	He	0.100	0.19	104578.56	0.1	100.23	90	110	
Ba	137	103	He	0.099	2.90	34012.42	0.1	99.09	90	110	
Se	78	125	HEHe	0.102	1.97	2233.01	0.1	102.01	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	403783.86	0.39	417017.506666667	96.83	60	120	
Te (No He)	125	No Gas	7668.82	0.80	8200.24	93.52	60	120	
Bi (No He)	209	No Gas	208100.64	0.17	231432.306666667	89.92	60	120	
Sc	45	He	36302.77	0.46	36540.28	99.35	60	120	
Ge	72	He	25733.10	1.06	26120.5833333333	98.52	60	120	
Rh	103	He	374157.92	1.18	379600.853333333	98.57	60	120	
Te	125	He	2089.06	3.51	2104.61333333333	99.26	60	120	
Te (HE He)	125	HEHe	3568.13	2.38	3773.85	94.55	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	134_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:07:19
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	15.33	0.001	
B	11	45	No Gas	0.008	9.91	2213.52	0.02	
Se	82	125	No Gas	-0.005	N/A	-466.55	0.001	
Tl	205	209	No Gas	0.000	21.83	280.01	0.001	
Pb	208	209	No Gas	0.000	43.91	203.34	0.001	
Th	232	209	No Gas	0.180	56.37	31.67	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	56.67	0.01	
Na	23	45	He	1.247	3.08	369362.18	1	CCB Main CR1 Failed
Mg	24	45	He	0.041	4.04	4914.37	1	
Al	27	45	He	0.000	N/A	136.67	0.1	
K	39	45	He	-0.024	N/A	60780.29	1	
Ca	43	45	He	0.001	4845.40	33.33	1	
Ti	47	45	He	0.000	291.90	8.33	0.01	
V	51	72	He	0.000	99.11	460.01	0.002	
Cr	52	72	He	0.000	N/A	2500.24	0.001	
Mn	55	72	He	0.000	N/A	243.34	0.002	
Fe	56	72	He	-0.012	N/A	13119.42	0.1	
Co	59	72	He	0.000	N/A	93.33	0.001	
Ni	60	72	He	0.000	N/A	303.34	0.001	
Cu	63	72	He	0.000	N/A	203.34	0.002	
Zn	66	72	He	-0.002	N/A	153.33	0.01	
As	75	125	He	0.000	20.68	60.33	0.001	
Sr	88	103	He	0.001	2.96	910.05	0.01	
Mo	95	103	He	0.000	22.39	35.55	0.002	
Ag	107	103	He	0.000	25.57	292.23	0.001	
Cd	111	125	He	0.000	58.03	5.00	0.001	
Sn	118	103	He	0.000	30.52	36.67	0.001	
Sb	121	103	He	0.000	26.18	210.01	0.001	
Ba	137	103	He	0.000	57.21	13.33	0.002	
Se	78	125	HEHe	0.000	65.16	3.25	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	384428.95	1.14	417017.506666667	92.19	60	120	
Te (No He)	125	No Gas	7530.98	4.54	8200.24	91.84	60	120	
Bi (No He)	209	No Gas	215062.63	1.06	231432.306666667	92.93	60	120	
Sc	45	He	34413.87	0.33	36540.28	94.18	60	120	
Ge	72	He	24994.01	2.26	26120.5833333333	95.69	60	120	
Rh	103	He	370283.50	0.73	379600.853333333	97.55	60	120	
Te	125	He	2075.73	4.59	2104.61333333333	98.63	60	120	
Te (HE He)	125	HEHe	3650.15	2.47	3773.85	96.72	60	120	

Sample Report

Sample Name	L766725-01 WG791805
File Name	135SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:09:33
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	13.33	5	
B	11	45	No Gas	0.075	2.96	14175.12	5	
Se	82	125	No Gas	0.000	N/A	-227.30	5	
Tl	205	209	No Gas	0.000	47.93	133.33	5	
Pb	208	209	No Gas	0.000	19.68	280.01	5	
Th	232	209	No Gas	0.299	43.91	45.00	5	
U	238	209	No Gas	0.003	4.03	7318.89	5	
Na	23	45	He	27.461	0.49	4949521.49	90	
Mg	24	45	He	16.160	0.89	1541399.66	90	
Al	27	45	He	0.013	8.99	681.69	90	
K	39	45	He	2.304	0.79	315577.44	90	
Ca	43	45	He	73.624	1.50	23225.78	90	
Ti	47	45	He	0.000	110.85	12.00	5	
V	51	72	He	0.005	3.40	5986.27	5	
Cr	52	72	He	0.001	23.94	3707.17	5	
Mn	55	72	He	0.000	55.12	336.68	5	
Fe	56	72	He	-0.012	N/A	15184.81	90	
Co	59	72	He	0.000	124.95	136.67	5	
Ni	60	72	He	0.000	N/A	260.01	5	
Cu	63	72	He	0.000	290.61	470.02	5	
Zn	66	72	He	-0.002	N/A	338.34	5	
As	75	125	He	0.001	15.26	197.17	5	
Sr	88	103	He	0.716	1.37	700155.74	5	
Mo	95	103	He	0.002	9.27	1282.29	5	
Ag	107	103	He	0.000	18.83	127.78	1	
Cd	111	125	He	0.000	82.63	2.67	5	
Sn	118	103	He	0.000	26.62	213.34	2	
Sb	121	103	He	0.000	22.06	186.67	1	
Ba	137	103	He	0.149	1.45	44248.28	2	
Se	78	125	HEHe	0.006	4.50	114.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	369287.63	1.99	417017.506666667	88.55	60	120	
Te (No He)	125	No Gas	7141.87	1.20	8200.24	87.09	60	120	
Bi (No He)	209	No Gas	210831.70	1.20	231432.306666667	91.1	60	120	
Sc	45	He	33675.42	1.33	36540.28	92.16	60	120	
Ge	72	He	25246.67	2.10	26120.5833333333	96.65	60	120	
Rh	103	He	359825.63	1.80	379600.853333333	94.79	60	120	
Te	125	He	2042.39	7.24	2104.61333333333	97.04	60	120	
Te (HE He)	125	HEHe	3479.11	1.39	3773.85	92.19	60	120	

Sample Report

Sample Name	L766725-02 WG791805
File Name	136SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:12:04
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	45.71	27.33	5	
B	11	45	No Gas	0.070	3.70	13291.00	5	
Se	82	125	No Gas	0.002	114.12	-165.31	5	
Tl	205	209	No Gas	0.000	1184.55	73.33	5	
Pb	208	209	No Gas	0.000	5.94	686.70	5	
Th	232	209	No Gas	5.548	4.95	825.03	5	
U	238	209	No Gas	0.003	4.73	8412.90	5	
Na	23	45	He	23.063	0.66	4172959.00	90	
Mg	24	45	He	14.896	0.17	1419913.47	90	
Al	27	45	He	0.132	2.75	5791.22	90	
K	39	45	He	2.507	1.66	337608.64	90	
Ca	43	45	He	73.475	3.09	23162.31	90	
Ti	47	45	He	0.003	56.36	128.34	5	
V	51	72	He	0.005	1.93	5946.25	5	
Cr	52	72	He	0.001	16.28	3742.19	5	
Mn	55	72	He	0.008	0.98	6301.47	5	
Fe	56	72	He	0.131	5.47	180541.42	90	
Co	59	72	He	0.000	19.23	306.68	5	
Ni	60	72	He	0.000	58.19	533.35	5	
Cu	63	72	He	0.000	21.49	1130.07	5	
Zn	66	72	He	0.004	5.62	1976.83	5	
As	75	125	He	0.001	2.45	249.50	5	
Sr	88	103	He	0.711	1.18	727543.64	5	
Mo	95	103	He	0.002	4.02	1222.28	5	
Ag	107	103	He	0.000	77.19	48.89	1	
Cd	111	125	He	0.000	73.06	4.00	5	
Sn	118	103	He	0.000	31.40	160.00	2	
Sb	121	103	He	0.000	56.75	116.67	1	
Ba	137	103	He	0.213	0.56	66360.49	2	
Se	78	125	HEHe	0.003	6.32	67.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	372156.96	0.85	417017.506666667	89.24	60	120	
Te (No He)	125	No Gas	7209.68	0.55	8200.24	87.92	60	120	
Bi (No He)	209	No Gas	222552.62	1.85	231432.306666667	96.16	60	120	
Sc	45	He	33653.14	0.71	36540.28	92.1	60	120	
Ge	72	He	25823.21	0.18	26120.5833333333	98.86	60	120	
Rh	103	He	376754.80	0.68	379600.853333333	99.25	60	120	
Te	125	He	1986.82	2.20	2104.61333333333	94.4	60	120	
Te (HE He)	125	HEHe	3490.45	2.41	3773.85	92.49	60	120	

Sample Report

Sample Name	L766887-02 WG791805
File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:14:19
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	631.95	16.00	5	
B	11	45	No Gas	0.415	3.02	71593.81	5	
Se	82	125	No Gas	0.005	61.12	-16.56	5	
Tl	205	209	No Gas	0.000	31.41	230.00	5	
Pb	208	209	No Gas	0.000	12.70	310.01	5	
Th	232	209	No Gas	0.476	13.44	58.33	5	
U	238	209	No Gas	0.018	0.88	41055.38	5	
Na	23	45	He	5095.004	1.80	793226228.18	90	>LDR
Mg	24	45	He	1028.480	2.38	86754792.04	90	>LDR
Al	27	45	He	0.026	9.48	1110.05	90	
K	39	45	He	8.220	1.05	854268.87	90	
Ca	43	45	He	942.911	1.09	262851.06	90	>LDR
Ti	47	45	He	0.001	21.32	22.33	5	
V	51	72	He	0.008	3.66	9783.37	5	
Cr	52	72	He	0.000	7.02	2895.30	5	
Mn	55	72	He	1.117	1.59	827252.07	5	
Fe	56	72	He	0.039	4.45	69087.73	90	
Co	59	72	He	0.007	2.96	14494.17	5	
Ni	60	72	He	0.010	4.18	5677.87	5	
Cu	63	72	He	0.002	0.83	3103.72	5	
Zn	66	72	He	0.000	117.86	873.37	5	
As	75	125	He	0.003	5.15	696.85	5	
Sr	88	103	He	20.610	0.41	16667975.17	5	>LDR
Mo	95	103	He	0.039	2.47	20802.01	5	
Ag	107	103	He	0.000	14.46	158.89	1	
Cd	111	125	He	0.000	15.03	32.00	5	
Sn	118	103	He	0.001	2.49	283.34	2	
Sb	121	103	He	0.000	17.88	320.01	1	
Ba	137	103	He	0.040	4.17	9923.76	2	
Se	78	125	HEHe	0.011	1.83	162.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	346026.72	1.95	417017.506666667	82.98	60	120	
Te (No He)	125	No Gas	5857.95	3.50	8200.24	71.44	60	120	
Bi (No He)	209	No Gas	176121.03	0.81	231432.306666667	76.1	60	120	
Sc	45	He	29797.06	1.76	36540.28	81.55	60	120	
Ge	72	He	24072.44	1.47	26120.5833333333	92.16	60	120	
Rh	103	He	297791.17	0.81	379600.853333333	78.45	60	120	
Te	125	He	1659.00	3.73	2104.61333333333	78.83	60	120	
Te (HE He)	125	HEHe	2617.58	1.75	3773.85	69.36	60	120	

Sample Report

Sample Name	L766887-03 WG791805
File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:16:36
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.00	5	
B	11	45	No Gas	0.040	3.20	7540.27	5	
Se	82	125	No Gas	-0.008	N/A	-510.14	5	
Tl	205	209	No Gas	0.000	N/A	36.67	5	
Pb	208	209	No Gas	0.000	88.40	173.34	5	
Th	232	209	No Gas	0.139	55.58	21.67	5	
U	238	209	No Gas	0.000	N/A	23.33	5	
Na	23	45	He	2.556	7.31	546828.10	90	
Mg	24	45	He	0.104	11.15	9990.43	90	
Al	27	45	He	0.012	4.17	621.69	90	
K	39	45	He	0.000	4156.90	60205.00	90	
Ca	43	45	He	0.165	18.22	81.33	90	
Ti	47	45	He	0.000	117.05	11.67	5	
V	51	72	He	0.000	23.77	956.71	5	
Cr	52	72	He	0.000	1558.48	2570.24	5	
Mn	55	72	He	0.000	29.93	593.36	5	
Fe	56	72	He	0.021	8.12	49963.30	90	
Co	59	72	He	0.000	N/A	56.67	5	
Ni	60	72	He	0.000	N/A	220.01	5	
Cu	63	72	He	0.000	N/A	310.01	5	
Zn	66	72	He	-0.002	N/A	205.00	5	
As	75	125	He	0.000	18.42	98.50	5	
Sr	88	103	He	0.002	6.99	1816.82	5	
Mo	95	103	He	0.000	38.78	18.89	5	
Ag	107	103	He	0.000	252.17	34.44	1	
Cd	111	125	He	0.000	139.17	1.00	5	
Sn	118	103	He	0.000	24.95	136.67	2	
Sb	121	103	He	0.000	60.90	63.33	1	
Ba	137	103	He	0.000	27.29	40.00	2	
Se	78	125	HEHe	0.000	N/A	2.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	357113.75	0.70	417017.506666667	85.64	60	120	
Te (No He)	125	No Gas	6768.35	1.99	8200.24	82.54	60	120	
Bi (No He)	209	No Gas	202705.67	0.21	231432.306666667	87.59	60	120	
Sc	45	He	32464.87	1.63	36540.28	88.85	60	120	
Ge	72	He	24379.61	2.14	26120.5833333333	93.33	60	120	
Rh	103	He	355287.89	0.79	379600.853333333	93.6	60	120	
Te	125	He	1933.48	9.72	2104.61333333333	91.87	60	120	
Te (HE He)	125	HEHe	3267.39	2.43	3773.85	86.58	60	120	

Sample Report

Sample Name	L766887-04 WG791805
File Name	139SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:18:52
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	256.84	19.33	5	
B	11	45	No Gas	0.422	1.75	70793.19	5	
Se	82	125	No Gas	-0.002	N/A	-264.77	5	
Tl	205	209	No Gas	0.000	13.57	240.01	5	
Pb	208	209	No Gas	0.000	23.84	223.34	5	
Th	232	209	No Gas	0.293	44.74	35.00	5	
U	238	209	No Gas	0.018	1.37	39196.43	5	
Na	23	45	He	5185.708	2.36	798696361.43	90	>LDR
Mg	24	45	He	1041.366	1.45	86927508.71	90	>LDR
Al	27	45	He	0.030	12.82	1233.39	90	
K	39	45	He	8.336	1.53	856398.34	90	
Ca	43	45	He	950.248	2.04	262065.59	90	>LDR
Ti	47	45	He	0.000	24.43	14.33	5	
V	51	72	He	0.009	0.67	10031.86	5	
Cr	52	72	He	0.000	28.96	2975.34	5	
Mn	55	72	He	1.100	0.70	798214.31	5	
Fe	56	72	He	0.015	4.68	42512.68	90	
Co	59	72	He	0.007	2.38	14043.69	5	
Ni	60	72	He	0.010	0.42	5767.90	5	
Cu	63	72	He	0.002	4.51	2887.00	5	
Zn	66	72	He	0.001	2.37	1063.38	5	
As	75	125	He	0.003	4.36	686.35	5	
Sr	88	103	He	20.929	0.73	16554848.50	5	>LDR
Mo	95	103	He	0.040	1.11	20822.06	5	
Ag	107	103	He	0.000	14.46	188.89	1	
Cd	111	125	He	0.000	24.96	30.00	5	
Sn	118	103	He	0.000	7.39	226.68	2	
Sb	121	103	He	0.000	12.18	276.68	1	
Ba	137	103	He	0.042	0.84	10040.46	2	
Se	78	125	HEHe	0.011	2.27	170.50	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	336272.34	0.43	417017.506666667	80.64	60	120	
Te (No He)	125	No Gas	5871.28	5.54	8200.24	71.6	60	120	
Bi (No He)	209	No Gas	166504.35	1.44	231432.306666667	71.95	60	120	
Sc	45	He	29483.06	2.30	36540.28	80.69	60	120	
Ge	72	He	23581.60	1.22	26120.5833333333	90.28	60	120	
Rh	103	He	291259.53	0.29	379600.853333333	76.73	60	120	
Te	125	He	1622.33	3.82	2104.61333333333	77.08	60	120	
Te (HE He)	125	HEHe	2701.93	2.14	3773.85	71.6	60	120	

Sample Report

Sample Name	L766918-02 WG791805
File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:21:07
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	8.62	80.00	5	
B	11	45	No Gas	0.367	0.92	64853.30	5	
Se	82	125	No Gas	-0.003	N/A	-308.18	5	
Tl	205	209	No Gas	0.000	37.34	243.34	5	
Pb	208	209	No Gas	0.003	2.05	4210.75	5	
Th	232	209	No Gas	35.658	1.94	4244.07	5	>LDR
U	238	209	No Gas	0.008	1.52	19284.72	5	
Na	23	45	He	1714.114	1.96	280945349.15	90	>LDR
Mg	24	45	He	423.173	0.81	37571734.44	90	>LDR
Al	27	45	He	1.674	0.97	67063.35	90	
K	39	45	He	9.222	0.51	1001610.32	90	
Ca	43	45	He	678.302	0.61	199017.34	90	>LDR
Ti	47	45	He	0.022	3.77	724.35	5	
V	51	72	He	0.006	3.64	6933.38	5	
Cr	52	72	He	0.006	2.45	10520.55	5	
Mn	55	72	He	0.258	2.32	187418.13	5	
Fe	56	72	He	2.244	3.49	2395011.37	90	
Co	59	72	He	0.002	2.60	4947.59	5	
Ni	60	72	He	0.005	9.71	2980.36	5	
Cu	63	72	He	0.003	4.33	4320.73	5	
Zn	66	72	He	0.012	5.06	3758.86	5	
As	75	125	He	0.002	7.18	448.18	5	
Sr	88	103	He	13.917	2.52	11883023.99	5	>LDR
Mo	95	103	He	0.018	2.32	10314.93	5	
Ag	107	103	He	0.000	66.11	55.56	1	
Cd	111	125	He	0.000	7.91	36.67	5	
Sn	118	103	He	0.000	17.56	190.00	2	
Sb	121	103	He	0.000	22.01	246.68	1	
Ba	137	103	He	0.050	3.97	12952.99	2	
Se	78	125	HEHe	0.010	5.70	157.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	353995.20	0.42	417017.506666667	84.89	60	120	
Te (No He)	125	No Gas	6146.95	1.43	8200.24	74.96	60	120	
Bi (No He)	209	No Gas	178820.02	0.30	231432.306666667	77.27	60	120	
Sc	45	He	31355.86	0.92	36540.28	85.81	60	120	
Ge	72	He	23596.10	1.93	26120.5833333333	90.34	60	120	
Rh	103	He	314417.57	1.10	379600.853333333	82.83	60	120	
Te	125	He	1753.46	6.33	2104.61333333333	83.31	60	120	
Te (HE He)	125	HEHe	2933.32	0.77	3773.85	77.73	60	120	

Sample Report

Sample Name	L766918-04 WG791805
File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:23:40
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	18.41	75.33	5	
B	11	45	No Gas	0.299	1.61	53652.62	5	
Se	82	125	No Gas	0.006	77.97	2.46	5	
Tl	205	209	No Gas	0.000	19.36	350.01	5	
Pb	208	209	No Gas	0.003	3.73	4917.66	5	
Th	232	209	No Gas	42.057	3.20	5061.04	5	>LDR
U	238	209	No Gas	0.009	3.88	21792.01	5	
Na	23	45	He	2734.488	0.96	439509620.12	90	>LDR
Mg	24	45	He	675.600	2.53	58837894.12	90	>LDR
Al	27	45	He	2.520	1.05	98930.47	90	
K	39	45	He	11.031	1.68	1163827.92	90	
Ca	43	45	He	843.194	1.81	242632.23	90	>LDR
Ti	47	45	He	0.033	5.51	1094.38	5	
V	51	72	He	0.007	3.45	8424.18	5	
Cr	52	72	He	0.005	1.82	9268.04	5	
Mn	55	72	He	0.291	0.55	210219.60	5	
Fe	56	72	He	2.760	0.58	2926039.23	90	
Co	59	72	He	0.003	1.30	5611.20	5	
Ni	60	72	He	0.006	7.29	3410.47	5	
Cu	63	72	He	0.003	2.78	5321.07	5	
Zn	66	72	He	0.024	5.31	6721.62	5	
As	75	125	He	0.002	2.15	519.51	5	
Sr	88	103	He	18.936	1.15	15903623.51	5	>LDR
Mo	95	103	He	0.011	1.70	6208.06	5	
Ag	107	103	He	0.000	39.63	75.55	1	
Cd	111	125	He	0.000	24.97	41.67	5	
Sn	118	103	He	0.001	17.56	300.01	2	
Sb	121	103	He	0.000	22.89	323.35	1	
Ba	137	103	He	0.068	5.89	17274.42	2	
Se	78	125	HEHe	0.018	1.36	269.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	359074.18	0.76	417017.506666667	86.11	60	120	
Te (No He)	125	No Gas	6139.16	1.14	8200.24	74.87	60	120	
Bi (No He)	209	No Gas	180882.45	1.72	231432.306666667	78.16	60	120	
Sc	45	He	30754.59	1.40	36540.28	84.17	60	120	
Ge	72	He	23487.04	2.66	26120.5833333333	89.92	60	120	
Rh	103	He	309265.51	1.97	379600.853333333	81.47	60	120	
Te	125	He	1783.46	4.07	2104.61333333333	84.74	60	120	
Te (HE He)	125	HEHe	2708.27	0.87	3773.85	71.76	60	120	

Sample Report

Sample Name	L766918-06 WG791805
File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:25:56
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.67	5	
B	11	45	No Gas	0.147	2.70	27490.32	5	
Se	82	125	No Gas	-0.007	N/A	-494.75	5	
Tl	205	209	No Gas	0.000	47.36	140.00	5	
Pb	208	209	No Gas	0.000	37.93	286.68	5	
Th	232	209	No Gas	0.334	54.22	48.33	5	
U	238	209	No Gas	0.017	3.97	43878.10	5	
Na	23	45	He	85.408	2.49	14378992.29	90	
Mg	24	45	He	141.070	1.88	12772664.39	90	>LDR
Al	27	45	He	0.049	7.51	2145.18	90	
K	39	45	He	10.303	2.04	1134003.40	90	
Ca	43	45	He	602.626	1.44	180299.29	90	>LDR
Ti	47	45	He	0.001	12.18	43.67	5	
V	51	72	He	0.010	0.76	12422.05	5	
Cr	52	72	He	0.000	N/A	2426.89	5	
Mn	55	72	He	0.394	1.54	297756.84	5	
Fe	56	72	He	0.032	1.54	62505.11	90	
Co	59	72	He	0.002	5.59	3340.44	5	
Ni	60	72	He	0.003	9.36	1880.15	5	
Cu	63	72	He	0.000	12.09	893.38	5	
Zn	66	72	He	-0.001	N/A	685.02	5	
As	75	125	He	0.004	7.83	858.20	5	
Sr	88	103	He	11.518	0.92	10737488.59	5	>LDR
Mo	95	103	He	0.017	1.10	10701.88	5	
Ag	107	103	He	0.000	30.77	35.56	1	
Cd	111	125	He	0.000	19.08	16.00	5	
Sn	118	103	He	0.000	41.14	186.67	2	
Sb	121	103	He	0.000	19.04	416.68	1	
Ba	137	103	He	0.060	2.38	16890.70	2	
Se	78	125	HEHe	0.000	36.06	10.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	371963.16	1.04	417017.506666667	89.2	60	120	
Te (No He)	125	No Gas	6877.30	3.00	8200.24	83.87	60	120	
Bi (No He)	209	No Gas	204144.03	0.50	231432.306666667	88.21	60	120	
Sc	45	He	31978.32	1.86	36540.28	87.52	60	120	
Ge	72	He	24565.47	0.94	26120.5833333333	94.05	60	120	
Rh	103	He	343276.15	1.00	379600.853333333	90.43	60	120	
Te	125	He	1829.02	8.02	2104.61333333333	86.91	60	120	
Te (HE He)	125	HEHe	3157.36	2.64	3773.85	83.66	60	120	

Sample Report

Sample Name	L766918-08 WG791805
File Name	143SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:28:10
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	10.00	5	
B	11	45	No Gas	1.105	0.94	196571.60	5	
Se	82	125	No Gas	0.010	53.24	167.76	5	
Tl	205	209	No Gas	0.000	23.57	253.34	5	
Pb	208	209	No Gas	0.000	82.11	156.67	5	
Th	232	209	No Gas	0.260	14.80	35.00	5	
U	238	209	No Gas	0.092	1.51	218536.11	5	
Na	23	45	He	1847.685	0.34	299049208.88	90	>LDR
Mg	24	45	He	737.887	1.12	64699255.71	90	>LDR
Al	27	45	He	0.020	12.81	935.04	90	
K	39	45	He	36.756	0.78	3770519.00	90	
Ca	43	45	He	805.027	0.64	233236.99	90	>LDR
Ti	47	45	He	0.000	16.37	20.33	5	
V	51	72	He	0.038	0.27	43095.42	5	
Cr	52	72	He	0.000	18.16	2761.95	5	
Mn	55	72	He	0.428	1.66	313493.39	5	
Fe	56	72	He	-0.006	N/A	19777.46	90	
Co	59	72	He	0.003	7.27	6718.36	5	
Ni	60	72	He	0.005	5.31	3183.74	5	
Cu	63	72	He	0.003	3.91	4714.18	5	
Zn	66	72	He	0.003	25.72	1503.43	5	
As	75	125	He	0.007	2.80	1495.58	5	
Sr	88	103	He	17.584	0.48	15484994.35	5	>LDR
Mo	95	103	He	0.049	1.56	28924.06	5	
Ag	107	103	He	0.000	35.65	53.33	1	
Cd	111	125	He	0.000	27.82	23.67	5	
Sn	118	103	He	0.002	11.11	960.05	2	
Sb	121	103	He	0.001	10.38	633.36	1	
Ba	137	103	He	0.043	2.38	11588.48	2	
Se	78	125	HEHe	0.021	2.34	354.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	358167.90	1.26	417017.506666667	85.89	60	120	
Te (No He)	125	No Gas	6520.45	1.32	8200.24	79.52	60	120	
Bi (No He)	209	No Gas	186372.02	1.08	231432.306666667	80.53	60	120	
Sc	45	He	30965.01	1.38	36540.28	84.74	60	120	
Ge	72	He	23797.59	1.43	26120.5833333333	91.11	60	120	
Rh	103	He	324259.46	1.72	379600.853333333	85.42	60	120	
Te	125	He	1811.24	2.51	2104.61333333333	86.06	60	120	
Te (HE He)	125	HEHe	2989.66	1.39	3773.85	79.22	60	120	

Sample Report

Sample Name	L767115-02 WG791805
File Name	144SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:30:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	8.67	5	
B	11	45	No Gas	1.344	2.61	244032.43	5	
Se	82	125	No Gas	-0.006	N/A	-406.68	5	
Tl	205	209	No Gas	0.000	42.11	156.67	5	
Pb	208	209	No Gas	0.000	3.45	256.68	5	
Th	232	209	No Gas	0.190	60.19	26.67	5	
U	238	209	No Gas	0.093	1.48	225017.58	5	
Na	23	45	He	2680.385	3.27	441807073.42	90	>LDR
Mg	24	45	He	995.988	2.37	88955438.67	90	>LDR
Al	27	45	He	0.025	11.21	1118.40	90	
K	39	45	He	14.048	1.92	1504388.62	90	
Ca	43	45	He	982.645	1.62	290034.35	90	>LDR
Ti	47	45	He	0.000	88.01	21.67	5	
V	51	72	He	0.010	0.64	11297.83	5	
Cr	52	72	He	0.000	N/A	2223.53	5	
Mn	55	72	He	2.070	2.17	1544855.81	5	
Fe	56	72	He	0.397	0.82	457374.33	90	
Co	59	72	He	0.014	1.30	28314.79	5	
Ni	60	72	He	0.009	5.97	5321.05	5	
Cu	63	72	He	0.000	9.11	1073.39	5	
Zn	66	72	He	0.001	46.78	988.38	5	
As	75	125	He	0.036	5.15	7744.42	5	
Sr	88	103	He	19.680	1.29	16895822.67	5	>LDR
Mo	95	103	He	0.056	1.47	31801.37	5	
Ag	107	103	He	0.000	263.33	31.11	1	
Cd	111	125	He	0.000	18.55	27.67	5	
Sn	118	103	He	0.000	16.75	180.00	2	
Sb	121	103	He	0.000	26.53	203.34	1	
Ba	137	103	He	0.052	2.32	13473.50	2	
Se	78	125	HEHe	0.001	10.18	23.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	365889.17	0.66	417017.506666667	87.74	60	120	
Te (No He)	125	No Gas	6425.97	1.54	8200.24	78.36	60	120	
Bi (No He)	209	No Gas	188582.46	0.58	231432.306666667	81.48	60	120	
Sc	45	He	31552.93	2.32	36540.28	86.35	60	120	
Ge	72	He	24248.25	1.04	26120.5833333333	92.83	60	120	
Rh	103	He	316137.78	0.80	379600.853333333	83.28	60	120	
Te	125	He	1771.24	5.62	2104.61333333333	84.16	60	120	
Te (HE He)	125	HEHe	2822.96	1.95	3773.85	74.8	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	145_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:32:41
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.094	1.04	37576.93	0.1	94.38	90	110	
B	11	45	No Gas	0.122	0.49	29482.42	0.1	122.42	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.098	1.74	4863.47	0.1	98.43	90	110	
Tl	205	209	No Gas	0.105	1.63	315886.38	0.1	104.6	90	110	
Pb	208	209	No Gas	0.104	1.01	226049.47	0.1	104.19	90	110	
Th	232	209	No Gas	0.112	53.56	23.33	0.1	111.7	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.105	0.66	356736.66	0.1	104.5	90	110	
Na	23	45	He	11.637	2.85	2721135.27	10	116.37	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.420	1.69	1256007.17	10	104.2	90	110	
Al	27	45	He	1.005	1.03	54702.60	1	100.53	90	110	
K	39	45	He	10.493	1.32	1527721.07	10	104.93	90	110	
Ca	43	45	He	10.393	1.91	4174.61	10	103.93	90	110	
Ti	47	45	He	0.104	2.80	4713.77	0.1	103.98	90	110	
V	51	72	He	0.102	1.67	147011.17	0.1	102.49	90	110	
Cr	52	72	He	0.102	2.51	171612.49	0.1	101.8	90	110	
Mn	55	72	He	0.103	3.04	97302.15	0.1	103.2	90	110	
Fe	56	72	He	1.012	4.19	1414551.28	1	101.23	90	110	
Co	59	72	He	0.104	2.39	264989.14	0.1	103.66	90	110	
Ni	60	72	He	0.102	3.41	71127.88	0.1	102.49	90	110	
Cu	63	72	He	0.104	3.87	190947.76	0.1	103.72	90	110	
Zn	66	72	He	0.103	2.69	34364.35	0.1	102.93	90	110	
As	75	125	He	0.101	3.70	30968.43	0.1	100.92	90	110	
Sr	88	103	He	0.107	0.88	132033.11	0.1	107.24	90	110	
Mo	95	103	He	0.104	0.49	84781.44	0.1	103.87	90	110	
Ag	107	103	He	0.103	0.96	250403.78	0.1	102.66	90	110	
Cd	111	125	He	0.102	3.34	35909.81	0.1	102.38	90	110	
Sn	118	103	He	0.104	1.44	81407.40	0.1	104.5	90	110	
Sb	121	103	He	0.104	0.10	118626.80	0.1	104.33	90	110	
Ba	137	103	He	0.103	4.18	38474.23	0.1	102.83	90	110	
Se	78	125	HEHe	0.101	1.25	2283.18	0.1	100.55	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	429819.93	1.09	417017.506666667	103.07	60	120	
Te (No He)	125	No Gas	8474.85	1.94	8200.24	103.35	60	120	
Bi (No He)	209	No Gas	240662.52	0.99	231432.306666667	103.99	60	120	
Sc	45	He	38300.13	0.85	36540.28	104.82	60	120	
Ge	72	He	27503.04	1.87	26120.5833333333	105.29	60	120	
Rh	103	He	407745.35	1.05	379600.853333333	107.41	60	120	
Te	125	He	2304.65	2.77	2104.61333333333	109.5	60	120	
Te (HE He)	125	HEHe	3700.50	2.01	3773.85	98.06	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	146_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:34:55
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	90.20	20.67	0.001	
B	11	45	No Gas	0.019	4.03	4834.16	0.02	
Se	82	125	No Gas	-0.005	N/A	-501.18	0.001	
Tl	205	209	No Gas	0.000	36.37	253.34	0.001	
Pb	208	209	No Gas	0.000	N/A	93.33	0.001	
Th	232	209	No Gas	0.086	50.95	18.33	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	N/A	50.00	0.01	
Na	23	45	He	1.110	0.15	368683.67	1	CCB Main CR1 Failed
Mg	24	45	He	0.054	7.74	6761.81	1	
Al	27	45	He	-0.001	N/A	113.33	0.1	
K	39	45	He	-0.027	N/A	65086.03	1	
Ca	43	45	He	0.018	101.97	42.67	1	
Ti	47	45	He	0.000	824.34	8.00	0.01	
V	51	72	He	0.000	3.77	555.01	0.002	
Cr	52	72	He	0.000	N/A	2163.51	0.001	
Mn	55	72	He	0.000	N/A	190.00	0.002	
Fe	56	72	He	-0.013	N/A	12158.63	0.1	
Co	59	72	He	0.000	N/A	50.00	0.001	
Ni	60	72	He	0.000	N/A	266.68	0.001	
Cu	63	72	He	0.000	N/A	163.33	0.002	
Zn	66	72	He	-0.002	N/A	176.67	0.01	
As	75	125	He	0.000	79.59	62.50	0.001	
Sr	88	103	He	0.001	9.85	1470.10	0.01	
Mo	95	103	He	0.000	113.78	22.22	0.002	
Ag	107	103	He	0.000	20.14	331.11	0.001	
Cd	111	125	He	0.000	76.63	4.00	0.001	
Sn	118	103	He	0.000	49.75	70.00	0.001	
Sb	121	103	He	0.000	20.83	210.00	0.001	
Ba	137	103	He	0.000	45.60	16.67	0.002	
Se	78	125	HEHe	0.000	N/A	2.08	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	408840.15	1.66	417017.506666667	98.04	60	120	
Te (No He)	125	No Gas	7954.54	1.97	8200.24	97	60	120	
Bi (No He)	209	No Gas	234183.92	0.29	231432.306666667	101.19	60	120	
Sc	45	He	37089.35	0.52	36540.28	101.5	60	120	
Ge	72	He	26721.57	0.94	26120.5833333333	102.3	60	120	
Rh	103	He	400712.57	1.64	379600.853333333	105.56	60	120	
Te	125	He	2241.31	3.32	2104.61333333333	106.49	60	120	
Te (HE He)	125	HEHe	3680.15	0.92	3773.85	97.52	60	120	

Sample Report

Sample Name	L767115-05 WG791805
File Name	147SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:37:26
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	120.42	22.67	5	
B	11	45	No Gas	1.339	1.42	244813.93	5	
Se	82	125	No Gas	-0.007	N/A	-444.90	5	
Tl	205	209	No Gas	0.000	17.09	203.34	5	
Pb	208	209	No Gas	0.000	10.68	233.34	5	
Th	232	209	No Gas	0.127	92.06	18.33	5	
U	238	209	No Gas	0.093	1.83	219212.49	5	
Na	23	45	He	2612.161	2.90	442705006.74	90	>LDR
Mg	24	45	He	970.776	1.96	89151635.34	90	>LDR
Al	27	45	He	0.027	25.28	1233.49	90	
K	39	45	He	13.764	2.61	1516331.23	90	
Ca	43	45	He	971.918	1.44	294950.55	90	>LDR
Ti	47	45	He	0.001	26.79	26.33	5	
V	51	72	He	0.010	2.89	11012.58	5	
Cr	52	72	He	0.000	N/A	2383.55	5	
Mn	55	72	He	2.150	2.86	1574225.86	5	
Fe	56	72	He	0.426	2.36	479728.95	90	
Co	59	72	He	0.014	2.43	28642.01	5	
Ni	60	72	He	0.009	1.95	5107.64	5	
Cu	63	72	He	0.001	18.96	1590.11	5	
Zn	66	72	He	0.001	32.31	1051.71	5	
As	75	125	He	0.038	5.28	8024.74	5	
Sr	88	103	He	19.908	1.03	17253171.82	5	>LDR
Mo	95	103	He	0.055	1.82	31431.56	5	
Ag	107	103	He	0.000	22.36	126.67	1	
Cd	111	125	He	0.000	34.86	32.33	5	
Sn	118	103	He	0.000	18.70	236.67	2	
Sb	121	103	He	0.000	43.39	236.67	1	
Ba	137	103	He	0.052	0.79	13697.04	2	
Se	78	125	HEHe	0.001	19.85	22.50	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	368344.92	1.63	417017.506666667	88.33	60	120	
Te (No He)	125	No Gas	6305.91	3.65	8200.24	76.9	60	120	
Bi (No He)	209	No Gas	184698.32	0.48	231432.306666667	79.81	60	120	
Sc	45	He	32440.40	2.18	36540.28	88.78	60	120	
Ge	72	He	23798.66	0.77	26120.5833333333	91.11	60	120	
Rh	103	He	319130.95	0.95	379600.853333333	84.07	60	120	
Te	125	He	1760.12	5.95	2104.61333333333	83.63	60	120	
Te (HE He)	125	HEHe	2853.30	1.97	3773.85	75.61	60	120	

Sample Report

Sample Name	L767115-09 WG791805
File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:39:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	11.33	5	
B	11	45	No Gas	0.411	0.81	71466.79	5	
Se	82	125	No Gas	-0.001	N/A	-237.42	5	
Tl	205	209	No Gas	0.000	13.90	300.01	5	
Pb	208	209	No Gas	0.000	11.84	320.01	5	
Th	232	209	No Gas	0.462	9.38	55.00	5	
U	238	209	No Gas	0.040	0.78	88250.76	5	
Na	23	45	He	4432.814	2.27	688938283.07	90	>LDR
Mg	24	45	He	1105.721	1.41	93127941.94	90	>LDR
Al	27	45	He	0.055	28.62	2217.54	90	
K	39	45	He	20.151	2.57	2010862.05	90	
Ca	43	45	He	1176.432	1.85	327401.97	90	>LDR
Ti	47	45	He	0.001	30.43	42.33	5	
V	51	72	He	0.019	2.18	21891.52	5	
Cr	52	72	He	0.001	9.47	3228.72	5	
Mn	55	72	He	0.130	1.27	95449.27	5	
Fe	56	72	He	0.055	3.42	84610.18	90	
Co	59	72	He	0.001	8.08	1640.12	5	
Ni	60	72	He	0.002	0.65	1406.76	5	
Cu	63	72	He	0.001	15.82	1356.76	5	
Zn	66	72	He	-0.001	N/A	650.02	5	
As	75	125	He	0.007	3.96	1543.41	5	
Sr	88	103	He	25.189	0.24	20609063.02	5	>LDR
Mo	95	103	He	0.032	1.35	17351.82	5	
Ag	107	103	He	0.000	27.73	90.00	1	
Cd	111	125	He	0.000	14.85	30.33	5	
Sn	118	103	He	0.001	17.26	313.34	2	
Sb	121	103	He	0.000	20.92	283.34	1	
Ba	137	103	He	0.065	1.25	16149.68	2	
Se	78	125	HEHe	0.011	2.26	165.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	348707.88	0.09	417017.506666667	83.62	60	120	
Te (No He)	125	No Gas	5865.72	3.89	8200.24	71.53	60	120	
Bi (No He)	209	No Gas	170835.52	0.57	231432.306666667	73.82	60	120	
Sc	45	He	29746.90	1.83	36540.28	81.41	60	120	
Ge	72	He	23756.35	1.92	26120.5833333333	90.95	60	120	
Rh	103	He	301265.67	0.20	379600.853333333	79.36	60	120	
Te	125	He	1691.22	3.85	2104.61333333333	80.36	60	120	
Te (HE He)	125	HEHe	2677.93	2.77	3773.85	70.96	60	120	

Sample Report

Sample Name	L767115-10 WG791805
File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:41:56
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	11.33	5	
B	11	45	No Gas	0.266	1.32	51284.34	5	
Se	82	125	No Gas	-0.002	N/A	-295.60	5	
Tl	205	209	No Gas	0.000	56.42	186.67	5	
Pb	208	209	No Gas	0.000	151.48	146.67	5	
Th	232	209	No Gas	0.100	76.28	16.67	5	
U	238	209	No Gas	0.017	2.11	46209.48	5	
Na	23	45	He	44.731	1.41	7822112.17	90	
Mg	24	45	He	106.054	1.19	9902161.93	90	>LDR
Al	27	45	He	0.018	6.23	906.70	90	
K	39	45	He	10.551	2.53	1196359.49	90	
Ca	43	45	He	608.202	1.05	187650.26	90	>LDR
Ti	47	45	He	0.001	32.04	25.00	5	
V	51	72	He	0.037	0.64	43483.33	5	
Cr	52	72	He	0.001	4.69	3320.40	5	
Mn	55	72	He	0.013	0.41	10530.72	5	
Fe	56	72	He	-0.003	N/A	24457.59	90	
Co	59	72	He	0.000	1.56	270.01	5	
Ni	60	72	He	0.001	28.46	1110.06	5	
Cu	63	72	He	0.001	14.80	1630.12	5	
Zn	66	72	He	-0.001	N/A	511.68	5	
As	75	125	He	0.006	5.21	1359.07	5	
Sr	88	103	He	10.321	0.89	9769504.65	5	>LDR
Mo	95	103	He	0.024	1.00	15202.66	5	
Ag	107	103	He	0.000	36.51	41.11	1	
Cd	111	125	He	0.000	50.76	8.67	5	
Sn	118	103	He	0.000	26.44	130.00	2	
Sb	121	103	He	0.000	8.44	320.01	1	
Ba	137	103	He	0.027	7.53	7805.69	2	
Se	78	125	HEHe	0.007	2.52	128.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	386122.73	0.99	417017.506666667	92.59	60	120	
Te (No He)	125	No Gas	6932.88	2.03	8200.24	84.54	60	120	
Bi (No He)	209	No Gas	206652.27	1.35	231432.306666667	89.29	60	120	
Sc	45	He	32973.83	0.63	36540.28	90.24	60	120	
Ge	72	He	24927.20	1.01	26120.5833333333	95.43	60	120	
Rh	103	He	348544.48	0.54	379600.853333333	91.82	60	120	
Te	125	He	1921.26	5.15	2104.61333333333	91.29	60	120	
Te (HE He)	125	HEHe	3174.37	1.40	3773.85	84.11	60	120	

Sample Report

Sample Name	L767115-07 WG791805
File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:44:10
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	7.33	5	
B	11	45	No Gas	0.501	2.78	85722.97	5	
Se	82	125	No Gas	-0.008	N/A	-449.41	5	
Tl	205	209	No Gas	0.000	10.16	243.34	5	
Pb	208	209	No Gas	0.000	27.16	380.01	5	
Th	232	209	No Gas	1.574	18.70	186.67	5	
U	238	209	No Gas	0.057	0.19	126881.72	5	
Na	23	45	He	3800.495	1.85	592846831.17	90	>LDR
Mg	24	45	He	856.497	1.75	72389155.59	90	>LDR
Al	27	45	He	0.133	4.36	5200.96	90	
K	39	45	He	14.968	1.50	1513155.39	90	
Ca	43	45	He	966.846	1.77	270028.32	90	>LDR
Ti	47	45	He	0.003	11.61	105.00	5	
V	51	72	He	0.009	1.52	9751.68	5	
Cr	52	72	He	0.000	21.72	2840.30	5	
Mn	55	72	He	0.553	2.95	400161.19	5	
Fe	56	72	He	0.115	3.66	147109.04	90	
Co	59	72	He	0.003	5.00	6144.74	5	
Ni	60	72	He	0.008	3.89	4574.14	5	
Cu	63	72	He	0.001	5.61	2086.87	5	
Zn	66	72	He	0.000	686.87	790.03	5	
As	75	125	He	0.003	6.64	603.84	5	
Sr	88	103	He	21.678	0.47	17881184.32	5	>LDR
Mo	95	103	He	0.036	1.15	19919.63	5	
Ag	107	103	He	0.000	37.86	80.00	1	
Cd	111	125	He	0.000	8.52	39.67	5	
Sn	118	103	He	0.000	12.78	183.34	2	
Sb	121	103	He	0.000	36.73	310.01	1	
Ba	137	103	He	0.060	1.32	15008.38	2	
Se	78	125	HEHe	0.007	3.28	101.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343340.33	1.17	417017.506666667	82.33	60	120	
Te (No He)	125	No Gas	6016.89	0.06	8200.24	73.37	60	120	
Bi (No He)	209	No Gas	175676.60	0.69	231432.306666667	75.91	60	120	
Sc	45	He	29851.58	1.35	36540.28	81.7	60	120	
Ge	72	He	23510.39	3.29	26120.5833333333	90.01	60	120	
Rh	103	He	303715.10	0.66	379600.853333333	80.01	60	120	
Te	125	He	1795.68	4.39	2104.61333333333	85.32	60	120	
Te (HE He)	125	HEHe	2631.26	3.10	3773.85	69.72	60	120	

Sample Report

Sample Name	MS L767115-07 WG791805
File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:46:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.043	1.21	12206.32	5	
B	11	45	No Gas	0.546	2.69	92016.57	5	
Se	82	125	No Gas	0.037	9.51	1020.06	5	
Tl	205	209	No Gas	0.053	1.00	99896.83	5	
Pb	208	209	No Gas	0.053	1.37	70860.64	5	
Th	232	209	No Gas	1187.126	1.27	131191.32	5	>LDR
U	238	209	No Gas	0.111	1.67	235857.88	5	
Na	23	45	He	3781.814	0.81	603062871.02	90	>LDR
Mg	24	45	He	855.969	0.47	73949635.56	90	>LDR
Al	27	45	He	5.157	1.59	200711.80	90	
K	39	45	He	19.914	1.16	2038834.45	90	
Ca	43	45	He	981.084	0.74	280078.62	90	>LDR
Ti	47	45	He	0.054	0.76	1756.77	5	
V	51	72	He	0.056	1.56	62845.21	5	
Cr	52	72	He	0.045	0.19	61308.73	5	
Mn	55	72	He	0.598	0.45	440640.84	5	
Fe	56	72	He	4.608	0.39	4962487.84	90	
Co	59	72	He	0.048	1.15	97164.50	5	
Ni	60	72	He	0.051	3.45	28117.67	5	
Cu	63	72	He	0.045	0.79	64865.56	5	
Zn	66	72	He	0.043	1.33	11646.46	5	
As	75	125	He	0.055	3.73	11718.11	5	
Sr	88	103	He	21.689	0.97	17958649.31	5	>LDR
Mo	95	103	He	0.090	1.82	49497.44	5	
Ag	107	103	He	0.050	0.88	81420.49	1	
Cd	111	125	He	0.048	3.87	11675.86	5	
Sn	118	103	He	0.053	3.10	27784.75	2	
Sb	121	103	He	0.056	1.71	43083.85	1	
Ba	137	103	He	0.117	1.94	29428.39	2	
Se	78	125	HEHe	0.064	1.36	963.70	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	338454.84	0.54	417017.506666667	81.16	60	120	
Te (No He)	125	No Gas	5860.16	3.98	8200.24	71.46	60	120	
Bi (No He)	209	No Gas	166164.48	2.05	231432.306666667	71.8	60	120	
Sc	45	He	30510.71	2.26	36540.28	83.5	60	120	
Ge	72	He	23942.24	1.26	26120.5833333333	91.66	60	120	
Rh	103	He	304884.14	0.06	379600.853333333	80.32	60	120	
Te	125	He	1767.90	3.88	2104.61333333333	84	60	120	
Te (HE He)	125	HEHe	2731.27	0.80	3773.85	72.37	60	120	

Sample Report

Sample Name	MSD L767115-07 WG791805
File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:48:58
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.044	2.76	13305.93	5	
B	11	45	No Gas	0.555	2.65	100696.97	5	
Se	82	125	No Gas	0.044	5.83	1335.98	5	
Tl	205	209	No Gas	0.053	2.00	105614.56	5	
Pb	208	209	No Gas	0.053	2.39	76461.98	5	
Th	232	209	No Gas	1225.148	2.14	143570.36	5	>LDR
U	238	209	No Gas	0.113	1.94	254457.26	5	
Na	23	45	He	5488.625	49.79	621368897.41	90	>LDR
Mg	24	45	He	1267.197	50.03	77696848.84	90	>LDR
Al	27	45	He	7.714	50.50	212792.05	90	
K	39	45	He	29.723	49.03	2151399.97	90	
Ca	43	45	He	1431.705	49.64	290416.43	90	>LDR
Ti	47	45	He	0.079	49.16	1838.45	5	
V	51	72	He	0.078	41.92	65612.61	5	
Cr	52	72	He	0.063	42.48	63354.29	5	
Mn	55	72	He	0.833	41.22	461139.46	5	
Fe	56	72	He	6.384	41.55	5157275.03	90	
Co	59	72	He	0.067	40.45	100689.19	5	
Ni	60	72	He	0.071	39.32	29236.55	5	
Cu	63	72	He	0.062	41.68	67618.47	5	
Zn	66	72	He	0.059	43.91	11936.69	5	
As	75	125	He	0.084	50.18	12005.01	5	
Sr	88	103	He	31.848	46.04	18792235.97	5	>LDR
Mo	95	103	He	0.130	45.06	51139.93	5	
Ag	107	103	He	0.070	45.96	82225.00	1	
Cd	111	125	He	0.074	50.35	12040.50	5	
Sn	118	103	He	0.076	45.67	28516.29	2	
Sb	121	103	He	0.082	44.17	45006.58	1	
Ba	137	103	He	0.164	44.18	29505.11	2	
Se	78	125	HEHe	0.063	2.93	945.95	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	364532.45	0.26	417017.506666667	87.41	60	120	
Te (No He)	125	No Gas	6272.56	3.02	8200.24	76.49	60	120	
Bi (No He)	209	No Gas	176195.13	1.02	231432.306666667	76.13	60	120	
Sc	45	He	24770.75	37.93	36540.28	67.79	60	120	
Ge	72	He	19785.81	33.07	26120.5833333333	75.75	60	120	
Rh	103	He	244614.70	36.63	379600.853333333	64.44	60	120	
Te	125	He	1368.98	38.38	2104.61333333333	65.05	60	120	
Te (HE He)	125	HEHe	2723.27	0.82	3773.85	72.16	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	153_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:51:13
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.095	1.03	36545.05	0.1	94.96	90	110	
B	11	45	No Gas	0.110	2.37	25653.73	0.1	109.98	90	110	
Se	82	125	No Gas	0.096	8.00	4421.93	0.1	96.01	90	110	
Tl	205	209	No Gas	0.106	2.27	292944.60	0.1	105.8	90	110	
Pb	208	209	No Gas	0.106	1.70	210051.58	0.1	105.59	90	110	
Th	232	209	No Gas	0.941	9.49	156.67	0.1	940.59	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.106	1.37	331346.43	0.1	105.87	90	110	
Na	23	45	He	12.498	3.60	2836990.58	10	124.98	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.617	2.20	1246578.19	10	106.17	90	110	
Al	27	45	He	1.019	0.63	53993.37	1	101.87	90	110	
K	39	45	He	10.766	1.53	1525113.46	10	107.66	90	110	
Ca	43	45	He	10.492	1.52	4104.59	10	104.92	90	110	
Ti	47	45	He	0.104	2.02	4589.73	0.1	103.95	90	110	
V	51	72	He	0.105	1.44	145399.12	0.1	105.45	90	110	
Cr	52	72	He	0.105	1.74	169647.85	0.1	104.73	90	110	
Mn	55	72	He	0.108	1.66	97523.63	0.1	107.58	90	110	
Fe	56	72	He	1.031	1.07	1384744.51	1	103.1	90	110	
Co	59	72	He	0.105	0.91	258968.73	0.1	105.36	90	110	
Ni	60	72	He	0.105	1.36	69932.27	0.1	104.81	90	110	
Cu	63	72	He	0.105	2.25	185737.33	0.1	104.93	90	110	
Zn	66	72	He	0.102	1.56	32874.30	0.1	102.4	90	110	
As	75	125	He	0.104	4.53	30609.84	0.1	103.91	90	110	
Sr	88	103	He	0.112	0.42	131977.10	0.1	111.76	90	110	CCV Main CR1 Failed
Mo	95	103	He	0.104	1.16	81623.10	0.1	104.27	90	110	
Ag	107	103	He	0.104	0.31	243164.93	0.1	103.95	90	110	
Cd	111	125	He	0.104	3.75	34872.22	0.1	103.55	90	110	
Sn	118	103	He	0.105	1.99	78357.02	0.1	104.86	90	110	
Sb	121	103	He	0.106	0.32	115335.65	0.1	105.77	90	110	
Ba	137	103	He	0.104	1.46	37478.12	0.1	104.44	90	110	
Se	78	125	HEHe	0.106	2.25	2357.03	0.1	105.9	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	415473.85	1.16	417017.506666667	99.63	60	120	
Te (No He)	125	No Gas	7910.06	0.78	8200.24	96.46	60	120	
Bi (No He)	209	No Gas	220656.12	0.47	231432.306666667	95.34	60	120	
Sc	45	He	37307.55	0.66	36540.28	102.1	60	120	
Ge	72	He	26436.61	0.79	26120.5833333333	101.21	60	120	
Rh	103	He	391060.09	0.12	379600.853333333	103.02	60	120	
Te	125	He	2213.52	3.78	2104.61333333333	105.17	60	120	
Te (HE He)	125	HEHe	3627.48	1.26	3773.85	96.12	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	154_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 02:53:26
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	14.00	0.001	
B	11	45	No Gas	0.016	7.44	4185.61	0.02	
Se	82	125	No Gas	-0.010	N/A	-713.79	0.001	
Tl	205	209	No Gas	0.000	32.50	256.68	0.001	
Pb	208	209	No Gas	0.000	52.14	160.00	0.001	
Th	232	209	No Gas	0.090	39.39	18.33	0.01	CCB Main CR1 Failed
U	238	209	No Gas	0.000	178.10	126.67	0.01	
Na	23	45	He	1.619	4.50	472063.10	1	CCB Main CR1 Failed
Mg	24	45	He	0.059	8.56	7262.04	1	
Al	27	45	He	-0.001	N/A	88.33	0.1	
K	39	45	He	0.010	15.85	69284.78	1	
Ca	43	45	He	0.001	2281.52	35.33	1	
Ti	47	45	He	0.000	N/A	5.00	0.01	
V	51	72	He	0.000	32.97	668.36	0.002	
Cr	52	72	He	0.000	N/A	2170.18	0.001	
Mn	55	72	He	0.000	N/A	210.00	0.002	
Fe	56	72	He	-0.013	N/A	12585.64	0.1	
Co	59	72	He	0.000	N/A	80.00	0.001	
Ni	60	72	He	0.000	N/A	293.34	0.001	
Cu	63	72	He	0.000	N/A	110.00	0.002	
Zn	66	72	He	-0.002	N/A	103.33	0.01	
As	75	125	He	0.000	24.76	70.83	0.001	
Sr	88	103	He	0.001	8.30	1623.45	0.01	
Mo	95	103	He	0.000	40.21	30.00	0.002	
Ag	107	103	He	0.000	32.40	320.01	0.001	
Cd	111	125	He	0.000	59.86	2.33	0.001	
Sn	118	103	He	0.000	59.86	56.67	0.001	
Sb	121	103	He	0.000	24.20	183.34	0.001	
Ba	137	103	He	0.000	N/A	3.33	0.002	
Se	78	125	HEHe	0.000	N/A	1.50	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	411163.67	0.97	417017.506666667	98.6	60	120	
Te (No He)	125	No Gas	7880.05	0.19	8200.24	96.1	60	120	
Bi (No He)	209	No Gas	226547.97	0.75	231432.306666667	97.89	60	120	
Sc	45	He	36629.23	1.57	36540.28	100.24	60	120	
Ge	72	He	26799.50	1.30	26120.5833333333	102.6	60	120	
Rh	103	He	390452.87	1.31	379600.853333333	102.86	60	120	
Te	125	He	2207.97	3.18	2104.61333333333	104.91	60	120	
Te (HE He)	125	HEHe	3600.14	1.39	3773.85	95.4	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	187ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:08:53
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	95.276	1.55	23393398.82	100	80	120	
Mg	24	45	He	95.674	0.70	12652136.89	100	80	120	
Al	27	45	He	100.591	1.04	5989022.00	100	80	120	
K	39	45	He	98.009	1.90	15009109.78	100	80	120	
Ca	43	45	He	96.552	1.09	42224.01	100	80	120	
Ti	47	45	He	1.964	1.87	97551.81	2	80	120	
Fe	56	72	He	92.672	1.77	142413644.54	100	80	120	
Mo	95	103	He	2.084	1.66	1776777.57	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	468986.96	0.89	417017.506666667	112.46	60	120	
Te (No He)	125	No Gas	8494.86	4.01	8200.24	103.59	60	120	
Bi (No He)	209	No Gas	249257.01	0.16	231432.306666667	107.7	60	120	
Sc	45	He	42032.47	1.48	36540.28	115.03	60	120	
Ge	72	He	30909.92	1.61	26120.5833333333	118.34	60	120	
Rh	103	He	426089.54	1.33	379600.853333333	112.25	60	120	
Te	125	He	2529.14	2.58	2104.61333333333	120.17	60	120	ISTD Failed
Te (HE He)	125	HEHe	3903.56	2.80	3773.85	103.44	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	188ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:11:06
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	1.71	8481.08	0.02	80	120	
B	11	45	No Gas	0.066	2.37	18277.90	0.02	80	120	ICSB Main CR1 Failed
Se	82	125	No Gas	0.021	15.09	809.38	0.02	80	120	
Tl	205	209	No Gas	0.020	1.80	61641.03	0.02	80	120	
Pb	208	209	No Gas	0.020	2.04	45830.28	0.02	80	120	
U	238	209	No Gas	0.020	1.17	72013.94	0.02	80	120	
Na	23	45	He	93.775	1.16	23861431.31	100	80	120	
Mg	24	45	He	94.692	1.74	12974338.98	100	80	120	
Al	27	45	He	99.243	1.93	6122187.20	100	80	120	
K	39	45	He	97.660	0.87	15498618.52	100	80	120	
Ca	43	45	He	96.131	0.74	43561.22	100	80	120	
Ti	47	45	He	1.949	1.09	100327.21	2	80	120	
V	51	72	He	0.019	1.78	32025.30	0.02	80	120	
Cr	52	72	He	0.019	1.66	39662.36	0.02	80	120	
Mn	55	72	He	0.020	4.31	22113.80	0.02	80	120	
Fe	56	72	He	94.237	3.05	145852807.83	100	80	120	
Co	59	72	He	0.019	1.83	56504.04	0.02	80	120	
Ni	60	72	He	0.019	5.47	15108.16	0.02	80	120	
Cu	63	72	He	0.019	3.27	40594.01	0.02	80	120	
Zn	66	72	He	0.019	1.22	8027.28	0.02	80	120	
As	75	125	He	0.019	4.45	6740.08	0.02	80	120	
Sr	88	103	He	0.024	1.03	30556.51	0.02	80	120	
Mo	95	103	He	2.126	1.85	1824662.71	2	80	120	
Ag	107	103	He	0.020	1.86	50116.96	0.02	80	120	
Cd	111	125	He	0.019	4.68	7759.82	0.02	80	120	
Sn	118	103	He	0.022	1.77	18005.28	0.02	80	120	
Sb	121	103	He	0.022	3.27	26629.17	0.02	80	120	
Ba	137	103	He	0.022	1.39	8532.79	0.02	80	120	
Se	78	125	HEHe	0.019	0.52	469.84	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	485853.78	0.50	417017.506666667	116.51	60	120	
Te (No He)	125	No Gas	8503.76	1.33	8200.24	103.7	60	120	
Bi (No He)	209	No Gas	248070.35	0.24	231432.306666667	107.19	60	120	
Sc	45	He	43552.51	1.09	36540.28	119.19	60	120	
Ge	72	He	31135.98	1.75	26120.5833333333	119.2	60	120	
Rh	103	He	428840.97	1.23	379600.853333333	112.97	60	120	
Te	125	He	2663.61	4.19	2104.61333333333	126.56	60	120	ISTD Failed
Te (HE He)	125	HEHe	4019.59	0.82	3773.85	106.51	60	120	

Sample Report

Sample Name	INSTBLK
File Name	189SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:13:34
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	10.00	5	
B	11	45	No Gas	0.030	3.46	7912.16	5	
Se	82	125	No Gas	-0.003	N/A	-401.79	5	
Tl	205	209	No Gas	0.000	51.62	133.33	5	
Pb	208	209	No Gas	0.000	N/A	76.67	5	
Th	232	209	No Gas	0.213	34.33	41.67	5	
U	238	209	No Gas	0.000	N/A	33.33	5	
Na	23	45	He	0.389	3.38	237225.26	90	
Mg	24	45	He	0.029	6.39	4347.49	90	
Al	27	45	He	0.025	15.80	1625.11	90	
K	39	45	He	0.039	25.62	82218.07	90	
Ca	43	45	He	-0.014	N/A	33.33	90	
Ti	47	45	He	0.000	11.95	32.33	5	
V	51	72	He	0.000	N/A	403.34	5	
Cr	52	72	He	-0.001	N/A	2136.84	5	
Mn	55	72	He	0.000	N/A	153.34	5	
Fe	56	72	He	0.011	42.79	49496.83	90	
Co	59	72	He	0.000	N/A	100.00	5	
Ni	60	72	He	0.000	N/A	260.01	5	
Cu	63	72	He	0.000	N/A	290.01	5	
Zn	66	72	He	-0.002	N/A	275.00	5	
As	75	125	He	0.000	27.55	69.00	5	
Sr	88	103	He	0.000	99.15	133.33	5	
Mo	95	103	He	0.001	7.91	561.12	5	
Ag	107	103	He	0.000	35.73	210.00	1	
Cd	111	125	He	0.000	120.74	1.67	5	
Sn	118	103	He	0.000	69.63	70.00	2	
Sb	121	103	He	0.000	140.46	30.00	1	
Ba	137	103	He	0.000	418.33	6.67	2	
Se	78	125	HEHe	0.000	N/A	1.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	450942.14	0.75	417017.506666667	108.14	60	120	
Te (No He)	125	No Gas	8381.46	1.26	8200.24	102.21	60	120	
Bi (No He)	209	No Gas	242467.86	1.31	231432.306666667	104.77	60	120	
Sc	45	He	41236.92	1.78	36540.28	112.85	60	120	
Ge	72	He	29787.55	2.07	26120.5833333333	114.04	60	120	
Rh	103	He	426238.39	2.01	379600.853333333	112.29	60	120	
Te	125	He	2559.14	9.30	2104.61333333333	121.6	60	120	ISTD Failed
Te (HE He)	125	HEHe	3926.56	3.66	3773.85	104.05	60	120	

Sample Report

Sample Name	INSTBLK
File Name	190SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:15:49
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	16.67	5	
B	11	45	No Gas	0.024	1.09	6848.29	5	
Se	82	125	No Gas	0.001	78.26	-238.38	5	
Tl	205	209	No Gas	0.000	N/A	66.67	5	
Pb	208	209	No Gas	0.000	N/A	70.00	5	
Th	232	209	No Gas	0.145	20.91	31.67	5	
U	238	209	No Gas	0.000	N/A	26.67	5	
Na	23	45	He	0.386	9.23	244969.93	90	
Mg	24	45	He	0.046	17.60	6735.10	90	
Al	27	45	He	0.040	26.89	2580.25	90	
K	39	45	He	0.024	120.55	82814.82	90	
Ca	43	45	He	0.017	118.26	48.67	90	
Ti	47	45	He	0.001	22.87	54.00	5	
V	51	72	He	0.000	N/A	300.01	5	
Cr	52	72	He	-0.001	N/A	1951.82	5	
Mn	55	72	He	0.000	N/A	203.34	5	
Fe	56	72	He	0.025	33.34	72927.18	90	
Co	59	72	He	0.000	N/A	86.67	5	
Ni	60	72	He	0.000	N/A	303.34	5	
Cu	63	72	He	0.000	N/A	293.34	5	
Zn	66	72	He	-0.002	N/A	356.67	5	
As	75	125	He	0.000	48.22	64.33	5	
Sr	88	103	He	0.000	52.78	163.34	5	
Mo	95	103	He	0.001	17.10	793.36	5	
Ag	107	103	He	0.000	27.15	102.22	1	
Cd	111	125	He	0.000	8.11	5.67	5	
Sn	118	103	He	0.000	11.81	73.33	2	
Sb	121	103	He	0.000	56.39	43.33	1	
Ba	137	103	He	0.000	50.36	26.67	2	
Se	78	125	HEHe	0.000	N/A	2.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	481123.85	1.01	417017.506666667	115.37	60	120	
Te (No He)	125	No Gas	8946.26	1.62	8200.24	109.1	60	120	
Bi (No He)	209	No Gas	259672.38	0.97	231432.306666667	112.2	60	120	
Sc	45	He	42725.64	1.55	36540.28	116.93	60	120	
Ge	72	He	30905.47	1.04	26120.5833333333	118.32	60	120	
Rh	103	He	455157.06	0.81	379600.853333333	119.9	60	120	
Te	125	He	2692.50	2.86	2104.61333333333	127.93	60	120	ISTD Failed
Te (HE He)	125	HEHe	4103.95	0.65	3773.85	108.75	60	120	

Sample Report

Sample Name	INSTBLK
File Name	191SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:18:03
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	18.00	5	
B	11	45	No Gas	0.022	3.73	6182.99	5	
Se	82	125	No Gas	0.000	4674.76	-271.72	5	
Tl	205	209	No Gas	0.000	N/A	56.67	5	
Pb	208	209	No Gas	0.000	N/A	70.00	5	
Th	232	209	No Gas	0.181	8.25	38.33	5	
U	238	209	No Gas	0.000	N/A	23.33	5	
Na	23	45	He	0.363	2.41	236189.87	90	
Mg	24	45	He	0.036	23.08	5387.89	90	
Al	27	45	He	0.030	28.35	1965.15	90	
K	39	45	He	0.003	225.74	78712.15	90	
Ca	43	45	He	-0.007	N/A	37.33	90	
Ti	47	45	He	0.001	40.72	34.67	5	
V	51	72	He	0.000	N/A	385.01	5	
Cr	52	72	He	-0.001	N/A	2116.84	5	
Mn	55	72	He	0.000	N/A	170.00	5	
Fe	56	72	He	0.015	50.01	58016.79	90	
Co	59	72	He	0.000	N/A	80.00	5	
Ni	60	72	He	0.000	N/A	276.68	5	
Cu	63	72	He	0.000	N/A	226.67	5	
Zn	66	72	He	-0.002	N/A	386.68	5	
As	75	125	He	0.000	87.40	66.83	5	
Sr	88	103	He	0.000	61.53	180.01	5	
Mo	95	103	He	0.001	23.89	584.46	5	
Ag	107	103	He	0.000	43.36	78.89	1	
Cd	111	125	He	0.000	27.91	6.00	5	
Sn	118	103	He	0.000	157.52	36.67	2	
Sb	121	103	He	0.000	27439.74	16.67	1	
Ba	137	103	He	0.000	165.84	16.67	2	
Se	78	125	HEHe	0.000	N/A	2.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	474130.75	0.65	417017.506666667	113.7	60	120	
Te (No He)	125	No Gas	8718.33	1.58	8200.24	106.32	60	120	
Bi (No He)	209	No Gas	258173.32	0.48	231432.306666667	111.55	60	120	
Sc	45	He	42187.49	2.51	36540.28	115.45	60	120	
Ge	72	He	30698.36	1.47	26120.5833333333	117.53	60	120	
Rh	103	He	449379.34	0.70	379600.853333333	118.38	60	120	
Te	125	He	2623.60	3.31	2104.61333333333	124.66	60	120	ISTD Failed
Te (HE He)	125	HEHe	4118.95	0.96	3773.85	109.14	60	120	

Sample Report

Sample Name	INSTBLK
File Name	192SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq Time	2015-06-01 04:20:18
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	045CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	10.67	5	
B	11	45	No Gas	0.019	3.31	5579.41	5	
Se	82	125	No Gas	0.000	N/A	-284.46	5	
Tl	205	209	No Gas	0.000	N/A	33.33	5	
Pb	208	209	No Gas	0.000	N/A	60.00	5	
Th	232	209	No Gas	0.110	22.97	25.00	5	
U	238	209	No Gas	0.000	N/A	23.33	5	
Na	23	45	He	0.353	7.04	231585.56	90	
Mg	24	45	He	0.029	30.06	4327.51	90	
Al	27	45	He	0.020	32.54	1331.74	90	
K	39	45	He	-0.002	N/A	77103.65	90	
Ca	43	45	He	-0.008	N/A	36.67	90	
Ti	47	45	He	0.000	33.15	22.67	5	
V	51	72	He	0.000	N/A	358.34	5	
Cr	52	72	He	-0.001	N/A	2073.50	5	
Mn	55	72	He	0.000	N/A	183.34	5	
Fe	56	72	He	0.008	93.21	45391.13	90	
Co	59	72	He	0.000	N/A	76.67	5	
Ni	60	72	He	0.000	N/A	326.68	5	
Cu	63	72	He	0.000	N/A	286.68	5	
Zn	66	72	He	-0.002	N/A	440.01	5	
As	75	125	He	0.000	125.98	64.83	5	
Sr	88	103	He	0.000	87.48	210.00	5	
Mo	95	103	He	0.000	35.03	398.90	5	
Ag	107	103	He	0.000	26.54	70.00	1	
Cd	111	125	He	0.000	31.05	5.33	5	
Sn	118	103	He	0.000	51.27	43.33	2	
Sb	121	103	He	0.000	302.79	23.33	1	
Ba	137	103	He	0.000	292.80	10.00	2	
Se	78	125	HEHe	0.000	N/A	2.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	471048.16	0.90	417017.506666667	112.96	60	120	
Te (No He)	125	No Gas	8947.37	1.91	8200.24	109.11	60	120	
Bi (No He)	209	No Gas	259702.20	0.58	231432.306666667	112.22	60	120	
Sc	45	He	41787.32	1.39	36540.28	114.36	60	120	
Ge	72	He	30172.84	1.59	26120.5833333333	115.51	60	120	
Rh	103	He	445632.43	0.67	379600.853333333	117.4	60	120	
Te	125	He	2632.49	0.15	2104.61333333333	125.08	60	120	ISTD Failed
Te (HE He)	125	HEHe	3990.24	0.55	3773.85	105.73	60	120	

Tune Report

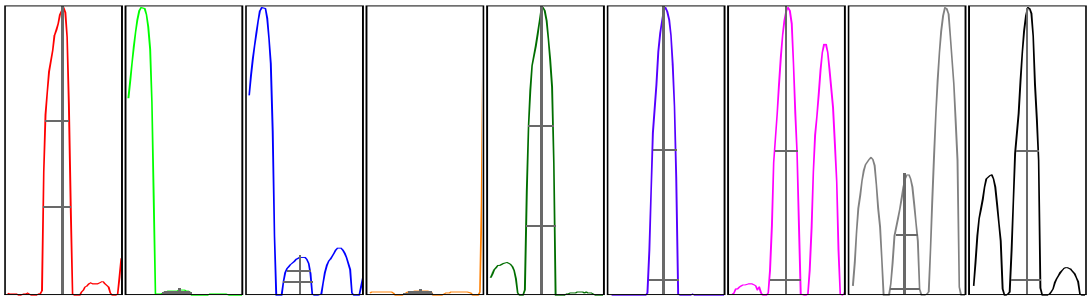
Batch Folder	C:\Agilent\ICPMH\1\DATA\053115ICPMS8.b
Acq. Date-Time	2015-05-31 17:49
Report Comment	I.S. 15D26679; EPA TUNE 15D23558
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	2.83	5.00	
24	2.84	5.00	
25	3.38	5.00	
26	2.41	5.00	
59	1.99	5.00	
115	2.42	5.00	
206	2.46	5.00	
207	1.60	5.00	
208	1.44	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	1342	1445	1388	1384	1422
24	13713	14752	14588	14385	14594
25	1950	2069	2116	2094	2120
26	2305	2419	2421	2371	2453
59	21477	22288	22312	22690	22233
115	26386	27177	27727	28110	27666
206	3655	3810	3889	3868	3852
207	3204	3281	3276	3195	3315
208	7793	7981	8084	8046	7917

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	239.82	9.00	8.9 - 9.1		0.61	0.714	0.850	
24	2446.26	23.90	23.9 - 24.1		0.65	0.760	0.850	
25	325.29	24.90	24.9 - 25.1		0.61	0.724	0.850	
26	402.06	25.90	25.9 - 26.1		0.61	0.727	0.850	
59	3748.70	58.90	58.9 - 59.1		0.62	0.742	0.850	
115	4819.01	114.95	114.9 - 115.1		0.60	0.778	0.850	
206	691.79	206.00	205.9 - 206.1		0.59	0.811	0.850	
207	603.70	206.95	206.9 - 207.1		0.58	0.773	0.850	
208	1445.42	208.00	207.9 - 208.1		0.59	0.781	0.850	

Tune Report

Integration Time [sec]	0.1	**Acquisition Time [sec]**	212.5	**Y Axis**	Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-120 V	Deflect	17.6 V
Omega Lens	9.0 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	190 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:06:01
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	---
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:08:34
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	4.00	50.00
B	11	45	No Gas	195.00	26.77
Tl	205	209	No Gas	40.00	0.00
Pb	208	209	No Gas	26.67	57.28
Th	232	209	No Gas	6.67	173.21
U	238	209	No Gas	6.67	173.21
Na	23	45	He	39359.98	3.07
Mg	24	45	He	293.35	34.32
Al	27	45	He	83.33	19.29
K	39	45	He	69652.66	1.19
Ca	43	45	He	39.33	32.29
Ti	47	45	He	5.67	36.74
V	51	72	He	371.68	13.47
Cr	52	72	He	2790.29	3.17
Mn	55	72	He	120.00	38.19
Fe	56	72	He	8899.56	3.73
Co	59	72	He	70.00	51.51
Ni	60	72	He	356.68	18.67
Cu	63	72	He	193.34	10.77
Zn	66	72	He	270.00	16.97
As	75	125	He	44.00	4.55
Sr	88	103	He	80.00	12.50
Mo	95	103	He	3.33	100.05
Ag	107	103	He	6.66	86.65
Cd	111	125	He	2.00	86.60
Sn	118	103	He	13.33	86.60
Sb	121	103	He	323.34	21.72
Se	78	125	HEHe	1.50	44.10

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	387896.14	1.56
Te (No He)	125	No Gas	8403.69	0.26
Bi (No He)	209	No Gas	264949.46	0.18

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	41129.95	1.30
Ge	72	He	27259.22	2.46
Rh	103	He	411184.38	1.34
Te	125	He	2626.93	1.34
Te (HE He)	125	HEHe	4161.30	2.11

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:11:22
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	298.00	19.42
B	11	45	No Gas	400.01	16.54
Tl	205	209	No Gas	2863.71	7.66
Pb	208	209	No Gas	2793.69	5.79
Th	232	209	No Gas	3758.91	4.30
U	238	209	No Gas	3437.18	7.60
Na	23	45	He	59527.42	2.13
Mg	24	45	He	12092.04	7.89
Al	27	45	He	825.03	8.74
K	39	45	He	83142.63	1.17
Ca	43	45	He	90.67	20.97
Ti	47	45	He	48.67	22.16
V	51	72	He	1656.78	6.86
Cr	52	72	He	4434.04	2.54
Mn	55	72	He	1116.73	7.46
Fe	56	72	He	39915.40	1.67
Co	59	72	He	2393.57	3.79
Ni	60	72	He	1130.07	5.38
Cu	63	72	He	2120.20	11.09
Zn	66	72	He	691.69	1.10
As	75	125	He	327.00	1.21
Sr	88	103	He	1310.09	3.50
Mo	95	103	He	802.25	3.53
Ag	107	103	He	2207.97	3.40
Cd	111	125	He	313.33	5.16
Sn	118	103	He	796.70	4.75
Sb	121	103	He	1250.08	8.00
Ba	137	103	He	340.01	5.88
Se	78	125	HEHe	23.33	3.76

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	383502.43	0.41	387896.14	98.87	60	120	
Te (No He)	125	No Gas	8344.77	2.50	8403.69	99.3	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	255596.46	0.85	264949.456666667	96.47	60	120	
Sc	45	He	40684.33	0.58	41129.9533333333	98.92	60	120	
Ge	72	He	26785.03	0.46	27259.2233333333	98.26	60	120	
Rh	103	He	406029.59	1.18	411184.383333333	98.75	60	120	
Te	125	He	2593.59	0.72	2626.93	98.73	60	120	
Te (HE He)	125	HEHe	4176.30	3.07	4161.3	100.36	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:13:54
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	672.69	4.89
B	11	45	No Gas	591.68	10.90
Tl	205	209	No Gas	5751.36	1.66
Pb	208	209	No Gas	4444.18	4.18
Th	232	209	No Gas	8129.28	0.72
U	238	209	No Gas	7085.40	8.89
Na	23	45	He	80539.58	0.54
Mg	24	45	He	23733.01	0.21
Al	27	45	He	1210.06	9.20
K	39	45	He	97309.86	0.70
Ca	43	45	He	108.67	26.18
Ti	47	45	He	94.00	13.58
V	51	72	He	3060.35	1.30
Cr	52	72	He	6061.31	2.80
Mn	55	72	He	2130.20	3.73
Fe	56	72	He	43158.12	1.56
Co	59	72	He	4874.25	2.88
Ni	60	72	He	1890.15	3.47
Cu	63	72	He	4030.62	4.10
Zn	66	72	He	956.71	3.71
As	75	125	He	606.18	1.07
Sr	88	103	He	2470.25	2.43
Mo	95	103	He	1550.09	4.32
Ag	107	103	He	4470.74	0.27
Cd	111	125	He	676.69	1.84
Sn	118	103	He	1266.75	6.71
Sb	121	103	He	2183.54	2.07
Ba	137	103	He	713.37	4.51
Se	78	125	HEHe	46.50	5.46

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	385606.67	1.13	387896.14	99.41	60	120	
Te (No He)	125	No Gas	8458.17	0.46	8403.69	100.65	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	258035.17	1.24	264949.456666667	97.39	60	120	
Sc	45	He	40693.29	1.28	41129.9533333333	98.94	60	120	
Ge	72	He	27046.62	1.66	27259.2233333333	99.22	60	120	
Rh	103	He	407566.43	0.84	411184.383333333	99.12	60	120	
Te	125	He	2498.02	5.96	2626.93	95.09	60	120	
Te (HE He)	125	HEHe	4070.93	0.95	4161.3	97.83	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:16:25
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3335.05	4.68
B	11	45	No Gas	2241.85	7.86
Se	82	125	No Gas	415.74	6.92
Tl	205	209	No Gas	30281.80	3.17
Pb	208	209	No Gas	23327.69	1.99
Th	232	209	No Gas	40070.20	0.46
U	238	209	No Gas	34840.63	3.66
Na	23	45	He	256400.73	0.73
Mg	24	45	He	121537.35	0.35
Al	27	45	He	7541.98	2.13
K	39	45	He	215489.94	1.45
Ca	43	45	He	478.01	1.51
Ti	47	45	He	481.01	5.10
V	51	72	He	14165.31	2.26
Cr	52	72	He	19765.17	0.65
Mn	55	72	He	9830.16	2.58
Fe	56	72	He	153971.22	1.80
Co	59	72	He	24991.94	1.22
Ni	60	72	He	8509.31	4.90
Cu	63	72	He	21038.88	2.17
Zn	66	72	He	3940.57	2.22
As	75	125	He	2908.46	0.56
Sr	88	103	He	12752.66	3.68
Mo	95	103	He	7695.46	0.82
Ag	107	103	He	22452.50	1.66
Cd	111	125	He	3358.08	1.50
Sn	118	103	He	7211.98	3.97
Sb	121	103	He	11124.65	5.30
Ba	137	103	He	4210.73	6.51
Se	78	125	HEHe	230.75	0.99

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	383972.39	1.31	387896.14	98.99	60	120	
Te (No He)	125	No Gas	8441.48	3.19	8403.69	100.45	60	120	
Bi (No He)	209	No Gas	257135.71	1.24	264949.456666667	97.05	60	120	
Sc	45	He	40899.41	0.50	41129.9533333333	99.44	60	120	
Ge	72	He	26708.24	1.12	27259.2233333333	97.98	60	120	
Rh	103	He	406357.43	0.72	411184.383333333	98.83	60	120	
Te	125	He	2431.34	5.33	2626.93	92.55	60	120	
Te (HE He)	125	HEHe	4113.62	1.23	4161.3	98.85	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:18:56
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	16268.17	0.29
B	11	45	No Gas	10146.85	3.66
Se	82	125	No Gas	2202.43	6.84
Tl	205	209	No Gas	145066.48	0.94
Pb	208	209	No Gas	104311.26	0.63
Th	232	209	No Gas	190794.13	1.04
U	238	209	No Gas	169688.17	1.04
Na	23	45	He	1078595.74	0.63
Mg	24	45	He	573564.96	1.45
Al	27	45	He	26787.68	0.36
K	39	45	He	763354.03	0.37
Ca	43	45	He	1960.14	5.31
Ti	47	45	He	2224.84	1.82
V	51	72	He	64474.21	1.31
Cr	52	72	He	80607.21	0.60
Mn	55	72	He	45859.35	1.29
Fe	56	72	He	676293.95	0.46
Co	59	72	He	117737.12	0.77
Ni	60	72	He	32704.06	2.96
Cu	63	72	He	84680.95	1.52
Zn	66	72	He	15718.69	1.05
As	75	125	He	13795.11	0.68
Sr	88	103	He	60070.58	1.26
Mo	95	103	He	37545.32	1.26
Ag	107	103	He	108332.12	0.54
Cd	111	125	He	15751.85	0.14
Sn	118	103	He	34536.61	0.44
Sb	121	103	He	52070.96	0.73
Ba	137	103	He	16687.05	2.56
Se	78	125	HEHe	1114.37	1.01

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	386845.49	0.77	387896.14	99.73	60	120	
Te (No He)	125	No Gas	8541.56	0.93	8403.69	101.64	60	120	
Bi (No He)	209	No Gas	252285.60	0.75	264949.456666667	95.22	60	120	
Sc	45	He	41116.52	0.84	41129.9533333333	99.97	60	120	
Ge	72	He	26845.13	1.00	27259.2233333333	98.48	60	120	
Rh	103	He	407687.19	1.04	411184.383333333	99.15	60	120	
Te	125	He	2463.57	1.02	2626.93	93.78	60	120	
Te (HE He)	125	HEHe	4246.32	2.10	4161.3	102.04	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:21:28
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	33818.00	1.01
B	11	45	No Gas	21286.89	1.45
Se	82	125	No Gas	4489.66	0.52
Tl	205	209	No Gas	294833.36	1.08
Pb	208	209	No Gas	213114.52	0.70
Th	232	209	No Gas	394884.77	0.43
U	238	209	No Gas	346121.73	0.90
Na	23	45	He	2171997.88	0.60
Mg	24	45	He	1196937.22	0.83
Al	27	45	He	54866.78	2.13
K	39	45	He	1505181.02	1.21
Ca	43	45	He	4208.62	1.98
Ti	47	45	He	4559.38	2.10
V	51	72	He	133590.02	1.10
Cr	52	72	He	163419.71	0.73
Mn	55	72	He	93732.11	0.84
Fe	56	72	He	1381347.38	0.09
Co	59	72	He	241081.76	1.06
Ni	60	72	He	65746.02	1.77
Cu	63	72	He	174090.77	1.01
Zn	66	72	He	32010.62	1.25
As	75	125	He	28381.10	0.45
Sr	88	103	He	124233.48	1.15
Mo	95	103	He	75709.23	0.94
Ag	107	103	He	222026.87	1.02
Cd	111	125	He	32478.83	0.81
Sn	118	103	He	70579.01	1.25
Sb	121	103	He	104622.06	1.02
Ba	137	103	He	35302.42	2.84
Se	78	125	HEHe	2274.43	1.04

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	398776.26	0.66	387896.14	102.8	60	120	
Te (No He)	125	No Gas	8722.78	0.73	8403.69	103.8	60	120	
Bi (No He)	209	No Gas	256964.77	1.13	264949.456666667	96.99	60	120	
Sc	45	He	42402.46	0.90	41129.9533333333	103.09	60	120	
Ge	72	He	27841.46	0.94	27259.2233333333	102.14	60	120	
Rh	103	He	415058.13	0.40	411184.383333333	100.94	60	120	
Te	125	He	2585.81	3.15	2626.93	98.43	60	120	
Te (HE He)	125	HEHe	4324.35	1.58	4161.3	103.92	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:24:13
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	68121.24	0.51
B	11	45	No Gas	42896.42	2.35
Se	82	125	No Gas	9093.85	1.34
Tl	205	209	No Gas	590719.40	0.65
Pb	208	209	No Gas	419255.12	0.42
Th	232	209	No Gas	787988.30	0.61
U	238	209	No Gas	692473.51	0.96
Na	23	45	He	4271623.17	0.86
Mg	24	45	He	2437679.60	1.06
Al	27	45	He	110755.22	1.63
K	39	45	He	2912159.12	0.72
Ca	43	45	He	8356.40	2.60
Ti	47	45	He	9301.30	1.46
V	51	72	He	270028.70	0.73
Cr	52	72	He	322845.70	0.10
Mn	55	72	He	188797.65	0.83
Fe	56	72	He	2800501.00	1.01
Co	59	72	He	477903.09	0.06
Ni	60	72	He	132015.33	1.75
Cu	63	72	He	348011.86	0.54
Zn	66	72	He	62545.14	0.71
As	75	125	He	57093.72	0.37
Sr	88	103	He	249187.53	0.44
Mo	95	103	He	152277.53	0.81
Ag	107	103	He	381593.91	6.38
Cd	111	125	He	65055.83	0.45
Sn	118	103	He	142858.44	0.27
Sb	121	103	He	208578.51	0.37
Ba	137	103	He	71090.43	1.75
Se	78	125	HEHe	4571.15	1.28

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	404693.03	0.31	387896.14	104.33	60	120	
Te (No He)	125	No Gas	8748.36	2.75	8403.69	104.1	60	120	
Bi (No He)	209	No Gas	255544.16	0.73	264949.456666667	96.45	60	120	
Sc	45	He	42978.65	0.44	41129.9533333333	104.49	60	120	
Ge	72	He	28196.60	1.73	27259.2233333333	103.44	60	120	
Rh	103	He	411377.44	1.01	411184.383333333	100.05	60	120	
Te	125	He	2503.58	1.86	2626.93	95.3	60	120	
Te (HE He)	125	HEHe	4259.32	1.00	4161.3	102.36	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:27:00
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.100	0.17	35495.18	0.1	100.14	90	110	
B	11	45	No Gas	0.099	1.38	22184.84	0.1	99.14	90	110	
Se	82	125	No Gas	0.098	5.64	4484.85	0.1	98.28	90	110	
Tl	205	209	No Gas	0.097	0.23	300854.03	0.1	97.37	90	110	
Pb	208	209	No Gas	0.100	0.59	219503.99	0.1	99.66	90	110	
Th	232	209	No Gas	0.097	1.18	397816.26	0.1	96.51	90	110	
U	238	209	No Gas	0.099	0.66	359277.15	0.1	99.18	90	110	
Na	23	45	He	10.302	0.80	2275858.97	10	103.02	90	110	
Mg	24	45	He	10.087	1.36	1251518.50	10	100.87	90	110	
Al	27	45	He	9.950	1.32	562452.11	1	995.01	90	110	ICV Main CR1 Failed
K	39	45	He	10.265	2.58	1568351.70	10	102.65	90	110	
Ca	43	45	He	9.940	1.63	4262.63	10	99.4	90	110	
Ti	47	45	He	0.100	1.71	4728.77	0.1	99.8	90	110	
V	51	72	He	0.098	1.45	137916.72	0.1	98.29	90	110	
Cr	52	72	He	0.099	1.24	167238.66	0.1	98.52	90	110	
Mn	55	72	He	0.098	1.31	96482.76	0.1	98.25	90	110	
Fe	56	72	He	9.490	1.92	13747593.96	1	949.01	90	110	ICV Main CR1 Failed
Co	59	72	He	0.101	0.67	250955.70	0.1	100.61	90	110	
Ni	60	72	He	0.098	0.52	67779.02	0.1	98.37	90	110	
Cu	63	72	He	0.101	1.05	182437.97	0.1	100.6	90	110	
Zn	66	72	He	0.100	0.35	32994.52	0.1	100.38	90	110	
As	75	125	He	0.097	2.54	28993.66	0.1	97.04	90	110	
Sr	88	103	He	0.101	1.50	128871.95	0.1	100.86	90	110	
Mo	95	103	He	0.099	1.18	77315.86	0.1	98.99	90	110	
Ag	107	103	He	0.100	0.57	226952.26	0.1	100.35	90	110	
Cd	111	125	He	0.099	3.22	33608.16	0.1	98.67	90	110	
Sn	118	103	He	0.100	2.12	73292.91	0.1	100.24	90	110	
Sb	121	103	He	0.105	0.42	112691.36	0.1	105	90	110	
Ba	137	103	He	0.102	1.25	37093.79	0.1	101.93	90	110	
Se	78	125	HEHe	0.101	2.07	2343.94	0.1	100.71	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	420495.62	0.58	387896.14	108.4	60	120	
Te (No He)	125	No Gas	8837.30	2.36	8403.69	105.16	60	120	
Bi (No He)	209	No Gas	267733.41	0.28	264949.456666667	101.05	60	120	
Sc	45	He	43817.81	0.65	41129.9533333333	106.54	60	120	
Ge	72	He	29252.03	0.91	27259.2233333333	107.31	60	120	
Rh	103	He	423245.28	1.05	411184.383333333	102.93	60	120	
Te	125	He	2640.27	2.48	2626.93	100.51	60	120	
Te (HE He)	125	HEHe	4357.02	1.58	4161.3	104.7	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:29:49
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	80.52	11.33	0.001	
B	11	45	No Gas	0.003	13.71	898.37	0.02	
Se	82	125	No Gas	0.000	N/A	-64.38	0.001	
Tl	205	209	No Gas	0.000	1.79	220.01	0.001	
Pb	208	209	No Gas	0.000	53.24	133.33	0.001	
Th	232	209	No Gas	0.000	13.48	200.00	0.01	
U	238	209	No Gas	0.000	49.24	53.33	0.01	
Na	23	45	He	-0.014	N/A	37642.03	1	
Mg	24	45	He	0.001	54.77	420.02	1	
Al	27	45	He	0.001	56.37	150.00	0.1	
K	39	45	He	0.024	63.93	75247.16	1	
Ca	43	45	He	-0.021	N/A	32.00	1	
Ti	47	45	He	0.000	434.85	6.67	0.01	
V	51	72	He	0.000	N/A	313.34	0.002	
Cr	52	72	He	0.000	N/A	2603.59	0.001	
Mn	55	72	He	0.000	60.74	166.67	0.002	
Fe	56	72	He	0.001	63.21	10180.40	0.1	
Co	59	72	He	0.000	159.57	113.34	0.001	
Ni	60	72	He	0.000	229.64	380.01	0.001	
Cu	63	72	He	0.000	794.18	203.34	0.002	
Zn	66	72	He	0.000	6.62	365.01	0.01	
As	75	125	He	0.000	42.80	52.67	0.001	
Sr	88	103	He	0.000	179.74	120.00	0.01	
Mo	95	103	He	0.000	32.26	27.78	0.002	
Ag	107	103	He	0.000	17.86	343.34	0.001	
Cd	111	125	He	0.000	11.13	18.33	0.001	
Sn	118	103	He	0.000	144.73	33.33	0.001	
Sb	121	103	He	0.000	27.33	610.03	0.001	
Ba	137	103	He	0.000	99.50	10.00	0.002	
Se	78	125	HEHe	0.000	56.20	3.17	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	405813.73	0.13	387896.14	104.62	60	120	
Te (No He)	125	No Gas	8558.24	1.45	8403.69	101.84	60	120	
Bi (No He)	209	No Gas	263922.49	1.47	264949.456666667	99.61	60	120	
Sc	45	He	42460.49	0.99	41129.9533333333	103.23	60	120	
Ge	72	He	27986.15	0.79	27259.2233333333	102.67	60	120	
Rh	103	He	416857.52	0.76	411184.383333333	101.38	60	120	
Te	125	He	2592.48	2.16	2626.93	98.69	60	120	
Te (HE He)	125	HEHe	4251.66	2.47	4161.3	102.17	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	011LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:32:02
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	415679.47	0.91	387896.14	107.16	60	120	
Te (No He)	125	No Gas	8948.49	1.31	8403.69	106.48	60	120	
Bi (No He)	209	No Gas	268393.35	0.78	264949.456666667	101.3	60	120	
Sc	45	He	43153.53	0.45	41129.9533333333	104.92	60	120	
Ge	72	He	28796.66	0.43	27259.2233333333	105.64	60	120	
Rh	103	He	427713.76	0.60	411184.383333333	104.02	60	120	
Te	125	He	2725.84	2.69	2626.93	103.77	60	120	
Te (HE He)	125	HEHe	4433.04	2.29	4161.3	106.53	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	012ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:34:32
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	100.654	0.52	21778420.51	100	80	120	
Mg	24	45	He	98.027	0.47	12110375.65	100	80	120	
Al	27	45	He	99.038	1.08	5574897.00	100	80	120	
K	39	45	He	97.737	0.79	14242340.62	100	80	120	
Ca	43	45	He	93.729	0.10	39673.58	100	80	120	
Ti	47	45	He	2.036	0.93	95980.12	2	80	120	
Fe	56	72	He	88.861	0.52	134082464.67	100	80	120	
Mo	95	103	He	2.122	0.55	1614349.73	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	416577.01	0.31	387896.14	107.39	60	120	
Te (No He)	125	No Gas	8726.12	0.81	8403.69	103.84	60	120	
Bi (No He)	209	No Gas	265093.14	1.24	264949.456666667	100.05	60	120	
Sc	45	He	43637.13	0.59	41129.9533333333	106.1	60	120	
Ge	72	He	30485.70	0.77	27259.2233333333	111.84	60	120	
Rh	103	He	412248.85	0.73	411184.383333333	100.26	60	120	
Te	125	He	2514.68	2.33	2626.93	95.73	60	120	
Te (HE He)	125	HEHe	4169.96	1.08	4161.3	100.21	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	013ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 09:36:43
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	2.26	6928.28	0.02	80	120	
B	11	45	No Gas	0.022	2.62	5125.92	0.02	80	120	
Se	82	125	No Gas	0.018	2.29	761.75	0.02	80	120	
Tl	205	209	No Gas	0.019	2.14	57860.37	0.02	80	120	
Pb	208	209	No Gas	0.019	0.84	42893.80	0.02	80	120	
U	238	209	No Gas	0.020	1.84	71125.73	0.02	80	120	
Na	23	45	He	98.833	1.44	21603894.68	100	80	120	
Mg	24	45	He	94.851	1.18	11838241.49	100	80	120	
Al	27	45	He	96.694	2.13	5498289.50	100	80	120	
K	39	45	He	95.985	1.36	14131087.71	100	80	120	
Ca	43	45	He	93.860	1.47	40136.12	100	80	120	
Ti	47	45	He	1.985	1.58	94523.52	2	80	120	
V	51	72	He	0.018	1.73	27155.44	0.02	80	120	
Cr	52	72	He	0.019	1.25	36205.08	0.02	80	120	
Mn	55	72	He	0.019	0.76	19213.00	0.02	80	120	
Fe	56	72	He	87.896	1.72	132861641.35	100	80	120	
Co	59	72	He	0.019	2.41	48698.98	0.02	80	120	
Ni	60	72	He	0.018	1.67	13483.18	0.02	80	120	
Cu	63	72	He	0.019	3.23	35941.67	0.02	80	120	
Zn	66	72	He	0.020	1.64	7133.49	0.02	80	120	
As	75	125	He	0.019	5.19	5768.16	0.02	80	120	
Sr	88	103	He	0.021	1.29	26334.72	0.02	80	120	
Mo	95	103	He	2.060	0.69	1582819.69	2	80	120	
Ag	107	103	He	0.019	1.05	43376.87	0.02	80	120	
Cd	111	125	He	0.019	6.35	6671.93	0.02	80	120	
Sn	118	103	He	0.020	0.88	14497.82	0.02	80	120	
Sb	121	103	He	0.022	1.03	23052.73	0.02	80	120	
Ba	137	103	He	0.021	3.12	7448.78	0.02	80	120	
Se	78	125	HEHe	0.020	0.85	452.51	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	431554.92	0.63	387896.14	111.26	60	120	
Te (No He)	125	No Gas	8886.21	0.98	8403.69	105.74	60	120	
Bi (No He)	209	No Gas	269547.11	0.54	264949.456666667	101.74	60	120	
Sc	45	He	44086.30	0.77	41129.9533333333	107.19	60	120	
Ge	72	He	30543.63	1.29	27259.2233333333	112.05	60	120	
Rh	103	He	416379.24	0.58	411184.383333333	101.26	60	120	
Te	125	He	2675.83	5.66	2626.93	101.86	60	120	
Te (HE He)	125	HEHe	4243.65	2.32	4161.3	101.98	60	120	

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	072CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 14:48:14
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	072CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	5.33	21.65
B	11	45	No Gas	566.68	9.01
Tl	205	209	No Gas	20.00	100.00
Pb	208	209	No Gas	56.67	10.19
Th	232	209	No Gas	16.67	34.64
U	238	209	No Gas	10.00	100.00
Na	23	45	He	64421.10	0.19
Mg	24	45	He	253.34	37.31
Al	27	45	He	105.00	19.05
K	39	45	He	85041.18	0.87
Ca	43	45	He	38.67	31.60
Ti	47	45	He	6.00	16.67
V	51	72	He	686.69	9.28
Cr	52	72	He	2030.16	4.70
Mn	55	72	He	120.00	46.40
Fe	56	72	He	12061.91	4.03
Co	59	72	He	70.00	42.86
Ni	60	72	He	396.68	9.55
Cu	63	72	He	253.34	17.80
Zn	66	72	He	345.01	11.32
As	75	125	He	64.50	10.17
Sr	88	103	He	106.67	27.06
Mo	95	103	He	6.67	132.33
Ag	107	103	He	22.22	37.76
Cd	111	125	He	1.67	69.28
Sn	118	103	He	56.67	50.94
Sb	121	103	He	236.68	19.97
Ba	137	103	He	10.00	173.21
Se	78	125	HEHe	2.33	64.58

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	452090.57	0.31
Te (No He)	125	No Gas	9807.96	1.16

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	309779.14	1.45
Sc	45	He	46842.58	1.00
Ge	72	He	31731.76	1.06
Rh	103	He	463058.66	1.11
Te	125	He	2954.78	4.33
Te (HE He)	125	HEHe	4654.78	1.46

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	073CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 14:50:45
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	10.67	10.83
B	11	45	No Gas	555.01	17.40
Tl	205	209	No Gas	20.00	100.00
Pb	208	209	No Gas	43.33	26.65
Th	232	209	No Gas	18.33	41.66
U	238	209	No Gas	20.00	100.00
Na	23	45	He	63530.17	0.95
Mg	24	45	He	300.01	33.33
Al	27	45	He	140.00	6.19
K	39	45	He	83981.00	1.58
Ca	43	45	He	36.00	20.03
Ti	47	45	He	8.33	48.50
V	51	72	He	671.69	10.11
Cr	52	72	He	2035.15	3.86
Mn	55	72	He	123.33	12.39
Fe	56	72	He	12322.11	3.18
Co	59	72	He	46.67	53.93
Ni	60	72	He	406.68	7.10
Cu	63	72	He	230.01	19.93
Zn	66	72	He	315.01	5.72
As	75	125	He	61.50	5.33
Sr	88	103	He	133.33	15.61
Mo	95	103	He	4.44	43.40
Ag	107	103	He	23.33	0.00
Cd	111	125	He	3.00	57.74
Sn	118	103	He	46.67	81.13
Sb	121	103	He	270.01	18.52
Ba	137	103	He	3.33	173.21
Se	78	125	HEHe	3.42	15.23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	443297.54	1.32
Te (No He)	125	No Gas	9495.51	2.85

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	307097.76	0.74
Sc	45	He	45886.23	0.28
Ge	72	He	31012.34	0.39
Rh	103	He	462839.01	0.69
Te	125	He	2844.75	2.42
Te (HE He)	125	HEHe	4594.10	1.46

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	074CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 14:53:31
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	432.68	5.51
B	11	45	No Gas	838.37	7.92
Tl	205	209	No Gas	3670.58	0.47
Pb	208	209	No Gas	3790.61	4.25
Th	232	209	No Gas	4844.28	2.12
U	238	209	No Gas	4387.48	3.64
Na	23	45	He	89369.76	0.85
Mg	24	45	He	14627.69	3.20
Al	27	45	He	813.37	8.70
K	39	45	He	101028.36	2.23
Ca	43	45	He	100.67	8.96
Ti	47	45	He	62.67	22.13
V	51	72	He	2326.87	1.30
Cr	52	72	He	3965.58	4.23
Mn	55	72	He	1430.09	4.37
Fe	56	72	He	48414.50	1.16
Co	59	72	He	2887.02	5.53
Ni	60	72	He	1370.09	2.53
Cu	63	72	He	2290.22	5.37
Zn	66	72	He	803.36	4.05
As	75	125	He	420.51	5.96
Sr	88	103	He	1606.79	2.00
Mo	95	103	He	962.26	14.61
Ag	107	103	He	2562.47	4.26
Cd	111	125	He	412.34	1.61
Sn	118	103	He	976.72	6.00
Sb	121	103	He	1510.12	8.03
Ba	137	103	He	520.02	10.71
Se	78	125	HEHe	29.25	9.52

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	452360.32	1.12	443297.543333333	102.04	60	120	
Te (No He)	125	No Gas	9431.03	1.65	9495.50666666667	99.32	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	307052.31	0.82	307097.756666667	99.99	60	120	
Sc	45	He	47549.41	1.10	45886.2333333333	103.62	60	120	
Ge	72	He	31796.32	1.93	31012.3366666667	102.53	60	120	
Rh	103	He	467947.36	0.62	462839.006666667	101.1	60	120	
Te	125	He	2865.87	6.37	2844.75	100.74	60	120	
Te (HE He)	125	HEHe	4706.81	1.53	4594.09666666667	102.45	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	075CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 14:56:02
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	868.70	2.54
B	11	45	No Gas	1058.38	4.13
Se	82	125	No Gas	11.74	470.24
Tl	205	209	No Gas	7395.52	0.48
Pb	208	209	No Gas	5631.32	0.62
Th	232	209	No Gas	10082.34	1.54
U	238	209	No Gas	8869.82	0.82
Na	23	45	He	115166.24	1.22
Mg	24	45	He	29523.86	2.84
Al	27	45	He	1446.75	3.21
K	39	45	He	121086.34	0.47
Ca	43	45	He	132.67	10.04
Ti	47	45	He	123.67	5.14
V	51	72	He	3937.23	5.26
Cr	52	72	He	6016.30	2.96
Mn	55	72	He	2500.25	4.00
Fe	56	72	He	51217.37	0.79
Co	59	72	He	5651.20	2.85
Ni	60	72	He	2136.86	4.04
Cu	63	72	He	4800.88	5.78
Zn	66	72	He	1250.06	4.33
As	75	125	He	770.52	2.21
Sr	88	103	He	3190.41	6.67
Mo	95	103	He	1881.25	4.59
Ag	107	103	He	5388.84	1.65
Cd	111	125	He	792.02	4.34
Sn	118	103	He	1836.82	6.90
Sb	121	103	He	2747.00	4.58
Ba	137	103	He	836.71	20.88
Se	78	125	HEHe	54.00	3.50

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	451924.52	1.03	443297.543333333	101.95	60	120	
Te (No He)	125	No Gas	9864.65	1.69	9495.50666666667	103.89	60	120	
Bi (No He)	209	No Gas	311337.00	0.74	307097.756666667	101.38	60	120	
Sc	45	He	46986.41	0.54	45886.2333333333	102.4	60	120	
Ge	72	He	31777.39	1.30	31012.3366666667	102.47	60	120	
Rh	103	He	467366.59	0.78	462839.006666667	100.98	60	120	
Te	125	He	2959.23	2.03	2844.75	104.02	60	120	
Te (HE He)	125	HEHe	4702.80	1.20	4594.09666666667	102.37	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	076CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 14:58:32
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	4189.26	1.90
B	11	45	No Gas	3248.71	4.87
Se	82	125	No Gas	528.55	13.07
Tl	205	209	No Gas	38282.68	0.24
Pb	208	209	No Gas	29282.94	3.28
Th	232	209	No Gas	50441.21	0.68
U	238	209	No Gas	44369.75	0.56
Na	23	45	He	327317.82	0.48
Mg	24	45	He	144347.15	0.53
Al	27	45	He	8984.46	1.23
K	39	45	He	260845.26	1.75
Ca	43	45	He	532.68	16.26
Ti	47	45	He	587.68	7.13
V	51	72	He	17005.01	1.00
Cr	52	72	He	22579.26	2.76
Mn	55	72	He	11604.86	1.89
Fe	56	72	He	181732.05	0.60
Co	59	72	He	29269.92	1.79
Ni	60	72	He	9590.03	1.06
Cu	63	72	He	24721.66	2.06
Zn	66	72	He	4814.18	4.16
As	75	125	He	3581.45	0.79
Sr	88	103	He	15752.33	1.28
Mo	95	103	He	9317.55	1.58
Ag	107	103	He	27411.22	1.47
Cd	111	125	He	4117.61	1.16
Sn	118	103	He	9189.86	2.77
Sb	121	103	He	13496.86	2.83
Ba	137	103	He	4930.98	3.70
Se	78	125	HEHe	272.83	2.70

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	454829.31	0.30	443297.543333333	102.6	60	120	
Te (No He)	125	No Gas	10172.65	2.84	9495.50666666667	107.13	60	120	
Bi (No He)	209	No Gas	308901.91	0.29	307097.756666667	100.59	60	120	
Sc	45	He	47344.19	1.51	45886.2333333333	103.18	60	120	
Ge	72	He	32024.60	0.24	31012.3366666667	103.26	60	120	
Rh	103	He	472436.05	1.14	462839.006666667	102.07	60	120	
Te	125	He	2982.56	6.62	2844.75	104.84	60	120	
Te (HE He)	125	HEHe	4798.83	1.01	4594.09666666667	104.46	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	077CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:01:01
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	20743.00	1.78
B	11	45	No Gas	13789.81	2.58
Se	82	125	No Gas	2594.10	3.52
Tl	205	209	No Gas	187371.34	0.92
Pb	208	209	No Gas	135964.43	1.24
Th	232	209	No Gas	247753.17	0.65
U	238	209	No Gas	218690.68	1.14
Na	23	45	He	1345503.52	1.52
Mg	24	45	He	711002.25	1.57
Al	27	45	He	32459.06	0.70
K	39	45	He	925817.51	1.26
Ca	43	45	He	2441.55	1.43
Ti	47	45	He	2699.25	2.83
V	51	72	He	80886.92	0.68
Cr	52	72	He	95761.44	1.40
Mn	55	72	He	55422.52	1.08
Fe	56	72	He	801269.29	0.11
Co	59	72	He	141604.52	1.54
Ni	60	72	He	38297.69	1.24
Cu	63	72	He	101539.06	1.90
Zn	66	72	He	18890.82	1.22
As	75	125	He	16930.63	0.67
Sr	88	103	He	73701.10	2.79
Mo	95	103	He	45558.63	0.62
Ag	107	103	He	132863.67	1.02
Cd	111	125	He	19759.23	0.96
Sn	118	103	He	43571.89	1.46
Sb	121	103	He	65943.01	0.82
Ba	137	103	He	21680.79	1.27
Se	78	125	HEHe	1332.23	1.65

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	460930.93	0.08	443297.543333333	103.98	60	120	
Te (No He)	125	No Gas	10189.35	1.98	9495.50666666667	107.31	60	120	
Bi (No He)	209	No Gas	317973.26	0.29	307097.756666667	103.54	60	120	
Sc	45	He	48339.67	0.98	45886.2333333333	105.35	60	120	
Ge	72	He	32429.96	0.07	31012.3366666667	104.57	60	120	
Rh	103	He	479618.85	0.72	462839.006666667	103.63	60	120	
Te	125	He	2896.99	2.20	2844.75	101.84	60	120	
Te (HE He)	125	HEHe	4752.82	2.49	4594.09666666667	103.45	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	078CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:03:33
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	42576.84	0.30
B	11	45	No Gas	27613.88	3.81
Se	82	125	No Gas	5398.50	1.30
Tl	205	209	No Gas	386476.64	0.29
Pb	208	209	No Gas	278032.38	0.30
Th	232	209	No Gas	515286.53	0.50
U	238	209	No Gas	450800.29	1.21
Na	23	45	He	2699557.25	1.05
Mg	24	45	He	1478686.54	1.66
Al	27	45	He	65700.25	1.55
K	39	45	He	1786320.80	0.64
Ca	43	45	He	4870.83	3.54
Ti	47	45	He	5458.69	1.02
V	51	72	He	161219.38	0.26
Cr	52	72	He	191581.73	0.31
Mn	55	72	He	111096.70	1.51
Fe	56	72	He	1640233.62	0.70
Co	59	72	He	287308.13	0.92
Ni	60	72	He	76237.35	0.08
Cu	63	72	He	203135.33	0.52
Zn	66	72	He	37956.71	2.18
As	75	125	He	34228.62	0.24
Sr	88	103	He	151647.58	0.92
Mo	95	103	He	90968.34	0.53
Ag	107	103	He	270083.94	1.10
Cd	111	125	He	40382.26	0.36
Sn	118	103	He	88661.71	0.81
Sb	121	103	He	133008.05	1.07
Ba	137	103	He	44388.75	1.17
Se	78	125	HEHe	2666.42	2.28

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	470928.75	0.72	443297.543333333	106.23	60	120	
Te (No He)	125	No Gas	10188.23	2.79	9495.50666666667	107.3	60	120	
Bi (No He)	209	No Gas	322507.15	0.67	307097.756666667	105.02	60	120	
Sc	45	He	48018.73	0.40	45886.2333333333	104.65	60	120	
Ge	72	He	32721.70	0.61	31012.3366666667	105.51	60	120	
Rh	103	He	480154.47	0.34	462839.006666667	103.74	60	120	
Te	125	He	2975.89	4.20	2844.75	104.61	60	120	
Te (HE He)	125	HEHe	4899.87	3.23	4594.09666666667	106.66	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	079CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:06:20
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	86831.74	0.88
B	11	45	No Gas	55271.95	2.64
Se	82	125	No Gas	10801.72	1.78
Tl	205	209	No Gas	777012.93	0.76
Pb	208	209	No Gas	556332.46	0.87
Th	232	209	No Gas	1044910.32	0.26
U	238	209	No Gas	907873.16	0.52
Na	23	45	He	5175338.05	1.09
Mg	24	45	He	2884624.54	0.73
Al	27	45	He	129409.54	1.48
K	39	45	He	3409739.43	0.72
Ca	43	45	He	9802.63	1.70
Ti	47	45	He	10853.03	0.18
V	51	72	He	321127.91	0.71
Cr	52	72	He	377765.11	0.42
Mn	55	72	He	219641.45	0.38
Fe	56	72	He	3229037.66	0.66
Co	59	72	He	562336.18	0.37
Ni	60	72	He	150239.19	1.33
Cu	63	72	He	402253.05	0.29
Zn	66	72	He	74382.77	0.26
As	75	125	He	68021.67	0.51
Sr	88	103	He	298554.37	0.61
Mo	95	103	He	182036.76	0.12
Ag	107	103	He	463670.52	3.16
Cd	111	125	He	80291.44	0.31
Sn	118	103	He	178028.90	0.62
Sb	121	103	He	258757.44	0.41
Ba	137	103	He	88772.48	0.49
Se	78	125	HEHe	5315.98	0.11

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	473043.00	1.05	443297.543333333	106.71	60	120	
Te (No He)	125	No Gas	10240.48	2.18	9495.50666666667	107.85	60	120	
Bi (No He)	209	No Gas	329310.74	1.28	307097.756666667	107.23	60	120	
Sc	45	He	48252.70	1.01	45886.2333333333	105.16	60	120	
Ge	72	He	33609.27	0.48	31012.3366666667	108.37	60	120	
Rh	103	He	483950.27	1.02	462839.006666667	104.56	60	120	
Te	125	He	3094.80	4.25	2844.75	108.79	60	120	
Te (HE He)	125	HEHe	4889.53	1.64	4594.09666666667	106.43	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	080_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:08:51
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	081_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:15:57
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.101	1.42	43807.09	0.1	101.16	90	110	
B	11	45	No Gas	0.099	3.00	27670.64	0.1	99.1	90	110	
Se	82	125	No Gas	0.105	3.42	5563.83	0.1	104.73	90	110	
Tl	205	209	No Gas	0.103	0.61	384298.00	0.1	102.6	90	110	
Pb	208	209	No Gas	0.102	0.47	274930.97	0.1	102.34	90	110	
Th	232	209	No Gas	0.000	30.92	115.00	0.1	0.02	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.101	1.11	442564.29	0.1	101.16	90	110	
Na	23	45	He	10.271	1.23	2717591.73	10	102.71	90	110	
Mg	24	45	He	10.345	0.99	1504985.55	10	103.45	90	110	
Al	27	45	He	1.029	1.49	67163.75	1	102.89	90	110	
K	39	45	He	10.452	1.62	1840409.24	10	104.52	90	110	
Ca	43	45	He	10.340	3.05	5095.57	10	103.4	90	110	
Ti	47	45	He	0.101	1.22	5537.73	0.1	101.45	90	110	
V	51	72	He	0.102	1.03	163519.93	0.1	101.77	90	110	
Cr	52	72	He	0.103	1.88	194960.10	0.1	102.68	90	110	
Mn	55	72	He	0.103	1.66	113235.86	0.1	102.98	90	110	
Fe	56	72	He	1.016	1.90	1646266.85	1	101.61	90	110	
Co	59	72	He	0.102	1.69	288972.85	0.1	102.5	90	110	
Ni	60	72	He	0.104	1.63	78609.82	0.1	104.22	90	110	
Cu	63	72	He	0.103	0.83	206497.90	0.1	102.53	90	110	
Zn	66	72	He	0.103	1.08	38668.62	0.1	103.34	90	110	
As	75	125	He	0.102	0.88	34805.18	0.1	102.15	90	110	
Sr	88	103	He	0.102	1.25	152444.58	0.1	102.37	90	110	
Mo	95	103	He	0.102	0.73	91967.23	0.1	101.57	90	110	
Ag	107	103	He	0.101	0.83	272627.55	0.1	101.17	90	110	
Cd	111	125	He	0.102	1.36	40783.09	0.1	101.55	90	110	
Sn	118	103	He	0.102	0.97	90147.22	0.1	101.97	90	110	
Sb	121	103	He	0.103	1.57	133577.92	0.1	103.07	90	110	
Ba	137	103	He	0.104	1.48	45890.12	0.1	104.02	90	110	
Se	78	125	HEHe	0.105	1.84	2741.93	0.1	105.07	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	473562.59	0.34	443297.543333333	106.83	60	120	
Te (No He)	125	No Gas	10145.99	0.25	9495.50666666667	106.85	60	120	
Bi (No He)	209	No Gas	316517.42	0.76	307097.756666667	103.07	60	120	
Sc	45	He	48419.98	0.43	45886.2333333333	105.52	60	120	
Ge	72	He	33314.18	1.27	31012.3366666667	107.42	60	120	
Rh	103	He	480440.47	1.08	462839.006666667	103.8	60	120	
Te	125	He	3058.13	1.46	2844.75	107.5	60	120	
Te (HE He)	125	HEHe	4790.50	1.75	4594.09666666667	104.28	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	082_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:20:27
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	6.00	0.001	
B	11	45	No Gas	0.002	31.44	1021.71	0.02	
Se	82	125	No Gas	0.000	394.33	-108.24	0.001	
Tl	205	209	No Gas	0.000	103.80	66.67	0.001	
Pb	208	209	No Gas	0.000	72.66	156.67	0.001	
Th	232	209	No Gas	0.000	N/A	16.67	0.01	
U	238	209	No Gas	0.000	90.97	50.00	0.01	
Na	23	45	He	-0.012	N/A	61990.78	1	
Mg	24	45	He	0.000	N/A	306.68	1	
Al	27	45	He	0.000	4932.52	143.33	0.1	
K	39	45	He	-0.002	N/A	85617.53	1	
Ca	43	45	He	-0.010	N/A	32.00	1	
Ti	47	45	He	0.000	1190.86	9.00	0.01	
V	51	72	He	0.000	N/A	615.02	0.002	
Cr	52	72	He	0.000	N/A	2101.84	0.001	
Mn	55	72	He	0.000	138.30	170.00	0.002	
Fe	56	72	He	0.004	6.54	18839.16	0.1	
Co	59	72	He	0.000	459.98	53.33	0.001	
Ni	60	72	He	0.000	N/A	266.68	0.001	
Cu	63	72	He	0.000	N/A	216.67	0.002	
Zn	66	72	He	0.000	66.80	418.34	0.01	
As	75	125	He	0.000	44.47	71.50	0.001	
Sr	88	103	He	0.000	N/A	123.33	0.01	
Mo	95	103	He	0.000	63.38	15.55	0.002	
Ag	107	103	He	0.000	24.62	150.00	0.001	
Cd	111	125	He	0.000	55.95	6.00	0.001	
Sn	118	103	He	0.000	80.49	80.00	0.001	
Sb	121	103	He	0.000	18.29	576.69	0.001	
Ba	137	103	He	0.000	151.75	10.00	0.002	
Se	78	125	HEHe	0.000	N/A	3.17	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	464655.07	1.18	443297.543333333	104.82	60	120	
Te (No He)	125	No Gas	9685.65	1.71	9495.50666666667	102	60	120	
Bi (No He)	209	No Gas	322939.21	0.30	307097.756666667	105.16	60	120	
Sc	45	He	46945.32	1.14	45886.2333333333	102.31	60	120	
Ge	72	He	32366.46	1.43	31012.3366666667	104.37	60	120	
Rh	103	He	472112.57	0.51	462839.006666667	102	60	120	
Te	125	He	2793.63	3.90	2844.75	98.2	60	120	
Te (HE He)	125	HEHe	4700.14	2.33	4594.09666666667	102.31	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	084ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:25:34
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	100.505	3.03	24991357.96	100	80	120	
Mg	24	45	He	98.394	3.52	13753429.79	100	80	120	
Al	27	45	He	99.701	3.38	6241156.16	100	80	120	
K	39	45	He	100.321	2.26	16245495.18	100	80	120	
Ca	43	45	He	97.262	1.97	45756.59	100	80	120	
Ti	47	45	He	2.033	1.44	106492.73	2	80	120	
Fe	56	72	He	96.652	1.13	150823734.42	100	80	120	
Mo	95	103	He	2.172	0.93	1843235.20	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	484233.69	1.32	443297.543333333	109.23	60	120	
Te (No He)	125	No Gas	10059.23	1.38	9495.50666666667	105.94	60	120	
Bi (No He)	209	No Gas	335198.85	1.53	307097.756666667	109.15	60	120	
Sc	45	He	46545.01	1.47	45886.2333333333	101.44	60	120	
Ge	72	He	32338.60	0.55	31012.3366666667	104.28	60	120	
Rh	103	He	450413.42	1.70	462839.006666667	97.32	60	120	
Te	125	He	2882.54	3.64	2844.75	101.33	60	120	
Te (HE He)	125	HEHe	4497.73	1.91	4594.09666666667	97.9	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	085ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:27:50
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	0.78	7397.18	0.02	80	120	
B	11	45	No Gas	0.020	3.88	5549.41	0.02	80	120	
Se	82	125	No Gas	0.021	6.19	925.23	0.02	80	120	
Tl	205	209	No Gas	0.020	3.52	66782.46	0.02	80	120	
Pb	208	209	No Gas	0.020	2.65	48831.01	0.02	80	120	
U	238	209	No Gas	0.020	1.95	80590.75	0.02	80	120	
Na	23	45	He	98.512	2.15	23385633.82	100	80	120	
Mg	24	45	He	96.594	2.40	12889787.73	100	80	120	
Al	27	45	He	97.732	2.52	5840030.12	100	80	120	
K	39	45	He	97.574	3.03	15083890.19	100	80	120	
Ca	43	45	He	95.033	2.48	42674.00	100	80	120	
Ti	47	45	He	1.990	1.71	99530.79	2	80	120	
V	51	72	He	0.020	3.08	30016.05	0.02	80	120	
Cr	52	72	He	0.021	1.71	38001.34	0.02	80	120	
Mn	55	72	He	0.021	0.80	20945.41	0.02	80	120	
Fe	56	72	He	96.616	0.54	143383514.53	100	80	120	
Co	59	72	He	0.021	1.52	53468.98	0.02	80	120	
Ni	60	72	He	0.021	4.16	14801.21	0.02	80	120	
Cu	63	72	He	0.021	0.66	38835.84	0.02	80	120	
Zn	66	72	He	0.021	0.82	7353.59	0.02	80	120	
As	75	125	He	0.021	3.19	6352.91	0.02	80	120	
Sr	88	103	He	0.022	3.27	28809.57	0.02	80	120	
Mo	95	103	He	2.145	1.74	1741514.06	2	80	120	
Ag	107	103	He	0.020	0.57	47757.69	0.02	80	120	
Cd	111	125	He	0.021	1.88	7332.26	0.02	80	120	
Sn	118	103	He	0.020	1.59	16219.68	0.02	80	120	
Sb	121	103	He	0.022	2.89	25436.99	0.02	80	120	
Ba	137	103	He	0.022	4.08	8526.12	0.02	80	120	
Se	78	125	HEHe	0.021	1.16	488.59	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	435186.93	1.34	443297.543333333	98.17	60	120	
Te (No He)	125	No Gas	9201.98	1.09	9495.50666666667	96.91	60	120	
Bi (No He)	209	No Gas	286641.51	1.17	307097.756666667	93.34	60	120	
Sc	45	He	44433.01	1.91	45886.2333333333	96.83	60	120	
Ge	72	He	30756.29	0.53	31012.3366666667	99.17	60	120	
Rh	103	He	430799.24	1.21	462839.006666667	93.08	60	120	
Te	125	He	2666.94	3.23	2844.75	93.75	60	120	
Te (HE He)	125	HEHe	4294.34	0.25	4594.09666666667	93.48	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	087_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:33:25
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.090	1.71	33801.34	0.1	89.59	90	110	CCV Main CR1 Failed
B	11	45	No Gas	0.090	2.02	21947.88	0.1	90.04	90	110	
Se	82	125	No Gas	0.100	2.47	4645.54	0.1	100.3	90	110	
Tl	205	209	No Gas	0.099	0.96	320390.27	0.1	99.23	90	110	
Pb	208	209	No Gas	0.099	1.82	230287.93	0.1	99.42	90	110	
Th	232	209	No Gas	0.099	1.36	427406.19	0.1	98.67	90	110	
U	238	209	No Gas	0.099	1.11	372975.91	0.1	98.92	90	110	
Na	23	45	He	10.118	2.21	2458343.40	10	101.18	90	110	
Mg	24	45	He	10.048	2.72	1341972.38	10	100.48	90	110	
Al	27	45	He	0.989	0.84	59238.39	1	98.86	90	110	
K	39	45	He	10.244	2.72	1657468.94	10	102.44	90	110	
Ca	43	45	He	9.912	1.32	4484.04	10	99.12	90	110	
Ti	47	45	He	0.099	1.57	4971.51	0.1	99.23	90	110	
V	51	72	He	0.101	1.02	150428.10	0.1	101.39	90	110	
Cr	52	72	He	0.102	1.96	178812.83	0.1	101.99	90	110	
Mn	55	72	He	0.101	1.71	102369.44	0.1	100.83	90	110	
Fe	56	72	He	1.015	2.40	1518984.87	1	101.55	90	110	
Co	59	72	He	0.102	0.82	265597.33	0.1	102.02	90	110	
Ni	60	72	He	0.104	1.08	72464.62	0.1	104.04	90	110	
Cu	63	72	He	0.102	1.33	189992.83	0.1	102.16	90	110	
Zn	66	72	He	0.102	1.14	35396.73	0.1	102.44	90	110	
As	75	125	He	0.106	0.38	32259.78	0.1	105.96	90	110	
Sr	88	103	He	0.101	0.92	139243.28	0.1	100.88	90	110	
Mo	95	103	He	0.101	1.43	84526.75	0.1	100.73	90	110	
Ag	107	103	He	0.099	0.53	247973.41	0.1	99.27	90	110	
Cd	111	125	He	0.103	1.50	37066.53	0.1	103.28	90	110	
Sn	118	103	He	0.100	1.41	81843.56	0.1	99.87	90	110	
Sb	121	103	He	0.101	1.49	121511.90	0.1	101.14	90	110	
Ba	137	103	He	0.099	1.13	40580.29	0.1	99.26	90	110	
Se	78	125	HEHe	0.102	1.53	2532.22	0.1	102.44	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	412701.10	4.66	443297.543333333	93.1	60	120	
Te (No He)	125	No Gas	8851.75	3.55	9495.50666666667	93.22	60	120	
Bi (No He)	209	No Gas	272829.63	4.46	307097.756666667	88.84	60	120	
Sc	45	He	44441.78	1.51	45886.2333333333	96.85	60	120	
Ge	72	He	30758.51	1.58	31012.3366666667	99.18	60	120	
Rh	103	He	445288.83	1.64	462839.006666667	96.21	60	120	
Te	125	He	2732.51	1.07	2844.75	96.05	60	120	
Te (HE He)	125	HEHe	4536.41	0.69	4594.09666666667	98.74	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	088_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:37:37
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	6.67	0.001	
B	11	45	No Gas	0.002	15.37	918.37	0.02	
Se	82	125	No Gas	0.000	N/A	-121.66	0.001	
Tl	205	209	No Gas	0.000	35.64	53.33	0.001	
Pb	208	209	No Gas	0.000	28.46	100.00	0.001	
Th	232	209	No Gas	0.000	44.53	75.00	0.01	
U	238	209	No Gas	0.000	N/A	16.67	0.01	
Na	23	45	He	0.004	131.43	62090.69	1	
Mg	24	45	He	0.000	394.64	306.68	1	
Al	27	45	He	0.000	69.37	146.67	0.1	
K	39	45	He	-0.037	N/A	75099.61	1	
Ca	43	45	He	0.011	152.88	39.33	1	
Ti	47	45	He	0.000	N/A	6.00	0.01	
V	51	72	He	0.000	N/A	210.00	0.002	
Cr	52	72	He	0.000	185.41	2011.82	0.001	
Mn	55	72	He	0.000	24.67	183.33	0.002	
Fe	56	72	He	0.004	1.92	18348.54	0.1	
Co	59	72	He	0.000	0.57	80.00	0.001	
Ni	60	72	He	0.000	N/A	263.34	0.001	
Cu	63	72	He	0.000	12533.82	223.34	0.002	
Zn	66	72	He	0.000	185.02	333.34	0.01	
As	75	125	He	0.000	N/A	49.00	0.001	
Sr	88	103	He	0.000	N/A	103.33	0.01	
Mo	95	103	He	0.000	14.25	32.22	0.002	
Ag	107	103	He	0.000	30.39	95.55	0.001	
Cd	111	125	He	0.000	56.34	5.33	0.001	
Sn	118	103	He	0.000	46.84	76.67	0.001	
Sb	121	103	He	0.000	51.32	370.02	0.001	
Ba	137	103	He	0.000	167.32	6.67	0.002	
Se	78	125	HEHe	0.000	N/A	2.42	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	424778.38	0.72	443297.543333333	95.82	60	120	
Te (No He)	125	No Gas	9319.82	0.78	9495.50666666667	98.15	60	120	
Bi (No He)	209	No Gas	289044.19	1.67	307097.756666667	94.12	60	120	
Sc	45	He	44159.95	0.70	45886.2333333333	96.24	60	120	
Ge	72	He	30059.26	0.25	31012.3366666667	96.93	60	120	
Rh	103	He	446019.95	0.79	462839.006666667	96.37	60	120	
Te	125	He	2796.97	4.62	2844.75	98.32	60	120	
Te (HE He)	125	HEHe	4441.72	1.24	4594.09666666667	96.68	60	120	

Sample Report

Sample Name	BLANK WG791805
File Name	089SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:40:22
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	6.67	5	
B	11	45	No Gas	0.002	10.00	850.03	5	
Se	82	125	No Gas	0.000	N/A	-112.42	5	
Tl	205	209	No Gas	0.000	61.93	66.67	5	
Pb	208	209	No Gas	0.000	18.55	203.34	5	
Th	232	209	No Gas	0.000	59.18	65.00	5	
U	238	209	No Gas	0.000	284.49	26.67	5	
Na	23	45	He	0.035	18.03	63121.95	90	
Mg	24	45	He	0.006	39.44	913.40	90	
Al	27	45	He	0.003	42.81	275.00	90	
K	39	45	He	-0.017	N/A	72239.30	90	
Ca	43	45	He	0.008	534.31	34.67	90	
Ti	47	45	He	0.000	51.25	13.00	5	
V	51	72	He	0.000	N/A	575.01	5	
Cr	52	72	He	0.000	37.01	2323.54	5	
Mn	55	72	He	0.000	20.99	256.68	5	
Fe	56	72	He	0.005	11.31	17831.22	90	
Co	59	72	He	0.000	104.37	70.00	5	
Ni	60	72	He	0.000	N/A	360.01	5	
Cu	63	72	He	0.001	11.01	1690.13	5	
Zn	66	72	He	0.000	2424.45	303.34	5	
As	75	125	He	0.000	37.90	89.67	5	
Sr	88	103	He	0.000	215497.58	120.00	5	
Mo	95	103	He	0.000	58.00	25.56	5	
Ag	107	103	He	0.000	25.59	135.56	1	
Cd	111	125	He	0.000	44.16	5.67	5	
Sn	118	103	He	0.000	35.12	196.67	2	
Sb	121	103	He	0.001	9.44	1553.45	1	
Ba	137	103	He	0.000	44.42	80.00	2	
Se	78	125	HEHe	0.000	N/A	2.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	380149.29	0.23	443297.543333333	85.75	60	120	
Te (No He)	125	No Gas	8349.22	2.78	9495.50666666667	87.93	60	120	
Bi (No He)	209	No Gas	276147.34	1.37	307097.756666667	89.92	60	120	
Sc	45	He	40618.54	1.80	45886.2333333333	88.52	60	120	
Ge	72	He	29609.43	0.30	31012.3366666667	95.48	60	120	
Rh	103	He	417567.34	0.93	462839.006666667	90.22	60	120	
Te	125	He	2553.59	2.70	2844.75	89.76	60	120	
Te (HE He)	125	HEHe	4208.98	2.36	4594.09666666667	91.62	60	120	

Sample Report

Sample Name	LCS WG791805
File Name	090SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:42:54
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.046	1.14	15276.45	5	
B	11	45	No Gas	0.047	1.21	10181.88	5	
Se	82	125	No Gas	0.052	5.87	2051.38	5	
Tl	205	209	No Gas	0.051	2.45	150364.13	5	
Pb	208	209	No Gas	0.051	2.02	107332.45	5	
Th	232	209	No Gas	0.049	2.05	195141.26	5	
U	238	209	No Gas	0.050	3.60	173396.84	5	
Na	23	45	He	5.170	0.44	1119965.24	90	
Mg	24	45	He	4.929	0.96	570215.15	90	
Al	27	45	He	4.893	0.83	253490.76	90	
K	39	45	He	4.979	0.20	741750.07	90	
Ca	43	45	He	4.931	1.56	1950.81	90	
Ti	47	45	He	0.050	2.93	2186.83	5	
V	51	72	He	0.048	2.56	65732.96	5	
Cr	52	72	He	0.048	2.01	79114.32	5	
Mn	55	72	He	0.048	3.35	45197.34	5	
Fe	56	72	He	4.653	1.66	6343823.03	90	
Co	59	72	He	0.050	1.32	119738.91	5	
Ni	60	72	He	0.050	4.29	32019.12	5	
Cu	63	72	He	0.051	2.75	87484.51	5	
Zn	66	72	He	0.049	1.98	15728.66	5	
As	75	125	He	0.051	3.03	13847.33	5	
Sr	88	103	He	0.050	2.05	60706.70	5	
Mo	95	103	He	0.050	1.60	37334.74	5	
Ag	107	103	He	0.051	1.20	111713.47	1	
Cd	111	125	He	0.052	4.59	16433.29	5	
Sn	118	103	He	0.050	1.25	36371.15	2	
Sb	121	103	He	0.054	2.67	57796.90	1	
Ba	137	103	He	0.051	2.39	18235.65	2	
Se	78	125	HEHe	0.051	2.20	1117.04	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	399273.29	1.64	443297.543333333	90.07	60	120	
Te (No He)	125	No Gas	8677.19	2.03	9495.50666666667	91.38	60	120	
Bi (No He)	209	No Gas	276535.59	2.55	307097.756666667	90.05	60	120	
Sc	45	He	42769.08	0.62	45886.2333333333	93.21	60	120	
Ge	72	He	31343.10	2.14	31012.3366666667	101.07	60	120	
Rh	103	He	436521.07	1.40	462839.006666667	94.31	60	120	
Te	125	He	2694.72	4.00	2844.75	94.73	60	120	
Te (HE He)	125	HEHe	4425.37	2.81	4594.09666666667	96.33	60	120	

Sample Report

Sample Name	LCSD WG791805
File Name	091SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:45:08
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.048	1.23	15935.14	5	
B	11	45	No Gas	0.048	3.27	10688.89	5	
Se	82	125	No Gas	0.051	6.46	2154.77	5	
Tl	205	209	No Gas	0.051	2.76	159179.63	5	
Pb	208	209	No Gas	0.052	1.86	115689.48	5	
Th	232	209	No Gas	0.050	1.56	207145.38	5	
U	238	209	No Gas	0.052	2.27	186428.49	5	
Na	23	45	He	5.320	1.52	1138887.90	90	
Mg	24	45	He	5.048	2.05	577953.86	90	
Al	27	45	He	5.062	1.58	259589.79	90	
K	39	45	He	5.181	2.01	760798.77	90	
Ca	43	45	He	5.198	2.51	2033.48	90	
Ti	47	45	He	0.052	2.17	2255.84	5	
V	51	72	He	0.049	2.22	67835.86	5	
Cr	52	72	He	0.049	2.14	79895.03	5	
Mn	55	72	He	0.049	0.35	45719.20	5	
Fe	56	72	He	4.787	1.50	6577638.24	90	
Co	59	72	He	0.051	1.01	121957.90	5	
Ni	60	72	He	0.050	1.64	32470.17	5	
Cu	63	72	He	0.052	1.19	89248.58	5	
Zn	66	72	He	0.050	1.88	16239.26	5	
As	75	125	He	0.050	3.01	14328.46	5	
Sr	88	103	He	0.052	1.83	63703.07	5	
Mo	95	103	He	0.052	0.31	38303.97	5	
Ag	107	103	He	0.053	0.62	116634.11	1	
Cd	111	125	He	0.051	2.59	17067.03	5	
Sn	118	103	He	0.052	3.00	37220.16	2	
Sb	121	103	He	0.057	2.08	59939.61	1	
Ba	137	103	He	0.053	5.38	19126.96	2	
Se	78	125	HEHe	0.052	4.40	1131.13	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	406234.68	1.41	443297.543333333	91.64	60	120	
Te (No He)	125	No Gas	9146.39	1.13	9495.50666666667	96.32	60	120	
Bi (No He)	209	No Gas	290391.78	2.06	307097.756666667	94.56	60	120	
Sc	45	He	42336.84	1.10	45886.2333333333	92.26	60	120	
Ge	72	He	31586.99	1.68	31012.3366666667	101.85	60	120	
Rh	103	He	434542.47	0.62	462839.006666667	93.89	60	120	
Te	125	He	2835.86	3.17	2844.75	99.69	60	120	
Te (HE He)	125	HEHe	4409.04	2.56	4594.09666666667	95.97	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	092SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:47:24
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	162.57	14.67	5	
B	11	45	No Gas	0.282	1.85	51891.51	5	
Se	82	125	No Gas	0.009	30.17	223.19	5	
Tl	205	209	No Gas	0.000	8.48	460.02	5	
Pb	208	209	No Gas	0.001	12.60	1333.43	5	
Th	232	209	No Gas	0.000	32.13	295.01	5	
U	238	209	No Gas	0.024	1.65	62152.93	5	
Na	23	45	He	4621.672	3.30	848513720.69	90	>LDR
Mg	24	45	He	920.737	3.44	95261675.25	90	>LDR
Al	27	45	He	0.022	6.41	1130.06	90	
K	39	45	He	11.539	3.04	1446232.53	90	
Ca	43	45	He	1076.820	1.35	374787.72	90	>LDR
Ti	47	45	He	0.000	31.29	23.67	5	
V	51	72	He	0.007	3.43	11429.57	5	
Cr	52	72	He	0.000	42.17	2821.97	5	
Mn	55	72	He	0.468	2.13	503975.62	5	
Fe	56	72	He	0.073	1.24	128651.09	90	
Co	59	72	He	0.003	2.70	8425.94	5	
Ni	60	72	He	0.005	9.33	4357.40	5	
Cu	63	72	He	0.001	6.26	2050.18	5	
Zn	66	72	He	0.005	9.72	2176.86	5	
As	75	125	He	0.003	2.82	756.19	5	
Sr	88	103	He	21.846	1.25	20277607.62	5	>LDR
Mo	95	103	He	0.017	2.21	9634.43	5	
Ag	107	103	He	0.000	22.06	295.56	1	
Cd	111	125	He	0.000	16.58	41.00	5	
Sn	118	103	He	0.000	13.97	286.68	2	
Sb	121	103	He	0.004	8.01	3747.25	1	
Ba	137	103	He	0.035	1.68	9530.13	2	
Se	78	125	HEHe	0.011	2.91	187.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	351038.42	1.82	443297.543333333	79.19	60	120	
Te (No He)	125	No Gas	7049.60	1.03	9495.50666666667	74.24	60	120	
Bi (No He)	209	No Gas	211690.88	1.13	307097.756666667	68.93	60	120	
Sc	45	He	38293.34	3.11	45886.2333333333	83.45	60	120	
Ge	72	He	36240.16	2.42	31012.3366666667	116.86	60	120	
Rh	103	He	332965.53	2.53	462839.006666667	71.94	60	120	
Te	125	He	2061.28	1.60	2844.75	72.46	60	120	
Te (HE He)	125	HEHe	3293.06	2.40	4594.09666666667	71.68	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	093SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:49:40
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.001	28.93	38.00	5	
B	11	45	No Gas	0.321	0.91	12228.40	5	
Se	82	125	No Gas	-0.023	N/A	-258.86	5	
Tl	205	209	No Gas	0.001	7.60	383.35	5	
Pb	208	209	No Gas	0.001	8.94	426.68	5	
Th	232	209	No Gas	0.001	18.03	363.34	5	
U	238	209	No Gas	0.026	4.00	14458.38	5	
Na	23	45	He	4886.163	1.46	190535303.83	90	>LDR
Mg	24	45	He	972.554	0.75	21368186.35	90	>LDR
Al	27	45	He	0.074	11.81	848.36	90	
K	39	45	He	11.806	2.79	373261.24	90	
Ca	43	45	He	1125.100	1.50	83151.16	90	>LDR
Ti	47	45	He	0.000	58.65	9.33	5	
V	51	72	He	0.010	1.24	2826.97	5	
Cr	52	72	He	0.003	8.38	2578.58	5	
Mn	55	72	He	0.708	1.93	112114.86	5	
Fe	56	72	He	0.329	1.16	86829.22	90	
Co	59	72	He	0.005	11.66	1936.84	5	
Ni	60	72	He	0.011	5.11	1566.78	5	
Cu	63	72	He	0.003	9.80	1000.05	5	
Zn	66	72	He	0.014	8.50	1011.71	5	
As	75	125	He	0.004	3.60	224.33	5	
Sr	88	103	He	23.052	3.11	4612349.10	5	
Mo	95	103	He	0.018	1.56	2212.41	5	
Ag	107	103	He	0.001	11.84	202.23	1	
Cd	111	125	He	0.001	7.00	34.67	5	
Sn	118	103	He	0.001	38.57	140.00	2	
Sb	121	103	He	0.006	12.60	1240.07	1	
Ba	137	103	He	0.038	4.89	2250.22	2	
Se	78	125	HEHe	0.012	9.99	44.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	353304.46	1.45	443297.543333333	79.7	60	120	
Te (No He)	125	No Gas	7370.89	1.60	9495.50666666667	77.62	60	120	
Bi (No He)	209	No Gas	223574.70	1.88	307097.756666667	72.8	60	120	
Sc	45	He	40634.14	0.46	45886.2333333333	88.55	60	120	
Ge	72	He	26650.30	1.10	31012.3366666667	85.93	60	120	
Rh	103	He	358984.20	0.67	462839.006666667	77.56	60	120	
Te	125	He	2090.17	2.80	2844.75	73.47	60	120	
Te (HE He)	125	HEHe	3621.48	2.38	4594.09666666667	78.83	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	094SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:51:58
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.045	1.79	10659.14	5	
B	11	45	No Gas	0.340	0.18	51209.03	5	
Se	82	125	No Gas	0.055	14.36	1502.10	5	
Tl	205	209	No Gas	0.052	0.89	100125.19	5	
Pb	208	209	No Gas	0.051	0.29	70190.52	5	
Th	232	209	No Gas	0.053	1.32	136638.41	5	
U	238	209	No Gas	0.078	1.69	176138.13	5	
Na	23	45	He	4406.094	1.36	730049562.45	90	>LDR
Mg	24	45	He	866.484	0.63	80912933.80	90	>LDR
Al	27	45	He	4.723	0.70	197602.92	90	
K	39	45	He	15.586	0.53	1740387.37	90	
Ca	43	45	He	1004.893	1.10	315555.97	90	>LDR
Ti	47	45	He	0.050	1.84	1744.77	5	
V	51	72	He	0.045	2.16	62863.78	5	
Cr	52	72	He	0.036	1.36	61318.87	5	
Mn	55	72	He	0.508	1.77	483264.65	5	
Fe	56	72	He	3.461	3.46	4832442.84	90	
Co	59	72	He	0.039	1.53	95454.48	5	
Ni	60	72	He	0.041	1.02	26935.32	5	
Cu	63	72	He	0.036	3.03	62930.46	5	
Zn	66	72	He	0.037	3.40	12065.15	5	
As	75	125	He	0.059	3.25	11176.34	5	
Sr	88	103	He	21.897	0.66	18376981.40	5	>LDR
Mo	95	103	He	0.072	1.72	36806.69	5	
Ag	107	103	He	0.049	0.93	73911.35	1	
Cd	111	125	He	0.049	4.12	10854.20	5	
Sn	118	103	He	0.050	1.06	24769.10	2	
Sb	121	103	He	0.057	0.26	41438.91	1	
Ba	137	103	He	0.083	3.49	20602.40	2	
Se	78	125	HEHe	0.062	3.20	1016.21	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	287589.82	0.59	443297.543333333	64.88	60	120	
Te (No He)	125	No Gas	5927.96	1.84	9495.50666666667	62.43	60	120	
Bi (No He)	209	No Gas	180916.64	0.61	307097.756666667	58.91	60	120	ISTD Failed
Sc	45	He	34540.75	0.73	45886.2333333333	75.27	60	120	
Ge	72	He	32081.38	1.15	31012.3366666667	103.45	60	120	
Rh	103	He	301124.27	0.70	462839.006666667	65.06	60	120	
Te	125	He	1893.47	2.75	2844.75	66.56	60	120	
Te (HE He)	125	HEHe	3319.07	1.22	4594.09666666667	72.25	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	095SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:54:32
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.046	1.00	10570.41	5	
B	11	45	No Gas	0.349	1.51	50498.33	5	
Se	82	125	No Gas	0.047	9.09	1289.75	5	
Tl	205	209	No Gas	0.051	1.28	97895.20	5	
Pb	208	209	No Gas	0.051	0.59	69714.76	5	
Th	232	209	No Gas	0.052	1.83	135162.97	5	
U	238	209	No Gas	0.078	1.17	175234.51	5	
Na	23	45	He	4596.135	1.22	722708122.56	90	>LDR
Mg	24	45	He	900.835	0.72	79833437.14	90	>LDR
Al	27	45	He	4.807	0.78	190874.89	90	
K	39	45	He	15.718	0.91	1665226.96	90	
Ca	43	45	He	1038.972	0.70	309633.95	90	>LDR
Ti	47	45	He	0.051	3.08	1689.43	5	
V	51	72	He	0.044	1.31	61057.58	5	
Cr	52	72	He	0.036	0.80	59758.98	5	
Mn	55	72	He	0.502	0.08	476354.47	5	
Fe	56	72	He	3.400	0.19	4729205.76	90	
Co	59	72	He	0.038	1.81	93571.29	5	
Ni	60	72	He	0.040	1.74	26137.29	5	
Cu	63	72	He	0.036	2.75	62314.36	5	
Zn	66	72	He	0.035	1.33	11461.30	5	
As	75	125	He	0.063	7.28	10924.48	5	
Sr	88	103	He	22.423	1.45	18362432.64	5	>LDR
Mo	95	103	He	0.072	2.33	36121.61	5	
Ag	107	103	He	0.049	0.38	72442.50	1	
Cd	111	125	He	0.051	8.16	10465.24	5	
Sn	118	103	He	0.050	2.25	24361.64	2	
Sb	121	103	He	0.056	1.46	40128.22	1	
Ba	137	103	He	0.084	4.29	20438.87	2	
Se	78	125	HEHe	0.060	4.45	1000.37	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	276483.00	0.81	443297.543333333	62.37	60	120	
Te (No He)	125	No Gas	6089.15	0.22	9495.50666666667	64.13	60	120	
Bi (No He)	209	No Gas	180268.51	1.77	307097.756666667	58.7	60	120	ISTD Failed
Sc	45	He	32781.17	1.39	45886.2333333333	71.44	60	120	
Ge	72	He	31946.62	0.98	31012.3366666667	103.01	60	120	
Rh	103	He	293834.23	1.30	462839.006666667	63.49	60	120	
Te	125	He	1742.34	5.81	2844.75	61.25	60	120	
Te (HE He)	125	HEHe	3405.09	3.90	4594.09666666667	74.12	60	120	

Sample Report

Sample Name	L766725-01 WG791805
File Name	096SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:56:50
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	6.67	5	
B	11	45	No Gas	0.082	5.08	14251.88	5	
Se	82	125	No Gas	-0.003	N/A	-207.05	5	
Tl	205	209	No Gas	0.000	27.16	76.67	5	
Pb	208	209	No Gas	0.000	7.14	256.68	5	
Th	232	209	No Gas	0.000	25.29	121.67	5	
U	238	209	No Gas	0.003	4.54	8259.45	5	
Na	23	45	He	31.316	1.05	5762662.21	90	
Mg	24	45	He	17.497	1.48	1798291.02	90	
Al	27	45	He	0.013	7.98	718.36	90	
K	39	45	He	2.451	1.52	359758.79	90	
Ca	43	45	He	78.969	1.14	27317.45	90	
Ti	47	45	He	0.000	16.37	10.33	5	
V	51	72	He	0.005	1.42	6539.85	5	
Cr	52	72	He	0.001	4.69	3797.19	5	
Mn	55	72	He	0.000	21.70	356.68	5	
Fe	56	72	He	0.008	5.47	22501.06	90	
Co	59	72	He	0.000	17.63	126.67	5	
Ni	60	72	He	0.000	153.73	443.35	5	
Cu	63	72	He	0.000	22.01	560.02	5	
Zn	66	72	He	0.000	55.98	376.68	5	
As	75	125	He	0.001	7.99	228.67	5	
Sr	88	103	He	0.730	0.71	789844.65	5	
Mo	95	103	He	0.002	1.66	1402.30	5	
Ag	107	103	He	0.000	20.34	142.22	1	
Cd	111	125	He	0.000	77.82	3.67	5	
Sn	118	103	He	0.000	16.09	336.68	2	
Sb	121	103	He	0.002	3.23	1836.82	1	
Ba	137	103	He	0.152	1.41	48689.74	2	
Se	78	125	HEHe	0.006	6.11	126.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	325271.99	0.80	443297.543333333	73.38	60	120	
Te (No He)	125	No Gas	7763.32	0.97	9495.50666666667	81.76	60	120	
Bi (No He)	209	No Gas	238318.05	2.01	307097.756666667	77.6	60	120	
Sc	45	He	38011.63	1.10	45886.2333333333	82.84	60	120	
Ge	72	He	29390.10	0.95	31012.3366666667	94.77	60	120	
Rh	103	He	388357.27	2.01	462839.006666667	83.91	60	120	
Te	125	He	2201.30	4.43	2844.75	77.38	60	120	
Te (HE He)	125	HEHe	4010.91	0.84	4594.09666666667	87.31	60	120	

Sample Report

Sample Name	L766725-02 WG791805
File Name	097SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 15:59:07
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	103.93	14.67	5	
B	11	45	No Gas	0.070	0.59	13731.39	5	
Se	82	125	No Gas	-0.002	N/A	-180.95	5	
Tl	205	209	No Gas	0.000	37.97	83.33	5	
Pb	208	209	No Gas	0.000	12.58	783.37	5	
Th	232	209	No Gas	0.000	5.42	955.05	5	
U	238	209	No Gas	0.003	2.52	11131.65	5	
Na	23	45	He	25.557	1.21	4992929.09	90	
Mg	24	45	He	15.757	1.43	1715967.99	90	
Al	27	45	He	0.133	1.88	6629.89	90	
K	39	45	He	2.626	1.43	403217.47	90	
Ca	43	45	He	76.432	1.61	28013.43	90	
Ti	47	45	He	0.003	27.91	113.33	5	
V	51	72	He	0.004	2.72	6718.27	5	
Cr	52	72	He	0.001	7.12	4053.93	5	
Mn	55	72	He	0.007	2.13	7055.16	5	
Fe	56	72	He	0.150	0.82	216785.52	90	
Co	59	72	He	0.000	8.15	323.34	5	
Ni	60	72	He	0.000	27.21	570.02	5	
Cu	63	72	He	0.001	9.52	1213.41	5	
Zn	66	72	He	0.006	0.85	2310.20	5	
As	75	125	He	0.001	3.98	288.83	5	
Sr	88	103	He	0.716	0.26	844947.51	5	
Mo	95	103	He	0.002	2.85	1405.63	5	
Ag	107	103	He	0.000	14.91	83.33	1	
Cd	111	125	He	0.000	158.05	5.00	5	
Sn	118	103	He	0.000	11.92	330.01	2	
Sb	121	103	He	0.002	1.91	2296.90	1	
Ba	137	103	He	0.218	0.24	76241.21	2	
Se	78	125	HEHe	0.003	6.88	76.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	365522.05	2.18	443297.543333333	82.46	60	120	
Te (No He)	125	No Gas	8523.76	2.24	9495.50666666667	89.77	60	120	
Bi (No He)	209	No Gas	282709.95	1.39	307097.756666667	92.06	60	120	
Sc	45	He	40277.62	1.82	45886.2333333333	87.78	60	120	
Ge	72	He	31354.20	1.26	31012.3366666667	101.1	60	120	
Rh	103	He	423225.33	0.94	462839.006666667	91.44	60	120	
Te	125	He	2560.25	2.34	2844.75	90	60	120	
Te (HE He)	125	HEHe	4335.02	0.95	4594.09666666667	94.36	60	120	

Sample Report

Sample Name	L766887-02 WG791805
File Name	098SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:01:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	5.33	5	
B	11	45	No Gas	0.428	2.27	67538.38	5	
Se	82	125	No Gas	-0.001	N/A	-118.78	5	
Tl	205	209	No Gas	0.000	43.30	270.01	5	
Pb	208	209	No Gas	0.000	15.30	276.68	5	
Th	232	209	No Gas	0.000	23.79	80.00	5	
U	238	209	No Gas	0.019	0.33	48802.50	5	
Na	23	45	He	5236.116	0.69	831318014.28	90	>LDR
Mg	24	45	He	1060.951	0.57	94923565.25	90	>LDR
Al	27	45	He	0.031	4.82	1360.08	90	
K	39	45	He	8.836	0.73	971564.49	90	
Ca	43	45	He	992.623	0.40	298649.86	90	>LDR
Ti	47	45	He	0.001	34.55	26.33	5	
V	51	72	He	0.007	1.82	10610.62	5	
Cr	52	72	He	0.001	13.23	3152.04	5	
Mn	55	72	He	0.855	1.29	866195.32	5	
Fe	56	72	He	0.039	1.98	71271.72	90	
Co	59	72	He	0.006	4.85	14634.31	5	
Ni	60	72	He	0.009	2.93	6361.50	5	
Cu	63	72	He	0.002	0.19	3293.77	5	
Zn	66	72	He	0.003	4.61	1266.73	5	
As	75	125	He	0.003	7.15	696.35	5	
Sr	88	103	He	20.383	1.53	17136904.33	5	>LDR
Mo	95	103	He	0.042	1.50	21281.60	5	
Ag	107	103	He	0.000	17.05	171.11	1	
Cd	111	125	He	0.000	27.45	24.00	5	
Sn	118	103	He	0.000	27.47	226.67	2	
Sb	121	103	He	0.005	6.08	3567.18	1	
Ba	137	103	He	0.039	3.11	9780.27	2	
Se	78	125	HEHe	0.009	1.30	171.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	302335.07	1.05	443297.543333333	68.2	60	120	
Te (No He)	125	No Gas	6606.05	1.82	9495.50666666667	69.57	60	120	
Bi (No He)	209	No Gas	208689.15	1.56	307097.756666667	67.96	60	120	
Sc	45	He	33094.08	1.40	45886.2333333333	72.12	60	120	
Ge	72	He	34151.62	1.05	31012.3366666667	110.12	60	120	
Rh	103	He	301721.51	2.55	462839.006666667	65.19	60	120	
Te	125	He	1930.15	4.36	2844.75	67.85	60	120	
Te (HE He)	125	HEHe	3755.85	2.16	4594.09666666667	81.75	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	099_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:03:43
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.099	0.38	31228.46	0.1	99.41	90	110	
B	11	45	No Gas	0.096	1.71	19542.85	0.1	96.42	90	110	
Se	82	125	No Gas	0.091	2.94	3923.14	0.1	91.15	90	110	
Tl	205	209	No Gas	0.105	1.86	302993.09	0.1	104.56	90	110	
Pb	208	209	No Gas	0.105	1.37	218731.48	0.1	105.25	90	110	
Th	232	209	No Gas	0.102	1.09	394824.45	0.1	101.57	90	110	
U	238	209	No Gas	0.101	1.93	341355.68	0.1	100.87	90	110	
Na	23	45	He	12.351	1.53	2709368.08	10	123.51	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.445	1.44	1264901.02	10	104.45	90	110	
Al	27	45	He	0.991	1.30	53839.66	1	99.07	90	110	
K	39	45	He	10.401	3.25	1524966.18	10	104.01	90	110	
Ca	43	45	He	10.146	2.66	4162.61	10	101.46	90	110	
Ti	47	45	He	0.103	1.05	4670.75	0.1	102.79	90	110	
V	51	72	He	0.106	0.84	142237.69	0.1	105.8	90	110	
Cr	52	72	He	0.106	1.46	167923.38	0.1	105.71	90	110	
Mn	55	72	He	0.106	1.67	97345.50	0.1	105.8	90	110	
Fe	56	72	He	1.047	1.40	1419258.05	1	104.7	90	110	
Co	59	72	He	0.108	1.54	255931.20	0.1	108.47	90	110	
Ni	60	72	He	0.111	1.99	70263.81	0.1	111.37	90	110	CCV Main CR1 Failed
Cu	63	72	He	0.109	1.92	183886.88	0.1	109.13	90	110	
Zn	66	72	He	0.105	0.39	33004.59	0.1	105.42	90	110	
As	75	125	He	0.111	3.52	30019.74	0.1	110.96	90	110	CCV Main CR1 Failed
Sr	88	103	He	0.103	1.05	128013.49	0.1	102.83	90	110	
Mo	95	103	He	0.104	1.30	78989.29	0.1	104.36	90	110	
Ag	107	103	He	0.103	0.38	232590.95	0.1	103.24	90	110	
Cd	111	125	He	0.106	2.86	33798.57	0.1	105.96	90	110	
Sn	118	103	He	0.100	1.02	74083.25	0.1	100.24	90	110	
Sb	121	103	He	0.100	0.90	108511.61	0.1	100.15	90	110	
Ba	137	103	He	0.097	3.09	35703.26	0.1	96.81	90	110	
Se	78	125	HEHe	0.108	3.55	2394.54	0.1	108.36	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343514.02	0.78	443297.543333333	77.49	60	120	
Te (No He)	125	No Gas	8251.38	1.78	9495.50666666667	86.9	60	120	
Bi (No He)	209	No Gas	244868.44	0.85	307097.756666667	79.74	60	120	
Sc	45	He	40307.79	0.35	45886.2333333333	87.84	60	120	
Ge	72	He	27880.46	1.71	31012.3366666667	89.9	60	120	
Rh	103	He	401624.20	0.23	462839.006666667	86.77	60	120	
Te	125	He	2430.23	3.10	2844.75	85.43	60	120	
Te (HE He)	125	HEHe	4057.60	2.21	4594.09666666667	88.32	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	100_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:20:48
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.093	2.30	35731.80	0.1	92.72	90	110	
B	11	45	No Gas	0.094	4.44	23408.45	0.1	94.12	90	110	
Se	82	125	No Gas	0.102	1.71	5038.92	0.1	101.53	90	110	
Tl	205	209	No Gas	0.101	0.23	360871.50	0.1	100.57	90	110	
Pb	208	209	No Gas	0.101	0.69	259664.68	0.1	100.91	90	110	
Th	232	209	No Gas	0.000	26.20	83.33	0.1	0.01	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	1.06	411750.09	0.1	98.26	90	110	
Na	23	45	He	10.480	1.15	2608802.57	10	104.8	90	110	
Mg	24	45	He	10.188	1.55	1395122.17	10	101.88	90	110	
Al	27	45	He	0.993	0.45	61033.91	1	99.32	90	110	
K	39	45	He	10.253	1.96	1700895.29	10	102.53	90	110	
Ca	43	45	He	9.842	2.01	4566.73	10	98.42	90	110	
Ti	47	45	He	0.098	2.34	5058.88	0.1	98.45	90	110	
V	51	72	He	0.103	1.12	156173.26	0.1	102.65	90	110	
Cr	52	72	He	0.102	1.75	183888.45	0.1	102.27	90	110	
Mn	55	72	He	0.102	1.89	106509.15	0.1	102.3	90	110	
Fe	56	72	He	1.021	0.77	1566177.74	1	102.08	90	110	
Co	59	72	He	0.105	1.27	279385.10	0.1	104.65	90	110	
Ni	60	72	He	0.103	2.54	73902.08	0.1	103.47	90	110	
Cu	63	72	He	0.104	2.05	197794.60	0.1	103.73	90	110	
Zn	66	72	He	0.104	2.73	36708.38	0.1	103.62	90	110	
As	75	125	He	0.110	3.82	33236.98	0.1	110.01	90	110	CCV Main CR1 Failed
Sr	88	103	He	0.099	0.67	141056.22	0.1	98.98	90	110	
Mo	95	103	He	0.100	0.22	86784.73	0.1	100.17	90	110	
Ag	107	103	He	0.101	0.75	259895.67	0.1	100.78	90	110	
Cd	111	125	He	0.108	2.59	38421.10	0.1	107.85	90	110	
Sn	118	103	He	0.099	0.18	83510.00	0.1	98.71	90	110	
Sb	121	103	He	0.100	1.07	123714.66	0.1	99.75	90	110	
Ba	137	103	He	0.100	1.04	42168.41	0.1	99.89	90	110	
Se	78	125	HEHe	0.136	35.12	2647.66	0.1	136.33	90	110	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	421469.68	1.13	443297.543333333	95.08	60	120	
Te (No He)	125	No Gas	9486.62	1.86	9495.50666666667	99.91	60	120	
Bi (No He)	209	No Gas	303187.22	1.52	307097.756666667	98.73	60	120	
Sc	45	He	45575.42	0.82	45886.2333333333	99.32	60	120	
Ge	72	He	31543.54	0.34	31012.3366666667	101.71	60	120	
Rh	103	He	459734.22	0.42	462839.006666667	99.33	60	120	
Te	125	He	2713.61	2.63	2844.75	95.39	60	120	
Te (HE He)	125	HEHe	3827.92	29.39	4594.09666666667	83.32	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	101_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:29:41
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.091	0.45	34933.19	0.1	90.96	90	110	
B	11	45	No Gas	0.094	0.93	23291.52	0.1	93.95	90	110	
Se	82	125	No Gas	0.101	2.53	5030.43	0.1	101.22	90	110	
Tl	205	209	No Gas	0.100	0.49	358185.34	0.1	99.97	90	110	
Pb	208	209	No Gas	0.100	0.34	257261.51	0.1	100.11	90	110	
Th	232	209	No Gas	0.000	78.00	36.67	0.1	0	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	1.34	409250.76	0.1	97.8	90	110	
Na	23	45	He	10.189	0.73	2558674.70	10	101.89	90	110	
Mg	24	45	He	9.808	0.37	1353947.74	10	98.08	90	110	
Al	27	45	He	0.964	0.62	59718.52	1	96.4	90	110	
K	39	45	He	10.070	1.65	1685383.41	10	100.7	90	110	
Ca	43	45	He	9.764	1.12	4567.39	10	97.64	90	110	
Ti	47	45	He	0.098	1.45	5083.22	0.1	98.15	90	110	
V	51	72	He	0.101	0.95	155518.34	0.1	100.92	90	110	
Cr	52	72	He	0.101	1.16	183749.23	0.1	100.88	90	110	
Mn	55	72	He	0.099	2.13	104891.14	0.1	99.46	90	110	
Fe	56	72	He	0.977	2.01	1518248.78	1	97.67	90	110	
Co	59	72	He	0.102	0.85	276528.72	0.1	102.26	90	110	
Ni	60	72	He	0.102	1.15	74082.57	0.1	102.4	90	110	
Cu	63	72	He	0.101	0.29	195156.35	0.1	101.04	90	110	
Zn	66	72	He	0.101	1.44	36290.70	0.1	101.12	90	110	
As	75	125	He	0.105	3.90	32977.21	0.1	105.18	90	110	
Sr	88	103	He	0.099	0.78	141914.93	0.1	98.88	90	110	
Mo	95	103	He	0.100	0.60	87108.78	0.1	99.83	90	110	
Ag	107	103	He	0.099	0.54	255951.08	0.1	98.55	90	110	
Cd	111	125	He	0.103	3.90	38057.11	0.1	102.96	90	110	
Sn	118	103	He	0.099	0.54	84033.05	0.1	98.62	90	110	
Sb	121	103	He	0.099	1.58	123091.79	0.1	98.55	90	110	
Ba	137	103	He	0.098	0.45	41456.28	0.1	97.51	90	110	
Se	78	125	HEHe	0.103	3.31	2583.57	0.1	102.53	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	419973.47	0.86	443297.543333333	94.74	60	120	
Te (No He)	125	No Gas	9502.18	1.81	9495.50666666667	100.07	60	120	
Bi (No He)	209	No Gas	302747.74	0.41	307097.756666667	98.58	60	120	
Sc	45	He	45942.12	1.13	45886.2333333333	100.12	60	120	
Ge	72	He	31948.85	0.30	31012.3366666667	103.02	60	120	
Rh	103	He	463019.89	0.98	462839.006666667	100.04	60	120	
Te	125	He	2816.97	3.83	2844.75	99.02	60	120	
Te (HE He)	125	HEHe	4626.45	2.24	4594.09666666667	100.7	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	102_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:38:49
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	073CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	5.33	0.001	
B	11	45	No Gas	0.001	38.79	663.36	0.02	
Se	82	125	No Gas	-0.002	N/A	-206.76	0.001	
Tl	205	209	No Gas	0.000	86.82	40.00	0.001	
Pb	208	209	No Gas	0.000	9.69	1166.73	0.001	
Th	232	209	No Gas	0.000	N/A	5.00	0.01	
U	238	209	No Gas	0.000	N/A	16.67	0.01	
Na	23	45	He	0.141	1.29	94696.57	1	
Mg	24	45	He	0.001	63.57	380.02	1	
Al	27	45	He	0.000	N/A	133.33	0.1	
K	39	45	He	-0.010	N/A	79576.80	1	
Ca	43	45	He	-0.023	N/A	24.67	1	
Ti	47	45	He	0.000	N/A	4.33	0.01	
V	51	72	He	0.000	N/A	613.35	0.002	
Cr	52	72	He	0.000	N/A	2001.82	0.001	
Mn	55	72	He	0.000	350.18	143.33	0.002	
Fe	56	72	He	-0.001	N/A	10200.37	0.1	
Co	59	72	He	0.000	142.98	63.33	0.001	
Ni	60	72	He	0.000	N/A	260.01	0.001	
Cu	63	72	He	0.000	N/A	110.00	0.002	
Zn	66	72	He	-0.001	N/A	96.67	0.01	
As	75	125	He	0.000	N/A	53.33	0.001	
Sr	88	103	He	0.000	346.54	143.34	0.01	
Mo	95	103	He	0.000	2.00	10.00	0.002	
Ag	107	103	He	0.000	119.50	50.00	0.001	
Cd	111	125	He	0.000	N/A	1.67	0.001	
Sn	118	103	He	0.000	231.46	66.67	0.001	
Sb	121	103	He	0.000	119.09	296.68	0.001	
Ba	137	103	He	0.000	57.39	13.33	0.002	
Se	78	125	HEHe	0.000	N/A	2.00	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	410665.32	0.65	443297.543333333	92.64	60	120	
Te (No He)	125	No Gas	9413.23	3.35	9495.50666666667	99.13	60	120	
Bi (No He)	209	No Gas	308895.87	0.78	307097.756666667	100.59	60	120	
Sc	45	He	44285.81	0.74	45886.2333333333	96.51	60	120	
Ge	72	He	30655.17	1.90	31012.3366666667	98.85	60	120	
Rh	103	He	459572.25	1.11	462839.006666667	99.29	60	120	
Te	125	He	2761.40	7.01	2844.75	97.07	60	120	
Te (HE He)	125	HEHe	4617.77	0.65	4594.09666666667	100.52	60	120	

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	103CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:45:22
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	6.67	69.28
B	11	45	No Gas	481.68	9.65
Tl	205	209	No Gas	20.00	86.60
Pb	208	209	No Gas	63.33	39.74
Th	232	209	No Gas	21.67	26.65
U	238	209	No Gas	23.33	65.47
Na	23	45	He	90000.04	0.92
Mg	24	45	He	373.35	26.43
Al	27	45	He	93.33	16.37
K	39	45	He	77431.98	0.90
Ca	43	45	He	22.00	18.18
Ti	47	45	He	5.00	20.00
V	51	72	He	631.69	7.18
Cr	52	72	He	2081.84	3.91
Mn	55	72	He	186.67	37.63
Fe	56	72	He	15134.77	3.58
Co	59	72	He	83.33	45.43
Ni	60	72	He	393.35	17.31
Cu	63	72	He	276.68	7.52
Zn	66	72	He	366.68	20.51
As	75	125	He	56.67	8.93
Sr	88	103	He	163.34	34.82
Mo	95	103	He	2.22	86.60
Ag	107	103	He	30.00	44.43
Cd	111	125	He	2.00	132.29
Sn	118	103	He	66.67	31.22
Sb	121	103	He	256.67	39.41
Ba	137	103	He	6.67	86.60
Se	78	125	HEHe	1.75	37.80

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	410461.05	0.69
Te (No He)	125	No Gas	9376.54	2.05

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	308551.35	1.83
Sc	45	He	44372.75	1.09
Ge	72	He	30931.15	0.82
Rh	103	He	455759.45	0.56
Te	125	He	2603.59	4.32
Te (HE He)	125	HEHe	4577.43	1.87

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	104CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:48:30
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	370.68	5.92
B	11	45	No Gas	673.35	5.22
Tl	205	209	No Gas	3617.24	5.60
Pb	208	209	No Gas	3820.63	3.28
Th	232	209	No Gas	4674.22	1.46
U	238	209	No Gas	4380.84	8.81
Na	23	45	He	112445.90	1.05
Mg	24	45	He	14747.84	0.49
Al	27	45	He	773.36	4.90
K	39	45	He	93854.52	1.33
Ca	43	45	He	76.67	27.65
Ti	47	45	He	70.67	7.26
V	51	72	He	2276.86	7.89
Cr	52	72	He	4213.97	4.62
Mn	55	72	He	1353.42	2.99
Fe	56	72	He	48615.24	0.93
Co	59	72	He	2853.66	11.25
Ni	60	72	He	1303.42	4.93
Cu	63	72	He	2273.56	3.12
Zn	66	72	He	848.36	4.42
As	75	125	He	380.34	3.08
Sr	88	103	He	1606.78	2.52
Mo	95	103	He	911.14	7.27
Ag	107	103	He	2625.82	4.84
Cd	111	125	He	421.68	5.39
Sn	118	103	He	950.05	5.57
Sb	121	103	He	1540.11	12.13
Ba	137	103	He	490.02	18.14
Se	78	125	HEHe	30.33	6.08

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	415315.83	1.46	410461.05	101.18	60	120	
Te (No He)	125	No Gas	9577.79	0.30	9376.54333333333	102.15	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	308560.87	0.69	308551.346666667	100	60	120	
Sc	45	He	44590.07	0.76	44372.7533333333	100.49	60	120	
Ge	72	He	30951.09	1.10	30931.1533333333	100.06	60	120	
Rh	103	He	463678.48	0.13	455759.45	101.74	60	120	
Te	125	He	2768.07	2.62	2603.59333333333	106.32	60	120	
Te (HE He)	125	HEHe	4628.78	1.10	4577.42666666667	101.12	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	105CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:51:00
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	714.02	5.62
B	11	45	No Gas	891.70	8.73
Tl	205	209	No Gas	7752.44	5.50
Pb	208	209	No Gas	5848.08	3.79
Th	232	209	No Gas	9817.13	2.17
U	238	209	No Gas	8699.76	2.13
Na	23	45	He	137636.87	1.22
Mg	24	45	He	27927.07	2.42
Al	27	45	He	1368.41	6.76
K	39	45	He	109629.81	1.65
Ca	43	45	He	121.33	12.15
Ti	47	45	He	101.33	20.28
V	51	72	He	3752.18	3.68
Cr	52	72	He	5821.21	3.02
Mn	55	72	He	2340.23	4.85
Fe	56	72	He	50986.58	1.27
Co	59	72	He	5964.64	0.51
Ni	60	72	He	2056.85	4.80
Cu	63	72	He	4670.83	7.79
Zn	66	72	He	1175.06	10.06
As	75	125	He	745.52	4.06
Sr	88	103	He	2973.69	4.73
Mo	95	103	He	1829.02	2.76
Ag	107	103	He	5352.15	2.90
Cd	111	125	He	815.36	4.73
Sn	118	103	He	1866.83	3.09
Sb	121	103	He	3013.72	1.01
Ba	137	103	He	786.71	13.94
Se	78	125	HEHe	56.75	3.08

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	408510.89	0.63	410461.05	99.52	60	120	
Te (No He)	125	No Gas	9526.64	0.31	9376.54333333333	101.6	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	305960.85	0.89	308551.346666667	99.16	60	120	
Sc	45	He	44140.96	1.70	44372.7533333333	99.48	60	120	
Ge	72	He	31285.16	0.08	30931.1533333333	101.14	60	120	
Rh	103	He	459472.75	1.11	455759.45	100.81	60	120	
Te	125	He	2800.30	1.87	2603.59333333333	107.56	60	120	
Te (HE He)	125	HEHe	4611.10	1.56	4577.42666666667	100.74	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	106CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:53:31
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3741.81	2.66
B	11	45	No Gas	2618.58	6.50
Se	82	125	No Gas	391.60	29.29
Tl	205	209	No Gas	37694.23	2.81
Pb	208	209	No Gas	28578.05	1.08
Th	232	209	No Gas	49698.40	1.03
U	238	209	No Gas	42885.15	2.84
Na	23	45	He	333111.31	0.99
Mg	24	45	He	138952.20	1.68
Al	27	45	He	8479.15	2.07
K	39	45	He	239557.16	1.19
Ca	43	45	He	480.68	5.27
Ti	47	45	He	527.01	5.93
V	51	72	He	16431.05	2.19
Cr	52	72	He	21467.60	1.21
Mn	55	72	He	10887.59	3.84
Fe	56	72	He	183487.57	6.17
Co	59	72	He	28835.79	1.27
Ni	60	72	He	9593.33	2.97
Cu	63	72	He	24631.39	1.98
Zn	66	72	He	4785.83	5.36
As	75	125	He	3513.27	0.62
Sr	88	103	He	15174.95	3.41
Mo	95	103	He	9007.36	3.53
Ag	107	103	He	26751.05	0.76
Cd	111	125	He	3975.90	2.20
Sn	118	103	He	8689.54	4.03
Sb	121	103	He	13616.90	2.55
Ba	137	103	He	4694.22	4.93
Se	78	125	HEHe	275.67	2.97

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	410429.19	1.23	410461.05	99.99	60	120	
Te (No He)	125	No Gas	9523.31	1.56	9376.54333333333	101.57	60	120	
Bi (No He)	209	No Gas	306068.50	0.41	308551.346666667	99.2	60	120	
Sc	45	He	44440.72	0.19	44372.7533333333	100.15	60	120	
Ge	72	He	31672.66	1.93	30931.1533333333	102.4	60	120	
Rh	103	He	462975.31	0.76	455759.45	101.58	60	120	
Te	125	He	2776.96	3.40	2603.59333333333	106.66	60	120	
Te (HE He)	125	HEHe	4705.80	0.64	4577.42666666667	102.8	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	107CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:56:20
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	17526.94	1.47
B	11	45	No Gas	11461.13	1.29
Se	82	125	No Gas	2316.86	3.97
Tl	205	209	No Gas	182482.70	0.32
Pb	208	209	No Gas	132721.92	2.48
Th	232	209	No Gas	238508.75	0.55
U	238	209	No Gas	209879.51	2.07
Na	23	45	He	1285252.59	0.96
Mg	24	45	He	672791.09	1.04
Al	27	45	He	30090.73	1.59
K	39	45	He	857637.38	0.65
Ca	43	45	He	2279.52	2.11
Ti	47	45	He	2591.57	1.53
V	51	72	He	77865.57	1.45
Cr	52	72	He	91828.06	0.41
Mn	55	72	He	52009.81	1.33
Fe	56	72	He	772981.08	0.49
Co	59	72	He	138865.39	0.69
Ni	60	72	He	37752.85	1.65
Cu	63	72	He	100028.74	1.25
Zn	66	72	He	18381.85	2.28
As	75	125	He	16687.00	0.41
Sr	88	103	He	69724.82	2.79
Mo	95	103	He	44126.41	1.31
Ag	107	103	He	131265.41	0.36
Cd	111	125	He	19261.22	1.06
Sn	118	103	He	42819.70	1.89
Sb	121	103	He	63143.56	0.97
Ba	137	103	He	20642.55	1.22
Se	78	125	HEHe	1325.06	1.60

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	419485.47	1.76	410461.05	102.2	60	120	
Te (No He)	125	No Gas	9553.32	2.18	9376.54333333333	101.89	60	120	
Bi (No He)	209	No Gas	306325.70	1.71	308551.346666667	99.28	60	120	
Sc	45	He	45342.35	0.28	44372.7533333333	102.19	60	120	
Ge	72	He	31889.79	0.96	30931.1533333333	103.1	60	120	
Rh	103	He	463135.86	0.22	455759.45	101.62	60	120	
Te	125	He	2866.97	0.81	2603.59333333333	110.12	60	120	
Te (HE He)	125	HEHe	4822.51	1.11	4577.42666666667	105.35	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	108CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 16:58:50
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	35795.26	0.84
B	11	45	No Gas	24369.91	0.44
Se	82	125	No Gas	5169.39	0.68
Tl	205	209	No Gas	368683.47	1.20
Pb	208	209	No Gas	263427.31	0.22
Th	232	209	No Gas	366.68	14.96
U	238	209	No Gas	426054.93	1.03
Na	23	45	He	2499658.04	0.95
Mg	24	45	He	1382752.01	1.80
Al	27	45	He	58972.15	0.39
K	39	45	He	1645272.32	1.21
Ca	43	45	He	4517.38	1.66
Ti	47	45	He	5010.20	1.56
V	51	72	He	152644.50	0.45
Cr	52	72	He	180425.71	1.02
Mn	55	72	He	103871.41	1.79
Fe	56	72	He	1510797.84	1.26
Co	59	72	He	272911.93	1.25
Ni	60	72	He	73965.67	1.94
Cu	63	72	He	196799.72	1.92
Zn	66	72	He	35954.87	1.87
As	75	125	He	32741.84	0.23
Sr	88	103	He	139534.82	0.68
Mo	95	103	He	86848.42	1.32
Ag	107	103	He	260205.58	0.70
Cd	111	125	He	38050.78	1.09
Sn	118	103	He	83362.48	0.31
Sb	121	103	He	125210.78	1.15
Ba	137	103	He	41222.13	2.59
Se	78	125	HEHe	2566.73	2.67

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	424396.01	0.95	410461.05	103.39	60	120	
Te (No He)	125	No Gas	9834.65	1.66	9376.54333333333	104.89	60	120	
Bi (No He)	209	No Gas	311009.20	1.43	308551.346666667	100.8	60	120	
Sc	45	He	45044.73	1.28	44372.7533333333	101.51	60	120	
Ge	72	He	31760.64	0.96	30931.1533333333	102.68	60	120	
Rh	103	He	464337.60	0.82	455759.45	101.88	60	120	
Te	125	He	2702.50	5.19	2603.59333333333	103.8	60	120	
Te (HE He)	125	HEHe	4653.12	2.16	4577.42666666667	101.65	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	109CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:01:24
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	75431.32	1.24
B	11	45	No Gas	47834.70	1.23
Se	82	125	No Gas	10579.11	1.88
Tl	205	209	No Gas	761187.02	1.13
Pb	208	209	No Gas	546566.37	1.38
Th	232	209	No Gas	1032035.01	0.71
U	238	209	No Gas	887200.61	0.55
Na	23	45	He	4987849.93	0.97
Mg	24	45	He	2731079.02	0.39
Al	27	45	He	120403.43	1.67
K	39	45	He	3240416.20	0.97
Ca	43	45	He	9156.22	1.09
Ti	47	45	He	10249.60	0.98
V	51	72	He	315197.42	0.87
Cr	52	72	He	369818.23	0.56
Mn	55	72	He	211322.46	1.19
Fe	56	72	He	3112710.27	2.41
Co	59	72	He	558691.27	0.72
Ni	60	72	He	152252.59	1.33
Cu	63	72	He	395493.55	0.87
Zn	66	72	He	73288.76	0.89
As	75	125	He	67150.12	0.54
Sr	88	103	He	284765.33	0.38
Mo	95	103	He	178670.05	0.72
Ag	107	103	He	444089.98	2.57
Cd	111	125	He	77898.79	0.91
Sn	118	103	He	173896.46	0.51
Sb	121	103	He	253531.10	0.38
Ba	137	103	He	85998.53	1.54
Se	78	125	HEHe	5361.00	0.90

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	433101.57	1.56	410461.05	105.52	60	120	
Te (No He)	125	No Gas	9829.08	2.36	9376.54333333333	104.83	60	120	
Bi (No He)	209	No Gas	319964.70	1.05	308551.346666667	103.7	60	120	
Sc	45	He	45857.41	1.15	44372.7533333333	103.35	60	120	
Ge	72	He	32408.84	1.86	30931.1533333333	104.78	60	120	
Rh	103	He	467876.71	0.37	455759.45	102.66	60	120	
Te	125	He	2848.09	1.00	2603.59333333333	109.39	60	120	
Te (HE He)	125	HEHe	4791.83	1.05	4577.42666666667	104.68	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	110_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:03:53
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	103CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.102	1.53	38602.16	0.1	102.36	90	110	
B	11	45	No Gas	0.103	2.20	25149.54	0.1	102.97	90	110	
Se	82	125	No Gas	0.099	3.57	5134.88	0.1	99.19	90	110	
Tl	205	209	No Gas	0.101	1.42	387743.87	0.1	100.87	90	110	
Pb	208	209	No Gas	0.102	0.74	282574.83	0.1	102.4	90	110	
Th	232	209	No Gas	0.121	1.00	512009.61	0.1	121.47	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.101	0.44	453693.85	0.1	101.5	90	110	
Na	23	45	He	10.489	0.58	2635899.75	10	104.89	90	110	
Mg	24	45	He	10.515	1.54	1431602.48	10	105.15	90	110	
Al	27	45	He	10.243	1.20	611090.47	1	1024.27	90	110	ICV Main CR1 Failed
K	39	45	He	10.396	1.08	1710288.46	10	103.96	90	110	
Ca	43	45	He	10.035	3.16	4566.72	10	100.35	90	110	
Ti	47	45	He	0.102	1.61	5174.25	0.1	101.8	90	110	
V	51	72	He	0.101	0.62	158113.51	0.1	101.07	90	110	
Cr	52	72	He	0.101	0.78	186592.14	0.1	101.24	90	110	
Mn	55	72	He	0.102	0.46	107567.17	0.1	102.36	90	110	
Fe	56	72	He	9.877	0.92	15159995.19	1	987.66	90	110	ICV Main CR1 Failed
Co	59	72	He	0.103	0.84	286034.17	0.1	103.09	90	110	
Ni	60	72	He	0.101	0.59	76585.52	0.1	101.19	90	110	
Cu	63	72	He	0.104	0.53	205057.39	0.1	103.86	90	110	
Zn	66	72	He	0.102	0.77	37421.93	0.1	102.32	90	110	
As	75	125	He	0.097	4.80	33507.93	0.1	96.67	90	110	
Sr	88	103	He	0.102	0.53	146383.11	0.1	101.95	90	110	
Mo	95	103	He	0.100	0.49	90222.67	0.1	100.31	90	110	
Ag	107	103	He	0.117	0.49	273527.71	0.1	116.73	90	110	ICV Main CR1 Failed
Cd	111	125	He	0.100	4.63	40172.64	0.1	99.96	90	110	
Sn	118	103	He	0.102	1.24	89322.61	0.1	102.29	90	110	
Sb	121	103	He	0.107	1.79	136974.83	0.1	106.89	90	110	
Ba	137	103	He	0.103	0.67	44435.48	0.1	103.02	90	110	
Se	78	125	HEHe	0.098	1.37	2622.82	0.1	97.6	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	436404.05	0.38	410461.05	106.32	60	120	
Te (No He)	125	No Gas	9840.21	1.39	9376.54333333333	104.94	60	120	
Bi (No He)	209	No Gas	323290.77	0.25	308551.346666667	104.78	60	120	
Sc	45	He	45448.21	0.22	44372.7533333333	102.42	60	120	
Ge	72	He	32186.04	0.94	30931.1533333333	104.06	60	120	
Rh	103	He	472943.29	0.30	455759.45	103.77	60	120	
Te	125	He	2928.10	5.49	2603.59333333333	112.46	60	120	
Te (HE He)	125	HEHe	4819.18	1.52	4577.42666666667	105.28	60	120	

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	111CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:11:51
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	4.00	0.00
B	11	45	No Gas	735.02	10.69
Tl	205	209	No Gas	76.67	61.64
Pb	208	209	No Gas	113.33	41.70
Th	232	209	No Gas	61.67	32.77
U	238	209	No Gas	26.67	108.25
Na	23	45	He	72793.36	1.68
Mg	24	45	He	260.01	40.70
Al	27	45	He	98.33	28.00
K	39	45	He	75241.09	1.64
Ca	43	45	He	32.67	25.49
Ti	47	45	He	10.33	14.78
V	51	72	He	565.02	2.34
Cr	52	72	He	2071.83	5.56
Mn	55	72	He	130.00	39.97
Fe	56	72	He	8959.60	2.35
Co	59	72	He	86.67	6.66
Ni	60	72	He	183.34	39.46
Cu	63	72	He	123.33	9.36
Zn	66	72	He	400.01	19.24
As	75	125	He	57.00	5.75
Sr	88	103	He	123.33	4.68
Mo	95	103	He	7.78	65.47
Ag	107	103	He	128.89	14.24
Cd	111	125	He	2.33	89.21
Sn	118	103	He	20.00	86.60
Sb	121	103	He	440.02	3.94
Ba	137	103	He	3.33	173.21
Se	78	125	HEHe	2.25	38.49

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	406622.47	0.52
Te (No He)	125	No Gas	9294.26	2.05

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	298988.09	0.85
Sc	45	He	43233.77	1.77
Ge	72	He	30024.75	0.03
Rh	103	He	445309.03	0.71
Te	125	He	2680.27	5.49
Te (HE He)	125	HEHe	4465.06	0.48

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	112CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:14:21
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	340.00	8.17
B	11	45	No Gas	848.36	13.18
Tl	205	209	No Gas	3400.48	4.27
Pb	208	209	No Gas	2697.00	4.98
Th	232	209	No Gas	43.33	6.66
U	238	209	No Gas	3927.34	2.72
Na	23	45	He	98152.22	0.35
Mg	24	45	He	13279.75	3.73
Al	27	45	He	701.69	8.80
K	39	45	He	89112.11	2.04
Ca	43	45	He	76.67	22.19
Ti	47	45	He	51.00	5.88
V	51	72	He	1958.48	5.49
Cr	52	72	He	3858.88	3.97
Mn	55	72	He	1270.08	2.73
Fe	56	72	He	24470.99	1.95
Co	59	72	He	2663.62	6.39
Ni	60	72	He	930.04	14.78
Cu	63	72	He	2190.20	2.54
Zn	66	72	He	848.37	5.15
As	75	125	He	377.34	3.98
Sr	88	103	He	1506.77	6.91
Mo	95	103	He	882.25	5.37
Ag	107	103	He	2448.01	5.72
Cd	111	125	He	379.01	5.01
Sn	118	103	He	746.70	9.87
Sb	121	103	He	1593.46	3.16
Ba	137	103	He	390.01	10.26
Se	78	125	HEHe	28.25	9.57

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	402051.74	0.96	406622.47	98.88	60	120	
Te (No He)	125	No Gas	9412.12	2.03	9294.26333333333	101.27	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	294497.66	1.45	298988.093333333	98.5	60	120	
Sc	45	He	42760.16	1.06	43233.7666666667	98.9	60	120	
Ge	72	He	30319.80	0.18	30024.7533333333	100.98	60	120	
Rh	103	He	451690.59	0.82	445309.03	101.43	60	120	
Te	125	He	2624.71	3.61	2680.27333333333	97.93	60	120	
Te (HE He)	125	HEHe	4163.97	5.56	4465.05666666667	93.26	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	113CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:16:52
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	641.35	4.51
B	11	45	No Gas	980.04	7.09
Tl	205	209	No Gas	6891.94	1.64
Pb	208	209	No Gas	5051.07	4.19
Th	232	209	No Gas	31.67	55.45
U	238	209	No Gas	7769.16	0.15
Na	23	45	He	120602.93	0.84
Mg	24	45	He	25649.72	2.20
Al	27	45	He	1305.07	1.38
K	39	45	He	104822.24	0.63
Ca	43	45	He	111.33	6.31
Ti	47	45	He	99.33	3.08
V	51	72	He	3550.46	4.52
Cr	52	72	He	5619.46	3.75
Mn	55	72	He	2156.86	7.93
Fe	56	72	He	43779.60	0.89
Co	59	72	He	5441.10	4.96
Ni	60	72	He	1740.13	11.74
Cu	63	72	He	4167.35	2.23
Zn	66	72	He	978.37	5.65
As	75	125	He	673.52	3.08
Sr	88	103	He	2937.02	6.95
Mo	95	103	He	1636.77	6.70
Ag	107	103	He	4886.43	1.35
Cd	111	125	He	715.69	4.71
Sn	118	103	He	1633.46	7.90
Sb	121	103	He	2616.96	5.44
Ba	137	103	He	726.70	29.43
Se	78	125	HEHe	53.17	9.17

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	399300.23	0.52	406622.47	98.2	60	120	
Te (No He)	125	No Gas	9071.88	2.16	9294.26333333333	97.61	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	291592.58	0.34	298988.093333333	97.53	60	120	
Sc	45	He	42616.44	0.56	43233.7666666667	98.57	60	120	
Ge	72	He	29873.30	0.40	30024.7533333333	99.5	60	120	
Rh	103	He	441898.74	0.32	445309.03	99.23	60	120	
Te	125	He	2550.25	0.73	2680.27333333333	95.15	60	120	
Te (HE He)	125	HEHe	4416.04	1.23	4465.05666666667	98.9	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	114CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:19:41
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3457.07	1.65
B	11	45	No Gas	2775.28	1.56
Se	82	125	No Gas	321.65	24.69
Tl	205	209	No Gas	34809.62	2.89
Pb	208	209	No Gas	25331.47	1.56
Th	232	209	No Gas	46.67	54.98
U	238	209	No Gas	40527.10	1.34
Na	23	45	He	305975.14	1.18
Mg	24	45	He	131011.10	1.69
Al	27	45	He	6091.30	1.75
K	39	45	He	226021.40	0.55
Ca	43	45	He	472.01	5.89
Ti	47	45	He	492.68	7.57
V	51	72	He	15233.08	4.36
Cr	52	72	He	19524.89	1.58
Mn	55	72	He	10347.15	2.52
Fe	56	72	He	166292.60	1.04
Co	59	72	He	27493.11	2.68
Ni	60	72	He	7678.84	4.06
Cu	63	72	He	19226.38	0.71
Zn	66	72	He	3885.57	5.98
As	75	125	He	3272.04	1.07
Sr	88	103	He	13930.40	3.17
Mo	95	103	He	8427.00	2.42
Ag	107	103	He	25211.65	1.70
Cd	111	125	He	3603.47	2.31
Sn	118	103	He	8182.54	8.27
Sb	121	103	He	12525.90	0.91
Ba	137	103	He	4240.76	1.41
Se	78	125	HEHe	258.42	4.78

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	402144.48	1.03	406622.47	98.9	60	120	
Te (No He)	125	No Gas	9204.21	1.90	9294.26333333333	99.03	60	120	
Bi (No He)	209	No Gas	288862.98	1.26	298988.093333333	96.61	60	120	
Sc	45	He	43467.78	1.02	43233.7666666667	100.54	60	120	
Ge	72	He	30038.09	1.44	30024.7533333333	100.04	60	120	
Rh	103	He	444534.32	0.04	445309.03	99.83	60	120	
Te	125	He	2653.60	0.50	2680.27333333333	99	60	120	
Te (HE He)	125	HEHe	4420.37	2.12	4465.05666666667	99	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	115CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:22:11
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	16604.54	0.80
B	11	45	No Gas	11442.76	1.32
Se	82	125	No Gas	2467.28	3.54
Tl	205	209	No Gas	172566.17	0.48
Pb	208	209	No Gas	124690.29	1.09
Th	232	209	No Gas	65.00	23.08
U	238	209	No Gas	196414.72	1.81
Na	23	45	He	1263509.90	0.56
Mg	24	45	He	642293.05	0.17
Al	27	45	He	29187.26	1.11
K	39	45	He	830482.80	0.51
Ca	43	45	He	2262.18	3.07
Ti	47	45	He	2470.88	1.43
V	51	72	He	74617.31	0.51
Cr	52	72	He	89314.62	0.77
Mn	55	72	He	50872.74	2.44
Fe	56	72	He	734160.56	0.69
Co	59	72	He	133354.79	0.76
Ni	60	72	He	36332.56	1.19
Cu	63	72	He	95259.81	1.62
Zn	66	72	He	17630.88	1.89
As	75	125	He	15893.77	0.19
Sr	88	103	He	68743.12	0.72
Mo	95	103	He	42161.59	1.07
Ag	107	103	He	125666.62	0.88
Cd	111	125	He	18456.80	0.96
Sn	118	103	He	40445.71	2.67
Sb	121	103	He	61174.99	2.37
Ba	137	103	He	19600.95	4.63
Se	78	125	HEHe	1256.97	3.56

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	402355.27	0.52	406622.47	98.95	60	120	
Te (No He)	125	No Gas	9288.69	1.95	9294.26333333333	99.94	60	120	
Bi (No He)	209	No Gas	292435.43	1.17	298988.093333333	97.81	60	120	
Sc	45	He	44130.94	1.31	43233.7666666667	102.08	60	120	
Ge	72	He	30258.54	1.26	30024.7533333333	100.78	60	120	
Rh	103	He	449329.23	0.80	445309.03	100.9	60	120	
Te	125	He	2718.06	3.13	2680.27333333333	101.41	60	120	
Te (HE He)	125	HEHe	4584.43	0.40	4465.05666666667	102.67	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	116CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:24:44
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	35161.11	0.28
B	11	45	No Gas	24106.18	2.27
Se	82	125	No Gas	5091.59	1.39
Tl	205	209	No Gas	361251.45	0.35
Pb	208	209	No Gas	255043.10	0.47
Th	232	209	No Gas	63.33	37.31
U	238	209	No Gas	413091.24	0.37
Na	23	45	He	2488138.92	0.88
Mg	24	45	He	1320768.11	0.29
Al	27	45	He	58550.63	0.78
K	39	45	He	1642587.22	0.35
Ca	43	45	He	4541.38	1.86
Ti	47	45	He	5078.89	0.77
V	51	72	He	153039.19	0.32
Cr	52	72	He	179226.08	0.34
Mn	55	72	He	102745.40	1.20
Fe	56	72	He	1504399.77	1.63
Co	59	72	He	269724.16	1.32
Ni	60	72	He	73097.67	0.69
Cu	63	72	He	194125.45	1.29
Zn	66	72	He	35388.50	1.19
As	75	125	He	32401.42	1.07
Sr	88	103	He	138700.47	1.31
Mo	95	103	He	87099.88	0.31
Ag	107	103	He	255328.05	0.35
Cd	111	125	He	37627.32	0.63
Sn	118	103	He	84260.91	0.99
Sb	121	103	He	123229.49	0.31
Ba	137	103	He	40603.76	2.03
Se	78	125	HEHe	2525.14	1.81

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	416626.31	0.85	406622.47	102.46	60	120	
Te (No He)	125	No Gas	9465.50	0.25	9294.26333333333	101.84	60	120	
Bi (No He)	209	No Gas	298649.76	0.72	298988.093333333	99.89	60	120	
Sc	45	He	44135.31	0.26	43233.7666666667	102.09	60	120	
Ge	72	He	30836.40	0.55	30024.7533333333	102.7	60	120	
Rh	103	He	452133.63	0.78	445309.03	101.53	60	120	
Te	125	He	2793.63	0.75	2680.27333333333	104.23	60	120	
Te (HE He)	125	HEHe	4487.06	1.53	4465.05666666667	100.49	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	117CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:27:14
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	71264.26	0.81
B	11	45	No Gas	47266.30	2.10
Se	82	125	No Gas	9988.76	0.30
Tl	205	209	No Gas	717090.82	0.63
Pb	208	209	No Gas	515518.08	0.85
Th	232	209	No Gas	108.33	14.10
U	238	209	No Gas	830141.50	0.52
Na	23	45	He	4821487.64	1.52
Mg	24	45	He	2672824.75	0.70
Al	27	45	He	118038.87	1.04
K	39	45	He	3174400.27	0.53
Ca	43	45	He	8870.70	1.21
Ti	47	45	He	10034.78	0.58
V	51	72	He	306640.96	1.01
Cr	52	72	He	357617.89	0.74
Mn	55	72	He	205491.84	0.83
Fe	56	72	He	2970723.71	0.87
Co	59	72	He	538256.96	0.11
Ni	60	72	He	143672.23	0.21
Cu	63	72	He	384611.54	0.39
Zn	66	72	He	69661.06	0.74
As	75	125	He	64997.75	0.24
Sr	88	103	He	276590.38	0.88
Mo	95	103	He	173866.89	0.96
Ag	107	103	He	501855.36	1.57
Cd	111	125	He	75590.23	0.65
Sn	118	103	He	167684.00	0.05
Sb	121	103	He	242838.02	0.52
Ba	137	103	He	81574.79	2.01
Se	78	125	HEHe	5052.81	3.21

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	414329.63	0.91	406622.47	101.9	60	120	
Te (No He)	125	No Gas	9537.78	0.79	9294.26333333333	102.62	60	120	
Bi (No He)	209	No Gas	302267.79	1.31	298988.093333333	101.1	60	120	
Sc	45	He	43973.73	0.27	43233.7666666667	101.71	60	120	
Ge	72	He	30705.03	0.65	30024.7533333333	102.27	60	120	
Rh	103	He	453862.01	1.04	445309.03	101.92	60	120	
Te	125	He	2712.50	2.84	2680.27333333333	101.2	60	120	
Te (HE He)	125	HEHe	4496.40	2.70	4465.05666666667	100.7	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	118_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:29:44
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.105	0.25	38701.10	0.1	105.15	90	110	
B	11	45	No Gas	0.097	2.89	24203.00	0.1	97.24	90	110	
Se	82	125	No Gas	0.103	2.73	5249.65	0.1	103.11	90	110	
Tl	205	209	No Gas	0.102	1.14	387222.83	0.1	102.03	90	110	
Pb	208	209	No Gas	0.103	1.11	279579.23	0.1	102.8	90	110	
Th	232	209	No Gas	2690.597	0.31	505370.46	0.1	2690596.85	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.102	1.43	445648.90	0.1	101.75	90	110	
Na	23	45	He	10.308	1.77	2606671.06	10	103.08	90	110	
Mg	24	45	He	10.511	2.11	1442036.28	10	105.11	90	110	
Al	27	45	He	10.108	1.07	613150.11	1	1010.83	90	110	ICV Main CR1 Failed
K	39	45	He	10.170	2.42	1703764.35	10	101.7	90	110	
Ca	43	45	He	10.071	3.85	4640.08	10	100.71	90	110	
Ti	47	45	He	0.100	0.87	5163.92	0.1	99.62	90	110	
V	51	72	He	0.099	2.52	158816.34	0.1	98.82	90	110	
Cr	52	72	He	0.098	1.37	184732.56	0.1	98.06	90	110	
Mn	55	72	He	0.100	2.67	108268.80	0.1	100.49	90	110	
Fe	56	72	He	9.748	1.11	15162965.19	1	974.77	90	110	ICV Main CR1 Failed
Co	59	72	He	0.100	1.08	283399.07	0.1	100.39	90	110	
Ni	60	72	He	0.100	1.58	76076.37	0.1	100.49	90	110	
Cu	63	72	He	0.101	2.09	203861.94	0.1	100.93	90	110	
Zn	66	72	He	0.101	1.65	37321.67	0.1	101.42	90	110	
As	75	125	He	0.098	1.61	33578.94	0.1	97.99	90	110	
Sr	88	103	He	0.102	0.84	146325.86	0.1	101.96	90	110	
Mo	95	103	He	0.100	0.12	90070.51	0.1	100	90	110	
Ag	107	103	He	0.104	0.50	271908.22	0.1	104.11	90	110	
Cd	111	125	He	0.101	1.60	40348.81	0.1	101.34	90	110	
Sn	118	103	He	0.104	0.32	90154.69	0.1	103.75	90	110	
Sb	121	103	He	0.108	1.64	136230.10	0.1	107.73	90	110	
Ba	137	103	He	0.105	3.03	44315.35	0.1	105.05	90	110	
Se	78	125	HEHe	0.101	1.29	2639.66	0.1	101.33	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	430312.25	0.66	406622.47	105.83	60	120	
Te (No He)	125	No Gas	9742.36	1.19	9294.26333333333	104.82	60	120	
Bi (No He)	209	No Gas	318769.24	0.72	298988.093333333	106.62	60	120	
Sc	45	He	45369.18	0.88	43233.7666666667	104.94	60	120	
Ge	72	He	32206.08	1.09	30024.7533333333	107.27	60	120	
Rh	103	He	470123.33	0.64	445309.03	105.57	60	120	
Te	125	He	2878.09	1.36	2680.27333333333	107.38	60	120	
Te (HE He)	125	HEHe	4634.78	0.67	4465.05666666667	103.8	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	119_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:47:37
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	250.84	6.67	0.001	
B	11	45	No Gas	-0.001	N/A	486.68	0.02	
Se	82	125	No Gas	0.000	51985.50	-118.27	0.001	
Tl	205	209	No Gas	0.000	N/A	60.00	0.001	
Pb	208	209	No Gas	0.000	N/A	86.67	0.001	
Th	232	209	No Gas	-0.291	N/A	10.00	0.01	
U	238	209	No Gas	0.000	50.82	36.67	0.01	
Na	23	45	He	-0.016	N/A	68197.66	1	
Mg	24	45	He	0.000	101.14	313.35	1	
Al	27	45	He	0.000	64.55	105.00	0.1	
K	39	45	He	0.000	N/A	74135.42	1	
Ca	43	45	He	-0.019	N/A	24.00	1	
Ti	47	45	He	0.000	N/A	5.67	0.01	
V	51	72	He	0.000	N/A	460.01	0.002	
Cr	52	72	He	0.000	242.66	2113.51	0.001	
Mn	55	72	He	0.000	N/A	106.67	0.002	
Fe	56	72	He	0.000	9.46	9159.73	0.1	
Co	59	72	He	0.000	N/A	76.67	0.001	
Ni	60	72	He	0.000	92.00	223.34	0.001	
Cu	63	72	He	0.000	N/A	120.00	0.002	
Zn	66	72	He	-0.001	N/A	215.00	0.01	
As	75	125	He	0.000	N/A	49.00	0.001	
Sr	88	103	He	0.000	N/A	93.33	0.01	
Mo	95	103	He	0.000	375.12	10.00	0.002	
Ag	107	103	He	0.000	N/A	52.22	0.001	
Cd	111	125	He	0.000	113.76	3.67	0.001	
Sn	118	103	He	0.000	193.03	30.00	0.001	
Sb	121	103	He	0.000	N/A	326.68	0.001	
Ba	137	103	He	0.000	0.99	20.00	0.002	
Se	78	125	HEHe	0.000	N/A	1.92	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	395535.05	1.28	406622.47	97.27	60	120	
Te (No He)	125	No Gas	9008.52	1.43	9294.26333333333	96.93	60	120	
Bi (No He)	209	No Gas	286216.91	1.79	298988.093333333	95.73	60	120	
Sc	45	He	42616.47	0.45	43233.7666666667	98.57	60	120	
Ge	72	He	29265.38	1.64	30024.7533333333	97.47	60	120	
Rh	103	He	437426.05	0.82	445309.03	98.23	60	120	
Te	125	He	2668.05	4.66	2680.27333333333	99.54	60	120	
Te (HE He)	125	HEHe	4346.69	0.37	4465.05666666667	97.35	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	120LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:50:41
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	402055.36	1.87	406622.47	98.88	60	120	
Te (No He)	125	No Gas	9000.73	0.34	9294.26333333333	96.84	60	120	
Bi (No He)	209	No Gas	287145.44	0.63	298988.093333333	96.04	60	120	
Sc	45	He	42849.36	1.10	43233.7666666667	99.11	60	120	
Ge	72	He	30177.29	0.85	30024.7533333333	100.51	60	120	
Rh	103	He	440604.79	0.52	445309.03	98.94	60	120	
Te	125	He	2636.93	0.99	2680.27333333333	98.38	60	120	
Te (HE He)	125	HEHe	4474.73	0.10	4465.05666666667	100.22	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	121ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:54:05
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	103.086	1.48	23087807.16	100	80	120	
Mg	24	45	He	100.852	1.81	12582761.48	100	80	120	
Al	27	45	He	101.918	2.11	5621840.75	100	80	120	
K	39	45	He	101.128	2.50	14768636.86	100	80	120	
Ca	43	45	He	100.734	1.33	41943.91	100	80	120	
Ti	47	45	He	2.073	1.76	97530.23	2	80	120	
Fe	56	72	He	98.183	3.66	139020487.93	100	80	120	
Mo	95	103	He	2.182	2.21	1715870.73	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	412190.18	0.31	406622.47	101.37	60	120	
Te (No He)	125	No Gas	9047.44	2.91	9294.26333333333	97.34	60	120	
Bi (No He)	209	No Gas	286785.61	0.40	298988.093333333	95.92	60	120	
Sc	45	He	41267.06	1.83	43233.7666666667	95.45	60	120	
Ge	72	He	29344.50	2.38	30024.7533333333	97.73	60	120	
Rh	103	He	410604.76	1.23	445309.03	92.21	60	120	
Te	125	He	2493.57	4.86	2680.27333333333	93.03	60	120	
Te (HE He)	125	HEHe	4109.61	1.56	4465.05666666667	92.04	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	122ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 17:56:34
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	2.11	6308.00	0.02	80	120	
B	11	45	No Gas	0.019	0.52	4690.77	0.02	80	120	
Se	82	125	No Gas	0.020	14.01	786.33	0.02	80	120	
Tl	205	209	No Gas	0.020	0.68	65268.28	0.02	80	120	
Pb	208	209	No Gas	0.021	2.45	48874.52	0.02	80	120	
U	238	209	No Gas	0.021	1.55	77954.99	0.02	80	120	
Na	23	45	He	103.031	0.47	21784603.84	100	80	120	
Mg	24	45	He	100.321	1.97	11816692.74	100	80	120	
Al	27	45	He	101.439	0.59	5283054.71	100	80	120	
K	39	45	He	101.460	1.06	13988572.71	100	80	120	
Ca	43	45	He	99.976	0.32	39301.26	100	80	120	
Ti	47	45	He	2.052	1.28	91157.63	2	80	120	
V	51	72	He	0.020	1.84	27711.51	0.02	80	120	
Cr	52	72	He	0.021	1.24	35874.25	0.02	80	120	
Mn	55	72	He	0.021	2.03	19853.88	0.02	80	120	
Fe	56	72	He	98.345	1.14	132579821.36	100	80	120	
Co	59	72	He	0.021	2.55	50357.71	0.02	80	120	
Ni	60	72	He	0.020	1.52	13553.24	0.02	80	120	
Cu	63	72	He	0.021	1.18	36332.87	0.02	80	120	
Zn	66	72	He	0.020	5.27	6749.96	0.02	80	120	
As	75	125	He	0.021	4.40	5915.88	0.02	80	120	
Sr	88	103	He	0.022	1.84	26508.38	0.02	80	120	
Mo	95	103	He	2.171	1.91	1634035.31	2	80	120	
Ag	107	103	He	0.021	0.22	45406.54	0.02	80	120	
Cd	111	125	He	0.022	5.06	7029.43	0.02	80	120	
Sn	118	103	He	0.021	2.83	15298.69	0.02	80	120	
Sb	121	103	He	0.022	4.67	23620.41	0.02	80	120	
Ba	137	103	He	0.022	0.49	7655.60	0.02	80	120	
Se	78	125	HEHe	0.020	3.48	453.18	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	382105.42	0.49	406622.47	93.97	60	120	
Te (No He)	125	No Gas	8543.78	1.48	9294.26333333333	91.93	60	120	
Bi (No He)	209	No Gas	274651.31	0.93	298988.093333333	91.86	60	120	
Sc	45	He	38959.58	1.49	43233.7666666667	90.11	60	120	
Ge	72	He	27927.18	1.05	30024.7533333333	93.01	60	120	
Rh	103	He	392915.10	0.22	445309.03	88.23	60	120	
Te	125	He	2321.32	3.57	2680.27333333333	86.61	60	120	
Te (HE He)	125	HEHe	3999.92	3.18	4465.05666666667	89.58	60	120	

Sample Report

Sample Name	BLANK WG791805
File Name	123SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:00:27
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	176.22	4.67	5	
B	11	45	No Gas	-0.001	N/A	466.68	5	
Se	82	125	No Gas	-0.002	N/A	-198.71	5	
Tl	205	209	No Gas	0.000	30.21	130.00	5	
Pb	208	209	No Gas	0.000	65.78	203.34	5	
Th	232	209	No Gas	-0.141	N/A	36.67	5	
U	238	209	No Gas	0.000	N/A	13.33	5	
Na	23	45	He	0.018	45.34	66108.29	90	
Mg	24	45	He	0.014	9.66	1653.49	90	
Al	27	45	He	0.013	11.23	646.68	90	
K	39	45	He	0.006	53.36	65662.34	90	
Ca	43	45	He	0.037	91.64	40.67	90	
Ti	47	45	He	0.000	31.47	15.00	5	
V	51	72	He	0.000	N/A	430.01	5	
Cr	52	72	He	0.000	32.06	2215.19	5	
Mn	55	72	He	0.000	47.64	186.67	5	
Fe	56	72	He	0.013	6.97	24781.41	90	
Co	59	72	He	0.000	N/A	73.33	5	
Ni	60	72	He	0.000	11.03	376.68	5	
Cu	63	72	He	0.001	15.89	1410.10	5	
Zn	66	72	He	-0.001	N/A	216.67	5	
As	75	125	He	0.000	20.84	76.17	5	
Sr	88	103	He	0.000	232.77	150.00	5	
Mo	95	103	He	0.000	19.10	160.00	5	
Ag	107	103	He	0.000	131.18	156.67	1	
Cd	111	125	He	0.000	N/A	1.00	5	
Sn	118	103	He	0.000	38.53	146.67	2	
Sb	121	103	He	0.001	15.39	1483.44	1	
Ba	137	103	He	0.000	34.95	46.67	2	
Se	78	125	HEHe	0.000	N/A	1.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	341197.99	1.76	406622.47	83.91	60	120	
Te (No He)	125	No Gas	8132.42	3.75	9294.26333333333	87.5	60	120	
Bi (No He)	209	No Gas	278008.02	0.36	298988.093333333	92.98	60	120	
Sc	45	He	37312.08	1.39	43233.7666666667	86.3	60	120	
Ge	72	He	28695.32	0.59	30024.7533333333	95.57	60	120	
Rh	103	He	409502.81	0.50	445309.03	91.96	60	120	
Te	125	He	2391.33	1.17	2680.27333333333	89.22	60	120	
Te (HE He)	125	HEHe	3961.90	1.52	4465.05666666667	88.73	60	120	

Sample Report

Sample Name	LCS WG791805
File Name	124SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:02:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.050	3.00	13227.19	5	
B	11	45	No Gas	0.045	6.38	8267.35	5	
Se	82	125	No Gas	0.050	2.83	1932.03	5	
Tl	205	209	No Gas	0.052	1.24	150459.16	5	
Pb	208	209	No Gas	0.053	0.68	109534.41	5	
Th	232	209	No Gas	1369.061	1.45	196247.80	5	>LDR
U	238	209	No Gas	0.053	1.73	175721.70	5	
Na	23	45	He	5.214	1.00	1009337.90	90	
Mg	24	45	He	5.072	2.13	514713.29	90	
Al	27	45	He	5.047	0.99	226438.92	90	
K	39	45	He	5.153	1.98	673738.27	90	
Ca	43	45	He	5.334	3.65	1832.79	90	
Ti	47	45	He	0.052	1.97	1994.14	5	
V	51	72	He	0.049	0.94	61951.12	5	
Cr	52	72	He	0.049	0.60	73869.86	5	
Mn	55	72	He	0.050	1.27	42275.10	5	
Fe	56	72	He	4.850	1.46	5948243.04	90	
Co	59	72	He	0.051	1.51	113557.08	5	
Ni	60	72	He	0.051	1.69	30709.60	5	
Cu	63	72	He	0.052	0.12	83024.52	5	
Zn	66	72	He	0.049	2.15	14520.73	5	
As	75	125	He	0.052	3.99	13238.26	5	
Sr	88	103	He	0.051	0.79	56713.43	5	
Mo	95	103	He	0.051	1.90	36080.46	5	
Ag	107	103	He	0.053	1.19	106889.82	1	
Cd	111	125	He	0.053	4.72	15648.73	5	
Sn	118	103	He	0.049	4.67	33377.04	2	
Sb	121	103	He	0.056	0.98	55223.03	1	
Ba	137	103	He	0.053	1.04	17417.93	2	
Se	78	125	HEHe	0.051	0.29	1053.96	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	340971.01	1.29	406622.47	83.85	60	120	
Te (No He)	125	No Gas	8401.47	2.31	9294.26333333333	90.39	60	120	
Bi (No He)	209	No Gas	270277.38	0.43	298988.093333333	90.4	60	120	
Sc	45	He	37277.51	0.98	43233.7666666667	86.22	60	120	
Ge	72	He	28191.03	0.55	30024.7533333333	93.89	60	120	
Rh	103	He	406557.13	0.51	445309.03	91.3	60	120	
Te	125	He	2376.89	3.64	2680.27333333333	88.68	60	120	
Te (HE He)	125	HEHe	4095.94	0.26	4465.05666666667	91.73	60	120	

Sample Report

Sample Name	LCSD WG791805
File Name	125SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:04:58
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.052	1.85	13607.52	5	
B	11	45	No Gas	0.048	4.00	8790.97	5	
Se	82	125	No Gas	0.051	9.10	1916.35	5	
Tl	205	209	No Gas	0.054	1.05	154979.78	5	
Pb	208	209	No Gas	0.054	0.95	112458.07	5	
Th	232	209	No Gas	1416.312	0.68	202507.59	5	>LDR
U	238	209	No Gas	0.054	0.39	181638.15	5	
Na	23	45	He	5.353	1.75	1018476.34	90	
Mg	24	45	He	5.193	1.58	518844.99	90	
Al	27	45	He	5.175	2.67	228572.23	90	
K	39	45	He	5.257	2.59	675398.69	90	
Ca	43	45	He	5.270	6.77	1782.78	90	
Ti	47	45	He	0.052	2.36	1976.14	5	
V	51	72	He	0.050	1.02	62682.96	5	
Cr	52	72	He	0.050	1.03	75399.95	5	
Mn	55	72	He	0.049	0.92	41797.40	5	
Fe	56	72	He	4.939	0.89	6019359.28	90	
Co	59	72	He	0.052	2.95	114410.46	5	
Ni	60	72	He	0.052	3.05	31067.01	5	
Cu	63	72	He	0.052	1.43	82408.02	5	
Zn	66	72	He	0.051	1.39	14794.33	5	
As	75	125	He	0.055	4.67	13244.10	5	
Sr	88	103	He	0.052	1.37	56536.04	5	
Mo	95	103	He	0.053	1.35	36185.15	5	
Ag	107	103	He	0.055	1.35	109552.49	1	
Cd	111	125	He	0.057	4.70	15908.69	5	
Sn	118	103	He	0.053	2.42	34706.94	2	
Sb	121	103	He	0.058	2.03	55417.68	1	
Ba	137	103	He	0.053	2.16	16927.30	2	
Se	78	125	HEHe	0.053	1.17	1095.29	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	341490.40	0.95	406622.47	83.98	60	120	
Te (No He)	125	No Gas	8255.83	3.57	9294.26333333333	88.83	60	120	
Bi (No He)	209	No Gas	269592.72	0.73	298988.093333333	90.17	60	120	
Sc	45	He	36701.62	0.98	43233.7666666667	84.89	60	120	
Ge	72	He	28015.11	2.01	30024.7533333333	93.31	60	120	
Rh	103	He	395485.27	1.57	445309.03	88.81	60	120	
Te	125	He	2256.87	3.40	2680.27333333333	84.2	60	120	
Te (HE He)	125	HEHe	4068.27	1.34	4465.05666666667	91.11	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	126SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:07:14
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	43.43	12.00	5	
B	11	45	No Gas	0.302	2.53	43317.66	5	
Se	82	125	No Gas	0.002	252.61	-24.61	5	
Tl	205	209	No Gas	0.000	33.81	486.69	5	
Pb	208	209	No Gas	0.001	11.83	1380.10	5	
Th	232	209	No Gas	2.697	14.69	316.68	5	
U	238	209	No Gas	0.025	1.77	58867.66	5	
Na	23	45	He	4547.773	2.78	770740868.52	90	>LDR
Mg	24	45	He	907.322	2.20	85932262.05	90	>LDR
Al	27	45	He	0.022	15.53	1013.38	90	
K	39	45	He	11.185	3.08	1294309.98	90	
Ca	43	45	He	1049.548	1.17	331522.11	90	>LDR
Ti	47	45	He	0.000	43.92	17.67	5	
V	51	72	He	0.007	2.76	10482.18	5	
Cr	52	72	He	0.000	38.93	2831.97	5	
Mn	55	72	He	0.463	1.71	451286.61	5	
Fe	56	72	He	0.077	1.08	118407.57	90	
Co	59	72	He	0.003	4.21	7418.69	5	
Ni	60	72	He	0.006	3.58	4257.35	5	
Cu	63	72	He	0.001	9.31	1943.50	5	
Zn	66	72	He	0.007	7.96	2591.92	5	
As	75	125	He	0.003	4.49	657.51	5	
Sr	88	103	He	22.280	2.71	18631163.06	5	>LDR
Mo	95	103	He	0.017	2.55	8985.13	5	
Ag	107	103	He	0.000	32.68	305.56	1	
Cd	111	125	He	0.000	7.38	30.00	5	
Sn	118	103	He	0.001	16.09	280.01	2	
Sb	121	103	He	0.004	11.04	3533.84	1	
Ba	137	103	He	0.036	1.41	8923.05	2	
Se	78	125	HEHe	0.011	4.66	171.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	281808.80	1.79	406622.47	69.3	60	120	
Te (No He)	125	No Gas	6233.66	1.13	9294.26333333333	67.07	60	120	
Bi (No He)	209	No Gas	193380.92	2.18	298988.093333333	64.68	60	120	
Sc	45	He	34812.52	2.49	43233.7666666667	80.52	60	120	
Ge	72	He	32435.44	0.34	30024.7533333333	108.03	60	120	
Rh	103	He	304758.00	2.58	445309.03	68.44	60	120	
Te	125	He	1723.45	1.35	2680.27333333333	64.3	60	120	
Te (HE He)	125	HEHe	3094.02	2.05	4465.05666666667	69.29	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	127SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:09:48
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	17.46	20.67	5	
B	11	45	No Gas	0.334	1.82	10890.69	5	
Se	82	125	No Gas	-0.024	N/A	-249.71	5	
Tl	205	209	No Gas	0.000	18.80	256.68	5	
Pb	208	209	No Gas	0.001	16.39	343.34	5	
Th	232	209	No Gas	8.463	35.68	235.00	5	
U	238	209	No Gas	0.026	2.97	13690.77	5	
Na	23	45	He	4982.444	1.47	175259704.05	90	>LDR
Mg	24	45	He	984.146	0.33	19338755.54	90	>LDR
Al	27	45	He	0.064	9.09	640.02	90	
K	39	45	He	12.011	1.38	337748.84	90	
Ca	43	45	He	1109.842	1.89	72742.93	90	>LDR
Ti	47	45	He	0.001	6.53	16.67	5	
V	51	72	He	0.009	4.68	2563.58	5	
Cr	52	72	He	0.004	1.46	2665.27	5	
Mn	55	72	He	0.677	0.16	102235.33	5	
Fe	56	72	He	0.306	1.73	74219.65	90	
Co	59	72	He	0.005	15.15	1970.17	5	
Ni	60	72	He	0.012	9.97	1386.76	5	
Cu	63	72	He	0.003	9.04	1023.39	5	
Zn	66	72	He	0.013	18.24	978.37	5	
As	75	125	He	0.004	13.43	205.83	5	
Sr	88	103	He	22.899	1.21	4233334.41	5	
Mo	95	103	He	0.018	4.00	2112.39	5	
Ag	107	103	He	0.000	29.31	153.33	1	
Cd	111	125	He	0.001	26.06	27.67	5	
Sn	118	103	He	0.001	43.84	140.00	2	
Sb	121	103	He	0.005	17.23	1143.41	1	
Ba	137	103	He	0.041	7.93	2210.22	2	
Se	78	125	HEHe	0.013	3.71	47.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	307338.50	0.84	406622.47	75.58	60	120	
Te (No He)	125	No Gas	6848.39	1.58	9294.26333333333	73.68	60	120	
Bi (No He)	209	No Gas	213306.40	1.60	298988.093333333	71.34	60	120	
Sc	45	He	36103.39	0.91	43233.7666666667	83.51	60	120	
Ge	72	He	25078.61	0.56	30024.7533333333	83.53	60	120	
Rh	103	He	336739.16	1.59	445309.03	75.62	60	120	
Te	125	He	1997.93	6.16	2680.27333333333	74.54	60	120	
Te (HE He)	125	HEHe	3376.08	2.88	4465.05666666667	75.61	60	120	

Sample Report

Sample Name	PS L766887-01 WG791805
File Name	128SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:12:07
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.060	1.75	11618.52	5	
B	11	45	No Gas	0.367	2.22	47124.11	5	
Se	82	125	No Gas	0.063	6.00	1601.32	5	
Tl	205	209	No Gas	0.060	2.66	111546.55	5	
Pb	208	209	No Gas	0.060	0.99	79516.77	5	
Th	232	209	No Gas	0.886	12.51	116.67	5	
U	238	209	No Gas	0.025	0.79	52433.24	5	
Na	23	45	He	4614.625	2.01	694572922.98	90	>LDR
Mg	24	45	He	919.650	0.17	77361027.18	90	>LDR
Al	27	45	He	0.122	0.76	4610.77	90	
K	39	45	He	11.587	1.61	1189351.78	90	
Ca	43	45	He	1037.740	1.11	291084.27	90	>LDR
Ti	47	45	He	0.057	1.99	1800.78	5	
V	51	72	He	0.050	2.12	66975.01	5	
Cr	52	72	He	0.040	1.39	63543.28	5	
Mn	55	72	He	0.473	1.42	423088.17	5	
Fe	56	72	He	0.103	1.05	142522.54	90	
Co	59	72	He	0.044	1.34	102159.44	5	
Ni	60	72	He	0.049	0.91	30839.84	5	
Cu	63	72	He	0.041	1.83	69510.60	5	
Zn	66	72	He	0.048	1.51	14917.80	5	
As	75	125	He	0.062	7.57	11488.75	5	
Sr	88	103	He	21.463	0.32	16580443.50	5	>LDR
Mo	95	103	He	0.079	1.03	38246.05	5	
Ag	107	103	He	0.030	0.97	42741.55	1	
Cd	111	125	He	0.055	7.93	11757.59	5	
Sn	118	103	He	0.057	1.66	26923.05	2	
Sb	121	103	He	0.063	1.18	43277.67	1	
Ba	137	103	He	0.098	3.77	22188.14	2	
Se	78	125	HEHe	0.065	3.05	1106.13	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	252633.19	1.34	406622.47	62.13	60	120	
Te (No He)	125	No Gas	5561.15	2.88	9294.26333333333	59.83	60	120	ISTD Failed
Bi (No He)	209	No Gas	172470.47	0.68	298988.093333333	57.68	60	120	ISTD Failed
Sc	45	He	30911.57	1.65	43233.7666666667	71.5	60	120	
Ge	72	He	29726.29	0.38	30024.7533333333	99.01	60	120	
Rh	103	He	281409.52	0.29	445309.03	63.19	60	120	
Te	125	He	1733.45	7.23	2680.27333333333	64.67	60	120	
Te (HE He)	125	HEHe	3347.41	3.22	4465.05666666667	74.97	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	129SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:14:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.052	3.60	9769.86	5	
B	11	45	No Gas	0.375	2.25	46575.82	5	
Se	82	125	No Gas	0.038	19.79	961.15	5	
Tl	205	209	No Gas	0.052	0.14	93249.17	5	
Pb	208	209	No Gas	0.053	1.72	67027.41	5	
Th	232	209	No Gas	1443.138	1.58	127085.74	5	>LDR
U	238	209	No Gas	0.080	0.99	165064.95	5	
Na	23	45	He	4597.170	1.64	681233163.18	90	>LDR
Mg	24	45	He	911.514	2.30	75470115.54	90	>LDR
Al	27	45	He	4.882	2.18	178767.87	90	
K	39	45	He	15.818	3.10	1578374.15	90	
Ca	43	45	He	1044.945	2.27	288510.65	90	>LDR
Ti	47	45	He	0.051	3.27	1604.09	5	
V	51	72	He	0.043	1.67	58713.08	5	
Cr	52	72	He	0.035	0.65	57254.04	5	
Mn	55	72	He	0.489	1.13	445648.46	5	
Fe	56	72	He	3.379	1.61	4459434.20	90	
Co	59	72	He	0.037	2.67	88851.72	5	
Ni	60	72	He	0.039	2.78	25195.63	5	
Cu	63	72	He	0.035	1.80	59556.40	5	
Zn	66	72	He	0.035	1.80	11231.11	5	
As	75	125	He	0.058	6.21	10550.04	5	
Sr	88	103	He	22.637	0.79	17397494.32	5	>LDR
Mo	95	103	He	0.071	2.27	34498.73	5	
Ag	107	103	He	0.050	0.30	70483.89	1	
Cd	111	125	He	0.048	8.19	10141.34	5	
Sn	118	103	He	0.051	1.41	23757.22	2	
Sb	121	103	He	0.060	1.34	40476.02	1	
Ba	137	103	He	0.087	3.37	19644.25	2	
Se	78	125	HEHe	0.058	2.98	956.28	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	244239.09	1.43	406622.47	60.07	60	120	
Te (No He)	125	No Gas	5600.05	2.74	9294.26333333333	60.25	60	120	
Bi (No He)	209	No Gas	166055.53	1.17	298988.093333333	55.54	60	120	ISTD Failed
Sc	45	He	30431.68	1.53	43233.7666666667	70.39	60	120	
Ge	72	He	30324.22	1.70	30024.7533333333	101	60	120	
Rh	103	He	279965.93	0.34	445309.03	62.87	60	120	
Te	125	He	1694.56	7.39	2680.27333333333	63.22	60	120	
Te (HE He)	125	HEHe	3259.05	1.25	4465.05666666667	72.99	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	130SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:16:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.053	2.56	9716.50	5	
B	11	45	No Gas	0.385	2.29	46569.08	5	
Se	82	125	No Gas	0.035	9.37	850.31	5	
Tl	205	209	No Gas	0.053	2.49	90785.07	5	
Pb	208	209	No Gas	0.053	1.86	65101.19	5	
Th	232	209	No Gas	1459.211	0.95	124657.04	5	>LDR
U	238	209	No Gas	0.080	2.78	159783.22	5	
Na	23	45	He	4724.265	0.91	686516816.44	90	>LDR
Mg	24	45	He	937.080	1.46	76079807.20	90	>LDR
Al	27	45	He	4.939	1.44	177344.72	90	
K	39	45	He	16.473	1.02	1609874.82	90	
Ca	43	45	He	1060.506	0.83	287165.34	90	>LDR
Ti	47	45	He	0.051	3.06	1582.42	5	
V	51	72	He	0.043	1.64	58040.40	5	
Cr	52	72	He	0.035	0.95	56183.33	5	
Mn	55	72	He	0.504	1.04	449279.07	5	
Fe	56	72	He	3.464	1.31	4468403.68	90	
Co	59	72	He	0.038	1.45	88281.88	5	
Ni	60	72	He	0.039	3.20	24684.64	5	
Cu	63	72	He	0.035	0.55	58331.68	5	
Zn	66	72	He	0.036	1.56	11201.09	5	
As	75	125	He	0.057	3.48	10343.72	5	
Sr	88	103	He	22.910	0.94	17436882.24	5	>LDR
Mo	95	103	He	0.072	1.38	34473.23	5	
Ag	107	103	He	0.050	1.54	69332.67	1	
Cd	111	125	He	0.047	2.38	9944.86	5	
Sn	118	103	He	0.051	0.99	23460.05	2	
Sb	121	103	He	0.058	1.68	39085.21	1	
Ba	137	103	He	0.087	3.61	19504.17	2	
Se	78	125	HEHe	0.059	3.55	948.86	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	238168.52	1.62	406622.47	58.57	60	120	ISTD Failed
Te (No He)	125	No Gas	5507.79	2.92	9294.26333333333	59.26	60	120	ISTD Failed
Bi (No He)	209	No Gas	161085.85	1.77	298988.093333333	53.88	60	120	ISTD Failed
Sc	45	He	29838.24	1.61	43233.7666666667	69.02	60	120	
Ge	72	He	29636.13	1.12	30024.7533333333	98.71	60	120	
Rh	103	He	277270.99	1.80	445309.03	62.26	60	120	
Te	125	He	1705.67	3.50	2680.27333333333	63.64	60	120	
Te (HE He)	125	HEHe	3170.37	1.75	4465.05666666667	71	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	131_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 18:18:58
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.112	1.37	27934.64	0.1	112.03	90	110	CCV Main CR1 Failed
B	11	45	No Gas	0.106	1.80	17832.37	0.1	106.05	90	110	
Se	82	125	No Gas	0.081	7.11	3125.14	0.1	81.34	90	110	CCV Main CR1 Failed
Tl	205	209	No Gas	0.101	1.05	268784.88	0.1	101.11	90	110	
Pb	208	209	No Gas	0.102	2.02	193736.48	0.1	101.68	90	110	
Th	232	209	No Gas	0.704	33.25	138.33	0.1	704.15	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.100	1.64	305537.12	0.1	99.6	90	110	
Na	23	45	He	12.511	3.90	2421261.47	10	125.11	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.030	1.54	1058788.99	10	100.3	90	110	
Al	27	45	He	1.003	1.28	46875.83	1	100.29	90	110	
K	39	45	He	10.000	1.23	1290127.77	10	100	90	110	
Ca	43	45	He	10.162	4.53	3602.45	10	101.62	90	110	
Ti	47	45	He	0.100	1.75	3979.21	0.1	99.79	90	110	
V	51	72	He	0.100	1.23	124038.50	0.1	100.04	90	110	
Cr	52	72	He	0.101	0.83	146971.19	0.1	101.17	90	110	
Mn	55	72	He	0.098	2.35	81857.17	0.1	98.48	90	110	
Fe	56	72	He	0.990	0.41	1195100.77	1	99.04	90	110	
Co	59	72	He	0.103	0.58	223702.77	0.1	102.73	90	110	
Ni	60	72	He	0.103	1.66	60068.14	0.1	102.86	90	110	
Cu	63	72	He	0.104	0.23	162382.80	0.1	104.21	90	110	
Zn	66	72	He	0.101	0.48	28676.90	0.1	101.01	90	110	
As	75	125	He	0.107	4.10	26172.10	0.1	107.17	90	110	
Sr	88	103	He	0.099	0.97	109846.19	0.1	99.37	90	110	
Mo	95	103	He	0.100	0.87	69037.68	0.1	99.52	90	110	
Ag	107	103	He	0.102	0.75	205168.34	0.1	101.99	90	110	
Cd	111	125	He	0.104	4.10	29587.13	0.1	104.27	90	110	
Sn	118	103	He	0.095	1.33	63910.13	0.1	95.49	90	110	
Sb	121	103	He	0.098	1.82	95114.49	0.1	97.62	90	110	
Ba	137	103	He	0.097	3.46	31452.94	0.1	96.82	90	110	
Se	78	125	HEHe	0.103	2.29	2169.41	0.1	103.42	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	291569.12	1.32	406622.47	71.71	60	120	
Te (No He)	125	No Gas	7407.58	3.43	9294.26333333333	79.7	60	120	
Bi (No He)	209	No Gas	223327.38	2.21	298988.093333333	74.69	60	120	
Sc	45	He	34907.25	1.84	43233.7666666667	80.74	60	120	
Ge	72	He	24842.69	0.05	30024.7533333333	82.74	60	120	
Rh	103	He	362116.18	1.36	445309.03	81.32	60	120	
Te	125	He	2053.50	4.53	2680.27333333333	76.62	60	120	
Te (HE He)	125	HEHe	3732.84	1.27	4465.05666666667	83.6	60	120	

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	132CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:12:30
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	111CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	133CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:15:01
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3.33	91.65
B	11	45	No Gas	401.68	8.00
Tl	205	209	No Gas	30.00	0.00
Pb	208	209	No Gas	33.33	75.50
Th	232	209	No Gas	28.33	53.91
U	238	209	No Gas	20.00	86.60
Na	23	45	He	94582.43	1.24
Mg	24	45	He	426.68	14.32
Al	27	45	He	88.33	21.43
K	39	45	He	73070.35	0.33
Ca	43	45	He	30.00	23.09
Ti	47	45	He	7.00	28.57
V	51	72	He	611.69	6.81
Cr	52	72	He	2113.50	2.15
Mn	55	72	He	133.33	28.39
Fe	56	72	He	9499.95	2.90
Co	59	72	He	90.00	40.06
Ni	60	72	He	206.67	29.17
Cu	63	72	He	100.00	43.59
Zn	66	72	He	185.00	14.30
As	75	125	He	54.67	1.40
Sr	88	103	He	206.67	18.32
Mo	95	103	He	11.11	34.61
Ag	107	103	He	18.89	10.18
Cd	111	125	He	1.33	86.60
Sn	118	103	He	30.00	88.19
Sb	121	103	He	180.00	14.70
Ba	137	103	He	6.67	173.21
Se	78	125	HEHe	1.83	20.83

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	376909.81	1.45
Te (No He)	125	No Gas	9124.15	5.75

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Bi (No He)	209	No Gas	300150.77	1.83
Sc	45	He	42205.37	2.17
Ge	72	He	29959.02	1.79
Rh	103	He	438194.37	0.72
Te	125	He	2533.58	0.60
Te (HE He)	125	HEHe	4459.72	2.27

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	134CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:17:33
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	322.00	9.86
B	11	45	No Gas	556.68	7.64
Tl	205	209	No Gas	3090.44	9.97
Pb	208	209	No Gas	2660.32	4.80
Th	232	209	No Gas	10.00	0.00
U	238	209	No Gas	4104.06	1.15
Na	23	45	He	113957.75	3.16
Mg	24	45	He	12412.28	1.13
Al	27	45	He	668.36	10.62
K	39	45	He	86442.02	2.04
Ca	43	45	He	74.00	16.44
Ti	47	45	He	44.67	20.19
V	51	72	He	2083.50	4.72
Cr	52	72	He	3917.23	4.23
Mn	55	72	He	1290.08	4.72
Fe	56	72	He	37147.96	0.90
Co	59	72	He	2680.30	11.59
Ni	60	72	He	880.04	6.91
Cu	63	72	He	2140.19	7.81
Zn	66	72	He	770.03	3.44
As	75	125	He	366.17	4.50
Sr	88	103	He	1530.12	11.34
Mo	95	103	He	792.25	6.44
Ag	107	103	He	2284.65	3.94
Cd	111	125	He	353.67	4.67
Sn	118	103	He	893.38	4.52
Sb	121	103	He	1320.09	4.55
Ba	137	103	He	360.01	22.74
Se	78	125	HEHe	23.83	10.61

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	364578.44	1.24	376909.81	96.73	60	120	
Te (No He)	125	No Gas	9094.14	0.87	9124.15	99.67	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	291415.61	1.28	300150.766666667	97.09	60	120	
Sc	45	He	40676.60	1.16	42205.3733333333	96.38	60	120	
Ge	72	He	29572.69	2.03	29959.02	98.71	60	120	
Rh	103	He	436169.09	0.80	438194.366666667	99.54	60	120	
Te	125	He	2628.04	3.98	2533.58	103.73	60	120	
Te (HE He)	125	HEHe	4511.07	2.64	4459.72	101.15	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	135CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:20:05
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	632.68	8.03
B	11	45	No Gas	751.69	7.42
Tl	205	209	No Gas	6535.07	6.96
Pb	208	209	No Gas	4850.97	9.29
Th	232	209	No Gas	8.33	124.90
U	238	209	No Gas	7312.20	5.20
Na	23	45	He	135207.04	1.50
Mg	24	45	He	24487.70	4.91
Al	27	45	He	1090.05	11.12
K	39	45	He	100371.29	0.69
Ca	43	45	He	121.33	8.13
Ti	47	45	He	95.33	12.25
V	51	72	He	3437.10	0.89
Cr	52	72	He	5359.36	0.29
Mn	55	72	He	2173.53	8.18
Fe	56	72	He	49390.98	1.61
Co	59	72	He	5067.65	3.02
Ni	60	72	He	1550.11	3.92
Cu	63	72	He	4047.32	1.65
Zn	66	72	He	843.36	2.80
As	75	125	He	672.52	4.16
Sr	88	103	He	2810.34	6.53
Mo	95	103	He	1610.10	1.26
Ag	107	103	He	4923.12	1.43
Cd	111	125	He	718.02	4.29
Sn	118	103	He	1623.46	7.22
Sb	121	103	He	2510.27	3.80
Ba	137	103	He	866.71	13.32
Se	78	125	HEHe	53.92	0.97

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	366972.09	1.19	376909.81	97.36	60	120	
Te (No He)	125	No Gas	9006.30	3.09	9124.15	98.71	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	292154.64	0.33	300150.766666667	97.34	60	120	
Sc	45	He	41910.02	0.61	42205.3733333333	99.3	60	120	
Ge	72	He	29924.52	1.44	29959.02	99.88	60	120	
Rh	103	He	441535.91	0.70	438194.366666667	100.76	60	120	
Te	125	He	2580.25	6.31	2533.58	101.84	60	120	
Te (HE He)	125	HEHe	4468.06	1.15	4459.72	100.19	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	136CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:22:39
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3160.34	2.25
B	11	45	No Gas	2228.52	6.24
Se	82	125	No Gas	240.16	8.34
Tl	205	209	No Gas	34204.77	2.81
Pb	208	209	No Gas	24706.88	2.85
Th	232	209	No Gas	15.00	88.19
U	238	209	No Gas	39142.90	1.36
Na	23	45	He	313097.77	1.64
Mg	24	45	He	122217.38	1.88
Al	27	45	He	5604.44	4.98
K	39	45	He	213861.81	1.53
Ca	43	45	He	472.68	6.05
Ti	47	45	He	478.01	5.45
V	51	72	He	14951.11	0.62
Cr	52	72	He	19401.33	0.71
Mn	55	72	He	9960.29	3.97
Fe	56	72	He	163231.42	0.79
Co	59	72	He	26270.79	0.32
Ni	60	72	He	7195.23	7.34
Cu	63	72	He	19420.12	3.79
Zn	66	72	He	3868.88	2.45
As	75	125	He	3171.35	1.24
Sr	88	103	He	13353.18	2.54
Mo	95	103	He	8258.01	2.32
Ag	107	103	He	24754.09	1.83
Cd	111	125	He	3544.45	1.15
Sn	118	103	He	7798.97	2.62
Sb	121	103	He	11574.99	3.64
Ba	137	103	He	3883.96	4.62
Se	78	125	HEHe	251.08	3.25

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	365147.83	0.43	376909.81	96.88	60	120	
Te (No He)	125	No Gas	9037.42	1.51	9124.15	99.05	60	120	
Bi (No He)	209	No Gas	289501.34	0.30	300150.766666667	96.45	60	120	
Sc	45	He	41369.55	0.99	42205.3733333333	98.02	60	120	
Ge	72	He	29706.25	0.20	29959.02	99.16	60	120	
Rh	103	He	438017.41	0.48	438194.366666667	99.96	60	120	
Te	125	He	2665.83	1.41	2533.58	105.22	60	120	
Te (HE He)	125	HEHe	4481.73	0.26	4459.72	100.49	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	137CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:25:13
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	15199.04	0.24
B	11	45	No Gas	10101.81	3.35
Se	82	125	No Gas	2249.83	15.24
Tl	205	209	No Gas	166728.32	0.67
Pb	208	209	No Gas	119371.72	0.37
Th	232	209	No Gas	13.33	108.25
U	238	209	No Gas	190185.74	0.72
Na	23	45	He	1211642.82	2.50
Mg	24	45	He	593195.11	0.38
Al	27	45	He	26677.48	2.75
K	39	45	He	773919.00	1.26
Ca	43	45	He	2107.50	1.33
Ti	47	45	He	2300.52	2.29
V	51	72	He	71163.27	0.34
Cr	52	72	He	84782.54	1.27
Mn	55	72	He	47254.03	1.55
Fe	56	72	He	693976.29	0.17
Co	59	72	He	128744.95	0.29
Ni	60	72	He	34962.67	2.20
Cu	63	72	He	91717.22	1.33
Zn	66	72	He	16603.00	2.54
As	75	125	He	15249.07	1.11
Sr	88	103	He	64021.44	0.40
Mo	95	103	He	40340.74	0.50
Ag	107	103	He	120191.64	0.40
Cd	111	125	He	17592.02	0.96
Sn	118	103	He	38002.34	0.30
Sb	121	103	He	57522.71	1.15
Ba	137	103	He	18826.59	2.56
Se	78	125	HEHe	1229.63	1.56

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	370970.48	1.07	376909.81	98.42	60	120	
Te (No He)	125	No Gas	8956.26	0.11	9124.15	98.16	60	120	
Bi (No He)	209	No Gas	287188.15	0.50	300150.766666667	95.68	60	120	
Sc	45	He	41659.22	1.31	42205.3733333333	98.71	60	120	
Ge	72	He	29804.29	0.14	29959.02	99.48	60	120	
Rh	103	He	434625.14	1.48	438194.366666667	99.19	60	120	
Te	125	He	2445.78	2.89	2533.58	96.53	60	120	
Te (HE He)	125	HEHe	4460.05	2.10	4459.72	100.01	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	138CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:27:47
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	31724.15	1.41
B	11	45	No Gas	21146.68	1.91
Se	82	125	No Gas	4582.01	2.37
Tl	205	209	No Gas	347049.72	1.08
Pb	208	209	No Gas	249872.77	0.43
Th	232	209	No Gas	33.33	85.29
U	238	209	No Gas	398508.07	0.78
Na	23	45	He	2304581.22	0.71
Mg	24	45	He	1251949.80	1.12
Al	27	45	He	54219.27	1.44
K	39	45	He	1535388.89	1.58
Ca	43	45	He	4220.62	1.10
Ti	47	45	He	4672.75	1.47
V	51	72	He	144085.72	0.70
Cr	52	72	He	169453.35	1.21
Mn	55	72	He	96828.82	0.46
Fe	56	72	He	1395364.82	1.41
Co	59	72	He	258632.53	1.48
Ni	60	72	He	69590.43	1.02
Cu	63	72	He	184396.91	0.63
Zn	66	72	He	33828.08	0.54
As	75	125	He	30767.33	0.43
Sr	88	103	He	128811.35	0.46
Mo	95	103	He	81853.24	1.38
Ag	107	103	He	246258.01	0.47
Cd	111	125	He	35564.65	0.50
Sn	118	103	He	78575.46	1.95
Sb	121	103	He	117185.06	1.83
Ba	137	103	He	38554.47	1.73
Se	78	125	HEHe	2474.96	0.55

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	381348.11	1.28	376909.81	101.18	60	120	
Te (No He)	125	No Gas	9250.90	1.43	9124.15	101.39	60	120	
Bi (No He)	209	No Gas	293391.64	1.41	300150.766666667	97.75	60	120	
Sc	45	He	42311.10	0.39	42205.3733333333	100.25	60	120	
Ge	72	He	30293.04	0.54	29959.02	101.11	60	120	
Rh	103	He	443932.34	1.30	438194.366666667	101.31	60	120	
Te	125	He	2534.69	2.06	2533.58	100.04	60	120	
Te (HE He)	125	HEHe	4442.38	1.53	4459.72	99.61	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	139CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:30:16
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	64000.53	0.47
B	11	45	No Gas	42448.56	0.50
Se	82	125	No Gas	9273.22	1.51
Tl	205	209	No Gas	697155.53	0.38
Pb	208	209	No Gas	503129.45	1.27
Th	232	209	No Gas	35.00	37.80
U	238	209	No Gas	808039.05	0.25
Na	23	45	He	4558195.45	0.86
Mg	24	45	He	2452892.57	1.08
Al	27	45	He	109079.70	0.62
K	39	45	He	2923936.83	1.54
Ca	43	45	He	8214.99	0.66
Ti	47	45	He	9367.67	1.08
V	51	72	He	290300.49	1.02
Cr	52	72	He	338494.10	1.19
Mn	55	72	He	194789.64	1.03
Fe	56	72	He	2829435.27	0.77
Co	59	72	He	512523.76	0.15
Ni	60	72	He	136715.54	0.22
Cu	63	72	He	366350.23	0.57
Zn	66	72	He	66993.44	1.52
As	75	125	He	61669.00	0.75
Sr	88	103	He	258293.89	0.69
Mo	95	103	He	164716.01	0.52
Ag	107	103	He	477403.05	1.21
Cd	111	125	He	71435.58	0.54
Sn	118	103	He	156584.30	2.33
Sb	121	103	He	230480.50	0.21
Ba	137	103	He	77384.23	2.13
Se	78	125	HEHe	4868.58	2.60

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	388890.56	0.81	376909.81	103.18	60	120	
Te (No He)	125	No Gas	8950.71	3.28	9124.15	98.1	60	120	
Bi (No He)	209	No Gas	298578.13	1.39	300150.766666667	99.48	60	120	
Sc	45	He	42585.33	0.46	42205.3733333333	100.9	60	120	
Ge	72	He	30475.62	1.46	29959.02	101.72	60	120	
Rh	103	He	442233.44	0.76	438194.366666667	100.92	60	120	
Te	125	He	2625.82	0.19	2533.58	103.64	60	120	
Te (HE He)	125	HEHe	4489.40	0.73	4459.72	100.67	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	140_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:32:48
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.104	1.31	34104.06	0.1	104.06	90	110	
B	11	45	No Gas	0.100	2.71	21946.21	0.1	100.21	90	110	
Se	82	125	No Gas	0.102	3.82	4897.62	0.1	101.84	90	110	
Tl	205	209	No Gas	0.102	2.39	366286.54	0.1	102.26	90	110	
Pb	208	209	No Gas	0.103	1.75	265299.90	0.1	102.67	90	110	
Th	232	209	No Gas	23096.664	1.49	476079.78	0.1	23096664.06	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.103	1.73	426126.79	0.1	102.89	90	110	
Na	23	45	He	10.790	6.91	2475463.35	10	107.9	90	110	
Mg	24	45	He	10.970	5.55	1336790.29	10	109.7	90	110	
Al	27	45	He	10.568	6.23	569413.61	1	1056.8	90	110	ICV Main CR1 Failed
K	39	45	He	10.705	5.12	1591819.19	10	107.05	90	110	
Ca	43	45	He	10.227	5.21	4201.95	10	102.27	90	110	
Ti	47	45	He	0.104	5.57	4823.80	0.1	103.96	90	110	
V	51	72	He	0.107	6.86	152035.84	0.1	106.93	90	110	
Cr	52	72	He	0.107	8.05	178045.31	0.1	106.92	90	110	
Mn	55	72	He	0.107	8.39	102094.63	0.1	107.18	90	110	
Fe	56	72	He	10.474	8.13	14420233.12	1	1047.45	90	110	ICV Main CR1 Failed
Co	59	72	He	0.108	7.12	272689.06	0.1	108.27	90	110	
Ni	60	72	He	0.109	6.28	73516.58	0.1	109.04	90	110	
Cu	63	72	He	0.110	6.07	197939.95	0.1	109.96	90	110	
Zn	66	72	He	0.107	5.89	35435.24	0.1	107.48	90	110	
As	75	125	He	0.104	5.51	32015.21	0.1	103.58	90	110	
Sr	88	103	He	0.108	8.63	137159.26	0.1	107.74	90	110	
Mo	95	103	He	0.106	8.33	86253.84	0.1	106.41	90	110	
Ag	107	103	He	0.110	8.14	260770.37	0.1	110.04	90	110	ICV Main CR1 Failed
Cd	111	125	He	0.106	5.10	38006.67	0.1	106.26	90	110	
Sn	118	103	He	0.110	8.18	84572.66	0.1	109.57	90	110	
Sb	121	103	He	0.113	8.43	129399.25	0.1	113.46	90	110	ICV Main CR1 Failed
Ba	137	103	He	0.110	9.76	41877.57	0.1	110.02	90	110	ICV Main CR1 Failed
Se	78	125	HEHe	0.105	1.33	2552.48	0.1	104.77	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	397552.11	2.68	376909.81	105.48	60	120	
Te (No He)	125	No Gas	9439.93	2.91	9124.15	103.46	60	120	
Bi (No He)	209	No Gas	306232.37	3.31	300150.766666667	102.03	60	120	
Sc	45	He	42205.39	6.01	42205.3733333333	100	60	120	
Ge	72	He	29915.15	7.12	29959.02	99.85	60	120	
Rh	103	He	437955.16	7.68	438194.366666667	99.95	60	120	
Te	125	He	2611.38	5.42	2533.58	103.07	60	120	
Te (HE He)	125	HEHe	4464.72	1.02	4459.72	100.11	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	141_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 19:59:42
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.102	1.73	31598.60	0.1	102.25	90	110	
B	11	45	No Gas	0.095	5.20	19574.59	0.1	94.71	90	110	
Se	82	125	No Gas	0.099	3.49	4475.93	0.1	99.37	90	110	
Tl	205	209	No Gas	0.101	0.32	331616.87	0.1	101.42	90	110	
Pb	208	209	No Gas	0.102	1.67	240782.53	0.1	102.14	90	110	
Th	232	209	No Gas	22838.298	1.26	429585.15	0.1	22838297.65	90	110	ICV Main CR1 Failed
U	238	209	No Gas	0.102	1.45	383737.18	0.1	101.53	90	110	
Na	23	45	He	10.536	0.66	2418192.73	10	105.36	90	110	
Mg	24	45	He	10.570	1.28	1286763.18	10	105.7	90	110	
Al	27	45	He	10.335	1.05	556428.17	1	1033.49	90	110	ICV Main CR1 Failed
K	39	45	He	10.626	1.66	1578597.32	10	106.26	90	110	
Ca	43	45	He	10.622	0.34	4357.99	10	106.22	90	110	
Ti	47	45	He	0.103	1.27	4760.78	0.1	102.72	90	110	
V	51	72	He	0.103	2.05	146724.82	0.1	102.57	90	110	
Cr	52	72	He	0.102	2.10	171221.71	0.1	102.1	90	110	
Mn	55	72	He	0.103	3.17	98835.27	0.1	103.09	90	110	
Fe	56	72	He	10.160	1.87	14077584.37	1	1015.95	90	110	ICV Main CR1 Failed
Co	59	72	He	0.104	1.36	263850.03	0.1	104.13	90	110	
Ni	60	72	He	0.105	1.14	71271.95	0.1	105.1	90	110	
Cu	63	72	He	0.105	0.91	190682.97	0.1	105.33	90	110	
Zn	66	72	He	0.104	1.28	34369.30	0.1	103.66	90	110	
As	75	125	He	0.103	3.39	31103.22	0.1	103.06	90	110	
Sr	88	103	He	0.106	0.60	133195.02	0.1	106.15	90	110	
Mo	95	103	He	0.103	0.43	82045.56	0.1	102.71	90	110	
Ag	107	103	He	0.106	0.57	246678.12	0.1	105.64	90	110	
Cd	111	125	He	0.104	3.35	36354.63	0.1	104.11	90	110	
Sn	118	103	He	0.106	2.31	80482.33	0.1	105.81	90	110	
Sb	121	103	He	0.108	2.00	121176.09	0.1	107.8	90	110	
Ba	137	103	He	0.105	1.90	39366.62	0.1	104.87	90	110	
Se	78	125	HEHe	0.101	0.83	2449.88	0.1	101.06	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	374793.84	0.38	376909.81	99.44	60	120	
Te (No He)	125	No Gas	8849.53	2.22	9124.15	96.99	60	120	
Bi (No He)	209	No Gas	279399.72	1.98	300150.766666667	93.09	60	120	
Sc	45	He	42071.53	1.17	42205.3733333333	99.68	60	120	
Ge	72	He	30000.18	1.24	29959.02	100.14	60	120	
Rh	103	He	429781.04	0.14	438194.366666667	98.08	60	120	
Te	125	He	2546.92	3.94	2533.58	100.53	60	120	
Te (HE He)	125	HEHe	4442.38	0.81	4459.72	99.61	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	142_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:07:13
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	296.32	4.67	0.001	
B	11	45	No Gas	0.000	591.24	398.34	0.02	
Se	82	125	No Gas	-0.002	N/A	-165.28	0.001	
Tl	205	209	No Gas	0.000	207.07	43.33	0.001	
Pb	208	209	No Gas	0.000	115.57	70.00	0.001	
Th	232	209	No Gas	2.317	33.15	71.67	0.01	ICB Main CR1 Failed
U	238	209	No Gas	0.000	145.79	23.33	0.01	
Na	23	45	He	-0.075	N/A	75043.81	1	
Mg	24	45	He	-0.001	N/A	240.01	1	
Al	27	45	He	0.000	270.41	95.00	0.1	
K	39	45	He	-0.025	N/A	66927.62	1	
Ca	43	45	He	-0.031	N/A	16.67	1	
Ti	47	45	He	0.000	N/A	5.67	0.01	
V	51	72	He	0.000	N/A	425.01	0.002	
Cr	52	72	He	0.000	892.20	2043.50	0.001	
Mn	55	72	He	0.000	N/A	120.00	0.002	
Fe	56	72	He	0.000	96.02	9319.85	0.1	
Co	59	72	He	0.000	N/A	66.67	0.001	
Ni	60	72	He	0.000	142.46	236.67	0.001	
Cu	63	72	He	0.000	223.30	123.33	0.002	
Zn	66	72	He	0.000	60.02	218.33	0.01	
As	75	125	He	0.000	N/A	50.50	0.001	
Sr	88	103	He	0.000	N/A	120.00	0.01	
Mo	95	103	He	0.000	N/A	4.45	0.002	
Ag	107	103	He	0.000	51.03	56.67	0.001	
Cd	111	125	He	0.000	N/A	0.67	0.001	
Sn	118	103	He	0.000	N/A	10.00	0.001	
Sb	121	103	He	0.000	61.44	213.34	0.001	
Ba	137	103	He	0.000	N/A	0.00	0.002	
Se	78	125	HEHe	0.000	166.43	2.08	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	370262.66	0.24	376909.81	98.24	60	120	
Te (No He)	125	No Gas	8823.96	1.49	9124.15	96.71	60	120	
Bi (No He)	209	No Gas	286489.89	0.91	300150.766666667	95.45	60	120	
Sc	45	He	40656.46	1.75	42205.3733333333	96.33	60	120	
Ge	72	He	28761.09	1.09	29959.02	96	60	120	
Rh	103	He	426103.24	0.91	438194.366666667	97.24	60	120	
Te	125	He	2456.90	1.06	2533.58	96.97	60	120	
Te (HE He)	125	HEHe	4306.01	3.50	4459.72	96.55	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	143LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:11:43
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	369505.78	0.96	376909.81	98.04	60	120	
Te (No He)	125	No Gas	8875.11	1.37	9124.15	97.27	60	120	
Bi (No He)	209	No Gas	282965.95	1.81	300150.766666667	94.27	60	120	
Sc	45	He	41418.63	1.57	42205.3733333333	98.14	60	120	
Ge	72	He	29287.62	1.58	29959.02	97.76	60	120	
Rh	103	He	429308.50	0.60	438194.366666667	97.97	60	120	
Te	125	He	2552.47	4.16	2533.58	100.75	60	120	
Te (HE He)	125	HEHe	4342.35	3.69	4459.72	97.37	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	144ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:16:53
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	104.212	2.09	21514425.52	100	80	120	
Mg	24	45	He	103.817	1.95	11778870.66	100	80	120	
Al	27	45	He	102.391	1.39	5139435.03	100	80	120	
K	39	45	He	103.042	2.03	13679042.71	100	80	120	
Ca	43	45	He	101.294	0.78	38513.25	100	80	120	
Ti	47	45	He	2.087	1.86	90018.11	2	80	120	
Fe	56	72	He	102.153	2.20	131718708.04	100	80	120	
Mo	95	103	He	2.260	1.81	1640537.82	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	375576.40	1.29	376909.81	99.65	60	120	
Te (No He)	125	No Gas	8518.21	1.46	9124.15	93.36	60	120	
Bi (No He)	209	No Gas	279580.53	1.55	300150.766666667	93.15	60	120	
Sc	45	He	39230.45	2.91	42205.3733333333	92.95	60	120	
Ge	72	He	27928.27	1.29	29959.02	93.22	60	120	
Rh	103	He	390594.13	1.80	438194.366666667	89.14	60	120	
Te	125	He	2302.43	1.68	2533.58	90.88	60	120	
Te (HE He)	125	HEHe	3935.56	0.66	4459.72	88.25	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	145ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:19:07
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.020	3.60	5572.39	0.02	80	120	
B	11	45	No Gas	0.020	4.38	4073.92	0.02	80	120	
Se	82	125	No Gas	0.018	7.73	660.54	0.02	80	120	
Tl	205	209	No Gas	0.020	2.01	62957.30	0.02	80	120	
Pb	208	209	No Gas	0.021	2.56	47552.79	0.02	80	120	
U	238	209	No Gas	0.021	0.89	74678.96	0.02	80	120	
Na	23	45	He	102.913	2.05	19827455.12	100	80	120	
Mg	24	45	He	102.426	1.15	10845394.42	100	80	120	
Al	27	45	He	102.165	0.97	4784615.76	100	80	120	
K	39	45	He	101.947	1.31	12630742.31	100	80	120	
Ca	43	45	He	101.006	1.47	35828.42	100	80	120	
Ti	47	45	He	2.087	1.26	84034.75	2	80	120	
V	51	72	He	0.020	2.47	26230.42	0.02	80	120	
Cr	52	72	He	0.021	0.87	33637.35	0.02	80	120	
Mn	55	72	He	0.020	1.00	17784.48	0.02	80	120	
Fe	56	72	He	98.840	0.03	123890511.49	100	80	120	
Co	59	72	He	0.021	1.73	47722.53	0.02	80	120	
Ni	60	72	He	0.021	6.82	12999.42	0.02	80	120	
Cu	63	72	He	0.021	1.84	35153.03	0.02	80	120	
Zn	66	72	He	0.022	4.37	6794.99	0.02	80	120	
As	75	125	He	0.021	0.24	5597.43	0.02	80	120	
Sr	88	103	He	0.022	1.81	24641.69	0.02	80	120	
Mo	95	103	He	2.225	1.20	1582555.04	2	80	120	
Ag	107	103	He	0.021	2.01	43725.76	0.02	80	120	
Cd	111	125	He	0.022	0.43	6634.91	0.02	80	120	
Sn	118	103	He	0.022	1.23	14761.40	0.02	80	120	
Sb	121	103	He	0.023	1.24	22852.41	0.02	80	120	
Ba	137	103	He	0.022	1.98	7388.80	0.02	80	120	
Se	78	125	HEHe	0.021	3.98	439.43	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	338262.67	1.33	376909.81	89.75	60	120	
Te (No He)	125	No Gas	8094.62	2.31	9124.15	88.72	60	120	
Bi (No He)	209	No Gas	266729.87	1.66	300150.766666667	88.87	60	120	
Sc	45	He	36601.30	1.48	42205.3733333333	86.72	60	120	
Ge	72	He	27150.14	0.47	29959.02	90.62	60	120	
Rh	103	He	382708.44	1.03	438194.366666667	87.34	60	120	
Te	125	He	2193.52	1.24	2533.58	86.58	60	120	
Te (HE He)	125	HEHe	3881.55	1.61	4459.72	87.04	60	120	

Sample Report

Sample Name	BLANK WG791805
File Name	146SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:27:05
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	2.00	5	
B	11	45	No Gas	0.000	44.70	370.01	5	
Se	82	125	No Gas	-0.002	N/A	-158.29	5	
Tl	205	209	No Gas	0.000	26.04	126.67	5	
Pb	208	209	No Gas	0.000	18.26	180.01	5	
Th	232	209	No Gas	0.775	21.54	38.33	5	
U	238	209	No Gas	0.000	N/A	13.33	5	
Na	23	45	He	-0.044	N/A	69879.25	90	
Mg	24	45	He	0.010	10.15	1280.11	90	
Al	27	45	He	0.012	15.13	535.01	90	
K	39	45	He	-0.024	N/A	56978.42	90	
Ca	43	45	He	0.015	81.65	28.67	90	
Ti	47	45	He	0.000	22.04	14.67	5	
V	51	72	He	0.000	N/A	370.01	5	
Cr	52	72	He	0.000	23.26	2241.85	5	
Mn	55	72	He	0.000	81.76	140.00	5	
Fe	56	72	He	0.012	4.96	21416.18	90	
Co	59	72	He	0.000	190.07	90.00	5	
Ni	60	72	He	0.000	23.30	370.01	5	
Cu	63	72	He	0.001	7.01	1180.07	5	
Zn	66	72	He	0.000	18.68	248.33	5	
As	75	125	He	0.000	12.84	68.67	5	
Sr	88	103	He	0.000	N/A	106.67	5	
Mo	95	103	He	0.000	3.27	130.00	5	
Ag	107	103	He	0.000	22.63	92.22	1	
Cd	111	125	He	0.000	111.35	2.00	5	
Sn	118	103	He	0.000	18.58	163.34	2	
Sb	121	103	He	0.001	11.18	1140.07	1	
Ba	137	103	He	0.000	48.27	60.00	2	
Se	78	125	HEHe	0.000	60.18	2.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	310239.22	1.44	376909.81	82.31	60	120	
Te (No He)	125	No Gas	7838.92	1.55	9124.15	85.91	60	120	
Bi (No He)	209	No Gas	272001.38	0.75	300150.766666667	90.62	60	120	
Sc	45	He	34352.50	1.68	42205.3733333333	81.39	60	120	
Ge	72	He	26751.59	1.46	29959.02	89.29	60	120	
Rh	103	He	387550.61	0.50	438194.366666667	88.44	60	120	
Te	125	He	2100.17	1.37	2533.58	82.89	60	120	
Te (HE He)	125	HEHe	3715.84	0.74	4459.72	83.32	60	120	

Sample Report

Sample Name	LCS WG791805
File Name	147SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:29:21
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.050	3.16	11198.22	5	
B	11	45	No Gas	0.048	3.11	7276.82	5	
Se	82	125	No Gas	0.049	8.38	1740.03	5	
Tl	205	209	No Gas	0.052	0.62	141369.67	5	
Pb	208	209	No Gas	0.052	0.72	103031.64	5	
Th	232	209	No Gas	11760.055	0.77	185666.24	5	>LDR
U	238	209	No Gas	0.051	1.29	163302.76	5	
Na	23	45	He	5.212	1.12	915156.94	90	
Mg	24	45	He	5.103	2.39	453415.43	90	
Al	27	45	He	5.011	2.35	196846.82	90	
K	39	45	He	5.151	1.71	591573.54	90	
Ca	43	45	He	5.203	2.68	1571.42	90	
Ti	47	45	He	0.052	3.82	1752.44	5	
V	51	72	He	0.049	4.38	56246.84	5	
Cr	52	72	He	0.049	3.25	66611.99	5	
Mn	55	72	He	0.049	2.89	37151.34	5	
Fe	56	72	He	4.891	2.61	5365023.25	90	
Co	59	72	He	0.051	1.78	102454.23	5	
Ni	60	72	He	0.052	2.46	28067.72	5	
Cu	63	72	He	0.053	2.48	75956.16	5	
Zn	66	72	He	0.051	1.98	13558.10	5	
As	75	125	He	0.052	8.45	11957.31	5	
Sr	88	103	He	0.050	2.74	50038.64	5	
Mo	95	103	He	0.053	1.43	33490.68	5	
Ag	107	103	He	0.053	1.03	98816.77	1	
Cd	111	125	He	0.054	5.56	14397.72	5	
Sn	118	103	He	0.050	1.90	30323.37	2	
Sb	121	103	He	0.056	3.11	50003.54	1	
Ba	137	103	He	0.052	4.04	15435.58	2	
Se	78	125	HEHe	0.059	22.72	987.45	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	301230.74	1.68	376909.81	79.92	60	120	
Te (No He)	125	No Gas	7910.08	0.53	9124.15	86.69	60	120	
Bi (No He)	209	No Gas	260525.17	0.80	300150.766666667	86.8	60	120	
Sc	45	He	34107.57	1.86	42205.3733333333	80.81	60	120	
Ge	72	He	26372.05	2.41	29959.02	88.03	60	120	
Rh	103	He	380523.21	1.45	438194.366666667	86.84	60	120	
Te	125	He	2152.40	7.21	2533.58	84.95	60	120	
Te (HE He)	125	HEHe	3523.48	19.98	4459.72	79.01	60	120	

Sample Report

Sample Name	LCSD WG791805
File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:31:37
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.052	1.28	11894.73	5	
B	11	45	No Gas	0.050	5.89	7827.11	5	
Se	82	125	No Gas	0.051	2.64	1802.16	5	
Tl	205	209	No Gas	0.053	0.87	147991.44	5	
Pb	208	209	No Gas	0.053	0.91	107459.66	5	
Th	232	209	No Gas	12076.857	2.08	193747.99	5	>LDR
U	238	209	No Gas	0.053	1.58	170620.36	5	
Na	23	45	He	5.253	0.52	933839.23	90	
Mg	24	45	He	5.269	1.25	474345.67	90	
Al	27	45	He	5.060	0.25	201412.72	90	
K	39	45	He	5.183	2.35	602759.40	90	
Ca	43	45	He	5.336	3.78	1631.43	90	
Ti	47	45	He	0.053	2.05	1817.12	5	
V	51	72	He	0.049	0.51	57491.54	5	
Cr	52	72	He	0.050	1.47	68758.60	5	
Mn	55	72	He	0.049	0.76	37856.38	5	
Fe	56	72	He	4.872	0.49	5461621.38	90	
Co	59	72	He	0.051	1.23	104872.00	5	
Ni	60	72	He	0.053	1.05	28902.54	5	
Cu	63	72	He	0.053	2.13	77621.56	5	
Zn	66	72	He	0.052	4.92	13943.50	5	
As	75	125	He	0.053	3.02	12395.51	5	
Sr	88	103	He	0.052	2.13	52450.58	5	
Mo	95	103	He	0.053	1.20	34192.40	5	
Ag	107	103	He	0.054	2.07	101905.44	1	
Cd	111	125	He	0.055	2.29	14912.60	5	
Sn	118	103	He	0.052	1.33	31970.33	2	
Sb	121	103	He	0.056	0.66	51278.40	1	
Ba	137	103	He	0.055	3.14	16573.56	2	
Se	78	125	HEHe	0.053	1.02	1006.79	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	305893.77	0.39	376909.81	81.16	60	120	
Te (No He)	125	No Gas	7936.76	1.72	9124.15	86.99	60	120	
Bi (No He)	209	No Gas	264790.13	1.63	300150.766666667	88.22	60	120	
Sc	45	He	34554.10	1.02	42205.3733333333	81.87	60	120	
Ge	72	He	26940.88	1.56	29959.02	89.93	60	120	
Rh	103	He	385940.22	0.94	438194.366666667	88.08	60	120	
Te	125	He	2185.74	2.31	2533.58	86.27	60	120	
Te (HE He)	125	HEHe	3887.88	0.26	4459.72	87.18	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:33:52
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	34.00	14.00	5	
B	11	45	No Gas	0.326	3.49	39664.25	5	
Se	82	125	No Gas	0.003	114.39	22.79	5	
Tl	205	209	No Gas	0.000	17.83	426.68	5	
Pb	208	209	No Gas	0.001	6.07	1133.41	5	
Th	232	209	No Gas	24.187	10.65	290.01	5	>LDR
U	238	209	No Gas	0.025	2.07	57360.97	5	
Na	23	45	He	4867.476	3.57	721195429.25	90	>LDR
Mg	24	45	He	980.926	1.66	80212540.47	90	>LDR
Al	27	45	He	0.024	9.79	921.71	90	
K	39	45	He	11.454	1.81	1145048.86	90	
Ca	43	45	He	1090.085	1.57	298468.68	90	>LDR
Ti	47	45	He	0.000	12.60	17.67	5	
V	51	72	He	0.007	3.26	9521.54	5	
Cr	52	72	He	0.000	23.47	2796.96	5	
Mn	55	72	He	0.478	0.83	416033.81	5	
Fe	56	72	He	0.081	0.81	111645.22	90	
Co	59	72	He	0.003	4.52	7141.92	5	
Ni	60	72	He	0.006	5.06	3917.26	5	
Cu	63	72	He	0.001	5.32	1930.17	5	
Zn	66	72	He	0.006	6.19	1841.80	5	
As	75	125	He	0.004	10.89	658.85	5	
Sr	88	103	He	22.551	1.90	17185068.50	5	>LDR
Mo	95	103	He	0.017	2.06	8399.20	5	
Ag	107	103	He	0.000	20.64	282.23	1	
Cd	111	125	He	0.000	10.59	37.33	5	
Sn	118	103	He	0.001	9.23	336.68	2	
Sb	121	103	He	0.004	5.53	2990.38	1	
Ba	137	103	He	0.037	3.31	8556.13	2	
Se	78	125	HEHe	0.011	1.85	167.25	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	248213.66	0.15	376909.81	65.85	60	120	
Te (No He)	125	No Gas	5742.33	2.00	9124.15	62.94	60	120	
Bi (No He)	209	No Gas	185921.64	2.37	300150.766666667	61.94	60	120	
Sc	45	He	31414.87	2.32	42205.3733333333	74.43	60	120	
Ge	72	He	30289.73	0.66	29959.02	101.1	60	120	
Rh	103	He	290490.26	1.29	438194.366666667	66.29	60	120	
Te	125	He	1679.00	8.75	2533.58	66.27	60	120	
Te (HE He)	125	HEHe	3045.67	1.79	4459.72	68.29	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:36:09
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	28.74	10.67	5	
B	11	45	No Gas	0.393	4.16	10196.88	5	
Se	82	125	No Gas	-0.048	N/A	-351.19	5	
Tl	205	209	No Gas	0.000	64.29	113.34	5	
Pb	208	209	No Gas	0.001	5.02	290.01	5	
Th	232	209	No Gas	30.061	55.43	90.00	5	>LDR
U	238	209	No Gas	0.027	1.78	13023.42	5	
Na	23	45	He	5553.524	1.95	166934660.85	90	>LDR
Mg	24	45	He	1097.136	0.47	18191376.40	90	>LDR
Al	27	45	He	0.045	6.57	395.01	90	
K	39	45	He	12.617	0.82	298723.89	90	
Ca	43	45	He	1207.479	1.10	67048.53	90	>LDR
Ti	47	45	He	0.001	44.56	10.00	5	
V	51	72	He	0.010	8.44	2395.22	5	
Cr	52	72	He	0.004	15.63	2521.91	5	
Mn	55	72	He	0.732	0.73	95560.51	5	
Fe	56	72	He	0.197	0.34	44394.79	90	
Co	59	72	He	0.005	25.12	1776.82	5	
Ni	60	72	He	0.013	6.57	1360.09	5	
Cu	63	72	He	0.004	15.51	1010.06	5	
Zn	66	72	He	0.015	12.88	795.03	5	
As	75	125	He	0.004	7.16	184.67	5	
Sr	88	103	He	24.504	0.81	3979498.80	5	
Mo	95	103	He	0.019	1.42	2024.60	5	
Ag	107	103	He	0.000	32.42	77.78	1	
Cd	111	125	He	0.000	28.26	15.00	5	
Sn	118	103	He	0.001	19.57	86.67	2	
Sb	121	103	He	0.005	13.34	896.72	1	
Ba	137	103	He	0.041	8.90	1980.18	2	
Se	78	125	HEHe	0.013	4.58	41.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	259619.82	1.34	376909.81	68.88	60	120	
Te (No He)	125	No Gas	6288.13	3.12	9124.15	68.92	60	120	
Bi (No He)	209	No Gas	196976.59	1.39	300150.766666667	65.63	60	120	
Sc	45	He	31841.35	0.97	42205.3733333333	75.44	60	120	
Ge	72	He	22706.87	2.79	29959.02	75.79	60	120	
Rh	103	He	309502.06	1.80	438194.366666667	70.63	60	120	
Te	125	He	1787.90	0.71	2533.58	70.57	60	120	
Te (HE He)	125	HEHe	3132.36	1.97	4459.72	70.24	60	120	

Sample Report

Sample Name	PS L766887-01 WG791805
File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:38:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.065	0.27	11037.41	5	
B	11	45	No Gas	0.405	2.07	45283.33	5	
Se	82	125	No Gas	0.058	8.29	1365.40	5	
Tl	205	209	No Gas	0.061	1.50	109442.53	5	
Pb	208	209	No Gas	0.061	2.51	78238.98	5	
Th	232	209	No Gas	9.149	11.30	110.00	5	>LDR
U	238	209	No Gas	0.025	1.39	50723.11	5	
Na	23	45	He	4910.489	0.87	666872270.06	90	>LDR
Mg	24	45	He	976.909	1.55	73200377.24	90	>LDR
Al	27	45	He	0.130	2.58	4370.68	90	
K	39	45	He	11.876	2.84	1086004.77	90	
Ca	43	45	He	1069.238	1.32	268258.51	90	>LDR
Ti	47	45	He	0.059	1.96	1687.77	5	
V	51	72	He	0.053	1.14	63047.72	5	
Cr	52	72	He	0.043	1.16	60038.45	5	
Mn	55	72	He	0.503	0.20	396817.08	5	
Fe	56	72	He	0.108	0.39	131438.09	90	
Co	59	72	He	0.047	1.02	98550.21	5	
Ni	60	72	He	0.050	2.33	28070.81	5	
Cu	63	72	He	0.045	2.29	66472.70	5	
Zn	66	72	He	0.048	0.74	13304.57	5	
As	75	125	He	0.067	1.19	11149.65	5	
Sr	88	103	He	22.286	0.65	15835184.76	5	>LDR
Mo	95	103	He	0.081	0.90	36738.67	5	
Ag	107	103	He	0.031	0.67	41705.13	1	
Cd	111	125	He	0.060	1.35	11580.78	5	
Sn	118	103	He	0.060	2.48	25947.78	2	
Sb	121	103	He	0.066	0.70	42053.85	1	
Ba	137	103	He	0.097	1.26	20589.02	2	
Se	78	125	HEHe	0.072	2.75	1036.62	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	228481.77	0.89	376909.81	60.62	60	120	
Te (No He)	125	No Gas	5204.34	2.01	9124.15	57.04	60	120	ISTD Failed
Bi (No He)	209	No Gas	169734.91	0.97	300150.766666667	56.55	60	120	ISTD Failed
Sc	45	He	28778.35	0.71	42205.3733333333	68.19	60	120	
Ge	72	He	27460.68	0.50	29959.02	91.66	60	120	
Rh	103	He	270812.42	0.22	438194.366666667	61.8	60	120	
Te	125	He	1567.88	1.51	2533.58	61.88	60	120	
Te (HE He)	125	HEHe	2918.98	1.25	4459.72	65.45	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:40:45
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.057	0.59	9299.56	5	
B	11	45	No Gas	0.406	0.92	43540.01	5	
Se	82	125	No Gas	0.036	11.96	791.70	5	
Tl	205	209	No Gas	0.054	0.62	89275.05	5	
Pb	208	209	No Gas	0.053	0.67	63506.50	5	
Th	232	209	No Gas	12934.009	0.81	123538.11	5	>LDR
U	238	209	No Gas	0.082	0.93	157107.44	5	
Na	23	45	He	4744.982	1.58	652701096.94	90	>LDR
Mg	24	45	He	960.271	0.69	72888657.25	90	>LDR
Al	27	45	He	5.152	1.85	173007.93	90	
K	39	45	He	16.538	0.20	1512199.87	90	
Ca	43	45	He	1088.087	0.71	276533.91	90	>LDR
Ti	47	45	He	0.053	1.01	1534.75	5	
V	51	72	He	0.046	1.53	56407.42	5	
Cr	52	72	He	0.037	1.11	54301.22	5	
Mn	55	72	He	0.510	1.62	418720.07	5	
Fe	56	72	He	3.543	1.76	4214643.27	90	
Co	59	72	He	0.039	3.44	85253.69	5	
Ni	60	72	He	0.041	3.77	24053.69	5	
Cu	63	72	He	0.036	1.93	56279.71	5	
Zn	66	72	He	0.038	2.81	10937.58	5	
As	75	125	He	0.063	5.01	10202.45	5	
Sr	88	103	He	23.256	1.43	16269743.51	5	>LDR
Mo	95	103	He	0.074	0.79	32890.42	5	
Ag	107	103	He	0.052	0.89	67296.09	1	
Cd	111	125	He	0.052	3.71	9767.40	5	
Sn	118	103	He	0.053	1.98	22648.80	2	
Sb	121	103	He	0.061	0.34	38222.78	1	
Ba	137	103	He	0.089	1.88	18756.44	2	
Se	78	125	HEHe	0.066	1.59	959.28	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	219488.24	1.15	376909.81	58.23	60	120	ISTD Failed
Te (No He)	125	No Gas	5083.18	5.48	9124.15	55.71	60	120	ISTD Failed
Bi (No He)	209	No Gas	157620.77	0.74	300150.766666667	52.51	60	120	ISTD Failed
Sc	45	He	29155.77	2.04	42205.3733333333	69.08	60	120	
Ge	72	He	28578.45	3.10	29959.02	95.39	60	120	
Rh	103	He	266686.25	2.31	438194.366666667	60.86	60	120	
Te	125	He	1520.09	4.94	2533.58	60	60	120	ISTD Failed
Te (HE He)	125	HEHe	2942.65	2.21	4459.72	65.98	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:43:03
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.055	0.57	9363.61	5	
B	11	45	No Gas	0.410	2.03	45830.13	5	
Se	82	125	No Gas	0.034	5.93	779.22	5	
Tl	205	209	No Gas	0.053	1.73	90701.15	5	
Pb	208	209	No Gas	0.053	0.92	64863.37	5	
Th	232	209	No Gas	12725.509	1.66	125243.09	5	>LDR
U	238	209	No Gas	0.081	1.89	161002.43	5	
Na	23	45	He	4833.833	1.25	672485843.31	90	>LDR
Mg	24	45	He	988.572	1.76	75872190.54	90	>LDR
Al	27	45	He	5.167	0.29	175520.99	90	
K	39	45	He	17.141	1.15	1583345.81	90	
Ca	43	45	He	1104.404	0.51	283906.72	90	>LDR
Ti	47	45	He	0.050	0.64	1477.08	5	
V	51	72	He	0.046	3.57	56519.76	5	
Cr	52	72	He	0.037	2.57	54418.26	5	
Mn	55	72	He	0.519	2.24	425251.08	5	
Fe	56	72	He	3.560	3.43	4228874.31	90	
Co	59	72	He	0.040	2.14	85975.42	5	
Ni	60	72	He	0.041	3.67	23673.13	5	
Cu	63	72	He	0.037	1.52	56705.02	5	
Zn	66	72	He	0.038	3.32	10777.47	5	
As	75	125	He	0.059	2.96	10179.10	5	
Sr	88	103	He	23.151	1.67	16599601.00	5	>LDR
Mo	95	103	He	0.074	1.23	33683.46	5	
Ag	107	103	He	0.051	2.09	67991.63	1	
Cd	111	125	He	0.049	2.93	9849.46	5	
Sn	118	103	He	0.053	3.17	23132.84	2	
Sb	121	103	He	0.058	2.27	37203.59	1	
Ba	137	103	He	0.090	0.96	19367.23	2	
Se	78	125	HEHe	0.068	2.70	972.45	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	228631.64	2.30	376909.81	60.66	60	120	
Te (No He)	125	No Gas	5279.93	3.36	9124.15	57.87	60	120	ISTD Failed
Bi (No He)	209	No Gas	162421.42	1.23	300150.766666667	54.11	60	120	ISTD Failed
Sc	45	He	29487.52	2.88	42205.3733333333	69.87	60	120	
Ge	72	He	28535.20	1.41	29959.02	95.25	60	120	
Rh	103	He	273274.60	0.21	438194.366666667	62.36	60	120	
Te	125	He	1618.99	4.15	2533.58	63.9	60	120	
Te (HE He)	125	HEHe	2923.98	0.78	4459.72	65.56	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	154_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 20:45:20
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.124	1.59	27066.38	0.1	123.83	90	110	CCV Main CR1 Failed
B	11	45	No Gas	0.119	5.38	17251.75	0.1	118.53	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.077	3.53	2719.91	0.1	77.01	90	110	CCV Main CR1 Failed
Tl	205	209	No Gas	0.102	1.43	261812.65	0.1	102.02	90	110	
Pb	208	209	No Gas	0.101	1.57	187394.57	0.1	101.28	90	110	
Th	232	209	No Gas	6.959	7.65	123.33	0.1	6958.8	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.102	0.76	301194.93	0.1	101.52	90	110	
Na	23	45	He	13.382	3.25	2420362.05	10	133.82	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.520	0.47	1017953.81	10	105.2	90	110	
Al	27	45	He	1.026	1.94	43948.70	1	102.57	90	110	
K	39	45	He	10.112	1.06	1196753.57	10	101.12	90	110	
Ca	43	45	He	10.363	0.42	3379.73	10	103.63	90	110	
Ti	47	45	He	0.103	1.79	3785.16	0.1	102.78	90	110	
V	51	72	He	0.106	1.71	120584.72	0.1	105.99	90	110	
Cr	52	72	He	0.105	2.58	140205.58	0.1	105.16	90	110	
Mn	55	72	He	0.102	2.94	77765.28	0.1	101.98	90	110	
Fe	56	72	He	1.019	2.48	1130287.27	1	101.94	90	110	
Co	59	72	He	0.107	1.54	215118.21	0.1	106.74	90	110	
Ni	60	72	He	0.109	2.61	58933.54	0.1	109.29	90	110	
Cu	63	72	He	0.107	2.09	154759.91	0.1	107.49	90	110	
Zn	66	72	He	0.104	2.67	27397.87	0.1	103.9	90	110	
As	75	125	He	0.104	3.35	25126.57	0.1	104.21	90	110	
Sr	88	103	He	0.102	0.88	105178.58	0.1	101.91	90	110	
Mo	95	103	He	0.102	0.76	67145.23	0.1	102.2	90	110	
Ag	107	103	He	0.104	0.37	199812.62	0.1	104.04	90	110	
Cd	111	125	He	0.102	3.34	28562.35	0.1	102.38	90	110	
Sn	118	103	He	0.099	1.48	61857.74	0.1	98.88	90	110	
Sb	121	103	He	0.099	1.03	91718.69	0.1	99.19	90	110	
Ba	137	103	He	0.096	1.40	29652.27	0.1	96.05	90	110	
Se	78	125	HEHe	0.104	4.61	2066.74	0.1	103.52	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	265130.98	1.42	376909.81	70.34	60	120	
Te (No He)	125	No Gas	6981.79	2.90	9124.15	76.52	60	120	
Bi (No He)	209	No Gas	219304.61	1.41	300150.766666667	73.06	60	120	
Sc	45	He	33436.05	0.84	42205.3733333333	79.22	60	120	
Ge	72	He	23863.22	1.68	29959.02	79.65	60	120	
Rh	103	He	353476.05	0.89	438194.366666667	80.67	60	120	
Te	125	He	2034.60	3.38	2533.58	80.31	60	120	
Te (HE He)	125	HEHe	3665.17	6.31	4459.72	82.18	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	155_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 21:01:28
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	362.77	4.00	0.001	
B	11	45	No Gas	0.000	78.66	396.68	0.02	
Se	82	125	No Gas	-0.004	N/A	-278.07	0.001	
Tl	205	209	No Gas	0.000	2500.72	30.00	0.001	
Pb	208	209	No Gas	0.000	1.27	1040.06	0.001	
Th	232	209	No Gas	-0.621	N/A	15.00	0.01	
U	238	209	No Gas	0.000	210.33	26.67	0.01	
Na	23	45	He	0.320	3.44	155382.34	1	
Mg	24	45	He	0.009	10.63	1406.80	1	
Al	27	45	He	0.000	55.75	96.67	0.1	
K	39	45	He	-0.018	N/A	66190.81	1	
Ca	43	45	He	0.010	156.43	32.00	1	
Ti	47	45	He	0.000	N/A	3.33	0.01	
V	51	72	He	0.000	N/A	495.01	0.002	
Cr	52	72	He	0.000	N/A	1976.82	0.001	
Mn	55	72	He	0.000	N/A	110.00	0.002	
Fe	56	72	He	0.001	11.62	10050.29	0.1	
Co	59	72	He	0.000	N/A	53.33	0.001	
Ni	60	72	He	0.000	85.83	253.34	0.001	
Cu	63	72	He	0.000	116.81	126.67	0.002	
Zn	66	72	He	0.000	N/A	103.33	0.01	
As	75	125	He	0.000	N/A	47.50	0.001	
Sr	88	103	He	0.000	16.09	336.68	0.01	
Mo	95	103	He	0.000	N/A	8.89	0.002	
Ag	107	103	He	0.000	24.21	37.78	0.001	
Cd	111	125	He	0.000	45.69	2.33	0.001	
Sn	118	103	He	0.000	107.11	66.67	0.001	
Sb	121	103	He	0.000	85.47	250.01	0.001	
Ba	137	103	He	0.000	220.55	13.33	0.002	
Se	78	125	HEHe	0.000	34.88	2.83	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	345262.90	0.50	376909.81	91.6	60	120	
Te (No He)	125	No Gas	8611.60	1.35	9124.15	94.38	60	120	
Bi (No He)	209	No Gas	287866.60	0.80	300150.766666667	95.91	60	120	
Sc	45	He	39621.38	0.48	42205.3733333333	93.88	60	120	
Ge	72	He	28959.23	0.12	29959.02	96.66	60	120	
Rh	103	He	425232.46	1.02	438194.366666667	97.04	60	120	
Te	125	He	2451.34	4.29	2533.58	96.75	60	120	
Te (HE He)	125	HEHe	4297.34	1.11	4459.72	96.36	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	156_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 22:08:19
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.000	N/A	3.33	0.1	-0.01	90	110	CCV Main CR1 Failed
B	11	45	No Gas	-0.002	N/A	241.67	0.1	-1.57	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.001	187.90	-129.22	0.1	0.9	90	110	CCV Main CR1 Failed
Tl	205	209	No Gas	0.000	N/A	20.00	0.1	-0.01	90	110	CCV Main CR1 Failed
Pb	208	209	No Gas	0.000	N/A	66.67	0.1	0	90	110	CCV Main CR1 Failed
Th	232	209	No Gas	0.010	5095.44	78.33	0.1	10.16	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.000	N/A	3.33	0.1	0	90	110	CCV Main CR1 Failed
Na	23	45	He	-0.245	N/A	97528.32	10	-2.45	90	110	CCV Main CR1 Failed
Mg	24	45	He	0.000	794.37	1053.42	10	0	90	110	CCV Main CR1 Failed
Al	27	45	He	-0.001	N/A	91.67	1	-0.09	90	110	CCV Main CR1 Failed
K	39	45	He	-0.330	N/A	63111.04	10	-3.3	90	110	CCV Main CR1 Failed
Ca	43	45	He	-0.041	N/A	32.67	10	-0.41	90	110	CCV Main CR1 Failed
Ti	47	45	He	0.000	N/A	7.00	0.1	-0.09	90	110	CCV Main CR1 Failed
V	51	72	He	0.000	N/A	376.68	0.1	-0.32	90	110	CCV Main CR1 Failed
Cr	52	72	He	-0.001	N/A	1913.48	0.1	-0.79	90	110	CCV Main CR1 Failed
Mn	55	72	He	0.000	N/A	200.00	0.1	-0.05	90	110	CCV Main CR1 Failed
Fe	56	72	He	-0.005	N/A	6738.32	1	-0.48	90	110	CCV Main CR1 Failed
Co	59	72	He	0.000	N/A	60.00	0.1	-0.03	90	110	CCV Main CR1 Failed
Ni	60	72	He	0.000	N/A	140.00	0.1	-0.22	90	110	CCV Main CR1 Failed
Cu	63	72	He	0.000	N/A	76.67	0.1	-0.04	90	110	CCV Main CR1 Failed
Zn	66	72	He	0.000	N/A	106.67	0.1	-0.43	90	110	CCV Main CR1 Failed
As	75	125	He	0.000	N/A	42.17	0.1	-0.12	90	110	CCV Main CR1 Failed
Sr	88	103	He	0.000	N/A	343.35	0.1	-0.05	90	110	CCV Main CR1 Failed
Mo	95	103	He	0.000	N/A	8.89	0.1	-0.01	90	110	CCV Main CR1 Failed
Ag	107	103	He	0.000	N/A	36.67	0.1	0	90	110	CCV Main CR1 Failed
Cd	111	125	He	0.000	N/A	2.00	0.1	0	90	110	CCV Main CR1 Failed
Sn	118	103	He	0.000	N/A	26.67	0.1	-0.02	90	110	CCV Main CR1 Failed
Sb	121	103	He	0.000	N/A	260.01	0.1	-0.07	90	110	CCV Main CR1 Failed
Ba	137	103	He	0.000	N/A	3.33	0.1	-0.01	90	110	CCV Main CR1 Failed
Se	78	125	HEHe	0.000	55.11	4.83	0.1	0.02	90	110	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1145214.00	22.71	376909.81	303.84	60	120	ISTD Failed
Te (No He)	125	No Gas	23132.47	25.90	9124.15	253.53	60	120	ISTD Failed
Bi (No He)	209	No Gas	863405.02	22.62	300150.766666667	287.66	60	120	ISTD Failed
Sc	45	He	105483.95	21.54	42205.3733333333	249.93	60	120	ISTD Failed
Ge	72	He	73962.21	20.05	29959.02	246.88	60	120	ISTD Failed
Rh	103	He	1086642.69	19.66	438194.366666667	247.98	60	120	ISTD Failed
Te	125	He	5816.88	17.74	2533.58	229.59	60	120	ISTD Failed
Te (HE He)	125	HEHe	9461.47	28.40	4459.72	212.15	60	120	ISTD Failed

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	157_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 22:17:18
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.103	0.77	28682.71	0.1	102.59	90	110	
B	11	45	No Gas	0.097	3.61	18164.49	0.1	97.2	90	110	
Se	82	125	No Gas	0.095	4.36	4053.02	0.1	95.19	90	110	
Tl	205	209	No Gas	0.099	1.79	313560.87	0.1	98.56	90	110	
Pb	208	209	No Gas	0.099	2.17	227934.14	0.1	99.36	90	110	
Th	232	209	No Gas	1.248	47.11	48.33	0.1	1247.98	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	1.30	359573.16	0.1	97.76	90	110	
Na	23	45	He	10.071	2.35	2229880.69	10	100.71	90	110	
Mg	24	45	He	9.883	1.50	1158653.42	10	98.83	90	110	
Al	27	45	He	0.987	2.20	51245.29	1	98.7	90	110	
K	39	45	He	10.284	2.97	1473292.95	10	102.84	90	110	
Ca	43	45	He	9.958	2.33	3935.21	10	99.58	90	110	
Ti	47	45	He	0.099	0.95	4418.34	0.1	99.01	90	110	
V	51	72	He	0.099	1.14	138103.24	0.1	99.36	90	110	
Cr	52	72	He	0.099	1.65	161872.08	0.1	99.33	90	110	
Mn	55	72	He	0.098	1.65	91752.77	0.1	98.5	90	110	
Fe	56	72	He	0.979	0.59	1325809.10	1	97.87	90	110	
Co	59	72	He	0.099	1.31	244887.24	0.1	99.49	90	110	
Ni	60	72	He	0.102	0.81	67082.16	0.1	101.82	90	110	
Cu	63	72	He	0.098	1.11	173119.81	0.1	98.45	90	110	
Zn	66	72	He	0.100	1.50	32214.34	0.1	100	90	110	
As	75	125	He	0.097	3.35	29463.45	0.1	96.97	90	110	
Sr	88	103	He	0.101	1.56	123615.72	0.1	101.46	90	110	
Mo	95	103	He	0.100	2.33	77895.66	0.1	100.44	90	110	
Ag	107	103	He	0.101	1.35	229638.01	0.1	101.29	90	110	
Cd	111	125	He	0.095	2.79	33326.12	0.1	94.8	90	110	
Sn	118	103	He	0.098	1.90	72207.86	0.1	97.78	90	110	
Sb	121	103	He	0.099	1.80	108330.21	0.1	99.25	90	110	
Ba	137	103	He	0.100	2.71	36291.60	0.1	99.58	90	110	
Se	78	125	HEHe	0.104	5.45	2463.96	0.1	104.07	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	339082.38	0.55	376909.81	89.96	60	120	
Te (No He)	125	No Gas	8368.11	0.68	9124.15	91.71	60	120	
Bi (No He)	209	No Gas	271899.74	1.39	300150.766666667	90.59	60	120	
Sc	45	He	40510.48	0.93	42205.3733333333	95.98	60	120	
Ge	72	He	29140.66	0.59	29959.02	97.27	60	120	
Rh	103	He	417269.63	0.26	438194.366666667	95.22	60	120	
Te	125	He	2563.59	3.56	2533.58	101.18	60	120	
Te (HE He)	125	HEHe	4345.69	4.58	4459.72	97.44	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	158_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 22:26:11
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	378.83	4.00	0.001	
B	11	45	No Gas	0.000	N/A	283.34	0.02	
Se	82	125	No Gas	-0.002	N/A	-206.43	0.001	
Tl	205	209	No Gas	0.000	82.09	53.33	0.001	
Pb	208	209	No Gas	0.000	10.29	1000.06	0.001	
Th	232	209	No Gas	-0.438	N/A	18.33	0.01	
U	238	209	No Gas	0.000	182.45	36.67	0.01	
Na	23	45	He	0.044	35.51	98740.32	1	
Mg	24	45	He	-0.002	N/A	220.01	1	
Al	27	45	He	0.001	14.00	131.67	0.1	
K	39	45	He	0.007	177.22	70062.25	1	
Ca	43	45	He	-0.013	N/A	23.33	1	
Ti	47	45	He	0.000	N/A	6.33	0.01	
V	51	72	He	0.000	N/A	568.35	0.002	
Cr	52	72	He	0.000	83.00	2168.52	0.001	
Mn	55	72	He	0.000	776.61	130.00	0.002	
Fe	56	72	He	0.001	51.80	10057.01	0.1	
Co	59	72	He	0.000	N/A	73.33	0.001	
Ni	60	72	He	0.000	60.80	290.01	0.001	
Cu	63	72	He	0.000	203.76	106.67	0.002	
Zn	66	72	He	0.012	107.18	3806.82	0.01	CCB Main CR1 Failed
As	75	125	He	0.000	N/A	46.83	0.001	
Sr	88	103	He	0.000	N/A	146.67	0.01	
Mo	95	103	He	0.000	N/A	4.44	0.002	
Ag	107	103	He	0.000	80.27	38.89	0.001	
Cd	111	125	He	0.000	140.20	2.33	0.001	
Sn	118	103	He	0.000	28.07	53.33	0.001	
Sb	121	103	He	0.000	141.35	203.34	0.001	
Ba	137	103	He	0.000	81.04	13.33	0.002	
Se	78	125	HEHe	0.000	42.21	2.83	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	346937.50	1.90	376909.81	92.05	60	120	
Te (No He)	125	No Gas	8779.48	0.82	9124.15	96.22	60	120	
Bi (No He)	209	No Gas	284924.17	1.38	300150.766666667	94.93	60	120	
Sc	45	He	39952.40	1.93	42205.3733333333	94.66	60	120	
Ge	72	He	28631.99	2.46	29959.02	95.57	60	120	
Rh	103	He	420546.05	2.03	438194.366666667	95.97	60	120	
Te	125	He	2425.78	3.36	2533.58	95.75	60	120	
Te (HE He)	125	HEHe	4381.36	1.91	4459.72	98.24	60	120	

Sample Report

Sample Name	L766725-01 WG791805
File Name	159SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 22:31:24
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	144.51	7.33	5	
B	11	45	No Gas	0.076	1.62	12273.45	5	
Se	82	125	No Gas	0.005	14.96	99.44	5	
Tl	205	209	No Gas	0.000	64.51	63.33	5	
Pb	208	209	No Gas	0.000	13.91	206.67	5	
Th	232	209	No Gas	0.863	86.68	40.00	5	
U	238	209	No Gas	0.003	2.56	8799.79	5	
Na	23	45	He	28.848	1.03	5140213.78	90	
Mg	24	45	He	17.708	0.57	1713163.26	90	
Al	27	45	He	0.016	9.21	773.36	90	
K	39	45	He	2.447	1.24	339923.11	90	
Ca	43	45	He	78.669	1.19	25501.52	90	
Ti	47	45	He	0.000	88.22	11.33	5	
V	51	72	He	0.005	2.99	6589.89	5	
Cr	52	72	He	0.001	7.68	3518.79	5	
Mn	55	72	He	0.000	37.32	330.01	5	
Fe	56	72	He	0.012	7.72	23298.92	90	
Co	59	72	He	0.000	N/A	60.00	5	
Ni	60	72	He	0.000	26.42	370.01	5	
Cu	63	72	He	0.000	15.38	523.36	5	
Zn	66	72	He	0.001	7.76	525.01	5	
As	75	125	He	0.001	16.97	214.33	5	
Sr	88	103	He	0.734	1.37	767369.81	5	
Mo	95	103	He	0.002	3.41	1390.08	5	
Ag	107	103	He	0.000	21.30	70.00	1	
Cd	111	125	He	0.000	104.29	2.67	5	
Sn	118	103	He	0.000	20.04	253.34	2	
Sb	121	103	He	0.001	9.83	736.70	1	
Ba	137	103	He	0.154	1.19	48161.26	2	
Se	78	125	HEHe	0.006	6.16	125.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	324871.23	1.68	376909.81	86.19	60	120	
Te (No He)	125	No Gas	7989.00	2.72	9124.15	87.56	60	120	
Bi (No He)	209	No Gas	272508.13	2.20	300150.766666667	90.79	60	120	
Sc	45	He	37151.61	0.98	42205.3733333333	88.03	60	120	
Ge	72	He	29306.59	1.21	29959.02	97.82	60	120	
Rh	103	He	398621.45	0.40	438194.366666667	90.97	60	120	
Te	125	He	2322.43	3.20	2533.58	91.67	60	120	
Te (HE He)	125	HEHe	4035.26	2.53	4459.72	90.48	60	120	

Sample Report

Sample Name	L766725-02 WG791805
File Name	160SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-02 22:33:39
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	70.74	8.67	5	
B	11	45	No Gas	0.071	4.09	11576.23	5	
Se	82	125	No Gas	0.002	26.79	-28.37	5	
Tl	205	209	No Gas	0.000	46.79	73.33	5	
Pb	208	209	No Gas	0.000	2.64	886.71	5	
Th	232	209	No Gas	56.444	10.50	1005.05	5	>LDR
U	238	209	No Gas	0.003	2.25	10767.98	5	
Na	23	45	He	24.710	1.28	4288909.52	90	
Mg	24	45	He	15.917	2.55	1496001.80	90	
Al	27	45	He	0.137	2.65	5752.87	90	
K	39	45	He	2.757	0.41	364133.95	90	
Ca	43	45	He	77.694	1.12	24468.43	90	
Ti	47	45	He	0.003	6.31	95.67	5	
V	51	72	He	0.005	2.47	6131.33	5	
Cr	52	72	He	0.001	10.12	3730.51	5	
Mn	55	72	He	0.008	2.65	6474.88	5	
Fe	56	72	He	0.156	1.44	195166.29	90	
Co	59	72	He	0.000	15.09	246.68	5	
Ni	60	72	He	0.001	18.46	496.69	5	
Cu	63	72	He	0.001	5.79	1060.06	5	
Zn	66	72	He	0.007	6.03	2206.85	5	
As	75	125	He	0.001	6.07	237.83	5	
Sr	88	103	He	0.729	0.19	767432.18	5	
Mo	95	103	He	0.002	3.08	1298.96	5	
Ag	107	103	He	0.000	62.50	60.00	1	
Cd	111	125	He	0.000	56.72	3.00	5	
Sn	118	103	He	0.000	60.87	256.67	2	
Sb	121	103	He	0.001	24.17	953.38	1	
Ba	137	103	He	0.221	2.36	69689.69	2	
Se	78	125	HEHe	0.004	5.88	81.08	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	323371.87	1.38	376909.81	85.8	60	120	
Te (No He)	125	No Gas	8349.23	1.68	9124.15	91.51	60	120	
Bi (No He)	209	No Gas	286176.64	1.50	300150.766666667	95.34	60	120	
Sc	45	He	36092.34	0.50	42205.3733333333	85.52	60	120	
Ge	72	He	28670.92	0.84	29959.02	95.7	60	120	
Rh	103	He	401201.43	0.72	438194.366666667	91.56	60	120	
Te	125	He	2256.86	1.65	2533.58	89.08	60	120	
Te (HE He)	125	HEHe	3999.91	2.00	4459.72	89.69	60	120	

Sample Report

Sample Name	L766887-02 WG791805
File Name	161SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:00:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	69.71	8.00	5	
B	11	45	No Gas	0.472	2.32	59360.76	5	
Se	82	125	No Gas	0.006	47.88	83.03	5	
Tl	205	209	No Gas	0.000	8.95	266.68	5	
Pb	208	209	No Gas	0.000	35.28	226.68	5	
Th	232	209	No Gas	1.988	95.14	38.33	5	
U	238	209	No Gas	0.018	3.09	39684.45	5	
Na	23	45	He	5729.785	0.42	787517588.27	90	>LDR
Mg	24	45	He	1127.477	1.17	85501148.73	90	>LDR
Al	27	45	He	0.034	6.92	1218.40	90	
K	39	45	He	9.409	1.05	881226.89	90	
Ca	43	45	He	1048.546	1.17	266238.10	90	>LDR
Ti	47	45	He	0.001	40.40	24.33	5	
V	51	72	He	0.008	4.23	9873.44	5	
Cr	52	72	He	0.001	13.97	2786.96	5	
Mn	55	72	He	0.937	0.95	777302.07	5	
Fe	56	72	He	0.049	0.75	67741.74	90	
Co	59	72	He	0.006	1.71	13613.33	5	
Ni	60	72	He	0.009	6.56	5747.92	5	
Cu	63	72	He	0.002	9.29	2833.66	5	
Zn	66	72	He	0.003	4.67	1156.72	5	
As	75	125	He	0.004	3.19	643.52	5	
Sr	88	103	He	21.923	0.51	15362342.69	5	>LDR
Mo	95	103	He	0.042	1.69	18849.31	5	
Ag	107	103	He	0.000	13.52	151.12	1	
Cd	111	125	He	0.000	33.65	26.33	5	
Sn	118	103	He	0.000	21.40	176.67	2	
Sb	121	103	He	0.001	22.00	790.04	1	
Ba	137	103	He	0.040	3.02	8332.66	2	
Se	78	125	HEHe	0.012	4.15	161.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	257543.96	1.48	376909.81	68.33	60	120	
Te (No He)	125	No Gas	5480.00	1.86	9124.15	60.06	60	120	
Bi (No He)	209	No Gas	178412.84	2.69	300150.766666667	59.44	60	120	ISTD Failed
Sc	45	He	29125.70	0.42	42205.3733333333	69.01	60	120	
Ge	72	He	28883.44	0.88	29959.02	96.41	60	120	
Rh	103	He	267086.54	1.02	438194.366666667	60.95	60	120	
Te	125	He	1544.54	3.05	2533.58	60.96	60	120	
Te (HE He)	125	HEHe	2816.62	1.53	4459.72	63.16	60	120	

Sample Report

Sample Name	L766887-03 WG791805
File Name	162SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:02:57
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	256.66	4.67	5	
B	11	45	No Gas	0.041	5.66	5194.27	5	
Se	82	125	No Gas	-0.013	N/A	-441.24	5	
Tl	205	209	No Gas	0.000	680.15	23.33	5	
Pb	208	209	No Gas	0.001	4.79	1040.07	5	
Th	232	209	No Gas	0.634	395.09	26.67	5	
U	238	209	No Gas	0.000	38.69	96.67	5	
Na	23	45	He	13.647	2.68	2076700.49	90	
Mg	24	45	He	2.274	0.70	184894.24	90	
Al	27	45	He	0.017	9.51	678.36	90	
K	39	45	He	0.092	29.28	62682.50	90	
Ca	43	45	He	3.461	4.11	962.03	90	
Ti	47	45	He	0.000	27.63	12.00	5	
V	51	72	He	0.001	5.55	1191.73	5	
Cr	52	72	He	0.001	32.60	2300.20	5	
Mn	55	72	He	0.003	6.22	2306.89	5	
Fe	56	72	He	0.030	2.23	37261.58	90	
Co	59	72	He	0.000	52.84	126.67	5	
Ni	60	72	He	0.001	19.65	650.03	5	
Cu	63	72	He	0.000	22.53	603.36	5	
Zn	66	72	He	0.029	0.58	7050.11	5	
As	75	125	He	0.000	9.49	97.33	5	
Sr	88	103	He	0.041	1.12	36193.21	5	
Mo	95	103	He	0.000	52.07	44.44	5	
Ag	107	103	He	0.000	N/A	13.33	1	
Cd	111	125	He	0.000	226.42	1.67	5	
Sn	118	103	He	0.000	15.23	150.00	2	
Sb	121	103	He	0.000	4.84	440.01	1	
Ba	137	103	He	0.000	8.86	83.33	2	
Se	78	125	HEHe	0.000	51.65	2.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	245862.43	0.41	376909.81	65.23	60	120	
Te (No He)	125	No Gas	5982.43	2.80	9124.15	65.57	60	120	
Bi (No He)	209	No Gas	202360.55	0.67	300150.766666667	67.42	60	120	
Sc	45	He	31172.16	1.52	42205.3733333333	73.86	60	120	
Ge	72	He	24134.78	3.04	29959.02	80.56	60	120	
Rh	103	He	332394.82	1.91	438194.366666667	75.86	60	120	
Te	125	He	1891.25	4.32	2533.58	74.65	60	120	
Te (HE He)	125	HEHe	3568.46	1.03	4459.72	80.02	60	120	

Sample Report

Sample Name	L766887-04 WG791805
File Name	163SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:05:13
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	119.94	4.67	5	
B	11	45	No Gas	0.477	2.49	56814.17	5	
Se	82	125	No Gas	-0.002	N/A	-119.16	5	
Tl	205	209	No Gas	0.000	12.91	236.68	5	
Pb	208	209	No Gas	0.000	33.96	200.01	5	
Th	232	209	No Gas	1.093	25.19	28.33	5	
U	238	209	No Gas	0.019	1.88	41594.01	5	
Na	23	45	He	5616.254	2.35	736487135.70	90	>LDR
Mg	24	45	He	1122.972	2.12	81250937.12	90	>LDR
Al	27	45	He	0.031	4.42	1040.05	90	
K	39	45	He	8.906	0.70	798585.54	90	
Ca	43	45	He	1030.858	0.46	249806.30	90	>LDR
Ti	47	45	He	0.001	9.32	19.00	5	
V	51	72	He	0.007	1.72	9556.54	5	
Cr	52	72	He	0.001	8.78	2788.64	5	
Mn	55	72	He	0.882	1.24	728726.37	5	
Fe	56	72	He	0.028	2.30	42469.23	90	
Co	59	72	He	0.006	2.84	13453.14	5	
Ni	60	72	He	0.009	4.57	5534.48	5	
Cu	63	72	He	0.002	3.37	3183.74	5	
Zn	66	72	He	0.003	8.86	968.37	5	
As	75	125	He	0.003	1.71	613.51	5	
Sr	88	103	He	21.343	0.83	15013265.61	5	>LDR
Mo	95	103	He	0.042	0.98	18922.69	5	
Ag	107	103	He	0.000	21.38	117.78	1	
Cd	111	125	He	0.000	22.98	26.00	5	
Sn	118	103	He	0.001	11.14	346.68	2	
Sb	121	103	He	0.002	9.38	1110.07	1	
Ba	137	103	He	0.041	1.12	8569.44	2	
Se	78	125	HEHe	0.012	3.49	165.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	243752.48	1.37	376909.81	64.67	60	120	
Te (No He)	125	No Gas	5498.90	2.14	9124.15	60.27	60	120	
Bi (No He)	209	No Gas	176924.98	0.24	300150.766666667	58.95	60	120	ISTD Failed
Sc	45	He	27797.61	2.15	42205.3733333333	65.86	60	120	
Ge	72	He	28762.16	0.43	29959.02	96.01	60	120	
Rh	103	He	268111.83	1.05	438194.366666667	61.19	60	120	
Te	125	He	1577.88	2.72	2533.58	62.28	60	120	
Te (HE He)	125	HEHe	2837.63	0.74	4459.72	63.63	60	120	

Sample Report

Sample Name	L766918-02 WG791805
File Name	164SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:07:31
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	15.39	59.33	5	
B	11	45	No Gas	0.444	4.19	51515.16	5	
Se	82	125	No Gas	-0.008	N/A	-272.82	5	
Tl	205	209	No Gas	0.000	33.99	200.00	5	
Pb	208	209	No Gas	0.003	4.29	4367.48	5	
Th	232	209	No Gas	377.641	8.02	4144.03	5	>LDR
U	238	209	No Gas	0.009	0.89	19478.23	5	
Na	23	45	He	1916.147	2.40	260979342.78	90	>LDR
Mg	24	45	He	476.466	2.63	35799846.13	90	>LDR
Al	27	45	He	1.830	1.33	60889.79	90	
K	39	45	He	10.185	2.35	941087.90	90	
Ca	43	45	He	731.119	1.95	183948.27	90	>LDR
Ti	47	45	He	0.022	4.98	627.35	5	
V	51	72	He	0.006	2.42	6493.16	5	
Cr	52	72	He	0.007	1.75	9436.46	5	
Mn	55	72	He	0.247	0.44	165179.95	5	
Fe	56	72	He	2.239	1.81	2174646.53	90	
Co	59	72	He	0.003	5.05	4547.45	5	
Ni	60	72	He	0.006	12.24	2900.34	5	
Cu	63	72	He	0.003	6.70	3783.88	5	
Zn	66	72	He	0.014	3.86	3442.11	5	
As	75	125	He	0.002	7.96	387.68	5	
Sr	88	103	He	14.198	0.60	10546016.30	5	>LDR
Mo	95	103	He	0.020	1.69	9308.67	5	
Ag	107	103	He	0.000	31.09	38.89	1	
Cd	111	125	He	0.000	30.04	40.67	5	
Sn	118	103	He	0.000	22.89	183.34	2	
Sb	121	103	He	0.001	30.23	770.04	1	
Ba	137	103	He	0.053	1.93	11805.24	2	
Se	78	125	HEHe	0.011	4.90	146.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	237704.84	1.59	376909.81	63.07	60	120	
Te (No He)	125	No Gas	5590.05	0.80	9124.15	61.27	60	120	
Bi (No He)	209	No Gas	180423.08	0.63	300150.766666667	60.11	60	120	
Sc	45	He	28868.50	2.30	42205.3733333333	68.4	60	120	
Ge	72	He	23298.97	0.56	29959.02	77.77	60	120	
Rh	103	He	283093.87	0.27	438194.366666667	64.6	60	120	
Te	125	He	1561.21	3.68	2533.58	61.62	60	120	
Te (HE He)	125	HEHe	2810.95	2.63	4459.72	63.03	60	120	

Sample Report

Sample Name	L766918-04 WG791805
File Name	165SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:09:47
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	17.08	60.00	5	
B	11	45	No Gas	0.351	1.21	40509.79	5	
Se	82	125	No Gas	0.003	91.40	17.17	5	
Tl	205	209	No Gas	0.000	17.47	270.01	5	
Pb	208	209	No Gas	0.003	2.13	4764.30	5	
Th	232	209	No Gas	470.138	2.87	5107.72	5	>LDR
U	238	209	No Gas	0.010	2.66	22476.56	5	
Na	23	45	He	2870.788	3.13	394074327.46	90	>LDR
Mg	24	45	He	723.906	1.58	54830629.18	90	>LDR
Al	27	45	He	2.758	2.09	92447.18	90	
K	39	45	He	11.772	2.33	1088519.90	90	
Ca	43	45	He	893.906	1.15	226712.20	90	>LDR
Ti	47	45	He	0.036	1.15	1041.04	5	
V	51	72	He	0.007	4.60	7822.17	5	
Cr	52	72	He	0.006	5.29	8744.36	5	
Mn	55	72	He	0.261	2.47	185495.31	5	
Fe	56	72	He	2.580	2.80	2653695.27	90	
Co	59	72	He	0.003	1.43	5314.42	5	
Ni	60	72	He	0.008	5.38	4430.76	5	
Cu	63	72	He	0.003	4.26	4770.86	5	
Zn	66	72	He	0.019	3.42	4834.18	5	
As	75	125	He	0.003	1.33	460.18	5	
Sr	88	103	He	19.239	0.90	14000305.62	5	>LDR
Mo	95	103	He	0.012	3.82	5540.00	5	
Ag	107	103	He	0.000	23.09	48.89	1	
Cd	111	125	He	0.000	22.06	40.00	5	
Sn	118	103	He	0.000	25.62	230.00	2	
Sb	121	103	He	0.002	7.75	1320.08	1	
Ba	137	103	He	0.069	1.20	14991.73	2	
Se	78	125	HEHe	0.020	1.22	275.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	235728.68	0.22	376909.81	62.54	60	120	
Te (No He)	125	No Gas	5596.71	1.87	9124.15	61.34	60	120	
Bi (No He)	209	No Gas	178725.74	0.53	300150.766666667	59.55	60	120	ISTD Failed
Sc	45	He	29095.64	1.45	42205.3733333333	68.94	60	120	
Ge	72	He	24692.39	1.56	29959.02	82.42	60	120	
Rh	103	He	277352.24	0.48	438194.366666667	63.29	60	120	
Te	125	He	1521.20	5.51	2533.58	60.04	60	120	
Te (HE He)	125	HEHe	2834.96	2.64	4459.72	63.57	60	120	

Sample Report

Sample Name	L766918-06 WG791805
File Name	166SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:12:04
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	51.82	4.67	5	
B	11	45	No Gas	0.169	0.05	21560.68	5	
Se	82	125	No Gas	-0.011	N/A	-385.63	5	
Tl	205	209	No Gas	0.000	38.38	86.67	5	
Pb	208	209	No Gas	0.000	50.71	193.34	5	
Th	232	209	No Gas	2.962	42.52	58.33	5	
U	238	209	No Gas	0.018	2.69	45908.82	5	
Na	23	45	He	92.394	0.44	13149838.97	90	
Mg	24	45	He	154.144	1.14	12043988.57	90	>LDR
Al	27	45	He	0.051	2.86	1818.46	90	
K	39	45	He	11.099	0.31	1061663.84	90	
Ca	43	45	He	641.338	0.85	167776.06	90	>LDR
Ti	47	45	He	0.001	27.81	28.67	5	
V	51	72	He	0.010	1.79	11084.30	5	
Cr	52	72	He	0.000	17.35	2111.84	5	
Mn	55	72	He	0.383	1.11	270739.08	5	
Fe	56	72	He	0.061	2.73	70578.41	90	
Co	59	72	He	0.002	1.78	3263.76	5	
Ni	60	72	He	0.004	8.20	1926.83	5	
Cu	63	72	He	0.001	10.27	860.04	5	
Zn	66	72	He	0.002	14.49	643.35	5	
As	75	125	He	0.004	6.16	786.85	5	
Sr	88	103	He	11.217	0.93	9656988.19	5	>LDR
Mo	95	103	He	0.018	3.39	10064.73	5	
Ag	107	103	He	0.000	N/A	10.00	1	
Cd	111	125	He	0.000	19.98	16.67	5	
Sn	118	103	He	0.000	29.46	193.34	2	
Sb	121	103	He	0.001	6.49	1190.07	1	
Ba	137	103	He	0.058	4.04	15085.19	2	
Se	78	125	HEHe	0.001	8.09	11.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	259511.22	1.90	376909.81	68.85	60	120	
Te (No He)	125	No Gas	6301.45	0.83	9124.15	69.06	60	120	
Bi (No He)	209	No Gas	213574.95	1.19	300150.766666667	71.16	60	120	
Sc	45	He	30008.64	0.92	42205.3733333333	71.1	60	120	
Ge	72	He	24593.31	0.71	29959.02	82.09	60	120	
Rh	103	He	328126.44	0.49	438194.366666667	74.88	60	120	
Te	125	He	1779.01	8.58	2533.58	70.22	60	120	
Te (HE He)	125	HEHe	3178.03	2.48	4459.72	71.26	60	120	

Sample Report

Sample Name	L766918-08 WG791805
File Name	167SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:14:18
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	108.81	8.00	5	
B	11	45	No Gas	1.245	1.36	163524.20	5	
Se	82	125	No Gas	0.013	40.64	308.64	5	
Tl	205	209	No Gas	0.000	11.17	336.68	5	
Pb	208	209	No Gas	0.000	6.99	160.00	5	
Th	232	209	No Gas	0.939	88.96	31.67	5	
U	238	209	No Gas	0.097	0.89	249177.40	5	
Na	23	45	He	1986.540	1.30	302568155.49	90	>LDR
Mg	24	45	He	799.917	1.03	67195780.67	90	>LDR
Al	27	45	He	0.024	7.15	958.38	90	
K	39	45	He	38.913	0.63	3862074.32	90	
Ca	43	45	He	862.600	0.32	242643.22	90	>LDR
Ti	47	45	He	0.000	48.10	16.67	5	
V	51	72	He	0.037	1.16	43605.23	5	
Cr	52	72	He	0.000	24.38	2270.20	5	
Mn	55	72	He	0.395	0.82	313116.34	5	
Fe	56	72	He	0.027	4.99	39350.59	90	
Co	59	72	He	0.003	1.09	6504.91	5	
Ni	60	72	He	0.005	2.64	3043.71	5	
Cu	63	72	He	0.003	4.60	3857.26	5	
Zn	66	72	He	0.005	5.36	1560.10	5	
As	75	125	He	0.008	2.72	1505.91	5	
Sr	88	103	He	17.807	0.80	15204253.11	5	>LDR
Mo	95	103	He	0.053	0.19	28644.53	5	
Ag	107	103	He	0.000	33.68	48.89	1	
Cd	111	125	He	0.000	18.85	23.67	5	
Sn	118	103	He	0.003	10.58	1376.77	2	
Sb	121	103	He	0.002	4.82	1790.15	1	
Ba	137	103	He	0.043	8.21	10951.19	2	
Se	78	125	HEHe	0.024	1.08	373.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	269679.31	2.39	376909.81	71.55	60	120	
Te (No He)	125	No Gas	6291.45	3.26	9124.15	68.95	60	120	
Bi (No He)	209	No Gas	210273.03	1.36	300150.766666667	70.06	60	120	
Sc	45	He	32267.77	2.76	42205.3733333333	76.45	60	120	
Ge	72	He	27549.76	0.89	29959.02	91.96	60	120	
Rh	103	He	325431.04	0.37	438194.366666667	74.27	60	120	
Te	125	He	1796.79	0.67	2533.58	70.92	60	120	
Te (HE He)	125	HEHe	3163.36	1.62	4459.72	70.93	60	120	

Sample Report

Sample Name	L767115-02 WG791805
File Name	168SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:16:35
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	74.47	6.67	5	
B	11	45	No Gas	1.478	1.14	214895.76	5	
Se	82	125	No Gas	-0.008	N/A	-325.78	5	
Tl	205	209	No Gas	0.000	15.24	190.00	5	
Pb	208	209	No Gas	0.000	27.95	196.67	5	
Th	232	209	No Gas	0.747	100.98	30.00	5	
U	238	209	No Gas	0.100	0.27	261612.74	5	
Na	23	45	He	2845.162	0.68	462392473.11	90	>LDR
Mg	24	45	He	1071.134	2.48	95993878.57	90	>LDR
Al	27	45	He	0.026	2.16	1090.05	90	
K	39	45	He	15.066	0.85	1632144.93	90	
Ca	43	45	He	1055.184	1.31	316684.52	90	>LDR
Ti	47	45	He	0.000	38.10	22.33	5	
V	51	72	He	0.009	1.49	12001.68	5	
Cr	52	72	He	0.000	N/A	2076.83	5	
Mn	55	72	He	1.841	2.74	1635607.84	5	
Fe	56	72	He	0.382	3.51	500145.24	90	
Co	59	72	He	0.013	3.68	30098.29	5	
Ni	60	72	He	0.008	2.34	5124.33	5	
Cu	63	72	He	0.001	8.77	1883.49	5	
Zn	66	72	He	0.003	8.34	1178.39	5	
As	75	125	He	0.043	4.05	8198.84	5	
Sr	88	103	He	20.290	1.07	17613643.90	5	>LDR
Mo	95	103	He	0.059	1.60	32863.70	5	
Ag	107	103	He	0.000	841.82	15.55	1	
Cd	111	125	He	0.000	17.03	34.33	5	
Sn	118	103	He	0.000	30.25	216.67	2	
Sb	121	103	He	0.002	15.91	1546.79	1	
Ba	137	103	He	0.055	2.12	14247.64	2	
Se	78	125	HEHe	0.001	13.24	25.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	298650.24	1.72	376909.81	79.24	60	120	
Te (No He)	125	No Gas	6571.60	2.97	9124.15	72.02	60	120	
Bi (No He)	209	No Gas	215210.66	0.54	300150.766666667	71.7	60	120	
Sc	45	He	34433.83	2.29	42205.3733333333	81.59	60	120	
Ge	72	He	30935.54	3.19	29959.02	103.26	60	120	
Rh	103	He	330851.66	0.18	438194.366666667	75.5	60	120	
Te	125	He	1802.35	5.58	2533.58	71.14	60	120	
Te (HE He)	125	HEHe	3248.05	3.11	4459.72	72.83	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	169_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:18:54
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.099	1.68	29617.23	0.1	99.23	90	110	
B	11	45	No Gas	0.115	1.40	22819.17	0.1	114.72	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.097	7.41	4282.63	0.1	97.21	90	110	
Tl	205	209	No Gas	0.104	0.70	331421.60	0.1	103.88	90	110	
Pb	208	209	No Gas	0.104	1.28	238546.44	0.1	103.69	90	110	
Th	232	209	No Gas	-0.305	N/A	20.00	0.1	-305.34	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.103	1.46	381097.49	0.1	103.32	90	110	
Na	23	45	He	11.996	1.76	2662044.44	10	119.96	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.819	0.20	1279832.40	10	108.19	90	110	
Al	27	45	He	1.032	1.72	54048.54	1	103.17	90	110	
K	39	45	He	10.650	1.85	1536954.14	10	106.5	90	110	
Ca	43	45	He	10.341	1.40	4123.93	10	103.41	90	110	
Ti	47	45	He	0.103	0.98	4616.07	0.1	102.52	90	110	
V	51	72	He	0.104	0.53	146537.83	0.1	103.91	90	110	
Cr	52	72	He	0.104	0.59	171816.11	0.1	103.94	90	110	
Mn	55	72	He	0.104	1.52	98009.84	0.1	103.67	90	110	
Fe	56	72	He	1.026	1.23	1409795.50	1	102.58	90	110	
Co	59	72	He	0.106	0.42	264391.03	0.1	105.84	90	110	
Ni	60	72	He	0.105	0.99	70478.40	0.1	105.42	90	110	
Cu	63	72	He	0.105	0.61	187327.69	0.1	104.97	90	110	
Zn	66	72	He	0.103	0.64	33602.51	0.1	102.79	90	110	
As	75	125	He	0.105	4.99	31070.97	0.1	105.18	90	110	
Sr	88	103	He	0.105	0.84	131731.56	0.1	105.47	90	110	
Mo	95	103	He	0.104	0.82	82977.60	0.1	104.36	90	110	
Ag	107	103	He	0.106	1.08	246548.47	0.1	106.07	90	110	
Cd	111	125	He	0.105	5.28	35737.04	0.1	104.56	90	110	
Sn	118	103	He	0.104	0.44	78367.03	0.1	103.51	90	110	
Sb	121	103	He	0.103	0.33	115124.33	0.1	102.89	90	110	
Ba	137	103	He	0.102	1.36	38169.81	0.1	102.16	90	110	
Se	78	125	HEHe	0.106	0.98	2498.14	0.1	105.52	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	362024.80	1.15	376909.81	96.05	60	120	
Te (No He)	125	No Gas	8661.64	1.67	9124.15	94.93	60	120	
Bi (No He)	209	No Gas	272634.62	0.44	300150.766666667	90.83	60	120	
Sc	45	He	40878.09	1.80	42205.3733333333	96.86	60	120	
Ge	72	He	29572.66	0.80	29959.02	98.71	60	120	
Rh	103	He	427782.26	0.34	438194.366666667	97.62	60	120	
Te	125	He	2494.68	4.58	2533.58	98.46	60	120	
Te (HE He)	125	HEHe	4338.35	0.99	4459.72	97.28	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	170_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:21:08
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	170.91	4.67	0.001	
B	11	45	No Gas	0.010	5.47	2505.23	0.02	
Se	82	125	No Gas	-0.005	N/A	-327.51	0.001	
Tl	205	209	No Gas	0.000	26.19	323.35	0.001	
Pb	208	209	No Gas	0.000	14.54	1033.39	0.001	
Th	232	209	No Gas	-0.977	N/A	8.33	0.01	
U	238	209	No Gas	0.000	14.81	113.33	0.01	
Na	23	45	He	0.913	4.72	289831.34	1	
Mg	24	45	He	0.038	5.72	4994.37	1	
Al	27	45	He	0.000	N/A	83.33	0.1	
K	39	45	He	-0.003	N/A	71080.68	1	
Ca	43	45	He	0.030	36.12	41.33	1	
Ti	47	45	He	0.000	N/A	4.33	0.01	
V	51	72	He	0.000	N/A	481.68	0.002	
Cr	52	72	He	0.000	N/A	1748.45	0.001	
Mn	55	72	He	0.000	61.36	213.34	0.002	
Fe	56	72	He	0.001	13.51	10270.50	0.1	
Co	59	72	He	0.000	N/A	56.67	0.001	
Ni	60	72	He	0.000	171.89	226.67	0.001	
Cu	63	72	He	0.000	284.41	116.67	0.002	
Zn	66	72	He	0.000	N/A	95.00	0.01	
As	75	125	He	0.000	N/A	53.83	0.001	
Sr	88	103	He	0.001	8.99	950.05	0.01	
Mo	95	103	He	0.000	43.14	28.89	0.002	
Ag	107	103	He	0.000	36.28	398.90	0.001	
Cd	111	125	He	0.000	166.68	1.67	0.001	
Sn	118	103	He	0.000	10.72	83.33	0.001	
Sb	121	103	He	0.000	24.06	453.35	0.001	
Ba	137	103	He	0.000	N/A	0.00	0.002	
Se	78	125	HEHe	0.000	133.95	2.08	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	376787.21	0.42	376909.81	99.97	60	120	
Te (No He)	125	No Gas	9015.19	2.48	9124.15	98.81	60	120	
Bi (No He)	209	No Gas	296913.83	1.40	300150.766666667	98.92	60	120	
Sc	45	He	41264.81	2.09	42205.3733333333	97.77	60	120	
Ge	72	He	30160.55	0.81	29959.02	100.67	60	120	
Rh	103	He	441624.96	0.34	438194.366666667	100.78	60	120	
Te	125	He	2496.91	0.53	2533.58	98.55	60	120	
Te (HE He)	125	HEHe	4353.35	1.56	4459.72	97.61	60	120	

Sample Report

Sample Name	L767115-05 WG791805
File Name	171SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:23:26
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	39.07	15.33	5	
B	11	45	No Gas	1.424	1.23	226562.25	5	
Se	82	125	No Gas	-0.003	N/A	-183.73	5	
Tl	205	209	No Gas	0.000	19.64	280.01	5	
Pb	208	209	No Gas	0.000	9.90	246.68	5	
Th	232	209	No Gas	1.136	76.67	36.67	5	
U	238	209	No Gas	0.096	0.94	263573.05	5	
Na	23	45	He	2858.529	0.57	490922166.02	90	>LDR
Mg	24	45	He	1067.479	0.96	101135648.49	90	>LDR
Al	27	45	He	0.028	2.06	1231.73	90	
K	39	45	He	15.102	2.00	1728871.12	90	
Ca	43	45	He	1038.917	1.55	329563.70	90	>LDR
Ti	47	45	He	0.001	22.71	25.00	5	
V	51	72	He	0.009	1.54	12592.22	5	
Cr	52	72	He	0.000	N/A	2091.83	5	
Mn	55	72	He	1.857	1.74	1672446.69	5	
Fe	56	72	He	0.408	2.01	541336.54	90	
Co	59	72	He	0.013	3.37	31150.46	5	
Ni	60	72	He	0.008	9.15	5261.06	5	
Cu	63	72	He	0.001	3.67	1656.79	5	
Zn	66	72	He	0.006	7.00	1948.48	5	
As	75	125	He	0.041	2.24	8686.63	5	
Sr	88	103	He	20.641	1.26	18422204.31	5	>LDR
Mo	95	103	He	0.059	1.63	33857.11	5	
Ag	107	103	He	0.000	23.39	83.33	1	
Cd	111	125	He	0.000	23.09	24.33	5	
Sn	118	103	He	0.000	9.87	170.00	2	
Sb	121	103	He	0.002	13.11	1596.79	1	
Ba	137	103	He	0.056	3.32	14868.25	2	
Se	78	125	HEHe	0.001	4.00	22.58	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	326783.45	1.52	376909.81	86.7	60	120	
Te (No He)	125	No Gas	6939.54	3.18	9124.15	76.06	60	120	
Bi (No He)	209	No Gas	224354.78	1.91	300150.766666667	74.75	60	120	
Sc	45	He	36391.86	1.33	42205.3733333333	86.23	60	120	
Ge	72	He	31353.23	2.68	29959.02	104.65	60	120	
Rh	103	He	340170.22	1.64	438194.366666667	77.63	60	120	
Te	125	He	1959.04	2.13	2533.58	77.32	60	120	
Te (HE He)	125	HEHe	3335.74	1.00	4459.72	74.8	60	120	

Sample Report

Sample Name	L767115-09 WG791805
File Name	172SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:25:42
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	61.38	9.33	5	
B	11	45	No Gas	0.420	0.69	64391.27	5	
Se	82	125	No Gas	0.001	390.97	-39.76	5	
Tl	205	209	No Gas	0.000	6.88	363.34	5	
Pb	208	209	No Gas	0.000	2.68	263.34	5	
Th	232	209	No Gas	2.332	36.13	48.33	5	
U	238	209	No Gas	0.041	2.82	103666.80	5	
Na	23	45	He	4722.273	3.63	795667054.81	90	>LDR
Mg	24	45	He	1169.463	2.07	108736321.71	90	>LDR
Al	27	45	He	0.051	7.70	2181.85	90	
K	39	45	He	20.808	3.23	2314328.72	90	
Ca	43	45	He	1229.757	2.24	382851.72	90	>LDR
Ti	47	45	He	0.001	34.06	38.67	5	
V	51	72	He	0.017	2.86	24746.14	5	
Cr	52	72	He	0.000	23.27	2931.99	5	
Mn	55	72	He	0.110	0.77	107550.20	5	
Fe	56	72	He	0.047	1.03	76998.12	90	
Co	59	72	He	0.001	6.26	1780.13	5	
Ni	60	72	He	0.002	14.11	1473.44	5	
Cu	63	72	He	0.001	0.29	1500.11	5	
Zn	66	72	He	0.002	19.73	826.70	5	
As	75	125	He	0.008	1.12	1669.77	5	
Sr	88	103	He	26.352	0.63	22726587.16	5	>LDR
Mo	95	103	He	0.034	0.44	18578.92	5	
Ag	107	103	He	0.000	14.06	106.67	1	
Cd	111	125	He	0.000	29.10	34.33	5	
Sn	118	103	He	0.000	16.28	223.34	2	
Sb	121	103	He	0.003	8.32	2136.88	1	
Ba	137	103	He	0.063	4.66	16390.02	2	
Se	78	125	HEHe	0.012	2.72	192.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	313506.64	1.38	376909.81	83.18	60	120	
Te (No He)	125	No Gas	6531.58	2.70	9124.15	71.59	60	120	
Bi (No He)	209	No Gas	205478.85	0.46	300150.766666667	68.46	60	120	
Sc	45	He	35720.20	1.84	42205.3733333333	84.63	60	120	
Ge	72	He	34006.93	2.03	29959.02	113.51	60	120	
Rh	103	He	328689.17	1.08	438194.366666667	75.01	60	120	
Te	125	He	1822.35	2.36	2533.58	71.93	60	120	
Te (HE He)	125	HEHe	3222.38	0.75	4459.72	72.26	60	120	

Sample Report

Sample Name	L767115-10 WG791805
File Name	173SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:27:59
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	115.17	8.67	5	
B	11	45	No Gas	0.281	0.41	47105.78	5	
Se	82	125	No Gas	-0.002	N/A	-144.21	5	
Tl	205	209	No Gas	0.000	48.64	143.34	5	
Pb	208	209	No Gas	0.000	32.34	110.00	5	
Th	232	209	No Gas	0.656	162.90	31.67	5	
U	238	209	No Gas	0.018	3.51	51626.78	5	
Na	23	45	He	49.349	1.85	8794467.78	90	
Mg	24	45	He	117.865	2.38	11479572.33	90	>LDR
Al	27	45	He	0.020	7.02	946.70	90	
K	39	45	He	11.665	0.58	1387977.27	90	
Ca	43	45	He	656.368	1.06	214072.50	90	>LDR
Ti	47	45	He	0.000	26.79	16.33	5	
V	51	72	He	0.037	1.35	47417.19	5	
Cr	52	72	He	0.001	3.54	3097.02	5	
Mn	55	72	He	0.014	2.99	11594.78	5	
Fe	56	72	He	0.012	1.15	24527.74	90	
Co	59	72	He	0.000	25.23	283.34	5	
Ni	60	72	He	0.002	7.80	1380.09	5	
Cu	63	72	He	0.001	7.33	1773.49	5	
Zn	66	72	He	0.001	16.57	536.68	5	
As	75	125	He	0.006	5.55	1507.91	5	
Sr	88	103	He	10.759	0.89	10789876.09	5	>LDR
Mo	95	103	He	0.025	1.46	16018.02	5	
Ag	107	103	He	0.000	42.58	34.44	1	
Cd	111	125	He	0.000	59.75	8.00	5	
Sn	118	103	He	0.000	16.01	213.34	2	
Sb	121	103	He	0.002	2.53	1590.13	1	
Ba	137	103	He	0.029	4.65	8622.87	2	
Se	78	125	HEHe	0.008	7.79	140.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	342217.63	1.55	376909.81	90.8	60	120	
Te (No He)	125	No Gas	7385.33	2.17	9124.15	80.94	60	120	
Bi (No He)	209	No Gas	237318.13	1.23	300150.766666667	79.07	60	120	
Sc	45	He	37413.41	1.20	42205.3733333333	88.65	60	120	
Ge	72	He	29472.44	0.61	29959.02	98.38	60	120	
Rh	103	He	382235.46	1.28	438194.366666667	87.23	60	120	
Te	125	He	2159.07	4.73	2533.58	85.22	60	120	
Te (HE He)	125	HEHe	3615.47	1.62	4459.72	81.07	60	120	

Sample Report

Sample Name	L767115-07 WG791805
File Name	174SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:30:14
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	2.67	6.00	5	
B	11	45	No Gas	0.530	1.53	83599.10	5	
Se	82	125	No Gas	-0.003	N/A	-168.63	5	
Tl	205	209	No Gas	0.000	11.52	320.01	5	
Pb	208	209	No Gas	0.000	16.91	440.01	5	
Th	232	209	No Gas	12.829	13.75	186.67	5	>LDR
U	238	209	No Gas	0.060	1.96	156074.84	5	
Na	23	45	He	4195.798	0.73	718425509.30	90	>LDR
Mg	24	45	He	952.934	0.24	90025165.32	90	>LDR
Al	27	45	He	0.148	1.77	6258.04	90	
K	39	45	He	16.331	0.73	1859294.30	90	
Ca	43	45	He	1067.651	0.61	337687.50	90	>LDR
Ti	47	45	He	0.003	15.58	114.00	5	
V	51	72	He	0.008	2.13	11773.20	5	
Cr	52	72	He	0.000	25.08	2655.27	5	
Mn	55	72	He	0.484	1.16	470335.20	5	
Fe	56	72	He	0.121	1.99	180241.04	90	
Co	59	72	He	0.003	2.95	6898.44	5	
Ni	60	72	He	0.007	8.48	5131.01	5	
Cu	63	72	He	0.001	10.16	2490.25	5	
Zn	66	72	He	0.003	3.89	1180.06	5	
As	75	125	He	0.003	9.24	693.02	5	
Sr	88	103	He	23.273	2.01	20520709.28	5	>LDR
Mo	95	103	He	0.040	1.54	22495.69	5	
Ag	107	103	He	0.000	14.52	61.11	1	
Cd	111	125	He	0.000	26.34	44.00	5	
Sn	118	103	He	0.000	23.73	226.67	2	
Sb	121	103	He	0.003	4.69	2563.64	1	
Ba	137	103	He	0.065	2.85	17234.36	2	
Se	78	125	HEHe	0.007	3.58	119.08	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	322766.92	1.40	376909.81	85.64	60	120	
Te (No He)	125	No Gas	6971.77	1.21	9124.15	76.41	60	120	
Bi (No He)	209	No Gas	214245.83	2.22	300150.766666667	71.38	60	120	
Sc	45	He	36283.91	1.45	42205.3733333333	85.97	60	120	
Ge	72	He	33836.48	1.47	29959.02	112.94	60	120	
Rh	103	He	336112.96	1.34	438194.366666667	76.7	60	120	
Te	125	He	2009.05	7.48	2533.58	79.3	60	120	
Te (HE He)	125	HEHe	3331.40	0.80	4459.72	74.7	60	120	

Sample Report

Sample Name	MS L767115-07 WG791805
File Name	175SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:32:30
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.048	3.33	11990.81	5	
B	11	45	No Gas	0.569	2.03	93830.77	5	
Se	82	125	No Gas	0.048	4.72	1491.13	5	
Tl	205	209	No Gas	0.056	0.61	121254.04	5	
Pb	208	209	No Gas	0.055	1.43	86634.79	5	
Th	232	209	No Gas	13175.160	1.34	164156.94	5	>LDR
U	238	209	No Gas	0.117	0.57	291938.25	5	
Na	23	45	He	4061.402	1.18	725382309.19	90	>LDR
Mg	24	45	He	946.931	1.07	93310655.28	90	>LDR
Al	27	45	He	5.696	1.65	248350.61	90	
K	39	45	He	21.571	1.45	2540513.19	90	
Ca	43	45	He	1044.457	0.82	344603.59	90	>LDR
Ti	47	45	He	0.056	2.40	2096.15	5	
V	51	72	He	0.050	0.97	72486.18	5	
Cr	52	72	He	0.040	1.72	68735.00	5	
Mn	55	72	He	0.537	0.95	517111.88	5	
Fe	56	72	He	4.130	0.67	5757071.99	90	
Co	59	72	He	0.043	0.96	109871.81	5	
Ni	60	72	He	0.047	0.57	31918.91	5	
Cu	63	72	He	0.041	0.29	73768.25	5	
Zn	66	72	He	0.040	4.16	13309.54	5	
As	75	125	He	0.063	5.45	13484.82	5	
Sr	88	103	He	23.561	0.64	20695727.19	5	>LDR
Mo	95	103	He	0.098	1.33	55055.65	5	
Ag	107	103	He	0.054	0.37	88660.40	1	
Cd	111	125	He	0.053	5.06	13055.41	5	
Sn	118	103	He	0.058	0.95	30687.57	2	
Sb	121	103	He	0.062	2.30	48862.88	1	
Ba	137	103	He	0.121	1.19	31797.00	2	
Se	78	125	HEHe	0.066	0.73	1072.04	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	338085.96	1.30	376909.81	89.7	60	120	
Te (No He)	125	No Gas	6910.64	0.86	9124.15	75.74	60	120	
Bi (No He)	209	No Gas	205619.55	0.77	300150.766666667	68.51	60	120	
Sc	45	He	37846.63	0.27	42205.3733333333	89.67	60	120	
Ge	72	He	33487.87	1.04	29959.02	111.78	60	120	
Rh	103	He	334778.73	0.54	438194.366666667	76.4	60	120	
Te	125	He	2011.27	5.03	2533.58	79.38	60	120	
Te (HE He)	125	HEHe	3281.72	1.26	4459.72	73.59	60	120	

Sample Report

Sample Name	MSD L767115-07 WG791805
File Name	176SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:34:48
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.049	0.28	12321.74	5	
B	11	45	No Gas	0.570	1.07	94998.20	5	
Se	82	125	No Gas	0.049	12.17	1530.44	5	
Tl	205	209	No Gas	0.056	2.24	121845.94	5	
Pb	208	209	No Gas	0.055	0.82	86647.60	5	
Th	232	209	No Gas	13210.599	1.20	164787.08	5	>LDR
U	238	209	No Gas	0.116	1.84	290316.87	5	
Na	23	45	He	4056.329	1.68	721476735.92	90	>LDR
Mg	24	45	He	932.309	0.76	91498158.64	90	>LDR
Al	27	45	He	5.704	1.39	247668.67	90	
K	39	45	He	21.550	0.32	2527952.10	90	
Ca	43	45	He	1038.723	0.89	341321.84	90	>LDR
Ti	47	45	He	0.056	2.92	2109.82	5	
V	51	72	He	0.051	2.16	72003.82	5	
Cr	52	72	He	0.041	0.88	68860.49	5	
Mn	55	72	He	0.546	0.62	514390.76	5	
Fe	56	72	He	4.180	0.75	5698387.21	90	
Co	59	72	He	0.043	2.15	108229.71	5	
Ni	60	72	He	0.046	2.52	31053.81	5	
Cu	63	72	He	0.041	1.93	73734.98	5	
Zn	66	72	He	0.040	1.34	13241.18	5	
As	75	125	He	0.062	2.67	13296.14	5	
Sr	88	103	He	23.635	0.20	20684472.19	5	>LDR
Mo	95	103	He	0.097	0.09	54301.54	5	
Ag	107	103	He	0.054	0.24	88298.12	1	
Cd	111	125	He	0.052	3.23	12988.35	5	
Sn	118	103	He	0.056	0.78	29608.53	2	
Sb	121	103	He	0.061	1.52	47581.76	1	
Ba	137	103	He	0.120	1.21	31479.75	2	
Se	78	125	HEHe	0.067	3.33	1060.04	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	341594.12	1.18	376909.81	90.63	60	120	
Te (No He)	125	No Gas	6956.22	2.66	9124.15	76.24	60	120	
Bi (No He)	209	No Gas	205854.08	1.07	300150.766666667	68.58	60	120	
Sc	45	He	37696.32	1.46	42205.3733333333	89.32	60	120	
Ge	72	He	32754.00	0.44	29959.02	109.33	60	120	
Rh	103	He	333560.48	0.87	438194.366666667	76.12	60	120	
Te	125	He	2021.27	1.62	2533.58	79.78	60	120	
Te (HE He)	125	HEHe	3212.04	1.92	4459.72	72.02	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	177SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:37:05
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	9.71	14.67	5	
B	11	45	No Gas	0.384	0.33	13649.65	5	
Se	82	125	No Gas	-0.066	N/A	-555.66	5	
Tl	205	209	No Gas	0.000	12.75	193.34	5	
Pb	208	209	No Gas	0.003	11.95	1190.08	5	
Th	232	209	No Gas	35.879	26.61	121.67	5	>LDR
U	238	209	No Gas	0.027	3.91	14935.55	5	
Na	23	45	He	5480.611	2.39	197442823.72	90	>LDR
Mg	24	45	He	1070.528	0.64	21273008.02	90	>LDR
Al	27	45	He	0.073	8.89	725.02	90	
K	39	45	He	13.136	1.05	370018.38	90	
Ca	43	45	He	1198.273	0.25	79747.65	90	>LDR
Ti	47	45	He	0.001	36.33	17.67	5	
V	51	72	He	0.011	4.23	3195.38	5	
Cr	52	72	He	0.001	112.41	2110.17	5	
Mn	55	72	He	0.739	1.81	116360.84	5	
Fe	56	72	He	0.191	5.52	52053.72	90	
Co	59	72	He	0.005	2.86	2056.85	5	
Ni	60	72	He	0.069	2.90	7848.96	5	
Cu	63	72	He	0.005	5.31	1553.44	5	
Zn	66	72	He	0.057	1.92	3245.39	5	
As	75	125	He	0.004	8.68	238.33	5	
Sr	88	103	He	25.860	1.27	4877873.68	5	
Mo	95	103	He	0.019	4.26	2270.20	5	
Ag	107	103	He	0.000	44.91	175.56	1	
Cd	111	125	He	0.000	47.92	16.33	5	
Sn	118	103	He	0.001	35.39	170.00	2	
Sb	121	103	He	0.004	28.60	873.38	1	
Ba	137	103	He	0.042	8.57	2386.93	2	
Se	78	125	HEHe	0.013	9.13	46.25	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	355039.50	0.67	376909.81	94.2	60	120	
Te (No He)	125	No Gas	7643.26	2.88	9124.15	83.77	60	120	
Bi (No He)	209	No Gas	229807.20	0.91	300150.766666667	76.56	60	120	
Sc	45	He	38160.83	0.48	42205.3733333333	90.42	60	120	
Ge	72	He	27368.30	2.80	29959.02	91.35	60	120	
Rh	103	He	359471.82	0.83	438194.366666667	82.03	60	120	
Te	125	He	2134.62	3.43	2533.58	84.25	60	120	
Te (HE He)	125	HEHe	3551.46	0.99	4459.72	79.63	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	178SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:39:22
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	N/A	2.67	5	
B	11	45	No Gas	0.564	2.57	4280.65	5	
Se	82	125	No Gas	-0.306	N/A	-541.62	5	
Tl	205	209	No Gas	0.000	18.68	56.67	5	
Pb	208	209	No Gas	0.001	47.26	133.34	5	
Th	232	209	No Gas	50.324	83.22	51.67	5	
U	238	209	No Gas	0.029	7.77	3400.52	5	
Na	23	45	He	5934.643	1.04	46383690.98	90	>LDR
Mg	24	45	He	1165.394	1.34	5016192.22	90	
Al	27	45	He	0.077	19.90	233.34	90	
K	39	45	He	14.686	5.11	145155.13	90	
Ca	43	45	He	1331.887	1.64	19221.28	90	
Ti	47	45	He	0.005	103.45	15.67	5	
V	51	72	He	0.011	12.70	1165.06	5	
Cr	52	72	He	0.001	118.79	2110.18	5	
Mn	55	72	He	0.848	2.64	28575.15	5	
Fe	56	72	He	0.460	2.75	31584.77	90	
Co	59	72	He	0.007	9.98	670.03	5	
Ni	60	72	He	0.023	20.34	743.36	5	
Cu	63	72	He	0.006	25.77	473.35	5	
Zn	66	72	He	0.037	11.75	603.35	5	
As	75	125	He	0.006	16.17	101.33	5	
Sr	88	103	He	28.949	0.09	1200242.82	5	
Mo	95	103	He	0.021	2.12	563.35	5	
Ag	107	103	He	0.000	39.05	52.22	1	
Cd	111	125	He	0.001	82.63	7.00	5	
Sn	118	103	He	0.002	46.99	76.67	2	
Sb	121	103	He	0.006	28.12	383.34	1	
Ba	137	103	He	0.042	5.51	530.02	2	
Se	78	125	HEHe	0.013	24.58	11.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	355712.98	1.67	376909.81	94.38	60	120	
Te (No He)	125	No Gas	7973.44	2.38	9124.15	87.39	60	120	
Bi (No He)	209	No Gas	238810.94	0.72	300150.766666667	79.56	60	120	
Sc	45	He	41330.53	1.10	42205.3733333333	97.93	60	120	
Ge	72	He	29186.32	1.12	29959.02	97.42	60	120	
Rh	103	He	394993.00	0.51	438194.366666667	90.14	60	120	
Te	125	He	2243.53	5.69	2533.58	88.55	60	120	
Te (HE He)	125	HEHe	3917.56	0.71	4459.72	87.84	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	179SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:41:38
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.055	2.13	2793.60	5	
B	11	45	No Gas	0.417	1.17	14286.90	5	
Se	82	125	No Gas	0.017	49.32	40.14	5	
Tl	205	209	No Gas	0.059	0.53	27301.90	5	
Pb	208	209	No Gas	0.059	1.95	19675.03	5	
Th	232	209	No Gas	13472.200	0.29	36123.62	5	>LDR
U	238	209	No Gas	0.085	0.55	45988.89	5	
Na	23	45	He	5644.389	1.38	199450810.36	90	>LDR
Mg	24	45	He	1114.146	1.86	21712816.35	90	>LDR
Al	27	45	He	5.984	3.12	51651.63	90	
K	39	45	He	19.226	3.07	501044.74	90	
Ca	43	45	He	1248.726	3.05	81487.97	90	>LDR
Ti	47	45	He	0.058	5.57	438.68	5	
V	51	72	He	0.068	3.38	16180.73	5	
Cr	52	72	He	0.056	1.42	16933.31	5	
Mn	55	72	He	0.803	1.93	124322.77	5	
Fe	56	72	He	5.534	1.48	1246958.08	90	
Co	59	72	He	0.060	1.40	24738.12	5	
Ni	60	72	He	0.066	5.01	7445.39	5	
Cu	63	72	He	0.057	2.62	16753.26	5	
Zn	66	72	He	0.074	0.62	4133.96	5	
As	75	125	He	0.067	3.30	3132.84	5	
Sr	88	103	He	26.769	1.11	4947581.70	5	
Mo	95	103	He	0.080	2.13	9409.84	5	
Ag	107	103	He	0.057	2.14	19815.14	1	
Cd	111	125	He	0.056	4.42	2987.66	5	
Sn	118	103	He	0.061	6.63	6828.48	2	
Sb	121	103	He	0.067	3.42	11228.05	1	
Ba	137	103	He	0.106	2.44	5864.70	2	
Se	78	125	HEHe	0.077	2.01	259.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	343032.81	2.19	376909.81	91.01	60	120	
Te (No He)	125	No Gas	7283.05	1.96	9124.15	79.82	60	120	
Bi (No He)	209	No Gas	221134.09	0.24	300150.766666667	73.67	60	120	
Sc	45	He	37434.49	2.07	42205.3733333333	88.7	60	120	
Ge	72	He	26936.40	1.95	29959.02	89.91	60	120	
Rh	103	He	352221.31	0.70	438194.366666667	80.38	60	120	
Te	125	He	2172.41	2.98	2533.58	85.74	60	120	
Te (HE He)	125	HEHe	3435.76	0.97	4459.72	77.04	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	180SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:43:56
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.053	1.50	2632.24	5	
B	11	45	No Gas	0.407	2.73	13678.00	5	
Se	82	125	No Gas	0.021	61.21	61.46	5	
Tl	205	209	No Gas	0.059	0.77	25899.11	5	
Pb	208	209	No Gas	0.057	3.41	18316.38	5	
Th	232	209	No Gas	13502.905	1.02	34363.85	5	>LDR
U	238	209	No Gas	0.086	1.88	43961.76	5	
Na	23	45	He	5635.480	1.88	199234957.03	90	>LDR
Mg	24	45	He	1107.727	0.89	21602594.68	90	>LDR
Al	27	45	He	5.853	1.72	50564.57	90	
K	39	45	He	19.241	1.30	501741.65	90	
Ca	43	45	He	1242.555	0.59	81155.26	90	>LDR
Ti	47	45	He	0.057	5.79	429.34	5	
V	51	72	He	0.068	2.09	16237.50	5	
Cr	52	72	He	0.056	1.31	16773.08	5	
Mn	55	72	He	0.806	1.35	124500.83	5	
Fe	56	72	He	5.485	0.55	1232414.80	90	
Co	59	72	He	0.061	0.13	24818.30	5	
Ni	60	72	He	0.064	0.39	7161.87	5	
Cu	63	72	He	0.058	3.17	16896.89	5	
Zn	66	72	He	0.062	3.70	3473.79	5	
As	75	125	He	0.067	4.92	3042.49	5	
Sr	88	103	He	26.815	2.09	4887581.38	5	
Mo	95	103	He	0.081	2.09	9372.04	5	
Ag	107	103	He	0.057	2.20	19364.53	1	
Cd	111	125	He	0.056	6.23	2896.30	5	
Sn	118	103	He	0.063	1.67	7001.89	2	
Sb	121	103	He	0.066	4.51	10927.81	1	
Ba	137	103	He	0.106	5.99	5781.35	2	
Se	78	125	HEHe	0.077	2.23	263.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	336847.39	1.29	376909.81	89.37	60	120	
Te (No He)	125	No Gas	6932.88	3.95	9124.15	75.98	60	120	
Bi (No He)	209	No Gas	209900.20	1.20	300150.766666667	69.93	60	120	
Sc	45	He	37451.22	0.93	42205.3733333333	88.74	60	120	
Ge	72	He	26855.09	0.59	29959.02	89.64	60	120	
Rh	103	He	347400.40	1.28	438194.366666667	79.28	60	120	
Te	125	He	2113.51	4.27	2533.58	83.42	60	120	
Te (HE He)	125	HEHe	3476.77	0.71	4459.72	77.96	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	181_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:46:12
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.103	1.24	30367.35	0.1	102.65	90	110	
B	11	45	No Gas	0.102	4.29	20187.08	0.1	102.18	90	110	
Se	82	125	No Gas	0.101	1.25	4206.11	0.1	101.41	90	110	
Tl	205	209	No Gas	0.107	2.51	304572.61	0.1	107.03	90	110	
Pb	208	209	No Gas	0.106	0.75	217636.87	0.1	106.05	90	110	
Th	232	209	No Gas	7.762	19.29	150.00	0.1	7762.17	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.103	1.23	339700.53	0.1	103.25	90	110	
Na	23	45	He	11.962	1.52	2659519.96	10	119.62	90	110	CCV Main CR1 Failed
Mg	24	45	He	10.914	0.80	1293151.80	10	109.14	90	110	
Al	27	45	He	1.073	0.78	56296.94	1	107.28	90	110	
K	39	45	He	11.233	1.34	1620097.37	10	112.33	90	110	CCV Main CR1 Failed
Ca	43	45	He	11.120	2.17	4438.68	10	111.2	90	110	CCV Main CR1 Failed
Ti	47	45	He	0.108	1.43	4859.15	0.1	107.74	90	110	
V	51	72	He	0.107	1.66	149019.60	0.1	106.97	90	110	
Cr	52	72	He	0.106	1.05	173297.54	0.1	106.14	90	110	
Mn	55	72	He	0.106	1.33	98691.23	0.1	105.68	90	110	
Fe	56	72	He	1.073	0.66	1456014.46	1	107.26	90	110	
Co	59	72	He	0.107	2.08	263251.16	0.1	106.68	90	110	
Ni	60	72	He	0.106	2.33	70203.54	0.1	106.29	90	110	
Cu	63	72	He	0.106	0.83	186581.02	0.1	105.82	90	110	
Zn	66	72	He	0.105	0.81	34030.27	0.1	105.38	90	110	
As	75	125	He	0.109	1.73	31457.83	0.1	108.83	90	110	
Sr	88	103	He	0.112	0.60	131381.10	0.1	112.22	90	110	CCV Main CR1 Failed
Mo	95	103	He	0.109	0.82	81270.94	0.1	109.04	90	110	
Ag	107	103	He	0.109	0.51	237008.20	0.1	108.78	90	110	
Cd	111	125	He	0.104	1.82	34886.60	0.1	104.3	90	110	
Sn	118	103	He	0.107	2.71	75950.44	0.1	107.03	90	110	
Sb	121	103	He	0.107	0.27	112412.45	0.1	107.18	90	110	
Ba	137	103	He	0.106	0.77	37036.96	0.1	105.74	90	110	
Se	78	125	HEHe	0.112	2.41	2453.54	0.1	111.54	90	110	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	358770.12	0.54	376909.81	95.19	60	120	
Te (No He)	125	No Gas	8142.43	1.99	9124.15	89.24	60	120	
Bi (No He)	209	No Gas	243197.29	0.63	300150.766666667	81.03	60	120	
Sc	45	He	40948.38	1.49	42205.3733333333	97.02	60	120	
Ge	72	He	29219.72	1.30	29959.02	97.53	60	120	
Rh	103	He	401001.75	0.54	438194.366666667	91.51	60	120	
Te	125	He	2438.01	2.06	2533.58	96.23	60	120	
Te (HE He)	125	HEHe	4032.59	2.17	4459.72	90.42	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	182_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 01:48:28
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	149.85	8.00	0.001	
B	11	45	No Gas	0.006	16.82	1471.75	0.02	
Se	82	125	No Gas	-0.008	N/A	-417.19	0.001	
Tl	205	209	No Gas	0.000	25.46	283.34	0.001	
Pb	208	209	No Gas	0.000	0.77	900.05	0.001	
Th	232	209	No Gas	-0.518	N/A	15.00	0.01	
U	238	209	No Gas	0.000	29.00	96.67	0.01	
Na	23	45	He	0.945	3.59	295607.64	1	
Mg	24	45	He	0.011	5.12	1713.50	1	
Al	27	45	He	0.000	139.46	106.67	0.1	
K	39	45	He	0.027	43.21	74832.33	1	
Ca	43	45	He	-0.008	N/A	26.00	1	
Ti	47	45	He	0.000	N/A	6.67	0.01	
V	51	72	He	0.000	N/A	531.68	0.002	
Cr	52	72	He	0.000	N/A	1988.49	0.001	
Mn	55	72	He	0.000	69.86	180.00	0.002	
Fe	56	72	He	0.001	14.98	11161.11	0.1	
Co	59	72	He	0.000	N/A	80.00	0.001	
Ni	60	72	He	0.000	43.28	260.01	0.001	
Cu	63	72	He	0.000	365.18	113.33	0.002	
Zn	66	72	He	0.000	N/A	143.33	0.01	
As	75	125	He	0.000	88.95	56.50	0.001	
Sr	88	103	He	0.000	16.51	310.01	0.01	
Mo	95	103	He	0.000	99.97	21.11	0.002	
Ag	107	103	He	0.000	33.24	320.01	0.001	
Cd	111	125	He	0.000	86.57	3.67	0.001	
Sn	118	103	He	0.000	69.86	63.33	0.001	
Sb	121	103	He	0.000	20.48	466.68	0.001	
Ba	137	103	He	0.000	84.44	30.00	0.002	
Se	78	125	HEHe	0.000	128.69	2.75	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	362089.36	0.77	376909.81	96.07	60	120	
Te (No He)	125	No Gas	8228.04	0.77	9124.15	90.18	60	120	
Bi (No He)	209	No Gas	253590.48	0.36	300150.766666667	84.49	60	120	
Sc	45	He	41093.19	1.96	42205.3733333333	97.36	60	120	
Ge	72	He	29193.00	0.63	29959.02	97.44	60	120	
Rh	103	He	408496.90	0.74	438194.366666667	93.22	60	120	
Te	125	He	2458.01	4.23	2533.58	97.02	60	120	
Te (HE He)	125	HEHe	4062.60	0.30	4459.72	91.1	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	229ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 03:33:45
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	106.428	1.50	22285171.33	100	80	120	
Mg	24	45	He	105.269	0.15	12114518.15	100	80	120	
Al	27	45	He	104.093	1.15	5298664.61	100	80	120	
K	39	45	He	103.703	1.82	13964481.04	100	80	120	
Ca	43	45	He	102.823	0.90	39644.23	100	80	120	
Ti	47	45	He	2.110	1.39	92305.62	2	80	120	
Fe	56	72	He	99.212	0.93	135241157.99	100	80	120	
Mo	95	103	He	2.261	2.04	1758865.94	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	386900.57	0.48	376909.81	102.65	60	120	
Te (No He)	125	No Gas	9037.42	1.58	9124.15	99.05	60	120	
Bi (No He)	209	No Gas	293514.56	0.70	300150.766666667	97.79	60	120	
Sc	45	He	39779.55	0.06	42205.3733333333	94.25	60	120	
Ge	72	He	29528.12	1.22	29959.02	98.56	60	120	
Rh	103	He	418438.80	1.01	438194.366666667	95.49	60	120	
Te	125	He	2435.78	4.67	2533.58	96.14	60	120	
Te (HE He)	125	HEHe	4141.96	2.74	4459.72	92.87	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	230ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq Time	2015-06-03 03:35:57
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	133CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.020	1.23	6257.32	0.02	80	120	
B	11	45	No Gas	0.023	4.14	5097.58	0.02	80	120	
Se	82	125	No Gas	0.020	7.66	828.42	0.02	80	120	
Tl	205	209	No Gas	0.022	0.89	74701.27	0.02	80	120	
Pb	208	209	No Gas	0.022	1.26	55199.09	0.02	80	120	
U	238	209	No Gas	0.022	1.99	87934.99	0.02	80	120	
Na	23	45	He	107.227	1.52	22310803.00	100	80	120	
Mg	24	45	He	105.573	1.21	12073176.49	100	80	120	
Al	27	45	He	105.412	1.15	5332201.38	100	80	120	
K	39	45	He	105.994	0.99	14182720.21	100	80	120	
Ca	43	45	He	104.664	0.98	40101.41	100	80	120	
Ti	47	45	He	2.139	1.24	92990.06	2	80	120	
V	51	72	He	0.021	1.95	29691.97	0.02	80	120	
Cr	52	72	He	0.022	1.73	38098.21	0.02	80	120	
Mn	55	72	He	0.022	1.94	20538.14	0.02	80	120	
Fe	56	72	He	102.635	2.14	137801031.28	100	80	120	
Co	59	72	He	0.022	0.98	53378.87	0.02	80	120	
Ni	60	72	He	0.022	0.47	14620.94	0.02	80	120	
Cu	63	72	He	0.022	0.92	38401.47	0.02	80	120	
Zn	66	72	He	0.023	1.89	7617.06	0.02	80	120	
As	75	125	He	0.022	2.63	6404.76	0.02	80	120	
Sr	88	103	He	0.024	1.15	29070.08	0.02	80	120	
Mo	95	103	He	2.291	0.33	1773384.72	2	80	120	
Ag	107	103	He	0.022	1.19	49619.70	0.02	80	120	
Cd	111	125	He	0.022	1.20	7672.44	0.02	80	120	
Sn	118	103	He	0.023	1.30	17214.23	0.02	80	120	
Sb	121	103	He	0.024	2.39	25874.45	0.02	80	120	
Ba	137	103	He	0.023	4.26	8506.08	0.02	80	120	
Se	78	125	HEHe	0.022	1.67	492.76	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	379288.08	1.02	376909.81	100.63	60	120	
Te (No He)	125	No Gas	8801.71	1.21	9124.15	96.47	60	120	
Bi (No He)	209	No Gas	293278.74	2.19	300150.766666667	97.71	60	120	
Sc	45	He	39532.24	0.88	42205.3733333333	93.67	60	120	
Ge	72	He	29088.32	1.77	29959.02	97.09	60	120	
Rh	103	He	416539.72	0.53	438194.366666667	95.06	60	120	
Te	125	He	2494.68	3.10	2533.58	98.46	60	120	
Te (HE He)	125	HEHe	4055.93	2.75	4459.72	90.95	60	120	

Tune Report

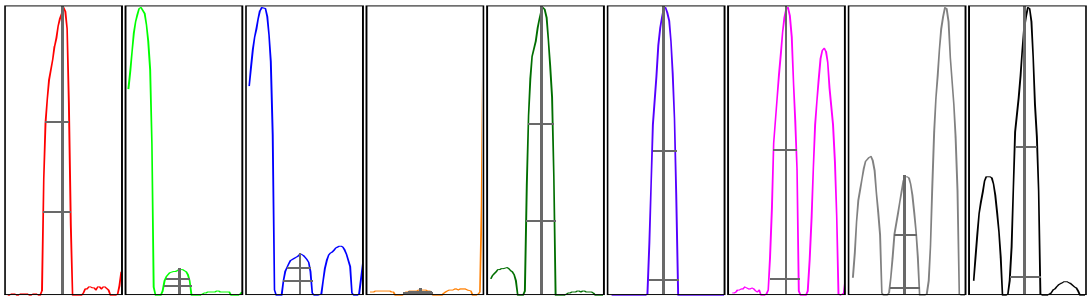
Batch Folder	C:\Agilent\ICPMH\1\DATA\060215ICPMS8.b
Acq. Date-Time	2015-06-02 08:37
Report Comment	EPA TUNE: 15D23558 I.S.: 15D26679
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	2.66	5.00	
24	1.25	5.00	
25	2.83	5.00	
26	1.20	5.00	
59	1.42	5.00	
115	1.26	5.00	
206	1.31	5.00	
207	1.33	5.00	
208	0.89	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	1316	1387	1369	1353	1413
24	10334	10310	10523	10570	10578
25	1541	1546	1633	1576	1632
26	1901	1950	1921	1908	1891
59	21380	21778	21936	22135	22121
115	27354	27671	27743	27998	28281
206	4148	4119	4165	4148	4261
207	3518	3439	3522	3534	3566
208	8443	8507	8489	8522	8646

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	240.62	9.00	8.9 - 9.1		0.61	0.710	0.850	
24	1782.35	23.90	23.9 - 24.1		0.61	0.691	0.850	
25	251.43	24.90	24.9 - 25.1		0.60	0.722	0.850	
26	305.04	25.90	25.9 - 26.1		0.62	0.718	0.850	
59	3685.34	58.90	58.9 - 59.1		0.62	0.736	0.850	
115	4899.70	114.95	114.9 - 115.1		0.59	0.779	0.850	
206	759.68	206.00	205.9 - 206.1		0.58	0.777	0.850	
207	651.22	206.95	206.9 - 207.1		0.56	0.775	0.850	
208	1579.27	207.95	207.9 - 208.1		0.57	0.785	0.850	

Tune Report

Integration Time [sec]	0.1	**Acquisition Time [sec]**	212.5	**Y Axis**	Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-110 V	Deflect	18.0 V
Omega Lens	8.7 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Tune Report

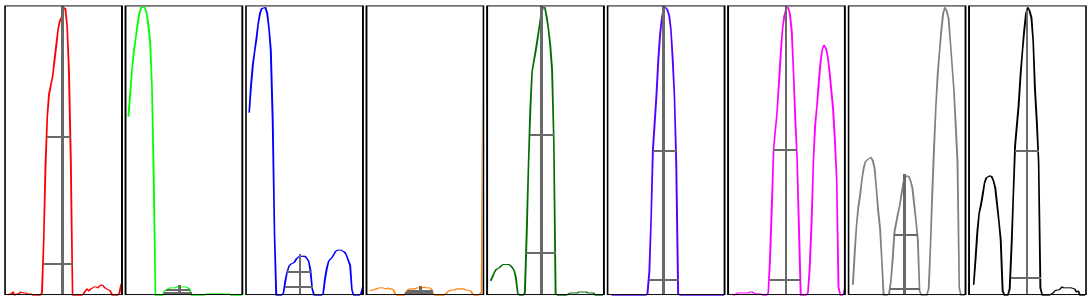
Batch Folder	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq. Date-Time	2015-06-03 06:38
Report Comment	EPA TUNE: 15D23558 I.S.: 15F03678
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	3.31	5.00	
24	3.71	5.00	
25	4.03	5.00	
26	4.00	5.00	
59	2.57	5.00	
115	2.67	5.00	
206	2.46	5.00	
207	2.09	5.00	
208	1.64	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	1427	1486	1521	1536	1552
24	12966	13930	14108	14085	14239
25	1838	2017	1956	2040	1994
26	2079	2308	2278	2252	2237
59	23645	24656	24982	25089	25215
115	29600	30696	31222	31236	31786
206	4622	4795	4678	4826	4914
207	3975	4059	4139	4130	4199
208	9616	9844	9794	9949	10040

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
9	261.58	9.00	8.9 - 9.1		0.61	0.762	0.850	
24	2376.74	23.90	23.9 - 24.1		0.62	0.708	0.850	
25	329.34	24.90	24.9 - 25.1		0.60	0.714	0.850	
26	367.85	25.90	25.9 - 26.1		0.63	0.713	0.850	
59	4162.68	58.90	58.9 - 59.1		0.62	0.755	0.850	
115	5495.15	114.95	114.9 - 115.1		0.59	0.763	0.850	
206	853.79	206.00	205.9 - 206.1		0.59	0.820	0.850	
207	740.92	206.95	206.9 - 207.1		0.59	0.774	0.850	
208	1768.77	208.00	207.9 - 208.1		0.59	0.783	0.850	

Tune Report

Integration Time [sec]	0.1	**Acquisition Time [sec]**	212.5	**Y Axis**	Linear

Tune Parameters
Plasma Paramters

Plasma Mode	HMI	Aerosol Dilution	HMI-8

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-50 V
Omega Bias	-110 V	Deflect	17.2 V
Omega Lens	8.4 V	Plate Bias	-40 V

Cell Parameters

Use Gas	true	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 06:56:12
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	10.00	80.00
B	11	45	No Gas	375.01	19.91
Tl	205	209	No Gas	26.67	43.30
Pb	208	209	No Gas	60.00	16.67
Th	232	209	No Gas	6.67	114.56
U	238	209	No Gas	13.33	43.30
Na	23	45	He	77476.92	2.15
Mg	24	45	He	480.03	32.54
Al	27	45	He	130.00	23.40
K	39	45	He	66620.11	1.92
Ca	43	45	He	24.00	16.67
Ti	47	45	He	7.33	28.39
V	51	72	He	285.01	15.19
Cr	52	72	He	2053.50	1.23
Mn	55	72	He	173.33	21.84
Fe	56	72	He	14117.10	3.92
Co	59	72	He	43.33	13.32
Ni	60	72	He	216.67	18.65
Cu	63	72	He	156.67	16.06
Zn	66	72	He	670.02	9.76
As	75	125	He	42.50	6.55
Sr	88	103	He	136.67	8.45
Mo	95	103	He	11.11	75.52
Ag	107	103	He	14.44	35.26
Sn	118	103	He	53.33	47.19
Sb	121	103	He	136.67	15.23
Ba	137	103	He	10.00	100.00
Se	78	125	HEHe	1.83	43.83

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	451169.13	0.90
Te (No He)	125	No Gas	9232.01	1.61
Bi (No He)	209	No Gas	290522.48	0.86

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	38678.87	0.93
Ge	72	He	28625.18	1.43
Rh	103	He	431612.46	1.18
Te	125	He	2508.02	1.66
Te (HE He)	125	HEHe	4182.30	3.34

Calibration Blank Report

Sample Name	CALBLK 15D23551
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 06:58:44
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3.33	91.65
B	11	45	No Gas	345.01	18.16
Tl	205	209	No Gas	30.00	66.67
Pb	208	209	No Gas	53.33	28.64
Th	232	209	No Gas	8.33	34.64
U	238	209	No Gas	26.67	21.65
Na	23	45	He	76270.08	1.18
Mg	24	45	He	333.35	22.72
Al	27	45	He	113.33	15.49
K	39	45	He	69177.73	0.68
Ca	43	45	He	31.33	26.57
Ti	47	45	He	5.67	40.75
V	51	72	He	260.00	9.62
Cr	52	72	He	2148.51	2.33
Mn	55	72	He	146.67	20.83
Fe	56	72	He	12065.24	3.21
Co	59	72	He	76.67	15.06
Ni	60	72	He	206.67	38.81
Cu	63	72	He	166.67	24.98
Zn	66	72	He	613.35	10.61
As	75	125	He	43.33	12.01
Sr	88	103	He	123.33	26.06
Mo	95	103	He	6.67	86.60
Ag	107	103	He	10.00	66.70
Sn	118	103	He	56.67	26.96
Sb	121	103	He	130.00	13.32
Ba	137	103	He	10.00	100.00
Se	78	125	HEHe	1.50	28.87

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	447603.21	0.71
Te (No He)	125	No Gas	9280.93	3.32
Bi (No He)	209	No Gas	292178.27	1.21

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	He	38822.62	1.16
Ge	72	He	28341.34	0.45
Rh	103	He	436512.60	0.14
Te	125	He	2528.02	3.21
Te (HE He)	125	HEHe	4093.94	4.42

Calibration Standard Report

Sample Name	STD1 15D23552
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:01:15
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	402.01	2.49
B	11	45	No Gas	735.03	5.14
Tl	205	209	No Gas	3253.79	2.05
Pb	208	209	No Gas	2720.33	8.67
Th	232	209	No Gas	4429.13	2.73
U	238	209	No Gas	3770.61	3.83
Na	23	45	He	98863.01	1.72
Mg	24	45	He	12866.02	4.99
Al	27	45	He	708.35	7.21
K	39	45	He	82895.19	2.82
Ca	43	45	He	82.00	19.36
Ti	47	45	He	56.67	35.31
V	51	72	He	1733.45	2.60
Cr	52	72	He	3642.15	3.89
Mn	55	72	He	1326.75	9.36
Fe	56	72	He	26220.80	2.25
Co	59	72	He	2540.26	7.22
Ni	60	72	He	1190.07	10.33
Cu	63	72	He	2113.53	6.98
Zn	66	72	He	1091.72	1.40
As	75	125	He	349.00	3.82
Sr	88	103	He	1520.11	12.94
Mo	95	103	He	788.92	3.99
Ag	107	103	He	2313.54	3.74
Cd	111	125	He	366.01	7.88
Sn	118	103	He	996.73	3.23
Sb	121	103	He	1216.75	10.85
Ba	137	103	He	400.01	12.50
Se	78	125	HEHe	25.67	22.75

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	450589.26	0.80	447603.21	100.67	60	120	
Te (No He)	125	No Gas	9418.81	1.29	9280.92666666667	101.49	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	289704.54	1.07	292178.27	99.15	60	120	
Sc	45	He	39259.36	0.55	38822.62	101.12	60	120	
Ge	72	He	28306.85	1.09	28341.3366666667	99.88	60	120	
Rh	103	He	442649.10	1.05	436512.6	101.41	60	120	
Te	125	He	2536.91	1.52	2528.02333333333	100.35	60	120	
Te (HE He)	125	HEHe	4205.98	2.46	4093.94	102.74	60	120	

Calibration Standard Report

Sample Name	STD2 15D23552
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:03:47
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	774.02	0.93
B	11	45	No Gas	915.04	3.32
Tl	205	209	No Gas	6795.22	5.31
Pb	208	209	No Gas	6274.97	4.95
Th	232	209	No Gas	9215.02	1.42
U	238	209	No Gas	7822.50	2.31
Na	23	45	He	125073.52	0.89
Mg	24	45	He	25115.26	1.47
Al	27	45	He	1348.41	2.78
K	39	45	He	96539.03	1.67
Ca	43	45	He	123.33	6.55
Ti	47	45	He	103.00	5.41
V	51	72	He	3057.01	1.48
Cr	52	72	He	5649.48	3.51
Mn	55	72	He	2156.86	6.56
Fe	56	72	He	116709.87	0.83
Co	59	72	He	5457.80	9.51
Ni	60	72	He	1856.82	6.22
Cu	63	72	He	4227.35	4.58
Zn	66	72	He	1608.44	8.54
As	75	125	He	664.19	2.26
Sr	88	103	He	2973.69	6.13
Mo	95	103	He	1633.43	5.02
Ag	107	103	He	4987.58	2.72
Cd	111	125	He	746.69	1.01
Sn	118	103	He	1796.82	4.86
Sb	121	103	He	2686.98	10.34
Ba	137	103	He	820.04	4.40
Se	78	125	HEHe	53.08	1.36

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	449595.79	0.60	447603.21	100.45	60	120	
Te (No He)	125	No Gas	9487.74	3.47	9280.92666666667	102.23	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Bi (No He)	209	No Gas	292271.66	0.40	292178.27	100.03	60	120	
Sc	45	He	39118.94	0.35	38822.62	100.76	60	120	
Ge	72	He	28995.96	0.53	28341.3366666667	102.31	60	120	
Rh	103	He	441293.65	0.65	436512.6	101.1	60	120	
Te	125	He	2559.14	2.30	2528.02333333333	101.23	60	120	
Te (HE He)	125	HEHe	4258.32	1.55	4093.94	104.02	60	120	

Calibration Standard Report

Sample Name	STD3 15D23552
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:06:18
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	3949.87	1.99
B	11	45	No Gas	3175.36	5.48
Se	82	125	No Gas	391.33	37.73
Tl	205	209	No Gas	36470.71	2.07
Pb	208	209	No Gas	26363.41	2.08
Th	232	209	No Gas	46827.77	0.32
U	238	209	No Gas	41898.39	1.02
Na	23	45	He	301801.26	0.33
Mg	24	45	He	124602.62	0.91
Al	27	45	He	5526.09	1.11
K	39	45	He	213194.82	0.95
Ca	43	45	He	436.01	16.31
Ti	47	45	He	466.01	6.04
V	51	72	He	14604.07	1.56
Cr	52	72	He	18633.68	1.08
Mn	55	72	He	9873.52	3.49
Fe	56	72	He	150248.43	1.57
Co	59	72	He	27035.53	2.46
Ni	60	72	He	7625.46	3.38
Cu	63	72	He	19530.19	3.31
Zn	66	72	He	3998.92	3.98
As	75	125	He	3168.85	0.79
Sr	88	103	He	12952.82	3.89
Mo	95	103	He	8385.85	1.36
Ag	107	103	He	25369.59	1.26
Cd	111	125	He	3756.85	1.43
Sn	118	103	He	8426.06	0.79
Sb	121	103	He	13216.47	2.73
Ba	137	103	He	4200.73	4.99
Se	78	125	HEHe	230.17	4.22

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	455099.42	0.89	447603.21	101.67	60	120	
Te (No He)	125	No Gas	9781.25	0.59	9280.92666666667	105.39	60	120	
Bi (No He)	209	No Gas	297969.71	0.30	292178.27	101.98	60	120	
Sc	45	He	39664.80	0.93	38822.62	102.17	60	120	
Ge	72	He	29068.32	1.05	28341.3366666667	102.57	60	120	
Rh	103	He	442361.53	0.38	436512.6	101.34	60	120	
Te	125	He	2703.61	1.98	2528.02333333333	106.95	60	120	
Te (HE He)	125	HEHe	4324.68	2.51	4093.94	105.64	60	120	

Calibration Standard Report

Sample Name	STD4 15D23552
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:08:48
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	19385.19	1.07
B	11	45	No Gas	14418.70	1.96
Se	82	125	No Gas	2414.61	4.95
Tl	205	209	No Gas	176013.92	0.63
Pb	208	209	No Gas	126524.46	1.85
Th	232	209	No Gas	227986.03	0.83
U	238	209	No Gas	200362.25	1.17
Na	23	45	He	1195826.78	0.68
Mg	24	45	He	609670.52	1.61
Al	27	45	He	27335.31	0.25
K	39	45	He	761776.53	0.74
Ca	43	45	He	1952.14	2.06
Ti	47	45	He	2320.85	1.08
V	51	72	He	70837.08	0.69
Cr	52	72	He	83163.29	0.67
Mn	55	72	He	48501.65	2.42
Fe	56	72	He	685735.48	1.39
Co	59	72	He	129516.13	0.41
Ni	60	72	He	34324.33	2.53
Cu	63	72	He	92381.36	2.19
Zn	66	72	He	17288.81	0.29
As	75	125	He	15310.31	0.50
Sr	88	103	He	62962.89	0.70
Mo	95	103	He	40712.86	0.76
Ag	107	103	He	123410.27	0.43
Cd	111	125	He	18010.54	0.67
Sn	118	103	He	41502.33	2.33
Sb	121	103	He	62574.26	1.74
Ba	137	103	He	20074.95	4.17
Se	78	125	HEHe	1141.46	2.63

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	457288.34	1.28	447603.21	102.16	60	120	
Te (No He)	125	No Gas	9820.20	2.73	9280.92666666667	105.81	60	120	
Bi (No He)	209	No Gas	290649.63	0.58	292178.27	99.48	60	120	
Sc	45	He	40099.38	0.32	38822.62	103.29	60	120	
Ge	72	He	29289.86	1.98	28341.3366666667	103.35	60	120	
Rh	103	He	441208.69	0.38	436512.6	101.08	60	120	
Te	125	He	2774.74	3.91	2528.02333333333	109.76	60	120	
Te (HE He)	125	HEHe	4336.68	1.25	4093.94	105.93	60	120	

Calibration Standard Report

Sample Name	STD5 15D23552
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:11:18
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	39415.60	1.18
B	11	45	No Gas	28201.67	1.79
Se	82	125	No Gas	5238.52	3.30
Tl	205	209	No Gas	354853.55	1.11
Pb	208	209	No Gas	254365.38	0.30
Th	232	209	No Gas	462635.32	0.62
U	238	209	No Gas	404771.61	0.43
Na	23	45	He	2323268.71	0.67
Mg	24	45	He	1249228.24	0.59
Al	27	45	He	55020.48	0.87
K	39	45	He	1503844.46	1.02
Ca	43	45	He	4123.26	1.68
Ti	47	45	He	4681.42	0.91
V	51	72	He	143664.93	1.26
Cr	52	72	He	167220.07	1.16
Mn	55	72	He	97060.84	1.51
Fe	56	72	He	1391706.39	2.14
Co	59	72	He	261332.50	1.48
Ni	60	72	He	69651.50	2.18
Cu	63	72	He	184552.64	1.79
Zn	66	72	He	34302.58	0.71
As	75	125	He	30923.83	0.35
Sr	88	103	He	127489.57	1.41
Mo	95	103	He	83475.88	1.07
Ag	107	103	He	251823.12	0.40
Cd	111	125	He	36623.33	1.24
Sn	118	103	He	85037.43	1.37
Sb	121	103	He	127035.32	0.58
Ba	137	103	He	40289.51	2.47
Se	78	125	HEHe	2338.69	0.27

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	454133.83	0.75	447603.21	101.46	60	120	
Te (No He)	125	No Gas	9700.10	1.24	9280.92666666667	104.52	60	120	
Bi (No He)	209	No Gas	292544.59	0.71	292178.27	100.13	60	120	
Sc	45	He	39876.55	1.35	38822.62	102.71	60	120	
Ge	72	He	29344.42	0.77	28341.3366666667	103.54	60	120	
Rh	103	He	441144.85	0.15	436512.6	101.06	60	120	
Te	125	He	2631.38	3.00	2528.02333333333	104.09	60	120	
Te (HE He)	125	HEHe	4351.02	0.65	4093.94	106.28	60	120	

Calibration Standard Report

Sample Name	STD6 15D23552
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:13:47
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	No Gas	80056.32	0.53
B	11	45	No Gas	58283.30	1.68
Se	82	125	No Gas	10329.44	1.98
Tl	205	209	No Gas	721632.85	0.27
Pb	208	209	No Gas	512022.63	1.07
Th	232	209	No Gas	936071.42	0.66
U	238	209	No Gas	823125.04	0.29
Na	23	45	He	4595993.26	0.50
Mg	24	45	He	2523856.37	0.65
Al	27	45	He	111794.44	0.20
K	39	45	He	2934773.60	1.30
Ca	43	45	He	8105.60	0.99
Ti	47	45	He	9314.31	1.42
V	51	72	He	287896.85	0.43
Cr	52	72	He	335343.35	0.28
Mn	55	72	He	195240.71	0.24
Fe	56	72	He	2776744.75	0.46
Co	59	72	He	521101.87	0.39
Ni	60	72	He	141123.38	1.14
Cu	63	72	He	372928.51	1.12
Zn	66	72	He	69213.74	0.88
As	75	125	He	62396.50	0.70
Sr	88	103	He	260263.85	0.64
Mo	95	103	He	168926.66	0.44
Ag	107	103	He	490076.61	0.92
Cd	111	125	He	73758.90	0.58
Sn	118	103	He	171528.90	0.38
Sb	121	103	He	248508.35	0.30
Ba	137	103	He	81353.35	1.41
Se	78	125	HEHe	4697.77	0.94

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	462123.59	1.06	447603.21	103.24	60	120	
Te (No He)	125	No Gas	9550.01	1.03	9280.92666666667	102.9	60	120	
Bi (No He)	209	No Gas	292031.51	1.01	292178.27	99.95	60	120	
Sc	45	He	39934.41	0.75	38822.62	102.86	60	120	
Ge	72	He	30315.34	1.07	28341.3366666667	106.97	60	120	
Rh	103	He	446093.30	1.17	436512.6	102.19	60	120	
Te	125	He	2702.50	1.49	2528.02333333333	106.9	60	120	
Te (HE He)	125	HEHe	4258.66	1.66	4093.94	104.02	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 15D23558
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:16:15
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.103	1.15	41143.52	0.1	103.32	90	110	
B	11	45	No Gas	0.098	2.54	28523.91	0.1	98.21	90	110	
Se	82	125	No Gas	0.104	6.98	5381.33	0.1	104.44	90	110	
Tl	205	209	No Gas	0.099	1.03	366060.38	0.1	98.81	90	110	
Pb	208	209	No Gas	0.100	0.55	264016.83	0.1	100.17	90	110	
Th	232	209	No Gas	0.098	0.91	470938.30	0.1	97.91	90	110	
U	238	209	No Gas	0.100	0.39	424072.34	0.1	100.36	90	110	
Na	23	45	He	10.313	2.11	2382749.71	10	103.13	90	110	
Mg	24	45	He	10.309	0.73	1285030.42	10	103.09	90	110	
Al	27	45	He	10.087	0.74	555984.65	1	1008.75	90	110	ICV Main CR1 Failed
K	39	45	He	10.219	0.94	1518511.96	10	102.19	90	110	
Ca	43	45	He	9.962	1.66	4019.90	10	99.62	90	110	
Ti	47	45	He	0.101	2.69	4678.76	0.1	101.24	90	110	
V	51	72	He	0.101	0.60	145419.73	0.1	101.37	90	110	
Cr	52	72	He	0.101	1.11	169638.07	0.1	101.12	90	110	
Mn	55	72	He	0.101	0.92	98610.86	0.1	101.4	90	110	
Fe	56	72	He	9.982	0.83	13748562.71	1	998.23	90	110	ICV Main CR1 Failed
Co	59	72	He	0.103	1.29	267686.57	0.1	102.99	90	110	
Ni	60	72	He	0.103	2.03	72468.43	0.1	103.28	90	110	
Cu	63	72	He	0.104	1.57	192585.42	0.1	103.8	90	110	
Zn	66	72	He	0.101	1.32	35166.33	0.1	101.48	90	110	
As	75	125	He	0.102	3.95	31404.37	0.1	101.87	90	110	
Sr	88	103	He	0.102	0.57	131888.87	0.1	102.25	90	110	
Mo	95	103	He	0.101	0.43	84850.70	0.1	101.23	90	110	
Ag	107	103	He	0.105	0.35	256881.82	0.1	104.62	90	110	
Cd	111	125	He	0.105	3.44	38139.36	0.1	104.67	90	110	
Sn	118	103	He	0.102	0.91	86997.64	0.1	102.11	90	110	
Sb	121	103	He	0.109	1.22	135051.91	0.1	108.55	90	110	
Ba	137	103	He	0.102	1.85	41335.94	0.1	102.22	90	110	
Se	78	125	HEHe	0.101	2.01	2379.62	0.1	101.45	90	110	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	459996.22	1.00	447603.21	102.77	60	120	
Te (No He)	125	No Gas	9685.64	2.02	9280.92666666667	104.36	60	120	
Bi (No He)	209	No Gas	301163.99	0.25	292178.27	103.08	60	120	
Sc	45	He	39581.27	1.02	38822.62	101.95	60	120	
Ge	72	He	29985.71	0.34	28341.3366666667	105.8	60	120	
Rh	103	He	443257.36	0.66	436512.6	101.55	60	120	
Te	125	He	2668.05	4.33	2528.02333333333	105.54	60	120	
Te (HE He)	125	HEHe	4281.67	1.15	4093.94	104.59	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 15D23551
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:18:29
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	36.14	35.33	0.001	
B	11	45	No Gas	0.005	10.85	1713.45	0.02	
Se	82	125	No Gas	0.001	281.10	-194.47	0.001	
Tl	205	209	No Gas	0.000	9.45	576.69	0.001	
Pb	208	209	No Gas	0.000	18.93	326.68	0.001	
Th	232	209	No Gas	0.000	6.89	551.69	0.01	
U	238	209	No Gas	0.000	21.59	230.01	0.01	
Na	23	45	He	-0.009	N/A	73476.27	1	
Mg	24	45	He	0.002	31.41	540.03	1	
Al	27	45	He	0.002	42.87	203.33	0.1	
K	39	45	He	-0.009	N/A	67114.94	1	
Ca	43	45	He	-0.006	N/A	28.67	1	
Ti	47	45	He	0.000	115.24	8.00	0.01	
V	51	72	He	0.000	189.09	286.68	0.002	
Cr	52	72	He	0.000	N/A	1986.82	0.001	
Mn	55	72	He	0.000	139.18	180.00	0.002	
Fe	56	72	He	0.004	24.06	17938.10	0.1	
Co	59	72	He	0.000	188.81	110.00	0.001	
Ni	60	72	He	0.000	353.53	226.67	0.001	
Cu	63	72	He	0.000	150.30	210.01	0.002	
Zn	66	72	He	0.000	73.90	688.36	0.01	
As	75	125	He	0.000	40.27	56.67	0.001	
Sr	88	103	He	0.000	38.38	183.34	0.01	
Mo	95	103	He	0.000	9.03	42.22	0.002	
Ag	107	103	He	0.000	24.81	633.35	0.001	
Cd	111	125	He	0.000	41.32	15.00	0.001	
Sn	118	103	He	0.000	416.17	63.33	0.001	
Sb	121	103	He	0.000	3.66	726.70	0.001	
Ba	137	103	He	0.000	36.79	26.67	0.002	
Se	78	125	HEHe	0.000	55.30	2.67	0.001	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	449198.01	0.65	447603.21	100.36	60	120	
Te (No He)	125	No Gas	9491.07	0.56	9280.92666666667	102.26	60	120	
Bi (No He)	209	No Gas	304566.05	0.15	292178.27	104.24	60	120	
Sc	45	He	38363.62	1.41	38822.62	98.82	60	120	
Ge	72	He	28779.89	0.47	28341.3366666667	101.55	60	120	
Rh	103	He	441296.50	1.50	436512.6	101.1	60	120	
Te	125	He	2546.91	0.26	2528.02333333333	100.75	60	120	
Te (HE He)	125	HEHe	4208.98	1.09	4093.94	102.81	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 15D27686
File Name	011LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:20:46
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	452483.91	0.88	447603.21	101.09	60	120	
Te (No He)	125	No Gas	9782.38	2.00	9280.92666666667	105.4	60	120	
Bi (No He)	209	No Gas	299584.68	0.67	292178.27	102.53	60	120	
Sc	45	He	39300.53	1.22	38822.62	101.23	60	120	
Ge	72	He	29111.73	1.33	28341.3366666667	102.72	60	120	
Rh	103	He	445447.67	0.99	436512.6	102.05	60	120	
Te	125	He	2808.08	4.30	2528.02333333333	111.08	60	120	
Te (HE He)	125	HEHe	4311.01	2.30	4093.94	105.3	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	012ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:22:59
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	102.327	0.45	22065896.34	100	80	120	
Mg	24	45	He	99.014	1.58	11864723.57	100	80	120	
Al	27	45	He	99.874	1.18	5291684.09	100	80	120	
K	39	45	He	98.902	0.37	13542684.80	100	80	120	
Ca	43	45	He	99.510	1.15	38325.31	100	80	120	
Ti	47	45	He	2.044	0.42	90739.11	2	80	120	
Fe	56	72	He	101.326	1.87	131801281.37	100	80	120	
Mo	95	103	He	2.192	0.20	1717126.56	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	447338.50	1.77	447603.21	99.94	60	120	
Te (No He)	125	No Gas	9090.79	1.46	9280.92666666667	97.95	60	120	
Bi (No He)	209	No Gas	286940.84	1.60	292178.27	98.21	60	120	
Sc	45	He	38055.02	0.36	38822.62	98.02	60	120	
Ge	72	He	28346.85	1.36	28341.3366666667	100.02	60	120	
Rh	103	He	414280.16	0.84	436512.6	94.91	60	120	
Te	125	He	2460.23	2.83	2528.02333333333	97.32	60	120	
Te (HE He)	125	HEHe	4010.58	1.22	4093.94	97.96	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	013ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 07:25:11
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	1.05	7322.47	0.02	80	120	
B	11	45	No Gas	0.021	1.50	6194.66	0.02	80	120	
Se	82	125	No Gas	0.020	9.46	793.03	0.02	80	120	
Tl	205	209	No Gas	0.020	4.11	69184.71	0.02	80	120	
Pb	208	209	No Gas	0.020	1.52	50570.72	0.02	80	120	
U	238	209	No Gas	0.020	1.63	81589.91	0.02	80	120	
Na	23	45	He	99.211	1.31	20999834.27	100	80	120	
Mg	24	45	He	97.698	2.00	11488974.41	100	80	120	
Al	27	45	He	99.036	3.57	5148887.42	100	80	120	
K	39	45	He	97.453	2.45	13096364.39	100	80	120	
Ca	43	45	He	98.388	1.90	37191.06	100	80	120	
Ti	47	45	He	2.030	2.28	88426.69	2	80	120	
V	51	72	He	0.020	3.33	27344.05	0.02	80	120	
Cr	52	72	He	0.021	1.92	34900.34	0.02	80	120	
Mn	55	72	He	0.021	2.53	19186.33	0.02	80	120	
Fe	56	72	He	98.522	1.15	127555658.10	100	80	120	
Co	59	72	He	0.020	3.48	50063.57	0.02	80	120	
Ni	60	72	He	0.020	3.62	13643.29	0.02	80	120	
Cu	63	72	He	0.021	3.72	37228.54	0.02	80	120	
Zn	66	72	He	0.020	3.42	7090.13	0.02	80	120	
As	75	125	He	0.020	4.00	5984.08	0.02	80	120	
Sr	88	103	He	0.022	3.90	26518.42	0.02	80	120	
Mo	95	103	He	2.177	1.56	1699322.08	2	80	120	
Ag	107	103	He	0.021	1.82	47501.22	0.02	80	120	
Cd	111	125	He	0.021	3.14	7328.93	0.02	80	120	
Sn	118	103	He	0.021	3.21	17017.37	0.02	80	120	
Sb	121	103	He	0.023	3.96	26325.34	0.02	80	120	
Ba	137	103	He	0.022	0.39	8279.29	0.02	80	120	
Se	78	125	HEHe	0.021	4.14	461.34	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	437646.35	0.58	447603.21	97.78	60	120	
Te (No He)	125	No Gas	9238.68	1.03	9280.92666666667	99.54	60	120	
Bi (No He)	209	No Gas	283843.90	1.41	292178.27	97.15	60	120	
Sc	45	He	37354.32	1.48	38822.62	96.22	60	120	
Ge	72	He	28213.27	1.91	28341.3366666667	99.55	60	120	
Rh	103	He	412901.41	1.71	436512.6	94.59	60	120	
Te	125	He	2592.48	4.20	2528.02333333333	102.55	60	120	
Te (HE He)	125	HEHe	4050.27	1.42	4093.94	98.93	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 09:42:59
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.096	2.08	35293.42	0.1	96.47	90	110	
B	11	45	No Gas	0.090	1.88	24054.43	0.1	90	90	110	
Se	82	125	No Gas	0.102	0.77	4980.50	0.1	102	90	110	
Tl	205	209	No Gas	0.098	2.16	331137.99	0.1	97.65	90	110	
Pb	208	209	No Gas	0.099	1.16	238570.39	0.1	98.88	90	110	
Th	232	209	No Gas	0.000	29.27	211.67	0.1	0.05	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	2.85	380928.26	0.1	98.5	90	110	
Na	23	45	He	9.820	1.18	2125455.39	10	98.2	90	110	
Mg	24	45	He	9.699	2.36	1130280.61	10	96.99	90	110	
Al	27	45	He	0.968	1.97	49969.27	1	96.78	90	110	
K	39	45	He	9.847	2.20	1369557.01	10	98.47	90	110	
Ca	43	45	He	9.885	1.87	3726.48	10	98.85	90	110	
Ti	47	45	He	0.099	1.44	4281.63	0.1	99.07	90	110	
V	51	72	He	0.101	2.37	133689.42	0.1	100.91	90	110	
Cr	52	72	He	0.101	2.53	157073.06	0.1	101.42	90	110	
Mn	55	72	He	0.099	3.00	89069.26	0.1	99.18	90	110	
Fe	56	72	He	0.997	1.96	1278947.17	1	99.66	90	110	
Co	59	72	He	0.102	1.74	244072.81	0.1	101.68	90	110	
Ni	60	72	He	0.101	3.18	65320.81	0.1	100.82	90	110	
Cu	63	72	He	0.103	2.98	176006.45	0.1	102.73	90	110	
Zn	66	72	He	0.100	5.28	31915.43	0.1	99.71	90	110	
As	75	125	He	0.103	2.73	28952.07	0.1	103.13	90	110	
Sr	88	103	He	0.098	0.35	119547.61	0.1	97.83	90	110	
Mo	95	103	He	0.099	0.96	78405.00	0.1	98.73	90	110	
Ag	107	103	He	0.101	1.00	234831.56	0.1	100.95	90	110	
Cd	111	125	He	0.103	3.16	34288.44	0.1	103.36	90	110	
Sn	118	103	He	0.097	1.74	78346.74	0.1	97.07	90	110	
Sb	121	103	He	0.098	0.44	115668.75	0.1	98.12	90	110	
Ba	137	103	He	0.098	0.40	37544.97	0.1	98.01	90	110	
Se	78	125	HEHe	0.099	3.38	2216.67	0.1	98.59	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	422599.98	0.66	451169.133333333	93.67	60	120	
Te (No He)	125	No Gas	9196.41	0.54	9232.01333333333	99.61	60	120	
Bi (No He)	209	No Gas	275720.20	1.55	290522.483333333	94.9	60	120	
Sc	45	He	37010.14	1.98	38678.8733333333	95.69	60	120	
Ge	72	He	27701.23	2.89	28625.18	96.77	60	120	
Rh	103	He	419926.80	0.56	431612.456666667	97.29	60	120	
Te	125	He	2428.01	2.54	2508.02	96.81	60	120	
Te (HE He)	125	HEHe	4105.61	2.36	4182.3	98.17	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 09:46:35
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	978.58	10.00	0.001	
B	11	45	No Gas	0.002	5.57	771.69	0.02	
Se	82	125	No Gas	0.001	348.55	-186.72	0.001	
Tl	205	209	No Gas	0.000	20.75	173.34	0.001	
Pb	208	209	No Gas	0.000	11.85	1060.06	0.001	
Th	232	209	No Gas	0.000	55.84	30.00	0.01	
U	238	209	No Gas	0.000	28.44	66.67	0.01	
Na	23	45	He	-0.028	N/A	66014.58	1	
Mg	24	45	He	-0.001	N/A	386.68	1	
Al	27	45	He	0.000	N/A	116.67	0.1	
K	39	45	He	-0.037	N/A	56891.28	1	
Ca	43	45	He	-0.012	N/A	18.00	1	
Ti	47	45	He	0.000	N/A	5.00	0.01	
V	51	72	He	0.000	N/A	240.00	0.002	
Cr	52	72	He	0.000	89.57	2043.50	0.001	
Mn	55	72	He	0.000	68.38	200.01	0.002	
Fe	56	72	He	-0.002	N/A	11091.08	0.1	
Co	59	72	He	0.000	116.34	73.33	0.001	
Ni	60	72	He	0.000	62.81	270.01	0.001	
Cu	63	72	He	0.000	128.41	160.00	0.002	
Zn	66	72	He	-0.002	N/A	101.67	0.01	
As	75	125	He	0.000	85.07	44.00	0.001	
Sr	88	103	He	0.000	N/A	113.33	0.01	
Mo	95	103	He	0.000	116.76	17.78	0.002	
Ag	107	103	He	0.000	4.08	158.89	0.001	
Cd	111	125	He	0.000	23.71	5.00	0.001	
Sn	118	103	He	0.000	126.85	83.33	0.001	
Sb	121	103	He	0.000	39.49	380.01	0.001	
Ba	137	103	He	0.000	291.57	16.67	0.002	
Se	78	125	HEHe	0.000	183.91	2.17	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	411648.13	0.84	451169.133333333	91.24	60	120	
Te (No He)	125	No Gas	8870.66	2.90	9232.01333333333	96.09	60	120	
Bi (No He)	209	No Gas	272594.63	0.34	290522.483333333	93.83	60	120	
Sc	45	He	35784.84	0.66	38678.8733333333	92.52	60	120	
Ge	72	He	26821.74	0.68	28625.18	93.7	60	120	
Rh	103	He	415683.89	0.53	431612.456666667	96.31	60	120	
Te	125	He	2439.12	5.62	2508.02	97.25	60	120	
Te (HE He)	125	HEHe	4024.26	1.55	4182.3	96.22	60	120	

Sample Report

Sample Name	L766887-01 WG791805
File Name	045SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:32:30
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	35.22	50.00	5	
B	11	45	No Gas	0.285	1.31	57781.22	5	
Se	82	125	No Gas	0.008	19.66	88.81	5	
Tl	205	209	No Gas	0.000	20.49	676.70	5	
Pb	208	209	No Gas	0.000	9.92	723.37	5	
Th	232	209	No Gas	0.000	1.31	75.00	5	
U	238	209	No Gas	0.024	0.98	60049.53	5	
Na	23	45	He	5090.000	13.90	837221214.19	90	>LDR
Mg	24	45	He	1001.109	11.53	92037358.63	90	>LDR
Al	27	45	He	0.026	24.68	1168.39	90	
K	39	45	He	11.921	11.04	1304773.83	90	
Ca	43	45	He	1129.041	11.70	333796.63	90	>LDR
Ti	47	45	He	0.001	14.67	29.33	5	
V	51	72	He	0.008	5.70	10742.39	5	
Cr	52	72	He	0.000	58.33	2618.59	5	
Mn	55	72	He	0.561	6.90	481552.79	5	
Fe	56	72	He	0.060	8.11	87825.56	90	
Co	59	72	He	0.004	7.61	8385.92	5	
Ni	60	72	He	0.008	9.10	5174.34	5	
Cu	63	72	He	0.001	11.46	2236.88	5	
Zn	66	72	He	0.006	6.71	2380.22	5	
As	75	125	He	0.004	9.71	748.69	5	
Sr	88	103	He	24.490	9.97	19200483.88	5	>LDR
Mo	95	103	He	0.019	13.76	9482.10	5	
Ag	107	103	He	0.000	7.45	253.34	1	
Cd	111	125	He	0.000	20.55	79.33	5	
Sn	118	103	He	0.000	20.96	260.01	2	
Sb	121	103	He	0.002	8.03	1366.76	1	
Ba	137	103	He	0.041	10.82	10127.26	2	
Se	78	125	HEHe	0.012	1.89	184.83	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	359302.87	1.48	451169.133333333	79.64	60	120	
Te (No He)	125	No Gas	6704.98	0.95	9232.01333333333	72.63	60	120	
Bi (No He)	209	No Gas	197839.03	1.24	290522.483333333	68.1	60	120	
Sc	45	He	32791.18	13.73	38678.8733333333	84.78	60	120	
Ge	72	He	29558.62	8.07	28625.18	103.26	60	120	
Rh	103	He	302001.47	11.64	431612.456666667	69.97	60	120	
Te	125	He	1780.13	9.11	2508.02	70.98	60	120	
Te (HE He)	125	HEHe	3081.01	1.07	4182.3	73.67	60	120	

Sample Report

Sample Name	SD L766887-01 WG791805
File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:34:46
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	41.00	24.67	5	
B	11	45	No Gas	0.063	0.85	14647.25	5	
Se	82	125	No Gas	-0.004	N/A	-339.74	5	
Tl	205	209	No Gas	0.000	15.63	166.67	5	
Pb	208	209	No Gas	0.000	23.57	200.01	5	
Th	232	209	No Gas	0.000	20.48	30.00	5	
U	238	209	No Gas	0.005	1.50	14388.23	5	
Na	23	45	He	1054.667	0.78	191735797.14	90	>LDR
Mg	24	45	He	204.326	1.71	20708203.86	90	>LDR
Al	27	45	He	0.005	13.96	356.68	90	
K	39	45	He	2.409	2.74	339572.95	90	
Ca	43	45	He	228.668	1.66	74562.63	90	>LDR
Ti	47	45	He	0.000	14.40	10.67	5	
V	51	72	He	0.002	1.70	2615.26	5	
Cr	52	72	He	0.000	102.86	2173.52	5	
Mn	55	72	He	0.145	0.88	111123.87	5	
Fe	56	72	He	0.037	3.68	52829.84	90	
Co	59	72	He	0.001	3.76	2043.51	5	
Ni	60	72	He	0.004	1.94	2440.25	5	
Cu	63	72	He	0.000	6.64	740.03	5	
Zn	66	72	He	0.000	63.33	698.36	5	
As	75	125	He	0.001	7.47	201.67	5	
Sr	88	103	He	4.719	1.32	4506584.10	5	
Mo	95	103	He	0.004	2.44	2221.30	5	
Ag	107	103	He	0.000	34.08	83.33	1	
Cd	111	125	He	0.000	33.27	18.00	5	
Sn	118	103	He	0.000	22.50	90.00	2	
Sb	121	103	He	0.000	11.63	550.02	1	
Ba	137	103	He	0.008	0.98	2363.58	2	
Se	78	125	HEHe	0.002	3.64	44.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	404588.39	0.99	451169.133333333	89.68	60	120	
Te (No He)	125	No Gas	7739.97	1.67	9232.01333333333	83.84	60	120	
Bi (No He)	209	No Gas	224991.62	0.75	290522.483333333	77.44	60	120	
Sc	45	He	35773.70	1.72	38678.8733333333	92.49	60	120	
Ge	72	He	26326.38	1.06	28625.18	91.97	60	120	
Rh	103	He	364993.42	1.22	431612.456666667	84.57	60	120	
Te	125	He	2206.85	2.08	2508.02	87.99	60	120	
Te (HE He)	125	HEHe	3558.13	2.49	4182.3	85.08	60	120	

Sample Report

Sample Name	MS L766887-01 WG791805
File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:37:02
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.045	1.24	12724.08	5	
B	11	45	No Gas	0.329	0.54	66719.93	5	
Se	82	125	No Gas	0.059	6.94	1815.32	5	
Tl	205	209	No Gas	0.051	0.75	109713.62	5	
Pb	208	209	No Gas	0.052	2.50	78725.40	5	
Th	232	209	No Gas	0.053	1.16	146361.27	5	
U	238	209	No Gas	0.078	1.75	189661.01	5	
Na	23	45	He	4572.706	2.92	806569801.32	90	>LDR
Mg	24	45	He	929.127	2.05	91415361.97	90	>LDR
Al	27	45	He	5.062	1.72	220302.93	90	
K	39	45	He	16.309	1.63	1886826.01	90	
Ca	43	45	He	1051.764	0.65	332927.79	90	>LDR
Ti	47	45	He	0.049	2.14	1781.44	5	
V	51	72	He	0.049	2.16	65937.11	5	
Cr	52	72	He	0.039	1.69	62190.83	5	
Mn	55	72	He	0.555	1.16	505794.21	5	
Fe	56	72	He	3.817	1.03	4939252.74	90	
Co	59	72	He	0.041	0.92	99917.10	5	
Ni	60	72	He	0.043	2.66	28695.49	5	
Cu	63	72	He	0.039	1.60	67953.37	5	
Zn	66	72	He	0.039	4.07	13012.64	5	
As	75	125	He	0.060	6.05	12124.94	5	
Sr	88	103	He	22.240	2.29	19130206.80	5	>LDR
Mo	95	103	He	0.071	1.10	39809.19	5	
Ag	107	103	He	0.050	0.95	81433.59	1	
Cd	111	125	He	0.050	5.45	11948.10	5	
Sn	118	103	He	0.050	1.92	28349.26	2	
Sb	121	103	He	0.056	1.71	46427.74	1	
Ba	137	103	He	0.089	3.05	24114.65	2	
Se	78	125	HEHe	0.066	1.93	1052.87	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	360385.76	1.96	451169.133333333	79.88	60	120	
Te (No He)	125	No Gas	6713.89	1.52	9232.01333333333	72.72	60	120	
Bi (No He)	209	No Gas	192461.39	1.57	290522.483333333	66.25	60	120	
Sc	45	He	34736.78	3.09	38678.8733333333	89.81	60	120	
Ge	72	He	31268.51	2.85	28625.18	109.23	60	120	
Rh	103	He	328794.98	0.95	431612.456666667	76.18	60	120	
Te	125	He	1940.15	6.40	2508.02	77.36	60	120	
Te (HE He)	125	HEHe	3217.71	2.02	4182.3	76.94	60	120	

Sample Report

Sample Name	MSD L766887-01 WG791805
File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:39:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.044	1.69	12462.53	5	
B	11	45	No Gas	0.327	1.17	66617.55	5	
Se	82	125	No Gas	0.053	8.98	1594.33	5	
Tl	205	209	No Gas	0.051	0.41	109408.25	5	
Pb	208	209	No Gas	0.051	2.37	77967.24	5	
Th	232	209	No Gas	0.052	1.24	144840.93	5	
U	238	209	No Gas	0.078	0.98	189325.61	5	
Na	23	45	He	4722.182	0.66	789573401.57	90	>LDR
Mg	24	45	He	955.175	0.79	89073315.34	90	>LDR
Al	27	45	He	5.134	0.98	211757.02	90	
K	39	45	He	16.866	1.13	1847202.47	90	
Ca	43	45	He	1088.419	0.87	326444.34	90	>LDR
Ti	47	45	He	0.050	1.90	1743.77	5	
V	51	72	He	0.049	2.20	63072.81	5	
Cr	52	72	He	0.040	2.95	60420.12	5	
Mn	55	72	He	0.575	2.37	494603.40	5	
Fe	56	72	He	3.947	2.95	4822610.45	90	
Co	59	72	He	0.042	3.86	96758.68	5	
Ni	60	72	He	0.043	5.39	27105.73	5	
Cu	63	72	He	0.039	3.09	64751.55	5	
Zn	66	72	He	0.039	3.88	12485.47	5	
As	75	125	He	0.061	0.09	11603.35	5	
Sr	88	103	He	23.126	2.32	18729581.39	5	>LDR
Mo	95	103	He	0.072	1.36	37811.73	5	
Ag	107	103	He	0.051	1.47	78588.75	1	
Cd	111	125	He	0.051	2.27	11449.68	5	
Sn	118	103	He	0.052	1.74	27778.11	2	
Sb	121	103	He	0.057	2.72	44300.98	1	
Ba	137	103	He	0.091	2.27	23223.30	2	
Se	78	125	HEHe	0.067	0.37	989.53	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	361355.35	0.90	451169.133333333	80.09	60	120	
Te (No He)	125	No Gas	6596.04	3.41	9232.01333333333	71.45	60	120	
Bi (No He)	209	No Gas	192622.42	0.87	290522.483333333	66.3	60	120	
Sc	45	He	32910.31	0.44	38678.8733333333	85.09	60	120	
Ge	72	He	29544.84	3.06	28625.18	103.21	60	120	
Rh	103	He	309587.41	0.92	431612.456666667	71.73	60	120	
Te	125	He	1826.80	0.97	2508.02	72.84	60	120	
Te (HE He)	125	HEHe	3014.67	0.80	4182.3	72.08	60	120	

Sample Report

Sample Name	L767115-07 WG791805
File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:44:34
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.000	96.05	16.67	5	
B	11	45	No Gas	0.488	0.69	90218.59	5	
Se	82	125	No Gas	-0.011	N/A	-467.53	5	
Tl	205	209	No Gas	0.000	26.27	303.35	5	
Pb	208	209	No Gas	0.000	13.36	446.68	5	
Th	232	209	No Gas	0.000	17.31	341.68	5	
U	238	209	No Gas	0.058	0.62	135519.24	5	
Na	23	45	He	3877.669	1.27	575667378.09	90	>LDR
Mg	24	45	He	898.274	0.96	74375575.56	90	>LDR
Al	27	45	He	0.140	1.75	5229.29	90	
K	39	45	He	15.473	0.67	1508798.68	90	
Ca	43	45	He	1009.446	0.15	268821.22	90	>LDR
Ti	47	45	He	0.003	5.73	104.00	5	
V	51	72	He	0.008	4.59	9441.46	5	
Cr	52	72	He	0.001	6.28	2948.66	5	
Mn	55	72	He	0.510	2.62	395648.30	5	
Fe	56	72	He	0.128	3.31	153897.69	90	
Co	59	72	He	0.003	6.23	5787.93	5	
Ni	60	72	He	0.007	13.61	4340.74	5	
Cu	63	72	He	0.001	8.01	2173.54	5	
Zn	66	72	He	0.001	24.70	960.04	5	
As	75	125	He	0.003	4.49	557.34	5	
Sr	88	103	He	22.071	0.72	16636296.00	5	>LDR
Mo	95	103	He	0.040	1.40	19467.93	5	
Ag	107	103	He	0.000	52.46	93.33	1	
Cd	111	125	He	0.000	18.09	40.67	5	
Sn	118	103	He	0.000	45.57	253.34	2	
Sb	121	103	He	0.002	9.54	1870.16	1	
Ba	137	103	He	0.060	3.65	14084.11	2	
Se	78	125	HEHe	0.008	5.43	102.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	328306.16	0.37	451169.133333333	72.77	60	120	
Te (No He)	125	No Gas	6023.56	2.15	9232.01333333333	65.25	60	120	
Bi (No He)	209	No Gas	183474.26	0.98	290522.483333333	63.15	60	120	
Sc	45	He	29220.31	0.79	38678.8733333333	75.55	60	120	
Ge	72	He	26622.48	2.05	28625.18	93	60	120	
Rh	103	He	288114.96	2.39	431612.456666667	66.75	60	120	
Te	125	He	1665.67	5.27	2508.02	66.41	60	120	
Te (HE He)	125	HEHe	2696.93	2.76	4182.3	64.48	60	120	

Sample Report

Sample Name	MS L767115-07 WG791805
File Name	050SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:46:51
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.047	0.85	10809.25	5	
B	11	45	No Gas	0.525	0.91	87745.82	5	
Se	82	125	No Gas	0.037	9.50	943.22	5	
Tl	205	209	No Gas	0.054	0.88	99648.77	5	
Pb	208	209	No Gas	0.054	2.75	70334.74	5	
Th	232	209	No Gas	0.055	0.99	130859.98	5	
U	238	209	No Gas	0.112	1.42	235753.90	5	
Na	23	45	He	3599.942	0.58	539620605.29	90	>LDR
Mg	24	45	He	844.825	0.94	70618877.28	90	>LDR
Al	27	45	He	5.167	0.69	191095.14	90	
K	39	45	He	19.757	1.28	1930848.25	90	
Ca	43	45	He	982.306	0.20	264107.30	90	>LDR
Ti	47	45	He	0.052	1.79	1629.76	5	
V	51	72	He	0.052	1.73	56325.37	5	
Cr	52	72	He	0.044	2.62	56501.11	5	
Mn	55	72	He	0.550	2.02	404979.84	5	
Fe	56	72	He	4.269	2.69	4462985.98	90	
Co	59	72	He	0.045	3.71	89589.76	5	
Ni	60	72	He	0.048	4.00	25719.81	5	
Cu	63	72	He	0.042	4.60	59676.83	5	
Zn	66	72	He	0.039	4.73	10580.62	5	
As	75	125	He	0.063	5.48	10362.40	5	
Sr	88	103	He	21.446	1.42	15800327.68	5	>LDR
Mo	95	103	He	0.094	1.11	45134.00	5	
Ag	107	103	He	0.052	1.08	73273.73	1	
Cd	111	125	He	0.055	5.33	10634.04	5	
Sn	118	103	He	0.052	1.29	25520.46	2	
Sb	121	103	He	0.056	1.98	40061.41	1	
Ba	137	103	He	0.108	2.73	24862.73	2	
Se	78	125	HEHe	0.065	3.96	902.86	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	297196.00	1.06	451169.133333333	65.87	60	120	
Te (No He)	125	No Gas	5823.48	1.00	9232.01333333333	63.08	60	120	
Bi (No He)	209	No Gas	166440.33	0.27	290522.483333333	57.29	60	120	ISTD Failed
Sc	45	He	29501.95	1.98	38678.8733333333	76.27	60	120	
Ge	72	He	25277.86	3.45	28625.18	88.31	60	120	
Rh	103	He	281597.58	1.11	431612.456666667	65.24	60	120	
Te	125	He	1576.77	5.40	2508.02	62.87	60	120	
Te (HE He)	125	HEHe	2798.28	2.68	4182.3	66.91	60	120	

Sample Report

Sample Name	MSD L767115-07 WG791805
File Name	051SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:49:08
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	No Gas	0.046	0.49	11503.76	5	
B	11	45	No Gas	0.525	1.40	93874.58	5	
Se	82	125	No Gas	0.037	6.40	1017.63	5	
Tl	205	209	No Gas	0.054	0.66	105342.32	5	
Pb	208	209	No Gas	0.054	0.94	75811.41	5	
Th	232	209	No Gas	0.056	0.48	141864.01	5	
U	238	209	No Gas	0.113	0.74	252381.84	5	
Na	23	45	He	3656.902	1.42	563828178.26	90	>LDR
Mg	24	45	He	862.058	1.43	74126090.56	90	>LDR
Al	27	45	He	5.254	1.09	199833.04	90	
K	39	45	He	20.212	1.46	2030925.23	90	
Ca	43	45	He	997.801	1.72	275950.77	90	>LDR
Ti	47	45	He	0.055	1.75	1767.11	5	
V	51	72	He	0.052	1.32	59849.16	5	
Cr	52	72	He	0.042	3.03	58589.29	5	
Mn	55	72	He	0.538	1.88	421345.98	5	
Fe	56	72	He	4.198	2.54	4668684.30	90	
Co	59	72	He	0.044	1.75	92753.03	5	
Ni	60	72	He	0.048	2.29	27242.58	5	
Cu	63	72	He	0.042	2.74	62760.12	5	
Zn	66	72	He	0.040	1.04	11514.67	5	
As	75	125	He	0.066	2.15	10980.19	5	
Sr	88	103	He	21.401	1.75	16468293.50	5	>LDR
Mo	95	103	He	0.094	1.56	47014.55	5	
Ag	107	103	He	0.052	2.08	76151.04	1	
Cd	111	125	He	0.056	2.92	11104.40	5	
Sn	118	103	He	0.052	3.11	26709.28	2	
Sb	121	103	He	0.058	0.99	42919.84	1	
Ba	137	103	He	0.110	2.69	26585.96	2	
Se	78	125	HEHe	0.064	1.77	898.86	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	318039.72	1.39	451169.133333333	70.49	60	120	
Te (No He)	125	No Gas	6261.45	4.38	9232.01333333333	67.82	60	120	
Bi (No He)	209	No Gas	177147.67	1.03	290522.483333333	60.98	60	120	
Sc	45	He	30348.19	0.91	38678.8733333333	78.46	60	120	
Ge	72	He	26882.99	1.58	28625.18	93.91	60	120	
Rh	103	He	294151.90	0.78	431612.456666667	68.15	60	120	
Te	125	He	1605.66	2.28	2508.02	64.02	60	120	
Te (HE He)	125	HEHe	2842.96	0.40	4182.3	67.98	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	052_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:51:23
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.096	2.21	29176.36	0.1	96.16	90	110	
B	11	45	No Gas	0.094	3.15	20771.20	0.1	93.75	90	110	
Se	82	125	No Gas	0.089	3.79	3619.20	0.1	89.08	90	110	CCV Main CR1 Failed
Tl	205	209	No Gas	0.099	0.80	272356.80	0.1	99.35	90	110	
Pb	208	209	No Gas	0.101	0.76	196576.47	0.1	100.79	90	110	
Th	232	209	No Gas	0.000	17.74	168.33	0.1	0.05	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	1.64	305708.46	0.1	97.79	90	110	
Na	23	45	He	12.901	0.60	2424753.92	10	129.01	90	110	CCV Main CR1 Failed
Mg	24	45	He	9.877	1.30	1008029.57	10	98.77	90	110	
Al	27	45	He	0.971	1.12	43923.58	1	97.14	90	110	
K	39	45	He	9.834	1.66	1197955.79	10	98.34	90	110	
Ca	43	45	He	9.765	2.47	3224.36	10	97.65	90	110	
Ti	47	45	He	0.097	1.71	3683.13	0.1	97.32	90	110	
V	51	72	He	0.103	1.61	119760.57	0.1	102.88	90	110	
Cr	52	72	He	0.103	2.32	139858.66	0.1	102.78	90	110	
Mn	55	72	He	0.100	1.76	79142.14	0.1	100.28	90	110	
Fe	56	72	He	1.004	1.57	1132442.64	1	100.45	90	110	
Co	59	72	He	0.103	1.15	217662.71	0.1	103.2	90	110	
Ni	60	72	He	0.104	1.29	59221.33	0.1	104.01	90	110	
Cu	63	72	He	0.106	0.52	159155.39	0.1	105.71	90	110	
Zn	66	72	He	0.100	2.64	28137.54	0.1	99.99	90	110	
As	75	125	He	0.109	3.66	25117.39	0.1	108.72	90	110	
Sr	88	103	He	0.099	0.48	105372.89	0.1	99.23	90	110	
Mo	95	103	He	0.100	1.52	68679.26	0.1	99.52	90	110	
Ag	107	103	He	0.102	1.05	205452.37	0.1	101.64	90	110	
Cd	111	125	He	0.108	3.90	29482.25	0.1	107.98	90	110	
Sn	118	103	He	0.097	0.65	67939.23	0.1	96.86	90	110	
Sb	121	103	He	0.096	0.79	98363.21	0.1	96.01	90	110	
Ba	137	103	He	0.095	2.70	31780.38	0.1	95.46	90	110	
Se	78	125	HEHe	0.106	2.74	2048.40	0.1	105.89	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	350519.63	1.52	451169.133333333	77.69	60	120	
Te (No He)	125	No Gas	7706.61	2.36	9232.01333333333	83.48	60	120	
Bi (No He)	209	No Gas	222850.99	1.61	290522.483333333	76.71	60	120	
Sc	45	He	32404.84	0.31	38678.8733333333	83.78	60	120	
Ge	72	He	24334.03	1.00	28625.18	85.01	60	120	
Rh	103	He	364923.69	0.70	431612.456666667	84.55	60	120	
Te	125	He	1999.05	3.50	2508.02	79.71	60	120	
Te (HE He)	125	HEHe	3532.79	2.78	4182.3	84.47	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 15D23552
File Name	053_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 10:59:49
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.094	0.21	31923.23	0.1	93.92	90	110	
B	11	45	No Gas	0.086	1.19	21483.83	0.1	86.47	90	110	CCV Main CR1 Failed
Se	82	125	No Gas	0.096	7.77	4299.90	0.1	95.74	90	110	
Tl	205	209	No Gas	0.099	1.34	314675.94	0.1	98.88	90	110	
Pb	208	209	No Gas	0.100	0.69	225682.55	0.1	99.68	90	110	
Th	232	209	No Gas	0.000	16.70	53.33	0.1	0.01	90	110	CCV Main CR1 Failed
U	238	209	No Gas	0.098	1.61	353998.69	0.1	97.53	90	110	
Na	23	45	He	10.985	2.13	2295013.98	10	109.85	90	110	
Mg	24	45	He	9.701	1.06	1095535.55	10	97.01	90	110	
Al	27	45	He	0.969	2.19	48467.61	1	96.88	90	110	
K	39	45	He	9.680	2.15	1305706.99	10	96.8	90	110	
Ca	43	45	He	10.186	0.21	3720.48	10	101.86	90	110	
Ti	47	45	He	0.098	1.05	4118.25	0.1	98.34	90	110	
V	51	72	He	0.101	1.24	129253.08	0.1	100.98	90	110	
Cr	52	72	He	0.102	1.27	152485.49	0.1	101.9	90	110	
Mn	55	72	He	0.101	3.35	87741.51	0.1	101.13	90	110	
Fe	56	72	He	1.012	1.16	1254590.19	1	101.22	90	110	
Co	59	72	He	0.103	1.71	239165.06	0.1	103.14	90	110	
Ni	60	72	He	0.102	2.10	63951.52	0.1	102.15	90	110	
Cu	63	72	He	0.104	0.62	171957.43	0.1	103.87	90	110	
Zn	66	72	He	0.099	1.88	30589.19	0.1	98.84	90	110	
As	75	125	He	0.103	3.17	27542.65	0.1	102.79	90	110	
Sr	88	103	He	0.097	1.35	114190.85	0.1	97.31	90	110	
Mo	95	103	He	0.099	1.18	75452.52	0.1	98.95	90	110	
Ag	107	103	He	0.101	0.58	224523.19	0.1	100.52	90	110	
Cd	111	125	He	0.103	3.18	32769.84	0.1	103.48	90	110	
Sn	118	103	He	0.097	1.40	75089.35	0.1	96.89	90	110	
Sb	121	103	He	0.097	2.56	110107.68	0.1	97.28	90	110	
Ba	137	103	He	0.095	2.89	34894.56	0.1	94.87	90	110	
Se	78	125	HEHe	0.104	0.01	2209.67	0.1	103.64	90	110	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	392586.74	0.55	451169.133333333	87.02	60	120	
Te (No He)	125	No Gas	8491.55	1.87	9232.01333333333	91.98	60	120	
Bi (No He)	209	No Gas	258707.47	1.02	290522.483333333	89.05	60	120	
Sc	45	He	35855.06	0.48	38678.8733333333	92.7	60	120	
Ge	72	He	26756.11	1.55	28625.18	93.47	60	120	
Rh	103	He	403217.66	0.37	431612.456666667	93.42	60	120	
Te	125	He	2317.99	3.17	2508.02	92.42	60	120	
Te (HE He)	125	HEHe	3891.88	0.34	4182.3	93.06	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 15D23551
File Name	054_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 11:02:22
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	No Gas	0.000	N/A	8.67	0.001	
B	11	45	No Gas	0.004	6.15	1191.72	0.02	
Se	82	125	No Gas	-0.003	N/A	-356.87	0.001	
Tl	205	209	No Gas	0.000	19.39	246.67	0.001	
Pb	208	209	No Gas	0.000	13.17	1050.06	0.001	
Th	232	209	No Gas	0.000	51.28	26.67	0.01	
U	238	209	No Gas	0.000	51.10	130.00	0.01	
Na	23	45	He	1.001	0.72	269556.88	1	CCB Main CR1 Failed
Mg	24	45	He	0.012	6.37	1813.53	1	
Al	27	45	He	-0.001	N/A	91.67	0.1	
K	39	45	He	-0.026	N/A	57454.09	1	
Ca	43	45	He	0.002	979.21	22.67	1	
Ti	47	45	He	0.000	N/A	2.67	0.01	
V	51	72	He	0.000	16.72	461.68	0.002	
Cr	52	72	He	0.000	6.27	2175.19	0.001	
Mn	55	72	He	0.000	122.30	200.00	0.002	
Fe	56	72	He	-0.001	N/A	11297.92	0.1	
Co	59	72	He	0.000	88.52	96.67	0.001	
Ni	60	72	He	0.000	38.77	270.01	0.001	
Cu	63	72	He	0.000	314.36	160.00	0.002	
Zn	66	72	He	-0.002	N/A	100.00	0.01	
As	75	125	He	0.000	81.25	47.67	0.001	
Sr	88	103	He	0.000	15.94	390.01	0.01	
Mo	95	103	He	0.000	32.53	22.22	0.002	
Ag	107	103	He	0.000	14.05	293.34	0.001	
Cd	111	125	He	0.000	9.58	8.33	0.001	
Sn	118	103	He	0.000	88.19	110.00	0.001	
Sb	121	103	He	0.000	14.10	466.68	0.001	
Ba	137	103	He	0.000	65.77	26.67	0.002	
Se	78	125	HEHe	0.000	247.66	2.50	0.001	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	391542.38	0.15	451169.133333333	86.78	60	120	
Te (No He)	125	No Gas	8884.00	0.41	9232.01333333333	96.23	60	120	
Bi (No He)	209	No Gas	266830.52	0.76	290522.483333333	91.85	60	120	
Sc	45	He	35226.88	1.26	38678.8733333333	91.08	60	120	
Ge	72	He	26562.40	1.69	28625.18	92.79	60	120	
Rh	103	He	405199.81	0.56	431612.456666667	93.88	60	120	
Te	125	He	2267.98	3.17	2508.02	90.43	60	120	
Te (HE He)	125	HEHe	3925.89	2.36	4182.3	93.87	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 15D27682
File Name	118ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 13:51:22
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	105.247	1.11	21201973.85	100	80	120	
Mg	24	45	He	103.452	0.55	11585590.66	100	80	120	
Al	27	45	He	102.204	0.67	5060202.95	100	80	120	
K	39	45	He	101.717	1.81	13027293.55	100	80	120	
Ca	43	45	He	101.768	2.93	36663.14	100	80	120	
Ti	47	45	He	2.099	1.26	87051.93	2	80	120	
Fe	56	72	He	103.504	0.74	129009144.75	100	80	120	
Mo	95	103	He	2.235	0.63	1701909.48	2	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	420747.81	0.54	451169.133333333	93.26	60	120	
Te (No He)	125	No Gas	9284.26	2.40	9232.01333333333	100.57	60	120	
Bi (No He)	209	No Gas	299152.63	1.76	290522.483333333	102.97	60	120	
Sc	45	He	35569.92	1.80	38678.8733333333	91.96	60	120	
Ge	72	He	27186.89	0.74	28625.18	94.98	60	120	
Rh	103	He	402650.62	1.09	431612.456666667	93.29	60	120	
Te	125	He	2376.89	4.46	2508.02	94.77	60	120	
Te (HE He)	125	HEHe	3795.52	3.43	4182.3	90.75	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 15D27683
File Name	119ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060315ICPMS8.b
Acq Time	2015-06-03 13:53:35
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Be	9	45	No Gas	0.019	2.56	6758.20	0.02	80	120	
B	11	45	No Gas	0.022	1.36	5749.48	0.02	80	120	
Se	82	125	No Gas	0.022	9.41	881.56	0.02	80	120	
Tl	205	209	No Gas	0.021	1.38	73987.17	0.02	80	120	
Pb	208	209	No Gas	0.021	1.08	54265.82	0.02	80	120	
U	238	209	No Gas	0.021	2.47	87274.26	0.02	80	120	
Na	23	45	He	102.589	0.80	19968680.95	100	80	120	
Mg	24	45	He	100.160	1.17	10836692.34	100	80	120	
Al	27	45	He	99.393	0.83	4754404.72	100	80	120	
K	39	45	He	98.630	0.99	12207336.07	100	80	120	
Ca	43	45	He	99.790	1.71	34742.47	100	80	120	
Ti	47	45	He	2.043	0.75	81862.79	2	80	120	
V	51	72	He	0.021	2.92	26490.90	0.02	80	120	
Cr	52	72	He	0.022	2.04	34098.35	0.02	80	120	
Mn	55	72	He	0.022	1.90	18465.39	0.02	80	120	
Fe	56	72	He	103.043	1.11	123630101.49	100	80	120	
Co	59	72	He	0.022	0.30	49461.51	0.02	80	120	
Ni	60	72	He	0.021	7.06	13176.20	0.02	80	120	
Cu	63	72	He	0.022	1.88	36072.13	0.02	80	120	
Zn	66	72	He	0.021	1.20	6848.34	0.02	80	120	
As	75	125	He	0.020	3.34	5709.47	0.02	80	120	
Sr	88	103	He	0.022	0.81	25055.79	0.02	80	120	
Mo	95	103	He	2.214	0.46	1654463.55	2	80	120	
Ag	107	103	He	0.021	0.93	46650.64	0.02	80	120	
Cd	111	125	He	0.022	3.93	7217.53	0.02	80	120	
Sn	118	103	He	0.021	4.24	15982.73	0.02	80	120	
Sb	121	103	He	0.023	2.96	25273.29	0.02	80	120	
Ba	137	103	He	0.021	2.48	7565.59	0.02	80	120	
Se	78	125	HEHe	0.020	3.50	415.26	0.02	80	120	

QC ISTD Table

Interference Check Solution AB (ICS-AB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	403378.08	1.42	451169.133333333	89.41	60	120	
Te (No He)	125	No Gas	9120.81	1.63	9232.01333333333	98.8	60	120	
Bi (No He)	209	No Gas	291055.53	0.86	290522.483333333	100.18	60	120	
Sc	45	He	34364.84	0.59	38678.8733333333	88.85	60	120	
Ge	72	He	26170.49	0.81	28625.18	91.42	60	120	
Rh	103	He	395224.33	1.13	431612.456666667	91.57	60	120	
Te	125	He	2410.23	2.93	2508.02	96.1	60	120	
Te (HE He)	125	HEHe	3729.84	2.15	4182.3	89.18	60	120	

Instrument ID: ICPMS8

Data Released By:	**No signature available.**	06/23/2015
	Nancy McLain	Date

Seq	Sample ID	Method	Work Group	Initial	Final	Aliquot Vol	Dil to Vol	Dilution	Matrix	Sample Date/Time	Analyst	Ref Sample	St
1	CALBLK			1.0	1.0			1		05/29/15 1105			
2	CALBLK			1.0	1.0			1		05/29/15 1108			
3	STD1			1.0	1.0			1		05/29/15 1110			
4	STD2			1.0	1.0			1		05/29/15 1113			
5	STD3			1.0	1.0			1		05/29/15 1115			
6	STD4			1.0	1.0			1		05/29/15 1118			
7	STD5			1.0	1.0			1		05/29/15 1120			
8	STD6			1.0	1.0			1		05/29/15 1123			
9	ICV			1.0	1.0			1		05/29/15 1125			
10	ICB			1.0	1.0			1		05/29/15 1127			
11	LLICV			1.0	1.0			1		05/29/15 1130			
12	ICSA			1.0	1.0			1		05/29/15 1132			
13	ICSAB			1.0	1.0			1		05/29/15 1134			
14	INSTBLANK			1.0	1.0					05/29/15 1155			
15	INSTBLANK			1.0	1.0					05/29/15 1158			
16	BLANK	200.8	WG791875	45.0	50			1	WW	05/29/15 1200			
17	LCS	200.8	WG791875	45.0	50			1	WW	05/29/15 1202			
18	LCSD	200.8	WG791875	45.0	50			1	WW	05/29/15 1204			
19	L766948-01	200.8	WG791875	45.0	50			1	WW	05/29/15 1207			AZ
20	MS	200.8	WG791875	45.0	50			1	WW	05/29/15 1209		L766948-01	
21	MSD	200.8	WG791875	45.0	50			1	WW	05/29/15 1211		L766948-01	
22	L766948-02	200.8	WG791875	45.0	50			1	WW	05/29/15 1213			AZ
23	L766948-03	200.8	WG791875	45.0	50			1	WW	05/29/15 1216			AZ
24	L766948-04	200.8	WG791875	45.0	50			1	WW	05/29/15 1218			AZ
25	CCV			1.0	1.0			1		05/29/15 1220			
26	CCB			1.0	1.0			1		05/29/15 1228			
27	L766948-05	200.8	WG791875	45.0	50			1	WW	05/29/15 1230			AZ
28	L766948-06	200.8	WG791875	45.0	50			1	WW	05/29/15 1236			AZ
29	CCV			1.0	1.0			1		05/29/15 1238			
30	CCB			1.0	1.0			1		05/29/15 1249			
31	BLANK	6020	WG791888	45.0	50			1	GW	05/29/15 1251			
32	LCS	6020	WG791888	45.0	50			1	GW	05/29/15 1253			
33	LCSD	6020	WG791888	45.0	50			1	GW	05/29/15 1256			
34	L766887-01	6020	WG791888	45.0	50			1	GW	05/29/15 1258			AZ
35	SD	6020	WG791888	45.0	50			5	GW	05/29/15 1300		L766887-01	
36	MS	6020	WG791888	45.0	50			1	GW	05/29/15 1302		L766887-01	
37	MSD	6020	WG791888	45.0	50			1	GW	05/29/15 1305		L766887-01	
38	L766887-02	6020	WG791888	45.0	50			1	GW	05/29/15 1307			AZ
39	L766887-03	6020	WG791888	45.0	50			1	GW	05/29/15 1309			AZ
40	L766887-04	6020	WG791888	45.0	50			1	GW	05/29/15 1311			AZ
41	CCV			1.0	1.0			1		05/29/15 1314			
42	CCV			1.0	1.0			1		05/29/15 1329			
43	CCB			1.0	1.0			1		05/29/15 1338			
44	L766918-01	6020	WG791888	45.0	50			1	GW	05/29/15 1341			AZ
45	L766918-03	6020	WG791888	45.0	50			1	GW	05/29/15 1343			AZ
46	L766918-05	6020	WG791888	45.0	50			1	GW	05/29/15 1346			AZ
47	L766918-07	6020	WG791888	45.0	50			1	GW	05/29/15 1348			AZ

Seq	Sample ID	Method	Work Group	Initial	Final	Aliquot Vol	Dil to Vol	Dilution	Matrix	Sample Date/Time	Analyst	Ref Sample	St
48	L767115-03	6020	WG791888	45.0	50			1	GW	05/29/15 1351			AZ
49	L767115-04	6020	WG791888	45.0	50			1	GW	05/29/15 1353			AZ
50	L767115-06	6020	WG791888	45.0	50			1	GW	05/29/15 1355			AZ
51	MS	6020	WG791888	45.0	50			1	GW	05/29/15 1357		L767115-06	
52	MSD	6020	WG791888	45.0	50			1	GW	05/29/15 1400		L767115-06	
53	L767115-08	6020	WG791888	45.0	50			1	GW	05/29/15 1402			AZ
54	CCV			1.0	1.0			1		05/29/15 1404			
55	CCB			1.0	1.0			1		05/29/15 1406			
56	ICSA			1.0	1.0			1		05/29/15 1409			
57	ICSAB			1.0	1.0			1		05/29/15 1411			
58	INSTBLK			1.0	1.0			1		05/29/15 1413			
59	INSTBLK			1.0	1.0			1		05/29/15 1415			
60	INSTBLK			1.0	1.0			1		05/29/15 1418			
61	INSTBLK			1.0	1.0			1		05/29/15 1420			

Internal Standard Summary

Data Run: 052915ICPMS8

Seq	Sample ID	Work Group	SCANDIUM (NO HE)	TELLURIUM (NO HE)
3	STD1		102	103
4	STD2		101	103
5	STD3		102	103
6	STD4		102	102
7	STD5		102	102
8	STD6		101	103
9	ICV		103	101
10	ICB		99	99
11	LLICV		101	100
12	ICSA		99	97
13	ICSAB		96	93
14	INSTBLANK			
15	INSTBLANK			
16	BLANK	WG791875	88	90
17	LCS	WG791875	90	95
18	LCSD	WG791875	90	95
19	L766948-01	WG791875	91	87
20	MS	WG791875	90	92
21	MSD	WG791875	91	93
22	L766948-02	WG791875	90	91
23	L766948-03	WG791875	94	96
24	L766948-04	WG791875	95	98
25	CCV		102	112
26	CCB		101	103
27	L766948-05	WG791875	96	94
28	L766948-06	WG791875	94	90
29	CCV		97	103
30	CCB		100	103
31	BLANK	WG791888	94	96
32	LCS	WG791888	95	102
33	LCSD	WG791888	95	99
34	L766887-01	WG791888	90	80

Internal Standard Summary

Data Run: 052915ICPMS8

Seq	Sample ID	Work Group	SCANDIUM (NO HE)	TELLURIUM (NO HE)
35	SD	WG791888	96	88
36	MS	WG791888	87	75
37	MSD	WG791888	86	72
38	L766887-02	WG791888	87	72
39	L766887-03	WG791888	89	89
40	L766887-04	WG791888	85	75
41	CCV		100	97
42	CCV		111	106
43	CCB		112	110
44	L766918-01	WG791888	100	88
45	L766918-03	WG791888	94	81
46	L766918-05	WG791888	98	89
47	L766918-07	WG791888	99	88
48	L767115-03	WG791888	103	90
49	L767115-04	WG791888	100	85
50	L767115-06	WG791888	96	80
51	MS	WG791888	96	81
52	MSD	WG791888	94	77
53	L767115-08	WG791888	96	81
54	CCV		108	102
55	CCB		105	101
56	ICSA		105	98
57	ICSAB		118	103
58	INSTBLK		128	115
59	INSTBLK		127	116
60	INSTBLK		120	112
61	INSTBLK		119	113
9	ICV-2		103	101
10	ICB-2		99	99
11	LLICV-2		101	100
29	CCV-2		97	103
30	CCB-2		100	103
12	ICSA-2		99	97
13	ICSAB-2		96	93

Internal Standard Summary

Data Run: 052915ICPMS8

Seq	Sample ID	Work Group	SCANDIUM (NO HE)	TELLURIUM (NO HE)
56	ICSA-2		105	98
57	ICSAB-2		118	103

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: CALBLK
Analysis Date: 05/29/15 11:08
Sequence: 2

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		301366.9			0.610					
N	TELLURIUM (NO HE)	125		6265.890			2.19					
N	BISMUTH (NO HE)	209		174092.8			0.200					
N	SCANDIUM	45		30491.83			0.960					
N	GERMANIUM	72		21201.24			0.390					
N	RHODIUM	103		291010.8			1.18					
N	TELLURIUM	125		1684.557			5.22					
N	TELLURIUM (HIGH HE)	125		2973.660			2.37					

Target Parameters

Exp	Parameter	Mass	Intensity
N	ALUMINUM	27	108.3333
N	ANTIMONY	121	3.333333
N	ARSENIC	75	43.50000
N	BARIUM	137	10.00000
N	BERYLLIUM	9	4.666667
N	BORON	11	238.3333
N	CADMIUM	111	1.333333
N	CALCIUM	43	26.66667
N	CHROMIUM	52	2391.890
N	COBALT	59	73.33333
N	COPPER	63	286.6767
N	IRON	56	11020.99
N	LEAD	208	43.33333
N	MAGNESIUM	24	693.3767
N	MANGANESE	55	260.0100
N	MOLYBDENUM	95	0.000000000
N	NICKEL	60	303.3433
N	POTASSIUM	39	67904.90
N	SELENIUM	82	-334.923
N	SELENIUM	78	2.416667
N	SILVER	107	33.33333
N	SODIUM	23	84655.96
N	STRONTIUM	88	83.33333
N	THALLIUM	205	26.66667

Sample ID: CALBLK
Analysis Date: 05/29/15 11:08
Sequence: 2

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity
N	THORIUM	232	11.66667
N	TIN	118	26.66667
N	TITANIUM	47	6.000000
N	URANIUM	238	16.66667
N	VANADIUM	51	315.0067
N	ZINC	66	313.3433

Sample ID: STD1
Analysis Date: 05/29/15 11:10 Standard ID: 15D23552
Sequence: 3

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		306570.6	0.540	102	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6451.533	2.33	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		176844.1	0.430	102	80	120	174092.8	
N	SCANDIUM	45		30968.36	1.15	102	80	120	30491.83	
N	GERMANIUM	72		21475.01	0.990	101	80	120	21201.24	
N	RHODIUM	103		294589.4	0.580	101	80	120	291010.8	
N	TELLURIUM	125		1795.683	1.24	107	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2987.660	1.92	100	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	618.3500	0.9991538	
N	ANTIMONY	121	830.0367	0.9990225	
N	ARSENIC	75	306.1667	0.9989971	
N	BARIUM	137	280.0100	0.9987916	
N	BERYLLIUM	9	330.6733	0.9990101	
N	BORON	11	430.0100	0.9989560	
N	CADMIUM	111	261.6667	0.9989989	
N	CALCIUM	43	76.00000	0.9992496	
N	CHROMIUM	52	3707.167	0.9989089	
N	COBALT	59	2020.177	0.9989117	
N	COPPER	63	1790.147	0.9989498	
N	IRON	56	24444.25	0.9989669	
N	LEAD	208	1576.790	0.9989934	
N	MAGNESIUM	24	10917.73	0.9989057	
N	MANGANESE	55	1080.063	0.9990983	
N	MOLYBDENUM	95	612.2400	0.9989786	
N	NICKEL	60	886.7100	0.9989501	
N	POTASSIUM	39	81400.27	0.9990583	
N	SELENIUM	82	-289.496	0.9987922	
N	SELENIUM	78	20.83333	0.9990875	
N	SILVER	107	1739.007	0.9989952	
N	SODIUM	23	103916.6	0.9990552	
N	STRONTIUM	88	1020.053	0.9989336	
N	THALLIUM	205	2223.567	0.9991087	
N	THORIUM	232	11.66667	0.9272145	NT

Sample ID: STD1
Analysis Date: 05/29/15 11:10 Standard ID: 15D23552
Sequence: 3

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	576.6900	0.9989136
N	TITANIUM	47	46.66667	0.9991894
N	URANIUM	238	2486.950	0.9989302
N	VANADIUM	51	1385.077	0.9989052
N	ZINC	66	641.6900	0.9989143

Sample ID: STD2
Analysis Date: 05/29/15 11:13 Standard ID: 15D23552
Sequence: 4

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		305117.3	1.16	101	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6442.640	2.00	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		177442.8	1.79	102	80	120	174092.8	
N	SCANDIUM	45		30848.11	1.72	101	80	120	30491.83	
N	GERMANIUM	72		21598.56	0.810	102	80	120	21201.24	
N	RHODIUM	103		296147.1	0.900	102	80	120	291010.8	
N	TELLURIUM	125		1775.683	6.46	105	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		3033.003	3.51	102	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	1030.047	0.9991538	
N	ANTIMONY	121	1656.793	0.9990225	
N	ARSENIC	75	532.0100	0.9989971	
N	BARIUM	137	543.3600	0.9987916	
N	BERYLLIUM	9	602.0100	0.9990101	
N	BORON	11	591.6833	0.9989560	
N	CADMIUM	111	530.6767	0.9989989	
N	CALCIUM	43	93.33333	0.9992496	
N	CHROMIUM	52	5062.593	0.9989089	
N	COBALT	59	4057.297	0.9989117	
N	COPPER	63	3277.097	0.9989498	
N	IRON	56	34915.74	0.9989669	
N	LEAD	208	3407.173	0.9989934	
N	MAGNESIUM	24	20855.42	0.9989057	
N	MANGANESE	55	1620.123	0.9990983	
N	MOLYBDENUM	95	1221.170	0.9989786	
N	NICKEL	60	1416.757	0.9989501	
N	POTASSIUM	39	89454.53	0.9990583	
N	SELENIUM	82	-219.206	0.9987922	
N	SELENIUM	78	37.66667	0.9990875	
N	SILVER	107	3460.453	0.9989952	
N	SODIUM	23	122021.0	0.9990552	
N	STRONTIUM	88	1863.490	0.9989336	
N	THALLIUM	205	4490.853	0.9991087	
N	THORIUM	232	11.66667	0.9272145	NT

Sample ID: STD2
Analysis Date: 05/29/15 11:13 Standard ID: 15D23552
Sequence: 4

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	1220.073	0.9989136
N	TITANIUM	47	76.00000	0.9991894
N	URANIUM	238	4780.963	0.9989302
N	VANADIUM	51	2590.257	0.9989052
N	ZINC	66	806.7000	0.9989143

Sample ID: STD3
Analysis Date: 05/29/15 11:15 Standard ID: 15D23552
Sequence: 5

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		308688.3	0.970	102	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6441.523	2.07	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		177020.7	0.670	102	80	120	174092.8	
N	SCANDIUM	45		31390.43	0.910	103	80	120	30491.83	
N	GERMANIUM	72		21308.07	1.43	101	80	120	21201.24	
N	RHODIUM	103		295181.9	1.03	101	80	120	291010.8	
N	TELLURIUM	125		1800.130	4.45	107	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		3017.667	2.30	101	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	8464.167	0.9991538	
N	ANTIMONY	121	15682.34	0.9990225	
N	ARSENIC	75	4643.920	0.9989971	
N	BARIUM	137	5254.447	0.9987916	
N	BERYLLIUM	9	5553.033	0.9990101	
N	BORON	11	3585.457	0.9989560	
N	CADMIUM	111	4739.807	0.9989989	
N	CALCIUM	43	623.3500	0.9992496	
N	CHROMIUM	52	27260.54	0.9989089	
N	COBALT	59	38100.51	0.9989117	
N	COPPER	63	26871.99	0.9989498	
N	IRON	56	212813.7	0.9989669	
N	LEAD	208	30004.61	0.9989934	
N	MAGNESIUM	24	189933.8	0.9989057	
N	MANGANESE	55	13993.68	0.9990983	
N	MOLYBDENUM	95	11226.74	0.9989786	
N	NICKEL	60	10360.55	0.9989501	
N	POTASSIUM	39	287777.5	0.9990583	
N	SELENIUM	82	477.6433	0.9987922	
N	SELENIUM	78	343.5000	0.9990875	
N	SILVER	107	33058.92	0.9989952	
N	SODIUM	23	433393.7	0.9990552	
N	STRONTIUM	88	18108.52	0.9989336	
N	THALLIUM	205	41221.50	0.9991087	
N	THORIUM	232	13.33333	0.9272145	NT

Sample ID: STD3
Analysis Date: 05/29/15 11:15 Standard ID: 15D23552
Sequence: 5

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	11011.27	0.9989136
N	TITANIUM	47	676.3533	0.9991894
N	URANIUM	238	46958.98	0.9989302
N	VANADIUM	51	21697.96	0.9989052
N	ZINC	66	5251.007	0.9989143

Sample ID: STD4
Analysis Date: 05/29/15 11:18 Standard ID: 15D23552
Sequence: 6

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		308202.3	0.840	102	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6415.963	2.50	102	80	120	6265.890	
N	BISMUTH (NO HE)	209		173971.0	1.06	100	80	120	174092.8	
N	SCANDIUM	45		31205.52	1.00	102	80	120	30491.83	
N	GERMANIUM	72		21460.54	0.660	101	80	120	21201.24	
N	RHODIUM	103		293648.5	0.440	101	80	120	291010.8	
N	TELLURIUM	125		1819.017	1.91	108	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2945.317	1.79	99	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	22993.02	0.9991538	
N	ANTIMONY	121	41535.72	0.9990225	
N	ARSENIC	75	12221.52	0.9989971	
N	BARIUM	137	13249.88	0.9987916	
N	BERYLLIUM	9	14403.60	0.9990101	
N	BORON	11	9046.130	0.9989560	
N	CADMIUM	111	12491.90	0.9989989	
N	CALCIUM	43	1687.440	0.9992496	
N	CHROMIUM	52	67536.23	0.9989089	
N	COBALT	59	99588.11	0.9989117	
N	COPPER	63	70461.87	0.9989498	
N	IRON	56	546956.9	0.9989669	
N	LEAD	208	77839.86	0.9989934	
N	MAGNESIUM	24	500866.0	0.9989057	
N	MANGANESE	55	37679.31	0.9990983	
N	MOLYBDENUM	95	29321.53	0.9989786	
N	NICKEL	60	26618.11	0.9989501	
N	POTASSIUM	39	648445.6	0.9990583	
N	SELENIUM	82	1715.853	0.9987922	
N	SELENIUM	78	906.0300	0.9990875	
N	SILVER	107	87039.31	0.9989952	
N	SODIUM	23	1005017	0.9990552	
N	STRONTIUM	88	46543.67	0.9989336	
N	THALLIUM	205	109216.8	0.9991087	
N	THORIUM	232	8.333333	0.9272145	NT

Sample ID: STD4
Analysis Date: 05/29/15 11:18 Standard ID: 15D23552
Sequence: 6

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	28459.48	0.9989136
N	TITANIUM	47	1865.120	0.9991894
N	URANIUM	238	120232.5	0.9989302
N	VANADIUM	51	56569.71	0.9989052
N	ZINC	66	13062.71	0.9989143

Sample ID: STD5
Analysis Date: 05/29/15 11:20 Standard ID: 15D23552
Sequence: 7

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		306676.1	0.850	102	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6381.507	2.21	102	80	120	6265.890	
N	BISMUTH (NO HE)	209		174257.6	1.92	100	80	120	174092.8	
N	SCANDIUM	45		31050.73	1.01	102	80	120	30491.83	
N	GERMANIUM	72		21818.83	0.670	103	80	120	21201.24	
N	RHODIUM	103		294700.8	0.170	101	80	120	291010.8	
N	TELLURIUM	125		1774.567	0.890	105	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2997.660	1.36	101	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	45113.87	0.9991538	
N	ANTIMONY	121	82417.20	0.9990225	
N	ARSENIC	75	24700.01	0.9989971	
N	BARIUM	137	26629.43	0.9987916	
N	BERYLLIUM	9	29524.34	0.9990101	
N	BORON	11	18351.41	0.9989560	
N	CADMIUM	111	24864.98	0.9989989	
N	CALCIUM	43	3325.053	0.9992496	
N	CHROMIUM	52	132362.4	0.9989089	
N	COBALT	59	199160.3	0.9989117	
N	COPPER	63	140105.0	0.9989498	
N	IRON	56	1077443	0.9989669	
N	LEAD	208	155336.0	0.9989934	
N	MAGNESIUM	24	999286.0	0.9989057	
N	MANGANESE	55	75918.74	0.9990983	
N	MOLYBDENUM	95	58900.03	0.9989786	
N	NICKEL	60	54004.17	0.9989501	
N	POTASSIUM	39	1240757	0.9990583	
N	SELENIUM	82	3657.663	0.9987922	
N	SELENIUM	78	1808.697	0.9990875	
N	SILVER	107	174330.3	0.9989952	
N	SODIUM	23	1948177	0.9990552	
N	STRONTIUM	88	94970.08	0.9989336	
N	THALLIUM	205	218717.5	0.9991087	
N	THORIUM	232	20.00000	0.9272145	NT

Sample ID: STD5
Analysis Date: 05/29/15 11:20 Standard ID: 15D23552
Sequence: 7

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	56113.07	0.9989136
N	TITANIUM	47	3634.790	0.9991894
N	URANIUM	238	241359.0	0.9989302
N	VANADIUM	51	112798.9	0.9989052
N	ZINC	66	26466.06	0.9989143

Sample ID: STD6
Analysis Date: 05/29/15 11:23 Standard ID: 15D23552
Sequence: 8

QC Parameters

Exp	Parameter	Mass	Units	Intensity	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		303213.3	0.500	101	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6483.777	2.46	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		171778.8	0.100	99	80	120	174092.8	
N	SCANDIUM	45		31277.91	0.140	103	80	120	30491.83	
N	GERMANIUM	72		21717.60	1.30	102	80	120	21201.24	
N	RHODIUM	103		290211.5	1.80	100	80	120	291010.8	
N	TELLURIUM	125		1830.130	4.92	109	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2991.330	2.85	101	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Intensity	CorCoef	
N	ALUMINUM	27	89460.92	0.9991538	
N	ANTIMONY	121	160726.0	0.9990225	
N	ARSENIC	75	49519.11	0.9989971	
N	BARIUM	137	53558.01	0.9987916	
N	BERYLLIUM	9	58260.61	0.9990101	
N	BORON	11	36892.19	0.9989560	
N	CADMIUM	111	50331.60	0.9989989	
N	CALCIUM	43	6580.170	0.9992496	
N	CHROMIUM	52	261618.8	0.9989089	
N	COBALT	59	396476.8	0.9989117	
N	COPPER	63	279367.9	0.9989498	
N	IRON	56	2162363	0.9989669	
N	LEAD	208	310946.5	0.9989934	
N	MAGNESIUM	24	2043014	0.9989057	
N	MANGANESE	55	149367.9	0.9990983	
N	MOLYBDENUM	95	117635.4	0.9989786	
N	NICKEL	60	105345.5	0.9989501	
N	POTASSIUM	39	2408202	0.9990583	
N	SELENIUM	82	7666.317	0.9987922	
N	SELENIUM	78	3621.207	0.9990875	
N	SILVER	107	336845.9	0.9989952	
N	SODIUM	23	3747234	0.9990552	
N	STRONTIUM	88	189524.0	0.9989336	
N	THALLIUM	205	427736.1	0.9991087	
N	THORIUM	232	41.66667	0.9272145	NT

Sample ID: STD6
Analysis Date: 05/29/15 11:23 Standard ID: 15D23552
Sequence: 8

Target Parameters cont'd.

Exp	Parameter	Mass	Intensity	CorCoef
N	TIN	118	111306.8	0.9989136
N	TITANIUM	47	7370.197	0.9991894
N	URANIUM	238	484147.5	0.9989302
N	VANADIUM	51	227836.8	0.9989052
N	ZINC	66	51702.75	0.9989143

Sample ID: ICV-2
Analysis Date: 05/29/15 11:25 Standard ID: 15D23558
Sequence: 9

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		310758.9			0.590	103	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6337.037			4.76	101	80	120	6265.890	
N	BISMUTH (NO HE)	209		173422.6			0.250	100	80	120	174092.8	
N	SCANDIUM	45		31453.82			2.00	103	80	120	30491.83	
N	GERMANIUM	72		21787.69			0.750	103	80	120	21201.24	
N	RHODIUM	103		290927.1			0.620	100	80	120	291010.8	
N	TELLURIUM	125		1815.683			4.47	108	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2909.310			3.45	98	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		9.748821	9.748821	1.45	97	90	110	10	0.9991538
N	ANTIMONY	121		0.1048745	0.1048745	1.34	105	90	110	0.10	0.9990225
N	ARSENIC	75		0.09702751	0.09702751	4.17	97	90	110	0.10	0.9989971
N	BARIUM	137		0.09848712	0.09848712	2.27	98	90	110	0.10	0.9987916
N	BERYLLIUM	9		0.09640429	0.09640429	1.31	96	90	110	0.10	0.9990101
N	BORON	11		0.09523288	0.09523288	3.94	95	90	110	0.10	0.9989560
N	CADMIUM	111		0.09762189	0.09762189	2.90	98	90	110	0.10	0.9989989
N	CALCIUM	43		9.724179	9.724179	1.86	97	90	110	10	0.9992496
N	CHROMIUM	52		0.09657413	0.09657413	0.610	97	90	110	0.10	0.9989089
N	COBALT	59		0.09774747	0.09774747	1.84	98	90	110	0.10	0.9989117
N	COPPER	63		0.09819315	0.09819315	1.18	98	90	110	0.10	0.9989498
N	IRON	56		9.488547	9.488547	1.97	95	90	110	10	0.9989669
N	LEAD	208		0.09794810	0.09794810	1.06	98	90	110	0.10	0.9989934
N	MAGNESIUM	24		9.608270	9.608270	1.65	96	90	110	10	0.9989057
N	MANGANESE	55		0.1000262	0.1000262	0.850	100	90	110	0.10	0.9990983
N	MOLYBDENUM	95		0.09656902	0.09656902	0.100	97	90	110	0.10	0.9989786
N	NICKEL	60		0.1006468	0.1006468	1.25	101	90	110	0.10	0.9989501
N	POTASSIUM	39		9.641911	9.641911	1.88	96	90	110	10	0.9990583
N	SELENIUM	82		0.1009740	0.1009740	8.37	101	90	110	0.10	0.9987922
N	SELENIUM	78		0.1005211	0.1005211	3.24	101	90	110	0.10	0.9990875
N	SILVER	107		0.09933706	0.09933706	0.410	99	90	110	0.10	0.9989952
N	SODIUM	23		9.817750	9.817750	1.74	98	90	110	10	0.9990552
N	STRONTIUM	88		0.09725967	0.09725967	1.16	97	90	110	0.10	0.9989336
N	THALLIUM	205		0.09635514	0.09635514	0.410	96	90	110	0.10	0.9991087

Sample ID: ICV-2
Analysis Date: 05/29/15 11:25 Standard ID: 15D23558
Sequence: 9

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	THORIUM	232		2064.464	2064.464	0.500	2064464	90	110	0.10	0.9272145	NT
N	TIN	118		0.1002739	0.1002739	0.310	100	90	110	0.10	0.9989136	
N	TITANIUM	47		0.09683855	0.09683855	3.11	97	90	110	0.10	0.9991894	
N	URANIUM	238		0.09698978	0.09698978	0.630	97	90	110	0.10	0.9989302	
N	VANADIUM	51		0.09664020	0.09664020	0.360	97	90	110	0.10	0.9989052	
N	ZINC	66		0.1006166	0.1006166	1.46	101	90	110	0.10	0.9989143	

Sample ID: ICB-2
Analysis Date: 05/29/15 11:27
Sequence: 10

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		298576.4			1.21	99	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6230.320			0.590	99	80	120	6265.890	
N	BISMUTH (NO HE)	209		171410.6			1.01	98	80	120	174092.8	
N	SCANDIUM	45		30206.83			0.880	99	80	120	30491.83	
N	GERMANIUM	72		20785.11			1.41	98	80	120	21201.24	
N	RHODIUM	103		289670.2			0.780	100	80	120	291010.8	
N	TELLURIUM	125		1712.340			5.38	102	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2898.640			2.03	97	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	ALUMINUM	27		0.0004048510	0.0004048510	0.9991538
N	ANTIMONY	121		0.0002895650	0.0002895650	0.9990225
N	ARSENIC	75		0.00001374300	0.00001374300	0.9989971
N	BARIUM	137		-0.0000003250000	-0.0000003250000	0.9987916
N	BERYLLIUM	9		0.00003736300	0.00003736300	0.9990101
N	BORON	11		0.009941786	0.009941786	0.9989560
N	CADMIUM	111		0.000008676000	0.000008676000	0.9989989
N	CALCIUM	43		-0.003100333	-0.003100333	0.9992496
N	CHROMIUM	52		0.00007654900	0.00007654900	0.9989089
N	COBALT	59		0.00001295800	0.00001295800	0.9989117
N	COPPER	63		0.00006864500	0.00006864500	0.9989498
N	IRON	56		0.001009629	0.001009629	0.9989669
N	LEAD	208		0.00007362800	0.00007362800	0.9989934
N	MAGNESIUM	24		-0.001108578	-0.001108578	0.9989057
N	MANGANESE	55		-0.00003012700	-0.00003012700	0.9990983
N	MOLYBDENUM	95		0.00004165900	0.00004165900	0.9989786
N	NICKEL	60		0.0001309770	0.0001309770	0.9989501
N	POTASSIUM	39		-0.008142407	-0.008142407	0.9990583
N	SELENIUM	82		0.004323135	0.004323135	0.9987922
N	SELENIUM	78		0.00005508000	0.00005508000	0.9990875
N	SILVER	107		0.0001758500	0.0001758500	0.9989952
N	SODIUM	23		-0.02410677	-0.02410677	0.9990552
N	STRONTIUM	88		0.00003938600	0.00003938600	0.9989336
N	THALLIUM	205		0.0001105200	0.0001105200	0.9991087

Sample ID: ICB-2
Analysis Date: 05/29/15 11:27
Sequence: 10

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	THORIUM	232		1.127719	1.127719	0.9272145
N	TIN	118		0.00007258600	0.00007258600	0.9989136
N	TITANIUM	47		-0.00002665900	-0.00002665900	0.9991894
N	URANIUM	238		0.00001676700	0.00001676700	0.9989302
N	VANADIUM	51		-0.00003161800	-0.00003161800	0.9989052
N	ZINC	66		0.00003924800	0.00003924800	0.9989143

Sample ID: LLICV-2
Analysis Date: 05/29/15 11:30 Standard ID: 15D27686
Sequence: 11

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		302895.1			0.600	101	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6274.777			0.890	100	80	120	6265.890	
N	BISMUTH (NO HE)	209		170736.2			1.07	98	80	120	174092.8	
N	SCANDIUM	45		30684.41			1.18	101	80	120	30491.83	
N	GERMANIUM	72		21371.54			2.02	101	80	120	21201.24	
N	RHODIUM	103		292017.7			0.670	100	80	120	291010.8	
N	TELLURIUM	125		1732.340			6.56	103	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2887.303			1.98	97	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ANTIMONY	121		0.001230694	0.001230694	7.12	123	1	200	0.0010	0.9990225
N	ARSENIC	75		0.001029698	0.001029698	3.19	103	1	200	0.0010	0.9989971
N	BARIUM	137		0.001884580	0.001884580	23.110	94	1	200	0.0020	0.9987916
N	BERYLLIUM	9		0.001021200	0.001021200	8.48	102	1	200	0.0010	0.9990101
N	CADMIUM	111		0.001042532	0.001042532	5.71	104	1	200	0.0010	0.9989989
N	CHROMIUM	52		0.0009244710	0.0009244710	14.810	92	1	200	0.0010	0.9989089
N	COBALT	59		0.0009149750	0.0009149750	8.65	91	1	200	0.0010	0.9989117
N	COPPER	63		0.001038113	0.001038113	10.50	104	1	200	0.0010	0.9989498
N	IRON	56		0.1065389	0.1065389	2.85	2	1	200	5	0.9989669
N	LEAD	208		0.001055559	0.001055559	5.67	106	1	200	0.0010	0.9989934
N	MANGANESE	55		0.002063662	0.002063662	11.950	103	1	200	0.0020	0.9990983
N	MOLYBDENUM	95		0.001940923	0.001940923	5.16	97	1	200	0.0020	0.9989786
N	NICKEL	60		0.001069682	0.001069682	28.020	107	1	200	0.0010	0.9989501
N	SELENIUM	82		0.003661783	0.003661783	49.860	366	1	200	0.0010	0.9987922
N	SELENIUM	78		0.001089329	0.001089329	3.94	109	1	200	0.0010	0.9990875
N	SILVER	107		0.001002029	0.001002029	4.06	100	1	200	0.0010	0.9989952
N	THALLIUM	205		0.001020695	0.001020695	0.780	102	1	200	0.0010	0.9991087
N	TIN	118		0.001218882	0.001218882	12.50	122	1	200	0.0010	0.9989136
N	VANADIUM	51		0.001912110	0.001912110	8.24	96	1	200	0.0020	0.9989052
N	ZINC	66		0.01052216	0.01052216	4.93	105	1	200	0.01	0.9989143
N	ALUMINUM	27		0.1008785	0.1008785	5.82					0.9991538
N	BORON	11		0.02214110	0.02214110	0.950					0.9989560
N	CALCIUM	43		1.042058	1.042058	9.47					0.9992496
N	MAGNESIUM	24		0.9901836	0.9901836	3.14					0.9989057

Sample ID: LLICV-2
Analysis Date: 05/29/15 11:30 Standard ID: 15D27686
Sequence: 11

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	POTASSIUM	39		0.9804080	0.9804080	4.47					0.9990583	
N	SODIUM	23		0.9616189	0.9616189	2.38					0.9990552	
N	STRONTIUM	88		0.009641884	0.009641884	3.94					0.9989336	
N	THORIUM	232		210.6145	210.6145	1.83					0.9272145	NT
N	TITANIUM	47		0.009481282	0.009481282	9.27					0.9991894	
N	URANIUM	238		0.009712829	0.009712829	1.56					0.9989302	

Sample ID: ICSA-2
Analysis Date: 05/29/15 11:32 Standard ID: 15D27682
Sequence: 12

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		298228.4			0.690	99	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6074.693			1.78	97	80	120	6265.890	
N	BISMUTH (NO HE)	209		162431.4			1.65	93	80	120	174092.8	
N	SCANDIUM	45		29724.69			1.21	97	80	120	30491.83	
N	GERMANIUM	72		20891.91			1.31	99	80	120	21201.24	
N	RHODIUM	103		268320.5			0.590	92	80	120	291010.8	
N	TELLURIUM	125		1673.443			8.28	99	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2722.270			1.94	92	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		98.80148	98.80148	2.31	99	80	120	100	0.9991538
N	ANTIMONY	121		0.0001881420	0.0001881420	49.160				0	0.9990225
N	ARSENIC	75		0.0001282980	0.0001282980	22.50				0	0.9989971
N	BARIUM	137		0.0003403100	0.0003403100	38.140				0	0.9987916
N	BERYLLIUM	9		0.00008147500	0.00008147500	21.880				0	0.9990101
N	BORON	11		0.007070739	0.007070739	4.43				0	0.9989560
N	CADMIUM	111		0.0003848850	0.0003848850	16.740				0	0.9989989
N	CALCIUM	43		95.40406	95.40406	1.14	95	80	120	100	0.9992496
N	CHROMIUM	52		0.001397895	0.001397895	6.23				0	0.9989089
N	COBALT	59		0.00004771600	0.00004771600	34.740				0	0.9989117
N	COPPER	63		0.0007315290	0.0007315290	16.150				0	0.9989498
N	IRON	56		94.23456	94.23456	1.61	94	80	120	100	0.9989669
N	LEAD	208		0.0003608620	0.0003608620	6.27				0	0.9989934
N	MAGNESIUM	24		93.60176	93.60176	0.930	94	80	120	100	0.9989057
N	MANGANESE	55		0.0006401050	0.0006401050	15.940				0	0.9990983
N	MOLYBDENUM	95		2.054271	2.054271	0.790	103	80	120	2	0.9989786
N	NICKEL	60		0.0002334710	0.0002334710	110.1400				0	0.9989501
N	POTASSIUM	39		96.33261	96.33261	1.89	96	80	120	100	0.9990583
N	SELENIUM	82		0.003464745	0.003464745	40.060				0	0.9987922
N	SELENIUM	78		0.00001195500	0.00001195500	365.5800				0	0.9990875
N	SILVER	107		0.0001386050	0.0001386050	19.080				0	0.9989952
N	SODIUM	23		95.87389	95.87389	2.65	96	80	120	100	0.9990552
N	STRONTIUM	88		0.0008047810	0.0008047810	1.94				0	0.9989336
N	THALLIUM	205		0.00007134800	0.00007134800	18.830				0	0.9991087

Sample ID: ICSA-2
Analysis Date: 05/29/15 11:32 Standard ID: 15D27682
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	THORIUM	232		1.866411	1.866411	32.760				0	0.9272145	NT
N	TIN	118		0.0002179760	0.0002179760	31.810				0	0.9989136	
N	TITANIUM	47		1.965272	1.965272	1.63	98	80	120	2	0.9991894	
N	URANIUM	238		0.00002095900	0.00002095900	14.250				0	0.9989302	
N	VANADIUM	51		-0.00006032700	-0.00006032700					0	0.9989052	
N	ZINC	66		0.002126142	0.002126142	9.22				0	0.9989143	

Sample ID: ICSAB-2
Analysis Date: 05/29/15 11:34 Standard ID: 15D27683
Sequence: 13

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		288682.3			1.14	96	80	120	301366.9	
N	TELLURIUM (NO HE)	125		5811.250			1.84	93	80	120	6265.890	
N	BISMUTH (NO HE)	209		156409.4			1.01	90	80	120	174092.8	
N	SCANDIUM	45		28994.34			1.13	95	80	120	30491.83	
N	GERMANIUM	72		20546.99			1.02	97	80	120	21201.24	
N	RHODIUM	103		267217.2			0.500	92	80	120	291010.8	
N	TELLURIUM	125		1677.887			5.46	100	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2726.940			2.35	92	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		97.51967	97.51967	2.17	98	80	120	100	0.9991538
N	ANTIMONY	121		0.02121792	0.02121792	0.790	106	80	120	0.02	0.9990225
N	ARSENIC	75		0.01995463	0.01995463	4.28	100	80	120	0.02	0.9989971
N	BARIUM	137		0.02025719	0.02025719	2.52	101	80	120	0.02	0.9987916
N	BERYLLIUM	9		0.01841363	0.01841363	3.68	92	80	120	0.02	0.9990101
N	BORON	11		0.02310412	0.02310412	1.96				0	0.9989560
N	CADMIUM	111		0.02018130	0.02018130	3.55	101	80	120	0.02	0.9989989
N	CALCIUM	43		95.21500	95.21500	0.980	95	80	120	100	0.9992496
N	CHROMIUM	52		0.02038129	0.02038129	1.08	102	80	120	0.02	0.9989089
N	COBALT	59		0.01964009	0.01964009	3.18	98	80	120	0.02	0.9989117
N	COPPER	63		0.02020310	0.02020310	2.72	101	80	120	0.02	0.9989498
N	IRON	56		94.25937	94.25937	0.450	94	80	120	100	0.9989669
N	LEAD	208		0.01969430	0.01969430	2.33	98	80	120	0.02	0.9989934
N	MAGNESIUM	24		92.86101	92.86101	1.98	93	80	120	100	0.9989057
N	MANGANESE	55		0.01971461	0.01971461	1.38	99	80	120	0.02	0.9990983
N	MOLYBDENUM	95		2.013420	2.013420	0.450	101	80	120	2	0.9989786
N	NICKEL	60		0.01986350	0.01986350	5.58	99	80	120	0.02	0.9989501
N	POTASSIUM	39		94.17410	94.17410	1.32	94	80	120	100	0.9990583
N	SELENIUM	82		0.02500095	0.02500095	4.65	125	80	120	0.02	0.9987922
N	SELENIUM	78		0.01931751	0.01931751	1.13	97	80	120	0.02	0.9990875
N	SILVER	107		0.01978424	0.01978424	1.55	99	80	120	0.02	0.9989952
N	SODIUM	23		94.05162	94.05162	1.45	94	80	120	100	0.9990552
N	STRONTIUM	88		0.02116724	0.02116724	2.08				0	0.9989336
N	THALLIUM	205		0.01919679	0.01919679	0.450	96	80	120	0.02	0.9991087

Sample ID: ICSAB-2
Analysis Date: 05/29/15 11:34 Standard ID: 15D27683
Sequence: 13

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	THORIUM	232		418.5986	418.5986	1.94				0	0.9272145	NT
N	TIN	118		0.02051309	0.02051309	2.24	103	80	120	0.02	0.9989136	
N	TITANIUM	47		1.952061	1.952061	1.62	98	80	120	2	0.9991894	
N	URANIUM	238		0.01934411	0.01934411	1.80				0	0.9989302	
N	VANADIUM	51		0.01934581	0.01934581	1.00	97	80	120	0.02	0.9989052	
N	ZINC	66		0.02174461	0.02174461	3.03	109	80	120	0.02	0.9989143	

Sample ID: CCV-2
Analysis Date: 05/29/15 12:38 Standard ID: 15D23552
Sequence: 29

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		291288.0			0.930	97	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6433.753			3.65	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		179446.4			1.36	103	80	120	174092.8	
N	SCANDIUM	45		29400.72			1.46	96	80	120	30491.83	
N	GERMANIUM	72		20921.96			0.660	99	80	120	21201.24	
N	RHODIUM	103		292454.5			0.350	100	80	120	291010.8	
N	TELLURIUM	125		1741.230			3.37	103	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2930.650			1.30	99	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		1.014183	1.014183	1.38	101	90	110	1	0.9991538
N	ANTIMONY	121		0.1028567	0.1028567	1.30	103	90	110	0.10	0.9990225
N	ARSENIC	75		0.1046612	0.1046612	3.07	105	90	110	0.10	0.9989971
N	BARIUM	137		0.1035786	0.1035786	2.42	104	90	110	0.10	0.9987916
N	BERYLLIUM	9		0.09828252	0.09828252	0.940	98	90	110	0.10	0.9990101
N	BORON	11		0.1022502	0.1022502	2.34	102	90	110	0.10	0.9989560
N	CADMIUM	111		0.1085480	0.1085480	3.53	109	90	110	0.10	0.9989989
N	CALCIUM	43		10.01448	10.01448	5.18	100	90	110	10	0.9992496
N	CHROMIUM	52		0.1040448	0.1040448	1.45	104	90	110	0.10	0.9989089
N	COBALT	59		0.1046064	0.1046064	0.330	105	90	110	0.10	0.9989117
N	COPPER	63		0.1063287	0.1063287	2.22	106	90	110	0.10	0.9989498
N	IRON	56		1.037190	1.037190	0.820	104	90	110	1	0.9989669
N	LEAD	208		0.1036411	0.1036411	1.20	104	90	110	0.10	0.9989934
N	MAGNESIUM	24		10.19766	10.19766	0.520	102	90	110	10	0.9989057
N	MANGANESE	55		0.1028588	0.1028588	1.90	103	90	110	0.10	0.9990983
N	MOLYBDENUM	95		0.1037235	0.1037235	0.630	104	90	110	0.10	0.9989786
N	NICKEL	60		0.1061904	0.1061904	2.01	106	90	110	0.10	0.9989501
N	POTASSIUM	39		10.11544	10.11544	0.590	101	90	110	10	0.9990583
N	SELENIUM	82		0.1032126	0.1032126	2.31	103	90	110	0.10	0.9987922
N	SELENIUM	78		0.1008127	0.1008127	1.25	101	90	110	0.10	0.9990875
N	SILVER	107		0.1053326	0.1053326	1.21	105	90	110	0.10	0.9989952
N	SODIUM	23		10.69042	10.69042	1.27	107	90	110	10	0.9990552
N	STRONTIUM	88		0.1003563	0.1003563	1.34	100	90	110	0.10	0.9989336
N	THALLIUM	205		0.1033787	0.1033787	1.79	103	90	110	0.10	0.9991087

Sample ID: CCV-2
Analysis Date: 05/29/15 12:38 Standard ID: 15D23552
Sequence: 29

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	TIN	118		0.1033149	0.1033149	1.09	103	90	110	0.10	0.9989136	
N	TITANIUM	47		0.1035839	0.1035839	1.80	104	90	110	0.10	0.9991894	
N	URANIUM	238		0.1038366	0.1038366	1.58	104	90	110	0.10	0.9989302	
N	VANADIUM	51		0.1031442	0.1031442	1.41	103	90	110	0.10	0.9989052	
N	ZINC	66		0.1058292	0.1058292	2.05	106	90	110	0.10	0.9989143	
N	THORIUM	232		0.08483817	0.08483817	24.940		90	110		0.9272145	NT

Sample ID: CCB-2
Analysis Date: 05/29/15 12:49
Sequence: 30

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		301382.2			1.35	100	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6434.857			0.600	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		180587.9			0.310	104	80	120	174092.8	
N	SCANDIUM	45		30165.59			1.00	99	80	120	30491.83	
N	GERMANIUM	72		21231.29			0.740	100	80	120	21201.24	
N	RHODIUM	103		297444.1			0.630	102	80	120	291010.8	
N	TELLURIUM	125		1812.353			6.17	108	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2954.987			1.52	99	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	ALUMINUM	27		-0.0003960210	-0.0003960210	0.9991538
N	ANTIMONY	121		0.00009670000	0.00009670000	0.9990225
N	ARSENIC	75		-0.00001703000	-0.00001703000	0.9989971
N	BARIUM	137		0.00001080600	0.00001080600	0.9987916
N	BERYLLIUM	9		0.00001613800	0.00001613800	0.9990101
N	BORON	11		0.005787077	0.005787077	0.9989560
N	CADMIUM	111		0.000002553000	0.000002553000	0.9989989
N	CALCIUM	43		-0.009529402	-0.009529402	0.9992496
N	CHROMIUM	52		-0.0002101430	-0.0002101430	0.9989089
N	COBALT	59		-0.00001554100	-0.00001554100	0.9989117
N	COPPER	63		-0.00006603900	-0.00006603900	0.9989498
N	IRON	56		-0.001168059	-0.001168059	0.9989669
N	LEAD	208		0.000001026000	0.000001026000	0.9989934
N	MAGNESIUM	24		0.005429457	0.005429457	0.9989057
N	MANGANESE	55		-0.00009629500	-0.00009629500	0.9990983
N	MOLYBDENUM	95		0.00001298100	0.00001298100	0.9989786
N	NICKEL	60		-0.0002136130	-0.0002136130	0.9989501
N	POTASSIUM	39		0.0009928080	0.0009928080	0.9990583
N	SELENIUM	82		0.002397179	0.002397179	0.9987922
N	SELENIUM	78		-0.000008392000	-0.000008392000	0.9990875
N	SILVER	107		0.000002153000	0.000002153000	0.9989952
N	SODIUM	23		0.09393016	0.09393016	0.9990552
N	STRONTIUM	88		0.0001531900	0.0001531900	0.9989336
N	THALLIUM	205		0.000009898000	0.000009898000	0.9991087

Sample ID: CCB-2
Analysis Date: 05/29/15 12:49
Sequence: 30

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	THORIUM	232		-0.01567748	-0.01567748	0.9272145 NT
N	TIN	118		0.00001089100	0.00001089100	0.9989136
N	TITANIUM	47		0.00004876900	0.00004876900	0.9991894
N	URANIUM	238		0.000007622000	0.000007622000	0.9989302
N	VANADIUM	51		0.00001163400	0.00001163400	0.9989052
N	ZINC	66		-0.0007020260	-0.0007020260	0.9989143

Sample ID: BLANK DF: 1x Workgroup: WG791888
Analysis Date: 05/29/15 12:51
Sequence: 31

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		281979.0			1.29	94	60	120	301366.9	
N	TELLURIUM (NO HE)	125		6020.220			1.61	96	60	120	6265.890	
N	BISMUTH (NO HE)	209		176646.0			1.58	101	60	120	174092.8	
N	SCANDIUM	45		28252.83			1.61	93	60	120	30491.83	
N	GERMANIUM	72		20425.70			2.10	96	60	120	21201.24	
N	RHODIUM	103		290501.5			0.440	100	60	120	291010.8	
N	TELLURIUM	125		1720.117			3.71	102	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2794.283			2.85	94	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	0.5RL	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0001113021	0.0001236690	0.001000	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.0001128969	0.0001254410	0.001000	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.00003679200	0.00004088000	0.002500	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	-0.000008688601	-0.000009654000	0.001000	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.00000005040001	0.00000005600000	0.000500	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	-0.00004438620	-0.00004931800	0.001000	-0.00500		0.9989089
N	COBALT	59	mg/l	-0.000008820901	-0.000009801000	0.001000	-0.00500		0.9989117
N	COPPER	63	mg/l	0.0001930734	0.0002145260	0.002500	-0.01250		0.9989498
N	LEAD	208	mg/l	0.00003506940	0.00003896600	0.001000	-0.00500		0.9989934
N	MANGANESE	55	mg/l	-0.00001054350	-0.00001171500	0.002500	-0.01250		0.9990983
N	NICKEL	60	mg/l	-0.0001369944	-0.0001522160	0.001000	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.002218092	0.002464546	0.001000	-0.00500		0.9987922
N	SELENIUM	78	mg/l	-0.00003527550	-0.00003919500	0.001000	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00002361690	0.00002624100	0.001000	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.000005750101	0.000006389000	0.001000	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.0003080052	0.0003422280	0.002500	-0.01250		0.9989052
N	ZINC	66	mg/l	-0.0006480910	-0.0007201010	0.012500	-0.06250		0.9989143
N	ALUMINUM	27	mg/l	0.0007667803	0.0008519780	0.002500	-0.01250		0.9991538
N	BORON	11	mg/l	0.005598299	0.006220332	0.0100	-0.050		0.9989560
N	CALCIUM	43	mg/l	0.02885181	0.03205756	0.50	-2.5		0.9992496
N	IRON	56	mg/l	0.005239409	0.005821565	0.0500	-0.250		0.9989669
N	MAGNESIUM	24	mg/l	0.01156441	0.01284934	0.50	-2.5		0.9989057
N	MOLYBDENUM	95	mg/l	0.00002076930	0.00002307700	0.002500	-0.01250		0.9989786
N	POTASSIUM	39	mg/l	0.007282103	0.008091225	0.50	-2.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: BLANK DF: 1x Workgroup: WG791888
Analysis Date: 05/29/15 12:51
Sequence: 31

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	0.5RL	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	0.08993710	0.09993010	0.50	-2.5		0.9990552
N	STRONTIUM	88	mg/l	0.0002116413	0.0002351570	0.0050	-0.025		0.9989336
N	THORIUM	232		-0.001262983	-0.001403314				0.9272145
N	TIN	118	mg/l	0.0001437588	0.0001597320	0.001000	-0.00500		0.9989136
N	TITANIUM	47	mg/l	0.00004278420	0.00004753800	0.0050	-0.025		0.9991894
N	URANIUM	238	mg/l	0.000002548800	0.000002832000	0.0050	-0.025		0.9989302

Sample ID: LCS DF: 1x Workgroup: WG791888
Analysis Date: 05/29/15 12:53 Standard ID:
Sequence: 32

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		285437.7			0.270	95	60	120	301366.9	
N	TELLURIUM (NO HE)	125		6385.947			1.92	102	60	120	6265.890	
N	BISMUTH (NO HE)	209		174416.3			0.490	100	60	120	174092.8	
N	SCANDIUM	45		29287.11			0.930	96	60	120	30491.83	
N	GERMANIUM	72		21088.86			2.42	99	60	120	21201.24	
N	RHODIUM	103		289301.4			1.04	99	60	120	291010.8	
N	TELLURIUM	125		1654.553			2.52	98	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2825.293			2.11	95	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.04873637	0.05415152	0.880	108	80	120	0.05		0.9990225
N	ARSENIC	75	mg/l	0.04732042	0.05257824	2.12	105	80	120	0.05		0.9989971
N	BARIUM	137	mg/l	0.04633180	0.05147977	3.41	103	80	120	0.05		0.9987916
N	BERYLLIUM	9	mg/l	0.04569193	0.05076881	1.40	102	80	120	0.05		0.9990101
N	CADMIUM	111	mg/l	0.05023510	0.05581677	2.27	112	80	120	0.05		0.9989989
N	CHROMIUM	52	mg/l	0.04443594	0.04937326	3.92	99	80	120	0.05		0.9989089
N	COBALT	59	mg/l	0.04592050	0.05102277	2.40	102	80	120	0.05		0.9989117
N	COPPER	63	mg/l	0.04709322	0.05232580	1.07	105	80	120	0.05		0.9989498
N	LEAD	208	mg/l	0.04731844	0.05257604	0.510	105	80	120	0.05		0.9989934
N	MANGANESE	55	mg/l	0.04468284	0.04964759	2.05	99	80	120	0.05		0.9990983
N	NICKEL	60	mg/l	0.04628184	0.05142426	3.17	103	80	120	0.05		0.9989501
N	SELENIUM	82	mg/l	0.04638070	0.05153411	3.78	103	80	120	0.05		0.9987922
N	SELENIUM	78	mg/l	0.04652363	0.05169292	2.27	103	80	120	0.05		0.9990875
N	SILVER	107	mg/l	0.04718294	0.05242548	0.420	105	80	120	0.05		0.9989952
N	THALLIUM	205	mg/l	0.04721532	0.05246146	1.31	105	80	120	0.05		0.9991087
N	VANADIUM	51	mg/l	0.04440958	0.04934397	1.61	99	80	120	0.05		0.9989052
N	ZINC	66	mg/l	0.04549519	0.05055021	1.43	101	80	120	0.05		0.9989143
N	ALUMINUM	27	mg/l	4.520052	5.022279	1.38	100	80	120	5		0.9991538
N	BORON	11	mg/l	0.04588610	0.05098455	7.13	102	80	120	0.05		0.9989560
N	CALCIUM	43	mg/l	4.410876	4.900973	1.87	98	80	120	5		0.9992496
N	IRON	56	mg/l	4.452885	4.947650	0.850	99	80	120	5		0.9989669
N	MAGNESIUM	24	mg/l	4.520817	5.023130	1.01	100	80	120	5		0.9989057
N	MOLYBDENUM	95	mg/l	0.04527761	0.05030845	1.20	101	80	120	0.05		0.9989786
N	POTASSIUM	39	mg/l	4.475284	4.972537	1.39	99	80	120	5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: LCS DF: 1x Workgroup: WG791888
Analysis Date: 05/29/15 12:53 Standard ID:
Sequence: 32

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	Qual	CorCoef
N	SODIUM	23	mg/l	4.708405	5.231561	1.52	105	80	120	5		0.9990552
N	STRONTIUM	88	mg/l	0.04530195	0.05033550	2.14	101	80	120	0.05		0.9989336
N	THORIUM	232		996.3019	1107.002	0.690						0.9272145
N	TIN	118	mg/l	0.04473405	0.04970450	2.88	99	80	120	0.05		0.9989136
N	TITANIUM	47	mg/l	0.04602777	0.05114196	2.57	102	80	120	0.05		0.9991894
N	URANIUM	238	mg/l	0.04740019	0.05266687	1.93	105	80	120	0.05		0.9989302

Sample ID: LCSD DF: 1x Ref Sample ID: Workgroup: WG791888
Analysis Date: 05/29/15 12:56 Standard ID:
Sequence: 33

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		285145.6			1.51	95	60	120	301366.9	
N	TELLURIUM (NO HE)	125		6180.297			2.60	99	60	120	6265.890	
N	BISMUTH (NO HE)	209		180339.0			1.38	104	60	120	174092.8	
N	SCANDIUM	45		28972.02			1.33	95	60	120	30491.83	
N	GERMANIUM	72		21153.39			0.540	100	60	120	21201.24	
N	RHODIUM	103		287137.6			0.980	99	60	120	291010.8	
N	TELLURIUM	125		1762.343			4.49	105	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2918.313			0.930	98	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	RPD	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.05046364	0.05607070	3.02	112	80	120	0.05	3		0.9990225
N	ARSENIC	75	mg/l	0.04414614	0.04905126	3.95	98	80	120	0.05	7		0.9989971
N	BARIUM	137	mg/l	0.04799808	0.05333119	1.48	107	80	120	0.05	4		0.9987916
N	BERYLLIUM	9	mg/l	0.04605629	0.05117365	2.13	102	80	120	0.05	1		0.9990101
N	CADMIUM	111	mg/l	0.04717776	0.05241973	4.12	105	80	120	0.05	6		0.9989989
N	CHROMIUM	52	mg/l	0.04403805	0.04893116	0.800	98	80	120	0.05	1		0.9989089
N	COBALT	59	mg/l	0.04488715	0.04987461	1.43	100	80	120	0.05	2		0.9989117
N	COPPER	63	mg/l	0.04655609	0.05172898	2.04	103	80	120	0.05	1		0.9989498
N	LEAD	208	mg/l	0.04602805	0.05114227	1.10	102	80	120	0.05	3		0.9989934
N	MANGANESE	55	mg/l	0.04551415	0.05057127	3.02	101	80	120	0.05	2		0.9990983
N	NICKEL	60	mg/l	0.04584078	0.05093419	0.430	102	80	120	0.05	1		0.9989501
N	SELENIUM	82	mg/l	0.04813017	0.05347796	9.72	107	80	120	0.05	4		0.9987922
N	SELENIUM	78	mg/l	0.04403351	0.04892612	1.70	98	80	120	0.05	5		0.9990875
N	SILVER	107	mg/l	0.04749098	0.05276775	1.39	106	80	120	0.05	1		0.9989952
N	THALLIUM	205	mg/l	0.04516727	0.05018585	1.01	100	80	120	0.05	4		0.9991087
N	VANADIUM	51	mg/l	0.04390077	0.04877863	1.23	98	80	120	0.05	1		0.9989052
N	ZINC	66	mg/l	0.04429737	0.04921930	4.09	98	80	120	0.05	3		0.9989143
N	ALUMINUM	27	mg/l	4.473971	4.971078	1.13	99	80	120	5	1		0.9991538
N	BORON	11	mg/l	0.04678181	0.05197978	1.29	104	80	120	0.05	2		0.9989560
N	CALCIUM	43	mg/l	4.400713	4.889681	1.91	98	80	120	5	0		0.9992496
N	IRON	56	mg/l	4.344867	4.827629	2.82	97	80	120	5	2		0.9989669
N	MAGNESIUM	24	mg/l	4.516494	5.018326	2.37	100	80	120	5	0		0.9989057
N	MOLYBDENUM	95	mg/l	0.04584517	0.05093907	1.50	102	80	120	0.05	1		0.9989786
N	POTASSIUM	39	mg/l	4.447440	4.941599	1.60	99	80	120	5	1		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: LCSD DF: 1x Ref Sample ID: Workgroup: WG791888
Analysis Date: 05/29/15 12:56 Standard ID:
Sequence: 33

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	RPD	Qual	CorCoef
N	SODIUM	23	mg/l	4.652262	5.169179	0.610	103	80	120	5	1		0.9990552
N	STRONTIUM	88	mg/l	0.04382988	0.04869986	1.82	97	80	120	0.05	3		0.9989336
N	THORIUM	232		978.9814	1087.757	1.16					2		0.9272145
N	TIN	118	mg/l	0.04692889	0.05214321	1.94	104	80	120	0.05	5		0.9989136
N	TITANIUM	47	mg/l	0.04528677	0.05031863	2.66	101	80	120	0.05	2		0.9991894
N	URANIUM	238	mg/l	0.04668755	0.05187505	1.26	104	80	120	0.05	2		0.9989302

Sample ID: L766887-01 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 12:58
Sequence: 34

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		270840.4			2.25	90	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4999.813			1.57	80	60	120	6265.890	
N	BISMUTH (NO HE)	209		136651.8			0.780	78	60	120	174092.8	
N	SCANDIUM	45		29133.48			1.52	96	60	120	30491.83	
N	GERMANIUM	72		21880.03			2.50	103	60	120	21201.24	
N	RHODIUM	103		240426.9			1.67	83	60	120	291010.8	
N	TELLURIUM	125		1398.967			3.24	83	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2297.527			1.61	77	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003798747	0.0004220830	9.63	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.003196153	0.003551281	5.54	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.03163625	0.03515138	3.31	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00002726190	0.00003029100	40.230	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001480302	0.0001644780	11.980	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	0.0001632816	0.0001814240	58.040	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.002867051	0.003185612	2.39	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.001129253	0.001254725	15.950	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.00006968791	0.00007743100	40.670	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5040420	0.5600466	2.72	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.005686707	0.006318563	6.17	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.009295111	0.01032790	35.650	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.01027932	0.01142146	1.16	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.0001386648	0.0001540720	5.56	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.0001244187	0.0001382430	7.60	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.008077600	0.008975110	1.70	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.01212357	0.01347063	3.78	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01223664	0.01359626	12.240	90			0.9991538
N	BORON	11		0.2688144	0.2986826	1.03	5			0.9989560
N	CALCIUM	43		943.1623	1047.958	2.54	450			0.9992496
N	IRON	56	mg/l	0.04425733	0.04917481	4.80	90	-2.5	J	0.9989669
N	MAGNESIUM	24		802.9336	892.1484	2.95	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.01532279	0.01702532	3.70	5	-0.01250		0.9989786
N	POTASSIUM	39		9.700210	10.77801	3.42	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766887-01 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 12:58
Sequence: 34

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		3965.924	4406.582	3.67	450			0.9990552
N	STRONTIUM	88		20.56740	22.85266	0.610	5			0.9989336
N	THORIUM	232		2.424905	2.694339	38.430				0.9272145
N	TIN	118	mg/l	0.0002625867	0.0002917630	19.040	2	-0.00500		0.9989136
N	TITANIUM	47		0.0002416131	0.0002684590	23.670	5			0.9991894
N	URANIUM	238		0.02150663	0.02389625	2.08	5			0.9989302

Sample ID: SD DF: 5x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:00
Sequence: 35

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		288700.9			1.24	96	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5535.580			4.06	88	60	120	6265.890	
N	BISMUTH (NO HE)	209		149304.4			0.700	86	60	120	174092.8	
N	SCANDIUM	45		30090.97			0.400	99	60	120	30491.83	
N	GERMANIUM	72		20085.18			1.48	95	60	120	21201.24	
N	RHODIUM	103		256303.8			0.170	88	60	120	291010.8	
N	TELLURIUM	125		1505.650			3.82	89	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2583.580			1.20	87	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	RPD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0001594535	0.0008858530	35.660	110	1	-0.02500		0.9990225
N	ARSENIC	75	mg/l	0.0006800601	0.003778112	1.85	6	5	-0.02500	J	0.9989971
N	BARIUM	137	mg/l	0.006467457	0.03593032	2.58	2	2	-0.06250		0.9987916
N	BERYLLIUM	9	mg/l	0.0000006818399	0.000003788000	2435.120	0	5	-0.02500		0.9990101
N	CADMIUM	111	mg/l	0.00003618954	0.0002010530	34.820	22	5	-0.01250		0.9989989
N	CHROMIUM	52	mg/l	0.0002056264	0.001142369	19.380	530	5	-0.02500		0.9989089
N	COBALT	59	mg/l	0.0007725025	0.004291681	8.93	35	5	-0.02500	J	0.9989117
N	COPPER	63	mg/l	0.0007265381	0.004036323	24.590	222	5	-0.06250	J	0.9989498
N	LEAD	208	mg/l	0.0002909990	0.001616661	19.530	1988	5	-0.02500	J	0.9989934
N	MANGANESE	55	mg/l	0.1190621	0.6614564	1.86	18	5	-0.06250	O1	0.9990983
N	NICKEL	60	mg/l	0.004282581	0.02379212	3.48	277	5	-0.02500		0.9989501
N	SELENIUM	82	mg/l	-0.002505191	-0.01391773		235	5	-0.02500		0.9987922
N	SELENIUM	78	mg/l	0.002035631	0.01130906	13.990	1	5	-0.02500		0.9990875
N	SILVER	107	mg/l	0.00002421018	0.0001345010	28.250	0	1	-0.02500		0.9989952
N	THALLIUM	205	mg/l	0.00003070854	0.0001706030	76.750	0	5	-0.02500		0.9991087
N	VANADIUM	51	mg/l	0.001998970	0.01110539	2.54	24	5	-0.06250	J	0.9989052
N	ZINC	66	mg/l	0.008783380	0.04879656	7.83	262	5	-0.31250	J	0.9989143
N	ALUMINUM	27	mg/l	0.007245962	0.04025535	18.910	196	90	-0.06250	O1	0.9991538
N	BORON	11	mg/l	0.06593149	0.3662861	0.510	23	5	-0.250	O1	0.9989560
N	CALCIUM	43	mg/l	199.5827	1108.793	1.37	6	450	-12.5		0.9992496
N	IRON	56	mg/l	0.04422427	0.2456904	3.38	400	90	-1.250	J	0.9989669
N	MAGNESIUM	24	mg/l	171.2824	951.5690	0.970	7	450	-12.5		0.9989057
N	MOLYBDENUM	95	mg/l	0.003217896	0.01787720	5.86	5	5	-0.06250	J	0.9989786
N	POTASSIUM	39	mg/l	2.090019	11.61122	1.33	8	90	-12.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:00
Sequence: 35

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	RPD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	845.0845	4694.914	1.16	7	450	-12.5		0.9990552
N	STRONTIUM	88	mg/l	4.333296	24.07387	1.38	5	5	-0.125		0.9989336
N	THORIUM	232		0.2103037	1.168354	53.530	57				0.9272145
N	TIN	118	mg/l	0.0001895715	0.001053175	16.290	261	2	-0.02500		0.9989136
N	TITANIUM	47	mg/l	0.0001246698	0.0006926100	52.540	0	5	-0.125		0.9991894
N	URANIUM	238	mg/l	0.004817178	0.02676210	2.23	12	5	-0.125	J,O1	0.9989302

Sample ID: MS DF: 1x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:02 Standard ID:
Sequence: 36

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		263356.2			2.74	87	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4705.273			4.37	75	60	120	6265.890	
N	BISMUTH (NO HE)	209		124502.3			1.75	72	60	120	174092.8	
N	SCANDIUM	45		27825.42			0.680	91	60	120	30491.83	
N	GERMANIUM	72		21234.66			1.42	100	60	120	21201.24	
N	RHODIUM	103		232541.1			1.15	80	60	120	291010.8	
N	TELLURIUM	125		1341.183			1.75	80	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2145.833			3.86	72	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.05057884	0.05619870	0.0004220830	0.430	112	75	125	0.05	1	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.05513770	0.06126411	0.003551281	2.76	115	75	125	0.05	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.07953942	0.08837712	0.03515138	3.36	106	75	125	0.05	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.04102024	0.04557804	0.00003029100	1.54	91	75	125	0.05	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.04833380	0.05370422	0.0001644780	3.01	107	75	125	0.05	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.04055677	0.04506307	0.0001814240	1.56	90	75	125	0.05	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.04221711	0.04690789	0.003185612	2.41	87	75	125	0.05	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.03933785	0.04370872	0.001254725	0.540	85	75	125	0.05	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.04715379	0.05239309	0.00007743100	1.88	105	75	125	0.05	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5502354	0.6113726	0.5600466	1.64	103	75	125	0.05	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.04375107	0.04861230	0.006318563	2.54	85	75	125	0.05	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.05313533	0.05903925	0.01032790	7.32	97	75	125	0.05	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.06130884	0.06812093	0.01142146	4.81	113	75	125	0.05	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.04496744	0.04996382	0.0001540720	1.14	100	75	125	0.05	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.04668874	0.05187637	0.0001382430	1.48	103	75	125	0.05	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.05032285	0.05591427	0.008975110	1.86	94	75	125	0.05	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.04543114	0.05047904	0.01347063	4.71	74	75	125	0.05	5	-0.06250	J6	0.9989143
N	ALUMINUM	27	mg/l	4.450705	4.945227	0.01359626	0.690	99	75	125	5	90	-0.01250		0.9991538
N	BORON	11	mg/l	0.3105311	0.3450345	0.2986826	1.21	93	75	125	0.05	5	-0.050		0.9989560
N	CALCIUM	43	mg/l	938.9593	1043.288	1047.958000	0.610	0	75	125	5	450	-2.5	V	0.9992496
N	IRON	56	mg/l	3.949748	4.388608	0.04917481	1.30	87	75	125	5	90	-0.250		0.9989669
N	MAGNESIUM	24	mg/l	805.8565	895.3960	892.148400	0.160	65	75	125	5	450	-2.5	V	0.9989057
N	MOLYBDENUM	95	mg/l	0.06356031	0.07062256	0.01702532	1.48	107	75	125	0.05	5	-0.01250		0.9989786
N	POTASSIUM	39	mg/l	13.97029	15.52254	10.778010	2.98	95	75	125	5	90	-2.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:02 Standard ID:
Sequence: 36

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	4079.899	4533.221	4406.582000	0.450	2533	75	125	5	450	-2.5	V	0.9990552
N	STRONTIUM	88	mg/l	21.08224	23.42471	22.852660	0.340	1144	75	125	0.05	5	-0.025	V	0.9989336
N	THORIUM	232		1055.770	1173.078	2.694339	0.300								0.9272145
N	TIN	118	mg/l	0.04660197	0.05177996	0.0002917630	2.55	103	75	125	0.05	2	-0.00500		0.9989136
N	TITANIUM	47	mg/l	0.04770086	0.05300095	0.0002684590	1.76	105	75	125	0.05	5	-0.025		0.9991894
N	URANIUM	238	mg/l	0.07206899	0.08007665	0.02389625	1.18	112	75	125	0.05	5	-0.025		0.9989302

Sample ID: MSD DF: 1x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:05 Standard ID:
Sequence: 37

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		259456.4			0.920	86	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4484.080			2.51	72	60	120	6265.890	
N	BISMUTH (NO HE)	209		120320.5			1.84	69	60	120	174092.8	
N	SCANDIUM	45		27137.43			1.59	89	60	120	30491.83	
N	GERMANIUM	72		21112.23			4.24	100	60	120	21201.24	
N	RHODIUM	103		229281.8			0.810	79	60	120	291010.8	
N	TELLURIUM	125		1304.513			6.39	77	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2119.167			3.57	71	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	RPD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.05118512	0.05687235	0.05619870	1.01	113	75	125	0.05	1	1	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.05499850	0.06110944	0.06126411	6.29	115	75	125	0.05	0	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.07853299	0.08725887	0.08837712	2.99	104	75	125	0.05	1	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.04160008	0.04622231	0.04557804	2.65	92	75	125	0.05	1	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.04831774	0.05368637	0.05370422	6.63	107	75	125	0.05	0	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.03917627	0.04352919	0.04506307	5.00	87	75	125	0.05	3	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.04101685	0.04557427	0.04690789	2.08	85	75	125	0.05	3	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.03891534	0.04323926	0.04370872	3.03	84	75	125	0.05	1	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.04711950	0.05235500	0.05239309	2.91	105	75	125	0.05	0	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5405986	0.6006650	0.6113726	3.80	81	75	125	0.05	2	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.04352581	0.04836201	0.04861230	5.86	84	75	125	0.05	1	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.05080861	0.05645400	0.05903925	10.810	92	75	125	0.05	4	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.06090651	0.06767389	0.06812093	2.92	113	75	125	0.05	1	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.04456305	0.04951449	0.04996382	0.250	99	75	125	0.05	1	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.04696499	0.05218332	0.05187637	0.410	104	75	125	0.05	1	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.04882838	0.05425375	0.05591427	5.22	91	75	125	0.05	3	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.04477308	0.04974786	0.05047904	4.49	73	75	125	0.05	1	5	-0.06250	J6	0.9989143
N	ALUMINUM	27	mg/l	4.443708	4.937453	4.945227	2.53	98	75	125	5	0	90	-0.01250		0.9991538
N	BORON	11	mg/l	0.3249683	0.3610759	0.3450345	1.90	125	75	125	0.05	5	5	-0.050		0.9989560
N	CALCIUM	43	mg/l	944.7364	1049.707	1043.288000	2.26	35	75	125	5	1	450	-2.5	V	0.9992496
N	IRON	56	mg/l	3.941984	4.379982	4.388608	3.18	87	75	125	5	0	90	-0.250		0.9989669
N	MAGNESIUM	24	mg/l	820.1269	911.2520	895.396000	1.34	382	75	125	5	2	450	-2.5	V	0.9989057
N	MOLYBDENUM	95	mg/l	0.06370517	0.07078351	0.07062256	1.84	108	75	125	0.05	0	5	-0.01250		0.9989786
N	POTASSIUM	39	mg/l	14.21212	15.79124	15.522540	2.15	100	75	125	5	2	90	-2.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L766887-01 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:05 Standard ID:
Sequence: 37

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	RPD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	4093.248	4548.053	4533.221000	2.14	2829	75	125	5	0	450	-2.5	V	0.9990552
N	STRONTIUM	88	mg/l	21.10182	23.44646	23.424710	1.73	1188	75	125	0.05	0	5	-0.025	V	0.9989336
N	THORIUM	232		1065.561	1183.956	1173.078000	1.00					1				0.9272145
N	TIN	118	mg/l	0.04677231	0.05196923	0.05177996	0.860	103	75	125	0.05	0	2	-0.00500		0.9989136
N	TITANIUM	47	mg/l	0.04563514	0.05070571	0.05300095	1.65	101	75	125	0.05	4	5	-0.025		0.9991894
N	URANIUM	238	mg/l	0.07189967	0.07988851	0.08007665	2.13	112	75	125	0.05	0	5	-0.025		0.9989302

Sample ID: L766887-02 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:07
Sequence: 38

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		261089.8			1.12	87	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4520.757			2.32	72	60	120	6265.890	
N	BISMUTH (NO HE)	209		120242.9			0.830	69	60	120	174092.8	
N	SCANDIUM	45		27743.00			0.660	91	60	120	30491.83	
N	GERMANIUM	72		21067.73			2.19	99	60	120	21201.24	
N	RHODIUM	103		225305.8			0.730	77	60	120	291010.8	
N	TELLURIUM	125		1258.953			3.61	75	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2085.493			2.66	70	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003945033	0.0004383370	7.38	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.003183578	0.003537309	6.59	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.03475673	0.03861859	3.11	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00003190950	0.00003545500	92.140	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001500750	0.0001667500	19.110	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	0.0004168656	0.0004631840	26.920	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.006696701	0.007440778	4.85	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.001577363	0.001752625	7.38	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0005366107	0.0005962340	16.930	5	-0.00500	J	0.9989934
N	MANGANESE	55	mg/l	1.034916	1.149907	1.48	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.009671059	0.01074562	5.47	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.001732095	0.001924550	164.1500	5	-0.00500	J	0.9987922
N	SELENIUM	78	mg/l	0.01076955	0.01196616	4.21	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.0001020384	0.0001133760	9.41	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.0001451889	0.0001613210	10.750	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.007503539	0.008337265	2.40	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.007403517	0.008226129	5.12	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01320303	0.01467003	10.660	90			0.9991538
N	BORON	11		0.3920343	0.4355936	1.93	5			0.9989560
N	CALCIUM	43		867.5813	963.9791	0.740	450			0.9992496
N	IRON	56	mg/l	0.01957723	0.02175248	2.53	90	-2.5	J	0.9989669
N	MAGNESIUM	24		896.3692	995.9657	1.29	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.03597623	0.03997358	1.83	5	-0.01250		0.9989786
N	POTASSIUM	39		7.666724	8.518581	0.510	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766887-02 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:07
Sequence: 38

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		4344.901	4827.667	1.66	450			0.9990552
N	STRONTIUM	88		19.15453	21.28281	0.980	5			0.9989336
N	THORIUM	232		1.290871	1.434301	17.280				0.9272145
N	TIN	118	mg/l	0.0003457836	0.0003842040	37.720	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0001901160	0.0002112400	9.68	5			0.9991894
N	URANIUM	238		0.01619505	0.01799450	1.29	5			0.9989302

Sample ID: L766887-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:09
Sequence: 39

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		267633.0			2.22	89	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5558.917			1.94	89	60	120	6265.890	
N	BISMUTH (NO HE)	209		148498.6			0.460	85	60	120	174092.8	
N	SCANDIUM	45		27767.51			1.38	91	60	120	30491.83	
N	GERMANIUM	72		20521.40			0.390	97	60	120	21201.24	
N	RHODIUM	103		267444.1			0.400	92	60	120	291010.8	
N	TELLURIUM	125		1544.537			2.18	92	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2574.577			3.74	87	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.00008989921	0.00009988800	53.810	1	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.0001905390	0.0002117100	22.640	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.0006124384	0.0006804870	12.880	2	-0.01250	J	0.9987916
N	BERYLLIUM	9	mg/l	0.00001013490	0.00001126100	239.1500	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.000008396101	0.000009329000	95.310	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.0001941867	0.0002157630	18.950	5	-0.00500		0.9989089
N	COBALT	59	mg/l	-0.000004045500	-0.000004495000		5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.00002476440	0.00002751600	162.300	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.0003278394	0.0003642660	6.21	5	-0.00500	J	0.9989934
N	MANGANESE	55	mg/l	0.0001533969	0.0001704410	92.620	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	-0.0001340406	-0.0001489340		5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	-0.008486056	-0.009428950		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.00001553040	0.00001725600	213.8400	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.000006023701	0.000006693000	1.69	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.000009319501	0.00001035500	116.6600	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.0002794347	0.0003104830	26.610	5	-0.01250	J	0.9989052
N	ZINC	66	mg/l	0.009780814	0.01086757	3.68	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01139666	0.01266295	4.69	90			0.9991538
N	BORON	11		0.03924002	0.04360002	3.04	5			0.9989560
N	CALCIUM	43		0.3760242	0.4178046	17.510	450			0.9992496
N	IRON	56	mg/l	0.0005873860	0.0006526510	28.790	90	-2.5		0.9989669
N	MAGNESIUM	24		0.1291561	0.1435068	17.850	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.00005747671	0.00006386300	5.90	5	-0.01250		0.9989786
N	POTASSIUM	39		0.05855406	0.06506006	40.210	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766887-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:09
Sequence: 39

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		2.983194	3.314660	7.59	450			0.9990552
N	STRONTIUM	88		0.002484244	0.002760271	2.99	5			0.9989336
N	THORIUM	232		0.1818922	0.2021024	25.240				0.9272145
N	TIN	118	mg/l	0.0002384019	0.0002648910	48.220	2	-0.00500		0.9989136
N	TITANIUM	47		0.0001075824	0.0001195360	71.470	5			0.9991894
N	URANIUM	238		0.000004379400	0.000004866000	168.1500	5			0.9989302

Sample ID: L766887-04 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:11
Sequence: 40

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		255131.7			0.830	85	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4675.257			1.09	75	60	120	6265.890	
N	BISMUTH (NO HE)	209		119607.5			0.700	69	60	120	174092.8	
N	SCANDIUM	45		27246.53			0.890	89	60	120	30491.83	
N	GERMANIUM	72		21577.39			3.30	102	60	120	21201.24	
N	RHODIUM	103		226593.5			1.17	78	60	120	291010.8	
N	TELLURIUM	125		1382.300			2.82	82	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2126.830			2.10	72	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0002816928	0.0003129920	26.440	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.002811067	0.003123407	3.11	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.03700929	0.04112143	3.36	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00001932300	0.00002147000	99.440	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001500453	0.0001667170	22.620	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	0.0003218598	0.0003576220	27.510	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.006383394	0.007092659	3.71	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.001973451	0.002192723	8.19	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0002902806	0.0003225340	16.570	5	-0.00500	J	0.9989934
N	MANGANESE	55	mg/l	1.033914	1.148793	0.610	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.009358687	0.01039854	4.06	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.002707708	0.003008564	147.2900	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.01040568	0.01156187	5.31	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00006598891	0.00007332100	12.390	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.0001127052	0.0001252280	13.140	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.007279387	0.008088207	3.02	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.008971938	0.009968819	1.71	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01366261	0.01518068	7.97	90			0.9991538
N	BORON	11		0.3886911	0.4318790	2.20	5			0.9989560
N	CALCIUM	43		870.5143	967.2380	0.500	450			0.9992496
N	IRON	56	mg/l	0.01345251	0.01494723	3.80	90	-2.5		0.9989669
N	MAGNESIUM	24		887.8468	986.4963	2.05	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.03686119	0.04095687	1.75	5	-0.01250		0.9989786
N	POTASSIUM	39		7.596192	8.440212	0.440	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766887-04 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:11
Sequence: 40

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		4337.316	4819.239	1.74	450			0.9990552
N	STRONTIUM	88		19.35893	21.50992	2.61	5			0.9989336
N	THORIUM	232		0.2470493	0.2744992	44.620				0.9272145
N	TIN	118	mg/l	0.0004119588	0.0004577320	9.91	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0002588913	0.0002876570	13.760	5			0.9991894
N	URANIUM	238		0.01684131	0.01871257	1.36	5			0.9989302

Sample ID: CCV
Analysis Date: 05/29/15 13:29 Standard ID: 15D23552
Sequence: 42

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		334942.5			1.15	111	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6671.630			2.52	106	80	120	6265.890	
N	BISMUTH (NO HE)	209		181608.4			1.76	104	80	120	174092.8	
N	SCANDIUM	45		33960.57			1.19	111	80	120	30491.83	
N	GERMANIUM	72		23502.60			1.50	111	80	120	21201.24	
N	RHODIUM	103		314436.4			0.640	108	80	120	291010.8	
N	TELLURIUM	125		1904.587			3.08	113	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		3165.030			1.76	106	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	ALUMINUM	27		1.066580	1.066580	2.34	107	90	110	1	0.9991538	
N	ANTIMONY	121		0.1054892	0.1054892	1.67	105	90	110	0.10	0.9990225	
N	ARSENIC	75		0.1074055	0.1074055	2.40	107	90	110	0.10	0.9989971	
N	BARIUM	137		0.1046510	0.1046510	0.380	105	90	110	0.10	0.9987916	
N	BERYLLIUM	9		0.1014020	0.1014020	1.94	101	90	110	0.10	0.9990101	
N	BORON	11		0.09323466	0.09323466	2.09	93	90	110	0.10	0.9989560	
N	CADMIUM	111		0.1087415	0.1087415	3.73	109	90	110	0.10	0.9989989	
N	CALCIUM	43		10.72297	10.72297	5.10	107	90	110	10	0.9992496	
N	CHROMIUM	52		0.1052742	0.1052742	0.870	105	90	110	0.10	0.9989089	
N	COBALT	59		0.1045510	0.1045510	1.60	105	90	110	0.10	0.9989117	
N	COPPER	63		0.1041020	0.1041020	1.41	104	90	110	0.10	0.9989498	
N	IRON	56		1.049973	1.049973	1.21	105	90	110	1	0.9989669	
N	LEAD	208		0.1043925	0.1043925	2.60	104	90	110	0.10	0.9989934	
N	MAGNESIUM	24		10.60244	10.60244	2.12	106	90	110	10	0.9989057	
N	MANGANESE	55		0.1059633	0.1059633	1.55	106	90	110	0.10	0.9990983	
N	MOLYBDENUM	95		0.1048946	0.1048946	0.460	105	90	110	0.10	0.9989786	
N	NICKEL	60		0.1042862	0.1042862	0.730	104	90	110	0.10	0.9989501	
N	POTASSIUM	39		10.71916	10.71916	0.790	107	90	110	10	0.9990583	
N	SELENIUM	82		0.1072823	0.1072823	3.31	107	90	110	0.10	0.9987922	
N	SELENIUM	78		0.1022266	0.1022266	3.69	102	90	110	0.10	0.9990875	
N	SILVER	107		0.1056543	0.1056543	1.21	106	90	110	0.10	0.9989952	
N	SODIUM	23		11.37281	11.37281	0.650	114	90	110	10	0.9990552	NT
N	STRONTIUM	88		0.1061480	0.1061480	1.90	106	90	110	0.10	0.9989336	
N	THALLIUM	205		0.1050459	0.1050459	2.26	105	90	110	0.10	0.9991087	

Sample ID: CCV
Analysis Date: 05/29/15 13:29 Standard ID: 15D23552
Sequence: 42

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	TIN	118		0.1066541	0.1066541	1.56	107	90	110	0.10	0.9989136	
N	TITANIUM	47		0.1048192	0.1048192	0.750	105	90	110	0.10	0.9991894	
N	URANIUM	238		0.1034667	0.1034667	1.29	103	90	110	0.10	0.9989302	
N	VANADIUM	51		0.1053719	0.1053719	1.69	105	90	110	0.10	0.9989052	
N	ZINC	66		0.1061719	0.1061719	2.04	106	90	110	0.10	0.9989143	
N	THORIUM	232		0.07138425	0.07138425	124.7500		90	110		0.9272145	NT

Sample ID: CCB
Analysis Date: 05/29/15 13:38
Sequence: 43

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		338141.4			0.440	112	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6917.313			1.66	110	80	120	6265.890	
N	BISMUTH (NO HE)	209		188477.0			0.570	108	80	120	174092.8	
N	SCANDIUM	45		34524.07			1.10	113	80	120	30491.83	
N	GERMANIUM	72		23975.60			0.650	113	80	120	21201.24	
N	RHODIUM	103		322167.9			1.11	111	80	120	291010.8	
N	TELLURIUM	125		2046.830			4.11	122	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		3141.023			1.66	106	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	ALUMINUM	27		-0.001027173	-0.001027173	0.9991538
N	ANTIMONY	121		0.00005918400	0.00005918400	0.9990225
N	ARSENIC	75		-0.00002384900	-0.00002384900	0.9989971
N	BARIUM	137		-0.00002673000	-0.00002673000	0.9987916
N	BERYLLIUM	9		-0.000005873000	-0.000005873000	0.9990101
N	BORON	11		0.004604514	0.004604514	0.9989560
N	CADMIUM	111		0.000002744000	0.000002744000	0.9989989
N	CALCIUM	43		0.01779343	0.01779343	0.9992496
N	CHROMIUM	52		-0.0003240450	-0.0003240450	0.9989089
N	COBALT	59		-0.00001201300	-0.00001201300	0.9989117
N	COPPER	63		-0.00009550100	-0.00009550100	0.9989498
N	IRON	56		-0.001953249	-0.001953249	0.9989669
N	LEAD	208		0.00001162700	0.00001162700	0.9989934
N	MAGNESIUM	24		0.02275769	0.02275769	0.9989057
N	MANGANESE	55		-0.0001096540	-0.0001096540	0.9990983
N	MOLYBDENUM	95		0.00001363300	0.00001363300	0.9989786
N	NICKEL	60		-0.0002053020	-0.0002053020	0.9989501
N	POTASSIUM	39		0.01038855	0.01038855	0.9990583
N	SELENIUM	82		0.001927923	0.001927923	0.9987922
N	SELENIUM	78		-0.00006864300	-0.00006864300	0.9990875
N	SILVER	107		0.000008815000	0.000008815000	0.9989952
N	SODIUM	23		0.4909296	0.4909296	0.9990552
N	STRONTIUM	88		0.0004362290	0.0004362290	0.9989336
N	THALLIUM	205		0.000004691000	0.000004691000	0.9991087

Sample ID: CCB
Analysis Date: 05/29/15 13:38
Sequence: 43

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	THORIUM	232		0.05255668	0.05255668	0.9272145 NT
N	TIN	118		-0.000004328000	-0.000004328000	0.9989136
N	TITANIUM	47		0.00004546400	0.00004546400	0.9991894
N	URANIUM	238		0.000008299000	0.000008299000	0.9989302
N	VANADIUM	51		-0.00007278800	-0.00007278800	0.9989052
N	ZINC	66		-0.0006877320	-0.0006877320	0.9989143

Sample ID: L766918-01 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:41
Sequence: 44

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		299952.4			1.17	100	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5488.893			2.72	88	60	120	6265.890	
N	BISMUTH (NO HE)	209		150851.9			1.08	87	60	120	174092.8	
N	SCANDIUM	45		30047.55			0.670	99	60	120	30491.83	
N	GERMANIUM	72		21278.04			2.78	100	60	120	21201.24	
N	RHODIUM	103		268902.9			0.570	92	60	120	291010.8	
N	TELLURIUM	125		1478.980			5.97	88	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2453.887			0.180	83	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0002898369	0.0003220410	45.250	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.0009081847	0.001009094	8.51	5	-0.00500	J	0.9989971
N	BARIUM	137	mg/l	0.03802617	0.04225130	0.480	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00002550600	0.00002834000	27.620	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.00008600671	0.00009556300	19.640	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.001106074	0.001228971	8.13	5	-0.00500	J	0.9989089
N	COBALT	59	mg/l	0.0008348437	0.0009276040	4.91	5	-0.00500	J	0.9989117
N	COPPER	63	mg/l	0.001005661	0.001117401	17.990	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.00005568121	0.00006186800	62.940	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.1580135	0.1755705	2.78	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.002024212	0.002249124	15.10	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.005807413	0.006452681	54.790	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.008647643	0.009608491	5.54	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00002571570	0.00002857300	31.950	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00008513461	0.00009459400	24.60	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.001755910	0.001951011	2.25	5	-0.01250	J	0.9989052
N	ZINC	66	mg/l	0.003505877	0.003895418	16.410	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01644873	0.01827636	4.67	90			0.9991538
N	BORON	11		0.3240286	0.3600317	2.28	5			0.9989560
N	CALCIUM	43		534.4663	593.8514	0.850	450			0.9992496
N	IRON	56	mg/l	0.001288257	0.001431397	51.750	90	-2.5		0.9989669
N	MAGNESIUM	24		369.4243	410.4714	0.710	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.02053177	0.02281308	1.77	5	-0.01250		0.9989786
N	POTASSIUM	39		7.741278	8.601419	2.01	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766918-01 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:41
Sequence: 44

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		1463.227	1625.808	0.540	450			0.9990552
N	STRONTIUM	88		11.86286	13.18095	0.910	5			0.9989336
N	THORIUM	232		0.2673709	0.2970787	92.920				0.9272145
N	TIN	118	mg/l	0.0002108835	0.0002343150	14.760	2	-0.00500		0.9989136
N	TITANIUM	47		0.0001722969	0.0001914410	44.020	5			0.9991894
N	URANIUM	238		0.006990268	0.007766964	1.98	5			0.9989302

Sample ID: L766918-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:43
Sequence: 45

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		282299.8			0.830	94	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5070.953			1.32	81	60	120	6265.890	
N	BISMUTH (NO HE)	209		137541.0			0.770	79	60	120	174092.8	
N	SCANDIUM	45		29369.50			0.470	96	60	120	30491.83	
N	GERMANIUM	72		21255.79			3.20	100	60	120	21201.24	
N	RHODIUM	103		255120.9			0.830	88	60	120	291010.8	
N	TELLURIUM	125		1444.530			8.20	86	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2349.537			1.36	79	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003250080	0.0003611200	26.340	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.001125384	0.001250427	9.60	5	-0.00500	J	0.9989971
N	BARIUM	137	mg/l	0.04550188	0.05055764	1.36	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00002562210	0.00002846900	15.40	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001727676	0.0001919640	38.550	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	0.001175910	0.001306566	16.420	5	-0.00500	J	0.9989089
N	COBALT	59	mg/l	0.001207869	0.001342077	1.52	5	-0.00500	J	0.9989117
N	COPPER	63	mg/l	0.001092629	0.001214032	3.39	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0001386738	0.0001540820	13.710	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.1957495	0.2174994	1.56	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.002664862	0.002960958	7.14	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.01724504	0.01916115	9.72	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.01669249	0.01854721	6.49	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.000008776801	0.000009752000	66.50	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.0001042830	0.0001158700	31.880	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.001958827	0.002176474	3.46	5	-0.01250	J	0.9989052
N	ZINC	66	mg/l	0.009437545	0.01048616	11.810	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01613570	0.01792855	6.42	90			0.9991538
N	BORON	11		0.2735806	0.3039784	1.69	5			0.9989560
N	CALCIUM	43		685.3725	761.5249	0.590	450			0.9992496
N	IRON	56	mg/l	0.004258146	0.004731273	23.450	90	-2.5		0.9989669
N	MAGNESIUM	24		577.6212	641.8013	0.860	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.01316877	0.01463196	1.77	5	-0.01250		0.9989786
N	POTASSIUM	39		9.448723	10.49858	0.280	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766918-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:43
Sequence: 45

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		2306.503	2562.781	0.890	450			0.9990552
N	STRONTIUM	88		16.94918	18.83242	0.750	5			0.9989336
N	THORIUM	232		0.02400037	0.02666708	118.1100				0.9272145
N	TIN	118	mg/l	0.0003402639	0.0003780710	15.310	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0003437604	0.0003819560	5.22	5			0.9991894
N	URANIUM	238		0.008402270	0.009335855	2.89	5			0.9989302

Sample ID: L766918-05 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:46
Sequence: 46

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		294056.6			1.28	98	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5547.807			2.24	89	60	120	6265.890	
N	BISMUTH (NO HE)	209		153782.6			1.22	88	60	120	174092.8	
N	SCANDIUM	45		29476.38			1.04	97	60	120	30491.83	
N	GERMANIUM	72		22031.38			0.980	104	60	120	21201.24	
N	RHODIUM	103		272573.0			0.920	94	60	120	291010.8	
N	TELLURIUM	125		1651.220			7.98	98	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2613.587			1.12	88	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0005667301	0.0006297000	18.280	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.003329222	0.003699135	10.620	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.05294406	0.05882673	2.46	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00002871540	0.00003190600	51.880	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.00003799800	0.00004222000	11.330	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.000008436601	0.000009374000	208.4700	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.002054256	0.002282506	8.38	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.0005391919	0.0005991020	14.630	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0002022426	0.0002247140	45.040	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.3577829	0.3975365	1.74	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.002801787	0.003113096	6.52	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	-0.001207903	-0.001342114		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.0004656789	0.0005174210	11.630	5	-0.00500	J	0.9990875
N	SILVER	107	mg/l	0.000001305900	0.000001451000	626.3500	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00003794670	0.00004216300	33.050	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.008981875	0.009979860	4.03	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.001564332	0.001738147	7.29	5	-0.06250		0.9989143
N	ALUMINUM	27		0.01351073	0.01501192	4.22	90			0.9991538
N	BORON	11		0.1252435	0.1391594	3.01	5			0.9989560
N	CALCIUM	43		549.3312	610.3679	1.88	450			0.9992496
N	IRON	56	mg/l	0.01932411	0.02147123	4.26	90	-2.5	J	0.9989669
N	MAGNESIUM	24		130.5545	145.0605	1.01	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.01608242	0.01786935	2.85	5	-0.01250		0.9989786
N	POTASSIUM	39		9.584506	10.64945	1.69	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766918-05 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:46
Sequence: 46

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		77.28356	85.87061	0.960	450			0.9990552
N	STRONTIUM	88		10.43604	11.59560	0.980	5			0.9989336
N	THORIUM	232		0.05526077	0.06140085	117.5700				0.9272145
N	TIN	118	mg/l	0.0001442502	0.0001602780	74.780	2	-0.00500		0.9989136
N	TITANIUM	47		0.0001015029	0.0001127810	69.220	5			0.9991894
N	URANIUM	238		0.01529941	0.01699934	4.21	5			0.9989302

Sample ID: L766918-07 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:48
Sequence: 47

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		298167.8			2.71	99	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5524.467			3.82	88	60	120	6265.890	
N	BISMUTH (NO HE)	209		150393.4			2.54	86	60	120	174092.8	
N	SCANDIUM	45		31047.41			2.13	102	60	120	30491.83	
N	GERMANIUM	72		22525.48			1.84	106	60	120	21201.24	
N	RHODIUM	103		267662.9			1.08	92	60	120	291010.8	
N	TELLURIUM	125		1606.770			1.80	95	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2490.560			1.79	84	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0007844131	0.0008715700	15.310	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.005877293	0.006530325	4.33	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.03779166	0.04199073	2.48	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00001194840	0.00001327600	106.4400	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.00008181361	0.00009090400	53.620	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.00007847731	0.00008719700	145.9400	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.002578963	0.002865514	9.00	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.001768267	0.001964741	2.85	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.001194798	0.001327553	10.730	5	-0.00500	J	0.9989934
N	MANGANESE	55	mg/l	0.3824495	0.4249439	1.75	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.004602740	0.005114155	15.20	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.01951531	0.02168368	14.530	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.01962548	0.02180609	7.08	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00001664010	0.00001848900	36.950	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00005860261	0.00006511400	11.320	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.03248930	0.03609922	0.220	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.002458843	0.002732048	9.43	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01108026	0.01231140	11.570	90			0.9991538
N	BORON	11		0.9486703	1.054078	2.26	5			0.9989560
N	CALCIUM	43		722.0864	802.3181	1.54	450			0.9992496
N	IRON	56	mg/l	0.005058905	0.005621005	6.76	90	-2.5		0.9989669
N	MAGNESIUM	24		659.2531	732.5034	1.68	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.04600206	0.05111339	1.60	5	-0.01250		0.9989786
N	POTASSIUM	39		31.51561	35.01734	2.79	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L766918-07 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:48
Sequence: 47

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		1640.320	1822.578	1.41	450			0.9990552
N	STRONTIUM	88		16.45775	18.28639	2.00	5			0.9989336
N	THORIUM	232		0.2231267	0.2479185	19.710				0.9272145
N	TIN	118	mg/l	0.0002439270	0.0002710300	27.40	2	-0.00500		0.9989136
N	TITANIUM	47		0.0003448584	0.0003831760	45.960	5			0.9991894
N	URANIUM	238		0.08231484	0.09146092	2.34	5			0.9989302

Sample ID: L767115-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:51
Sequence: 48

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		310311.2			1.12	103	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5610.050			7.07	90	60	120	6265.890	
N	BISMUTH (NO HE)	209		146556.7			0.550	84	60	120	174092.8	
N	SCANDIUM	45		31124.27			1.03	102	60	120	30491.83	
N	GERMANIUM	72		24033.47			1.59	113	60	120	21201.24	
N	RHODIUM	103		271245.5			0.890	93	60	120	291010.8	
N	TELLURIUM	125		1512.313			2.81	90	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2575.243			1.37	87	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003011859	0.0003346510	36.870	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.03398420	0.03776022	3.13	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.04397986	0.04886651	4.21	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00004410900	0.00004901000	44.610	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001233504	0.0001370560	8.75	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	-0.0003060180	-0.0003400200		5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.01189178	0.01321309	0.780	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.0004283136	0.0004759040	14.890	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.00004288860	0.00004765400	36.160	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	1.866982	2.074424	1.50	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.007194279	0.007993642	6.55	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	-0.0002047869	-0.0002275410		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.001179861	0.001310956	9.85	5	-0.00500	J	0.9990875
N	SILVER	107	mg/l	0.000008464501	0.000009405000	62.30	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00007885891	0.00008762100	40.050	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.008006122	0.008895690	1.86	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.002467354	0.002741504	4.25	5	-0.06250	J	0.9989143
N	ALUMINUM	27		0.01181265	0.01312516	18.650	90			0.9991538
N	BORON	11		1.191622	1.324024	2.19	5			0.9989560
N	CALCIUM	43		862.5279	958.3642	0.850	450			0.9992496
N	IRON	56	mg/l	0.3201911	0.3557678	1.94	90	-2.5	J	0.9989669
N	MAGNESIUM	24		853.2737	948.0818	0.900	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.05083416	0.05648239	0.570	5	-0.01250		0.9989786
N	POTASSIUM	39		12.16556	13.51729	1.38	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L767115-03 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:51
Sequence: 48

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		2300.414	2556.015	0.240	450			0.9990552
N	STRONTIUM	88		18.22565	20.25072	1.83	5			0.9989336
N	THORIUM	232		0.1700383	0.1889314	40.90				0.9272145
N	TIN	118	mg/l	0.0003369807	0.0003744230	29.080	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0001611909	0.0001791010	79.380	5			0.9991894
N	URANIUM	238		0.08637126	0.09596806	0.750	5			0.9989302

Sample ID: L767115-04 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:53
Sequence: 49

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		301941.5			1.09	100	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5326.617			0.360	85	60	120	6265.890	
N	BISMUTH (NO HE)	209		142439.7			0.270	82	60	120	174092.8	
N	SCANDIUM	45		30313.70			2.95	99	60	120	30491.83	
N	GERMANIUM	72		23616.18			3.04	111	60	120	21201.24	
N	RHODIUM	103		256427.6			0.420	88	60	120	291010.8	
N	TELLURIUM	125		1592.327			1.51	95	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2401.543			2.77	81	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003090726	0.0003434140	25.410	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.03153871	0.03504301	2.73	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.04509754	0.05010837	1.46	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00003682800	0.00004092000	89.720	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001060119	0.0001177910	33.860	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	-0.0002319795	-0.0002577550		5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.01155732	0.01284147	3.34	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.0003428991	0.0003809990	9.06	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.00005017861	0.00005575400	62.120	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	1.773721	1.970801	3.12	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.007313406	0.008126006	7.52	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	-0.003622601	-0.004025112		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.001231155	0.001367950	12.260	5	-0.00500	J	0.9990875
N	SILVER	107	mg/l	0.000004165200	0.000004628000	135.3900	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00006080851	0.00006756500	33.640	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.007785095	0.008650105	0.530	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.002121578	0.002357309	10.130	5	-0.06250		0.9989143
N	ALUMINUM	27		0.01326446	0.01473829	22.050	90			0.9991538
N	BORON	11		1.192515	1.325017	2.19	5			0.9989560
N	CALCIUM	43		854.4948	949.4386	4.10	450			0.9992496
N	IRON	56	mg/l	0.3240666	0.3600740	3.85	90	-2.5	J	0.9989669
N	MAGNESIUM	24		831.3544	923.7270	3.57	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.05082121	0.05646801	0.920	5	-0.01250		0.9989786
N	POTASSIUM	39		12.12424	13.47138	4.04	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L767115-04 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:53
Sequence: 49

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		2257.267	2508.074	3.20	450			0.9990552
N	STRONTIUM	88		18.28121	20.31245	0.460	5			0.9989336
N	THORIUM	232		0.1619361	0.1799290	17.220				0.9272145
N	TIN	118	mg/l	0.0002907207	0.0003230230	41.630	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0001704861	0.0001894290	74.70	5			0.9991894
N	URANIUM	238		0.08257272	0.09174746	0.130	5			0.9989302

Sample ID: L767115-06 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:55
Sequence: 50

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		288948.3			0.360	96	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5042.053			3.08	80	60	120	6265.890	
N	BISMUTH (NO HE)	209		132584.1			0.900	76	60	120	174092.8	
N	SCANDIUM	45		29161.32			2.03	96	60	120	30491.83	
N	GERMANIUM	72		23103.05			0.790	109	60	120	21201.24	
N	RHODIUM	103		246481.7			1.22	85	60	120	291010.8	
N	TELLURIUM	125		1505.647			8.33	89	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2317.530			1.37	78	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0003937239	0.0004374710	22.510	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.002262109	0.002513454	10.810	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.05420882	0.06023202	1.30	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.000003073500	0.000003415000	133.4400	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001862595	0.0002069550	29.740	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	-0.00001058220	-0.00001175800		5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.002683256	0.002981395	5.33	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.0008774740	0.0009749710	16.490	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0001927143	0.0002141270	36.080	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5296811	0.5885345	1.03	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.007053407	0.007837118	4.88	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	-0.003930101	-0.004366778		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.006296661	0.006996289	2.23	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00002512440	0.00002791600	26.080	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.00009629731	0.0001069970	40.560	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.006810903	0.007567669	1.77	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.0007060204	0.0007844670	25.010	5	-0.06250		0.9989143
N	ALUMINUM	27		0.01212685	0.01347428	0.760	90			0.9991538
N	BORON	11		0.4758480	0.5287199	0.640	5			0.9989560
N	CALCIUM	43		858.9657	954.4062	1.06	450			0.9992496
N	IRON	56	mg/l	0.006775739	0.007528598	0.560	90	-2.5		0.9989669
N	MAGNESIUM	24		736.9583	818.8425	2.03	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.03506689	0.03896321	1.43	5	-0.01250		0.9989786
N	POTASSIUM	39		13.09724	14.55249	2.16	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L767115-06 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:55
Sequence: 50

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		3192.155	3546.838	2.59	450			0.9990552
N	STRONTIUM	88		20.14905	22.38783	1.47	5			0.9989336
N	THORIUM	232		0.1801735	0.2001928	69.770				0.9272145
N	TIN	118	mg/l	0.0002700216	0.0003000240	29.60	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0001029744	0.0001144160	132.7800	5			0.9991894
N	URANIUM	238		0.05003576	0.05559528	1.53	5			0.9989302

Sample ID: MS DF: 1x Ref Sample ID: L767115-06 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:57 Standard ID:
Sequence: 51

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		290128.2			1.74	96	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5075.397			1.78	81	60	120	6265.890	
N	BISMUTH (NO HE)	209		131688.1			0.710	76	60	120	174092.8	
N	SCANDIUM	45		30373.77			1.88	100	60	120	30491.83	
N	GERMANIUM	72		23664.00			3.17	112	60	120	21201.24	
N	RHODIUM	103		252422.7			1.44	87	60	120	291010.8	
N	TELLURIUM	125		1586.767			2.13	94	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2416.213			1.22	81	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.05292560	0.05880622	0.0004374710	2.00	117	75	125	0.05	1	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.05156773	0.05729747	0.002513454	1.28	110	75	125	0.05	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.1033925	0.1148805	0.06023202	2.63	109	75	125	0.05	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.04001959	0.04446621	0.000003415000	1.25	89	75	125	0.05	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.04607719	0.05119687	0.0002069550	2.36	102	75	125	0.05	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.03979421	0.04421579	-0.00001175800	1.19	88	75	125	0.05	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.04179464	0.04643848	0.002981395	2.86	87	75	125	0.05	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.03903227	0.04336919	0.0009749710	2.96	85	75	125	0.05	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.04836136	0.05373484	0.0002141270	1.02	107	75	125	0.05	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5705865	0.6339849	0.5885345	0.910	91	75	125	0.05	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.04678641	0.05198490	0.007837118	1.83	88	75	125	0.05	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.04876869	0.05418743	-0.004366778	4.97	108	75	125	0.05	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.05561468	0.06179408	0.006996289	1.56	110	75	125	0.05	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.04626000	0.05139999	0.00002791600	0.750	103	75	125	0.05	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.04794395	0.05327105	0.0001069970	1.26	106	75	125	0.05	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.04873509	0.05415009	0.007567669	1.36	93	75	125	0.05	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.03657537	0.04063930	0.0007844670	2.01	80	75	125	0.05	5	-0.06250		0.9989143
N	ALUMINUM	27	mg/l	4.501578	5.001753	0.01347428	1.26	100	75	125	5	90	-0.01250		0.9991538
N	BORON	11	mg/l	0.4998803	0.5554225	0.5287199	0.650	53	75	125	0.05	5	-0.050	V	0.9989560
N	CALCIUM	43	mg/l	852.6280	947.3644	954.406200	2.14	0	75	125	5	450	-2.5	V	0.9992496
N	IRON	56	mg/l	3.980795	4.423105	0.007528598	2.48	88	75	125	5	90	-0.250		0.9989669
N	MAGNESIUM	24	mg/l	730.4564	811.6181	818.842500	1.27	0	75	125	5	450	-2.5	V	0.9989057
N	MOLYBDENUM	95	mg/l	0.08617216	0.09574684	0.03896321	1.82	114	75	125	0.05	5	-0.01250		0.9989786
N	POTASSIUM	39	mg/l	17.59577	19.55085	14.552490	2.39	100	75	125	5	90	-2.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L767115-06 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 13:57 Standard ID:
Sequence: 51

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	3176.322	3529.246	3546.838000	1.64	0	75	125	5	450	-2.5	V	0.9990552
N	STRONTIUM	88	mg/l	20.45544	22.72826	22.387830	0.510	681	75	125	0.05	5	-0.025	V	0.9989336
N	THORIUM	232		1085.324	1205.915	0.2001928	0.970								0.9272145
N	TIN	118	mg/l	0.04828644	0.05365160	0.0003000240	1.16	107	75	125	0.05	2	-0.00500		0.9989136
N	TITANIUM	47	mg/l	0.04814627	0.05349585	0.0001144160	0.270	107	75	125	0.05	5	-0.025		0.9991894
N	URANIUM	238	mg/l	0.1006430	0.1118255	0.05559528	1.63	112	75	125	0.05	5	-0.025		0.9989302

Sample ID: MSD DF: 1x Ref Sample ID: L767115-06 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 14:00 Standard ID:
Sequence: 52

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		284053.4			1.34	94	60	120	301366.9	
N	TELLURIUM (NO HE)	125		4817.527			2.71	77	60	120	6265.890	
N	BISMUTH (NO HE)	209		127198.3			1.17	73	60	120	174092.8	
N	SCANDIUM	45		29449.66			0.320	97	60	120	30491.83	
N	GERMANIUM	72		23276.70			0.750	110	60	120	21201.24	
N	RHODIUM	103		246236.9			2.05	85	60	120	291010.8	
N	TELLURIUM	125		1483.420			5.09	88	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2211.183			1.74	74	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	RPD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.05449942	0.06055491	0.05880622	3.15	120	75	125	0.05	3	1	-0.00500		0.9990225
N	ARSENIC	75	mg/l	0.05376069	0.05973409	0.05729747	6.14	114	75	125	0.05	4	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.1022637	0.1136263	0.1148805	1.48	107	75	125	0.05	1	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.04085896	0.04539884	0.04446621	1.28	91	75	125	0.05	2	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.04819754	0.05355282	0.05119687	7.88	107	75	125	0.05	4	5	-0.00250		0.9989989
N	CHROMIUM	52	mg/l	0.04005278	0.04450308	0.04421579	0.580	89	75	125	0.05	1	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.04188061	0.04653401	0.04643848	0.540	87	75	125	0.05	0	5	-0.00500		0.9989117
N	COPPER	63	mg/l	0.03951744	0.04390826	0.04336919	1.98	86	75	125	0.05	1	5	-0.01250		0.9989498
N	LEAD	208	mg/l	0.04854475	0.05393861	0.05373484	2.10	107	75	125	0.05	0	5	-0.00500		0.9989934
N	MANGANESE	55	mg/l	0.5664802	0.6294224	0.6339849	0.450	82	75	125	0.05	1	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.04667148	0.05185720	0.05198490	3.14	88	75	125	0.05	0	5	-0.00500		0.9989501
N	SELENIUM	82	mg/l	0.04869524	0.05410582	0.05418743	5.32	108	75	125	0.05	0	5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.05713238	0.06348042	0.06179408	1.01	113	75	125	0.05	3	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.04607600	0.05119555	0.05139999	1.72	102	75	125	0.05	0	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.04917977	0.05464418	0.05327105	2.03	109	75	125	0.05	3	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.04829705	0.05366338	0.05415009	0.600	92	75	125	0.05	1	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.03798383	0.04220425	0.04063930	2.32	83	75	125	0.05	4	5	-0.06250		0.9989143
N	ALUMINUM	27	mg/l	4.594802	5.105335	5.001753	0.120	102	75	125	5	2	90	-0.01250		0.9991538
N	BORON	11	mg/l	0.4932306	0.5480339	0.5554225	1.28	39	75	125	0.05	1	5	-0.050	V	0.9989560
N	CALCIUM	43	mg/l	860.4106	956.0117	947.364400	0.320	32	75	125	5	1	450	-2.5	V	0.9992496
N	IRON	56	mg/l	3.940599	4.378443	4.423105	1.52	87	75	125	5	1	90	-0.250		0.9989669
N	MAGNESIUM	24	mg/l	739.4119	821.5687	811.618100	0.910	55	75	125	5	1	450	-2.5	V	0.9989057
N	MOLYBDENUM	95	mg/l	0.08705135	0.09672371	0.09574684	0.920	116	75	125	0.05	1	5	-0.01250		0.9989786
N	POTASSIUM	39	mg/l	17.74936	19.72151	19.550850	1.18	103	75	125	5	1	90	-2.5		0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L767115-06 Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 14:00 Standard ID:
Sequence: 52

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	Reference Result	RSD	%Rec	LL	HL	TV	RPD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23	mg/l	3222.485	3580.538	3529.246000	0.350	674	75	125	5	1	450	-2.5	V	0.9990552
N	STRONTIUM	88	mg/l	20.40186	22.66873	22.728260	1.76	562	75	125	0.05	0	5	-0.025	V	0.9989336
N	THORIUM	232		1086.269	1206.965	1205.915000	1.30					0				0.9272145
N	TIN	118	mg/l	0.05117904	0.05686559	0.05365160	4.12	113	75	125	0.05	6	2	-0.00500		0.9989136
N	TITANIUM	47	mg/l	0.04927779	0.05475309	0.05349585	3.43	109	75	125	0.05	2	5	-0.025		0.9991894
N	URANIUM	238	mg/l	0.1008199	0.1120221	0.1118255	0.500	113	75	125	0.05	0	5	-0.025		0.9989302

Sample ID: L767115-08 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 14:02
Sequence: 53

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		290803.7			0.540	96	60	120	301366.9	
N	TELLURIUM (NO HE)	125		5067.620			2.22	81	60	120	6265.890	
N	BISMUTH (NO HE)	209		129567.6			0.920	74	60	120	174092.8	
N	SCANDIUM	45		29887.22			1.45	98	60	120	30491.83	
N	GERMANIUM	72		24214.92			4.13	114	60	120	21201.24	
N	RHODIUM	103		247131.0			0.770	85	60	120	291010.8	
N	TELLURIUM	125		1543.430			7.16	92	60	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2230.517			2.55	75	60	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	ANTIMONY	121	mg/l	0.0002430765	0.0002700850	6.09	1	-0.00500	J	0.9990225
N	ARSENIC	75	mg/l	0.006270807	0.006967563	7.85	5	-0.00500		0.9989971
N	BARIUM	137	mg/l	0.05597781	0.06219756	3.51	2	-0.01250		0.9987916
N	BERYLLIUM	9	mg/l	0.00001255050	0.00001394500	115.2400	5	-0.00500		0.9990101
N	CADMIUM	111	mg/l	0.0001547226	0.0001719140	15.650	5	-0.00250	J	0.9989989
N	CHROMIUM	52	mg/l	0.0003400407	0.0003778230	29.50	5	-0.00500		0.9989089
N	COBALT	59	mg/l	0.0006345847	0.0007050940	25.820	5	-0.00500	J	0.9989117
N	COPPER	63	mg/l	0.0008073181	0.0008970200	18.610	5	-0.01250	J	0.9989498
N	LEAD	208	mg/l	0.0002457702	0.0002730780	8.61	5	-0.00500	J	0.9989934
N	MANGANESE	55	mg/l	0.1155255	0.1283617	3.76	5	-0.01250		0.9990983
N	NICKEL	60	mg/l	0.001719094	0.001910104	10.010	5	-0.00500	J	0.9989501
N	SELENIUM	82	mg/l	-0.003974741	-0.004416379		5	-0.00500		0.9987922
N	SELENIUM	78	mg/l	0.009829513	0.01092168	5.04	5	-0.00500		0.9990875
N	SILVER	107	mg/l	0.00007664311	0.00008515900	12.710	1	-0.00500		0.9989952
N	THALLIUM	205	mg/l	0.0001340631	0.0001489590	27.590	5	-0.00500		0.9991087
N	VANADIUM	51	mg/l	0.01553586	0.01726207	5.59	5	-0.01250		0.9989052
N	ZINC	66	mg/l	0.0007950034	0.0008833370	4.14	5	-0.06250		0.9989143
N	ALUMINUM	27		0.01246878	0.01385420	21.880	90			0.9991538
N	BORON	11		0.3604919	0.4005465	1.85	5			0.9989560
N	CALCIUM	43		1004.221	1115.801	1.29	450			0.9992496
N	IRON	56	mg/l	0.009504091	0.01056010	12.710	90	-2.5		0.9989669
N	MAGNESIUM	24		916.4323	1018.258	2.28	450			0.9989057
N	MOLYBDENUM	95	mg/l	0.02890205	0.03211339	1.19	5	-0.01250		0.9989786
N	POTASSIUM	39		16.83649	18.70721	0.900	90			0.9990583

Rows shaded in gray for client and prep QC samples indicate products/parameters that were not ordered.

Sample ID: L767115-08 DF: 1x Workgroup: WG791888 Report Type: MDL
Analysis Date: 05/29/15 14:02
Sequence: 53

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	LDR	-2.5RL	Qual	CorCoef
N	SODIUM	23		3621.870	4024.300	1.87	450			0.9990552
N	STRONTIUM	88		23.26638	25.85153	0.470	5			0.9989336
N	THORIUM	232		1.484713	1.649681	18.420				0.9272145
N	TIN	118	mg/l	0.0004163085	0.0004625650	9.15	2	-0.00500	J	0.9989136
N	TITANIUM	47		0.0001657476	0.0001841640	86.470	5			0.9991894
N	URANIUM	238		0.03423971	0.03804412	0.160	5			0.9989302

Sample ID: CCV
Analysis Date: 05/29/15 14:04 Standard ID: 15D23552
Sequence: 54

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		325864.4			1.35	108	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6407.070			2.94	102	80	120	6265.890	
N	BISMUTH (NO HE)	209		161537.9			0.370	93	80	120	174092.8	
N	SCANDIUM	45		33419.31			1.57	110	80	120	30491.83	
N	GERMANIUM	72		22761.39			1.30	107	80	120	21201.24	
N	RHODIUM	103		297016.1			0.850	102	80	120	291010.8	
N	TELLURIUM	125		1894.587			4.63	112	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2862.300			3.75	96	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	ALUMINUM	27		1.047668	1.047668	1.90	105	90	110	1	0.9991538	
N	ANTIMONY	121		0.1075555	0.1075555	1.37	108	90	110	0.10	0.9990225	
N	ARSENIC	75		0.1053512	0.1053512	4.58	105	90	110	0.10	0.9989971	
N	BARIUM	137		0.1075201	0.1075201	1.57	108	90	110	0.10	0.9987916	
N	BERYLLIUM	9		0.09710417	0.09710417	1.63	97	90	110	0.10	0.9990101	
N	BORON	11		0.1103035	0.1103035	2.38	110	90	110	0.10	0.9989560	
N	CADMIUM	111		0.1045801	0.1045801	4.32	105	90	110	0.10	0.9989989	
N	CALCIUM	43		10.23772	10.23772	1.82	102	90	110	10	0.9992496	
N	CHROMIUM	52		0.1060235	0.1060235	1.80	106	90	110	0.10	0.9989089	
N	COBALT	59		0.1053025	0.1053025	1.96	105	90	110	0.10	0.9989117	
N	COPPER	63		0.1054532	0.1054532	1.41	105	90	110	0.10	0.9989498	
N	IRON	56		1.052154	1.052154	1.50	105	90	110	1	0.9989669	
N	LEAD	208		0.1089544	0.1089544	0.620	109	90	110	0.10	0.9989934	
N	MAGNESIUM	24		10.29599	10.29599	2.23	103	90	110	10	0.9989057	
N	MANGANESE	55		0.1070579	0.1070579	1.51	107	90	110	0.10	0.9990983	
N	MOLYBDENUM	95		0.1076279	0.1076279	1.16	108	90	110	0.10	0.9989786	
N	NICKEL	60		0.1067777	0.1067777	2.31	107	90	110	0.10	0.9989501	
N	POTASSIUM	39		10.89495	10.89495	2.95	109	90	110	10	0.9990583	
N	SELENIUM	82		0.1034384	0.1034384	3.40	103	90	110	0.10	0.9987922	
N	SELENIUM	78		0.1058560	0.1058560	3.18	106	90	110	0.10	0.9990875	
N	SILVER	107		0.1072551	0.1072551	0.510	107	90	110	0.10	0.9989952	
N	SODIUM	23		13.34074	13.34074	0.290	133	90	110	10	0.9990552	NT
N	STRONTIUM	88		0.1123128	0.1123128	0.450	112	90	110	0.10	0.9989336	NT
N	THALLIUM	205		0.1075114	0.1075114	1.39	108	90	110	0.10	0.9991087	

Sample ID: CCV
Analysis Date: 05/29/15 14:04 Standard ID: 15D23552
Sequence: 54

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	TIN	118		0.1078114	0.1078114	1.05	108	90	110	0.10	0.9989136	
N	TITANIUM	47		0.1056410	0.1056410	2.70	106	90	110	0.10	0.9991894	
N	URANIUM	238		0.1054442	0.1054442	1.40	105	90	110	0.10	0.9989302	
N	VANADIUM	51		0.1067582	0.1067582	0.420	107	90	110	0.10	0.9989052	
N	ZINC	66		0.1070311	0.1070311	0.550	107	90	110	0.10	0.9989143	
N	THORIUM	232		0.2294084	0.2294084	10.880		90	110		0.9272145	NT

Sample ID: CCB
Analysis Date: 05/29/15 14:06
Sequence: 55

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		315922.4			1.07	105	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6307.030			2.87	101	80	120	6265.890	
N	BISMUTH (NO HE)	209		165387.6			2.13	95	80	120	174092.8	
N	SCANDIUM	45		32209.88			1.28	106	80	120	30491.83	
N	GERMANIUM	72		22236.16			1.79	105	80	120	21201.24	
N	RHODIUM	103		294900.3			0.640	101	80	120	291010.8	
N	TELLURIUM	125		1846.803			2.36	110	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2867.300			0.490	96	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	ALUMINUM	27		-0.0003863390	-0.0003863390	0.9991538
N	ANTIMONY	121		0.0002073660	0.0002073660	0.9990225
N	ARSENIC	75		0.00003938300	0.00003938300	0.9989971
N	BARIUM	137		0.00003574200	0.00003574200	0.9987916
N	BERYLLIUM	9		0.00002559900	0.00002559900	0.9990101
N	BORON	11		0.02448027	0.02448027	0.9989560
N	CADMIUM	111		0.00001660800	0.00001660800	0.9989989
N	CALCIUM	43		0.07826567	0.07826567	0.9992496
N	CHROMIUM	52		-0.00009471700	-0.00009471700	0.9989089
N	COBALT	59		-0.000003424000	-0.000003424000	0.9989117
N	COPPER	63		-0.00009162200	-0.00009162200	0.9989498
N	IRON	56		-0.0006769000	-0.0006769000	0.9989669
N	LEAD	208		0.00004388400	0.00004388400	0.9989934
N	MAGNESIUM	24		0.08392761	0.08392761	0.9989057
N	MANGANESE	55		-0.00007830700	-0.00007830700	0.9990983
N	MOLYBDENUM	95		0.00003725200	0.00003725200	0.9989786
N	NICKEL	60		-0.0002559010	-0.0002559010	0.9989501
N	POTASSIUM	39		0.06072368	0.06072368	0.9990583
N	SELENIUM	82		-0.003322207	-0.003322207	0.9987922
N	SELENIUM	78		0.00002417900	0.00002417900	0.9990875
N	SILVER	107		0.0001113980	0.0001113980	0.9989952
N	SODIUM	23		2.099706	2.099706	0.9990552
N	STRONTIUM	88		0.001654854	0.001654854	0.9989336
N	THALLIUM	205		0.00008623400	0.00008623400	0.9991087

Sample ID: CCB
Analysis Date: 05/29/15 14:06
Sequence: 55

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	CorCoef
N	THORIUM	232		0.04596434	0.04596434	0.9272145 NT
N	TIN	118		0.00002910800	0.00002910800	0.9989136
N	TITANIUM	47		0.00002646000	0.00002646000	0.9991894
N	URANIUM	238		0.00002062500	0.00002062500	0.9989302
N	VANADIUM	51		-0.00001878400	-0.00001878400	0.9989052
N	ZINC	66		-0.0006753320	-0.0006753320	0.9989143

Sample ID: ICSA-2
Analysis Date: 05/29/15 14:09 Standard ID: 15D27682
Sequence: 56

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		315298.1			1.54	105	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6156.947			0.240	98	80	120	6265.890	
N	BISMUTH (NO HE)	209		158807.9			0.770	91	80	120	174092.8	
N	SCANDIUM	45		32116.38			0.340	105	80	120	30491.83	
N	GERMANIUM	72		22066.99			0.580	104	80	120	21201.24	
N	RHODIUM	103		280753.9			0.540	96	80	120	291010.8	
N	TELLURIUM	125		1790.127			3.23	106	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		2771.947			2.97	93	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		104.5998	104.5998	0.830	105	80	120	100	0.9991538
N	ANTIMONY	121		0.0002260720	0.0002260720	24.230				0	0.9990225
N	ARSENIC	75		0.0001618090	0.0001618090	24.760				0	0.9989971
N	BARIUM	137		0.0004139110	0.0004139110	4.90				0	0.9987916
N	BERYLLIUM	9		0.00005398900	0.00005398900	58.960				0	0.9990101
N	BORON	11		0.02302750	0.02302750	6.69				0	0.9989560
N	CADMIUM	111		0.0004063410	0.0004063410	13.110				0	0.9989989
N	CALCIUM	43		100.6783	100.6783	0.720	101	80	120	100	0.9992496
N	CHROMIUM	52		0.001139579	0.001139579	16.830				0	0.9989089
N	COBALT	59		0.00002821600	0.00002821600	18.980				0	0.9989117
N	COPPER	63		0.0007519200	0.0007519200	1.08				0	0.9989498
N	IRON	56		100.3807	100.3807	1.25	100	80	120	100	0.9989669
N	LEAD	208		0.0004021000	0.0004021000	12.520				0	0.9989934
N	MAGNESIUM	24		98.95377	98.95377	1.18	99	80	120	100	0.9989057
N	MANGANESE	55		0.0007486040	0.0007486040	14.140				0	0.9990983
N	MOLYBDENUM	95		2.154189	2.154189	0.460	108	80	120	2	0.9989786
N	NICKEL	60		0.0005102490	0.0005102490	30.480				0	0.9989501
N	POTASSIUM	39		101.1684	101.1684	0.780	101	80	120	100	0.9990583
N	SELENIUM	82		-0.002505255	-0.002505255					0	0.9987922
N	SELENIUM	78		0.00006481500	0.00006481500	70.490				0	0.9990875
N	SILVER	107		0.0001444640	0.0001444640	16.450				0	0.9989952
N	SODIUM	23		100.1454	100.1454	0.250	100	80	120	100	0.9990552
N	STRONTIUM	88		0.003010953	0.003010953	9.41				0	0.9989336
N	THALLIUM	205		0.00004831500	0.00004831500	46.530				0	0.9991087

Sample ID: ICSA-2
Analysis Date: 05/29/15 14:09 Standard ID: 15D27682
Sequence: 56

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	THORIUM	232		0.4043112	0.4043112	26.00				0	0.9272145 NT
N	TIN	118		0.0001255200	0.0001255200	33.420				0	0.9989136
N	TITANIUM	47		2.047389	2.047389	0.700	102	80	120	2	0.9991894
N	URANIUM	238		0.00001257600	0.00001257600	89.390				0	0.9989302
N	VANADIUM	51		0.00005519700	0.00005519700	58.450				0	0.9989052
N	ZINC	66		0.002564455	0.002564455	9.40				0	0.9989143

Sample ID: ICSAB-2
Analysis Date: 05/29/15 14:11 Standard ID: 15D27683
Sequence: 57

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SCANDIUM (NO HE)	45		355292.8			0.800	118	80	120	301366.9	
N	TELLURIUM (NO HE)	125		6481.540			3.65	103	80	120	6265.890	
N	BISMUTH (NO HE)	209		164656.1			0.410	95	80	120	174092.8	
N	SCANDIUM	45		36713.83			2.00	120	80	120	30491.83	
N	GERMANIUM	72		25139.83			1.69	119	80	120	21201.24	
N	RHODIUM	103		310829.3			1.14	107	80	120	291010.8	
N	TELLURIUM	125		2117.950			5.37	126	80	120	1684.557	
N	TELLURIUM (HIGH HE)	125		3065.673			1.79	103	80	120	2973.660	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	ALUMINUM	27		105.1466	105.1466	0.580	105	80	120	100	0.9991538
N	ANTIMONY	121		0.02352252	0.02352252	3.58	118	80	120	0.02	0.9990225
N	ARSENIC	75		0.01989316	0.01989316	7.75	99	80	120	0.02	0.9989971
N	BARIUM	137		0.02289032	0.02289032	4.09	114	80	120	0.02	0.9987916
N	BERYLLIUM	9		0.01889995	0.01889995	0.990	94	80	120	0.02	0.9990101
N	BORON	11		0.03826736	0.03826736	4.25				0	0.9989560
N	CADMIUM	111		0.01978374	0.01978374	8.11	99	80	120	0.02	0.9989989
N	CALCIUM	43		99.81368	99.81368	0.320	100	80	120	100	0.9992496
N	CHROMIUM	52		0.02082649	0.02082649	1.66	104	80	120	0.02	0.9989089
N	COBALT	59		0.01964681	0.01964681	1.59	98	80	120	0.02	0.9989117
N	COPPER	63		0.02025598	0.02025598	1.36	101	80	120	0.02	0.9989498
N	IRON	56		97.74028	97.74028	1.46	98	80	120	100	0.9989669
N	LEAD	208		0.02076108	0.02076108	2.59	104	80	120	0.02	0.9989934
N	MAGNESIUM	24		98.21027	98.21027	1.35	98	80	120	100	0.9989057
N	MANGANESE	55		0.02089984	0.02089984	2.98	104	80	120	0.02	0.9990983
N	MOLYBDENUM	95		2.126753	2.126753	0.670	106	80	120	2	0.9989786
N	NICKEL	60		0.01968655	0.01968655	1.73	98	80	120	0.02	0.9989501
N	POTASSIUM	39		102.0080	102.0080	0.890	102	80	120	100	0.9990583
N	SELENIUM	82		0.02261451	0.02261451	15.780	113	80	120	0.02	0.9987922
N	SELENIUM	78		0.02103593	0.02103593	2.27	105	80	120	0.02	0.9990875
N	SILVER	107		0.02063529	0.02063529	0.150	103	80	120	0.02	0.9989952
N	SODIUM	23		100.1336	100.1336	0.690	100	80	120	100	0.9990552
N	STRONTIUM	88		0.02548403	0.02548403	1.84				0	0.9989336
N	THALLIUM	205		0.02026752	0.02026752	1.79	101	80	120	0.02	0.9991087

Sample ID: ICSAB-2
Analysis Date: 05/29/15 14:11 Standard ID: 15D27683
Sequence: 57

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
N	THORIUM	232		440.9227	440.9227	0.840				0	0.9272145	NT
N	TIN	118		0.02242609	0.02242609	0.0800	112	80	120	0.02	0.9989136	
N	TITANIUM	47		2.030136	2.030136	1.23	102	80	120	2	0.9991894	
N	URANIUM	238		0.02011968	0.02011968	2.46				0	0.9989302	
N	VANADIUM	51		0.02037023	0.02037023	1.43	102	80	120	0.02	0.9989052	
N	ZINC	66		0.02147395	0.02147395	5.70	107	80	120	0.02	0.9989143	

Volatile Organic Compounds by Method 8260B

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Est. 1970

Quality Control Summary
SDG: L767115

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Workgroup: **WG791367**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L767115-01 1x	05/21/2015	06/02/2015
L767115-02 1x	05/21/2015	06/02/2015
L767115-05 1x	05/21/2015	06/02/2015
L767115-07 1x	05/21/2015	06/02/2015
L767115-09 1x	05/21/2015	06/02/2015
L767115-11 1x	05/21/2015	06/02/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Workgroup: **WG793150**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L767115-01 1x	05/21/2015	06/04/2015
L767115-02 1x	05/21/2015	06/04/2015
L767115-05 1x	05/21/2015	06/04/2015

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS7	LCS WG791367	LCS WG791367	0601_34.D	6/1/2015	11:12 PM
VOCMS7	Blank WG791367	Blank WG791367	0601_36.D	6/1/2015	11:50 PM
VOCMS7	LCSD WG791367	LCSD WG791367	0601_37.D	6/2/2015	12:10 AM
VOCMS7	MS WG791367	MS WG791367	0601_38.D	6/2/2015	12:29 AM
VOCMS7	MSD WG791367	MSD WG791367	0601_39.D	6/2/2015	12:48 AM
VOCMS7	MS WG791367	MS WG791367	0601_40.D	6/2/2015	1:08 AM
VOCMS7	MSD WG791367	MSD WG791367	0601_41.D	6/2/2015	1:27 AM
VOCMS7	H-SS059-MW50-NT01	L767115-09	0601_44.D	6/2/2015	2:25 AM
VOCMS7	H-TUQC-TRIPBLANK-TT02	L767115-11	0601_45.D	6/2/2015	2:44 AM
VOCMS7	H-SS059-MW51-NT01	L767115-07	0601_46.D	6/2/2015	3:04 AM
VOCMS7	H-SS059-FIELDBLANK-FT01	L767115-01	0601_53.D	6/2/2015	5:19 AM
VOCMS7	H-SS059-MW52-DT01	L767115-02	0601_54.D	6/2/2015	5:39 AM
VOCMS7	H-SS059-MW52-NT01	L767115-05	0601_55.D	6/2/2015	5:58 AM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS18	Blank WG793150	Blank WG793150	0603_38.D	6/3/2015	10:10 PM
VOCMS18	LCS WG793150	LCS WG793150	0603_45.D	6/4/2015	12:30 AM
VOCMS18	LCSD WG793150	LCSD WG793150	0603_46.D	6/4/2015	12:50 AM
VOCMS18	MS WG793150	MS WG793150	0603_47.D	6/4/2015	1:10 AM
VOCMS18	MSD WG793150	MSD WG793150	0603_48.D	6/4/2015	1:30 AM
VOCMS18	H-SS059-FIELDBLANK-FT01	L767115-01	0603_63.D	6/4/2015	6:58 AM
VOCMS18	H-SS059-MW52-DT01	L767115-02	0603_64.D	6/4/2015	7:18 AM
VOCMS18	H-SS059-MW52-NT01	L767115-05	0603_65.D	6/4/2015	7:38 AM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

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	0.000332	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	0.000377	
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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

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	< 0.000355	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0277	111	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0282	113	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0238	95.2	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0249	99.6	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0260	104	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0315	126	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0262	105	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0243	97.4	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0262	105	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0250	99.8	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0260	104	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0239	95.8	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0254	101	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0262	105	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0285	114	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0244	97.5	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0264	105	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0255	102	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0263	105	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0251	101	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0262	105	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1113	89	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0245	98.1	76.4 - 125	
2-Hexanone	1	0.125	0.1203	96.3	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0263	105	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1206	96.5	63.3 - 138	
Acetone	1	0.125	0.1457	117	28.7 - 175	
Benzene	1	0.025	0.0234	93.8	73 - 122	
Bromobenzene	1	0.025	0.0269	108	81.5 - 115	
Bromochloromethane	1	0.025	0.0244	97.6	78.9 - 123	
Bromodichloromethane	1	0.025	0.0268	107	75.5 - 121	
Bromoform	1	0.025	0.0262	105	71.5 - 131	
Bromomethane	1	0.025	0.0287	115	22.4 - 187	
Carbon disulfide	1	0.025	0.0287	115	53 - 134	
Carbon tetrachloride	1	0.025	0.0286	114	70.9 - 129	
Chlorobenzene	1	0.025	0.0259	104	79.7 - 122	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0272	109	78.2 - 124	
Chloroethane	1	0.025	0.0340	136	41.2 - 153	
Chloroform	1	0.025	0.0260	104	73.2 - 125	
Chloromethane	1	0.025	0.0229	91.7	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0227	90.9	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0256	102	77.7 - 124	
Dibromomethane	1	0.025	0.0256	102	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0268	107	56 - 134	
Ethylbenzene	1	0.025	0.0255	102	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0264	106	73.7 - 133	
Isopropylbenzene	1	0.025	0.0273	109	81.6 - 124	
m&p-Xylenes	1	0.05	0.0523	105	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0281	112	70.1 - 125	
Methylene Chloride	1	0.025	0.0287	115	69.5 - 120	
Naphthalene	1	0.025	0.0228	91.1	69.7 - 134	
n-Butylbenzene	1	0.025	0.0261	104	75.9 - 134	
n-Propylbenzene	1	0.025	0.0275	110	81.9 - 122	
o-Xylene	1	0.025	0.0263	105	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0262	105	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0258	103	80.6 - 126	
Styrene	1	0.025	0.0262	105	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0278	111	79.3 - 127	
Tetrachloroethene	1	0.025	0.0254	101	73.5 - 130	
Toluene	1	0.025	0.0249	99.8	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0288	115	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0224	89.6	73.5 - 127	
Trichloroethene	1	0.025	0.0257	103	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0301	120	49.1 - 157	
Vinyl chloride	1	0.025	0.0275	110	61.5 - 134	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0271	108	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0268	107	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0238	95.3	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0238	95	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0250	99.8	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0312	125	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0258	103	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0216	86.3	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0251	100	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0233	93.3	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0267	107	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0240	95.8	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0261	104	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0249	99.8	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0276	111	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0244	97.6	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0256	102	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0253	101	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0255	102	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0238	95.3	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0257	103	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1238	99	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0231	92.5	76.4 - 125	
2-Hexanone	1	0.125	0.1238	99	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0259	103	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1205	96.4	63.3 - 138	
Acetone	1	0.125	0.1406	112	28.7 - 175	
Benzene	1	0.025	0.0226	90.6	73 - 122	
Bromobenzene	1	0.025	0.0265	106	81.5 - 115	
Bromochloromethane	1	0.025	0.0231	92.3	78.9 - 123	
Bromodichloromethane	1	0.025	0.0275	110	75.5 - 121	
Bromoform	1	0.025	0.0281	112	71.5 - 131	
Bromomethane	1	0.025	0.0302	121	22.4 - 187	
Carbon disulfide	1	0.025	0.0283	113	53 - 134	
Carbon tetrachloride	1	0.025	0.0279	112	70.9 - 129	
Chlorobenzene	1	0.025	0.0261	104	79.7 - 122	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0276	110	78.2 - 124	
Chloroethane	1	0.025	0.0385	154	41.2 - 153	J4
Chloroform	1	0.025	0.0249	99.5	73.2 - 125	
Chloromethane	1	0.025	0.0286	114	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0215	86	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0264	106	77.7 - 124	
Dibromomethane	1	0.025	0.0260	104	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0260	104	56 - 134	
Ethylbenzene	1	0.025	0.0264	106	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0246	98.6	73.7 - 133	
Isopropylbenzene	1	0.025	0.0268	107	81.6 - 124	
m&p-Xylenes	1	0.05	0.0508	102	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0260	104	70.1 - 125	
Methylene Chloride	1	0.025	0.0276	110	69.5 - 120	
Naphthalene	1	0.025	0.0206	82.6	69.7 - 134	
n-Butylbenzene	1	0.025	0.0257	103	75.9 - 134	
n-Propylbenzene	1	0.025	0.0262	105	81.9 - 122	
o-Xylene	1	0.025	0.0272	109	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0257	103	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0274	110	80.6 - 126	
Styrene	1	0.025	0.0256	102	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0278	111	79.3 - 127	
Tetrachloroethene	1	0.025	0.0265	106	73.5 - 130	
Toluene	1	0.025	0.0249	99.7	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0281	112	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0239	95.7	73.5 - 127	
Trichloroethene	1	0.025	0.0257	103	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0295	118	49.1 - 157	
Vinyl chloride	1	0.025	0.0292	117	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

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	0.0277	111	0.0271	108	78.5 - 125		2.3	20	
1,1,1-Trichloroethane	1	0.025	0.0282	113	0.0268	107	71.1 - 129		5.08	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0238	95.2	0.0238	95.3	79.3 - 123		0.04	20	
1,1,2-Trichloroethane	1	0.025	0.0249	99.6	0.0238	95	81.6 - 120		4.66	20	
1,1-Dichloroethane	1	0.025	0.0260	104	0.0250	99.8	71.7 - 127		4.2	20	
1,1-Dichloroethene	1	0.025	0.0315	126	0.0312	125	59.9 - 137		0.68	20	
1,1-Dichloropropene	1	0.025	0.0262	105	0.0258	103	72.5 - 127		1.32	20	
1,2,3-Trichlorobenzene	1	0.025	0.0243	97.4	0.0216	86.3	75.7 - 134		12.1	20	
1,2,3-Trichloropropane	1	0.025	0.0262	105	0.0251	100	74.9 - 124		4.39	20	
1,2,4-Trichlorobenzene	1	0.025	0.0250	99.8	0.0233	93.3	76.1 - 136		6.71	20	
1,2,4-Trimethylbenzene	1	0.025	0.0260	104	0.0267	107	79 - 122		2.69	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0239	95.8	0.0240	95.8	64.8 - 131		0.06	20	
1,2-Dibromoethane	1	0.025	0.0254	101	0.0261	104	79.8 - 122		2.75	20	
1,2-Dichlorobenzene	1	0.025	0.0262	105	0.0249	99.8	84.7 - 118		4.88	20	
1,2-Dichloroethane	1	0.025	0.0285	114	0.0276	111	65.3 - 126		3.08	20	
1,2-Dichloropropane	1	0.025	0.0244	97.5	0.0244	97.6	77.4 - 125		0.18	20	
1,3,5-Trimethylbenzene	1	0.025	0.0264	105	0.0256	102	81 - 123		2.92	20	
1,3-Dichlorobenzene	1	0.025	0.0255	102	0.0253	101	77.6 - 127		0.6	20	
1,3-Dichloropropane	1	0.025	0.0263	105	0.0255	102	80.6 - 115		3.17	20	
1,4-Dichlorobenzene	1	0.025	0.0251	101	0.0238	95.3	82.2 - 114		5.33	20	
2,2-Dichloropropane	1	0.025	0.0262	105	0.0257	103	61.3 - 134		1.76	20	
2-Butanone (MEK)	1	0.125	0.1113	89	0.1238	99	46.4 - 155		10.6	20	
2-Chlorotoluene	1	0.025	0.0245	98.1	0.0231	92.5	76.4 - 125		5.89	20	
2-Hexanone	1	0.125	0.1203	96.3	0.1238	99	59.4 - 151		2.82	20	
4-Chlorotoluene	1	0.025	0.0263	105	0.0259	103	81.5 - 121		1.73	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1206	96.5	0.1205	96.4	63.3 - 138		0.09	20	
Acetone	1	0.125	0.1457	117	0.1406	112	28.7 - 175		3.61	20.9	
Benzene	1	0.025	0.0234	93.8	0.0226	90.6	73 - 122		3.46	20	
Bromobenzene	1	0.025	0.0269	108	0.0265	106	81.5 - 115		1.42	20	
Bromochloromethane	1	0.025	0.0244	97.6	0.0231	92.3	78.9 - 123		5.56	20	
Bromodichloromethane	1	0.025	0.0268	107	0.0275	110	75.5 - 121		2.82	20	
Bromoform	1	0.025	0.0262	105	0.0281	112	71.5 - 131		6.83	20	
Bromomethane	1	0.025	0.0287	115	0.0302	121	22.4 - 187		4.88	20	
Carbon disulfide	1	0.025	0.0287	115	0.0283	113	53 - 134		1.49	20	
Carbon tetrachloride	1	0.025	0.0286	114	0.0279	112	70.9 - 129		2.35	20	
Chlorobenzene	1	0.025	0.0259	104	0.0261	104	79.7 - 122		0.68	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

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	0.0272	109	0.0276	110	78.2 - 124		1.43	20	
Chloroethane	1	0.025	0.0340	136	0.0385	154	41.2 - 153	J4	12.3	20	
Chloroform	1	0.025	0.0260	104	0.0249	99.5	73.2 - 125		4.58	20	
Chloromethane	1	0.025	0.0229	91.7	0.0286	114	55.8 - 134		22.1	20	J3
cis-1,2-Dichloroethene	1	0.025	0.0227	90.9	0.0215	86	77.3 - 122		5.54	20	
cis-1,3-Dichloropropene	1	0.025	0.0256	102	0.0264	106	77.7 - 124		3.09	20	
Dibromomethane	1	0.025	0.0256	102	0.0260	104	79.5 - 118		1.72	20	
Dichlorodifluoromethane	1	0.025	0.0268	107	0.0260	104	56 - 134		2.81	20	
Ethylbenzene	1	0.025	0.0255	102	0.0264	106	80.9 - 121		3.29	20	
Hexachloro-1,3-butadiene	1	0.025	0.0264	106	0.0246	98.6	73.7 - 133		7.04	20	
Isopropylbenzene	1	0.025	0.0273	109	0.0268	107	81.6 - 124		2.1	20	
m&p-Xylenes	1	0.05	0.0523	105	0.0508	102	78.5 - 122		3.05	20	
Methyl tert-butyl ether	1	0.025	0.0281	112	0.0260	104	70.1 - 125		7.82	20	
Methylene Chloride	1	0.025	0.0287	115	0.0276	110	69.5 - 120		4.07	20	
Naphthalene	1	0.025	0.0228	91.1	0.0206	82.6	69.7 - 134		9.82	20	
n-Butylbenzene	1	0.025	0.0261	104	0.0257	103	75.9 - 134		1.41	20	
n-Propylbenzene	1	0.025	0.0275	110	0.0262	105	81.9 - 122		4.82	20	
o-Xylene	1	0.025	0.0263	105	0.0272	109	79.1 - 123		3.33	20	
p-Isopropyltoluene	1	0.025	0.0262	105	0.0257	103	77.6 - 129		1.85	20	
sec-Butylbenzene	1	0.025	0.0258	103	0.0274	110	80.6 - 126		5.95	20	
Styrene	1	0.025	0.0262	105	0.0256	102	79.9 - 124		2.22	20	
tert-Butylbenzene	1	0.025	0.0278	111	0.0278	111	79.3 - 127		0.04	20	
Tetrachloroethene	1	0.025	0.0254	101	0.0265	106	73.5 - 130		4.27	20	
Toluene	1	0.025	0.0249	99.8	0.0249	99.7	77.9 - 116		0.03	20	
trans-1,2-Dichloroethene	1	0.025	0.0288	115	0.0281	112	72.6 - 125		2.39	20	
trans-1,3-Dichloropropene	1	0.025	0.0224	89.6	0.0239	95.7	73.5 - 127		6.55	20	
Trichloroethene	1	0.025	0.0257	103	0.0257	103	79.5 - 121		0.05	20	
Trichlorofluoromethane	1	0.025	0.0301	120	0.0295	118	49.1 - 157		1.86	20	
Vinyl chloride	1	0.025	0.0275	110	0.0292	117	61.5 - 134		6.08	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0232	92.9	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0255	102	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0234	93.6	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0235	94	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0286	114	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0263	105	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0272	109	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0233	93.2	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0244	97.6	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0239	95.6	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0227	90.9	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0229	91.5	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0234	93.5	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0243	97.3	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0270	108	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0258	103	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0228	91.1	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0232	93	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0244	97.5	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0228	91.2	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0262	105	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1520	122	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0216	86.4	76.4 - 125	
2-Hexanone	1	0.125	0.1288	103	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0236	94.2	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1367	109	63.3 - 138	
Acetone	1	0.125	0.1495	120	28.7 - 175	
Benzene	1	0.025	0.0269	108	73 - 122	
Bromobenzene	1	0.025	0.0236	94.3	81.5 - 115	
Bromochloromethane	1	0.025	0.0262	105	78.9 - 123	
Bromodichloromethane	1	0.025	0.0240	96.1	75.5 - 121	
Bromoform	1	0.025	0.0219	87.5	71.5 - 131	
Bromomethane	1	0.025	0.0258	103	22.4 - 187	
Carbon disulfide	1	0.025	0.0244	97.4	53 - 134	
Carbon tetrachloride	1	0.025	0.0260	104	70.9 - 129	
Chlorobenzene	1	0.025	0.0238	95.1	79.7 - 122	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0240	96	78.2 - 124	
Chloroethane	1	0.025	0.0251	100	41.2 - 153	
Chloroform	1	0.025	0.0259	104	73.2 - 125	
Chloromethane	1	0.025	0.0267	107	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.8	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0257	103	77.7 - 124	
Dibromomethane	1	0.025	0.0249	99.6	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0233	93.2	56 - 134	
Ethylbenzene	1	0.025	0.0227	90.9	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0229	91.6	73.7 - 133	
Isopropylbenzene	1	0.025	0.0228	91.4	81.6 - 124	
m&p-Xylenes	1	0.05	0.0448	89.6	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0258	103	70.1 - 125	
Methylene Chloride	1	0.025	0.0261	104	69.5 - 120	
Naphthalene	1	0.025	0.0229	91.8	69.7 - 134	
n-Butylbenzene	1	0.025	0.0246	98.3	75.9 - 134	
n-Propylbenzene	1	0.025	0.0237	94.8	81.9 - 122	
o-Xylene	1	0.025	0.0227	90.7	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0231	92.4	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0233	93.4	80.6 - 126	
Styrene	1	0.025	0.0221	88.3	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0228	91.2	79.3 - 127	
Tetrachloroethene	1	0.025	0.0223	89.3	73.5 - 130	
Toluene	1	0.025	0.0241	96.6	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0245	98	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0239	95.7	73.5 - 127	
Trichloroethene	1	0.025	0.0244	97.4	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0267	107	49.1 - 157	
Vinyl chloride	1	0.025	0.0262	105	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0236	94.3	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0255	102	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0235	94.1	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0246	98.2	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0290	116	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0266	106	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0271	109	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0232	93	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0245	98.2	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0240	96.2	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0228	91.2	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0236	94.3	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0247	98.6	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0256	102	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0280	112	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0276	110	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0230	92.1	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0238	95	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0257	103	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0243	97.4	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0258	103	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1580	126	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0219	87.4	76.4 - 125	
2-Hexanone	1	0.125	0.1377	110	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0245	98	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1454	116	63.3 - 138	
Acetone	1	0.125	0.1546	124	28.7 - 175	
Benzene	1	0.025	0.0278	111	73 - 122	
Bromobenzene	1	0.025	0.0244	97.6	81.5 - 115	
Bromochloromethane	1	0.025	0.0271	108	78.9 - 123	
Bromodichloromethane	1	0.025	0.0251	100	75.5 - 121	
Bromoform	1	0.025	0.0230	91.9	71.5 - 131	
Bromomethane	1	0.025	0.0249	99.5	22.4 - 187	
Carbon disulfide	1	0.025	0.0247	98.7	53 - 134	
Carbon tetrachloride	1	0.025	0.0276	110	70.9 - 129	
Chlorobenzene	1	0.025	0.0246	98.6	79.7 - 122	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0248	99.1	78.2 - 124	
Chloroethane	1	0.025	0.0243	97.1	41.2 - 153	
Chloroform	1	0.025	0.0265	106	73.2 - 125	
Chloromethane	1	0.025	0.0263	105	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0255	102	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0273	109	77.7 - 124	
Dibromomethane	1	0.025	0.0257	103	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0228	91.2	56 - 134	
Ethylbenzene	1	0.025	0.0234	93.6	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0230	91.8	73.7 - 133	
Isopropylbenzene	1	0.025	0.0235	94.1	81.6 - 124	
m&p-Xylenes	1	0.05	0.0462	92.4	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0264	106	70.1 - 125	
Methylene Chloride	1	0.025	0.0267	107	69.5 - 120	
Naphthalene	1	0.025	0.0230	91.9	69.7 - 134	
n-Butylbenzene	1	0.025	0.0263	105	75.9 - 134	
n-Propylbenzene	1	0.025	0.0243	97.2	81.9 - 122	
o-Xylene	1	0.025	0.0233	93.1	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0231	92.5	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0237	94.7	80.6 - 126	
Styrene	1	0.025	0.0229	91.4	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0228	91.3	79.3 - 127	
Tetrachloroethene	1	0.025	0.0231	92.5	73.5 - 130	
Toluene	1	0.025	0.0256	102	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0249	99.6	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0258	103	73.5 - 127	
Trichloroethene	1	0.025	0.0254	102	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0264	106	49.1 - 157	
Vinyl chloride	1	0.025	0.0262	105	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -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	0.0232	92.9	0.0236	94.3	78.5 - 125		1.5	20	
1,1,1-Trichloroethane	1	0.025	0.0255	102	0.0255	102	71.1 - 129		0.22	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0234	93.6	0.0235	94.1	79.3 - 123		0.54	20	
1,1,2-Trichloroethane	1	0.025	0.0235	94	0.0246	98.2	81.6 - 120		4.4	20	
1,1-Dichloroethane	1	0.025	0.0286	114	0.0290	116	71.7 - 127		1.21	20	
1,1-Dichloroethene	1	0.025	0.0263	105	0.0266	106	59.9 - 137		0.85	20	
1,1-Dichloropropene	1	0.025	0.0272	109	0.0271	109	72.5 - 127		0.04	20	
1,2,3-Trichlorobenzene	1	0.025	0.0233	93.2	0.0232	93	75.7 - 134		0.17	20	
1,2,3-Trichloropropane	1	0.025	0.0244	97.6	0.0245	98.2	74.9 - 124		0.65	20	
1,2,4-Trichlorobenzene	1	0.025	0.0239	95.6	0.0240	96.2	76.1 - 136		0.65	20	
1,2,4-Trimethylbenzene	1	0.025	0.0227	90.9	0.0228	91.2	79 - 122		0.35	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0229	91.5	0.0236	94.3	64.8 - 131		3.04	20	
1,2-Dibromoethane	1	0.025	0.0234	93.5	0.0247	98.6	79.8 - 122		5.37	20	
1,2-Dichlorobenzene	1	0.025	0.0243	97.3	0.0256	102	84.7 - 118		5.05	20	
1,2-Dichloroethane	1	0.025	0.0270	108	0.0280	112	65.3 - 126		3.67	20	
1,2-Dichloropropane	1	0.025	0.0258	103	0.0276	110	77.4 - 125		6.41	20	
1,3,5-Trimethylbenzene	1	0.025	0.0228	91.1	0.0230	92.1	81 - 123		1.09	20	
1,3-Dichlorobenzene	1	0.025	0.0232	93	0.0238	95	77.6 - 127		2.16	20	
1,3-Dichloropropane	1	0.025	0.0244	97.5	0.0257	103	80.6 - 115		5.19	20	
1,4-Dichlorobenzene	1	0.025	0.0228	91.2	0.0243	97.4	82.2 - 114		6.51	20	
2,2-Dichloropropane	1	0.025	0.0262	105	0.0258	103	61.3 - 134		1.75	20	
2-Butanone (MEK)	1	0.125	0.1520	122	0.1580	126	46.4 - 155		3.89	20	
2-Chlorotoluene	1	0.025	0.0216	86.4	0.0219	87.4	76.4 - 125		1.15	20	
2-Hexanone	1	0.125	0.1288	103	0.1377	110	59.4 - 151		6.72	20	
4-Chlorotoluene	1	0.025	0.0236	94.2	0.0245	98	81.5 - 121		3.95	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1367	109	0.1454	116	63.3 - 138		6.17	20	
Acetone	1	0.125	0.1495	120	0.1546	124	28.7 - 175		3.39	20.9	
Benzene	1	0.025	0.0269	108	0.0278	111	73 - 122		3.08	20	
Bromobenzene	1	0.025	0.0236	94.3	0.0244	97.6	81.5 - 115		3.35	20	
Bromochloromethane	1	0.025	0.0262	105	0.0271	108	78.9 - 123		3.03	20	
Bromodichloromethane	1	0.025	0.0240	96.1	0.0251	100	75.5 - 121		4.26	20	
Bromoform	1	0.025	0.0219	87.5	0.0230	91.9	71.5 - 131		4.87	20	
Bromomethane	1	0.025	0.0258	103	0.0249	99.5	22.4 - 187		3.57	20	
Carbon disulfide	1	0.025	0.0244	97.4	0.0247	98.7	53 - 134		1.34	20	
Carbon tetrachloride	1	0.025	0.0260	104	0.0276	110	70.9 - 129		5.84	20	
Chlorobenzene	1	0.025	0.0238	95.1	0.0246	98.6	79.7 - 122		3.64	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -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	0.0240	96	0.0248	99.1	78.2 - 124		3.11	20	
Chloroethane	1	0.025	0.0251	100	0.0243	97.1	41.2 - 153		3.16	20	
Chloroform	1	0.025	0.0259	104	0.0265	106	73.2 - 125		2.32	20	
Chloromethane	1	0.025	0.0267	107	0.0263	105	55.8 - 134		1.53	20	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.8	0.0255	102	77.3 - 122		2.3	20	
cis-1,3-Dichloropropene	1	0.025	0.0257	103	0.0273	109	77.7 - 124		6	20	
Dibromomethane	1	0.025	0.0249	99.6	0.0257	103	79.5 - 118		2.95	20	
Dichlorodifluoromethane	1	0.025	0.0233	93.2	0.0228	91.2	56 - 134		2.19	20	
Ethylbenzene	1	0.025	0.0227	90.9	0.0234	93.6	80.9 - 121		2.87	20	
Hexachloro-1,3-butadiene	1	0.025	0.0229	91.6	0.0230	91.8	73.7 - 133		0.29	20	
Isopropylbenzene	1	0.025	0.0228	91.4	0.0235	94.1	81.6 - 124		2.98	20	
m&p-Xylenes	1	0.05	0.0448	89.6	0.0462	92.4	78.5 - 122		3.11	20	
Methyl tert-butyl ether	1	0.025	0.0258	103	0.0264	106	70.1 - 125		2.48	20	
Methylene Chloride	1	0.025	0.0261	104	0.0267	107	69.5 - 120		2.35	20	
Naphthalene	1	0.025	0.0229	91.8	0.0230	91.9	69.7 - 134		0.11	20	
n-Butylbenzene	1	0.025	0.0246	98.3	0.0263	105	75.9 - 134		6.89	20	
n-Propylbenzene	1	0.025	0.0237	94.8	0.0243	97.2	81.9 - 122		2.53	20	
o-Xylene	1	0.025	0.0227	90.7	0.0233	93.1	79.1 - 123		2.54	20	
p-Isopropyltoluene	1	0.025	0.0231	92.4	0.0231	92.5	77.6 - 129		0.17	20	
sec-Butylbenzene	1	0.025	0.0233	93.4	0.0237	94.7	80.6 - 126		1.46	20	
Styrene	1	0.025	0.0221	88.3	0.0229	91.4	79.9 - 124		3.51	20	
tert-Butylbenzene	1	0.025	0.0228	91.2	0.0228	91.3	79.3 - 127		0.13	20	
Tetrachloroethene	1	0.025	0.0223	89.3	0.0231	92.5	73.5 - 130		3.58	20	
Toluene	1	0.025	0.0241	96.6	0.0256	102	77.9 - 116		5.77	20	
trans-1,2-Dichloroethene	1	0.025	0.0245	98	0.0249	99.6	72.6 - 125		1.61	20	
trans-1,3-Dichloropropene	1	0.025	0.0239	95.7	0.0258	103	73.5 - 127		7.66	20	
Trichloroethene	1	0.025	0.0244	97.4	0.0254	102	79.5 - 121		4.12	20	
Trichlorofluoromethane	1	0.025	0.0267	107	0.0264	106	49.1 - 157		0.89	20	
Vinyl chloride	1	0.025	0.0262	105	0.0262	105	61.5 - 134		0.03	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0259	104	0.0272	109	70.5 - 132		4.93	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0273	109	0.0297	119	58.7 - 134		8.48	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0278	111	0.0262	105	64.9 - 145		5.96	20	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0230	92.2	0.0254	102	74.1 - 130		9.88	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0261	104	0.0265	106	64 - 134		1.33	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0255	102	0.0267	107	48.8 - 144		4.75	20	
1,1-Dichloropropene	1	0.025	<0.0004	0.0263	105	0.0271	108	61.5 - 136		2.93	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0245	98	0.0242	97	65.7 - 143		1.07	20	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0272	109	0.0263	105	71.5 - 134		3.31	20	
1,2,4-Trichlorobenzene	1	0.025	<0.0004	0.0252	101	0.0254	101	67 - 146		0.74	20	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0270	108	0.0283	113	60.5 - 137		4.68	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0220	88	0.0274	109	63.9 - 142		21.8	20.2	J3
1,2-Dibromoethane	1	0.025	<0.0004	0.0249	99.4	0.0263	105	73.8 - 131		5.5	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0258	103	0.0277	111	77.4 - 127		7.32	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0297	119	0.0299	120	60.7 - 132		0.64	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0244	97.7	0.0264	105	69.7 - 130		7.6	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0269	107	0.0259	103	67.9 - 134		3.76	20	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0247	98.8	0.0287	115	67.9 - 136		15	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0253	101	0.0262	105	74.3 - 123		3.6	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0237	95	0.0255	102	74.4 - 123		7.26	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0278	111	0.0285	114	54.9 - 142		2.42	20	
2-Butanone (MEK)	1	0.125	<0.0039	0.0966	77.3	0.0974	77.9	45 - 156		0.88	20.8	
2-Chlorotoluene	1	0.025	<0.0004	0.0275	110	0.0256	102	66.9 - 134		7.14	20	
2-Hexanone	1	0.125	<0.0038	0.1109	88.7	0.1254	100	59.4 - 154		12.2	20.1	
4-Chlorotoluene	1	0.025	<0.0004	0.0262	105	0.0259	104	66.8 - 134		1.2	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1245	99.6	0.1483	119	60.7 - 150		17.4	20	
Acetone	1	0.125	<0.01	0.0670	52.8	0.0737	58.2	25 - 156		9.5	21.5	
Benzene	1	0.025	<0.0003	0.0229	91.5	0.0238	95.4	58.6 - 133		4.16	20	
Bromobenzene	1	0.025	<0.0004	0.0290	116	0.0261	104	70.6 - 125		10.6	20	
Bromochloromethane	1	0.025	<0.0005	0.0239	95.7	0.0244	97.6	74.4 - 128		1.95	20	
Bromodichloromethane	1	0.025	<0.0004	0.0272	109	0.0292	117	69.2 - 127		7.15	20	
Bromoform	1	0.025	<0.0005	0.0271	108	0.0295	118	66.3 - 140		8.49	20	
Bromomethane	1	0.025	<0.0009	0.0264	106	0.0262	105	16.6 - 183		0.8	20.5	
Carbon disulfide	1	0.025	<0.0003	0.0194	77.6	0.0200	80.1	34.9 - 138		3.09	20	
Carbon tetrachloride	1	0.025	<0.0004	0.0253	101	0.0295	118	60.6 - 139		15.2	20	
Chlorobenzene	1	0.025	<0.0003	0.0247	98.9	0.0262	105	70.1 - 130		5.71	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0263	105	0.0285	114	71.6 - 132		8.1	20	
Chloroethane	1	0.025	<0.0005	0.0321	129	0.0329	132	33.3 - 155		2.26	20	
Chloroform	1	0.025	<0.0003	0.0262	105	0.0269	108	66.1 - 133		2.55	20	
Chloromethane	1	0.025	<0.0003	0.0237	95	0.0220	88	40.7 - 139		7.65	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0234	93.8	0.0237	94.9	60.6 - 136		1.25	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0264	106	0.0282	113	71.1 - 129		6.37	20	
Dibromomethane	1	0.025	<0.0003	0.0255	102	0.0285	114	72.8 - 127		11.1	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0276	110	0.0276	110	42.2 - 146		0.12	20	
Ethylbenzene	1	0.025	<0.0004	0.0234	93.7	0.0252	101	62.7 - 136		7.41	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0278	111	0.0272	109	61.1 - 144		2.22	20.1	
Isopropylbenzene	1	0.025	<0.0003	0.0273	109	0.0265	106	67.4 - 136		2.99	20	
m&p-Xylenes	1	0.05	<0.0007	0.0491	98.2	0.0487	97.4	64.1 - 133		0.74	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0267	105	0.0285	113	61.4 - 136		6.55	20	
Methylene Chloride	1	0.025	<0.001	0.0220	86.4	0.0244	95.9	61.5 - 125		10.2	20	
Naphthalene	1	0.025	<0.001	0.0218	87.1	0.0252	101	61.8 - 143		14.5	20	
n-Butylbenzene	1	0.025	<0.0004	0.0268	107	0.0275	110	64.8 - 145		2.9	20	
n-Propylbenzene	1	0.025	<0.0003	0.0277	111	0.0269	108	63.2 - 139		3.12	20	
o-Xylene	1	0.025	<0.0003	0.0248	99.1	0.0258	103	67.1 - 133		4.1	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0267	107	0.0292	117	62.8 - 143		9.04	20	
sec-Butylbenzene	1	0.025	<0.0004	0.0274	110	0.0293	117	66.8 - 139		6.64	20	
Styrene	1	0.025	<0.0003	0.0	0	0.0	0	68.2 - 133	J6	0	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0290	116	0.0292	117	67.1 - 138		0.86	20	
Tetrachloroethene	1	0.025	<0.0004	0.0236	94.3	0.0253	101	57.4 - 141		7.01	20	
Toluene	1	0.025	<0.0008	0.0246	98.4	0.0260	104	67.8 - 124		5.47	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0229	91.7	0.0237	94.8	61 - 132		3.37	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0230	91.9	0.0238	95.2	66.3 - 136		3.59	20	
Trichloroethene	1	0.025	<0.0004	0.0252	101	0.0267	107	48.9 - 148		5.67	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0303	121	0.0306	123	39.9 - 165		1.15	20	
Vinyl chloride	1	0.025	<0.0003	0.0248	99.3	0.0264	106	44.3 - 143		6.08	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Matrix Spike / Matrix Spike Duplicate

L767160-06

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	0.0294	118	0.0268	107	70.5 - 132		9.25	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0318	127	0.0304	122	58.7 - 134		4.5	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0276	110	0.0255	102	64.9 - 145		8.07	20	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0278	111	0.0243	97.2	74.1 - 130		13.5	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0289	116	0.0274	110	64 - 134		5.5	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0278	111	0.0293	117	48.8 - 144		5.28	20	
1,1-Dichloropropene	1	0.025	<0.0004	0.0292	117	0.0278	111	61.5 - 136		4.78	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0299	120	0.0260	104	65.7 - 143		14	20	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0302	121	0.0274	110	71.5 - 134		9.55	20	
1,2,4-Trichlorobenzene	1	0.025	<0.0004	0.0312	125	0.0284	114	67 - 146		9.28	20	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0274	109	0.0257	103	60.5 - 137		6.23	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0310	124	0.0273	109	63.9 - 142		12.7	20.2	
1,2-Dibromoethane	1	0.025	<0.0004	0.0286	114	0.0263	105	73.8 - 131		8.26	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0290	116	0.0281	112	77.4 - 127		3.26	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0323	129	0.0315	126	60.7 - 132		2.48	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0258	103	0.0259	103	69.7 - 130		0.28	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0276	110	0.0261	105	67.9 - 134		5.48	20	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0272	109	0.0252	101	67.9 - 136		7.79	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0284	114	0.0264	106	74.3 - 123		7.42	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0274	110	0.0258	103	74.4 - 123		6.06	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0305	122	0.0300	120	54.9 - 142		1.64	20	
2-Butanone (MEK)	1	0.125	<0.0039	0.1166	93.3	0.1165	93.2	45 - 156		0.05	20.8	
2-Chlorotoluene	1	0.025	<0.0004	0.0259	104	0.0242	96.8	66.9 - 134		6.83	20	
2-Hexanone	1	0.125	<0.0038	0.1279	102	0.1174	93.9	59.4 - 154		8.55	20.1	
4-Chlorotoluene	1	0.025	<0.0004	0.0276	111	0.0267	107	66.8 - 134		3.39	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1463	117	0.1332	107	60.7 - 150		9.37	20	
Acetone	1	0.125	<0.01	0.0755	59.5	0.0750	59.1	25 - 156		0.68	21.5	
Benzene	1	0.025	<0.0003	0.0251	100	0.0247	99	58.6 - 133		1.38	20	
Bromobenzene	1	0.025	<0.0004	0.0284	114	0.0268	107	70.6 - 125		5.78	20	
Bromochloromethane	1	0.025	<0.0005	0.0257	103	0.0263	105	74.4 - 128		2.56	20	
Bromodichloromethane	1	0.025	<0.0004	0.0303	121	0.0285	114	69.2 - 127		6.16	20	
Bromoform	1	0.025	<0.0005	0.0316	126	0.0282	113	66.3 - 140		11.4	20	
Bromomethane	1	0.025	<0.0009	0.0300	120	0.0304	121	16.6 - 183		1.07	20.5	
Carbon disulfide	1	0.025	<0.0003	0.0211	84.5	0.0205	81.9	34.9 - 138		3.11	20	
Carbon tetrachloride	1	0.025	<0.0004	0.0312	125	0.0308	123	60.6 - 139		1.43	20	
Chlorobenzene	1	0.025	<0.0003	0.0277	111	0.0258	103	70.1 - 130		7.4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Matrix Spike / Matrix Spike Duplicate

L767160-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0314	125	0.0270	108	71.6 - 132		14.8	20	
Chloroethane	1	0.025	<0.0005	0.0378	151	0.0404	162	33.3 - 155	J5	6.71	20	
Chloroform	1	0.025	<0.0003	0.0294	118	0.0289	116	66.1 - 133		1.96	20	
Chloromethane	1	0.025	<0.0003	0.0204	81.8	0.0211	84.5	40.7 - 139		3.27	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0244	97.7	0.0251	100	60.6 - 136		2.68	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0285	114	0.0264	105	71.1 - 129		7.59	20	
Dibromomethane	1	0.025	<0.0003	0.0287	115	0.0287	115	72.8 - 127		0.18	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0269	107	0.0255	102	42.2 - 146		5.26	20	
Ethylbenzene	1	0.025	<0.0004	0.0284	114	0.0262	105	62.7 - 136		7.89	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0293	117	0.0291	116	61.1 - 144		0.67	20.1	
Isopropylbenzene	1	0.025	<0.0003	0.0290	116	0.0275	110	67.4 - 136		5.56	20	
m&p-Xylenes	1	0.05	<0.0007	0.0556	111	0.0511	102	64.1 - 133		8.43	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0283	113	0.0286	114	61.4 - 136		0.93	20	
Methylene Chloride	1	0.025	<0.001	0.0256	102	0.0255	102	61.5 - 125		0.25	20	
Naphthalene	1	0.025	<0.001	0.0303	121	0.0249	99.6	61.8 - 143		19.7	20	
n-Butylbenzene	1	0.025	<0.0004	0.0288	115	0.0285	114	64.8 - 145		1.12	20	
n-Propylbenzene	1	0.025	<0.0003	0.0291	116	0.0271	108	63.2 - 139		7.21	20	
o-Xylene	1	0.025	<0.0003	0.0282	113	0.0255	102	67.1 - 133		9.92	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0287	115	0.0268	107	62.8 - 143		6.67	20	
sec-Butylbenzene	1	0.025	<0.0004	0.0281	112	0.0272	109	66.8 - 139		3.12	20	
Styrene	1	0.025	<0.0003	0.0268	107	0.0259	103	68.2 - 133		3.63	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0287	115	0.0278	111	67.1 - 138		3.17	20	
Tetrachloroethene	1	0.025	<0.0004	0.0270	108	0.0243	97.1	57.4 - 141		10.4	20	
Toluene	1	0.025	<0.0008	0.0265	106	0.0258	103	67.8 - 124		2.86	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0254	102	0.0248	99.2	61 - 132		2.35	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0257	103	0.0247	98.8	66.3 - 136		4.04	20	
Trichloroethene	1	0.025	<0.0004	0.0262	105	0.0271	108	48.9 - 148		3.54	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0315	126	0.0315	126	39.9 - 165		0.05	20	
Vinyl chloride	1	0.025	<0.0003	0.0231	92.5	0.0226	90.3	44.3 - 143		2.37	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Matrix Spike / Matrix Spike Duplicate

L766854-09

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	0.0247	98.7	0.0252	101	70.5 - 132		2.01	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0266	106	0.0282	113	58.7 - 134		5.92	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0006	0.0282	110	0.0280	109	64.9 - 145		0.6	20	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0254	101	0.0257	103	74.1 - 130		1.34	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0304	122	0.0313	125	64 - 134		2.74	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0278	111	0.0293	117	48.8 - 144		5.25	20	
1,1-Dichloropropene	1	0.025	<0.0004	0.0286	114	0.0303	121	61.5 - 136		5.89	20	
1,2,3-Trichlorobenzene	1	0.025	0.0003	0.0261	103	0.0265	105	65.7 - 143		1.34	20	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0283	113	0.0285	114	71.5 - 134		0.87	20	
1,2,4-Trichlorobenzene	1	0.025	<0.0004	0.0269	108	0.0271	108	67 - 146		0.72	20	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0242	97	0.0247	98.7	60.5 - 137		1.74	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0272	109	0.0278	111	63.9 - 142		2.11	20.2	
1,2-Dibromoethane	1	0.025	<0.0004	0.0259	104	0.0261	104	73.8 - 131		0.64	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0262	105	0.0265	106	77.4 - 127		1.22	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0291	116	0.0298	119	60.7 - 132		2.24	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0279	112	0.0285	114	69.7 - 130		2.08	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0242	96.8	0.0250	99.9	67.9 - 134		3.09	20	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0251	100	0.0254	102	67.9 - 136		1.3	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0262	105	0.0262	105	74.3 - 123		0.2	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0245	97.9	0.0253	101	74.4 - 123		3.31	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0276	110	0.0289	116	54.9 - 142		4.67	20	
2-Butanone (MEK)	1	0.125	<0.0039	0.1471	118	0.1495	120	45 - 156		1.63	20.8	
2-Chlorotoluene	1	0.025	<0.0004	0.0230	92.1	0.0231	92.6	66.9 - 134		0.54	20	
2-Hexanone	1	0.125	<0.0038	0.1501	120	0.1493	119	59.4 - 154		0.54	20.1	
4-Chlorotoluene	1	0.025	<0.0004	0.0255	102	0.0260	104	66.8 - 134		1.93	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1609	129	0.1631	130	60.7 - 150		1.37	20	
Acetone	1	0.125	<0.01	0.1132	89.4	0.1134	89.6	25 - 156		0.2	21.5	
Benzene	1	0.025	<0.0003	0.0288	115	0.0298	119	58.6 - 133		3.56	20	
Bromobenzene	1	0.025	<0.0004	0.0254	102	0.0254	101	70.6 - 125		0.12	20	
Bromochloromethane	1	0.025	<0.0005	0.0286	115	0.0293	117	74.4 - 128		2.4	20	
Bromodichloromethane	1	0.025	<0.0004	0.0255	102	0.0262	105	69.2 - 127		2.81	20	
Bromoform	1	0.025	<0.0005	0.0251	100	0.0245	97.8	66.3 - 140		2.47	20	
Bromomethane	1	0.025	<0.0009	0.0267	107	0.0280	112	16.6 - 183		4.77	20.5	
Carbon disulfide	1	0.025	<0.0003	0.0260	104	0.0271	108	34.9 - 138		4.18	20	
Carbon tetrachloride	1	0.025	<0.0004	0.0290	116	0.0288	115	60.6 - 139		0.61	20	
Chlorobenzene	1	0.025	<0.0003	0.0249	99.6	0.0256	102	70.1 - 130		2.68	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Matrix Spike / Matrix Spike Duplicate

L766854-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0259	103	0.0254	102	71.6 - 132		1.64	20	
Chloroethane	1	0.025	<0.0005	0.0264	105	0.0277	111	33.3 - 155		4.94	20	
Chloroform	1	0.025	<0.0003	0.0276	110	0.0286	114	66.1 - 133		3.33	20	
Chloromethane	1	0.025	<0.0003	0.0280	112	0.0292	117	40.7 - 139		4.21	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0273	109	0.0280	112	60.6 - 136		2.51	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0268	107	0.0274	110	71.1 - 129		2.37	20	
Dibromomethane	1	0.025	<0.0003	0.0266	106	0.0273	109	72.8 - 127		2.42	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0248	99.2	0.0260	104	42.2 - 146		4.64	20	
Ethylbenzene	1	0.025	<0.0004	0.0241	96.2	0.0246	98.4	62.7 - 136		2.22	20	
Hexachloro-1,3-butadiene	1	0.025	0.0003	0.0246	97.1	0.0256	101	61.1 - 144		3.92	20.1	
Isopropylbenzene	1	0.025	<0.0003	0.0244	97.6	0.0250	100	67.4 - 136		2.49	20	
m&p-Xylenes	1	0.05	<0.0007	0.0472	94.4	0.0482	96.4	64.1 - 133		2.12	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0286	114	0.0286	114	61.4 - 136		0.13	20	
Methylene Chloride	1	0.025	<0.001	0.0273	109	0.0280	112	61.5 - 125		2.43	20	
Naphthalene	1	0.025	<0.001	0.0266	105	0.0274	108	61.8 - 143		3.01	20	
n-Butylbenzene	1	0.025	<0.0004	0.0271	108	0.0282	113	64.8 - 145		3.96	20	
n-Propylbenzene	1	0.025	<0.0003	0.0253	101	0.0262	105	63.2 - 139		3.48	20	
o-Xylene	1	0.025	<0.0003	0.0241	96.3	0.0246	98.2	67.1 - 133		1.99	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0250	99.9	0.0257	103	62.8 - 143		2.78	20	
sec-Butylbenzene	1	0.025	<0.0004	0.0250	100	0.0260	104	66.8 - 139		3.95	20	
Styrene	1	0.025	<0.0003	0.0231	92.5	0.0234	93.4	68.2 - 133		1	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0247	98.7	0.0253	101	67.1 - 138		2.58	20	
Tetrachloroethene	1	0.025	0.0013	0.0241	91.3	0.0247	93.8	57.4 - 141		2.63	20	
Toluene	1	0.025	<0.0008	0.0254	102	0.0268	107	67.8 - 124		5.49	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0260	104	0.0270	108	61 - 132		3.54	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0255	102	0.0265	106	66.3 - 136		3.81	20	
Trichloroethene	1	0.025	0.0917	0.0717	0	0.0798	0	48.9 - 148	J6	10.7	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0284	114	0.0294	118	39.9 - 165		3.32	20	
Vinyl chloride	1	0.025	<0.0003	0.0281	112	0.0293	117	44.3 - 143		4.28	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Internal Standard Response and Retention Time Summary

File ID: 0601_32
Analyzed: 06/01/15 223300

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	529655	4.33	896063	4.66	157049	5.83	372507	8.23
Upper Limit	1060000	4.83	1790000	5.16	314000	6.33	745000	8.73
Lower Limit	265000	3.83	448000	4.16	78500	5.33	186000	7.73
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-01	413405	4.33	674529	4.66	121504	5.83	336993	8.23
L767115-02	407011	4.33	662378	4.66	113621	5.83	293365	8.23
L767115-05	418311	4.33	672968	4.66	119968	5.83	320664	8.23
L767115-09	435230	4.33	703659	4.66	118472	5.83	333819	8.23
L767115-11	431366	4.33	680263	4.66	114870	5.83	299785	8.23
L767115-07	426782	4.33	685473	4.66	116633	5.83	307719	8.23
MSD WG791367	433500	4.33	700131	4.66	125319	5.83	364515	8.23
MSD WG791367	407652	4.33	704386	4.66	123323	5.83	310838	8.23
MS WG791367	428041	4.33	707786	4.66	124369	5.83	313893	8.23
MS WG791367	422715	4.33	708114	4.66	119699	5.83	309689	8.23
LCSD WG791367	442849	4.33	702715	4.66	117903	5.83	319624	8.23
LCS WG791367	444634	4.33	732095	4.66	122121	5.83	324221	8.23
BLANK WG791367	468982	4.33	734147	4.66	128972	5.83	332124	8.23

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Internal Standard Response and Retention Time Summary

File ID: 0603_36
Analyzed: 06/03/15 212000

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	279196	4.15	489659	4.48	80754	5.64	212429	8.03
Upper Limit	558000	4.65	979000	4.98	162000	6.14	425000	8.53
Lower Limit	140000	3.65	245000	3.98	40400	5.14	106000	7.53
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-01	244883	4.16	443135	4.48	71795	5.64	178273	8.03
L767115-02	203110	4.16	366766	4.48	62759	5.64	157508	8.03
L767115-05	225544	4.16	400947	4.48	68858	5.64	170958	8.03
MSD WG793150	266482	4.15	469757	4.48	78472	5.64	202337	8.03
MS WG793150	274271	4.16	487889	4.48	80302	5.64	209792	8.03
LCSD WG793150	302469	4.15	530394	4.48	88634	5.64	218594	8.03
LCS WG793150	294705	4.16	524327	4.48	85497	5.64	222732	8.03
BLANK WG793150	269079	4.16	479356	4.48	77611	5.64	192197	8.03

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791367**
Analysis Date:	6/1/2015	Analyst:	621
Instrument ID:	VOCMS7		
Sample Numbers:	L767115-01, -02, -05, -07, -09, -11		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L767115-01	VOCMS7	0601_53	0.0476	119	0.0455	114	0.0439	110		
L767115-02	VOCMS7	0601_54	0.0432	108	0.0440	110	0.0429	107		
L767115-05	VOCMS7	0601_55	0.0407	102	0.0426	107	0.0423	106		
L767115-07	VOCMS7	0601_46	0.0493	123 J1	0.0453	113	0.0438	110		
L767115-09	VOCMS7	0601_44	0.0436	109	0.0457	114	0.0428	107		
L767115-11	VOCMS7	0601_45	0.0446	111	0.0437	109	0.0430	108		
LCS WG791367	VOCMS7	0601_34	0.0463	116	0.0449	112	0.0432	108	0.0415	104
BLANK WG791367	VOCMS7	0601_36	0.0424	106	0.0434	109	0.0437	109	0.0419	105
LCSD WG791367	VOCMS7	0601_37	0.0460	115	0.0425	106	0.0443	111	0.0421	105
MS WG791367	VOCMS7	0601_38	0.0471	118	0.0451	113	0.0434	109	0.0421	105
MSD WG791367	VOCMS7	0601_39	0.0431	108	0.0442	111	0.0442	110	0.0416	104
MS WG791367	VOCMS7	0601_40	0.0450	112	0.0437	109	0.0427	107	0.0400	99.9
MSD WG791367	VOCMS7	0601_41	0.0432	108	0.0455	114	0.0440	110	0.0408	102

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG793150**
Analysis Date:	6/3/2015	Analyst:	621
Instrument ID:	VOCMS18		
Sample Numbers:	L767115-01, -02, -05		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L767115-01	VOCMS18	0603_63	0.0369	92.2	0.0445	111	0.0421	105		
L767115-02	VOCMS18	0603_64	0.0373	93.2	0.0447	112	0.0426	107		
L767115-05	VOCMS18	0603_65	0.0374	93.6	0.0450	112	0.0421	105		
BLANK WG793150	VOCMS18	0603_38	0.0379	94.7	0.0437	109	0.0423	106	0.0404	101
LCS WG793150	VOCMS18	0603_45	0.0387	96.7	0.0429	107	0.0423	106	0.0387	96.8
LCSD WG793150	VOCMS18	0603_46	0.0374	93.4	0.0418	105	0.0428	107	0.0391	97.8
MS WG793150	VOCMS18	0603_47	0.0384	96.0	0.0424	106	0.0413	103	0.0386	96.4
MSD WG793150	VOCMS18	0603_48	0.0383	95.7	0.0430	108	0.0416	104	0.0392	97.9

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS7

Instrument Performance Summary

FileID: 0601_30.D Date: 6/1/2015 Time: 8:23 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	22.9
75	30 - 60% of mass 95	56
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.1
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	74.5
175	5 - 9% of mass 174	7.4
176	95 - 101% of mass 174	99.3
177	5 - 9% of mass 176	6.3

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG791367	LCS WG791367	0601_34.D	6/1/2015	11:12 PM
Blank WG791367	Blank WG791367	0601_36.D	6/1/2015	11:50 PM
LCSD WG791367	LCSD WG791367	0601_37.D	6/2/2015	12:10 AM
MS WG791367	MS WG791367	0601_38.D	6/2/2015	12:29 AM
MSD WG791367	MSD WG791367	0601_39.D	6/2/2015	12:48 AM
MS WG791367	MS WG791367	0601_40.D	6/2/2015	1:08 AM
MSD WG791367	MSD WG791367	0601_41.D	6/2/2015	1:27 AM
H-SS059-MW50-NT01	L767115-09	0601_44.D	6/2/2015	2:25 AM
H-TUQC-TRIPBLANK-TT02	L767115-11	0601_45.D	6/2/2015	2:44 AM
H-SS059-MW51-NT01	L767115-07	0601_46.D	6/2/2015	3:04 AM
H-SS059-FIELDBLANK-FT01	L767115-01	0601_53.D	6/2/2015	5:19 AM
H-SS059-MW52-DT01	L767115-02	0601_54.D	6/2/2015	5:39 AM
H-SS059-MW52-NT01	L767115-05	0601_55.D	6/2/2015	5:58 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS18

Instrument Performance Summary

FileID: 0603_35.D Date: 6/3/2015 Time: 9:00 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	20.3
75	30 - 60% of mass 95	49.8
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.3
174	50 - 150% of mass 95	66.2
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	95.1
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
Blank WG793150	Blank WG793150	0603_38.D	6/3/2015	10:10 PM
LCS WG793150	LCS WG793150	0603_45.D	6/4/2015	12:30 AM
LCSD WG793150	LCSD WG793150	0603_46.D	6/4/2015	12:50 AM
MS WG793150	MS WG793150	0603_47.D	6/4/2015	1:10 AM
MSD WG793150	MSD WG793150	0603_48.D	6/4/2015	1:30 AM
H-SS059-FIELDBLANK-FT01	L767115-01	0603_63.D	6/4/2015	6:58 AM
H-SS059-MW52-DT01	L767115-02	0603_64.D	6/4/2015	7:18 AM
H-SS059-MW52-NT01	L767115-05	0603_65.D	6/4/2015	7:38 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS7
Method Name : V807C24O.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			0.100	0.153	0.118	0.089	0.087	0.099	0.084	0.102698	22.25
DICHLORODIFLUOROMETHANE	0.570	0.632	0.576	0.489	0.483	0.446	0.452	0.470	0.447	0.512445	12.92
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.610	0.574	0.649497	11.25
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.598816	14.76
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.455505	10.04
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.323474	11.15
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.101926	24.38
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.690	0.648	0.695080	8.99
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.890	0.835	0.913865	9.22
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.407165	13.56
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.080	0.079	0.088983	11.19
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.735472	8.65
1,1,2-TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.410	0.369	0.375	0.396	0.379	0.409156	13.06
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.303179	13.91
IODOMETHANE	0.520	0.513	0.514	0.480	0.488	0.485	0.497	0.528	0.511	0.526654	11.86
CARBON DISULFIDE		1.884	1.720	1.502	1.503	1.394	1.382	1.442	1.330	1.528733	12.00
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.478840	13.53
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.194188	14.50
n-Hexane			0.606	0.530	0.543	0.455	0.458	0.452	0.418	0.491346	12.49
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.450	0.458	0.396	0.414	0.428	0.405	0.449014	10.39
METHYL TERT-BUTYL ETHER	1.443	1.504	1.490	1.327	1.403	1.378	1.391	1.335	1.279	1.408644	7.04
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.820	0.848	0.847	0.806	0.873649	8.94
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.831477	9.13
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.755514	6.67
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.710	0.730	0.684	0.782409	11.61
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.450	0.473	0.441	0.513434	13.89
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.077082	10.12

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS7
Method Name : V807C24O.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	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.278472	10.39
TETRAHYDROFURAN					0.196	0.169	0.184	0.170	0.156	0.177354	8.76
CHLOROFORM	1.045	0.960	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.850304	11.68
DIBROMOFLUOROMETHANE	0.520	0.519	0.518	0.497	0.500	0.486	0.483	0.471	0.448	0.485690	5.81
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.693918	7.71
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.580	0.507	0.603	0.574	0.601	0.624409	12.01
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.666691	8.57
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.030	1.912	2.098022	8.15
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.870	0.862	0.950340	14.53
BENZENE	2.140	2.065	1.794	1.740	1.863	1.674	1.697	1.772	1.678	1.851716	10.02
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.640	0.654	0.659	0.646	0.659226	8.60
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.259421	9.35
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.209641	9.52
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.165064	11.99
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.394252	8.97
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.540	0.527	0.518	0.505	0.500	0.529652	5.69
2-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.007502	13.44
CIS-1,3-DICHLOROPROPENE	0.534	0.450	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.478505	8.91
4-METHYL-2-PENTANONE (MIBK)	0.135	0.130	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.122035	7.04
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.130837	6.03
TOLUENE			1.346	1.130	1.133	1.020	1.061	1.072	1.051	1.137856	10.52
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.102139	9.62
1,1,2-TRICHLOROETHANE	1.859	1.750	1.652	1.315	1.267	1.280	1.310	1.292	1.328	1.447203	14.73
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.167447	11.94
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.523957	11.80
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.762280	5.09
CHLORODIBROMOMETHANE	1.640	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.487629	9.09
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.423086	9.81
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	4.092201	7.30

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS7
Method Name : V807C24O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.330	1.360545	13.94
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.252184	12.00
M&P-XYLENE	3.367	2.830	2.978	2.628	2.761	2.545	2.600	2.655	2.683	2.817875	9.43
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.716255	7.35
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.380444	7.32
Bromoform	0.696	0.762	0.872	0.870	0.836	0.919	0.917	0.915	0.996	0.910214	15.07
Isopropylbenzene	7.900	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.140	7.332195	8.05
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.490	2.672	2.562004	2.65
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.050	3.038	3.077	3.115	3.368494	11.90
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.961025	12.02
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.560	0.472	0.484	0.512	0.517	0.482	0.514	0.519418	11.95
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.590	0.560	0.591	0.616610	9.23
n-Propylbenzene	9.40	10.12	8.39	8.06	8.29	7.96	8.00	8.38	8.49	8.69297	8.64
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	7.082606	9.40
2-Chlorotoluene	1.730	1.618	1.768	1.573	1.360	1.387	1.454	1.494	1.567	1.582825	10.40
4-Chlorotoluene	6.949	6.755	5.469	5.150	5.148	4.820	4.871	5.055	5.201	5.507779	13.35
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.750	6.075059	9.07
tert-Butylbenzene	5.240	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.085524	6.91
1,2,4-Trimethylbenzene	8.360	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	6.294970	12.63
sec-Butylbenzene	7.626	9.453	8.510	8.096	7.677	7.245	7.267	7.757	7.860	8.061308	8.89
1,3-DICHLOROBENZENE	3.620	3.251	3.388	3.350	3.137	3.045	3.019	3.218	3.251	3.306657	7.27
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.440	6.502	6.607499	6.98
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.298935	4.37
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.250	1.125	1.121	1.164	1.157	1.139	1.242984	13.74
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2.000	2.211	2.157	2.138	2.159	2.033	2.258348	10.21
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.150	1.104	1.141644	6.27
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.200	2.423547	9.14
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.147500	11.36
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.740	0.763697	8.67

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS7
Method Name : V807C24O.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	0.580	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.442110	12.19
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.118033	7.41
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.718156	8.81
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.890	0.981	1.055	1.065	1.031	1.037947	13.40
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.860	0.889	0.888	0.838	0.855519	5.39
ETHANOL										0.007288	5.23
Bromoethane										0.363060	4.77
2-PROPANOL										0.049084	33.36
Methyl Acetate										0.428083	4.00
ACETONITRILE										0.067855	3.40
ALLYL CHLORIDE										0.250950	4.35
tert-BUTYL ALCOHOL										0.090417	8.88
chloroprene										0.812852	4.00
ETHYL TERT-BUTYL ETHER										1.607081	3.59
PROPIONITRILE										0.067706	4.05
Ethyl Acetate										0.515772	3.06
METHACRYLONITRILE										0.189154	4.01
Cyclohexane										0.820293	3.72
tert-butyl formate										0.511156	3.47
ISOBUTANOL										0.031949	5.07
t-Amyl Alcohol										0.050268	11.59
TERT-AMYL METHYL ETHER										1.344875	2.06
N-BUTANOL										0.009641	3.43
Methyl Cyclohexane										0.677747	25.66
2-nitropropane										0.108981	4.59
METHYL METHACRYLATE										0.296007	3.66
1,4-DIOXANE										0.003260	4.83
n-octane										0.298182	5.88
3,3-DIMETHYL-1-BUTANOL										0.029820	5.35

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS7
Method Name : V807C24O.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										2.034599	2.85
CIS-1,4-DICHLORO-2-BUTENE										0.573680	5.66
Cyclohexanone										0.385958	13.84
PENTACHLOROETHANE										0.937291	4.37
Hexachloroethane										1.111675	2.67

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS18
Method Name : V818E01O.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	3254	3468	3667	3661	4259	3574	3504	3184		3571.352	9.21
PROPENE			0.180	0.154	0.178	0.126	0.117	0.114	0.116	0.132764	22.61
DICHLORODIFLUOROMETHANE	1.020	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.807365	13.13
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.810	0.858	0.902035	10.45
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1.000	1.002527	5.97
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.804246	15.38
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.562350	15.44
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.180	0.183	0.196003	13.28
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1.000	0.995	1.046	1.018667	4.50
DICHLOROFLUOROMETHANE	1.746	1.582	1.480	1.400	1.563	1.350	1.311	1.283	1.337	1.415292	11.30
ETHYL ETHER	0.858	0.735	0.660	0.639	0.644	0.632	0.595	0.575	0.625	0.649659	12.71
ACROLEIN			0.090	0.079	0.093	0.087	0.077	0.074	0.084	0.082214	8.46
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.180	1.190008	6.13
1,1,2-TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.688387	5.41
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.223746	9.13
IODOMETHANE	1.039	1.059	1.060	1.025	1.111	1.025	1.030	1.022	1.089	1.048907	3.18
CARBON DISULFIDE	2.959	2.860	2.718	2.634	2.707	2.520	2.425	2.458	2.562	2.608562	7.28
METHYLENE CHLORIDE			1.001	0.802	0.810	0.714	0.705	0.687	0.727	0.758907	13.53
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.200756	6.52
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.772032	9.88
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.782261	11.72
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.010	1.893	1.809	1.733	1.884	1.887984	6.11
1,1-DICHLOROETHANE	1.271	1.328	1.340	1.334	1.425	1.311	1.336	1.304	1.365	1.327731	3.49
VINYL ACETATE	1.231	1.213	1.160	1.127	1.289	1.290	1.150	1.255	1.371	1.209088	7.62
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.545420	4.50
2,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.888322	13.38
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.770	0.762	0.753	0.794	0.812438	9.18
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.311189	13.77

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS18
Method Name : V818E01O.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	0.402	0.358	0.428	0.410	0.427	0.410	0.402	0.393	0.417	0.404141	4.96
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.205328	13.93
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.291466	8.18
DIBROMOFLUOROMETHANE	0.479	0.487	0.480	0.474	0.496	0.483	0.483	0.490	0.497	0.487356	1.70
1,1,1-TRICHLOROETHANE	1.460	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.121650	11.64
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.911955	6.50
1,1-Dichloropropene	1.095	1.160	1.135	1.095	1.192	1.090	1.076	1.062	1.109	1.101066	4.43
2,2,4-TRIMETHYLPENTANE	3.770	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.302973	7.30
HEPTANE	1.668	1.530	1.470	1.427	1.540	1.406	1.476	1.414	1.647	1.545771	9.96
BENZENE	2.963	3.198	3.238	3.070	3.253	3.022	3.000	2.920	3.124	3.066151	4.11
1,2-DICHLOROETHANE	0.781	0.846	0.870	0.843	0.865	0.851	0.835	0.804	0.860	0.832961	4.00
TRICHLOROETHENE	0.496	0.427	0.457	0.440	0.460	0.435	0.434	0.419	0.436	0.439315	5.71
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.310	0.300	0.322	0.316984	6.36
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.218859	11.32
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.582004	12.27
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.533715	3.24
2-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.250	0.225	0.268	0.233920	9.36
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.686787	3.94
4-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.160	0.160	0.147	0.134	0.159	0.144961	8.05
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.199456	3.19
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.960	1.973222	7.66
TRANS-1,3-DICHLOROPROPENE		0.164	0.120	0.141	0.146	0.142	0.144	0.137	0.156	0.144122	8.00
1,1,2-TRICHLOROETHANE		2.360	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.099261	6.09
TETRACHLOROETHENE	2.459	2.230	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.160618	5.49
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.800	3.510	3.946	3.797910	4.73
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.858879	14.10
CHLORODIBROMOMETHANE	1.820	2.098	2.166	2.120	2.280	2.285	2.227	2.138	2.383	2.179698	6.91
1,2-DIBROMOETHANE	1.995	1.860	2.086	1.799	1.999	2.090	1.983	1.864	2.092	1.969676	5.48
CHLOROBENZENE	6.599	7.000	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.252049	4.34

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS18
Method Name : V818E01O.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	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.344180	4.22
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.450	4.241	4.273	4.192	4.573	4.389044	3.18
M&P-XYLENE	6.093	5.519	5.629	5.257	5.390	5.258	5.177	5.091	5.543	5.402058	5.46
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.190	5.057880	3.18
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	7.793097	4.11
Bromoform		1.316	1.242	1.317	1.393	1.376	1.330	1.284	1.457	1.343459	5.04
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.10	13.69766	3.82
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.820	2.723305	2.32
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.680802	6.01
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.816410	12.72
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.690	0.775	0.740078	7.50
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.652461	11.91
n-Propylbenzene	15.47	16.27	16.22	15.30	16.79	15.84	15.86	15.68	16.92	16.03722	3.55
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	12.83330	3.46
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.780	2.755	2.986	2.849286	4.24
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	8.975951	4.39
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.29921	4.72
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.38461	3.70
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.50	11.20	10.73	10.65	10.60	11.33	11.10968	5.34
sec-Butylbenzene	13.44	15.78	15.21	14.80	15.74	14.98	14.83	14.42	15.58	14.90843	5.02
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.650	5.280494	5.61
p-Isopropyltoluene	11.38	12.36	11.70	11.47	12.51	11.98	11.98	11.66	12.53	11.95713	3.75
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	13.83472	4.27
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.095870	5.87
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.120	3.972	4.281	4.195189	4.05
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.837166	5.18
n-Butylbenzene	3.910	4.252	3.908	3.909	4.361	4.227	4.161	4.090	4.297	4.099339	4.54
1,2-Dibromo-3-chloropropane			0.177	0.161	0.200	0.201	0.178	0.168	0.196	0.181828	8.28
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.102846	13.49

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS18
Method Name : V818E01O.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	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.640	0.678	0.665975	6.36
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3.000	2.835	3.208	2.996257	7.10
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.140	1.064917	8.29
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.606157	10.24
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.380	1.482	1.411309	11.16
ETHANOL										0.006161	14.31
Bromoethane										0.586820	3.83
2-PROPANOL										0.041218	32.57
Methyl Acetate										0.445643	4.56
ACETONITRILE										0.060219	6.58
ALLYL CHLORIDE										0.391819	3.10
tert-BUTYL ALCOHOL										0.078526	11.20
chloroprene										1.170687	2.97
ETHYL TERT-BUTYL ETHER										2.195122	3.63
PROPIONITRILE										0.078281	5.06
Ethyl Acetate										0.521078	4.60
METHACRYLONITRILE										0.245000	4.26
Cyclohexane										1.266429	4.21
tert-butyl formate										0.582309	2.91
ISOBUTANOL										0.037243	6.06
t-Amyl Alcohol										0.059062	10.75
TERT-AMYL METHYL ETHER										2.010763	4.56
N-BUTANOL										0.010363	9.27
Methyl Cyclohexane										0.990833	16.79
2-nitropropane										0.103258	4.80
METHYL METHACRYLATE										0.315012	4.14
1,4-DIOXANE										0.003241	6.45
n-octane										0.458164	2.98
3,3-DIMETHYL-1-BUTANOL										0.025982	20.92

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Hollman AFB
Instrument ID: VOCMS18
Method Name : V818E01O.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										3.031955	4.04
CIS-1,4-DICHLORO-2-BUTENE										0.771388	4.36
Cyclohexanone										0.081626	12.01
PENTACHLOROETHANE										1.649559	2.50
Hexachloroethane										2.050145	3.05

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS7

Method Name : V807C24O.M Date : 6/1/2015
FileName : 0601_32.D Time : 10:33 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Dichlorodifluoromethane	0.5124	0.5844	14	
Chloromethane	0.6495	0.7065	8.77	>0.1
Vinyl chloride	0.5988	0.6733	12.4	
Bromomethane	0.3235	0.3240	0.17	
Chloroethane	0.1019	0.1037	1.77	**
Trichlorofluoromethane	0.6951	0.7799	12.2	
1,1-Dichloroethene	0.7355	0.8432	14.6	
Acetone	0.3032	0.2889	4.72	
Carbon Disulfide	1.5287	1.5884	3.91	
Methylene Chloride	0.4788	0.4817	0.61	
trans-1,2-Dichloroethene	0.4490	0.4601	2.46	
Methyl tert-butyl ether	1.4086	1.3852	1.67	
1,1-Dichloroethane	0.8736	0.9778	11.9	>0.1
2,2-Dichloropropane	0.7824	0.8226	5.14	
cis-1,2-Dichloroethene	0.5134	0.4846	5.62	
2-Butanone (MEK)	0.0771	0.0743	3.61	
Bromochloromethane	0.2785	0.2706	2.83	
Chloroform	0.8503	0.8822	3.75	
1,1,1-Trichloroethane	0.6939	0.7171	3.34	
Carbon tetrachloride	0.6244	0.6804	8.96	
1,1-Dichloropropene	0.6667	0.7356	10.3	
Benzene	1.8517	1.8733	1.16	
1,2-Dichloroethane	0.6592	0.7286	10.5	
Trichloroethene	0.2594	0.2611	0.63	
1,2-Dichloropropane	0.2096	0.2220	5.89	
Dibromomethane	0.1651	0.1722	4.29	
Bromodichloromethane	0.3943	0.3827	2.94	
cis-1,3-Dichloropropene	0.4785	0.4899	2.38	
4-Methyl-2-pentanone (MIBK)	0.1220	0.1177	3.53	
Toluene	1.1379	1.1922	4.78	
trans-1,3-Dichloropropene	0.1021	0.0919	10	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS7

Method Name : V807C24O.M Date : 6/1/2015
FileName : 0601_32.D Time : 10:33 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.4472	1.2561	13.2	
Tetrachloroethene	1.1674	1.1786	0.95	
1,3-Dichloropropane	2.5240	2.4288	3.77	
2-Hexanone	0.7623	0.7555	0.89	
Chlorodibromomethane	1.4876	1.4123	5.06	
1,2-Dibromoethane	1.4231	1.3116	7.83	
Chlorobenzene	4.0922	3.9828	2.67	>0.3
1,1,1,2-Tetrachloroethane	1.3605	1.2751	6.28	
Ethylbenzene	2.2522	2.2933	1.83	
m&p-Xylene	2.8179	2.7410	2.73	
o-Xylene	2.7163	2.6976	0.69	
Styrene	4.3804	4.2872	2.13	
Bromoform	0.9102	0.8435	7.33	>0.1
Isopropylbenzene	7.3322	7.4417	1.49	
Bromobenzene	3.3685	3.3091	1.76	
1,1,2,2-Tetrachloroethane	1.9610	1.7421	11.2	>0.3
1,2,3-Trichloropropane	0.5194	0.4607	11.3	
n-Propylbenzene	8.6930	9.0205	3.77	
2-Chlorotoluene	1.5828	1.5192	4.02	
4-Chlorotoluene	5.5078	5.3857	2.22	
1,3,5-Trimethylbenzene	6.0751	5.8584	3.57	
tert-Butylbenzene	5.0855	4.8317	4.99	
1,2,4-Trimethylbenzene	6.2950	6.0047	4.61	
sec-Butylbenzene	8.0613	8.0077	0.66	
1,3-Dichlorobenzene	3.3067	3.0243	8.54	
p-Isopropyltoluene	6.6075	6.4223	2.8	
1,4-Dichlorobenzene	1.2430	1.2648	1.76	
1,2-Dichlorobenzene	1.1416	1.2364	8.3	
n-Butylbenzene	2.4235	2.7777	14.6	
1,2-Dibromo-3-Chloropropane	0.1475	0.1204	18.4	
1,2,4-Trichlorobenzene	0.7637	0.8037	5.24	

*** - 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: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS7

Method Name : V807C24O.M Date : 6/1/2015
FileName : 0601_32.D Time : 10:33 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Hexachloro-1,3-butadiene	0.4421	0.4662	5.46
Naphthalene	2.1180	1.8105	14.5
1,2,3-Trichlorobenzene	0.7182	0.6479	9.78

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: VOCMS18

Method Name : V818E01O.M Date : 6/3/2015
FileName : 0603_36.D Time : 9:20 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	0.9020	1.0323	14.4	>0.1
Vinyl chloride	1.0025	1.1414	13.8	
1,1-Dichloroethene	1.1900	1.3573	14.1	
1,1-Dichloroethane	1.3277	1.6220	22.2	>0.1
Chloroform	1.2915	1.4514	12.4	
1,2-Dichloropropane	0.3170	0.3616	14.1	
Toluene	1.9732	2.0902	5.93	
Chlorobenzene	7.2520	7.4730	3.05	>0.3
Ethylbenzene	4.3890	4.3668	0.51	
m&p-Xylene	5.4021	5.2930	2.02	
o-Xylene	5.0579	5.0319	0.51	
Bromoform	1.3435	1.3161	2.04	>0.1
1,1,2,2-Tetrachloroethane	2.8164	3.0351	7.77	>0.3
1,3,5-Trimethylbenzene	11.2992	11.2718	0.24	
1,2,4-Trimethylbenzene	11.1097	10.9763	1.2	
Naphthalene	2.9963	3.1601	5.47	

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Derek Ramey
Date Released : 6/4/2015 11:25:13 AM

Run ID : 060315
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0603_01	INSTBLK	V818E01O						1	1	06/03/15 0908	"water IS/SURR15C12445"
2	0603_01T	INSTBLK								1	06/3/15 0908	
3	0603_02	ICV VMS 25 PPB 15E08398	V818E01O						1	1	06/03/15 0928	"soil IS/SURR15C12445"
3	0603_02-1	ICV VMS 25 PPB 15E08398	V818E01O						1	1	06/03/15 0928	"soil IS/SURR15C12445"
4	0603_03	DNRGROICV	V818E01O						1	1	06/03/15 1005	"water IS/SURR15C12445"
5	0603_04	LCS	V818E01O	WG791181	V8260	SS			1	1	06/03/15 1025	"soil IS/SURR15C12445/SPK15E08399 "
6	0603_04A	LCS	V818E01O	WG793306	V8260TCLC	SS			1	1	06/03/15 1025	"soil IS/SURR15C12445/SPK15E08399 "
7	0603_05	LCSD	V818E01O	WG791181	V8260	SS			1	1	06/03/15 1045	"soil IS/SURR15C12445/SPK15E08399 "
8	0603_05A	LCSD	V818E01O	WG793306	V8260TCLC	SS			1	1	06/03/15 1045	"soil IS/SURR15C12445/SPK15E08399 "
9	0603_06	RL VMS 1 PPB 15E08398	V818E01O						1	1	06/03/15 1106	"soil IS/SURR15C12445"
9	0603_06-1	RL VMS 1 PPB 15E08398	V818E01O						1	1	06/03/15 1106	"soil IS/SURR15C12445"
10	0603_07	INSTBLK	V818E01O						1	1	06/03/15 1126	"water IS/SURR15C12445"
11	0603_08	BLANK	V818E01O	WG791181	V8260	SS			1	1	06/03/15 1146	"soil IS/SURR15C12445"
12	0603_08A	BLANK	V818E01O	WG793306	V8260TCLC	SS			1	1	06/03/15 1146	"soil IS/SURR15C12445"
13	0603_09	MS	V818E01O	WG791181	V8260	SS			5	5	06/03/15 1215	"soil IS/SURR15C12445/SPK15E08399 "
14	0603_10	MSD	V818E01O	WG791181	V8260	SS			5	5	06/03/15 1235	"soil IS/SURR15C12445/SPK15E08399 "
15	0603_11	INSTBLK	V818E01O						1	5	06/03/15 1255	"soil IS/SURR15C12445"
16	0603_12	L766877-03	V818E01O	WG791181	V8260TCL	SS	STATELAB	TN	25	25	06/03/15 1316	"soil IS/SURR15C12445"
17	0603_13	L767125-03	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	50	50	06/03/15 1336	"soil IS/SURR15C12445"
18	0603_14	L767125-04	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1356	"soil IS/SURR15C12445"
19	0603_15	L767125-05	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1416	"soil IS/SURR15C12445"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Derek Ramey
Date Released : 6/4/2015 11:25:13 AM
Run ID : 060315
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
20	0603_16	L767125-08	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1436	"soil IS/SURR15C12445"
21	0603_17	L767125-09	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1456	"soil IS/SURR15C12445"
22	0603_18	L767125-10	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1516	"soil IS/SURR15C12445"
23	0603_19	L767125-11	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	5	5	06/03/15 1536	"soil IS/SURR15C12445"
24	0603_20	L767125-12	V818E01O	WG791181	V8260RBDM	SS	HAHNPOR	OR	100	100	06/03/15 1556	"soil IS/SURR15C12445"
25	0603_21	L767457-14	V818E01O	WG791181	V8260	SS	OREGONDEQ	OR	5	5	06/03/15 1616	"soil IS/SURR15C12445"
26	0603_22	L766924-04	V818E01O	WG793306	V8260TCLC	SS	LABRNY	NY	5	5	06/03/15 1636	"soil IS/SURR15C12445"
27	0603_23	L766924-05	V818E01O	WG793306	V8260TCLC	SS	LABRNY	NY	5	5	06/03/15 1656	"soil IS/SURR15C12445"
28	0603_24	L767121-01	V818E01O	WG791181	V8260AZ	SS	MALCONPAZ	AZ	26.75	26.75	06/03/15 1716	"soil IS/SURR15C12445"
29	0603_25	L767121-02	V818E01O	WG791181	V8260AZ	SS	MALCONPAZ	AZ	24.75	24.75	06/03/15 1736	"soil IS/SURR15C12445"
30	0603_26	L767143-03	V818E01O	WG791181	V8260OXY	SS	ARCADISBP	CA	1	0.69	06/03/15 1756	"soil IS/SURR15C12445"
31	0603_27	L767143-04	V818E01O	WG791181	V8260OXY	SS	ARCADISBP	CA	1	0.76	06/03/15 1817	"soil IS/SURR15C12445"
32	0603_28	L767143-05	V818E01O	WG791181	V8260OXY	SS	ARCADISBP	CA	1	0.74	06/03/15 1837	"soil IS/SURR15C12445"
33	0603_29	L767143-06	V818E01O	WG791181	V8260OXY	SS	ARCADISBP	CA	1	0.88	06/03/15 1857	"soil IS/SURR15C12445"
34	0603_30	L767143-07	V818E01O	WG791181	V8260OXY	SS	ARCADISBP	CA	1	1	06/03/15 1917	"soil IS/SURR15C12445"
35	0603_31	L767143-08	V818E01O	WG791181					1	0.82	06/03/15 1937	"soil IS/SURR15C12445"
36	0603_32	L767096-01	V818E01O	WG791179	V8260BTEX	SS	SHIELDKY	KY	5	5	06/03/15 1957	"soil IS/SURR15C12445"
37	0603_33	MS	V818E01O	WG791179	V8260AP9	SS			5	5	06/03/15 2017	"soil IS/SURR15C12445/SPK15E08399"
38	0603_34	MSD	V818E01O	WG791179	V8260AP9	SS			5	5	06/03/15 2037	"soil IS/SURR15C12445/SPK15E08399"
39	0603_35	INSTBLK	V818E01O						1	1	06/03/15 2100	"soil IS/SURR15C12445"
40	0603_35T	INSTBLK								1	06/3/15 2100	
41	0603_36	ICV VMS 25 PPB 15E08398	V818E01O						1	1	06/03/15 2120	"water IS/SURR15C12445"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Derek Ramey
Date Released : 6/4/2015 11:25:13 AM

Run ID : 060315
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
41	0603_36-1	ICV VMS 25 PPB 15E08398	V818E01O						1	1	06/03/15 2120	"water IS/SURR15C12445"
42	0603_37	INSTBLK	V818E01O						1	1	06/03/15 2150	"soil IS/SURR15C12445"
43	0603_38	BLANK	V818E01O	WG793150	V8260	GW			1	1	06/03/15 2210	"water IS/SURR15C12445"
44	0603_38A	BLANK	V818E01O	WG793455	V8260C	GW			1	1	06/03/15 2210	"water IS/SURR15C12445"
45	0603_38B	BLANK	V818E01O	WG793458	V8260AP9	GW	SCSENGLCA		1	1	06/03/15 2210	"water IS/SURR15C12445"
46	0603_39	L766924-08	V818E01O	WG793455	V8260TCLC	GW	LABRNY	NY	1	1	06/03/15 2230	"water IS/SURR15C12445"
47	0603_40	L766924-09	V818E01O	WG793455	V8260TCLC	GW	LABRNY	NY	1	1	06/03/15 2250	"water IS/SURR15C12445"
48	0603_41	L766924-10	V818E01O	WG793455	V8260TCLC	GW	LABRNY	NY	1	1	06/03/15 2310	"water IS/SURR15C12445"
49	0603_42	DNR L767068-04	V818E01O	WG791355					100	100	06/03/15 2329	"water IS/SURR15C12445"
50	0603_43	INSTBLK	V818E01O						1	1	06/03/15 2349	"water IS/SURR15C12445"
51	0603_44	RL VMS 1 PPB 15E08398	V818E01O						1	1	06/04/15 0010	"water IS/SURR15C12445"
51	0603_44-1	RL VMS 1 PPB 15E08398	V818E01O						1	1	06/04/15 0010	"water IS/SURR15C12445"
52	0603_45	LCS	V818E01O	WG793150	V8260	GW			1	1	06/04/15 0030	"water IS/SURR15C12445/spk15E08399 "
53	0603_45A	LCS	V818E01O	WG793455	V8260C	GW			1	1	06/04/15 0030	"water IS/SURR15C12445/spk15E08399 "
54	0603_45B	LCS	V818E01O	WG793458	V8260AP9	GW	SCSENGLCA		1	1	06/04/15 0030	"water IS/SURR15C12445/spk15E08399 "
55	0603_46	LCSD	V818E01O	WG793150	V8260	GW			1	1	06/04/15 0050	"water IS/SURR15C12445/spk15E08399 "
56	0603_46A	LCSD	V818E01O	WG793455	V8260C	GW			1	1	06/04/15 0050	"water IS/SURR15C12445/spk15E08399 "
57	0603_46B	LCSD	V818E01O	WG793458	V8260AP9	GW	SCSENGLCA		1	1	06/04/15 0050	"water IS/SURR15C12445/spk15E08399 "
58	0603_47	MS	V818E01O	WG793150	V8260	GW			1	1	06/04/15 0110	"water IS/SURR15C12445/spk15E08399 "
59	0603_48	MSD	V818E01O	WG793150	V8260	GW			1	1	06/04/15 0130	"water IS/SURR15C12445"
60	0603_49	INSTBLK	V818E01O						1	1	06/04/15 0150	"water IS/SURR15C12445"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Derek Ramey
Date Released : 6/4/2015 11:25:13 AM

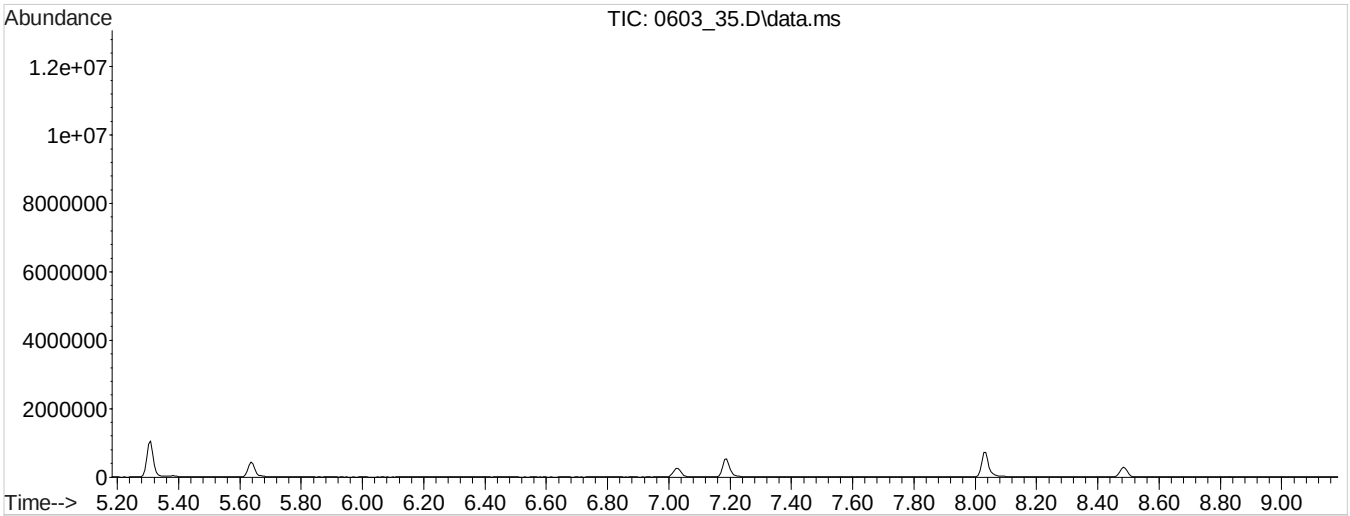
Run ID : 060315
Signature : _____

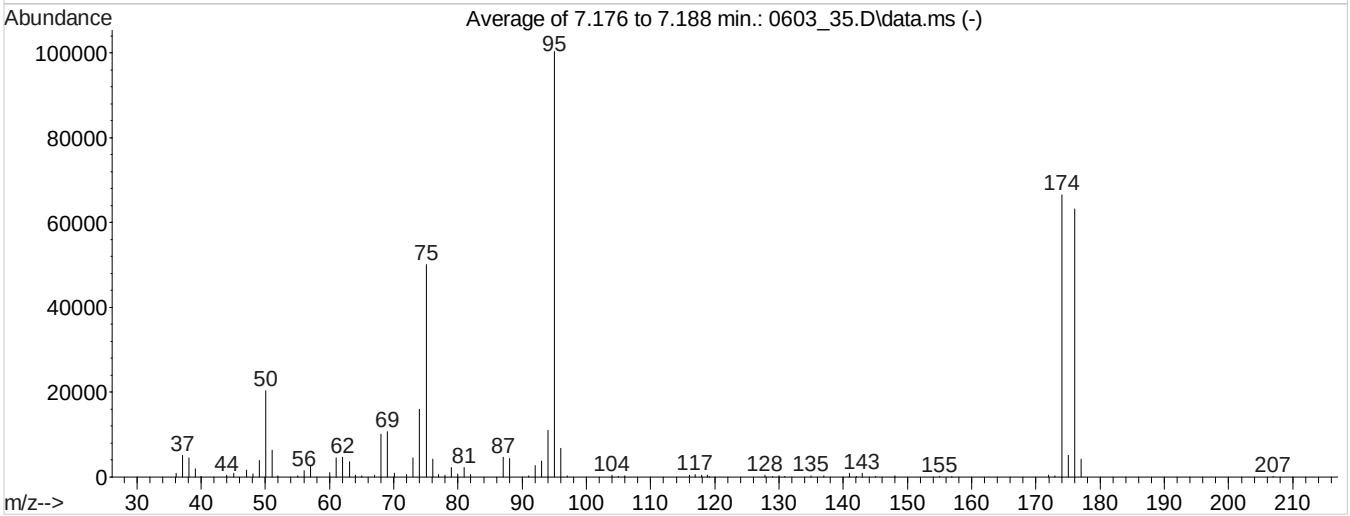
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
61	0603_50	L767114-06	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0210	"water IS/SURR15C12445"
62	0603_51	L766854-09	V818E01O	WG793150	V8260	GW	TVGENV	TN	1	1	06/04/15 0230	"water IS/SURR15C12445"
63	0603_52	L766854-08	V818E01O	WG793150	V8260	GW	TVGENV	TN	1	1	06/04/15 0250	"water IS/SURR15C12445"
64	0603_53	L766993-01	V818E01O	WG793458	V8260AP9	GW	SCSENGLCA	CA	1	1	06/04/15 0310	"water IS/SURR15C12445"
65	0603_54	L766993-02	V818E01O	WG793458	V8260AP9	GW	SCSENGLCA	CA	1	1	06/04/15 0330	"water IS/SURR15C12445"
66	0603_55	L767074-04	V818E01O	WG793150	V8260	GW	ARCADTOK	OK	1	1	06/04/15 0350	"water IS/SURR15C12445"
67	0603_56	L767074-05	V818E01O	WG793150	V8260	GW	ARCADTOK	OK	1	1	06/04/15 0410	"water IS/SURR15C12445"
68	0603_57	L767081-13	V818E01O	WG793150	V8260	GW	TERRDUT	UT	1	1	06/04/15 0430	"water IS/SURR15C12445"
69	0603_58	L767114-01	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0450	"water IS/SURR15C12445"
70	0603_59	L767114-02	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0510	"water IS/SURR15C12445"
71	0603_60	L767114-03	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0558	"water IS/SURR15C12445"
72	0603_61	L767114-04	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0618	"water IS/SURR15C12445"
73	0603_62	L767114-05	V818E01O	WG793455	V8260C	GW	TERRPOR	WA	1	1	06/04/15 0638	"water IS/SURR15C12445"
74	0603_63	L767115-01	V818E01O	WG793150	V8260	GW	URSTAZ	AZ	1	1	06/04/15 0658	"water IS/SURR15C12445"
75	0603_64	L767115-02	V818E01O	WG793150	V8260	GW	URSTAZ	AZ	1	1	06/04/15 0718	"water IS/SURR15C12445"
76	0603_65	L767115-05	V818E01O	WG793150	V8260	GW	URSTAZ	AZ	1	1	06/04/15 0738	"water IS/SURR15C12445"

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 35.D
Acq On : 3 Jun 2015 9:00 pm
Operator : 621
Sample : INSTBLK
Misc : soil IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818E01O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Sun May 03 15:48:49 2015





AutoFind: Scans 1166, 1167, 1168; Background Corrected with Scan 1160

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	20371	PASS
75	95	30	60	49.8	50024	PASS
95	95	100	100	100.0	100387	PASS
96	95	5	9	6.7	6708	PASS
173	174	0.00	2	0.3	202	PASS
174	95	50	150	66.2	66488	PASS
175	174	5	9	7.5	5013	PASS
176	174	95	101	95.1	63240	PASS
177	176	5	9	6.6	4148	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 36.D
Acq On : 3 Jun 2015 9:20 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E08398
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 03 21:32:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.152	168	279196	40.0000000	ppb	-0.01
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	489659	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	80754	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.027	152	212429	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.152	168	279196	40.0000000	ppb	-0.01
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	489659	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	80754	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.027	152	212429	40.0000000	ppb	#-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	144745	42.5508196	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.38%			
46) a,a,a-Trifluorotoluene	4.846	146	260385	39.8540465	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.64%			
50) TOLUENE-D8	5.302	98	626292	42.6538956	ppb	-0.01
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.63%			
68) 4-BROMOFLUOROBENZENE	7.182	95	210553	38.2966831	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.74%			
Target Compounds						Qvalue
3) PROPENE	1.567	41	27866	36.2511917	ppb	98
4) DICHLORODIFLUOROMETHANE	1.615	85	142824	25.3443949	ppb	99
5) CHLOROMETHANE	1.761	50	180133	28.6101721	ppb	99
6) VINYL CHLORIDE	1.840	62	199167	28.4624413	ppb	99
7) 1,3-BUTADIENE	1.847	39	154746	27.5664654	ppb	99
8) BROMOMETHANE	2.078	94	110449	28.1388111	ppb	99
9) CHLOROETHANE	2.175	66	37250	27.2279349	ppb	99
10) TRICHLOROFLUOROMETHANE	2.260	101	209630	29.4830142	ppb	99
11) DICHLOROFLUOROMETHANE	2.297	67	274196	27.7565832	ppb	99
12) ETHYL ETHER	2.449	59	124137	27.3757886	ppb	97
13) ACROLEIN	2.783	56	40753	71.0169514	ppb	97
14) 1,1-DICHLOROETHENE	2.583	61	236853	28.5154168	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.613	101	133601	27.8053330	ppb	98
16) ACETONE	2.954	43	286482	183.4394798	ppb	100
17) IODOMETHANE	2.680	142	978570	133.6612707	ppb	97
18) CARBON DISULFIDE	2.619	76	484852	26.6292406	ppb	99
19) METHYLENE CHLORIDE	2.929	84	147579	27.8603471	ppb	95
20) ACRYLONITRILE	3.404	53	238263	170.0356342	ppb	99
21) n-Hexane	3.057	56	156423	29.0279311	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.027	96	145166	26.5866804	ppb	96
23) METHYL TERT-BUTYL ETHER	3.075	73	372255	28.2483466	ppb	97
24) 1,1-DICHLOROETHANE	3.374	63	283033	30.5406062	ppb	100
25) VINYL ACETATE	3.489	43	1451741	172.0212476	ppb	99
26) DI-ISOPROPYL ETHER	3.270	45	522133	29.3881659	ppb	100
27) 2,2-Dichloropropane	3.739	77	180121	29.0499194	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.672	96	153242	27.0232835	ppb	96
29) 2-BUTANONE (MEK)	3.976	43	405241	186.5690372	ppb	99
30) BROMOCHLOROMETHANE	3.787	130	81515	28.8971810	ppb	93
31) TETRAHYDROFURAN	3.915	42	43190	30.1359849	ppb	90
32) CHLOROFORM	3.812	83	253258	28.0951368	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.945	97	213795	27.3080694	ppb	99
35) CARBON TETRACHLORIDE	3.909	117	181159	28.4601463	ppb	100
36) 1,1-Dichloropropene	4.006	75	226447	29.4648226	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 36.D
Acq On : 3 Jun 2015 9:20 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E08398
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 03 21:32:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.055	57	705766	30.6130450	ppb		99
38)	HEPTANE	4.091	43	301954	27.9863570	ppb	#	100
39)	BENZENE	4.152	78	618432	28.8967659	ppb		100
40)	1,2-DICHLOROETHANE	4.262	62	171767	29.5437498	ppb		99
42)	TRICHLOROETHENE	4.475	130	144858	26.9359960	ppb		98
43)	1,2-DICHLOROPROPANE	4.785	62	110652	28.5160036	ppb		98
44)	DIBROMOMETHANE	4.730	93	72875	27.2006616	ppb		97
45)	BROMODICHLOROMETHANE	4.809	83	185037	25.9716226	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.126	63	429620	150.0319352	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.186	75	237692	28.2721519	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.558	58	284950	160.5771093	ppb		98
51)	TOLUENE	5.339	91	639672	26.4818063	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.588	110	46809	26.5316494	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.697	97	108490	25.5987758	ppb		97
55)	TETRACHLOROETHENE	5.588	164	105093	24.0930499	ppb		98
56)	1,3-Dichloropropane	5.886	76	202214	26.3731787	ppb		99
57)	2-HEXANONE	6.099	58	262016	151.1094945	ppb		99
58)	CHLORODIBROMOMETHANE	5.825	129	113145	25.7119463	ppb		98
59)	1,2-DIBROMOETHANE	5.996	107	103854	26.1170613	ppb		99
60)	CHLOROBENZENE	6.342	112	377172	25.7617074	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.373	133	117835	24.8988495	ppb		97
62)	ETHYLBENZENE	6.342	106	220397	24.8731999	ppb		99
63)	M&P-XYLENE	6.434	106	534290	48.9907075	ppb		99
64)	O-XYLENE	6.744	106	253964	24.8713610	ppb		99
65)	STYRENE	6.780	104	375280	23.8529051	ppb		99
66)	Bromoform	6.817	173	66426	24.4911759	ppb		99
67)	Isopropylbenzene	6.963	105	693602	25.0818612	ppb		99
69)	Bromobenzene	7.267	77	293663	25.6056344	ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.310	83	153187	26.9415156	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.425	110	41621	27.8567920	ppb		95
72)	TRANS-1,4-DICHLORO-2-B...	7.450	53	36647	27.8214436	ppb	#	99
73)	n-Propylbenzene	7.267	91	843777	26.0612145	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	672667	25.9631641	ppb		99
75)	2-Chlorotoluene	7.395	126	134426	23.3691660	ppb		95
76)	4-Chlorotoluene	7.523	91	477046	26.3254471	ppb		99
77)	1,3,5-Trimethylbenzene	7.401	105	568903	24.9393959	ppb		98
78)	tert-Butylbenzene	7.650	119	472939	24.9623270	ppb		100
79)	1,2,4-Trimethylbenzene	7.705	105	553990	24.6999672	ppb		99
80)	sec-Butylbenzene	7.784	105	762705	25.3408251	ppb		100
81)	1,3-DICHLOROBENZENE	7.973	146	275768	25.8681454	ppb		99
82)	p-Isopropyltoluene	7.888	119	620714	25.7134671	ppb		100
83)	DICYCLOPENTADIENE	7.888	66	757174	27.1094762	ppb		98
85)	1,4-DICHLOROBENZENE	8.040	146	281259	25.2690070	ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.046	105	566748	25.4380971	ppb		100
87)	1,2-DICHLOROBENZENE	8.374	146	253617	25.9941811	ppb		99
88)	n-Butylbenzene	8.222	91	605388	27.8077697	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.019	157	25696	26.6104261	ppb		98
90)	1,2,4-Trichlorobenzene	9.573	180	157473	26.8866923	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.530	225	89870	25.4099076	ppb		99
92)	Naphthalene	9.840	128	419566	26.3674094	ppb		99
93)	1,2,3-Trichlorobenzene	9.999	180	147407	26.0644570	ppb		98
94)	1-Methylnaphthalene	10.722	142	216898	25.4280954	ppb		99
95)	2-Methylnaphthalene	10.850	142	196770	26.2532340	ppb		98
97)	ETHANOL	2.528	45	8067	187.6015550	ppb	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 36.D
Acq On : 3 Jun 2015 9:20 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E08398
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 03 21:32:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

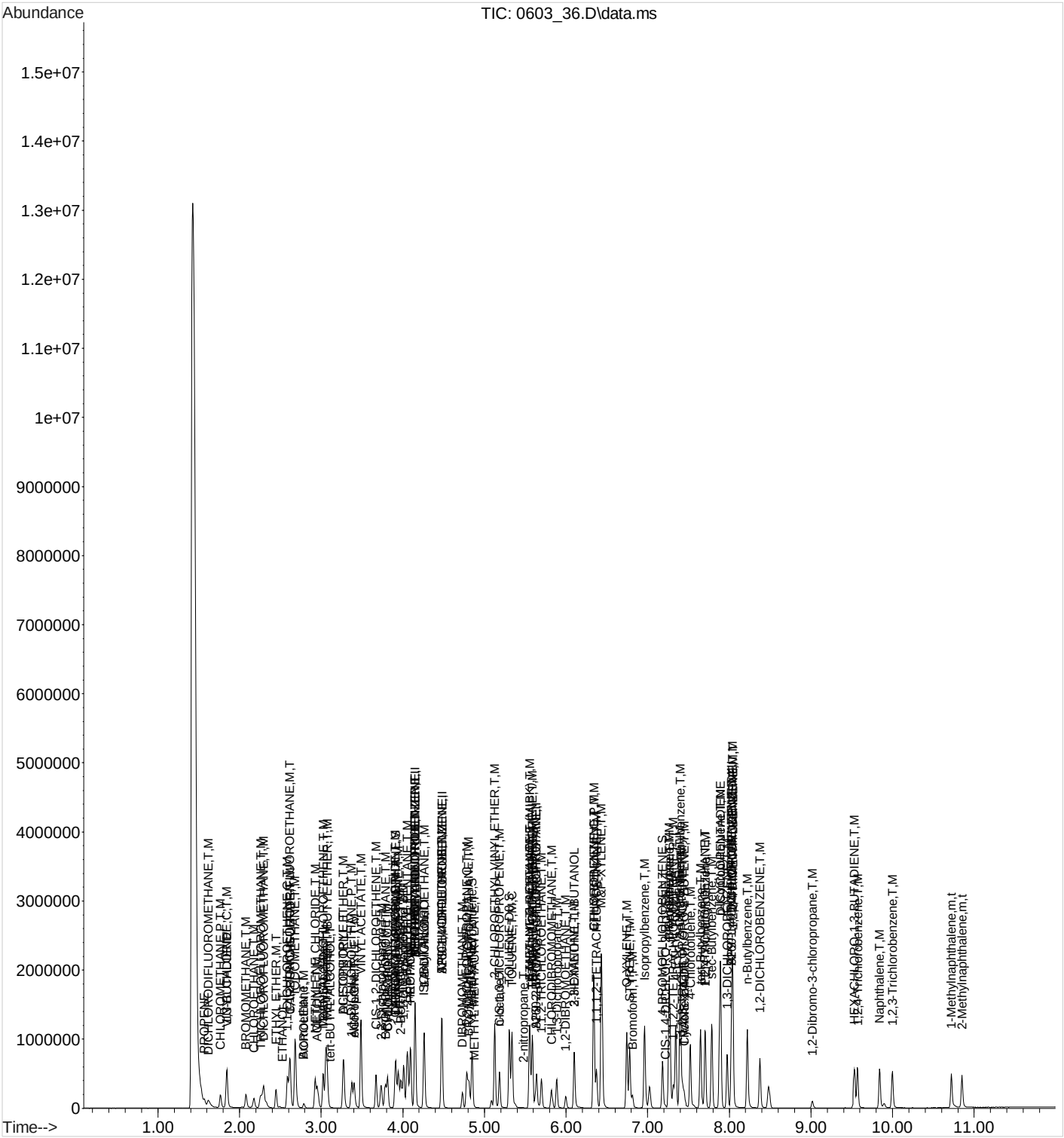
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98)	Bromoethane	2.777	108	2528	0.6171960	ppb		94
100)	Methyl Acetate	3.021	43	15027	4.8309910	ppb	#	72
101)	ACETONITRILE	3.270	41	84999	202.2239381	ppb	#	39
103)	tert-BUTYL ALCOHOL	3.112	59	693	1.2643608	ppb	#	59
104)	chloroprene	3.404	53	238263	29.1585956	ppb	#	25
106)	PROPIONITRILE	4.091	54	3027	5.5399690	ppb	#	1
108)	METHACRYLONITRILE	4.152	67	856	0.5005619	ppb	#	1
109)	Cyclohexane	3.812	84	9566	1.0821823	ppb	#	15
111)	ISOBUTANOL	4.256	43	21899	84.2424225	ppb	#	96
112)	t-Amyl Alcohol	4.262	59	18053	43.7917467	ppb	#	43
113)	TERT-AMYL METHYL ETHER	4.152	73	10142	0.7226257	ppb	#	1
117)	2-nitropropane	5.478	43	629	0.4976135	ppb	#	1
118)	METHYL METHACRYLATE	4.876	41	1304	0.3381562	ppb	#	16
119)	1,4-DIOXANE	4.840	88	3395	85.5659528	ppb	#	37
120)	n-octane	5.186	85	3017	0.5379235	ppb	#	31
121)	3,3-DIMETHYL-1-BUTANOL	6.099	57	88018	245.1356013	ppb	#	44
123)	ETHYL METHACRYLATE	5.558	69	5387	0.8800760	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.218	53	2187	1.4043394	ppb	#	16
125)	Cyclohexanone	7.450	55	953	5.7831165	ppb	#	1
126)	PENTACHLOROETHANE	7.699	117	18995	5.7038398	ppb	#	16

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 36.D
Acq On : 3 Jun 2015 9:20 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E08398
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 03 21:32:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 38.D
Acq On : 3 Jun 2015 10:10 pm
Operator : 621
Sample : BLANK 1x WG793150
Misc : water IS/SURR15C12445
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:44:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

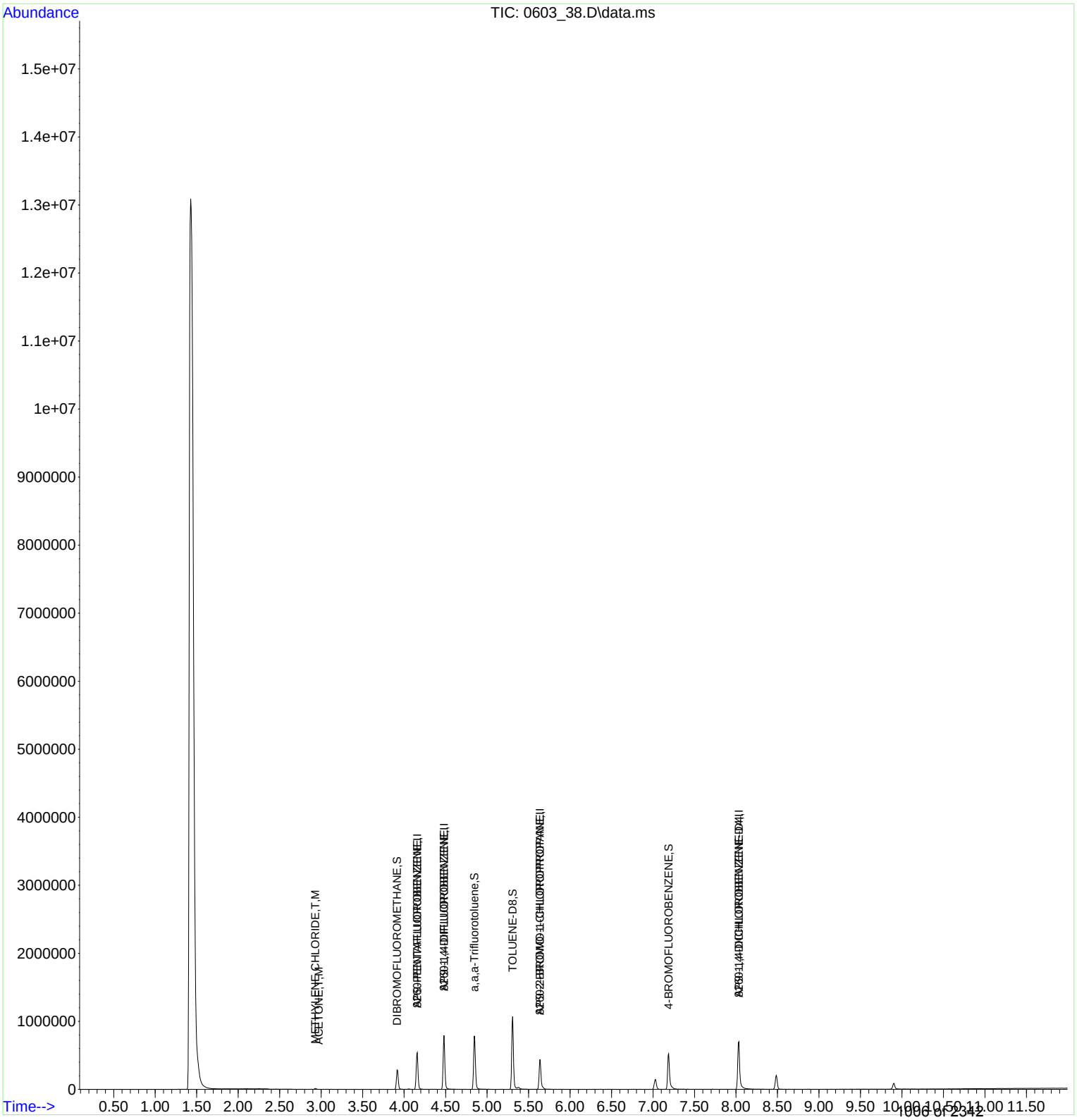
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.159	168	269079	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	479356	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	77611	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	192197	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.159	168	269079	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	479356	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	77611	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	192197	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.915	111	143203	43.6803251 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.20%		
46) a,a,a-Trifluorotoluene	4.846	146	258241	40.3754364 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.94%		
50) TOLUENE-D8	5.308	98	608569	42.3376976 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.84%		
68) 4-BROMOFLUOROBENZENE	7.188	95	200234	37.8946862 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.74%		
Target Compounds					Qvalue
16) ACETONE	2.972	43	730	0.4850067 ppb	# 42
19) METHYLENE CHLORIDE	2.930	84	4872	0.9543301 ppb	98

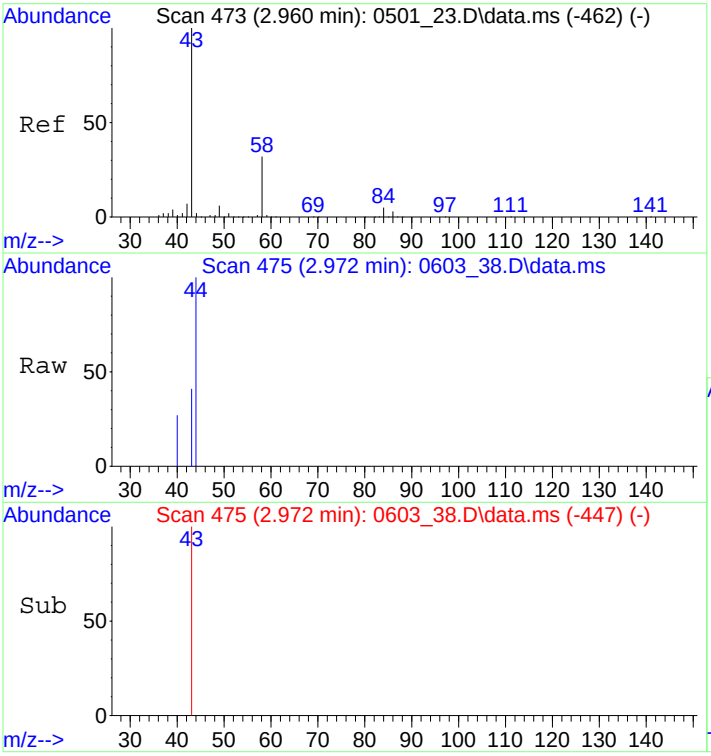
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 38.D
Acq On : 3 Jun 2015 10:10 pm
Operator : 621
Sample : BLANK 1x WG793150
Misc : water IS/SURR15C12445
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:44:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

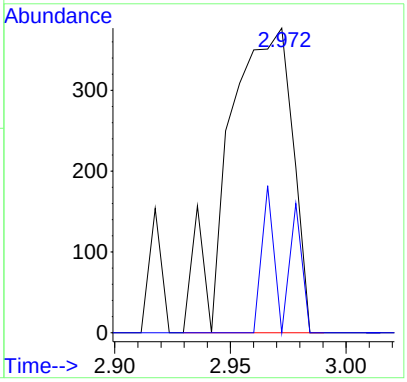


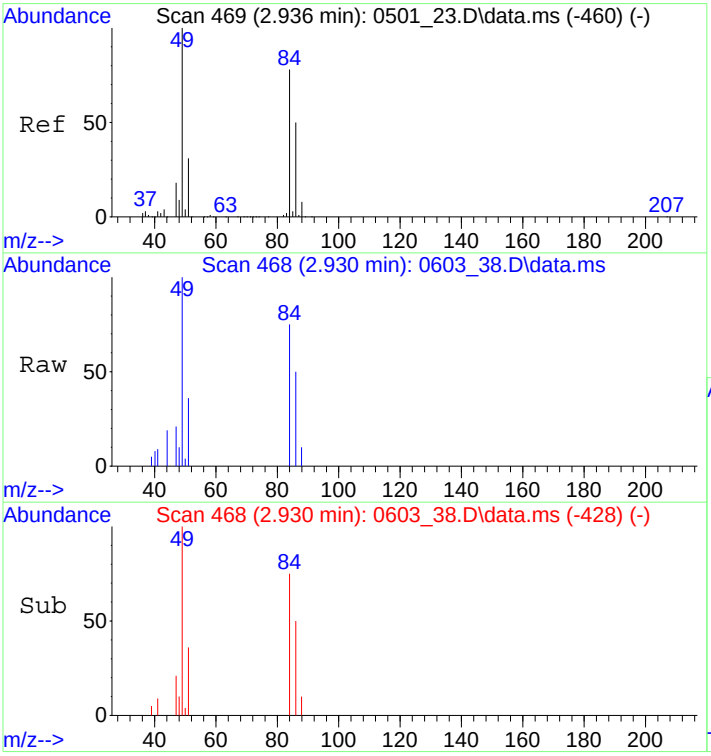


#16
ACETONE
Concen: 0.4850067 ppb
RT: 2.972 min Scan# 475
Delta R.T. 0.013 min
Lab File: 0603 38.D
Acq: 3 Jun 2015 10:10 pm

Tgt Ion: 43 Resp: 730

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.1	39.1#

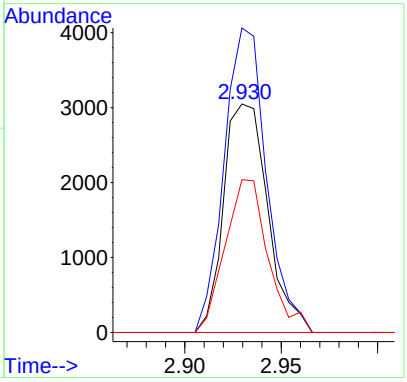




#19
METHYLENE CHLORIDE
Concen: 0.9543301 ppb
RT: 2.930 min Scan# 468
Delta R.T. -0.005 min
Lab File: 0603_38.D
Acq: 3 Jun 2015 10:10 pm

Tgt Ion: 84 Resp: 4872

Ion	Ratio	Lower	Upper
84	100		
49	127.5	103.3	154.9
86	65.0	50.8	76.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 45.D
Acq On : 4 Jun 2015 12:30 am
Operator : 621
Sample : LCS 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 48 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:06 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.158	168	294705	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	524327	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	85497	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.028	152	222732	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	294705	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	524327	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	85497	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.028	152	222732	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	153868	42.8523216	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.13%			
46) a,a,a-Trifluorotoluene	4.846	146	270922	38.7250737	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 96.81%			
50) TOLUENE-D8	5.302	98	664877	42.2877585	ppb	-0.01
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.72%			
68) 4-BROMOFLUOROBENZENE	7.182	95	225188	38.6863840	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.72%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	26610	32.6848783	ppb	97
4) DICHLORODIFLUOROMETHANE	1.622	85	138590	23.2988410	ppb	99
5) CHLOROMETHANE	1.761	50	177542	26.7146805	ppb	99
6) VINYL CHLORIDE	1.841	62	193492	26.1962705	ppb	98
7) 1,3-BUTADIENE	1.847	39	152477	25.7328376	ppb	99
8) BROMOMETHANE	2.084	94	106807	25.7789580	ppb	98
9) CHLOROETHANE	2.175	66	36188	25.0596324	ppb	98
10) TRICHLOROFLUOROMETHANE	2.260	101	200185	26.6729879	ppb	99
11) DICHLOROFLUOROMETHANE	2.297	67	264061	25.3239146	ppb	98
12) ETHYL ETHER	2.449	59	119406	24.9467073	ppb	97
13) ACROLEIN	2.790	56	36150	59.6804968	ppb	98
14) 1,1-DICHLOROETHENE	2.583	61	230999	26.3470880	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.613	101	131022	25.8335627	ppb	96
16) ACETONE	2.954	43	246423	149.4852694	ppb	100
17) IODOMETHANE	2.686	142	945811	122.3882532	ppb	97
18) CARBON DISULFIDE	2.619	76	468046	24.3534120	ppb	99
19) METHYLENE CHLORIDE	2.930	84	146029	26.1169681	ppb	97
20) ACRYLONITRILE	3.404	53	212953	143.9755646	ppb	99
21) n-Hexane	3.057	56	152542	26.8180130	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.027	96	141225	24.5037456	ppb	95
23) METHYL TERT-BUTYL ETHER	3.076	73	358229	25.7534206	ppb	97
24) 1,1-DICHLOROETHANE	3.374	63	279826	28.6055518	ppb	99
25) VINYL ACETATE	3.489	43	1253691	140.7359817	ppb	99
26) DI-ISOPROPYL ETHER	3.276	45	517432	27.5909282	ppb	99
27) 2,2-Dichloropropane	3.739	77	171703	26.2349447	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.672	96	149281	24.9394303	ppb	95
29) 2-BUTANONE (MEK)	3.976	43	348495	152.0002951	ppb	97
30) BROMOCHLOROMETHANE	3.787	130	78155	26.2480110	ppb	92
31) TETRAHYDROFURAN	3.915	42	37628	24.8733917	ppb	98
32) CHLOROFORM	3.812	83	246216	25.8765240	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.945	97	210399	25.4600243	ppb	99
35) CARBON TETRACHLORIDE	3.909	117	174988	26.0439690	ppb	99
36) 1,1-Dichloropropene	4.006	75	220331	27.1602994	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 45.D
Acq On : 4 Jun 2015 12:30 am
Operator : 621
Sample : LCS 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 48 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:06 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.055	57	719906	29.5830725	ppb		98
38)	HEPTANE	4.091	43	302873	26.5942551	ppb	#	97
39)	BENZENE	4.152	78	607969	26.9128946	ppb		99
40)	1,2-DICHLOROETHANE	4.262	62	165860	27.0264644	ppb		99
42)	TRICHLOROETHENE	4.475	130	140282	24.3603780	ppb		97
43)	1,2-DICHLOROPROPANE	4.785	62	107384	25.8440450	ppb		99
44)	DIBROMOMETHANE	4.730	93	71462	24.9096477	ppb		95
45)	BROMODICHLOROMETHANE	4.809	83	183197	24.0132190	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.126	63	407016	132.7401248	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.187	75	231492	25.7141283	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.558	58	259672	136.6569163	ppb		100
51)	TOLUENE	5.339	91	624337	24.1379763	ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.588	110	45202	23.9267690	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.698	97	105438	23.4984824	ppb		97
55)	TETRACHLOROETHENE	5.588	164	103091	22.3229666	ppb		98
56)	1,3-Dichloropropane	5.886	76	197837	24.3709210	ppb		99
57)	2-HEXANONE	6.099	58	236403	128.7745650	ppb		99
58)	CHLORODIBROMOMETHANE	5.825	129	111849	24.0073851	ppb		98
59)	1,2-DIBROMOETHANE	6.002	107	98396	23.3717747	ppb		99
60)	CHLOROBENZENE	6.342	112	368434	23.7688444	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.373	133	116339	23.2189976	ppb		98
62)	ETHYLBENZENE	6.342	106	213204	22.7266015	ppb		99
63)	M&P-XYLENE	6.434	106	517091	44.7833741	ppb		99
64)	O-XYLENE	6.744	106	245253	22.6858412	ppb		98
65)	STYRENE	6.780	104	367513	22.0633642	ppb		99
66)	Bromoform	6.817	173	62841	21.8840546	ppb		99
67)	Isopropylbenzene	6.963	105	668804	22.8434372	ppb		99
69)	Bromobenzene	7.267	77	286374	23.5848469	ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.316	83	140867	23.4003603	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.431	110	38579	24.3883671	ppb	#	84
72)	TRANS-1,4-DICHLORO-2-B...	7.450	53	33071	23.7138314	ppb	#	98
73)	n-Propylbenzene	7.267	91	812431	23.7009973	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	639949	23.3300693	ppb		100
75)	2-Chlorotoluene	7.395	126	131588	21.6067472	ppb		98
76)	4-Chlorotoluene	7.523	91	452029	23.5610675	ppb		99
77)	1,3,5-Trimethylbenzene	7.401	105	550246	22.7833598	ppb		98
78)	tert-Butylbenzene	7.650	119	457392	22.8024584	ppb		100
79)	1,2,4-Trimethylbenzene	7.705	105	539406	22.7155570	ppb		99
80)	sec-Butylbenzene	7.784	105	743772	23.3408760	ppb		99
81)	1,3-DICHLOROBENZENE	7.973	146	262391	23.2478891	ppb		100
82)	p-Isopropyltoluene	7.888	119	590258	23.0953287	ppb		99
83)	DICYCLOPENTADIENE	7.888	66	741368	25.0710451	ppb		98
85)	1,4-DICHLOROBENZENE	8.040	146	266159	22.8062610	ppb		96
86)	1,2,3-TRIMETHYLBENZENE	8.046	105	553940	23.7131113	ppb		99
87)	1,2-DICHLOROBENZENE	8.374	146	248925	24.3331023	ppb		99
88)	n-Butylbenzene	8.222	91	560998	24.5767726	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.019	157	23154	22.8688076	ppb		95
90)	1,2,4-Trichlorobenzene	9.573	180	146695	23.8878891	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.536	225	84879	22.8886294	ppb		99
92)	Naphthalene	9.840	128	382838	22.9463388	ppb		99
93)	1,2,3-Trichlorobenzene	9.999	180	138105	23.2900899	ppb		99
94)	1-Methylnaphthalene	10.723	142	194212	21.7152850	ppb		99
95)	2-Methylnaphthalene	10.850	142	180731	22.9978778	ppb		97
98)	Bromoethane	2.771	108	2208	0.5107011	ppb		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 45.D
Acq On : 4 Jun 2015 12:30 am
Operator : 621
Sample : LCS 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 48 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:06 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

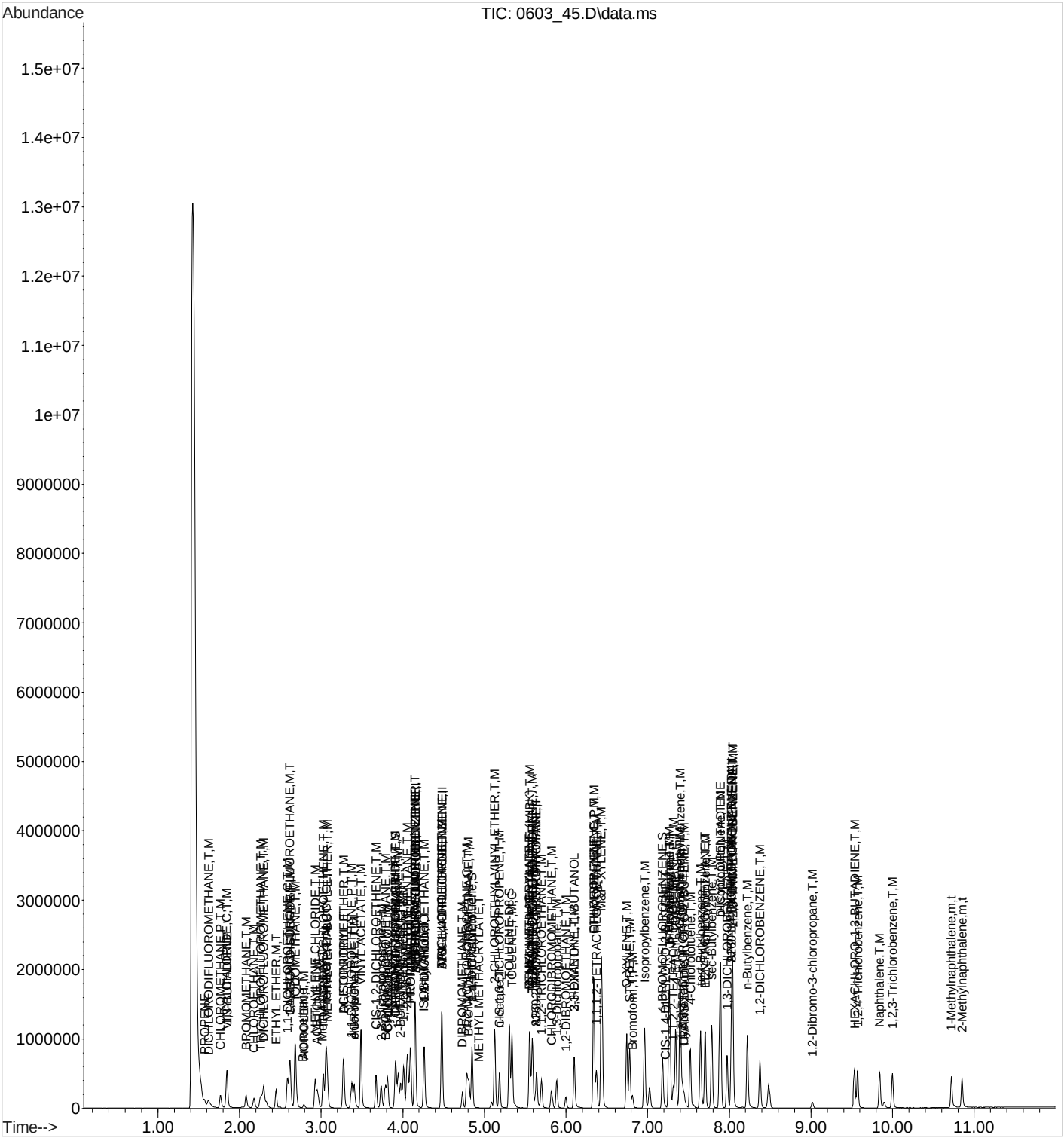
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) Methyl Acetate	3.015	43	16505	5.0269106	ppb	#	79
101) ACETONITRILE	3.276	41	83970	189.2625068	ppb	#	38
103) tert-BUTYL ALCOHOL	3.063	59	1200	2.0741527	ppb	#	1
104) chloroprene	3.404	53	212953	24.6896792	ppb	#	25
106) PROPIONITRILE	4.098	54	2538	4.4005628	ppb	#	1
108) METHACRYLONITRILE	4.158	67	935	0.5179851	ppb	#	1
109) Cyclohexane	3.812	84	9453	1.0131212	ppb	#	15
111) ISOBUTANOL	4.256	43	17791	64.8378508	ppb	#	94
112) t-Amyl Alcohol	4.262	59	13332	30.6379624	ppb	#	40
113) TERT-AMYL METHYL ETHER	4.152	73	11107	0.7497358	ppb	#	1
117) 2-nitropropane	5.558	43	665622	491.7685036	ppb	#	39
118) METHYL METHACRYLATE	4.931	41	1634	0.3957157	ppb	#	16
119) 1,4-DIOXANE	4.846	88	3693	86.9224661	ppb	#	35
120) n-octane	5.187	85	3021	0.5030225	ppb	#	32
121) 3,3-DIMETHYL-1-BUTANOL	6.099	57	76304	199.5710843	ppb	#	41
123) ETHYL METHACRYLATE	5.552	69	4710	0.7267872	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.218	53	1802	1.0929272	ppb	#	17
125) Cyclohexanone	7.444	55	896	5.1355885	ppb	#	1
126) PENTACHLOROETHANE	7.699	117	18484	5.2424844	ppb	#	15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 45.D
Acq On : 4 Jun 2015 12:30 am
Operator : 621
Sample : LCS 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 48 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:06 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 46.D
Acq On : 4 Jun 2015 12:50 am
Operator : 621
Sample : LCSD 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 49 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:22 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.152	168	302469	40.0000000	ppb	-0.01
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	530394	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	88634	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.027	152	218594	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.152	168	302469	40.0000000	ppb	-0.01
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	530394	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	88634	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.027	152	218594	40.0000000	ppb	#-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	154074	41.8082547	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.52%			
46) a,a,a-Trifluorotoluene	4.846	146	276740	39.1042118	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 97.76%			
50) TOLUENE-D8	5.308	98	681486	42.8483314	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.12%			
68) 4-BROMOFLUOROBENZENE	7.182	95	225512	37.3708588	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.43%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	26710	31.9400373	ppb	97
4) DICHLORODIFLUOROMETHANE	1.621	85	139164	22.7948091	ppb	99
5) CHLOROMETHANE	1.767	50	179458	26.3098477	ppb	99
6) VINYL CHLORIDE	1.840	62	198521	26.1872287	ppb	99
7) 1,3-BUTADIENE	1.847	39	156017	25.6544020	ppb	99
8) BROMOMETHANE	2.084	94	105775	24.8745545	ppb	99
9) CHLOROETHANE	2.175	66	35986	24.2800917	ppb	99
10) TRICHLOROFLUOROMETHANE	2.266	101	203633	26.4359504	ppb	99
11) DICHLOROFLUOROMETHANE	2.303	67	264442	24.7094822	ppb	99
12) ETHYL ETHER	2.449	59	125467	25.5401374	ppb	97
13) ACROLEIN	2.789	56	35900	57.7464393	ppb	96
14) 1,1-DICHLOROETHENE	2.583	61	239113	26.5724956	ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	132638	25.4808950	ppb	97
16) ACETONE	2.954	43	261637	154.6403958	ppb	99
17) IODOMETHANE	2.680	142	980111	123.5712025	ppb	97
18) CARBON DISULFIDE	2.619	76	486860	24.6820943	ppb	99
19) METHYLENE CHLORIDE	2.929	84	153436	26.7373000	ppb	96
20) ACRYLONITRILE	3.404	53	219977	144.9068568	ppb	98
21) n-Hexane	3.057	56	161418	27.6500395	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.027	96	147299	24.9016041	ppb	96
23) METHYL TERT-BUTYL ETHER	3.075	73	376911	26.4009544	ppb	97
24) 1,1-DICHLOROETHANE	3.374	63	290691	28.9534610	ppb	99
25) VINYL ACETATE	3.489	43	1276699	139.6399840	ppb	99
26) DI-ISOPROPYL ETHER	3.270	45	547966	28.4690696	ppb	100
27) 2,2-Dichloropropane	3.739	77	173175	25.7806641	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.672	96	156774	25.5189421	ppb	96
29) 2-BUTANONE (MEK)	3.976	43	371868	158.0313759	ppb	97
30) BROMOCHLOROMETHANE	3.787	130	82684	27.0562588	ppb	92
31) TETRAHYDROFURAN	3.921	42	39759	25.6074280	ppb	93
32) CHLOROFORM	3.812	83	258622	26.4826698	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.945	97	216409	25.5150894	ppb	99
35) CARBON TETRACHLORIDE	3.909	117	190407	27.6114012	ppb	100
36) 1,1-Dichloropropene	4.006	75	226040	27.1488151	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 46.D
Acq On : 4 Jun 2015 12:50 am
Operator : 621
Sample : LCSD 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 49 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:22 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.055	57	694230	27.7956924	ppb		99
38)	HEPTANE	4.091	43	325098	27.8130235	ppb	#	97
39)	BENZENE	4.152	78	643529	27.7557988	ppb		100
40)	1,2-DICHLOROETHANE	4.262	62	176602	28.0381804	ppb		100
42)	TRICHLOROETHENE	4.475	130	147879	25.3858786	ppb		97
43)	1,2-DICHLOROPROPANE	4.785	62	115819	27.5552491	ppb		99
44)	DIBROMOMETHANE	4.730	93	74452	25.6550229	ppb		95
45)	BROMODICHLOROMETHANE	4.809	83	193376	25.0575275	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.126	63	454586	146.5582990	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.186	75	248655	27.3046514	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.558	58	279391	145.3525065	ppb		100
51)	TOLUENE	5.339	91	669052	25.5708566	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.588	110	49366	25.8319960	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.697	97	114224	24.5555998	ppb		97
55)	TETRACHLOROETHENE	5.588	164	110772	23.1372469	ppb		98
56)	1,3-Dichloropropane	5.886	76	216020	25.6689978	ppb		100
57)	2-HEXANONE	6.099	58	262128	137.7339646	ppb		99
58)	CHLORODIBROMOMETHANE	5.825	129	119622	24.7670534	ppb		99
59)	1,2-DIBROMOETHANE	6.002	107	107632	24.6607446	ppb		99
60)	CHLOROBENZENE	6.342	112	396097	24.6490648	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.373	133	122430	23.5698336	ppb	#	97
62)	ETHYLBENZENE	6.336	106	227455	23.3875734	ppb		99
63)	M&P-XYLENE	6.434	106	552973	46.1959908	ppb		98
64)	O-XYLENE	6.744	106	260787	23.2689628	ppb		97
65)	STYRENE	6.780	104	394629	22.8527544	ppb		99
66)	Bromoform	6.817	173	68398	22.9762227	ppb		99
67)	Isopropylbenzene	6.963	105	714339	23.5351775	ppb		99
69)	Bromobenzene	7.267	77	307008	24.3893202	ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.310	83	146823	23.5265313	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.431	110	40254	24.5465990	ppb	#	84
72)	TRANS-1,4-DICHLORO-2-B...	7.450	53	35828	24.7814944	ppb	#	98
73)	n-Propylbenzene	7.267	91	863793	24.3075027	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	681096	23.9513237	ppb		99
75)	2-Chlorotoluene	7.395	126	137989	21.8558700	ppb		98
76)	4-Chlorotoluene	7.523	91	487496	24.5103915	ppb		99
77)	1,3,5-Trimethylbenzene	7.401	105	576686	23.0330160	ppb		99
78)	tert-Butylbenzene	7.650	119	474794	22.8322576	ppb		99
79)	1,2,4-Trimethylbenzene	7.699	105	561159	22.7952352	ppb		99
80)	sec-Butylbenzene	7.784	105	782372	23.6832420	ppb		99
81)	1,3-DICHLOROBENZENE	7.973	146	277964	23.7560194	ppb		100
82)	p-Isopropyltoluene	7.888	119	612930	23.1336239	ppb		99
83)	DICYCLOPENTADIENE	7.888	66	778888	25.4076291	ppb		97
85)	1,4-DICHLOROBENZENE	8.040	146	278781	24.3399951	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.046	105	575150	25.0871494	ppb		99
87)	1,2-DICHLOROBENZENE	8.374	146	256964	25.5944399	ppb		98
88)	n-Butylbenzene	8.222	91	589835	26.3292481	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.019	157	23426	23.5754511	ppb		98
90)	1,2,4-Trichlorobenzene	9.567	180	144914	24.0445795	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.530	225	83544	22.9550994	ppb		99
92)	Naphthalene	9.840	128	376128	22.9709209	ppb		99
93)	1,2,3-Trichlorobenzene	9.999	180	135303	23.2494974	ppb		100
94)	1-Methylnaphthalene	10.722	142	184520	21.0221581	ppb		99
95)	2-Methylnaphthalene	10.850	142	170834	22.1500036	ppb		99
98)	Bromoethane	2.777	108	3356	0.7563038	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 46.D
Acq On : 4 Jun 2015 12:50 am
Operator : 621
Sample : LCSD 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 49 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:22 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

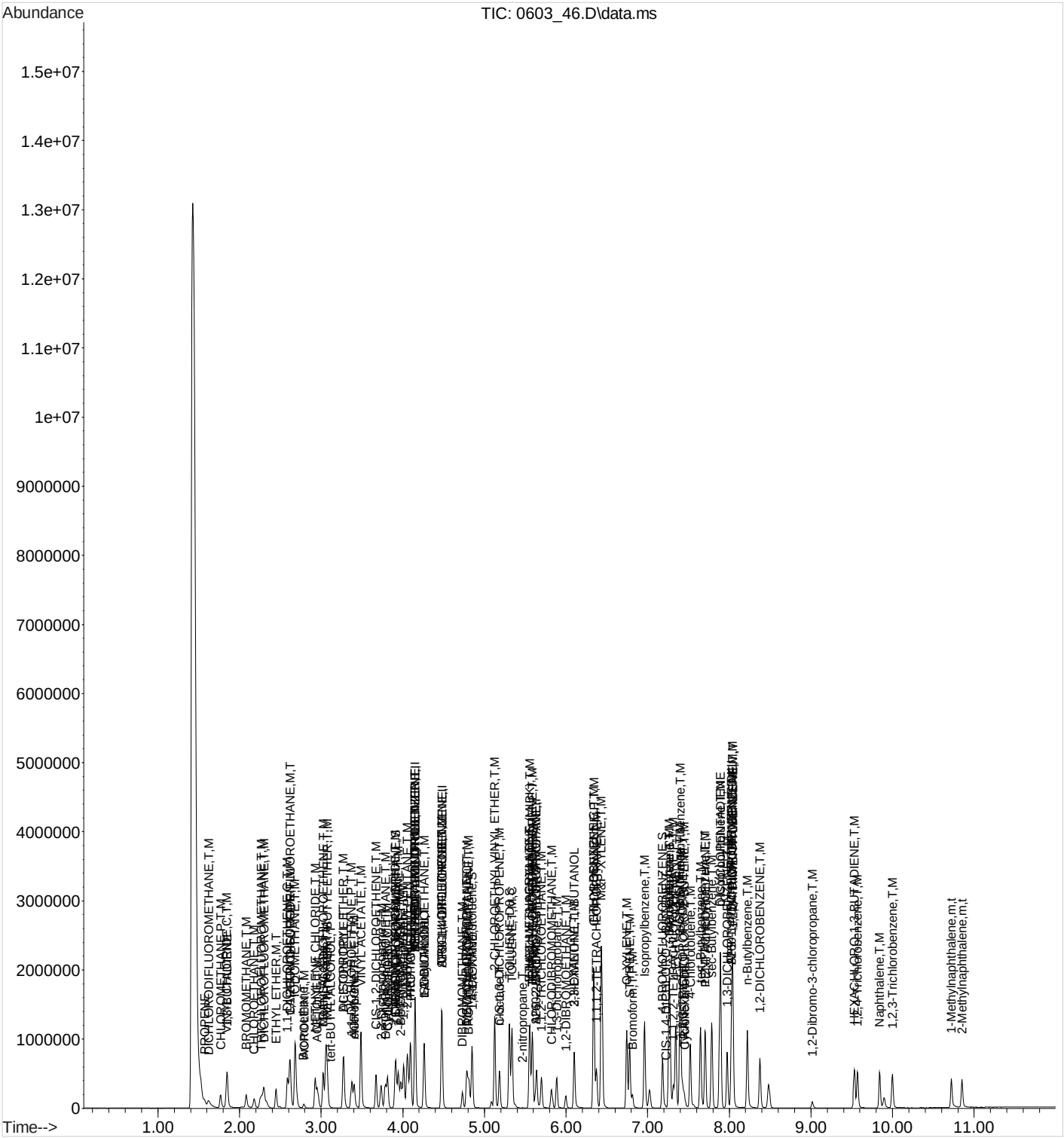
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Methyl Acetate	3.021	43	18916	5.6133429	ppb #	79
101) ACETONITRILE	3.276	41	89532	196.6189419	ppb #	39
103) tert-BUTYL ALCOHOL	3.118	59	527	0.8875171	ppb #	59
104) chloroprene	3.404	53	219977	24.8493820	ppb #	25
106) PROPIONITRILE	4.097	54	2939	4.9650408	ppb #	1
108) METHACRYLONITRILE	4.152	67	981	0.5295187	ppb #	1
109) Cyclohexane	3.812	84	9870	1.0306602	ppb #	12
111) ISOBUTANOL	4.262	43	17134	60.8406223	ppb #	93
112) t-Amyl Alcohol	4.262	59	13653	30.5702717	ppb #	43
113) TERT-AMYL METHYL ETHER	4.152	73	11584	0.7618626	ppb #	1
117) 2-nitropropane	5.466	43	963	0.7033362	ppb #	1
118) METHYL METHACRYLATE	4.785	41	89511	21.4294635	ppb #	16
119) 1,4-DIOXANE	4.852	88	3615	84.1132963	ppb #	38
120) n-octane	5.186	85	3317	0.5459914	ppb #	33
121) 3,3-DIMETHYL-1-BUTANOL	6.099	57	88471	227.8938931	ppb #	47
123) ETHYL METHACRYLATE	5.551	69	5209	0.7753383	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.224	53	2013	1.1776894	ppb #	20
125) Cyclohexanone	7.456	55	1008	5.5730542	ppb #	24
126) PENTACHLOROETHANE	7.705	117	18710	5.1187686	ppb #	15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 46.D
Acq On : 4 Jun 2015 12:50 am
Operator : 621
Sample : LCSD 1x WG793150
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 49 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:22 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 47.D
Acq On : 4 Jun 2015 1:10 am
Operator : 621
Sample : MS 1x WG793150 L766854-09
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 50 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:59 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.158	168	274271	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	487889	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	80302	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.027	152	209792	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	274271	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	487889	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	80302	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.027	152	209792	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.915	111	141742	42.4162448 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.04%		
46) a,a,a-Trifluorotoluene	4.846	146	250964	38.5514399 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 96.38%		
50) TOLUENE-D8	5.302	98	603700	41.2644183 ppb	-0.01
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.16%		
68) 4-BROMOFLUOROBENZENE	7.182	95	209913	38.3951832 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.99%		
Target Compounds					Qvalue
3) PROPENE	1.573	41	27624	36.5922483 ppb	97
4) DICHLORODIFLUOROMETHANE	1.621	85	137272	24.7965921 ppb	98
5) CHLOROMETHANE	1.767	50	172965	27.9649934 ppb	99
6) VINYL CHLORIDE	1.841	62	193042	28.0825070 ppb	100
7) 1,3-BUTADIENE	1.847	39	151940	27.5526310 ppb	99
8) BROMOMETHANE	2.084	94	102861	26.6762021 ppb	98
9) CHLOROETHANE	2.175	66	35432	26.3641270 ppb	98
10) TRICHLOROFLUOROMETHANE	2.260	101	198704	28.4481716 ppb	99
11) DICHLOROFLUOROMETHANE	2.297	67	258881	26.6768391 ppb	99
12) ETHYL ETHER	2.449	59	121241	27.2172477 ppb	97
13) ACROLEIN	2.790	56	105444	187.0482352 ppb	100
14) 1,1-DICHLOROETHENE	2.583	61	227167	27.8403941 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.613	101	128067	27.1321950 ppb	98
16) ACETONE	2.954	43	173599	113.1545421 ppb	99
17) IODOMETHANE	2.680	142	935080	130.0144904 ppb	96
18) CARBON DISULFIDE	2.619	76	464884	25.9910301 ppb	99
19) METHYLENE CHLORIDE	2.929	84	142112	27.3100197 ppb	95
20) ACRYLONITRILE	3.404	53	238774	173.4601336 ppb	98
21) n-Hexane	3.057	56	151990	28.7117583 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.027	96	139685	26.0422365 ppb	94
23) METHYL TERT-BUTYL ETHER	3.075	73	369718	28.5596177 ppb	99
24) 1,1-DICHLOROETHANE	3.374	63	277154	30.4432512 ppb	99
25) VINYL ACETATE	3.489	43	1490083	179.7350235 ppb	98
26) DI-ISOPROPYL ETHER	3.276	45	522270	29.9237296 ppb	98
27) 2,2-Dichloropropane	3.739	77	168175	27.6103124 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.672	96	152248	27.3300989 ppb	97
29) 2-BUTANONE (MEK)	3.982	43	313824	147.0759450 ppb	95
30) BROMOCHLOROMETHANE	3.787	130	79332	28.6283060 ppb	92
31) TETRAHYDROFURAN	3.915	42	42217	29.9860221 ppb	91
32) CHLOROFORM	3.812	83	244543	27.6154749 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.945	97	204695	26.6152157 ppb	98
35) CARBON TETRACHLORIDE	3.909	117	181356	29.0027009 ppb	97
36) 1,1-Dichloropropene	4.012	75	215954	28.6040688 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 47.D
Acq On : 4 Jun 2015 1:10 am
Operator : 621
Sample : MS 1x WG793150 L766854-09
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 50 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:59 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.055	57	714492	31.5480463	ppb		98
38)	HEPTANE	4.091	43	293592	27.6999575	ppb	#	99
39)	BENZENE	4.152	78	604838	28.7690590	ppb		100
40)	1,2-DICHLOROETHANE	4.262	62	166317	29.1200309	ppb		100
42)	TRICHLOROETHENE	4.475	130	384049	71.6720634	ppb		99
43)	1,2-DICHLOROPROPANE	4.785	62	107840	27.8921496	ppb		99
44)	DIBROMOMETHANE	4.730	93	71014	26.6022022	ppb		97
45)	BROMODICHLOROMETHANE	4.809	83	181082	25.5087103	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.126	63	2174	0.7619588	ppb	#	83
48)	CIS-1,3-DICHLOROPROPENE	5.186	75	224103	26.7525193	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.558	58	284484	160.8961065	ppb		100
51)	TOLUENE	5.339	91	610769	25.3769816	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.588	110	44815	25.4935903	ppb		95
54)	1,1,2-TRICHLOROETHANE	5.697	97	106938	25.3746013	ppb		97
55)	TETRACHLOROETHENE	5.588	164	104513	24.0949476	ppb		99
56)	1,3-Dichloropropane	5.886	76	200017	26.2334765	ppb		100
57)	2-HEXANONE	6.099	58	258880	150.1412827	ppb		100
58)	CHLORODIBROMOMETHANE	5.825	129	113191	25.8671847	ppb		98
59)	1,2-DIBROMOETHANE	6.002	107	102404	25.8973713	ppb		99
60)	CHLOROBENZENE	6.336	112	362475	24.8972247	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.373	133	116146	24.6800998	ppb	#	97
62)	ETHYLBENZENE	6.342	106	211959	24.0555629	ppb		100
63)	M&P-XYLENE	6.434	106	511988	47.2100140	ppb		99
64)	O-XYLENE	6.744	106	244436	24.0730015	ppb		96
65)	STYRENE	6.780	104	361723	23.1206301	ppb		98
66)	Bromoform	6.817	173	67603	25.0654315	ppb		99
67)	Isopropylbenzene	6.963	105	670656	24.3886027	ppb		99
69)	Bromobenzene	7.267	77	289728	25.4047227	ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.316	83	159200	28.1566419	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.431	110	41988	28.2606054	ppb		85
72)	TRANS-1,4-DICHLORO-2-B...	7.450	53	36996	28.2444866	ppb	#	99
73)	n-Propylbenzene	7.267	91	813758	25.2755096	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	645811	25.0668993	ppb		99
75)	2-Chlorotoluene	7.395	126	131670	23.0188940	ppb		97
76)	4-Chlorotoluene	7.523	91	458872	25.4650620	ppb		99
77)	1,3,5-Trimethylbenzene	7.401	105	549084	24.2060640	ppb		98
78)	tert-Butylbenzene	7.650	119	464781	24.6698204	ppb		100
79)	1,2,4-Trimethylbenzene	7.699	105	540597	24.2385013	ppb		99
80)	sec-Butylbenzene	7.784	105	748245	25.0003255	ppb		100
81)	1,3-DICHLOROBENZENE	7.973	146	265997	25.0920327	ppb		99
82)	p-Isopropyltoluene	7.888	119	599704	24.9829504	ppb		99
83)	DICYCLOPENTADIENE	7.888	66	732756	26.3828980	ppb		98
85)	1,4-DICHLOROBENZENE	8.040	146	269168	24.4866885	ppb		99
86)	1,2,3-TRIMETHYLBENZENE	8.046	105	558309	25.3743038	ppb		100
87)	1,2-DICHLOROBENZENE	8.374	146	252648	26.2203524	ppb		98
88)	n-Butylbenzene	8.222	91	581801	27.0602431	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.019	157	25914	27.1735038	ppb		97
90)	1,2,4-Trichlorobenzene	9.573	180	155708	26.9195058	ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.530	225	86008	24.6236299	ppb		99
92)	Naphthalene	9.840	128	417898	26.5926948	ppb		98
93)	1,2,3-Trichlorobenzene	9.999	180	145810	26.1061462	ppb		99
94)	1-Methylnaphthalene	10.723	142	222235	26.3812655	ppb		100
95)	2-Methylnaphthalene	10.850	142	205516	27.7647932	ppb		99
98)	Bromoethane	2.771	108	2460	0.6113789	ppb		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 47.D
Acq On : 4 Jun 2015 1:10 am
Operator : 621
Sample : MS 1x WG793150 L766854-09
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 50 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:59 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

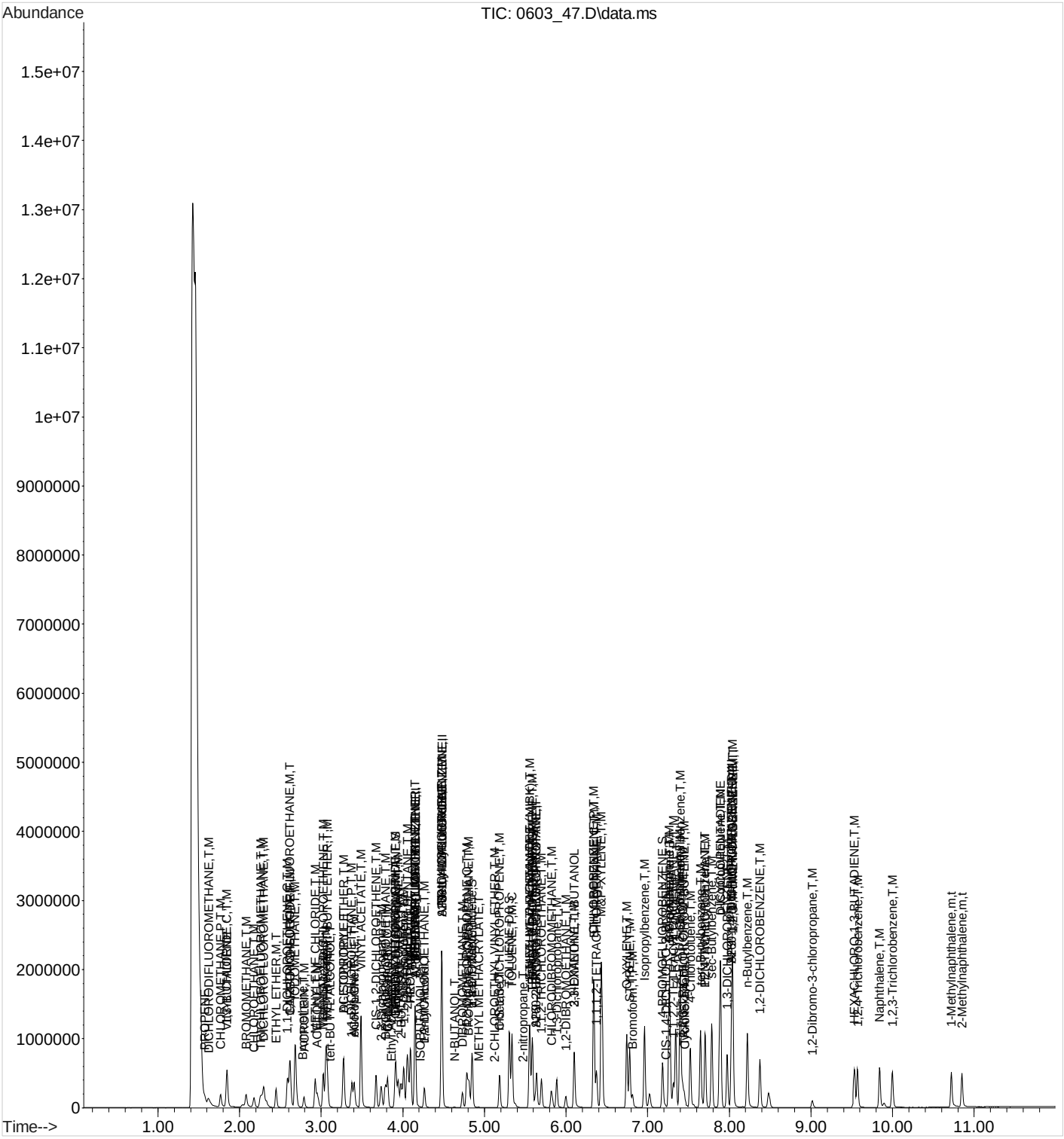
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
100) Methyl Acetate	3.021	43	19584	6.4090645	ppb	#	90
101) ACETONITRILE	3.276	41	81601	197.6257495	ppb	#	38
103) tert-BUTYL ALCOHOL	3.112	59	606	1.1254850	ppb	#	59
104) chloroprene	3.404	53	238422	29.7019953	ppb	#	25
106) PROPIONITRILE	4.091	54	2554	4.7582265	ppb	#	1
107) Ethyl Acetate	3.860	43	1325	0.3708455	ppb	#	67
108) METHACRYLONITRILE	4.152	67	1053	0.6268183	ppb	#	1
109) Cyclohexane	3.812	84	9726	1.1200402	ppb	#	8
111) ISOBUTANOL	4.213	43	1057	4.1391470	ppb	#	69
112) t-Amyl Alcohol	4.262	59	1044	2.5779393	ppb	#	19
113) TERT-AMYL METHYL ETHER	4.152	73	10635	0.7713591	ppb	#	1
115) N-BUTANOL	4.633	56	4423	34.9922264	ppb	#	67
116) Methyl Cyclohexane	4.475	83	13014	0.5984512	ppb	#	48
117) 2-nitropropane	5.472	43	668	0.5303843	ppb	#	1
118) METHYL METHACRYLATE	4.931	41	1674	0.4356803	ppb	#	16
119) 1,4-DIOXANE	4.846	88	3379	85.4716561	ppb	#	33
120) n-octane	5.186	85	2797	0.5005073	ppb	#	31
121) 3,3-DIMETHYL-1-BUTANOL	6.099	57	85841	240.0634916	ppb	#	43
123) ETHYL METHACRYLATE	5.558	69	5216	0.8569361	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.224	53	1921	1.2404759	ppb	#	17
125) Cyclohexanone	7.456	55	1093	6.6700161	ppb	#	24
126) PENTACHLOROETHANE	7.699	117	19064	5.7567813	ppb	#	18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 47.D
Acq On : 4 Jun 2015 1:10 am
Operator : 621
Sample : MS 1x WG793150 L766854-09
Misc : water IS/SURR15C12445/spk15E08399
ALS Vial : 50 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:42:59 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 48.D
Acq On : 4 Jun 2015 1:30 am
Operator : 621
Sample : MSD 1x WG793150 L766854-09
Misc : water IS/SURR15C12445
ALS Vial : 51 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:43:14 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.152	168	266482	40.0000000	ppb	-0.01
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	469757	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	78472	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.028	152	202337	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.152	168	266482	40.0000000	ppb	-0.01
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	469757	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	78472	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.028	152	202337	40.0000000	ppb	#-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	139643	43.0095444	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.52%			
46) a,a,a-Trifluorotoluene	4.846	146	245560	39.1773058	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 97.94%			
50) TOLUENE-D8	5.302	98	586040	41.6034721	ppb	-0.01
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.01%			
68) 4-BROMOFLUOROBENZENE	7.182	95	204585	38.2933039	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.73%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	28211	38.5213997	ppb	99
4) DICHLORODIFLUOROMETHANE	1.622	85	139704	25.9735247	ppb	98
5) CHLOROMETHANE	1.768	50	175288	29.1689427	ppb	100
6) VINYL CHLORIDE	1.841	62	195756	29.3096857	ppb	98
7) 1,3-BUTADIENE	1.847	39	154096	28.7603608	ppb	99
8) BROMOMETHANE	2.084	94	104828	27.9809573	ppb	99
9) CHLOROETHANE	2.175	66	36171	27.7006688	ppb	99
10) TRICHLOROFLUOROMETHANE	2.266	101	199586	29.4096485	ppb	98
11) DICHLOROFLUOROMETHANE	2.297	67	260860	27.6664663	ppb	97
12) ETHYL ETHER	2.449	59	120029	27.7327473	ppb	98
13) ACROLEIN	2.790	56	103307	188.6138167	ppb	100
14) 1,1-DICHLOROETHENE	2.583	61	232617	29.3415868	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.613	101	131052	28.5761264	ppb	97
16) ACETONE	2.954	43	169007	113.3813114	ppb	100
17) IODOMETHANE	2.680	142	947480	135.5891856	ppb	97
18) CARBON DISULFIDE	2.619	76	470981	27.1015600	ppb	98
19) METHYLENE CHLORIDE	2.930	84	141475	27.9822721	ppb	96
20) ACRYLONITRILE	3.404	53	225814	168.8400672	ppb	99
21) n-Hexane	3.057	56	157716	30.6642636	ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.027	96	140614	26.9816858	ppb	95
23) METHYL TERT-BUTYL ETHER	3.076	73	359688	28.5969525	ppb	95
24) 1,1-DICHLOROETHANE	3.374	63	276759	31.2884208	ppb	100
25) VINYL ACETATE	3.489	43	1452587	180.3335021	ppb	99
26) DI-ISOPROPYL ETHER	3.270	45	509744	30.0597092	ppb	100
27) 2,2-Dichloropropane	3.739	77	171219	28.9316932	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.672	96	151689	28.0256508	ppb	96
29) 2-BUTANONE (MEK)	3.976	43	309938	149.5003918	ppb	97
30) BROMOCHLOROMETHANE	3.787	130	78949	29.3228306	ppb	92
31) TETRAHYDROFURAN	3.915	42	41886	30.6205077	ppb	91
32) CHLOROFORM	3.812	83	245639	28.5500328	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.946	97	211017	28.2391884	ppb	99
35) CARBON TETRACHLORIDE	3.909	117	175127	28.8251539	ppb	98
36) 1,1-Dichloropropene	4.006	75	222563	30.3411152	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 48.D
Acq On : 4 Jun 2015 1:30 am
Operator : 621
Sample : MSD 1x WG793150 L766854-09
Misc : water IS/SURR15C12445
ALS Vial : 51 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:43:14 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.055	57	682410	31.0121941	ppb		99
38)	HEPTANE	4.092	43	295791	28.7231358	ppb	#	99
39)	BENZENE	4.152	78	608974	29.8124282	ppb		99
40)	1,2-DICHLOROETHANE	4.262	62	165254	29.7796219	ppb		99
42)	TRICHLOROETHENE	4.475	130	411726	79.8030203	ppb		99
43)	1,2-DICHLOROPROPANE	4.785	62	106014	28.4782366	ppb		99
44)	DIBROMOMETHANE	4.730	93	70048	27.2531759	ppb		97
45)	BROMODICHLOROMETHANE	4.809	83	179327	26.2365465	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.187	63	1229	0.4473749	ppb	#	50
48)	CIS-1,3-DICHLOROPROPENE	5.187	75	220948	27.3939625	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.558	58	277691	163.1162617	ppb		99
51)	TOLUENE	5.339	91	621276	26.8099079	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.588	110	44825	26.4835174	ppb		96
54)	1,1,2-TRICHLOROETHANE	5.698	97	105909	25.7164891	ppb		98
55)	TETRACHLOROETHENE	5.588	164	104848	24.7358855	ppb		98
56)	1,3-Dichloropropane	5.886	76	195065	26.1806202	ppb		98
57)	2-HEXANONE	6.099	58	251623	149.3356850	ppb		100
58)	CHLORODIBROMOMETHANE	5.825	129	108813	25.4465959	ppb		98
59)	1,2-DIBROMOETHANE	5.996	107	100708	26.0623981	ppb		100
60)	CHLOROBENZENE	6.336	112	363820	25.5723765	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.373	133	115798	25.1799784	ppb	#	97
62)	ETHYLBENZENE	6.336	106	211786	24.5964568	ppb		99
63)	M&P-XYLENE	6.434	106	511029	48.2204805	ppb		98
64)	O-XYLENE	6.744	106	243670	24.5571961	ppb		97
65)	STYRENE	6.780	104	357049	23.3540929	ppb		97
66)	Bromoform	6.817	173	64449	24.4532755	ppb		99
67)	Isopropylbenzene	6.963	105	671899	25.0036113	ppb		99
69)	Bromobenzene	7.267	77	282774	25.3731920	ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.310	83	154642	27.9883239	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.431	110	41389	28.5070873	ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.450	53	35527	27.7555023	ppb	#	100
73)	n-Propylbenzene	7.267	91	823397	26.1713165	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	652421	25.9140176	ppb		99
75)	2-Chlorotoluene	7.395	126	129371	23.1444142	ppb		96
76)	4-Chlorotoluene	7.523	91	457173	25.9624332	ppb		99
77)	1,3,5-Trimethylbenzene	7.401	105	553393	24.9649494	ppb		98
78)	tert-Butylbenzene	7.650	119	466054	25.3142755	ppb		100
79)	1,2,4-Trimethylbenzene	7.699	105	537559	24.6643634	ppb		98
80)	sec-Butylbenzene	7.784	105	760679	26.0084762	ppb		100
81)	1,3-DICHLOROBENZENE	7.973	146	263340	25.4207042	ppb		99
82)	p-Isopropyltoluene	7.888	119	602542	25.6865481	ppb		99
83)	DICYCLOPENTADIENE	7.888	66	733245	27.0161753	ppb		97
85)	1,4-DICHLOROBENZENE	8.040	146	268337	25.3105047	ppb		96
86)	1,2,3-TRIMETHYLBENZENE	8.046	105	550900	25.9600721	ppb		99
87)	1,2-DICHLOROBENZENE	8.374	146	246650	26.5410070	ppb		99
88)	n-Butylbenzene	8.222	91	583804	28.1538579	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.019	157	25527	27.7539359	ppb		97
90)	1,2,4-Trichlorobenzene	9.567	180	151258	27.1136588	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.530	225	86272	25.6092411	ppb		99
92)	Naphthalene	9.841	128	415358	27.4049020	ppb		100
93)	1,2,3-Trichlorobenzene	9.999	180	142520	26.4572613	ppb		100
94)	1-Methylnaphthalene	10.723	142	211025	25.9735129	ppb		98
95)	2-Methylnaphthalene	10.850	142	196464	27.5198082	ppb		99
98)	Bromoethane	2.771	108	2521	0.6448522	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 48.D
Acq On : 4 Jun 2015 1:30 am
Operator : 621
Sample : MSD 1x WG793150 L766854-09
Misc : water IS/SURR15C12445
ALS Vial : 51 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:43:14 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

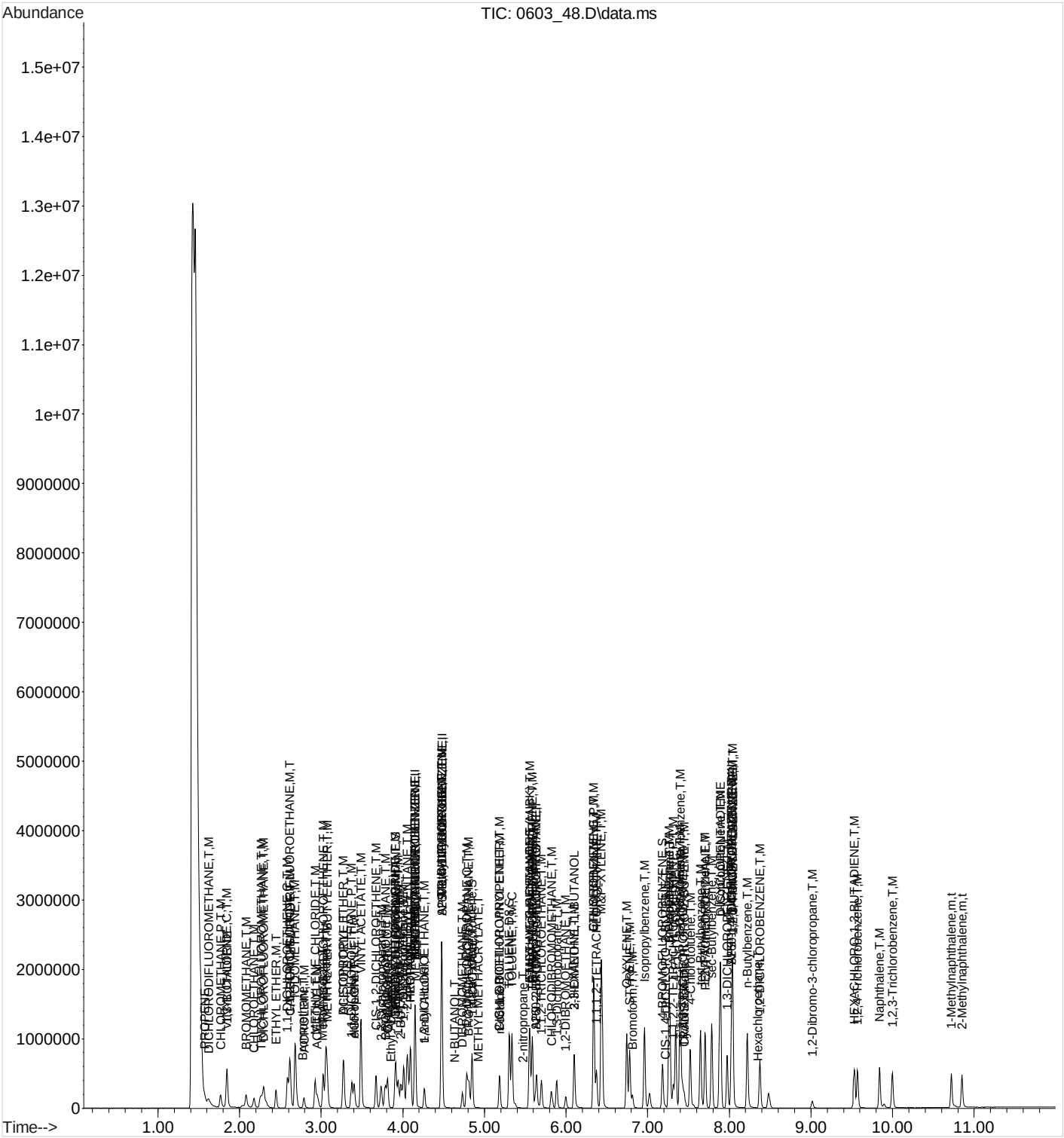
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Methyl Acetate	3.015	43	17881	6.0227808	ppb #	86
101) ACETONITRILE	3.276	41	80189	199.8825391	ppb #	36
104) chloroprene	3.404	53	225814	28.9535735	ppb #	25
106) PROPIONITRILE	4.092	54	3023	5.7966139	ppb #	1
107) Ethyl Acetate	3.854	43	1141	0.3286811	ppb #	67
108) METHACRYLONITRILE	4.158	67	818	0.5011626	ppb #	1
109) Cyclohexane	3.812	84	9691	1.1486295	ppb #	4
112) t-Amyl Alcohol	4.262	59	925	2.3508555	ppb #	19
113) TERT-AMYL METHYL ETHER	4.152	73	10208	0.7620295	ppb #	1
115) N-BUTANOL	4.633	56	2707	22.2428615	ppb #	83
116) Methyl Cyclohexane	4.475	83	13650	0.7089000	ppb #	47
117) 2-nitropropane	5.473	43	1052	0.8675165	ppb #	67
118) METHYL METHACRYLATE	4.925	41	2017	0.5452129	ppb #	16
119) 1,4-DIOXANE	4.852	88	3153	82.8334336	ppb #	26
120) n-octane	5.193	85	2796	0.5196403	ppb #	43
121) 3,3-DIMETHYL-1-BUTANOL	6.099	57	83872	243.5243685	ppb #	44
123) ETHYL METHACRYLATE	5.558	69	5177	0.8703635	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.218	53	1853	1.2244697	ppb #	15
125) Cyclohexanone	7.450	55	1064	6.6444646	ppb #	24
126) PENTACHLOROETHANE	7.705	117	19019	5.8771262	ppb #	13
127) Hexachloroethane	8.350	117	1342	0.3336670	ppb #	60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 48.D
Acq On : 4 Jun 2015 1:30 am
Operator : 621
Sample : MSD 1x WG793150 L766854-09
Misc : water IS/SURR15C12445
ALS Vial : 51 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Jun 04 10:43:14 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 63.D
Acq On : 4 Jun 2015 6:58 am
Operator : 621
Sample : L767115-01 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 66 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:46:31 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

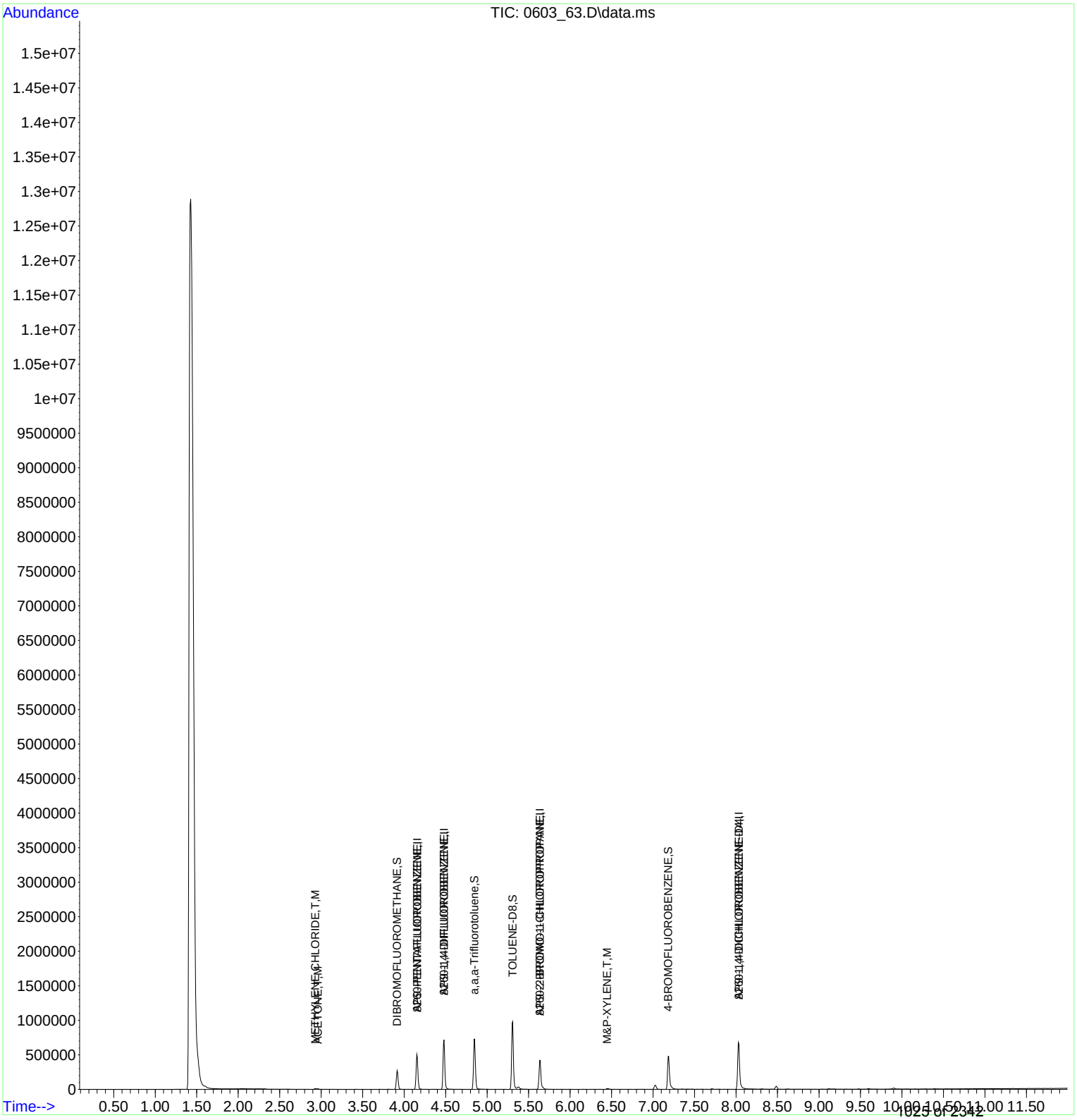
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.158	168	244883	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	443135	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	71795	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	178273	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	244883	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	443135	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	71795	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	178273	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	132851	44.5266213	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 111.32%			
46) a,a,a-Trifluorotoluene	4.846	146	233108	39.4249660	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 98.56%			
50) TOLUENE-D8	5.308	98	559345	42.0939117	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.23%			
68) 4-BROMOFLUOROBENZENE	7.182	95	180287	36.8836577	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 92.21%			
Target Compounds						Qvalue
16) ACETONE	2.960	43	10621	7.7537436	ppb	92
19) METHYLENE CHLORIDE	2.929	84	4085	0.8792342	ppb	95
63) M&P-XYLENE	6.446	106	5016	0.5173257	ppb	99

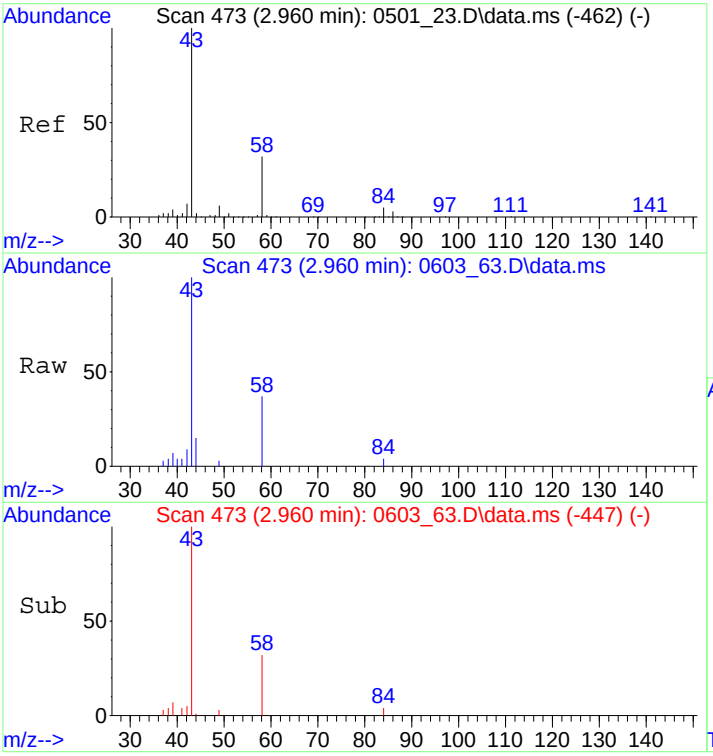
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 63.D
Acq On : 4 Jun 2015 6:58 am
Operator : 621
Sample : L767115-01 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 66 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:46:31 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

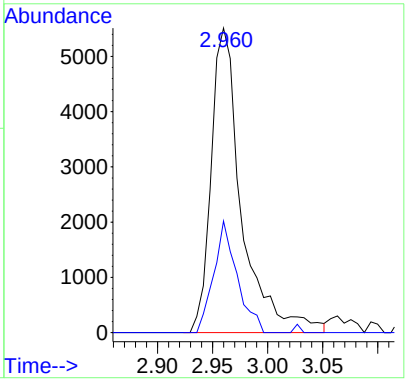


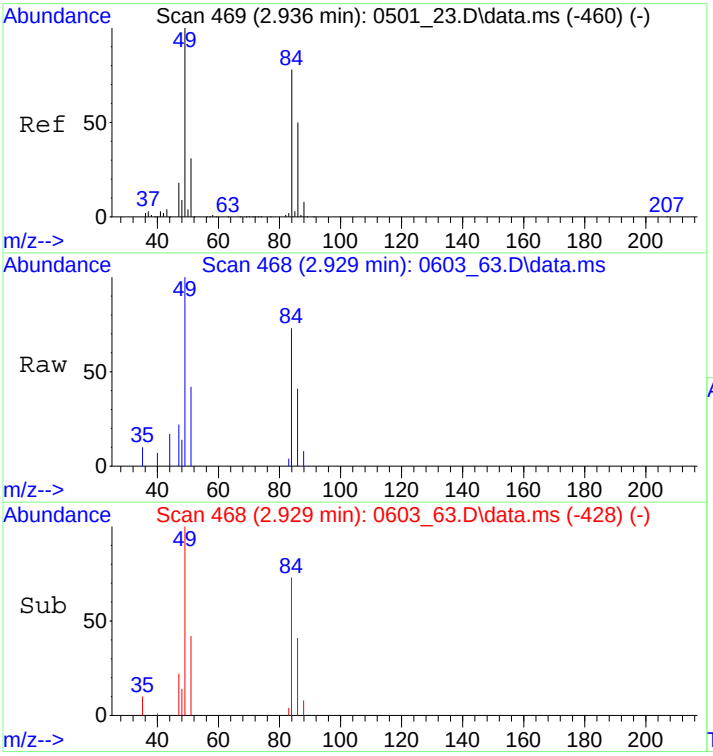


#16
ACETONE
Concen: 7.7537436 ppb
RT: 2.960 min Scan# 473
Delta R.T. 0.001 min
Lab File: 0603 63.D
Acq: 4 Jun 2015 6:58 am

Tgt Ion: 43 Resp: 10621

Ion	Ratio	Lower	Upper
43	100		
58	28.1	26.1	39.1

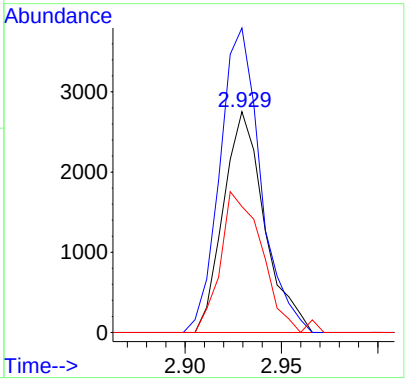


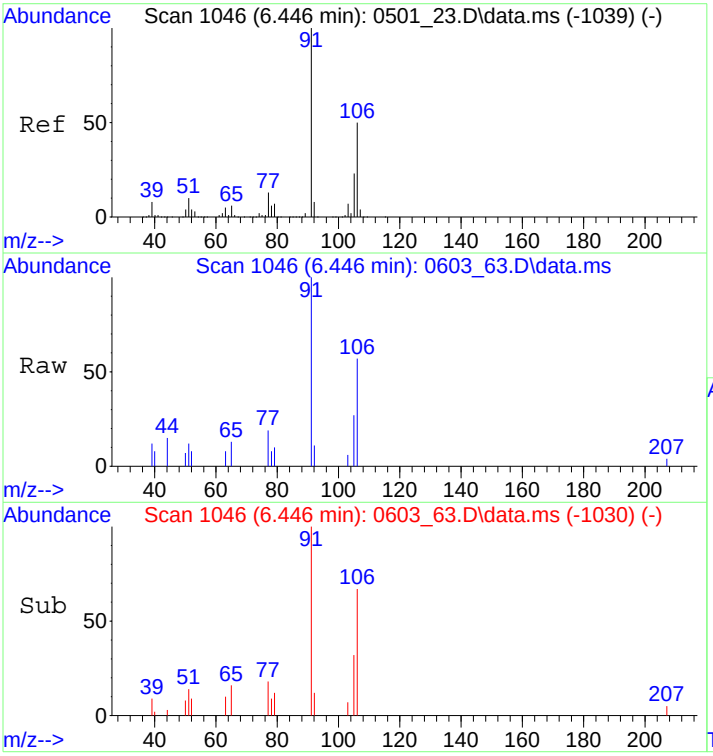


#19
METHYLENE CHLORIDE
Concen: 0.8792342 ppb
RT: 2.929 min Scan# 468
Delta R.T. -0.006 min
Lab File: 0603_63.D
Acq: 4 Jun 2015 6:58 am

Tgt Ion: 84 Resp: 4085

Ion	Ratio	Lower	Upper
84	100		
49	136.9	103.3	154.9
86	64.9	50.8	76.2

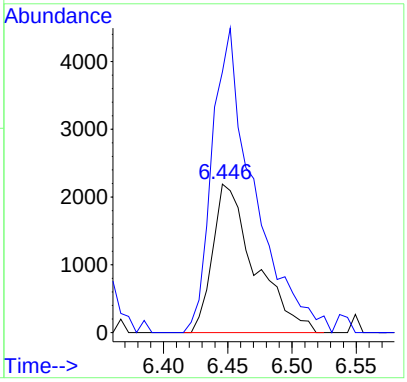




#63
M&P-XYLENE
Concen: 0.5173257 ppb
RT: 6.446 min Scan# 1046
Delta R.T. -0.000 min
Lab File: 0603 63.D
Acq: 4 Jun 2015 6:58 am

Tgt Ion:106 Resp: 5016

Ion	Ratio	Lower	Upper
106	100		
91	202.7	163.3	244.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 64.D
Acq On : 4 Jun 2015 7:18 am
Operator : 621
Sample : L767115-02 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 67 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:49:36 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

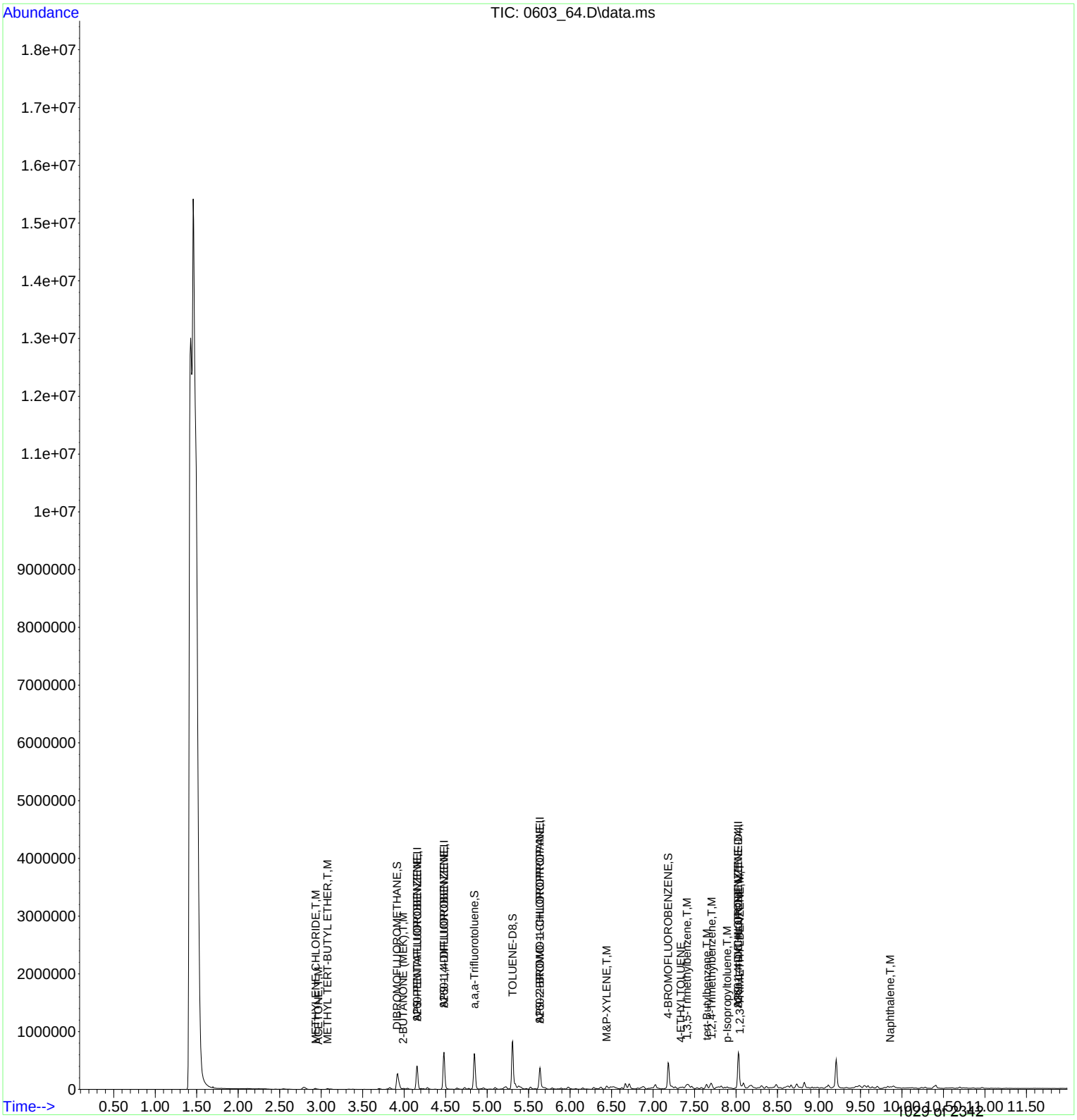
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.158	168	203110	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	366766	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	62759	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.027	152	157508	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	203110	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	366766	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	62759	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.027	152	157508	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.915	111	110623	44.7020743 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 111.76%		
46) a,a,a-Trifluorotoluene	4.846	146	192985	39.4352581 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 98.59%		
50) TOLUENE-D8	5.308	98	469005	42.6445938 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.61%		
68) 4-BROMOFLUOROBENZENE	7.182	95	159246	37.2697336 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.17%		
Target Compounds					Qvalue
16) ACETONE	2.966	43	4142	3.6457212 ppb	91
19) METHYLENE CHLORIDE	2.935	84	3682	0.9554845 ppb	93
23) METHYL TERT-BUTYL ETHER	3.075	73	11001	1.1475260 ppb #	28
29) 2-BUTANONE (MEK)	3.988	43	7804	4.9387988 ppb #	49
63) M&P-XYLENE	6.440	106	13073	1.5424104 ppb	95
74) 4-ETHYLTOLUENE	7.334	105	14473	0.7187934 ppb	100
77) 1,3,5-Trimethylbenzene	7.407	105	22828	1.2876671 ppb	96
78) tert-Butylbenzene	7.650	119	8700	0.5908636 ppb	96
79) 1,2,4-Trimethylbenzene	7.705	105	23228	1.3325831 ppb	98
82) p-Isopropyltoluene	7.894	119	6882	0.3668359 ppb	94
86) 1,2,3-TRIMETHYLBENZENE	8.046	105	5560	0.3365740 ppb	99
92) Naphthalene	9.859	128	4262	0.3612367 ppb #	84

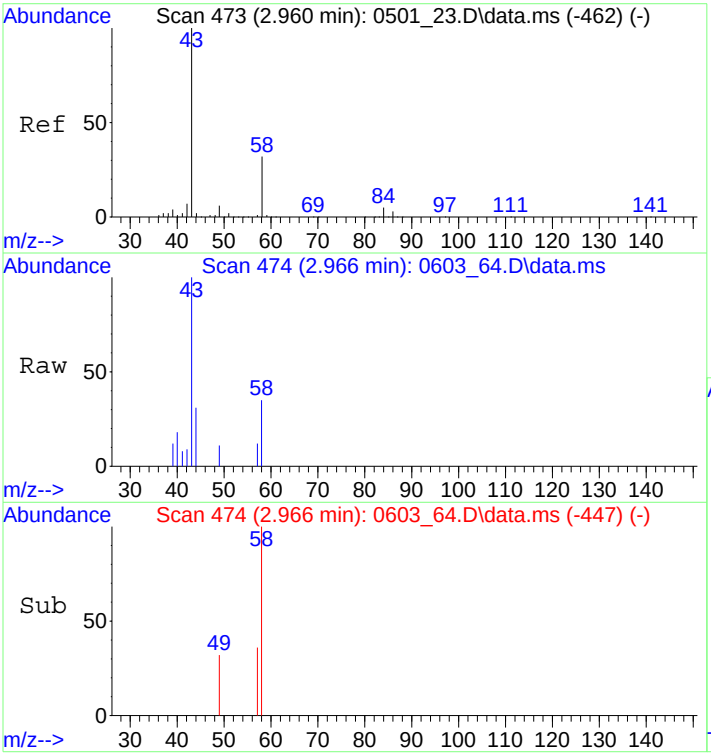
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 64.D
Acq On : 4 Jun 2015 7:18 am
Operator : 621
Sample : L767115-02 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 67 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:49:36 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

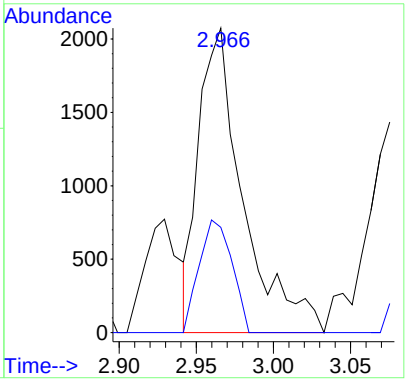


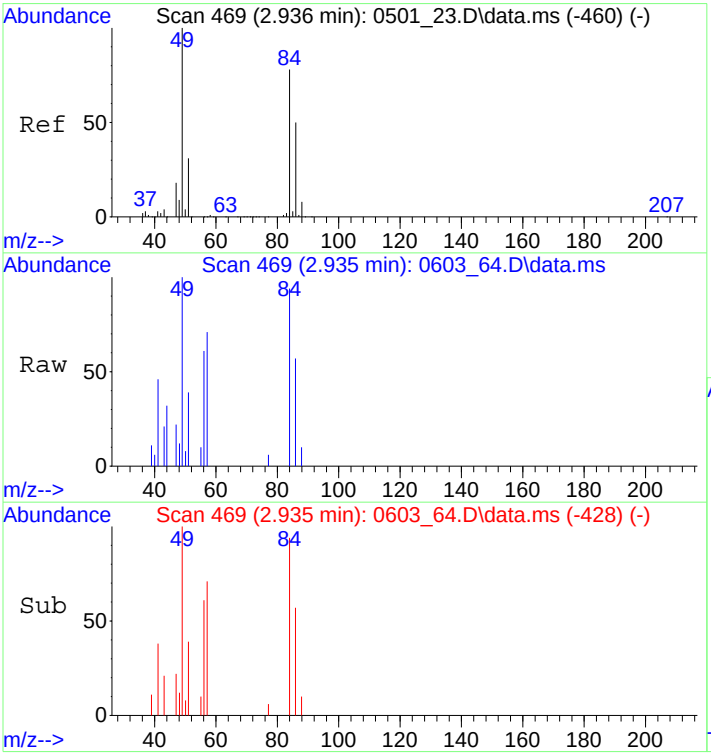


#16
ACETONE
Concen: 3.6457212 ppb
RT: 2.966 min Scan# 474
Delta R.T. 0.007 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion: 43 Resp: 4142

Ion	Ratio	Lower	Upper
43	100		
58	27.4	26.1	39.1

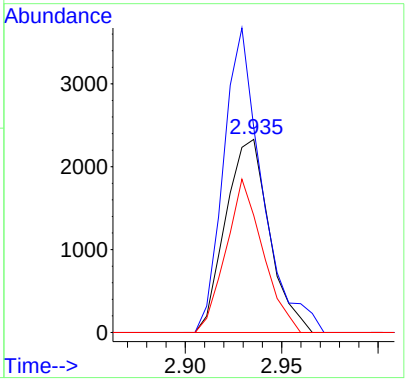


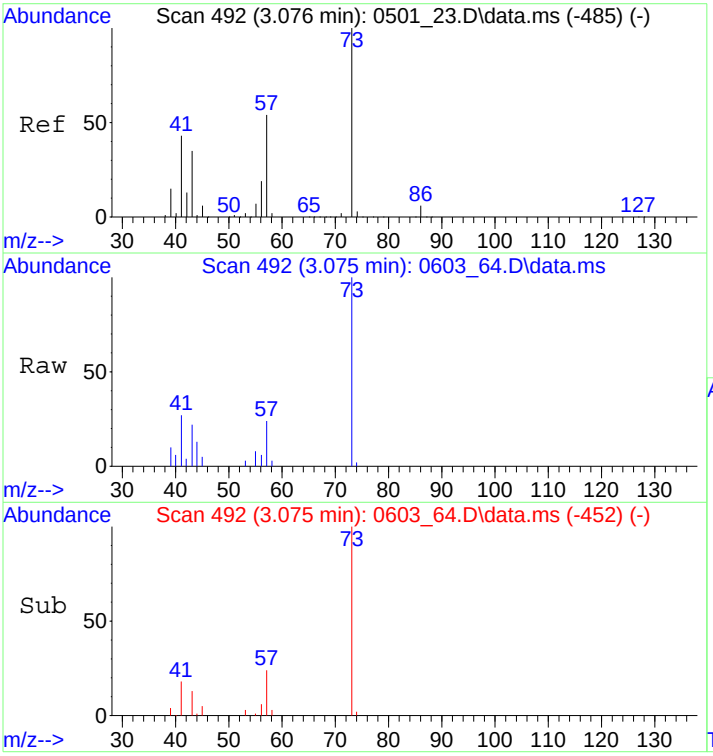


#19
METHYLENE CHLORIDE
Concen: 0.9554845 ppb
RT: 2.935 min Scan# 469
Delta R.T. 0.000 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion: 84 Resp: 3682

Ion	Ratio	Lower	Upper
84	100		
49	138.5	103.3	154.9
86	67.1	50.8	76.2

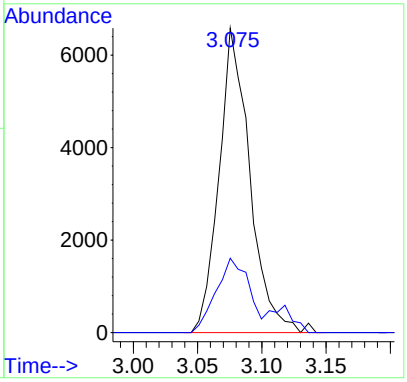


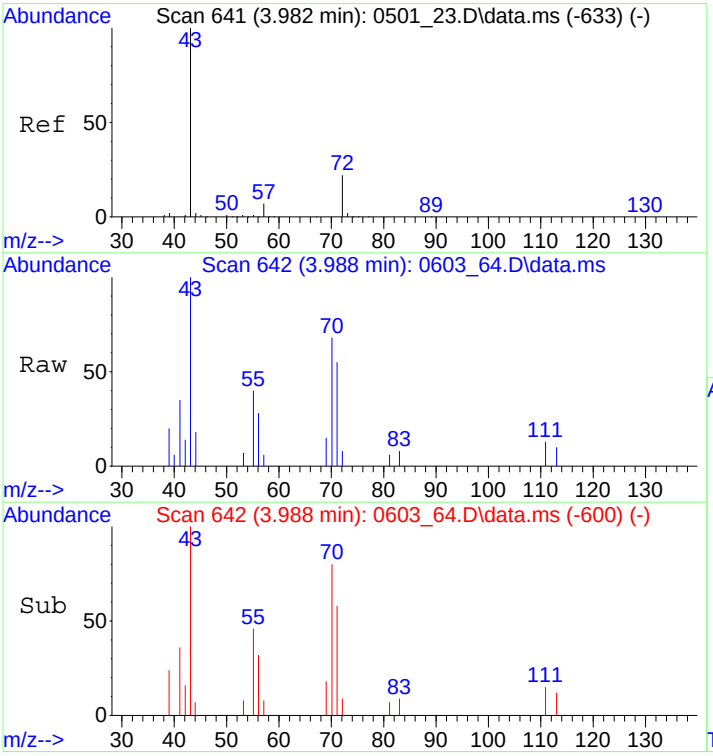


#23
METHYL TERT-BUTYL ETHER
Concen: 1.1475260 ppb
RT: 3.075 min Scan# 492
Delta R.T. -0.006 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion: 73 Resp: 11001

Ion	Ratio	Lower	Upper
73	100		
57	26.0	77.0	115.6#

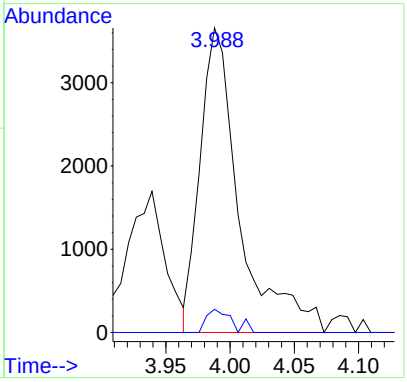


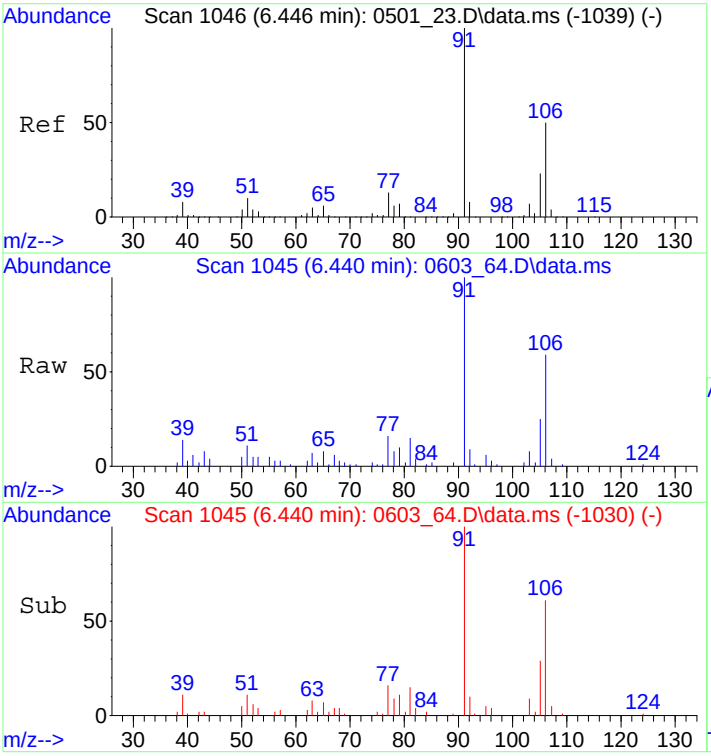


#29
2-BUTANONE (MEK)
Concen: 4.9387988 ppb
RT: 3.988 min Scan# 642
Delta R.T. 0.006 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion: 43 Resp: 7804

Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#

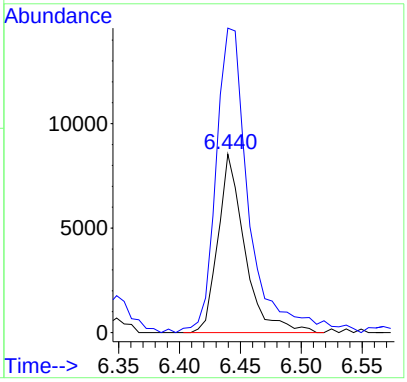


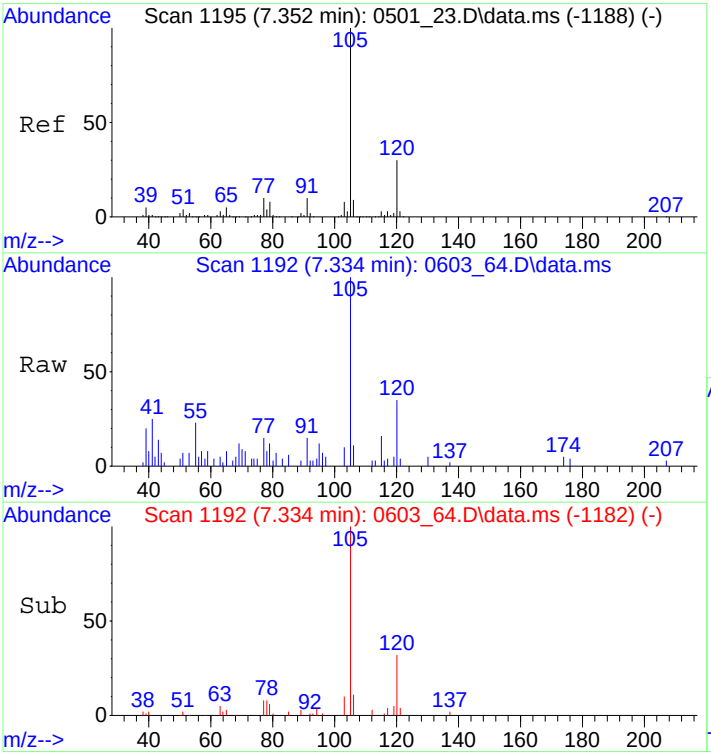


#63
M&P-XYLENE
Concen: 1.5424104 ppb
RT: 6.440 min Scan# 1045
Delta R.T. -0.006 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:106 Resp: 13073

Ion	Ratio	Lower	Upper
106	100		
91	211.2	163.3	244.9

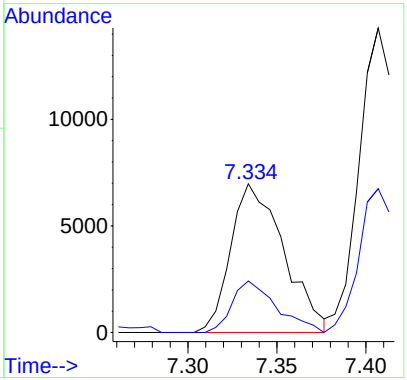


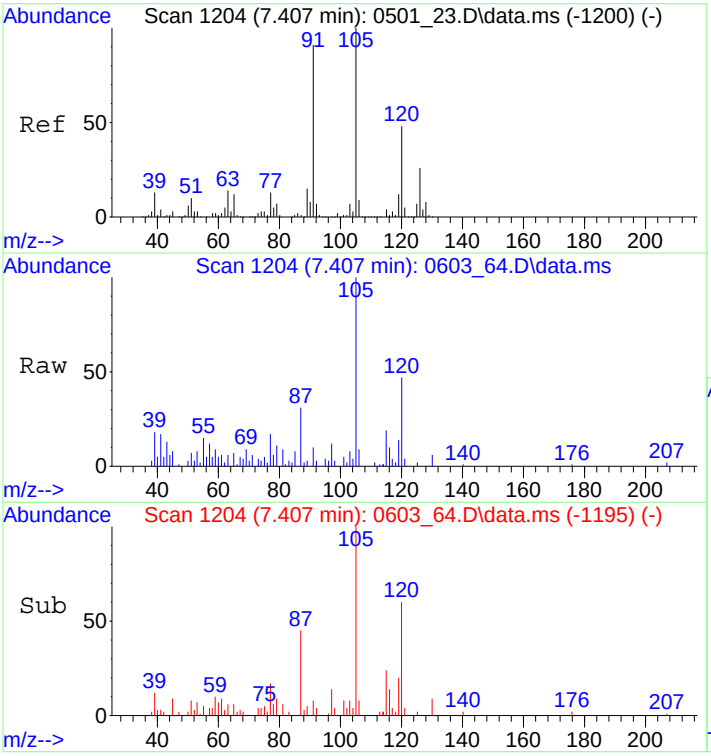


#74
4-ETHYLTOLUENE
Concen: 0.7187934 ppb
RT: 7.334 min Scan# 1192
Delta R.T. -0.018 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:105 Resp: 14473

Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.2	34.8

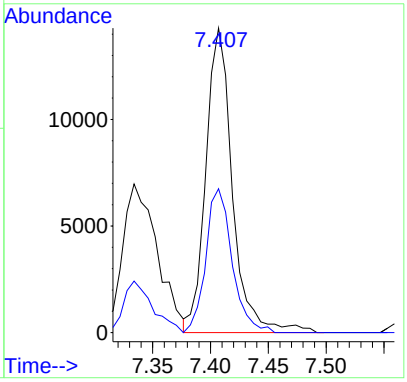


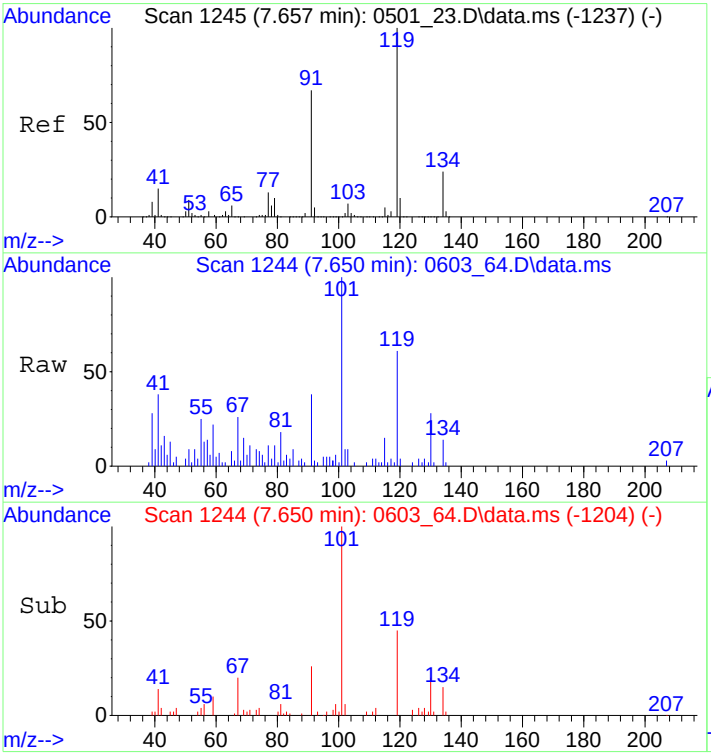


#77
1,3,5-Trimethylbenzene
Concen: 1.2876671 ppb
RT: 7.407 min Scan# 1204
Delta R.T. -0.006 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:105 Resp: 22828

Ion	Ratio	Lower	Upper
105	100		
120	46.8	39.8	59.6

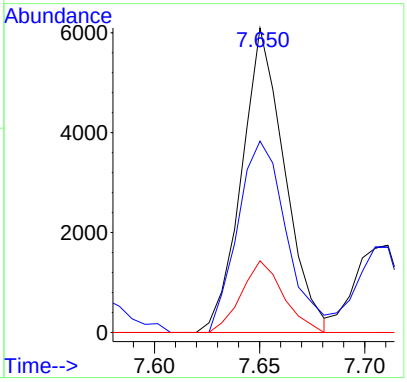


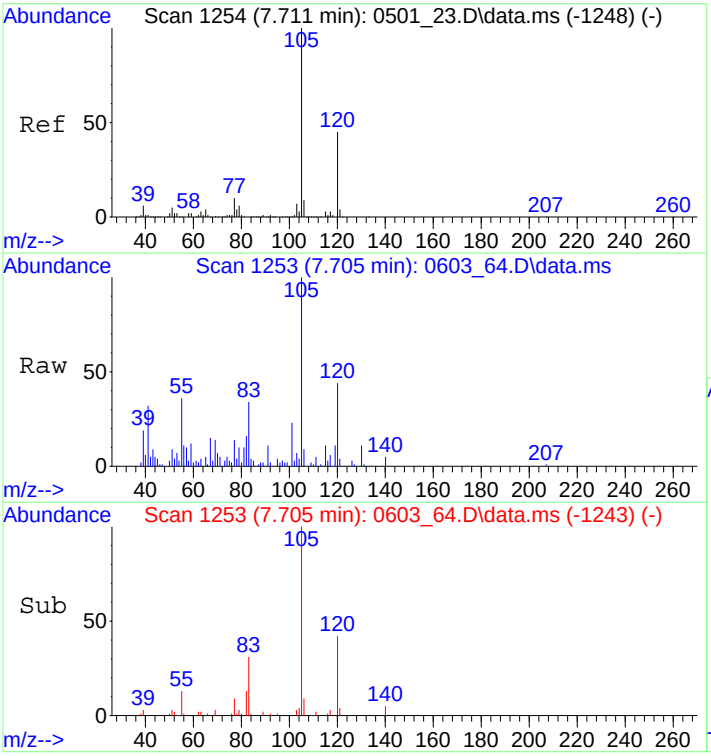


#78
tert-Butylbenzene
Concen: 0.5908636 ppb
RT: 7.650 min Scan# 1244
Delta R.T. -0.006 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:119 Resp: 8700

Ion	Ratio	Lower	Upper
119	100		
91	71.2	54.5	81.7
134	22.9	19.8	29.6

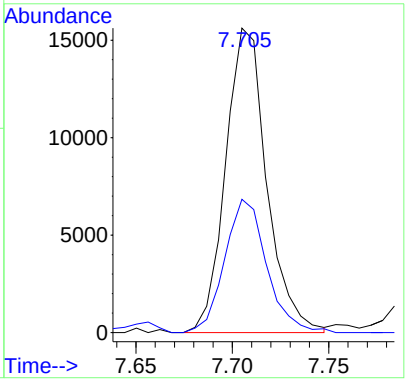


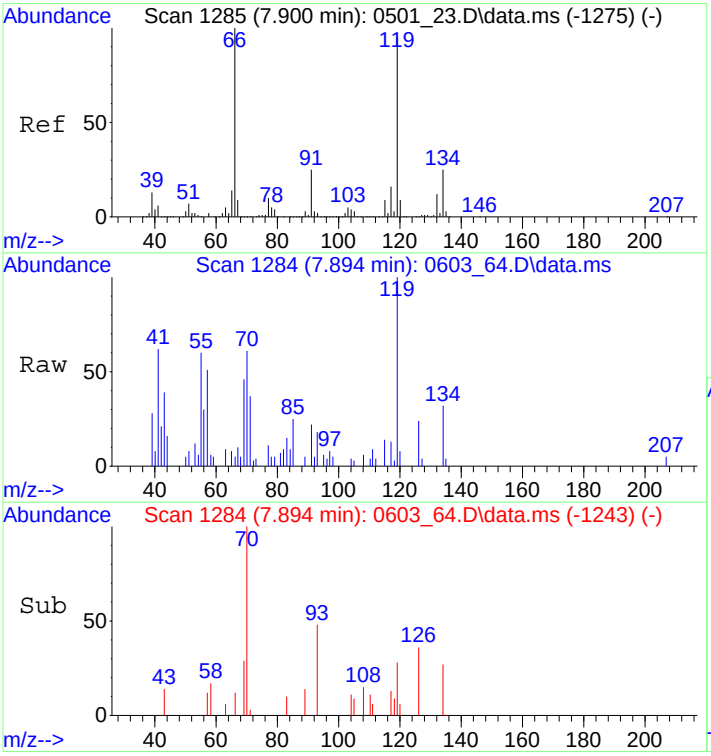


#79
1,2,4-Trimethylbenzene
Concen: 1.3325831 ppb
RT: 7.705 min Scan# 1253
Delta R.T. -0.006 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:105 Resp: 23228

Ion	Ratio	Lower	Upper
105	100		
120	44.6	36.8	55.2

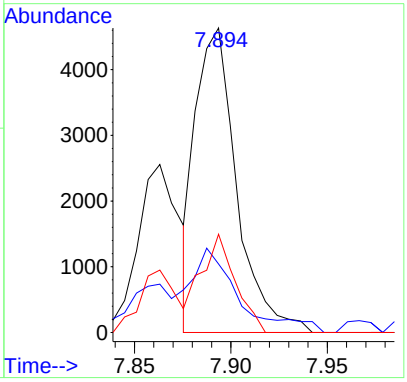


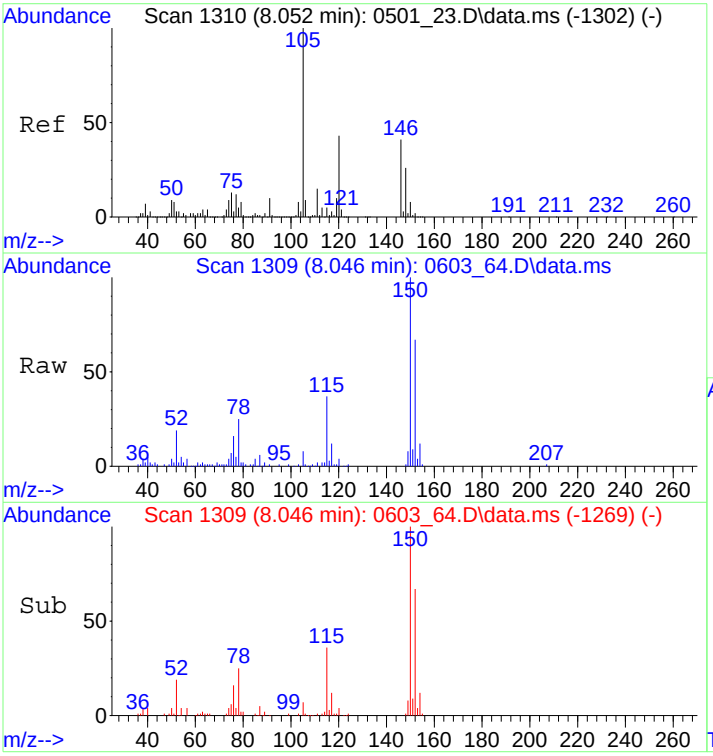


#82
p-Isopropyltoluene
Concen: 0.3668359 ppb
RT: 7.894 min Scan# 1284
Delta R.T. -0.000 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:119 Resp: 6882

Ion	Ratio	Lower	Upper
119	100		
91	32.8	21.9	32.9
134	27.0	20.6	31.0

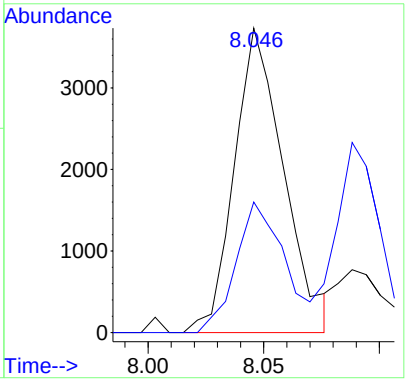


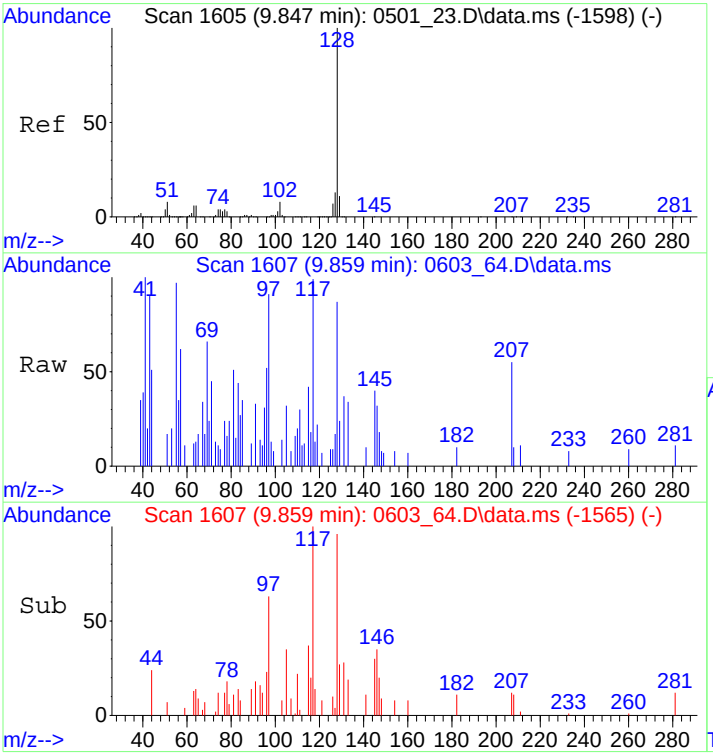


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.3365740 ppb
RT: 8.046 min Scan# 1309
Delta R.T. -0.006 min
Lab File: 0603 64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:105 Resp: 5560

Ion	Ratio	Lower	Upper
105	100		
120	42.4	34.2	51.2

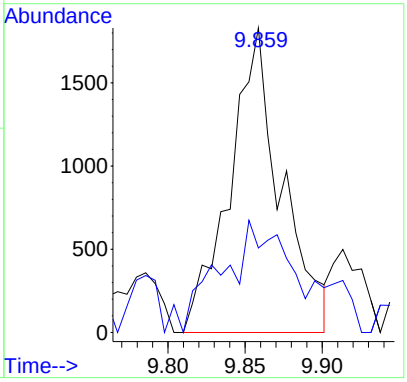




#92
Naphthalene
Concen: 0.3612367 ppb
RT: 9.859 min Scan# 1607
Delta R.T. 0.006 min
Lab File: 0603_64.D
Acq: 4 Jun 2015 7:18 am

Tgt Ion:128 Resp: 4262

Ion	Ratio	Lower	Upper
128	100		
129	16.5	8.5	12.7#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 65.D
Acq On : 4 Jun 2015 7:38 am
Operator : 621
Sample : L767115-05 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 68 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:52:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

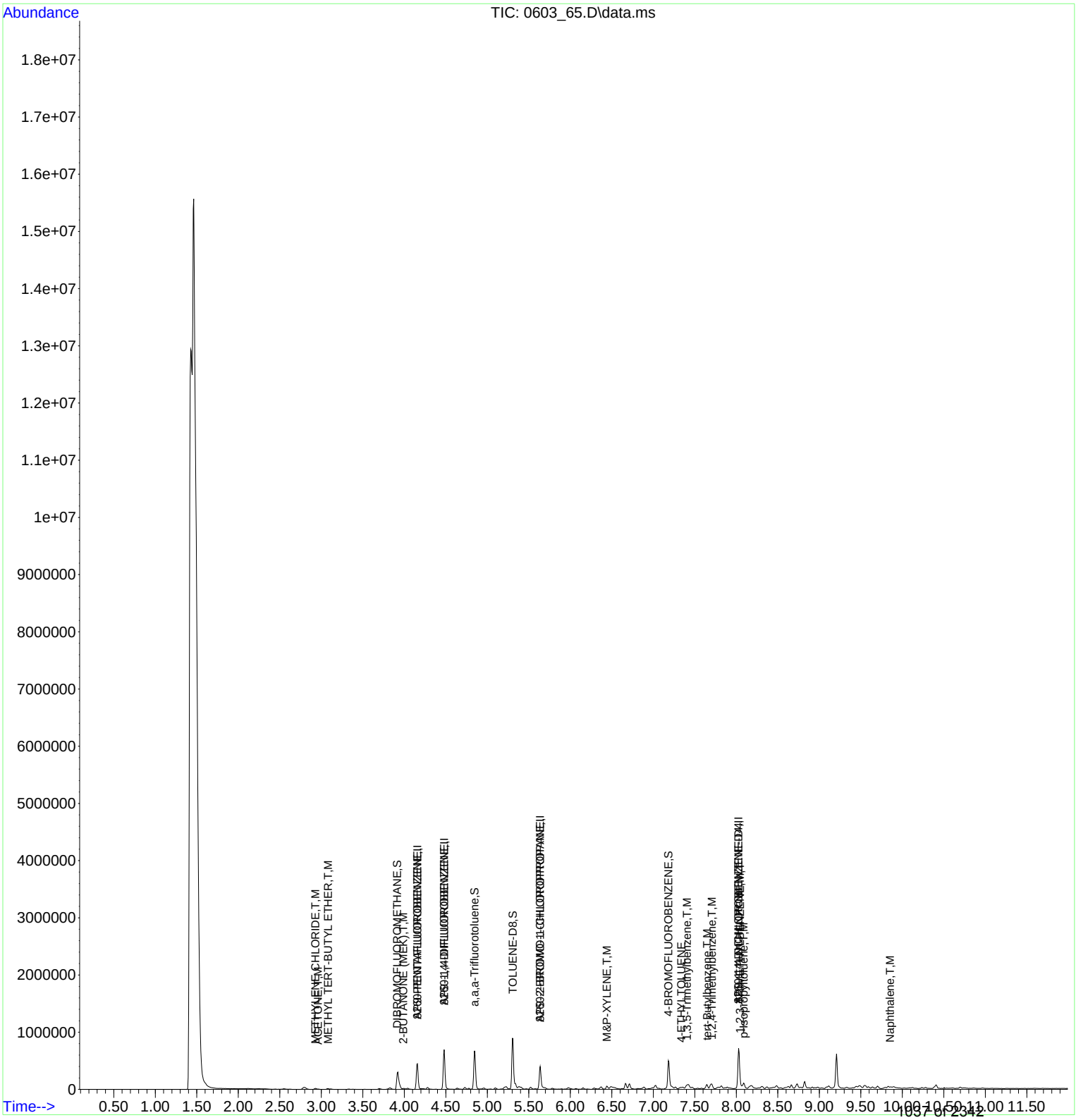
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.158	168	225544	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.481	114	400947	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.637	79	68858	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.028	152	170958	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	225544	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.481	114	400947	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.637	79	68858	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.028	152	170958	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.915	111	123653	44.9973492	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.49%			
46) a,a,a-Trifluorotoluene	4.846	146	214516	40.0980196	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.25%			
50) TOLUENE-D8	5.308	98	506567	42.1333028	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.33%			
68) 4-BROMOFLUOROBENZENE	7.182	95	175487	37.4329726	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.58%			
Target Compounds						Qvalue
16) ACETONE	2.960	43	5912	4.6860596	ppb #	81
19) METHYLENE CHLORIDE	2.929	84	3964	0.9263466	ppb	94
23) METHYL TERT-BUTYL ETHER	3.082	73	11240	1.0558366	ppb #	37
29) 2-BUTANONE (MEK)	3.988	43	6671	3.8018506	ppb #	49
63) M&P-XYLENE	6.440	106	12868	1.3837491	ppb	94
74) 4-ETHYLTOLUENE	7.340	105	14545	0.6583864	ppb	99
77) 1,3,5-Trimethylbenzene	7.407	105	21509	1.1058025	ppb	99
78) tert-Butylbenzene	7.650	119	8294	0.5133973	ppb	94
79) 1,2,4-Trimethylbenzene	7.705	105	24992	1.3067879	ppb	98
82) p-Isopropyltoluene	8.088	119	37436	1.8187298	ppb	95
86) 1,2,3-TRIMETHYLBENZENE	8.046	105	6214	0.3465694	ppb	93
92) Naphthalene	9.853	128	5026	0.3924768	ppb #	78

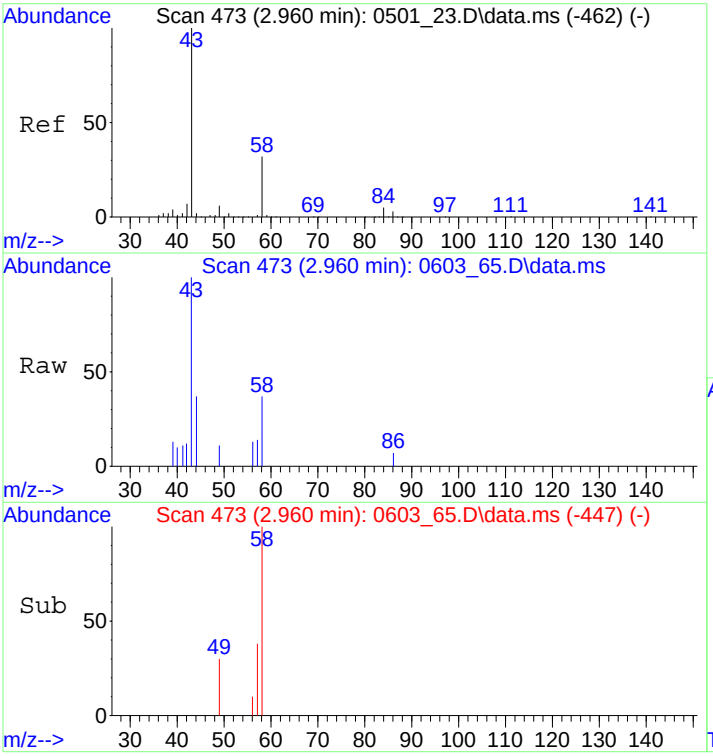
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060315\
Data File : 0603 65.D
Acq On : 4 Jun 2015 7:38 am
Operator : 621
Sample : L767115-05 1x WG793150 V8260
Misc : water IS/SURR15C12445
ALS Vial : 68 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: Nov 20 10:52:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

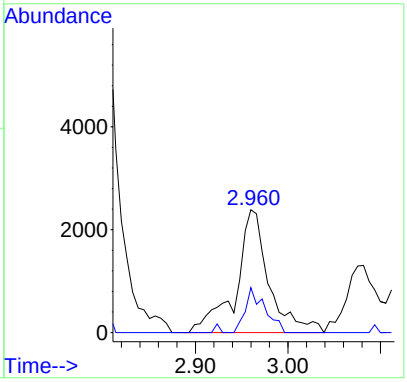


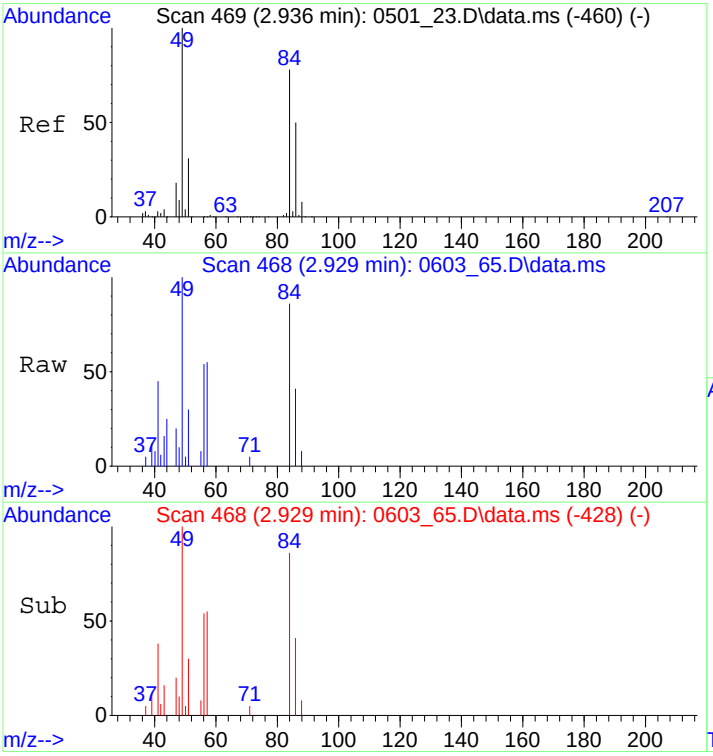


#16
ACETONE
Concen: 4.6860596 ppb
RT: 2.960 min Scan# 473
Delta R.T. 0.001 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion: 43 Resp: 5912

Ion	Ratio	Lower	Upper
43	100		
58	21.7	26.1	39.1#

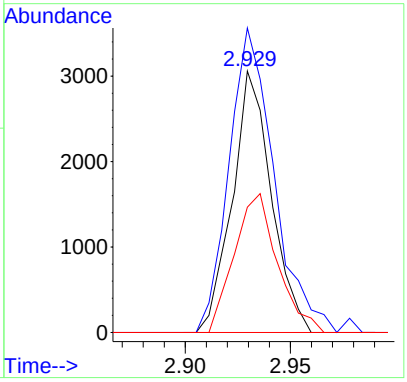


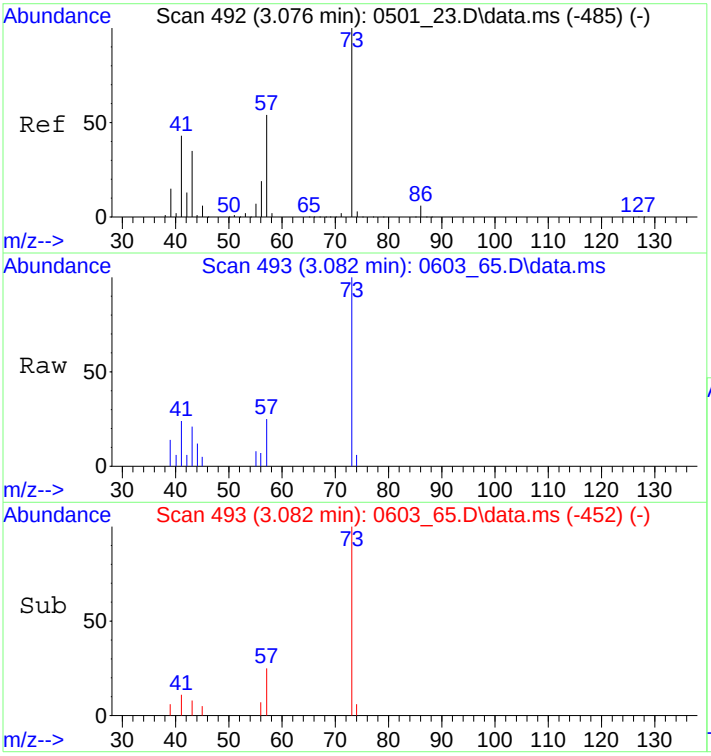


#19
METHYLENE CHLORIDE
Concen: 0.9263466 ppb
RT: 2.929 min Scan# 468
Delta R.T. -0.006 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion: 84 Resp: 3964

Ion	Ratio	Lower	Upper
84	100		
49	135.2	103.3	154.9
86	58.8	50.8	76.2

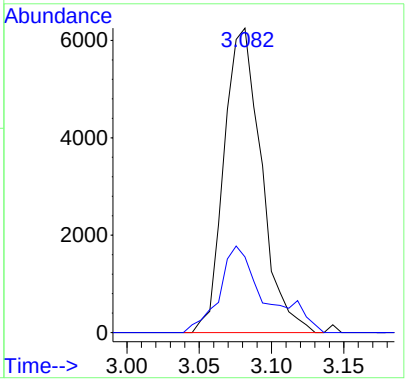


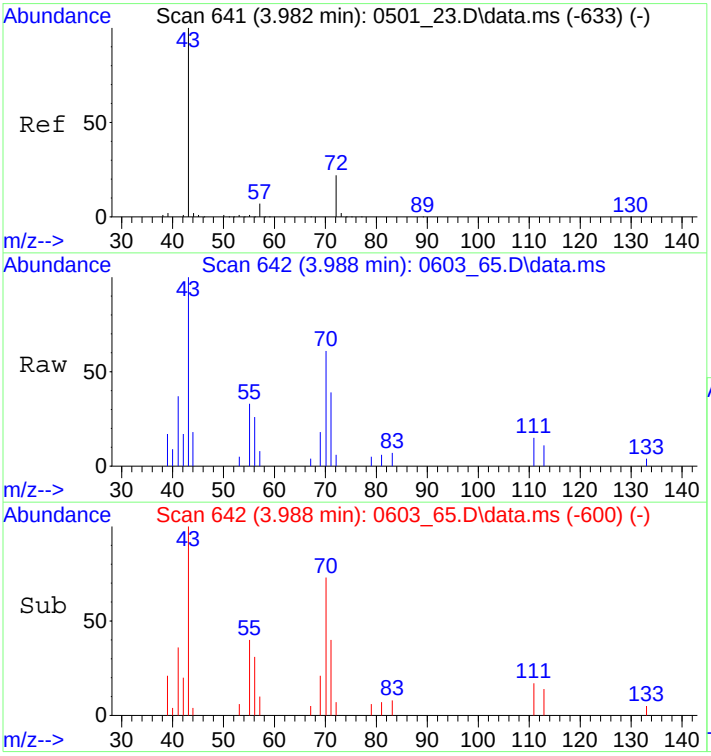


#23
METHYL TERT-BUTYL ETHER
Concen: 1.0558366 ppb
RT: 3.082 min Scan# 493
Delta R.T. -0.000 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion: 73 Resp: 11240

Ion	Ratio	Lower	Upper
73	100		
57	35.1	77.0	115.6#

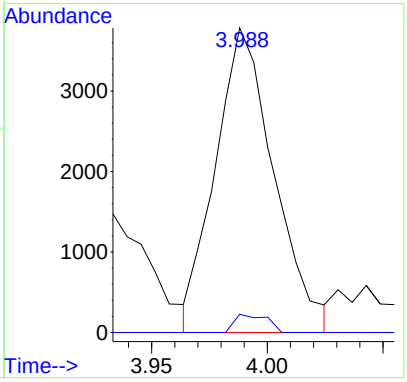


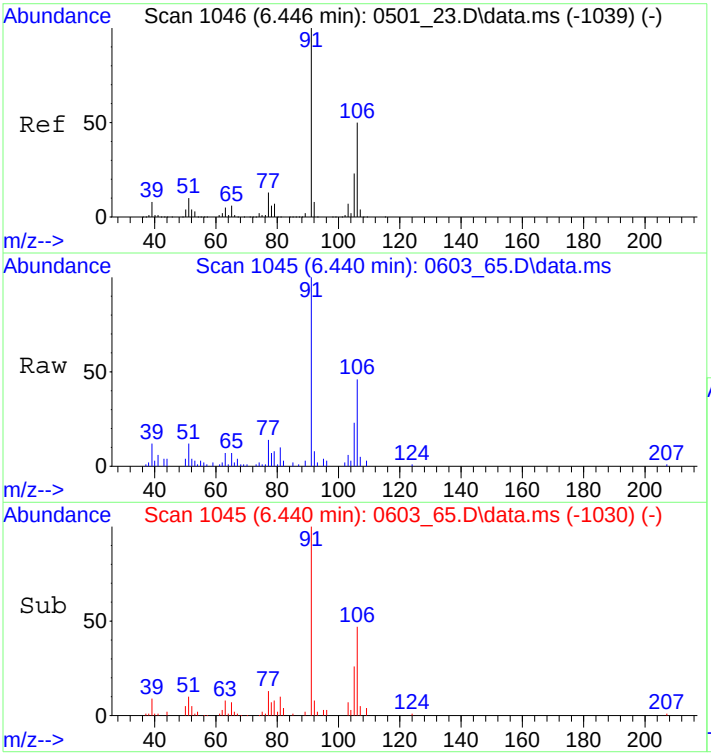


#29
2-BUTANONE (MEK)
Concen: 3.8018506 ppb
RT: 3.988 min Scan# 642
Delta R.T. 0.006 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion: 43 Resp: 6671

Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#

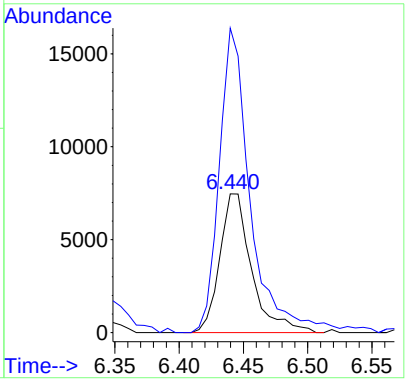


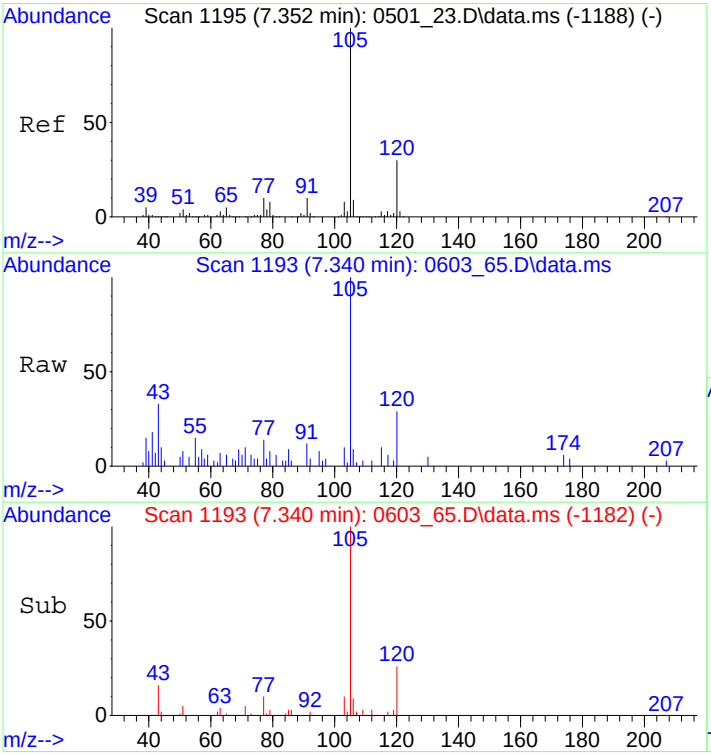


#63
M&P-XYLENE
Concen: 1.3837491 ppb
RT: 6.440 min Scan# 1045
Delta R.T. -0.006 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:106 Resp: 12868

Ion	Ratio	Lower	Upper
106	100		
91	213.1	163.3	244.9

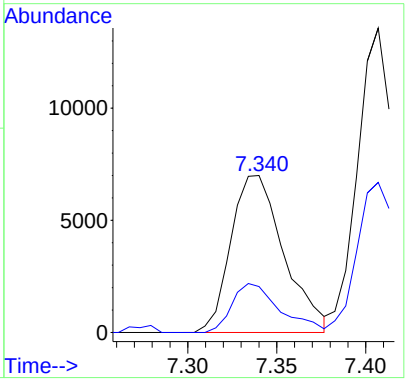


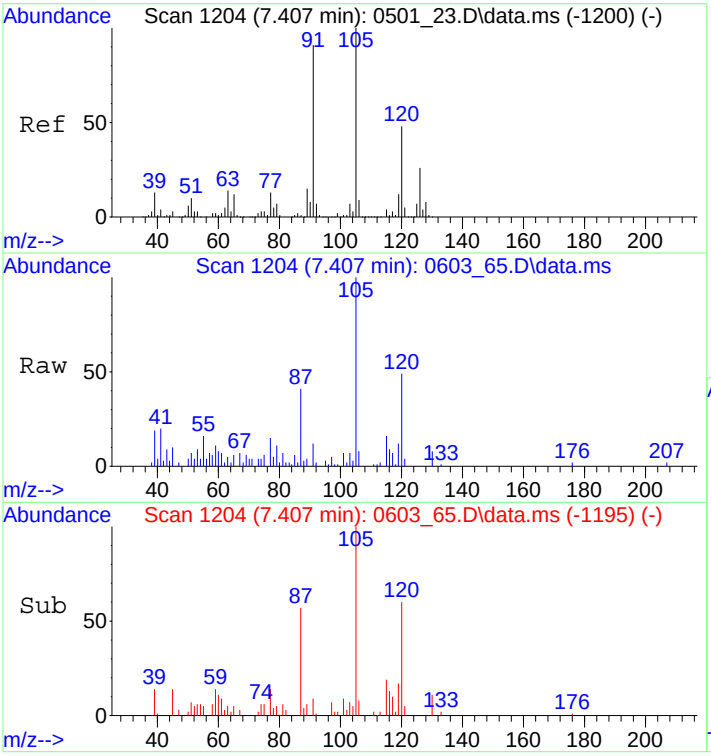


#74
4-ETHYLTOLUENE
Concen: 0.6583864 ppb
RT: 7.340 min Scan# 1193
Delta R.T. -0.012 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:105 Resp: 14545

Ion	Ratio	Lower	Upper
105	100		
120	28.2	23.2	34.8

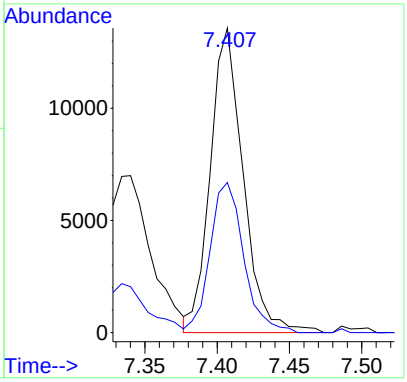


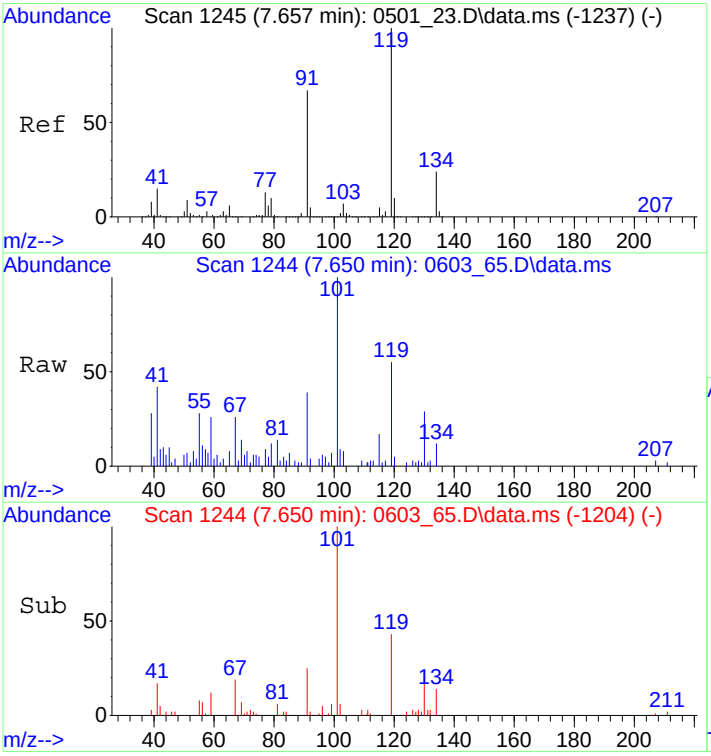


#77
1,3,5-Trimethylbenzene
Concen: 1.1058025 ppb
RT: 7.407 min Scan# 1204
Delta R.T. -0.006 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:105 Resp: 21509

Ion	Ratio	Lower	Upper
105	100		
120	50.3	39.8	59.6

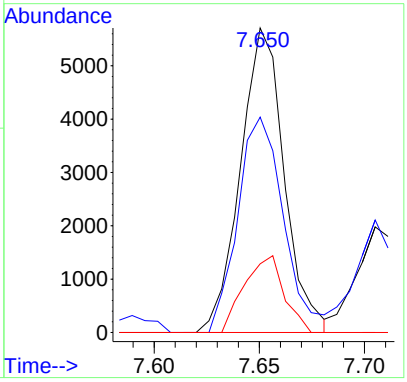


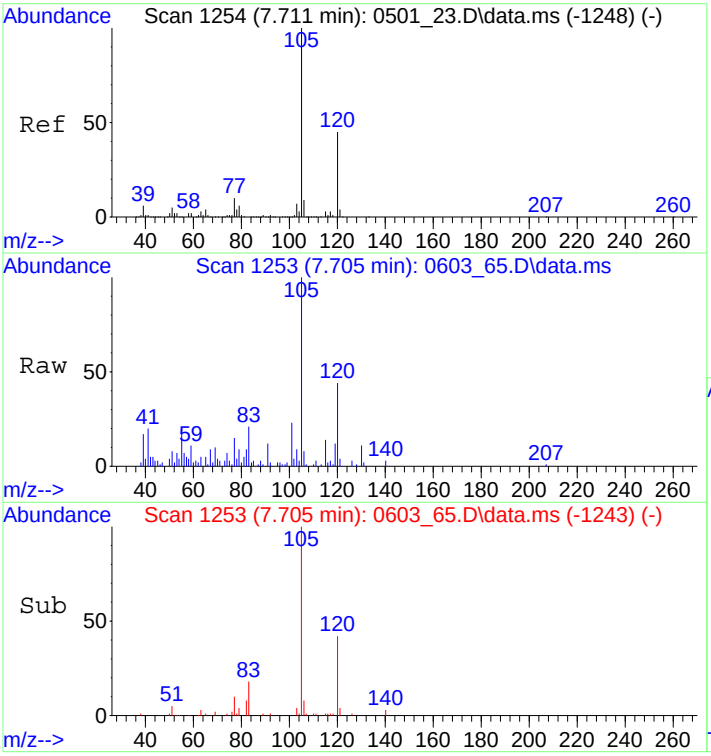


#78
tert-Butylbenzene
Concen: 0.5133973 ppb
RT: 7.650 min Scan# 1244
Delta R.T. -0.006 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:119 Resp: 8294

Ion	Ratio	Lower	Upper
119	100		
91	74.1	54.5	81.7
134	22.9	19.8	29.6

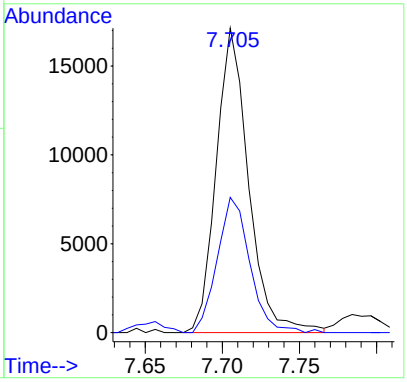


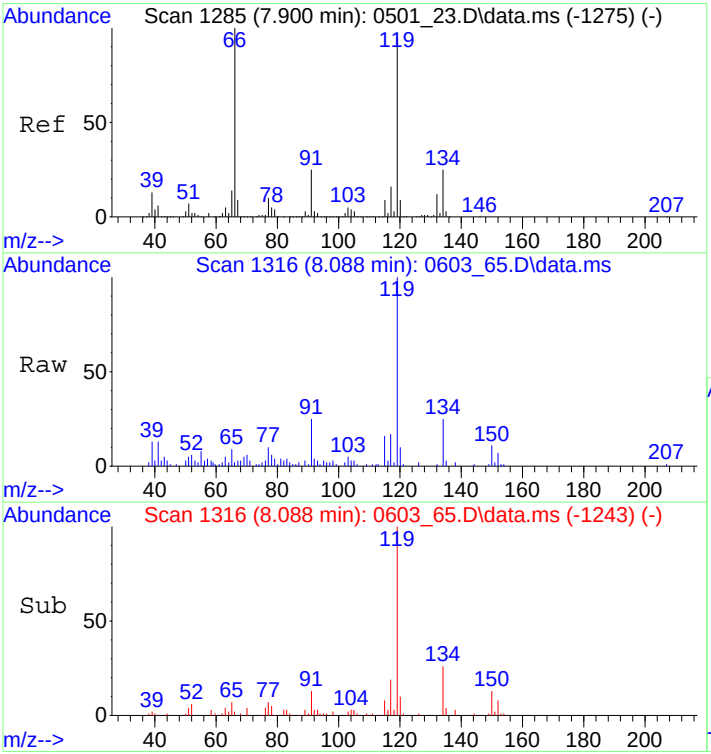


#79
1,2,4-Trimethylbenzene
Concen: 1.3067879 ppb
RT: 7.705 min Scan# 1253
Delta R.T. -0.006 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:105 Resp: 24992

Ion	Ratio	Lower	Upper
105	100		
120	44.9	36.8	55.2

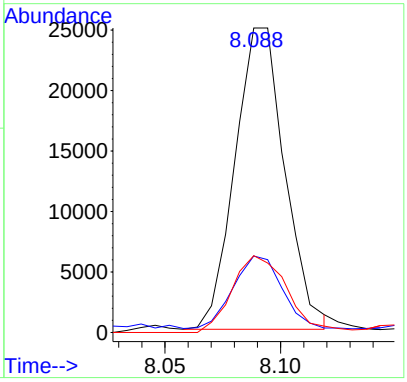


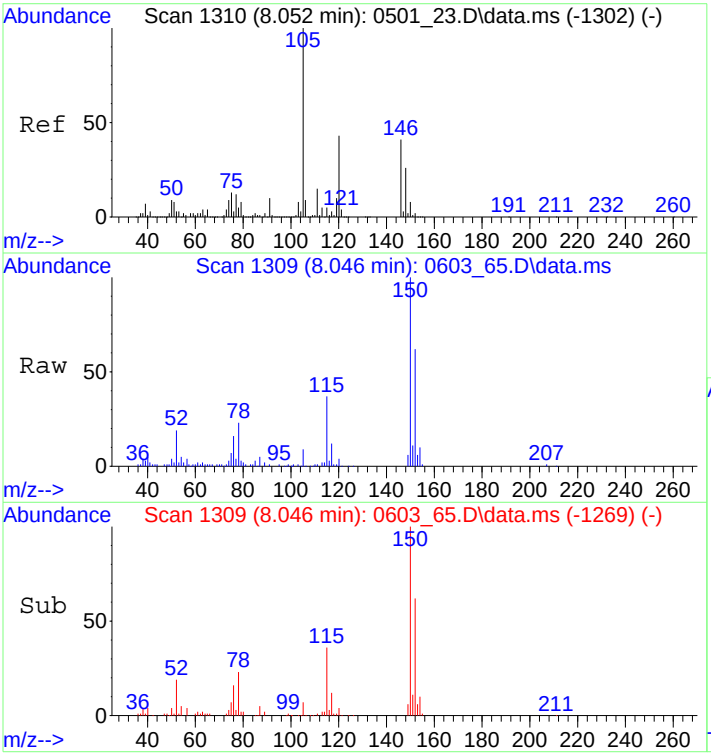


#82
p-Isopropyltoluene
Concen: 1.8187298 ppb
RT: 8.088 min Scan# 1316
Delta R.T. 0.195 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:119 Resp: 37436

Ion	Ratio	Lower	Upper
119	100		
91	24.3	21.9	32.9
134	27.6	20.6	31.0

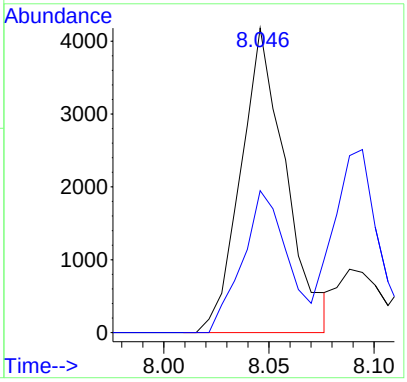


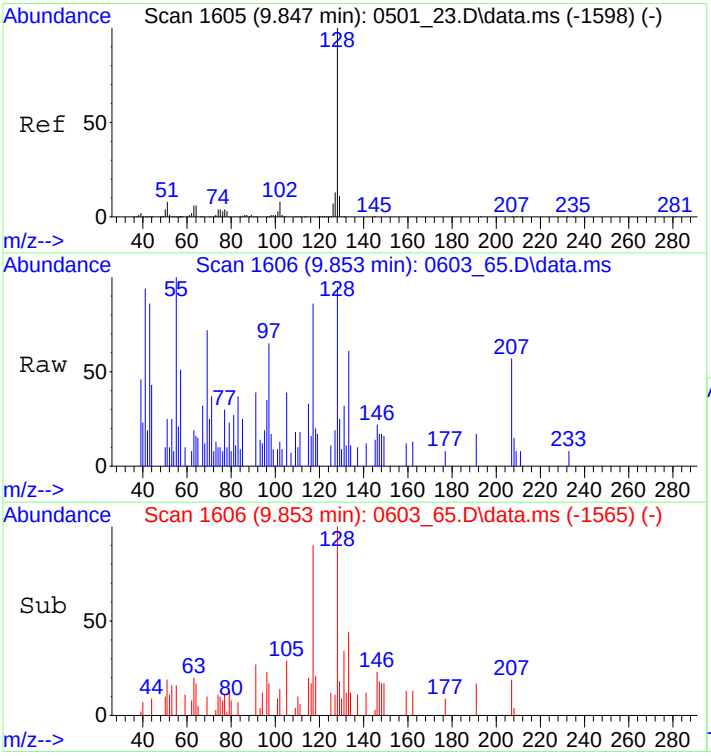


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.3465694 ppb
RT: 8.046 min Scan# 1309
Delta R.T. -0.006 min
Lab File: 0603 65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:105 Resp: 6214

Ion	Ratio	Lower	Upper
105	100		
120	47.1	34.2	51.2

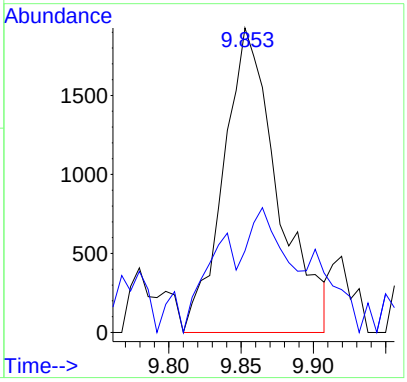




#92
Naphthalene
Concen: 0.3924768 ppb
RT: 9.853 min Scan# 1606
Delta R.T. -0.000 min
Lab File: 0603_65.D
Acq: 4 Jun 2015 7:38 am

Tgt Ion:128 Resp: 5026

Ion	Ratio	Lower	Upper
128	100		
129	18.7	8.5	12.7#



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Amy Green
Date Released : 6/2/2015 10:07:45 AM
Run ID : 060115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0601_01	INSTBLK	V807C24O						1	1	06/01/15 0813	"water IS/SURR15A20860"
2	0601_01T	INSTBLK								1	06/1/15 0813	
3	0601_02	ICV VMS 25 PPB	V807C24O						1	1	06/01/15 0832	"soil IS/SURR15A20860"
4	0601_03	LCS	V807C24O	WG792503	V8260/465	SS			1	1	06/01/15 0859	"soil IS/SURR15A20860"
5	0601_04	LCSD	V807C24O	WG792503	V8260/465	SS			1	1	06/01/15 0918	"soil IS/SURR15A20860"
6	0601_05	INSTBLK	V807C24O						1	1	06/01/15 0938	"water IS/SURR15A20860"
7	0601_06	BLANK	V807C24O	WG792503	V8260/465	SS			1	1	06/01/15 0957	"soil IS/SURR15A20860"
8	0601_07	L767594-01	V807C24O	WG792503	V8260/465	SS	RESPARMWI	WI	25	25	06/01/15 1050	"soil IS/SURR15A20860"
9	0601_08	MS	V807C24O	WG792503	V8260/465	SS			26.5	26.5	06/01/15 1215	"SOIL IS/SURR15A20860"
10	0601_09	MSD	V807C24O	WG792503	V8260/465	SS			26.5	26.5	06/01/15 1234	"SOIL IS/SURR15A20860"
11	0601_10	INSTBLK	V807C24O						1	5	06/01/15 1254	"SOIL IS/SURR15A20860"
12	0601_11	L767698-01	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	26.5	26.5	06/01/15 1313	"SOIL IS/SURR15A20860"
13	0601_12	L767698-02	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	28.5	28.5	06/01/15 1332	"SOIL IS/SURR15A20860"
14	0601_13	L767698-03	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	27.5	27.5	06/01/15 1352	"SOIL IS/SURR15A20860"
15	0601_14	L767698-04	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.5	25.5	06/01/15 1411	"SOIL IS/SURR15A20860"
16	0601_15	L767698-05	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.5	25.5	06/01/15 1430	"SOIL IS/SURR15A20860"
17	0601_16	L767698-06	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	27.25	27.25	06/01/15 1450	"SOIL IS/SURR15A20860"
18	0601_17	L767698-07	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	24.75	24.75	06/01/15 1509	"SOIL IS/SURR15A20860"
19	0601_18	L767698-08	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25	25	06/01/15 1528	"SOIL IS/SURR15A20860"
20	0601_19	L767698-09	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.75	25.75	06/01/15 1547	"SOIL IS/SURR15A20860"
21	0601_20	L767698-10	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	27.25	27.25	06/01/15 1607	"SOIL IS/SURR15A20860"
22	0601_21	L767698-11	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	27	27	06/01/15 1626	"SOIL IS/SURR15A20860"
23	0601_22	L767698-12	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	26	26	06/01/15 1645	"SOIL IS/SURR15A20860"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Amy Green
Date Released : 6/2/2015 10:07:46 AM
Run ID : 060115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
24	0601_23	L767698-13	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	26.25	26.25	06/01/15 1705	"SOIL IS/SURR15A20860"
25	0601_24	L767791-01	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.75	25.75	06/01/15 1724	"SOIL IS/SURR15A20860"
26	0601_25	L767937-01	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	26.75	26.75	06/01/15 1743	"SOIL IS/SURR15A20860"
27	0601_26	L767937-02	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.5	25.5	06/01/15 1803	"SOIL IS/SURR15A20860"
28	0601_27	L767937-03	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.25	25.25	06/01/15 1822	"SOIL IS/SURR15A20860"
29	0601_28	L767937-04	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	26.75	26.75	06/01/15 1841	"SOIL IS/SURR15A20860"
30	0601_29	L767937-05	V807C24O	WG792503	V8260/465	SS	PINNENGMN	MN	25.25	25.25	06/01/15 1901	"SOIL IS/SURR15A20860"
31	0601_30	INSTBLK	V807C24O						1	1	06/01/15 2023	"water IS/SURR15A20860"
32	0601_30T	INSTBLK VMS								1	06/1/15 2023	
33	0601_31	DNRICV VMS 25 PPB	V807C24O						1	1	06/01/15 2042	"water IS/SURR15A20860"
34	0601_32	ICV VMS 25 PPB 15E24223	V807C24O						1	1	06/01/15 2233	"water IS/SURR15A20860"
35	0601_33	DNR	V807C24O						1	1	06/01/15 2252	"water IS/SURR15A20860"
36	0601_34	LCS	V807C24O	WG791367	V8260	GW			1	1	06/01/15 2312	"water IS/SURR15A20860/SPK15E24227"
37	0601_35	INSTBLK	V807C24O						1	1	06/01/15 2331	"water IS/SURR15A20860"
38	0601_36	BLANK	V807C24O	WG791367	V8260	GW			1	1	06/01/15 2350	"water IS/SURR15A20860"
39	0601_37	LCSD	V807C24O	WG791367	V8260	GW			1	1	06/02/15 0010	"water IS/SURR15A20860/SPK15E24227"
40	0601_38	MS	V807C24O	WG791367	V8260	GW			1	1	06/02/15 0029	"water IS/SURR15A20860/SPK15E24227"
41	0601_39	MSD	V807C24O	WG791367	V8260	GW			1	1	06/02/15 0048	"water IS/SURR15A20860/SPK15E24227"
42	0601_40	MS	V807C24O	WG791367	V8260	GW			1	1	06/02/15 0108	"water IS/SURR15A20860/SPK15E24227"
43	0601_41	MSD	V807C24O	WG791367	V8260	GW			1	1	06/02/15 0127	"water IS/SURR15A20860/SPK15E24227"
44	0601_42	INSTBLK	V807C24O						1	1	06/02/15 0146	"water IS/SURR15A20860"
45	0601_43	DNR L766918-09	V807C24O	WG791367					1	1	06/02/15 0206	"water IS/SURR15A20860"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK

Released By : Amy Green
Date Released : 6/2/2015 10:07:46 AM

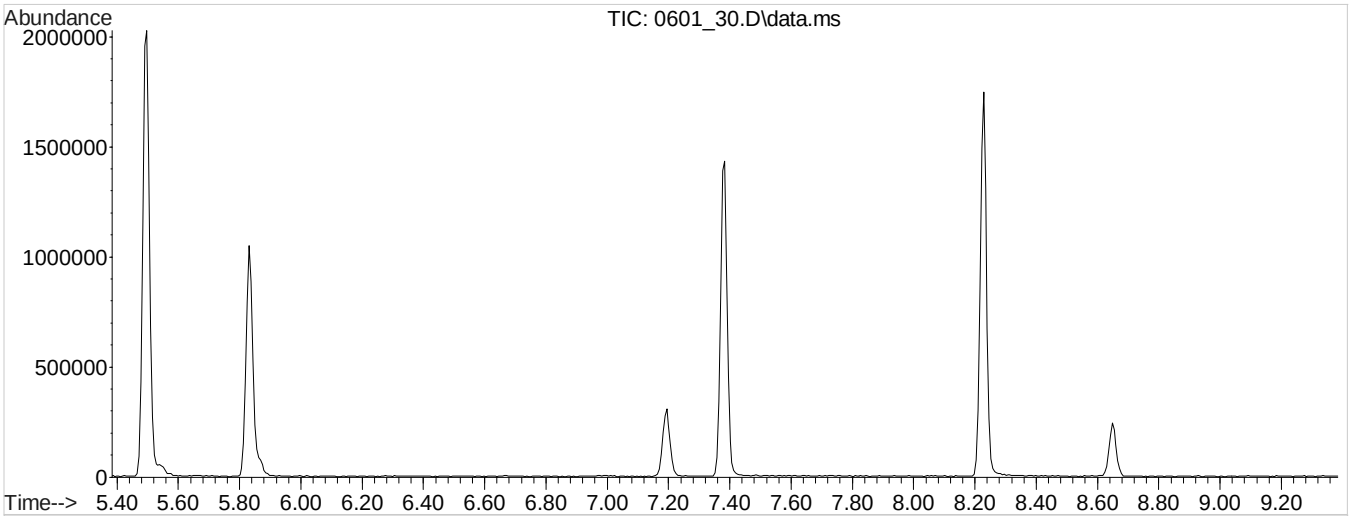
Run ID : 060115
Signature : _____

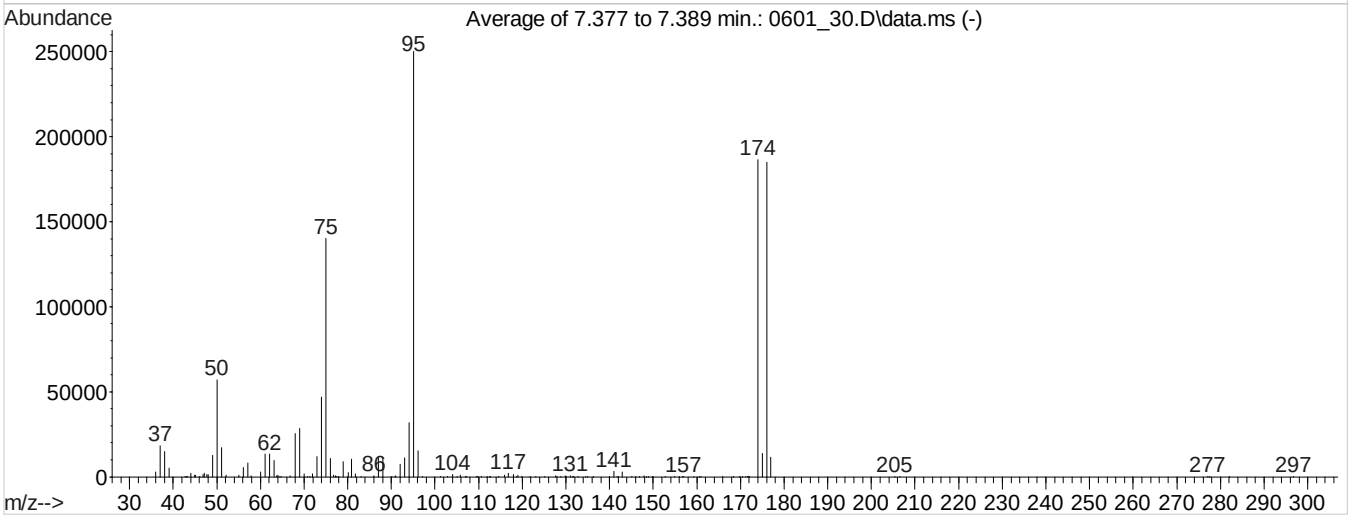
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
46	0601_44	L767115-09	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0225	"water IS/SURR15A20860"
47	0601_45	L767115-11	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0244	"water IS/SURR15A20860"
48	0601_46	L767115-07	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0304	"water IS/SURR15A20860"
49	0601_47	L767160-06	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0323	"water IS/SURR15A20860"
50	0601_48	L766918-02	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0342	"water IS/SURR15A20860"
51	0601_49	L766918-04	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0402	"water IS/SURR15A20860"
52	0601_50	L766918-06	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0421	"water IS/SURR15A20860"
53	0601_51	L766918-08	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0440	"water IS/SURR15A20860"
54	0601_52	L766950-01	V807C24O	WG791367	V8260TIC	GW	GESPAZ	AZ	1	1	06/02/15 0500	"water IS/SURR15A20860"
55	0601_53	L767115-01	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0519	"water IS/SURR15A20860"
56	0601_54	L767115-02	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0539	"water IS/SURR15A20860"
57	0601_55	L767115-05	V807C24O	WG791367	V8260	GW	URSTAZ	AZ	1	1	06/02/15 0558	"water IS/SURR15A20860"
58	0601_56	L767155-06	V807C24O	WG791367	V8260	GW	EASGSC	MD	1	1	06/02/15 0617	"water IS/SURR15A20860"
59	0601_57	L767155-07	V807C24O	WG791367	V8260	GW	EASGSC	MD	1	1	06/02/15 0637	"water IS/SURR15A20860"
60	0601_58	L767160-01	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0656	"water IS/SURR15A20860"
61	0601_59	L767160-02	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0715	"water IS/SURR15A20860"
62	0601_60	L767160-03	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0735	"water IS/SURR15A20860"
63	0601_61	L767160-04	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0754	"water IS/SURR15A20860"
64	0601_62	L767160-05	V807C24O	WG791367	V8260	GW	ENERCDTX	TX	1	1	06/02/15 0814	"water IS/SURR15A20860"

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 30.D
Acq On : 1 Jun 2015 8:23 pm
Operator : 621
Sample : INSTBLK VMS
Misc : SOIL IS/SURR15A20860
ALS Vial : 30 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807C24O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Wed Mar 25 13:27:30 2015





AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1191

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	57171	PASS
75	95	30	60	56.0	140104	PASS
95	95	100	100	100.0	250197	PASS
96	95	5	9	6.1	15244	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	74.5	186389	PASS
175	174	5	9	7.4	13790	PASS
176	174	95	101	99.3	185152	PASS
177	176	5	9	6.3	11573	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 32.D
Acq On : 1 Jun 2015 10:33 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E24223
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:56:51 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	529655	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	896063	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	157049	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	372507	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	529655	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	896063	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	157049	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	372507	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	275958	42.9092381	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.27%			
46) a,a,a-Trifluorotoluene	5.034	146	492878	41.5403566	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.85%			
50) TOLUENE-D8	5.497	98	1133374	44.7398540	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 111.85%#			
68) 4-BROMOFLUOROBENZENE	7.377	95	428468	42.5954675	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.49%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	48666	40.5622931	ppb	99
4) DICHLORODIFLUOROMETHANE	1.701	85	193445	28.5087074	ppb	97
5) CHLOROMETHANE	1.877	50	233870	27.1934307	ppb	99
6) VINYL CHLORIDE	1.944	62	222874	28.1081987	ppb	99
7) 1,3-BUTADIENE	1.962	39	188623	31.2729193	ppb	94
8) BROMOMETHANE	2.206	94	107259	25.0415369	ppb	94
9) CHLOROETHANE	2.291	66	34339	30.2045441	ppb	96
10) TRICHLOROFLUOROMETHANE	2.394	101	258159	28.0491327	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	336268	27.7888307	ppb	99
12) ETHYL ETHER	2.595	59	137083	25.4261138	ppb	93
13) ACROLEIN	2.948	56	149453	126.8419835	ppb	96
14) 1,1-DICHLOROETHENE	2.741	61	279125	28.6615207	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	154056	28.4352312	ppb	93
16) ACETONE	3.112	43	478138	119.1024136	ppb	95
17) IODOMETHANE	2.844	142	978237	140.2766247	ppb	97
18) CARBON DISULFIDE	2.777	76	525828	25.9764091	ppb	100
19) METHYLENE CHLORIDE	3.094	84	159474	25.1516691	ppb	95
20) ACRYLONITRILE	3.574	53	285791	111.1459986	ppb	99
21) n-Hexane	3.222	56	165368	25.4174156	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.191	96	152297	25.6152557	ppb	97
23) METHYL TERT-BUTYL ETHER	3.234	73	458541	24.5834991	ppb	85
24) 1,1-DICHLOROETHANE	3.550	63	323699	27.9815311	ppb	99
25) VINYL ACETATE	3.653	43	1886849	171.3776004	ppb	98
26) DI-ISOPROPYL ETHER	3.434	45	606930	26.1096625	ppb	99
27) 2,2-Dichloropropane	3.915	77	272318	26.2850729	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.854	96	160416	23.5955446	ppb	96
29) 2-BUTANONE (MEK)	4.158	72	122975	120.4851542	ppb	95
30) BROMOCHLOROMETHANE	3.970	130	89578	24.2932987	ppb	92
31) TETRAHYDROFURAN	4.098	42	49330	21.0057283	ppb	92
32) CHLOROFORM	3.994	83	292024	25.9364802	ppb #	99
34) 1,1,1-TRICHLOROETHANE	4.128	97	237385	25.8352060	ppb	97
35) CARBON TETRACHLORIDE	4.091	117	225229	27.2409369	ppb	96
36) 1,1-Dichloropropene	4.189	75	243494	27.5823031	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 32.D
Acq On : 1 Jun 2015 10:33 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E24223
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:56:51 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	729551	26.2610754	ppb		100
38)	HEPTANE	4.268	43	329002	26.1448798	ppb		92
39)	BENZENE	4.335	78	620113	25.2908477	ppb		98
40)	1,2-DICHLOROETHANE	4.450	62	241208	27.6327445	ppb		97
42)	TRICHLOROETHENE	4.663	130	146200	25.1572568	ppb		96
43)	1,2-DICHLOROPROPANE	4.974	62	124319	26.4717108	ppb		96
44)	DIBROMOMETHANE	4.925	93	96411	26.0732579	ppb		95
45)	BROMODICHLOROMETHANE	4.998	83	214301	24.2645050	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.308	63	19771	117.6403566	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.375	75	274368	25.5957784	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.740	58	329668	120.5905979	ppb		93
51)	TOLUENE	5.527	91	667692	26.1945140	ppb		97
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	51454	22.4879243	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.892	97	123296	21.6992370	ppb		97
55)	TETRACHLOROETHENE	5.783	164	115683	25.2381229	ppb		94
56)	1,3-Dichloropropane	6.081	76	238403	24.0577231	ppb		99
57)	2-HEXANONE	6.288	58	370795	123.8921890	ppb		99
58)	CHLORODIBROMOMETHANE	6.020	129	138624	23.7338797	ppb		97
59)	1,2-DIBROMOETHANE	6.202	107	128745	23.0422047	ppb		98
60)	CHLOROBENZENE	6.537	112	390938	24.3318862	ppb		94
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	125156	23.4295346	ppb	#	94
62)	ETHYLBENZENE	6.531	106	225101	25.4564798	ppb		92
63)	M&P-XYLENE	6.628	106	538092	48.6361933	ppb		94
64)	O-XYLENE	6.933	106	264787	24.8285233	ppb		96
65)	STYRENE	6.975	104	420815	24.4679660	ppb		92
66)	Bromoform	7.018	173	82790	23.1664390	ppb		94
67)	Isopropylbenzene	7.152	105	730442	25.3732779	ppb		97
69)	Bromobenzene	7.468	77	324802	24.5588356	ppb		92
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	170997	22.2090562	ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.626	110	45225	22.1761452	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	53546	22.1177672	ppb		94
73)	n-Propylbenzene	7.456	91	885414	25.9419679	ppb		97
74)	4-ETHYLTOLUENE	7.535	105	703460	25.2971223	ppb		99
75)	2-Chlorotoluene	7.596	126	149119	23.9952338	ppb	#	95
76)	4-Chlorotoluene	7.717	91	528640	24.4460290	ppb		97
77)	1,3,5-Trimethylbenzene	7.590	105	575031	24.1082455	ppb		99
78)	tert-Butylbenzene	7.839	119	474263	23.7524488	ppb		96
79)	1,2,4-Trimethylbenzene	7.894	105	589396	23.8472513	ppb		99
80)	sec-Butylbenzene	7.979	105	786001	24.8337540	ppb		95
81)	1,3-DICHLOROBENZENE	8.174	146	296852	22.8652347	ppb		99
82)	p-Isopropyltoluene	8.076	119	630383	24.2992142	ppb		97
83)	DICYCLOPENTADIENE	8.088	66	756514	26.3986860	ppb		98
85)	1,4-DICHLOROBENZENE	8.240	146	294470	25.4390579	ppb		94
86)	1,2,3-TRIMETHYLBENZENE	8.240	105	554498	26.3654175	ppb		100
87)	1,2-DICHLOROBENZENE	8.575	146	287854	27.0749222	ppb		96
88)	n-Butylbenzene	8.411	91	646696	28.6532722	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.220	157	28031	20.4066445	ppb	#	82
90)	1,2,4-Trichlorobenzene	9.774	180	187113	26.3092497	ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	108548	26.3643328	ppb		95
92)	Naphthalene	10.041	128	421524	21.3705192	ppb		98
93)	1,2,3-Trichlorobenzene	10.199	180	150841	22.5541492	ppb		100
94)	1-Methylnaphthalene	10.856	142	143218	14.8165777	ppb		94
95)	2-Methylnaphthalene	10.972	142	113866	14.2918992	ppb		91
97)	ETHANOL	2.680	45	874	9.0561006	ppb	#	21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 32.D
Acq On : 1 Jun 2015 10:33 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E24223
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:56:51 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

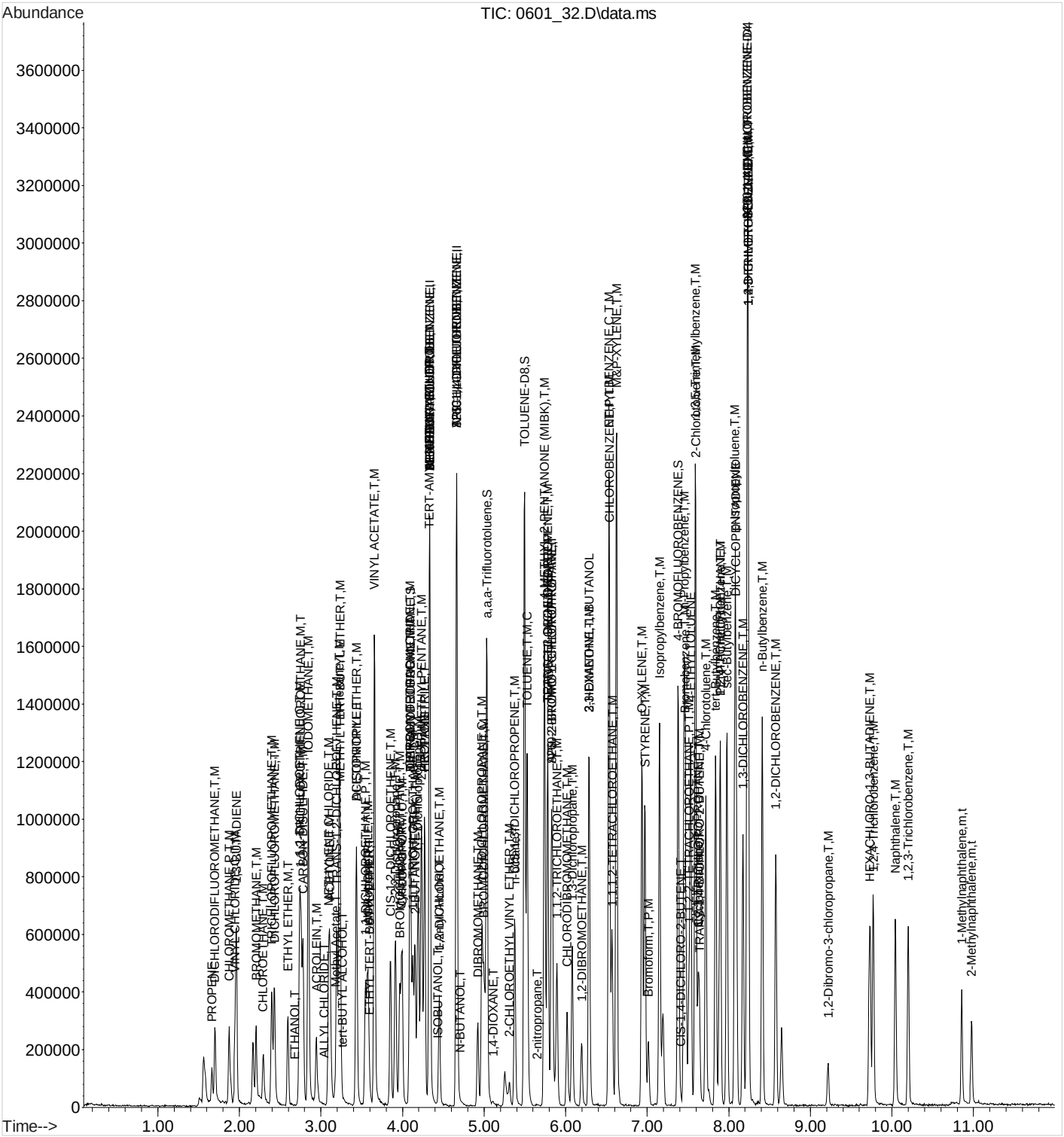
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	2-PROPANOL	3.003	45	574	Below Cal	#	59	
100)	Methyl Acetate	3.179	43	35614	6.2828864	ppb	#	99
101)	ACETONITRILE	3.434	41	104724	116.5543103	ppb	#	32
102)	ALLYL CHLORIDE	3.039	76	1016	0.3057548	ppb	#	1
103)	tert-BUTYL ALCOHOL	3.264	59	671	0.5604559	ppb	#	62
104)	chloroprene	3.574	53	285791	26.5524201	ppb	#	28
105)	ETHYL TERT-BUTYL ETHER	3.593	59	34341	1.6137712	ppb	#	41
106)	PROPIONITRILE	4.268	54	5040	5.6217013	ppb	#	1
108)	METHACRYLONITRILE	4.335	67	2496	0.9965434	ppb	#	1
109)	Cyclohexane	3.988	84	10590	0.9749754	ppb	#	10
111)	ISOBUTANOL	4.432	43	800	1.8910569	ppb	#	75
112)	t-Amyl Alcohol	4.450	59	2016	3.0287567	ppb	#	17
113)	TERT-AMYL METHYL ETHER	4.329	73	12230	0.6867702	ppb	#	10
115)	N-BUTANOL	4.706	56	714	3.3058535	ppb	#	16
117)	2-nitropropane	5.649	43	854	0.3498059	ppb	#	1
119)	1,4-DIOXANE	5.114	88	1980	27.1086399	ppb	#	60
120)	n-octane	5.381	85	2746	0.4110934	ppb	#	36
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	132998	199.0913474	ppb	#	46
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	3286	1.4588900	ppb	#	24
125)	Cyclohexanone	7.632	55	817	0.5391462	ppb	#	1
126)	PENTACHLOROETHANE	7.894	117	20256	5.5043273	ppb	#	10

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 32.D
Acq On : 1 Jun 2015 10:33 pm
Operator : 621
Sample : ICV VMS 25 ppb 15E24223
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:56:51 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 34.D
Acq On : 1 Jun 2015 11:12 pm
Operator : 621
Sample : LCS 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:01 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	444634	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	732095	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	122121	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	324221	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	444634	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	732095	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	122121	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	324221	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	242159	44.8537581 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.13%		
46) a,a,a-Trifluorotoluene	5.035	146	401854	41.4543573 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.64%		
50) TOLUENE-D8	5.497	98	893742	43.1821825 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.96%		
68) 4-BROMOFLUOROBENZENE	7.377	95	362368	46.3275847 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 115.82%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	26538	26.0649122 ppb	92
4) DICHLORODIFLUOROMETHANE	1.707	85	152523	26.7760040 ppb	96
5) CHLOROMETHANE	1.877	50	165482	22.9208465 ppb	99
6) VINYL CHLORIDE	1.950	62	182931	27.4821891 ppb	99
7) 1,3-BUTADIENE	1.962	39	163198	32.2313886 ppb	95
8) BROMOMETHANE	2.206	94	103348	28.7421810 ppb	95
9) CHLOROETHANE	2.291	66	32058	34.0400511 ppb	99
10) TRICHLOROFLUOROMETHANE	2.394	101	232551	30.0982182 ppb	96
11) DICHLOROFLUOROMETHANE	2.431	67	306759	30.1976018 ppb	97
12) ETHYL ETHER	2.595	59	133923	29.5897954 ppb	97
13) ACROLEIN	2.948	56	130539	131.9742117 ppb	96
14) 1,1-DICHLOROETHENE	2.741	61	257198	31.4599832 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	134682	29.6127070 ppb	99
16) ACETONE	3.112	43	491140	145.7347147 ppb	96
17) IODOMETHANE	2.844	142	904306	154.4710299 ppb	100
18) CARBON DISULFIDE	2.777	76	487777	28.7043114 ppb	98
19) METHYLENE CHLORIDE	3.100	84	152896	28.7252260 ppb	98
20) ACRYLONITRILE	3.574	53	220205	102.0147260 ppb	98
21) n-Hexane	3.222	56	164433	30.1064331 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.191	96	143531	28.7569926 ppb	96
23) METHYL TERT-BUTYL ETHER	3.234	73	440368	28.1236500 ppb	91
24) 1,1-DICHLOROETHANE	3.550	63	252800	26.0314041 ppb	98
25) VINYL ACETATE	3.654	43	1224563	132.4916328 ppb	100
26) DI-ISOPROPYL ETHER	3.435	45	457037	23.4209454 ppb	99
27) 2,2-Dichloropropane	3.915	77	227466	26.1540973 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.848	96	129726	22.7300168 ppb	100
29) 2-BUTANONE (MEK)	4.152	72	95374	111.3107506 ppb	93
30) BROMOCHLOROMETHANE	3.970	130	75532	24.4009379 ppb	93
31) TETRAHYDROFURAN	4.092	42	38366	19.4609286 ppb	99
32) CHLOROFORM	3.994	83	246053	26.0322415 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.128	97	217376	28.1812761 ppb	99
35) CARBON TETRACHLORIDE	4.092	117	198578	28.6100931 ppb	90
36) 1,1-Dichloropropene	4.189	75	193971	26.1739624 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 34.D
Acq On : 1 Jun 2015 11:12 pm
Operator : 621
Sample : LCS 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:01 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	539820	23.1470808 ppb		99
38) HEPTANE	4.274	43	228377	21.6187651 ppb		94
39) BENZENE	4.335	78	482572	23.4447215 ppb		97
40) 1,2-DICHLOROETHANE	4.450	62	208778	28.4909844 ppb		97
42) TRICHLOROETHENE	4.663	130	122048	25.7050043 ppb		91
43) 1,2-DICHLOROPROPANE	4.980	62	93496	24.3673688 ppb		90
44) DIBROMOMETHANE	4.925	93	77236	25.5658120 ppb		98
45) BROMODICHLOROMETHANE	4.998	83	193056	26.7547962 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	19638	143.0197637 ppb		91
48) CIS-1,3-DICHLOROPROPENE	5.381	75	224198	25.5998678 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.740	58	269394	120.6134327 ppb		94
51) TOLUENE	5.527	91	519353	24.9383618 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.777	110	41893	22.4100484 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.886	97	109977	24.8909898 ppb		96
55) TETRACHLOROETHENE	5.783	164	90430	25.3714251 ppb		99
56) 1,3-Dichloropropane	6.081	76	202828	26.3217971 ppb		97
57) 2-HEXANONE	6.288	58	280025	120.3238409 ppb		91
58) CHLORODIBROMOMETHANE	6.020	129	123594	27.2127556 ppb		99
59) 1,2-DIBROMOETHANE	6.196	107	110140	25.3503264 ppb		96
60) CHLOROBENZENE	6.537	112	323654	25.9056022 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.568	133	115005	27.6868490 ppb	#	98
62) ETHYLBENZENE	6.531	106	175518	25.5262730 ppb		82
63) M&P-XYLENE	6.622	106	450188	52.3289209 ppb		93
64) O-XYLENE	6.933	106	218185	26.3101876 ppb		93
65) STYRENE	6.969	104	350339	26.1963006 ppb		91
66) Bromoform	7.018	173	72853	26.2164367 ppb		97
67) Isopropylbenzene	7.152	105	611618	27.3222160 ppb		98
69) Bromobenzene	7.468	77	276427	26.8790776 ppb		94
70) 1,1,2,2-TETRACHLOROETHANE	7.504	83	142553	23.8101865 ppb		97
71) 1,2,3-TRICHLOROPROPANE	7.626	110	41517	26.1805200 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	50060	26.5919335 ppb		93
73) n-Propylbenzene	7.456	91	728612	27.4534972 ppb		99
74) 4-ETHYLTOLUENE	7.529	105	561567	25.9703686 ppb		97
75) 2-Chlorotoluene	7.596	126	118482	24.5182350 ppb	#	83
76) 4-Chlorotoluene	7.717	91	442688	26.3263636 ppb		96
77) 1,3,5-Trimethylbenzene	7.590	105	488858	26.3573593 ppb		96
78) tert-Butylbenzene	7.839	119	431330	27.7807288 ppb		96
79) 1,2,4-Trimethylbenzene	7.894	105	500157	26.0244955 ppb		98
80) sec-Butylbenzene	7.979	105	634948	25.7989635 ppb		98
81) 1,3-DICHLOROBENZENE	8.174	146	256997	25.4570785 ppb		94
82) p-Isopropyltoluene	8.076	119	528435	26.1953457 ppb		99
83) DICYCLOPENTADIENE	8.088	66	596206	26.7550955 ppb		99
85) 1,4-DICHLOROBENZENE	8.241	146	253267	25.1380665 ppb		92
86) 1,2,3-TRIMETHYLBENZENE	8.234	105	483118	26.3925398 ppb		100
87) 1,2-DICHLOROBENZENE	8.575	146	242418	26.1970935 ppb		98
88) n-Butylbenzene	8.411	91	512653	26.0970159 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.214	157	28629	23.9459727 ppb		87
90) 1,2,4-Trichlorobenzene	9.768	180	154482	24.9560405 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.725	225	94774	26.4470640 ppb		98
92) Naphthalene	10.041	128	391040	22.7775626 ppb		100
93) 1,2,3-Trichlorobenzene	10.199	180	141726	24.3472477 ppb		97
94) 1-Methylnaphthalene	10.850	142	141735	16.8469273 ppb		94
95) 2-Methylnaphthalene	10.972	142	118853	17.1395465 ppb		93
97) ETHANOL	2.644	45	1158	14.2931771 ppb	#	30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 34.D
Acq On : 1 Jun 2015 11:12 pm
Operator : 621
Sample : LCS 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:01 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

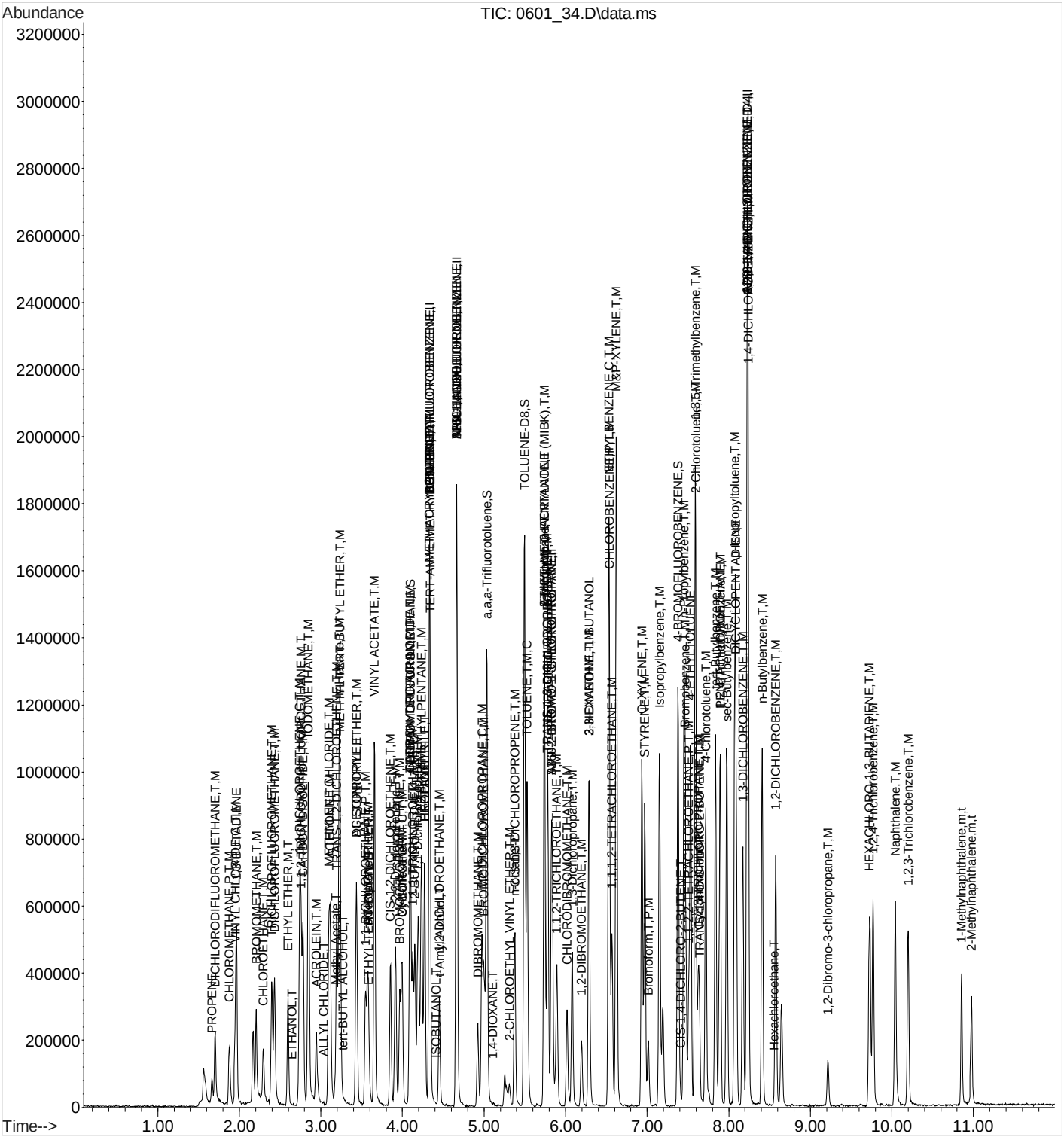
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	2-PROPANOL	3.015	45	606	Below Cal		#	59
100)	Methyl Acetate	3.179	43	46977	9.8722044	ppb	#	92
101)	ACETONITRILE	3.435	41	82877	109.8769375	ppb	#	32
102)	ALLYL CHLORIDE	3.033	76	1038	0.3721066	ppb	#	1
103)	tert-BUTYL ALCOHOL	3.270	59	725	0.7213521	ppb	#	1
104)	chloroprene	3.574	53	220205	24.3709886	ppb	#	28
105)	ETHYL TERT-BUTYL ETHER	3.587	59	38237	2.1404409	ppb	#	41
106)	PROPIONITRILE	4.274	54	2666	3.5423199	ppb	#	1
108)	METHACRYLONITRILE	4.329	67	2139	1.0173089	ppb	#	1
109)	Cyclohexane	3.994	84	6604	0.7242611	ppb	#	12
111)	ISOBUTANOL	4.408	43	1287	3.6239614	ppb	#	75
112)	t-Amyl Alcohol	4.457	59	1787	3.1980763	ppb	#	17
113)	TERT-AMYL METHYL ETHER	4.341	73	9489	0.6347400	ppb	#	1
115)	N-BUTANOL	4.663	56	21371	121.1103727	ppb	#	21
117)	2-nitropropane	5.740	43	755793	378.9162244	ppb	#	43
119)	1,4-DIOXANE	5.107	88	582	9.7529641	ppb	#	1
120)	n-octane	5.375	85	3302	0.6050457	ppb	#	19
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	114236	209.3058504	ppb	#	49
123)	ETHYL METHACRYLATE	5.740	69	5931	0.9548138	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	2852	1.6283559	ppb	#	26
125)	Cyclohexanone	7.638	55	788	0.6687373	ppb	#	1
126)	PENTACHLOROETHANE	7.894	117	16633	5.8125402	ppb	#	13
127)	Hexachloroethane	8.551	117	1031	0.3037739	ppb	#	53

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 34.D
Acq On : 1 Jun 2015 11:12 pm
Operator : 621
Sample : LCS 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:01 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 36.D
Acq On : 1 Jun 2015 11:50 pm
Operator : 621
Sample : BLANK 1x WG791367
Misc : water IS/SURR15A20860
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 09:33:27 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

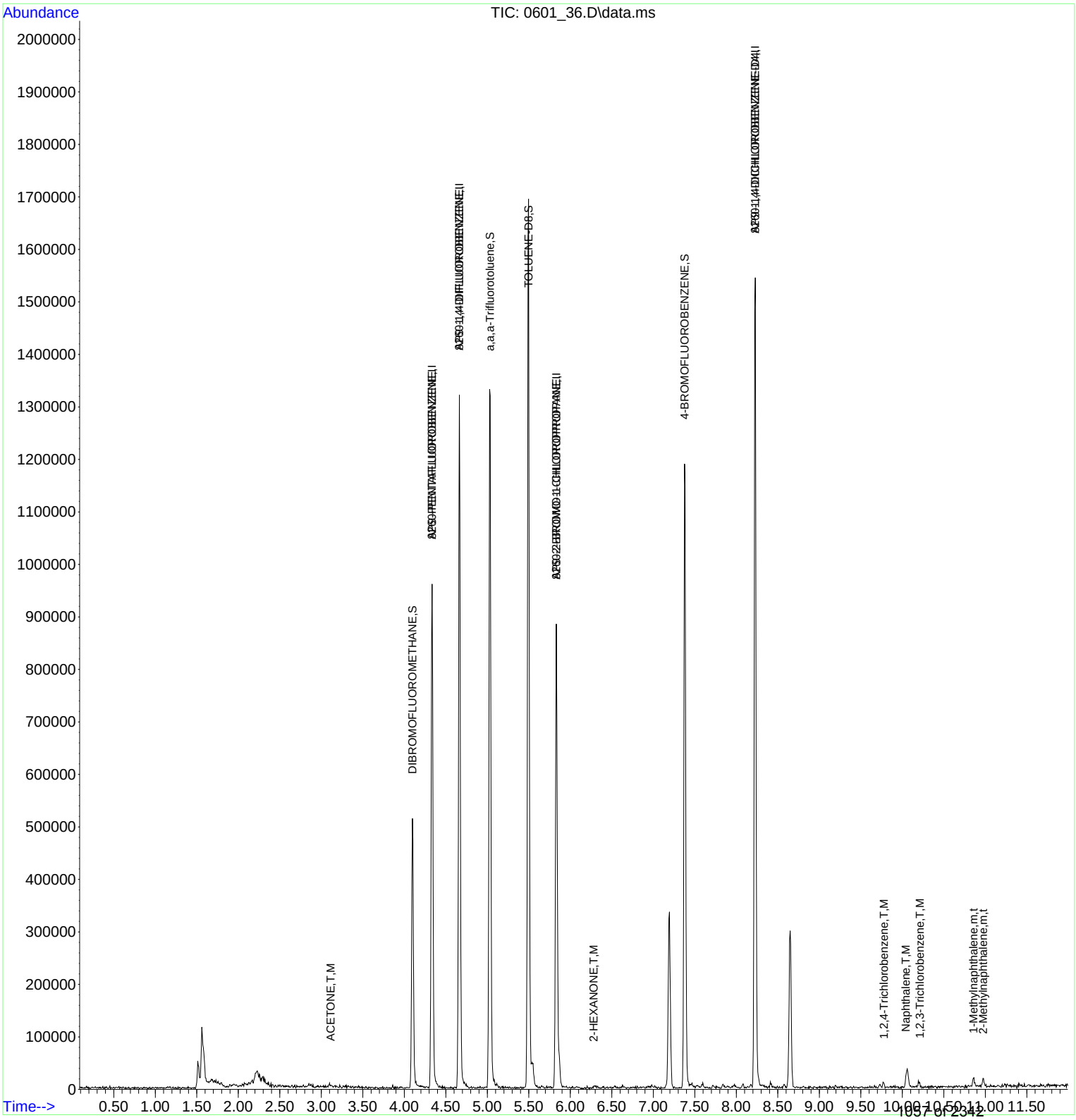
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	468982	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	734147	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	128972	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	332124	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	468982	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	734147	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	128972	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	332124	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	247390	43.4437051 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 108.61%		
46) a,a,a-Trifluorotoluene	5.034	146	407567	41.9261821 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.82%		
50) TOLUENE-D8	5.497	98	907935	43.7453194 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.36%		
68) 4-BROMOFLUOROBENZENE	7.377	95	350077	42.3787669 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.95%		
Target Compounds					Qvalue
16) ACETONE	3.112	43	2352	0.6616701 ppb	# 44
57) 2-HEXANONE	6.282	58	1010	0.4109331 ppb	# 51
90) 1,2,4-Trichlorobenzene	9.780	180	2391	0.3770668 ppb	# 85
92) Naphthalene	10.041	128	7726	0.4393207 ppb	99
93) 1,2,3-Trichlorobenzene	10.211	180	1980	0.3320522 ppb	# 73
94) 1-Methylnaphthalene	10.856	142	6691	0.7763821 ppb	# 89
95) 2-Methylnaphthalene	10.972	142	4771	0.6716445 ppb	# 64

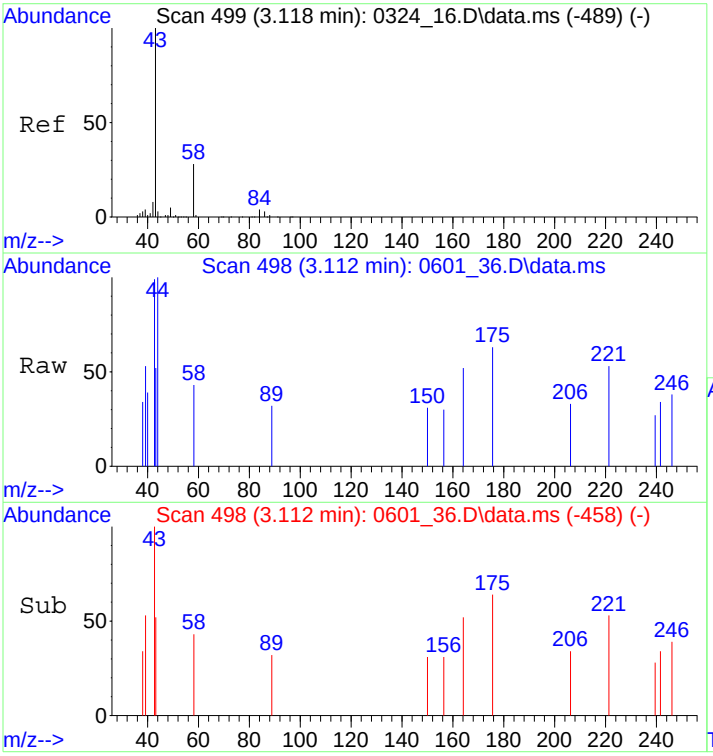
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 36.D
Acq On : 1 Jun 2015 11:50 pm
Operator : 621
Sample : BLANK 1x WG791367
Misc : water IS/SURR15A20860
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 09:33:27 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

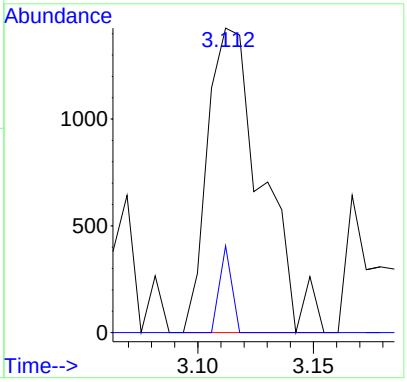


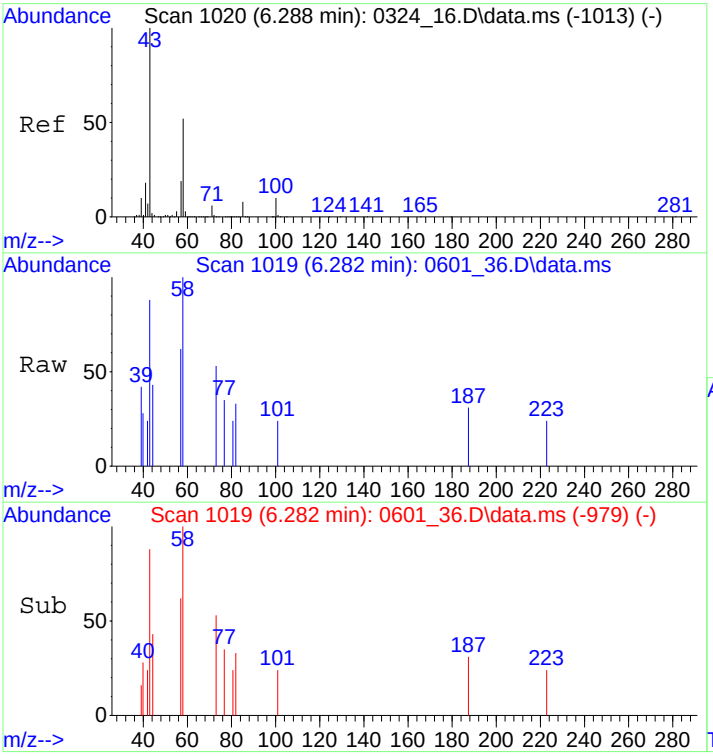


#16
ACETONE
Concen: 0.6616701 ppb
RT: 3.112 min Scan# 498
Delta R.T. -0.006 min
Lab File: 0601 36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion: 43 Resp: 2352

Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.2	36.4#

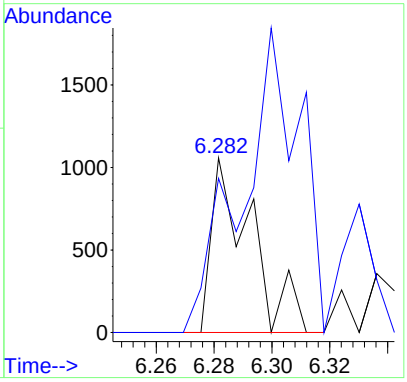


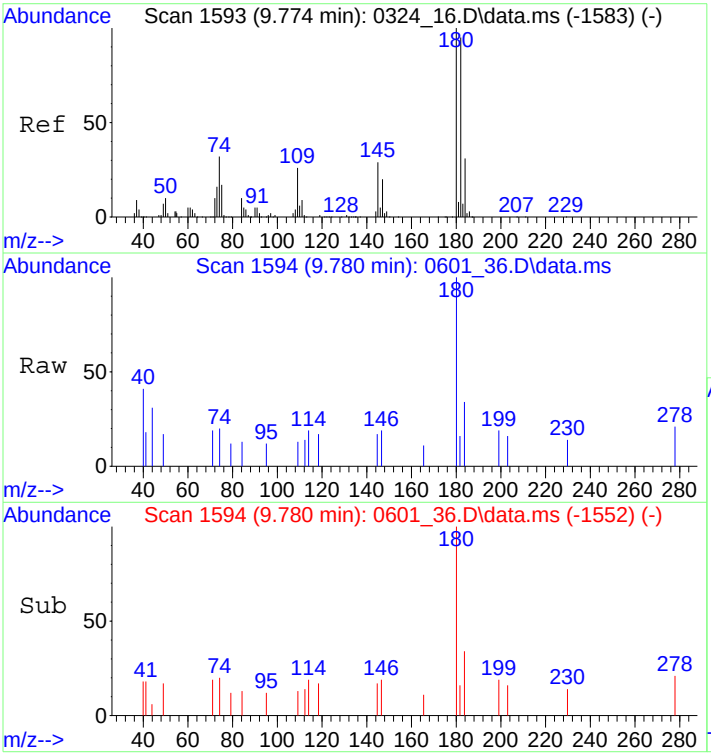


#57
2-HEXANONE
Concen: 0.4109331 ppb
RT: 6.282 min Scan# 1019
Delta R.T. -0.006 min
Lab File: 0601_36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion: 58 Resp: 1010

Ion	Ratio	Lower	Upper
58	100		
43	271.2	157.8	236.6#

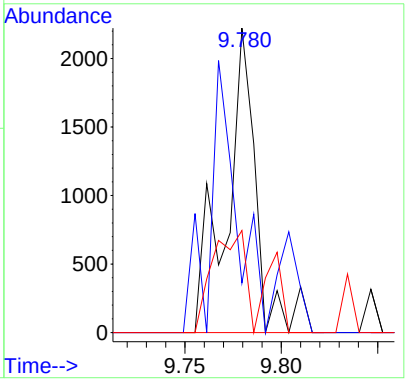


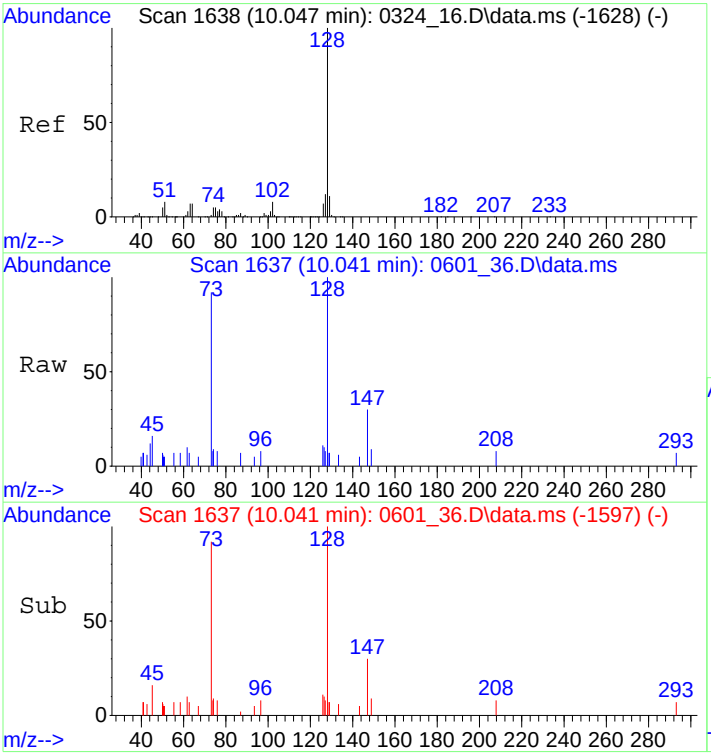


#90
1,2,4-Trichlorobenzene
Concen: 0.3770668 ppb
RT: 9.780 min Scan# 1594
Delta R.T. 0.006 min
Lab File: 0601 36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion:180 Resp: 2391

Ion	Ratio	Lower	Upper
180	100		
182	81.3	77.1	115.7
184	36.8	24.3	36.5#

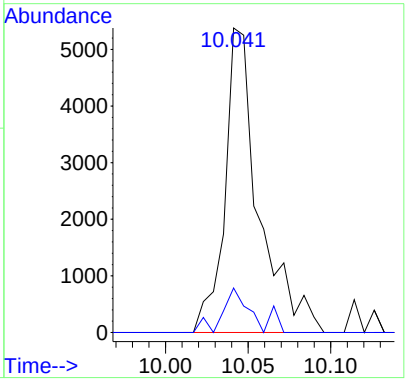


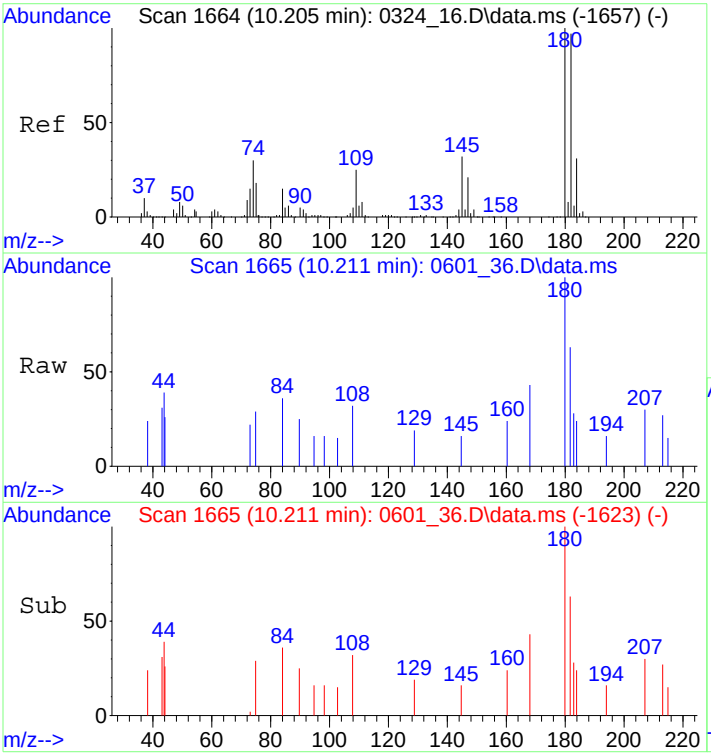


#92
Naphthalene
Concen: 0.4393207 ppb
RT: 10.041 min Scan# 1637
Delta R.T. -0.006 min
Lab File: 0601_36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion:128 Resp: 7726

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.3	12.5

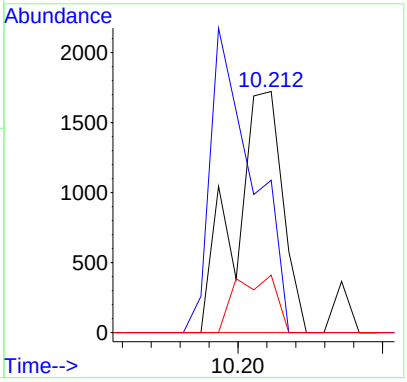


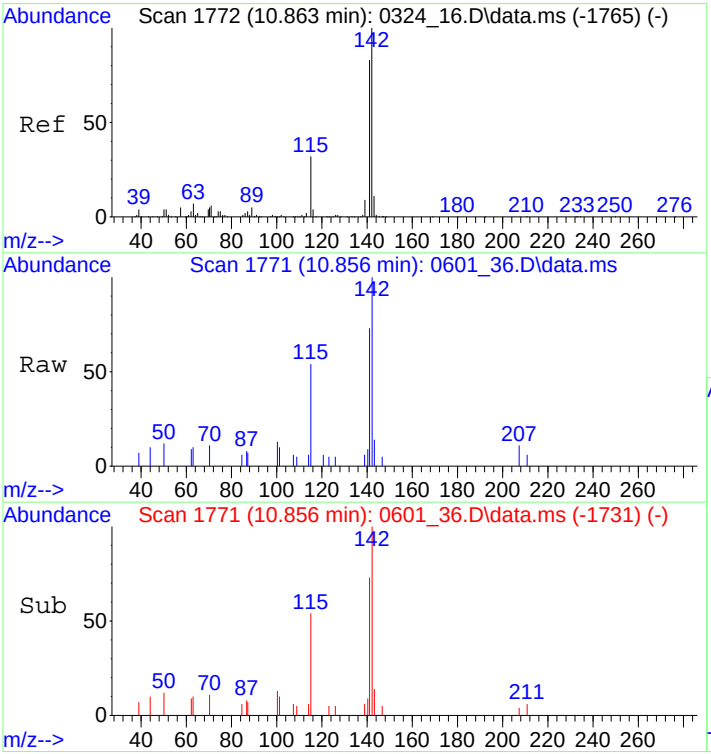


#93
1,2,3-Trichlorobenzene
Concen: 0.3320522 ppb
RT: 10.211 min Scan# 1665
Delta R.T. 0.006 min
Lab File: 0601 36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion:180 Resp: 1980

Ion	Ratio	Lower	Upper
180	100		
182	112.3	75.8	113.8
184	0.0	24.2	36.4#

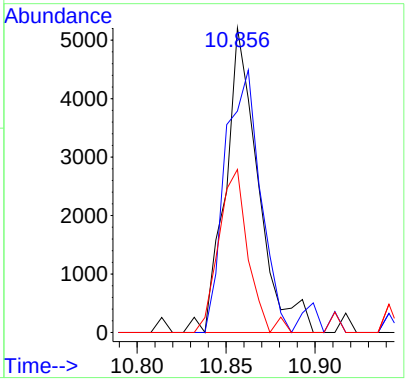


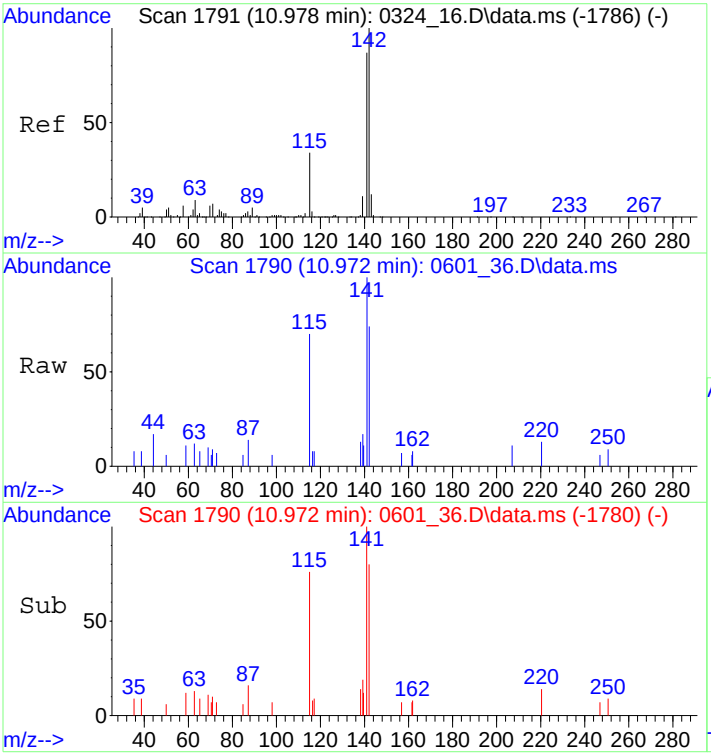


#94
1-Methylnaphthalene
Concen: 0.7763821 ppb
RT: 10.856 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 0601_36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion:142 Resp: 6691

Ion	Ratio	Lower	Upper
142	100		
141	92.8	70.4	105.6
115	48.1	27.3	40.9#

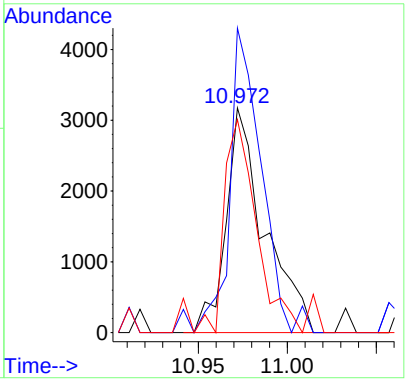




#95
2-Methylnaphthalene
Concen: 0.6716445 ppb
RT: 10.972 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 0601 36.D
Acq: 1 Jun 2015 11:50 pm

Tgt Ion:142 Resp: 4771

Ion	Ratio	Lower	Upper
142	100		
141	113.3	73.8	110.8#
115	79.4	30.4	45.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 37.D
Acq On : 2 Jun 2015 12:10 am
Operator : 621
Sample : LCSD 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:16 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	442849	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	702715	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	117903	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	319624	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	442849	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	702715	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	117903	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	319624	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	228342	42.4649897	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.16%			
46) a,a,a-Trifluorotoluene	5.034	146	391724	42.0988554	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.25%			
50) TOLUENE-D8	5.497	98	880826	44.3374553	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.84%			
68) 4-BROMOFLUOROBENZENE	7.377	95	347236	45.9811746	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 114.95%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	25989	25.6150400	ppb	89
4) DICHLORODIFLUOROMETHANE	1.707	85	147704	26.0345264	ppb	97
5) CHLOROMETHANE	1.877	50	205827	28.6239284	ppb	97
6) VINYL CHLORIDE	1.950	62	193615	29.2045162	ppb	98
7) 1,3-BUTADIENE	1.962	39	170971	33.9026493	ppb	91
8) BROMOMETHANE	2.206	94	108078	30.1787984	ppb	99
9) CHLOROETHANE	2.297	66	35678	38.5078494	ppb	84
10) TRICHLOROFLUOROMETHANE	2.400	101	227346	29.5431564	ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	307520	30.3945352	ppb	99
12) ETHYL ETHER	2.595	59	132382	29.3672129	ppb	96
13) ACROLEIN	2.948	56	141543	143.6759879	ppb	99
14) 1,1-DICHLOROETHENE	2.741	61	254428	31.2466026	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	137307	30.3115561	ppb	95
16) ACETONE	3.118	43	471803	140.5611844	ppb	92
17) IODOMETHANE	2.844	142	827441	141.9108715	ppb	99
18) CARBON DISULFIDE	2.777	76	478621	28.2790337	ppb	100
19) METHYLENE CHLORIDE	3.094	84	146206	27.5790642	ppb	97
20) ACRYLONITRILE	3.574	53	211741	98.4889828	ppb	97
21) n-Hexane	3.222	56	140273	25.7864412	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.191	96	139581	28.0783162	ppb	94
23) METHYL TERT-BUTYL ETHER	3.234	73	405603	26.0078284	ppb	90
24) 1,1-DICHLOROETHANE	3.550	63	241435	24.9613318	ppb	100
25) VINYL ACETATE	3.653	43	1238465	134.5358594	ppb	99
26) DI-ISOPROPYL ETHER	3.434	45	426604	21.9495179	ppb	100
27) 2,2-Dichloropropane	3.915	77	222590	25.6966136	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.854	96	122246	21.5057399	ppb	97
29) 2-BUTANONE (MEK)	4.158	72	105644	123.7938162	ppb	83
30) BROMOCHLOROMETHANE	3.970	130	71160	23.0812049	ppb	98
31) TETRAHYDROFURAN	4.091	42	36861	18.7728906	ppb #	86
32) CHLOROFORM	3.994	83	234084	24.8657539	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.128	97	205787	26.7863784	ppb	98
35) CARBON TETRACHLORIDE	4.091	117	193186	27.9454295	ppb	93
36) 1,1-Dichloropropene	4.189	75	190657	25.8304770	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 37.D
Acq On : 2 Jun 2015 12:10 am
Operator : 621
Sample : LCSD 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:16 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	542149	23.3406485 ppb		100
38)	HEPTANE	4.274	43	223989	21.2888505 ppb	#	62
39)	BENZENE	4.335	78	464299	22.6478879 ppb		98
40)	1,2-DICHLOROETHANE	4.450	62	201626	27.6258886 ppb	#	94
42)	TRICHLOROETHENE	4.663	130	117204	25.7168437 ppb		95
43)	1,2-DICHLOROPROPANE	4.980	62	89902	24.4103033 ppb		93
44)	DIBROMOMETHANE	4.925	93	75425	26.0101797 ppb		99
45)	BROMODICHLOROMETHANE	4.998	83	190615	27.5209634 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.314	63	17861	135.5166907 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	221965	26.4045460 ppb	#	99
49)	4-METHYL-2-PENTANONE (...	5.740	58	258361	120.5099574 ppb		96
51)	TOLUENE	5.527	91	498362	24.9309262 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	42935	23.9277034 ppb		96
54)	1,1,2-TRICHLOROETHANE	5.892	97	101347	23.7583728 ppb		99
55)	TETRACHLOROETHENE	5.783	164	91115	26.4781542 ppb		98
56)	1,3-Dichloropropane	6.081	76	189704	25.4993796 ppb		99
57)	2-HEXANONE	6.282	58	278078	123.7619114 ppb		98
58)	CHLORODIBROMOMETHANE	6.020	129	121039	27.6036147 ppb		96
59)	1,2-DIBROMOETHANE	6.196	107	109301	26.0572221 ppb		97
60)	CHLOROBENZENE	6.537	112	314600	26.0817621 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.567	133	108512	27.0582730 ppb	#	100
62)	ETHYLBENZENE	6.531	106	175131	26.3811833 ppb		95
63)	M&P-XYLENE	6.628	106	421570	50.7554939 ppb		93
64)	O-XYLENE	6.933	106	217774	27.2001049 ppb		99
65)	STYRENE	6.969	104	330803	25.6204301 ppb		93
66)	Bromoform	7.018	173	75308	28.0693808 ppb		97
67)	Isopropylbenzene	7.152	105	578194	26.7531386 ppb		97
69)	Bromobenzene	7.468	77	263113	26.4997455 ppb		93
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	137683	23.8194787 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.626	110	38360	25.0551149 ppb		85
72)	TRANS-1,4-DICHLORO-2-B...	7.638	53	46266	25.4557866 ppb		93
73)	n-Propylbenzene	7.456	91	670343	26.1615777 ppb		99
74)	4-ETHYLTOLUENE	7.529	105	560635	26.8548196 ppb		97
75)	2-Chlorotoluene	7.596	126	107842	23.1148062 ppb	#	77
76)	4-Chlorotoluene	7.717	91	420065	25.8746878 ppb		97
77)	1,3,5-Trimethylbenzene	7.590	105	458376	25.5980296 ppb		98
78)	tert-Butylbenzene	7.839	119	416593	27.7914645 ppb		95
79)	1,2,4-Trimethylbenzene	7.894	105	496032	26.7332130 ppb		100
80)	sec-Butylbenzene	7.979	105	650579	27.3797599 ppb		96
81)	1,3-DICHLOROBENZENE	8.174	146	246641	25.3052876 ppb		97
82)	p-Isopropyltoluene	8.076	119	500849	25.7160859 ppb		98
83)	DICYCLOPENTADIENE	8.088	66	588377	27.3483637 ppb		99
85)	1,4-DICHLOROBENZENE	8.240	146	236723	23.8339201 ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.234	105	468876	25.9829063 ppb		97
87)	1,2-DICHLOROBENZENE	8.575	146	227587	24.9480989 ppb		97
88)	n-Butylbenzene	8.411	91	498297	25.7310423 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.214	157	28240	23.9603278 ppb		95
90)	1,2,4-Trichlorobenzene	9.767	180	142402	23.3354213 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	87076	24.6483859 ppb		97
92)	Naphthalene	10.041	128	349396	20.6445658 ppb		99
93)	1,2,3-Trichlorobenzene	10.199	180	123765	21.5675071 ppb		98
94)	1-Methylnaphthalene	10.856	142	109091	13.1532864 ppb		97
95)	2-Methylnaphthalene	10.978	142	88905	13.0052026 ppb		96
97)	ETHANOL	2.717	45	954	11.8226706 ppb	#	30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 37.D
Acq On : 2 Jun 2015 12:10 am
Operator : 621
Sample : LCSD 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:16 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

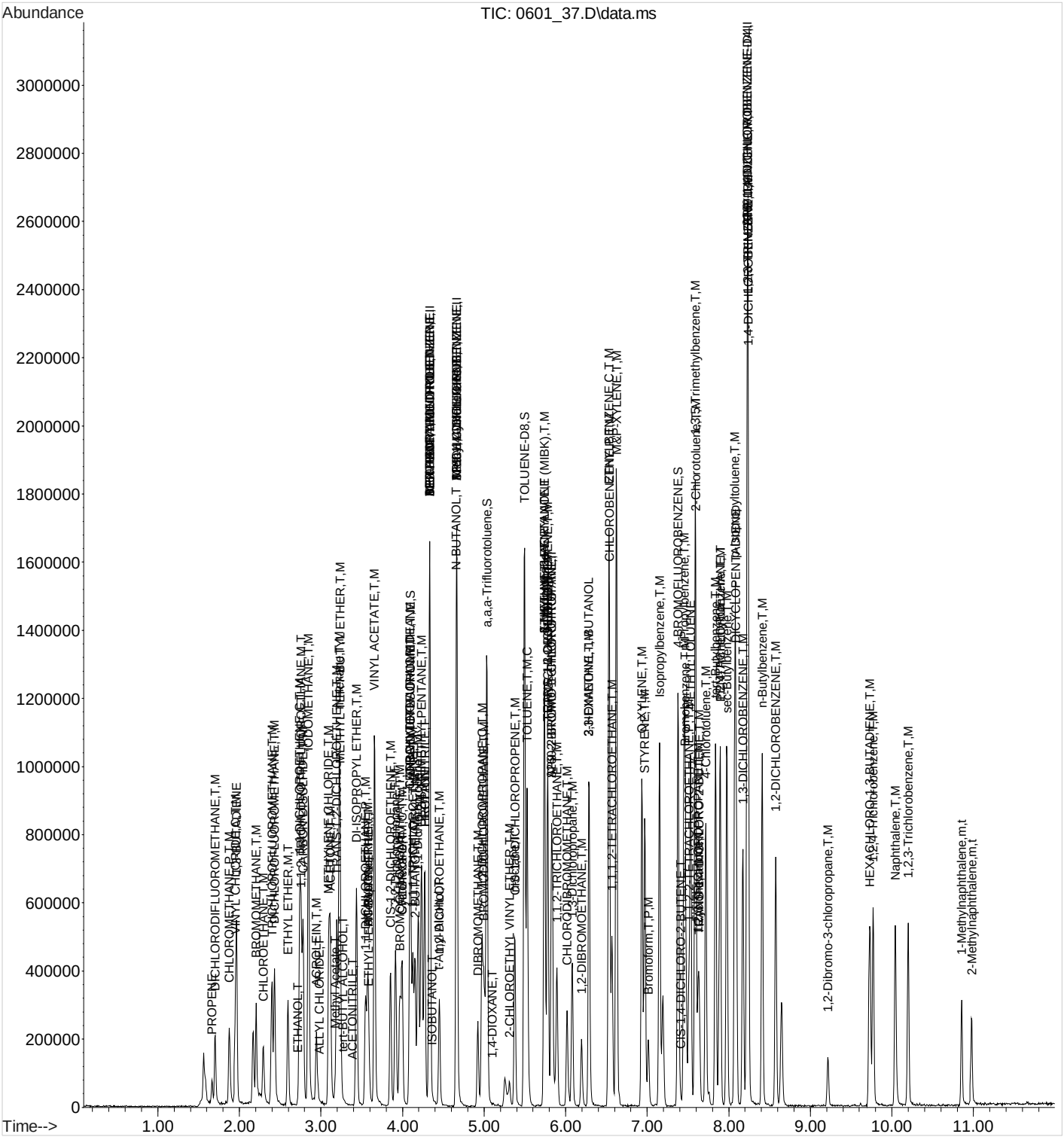
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Methyl Acetate	3.173	43	42152	8.8939369	ppb #	92
101) ACETONITRILE	3.386	41	657	0.8745505	ppb #	33
102) ALLYL CHLORIDE	2.978	76	838	0.3016207	ppb #	1
103) tert-BUTYL ALCOHOL	3.270	59	737	0.7362475	ppb #	62
104) chloroprene	3.574	53	211741	23.5286999	ppb #	28
105) ETHYL TERT-BUTYL ETHER	3.587	59	39075	2.1961673	ppb #	41
106) PROPIONITRILE	4.274	54	3339	4.4544189	ppb #	1
108) METHACRYLONITRILE	4.335	67	1314	0.6274576	ppb #	1
109) Cyclohexane	3.994	84	6523	0.7182613	ppb #	13
111) ISOBUTANOL	4.365	43	2624	7.4184958	ppb #	75
112) t-Amyl Alcohol	4.444	59	1524	2.7383959	ppb #	17
113) TERT-AMYL METHYL ETHER	4.335	73	8164	0.5483090	ppb #	1
115) N-BUTANOL	4.657	56	18294	108.0073692	ppb #	23
116) Methyl Cyclohexane	4.663	83	14336	0.4416133	ppb #	44
117) 2-nitropropane	5.740	43	717053	374.5241353	ppb #	43
119) 1,4-DIOXANE	5.101	88	1011	17.6503375	ppb #	1
120) n-octane	5.375	85	2763	0.5274487	ppb #	25
121) 3,3-DIMETHYL-1-BUTANOL	6.282	57	107140	204.5117376	ppb #	46
123) ETHYL METHACRYLATE	5.740	69	5986	0.9981435	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.413	53	2524	1.4926386	ppb #	12
125) Cyclohexanone	7.632	55	967	0.8500047	ppb #	1
126) PENTACHLOROETHANE	7.894	117	16476	5.9636571	ppb #	17

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 37.D
Acq On : 2 Jun 2015 12:10 am
Operator : 621
Sample : LCSD 1x WG791367
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:16 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 38.D
Acq On : 2 Jun 2015 12:29 am
Operator : 621
Sample : MS 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:21 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.335	168	428041	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.663	114	707786	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.831	79	124369	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.228	152	313893	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.335	168	428041	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.663	114	707786	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.831	79	124369	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.228	152	313893	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.098	111	234358	45.0915645	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121			Recovery = 112.73%			
46)	a,a,a-Trifluorotoluene	5.034	146	394936	42.1399569	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114			Recovery = 105.35%			
50)	TOLUENE-D8	5.497	98	868674	43.4124921	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111			Recovery = 108.53%			
68)	4-BROMOFLUOROBENZENE	7.383	95	375094	47.0877725	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126			Recovery = 117.72%			
Target Compounds								Qvalue
3)	PROPENE	1.670	41	11634	11.4288507	ppb		92
4)	DICHLORODIFLUOROMETHANE	1.707	85	151191	27.5710727	ppb		100
5)	CHLOROMETHANE	1.877	50	165010	23.7414618	ppb		99
6)	VINYL CHLORIDE	1.950	62	159145	24.8355804	ppb		97
7)	1,3-BUTADIENE	1.962	39	62140	12.7483134	ppb		95
8)	BROMOMETHANE	2.206	94	91376	26.3977605	ppb		96
9)	CHLOROETHANE	2.297	66	29328	32.1489736	ppb		98
10)	TRICHLOROFLUOROMETHANE	2.400	101	225231	30.2808484	ppb		100
11)	DICHLOROFLUOROMETHANE	2.431	67	290952	29.7518370	ppb		98
12)	ETHYL ETHER	2.595	59	124255	28.5179278	ppb		92
13)	ACROLEIN	2.948	56	78861	82.8186933	ppb		98
14)	1,1-DICHLOROETHENE	2.741	61	200753	25.5076379	ppb		97
15)	1,1,2-TRICHLOROTRIFLUO...	2.759	101	118152	26.9852801	ppb		99
16)	ACETONE	3.118	43	217491	67.0372667	ppb	#	87
17)	IODOMETHANE	2.844	142	727075	129.0114156	ppb		97
18)	CARBON DISULFIDE	2.777	76	317502	19.4083931	ppb		97
19)	METHYLENE CHLORIDE	3.094	84	112707	21.9955851	ppb		96
20)	ACRYLONITRILE	3.574	53	210855	101.4698210	ppb		94
21)	n-Hexane	3.222	56	104736	19.9197373	ppb		89
22)	TRANS-1,2-DICHLOROETHENE	3.191	96	110111	22.9163666	ppb		94
23)	METHYL TERT-BUTYL ETHER	3.234	73	402403	26.6952775	ppb		89
24)	1,1-DICHLOROETHANE	3.550	63	244065	26.1061799	ppb		98
26)	DI-ISOPROPYL ETHER	3.434	45	440482	23.4476070	ppb		98
27)	2,2-Dichloropropane	3.915	77	233071	27.8374072	ppb		100
28)	CIS-1,2-DICHLOROETHENE	3.854	96	128795	23.4416962	ppb		97
29)	2-BUTANONE (MEK)	4.152	72	79668	96.5846983	ppb		99
30)	BROMOCHLOROMETHANE	3.970	130	71306	23.9286892	ppb		97
31)	TETRAHYDROFURAN	4.091	42	36623	19.2969314	ppb	#	84
32)	CHLOROFORM	3.994	83	238846	26.2493269	ppb		99
34)	1,1,1-TRICHLOROETHANE	4.128	97	202780	27.3080997	ppb		99
35)	CARBON TETRACHLORIDE	4.091	117	169141	25.3136244	ppb	#	72
36)	1,1-Dichloropropene	4.189	75	187824	26.3269807	ppb		93
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	495252	22.0592526	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 38.D
Acq On : 2 Jun 2015 12:29 am
Operator : 621
Sample : MS 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:21 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	HEPTANE	4.268	43	188551	18.5406373	ppb		93
39)	BENZENE	4.335	78	453253	22.8739383	ppb		94
40)	1,2-DICHLOROETHANE	4.450	62	209779	29.7373340	ppb	#	95
42)	TRICHLOROETHENE	4.663	130	115697	25.2042968	ppb		95
43)	1,2-DICHLOROPROPANE	4.974	62	90598	24.4230382	ppb		96
44)	DIBROMOMETHANE	4.925	93	74615	25.5465015	ppb		97
45)	BROMODICHLOROMETHANE	4.998	83	189489	27.1623799	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.387	63	1349	10.1619306	ppb	#	48
48)	CIS-1,3-DICHLOROPROPENE	5.375	75	223861	26.4392968	ppb	#	97
49)	4-METHYL-2-PENTANONE (...	5.740	58	268791	124.4766681	ppb		97
51)	TOLUENE	5.527	91	495142	24.5923774	ppb		96
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	41502	22.9633810	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.892	97	103667	23.0387567	ppb		98
55)	TETRACHLOROETHENE	5.783	164	85555	23.5698021	ppb		98
56)	1,3-Dichloropropane	6.081	76	198288	25.2674998	ppb		98
57)	2-HEXANONE	6.288	58	262919	110.9315451	ppb		99
58)	CHLORODIBROMOMETHANE	6.020	129	121705	26.3124788	ppb		99
59)	1,2-DIBROMOETHANE	6.196	107	109959	24.8512063	ppb		97
60)	CHLOROBENZENE	6.537	112	314450	24.7139704	ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.568	133	109622	25.9138978	ppb	#	98
62)	ETHYLBENZENE	6.531	106	164026	23.4237623	ppb		80
63)	M&P-XYLENE	6.622	106	429989	49.0776116	ppb		97
64)	O-XYLENE	6.939	106	209137	24.7632783	ppb		93
66)	Bromoform	7.018	173	76722	27.1096773	ppb		99
67)	Isopropylbenzene	7.152	105	621831	27.2763491	ppb		99
69)	Bromobenzene	7.468	77	303885	29.0149197	ppb		91
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	169762	27.8423013	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.626	110	43918	27.1939984	ppb	#	80
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	50842	26.5191688	ppb		97
73)	n-Propylbenzene	7.456	91	749759	27.7396677	ppb		98
74)	4-ETHYLTOLUENE	7.529	105	626024	28.4279621	ppb		99
75)	2-Chlorotoluene	7.596	126	135136	27.4590871	ppb		95
76)	4-Chlorotoluene	7.717	91	448462	26.1876775	ppb		96
77)	1,3,5-Trimethylbenzene	7.590	105	507169	26.8503579	ppb		99
78)	tert-Butylbenzene	7.839	119	457830	28.9545237	ppb		96
79)	1,2,4-Trimethylbenzene	7.894	105	529052	27.0304041	ppb		99
80)	sec-Butylbenzene	7.973	105	687409	27.4256874	ppb		98
81)	1,3-DICHLOROBENZENE	8.174	146	253994	24.7048474	ppb		98
82)	p-Isopropyltoluene	8.076	119	548258	26.6867537	ppb		95
83)	DICYCLOPENTADIENE	8.088	66	11890	0.5239263	ppb	#	92
85)	1,4-DICHLOROBENZENE	8.241	146	231623	23.7462184	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.241	105	475827	26.8495219	ppb		99
87)	1,2-DICHLOROBENZENE	8.575	146	230786	25.7606737	ppb		98
88)	n-Butylbenzene	8.411	91	508896	26.7581383	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.214	157	25454	21.9908418	ppb	#	84
90)	1,2,4-Trichlorobenzene	9.767	180	150859	25.1726266	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	96575	27.8363625	ppb		96
92)	Naphthalene	10.041	128	361955	21.7771055	ppb		100
93)	1,2,3-Trichlorobenzene	10.199	180	138079	24.5012075	ppb		95
94)	1-Methylnaphthalene	10.850	142	135230	16.6026018	ppb		95
95)	2-Methylnaphthalene	10.972	142	119002	17.7256818	ppb		90
97)	ETHANOL	2.711	45	1157	14.8344303	ppb	#	40
99)	2-PROPANOL	3.015	45	513	Below Cal	#		59
100)	Methyl Acetate	3.179	43	31013	6.7700198	ppb	#	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 38.D
Acq On : 2 Jun 2015 12:29 am
Operator : 621
Sample : MS 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:21 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

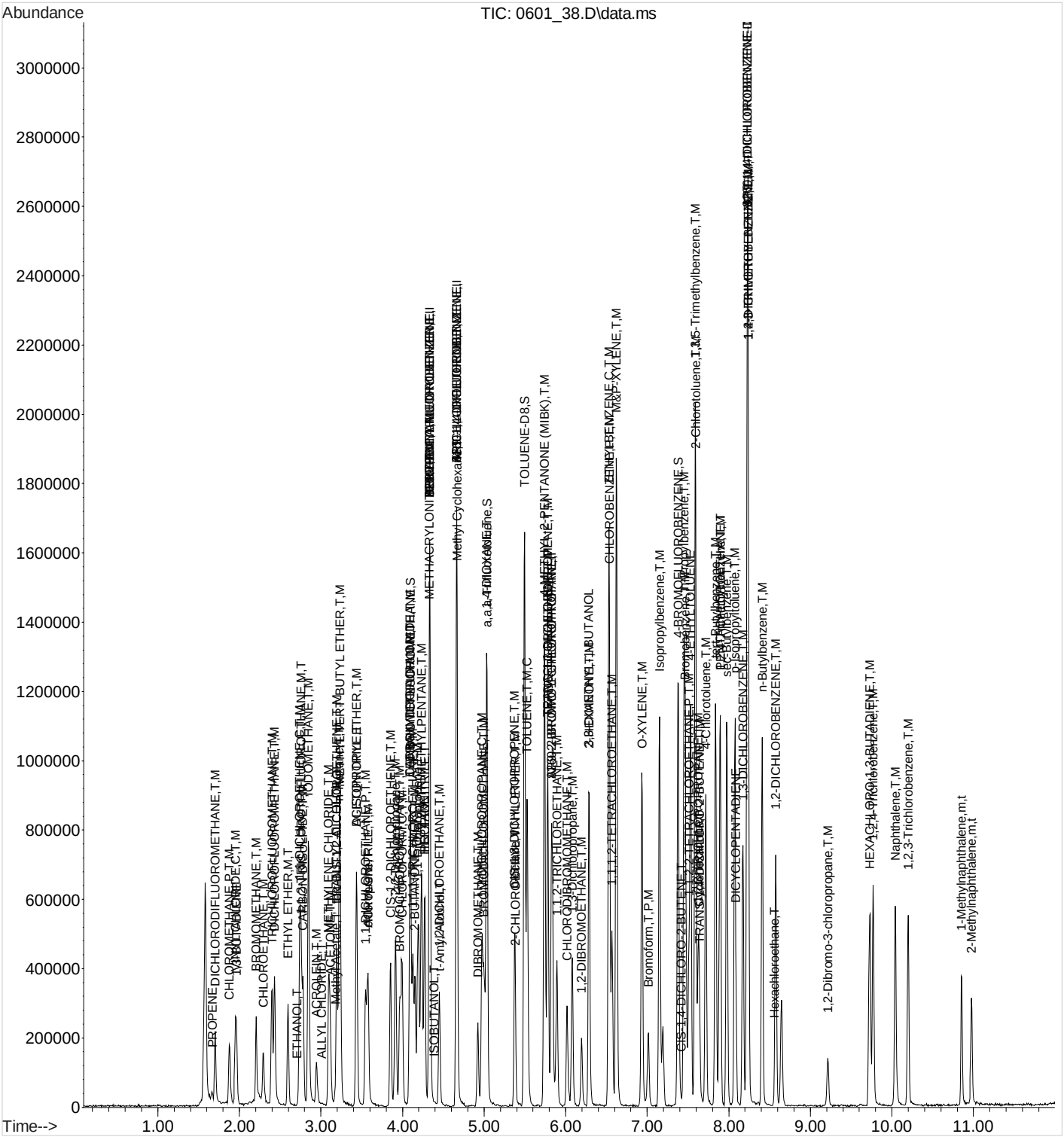
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	ACETONITRILE	3.434	41	85389	117.5957837	ppb #	37
102)	ALLYL CHLORIDE	3.009	76	941	0.3504104	ppb #	1
103)	tert-BUTYL ALCOHOL	3.191	59	10790	11.1518795	ppb #	62
104)	chloroprene	3.574	53	210855	24.2408126	ppb #	28
106)	PROPIONITRILE	4.274	54	2207	3.0461218	ppb #	1
108)	METHACRYLONITRILE	4.329	67	827	0.4085685	ppb #	1
111)	ISOBUTANOL	4.390	43	594	1.7374358	ppb #	75
112)	t-Amyl Alcohol	4.457	59	4562	8.4808005	ppb #	42
113)	TERT-AMYL METHYL ETHER	4.335	73	9830	0.6830401	ppb #	20
116)	Methyl Cyclohexane	4.669	83	14228	0.4196560	ppb #	43
119)	1,4-DIOXANE	5.028	88	8014	138.9083823	ppb #	27
120)	n-octane	5.381	85	3158	0.5985338	ppb #	21
121)	3,3-DIMETHYL-1-BUTANOL	6.282	57	104952	198.8999031	ppb #	46
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	1788	1.0024104	ppb #	12
125)	Cyclohexanone	7.638	55	759	0.6324837	ppb #	1
126)	PENTACHLOROETHANE	7.894	117	16528	5.6714472	ppb #	19
127)	Hexachloroethane	8.557	117	1186	0.3431269	ppb #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 38.D
Acq On : 2 Jun 2015 12:29 am
Operator : 621
Sample : MS 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:21 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 39.D
Acq On : 2 Jun 2015 12:48 am
Operator : 621
Sample : MSD 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 39 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	433500	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	700131	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	125319	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	364515	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	433500	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	700131	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	125319	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	364515	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	232814	44.2304015 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.58%		
46) a,a,a-Trifluorotoluene	5.028	146	385870	41.6227757 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.06%		
50) TOLUENE-D8	5.497	98	874864	44.1998810 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.50%		
68) 4-BROMOFLUOROBENZENE	7.377	95	346211	43.1324486 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 107.83%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	14147	13.8849282 ppb	90
4) DICHLORODIFLUOROMETHANE	1.707	85	153302	27.6039869 ppb	94
5) CHLOROMETHANE	1.877	50	154794	21.9911318 ppb	98
6) VINYL CHLORIDE	1.944	62	171285	26.3934957 ppb	96
7) 1,3-BUTADIENE	1.962	39	72909	14.7692653 ppb	94
8) BROMOMETHANE	2.206	94	91806	26.1879966 ppb	95
9) CHLOROETHANE	2.291	66	30305	32.8831037 ppb	95
10) TRICHLOROFLUOROMETHANE	2.394	101	230742	30.6311142 ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	276352	27.9030270 ppb	99
12) ETHYL ETHER	2.595	59	105998	24.0213843 ppb	93
13) ACROLEIN	2.942	56	80804	83.7905850 ppb	99
14) 1,1-DICHLOROETHENE	2.741	61	213201	26.7481472 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	126118	28.4419386 ppb	97
16) ACETONE	3.118	43	242231	73.7226603 ppb	90
17) IODOMETHANE	2.844	142	738192	129.3345425 ppb	95
18) CARBON DISULFIDE	2.777	76	331647	20.0177589 ppb	98
19) METHYLENE CHLORIDE	3.100	84	126464	24.3695669 ppb	96
20) ACRYLONITRILE	3.574	53	241244	114.6319762 ppb	98
21) n-Hexane	3.222	56	112595	21.1447715 ppb	82
22) TRANS-1,2-DICHLOROETHENE	3.191	96	115343	23.7029590 ppb	97
23) METHYL TERT-BUTYL ETHER	3.234	73	435133	28.5030621 ppb	87
24) 1,1-DICHLOROETHANE	3.550	63	250499	26.4569690 ppb	99
26) DI-ISOPROPYL ETHER	3.435	45	454377	23.8826750 ppb	100
27) 2,2-Dichloropropane	3.915	77	241820	28.5186542 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.854	96	132083	23.7374040 ppb	99
29) 2-BUTANONE (MEK)	4.152	72	81396	97.4369642 ppb	82
30) BROMOCHLOROMETHANE	3.964	130	73636	24.3994082 ppb	96
31) TETRAHYDROFURAN	4.092	42	43924	22.8524352 ppb #	86
32) CHLOROFORM	3.988	83	248128	26.9260248 ppb	96
34) 1,1,1-TRICHLOROETHANE	4.128	97	223560	29.7273866 ppb	96
35) CARBON TETRACHLORIDE	4.092	117	199520	29.4841181 ppb	90
36) 1,1-Dichloropropene	4.189	75	195881	27.1105638 ppb	96
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	515360	22.6658250 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 39.D
Acq On : 2 Jun 2015 12:48 am
Operator : 621
Sample : MSD 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 39 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	HEPTANE	4.268	43	204527	19.8583305	ppb		92
39)	BENZENE	4.335	78	478533	23.8456090	ppb		98
40)	1,2-DICHLOROETHANE	4.450	62	213825	29.9291766	ppb	#	95
42)	TRICHLOROETHENE	4.663	130	121121	26.6743961	ppb		98
43)	1,2-DICHLOROPROPANE	4.974	62	96700	26.3530091	ppb		98
44)	DIBROMOMETHANE	4.919	93	82480	28.5480601	ppb		95
45)	BROMODICHLOROMETHANE	4.998	83	201342	29.1770147	ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.381	63	2115	16.1063564	ppb	#	48
48)	CIS-1,3-DICHLOROPROPENE	5.375	75	236012	28.1791706	ppb	#	97
49)	4-METHYL-2-PENTANONE (...	5.740	58	316674	148.2546419	ppb		97
51)	TOLUENE	5.527	91	517333	25.9754806	ppb		96
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	42552	23.8017804	ppb		96
54)	1,1,2-TRICHLOROETHANE	5.892	97	115321	25.4344371	ppb		95
55)	TETRACHLOROETHENE	5.783	164	92472	25.2822670	ppb		98
56)	1,3-Dichloropropane	6.075	76	207136	26.1948940	ppb		99
57)	2-HEXANONE	6.282	58	299370	125.3535360	ppb		98
58)	CHLORODIBROMOMETHANE	6.020	129	132987	28.5336778	ppb		98
59)	1,2-DIBROMOETHANE	6.196	107	117064	26.2564057	ppb		97
60)	CHLOROBENZENE	6.537	112	335466	26.1658384	ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.568	133	116048	27.2250008	ppb	#	98
62)	ETHYLBENZENE	6.531	106	177997	25.2262016	ppb		88
63)	M&P-XYLENE	6.622	106	430080	48.7158790	ppb		88
64)	O-XYLENE	6.933	106	219564	25.8008266	ppb		95
66)	Bromoform	7.018	173	84164	29.5138606	ppb		97
67)	Isopropylbenzene	7.152	105	608101	26.4718815	ppb		97
69)	Bromobenzene	7.468	77	275356	26.0916699	ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.511	83	161165	26.2319514	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.626	110	42811	26.3075926	ppb		89
72)	TRANS-1,4-DICHLORO-2-B...	7.638	53	49624	25.6876438	ppb		97
73)	n-Propylbenzene	7.456	91	732306	26.8885498	ppb		97
74)	4-ETHYLTOLUENE	7.529	105	582170	26.2361309	ppb		99
75)	2-Chlorotoluene	7.590	126	126780	25.5658952	ppb	#	97
76)	4-Chlorotoluene	7.717	91	446503	25.8756303	ppb		96
77)	1,3,5-Trimethylbenzene	7.590	105	492192	25.8599185	ppb		96
78)	tert-Butylbenzene	7.839	119	465302	29.2039987	ppb		95
79)	1,2,4-Trimethylbenzene	7.894	105	558662	28.3268662	ppb		99
80)	sec-Butylbenzene	7.979	105	740240	29.3096127	ppb		97
81)	1,3-DICHLOROBENZENE	8.174	146	297512	28.7182801	ppb		94
82)	p-Isopropyltoluene	8.076	119	604767	29.2142053	ppb		96
83)	DICYCLOPENTADIENE	8.070	66	9190	0.4018825	ppb	#	69
85)	1,4-DICHLOROBENZENE	8.241	146	289232	25.5343814	ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.241	105	570595	27.7256454	ppb		99
87)	1,2-DICHLOROBENZENE	8.575	146	288366	27.7177540	ppb		96
88)	n-Butylbenzene	8.411	91	608348	27.5451517	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.214	157	36796	27.3749069	ppb		87
90)	1,2,4-Trichlorobenzene	9.768	180	176497	25.3606782	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.725	225	109682	27.2238381	ppb		96
92)	Naphthalene	10.041	128	486237	25.1918351	ppb		99
93)	1,2,3-Trichlorobenzene	10.199	180	158640	24.2403442	ppb		96
94)	1-Methylnaphthalene	10.856	142	173854	18.3803602	ppb		92
95)	2-Methylnaphthalene	10.972	142	131327	16.8449194	ppb		97
97)	ETHANOL	2.674	45	1159	14.6729426	ppb	#	24
100)	Methyl Acetate	3.179	43	29944	6.4543459	ppb	#	91
101)	ACETONITRILE	3.374	41	1474	2.0043962	ppb	#	33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 39.D
Acq On : 2 Jun 2015 12:48 am
Operator : 621
Sample : MSD 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 39 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

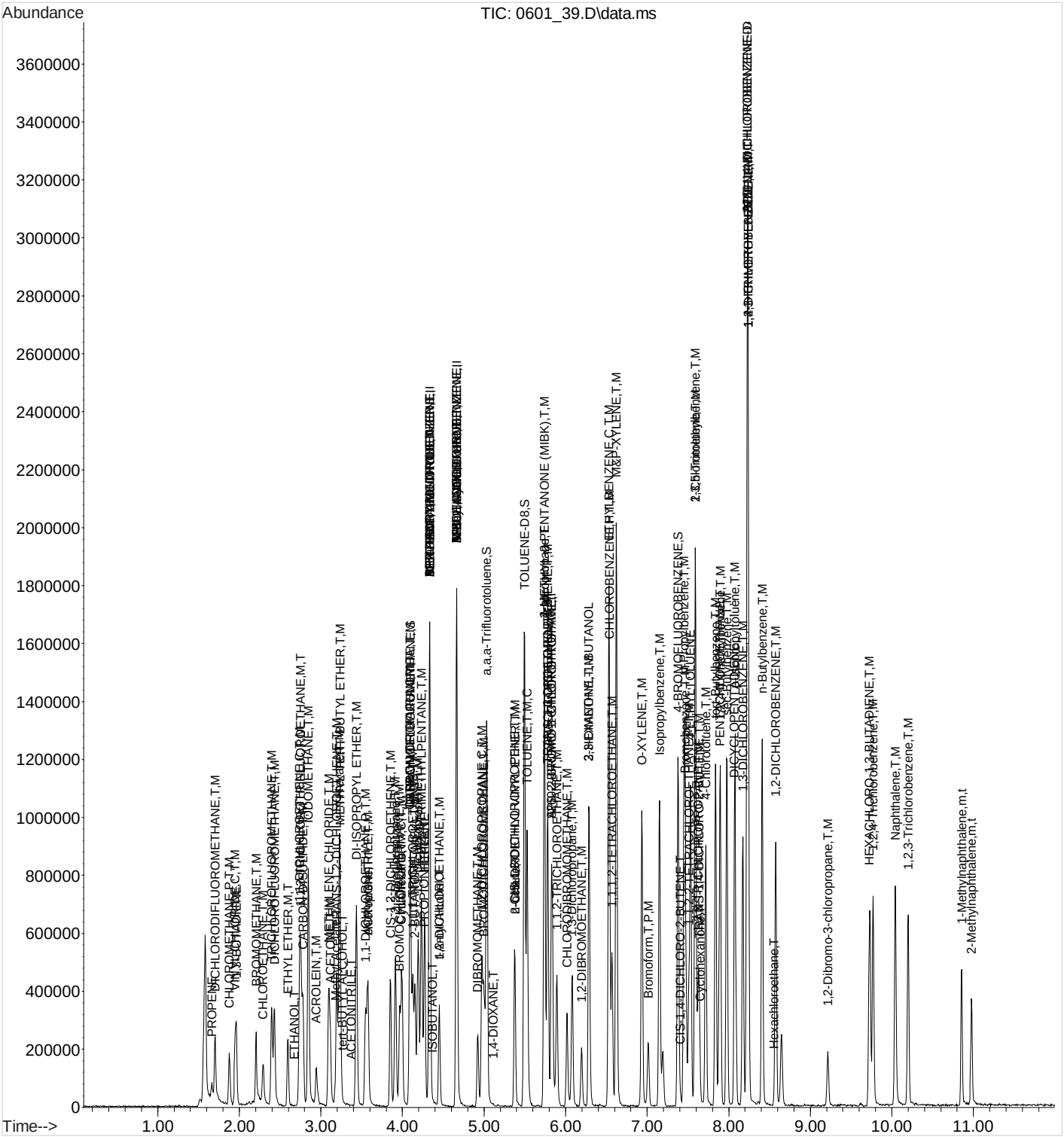
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) tert-BUTYL ALCOHOL	3.264	59	2204	2.2492332	ppb #	62
104) chloroprene	3.574	53	241244	27.3852089	ppb #	28
106) PROPIONITRILE	4.262	54	2894	3.9440256	ppb #	1
108) METHACRYLONITRILE	4.335	67	766	0.3736667	ppb #	1
109) Cyclohexane	3.988	84	8751	0.9843722	ppb #	13
111) ISOBUTANOL	4.371	43	1005	2.9025830	ppb #	75
112) t-Amyl Alcohol	4.450	59	3102	5.6940284	ppb	92
113) TERT-AMYL METHYL ETHER	4.335	73	8519	0.5844907	ppb #	1
115) N-BUTANOL	4.663	56	18965	112.3821863	ppb #	20
116) Methyl Cyclohexane	4.663	83	13802	0.3910901	ppb #	54
117) 2-nitropropane	5.740	43	837878	439.2474578	ppb #	43
119) 1,4-DIOXANE	5.114	88	1635	28.6496640	ppb #	24
120) n-octane	5.381	85	2703	0.5178992	ppb #	34
121) 3,3-DIMETHYL-1-BUTANOL	6.282	57	116923	224.0095136	ppb #	47
124) CIS-1,4-DICHLORO-2-BUTENE	7.407	53	1935	1.0765996	ppb #	28
125) Cyclohexanone	7.650	55	782	0.6467099	ppb #	1
126) PENTACHLOROETHANE	7.888	117	21023	7.1591837	ppb #	19
127) Hexachloroethane	8.551	117	1265	0.3632083	ppb #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 39.D
Acq On : 2 Jun 2015 12:48 am
Operator : 621
Sample : MSD 1x WG791367 L767115-07
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 39 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 40.D
Acq On : 2 Jun 2015 1:08 am
Operator : 621
Sample : MS 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:31 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.335	168	422715	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	708114	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	119699	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	309689	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	422715	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	708114	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	119699	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	309689	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.098	111	224388	43.7172525	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.29%				
46) a,a,a-Trifluorotoluene	5.034	146	374798	39.9726937	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.93%				
50) TOLUENE-D8	5.497	98	855079	42.7132799	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.78%				
68) 4-BROMOFLUOROBENZENE	7.377	95	344814	44.9753488	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.44%				
Target Compounds							Qvalue
3) PROPENE	1.664	41	25264	26.1013801	ppb		95
4) DICHLORODIFLUOROMETHANE	1.707	85	145428	26.8542771	ppb		98
5) CHLOROMETHANE	1.877	50	140360	20.4492913	ppb		97
6) VINYL CHLORIDE	1.950	62	146319	23.1216993	ppb		98
7) 1,3-BUTADIENE	1.962	39	118156	24.5456747	ppb		96
8) BROMOMETHANE	2.206	94	102700	30.0429861	ppb		98
9) CHLOROETHANE	2.291	66	33473	37.7800314	ppb		92
10) TRICHLOROFLUOROMETHANE	2.394	101	231337	31.4936273	ppb		98
11) DICHLOROFLUOROMETHANE	2.431	67	323194	33.4652012	ppb		99
12) ETHYL ETHER	2.595	59	110718	25.7311997	ppb		94
13) ACROLEIN	2.948	56	107294	114.0983178	ppb		96
14) 1,1-DICHLOROETHENE	2.741	61	216129	27.8073084	ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	122850	28.4117984	ppb		98
16) ACETONE	3.118	43	242026	75.5396107	ppb	#	86
17) IODOMETHANE	2.844	142	791076	142.1362485	ppb		99
18) CARBON DISULFIDE	2.777	76	341368	21.1302012	ppb		98
19) METHYLENE CHLORIDE	3.094	84	129443	25.5800218	ppb		98
20) ACRYLONITRILE	3.574	53	244089	118.9430059	ppb		95
21) n-Hexane	3.221	56	124663	24.0083828	ppb		99
22) TRANS-1,2-DICHLOROETHENE	3.191	96	120441	25.3820747	ppb		96
23) METHYL TERT-BUTYL ETHER	3.234	73	421510	28.3151472	ppb		89
24) 1,1-DICHLOROETHANE	3.550	63	267273	28.9488038	ppb		98
25) VINYL ACETATE	3.653	43	1590684	181.0282036	ppb		100
26) DI-ISOPROPYL ETHER	3.434	45	455225	24.5377183	ppb		95
27) 2,2-Dichloropropane	3.915	77	252074	30.4864115	ppb		97
28) CIS-1,2-DICHLOROETHENE	3.854	96	132555	24.4300218	ppb		98
29) 2-BUTANONE (MEK)	4.152	72	94952	116.5644828	ppb		91
30) BROMOCHLOROMETHANE	3.970	130	75521	25.6624595	ppb		99
31) TETRAHYDROFURAN	4.091	42	44963	23.9898386	ppb		96
32) CHLOROFORM	3.994	83	264631	29.4495476	ppb		98
34) 1,1,1-TRICHLOROETHANE	4.128	97	233256	31.8080391	ppb		95
35) CARBON TETRACHLORIDE	4.091	117	206137	31.2391422	ppb		89
36) 1,1-Dichloropropene	4.195	75	205779	29.2071198	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 40.D
Acq On : 2 Jun 2015 1:08 am
Operator : 621
Sample : MS 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:31 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	530203	23.9135718 ppb		98
38) HEPTANE	4.268	43	214953	21.4031177 ppb		95
39) BENZENE	4.335	78	490963	25.0891953 ppb		96
40) 1,2-DICHLOROETHANE	4.450	62	224787	32.2662818 ppb		97
42) TRICHLOROETHENE	4.663	130	120187	26.1703041 ppb		98
43) 1,2-DICHLOROPROPANE	4.974	62	95707	25.7883507 ppb		90
44) DIBROMOMETHANE	4.919	93	83792	28.6752117 ppb		99
45) BROMODICHLOROMETHANE	4.998	83	211516	30.3058052 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	508	3.8249589 ppb	#	48
48) CIS-1,3-DICHLOROPROPENE	5.375	75	241021	28.4528079 ppb	#	97
49) 4-METHYL-2-PENTANONE (...	5.740	58	315971	146.2578698 ppb		96
51) TOLUENE	5.527	91	534534	26.5365751 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.783	110	46505	25.7196611 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.892	97	120416	27.8050913 ppb		92
55) TETRACHLOROETHENE	5.783	164	94152	26.9501825 ppb		99
56) 1,3-Dichloropropane	6.081	76	214871	28.4488859 ppb		97
57) 2-HEXANONE	6.288	58	291789	127.9156335 ppb		91
58) CHLORODIBROMOMETHANE	6.020	129	139595	31.3577451 ppb		98
59) 1,2-DIBROMOETHANE	6.196	107	121626	28.5604297 ppb		99
60) CHLOROBENZENE	6.537	112	339740	27.7433708 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.567	133	119706	29.4017079 ppb	#	99
62) ETHYLBENZENE	6.531	106	191428	28.4034464 ppb		90
63) M&P-XYLENE	6.622	106	468768	55.5911491 ppb		94
64) O-XYLENE	6.932	106	228972	28.1696378 ppb		96
65) STYRENE	6.969	104	351464	26.8121819 ppb		91
66) Bromoform	7.018	173	85974	31.5640836 ppb		96
67) Isopropylbenzene	7.152	105	637315	29.0462206 ppb		98
69) Bromobenzene	7.468	77	286298	28.4022041 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.510	83	161967	27.6002365 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.626	110	46878	30.1592966 ppb		94
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	57431	31.1247076 ppb		92
73) n-Propylbenzene	7.456	91	756922	29.0972747 ppb		98
74) 4-ETHYLTOLUENE	7.529	105	596620	28.1497261 ppb		99
75) 2-Chlorotoluene	7.596	126	122785	25.9228036 ppb	#	81
76) 4-Chlorotoluene	7.717	91	455539	27.6387577 ppb		98
77) 1,3,5-Trimethylbenzene	7.590	105	501853	27.6054941 ppb		96
78) tert-Butylbenzene	7.839	119	436852	28.7056990 ppb		95
79) 1,2,4-Trimethylbenzene	7.894	105	515399	27.3602064 ppb		97
80) sec-Butylbenzene	7.973	105	677510	28.0853369 ppb		98
81) 1,3-DICHLOROBENZENE	8.174	146	269446	27.2302782 ppb		97
82) p-Isopropyltoluene	8.076	119	566546	28.6528329 ppb		100
83) DICYCLOPENTADIENE	8.088	66	634989	29.0720860 ppb		100
85) 1,4-DICHLOROBENZENE	8.240	146	263494	27.3803728 ppb		83
86) 1,2,3-TRIMETHYLBENZENE	8.240	105	507441	29.0221031 ppb		99
87) 1,2-DICHLOROBENZENE	8.575	146	256458	29.0148185 ppb		96
88) n-Butylbenzene	8.411	91	540614	28.8117738 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.214	157	35457	31.0487166 ppb		88
90) 1,2,4-Trichlorobenzene	9.767	180	184352	31.1789161 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.731	225	100219	29.2788276 ppb		95
92) Naphthalene	10.041	128	497302	30.3264540 ppb		99
93) 1,2,3-Trichlorobenzene	10.199	180	166420	29.9309997 ppb		98
94) 1-Methylnaphthalene	10.856	142	196583	24.4627296 ppb		93
95) 2-Methylnaphthalene	10.972	142	147717	22.3015485 ppb		98
97) ETHANOL	2.698	45	1535	19.9289127 ppb	#	34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 40.D
Acq On : 2 Jun 2015 1:08 am
Operator : 621
Sample : MS 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:31 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

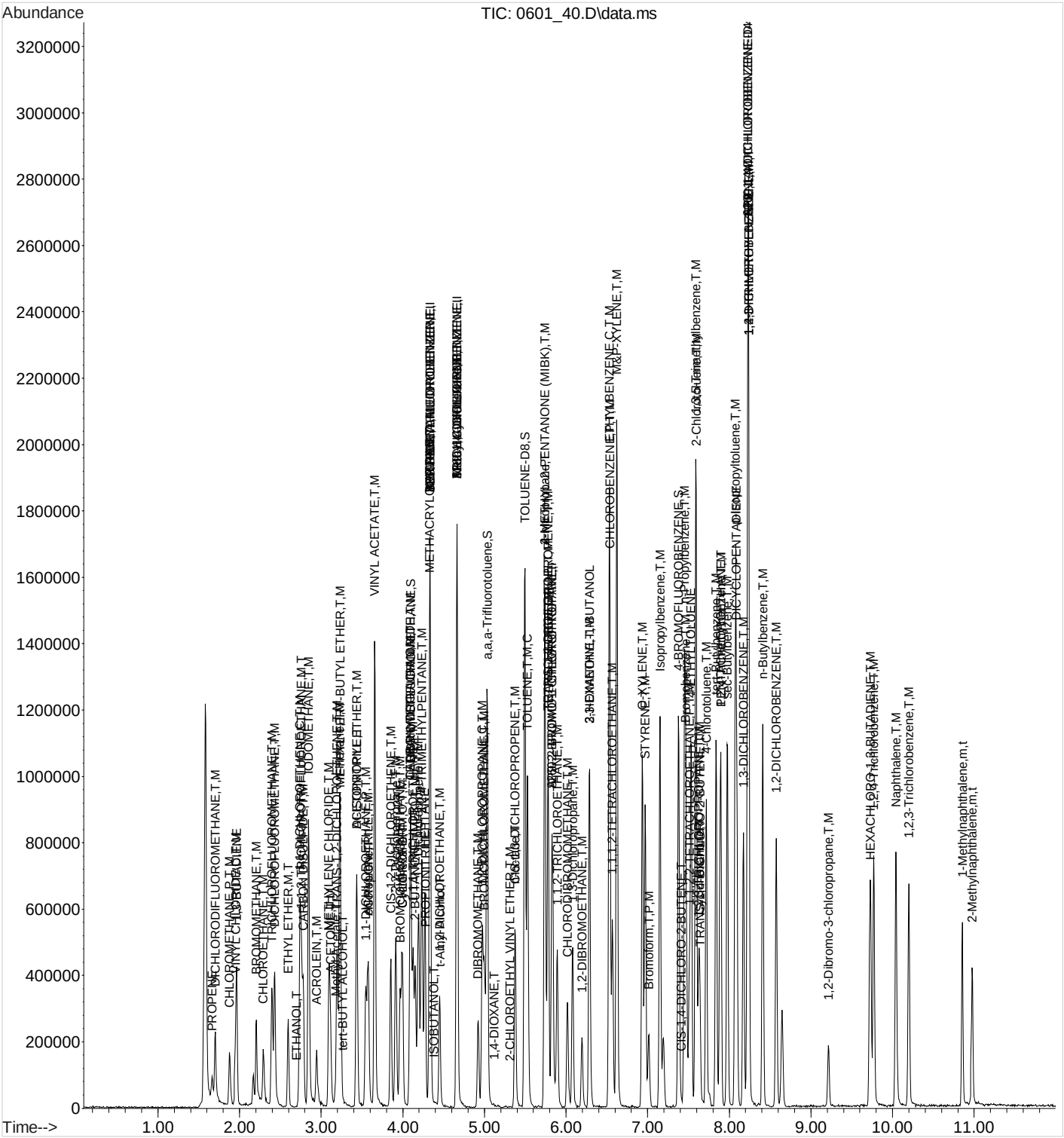
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Methyl Acetate	3.179	43	37561	8.3027319	ppb #	94
101) ACETONITRILE	3.434	41	89285	124.5105172	ppb #	37
103) tert-BUTYL ALCOHOL	3.264	59	1925	2.0146289	ppb #	62
104) chloroprene	3.574	53	244089	28.4151000	ppb #	28
106) PROPIONITRILE	4.280	54	653	0.9126323	ppb #	1
108) METHACRYLONITRILE	4.329	67	1458	0.7293812	ppb #	1
109) Cyclohexane	3.994	84	9968	1.1498764	ppb #	4
111) ISOBUTANOL	4.383	43	1275	3.7763324	ppb #	75
112) t-Amyl Alcohol	4.456	59	1901	3.5785031	ppb #	17
113) TERT-AMYL METHYL ETHER	4.335	73	10992	0.7734053	ppb #	29
116) Methyl Cyclohexane	4.663	83	13766	0.3710196	ppb #	36
117) 2-nitropropane	5.740	43	830558	430.5013936	ppb #	43
119) 1,4-DIOXANE	5.120	88	1241	21.5005557	ppb #	14
120) n-octane	5.375	85	3591	0.6802848	ppb #	29
121) 3,3-DIMETHYL-1-BUTANOL	6.288	57	115690	219.1484790	ppb #	47
124) CIS-1,4-DICHLORO-2-BUTENE	7.413	53	2644	1.5401432	ppb #	26
125) Cyclohexanone	7.638	55	781	0.6762079	ppb #	1
126) PENTACHLOROETHANE	7.894	117	16471	5.8723939	ppb #	10

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 40.D
Acq On : 2 Jun 2015 1:08 am
Operator : 621
Sample : MS 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:31 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 41.D
Acq On : 2 Jun 2015 1:27 am
Operator : 621
Sample : MSD 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	407652	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	704386	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	123323	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	310838	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	407652	40.0000000 ppb	# 0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	704386	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	123323	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	310838	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	225342	45.5253673 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 113.81%		
46) a,a,a-Trifluorotoluene	5.034	146	380763	40.8237933 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.06%		
50) TOLUENE-D8	5.497	98	876899	44.0350731 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.09%		
68) 4-BROMOFLUOROBENZENE	7.377	95	341422	43.2242626 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.06%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	22170	23.6783151 ppb	94
4) DICHLORODIFLUOROMETHANE	1.701	85	133056	25.4775686 ppb	100
5) CHLOROMETHANE	1.877	50	139858	21.1290659 ppb	97
6) VINYL CHLORIDE	1.950	62	137804	22.5807796 ppb	97
7) 1,3-BUTADIENE	1.962	39	117435	25.2973383 ppb	87
8) BROMOMETHANE	2.200	94	100105	30.3659243 ppb	97
9) CHLOROETHANE	2.297	66	34305	40.4015679 ppb	91
10) TRICHLOROFLUOROMETHANE	2.394	101	222991	31.4791503 ppb	96
11) DICHLOROFLUOROMETHANE	2.431	67	285129	30.6146728 ppb	96
12) ETHYL ETHER	2.595	59	104955	25.2931557 ppb	91
13) ACROLEIN	2.948	56	101449	111.8689746 ppb	99
14) 1,1-DICHLOROETHENE	2.741	61	219729	29.3150994 ppb	92
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	122298	29.3292528 ppb	99
16) ACETONE	3.112	43	231829	75.0306248 ppb	92
17) IODOMETHANE	2.844	142	758310	141.2835194 ppb	99
18) CARBON DISULFIDE	2.777	76	319114	20.4825849 ppb	97
19) METHYLENE CHLORIDE	3.100	84	124518	25.5159979 ppb	98
20) ACRYLONITRILE	3.574	53	225218	113.8025204 ppb	96
21) n-Hexane	3.222	56	110704	22.1078612 ppb	92
22) TRANS-1,2-DICHLOROETHENE	3.191	96	113450	24.7922160 ppb	95
23) METHYL TERT-BUTYL ETHER	3.234	73	410304	28.5808259 ppb	90
24) 1,1-DICHLOROETHANE	3.550	63	243960	27.4001058 ppb	97
25) VINYL ACETATE	3.654	43	1461426	172.4635178 ppb	99
26) DI-ISOPROPYL ETHER	3.434	45	451888	25.2578838 ppb	97
27) 2,2-Dichloropropane	3.915	77	239145	29.9914622 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.854	96	131298	25.0925000 ppb	98
29) 2-BUTANONE (MEK)	4.158	72	91520	116.5027608 ppb	84
30) BROMOCHLOROMETHANE	3.970	130	74721	26.3288144 ppb	100
31) TETRAHYDROFURAN	4.092	42	41198	22.7932504 ppb #	83
32) CHLOROFORM	3.994	83	250243	28.8773894 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.128	97	215045	30.4082553 ppb	99
35) CARBON TETRACHLORIDE	4.092	117	195968	30.7954383 ppb	91
36) 1,1-Dichloropropene	4.195	75	189190	27.8447895 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 41.D
Acq On : 2 Jun 2015 1:27 am
Operator : 621
Sample : MSD 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	509562	23.8318294 ppb		98
38)	HEPTANE	4.268	43	198897	20.5361886 ppb		95
39)	BENZENE	4.335	78	466967	24.7447027 ppb		96
40)	1,2-DICHLOROETHANE	4.450	62	211467	31.4759189 ppb	#	93
42)	TRICHLOROETHENE	4.663	130	123868	27.1145790 ppb		98
43)	1,2-DICHLOROPROPANE	4.980	62	95468	25.8600973 ppb		99
44)	DIBROMOMETHANE	4.925	93	83500	28.7265200 ppb		97
45)	BROMODICHLOROMETHANE	4.998	83	197825	28.4941852 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.375	63	1578	11.9443501 ppb	#	48
48)	CIS-1,3-DICHLOROPROPENE	5.375	75	222216	26.3716947 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.740	58	286178	133.1682610 ppb		100
51)	TOLUENE	5.527	91	516747	25.7893244 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	44429	24.7015722 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.892	97	108404	24.2958377 ppb		98
55)	TETRACHLOROETHENE	5.783	164	87375	24.2753662 ppb		97
56)	1,3-Dichloropropane	6.081	76	205534	26.4129905 ppb		98
57)	2-HEXANONE	6.288	58	275969	117.4252387 ppb		99
58)	CHLORODIBROMOMETHANE	6.020	129	123980	27.0316799 ppb		99
59)	1,2-DIBROMOETHANE	6.196	107	115365	26.2941311 ppb		98
60)	CHLOROBENZENE	6.537	112	325062	25.7647058 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.568	133	112428	26.8026396 ppb	#	100
62)	ETHYLBENZENE	6.531	106	182259	26.2482892 ppb		93
63)	M&P-XYLENE	6.628	106	443894	51.0944125 ppb		92
64)	O-XYLENE	6.933	106	213615	25.5080390 ppb		86
65)	STYRENE	6.969	104	349180	25.8551530 ppb		90
66)	Bromoform	7.018	173	79019	28.1581438 ppb		95
67)	Isopropylbenzene	7.152	105	621093	27.4750548 ppb		97
69)	Bromobenzene	7.468	77	278397	26.8067844 ppb		93
70)	1,1,2,2-TETRACHLOROETHANE	7.504	83	153929	25.4596925 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.626	110	43896	27.4109143 ppb		94
72)	TRANS-1,4-DICHLORO-2-B...	7.638	53	45992	24.1928837 ppb		96
73)	n-Propylbenzene	7.456	91	725583	27.0728967 ppb		99
74)	4-ETHYLTOLUENE	7.529	105	557552	25.5333727 ppb		97
75)	2-Chlorotoluene	7.596	126	118145	24.2102037 ppb	#	85
76)	4-Chlorotoluene	7.717	91	453694	26.7179069 ppb		97
77)	1,3,5-Trimethylbenzene	7.590	105	489449	26.1320143 ppb		98
78)	tert-Butylbenzene	7.839	119	436052	27.8111228 ppb		96
79)	1,2,4-Trimethylbenzene	7.894	105	498945	25.7083920 ppb		99
80)	sec-Butylbenzene	7.979	105	676572	27.2222733 ppb		96
81)	1,3-DICHLOROBENZENE	8.174	146	256780	25.1876688 ppb		98
82)	p-Isopropyltoluene	8.076	119	546001	26.8023127 ppb		99
83)	DICYCLOPENTADIENE	8.088	66	605095	26.8893311 ppb		98
85)	1,4-DICHLOROBENZENE	8.241	146	248907	25.7689908 ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.234	105	501709	28.5882053 ppb		98
87)	1,2-DICHLOROBENZENE	8.575	146	249153	28.0841576 ppb		98
88)	n-Butylbenzene	8.411	91	536561	28.4900680 ppb		98
89)	1,2-Dibromo-3-chloropr...	9.220	157	31344	27.3456189 ppb		92
90)	1,2,4-Trichlorobenzene	9.768	180	168625	28.4136349 ppb		96
91)	HEXACHLORO-1,3-BUTADIENE	9.725	225	99924	29.0847344 ppb		95
92)	Naphthalene	10.041	128	409670	24.8901356 ppb		97
93)	1,2,3-Trichlorobenzene	10.199	180	145166	26.0119128 ppb		98
94)	1-Methylnaphthalene	10.856	142	170560	21.1459800 ppb		98
95)	2-Methylnaphthalene	10.972	142	154179	23.1911048 ppb		93
97)	ETHANOL	2.662	45	1424	19.1709350 ppb	#	40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 41.D
Acq On : 2 Jun 2015 1:27 am
Operator : 621
Sample : MSD 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

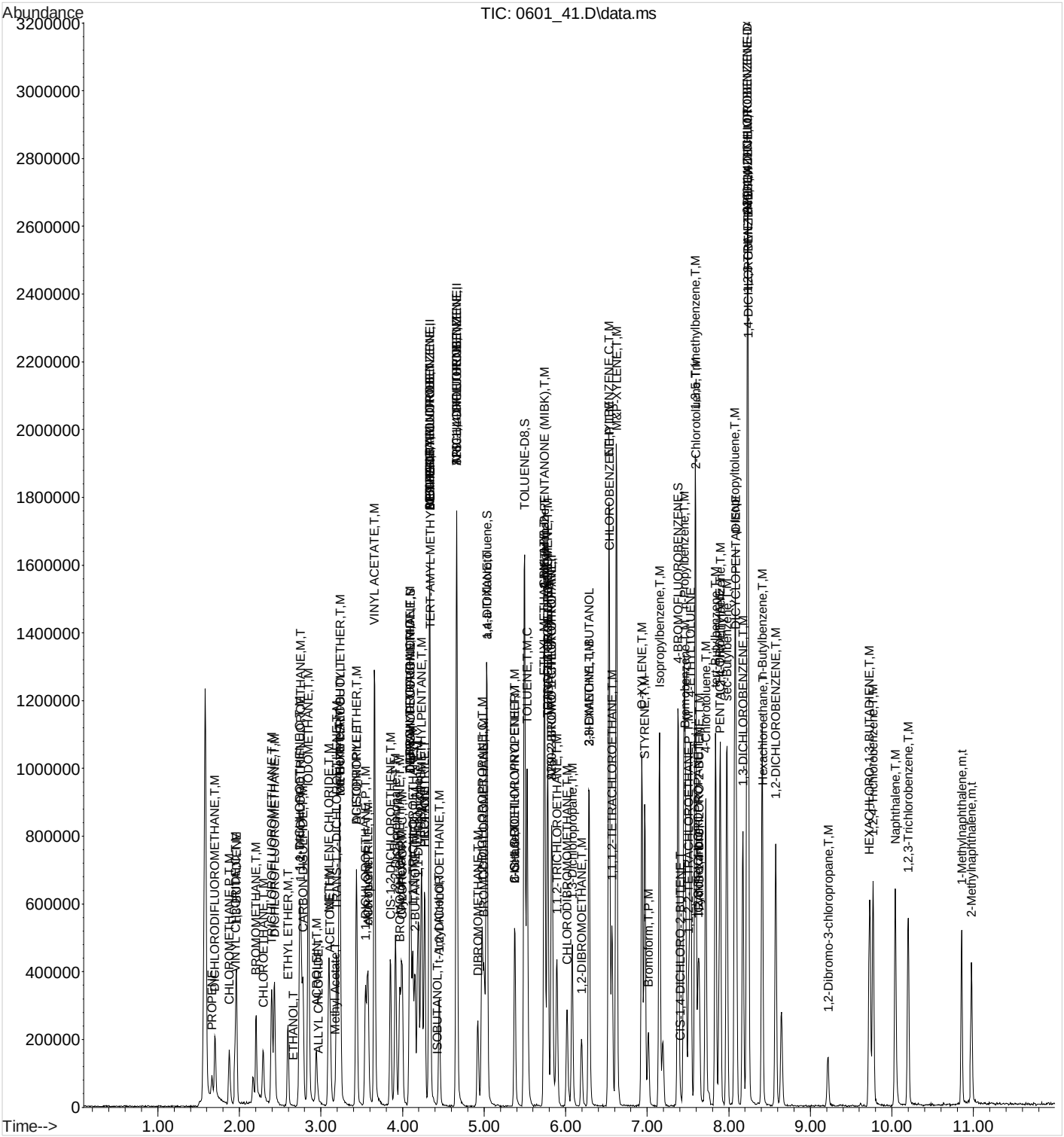
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Methyl Acetate	3.173	43	35450	8.1256514 ppb #	91
101) ACETONITRILE	3.434	41	84100	121.6134508 ppb #	33
102) ALLYL CHLORIDE	2.972	76	1217	0.4758540 ppb #	1
103) tert-BUTYL ALCOHOL	3.234	59	1757	1.9067518 ppb #	1
104) chloroprene	3.574	53	225218	27.1870546 ppb #	28
106) PROPIONITRILE	4.268	54	1556	2.2550196 ppb #	1
108) METHACRYLONITRILE	4.335	67	745	0.3864661 ppb #	1
109) Cyclohexane	3.988	84	4958	0.5930724 ppb #	27
111) ISOBUTANOL	4.426	43	1089	3.3446139 ppb #	75
112) t-Amyl Alcohol	4.444	59	1759	3.4335486 ppb #	17
113) TERT-AMYL METHYL ETHER	4.341	73	10358	0.7557260 ppb #	21
117) 2-nitropropane	5.740	43	774304	403.4675062 ppb #	43
119) 1,4-DIOXANE	5.034	88	6320	110.0746837 ppb #	39
120) n-octane	5.375	85	3649	0.6949310 ppb #	22
121) 3,3-DIMETHYL-1-BUTANOL	6.288	57	106011	201.8766253 ppb #	47
123) ETHYL METHACRYLATE	5.734	69	5720	0.9118703 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.407	53	1892	1.0697129 ppb #	30
125) Cyclohexanone	7.632	55	1099	0.9235774 ppb #	1
126) PENTACHLOROETHANE	7.888	117	18723	6.4791359 ppb #	13
127) Hexachloroethane	8.417	117	4865	1.4194527 ppb #	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 41.D
Acq On : 2 Jun 2015 1:27 am
Operator : 621
Sample : MSD 1x WG791367 L767160-06
Misc : water IS/SURR15A20860/SPK15E24227
ALS Vial : 41 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jun 02 08:57:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 44.D
Acq On : 2 Jun 2015 2:25 am
Operator : 621
Sample : L767115-09 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 44 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:22:22 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

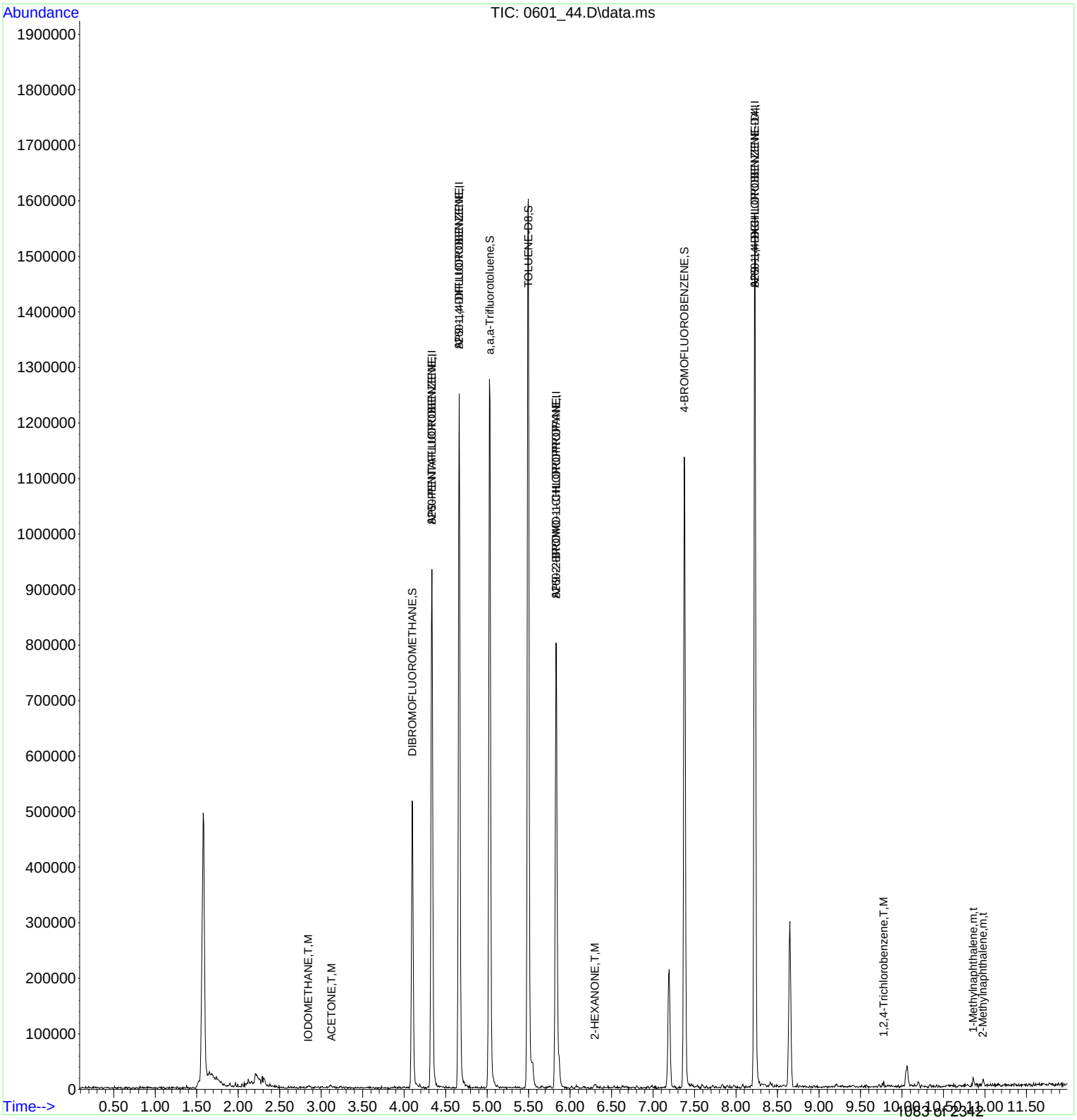
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	435230	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	703659	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	118472	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	333819	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	435230	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	703659	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	118472	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	333819	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	241560	45.7095651 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 114.27%		
46) a,a,a-Trifluorotoluene	5.034	146	390594	41.9210983 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.80%		
50) TOLUENE-D8	5.497	98	852025	42.8301853 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.08%		
68) 4-BROMOFLUOROBENZENE	7.377	95	330721	43.5839135 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.96%		
Target Compounds					Qvalue
16) ACETONE	3.124	43	3989	1.2092208 ppb	99
17) IODOMETHANE	2.844	142	3297	0.5753531 ppb #	94
57) 2-HEXANONE	6.300	58	1308	0.5793450 ppb	81
90) 1,2,4-Trichlorobenzene	9.780	180	2014	0.3160002 ppb #	77
94) 1-Methylnaphthalene	10.856	142	3897	0.4498877 ppb #	67
95) 2-Methylnaphthalene	10.972	142	3721	0.5211694 ppb	96

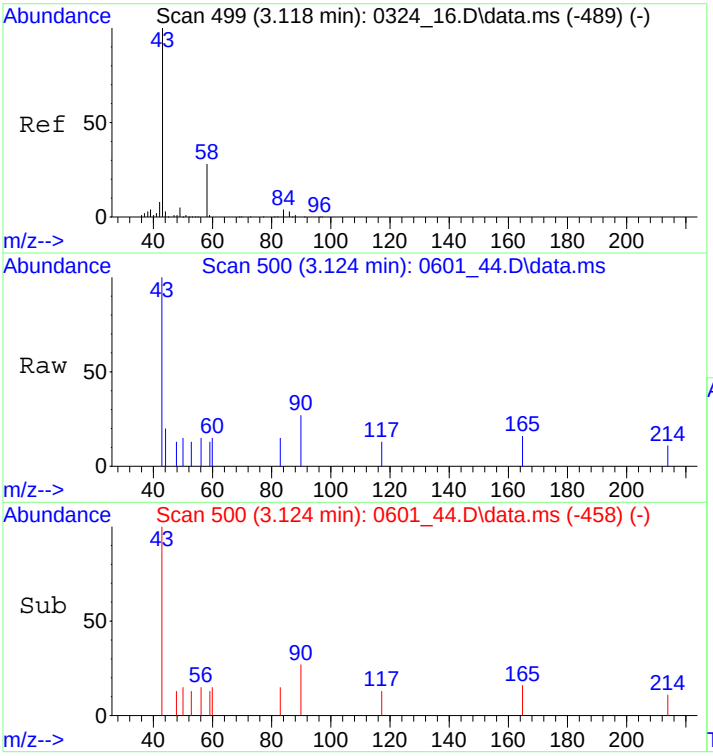
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 44.D
Acq On : 2 Jun 2015 2:25 am
Operator : 621
Sample : L767115-09 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 44 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:22:22 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

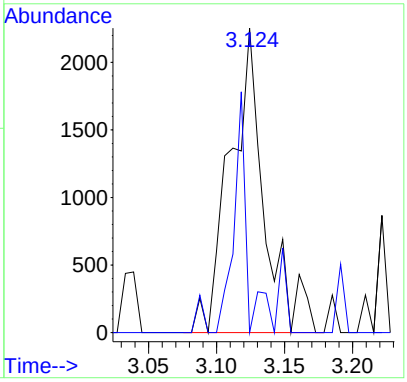


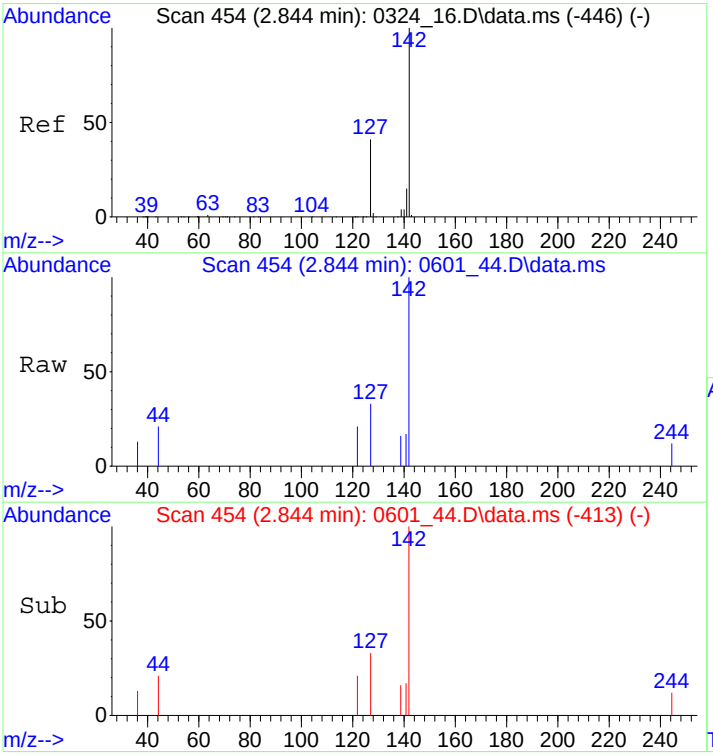


#16
ACETONE
Concen: 1.2092208 ppb
RT: 3.124 min Scan# 500
Delta R.T. 0.006 min
Lab File: 0601 44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion: 43 Resp: 3989

Ion	Ratio	Lower	Upper
43	100		
58	29.9	24.2	36.4

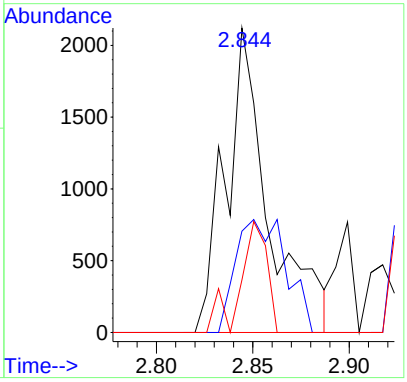


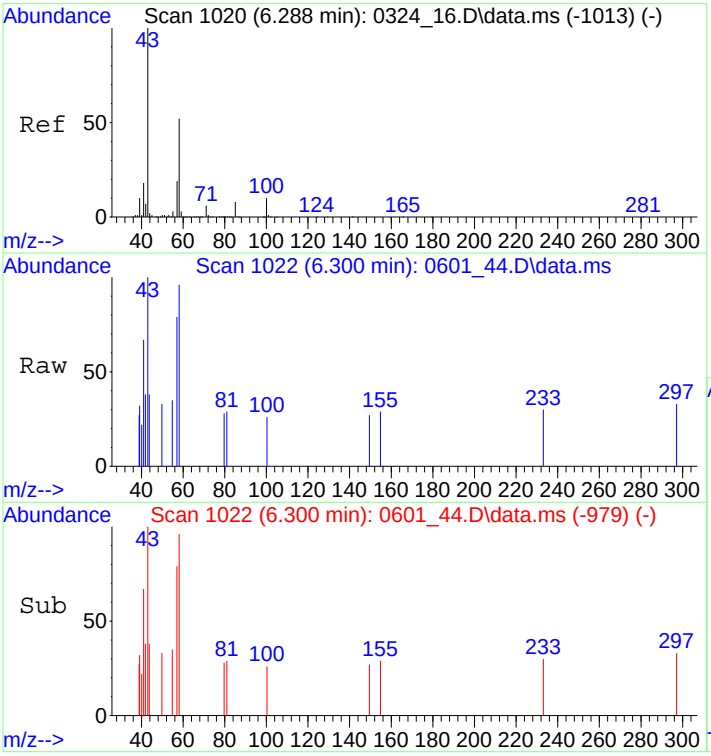


#17
IODOMETHANE
Concen: 0.5753531 ppb
RT: 2.844 min Scan# 454
Delta R.T. -0.000 min
Lab File: 0601_44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion:142 Resp: 3297

Ion	Ratio	Lower	Upper
142	100		
127	43.4	33.7	50.5
141	22.7	11.8	17.6#

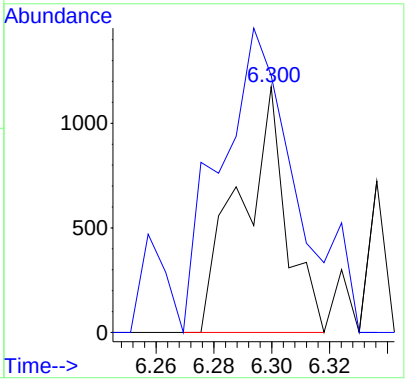


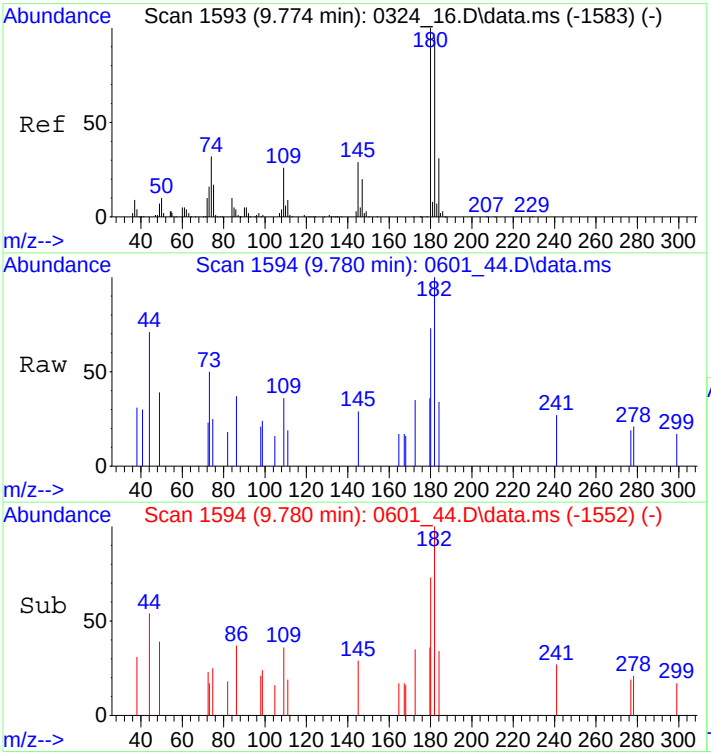


#57
2-HEXANONE
Concen: 0.5793450 ppb
RT: 6.300 min Scan# 1022
Delta R.T. 0.012 min
Lab File: 0601 44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion: 58 Resp: 1308

Ion	Ratio	Lower	Upper
58	100		
43	225.2	157.8	236.6

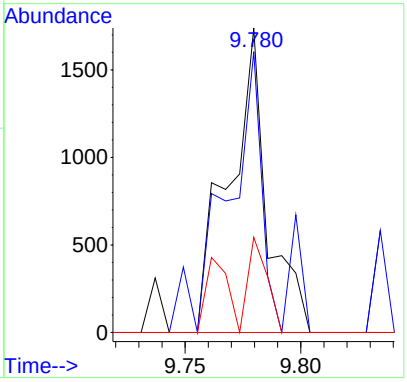


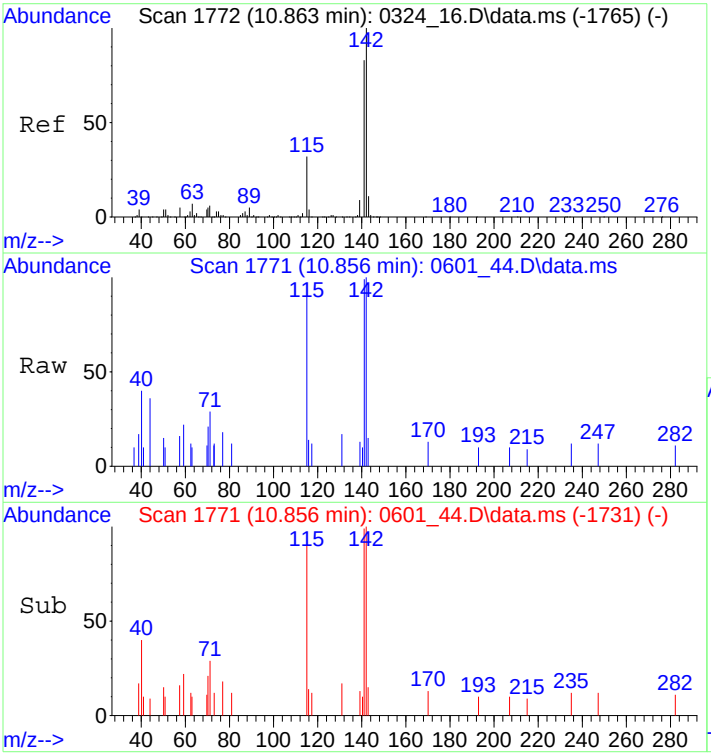


#90
1,2,4-Trichlorobenzene
Concen: 0.3160002 ppb
RT: 9.780 min Scan# 1594
Delta R.T. 0.006 min
Lab File: 0601_44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion:180 Resp: 2014

Ion	Ratio	Lower	Upper
180	100		
182	83.6	77.1	115.7
184	0.0	24.3	36.5#

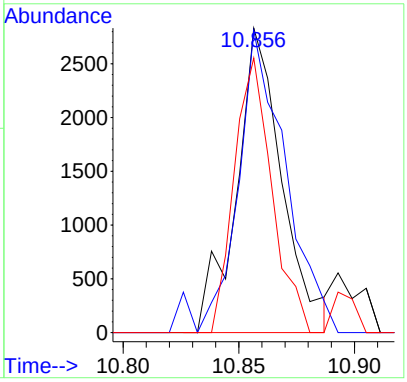


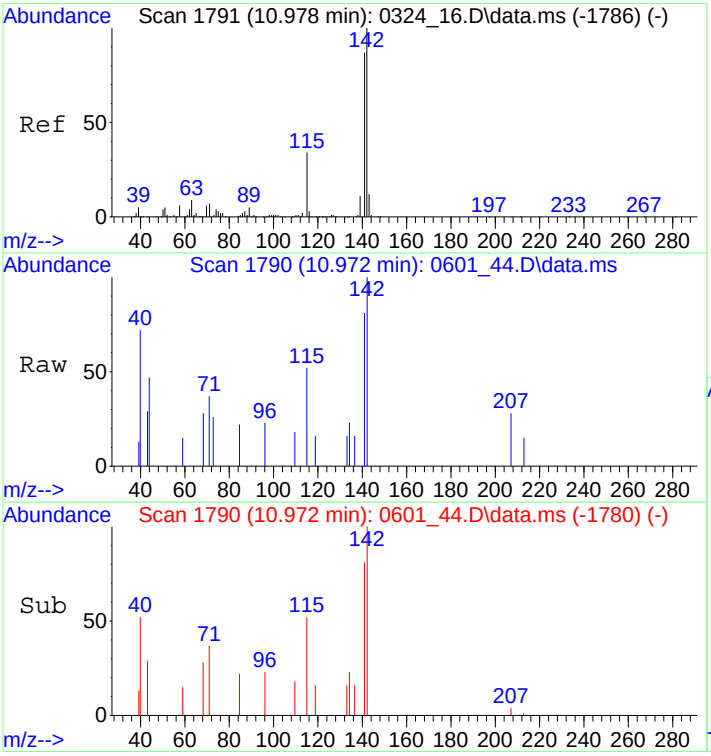


#94
1-Methylnaphthalene
Concen: 0.4498877 ppb
RT: 10.856 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 0601 44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion:142 Resp: 3897

Ion	Ratio	Lower	Upper
142	100		
141	105.2	70.4	105.6
115	74.5	27.3	40.9#

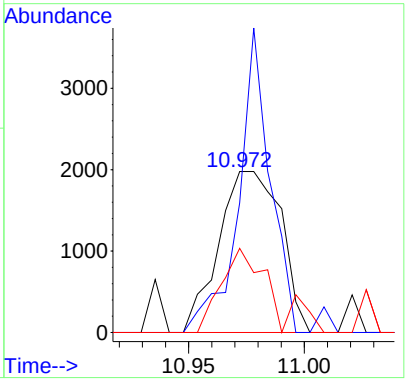




#95
2-Methylnaphthalene
Concen: 0.5211694 ppb
RT: 10.972 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 0601_44.D
Acq: 2 Jun 2015 2:25 am

Tgt Ion:142 Resp: 3721

Ion	Ratio	Lower	Upper
142	100		
141	95.4	73.8	110.8
115	42.5	30.4	45.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 45.D
Acq On : 2 Jun 2015 2:44 am
Operator : 621
Sample : L767115-11 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 45 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:23:39 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

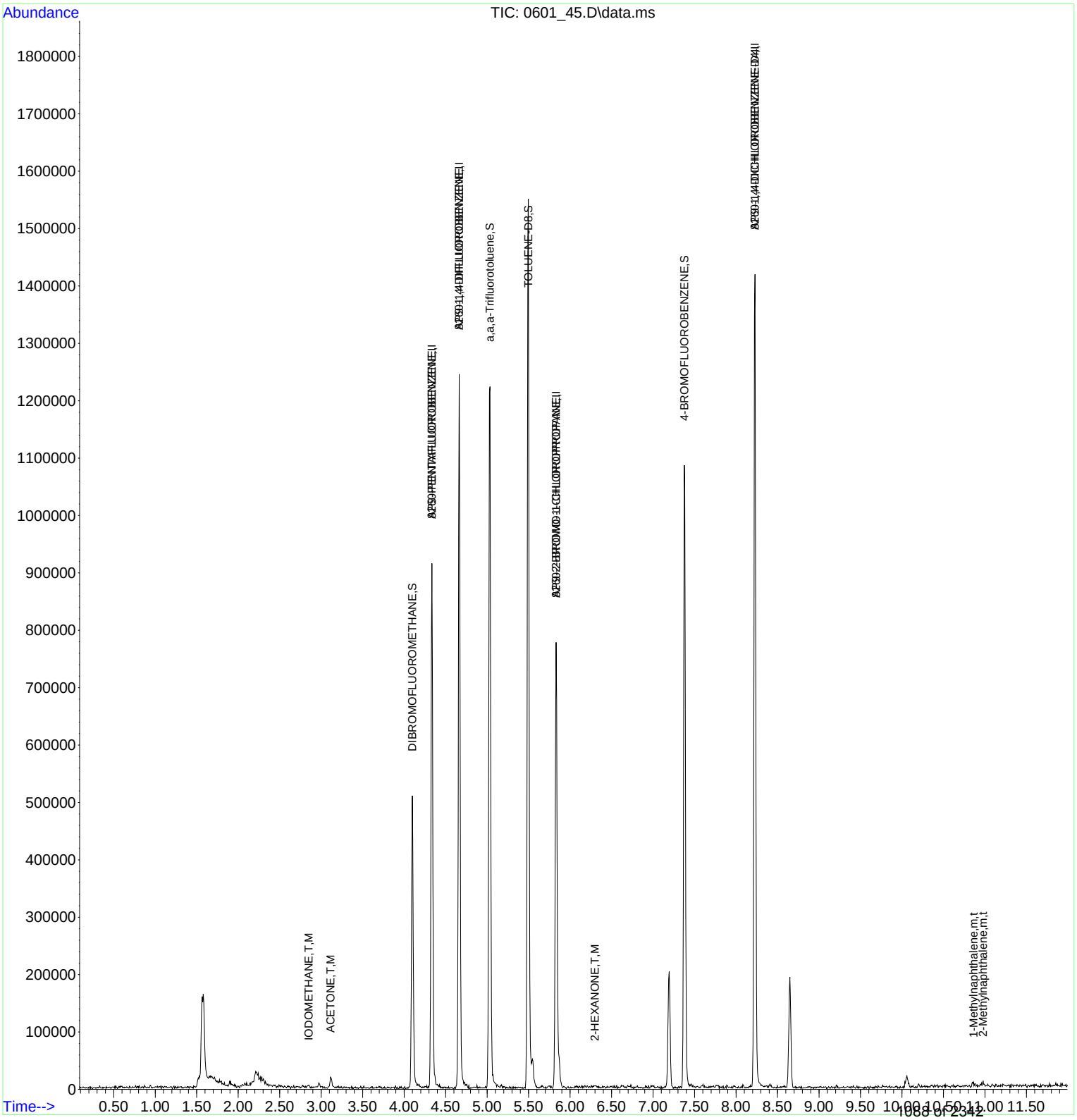
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	431366	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	680263	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	114870	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	299785	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	431366	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	680263	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	114870	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	299785	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	228953	43.7120645 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.28%		
46) a,a,a-Trifluorotoluene	5.034	146	371622	41.2566440 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.14%		
50) TOLUENE-D8	5.497	98	827109	43.0076545 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.52%		
68) 4-BROMOFLUOROBENZENE	7.377	95	328012	44.5823835 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 111.46%		
Target Compounds					Qvalue
16) ACETONE	3.112	43	20740	6.3434164 ppb #	87
17) IODOMETHANE	2.850	142	3126	0.5503987 ppb #	77
57) 2-HEXANONE	6.300	58	799	0.3649937 ppb #	46
94) 1-Methylnaphthalene	10.863	142	2904	0.3733116 ppb	91
95) 2-Methylnaphthalene	10.978	142	2065	0.3220627 ppb #	49

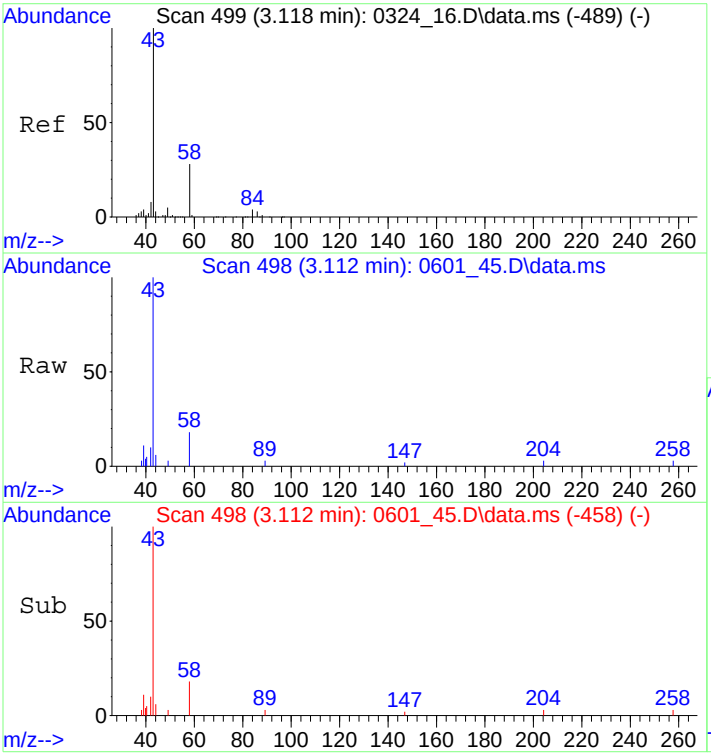
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 45.D
Acq On : 2 Jun 2015 2:44 am
Operator : 621
Sample : L767115-11 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 45 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:23:39 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

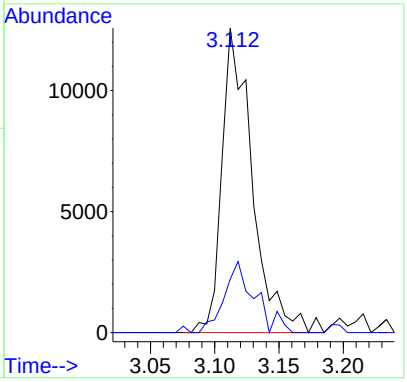


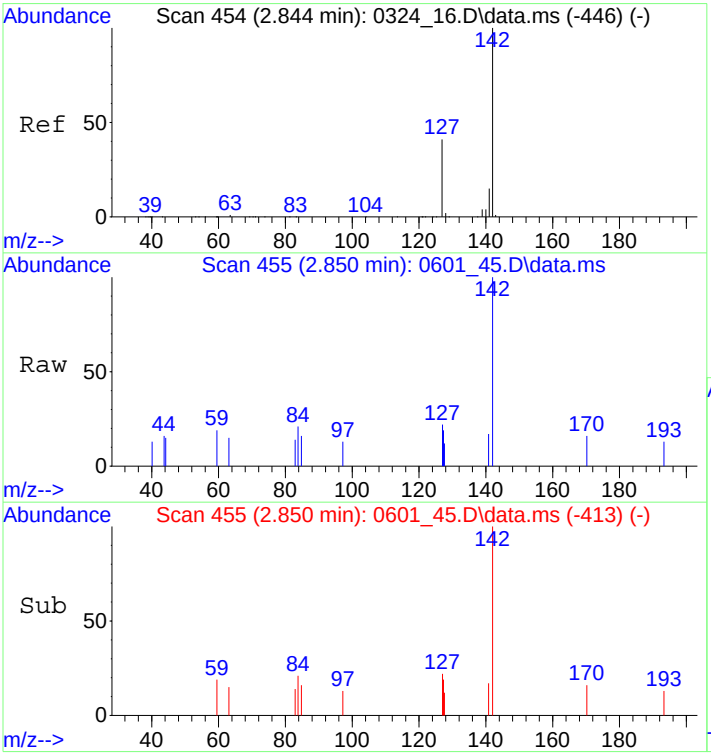


#16
ACETONE
Concen: 6.3434164 ppb
RT: 3.112 min Scan# 498
Delta R.T. -0.006 min
Lab File: 0601 45.D
Acq: 2 Jun 2015 2:44 am

Tgt Ion: 43 Resp: 20740

Ion	Ratio	Lower	Upper
43	100		
58	23.4	24.2	36.4#

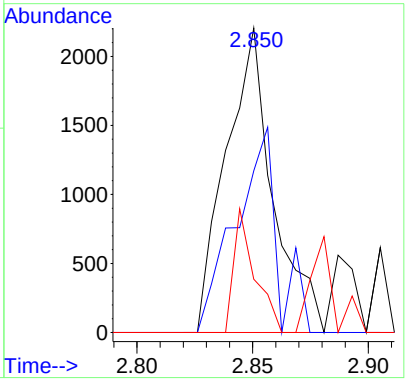


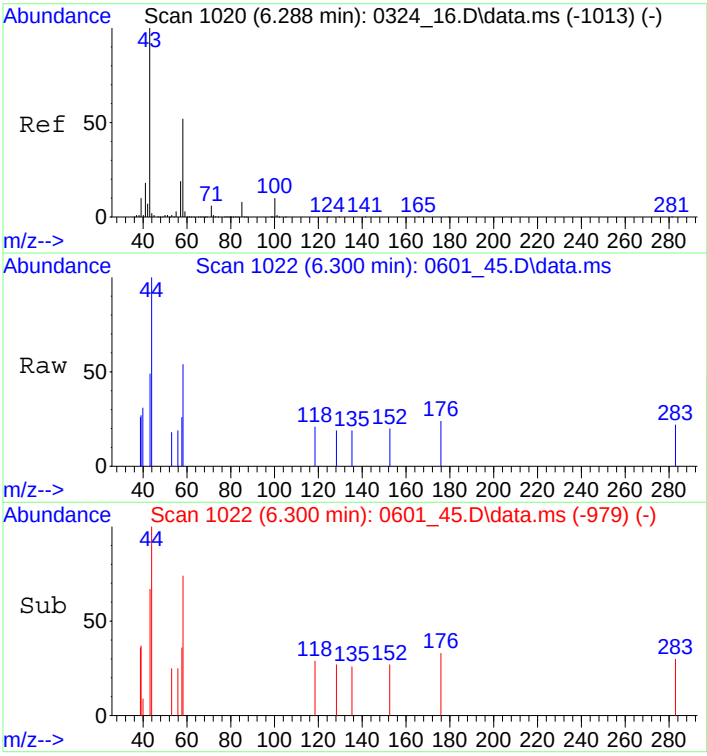


#17
IODOMETHANE
Concen: 0.5503987 ppb
RT: 2.850 min Scan# 455
Delta R.T. 0.006 min
Lab File: 0601_45.D
Acq: 2 Jun 2015 2:44 am

Tgt Ion:142 Resp: 3126

Ion	Ratio	Lower	Upper
142	100		
127	60.0	33.7	50.5#
141	18.2	11.8	17.6#

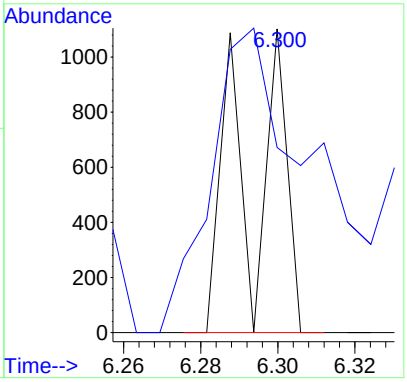


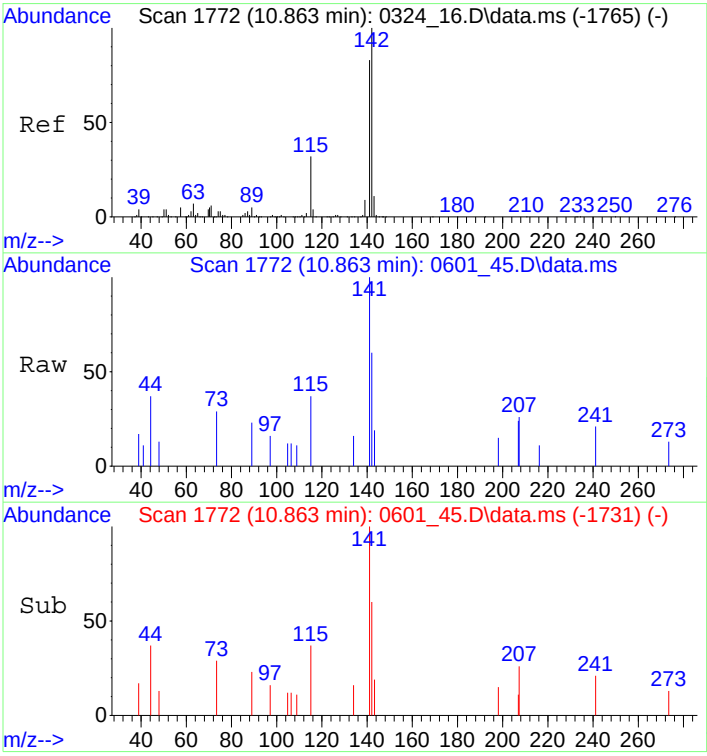


#57
2-HEXANONE
Concen: 0.3649937 ppb
RT: 6.300 min Scan# 1022
Delta R.T. 0.012 min
Lab File: 0601 45.D
Acq: 2 Jun 2015 2:44 am

Tgt Ion: 58 Resp: 799

Ion	Ratio	Lower	Upper
58	100		
43	278.6	157.8	236.6#

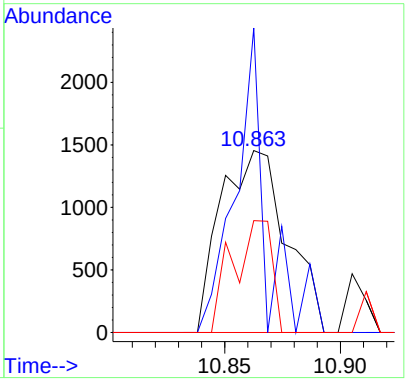


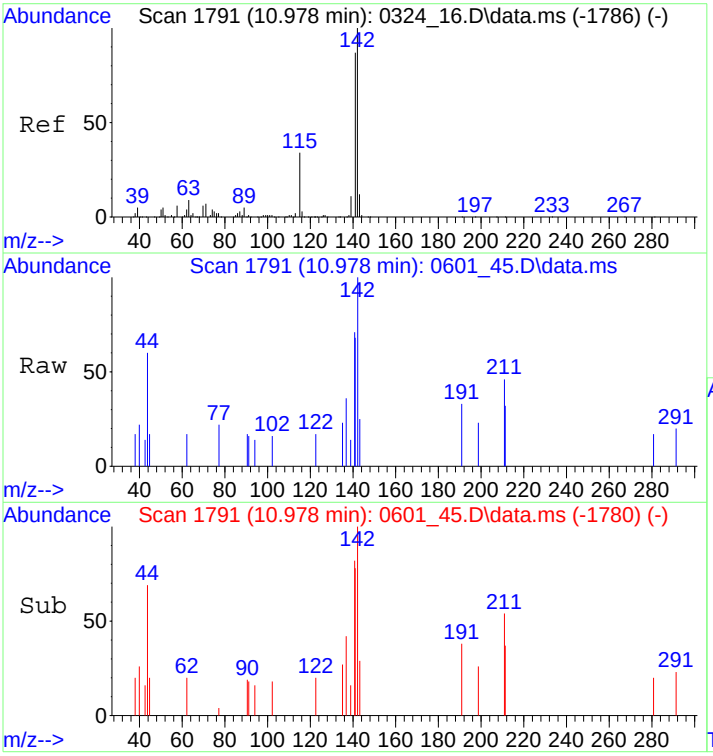


#94
1-Methylnaphthalene
Concen: 0.3733116 ppb
RT: 10.863 min Scan# 1772
Delta R.T. -0.000 min
Lab File: 0601_45.D
Acq: 2 Jun 2015 2:44 am

Tgt Ion:142 Resp: 2904

Ion	Ratio	Lower	Upper
142	100		
141	77.8	70.4	105.6
115	36.5	27.3	40.9

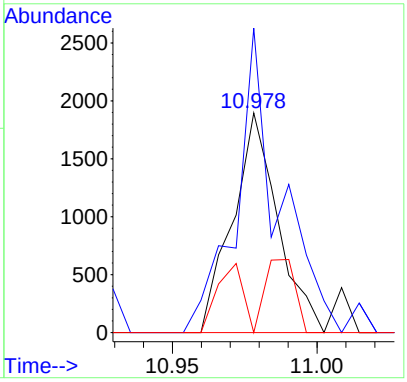




#95
2-Methylnaphthalene
Concen: 0.3220627 ppb
RT: 10.978 min Scan# 1791
Delta R.T. -0.000 min
Lab File: 0601 45.D
Acq: 2 Jun 2015 2:44 am

Tgt Ion:142 Resp: 2065

Ion	Ratio	Lower	Upper
142	100		
141	135.8	73.8	110.8#
115	0.0	30.4	45.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 46.D
Acq On : 2 Jun 2015 3:04 am
Operator : 621
Sample : L767115-07 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 46 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:25:03 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

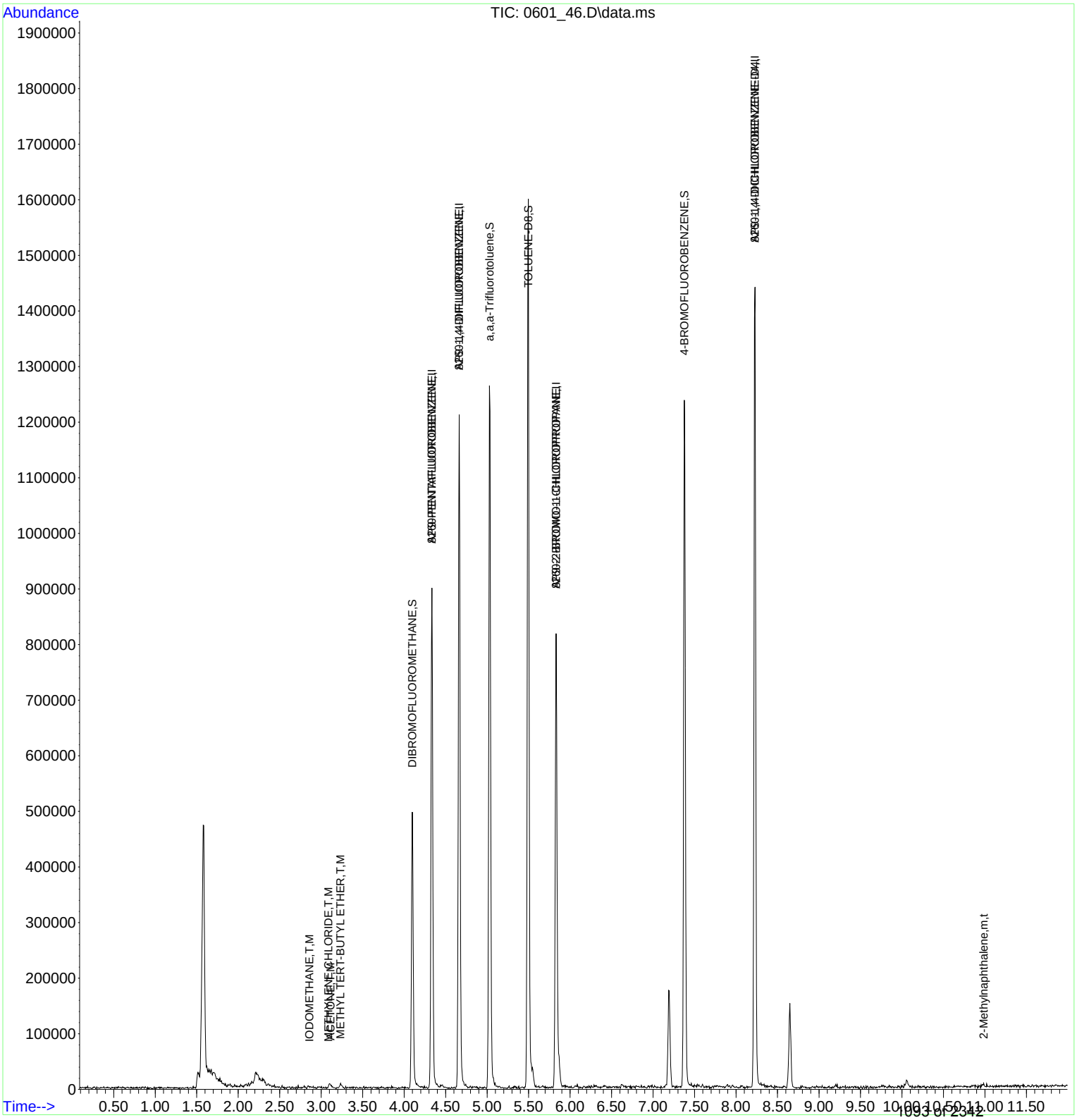
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	426782	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	685473	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	116633	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	307719	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	426782	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	685473	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	116633	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	307719	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	234702	45.2909664 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 113.23%		
46) a,a,a-Trifluorotoluene	5.028	146	380683	41.9413554 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.85%		
50) TOLUENE-D8	5.497	98	849677	43.8453329 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.61%		
68) 4-BROMOFLUOROBENZENE	7.377	95	368539	49.3335285 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 123.33%		
Target Compounds					Qvalue
16) ACETONE	3.112	43	3268	1.0102674 ppb	# 44
17) IODOMETHANE	2.857	142	2213	0.3938307 ppb	# 80
19) METHYLENE CHLORIDE	3.088	84	2040	0.3992952 ppb	# 86
23) METHYL TERT-BUTYL ETHER	3.234	73	5340	0.3552988 ppb	# 41
95) 2-Methylnaphthalene	10.984	142	1986	0.3017555 ppb	# 78

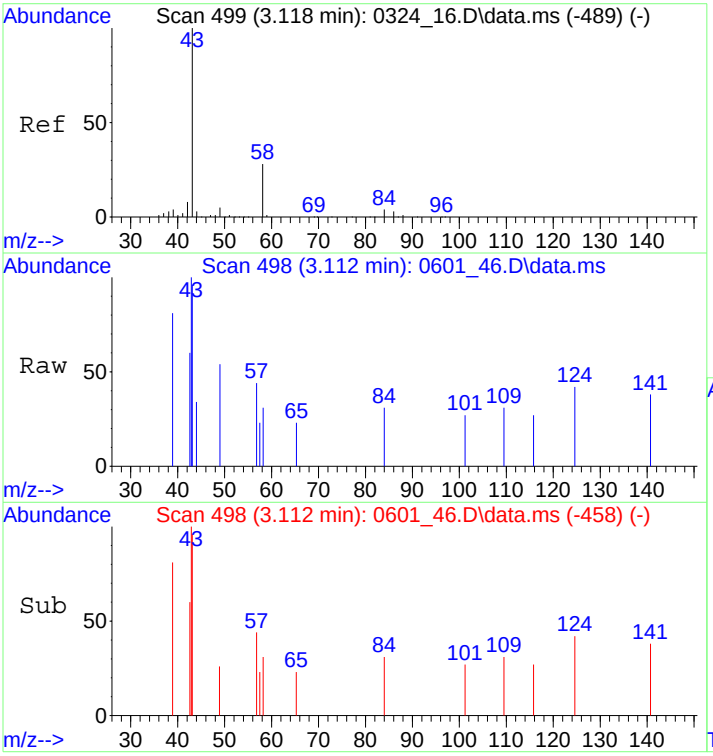
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 46.D
Acq On : 2 Jun 2015 3:04 am
Operator : 621
Sample : L767115-07 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 46 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:25:03 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

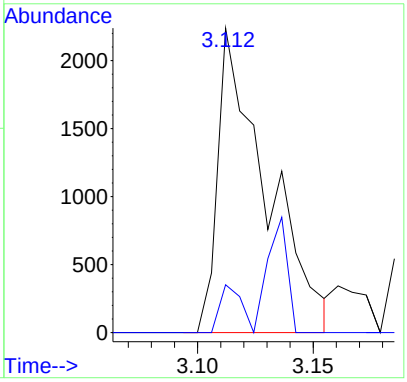


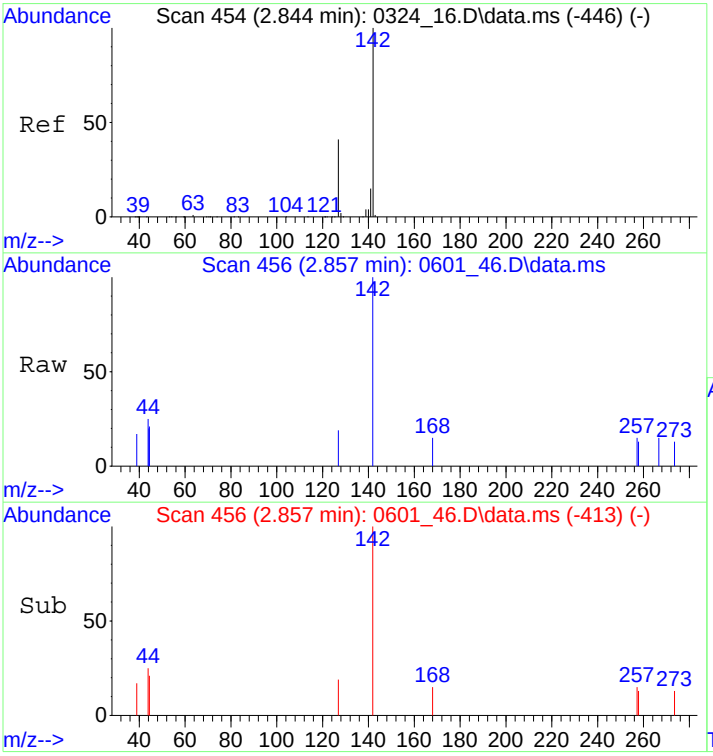


#16
ACETONE
Concen: 1.0102674 ppb
RT: 3.112 min Scan# 498
Delta R.T. -0.006 min
Lab File: 0601 46.D
Acq: 2 Jun 2015 3:04 am

Tgt Ion: 43 Resp: 3268

Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.2	36.4#

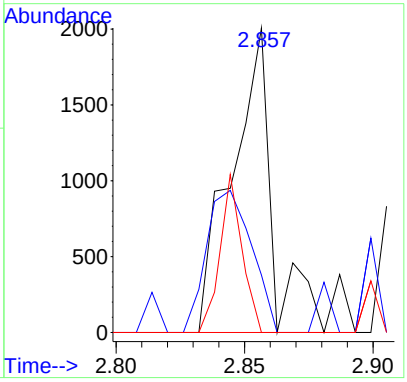


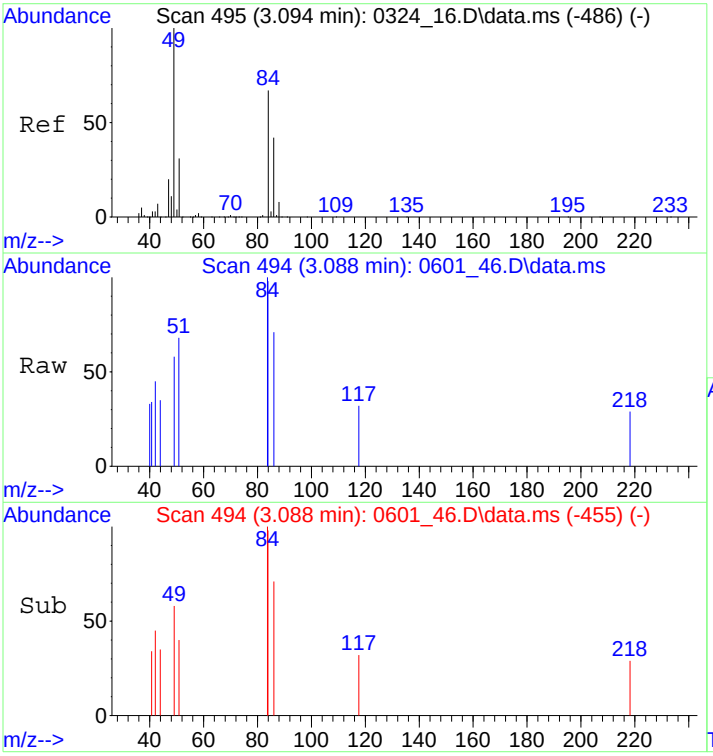


#17
IODOMETHANE
Concen: 0.3938307 ppb
RT: 2.857 min Scan# 456
Delta R.T. 0.012 min
Lab File: 0601_46.D
Acq: 2 Jun 2015 3:04 am

Tgt Ion:142 Resp: 2213

Ion	Ratio	Lower	Upper
142	100		
127	52.0	33.7	50.5#
141	28.0	11.8	17.6#

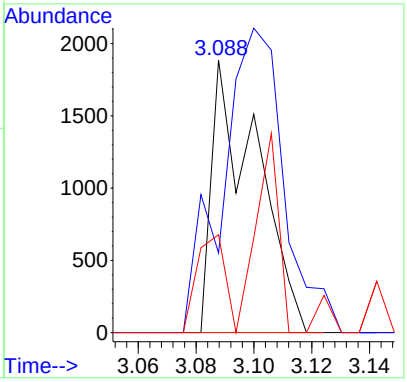


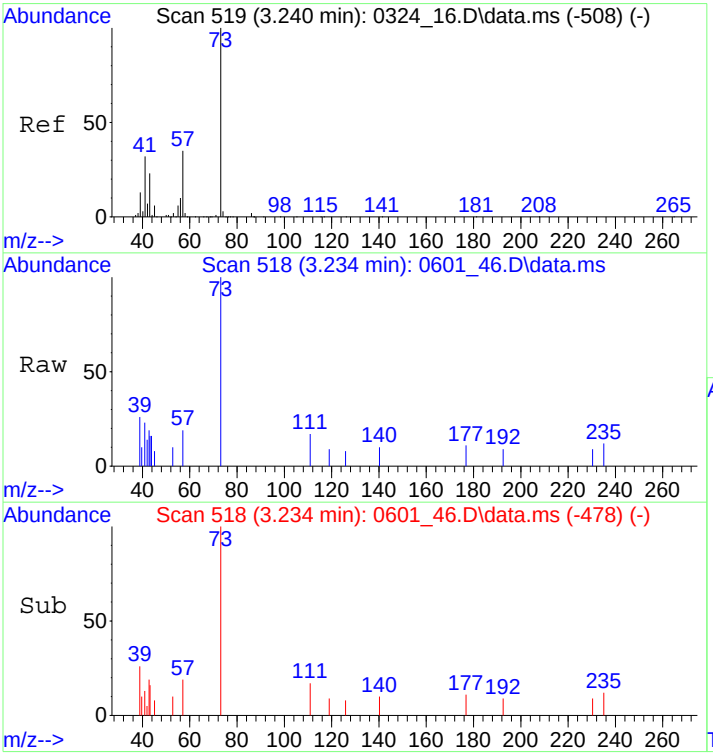


#19
METHYLENE CHLORIDE
Concen: 0.3992952 ppb
RT: 3.088 min Scan# 494
Delta R.T. -0.011 min
Lab File: 0601 46.D
Acq: 2 Jun 2015 3:04 am

Tgt Ion: 84 Resp: 2040

Ion	Ratio	Lower	Upper
84	100		
49	153.2	117.0	175.4
86	36.4	49.9	74.9#

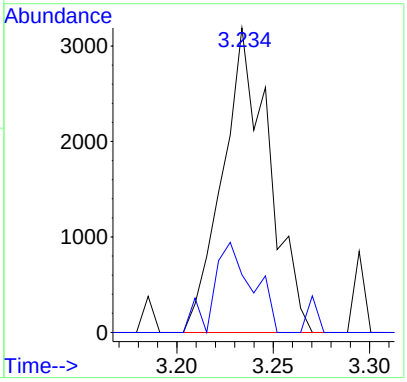


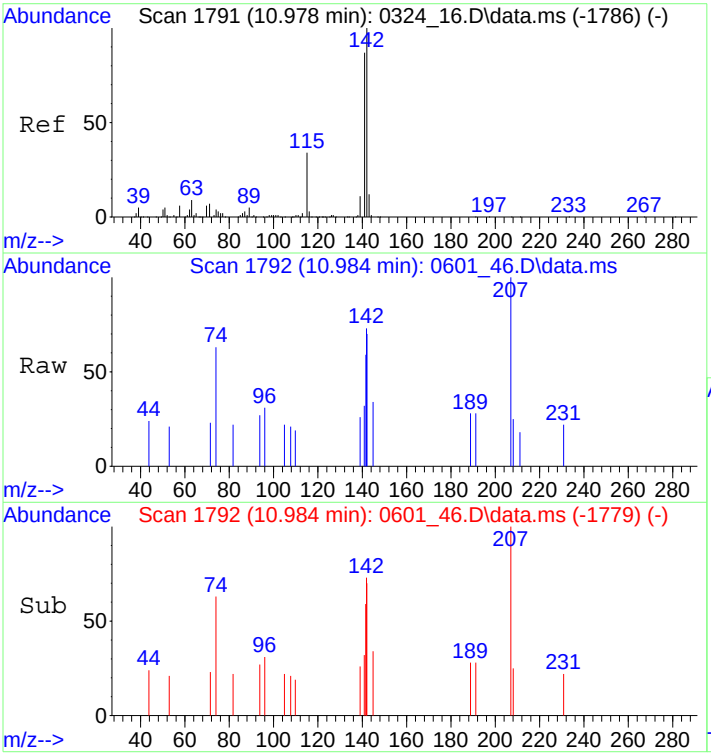


#23
METHYL TERT-BUTYL ETHER
Concen: 0.3552988 ppb
RT: 3.234 min Scan# 518
Delta R.T. -0.006 min
Lab File: 0601_46.D
Acq: 2 Jun 2015 3:04 am

Tgt Ion: 73 Resp: 5340

Ion	Ratio	Lower	Upper
73	100		
57	25.1	59.9	89.9#

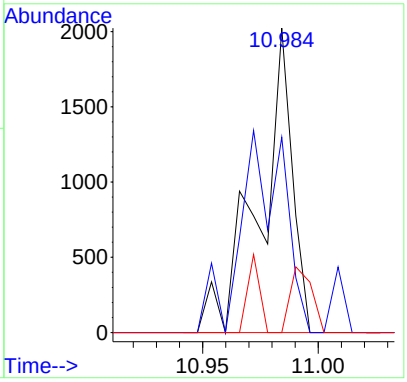




#95
2-Methylnaphthalene
Concen: 0.3017555 ppb
RT: 10.984 min Scan# 1792
Delta R.T. 0.006 min
Lab File: 0601 46.D
Acq: 2 Jun 2015 3:04 am

Tgt Ion:142 Resp: 1986

Ion	Ratio	Lower	Upper
142	100		
141	87.9	73.8	110.8
115	0.0	30.4	45.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 53.D
Acq On : 2 Jun 2015 5:19 am
Operator : 621
Sample : L767115-01 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 53 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:27:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

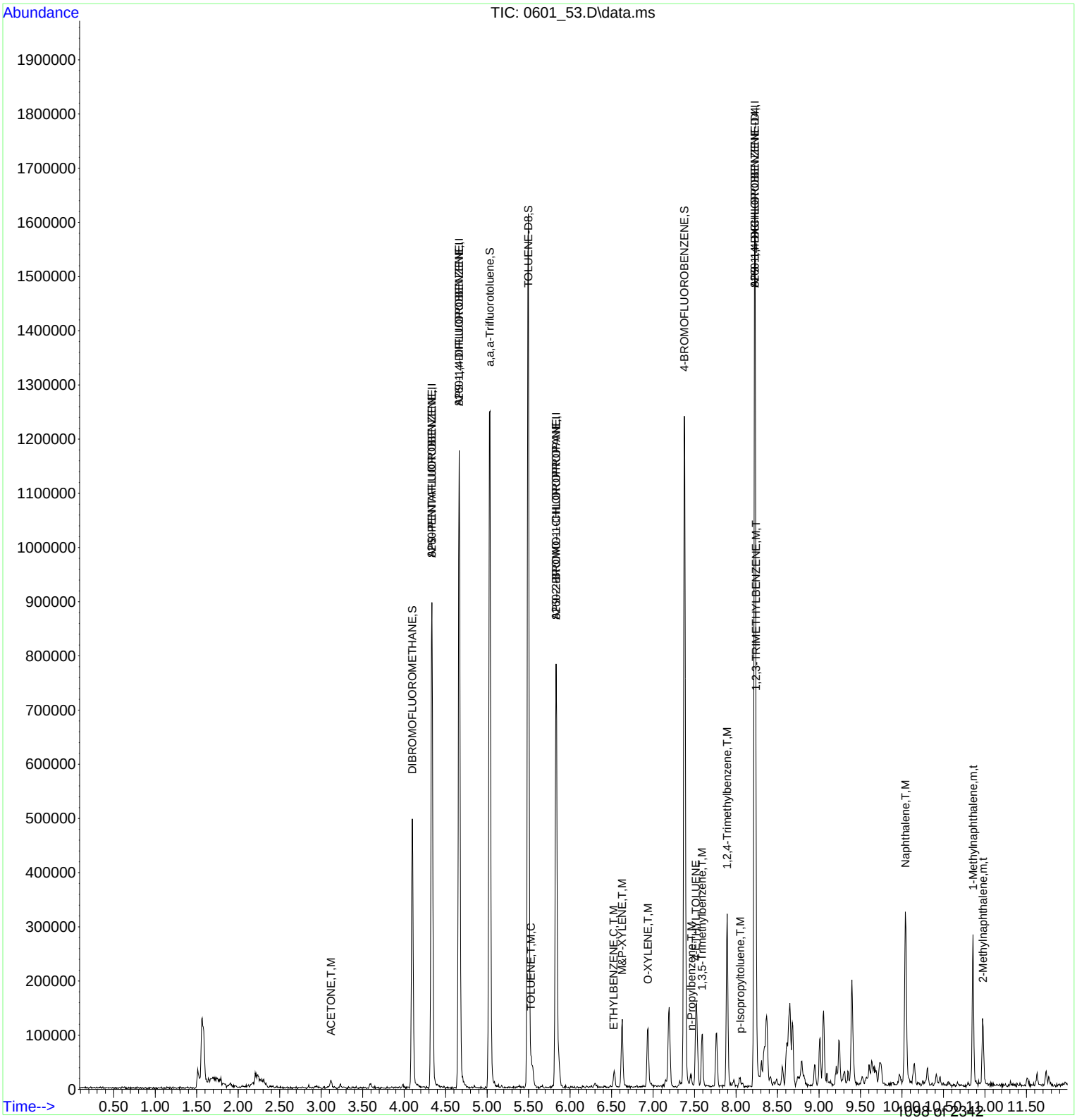
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	413405	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	674529	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	121504	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	336993	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	413405	40.0000000 ppb	# 0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	674529	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	121504	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	336993	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	228379	45.4968504 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 113.74%		
46) a,a,a-Trifluorotoluene	5.034	146	366081	40.9869776 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.47%		
50) TOLUENE-D8	5.497	98	837156	43.9001122 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.75%		
68) 4-BROMOFLUOROBENZENE	7.377	95	370743	47.6389912 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 119.10%		
Target Compounds					Qvalue
16) ACETONE	3.118	43	16416	5.2390434 ppb #	84
51) TOLUENE	5.527	91	8760	0.4565372 ppb #	79
62) ETHYLBENZENE	6.525	106	5145	0.7520573 ppb	96
63) M&P-XYLENE	6.628	106	27400	3.2010924 ppb	93
64) O-XYLENE	6.939	106	23547	2.8538715 ppb	92
73) n-Propylbenzene	7.462	91	13828	0.5236734 ppb #	92
74) 4-ETHYLTOLUENE	7.516	105	103758	4.8227850 ppb	92
77) 1,3,5-Trimethylbenzene	7.589	105	43455	2.3548253 ppb	97
79) 1,2,4-Trimethylbenzene	7.894	105	143657	7.5128123 ppb	100
82) p-Isopropyltoluene	8.052	119	10258	0.5110872 ppb #	80
86) 1,2,3-TRIMETHYLBENZENE	8.240	105	63763	3.3513283 ppb	90
92) Naphthalene	10.041	128	203782	11.4201589 ppb	98
94) 1-Methylnaphthalene	10.856	142	94661	10.8251754 ppb	95
95) 2-Methylnaphthalene	10.978	142	42961	5.9605155 ppb #	88

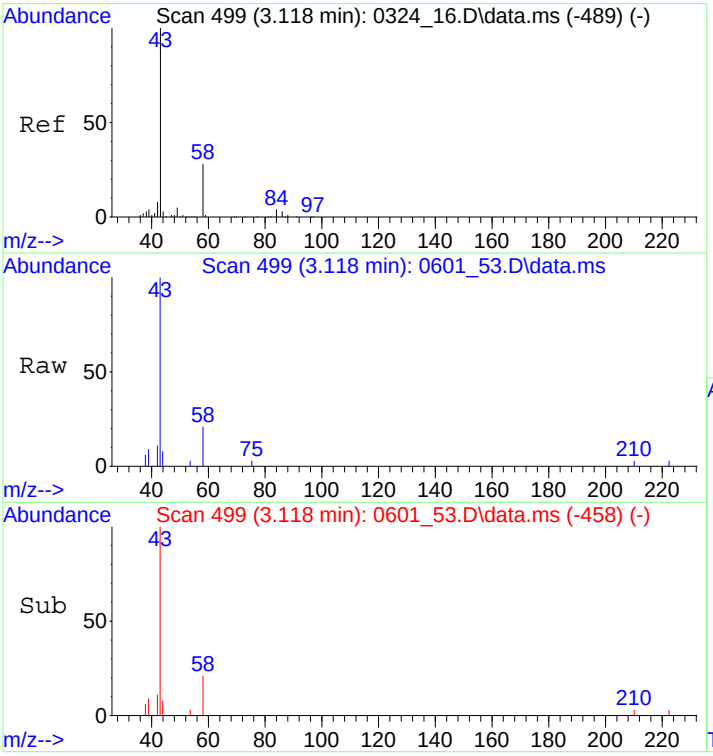
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 53.D
Acq On : 2 Jun 2015 5:19 am
Operator : 621
Sample : L767115-01 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 53 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:27:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

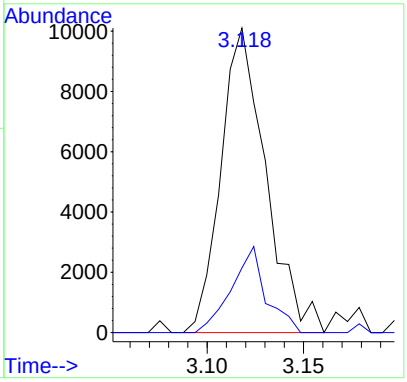


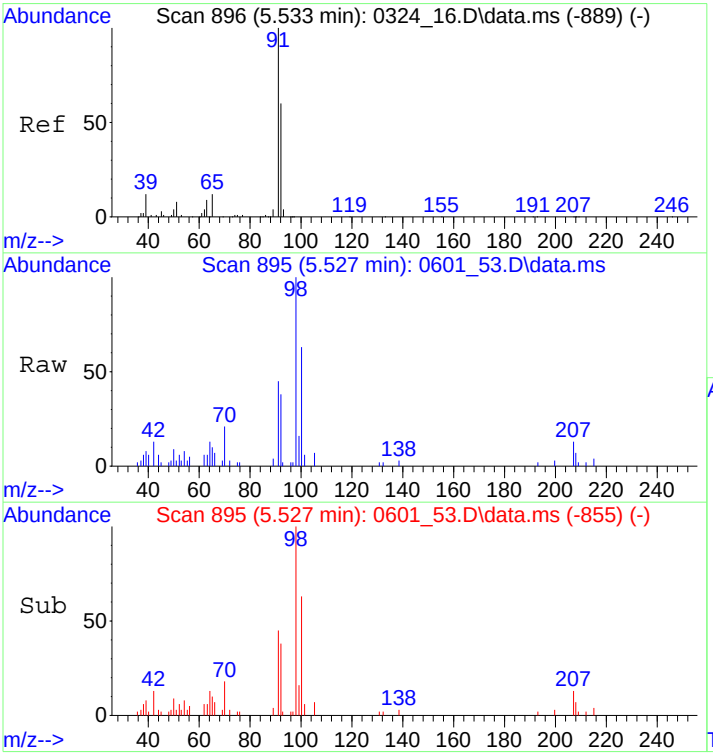


#16
ACETONE
Concen: 5.2390434 ppb
RT: 3.118 min Scan# 499
Delta R.T. 0.000 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion: 43 Resp: 16416

Ion	Ratio	Lower	Upper
43	100		
58	21.7	24.2	36.4#

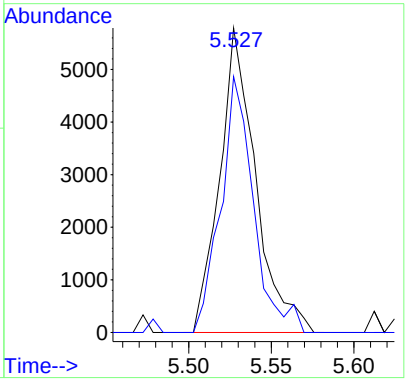


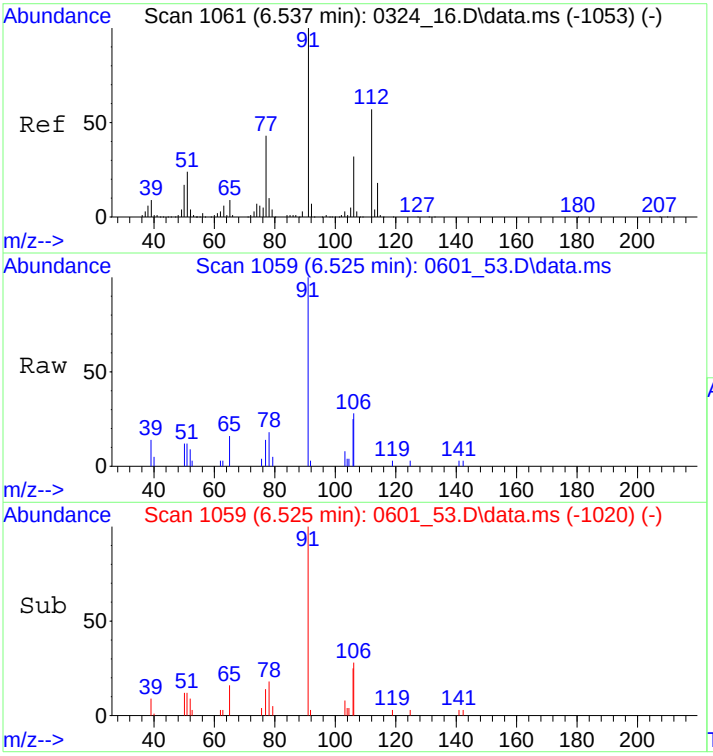


#51
TOLUENE
Concen: 0.4565372 ppb
RT: 5.527 min Scan# 895
Delta R.T. -0.006 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion: 91 Resp: 8760

Ion	Ratio	Lower	Upper
91	100		
92	76.5	48.5	72.7#

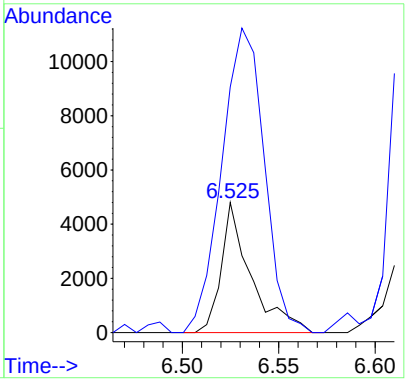


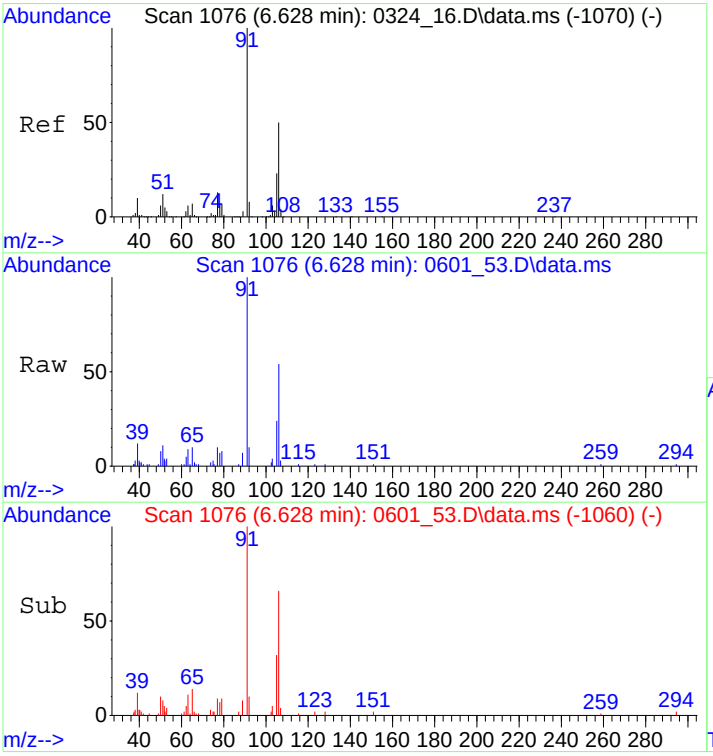


#62
ETHYLBENZENE
Concen: 0.7520573 ppb
RT: 6.525 min Scan# 1059
Delta R.T. -0.012 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:106 Resp: 5145

Ion	Ratio	Lower	Upper
106	100		
91	335.1	261.4	392.0

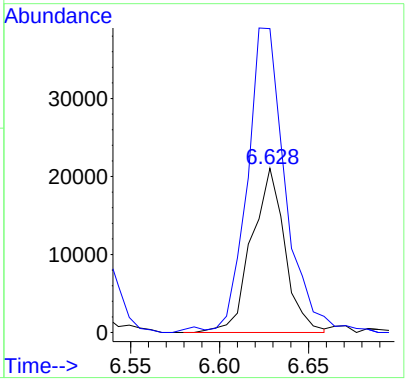


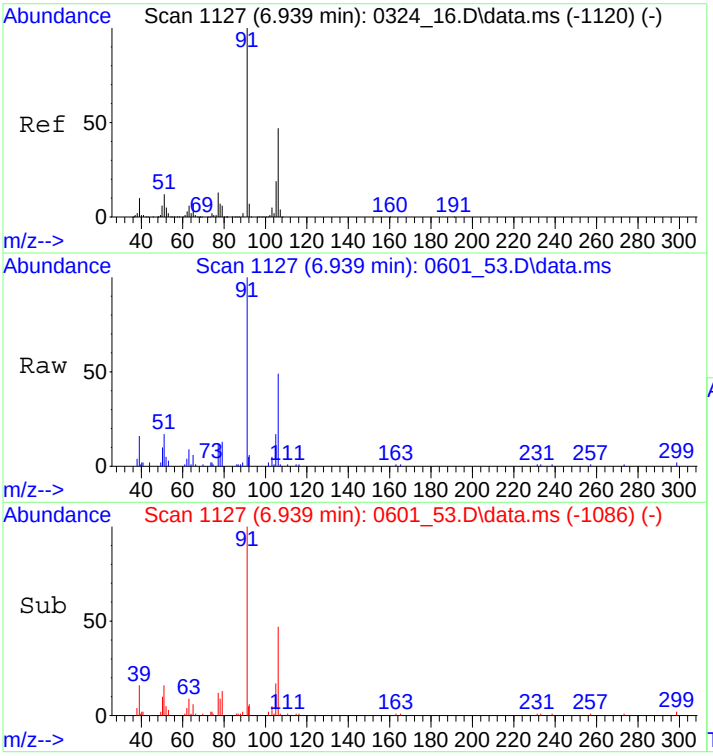


#63
M&P-XYLENE
Concen: 3.2010924 ppb
RT: 6.628 min Scan# 1076
Delta R.T. -0.000 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:106 Resp: 27400

Ion	Ratio	Lower	Upper
106	100		
91	214.8	162.8	244.2

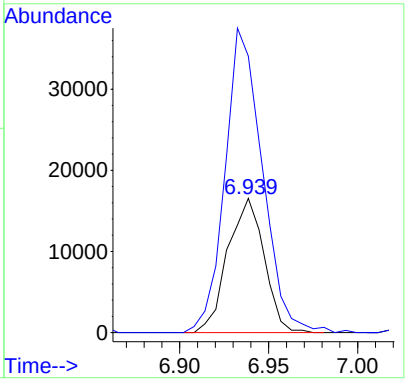


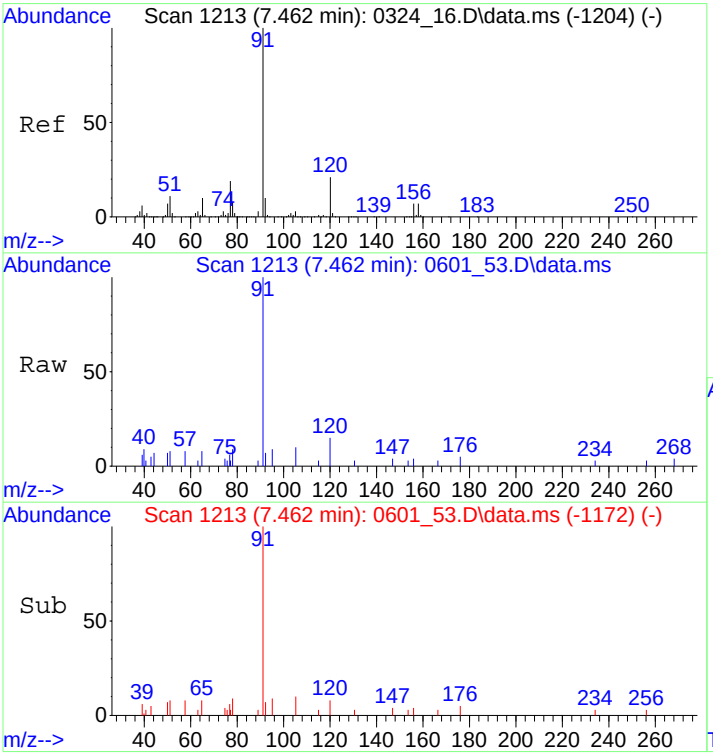


#64
O-XYLENE
Concen: 2.8538715 ppb
RT: 6.939 min Scan# 1127
Delta R.T. -0.000 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:106 Resp: 23547

Ion	Ratio	Lower	Upper
106	100		
91	232.7	175.5	263.3

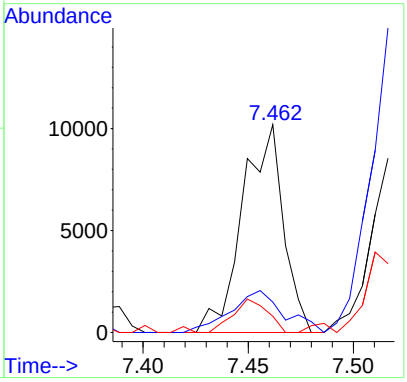


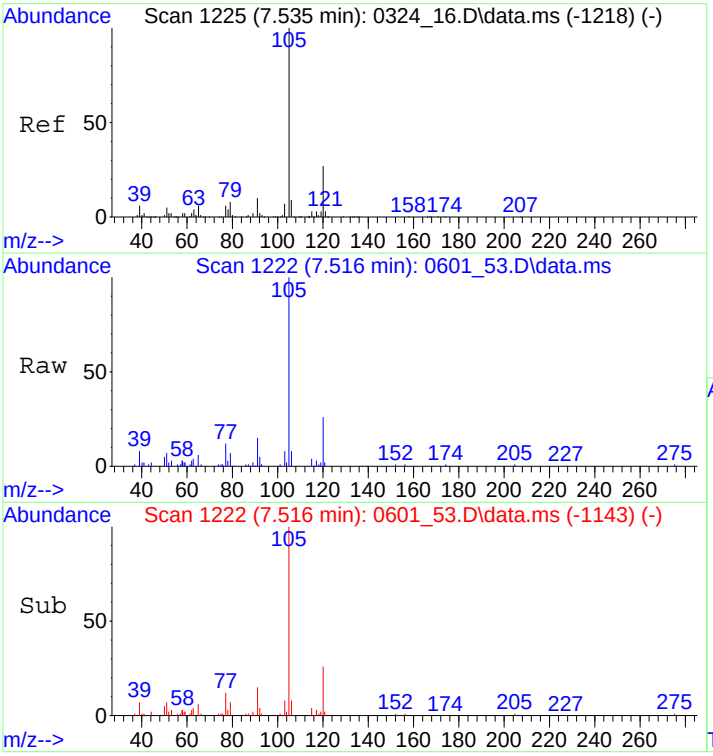


#73
n-Propylbenzene
Concen: 0.5236734 ppb
RT: 7.462 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion: 91 Resp: 13828

Ion	Ratio	Lower	Upper
91	100		
120	26.1	17.0	25.6#
65	13.5	9.3	13.9

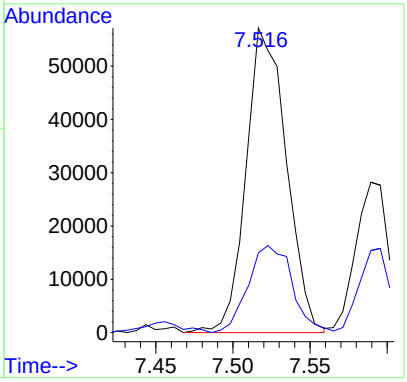


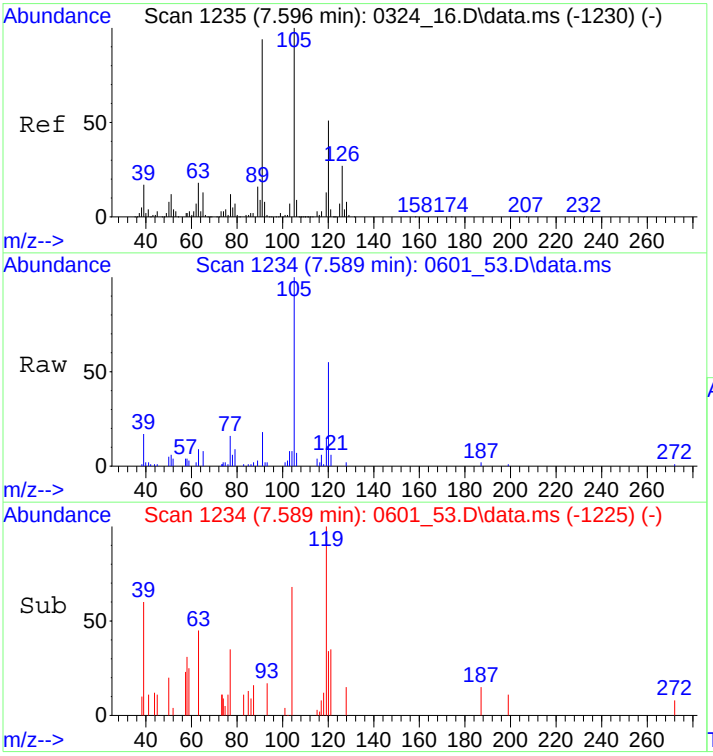


#74
4-ETHYLTOLUENE
Concen: 4.8227850 ppb
RT: 7.516 min Scan# 1222
Delta R.T. -0.018 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:105 Resp: 103758

Ion	Ratio	Lower	Upper
105	100		
120	31.2	21.8	32.8

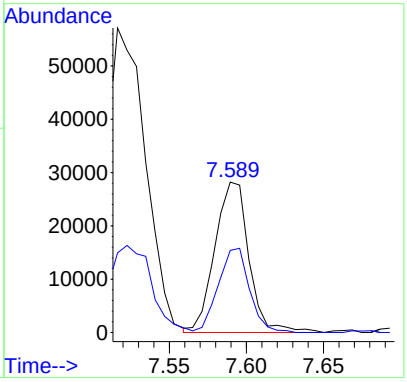


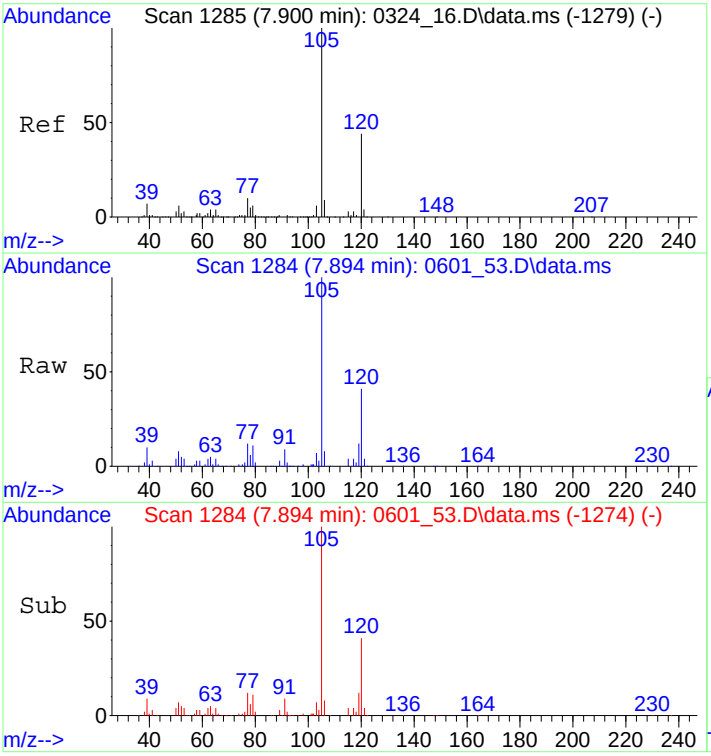


#77
1,3,5-Trimethylbenzene
Concen: 2.3548253 ppb
RT: 7.589 min Scan# 1234
Delta R.T. -0.006 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:105 Resp: 43455

Ion	Ratio	Lower	Upper
105	100		
120	51.2	39.0	58.6

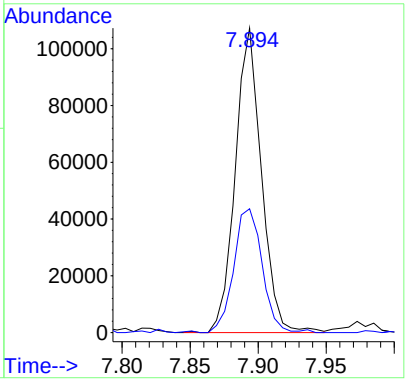


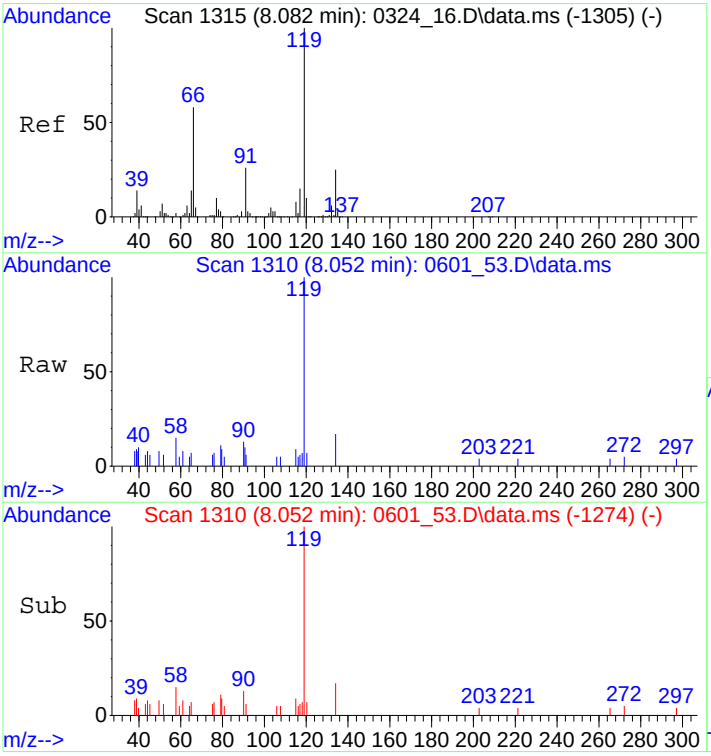


#79
1,2,4-Trimethylbenzene
Concen: 7.5128123 ppb
RT: 7.894 min Scan# 1284
Delta R.T. -0.006 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:105 Resp: 143657

Ion	Ratio	Lower	Upper
105	100		
120	44.2	35.5	53.3

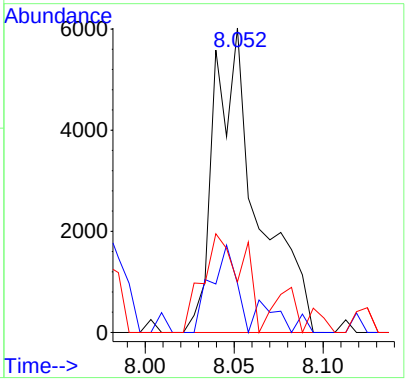


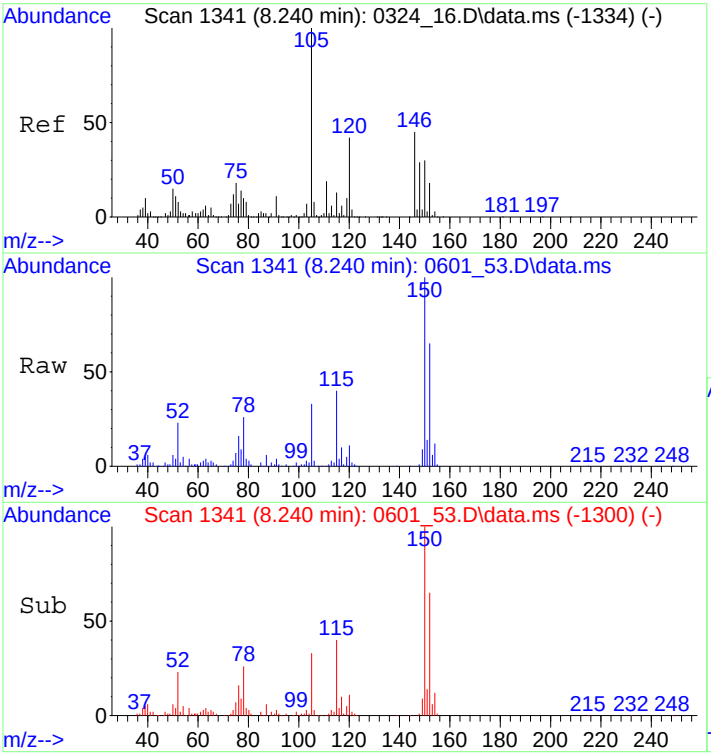


#82
p-Isopropyltoluene
Concen: 0.5110872 ppb
RT: 8.052 min Scan# 1310
Delta R.T. -0.031 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:119 Resp: 10258

Ion	Ratio	Lower	Upper
119	100		
91	16.7	24.3	36.5#
134	31.2	19.4	29.2#

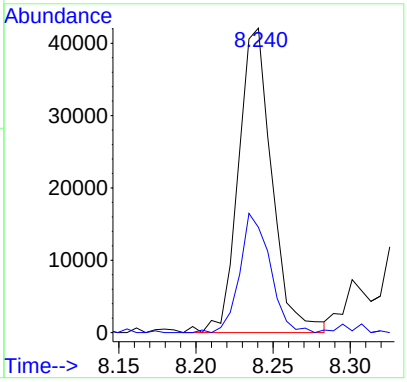


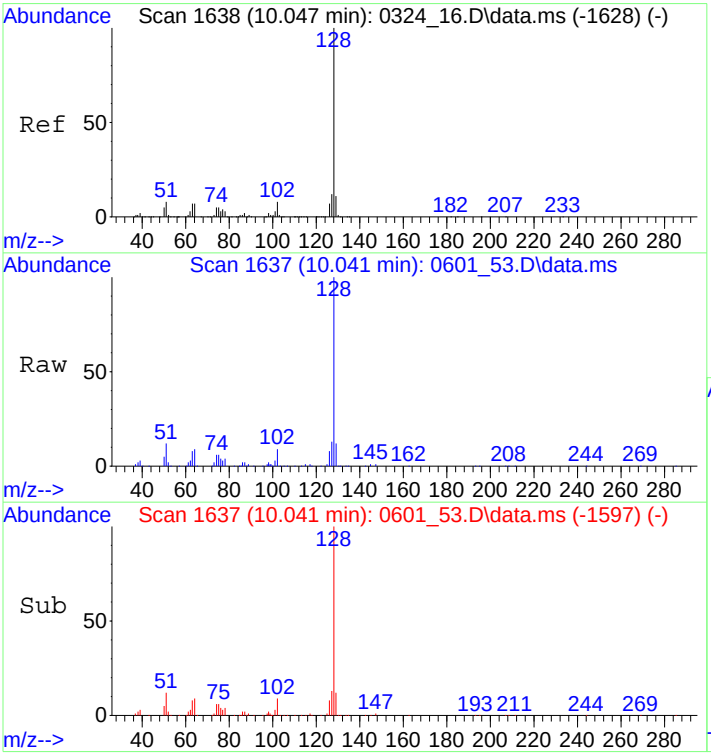


#86
1,2,3-TRIMETHYLBENZENE
Concen: 3.3513283 ppb
RT: 8.240 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:105 Resp: 63763

Ion	Ratio	Lower	Upper
105	100		
120	35.2	33.1	49.7

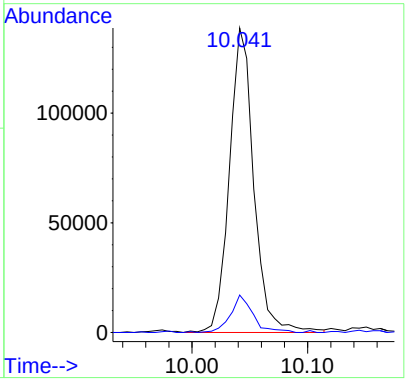


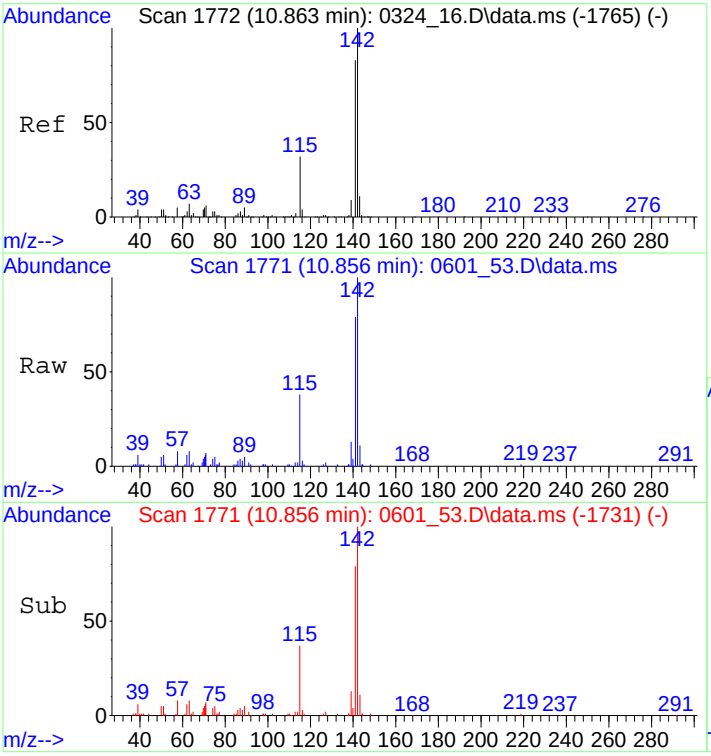


#92
Naphthalene
Concen: 11.4201589 ppb
RT: 10.041 min Scan# 1637
Delta R.T. -0.006 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:128 Resp: 203782

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.3	12.5

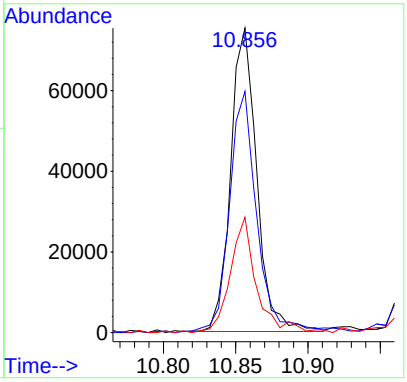


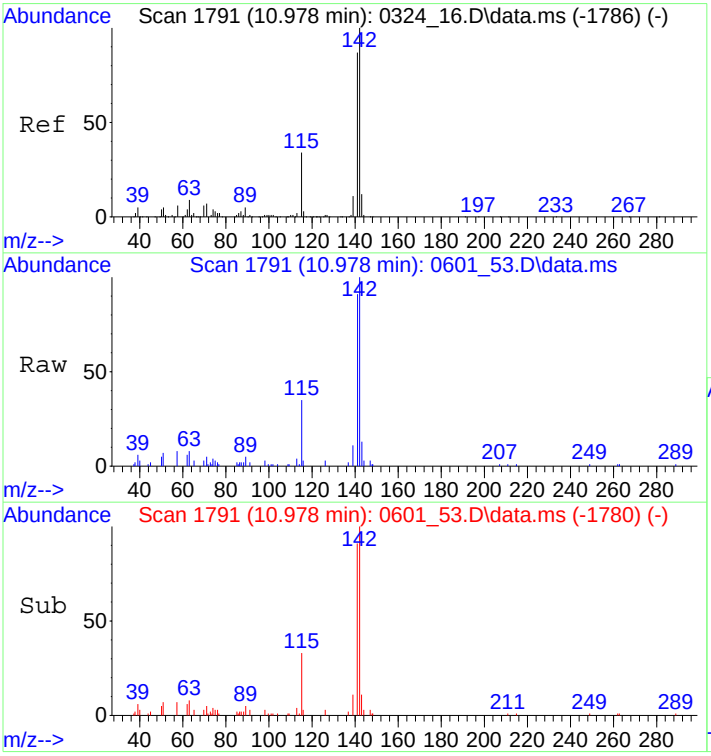


#94
1-Methylnaphthalene
Concen: 10.8251754 ppb
RT: 10.856 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 0601 53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:142 Resp: 94661

Ion	Ratio	Lower	Upper
142	100		
141	83.9	70.4	105.6
115	37.9	27.3	40.9

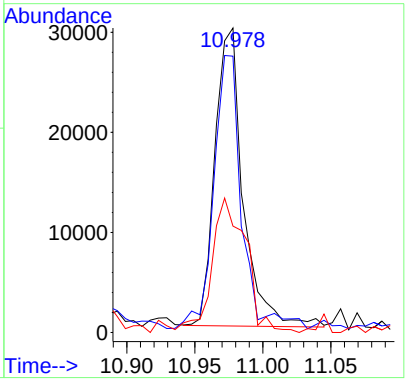




#95
2-Methylnaphthalene
Concen: 5.9605155 ppb
RT: 10.978 min Scan# 1791
Delta R.T. -0.000 min
Lab File: 0601_53.D
Acq: 2 Jun 2015 5:19 am

Tgt Ion:142 Resp: 42961

Ion	Ratio	Lower	Upper
142	100		
141	86.7	73.8	110.8
115	54.4	30.4	45.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 54.D
Acq On : 2 Jun 2015 5:39 am
Operator : 621
Sample : L767115-02 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 54 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:29:49 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

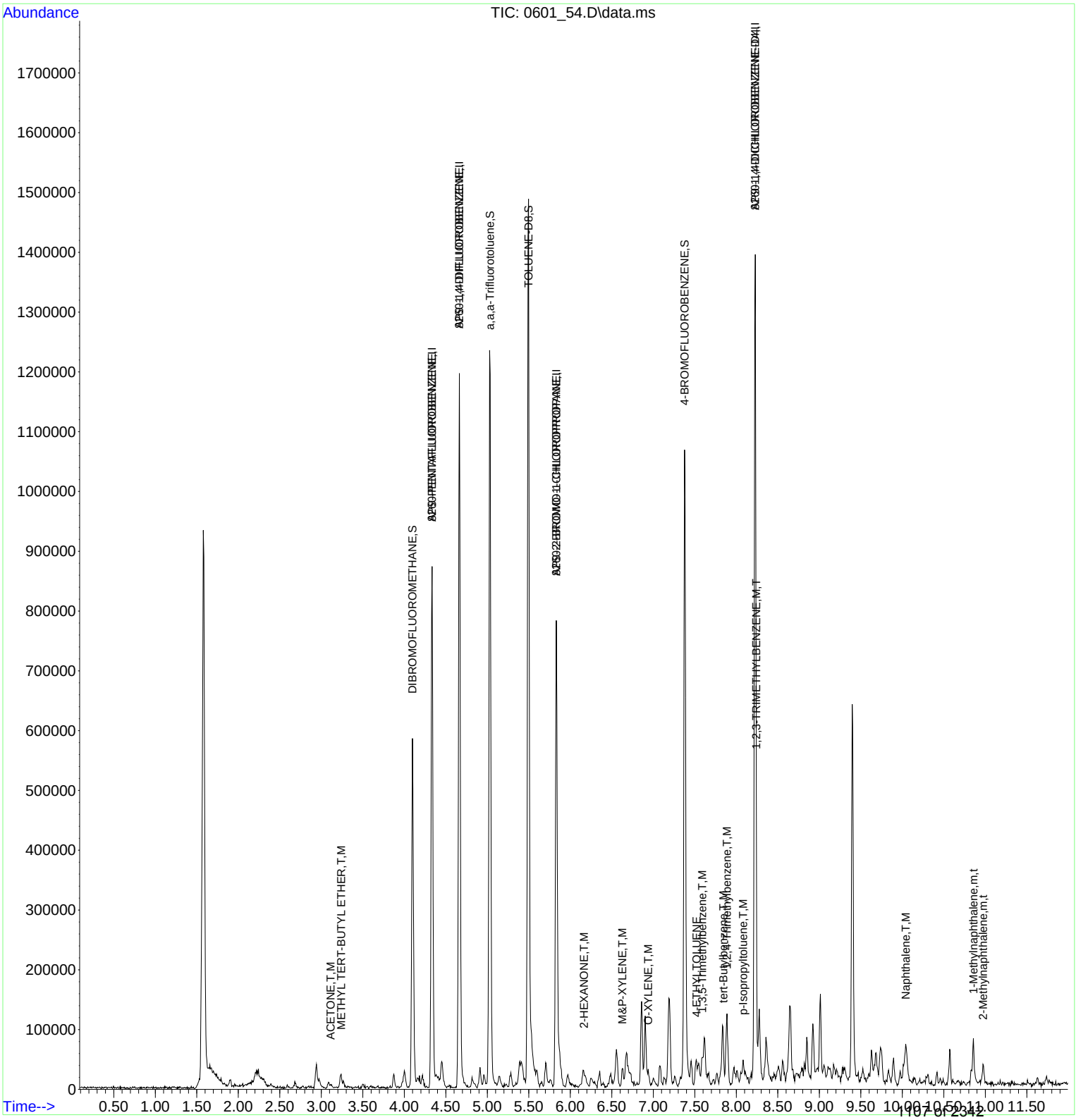
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	407011	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	662378	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	113621	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	293365	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	407011	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	662378	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	113621	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	293365	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	217411	43.9922584 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.98%		
46) a,a,a-Trifluorotoluene	5.034	146	362151	41.2907832 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.23%		
50) TOLUENE-D8	5.497	98	802420	42.8504816 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.13%		
68) 4-BROMOFLUOROBENZENE	7.377	95	314061	43.1554425 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 107.89%		
Target Compounds					Qvalue
9) CHLOROETHANE	2.266	66	562	Below Cal	# 1
16) ACETONE	3.112	43	6440	2.0875654 ppb	# 82
23) METHYL TERT-BUTYL ETHER	3.240	73	16540	1.1539526 ppb	# 56
57) 2-HEXANONE	6.166	58	9064	4.1860703 ppb	90
63) M&P-XYLENE	6.628	106	4193	0.5238470 ppb	95
64) O-XYLENE	6.939	106	3966	0.5140241 ppb	99
74) 4-ETHYLTOLUENE	7.523	105	15493	0.7700941 ppb	# 86
77) 1,3,5-Trimethylbenzene	7.590	105	6896	0.3996209 ppb	92
78) tert-Butylbenzene	7.845	119	9632	0.6667794 ppb	# 92
79) 1,2,4-Trimethylbenzene	7.888	105	22180	1.2404214 ppb	89
82) p-Isopropyltoluene	8.082	119	10000	0.5328001 ppb	95
86) 1,2,3-TRIMETHYLBENZENE	8.241	105	11678	0.7050652 ppb	96
92) Naphthalene	10.041	128	37394	2.4072480 ppb	# 83
94) 1-Methylnaphthalene	10.856	142	22844	3.0008797 ppb	# 89
95) 2-Methylnaphthalene	10.972	142	12289	1.9585676 ppb	90

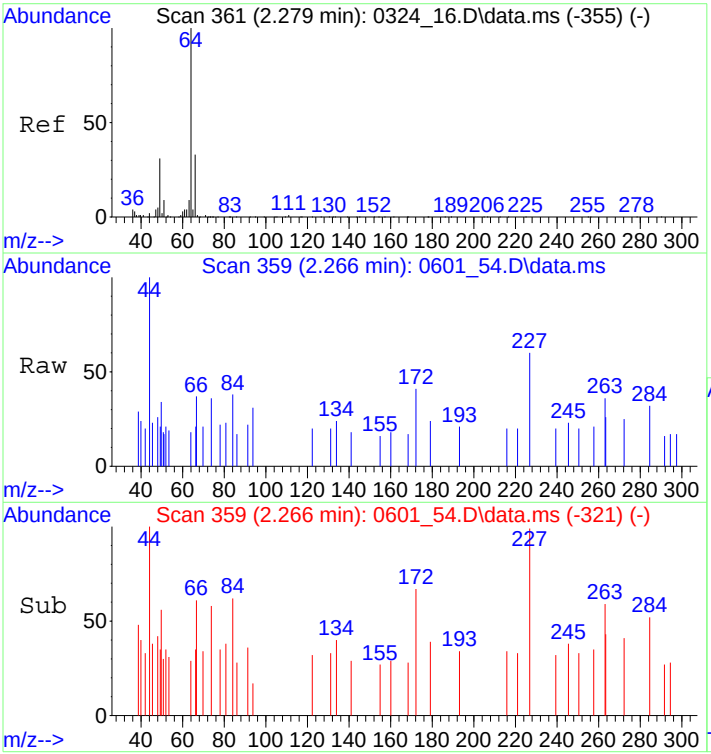
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 54.D
Acq On : 2 Jun 2015 5:39 am
Operator : 621
Sample : L767115-02 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 54 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:29:49 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

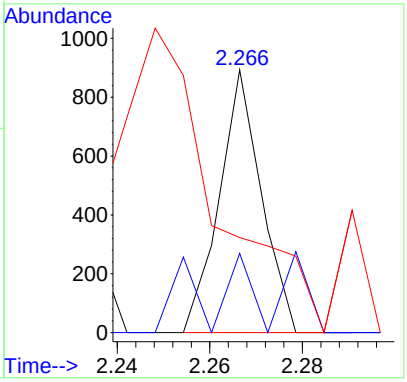


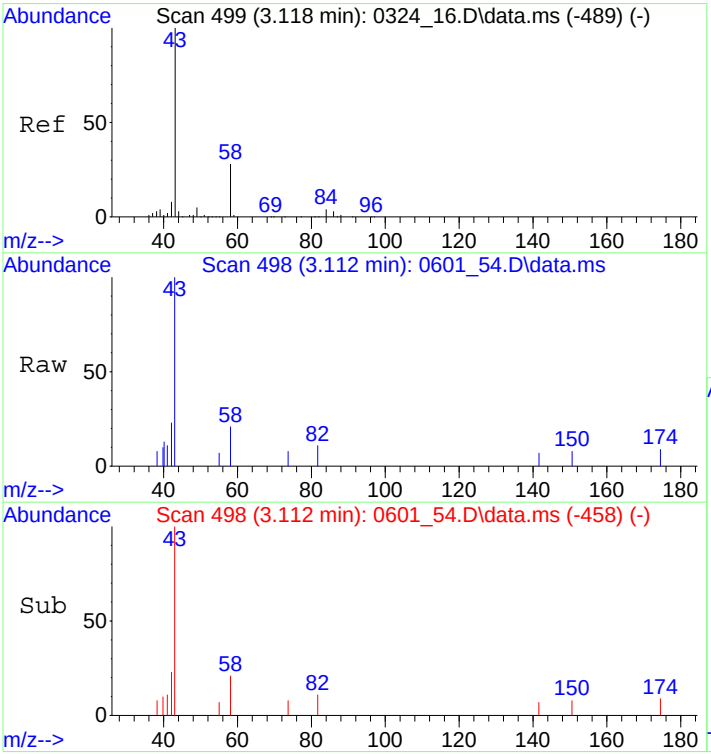


#9
CHLOROETHANE
Concen: Below Cal
RT: 2.266 min Scan# 359
Delta R.T. -0.018 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion: 66 Resp: 562

Ion	Ratio	Lower	Upper
66	100		
64	0.0	255.8	383.6#
49	204.6	81.0	121.4#

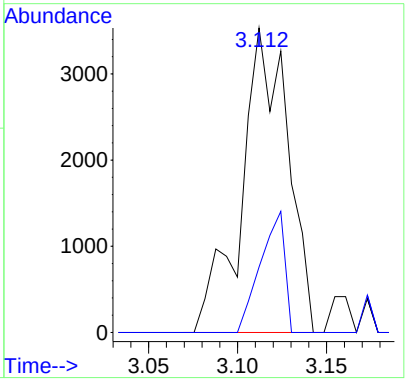


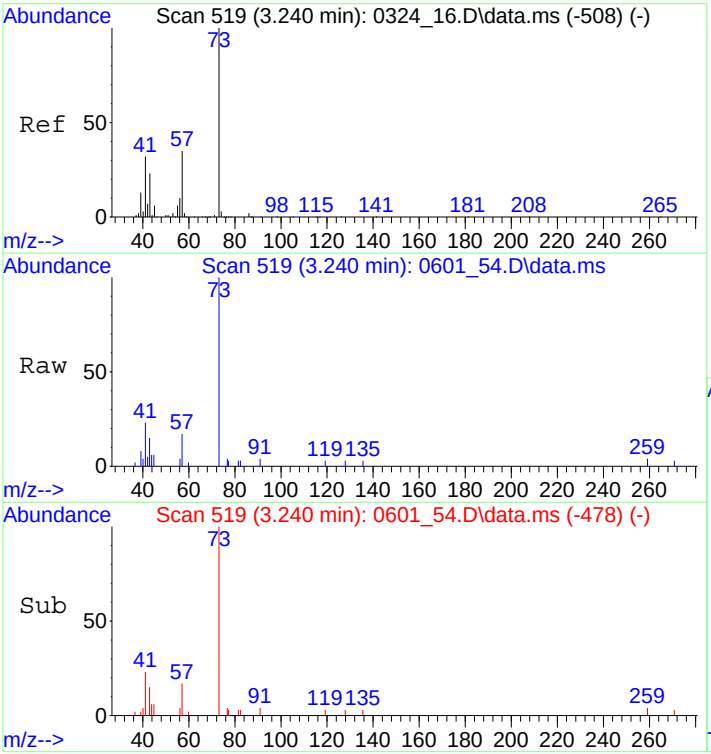


#16
ACETONE
Concen: 2.0875654 ppb
RT: 3.112 min Scan# 498
Delta R.T. -0.006 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion: 43 Resp: 6440

Ion	Ratio	Lower	Upper
43	100		
58	20.7	24.2	36.4#

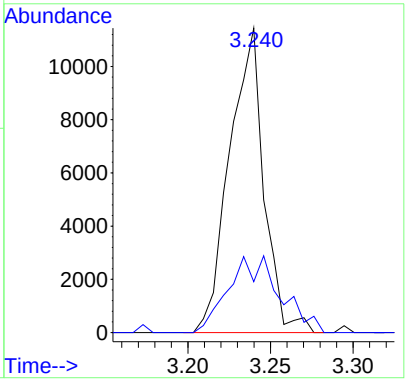


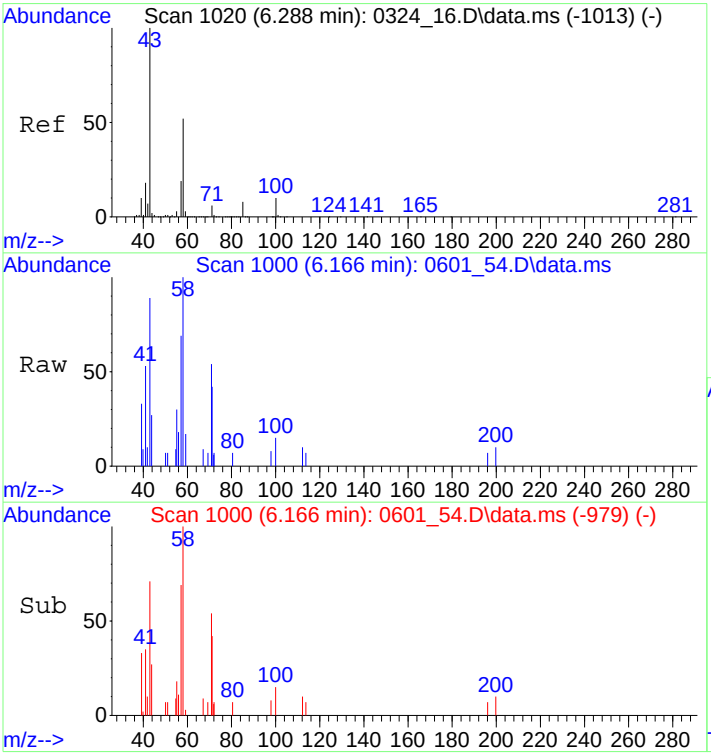


#23
METHYL TERT-BUTYL ETHER
Concen: 1.1539526 ppb
RT: 3.240 min Scan# 519
Delta R.T. -0.000 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion: 73 Resp: 16540

Ion	Ratio	Lower	Upper
73	100		
57	37.6	59.9	89.9#

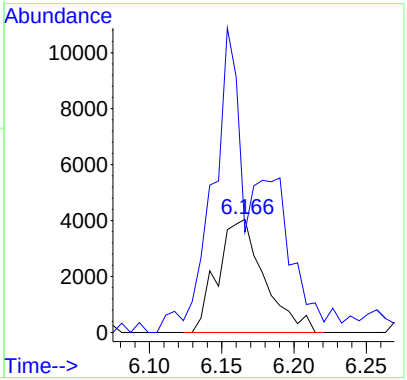


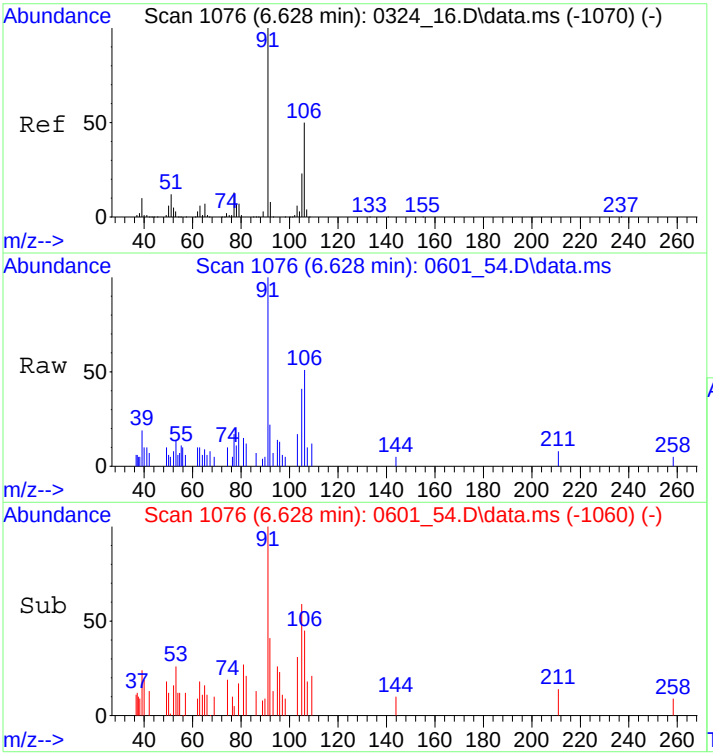


#57
2-HEXANONE
Concen: 4.1860703 ppb
RT: 6.166 min Scan# 1000
Delta R.T. -0.122 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion: 58 Resp: 9064

Ion	Ratio	Lower	Upper
58	100		
43	181.6	157.8	236.6

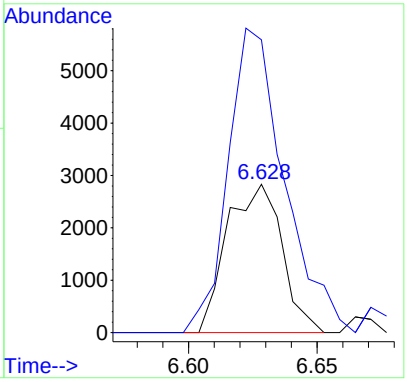


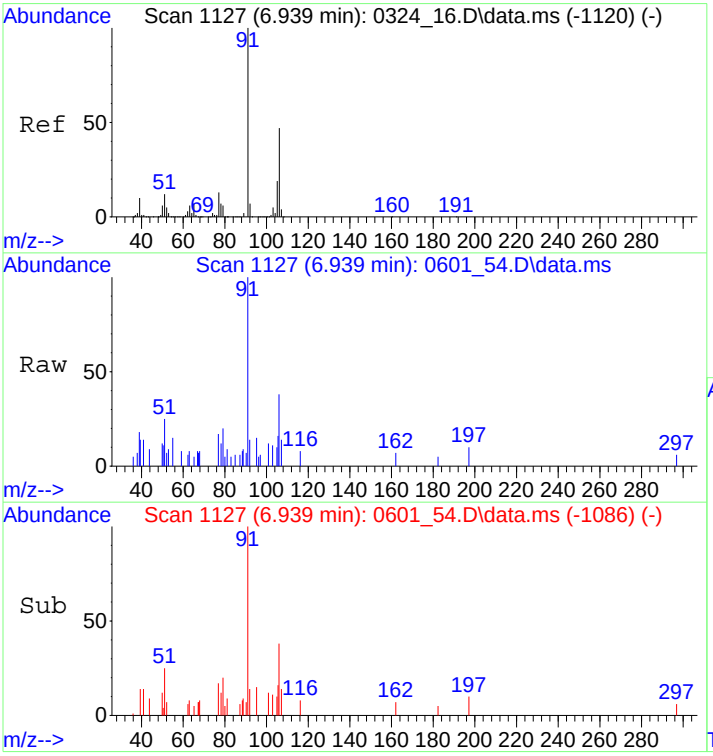


#63
M&P-XYLENE
Concen: 0.5238470 ppb
RT: 6.628 min Scan# 1076
Delta R.T. -0.000 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:106 Resp: 4193

Ion	Ratio	Lower	Upper
106	100		
91	211.5	162.8	244.2

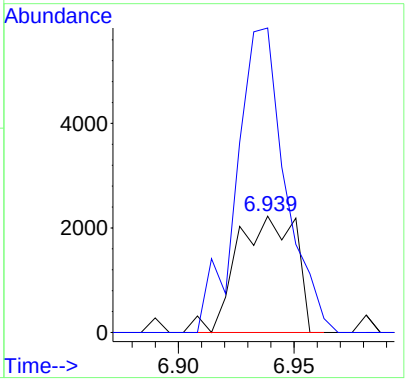


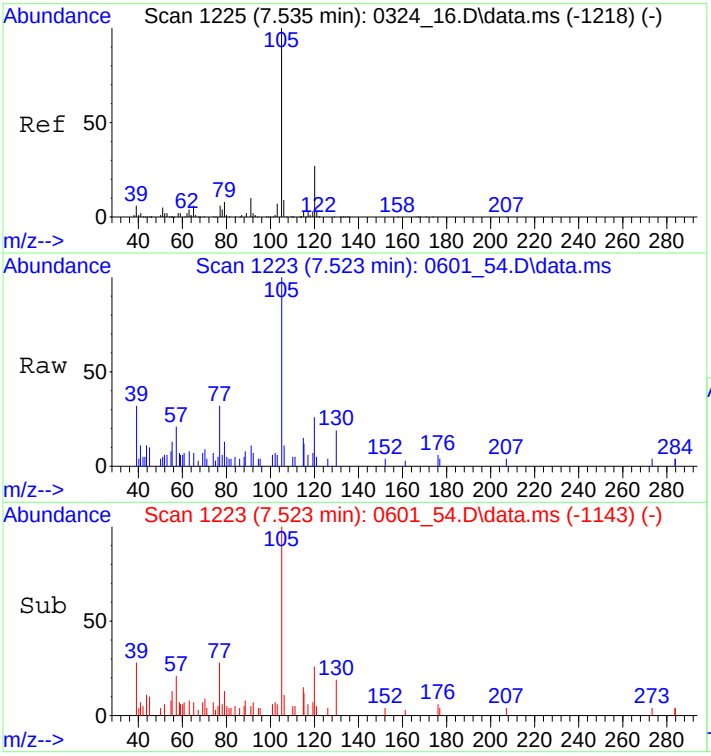


#64
O-XYLENE
Concen: 0.5140241 ppb
RT: 6.939 min Scan# 1127
Delta R.T. -0.000 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:106 Resp: 3966

Ion	Ratio	Lower	Upper
106	100		
91	217.3	175.5	263.3

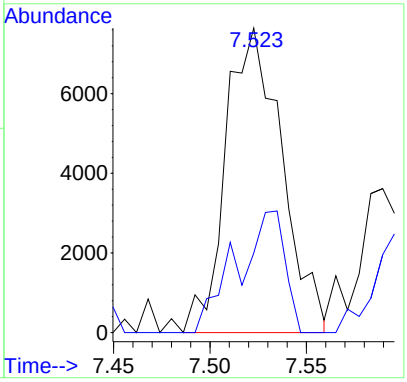


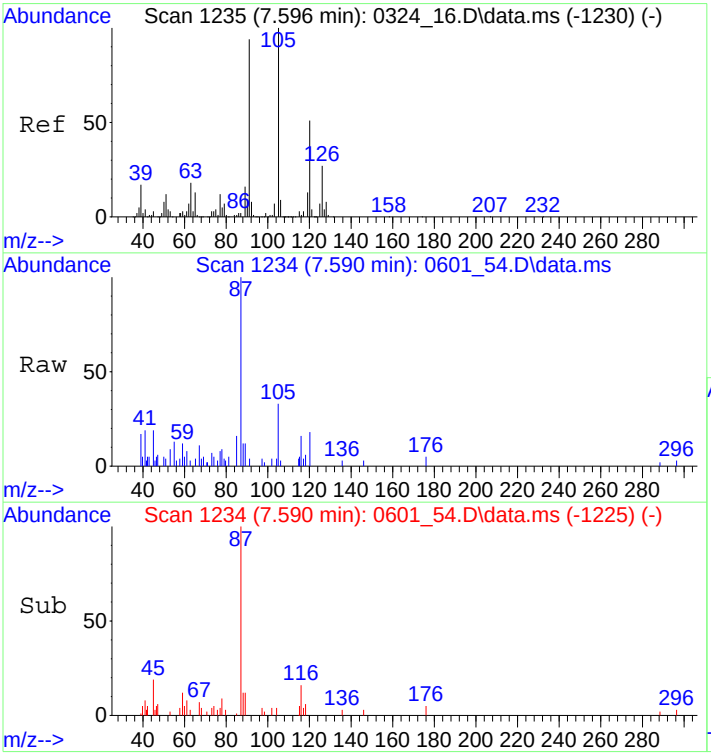


#74
4-ETHYLTOLUENE
Concen: 0.7700941 ppb
RT: 7.523 min Scan# 1223
Delta R.T. -0.012 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:105 Resp: 15493

Ion	Ratio	Lower	Upper
105	100		
120	34.4	21.8	32.8#

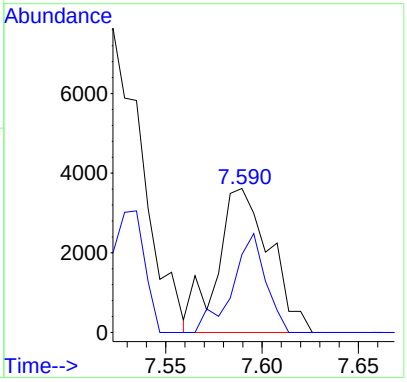


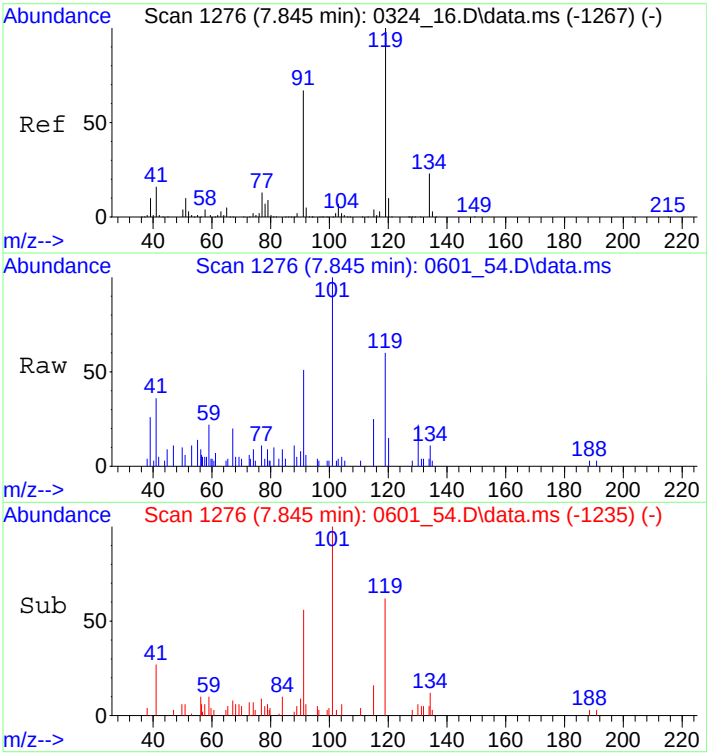


#77
1,3,5-Trimethylbenzene
Concen: 0.3996209 ppb
RT: 7.590 min Scan# 1234
Delta R.T. -0.006 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:105 Resp: 6896

Ion	Ratio	Lower	Upper
105	100		
120	43.1	39.0	58.6

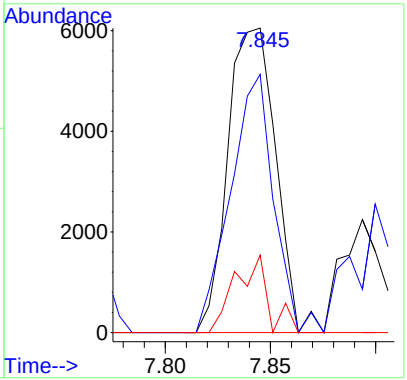


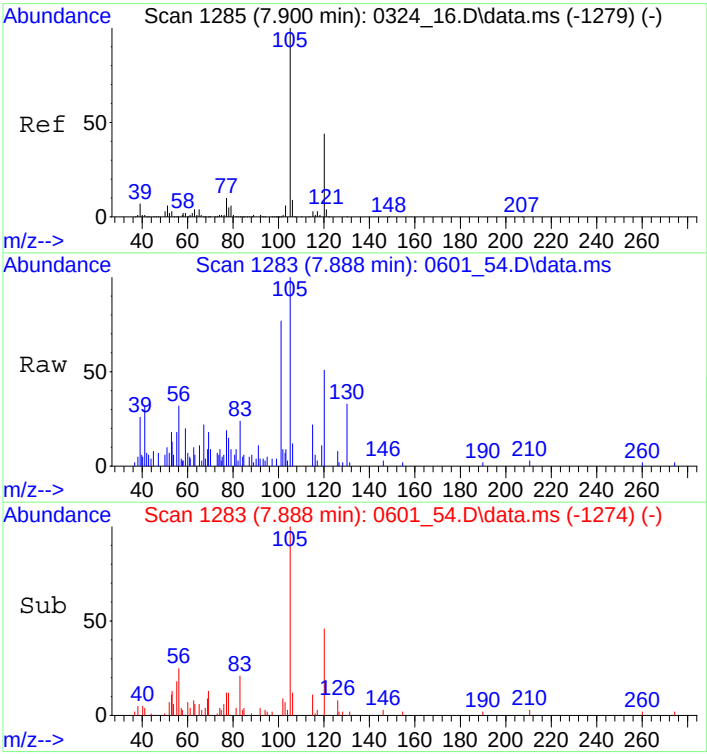


#78
tert-Butylbenzene
Concen: 0.6667794 ppb
RT: 7.845 min Scan# 1276
Delta R.T. -0.000 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:119 Resp: 9632

Ion	Ratio	Lower	Upper
119	100		
91	76.3	56.2	84.4
134	17.7	18.7	28.1#

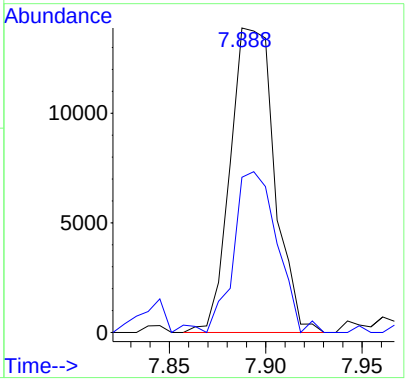


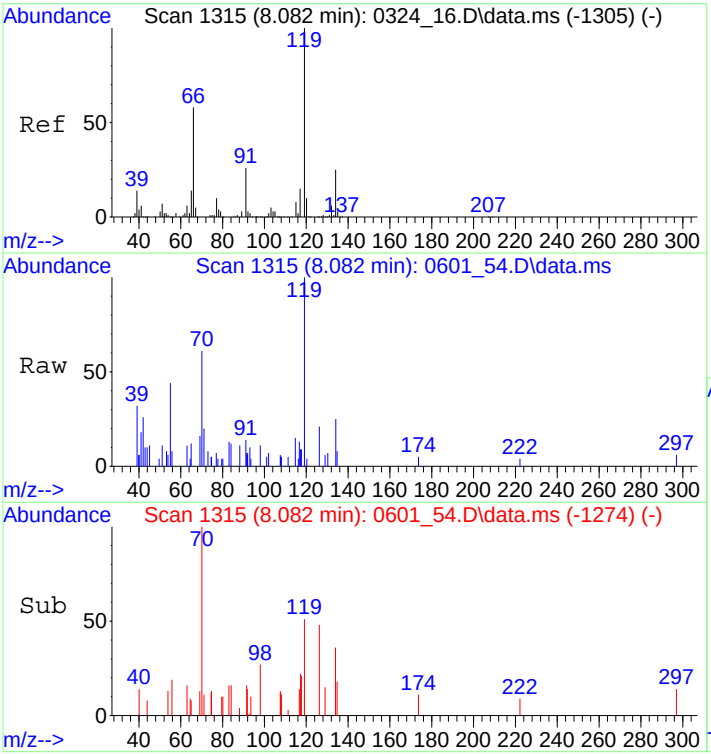


#79
1,2,4-Trimethylbenzene
Concen: 1.2404214 ppb
RT: 7.888 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:105 Resp: 22180

Ion	Ratio	Lower	Upper
105	100		
120	51.8	35.5	53.3

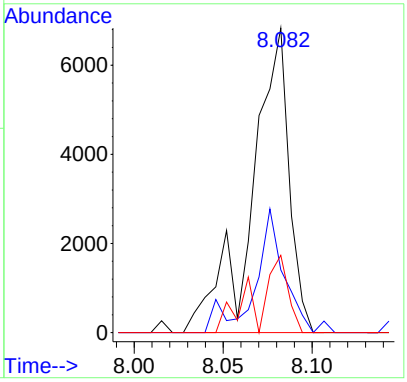


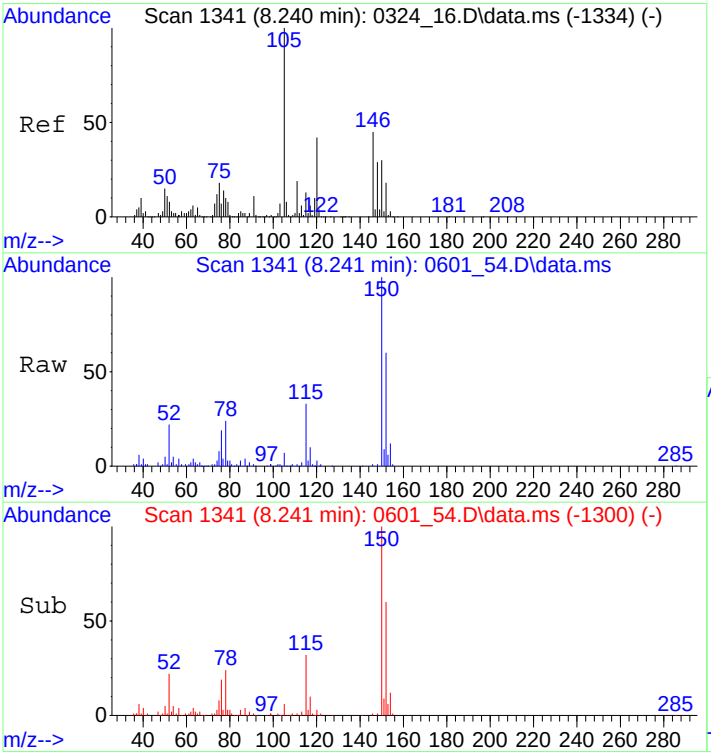


#82
p-Isopropyltoluene
Concen: 0.5328001 ppb
RT: 8.082 min Scan# 1315
Delta R.T. -0.000 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:119 Resp: 10000

Ion	Ratio	Lower	Upper
119	100		
91	28.5	24.3	36.5
134	21.4	19.4	29.2

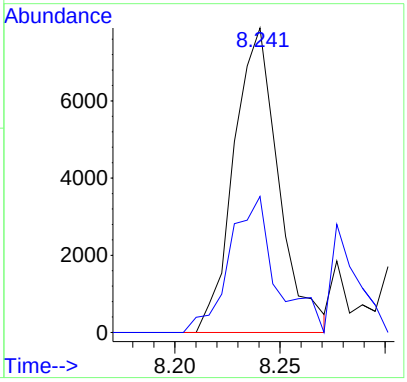


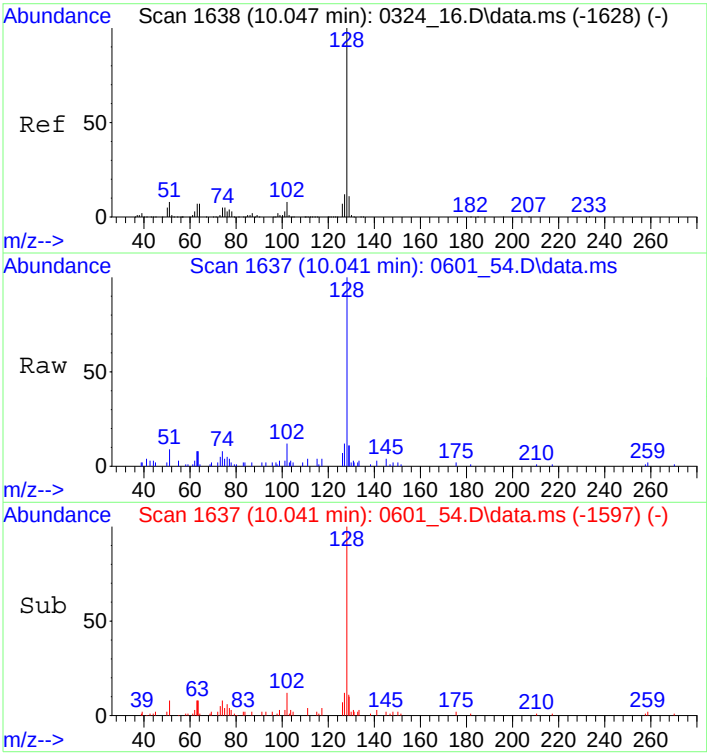


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.7050652 ppb
RT: 8.241 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:105 Resp: 11678

Ion	Ratio	Lower	Upper
105	100		
120	43.8	33.1	49.7

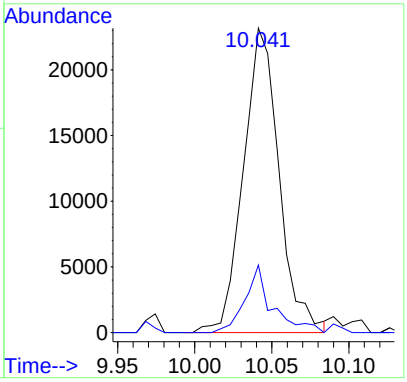


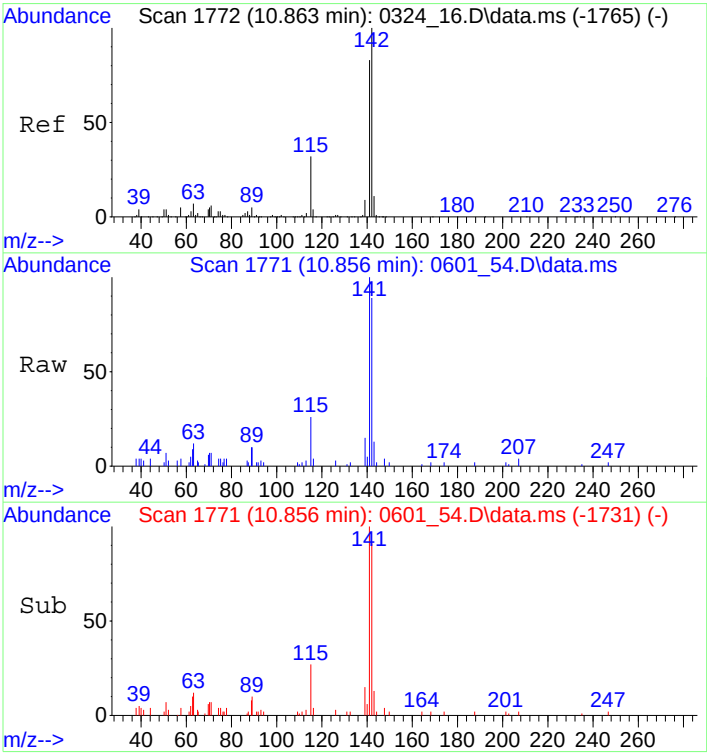


#92
Naphthalene
Concen: 2.4072480 ppb
RT: 10.041 min Scan# 1637
Delta R.T. -0.006 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:128 Resp: 37394

Ion	Ratio	Lower	Upper
128	100		
129	16.8	8.3	12.5#

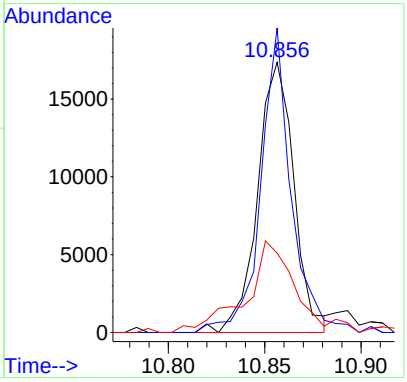


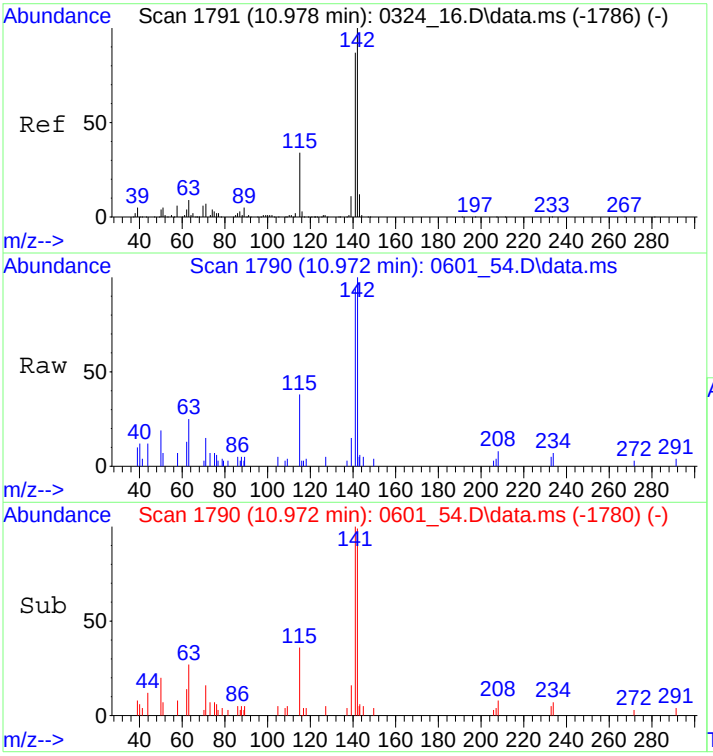


#94
1-Methylnaphthalene
Concen: 3.0008797 ppb
RT: 10.856 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 0601_54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:142 Resp: 22844

Ion	Ratio	Lower	Upper
142	100		
141	94.9	70.4	105.6
115	45.9	27.3	40.9#

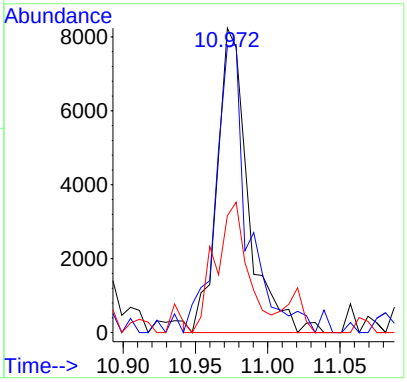




#95
2-Methylnaphthalene
Concen: 1.9585676 ppb
RT: 10.972 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 0601 54.D
Acq: 2 Jun 2015 5:39 am

Tgt Ion:142 Resp: 12289

Ion	Ratio	Lower	Upper
142	100		
141	101.0	73.8	110.8
115	44.9	30.4	45.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 55.D
Acq On : 2 Jun 2015 5:58 am
Operator : 621
Sample : L767115-05 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 55 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:32:14 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

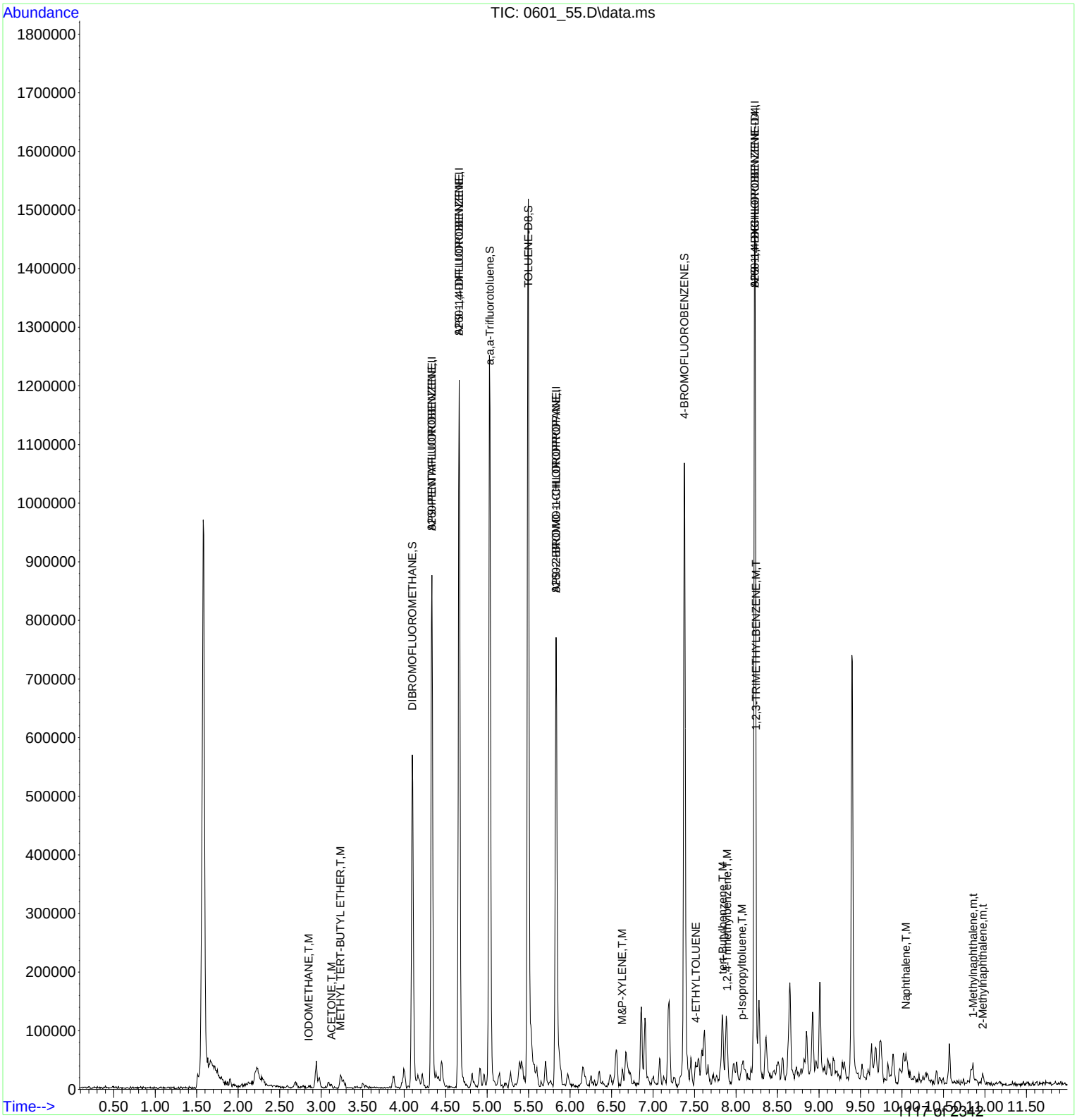
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	418311	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	672968	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.831	79	119968	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	320664	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	418311	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	672968	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.831	79	119968	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	320664	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	216504	42.6253080 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.56%		
46) a,a,a-Trifluorotoluene	5.034	146	363816	40.8278690 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.07%		
50) TOLUENE-D8	5.497	98	803993	42.2588540 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.65%		
68) 4-BROMOFLUOROBENZENE	7.377	95	312906	40.7219573 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.80%		
Target Compounds					Qvalue
16) ACETONE	3.124	43	6652	2.0980379 ppb #	85
17) IODOMETHANE	2.850	142	1909	0.3466099 ppb #	82
23) METHYL TERT-BUTYL ETHER	3.234	73	17424	1.1827887 ppb #	36
63) M&P-XYLENE	6.628	106	4152	0.4912812 ppb	74
74) 4-ETHYLTOLUENE	7.516	105	9060	0.4265104 ppb #	74
78) tert-Butylbenzene	7.839	119	11238	0.7367971 ppb	97
79) 1,2,4-Trimethylbenzene	7.894	105	13214	0.6998987 ppb #	84
82) p-Isopropyltoluene	8.070	119	7972	0.4022766 ppb #	88
86) 1,2,3-TRIMETHYLBENZENE	8.240	105	7792	0.4303956 ppb #	82
92) Naphthalene	10.047	128	20823	1.2263666 ppb #	76
94) 1-Methylnaphthalene	10.856	142	11090	1.3328034 ppb #	89
95) 2-Methylnaphthalene	10.972	142	5817	0.8481627 ppb #	76

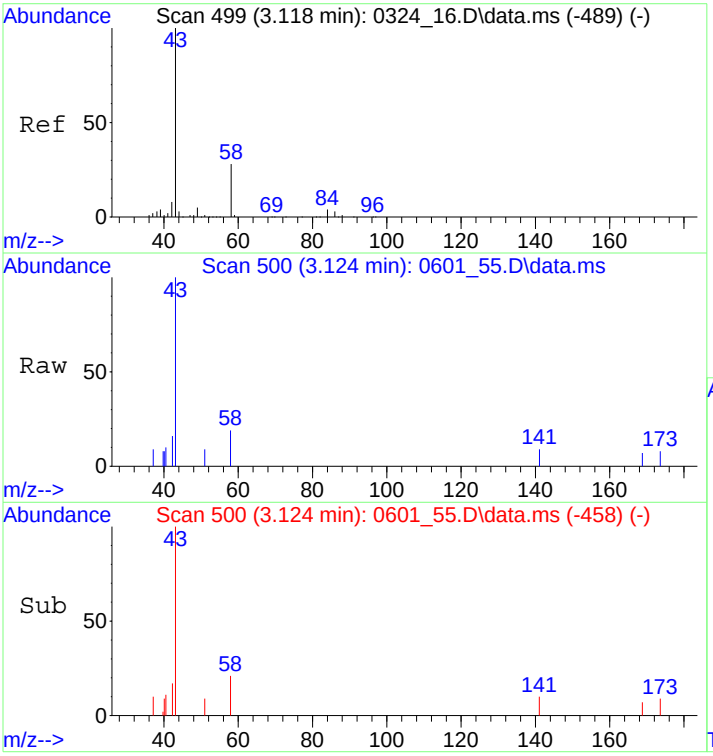
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060115\
Data File : 0601 55.D
Acq On : 2 Jun 2015 5:58 am
Operator : 621
Sample : L767115-05 1x WG791367 V8260
Misc : water IS/SURR15A20860
ALS Vial : 55 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 20 10:32:14 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

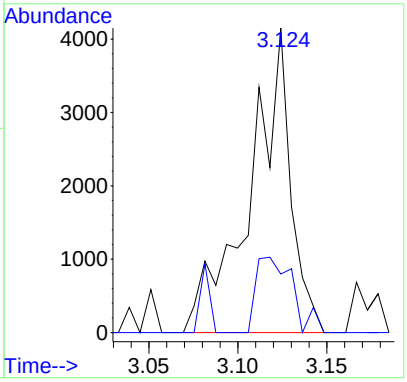


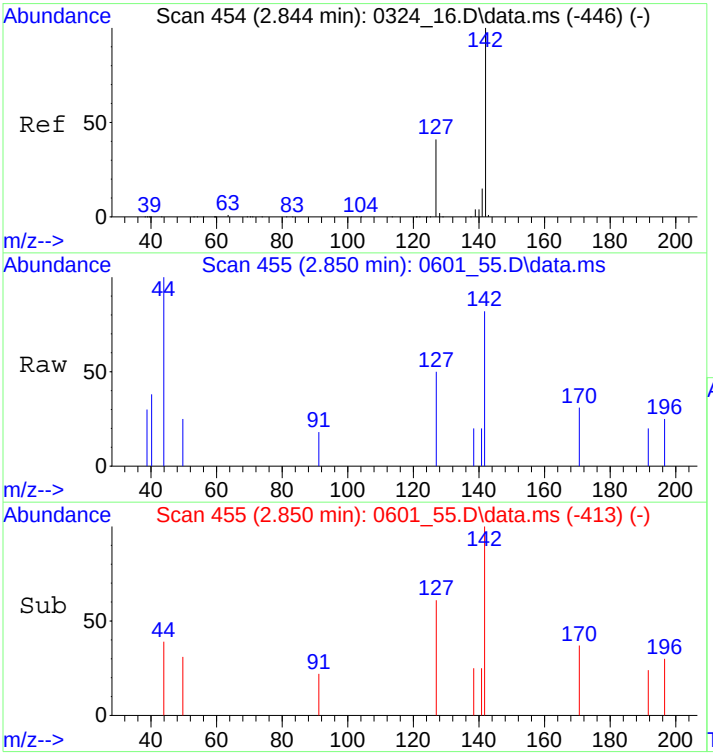


#16
ACETONE
Concen: 2.0980379 ppb
RT: 3.124 min Scan# 500
Delta R.T. 0.006 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion: 43 Resp: 6652

Ion	Ratio	Lower	Upper
43	100		
58	22.2	24.2	36.4#

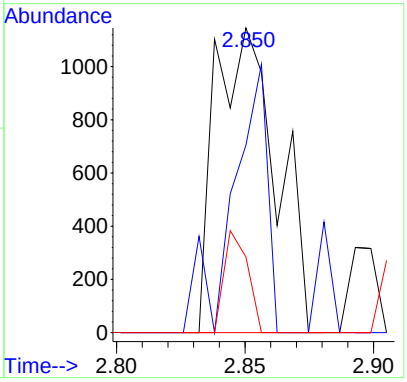


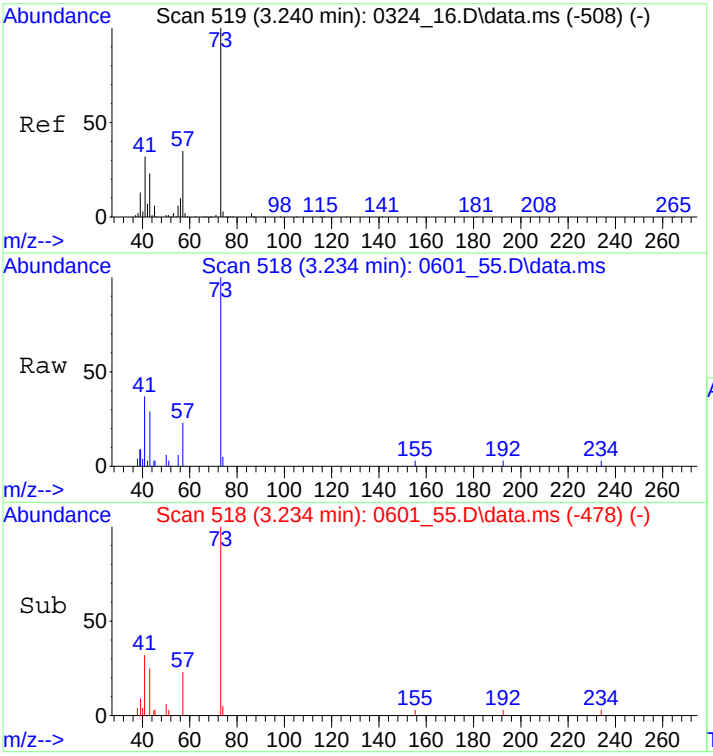


#17
IODOMETHANE
Concen: 0.3466099 ppb
RT: 2.850 min Scan# 455
Delta R.T. 0.006 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:142 Resp: 1909

Ion	Ratio	Lower	Upper
142	100		
127	49.7	33.7	50.5
141	0.0	11.8	17.6#

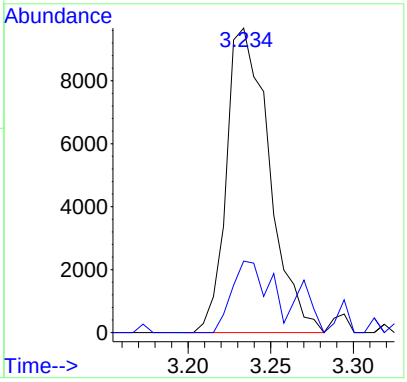


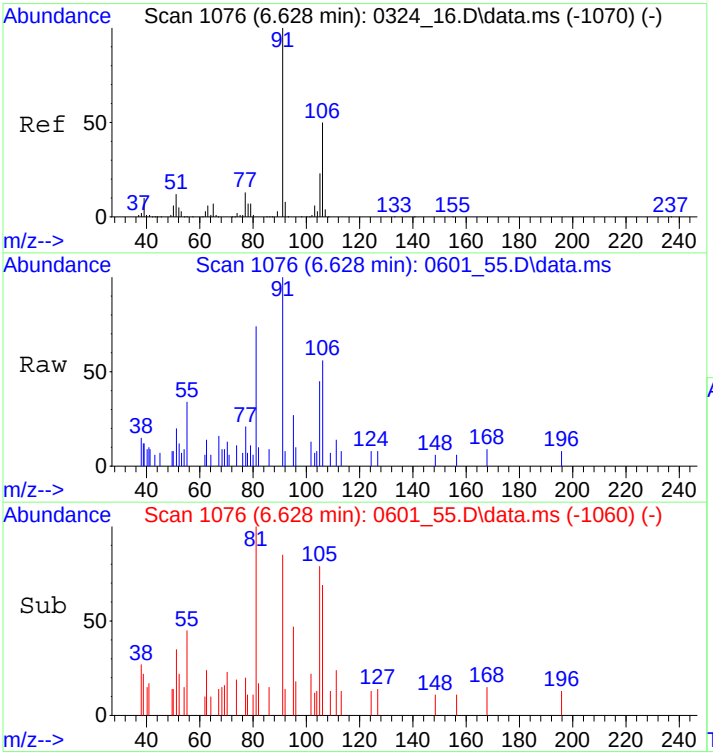


#23
METHYL TERT-BUTYL ETHER
Concen: 1.1827887 ppb
RT: 3.234 min Scan# 518
Delta R.T. -0.006 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion: 73 Resp: 17424

Ion	Ratio	Lower	Upper
73	100		
57	20.7	59.9	89.9#

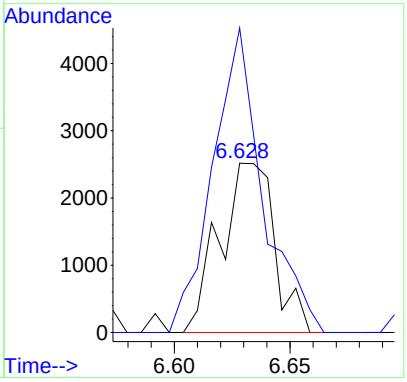


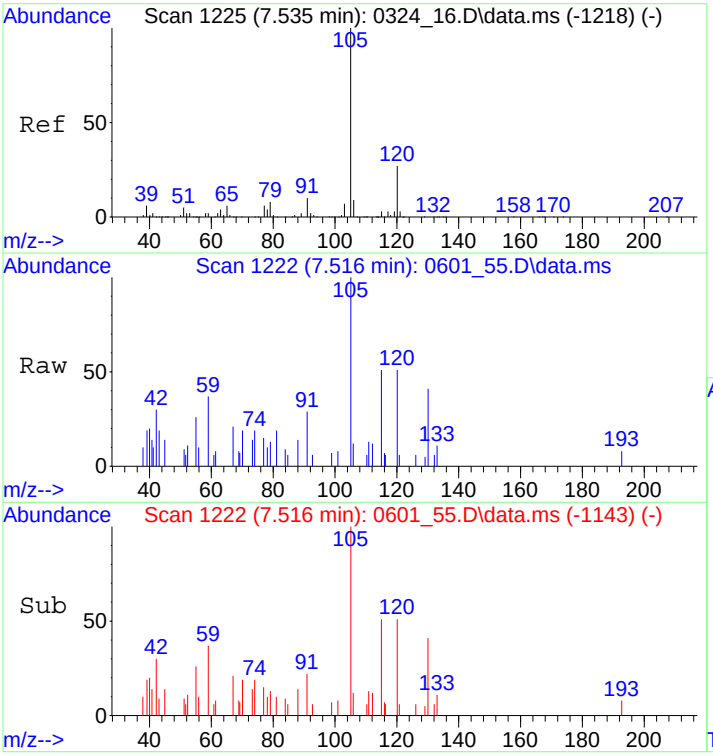


#63
M&P-XYLENE
Concen: 0.4912812 ppb
RT: 6.628 min Scan# 1076
Delta R.T. -0.000 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:106 Resp: 4152

Ion	Ratio	Lower	Upper
106	100		
91	163.7	162.8	244.2

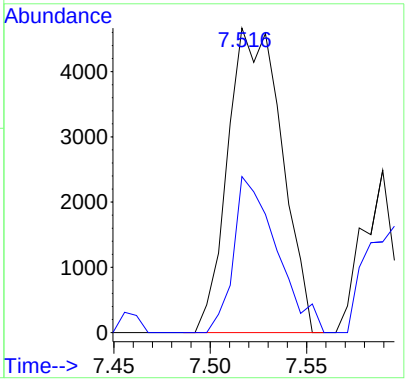


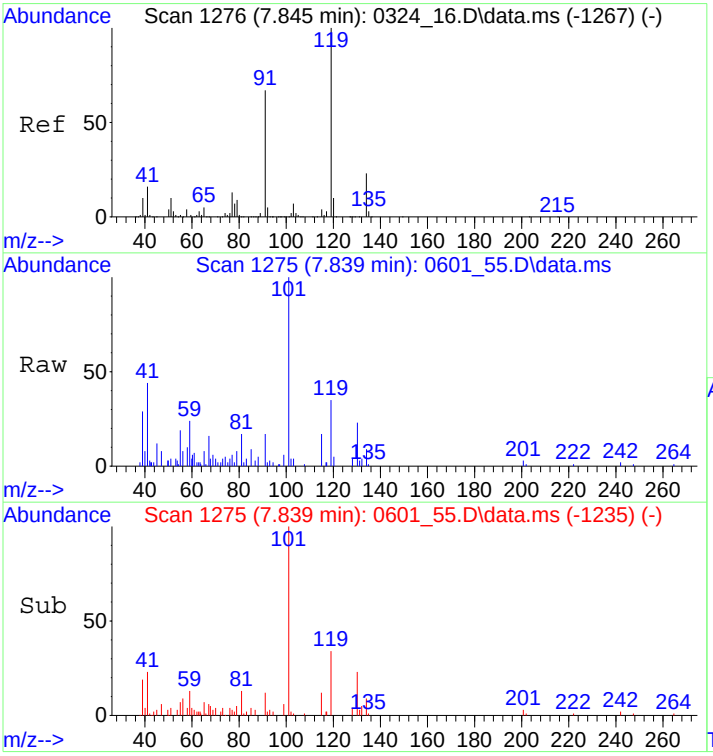


#74
4-ETHYLTOLUENE
Concen: 0.4265104 ppb
RT: 7.516 min Scan# 1222
Delta R.T. -0.018 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:105 Resp: 9060

Ion	Ratio	Lower	Upper
105	100		
120	41.0	21.8	32.8#

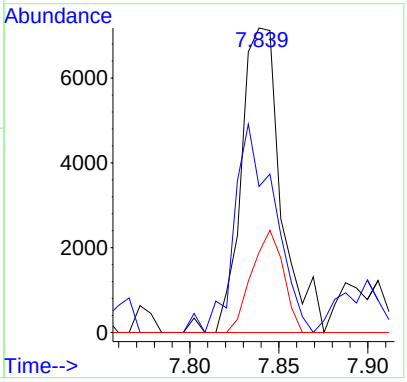


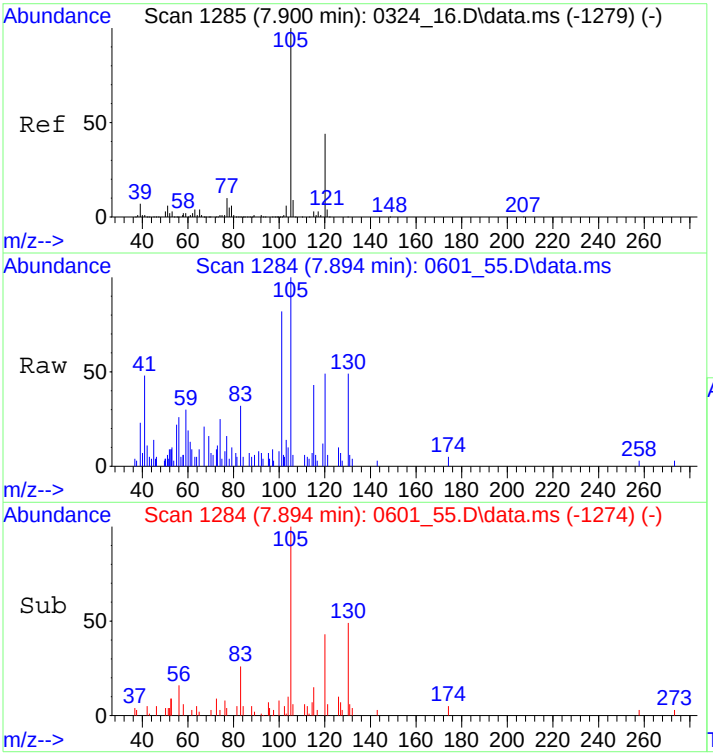


#78
tert-Butylbenzene
Concen: 0.7367971 ppb
RT: 7.839 min Scan# 1275
Delta R.T. -0.006 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:119 Resp: 11238

Ion	Ratio	Lower	Upper
119	100		
91	69.1	56.2	84.4
134	26.5	18.7	28.1

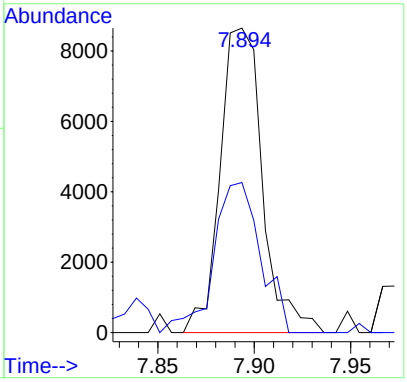


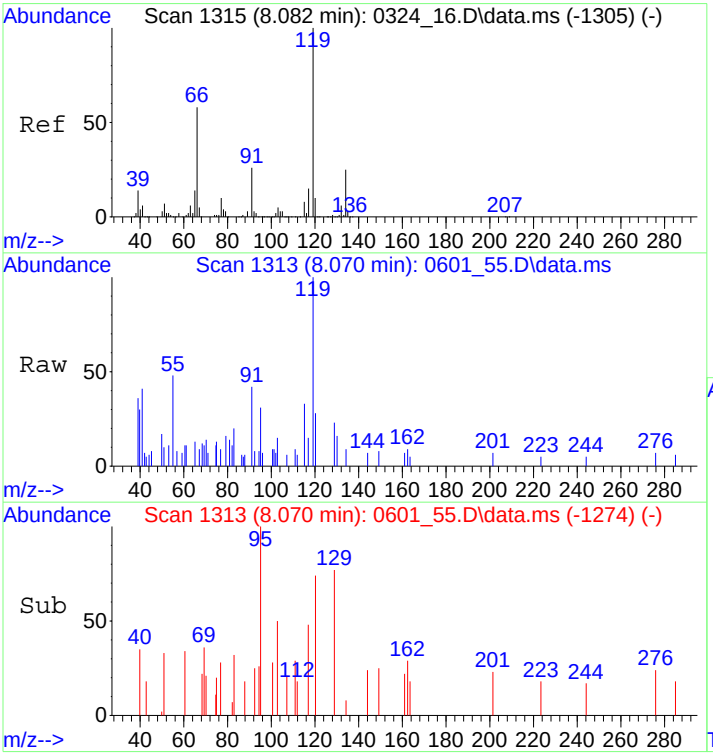


#79
1,2,4-Trimethylbenzene
Concen: 0.6998987 ppb
RT: 7.894 min Scan# 1284
Delta R.T. -0.006 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:105 Resp: 13214

Ion	Ratio	Lower	Upper
105	100		
120	54.6	35.5	53.3#

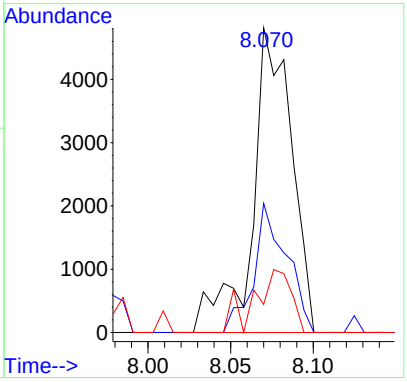


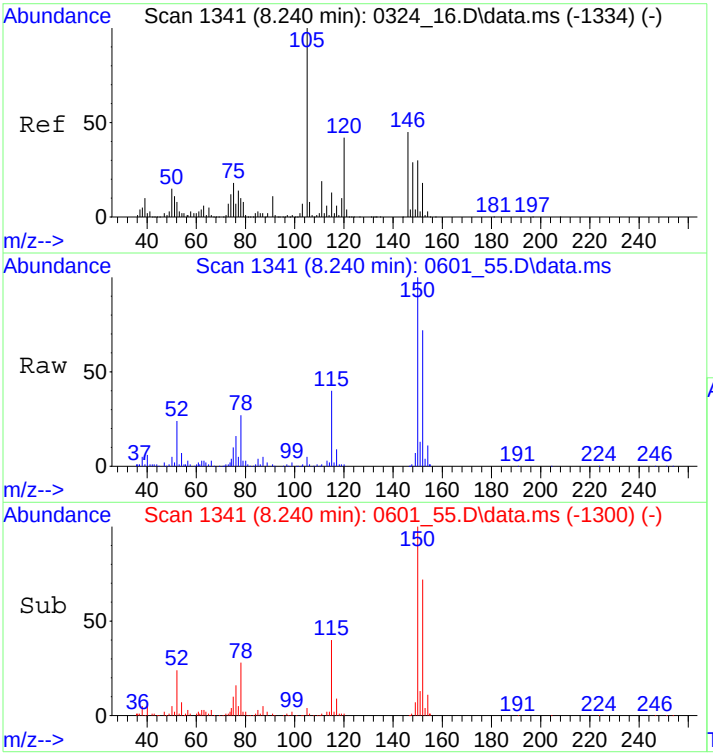


#82
p-Isopropyltoluene
Concen: 0.4022766 ppb
RT: 8.070 min Scan# 1313
Delta R.T. -0.012 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:119 Resp: 7972

Ion	Ratio	Lower	Upper
119	100		
91	35.4	24.3	36.5
134	16.4	19.4	29.2#

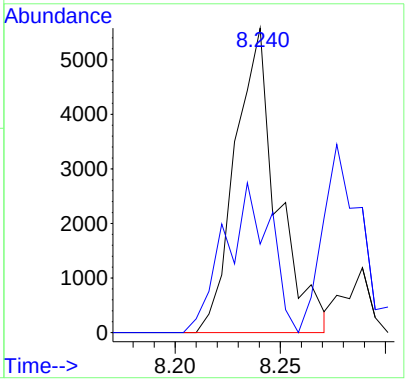


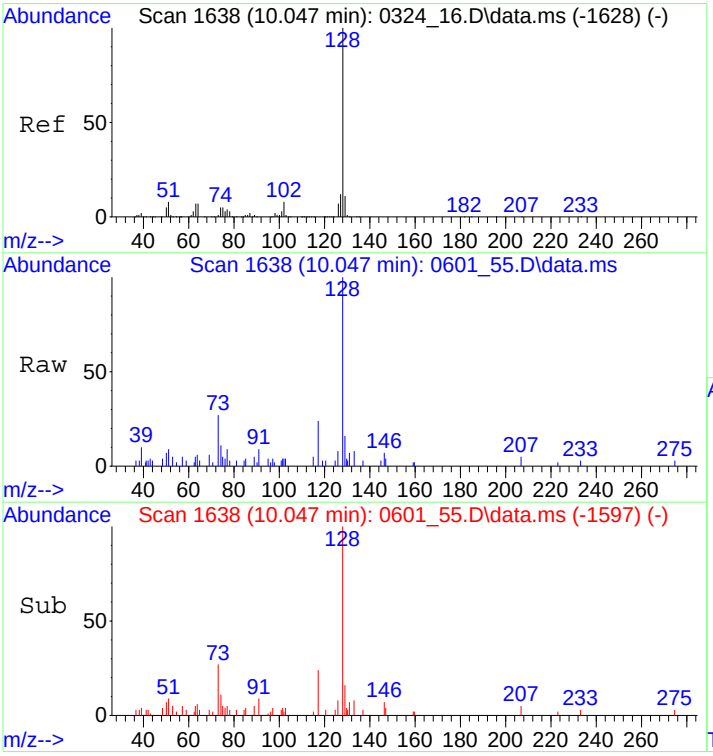


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.4303956 ppb
RT: 8.240 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:105 Resp: 7792

Ion	Ratio	Lower	Upper
105	100		
120	52.7	33.1	49.7#

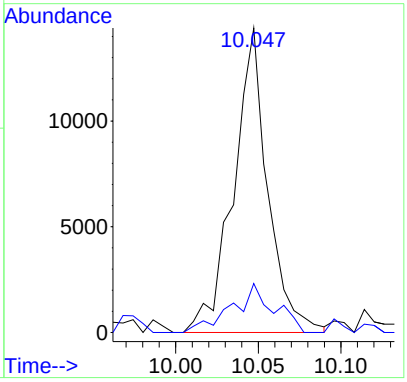


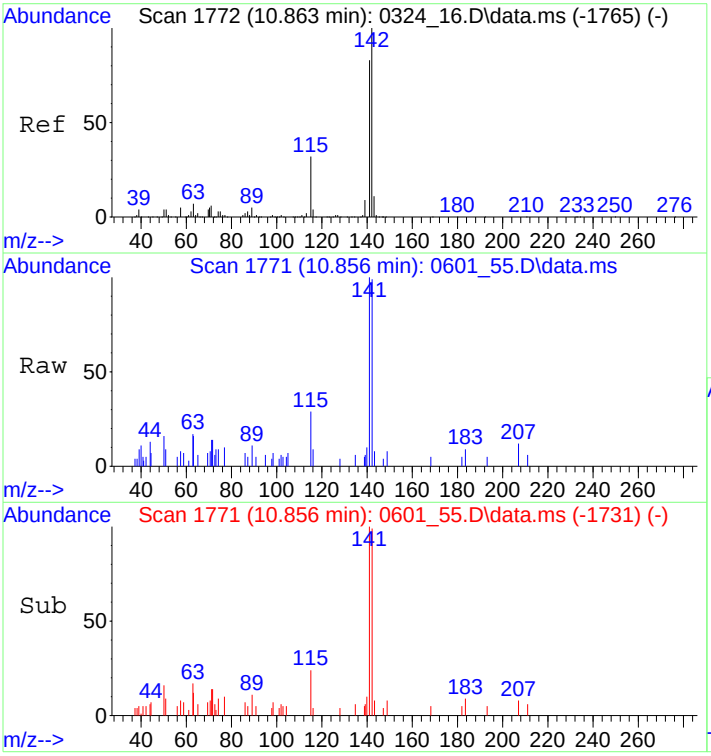


#92
Naphthalene
Concen: 1.2263666 ppb
RT: 10.047 min Scan# 1638
Delta R.T. -0.000 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:128 Resp: 20823

Ion	Ratio	Lower	Upper
128	100		
129	19.6	8.3	12.5#

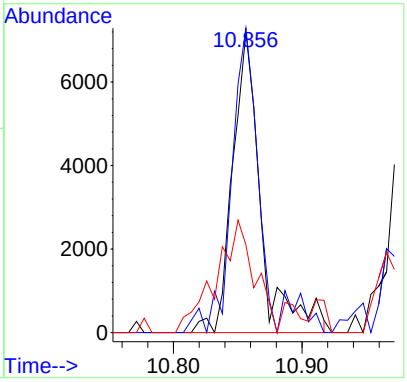


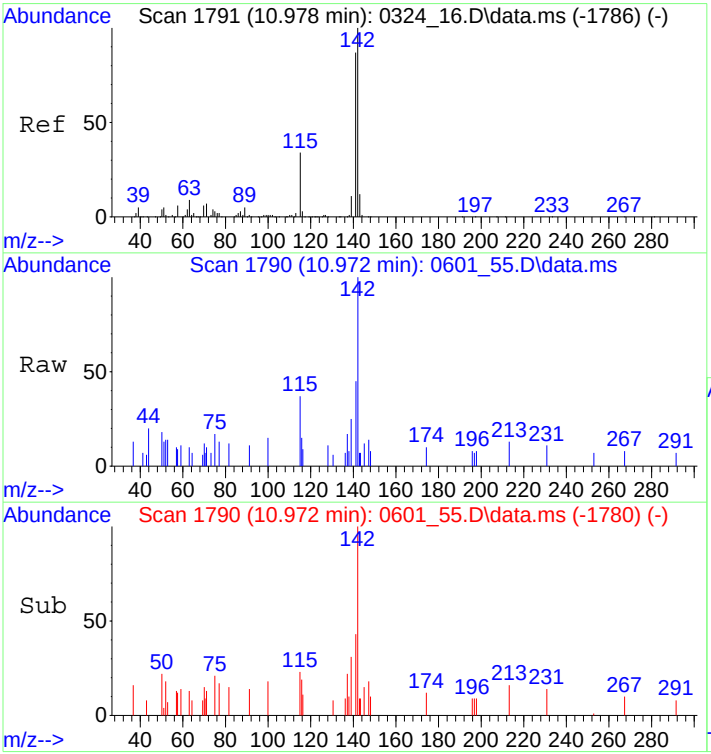


#94
1-Methylnaphthalene
Concen: 1.3328034 ppb
RT: 10.856 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 0601 55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:142 Resp: 11090

Ion	Ratio	Lower	Upper
142	100		
141	91.3	70.4	105.6
115	50.7	27.3	40.9#

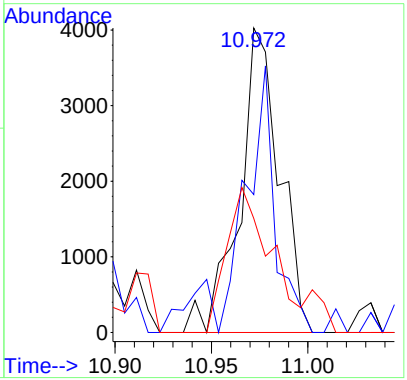




#95
2-Methylnaphthalene
Concen: 0.8481627 ppb
RT: 10.972 min Scan# 1790
Delta R.T. -0.006 min
Lab File: 0601_55.D
Acq: 2 Jun 2015 5:58 am

Tgt Ion:142 Resp: 5817

Ion	Ratio	Lower	Upper
142	100		
141	73.5	73.8	110.8#
115	58.4	30.4	45.6#



Calibration

Instrument: VOCMS7
Method: V807C24O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0324_08.D	.25	3/24/2015 5:08:00 PM
0324_09.D	.5	3/24/2015 5:28:00 PM
0324_10.D	1	3/24/2015 5:47:00 PM
0324_11.D	2	3/24/2015 6:06:00 PM
0324_12.D	5.0	3/24/2015 6:26:00 PM
0324_13.D	10	3/24/2015 6:45:00 PM
0324_14.D	25	3/24/2015 7:04:00 PM
0324_15.D	40	3/24/2015 7:23:00 PM
0324_16.D	75	3/24/2015 7:43:00 PM
0324_17.D	100	3/24/2015 8:02:00 PM
0324_18.D	200	3/24/2015 8:21:00 PM
0324_23.D	1A	3/25/2015 1:58:00 AM
0324_24.D	2.5A	3/25/2015 2:17:00 AM
0324_25.D	5A	3/25/2015 2:36:00 AM
0324_26.D	7.5A	3/25/2015 2:56:00 AM
0324_27.D	10A	3/25/2015 3:15:00 AM
0324_28.D	12A	3/25/2015 3:34:00 AM
0324_29.D	15A	3/25/2015 3:53:00 AM
0324_30.D	17A	3/25/2015 4:13:00 AM
0324_31.D	20A	3/25/2015 4:32:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : John A. Heath Jr.
Date Released : 3/25/2015 2:25:02 PM
Run ID : 032415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0324_01	INSTBLK	V807C24O						1	1	03/24/15 1051	"water IS/SURR15A20860"
2	0324_01	INSTBLK VMS								1	03/24/15 1051	
3	0324_02	INSTBLK	V807C24O						1	1	03/24/15 1110	"water IS/SURR15A20860"
4	0324_02	INSTBLK VMS								1	03/24/15 1110	
5	0324_03	1 ppb	V807A22O							1	03/24/15 1129	
6	0324_04	1 ppb								1	03/24/15 1309	
7	0324_05	1 ppb	V807A22O							1	03/24/15 1348	
8	0324_08	STD VMS 0.25 PPB 15C23959	V807C24O						1	1	03/24/15 1708	"water IS/SURR15A20860"
9	0324_09	STD VMS 0.5 PPB 15C23959	V807C24O						1	1	03/24/15 1728	"water IS/SURR15A20860"
10	0324_10	STD VMS 1 PPB 15C23959	V807C24O						1	1	03/24/15 1747	"water IS/SURR15A20860"
11	0324_10A	RL VMS 1 PPB 15C23959	V807C24O						1	1	03/24/15 1747	"water IS/SURR15A20860"
12	0324_11	STD VMS 2 PPB 15C23959	V807C24O						1	1	03/24/15 1806	"water IS/SURR15A20860"
13	0324_12	STD VMS 5.0 PPB 15C23959	V807C24O						1	1	03/24/15 1826	"water IS/SURR15A20860"
14	0324_12A	RL VMS 5.0 PPB 15C23959	V807C24O						1	1	03/24/15 1826	"water IS/SURR15A20860"
15	0324_13	STD VMS 10 PPB 15C23959	V807C24O						1	1	03/24/15 1845	"water IS/SURR15A20860"
16	0324_14	MSTD VMS 25 PPB 15C23959	V807C24O						1	1	03/24/15 1904	"water IS/SURR15A20860"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : John A. Heath Jr.
Date Released : 3/25/2015 2:25:02 PM
Run ID : 032415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
17	0324_15	STD VMS 40 PPB 15C23959	V807C24O						1	1	03/24/15 1923	"water IS/SURR15A20860"
18	0324_16	STD VMS 75 PPB 15C23959	V807C24O						1	1	03/24/15 1943	"water IS/SURR15A20860"
19	0324_17	STD VMS 100 PPB 15C23959	V807C24O						1	1	03/24/15 2002	"water IS/SURR15A20860"
20	0324_18	STD VMS 200 PPB 15C23959	V807C24O						1	1	03/24/15 2021	"water IS/SURR15A20860"
21	0324_20	SSCV VMS 25 PPB 15C23960	V807C24O						1	1	03/25/15 0100	"water IS/SURR15A20860"
22	0324_23	STD VMS 1A PPB 15C22898	V807C24O						1	1	03/25/15 0158	"water IS/SURR15A20860"
23	0324_23A	RL VMS 1A PPB 15C22898	V807C24O						1	1	03/25/15 0158	"water IS/SURR15A20860"
24	0324_24	STD VMS 2.5 PPB 15C22898	V807C24O						1	1	03/25/15 0217	"water IS/SURR15A20860"
25	0324_25	STD VMS 5 PPB 15C22898	V807C24O						1	1	03/25/15 0236	"water IS/SURR15A20860"
26	0324_26	STD VMS 7.5 PPB 15C22898	V807C24O						1	1	03/25/15 0256	"water IS/SURR15A20860"
27	0324_27	MSTD VMS 10A PPB 15C22898	V807C24O						1	1	03/25/15 0315	"water IS/SURR15A20860"
28	0324_28	STD VMS 12.5 PPB 15C22898	V807C24O						1	1	03/25/15 0334	"water IS/SURR15A20860"
29	0324_29	STD VMS 15 PPB 15C22898	V807C24O						1	1	03/25/15 0353	"water IS/SURR15A20860"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK

Released By : John A. Heath Jr.
Date Released : 3/25/2015 2:25:02 PM

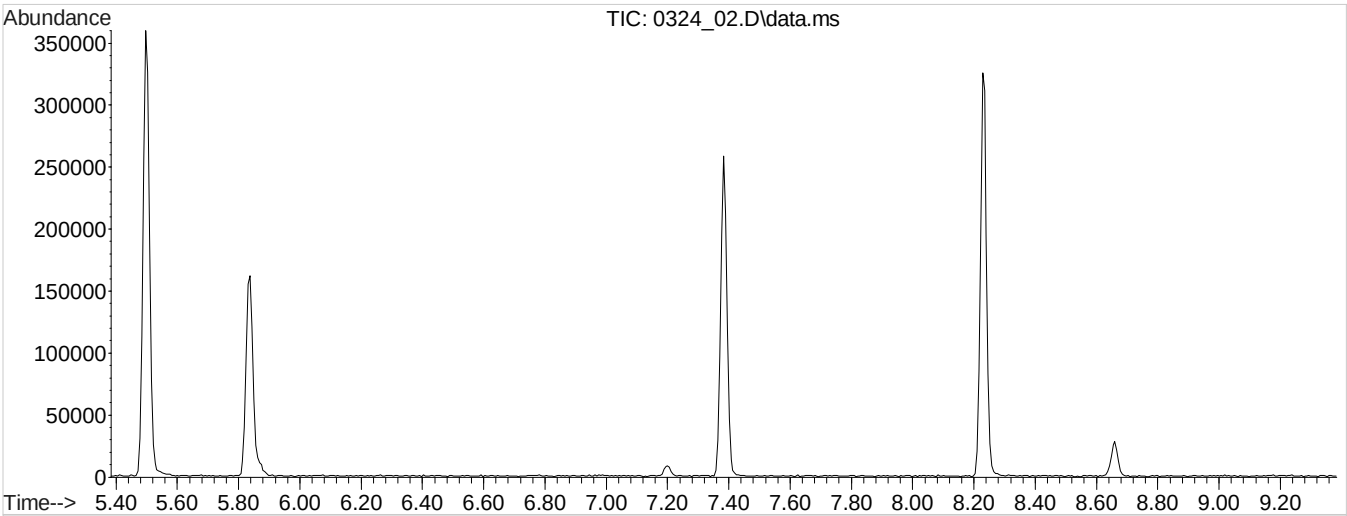
Run ID : 032415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
30	0324_30	STD VMS 17.5 PPB 15C22898	V807C24O						1	1	03/25/15 0413	"water IS/SURR15A20860"
31	0324_31	STD VMS 20 PPB 15C22898	V807C24O						1	1	03/25/15 0432	"water IS/SURR15A20860"
32	0324_32	INSTBLK	V807C24O						1	1	03/25/15 0451	"water IS/SURR15A20860"
33	0324_32	INSTBLK VMS								1	03/25/15 0451	
34	0324_34	SSCV VMS 10A PPB 15C22904	V807C24O						1	1	03/25/15 1402	"water IS/SURR15A20860"

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807C24O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Wed Mar 25 13:27:30 2015



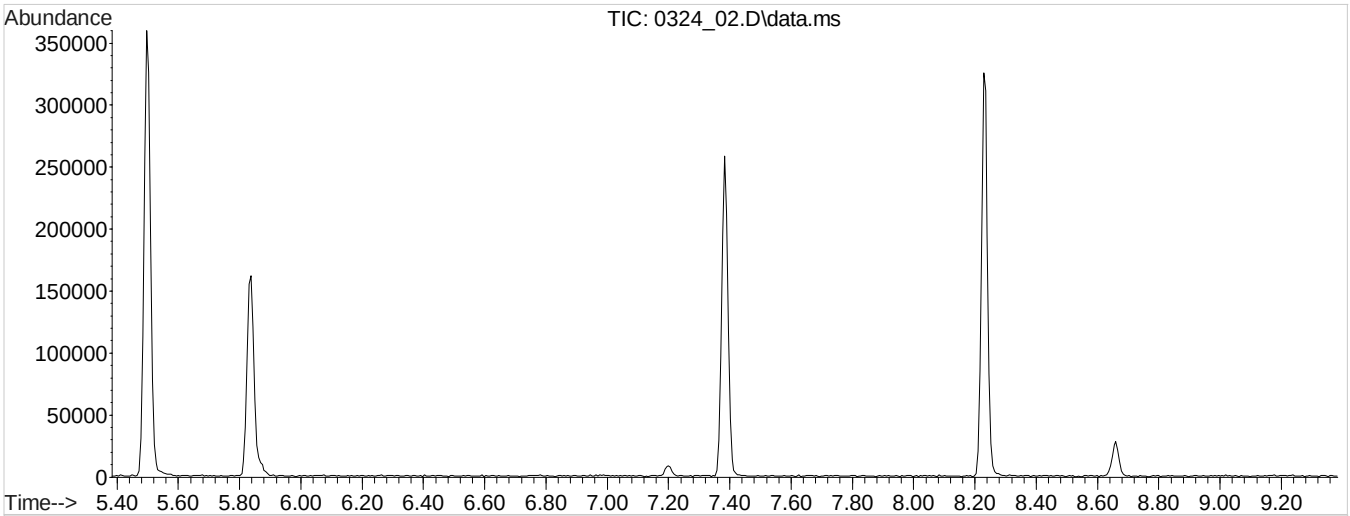
Spectrum Information: Average of 7.377 to 7.389 min.

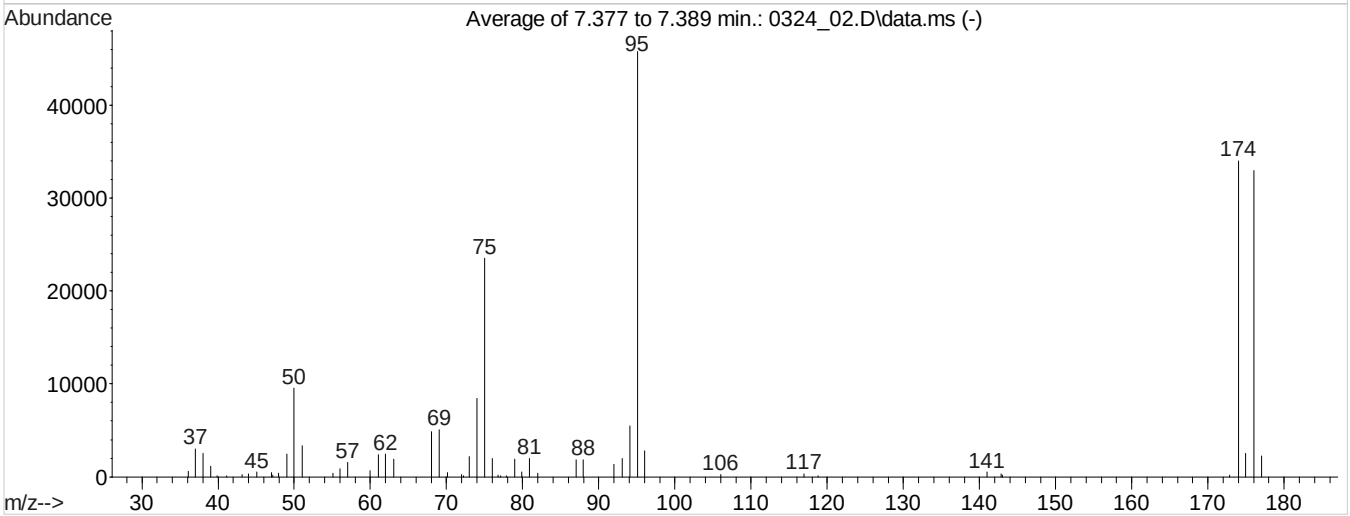
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	9553	PASS
75	95	30	60	51.4	23568	PASS
95	95	100	100	100.0	45829	PASS
96	95	5	9	6.1	2792	PASS
173	174	0.00	2	0.5	160	PASS
174	95	50	150	74.2	34021	PASS
175	174	5	9	7.4	2513	PASS
176	174	95	101	96.9	32979	PASS
177	176	5	9	6.8	2231	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807C24O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Wed Mar 25 13:27:30 2015





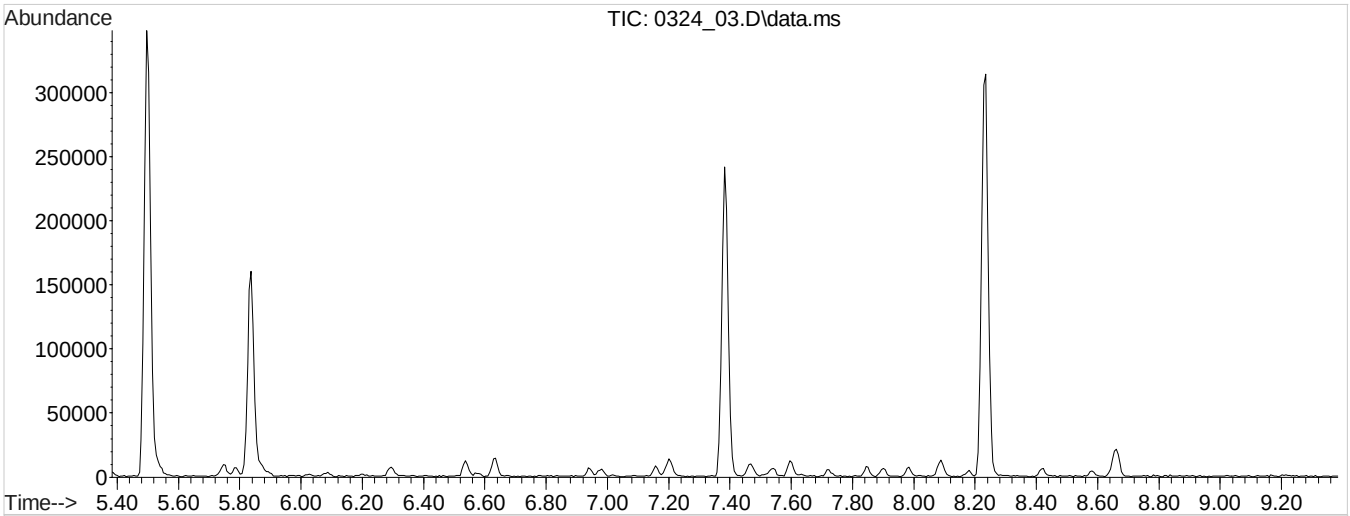
Spectrum Information: Average of 7.377 to 7.389 min.

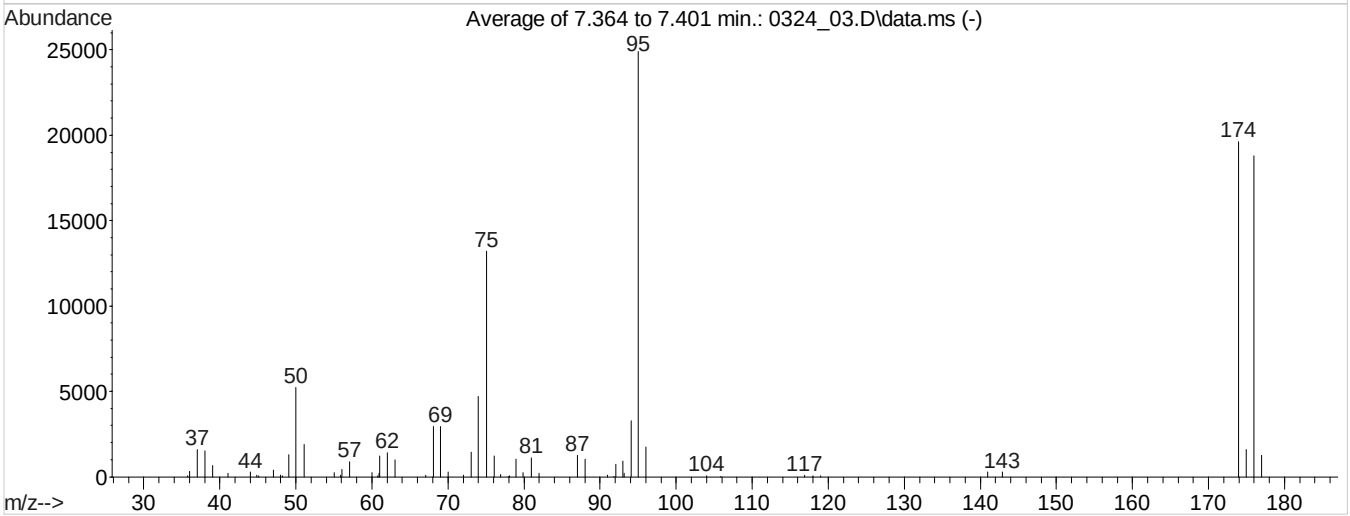
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	9553	PASS
75	95	30	60	51.4	23568	PASS
95	95	100	100	100.0	45829	PASS
96	95	5	9	6.1	2792	PASS
173	174	0.00	2	0.5	160	PASS
174	95	50	150	74.2	34021	PASS
175	174	5	9	7.4	2513	PASS
176	174	95	101	96.9	32979	PASS
177	176	5	9	6.8	2231	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 03.D
Acq On : 24 Mar 2015 11:29 am
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





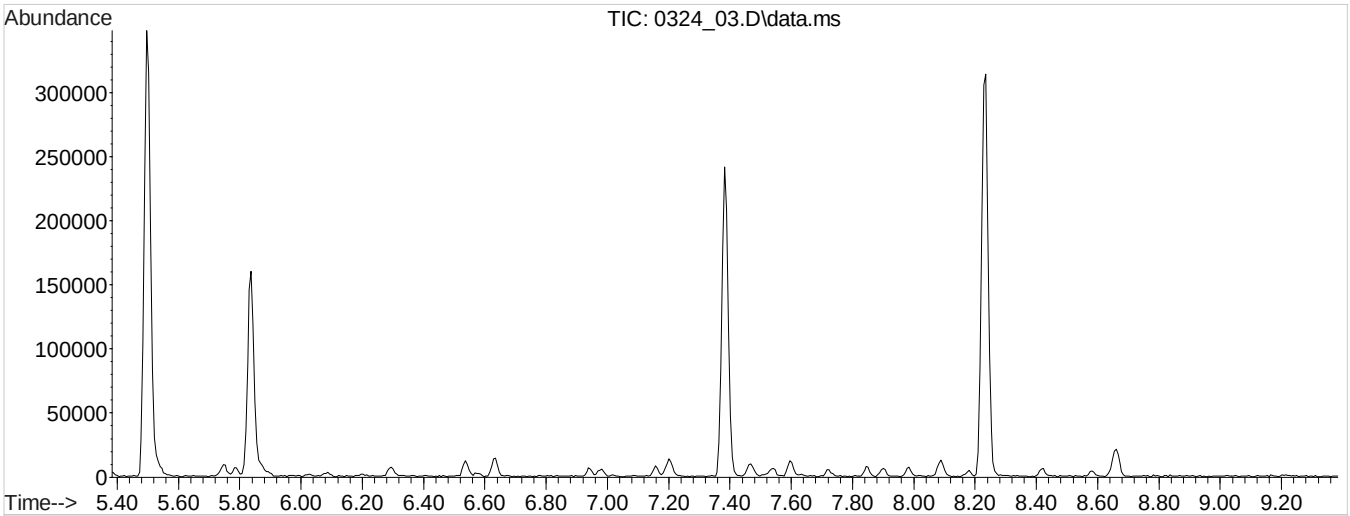
Spectrum Information: Average of 7.364 to 7.401 min.

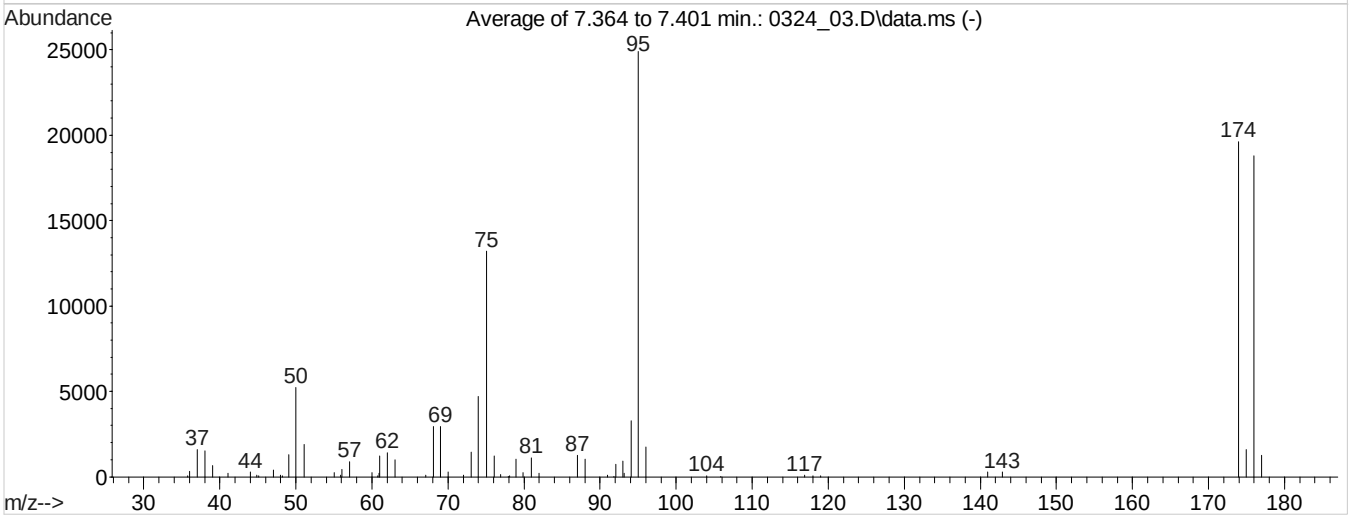
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	5219	PASS
75	95	30	60	53.1	13225	PASS
95	95	100	100	100.0	24912	PASS
96	95	5	9	6.9	1731	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	78.8	19636	PASS
175	174	5	9	8.1	1588	PASS
176	174	95	101	95.8	18812	PASS
177	176	5	9	6.7	1269	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 03.D
Acq On : 24 Mar 2015 11:29 am
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





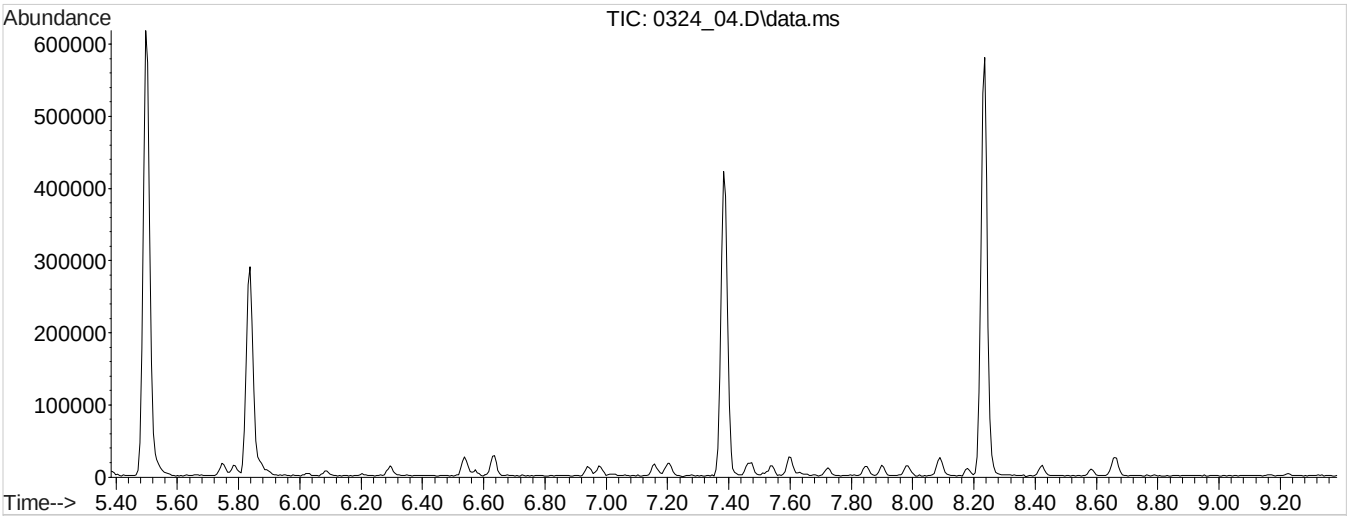
Spectrum Information: Average of 7.364 to 7.401 min.

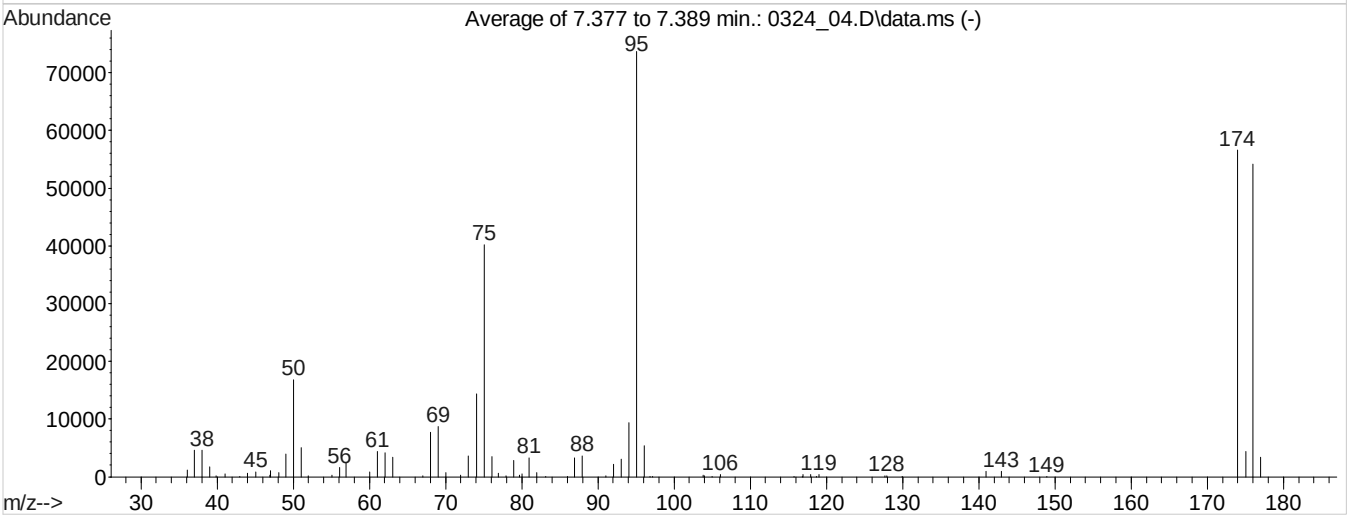
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	5219	PASS
75	95	30	60	53.1	13225	PASS
95	95	100	100	100.0	24912	PASS
96	95	5	9	6.9	1731	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	78.8	19636	PASS
175	174	5	9	8.1	1588	PASS
176	174	95	101	95.8	18812	PASS
177	176	5	9	6.7	1269	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 04.D
Acq On : 24 Mar 2015 1:09 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





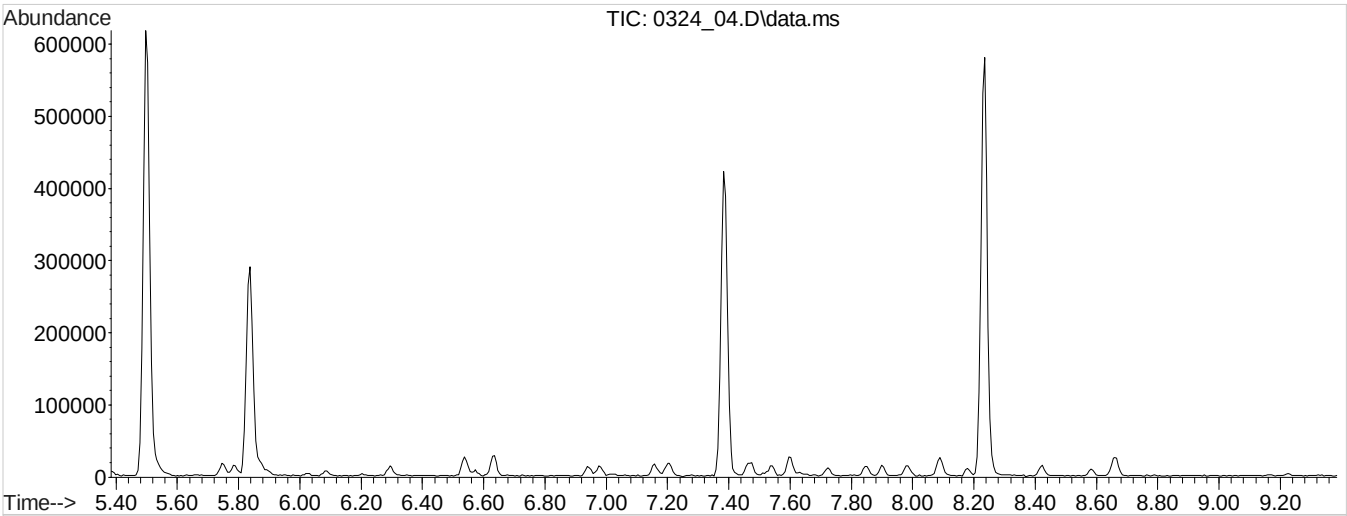
AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1193

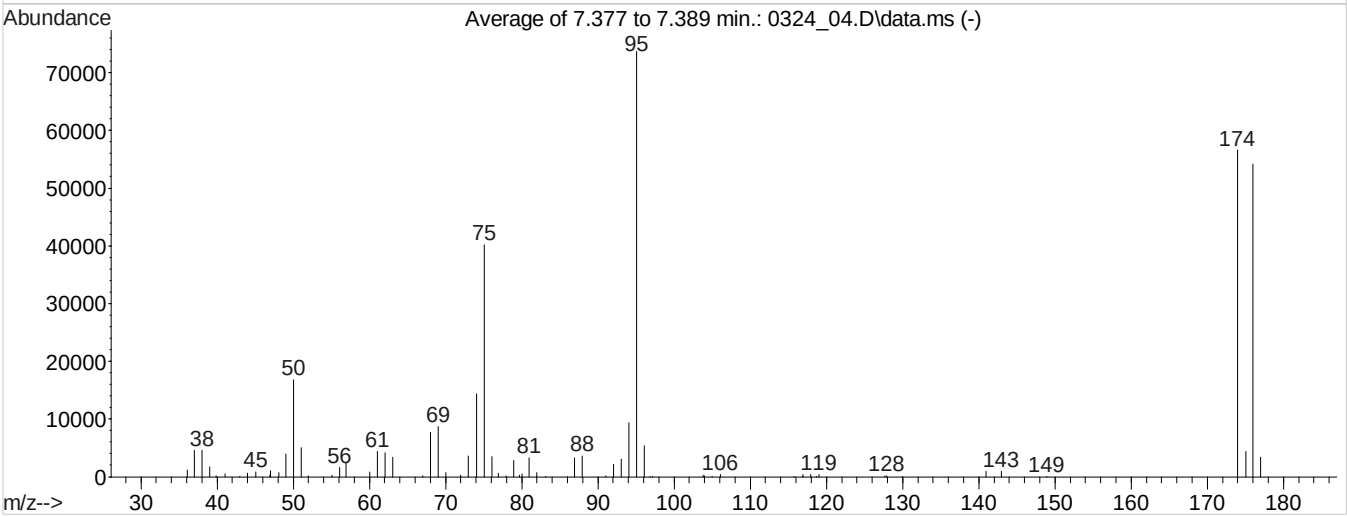
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	16852	PASS
75	95	30	60	54.5	40187	PASS
95	95	100	100	100.0	73699	PASS
96	95	5	9	7.3	5409	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	76.7	56549	PASS
175	174	5	9	7.8	4383	PASS
176	174	95	101	95.8	54163	PASS
177	176	5	9	6.2	3376	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 04.D
Acq On : 24 Mar 2015 1:09 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





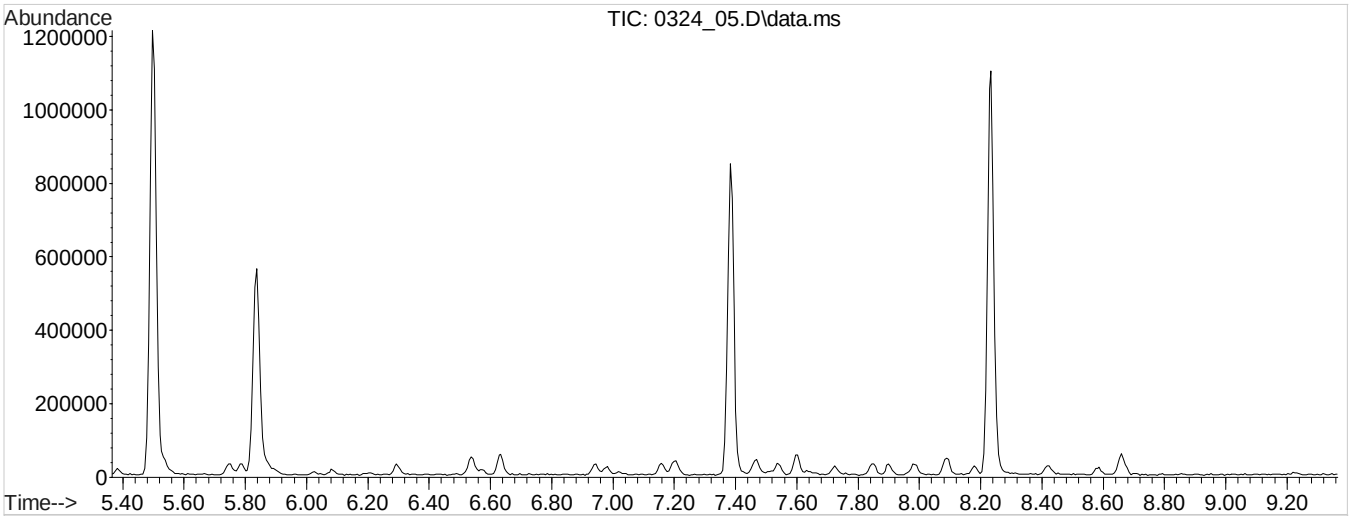
AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1193

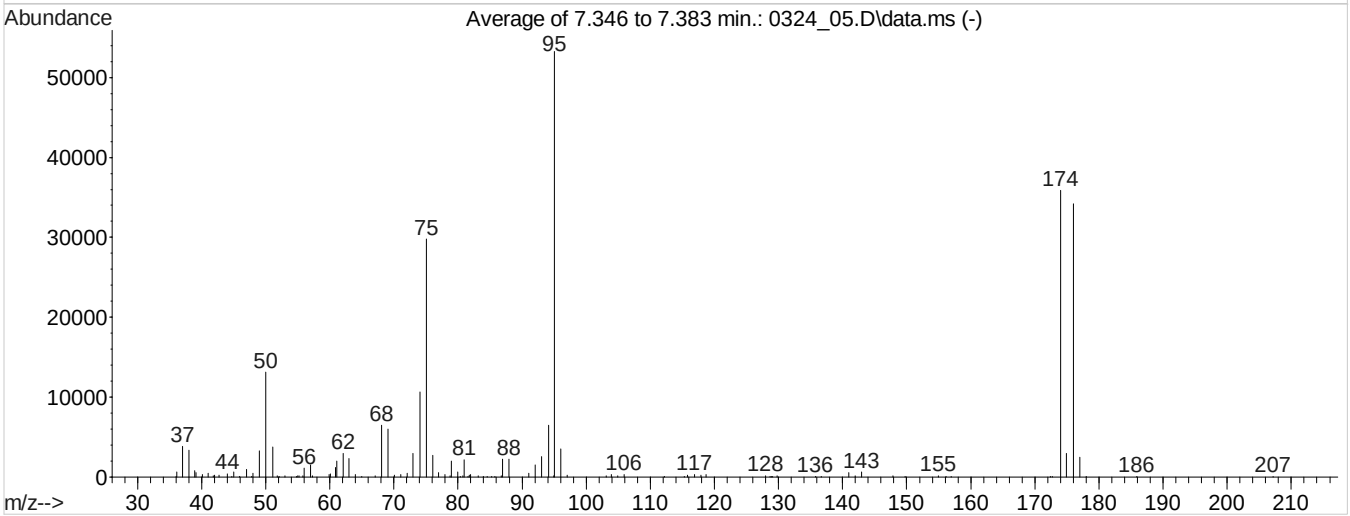
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	16852	PASS
75	95	30	60	54.5	40187	PASS
95	95	100	100	100.0	73699	PASS
96	95	5	9	7.3	5409	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	76.7	56549	PASS
175	174	5	9	7.8	4383	PASS
176	174	95	101	95.8	54163	PASS
177	176	5	9	6.2	3376	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 05.D
Acq On : 24 Mar 2015 1:48 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





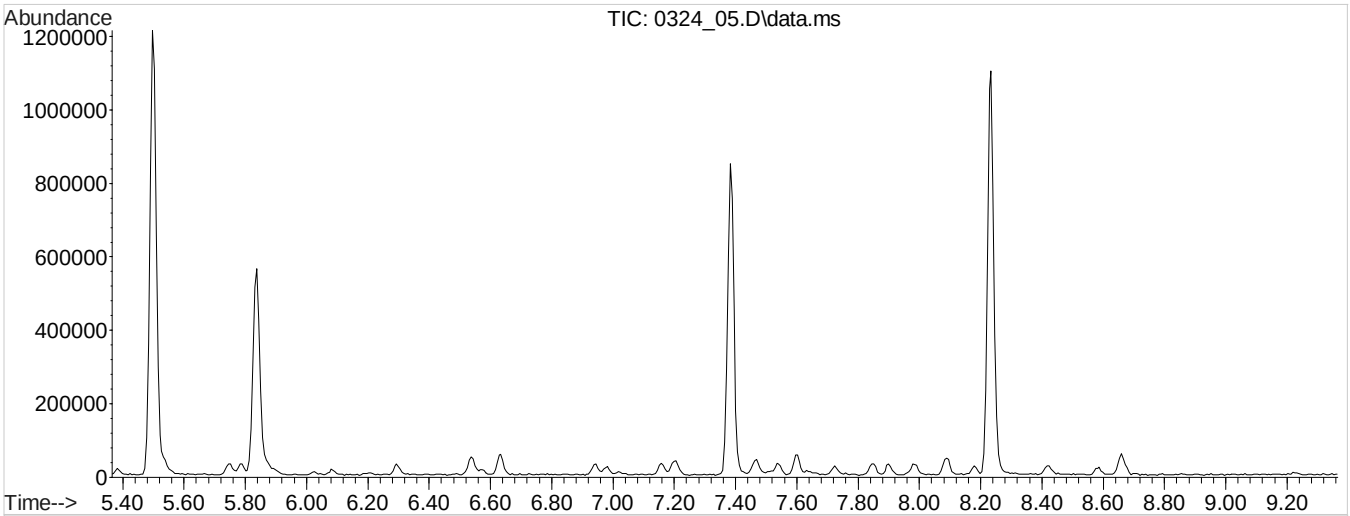
Spectrum Information: Average of 7.346 to 7.383 min.

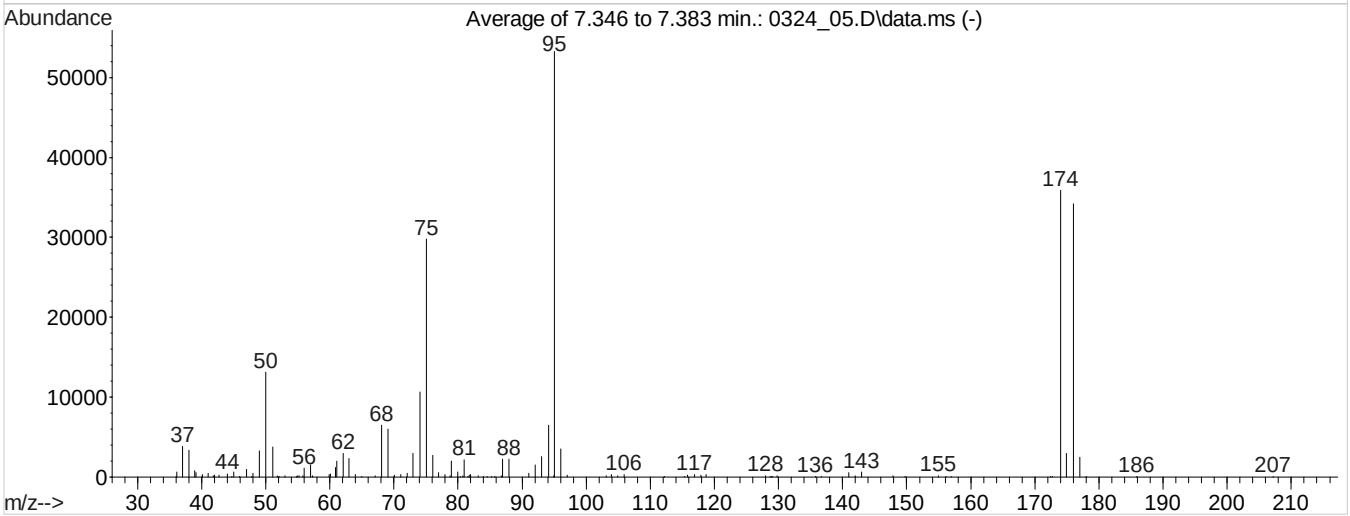
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	13124	PASS
75	95	30	60	55.8	29765	PASS
95	95	100	100	100.0	53300	PASS
96	95	5	9	6.6	3527	PASS
173	174	0.00	2	0.1	41	PASS
174	95	50	150	67.3	35857	PASS
175	174	5	9	8.2	2931	PASS
176	174	95	101	95.4	34190	PASS
177	176	5	9	7.2	2472	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 05.D
Acq On : 24 Mar 2015 1:48 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807A22O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Fri Jan 23 16:33:28 2015





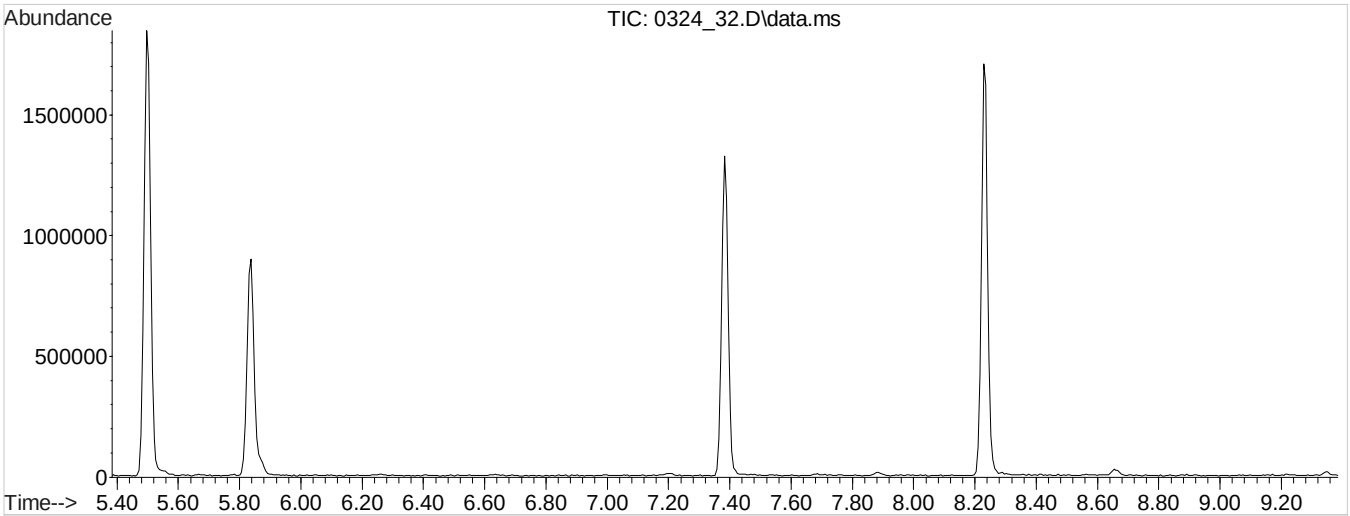
Spectrum Information: Average of 7.346 to 7.383 min.

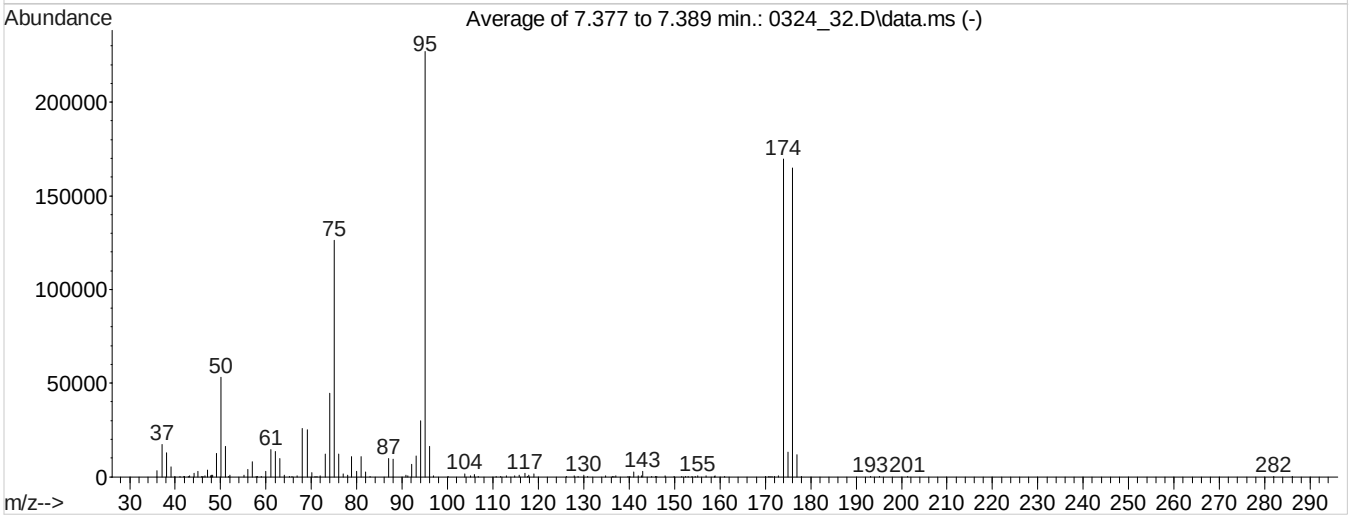
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	13124	PASS
75	95	30	60	55.8	29765	PASS
95	95	100	100	100.0	53300	PASS
96	95	5	9	6.6	3527	PASS
173	174	0.00	2	0.1	41	PASS
174	95	50	150	67.3	35857	PASS
175	174	5	9	8.2	2931	PASS
176	174	95	101	95.4	34190	PASS
177	176	5	9	7.2	2472	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 32.D
Acq On : 25 Mar 2015 4:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807C24O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Wed Mar 25 13:27:30 2015





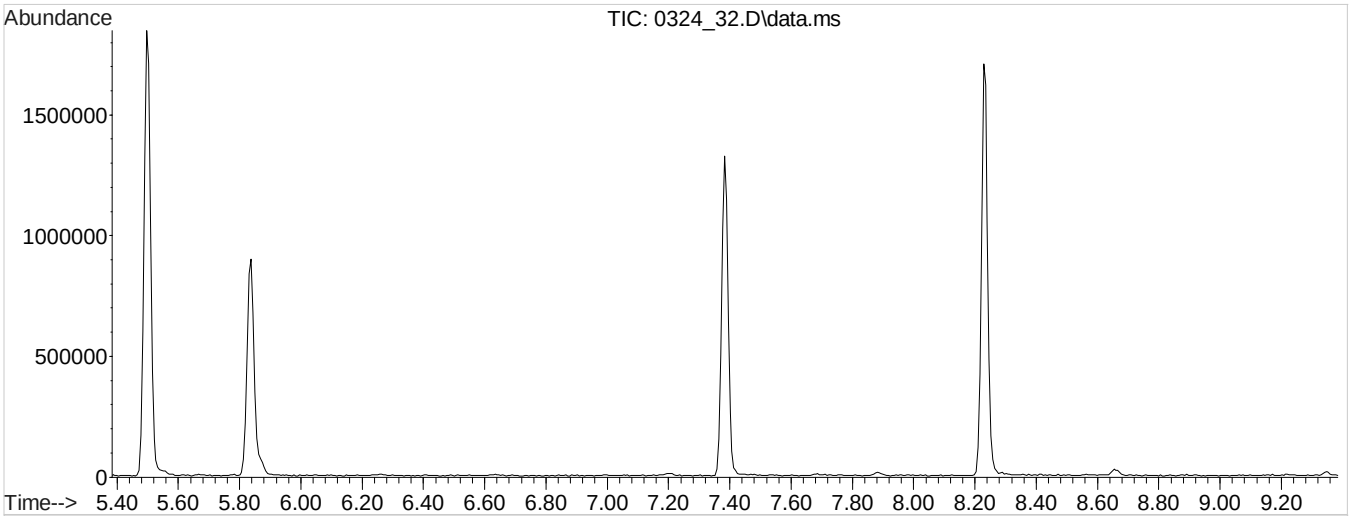
AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1192

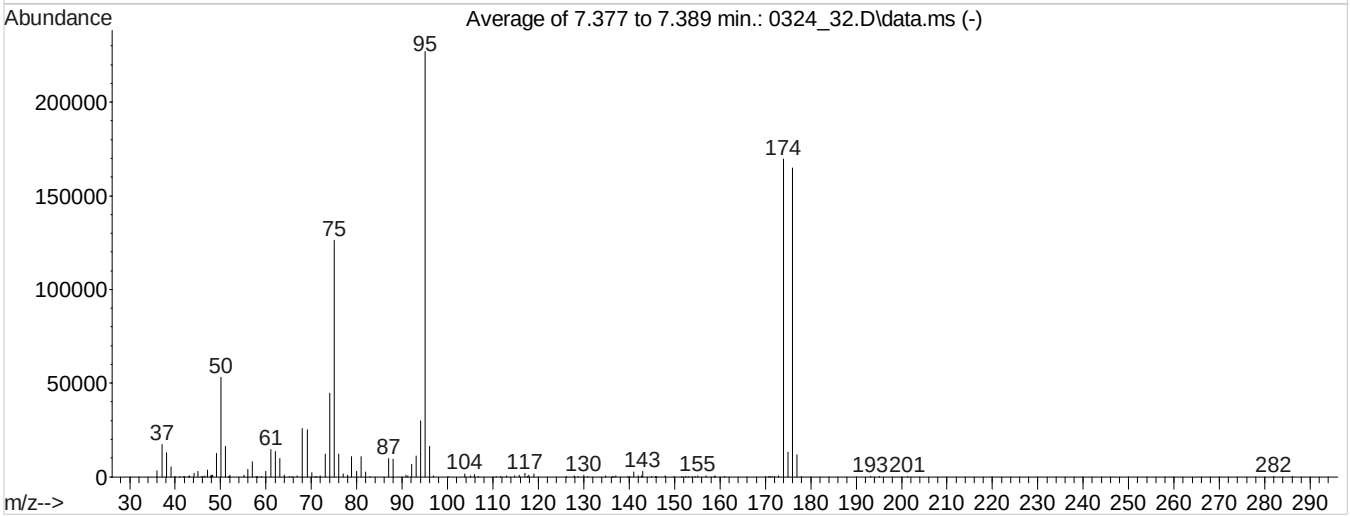
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	53165	PASS
75	95	30	60	55.6	126272	PASS
95	95	100	100	100.0	227136	PASS
96	95	5	9	7.1	16107	PASS
173	174	0.00	2	0.4	624	PASS
174	95	50	150	74.6	169509	PASS
175	174	5	9	7.8	13141	PASS
176	174	95	101	97.2	164819	PASS
177	176	5	9	7.1	11654	PASS

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 32.D
Acq On : 25 Mar 2015 4:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807C24O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Wed Mar 25 13:27:30 2015





AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	53165	PASS
75	95	30	60	55.6	126272	PASS
95	95	100	100	100.0	227136	PASS
96	95	5	9	7.1	16107	PASS
173	174	0.00	2	0.4	624	PASS
174	95	50	150	74.6	169509	PASS
175	174	5	9	7.8	13141	PASS
176	174	95	101	97.2	164819	PASS
177	176	5	9	7.1	11654	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1
4BP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:25:02 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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
ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1
1-Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

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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
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1
4BP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1

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Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:18 PM

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ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1
Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	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	: VOCMS7	Review Method	: 624	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:53 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1

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Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:53 PM

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METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1

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Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:53 PM

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BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	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
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1

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1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: EPA	Released On	: 3/25/2015 2:22:53 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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
ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1
Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1
4BP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SC	Released On	: 3/25/2015 2:23:24 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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
ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1
1-Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1

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INITIAL CALIBRATION SUMMARY

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Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1
4BP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SM 20th	Released On	: 3/25/2015 2:23:57 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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
ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1
Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

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			0.1	0.153	0.118	0.089	0.087	0.099	0.084	0.092											0.102698	22.25	0.995	0	
DICHLORODIFLUOROMETHANE	0.57	0.632	0.576	0.489	0.483	0.446	0.452	0.47	0.447	0.483	0.588										0.512445	12.92	0.129	1	0.1
CHLOROMETHANE			0.795	0.679	0.672	0.597	0.598	0.61	0.574	0.6	0.72										0.649497	11.25	0.113	1	0.1
VINYL CHLORIDE	0.824	0.518	0.566	0.611	0.612	0.523	0.552	0.574	0.536	0.589	0.683										0.598816	14.76	0.148	1	0.1
1,3-BUTADIENE				0.438	0.549	0.447	0.423	0.459	0.406	0.43	0.493										0.455505	10.04	0.1	1	
BROMOMETHANE				0.359	0.372	0.319	0.294	0.299	0.281	0.299	0.364										0.323474	11.15	0.111	1	0.1
CHLOROETHANE				0.146	0.123	0.106	0.091	0.091	0.079	0.078											0.101926	24.38	0.997	0	0.1
TRICHLOROFLUOROMETHANE	0.694	0.638	0.746	0.638	0.712	0.657	0.681	0.69	0.648	0.688	0.855										0.69508	8.99	0.09	1	0.1
DICHLOROFLUOROMETHANE		1.064	0.925	0.858	0.962	0.834	0.857	0.89	0.835	0.867	1.045										0.913865	9.22	0.092	1	
ETHYL ETHER	0.309	0.449	0.501	0.371	0.437	0.391	0.387	0.387	0.374	0.392	0.481										0.407165	13.56	0.136	1	
ACROLEIN		0.092	0.106	0.079	0.098	0.082	0.089	0.08	0.079	0.082	0.102										0.088983	11.19	0.112	1	
1,1-DICHLOROETHENE		0.849	0.798	0.727	0.724	0.692	0.684	0.701	0.661	0.699	0.82										0.735472	8.65	0.087	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.534	0.374	0.378	0.41	0.369	0.375	0.396	0.379	0.404	0.472										0.409156	13.06	0.131	1	0.1
ACETONE		0.383	0.359	0.325	0.302	0.279	0.286	0.269	0.256	0.262	0.31										0.303179	13.91	0.139	1	0.1
IODOMETHANE	0.52	0.513	0.514	0.48	0.488	0.485	0.497	0.528	0.511	0.553	0.704										0.526654	11.86	0.119	1	
CARBON DISULFIDE		1.884	1.72	1.502	1.503	1.394	1.382	1.442	1.33	1.409	1.723										1.528733	12	0.12	1	0.1
METHYLENE CHLORIDE			0.623	0.455	0.444	0.464	0.461	0.441	0.429	0.442	0.55										0.47884	13.53	0.135	1	0.1
ACRYLONITRILE	0.265	0.211	0.167	0.196	0.178	0.182	0.193	0.181	0.169	0.179	0.216										0.194188	14.5	0.145	1	
n-Hexane			0.606	0.53	0.543	0.455	0.458	0.452	0.418	0.44	0.521										0.491346	12.49	0.125	1	
TRANS-1,2-DICHLOROETHENE		0.537	0.454	0.45	0.458	0.396	0.414	0.428	0.405	0.43	0.519										0.449014	10.39	0.104	1	0.1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

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METHYL TERT-BUTYL ETHER	1.443	1.504	1.49	1.327	1.403	1.378	1.391	1.335	1.279	1.326	1.619										1.408644	7.04	0.07	1	0.1
1,1-DICHLOROETHANE	0.807	0.872	1.022	0.853	0.859	0.82	0.848	0.847	0.806	0.848	1.029										0.873649	8.94	0.089	1	0.2
VINYL ACETATE	0.838	0.981	0.864	0.852	0.869	0.832	0.853	0.755	0.724	0.715	0.863										0.831477	9.13	0.091	1	
DI-ISOPROPYL ETHER	1.909	1.767	1.844	1.674	1.776	1.682	1.691	1.694	1.616	1.663	1.994										1.755514	6.67	0.067	1	
2,2-Dichloropropane	0.967	0.876	0.797	0.799	0.781	0.679	0.71	0.73	0.684	0.719	0.865										0.782409	11.61	0.116	1	
CIS-1,2-DICHLOROETHENE	0.598	0.619	0.611	0.503	0.473	0.445	0.45	0.473	0.441	0.467	0.57										0.513434	13.89	0.139	1	0.1
2-BUTANONE (MEK)	0.061	0.078	0.071	0.083	0.078	0.074	0.082	0.076	0.074	0.078	0.092										0.077082	10.12	0.101	1	0.1
BROMOCHLOROMETHANE	0.258	0.315	0.332	0.265	0.279	0.256	0.265	0.266	0.253	0.257	0.318										0.278472	10.39	0.104	1	
TETRAHYDROFURAN					0.196	0.169	0.184	0.17	0.156	0.168	0.197										0.177354	8.76	0.088	1	
CHLOROFORM	1.045	0.96	0.932	0.796	0.799	0.768	0.793	0.792	0.752	0.778	0.939										0.850304	11.68	0.117	1	0.2
DIBROMOFLUOROMETHANE	0.52	0.519	0.518	0.497	0.5	0.486	0.483	0.471	0.448	0.455	0.445										0.48569	5.81	0.058	1	
1,1,1-TRICHLOROETHANE		0.709	0.729	0.681	0.713	0.649	0.647	0.685	0.641	0.666	0.82										0.693918	7.71	0.077	1	0.1
CARBON TETRACHLORIDE	0.692	0.657	0.585	0.628	0.58	0.507	0.603	0.574	0.601	0.644	0.796										0.624409	12.01	0.12	1	0.1
1,1-Dichloropropene	0.625	0.671	0.769	0.645	0.693	0.619	0.638	0.646	0.606	0.647	0.774										0.666691	8.57	0.086	1	
2,2,4-TRIMETHYLPENTANE		2.314	2.105	2.028	2.124	1.978	1.968	2.03	1.912	2.051	2.47										2.098022	8.15	0.082	1	
HEPTANE	1.321	1.025	0.876	0.896	0.909	0.852	0.909	0.87	0.862	0.892	1.043										0.95034	14.53	0.145	1	
BENZENE	2.14	2.065	1.794	1.74	1.863	1.674	1.697	1.772	1.678	1.775	2.171										1.851716	10.02	0.1	1	0.5
1,2-DICHLOROETHANE	0.582	0.625	0.675	0.632	0.653	0.64	0.654	0.659	0.646	0.674	0.811										0.659226	8.6	0.086	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.222	0.265	0.265	0.245	0.259	0.244	0.254	0.259	0.253	0.266	0.322										0.259421	9.35	0.093	1	0.2
1,2-DICHLOROPROPANE	0.175	0.233	0.217	0.193	0.224	0.198	0.209	0.204	0.204	0.202	0.247										0.209641	9.52	0.095	1	0.1
DIBROMOMETHANE		0.131	0.162	0.153	0.169	0.159	0.164	0.167	0.165	0.17	0.211										0.165064	11.99	0.12	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: John A. Heath Jr.
Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE			0.446	0.412	0.401	0.368	0.375	0.366	0.357	0.372	0.451										0.394252	8.97	0.09	1	0.2
a,a,a-Trifluorotoluene	0.576	0.569	0.561	0.541	0.54	0.527	0.518	0.505	0.5	0.495	0.494										0.529652	5.69	0.057	1	
-CHLOROETHYL VINYL ETHER					0.007	0.007	0.007	0.008	0.007	0.008	0.009										0.007502	13.44	0.134	1	
CIS-1,3-DICHLOROPROPENE	0.534	0.45	0.508	0.435	0.477	0.436	0.452	0.474	0.459	0.469	0.57										0.478505	8.91	0.089	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.135	0.13	0.123	0.119	0.122	0.113	0.125	0.114	0.112	0.114	0.136										0.122035	7.04	0.07	1	0.1
TOLUENE-D8	1.222	1.228	1.209	1.171	1.142	1.111	1.115	1.076	1.063	1.043	1.06										1.130837	6.03	0.06	1	
TOLUENE			1.346	1.13	1.133	1.02	1.061	1.072	1.051	1.096	1.332										1.137856	10.52	0.105	1	0.4
TRANS-1,3-DICHLOROPROPENE			0.116	0.111	0.103	0.093	0.095	0.096	0.093	0.096	0.116										0.102139	9.62	0.096	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.859	1.75	1.652	1.315	1.267	1.28	1.31	1.292	1.328	1.344	1.522										1.447203	14.73	0.147	1	0.1
TETRACHLOROETHENE	1.453	1.344	1.084	1.104	1.114	1.055	1.024	1.119	1.092	1.127	1.325										1.167447	11.94	0.119	1	0.2
1,3-Dichloropropane	3.174	2.961	2.402	2.484	2.329	2.248	2.391	2.333	2.366	2.362	2.714										2.523957	11.8	0.118	1	
2-HEXANONE	0.808	0.704	0.745	0.787	0.735	0.757	0.793	0.733	0.756	0.733	0.835										0.76228	5.09	0.051	1	0.1
CHLORODIBROMOMETHANE	1.64	1.591	1.367	1.328	1.409	1.375	1.442	1.442	1.496	1.492	1.781										1.487629	9.09	0.091	1	0.1
1,2-DIBROMOETHANE	1.639	1.236	1.573	1.383	1.387	1.254	1.399	1.329	1.401	1.408	1.645										1.423086	9.81	0.098	1	0.1
CHLOROBENZENE	3.987	4.686	4.127	3.901	3.945	3.955	3.862	3.919	4.005	3.952	4.676										4.092201	7.3	0.073	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.861	1.332	1.255	1.288	1.243	1.205	1.299	1.278	1.33	1.315	1.562										1.360545	13.94	0.139	1	
ETHYLBENZENE	1.819	2.645	2.715	2.122	2.146	2.038	2.151	2.212	2.179	2.208	2.539										2.252184	12	0.12	1	0.1
M&P-XYLENE	3.367	2.83	2.978	2.628	2.761	2.545	2.6	2.655	2.683	2.725	3.224										2.817875	9.43	0.094	1	0.1
O-XYLENE	2.832	2.692	2.587	2.841	2.548	2.514	2.581	2.604	2.686	2.782	3.213										2.716255	7.35	0.074	1	0.3
STYRENE	4.261	4.084	4.131	4.417	4.252	4.259	4.256	4.328	4.479	4.443	5.274										4.380444	7.32	0.073	1	0.3
Bromoform	0.696	0.762	0.872	0.87	0.836	0.919	0.917	0.915	0.996	1.012	1.217										0.910214	15.07	0.151	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	7.9	8.059	7.704	6.851	7.024	6.701	6.612	7.036	7.14	7.238	8.389										7.332195	8.05	0.08	1	0.1
4-BROMOFLUOROBENZENE	2.596	2.642	2.522	2.609	2.468	2.474	2.565	2.49	2.672	2.588	2.555										2.562004	2.65	0.026	1	
Bromobenzene	4.028	4.178	3.476	3.413	3.135	3.05	3.038	3.077	3.115	3.083	3.461										3.368494	11.9	0.119	1	
1,1,2,2-TETRACHLOROETHANE		2.342	2.384	1.934	1.829	1.721	1.882	1.767	1.831	1.821	2.099										1.961025	12.02	0.12	1	0.3
1,2,3-TRICHLOROPROPANE	0.655	0.429	0.56	0.472	0.484	0.512	0.517	0.482	0.514	0.499	0.59										0.519418	11.95	0.12	1	
TRANS-1,4-DICHLORO-2-BUTENE				0.695	0.618	0.574	0.59	0.56	0.591	0.592	0.714										0.61661	9.23	0.092	1	
n-Propylbenzene	9.4	10.12	8.389999	8.059999	8.29	7.96	8	8.38	8.49	8.7	9.84										8.69297	8.64	0.086	1	
4-ETHYLTOLUENE	7.199	8.593	7.205	6.777	6.699	6.479	6.463	6.739	6.765	6.96	8.03										7.082606	9.4	0.094	1	
2-Chlorotoluene	1.73	1.618	1.768	1.573	1.36	1.387	1.454	1.494	1.567	1.56	1.899										1.582825	10.4	0.104	1	
4-Chlorotoluene	6.949	6.755	5.469	5.15	5.148	4.82	4.871	5.055	5.201	5.179	5.989										5.507779	13.35	0.134	1	
1,3,5-Trimethylbenzene	7.276	6.631	6.028	6.146	5.775	5.594	5.465	5.692	5.75	5.861	6.608										6.075059	9.07	0.091	1	
tert-Butylbenzene	5.24	5.047	4.967	5.232	5.022	4.562	4.733	5.005	5.061	5.112	5.96										5.085524	6.91	0.069	1	
1,2,4-Trimethylbenzene	8.36	6.764	6.428	5.888	6.062	5.638	5.744	5.784	5.836	5.931	6.811										6.29497	12.63	0.126	1	
sec-Butylbenzene	7.626	9.453	8.51	8.096	7.677	7.245	7.267	7.757	7.86	8.017	9.167										8.061308	8.89	0.089	1	
1,3-DICHLOROBENZENE	3.62	3.251	3.388	3.35	3.137	3.045	3.019	3.218	3.251	3.263	3.831										3.306657	7.27	0.073	1	0.6
p-Isopropyltoluene	7.004	7.053	6.182	6.636	6.357	6.205	6.042	6.44	6.502	6.65	7.61										6.607499	6.98	0.07	1	
DICYCLOPENTADIENE	7.068	7.438	7.311	7.477	7.305	6.959	7.019	7.214	7.145	7.229	8.124										7.298935	4.37	0.044	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.698	1.238	1.257	1.25	1.125	1.121	1.164	1.157	1.139	1.139	1.385										1.242984	13.74	0.137	1	
1,2,3-TRIMETHYLBENZENE	2.655	2.626	2.405	2	2.211	2.157	2.138	2.159	2.033	2.054	2.404										2.258348	10.21	0.102	1	
1,2-DICHLOROBENZENE	1.141	1.157	1.119	1.027	1.175	1.148	1.112	1.15	1.104	1.103	1.321										1.141644	6.27	0.063	1	0.4
n-Butylbenzene	2.921	2.675	2.511	2.348	2.408	2.287	2.212	2.339	2.2	2.233	2.524										2.423547	9.14	0.091	1	

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INITIAL CALIBRATION SUMMARY

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Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807C24O -- ICal Updated Time: Wed Mar 25 13:27:30 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane				0.141	0.135	0.129	0.144	0.152	0.145	0.149	0.185										0.1475	11.36	0.114	1	0.05
1,2,4-Trichlorobenzene	0.925	0.721	0.708	0.761	0.754	0.706	0.753	0.769	0.74	0.718	0.845										0.763697	8.67	0.087	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.58	0.406	0.472	0.416	0.425	0.403	0.421	0.434	0.405	0.41	0.49										0.44211	12.19	0.122	1	
Naphthalene	2.436	2.186	2.091	1.957	1.986	2.012	2.106	2.081	2.015	2.051	2.38										2.118033	7.41	0.074	1	
1,2,3-Trichlorobenzene	0.778	0.838	0.604	0.715	0.685	0.684	0.713	0.727	0.687	0.682	0.785										0.718156	8.81	0.088	1	
1-Methylnaphthalene	1.372	1.011	0.904	0.886	0.89	0.981	1.055	1.065	1.031	1.071	1.152										1.037947	13.4	0.134	1	
2-Methylnaphthalene	0.773	0.789	0.848	0.842	0.878	0.86	0.889	0.888	0.838	0.87	0.937										0.855519	5.39	0.054	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007288	5.23	0.052	1	
Bromoethane												0.368	0.364	0.397	0.348	0.383	0.357	0.357	0.348	0.346	0.36306	4.77	0.048	1	
2-PROPANOL												0.09	0.056	0.046	0.046	0.045	0.044	0.041	0.037	0.037	0.049084	33.36	0.992	0	
Methyl Acetate												0.418	0.454	0.431	0.441	0.438	0.438	0.421	0.414	0.397	0.428083	4	0.04	1	0.1
ACETONITRILE												0.066	0.072	0.067	0.068	0.07	0.069	0.068	0.065	0.065	0.067855	3.4	0.034	1	
ALLYL CHLORIDE												0.244	0.274	0.246	0.255	0.262	0.249	0.239	0.246	0.243	0.25095	4.35	0.043	1	
tert-BUTYL ALCOHOL												0.075	0.087	0.085	0.095	0.102	0.099	0.09	0.092	0.089	0.090417	8.88	0.089	1	
chloroprene												0.804	0.878	0.803	0.829	0.835	0.822	0.787	0.79	0.768	0.812852	4	0.04	1	
ETHYL TERT-BUTYL ETHER												1.532	1.715	1.644	1.59	1.658	1.602	1.602	1.577	1.543	1.607081	3.59	0.036	1	
PROPIONITRILE												0.069	0.072	0.068	0.069	0.069	0.07	0.066	0.065	0.063	0.067706	4.05	0.04	1	
Ethyl Acetate												0.519	0.536	0.506	0.521	0.527	0.532	0.51	0.505	0.486	0.515772	3.06	0.031	1	
METHACRYLONITRILE												0.184	0.203	0.189	0.194	0.192	0.193	0.187	0.183	0.177	0.189154	4.01	0.04	1	
Cyclohexane												0.85	0.879	0.802	0.839	0.793	0.825	0.808	0.799	0.788	0.820293	3.72	0.037	1	0.1
tert-butyl formate												0.505	0.542	0.517	0.521	0.521	0.518	0.501	0.496	0.48	0.511156	3.47	0.035	1	

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Method	: V807C24O	Review Protocol	: SW846	Released On	: 3/25/2015 2:24:29 PM

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ISOBUTANOL												0.035	0.033	0.032	0.032	0.032	0.032	0.031	0.03	0.03	0.031949	5.07	0.051	1	
I-Amyl Alcohol												0.055	0.06	0.044	0.053	0.054	0.049	0.046	0.049	0.041	0.050268	11.59	0.116	1	
TERT-AMYL METHYL ETHER												1.377	1.378	1.359	1.341	1.356	1.351	1.327	1.322	1.292	1.344875	2.06	0.021	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.01	0.01	0.009	0.01	0.01	0.01	0.01	0.009	0.009	0.009641	3.43	0.034	1	
Methyl Cyclohexane												1.102	0.797	0.654	0.623	0.606	0.587	0.575	0.586	0.569	0.677747	25.66	1	0	0.1
2-nitropropane												0.117	0.107	0.111	0.109	0.113	0.111	0.109	0.106	0.099	0.108981	4.59	0.046	1	
METHYL METHACRYLATE												0.289	0.313	0.291	0.303	0.308	0.301	0.294	0.287	0.279	0.296007	3.66	0.037	1	
1,4-DIOXANE												0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.00326	4.83	0.048	1	
n-octane												0.289	0.332	0.299	0.288	0.322	0.289	0.297	0.289	0.279	0.298182	5.88	0.059	1	
3,3-DIMETHYL-1-BUTANOL												0.032	0.029	0.027	0.031	0.031	0.031	0.029	0.029	0.028	0.02982	5.35	0.053	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.959	2.103	1.97	2.099	2.074	2.027	2.082	1.969	2.027	2.034599	2.85	0.029	1	
CIS-1,4-DICHLORO-2-BUTENE												0.508	0.59	0.553	0.622	0.597	0.566	0.591	0.578	0.56	0.57368	5.66	0.057	1	
Cyclohexanone												0.339	0.35	0.355	0.43	0.457					0.385958	13.84	0.138	1	
PENTACHLOROETHANE												0.864	0.996	0.932	0.994	0.948	0.914	0.941	0.912	0.936	0.937291	4.37	0.044	1	
Hexachloroethane												1.133	1.101	1.101	1.118	1.113	1.061	1.156	1.082	1.141	1.111675	2.67	0.027	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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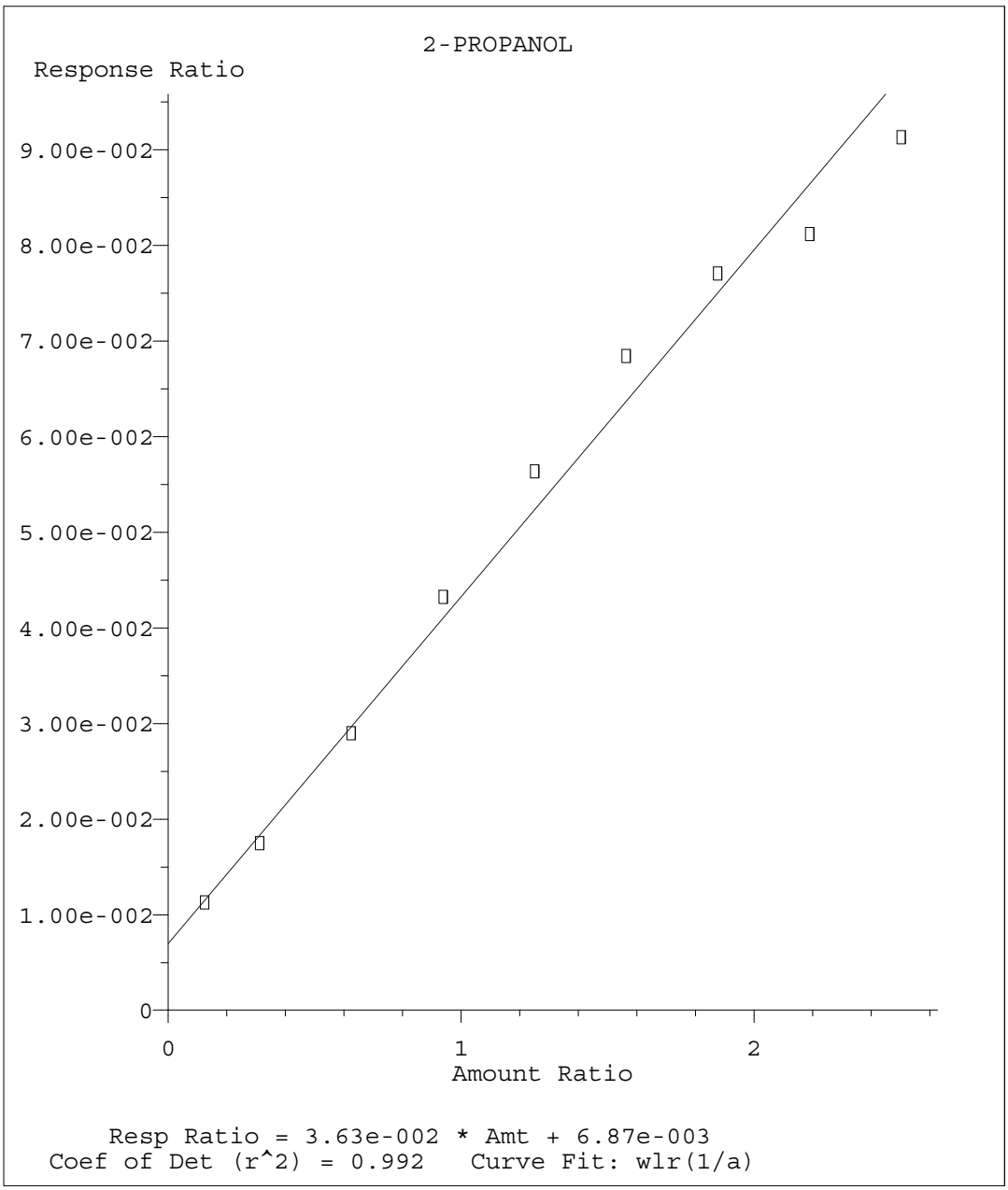

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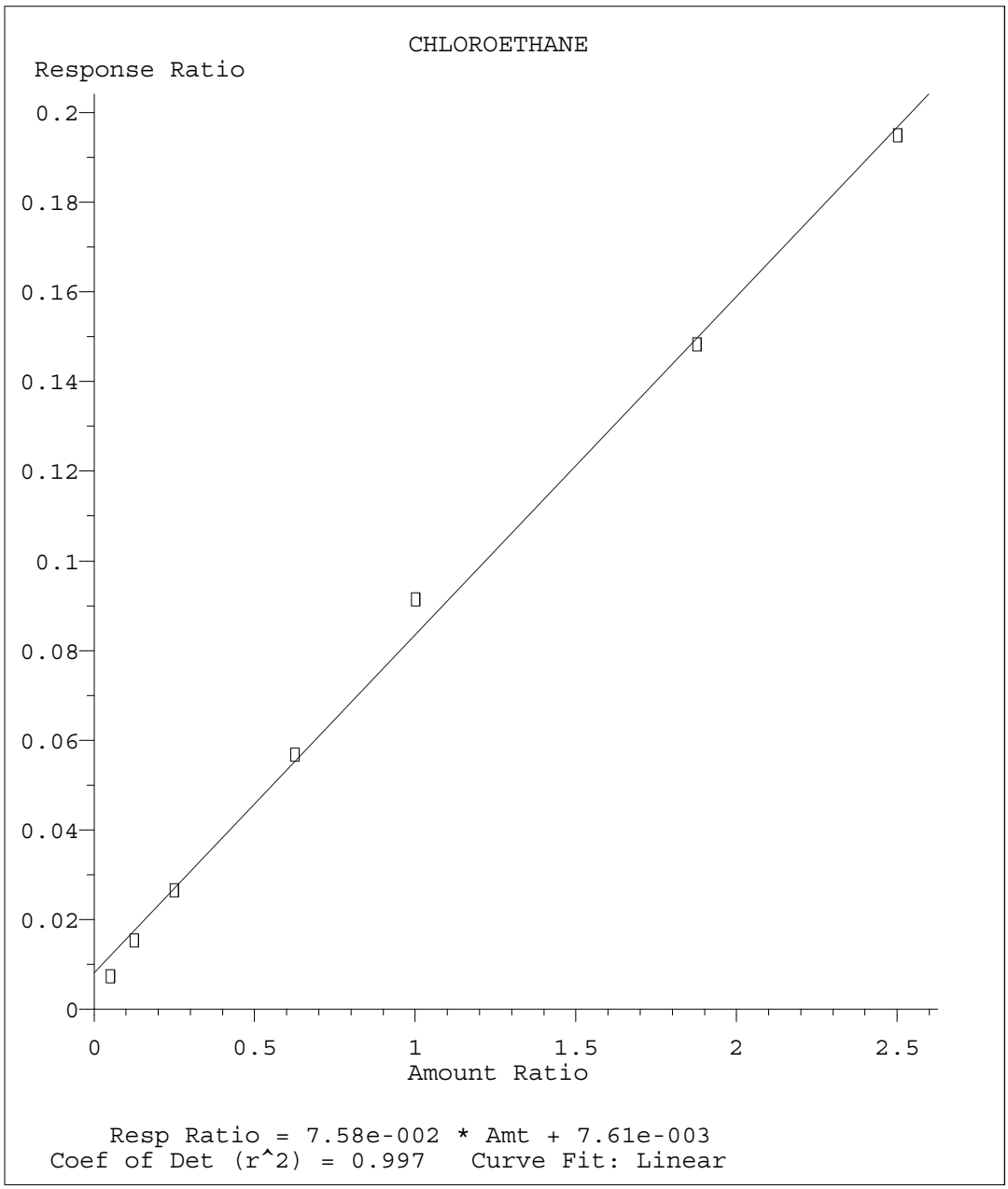
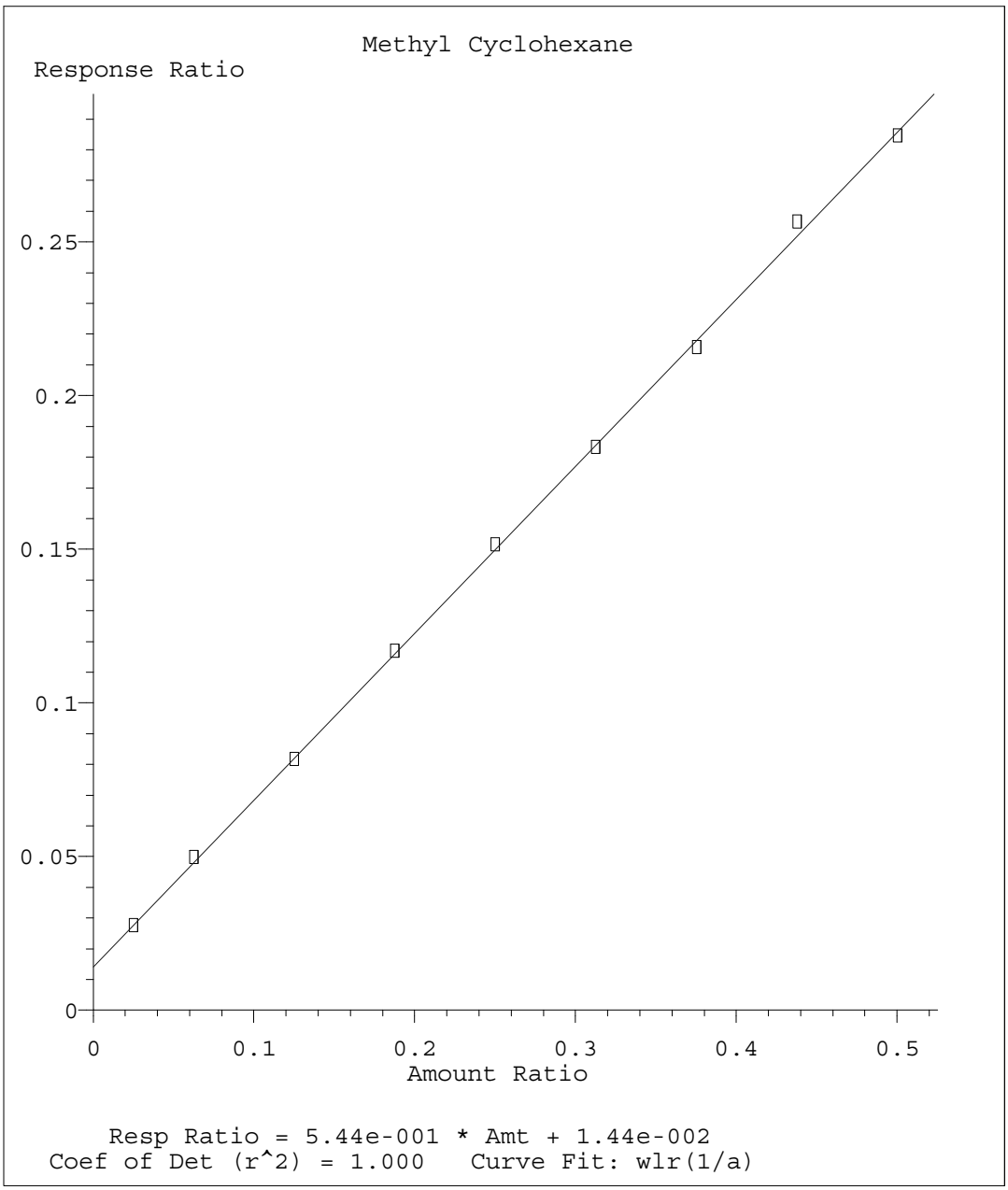
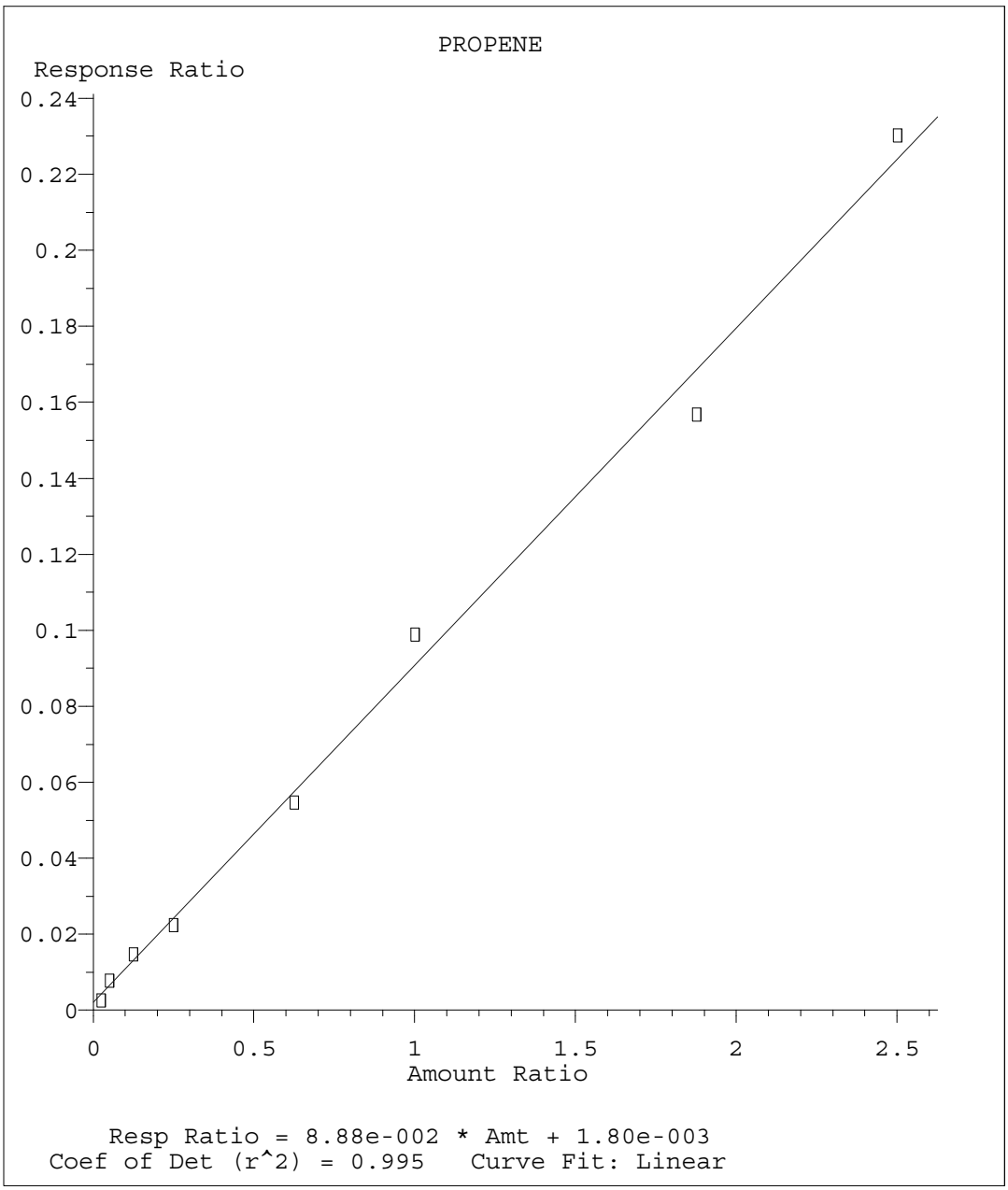


Method Name: C:\msdchem\1\methods\V807C24O.M



Method Name: C:\msdchem\1\methods\V807C24O.M



Method Name: C:\msdchem\1\methods\V807C24O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

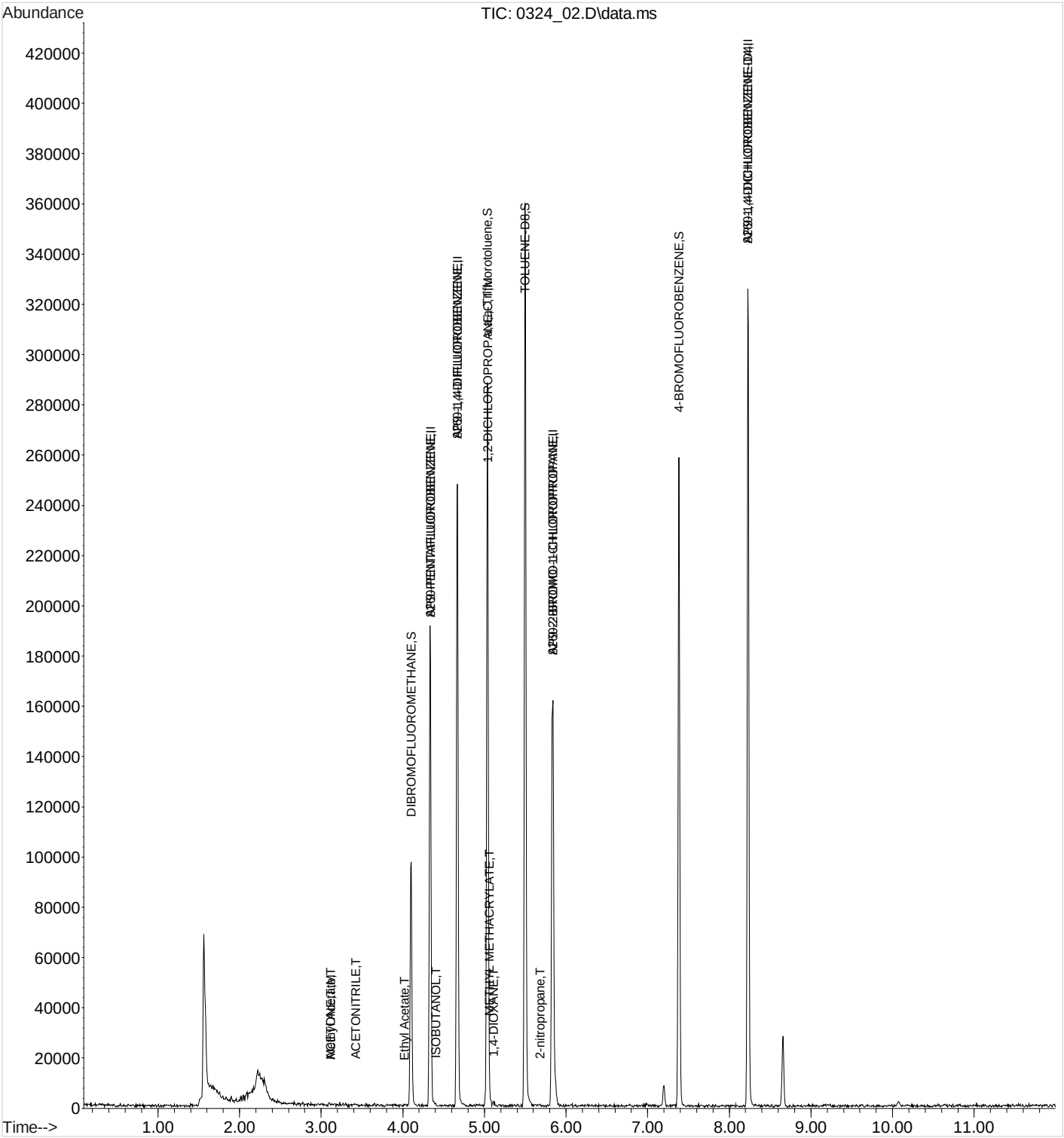
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	96061	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	155686	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	26634	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	70637	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	96061	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	155686	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	26634	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	70637	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.104	111	47469	40.6971382	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.74%			
46) a,a,a-Trifluorotoluene	5.034	146	89433	43.3827992	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.46%			
50) TOLUENE-D8	5.497	98	188062	42.7278807	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.82%			
68) 4-BROMOFLUOROBENZENE	7.383	95	73941	43.3440108	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.36%			
Target Compounds						Qvalue
16) ACETONE	3.118	43	1250	1.7168142	ppb #	44
43) 1,2-DICHLOROPROPANE	5.040	62	1941	2.3788060	ppb #	27
100) Methyl Acetate	3.118	43	1250	1.2158904	ppb #	58
101) ACETONITRILE	3.422	41	601	3.6880989	ppb #	33
107) Ethyl Acetate	4.018	43	603	0.4868245	ppb #	69
111) ISOBUTANOL	4.402	43	879	11.4564341	ppb #	75
117) 2-nitropropane	5.679	43	539	1.2707116	ppb #	15
118) METHYL METHACRYLATE	5.059	41	812	0.7047966	ppb #	19
119) 1,4-DIOXANE	5.114	88	971	76.5157348	ppb #	30

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
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Quant Time: Mar 25 13:50:38 2015
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Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

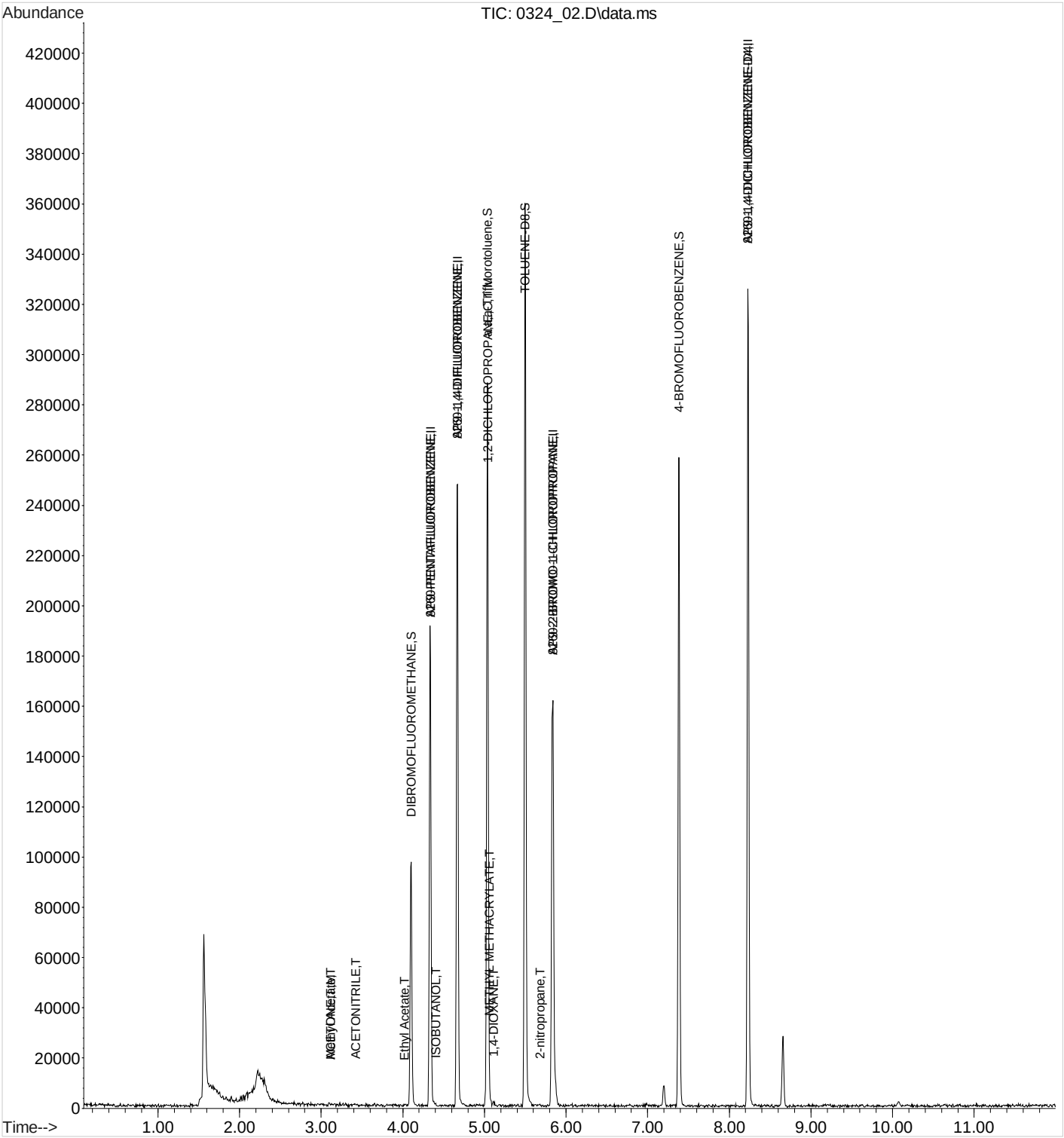
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	96061	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	155686	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	26634	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	70637	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	96061	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	155686	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	26634	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	70637	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.104	111	47469	40.6971382 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.74%		
46) a,a,a-Trifluorotoluene	5.034	146	89433	43.3827992 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.46%		
50) TOLUENE-D8	5.497	98	188062	42.7278807 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.82%		
68) 4-BROMOFLUOROBENZENE	7.383	95	73941	43.3440108 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.36%		
Target Compounds					Qvalue
16) ACETONE	3.118	43	1250	1.7168142 ppb	# 44
43) 1,2-DICHLOROPROPANE	5.040	62	1941	2.3788060 ppb	# 27
100) Methyl Acetate	3.118	43	1250	1.2158904 ppb	# 58
101) ACETONITRILE	3.422	41	601	3.6880989 ppb	# 33
107) Ethyl Acetate	4.018	43	603	0.4868245 ppb	# 69
111) ISOBUTANOL	4.402	43	879	11.4564341 ppb	# 75
117) 2-nitropropane	5.679	43	539	1.2707116 ppb	# 15
118) METHYL METHACRYLATE	5.059	41	812	0.7047966 ppb	# 19
119) 1,4-DIOXANE	5.114	88	971	76.5157348 ppb	# 30

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 02.D
Acq On : 24 Mar 2015 11:10 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10A.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : RL VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:52:09 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	481199	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	807328	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	146236	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	375531	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	481199	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	807328	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.838	79	146236	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	375531	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	255255	43.6868200 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.22%		
46) a,a,a-Trifluorotoluene	5.034	146	464565	43.4576066 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.64%		
50) TOLUENE-D8	5.497	98	1000266	43.8253460 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.56%		
68) 4-BROMOFLUOROBENZENE	7.383	95	377978	40.3545395 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.89%		
Target Compounds					Qvalue
3) PROPENE	1.670	41	1205	0.3183350 ppb #	36
4) DICHLORODIFLUOROMETHANE	1.707	85	6928	1.1238187 ppb	99
5) CHLOROMETHANE	1.889	50	9567	1.2244290 ppb	95
6) VINYL CHLORIDE	1.950	62	6806	0.9447870 ppb #	93
7) 1,3-BUTADIENE	1.962	39	10290	1.8778354 ppb	84
8) BROMOMETHANE	2.206	94	6676	1.7155838 ppb #	79
9) CHLOROETHANE	2.303	66	2202	Below Cal #	46
10) TRICHLOROFLUOROMETHANE	2.394	101	8974	1.0732147 ppb #	93
11) DICHLOROFLUOROMETHANE	2.431	67	11133	1.0126638 ppb #	80
12) ETHYL ETHER	2.595	59	6030	1.2310680 ppb #	86
13) ACROLEIN	2.942	56	6350	5.9319909 ppb	90
14) 1,1-DICHLOROETHENE	2.741	61	9595	1.0844607 ppb #	91
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	4499	0.9140343 ppb #	71
16) ACETONE	3.124	43	21620	5.9277701 ppb	99
17) IODOMETHANE	2.850	142	30891	4.8757514 ppb	97
18) CARBON DISULFIDE	2.777	76	20686	1.1248129 ppb #	69
19) METHYLENE CHLORIDE	3.100	84	7499	1.3018131 ppb	81
20) ACRYLONITRILE	3.580	53	10049	4.3016641 ppb #	80
21) n-Hexane	3.228	56	7286	1.2326434 ppb #	93
22) TRANS-1,2-DICHLOROETHENE	3.197	96	5463	1.0113626 ppb #	89
23) METHYL TERT-BUTYL ETHER	3.240	73	17930	1.0580694 ppb	98
24) 1,1-DICHLOROETHANE	3.550	63	12299	1.1702221 ppb	100
25) VINYL ACETATE	3.660	43	51955	5.1941277 ppb	98
26) DI-ISOPROPYL ETHER	3.441	45	22185	1.0504864 ppb	99
27) 2,2-Dichloropropane	3.921	77	9586	1.0184474 ppb #	67
28) CIS-1,2-DICHLOROETHENE	3.860	96	7353	1.1904612 ppb	80
29) 2-BUTANONE (MEK)	4.165	72	4286	4.6220776 ppb	75
30) BROMOCHLOROMETHANE	3.976	130	3997	1.1931296 ppb	92
31) TETRAHYDROFURAN	4.104	42	3642	1.7070055 ppb #	70
32) CHLOROFORM	3.994	83	11212	1.0960843 ppb	85
34) 1,1,1-TRICHLOROETHANE	4.128	97	8767	1.0502145 ppb	91
35) CARBON TETRACHLORIDE	4.092	117	7043	0.9376133 ppb #	64
36) 1,1-Dichloropropene	4.195	75	9255	1.1539501 ppb #	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10A.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : RL VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:52:09 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	25329	1.0035598 ppb		96
38)	HEPTANE	4.280	43	10534	0.9214033 ppb	#	75
39)	BENZENE	4.341	78	21585	0.9689759 ppb	#	53
40)	1,2-DICHLOROETHANE	4.457	62	8126	1.0246546 ppb	#	75
42)	TRICHLOROETHENE	4.663	130	5351	1.0219729 ppb		83
43)	1,2-DICHLOROPROPANE	4.986	62	4383	1.0358682 ppb	#	84
44)	DIBROMOMETHANE	4.925	93	3261	0.9788317 ppb		90
45)	BROMODICHLOROMETHANE	5.010	83	8998	1.1307895 ppb	#	77
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	10259	1.0622542 ppb	#	90
49)	4-METHYL-2-PENTANONE (...	5.746	58	12413	5.0396682 ppb		81
51)	TOLUENE	5.533	91	27169	1.1830316 ppb		96
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	2344	1.1370416 ppb		93
54)	1,1,2-TRICHLOROETHANE	5.898	97	6039	1.1414092 ppb	#	84
55)	TETRACHLOROETHENE	5.795	164	3962	0.9282883 ppb		94
56)	1,3-Dichloropropane	6.081	76	8782	0.9517374 ppb	#	82
57)	2-HEXANONE	6.294	58	13625	4.8890834 ppb		78
58)	CHLORODIBROMOMETHANE	6.026	129	4999	0.9191668 ppb	#	85
59)	1,2-DIBROMOETHANE	6.203	107	5750	1.1052038 ppb		90
60)	CHLOROBENZENE	6.543	112	15089	1.0085774 ppb		91
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	4587	0.9221925 ppb	#	79
62)	ETHYLBENZENE	6.531	106	9926	1.2055246 ppb		84
63)	M&P-XYLENE	6.634	106	21776	2.1137909 ppb		96
64)	O-XYLENE	6.939	106	9456	0.9522316 ppb		76
65)	STYRENE	6.981	104	15102	0.9430224 ppb	#	85
66)	Bromoform	7.018	173	3189	0.9583338 ppb	#	68
67)	Isopropylbenzene	7.158	105	28165	1.0507066 ppb	#	94
69)	Bromobenzene	7.474	77	12708	1.0319227 ppb		88
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	8717	1.2158767 ppb	#	86
71)	1,2,3-TRICHLOROPROPANE	7.638	110	2048	1.0784954 ppb	#	50
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	3148	1.3964643 ppb	#	57
73)	n-Propylbenzene	7.462	91	30670	0.9650530 ppb		96
74)	4-ETHYLTOLUENE	7.541	105	26342	1.0173288 ppb		100
75)	2-Chlorotoluene	7.602	126	6464	1.1170542 ppb	#	78
76)	4-Chlorotoluene	7.723	91	19994	0.9929534 ppb		98
77)	1,3,5-Trimethylbenzene	7.596	105	22036	0.9921743 ppb		97
78)	tert-Butylbenzene	7.845	119	18160	0.9767555 ppb		87
79)	1,2,4-Trimethylbenzene	7.900	105	23500	1.0211273 ppb		99
80)	sec-Butylbenzene	7.985	105	31110	1.0556019 ppb		93
81)	1,3-DICHLOROBENZENE	8.180	146	12385	1.0245014 ppb		94
82)	p-Isopropyltoluene	8.082	119	22601	0.9356130 ppb		95
83)	DICYCLOPENTADIENE	8.095	66	26730	1.0017173 ppb		95
85)	1,4-DICHLOROBENZENE	8.247	146	11804	1.0115278 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.247	105	22579	1.0649471 ppb		99
87)	1,2-DICHLOROBENZENE	8.581	146	10504	0.9800276 ppb	#	90
88)	n-Butylbenzene	8.417	91	23577	1.0362183 ppb		91
89)	1,2-Dibromo-3-chloropr...	9.226	157	679	0.4903333 ppb	#	15
90)	1,2,4-Trichlorobenzene	9.774	180	6647	0.9270834 ppb		93
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	4429	1.0670611 ppb		96
92)	Naphthalene	10.047	128	19627	0.9870413 ppb		98
93)	1,2,3-Trichlorobenzene	10.206	180	5674	0.8415599 ppb	#	72
94)	1-Methylnaphthalene	10.863	142	8490	0.8712577 ppb	#	93
95)	2-Methylnaphthalene	10.984	142	7958	0.9908056 ppb		94
97)	ETHANOL	2.662	45	868	9.8996056 ppb	#	28
99)	2-PROPANOL	3.021	45	663	Below Cal	#	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10A.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : RL VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:52:09 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

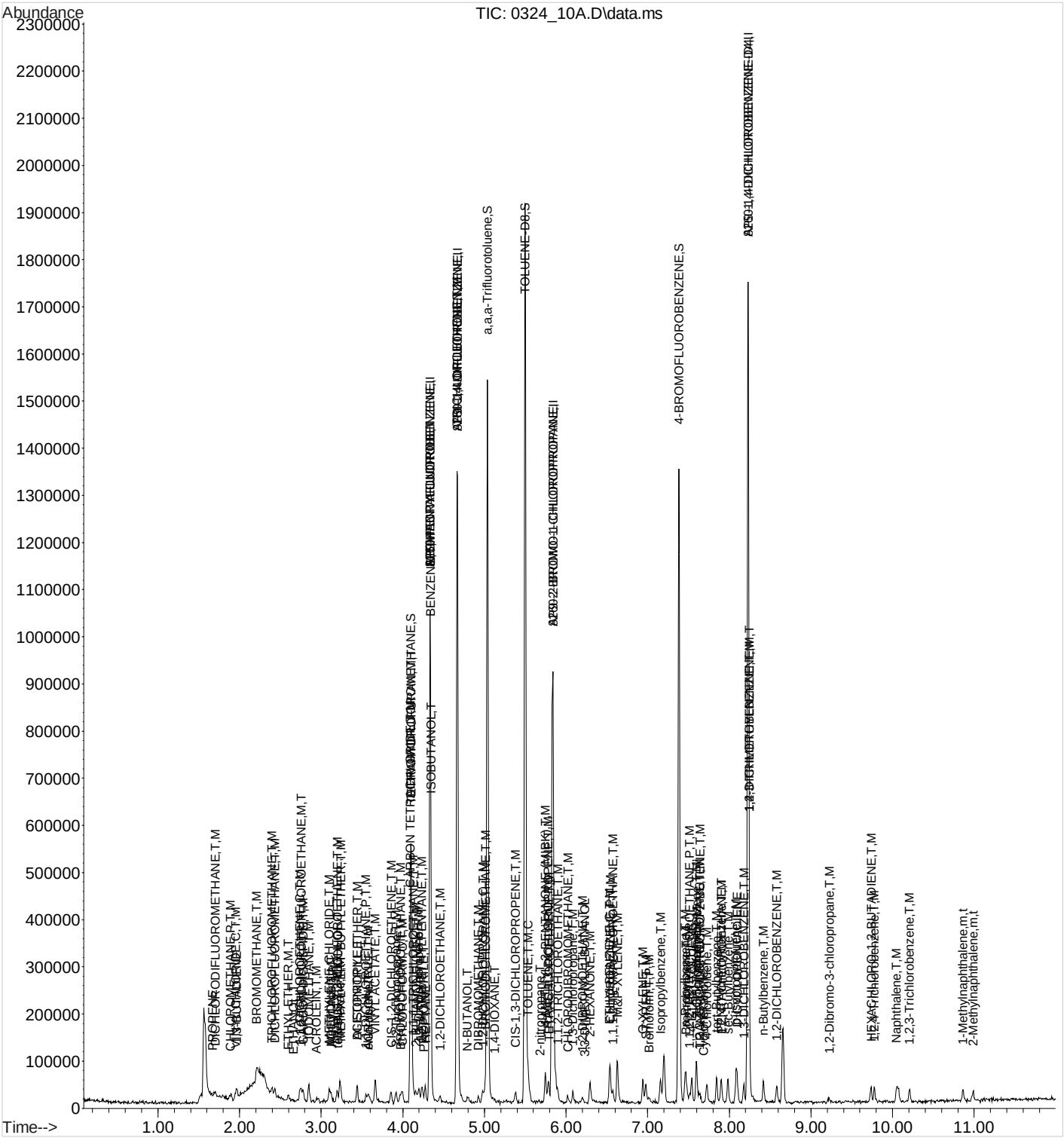
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Methyl Acetate	3.124	43	21620	4.1981940 ppb #	58
101) ACETONITRILE	3.441	41	5226	6.4020621 ppb #	55
103) tert-BUTYL ALCOHOL	3.203	59	859	0.7897333 ppb #	62
104) chloroprene	3.580	53	10049	1.0276537 ppb #	28
106) PROPIONITRILE	4.256	54	510	0.6261462 ppb #	19
108) METHACRYLONITRILE	4.335	67	2832	1.2445526 ppb #	1
111) ISOBUTANOL	4.347	43	616	1.6027423 ppb #	1
115) N-BUTANOL	4.791	56	5874	30.1861596 ppb	94
117) 2-nitropropane	5.679	43	1060	0.4819074 ppb #	1
119) 1,4-DIOXANE	5.126	88	1399	21.2592913 ppb #	1
121) 3,3-DIMETHYL-1-BUTANOL	6.233	57	1655	2.7497538 ppb #	13
125) Cyclohexanone	7.687	55	1666	1.1807023 ppb #	18
126) PENTACHLOROETHANE	7.900	117	1392	0.4062288 ppb #	10

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10A.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : RL VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:52:09 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12A.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : RL VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:10:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	465607	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	790470	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	143490	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	372443	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	465607	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	790470	40.0000000 ppb	# 0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	143490	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.228	152	372443	40.0000000 ppb	-0.01
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	250369	44.2855400 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.71%		
46) a,a,a-Trifluorotoluene	5.034	146	458552	43.8099272 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.52%		
50) TOLUENE-D8	5.497	98	970117	43.4108795 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.53%		
68) 4-BROMOFLUOROBENZENE	7.383	95	380727	41.4259249 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.56%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	6844	5.8092910 ppb #	78
4) DICHLORODIFLUOROMETHANE	1.707	85	28104	4.7115275 ppb	92
5) CHLOROMETHANE	1.877	50	39138	5.1768036 ppb	95
6) VINYL CHLORIDE	1.950	62	35613	5.1092334 ppb #	94
7) 1,3-BUTADIENE	1.962	39	31927	6.0215107 ppb	86
8) BROMOMETHANE	2.200	94	21624	5.7429739 ppb	95
9) CHLOROETHANE	2.285	66	7130	4.0682293 ppb	76
10) TRICHLOROFLUOROMETHANE	2.394	101	41426	5.1201035 ppb	94
11) DICHLOROFLUOROMETHANE	2.431	67	56008	5.2651212 ppb	97
12) ETHYL ETHER	2.589	59	25432	5.3659976 ppb #	89
13) ACROLEIN	2.948	56	28551	27.5647011 ppb	87
14) 1,1-DICHLOROETHENE	2.741	61	42143	4.9226563 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	23835	5.0045713 ppb #	96
16) ACETONE	3.118	43	88027	24.9434647 ppb	99
17) IODOMETHANE	2.844	142	142134	23.1853030 ppb	99
18) CARBON DISULFIDE	2.777	76	87455	4.9146617 ppb	97
19) METHYLENE CHLORIDE	3.100	84	25859	4.6394043 ppb	91
20) ACRYLONITRILE	3.574	53	51741	22.8904156 ppb	96
21) n-Hexane	3.222	56	31611	5.5270288 ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.197	96	26644	5.0977713 ppb	93
23) METHYL TERT-BUTYL ETHER	3.240	73	81684	4.9816831 ppb	86
24) 1,1-DICHLOROETHANE	3.550	63	49998	4.9165032 ppb	96
25) VINYL ACETATE	3.660	43	252861	26.1259649 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	103371	5.0586537 ppb	96
27) 2,2-Dichloropropane	3.915	77	45472	4.9928724 ppb	96
28) CIS-1,2-DICHLOROETHENE	3.854	96	27501	4.6015525 ppb	95
29) 2-BUTANONE (MEK)	4.158	72	22657	25.2518201 ppb	94
30) BROMOCHLOROMETHANE	3.970	130	16228	5.0063788 ppb	92
31) TETRAHYDROFURAN	4.098	42	11431	5.5371263 ppb	94
32) CHLOROFORM	3.994	83	46503	4.6983681 ppb	93
34) 1,1,1-TRICHLOROETHANE	4.128	97	41469	5.1339992 ppb	98
35) CARBON TETRACHLORIDE	4.091	117	33758	4.6445968 ppb	81
36) 1,1-Dichloropropene	4.189	75	40341	5.1983139 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12A.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : RL VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:10:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.238	57	123637	5.0626614 ppb		96
38)	HEPTANE	4.274	43	52918	4.7837129 ppb		90
39)	BENZENE	4.341	78	108454	5.0316648 ppb	#	89
40)	1,2-DICHLOROETHANE	4.450	62	38007	4.9530131 ppb	#	94
42)	TRICHLOROETHENE	4.663	130	25566	4.9869136 ppb		94
43)	1,2-DICHLOROPROPANE	4.986	62	22114	5.3378327 ppb		98
44)	DIBROMOMETHANE	4.925	93	16711	5.1229994 ppb		99
45)	BROMODICHLOROMETHANE	5.004	83	39670	5.0916975 ppb	#	97
47)	2-CHLOROETHYL VINYL ETHER	5.314	63	3231	21.7930395 ppb	#	72
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	47118	4.9828164 ppb	#	96
49)	4-METHYL-2-PENTANONE (...	5.746	58	60463	25.0714527 ppb		99
51)	TOLUENE	5.533	91	111944	4.9783812 ppb		97
52)	TRANS-1,3-DICHLOROPROPENE	5.789	110	10143	5.0251590 ppb		83
54)	1,1,2-TRICHLOROETHANE	5.898	97	22734	4.3791001 ppb		98
55)	TETRACHLOROETHENE	5.789	164	19988	4.7727687 ppb		95
56)	1,3-Dichloropropane	6.087	76	41766	4.6129551 ppb		97
57)	2-HEXANONE	6.294	58	65925	24.1086968 ppb		88
58)	CHLORODIBROMOMETHANE	6.026	129	25271	4.7355048 ppb		98
59)	1,2-DIBROMOETHANE	6.202	107	24883	4.8742740 ppb		98
60)	CHLOROBENZENE	6.537	112	70756	4.8199741 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	22298	4.5686873 ppb	#	87
62)	ETHYLBENZENE	6.537	106	38496	4.7648592 ppb		95
63)	M&P-XYLENE	6.628	106	99031	9.7968790 ppb		98
64)	O-XYLENE	6.939	106	45700	4.6901202 ppb		97
65)	STYRENE	6.975	104	76264	4.8533295 ppb		96
66)	Bromoform	7.018	173	14999	4.5936430 ppb		95
67)	Isopropylbenzene	7.158	105	125990	4.7900545 ppb		97
69)	Bromobenzene	7.474	77	56238	4.6540654 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	32805	4.6633197 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.632	110	8689	4.6632727 ppb	#	75
72)	TRANS-1,4-DICHLORO-2-B...	7.650	53	11077	5.0078342 ppb	#	90
73)	n-Propylbenzene	7.462	91	148606	4.7654774 ppb		99
74)	4-ETHYLTOLUENE	7.541	105	120153	4.7291150 ppb		98
75)	2-Chlorotoluene	7.602	126	24391	4.2957119 ppb	#	80
76)	4-Chlorotoluene	7.723	91	92329	4.6730451 ppb		99
77)	1,3,5-Trimethylbenzene	7.596	105	103579	4.7529101 ppb		99
78)	tert-Butylbenzene	7.845	119	90077	4.9376079 ppb		97
79)	1,2,4-Trimethylbenzene	7.900	105	108732	4.8150640 ppb		99
80)	sec-Butylbenzene	7.979	105	137696	4.7616135 ppb		99
81)	1,3-DICHLOROBENZENE	8.174	146	56274	4.7441347 ppb		96
82)	p-Isopropyltoluene	8.082	119	114024	4.8105812 ppb		99
83)	DICYCLOPENTADIENE	8.095	66	131026	5.0042196 ppb		99
85)	1,4-DICHLOROBENZENE	8.247	146	52384	4.5261949 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.247	105	102943	4.8956021 ppb		96
87)	1,2-DICHLOROBENZENE	8.581	146	54715	5.1472584 ppb		95
88)	n-Butylbenzene	8.417	91	112120	4.9685740 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.220	157	6293	4.5821084 ppb		98
90)	1,2,4-Trichlorobenzene	9.774	180	35108	4.9372511 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	19788	4.8069708 ppb		96
92)	Naphthalene	10.047	128	92444	4.6875522 ppb		96
93)	1,2,3-Trichlorobenzene	10.206	180	31884	4.7682001 ppb		98
94)	1-Methylnaphthalene	10.863	142	41421	4.2859342 ppb		99
95)	2-Methylnaphthalene	10.984	142	40860	5.1294271 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12A.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : RL VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:10:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

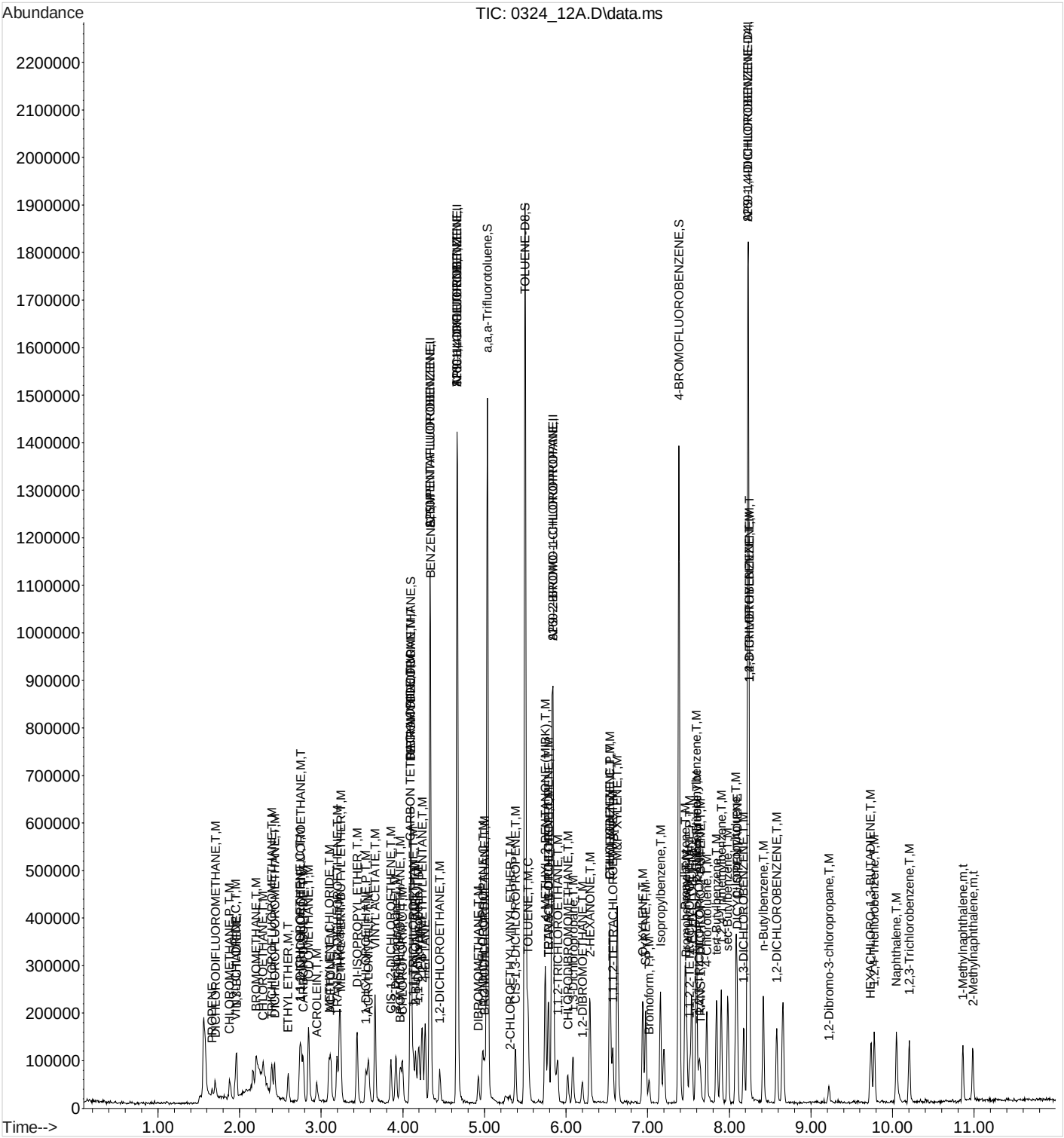
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12A.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : RL VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:10:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 23A.D
Acq On : 25 Mar 2015 1:58 am
Operator : 621
Sample : RL VMS 1a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:49:32 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	484985	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	796425	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	146644	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	372520	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	484985	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	796425	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.838	79	146644	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	372520	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.104	111	251286	42.6717916 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.68%		
46) a,a,a-Trifluorotoluene	5.034	146	450451	42.7141730 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.79%		
50) TOLUENE-D8	5.497	98	991935	44.0553030 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.14%		
68) 4-BROMOFLUOROBENZENE	7.383	95	380938	40.5574061 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.39%		
Target Compounds					Qvalue
3) PROPENE	1.670	41	1443	0.5304948 ppb	# 43
7) 1,3-BUTADIENE	1.974	39	2401	0.4347411 ppb	# 39
8) BROMOMETHANE	2.218	94	2561	0.6529826 ppb	# 93
9) CHLOROETHANE	2.242	66	531	Below Cal	# 1
13) ACROLEIN	2.948	56	592	0.5487125 ppb	# 1
16) ACETONE	3.118	43	3277	0.8914737 ppb	90
17) IODOMETHANE	2.844	142	3463	0.5423236 ppb	# 84
20) ACRYLONITRILE	3.532	53	48724	20.6944071 ppb	# 54
25) VINYL ACETATE	3.660	43	6558	0.6505087 ppb	# 78
31) TETRAHYDROFURAN	4.098	42	693	0.3222735 ppb	# 1
37) 2,2,4-TRIMETHYLPENTANE	4.244	57	49928	1.9627536 ppb	# 2
38) HEPTANE	4.244	43	12893	1.1189402 ppb	# 1
43) 1,2-DICHLOROPROPANE	5.034	62	9713	2.3269741 ppb	# 9
49) 4-METHYL-2-PENTANONE (...	5.844	58	1596	0.6568455 ppb	71
57) 2-HEXANONE	6.294	58	2523	0.9028138 ppb	78
78) tert-Butylbenzene	7.882	119	17968	0.9637397 ppb	# 31
90) 1,2,4-Trichlorobenzene	9.774	180	3431	0.4824031 ppb	# 63
92) Naphthalene	10.047	128	8268	0.4191583 ppb	# 93
93) 1,2,3-Trichlorobenzene	10.206	180	2596	0.3881473 ppb	90
94) 1-Methylnaphthalene	10.863	142	9076	0.9389222 ppb	99
95) 2-Methylnaphthalene	10.984	142	7194	0.9029239 ppb	86
97) ETHANOL	2.680	45	9907	112.1080348 ppb	# 84
98) Bromoethane	2.911	108	4460	1.0131831 ppb	93
99) 2-PROPANOL	3.009	45	5456	4.8169179 ppb	# 59
100) Methyl Acetate	3.179	43	101400	19.5362487 ppb	# 95
101) ACETONITRILE	3.404	41	40052	48.6823007 ppb	# 93
102) ALLYL CHLORIDE	3.033	76	14774	4.8555956 ppb	82
103) tert-BUTYL ALCOHOL	3.276	59	4523	4.1258200 ppb	# 55
104) chloroprene	3.532	53	48724	4.9438270 ppb	100
105) ETHYL TERT-BUTYL ETHER	3.641	59	18578	0.9534386 ppb	# 86
106) PROPIONITRILE	4.347	54	41611	50.6885830 ppb	# 66
107) Ethyl Acetate	4.031	43	62987	10.0722118 ppb	99
108) METHACRYLONITRILE	4.353	67	111501	48.6177853 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 23A.D
Acq On : 25 Mar 2015 1:58 am
Operator : 621
Sample : RL VMS 1a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:49:32 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

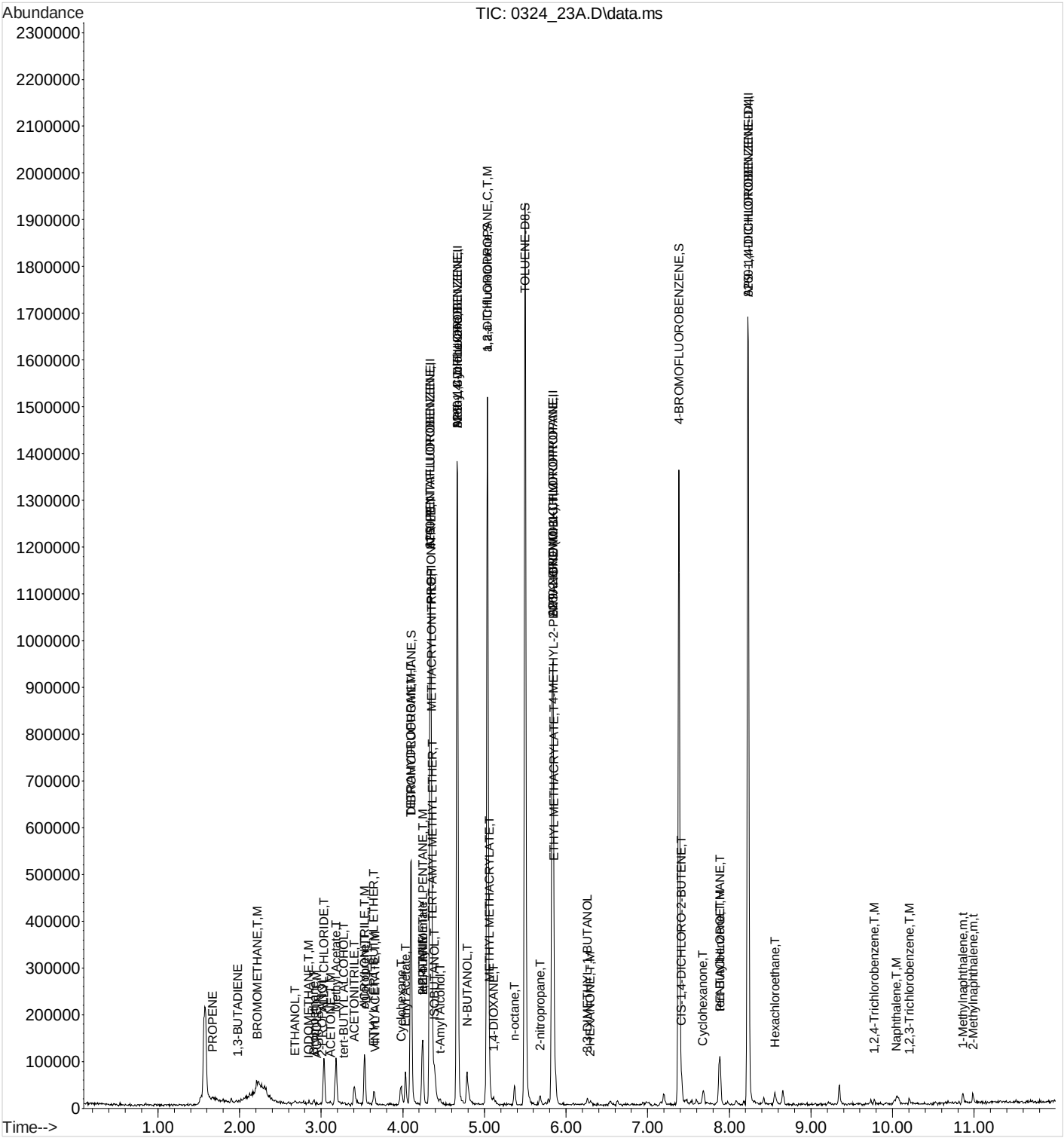
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
109) Cyclohexane	3.982	84	10304	1.0360204 ppb		91
110) tert-butyl formate	4.244	59	61177	9.8711111 ppb		90
111) ISOBUTANOL	4.390	43	42635	110.0640912 ppb	#	93
112) t-Amyl Alcohol	4.457	59	3344	5.4866202 ppb		86
113) TERT-AMYL METHYL ETHER	4.365	73	16701	1.0242176 ppb	#	51
115) N-BUTANOL	4.791	56	38263	199.3233009 ppb		99
116) Methyl Cyclohexane	4.669	83	21941	0.9670044 ppb	#	84
117) 2-nitropropane	5.679	43	11599	5.3454398 ppb	#	77
118) METHYL METHACRYLATE	5.059	41	28749	4.8779257 ppb	#	30
119) 1,4-DIOXANE	5.114	88	6652	102.4680426 ppb	#	58
120) n-octane	5.369	85	5748	0.9681673 ppb	#	82
121) 3,3-DIMETHYL-1-BUTANOL	6.257	57	6319	10.6426380 ppb		91
123) ETHYL METHACRYLATE	5.850	69	35915	4.8149602 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.413	53	9304	4.4238009 ppb	#	32
125) Cyclohexanone	7.675	55	12414	8.7733842 ppb		96
126) PENTACHLOROETHANE	7.882	117	15836	4.6085779 ppb		98
127) Hexachloroethane	8.557	117	4152	1.0187678 ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 23A.D
Acq On : 25 Mar 2015 1:58 am
Operator : 621
Sample : RL VMS 1a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:49:32 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 20.D
Acq On : 25 Mar 2015 1:00 am
Operator : 621
Sample : SSCV VMS 25 ppb 15C23960
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:09:12 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	504661	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	871432	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	151722	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	405708	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	504661	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	871432	40.0000000	ppb	# 0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.838	79	151722	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	405708	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.104	111	263326	42.9729224	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.43%			
46) a,a,a-Trifluorotoluene	5.034	146	488208	42.3097754	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.77%			
50) TOLUENE-D8	5.497	98	1073973	43.5932975	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.98%			
68) 4-BROMOFLUOROBENZENE	7.383	95	420483	43.2693185	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.17%			
Target Compounds						Qvalue
3) PROPENE	1.670	41	29507	25.5173480	ppb	97
4) DICHLORODIFLUOROMETHANE	1.707	85	130276	20.1501260	ppb	98
5) CHLOROMETHANE	1.877	50	168446	20.5562324	ppb	97
6) VINYL CHLORIDE	1.950	62	158684	21.0039067	ppb	99
7) 1,3-BUTADIENE	1.962	39	133976	23.3127827	ppb	95
8) BROMOMETHANE	2.206	94	104994	25.7267573	ppb	99
9) CHLOROETHANE	2.291	66	27305	24.5427671	ppb	97
10) TRICHLOROFLUOROMETHANE	2.394	101	188834	21.5330571	ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	246508	21.3800681	ppb	98
12) ETHYL ETHER	2.595	59	103750	20.1965795	ppb	99
13) ACROLEIN	2.948	56	105519	93.9901596	ppb	98
14) 1,1-DICHLOROETHENE	2.741	61	199258	21.4738340	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	115915	22.4548996	ppb	99
16) ACETONE	3.118	43	391888	102.4525092	ppb	96
17) IODOMETHANE	2.844	142	703140	105.8220961	ppb	99
18) CARBON DISULFIDE	2.777	76	406335	21.0674985	ppb	99
19) METHYLENE CHLORIDE	3.100	84	115746	19.1591504	ppb	89
20) ACRYLONITRILE	3.574	53	243492	99.3855656	ppb	98
21) n-Hexane	3.222	56	127506	20.5685592	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.191	96	122126	21.5580171	ppb	97
23) METHYL TERT-BUTYL ETHER	3.234	73	355633	20.0106368	ppb	90
24) 1,1-DICHLOROETHANE	3.550	63	239310	21.7112234	ppb	97
25) VINYL ACETATE	3.660	43	984555	93.8534467	ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	461395	20.8318994	ppb	97
27) 2,2-Dichloropropane	3.921	77	197682	20.0259577	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.854	96	130852	20.2002163	ppb	96
29) 2-BUTANONE (MEK)	4.158	72	105596	108.5819174	ppb	99
30) BROMOCHLOROMETHANE	3.970	130	69866	19.8858583	ppb	93
31) TETRAHYDROFURAN	4.098	42	47690	21.3131325	ppb	99
32) CHLOROFORM	3.994	83	215264	20.0658347	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.128	97	188527	21.5340414	ppb	98
35) CARBON TETRACHLORIDE	4.092	117	162082	20.5743371	ppb	91
36) 1,1-Dichloropropene	4.195	75	183246	21.7856288	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 20.D
Acq On : 25 Mar 2015 1:00 am
Operator : 621
Sample : SSCV VMS 25 ppb 15C23960
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:09:12 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	565342	21.3580418 ppb		99
38)	HEPTANE	4.274	43	256344	21.3798474 ppb		96
39)	BENZENE	4.341	78	489918	20.9705239 ppb		99
40)	1,2-DICHLOROETHANE	4.450	62	182324	21.9214606 ppb		98
42)	TRICHLOROETHENE	4.669	130	127182	22.5033203 ppb		100
43)	1,2-DICHLOROPROPANE	4.980	62	98834	21.6399331 ppb		100
44)	DIBROMOMETHANE	4.925	93	76198	21.1893350 ppb		100
45)	BROMODICHLOROMETHANE	5.004	83	170448	19.8446841 ppb		95
47)	2-CHLOROETHYL VINYL ETHER	5.314	63	13417	82.0896033 ppb	#	95
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	213880	20.5168225 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.746	58	283766	106.7338204 ppb		96
51)	TOLUENE	5.533	91	509504	20.5535484 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	44459	19.9799759 ppb		93
54)	1,1,2-TRICHLOROETHANE	5.892	97	107025	19.4969792 ppb		97
55)	TETRACHLOROETHENE	5.789	164	95940	21.6657555 ppb		94
56)	1,3-Dichloropropane	6.081	76	190343	19.8822867 ppb		98
57)	2-HEXANONE	6.288	58	306427	105.9799482 ppb		98
58)	CHLORODIBROMOMETHANE	6.026	129	117771	20.8715782 ppb		99
59)	1,2-DIBROMOETHANE	6.203	107	107232	19.8657370 ppb		95
60)	CHLOROBENZENE	6.537	112	322514	20.7779683 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	104696	20.2875075 ppb	#	96
62)	ETHYLBENZENE	6.537	106	185943	21.7664385 ppb		99
63)	M&P-XYLENE	6.628	106	444390	41.5770752 ppb		99
64)	O-XYLENE	6.939	106	219325	21.2877120 ppb		96
65)	STYRENE	6.975	104	354941	21.3623704 ppb		99
66)	Bromoform	7.018	173	78502	22.7378154 ppb		95
67)	Isopropylbenzene	7.158	105	584131	21.0033084 ppb		99
69)	Bromobenzene	7.474	77	250877	19.6352548 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.511	83	143944	19.3518191 ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.632	110	38964	19.7768733 ppb		92
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	45814	19.5884051 ppb		96
73)	n-Propylbenzene	7.462	91	692539	21.0032927 ppb		100
74)	4-ETHYLTOLUENE	7.541	105	561823	20.9130725 ppb		100
75)	2-Chlorotoluene	7.602	126	124157	20.6799664 ppb	#	95
76)	4-Chlorotoluene	7.723	91	415601	19.8935139 ppb		99
77)	1,3,5-Trimethylbenzene	7.596	105	456170	19.7964667 ppb		99
78)	tert-Butylbenzene	7.845	119	408611	21.1829195 ppb		99
79)	1,2,4-Trimethylbenzene	7.900	105	468129	19.6057431 ppb		97
80)	sec-Butylbenzene	7.985	105	635209	20.7741151 ppb		99
81)	1,3-DICHLOROBENZENE	8.180	146	258432	20.6048089 ppb		96
82)	p-Isopropyltoluene	8.082	119	531495	21.2067217 ppb		98
83)	DICYCLOPENTADIENE	8.095	66	603095	21.7840028 ppb		100
85)	1,4-DICHLOROBENZENE	8.247	146	242285	19.2179634 ppb	#	73
86)	1,2,3-TRIMETHYLBENZENE	8.241	105	465274	20.3125440 ppb		97
87)	1,2-DICHLOROBENZENE	8.581	146	239177	20.6554771 ppb		99
88)	n-Butylbenzene	8.417	91	494586	20.1204058 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.226	157	31276	20.9057175 ppb		96
90)	1,2,4-Trichlorobenzene	9.774	180	161464	20.8449604 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	89848	20.0366098 ppb		95
92)	Naphthalene	10.047	128	440083	20.4855782 ppb		98
93)	1,2,3-Trichlorobenzene	10.206	180	146221	20.0741730 ppb		98
94)	1-Methylnaphthalene	10.863	142	232586	22.0930021 ppb		97
95)	2-Methylnaphthalene	10.978	142	188669	21.7428913 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 20.D
Acq On : 25 Mar 2015 1:00 am
Operator : 621
Sample : SSCV VMS 25 ppb 15C23960
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:09:12 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration

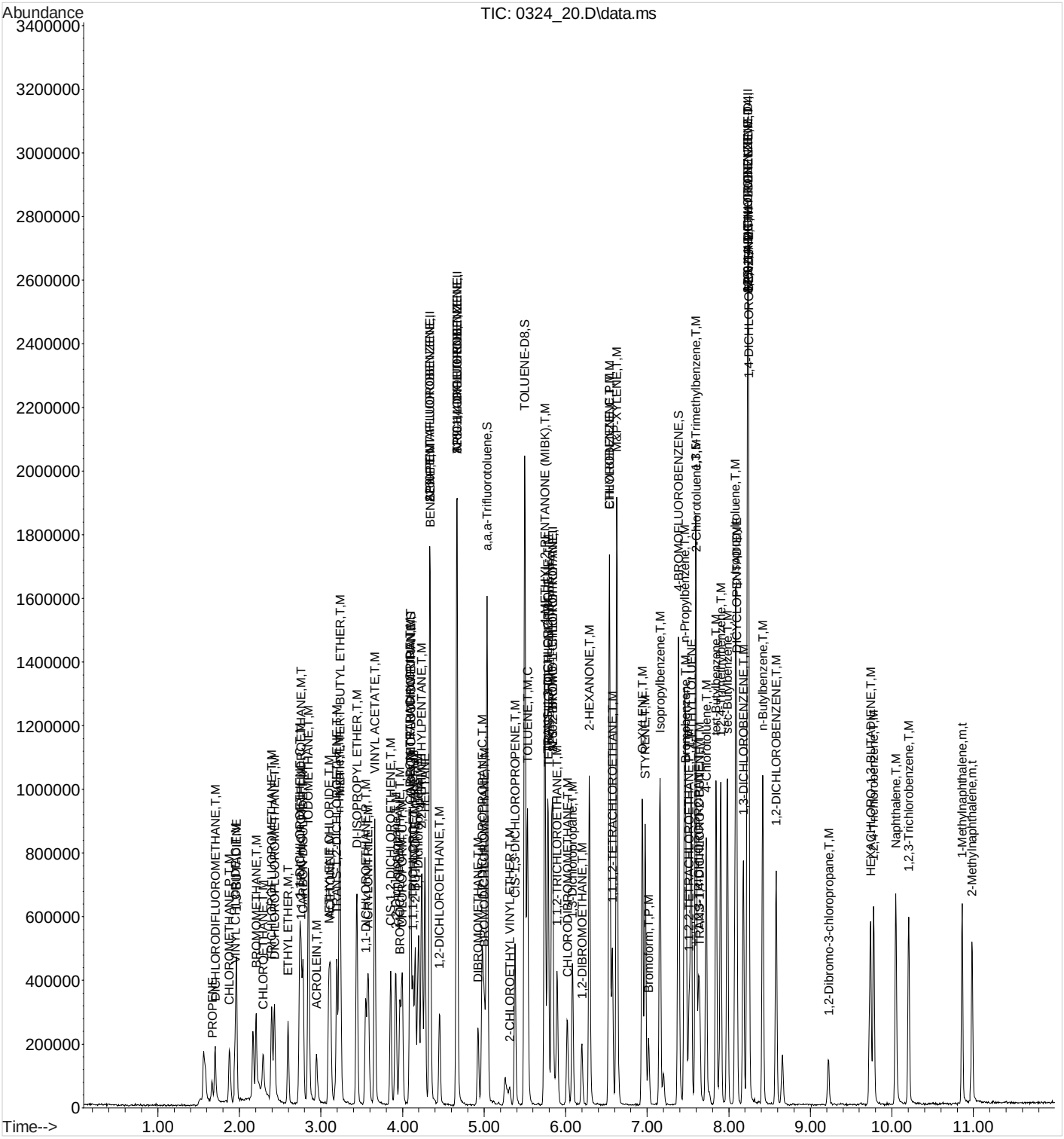
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 20.D
Acq On : 25 Mar 2015 1:00 am
Operator : 621
Sample : SSCV VMS 25 ppb 15C23960
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:09:12 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:06:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 33.D
Acq On : 25 Mar 2015 12:50 pm
Operator : 621
Sample : dnr SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:29:34 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.335	168	499607	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.669	114	838172	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.837	79	146392	40.0000000	ppb	#	0.00
84)	8260-1,4-DICHLOROBENZE...	8.234	152	422791	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.335	168	499607	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	838172	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	146392	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	422791	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.098	111	252273	41.5856169	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121			Recovery = 103.96%			
46)	a,a,a-Trifluorotoluene	5.034	146	488232	43.9908571	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114			Recovery = 109.98%			
50)	TOLUENE-D8	5.497	98	1042701	44.0034273	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111			Recovery = 110.01%			
68)	4-BROMOFLUOROBENZENE	7.383	95	409551	43.6788121	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126			Recovery = 109.20%			
Target Compounds								Qvalue
5)	CHLOROMETHANE	1.901	50	7714	0.9508974	ppb	#	49
7)	1,3-BUTADIENE	1.962	39	5982	1.0514406	ppb		82
8)	BROMOMETHANE	2.212	94	7700	1.9058228	ppb	#	67
9)	CHLOROETHANE	2.303	66	1179	Below Cal		#	1
13)	ACROLEIN	2.899	56	1134	1.0203191	ppb		85
16)	ACETONE	3.118	43	7938	2.0962494	ppb	#	81
17)	IODOMETHANE	2.844	142	6779	1.0305556	ppb		94
20)	ACRYLONITRILE	3.532	53	493570	203.4972761	ppb	#	53
21)	n-Hexane	3.209	56	1899	0.3094350	ppb	#	1
24)	1,1-DICHLOROETHANE	3.532	63	7922	0.7259881	ppb	#	43
25)	VINYL ACETATE	3.647	43	23384	2.2516468	ppb	#	78
31)	TETRAHYDROFURAN	4.091	42	1432	0.6464489	ppb	#	60
32)	CHLOROFORM	3.982	83	6880	0.6478068	ppb	#	62
37)	2,2,4-TRIMETHYLPENTANE	4.237	57	396782	15.1416559	ppb	#	10
38)	HEPTANE	4.244	43	104620	8.8138852	ppb	#	1
40)	1,2-DICHLOROETHANE	4.347	62	29801	3.6193261	ppb	#	76
42)	TRICHLOROETHENE	4.663	130	12727	2.3412476	ppb	#	82
43)	1,2-DICHLOROPROPANE	5.028	62	12418	2.8268421	ppb	#	42
49)	4-METHYL-2-PENTANONE (...	5.758	58	1647	0.6440738	ppb		82
54)	1,1,2-TRICHLOROETHANE	5.850	97	2021	0.3815747	ppb	#	1
55)	TETRACHLOROETHENE	5.789	164	15449	3.6158109	ppb		98
57)	2-HEXANONE	6.294	58	1999	0.7165404	ppb	#	1
61)	1,1,1,2-TETRACHLOROETHANE	6.580	133	2693	0.5408367	ppb	#	67
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	4783	2.1194953	ppb	#	82
78)	tert-Butylbenzene	7.882	119	171755	9.2281866	ppb	#	31
89)	1,2-Dibromo-3-chloropr...	9.220	157	631	0.4047353	ppb	#	83
90)	1,2,4-Trichlorobenzene	9.780	180	3211	0.3977897	ppb	#	88
92)	Naphthalene	10.047	128	9708	0.4336419	ppb		97
93)	1,2,3-Trichlorobenzene	10.206	180	3045	0.4011465	ppb		88
94)	1-Methylnaphthalene	10.863	142	8275	0.7542703	ppb	#	80
95)	2-Methylnaphthalene	10.984	142	6121	0.6769038	ppb	#	85
97)	ETHANOL	2.686	45	84598	929.2968487	ppb	#	92
98)	Bromoethane	2.917	108	42000	9.2619443	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 33.D
Acq On : 25 Mar 2015 12:50 pm
Operator : 621
Sample : dnr SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:29:34 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

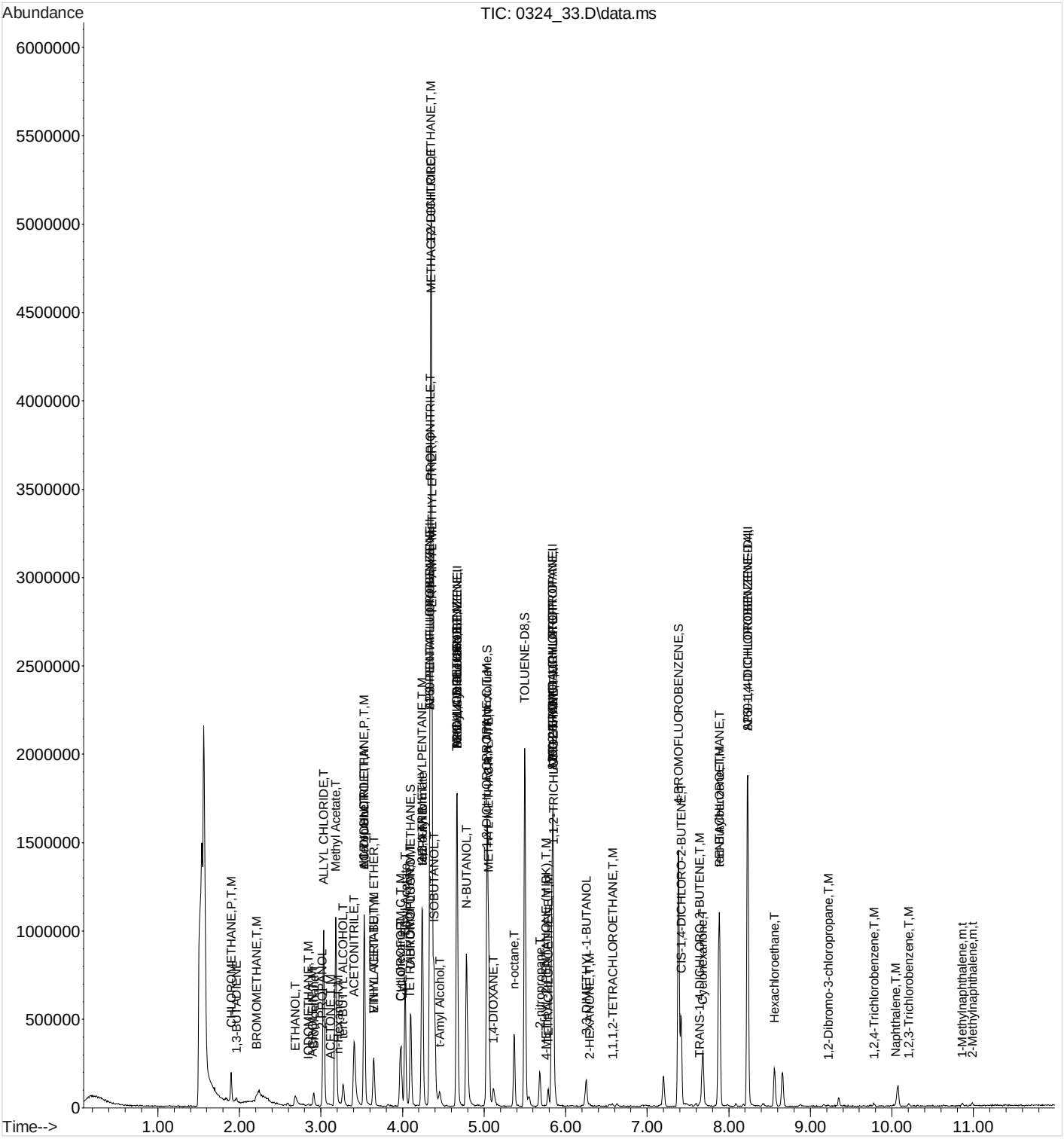
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
99)	2-PROPANOL	3.015	45	24544	46.5204438 ppb	#	69
100)	Methyl Acetate	3.179	43	1017091	190.2229111 ppb	#	100
101)	ACETONITRILE	3.404	41	427653	504.5894913 ppb		99
102)	ALLYL CHLORIDE	3.033	76	150525	48.0233932 ppb		95
103)	tert-BUTYL ALCOHOL	3.270	59	112915	99.9850610 ppb	#	87
104)	chloroprene	3.532	53	493570	48.6148421 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.647	59	188939	9.4127213 ppb		98
106)	PROPIONITRILE	4.341	54	402235	475.6435884 ppb		96
107)	Ethyl Acetate	4.031	43	617849	95.9082719 ppb		100
108)	METHACRYLONITRILE	4.353	67	1098018	464.7567013 ppb		94
109)	Cyclohexane	3.982	84	97785	9.5440895 ppb		99
110)	tert-butyl formate	4.244	59	527028	82.5489107 ppb		99
111)	ISOBUTANOL	4.390	43	370280	927.9176416 ppb	#	100
112)	t-Amyl Alcohol	4.457	59	33151	52.8001379 ppb		90
113)	TERT-AMYL METHYL ETHER	4.365	73	152909	9.1029591 ppb	#	94
115)	N-BUTANOL	4.785	56	396363	1961.9317492 ppb		99
116)	Methyl Cyclohexane	4.669	83	124347	9.8458336 ppb		96
117)	2-nitropropane	5.685	43	108894	47.6846478 ppb		96
118)	METHYL METHACRYLATE	5.053	41	305279	49.2176761 ppb		93
119)	1,4-DIOXANE	5.114	88	66130	967.9355877 ppb		98
120)	n-octane	5.369	85	62632	10.0240141 ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	66424	106.3010849 ppb		94
123)	ETHYL METHACRYLATE	5.844	69	383387	51.4874248 ppb	#	68
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	98484	46.9070919 ppb		90
125)	Cyclohexanone	7.681	55	114238	80.8747505 ppb		97
126)	PENTACHLOROETHANE	7.882	117	177573	51.7660852 ppb		99
127)	Hexachloroethane	8.557	117	41721	10.2546192 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 33.D
Acq On : 25 Mar 2015 12:50 pm
Operator : 621
Sample : dnr SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:29:34 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 34.D
Acq On : 25 Mar 2015 2:02 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:14:22 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	516712	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.670	114	871799	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	151234	40.0000000	ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	398057	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	516712	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.670	114	871799	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.838	79	151234	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	398057	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	261261	41.6415540	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.10%			
46) a,a,a-Trifluorotoluene	5.035	146	489398	42.3950503	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.99%			
50) TOLUENE-D8	5.497	98	1051906	42.6796086	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.70%			
68) 4-BROMOFLUOROBENZENE	7.383	95	401836	41.4838996	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.71%			
Target Compounds						Qvalue
3) PROPENE	1.670	41	4441	3.0607076	ppb #	31
5) CHLOROMETHANE	1.901	50	4713	0.5617350	ppb #	52
7) 1,3-BUTADIENE	1.962	39	3110	0.5285410	ppb	90
8) BROMOMETHANE	2.206	94	3057	0.7315891	ppb #	58
9) CHLOROETHANE	2.279	66	2028	Below Cal	#	1
13) ACROLEIN	2.948	56	564	0.4906615	ppb #	14
16) ACETONE	3.118	43	5156	1.3165117	ppb	91
17) IODOMETHANE	2.844	142	3625	0.5328362	ppb #	80
19) METHYLENE CHLORIDE	3.106	84	1942	0.3139574	ppb #	70
20) ACRYLONITRILE	3.532	53	331058	131.9756774	ppb #	53
24) 1,1-DICHLOROETHANE	3.532	63	5724	0.5071942	ppb #	43
25) VINYL ACETATE	3.647	43	28496	2.6530494	ppb #	78
29) 2-BUTANONE (MEK)	4.098	72	972	0.9761746	ppb #	1
31) TETRAHYDROFURAN	4.067	42	5041	2.2003302	ppb #	31
32) CHLOROFORM	3.976	83	8674	0.7896896	ppb #	31
37) 2,2,4-TRIMETHYLPENTANE	4.238	57	464645	17.1444140	ppb #	10
38) HEPTANE	4.238	43	125809	10.2481235	ppb #	1
42) TRICHLOROETHENE	4.663	130	7900	1.3972212	ppb #	70
43) 1,2-DICHLOROPROPANE	5.028	62	12378	2.7090509	ppb #	35
49) 4-METHYL-2-PENTANONE (...	5.844	58	15665	5.8896465	ppb #	25
54) 1,1,2-TRICHLOROETHANE	5.844	97	2266	0.4141342	ppb #	1
55) TETRACHLOROETHENE	5.789	164	35647	8.0759985	ppb	95
61) 1,1,1,2-TETRACHLOROETHANE	6.574	133	3474	0.6753479	ppb #	74
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	4850	2.0803755	ppb #	76
73) n-Propylbenzene	7.419	91	14155	0.4306775	ppb #	70
78) tert-Butylbenzene	7.882	119	155300	8.0769304	ppb #	30
97) ETHANOL	2.686	45	85674	909.9622576	ppb	93
98) Bromoethane	2.911	108	52795	11.2570769	ppb	97
99) 2-PROPANOL	3.015	45	26188	48.2329783	ppb	95
100) Methyl Acetate	3.179	43	1030593	186.3674949	ppb #	99
101) ACETONITRILE	3.404	41	422812	482.3629587	ppb	100
102) ALLYL CHLORIDE	3.033	76	155010	47.8171723	ppb	96
103) tert-BUTYL ALCOHOL	3.270	59	51277	43.9021766	ppb #	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 34.D
Acq On : 25 Mar 2015 2:02 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:14:22 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

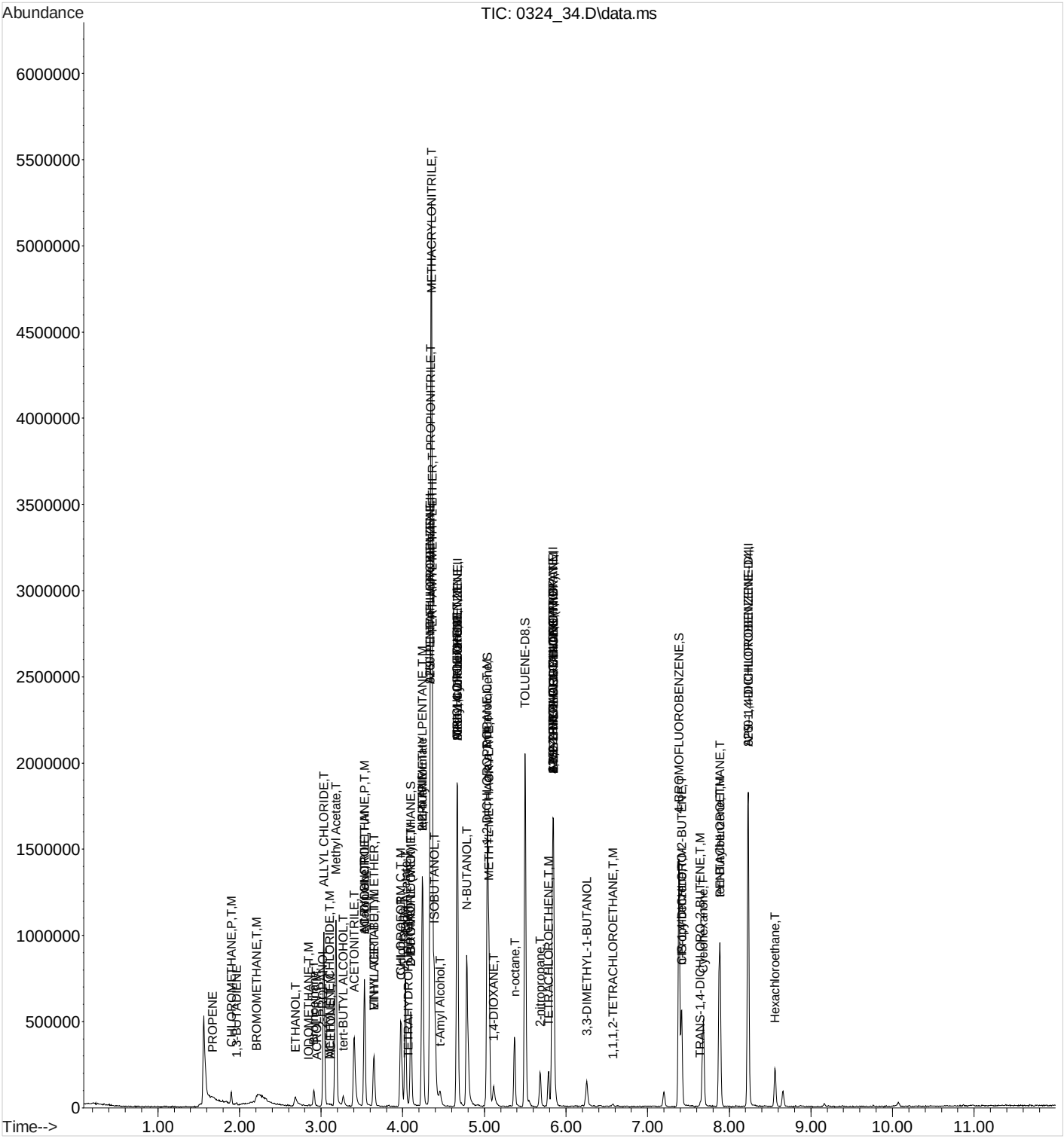
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) chloroprene	3.532	53	331058	31.5285631	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.647	59	211587	10.1920732	ppb		99
106) PROPIONITRILE	4.341	54	416194	475.8582152	ppb		97
107) Ethyl Acetate	4.031	43	648976	97.4052400	ppb		99
108) METHACRYLONITRILE	4.353	67	1142046	467.3903753	ppb		94
109) Cyclohexane	3.982	84	136344	12.8670285	ppb		95
110) tert-butyl formate	4.238	59	605843	91.7524604	ppb		99
111) ISOBUTANOL	4.390	43	412554	999.6315296	ppb	#	96
112) t-Amyl Alcohol	4.457	59	32164	49.5322942	ppb		90
113) TERT-AMYL METHYL ETHER	4.365	73	204945	11.7968712	ppb	#	94
115) N-BUTANOL	4.785	56	411355	1957.6017793	ppb		97
116) Methyl Cyclohexane	4.670	83	158813	12.3309079	ppb		98
117) 2-nitropropane	5.679	43	114950	48.3949879	ppb		100
118) METHYL METHACRYLATE	5.053	41	296880	46.0173809	ppb		89
119) 1,4-DIOXANE	5.114	88	72149	1015.3015126	ppb		98
120) n-octane	5.375	85	61765	9.5039604	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.251	57	66194	101.8469622	ppb		94
123) ETHYL METHACRYLATE	5.844	69	377067	49.0173941	ppb	#	62
124) CIS-1,4-DICHLORO-2-BUTENE	7.419	53	111999	51.6362720	ppb		87
125) Cyclohexanone	7.681	55	178750	122.4944236	ppb		98
126) PENTACHLOROETHANE	7.882	117	156340	44.1170438	ppb		99
127) Hexachloroethane	8.557	117	42366	10.0797601	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 34.D
Acq On : 25 Mar 2015 2:02 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15A20860
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:14:22 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 08.D
Acq On : 24 Mar 2015 5:08 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:55:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.335	168	503508	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	837525	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	149344	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	391409	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.24
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	261944	43.0440534	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.61%				
46) a,a,a-Trifluorotoluene	5.034	146	482623	44.5168930	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 111.29%				
50) TOLUENE-D8	5.497	98	1023284	43.8256035	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.56%				
68) 4-BROMOFLUOROBENZENE	7.383	95	387709	40.4769939	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.19%				
Target Compounds							Qvalue
4) DICHLORODIFLUOROMETHANE	1.707	85	1794	0.3152498	ppb		97
5) CHLOROMETHANE	1.883	50	2598	0.3450383	ppb	#	88
6) VINYL CHLORIDE	1.950	62	2592	0.3727642	ppb	#	93
7) 1,3-BUTADIENE	1.968	39	2504	0.4702015	ppb	#	66
8) BROMOMETHANE	2.205	94	3934	1.0629410	ppb	#	85
10) TRICHLOROFLUOROMETHANE	2.400	101	2185	0.2548994	ppb	#	86
11) DICHLOROFLUOROMETHANE	2.424	67	4590	0.4255416	ppb		100
12) ETHYL ETHER	2.583	59	971	0.1994803	ppb		89
13) ACROLEIN	2.942	56	2063	1.8412571	ppb	#	72
14) 1,1-DICHLOROETHENE	2.747	61	3375	0.3918094	ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	1734	0.3676812	ppb	#	54
16) ACETONE	3.118	43	8682	2.4083715	ppb		99
17) IODOMETHANE	2.844	142	8184	1.3080840	ppb	#	97
18) CARBON DISULFIDE	2.777	76	7495	0.4308492	ppb	#	43
19) METHYLENE CHLORIDE	3.106	84	3143	0.5411732	ppb	#	68
20) ACRYLONITRILE	3.580	53	4164	1.7146539	ppb	#	79
21) n-Hexane	3.228	56	3469	0.6014421	ppb	#	69
22) TRANS-1,2-DICHLOROETHENE	3.203	96	2352	0.4515865	ppb	#	67
23) METHYL TERT-BUTYL ETHER	3.234	73	4541	0.2593813	ppb	#	60
24) 1,1-DICHLOROETHANE	3.544	63	2538	0.2377070	ppb	#	86
25) VINYL ACETATE	3.666	43	13187	1.2281163	ppb		99
26) DI-ISOPROPYL ETHER	3.434	45	6008	0.2822723	ppb	#	72
27) 2,2-Dichloropropane	3.915	77	3042	0.3403792	ppb	#	89
28) CIS-1,2-DICHLOROETHENE	3.860	96	1881	0.3324088	ppb	#	65
29) 2-BUTANONE (MEK)	4.164	72	959	0.9311299	ppb	#	1
30) BROMOCHLOROMETHANE	3.976	130	812	0.2438784	ppb		96
31) TETRAHYDROFURAN	4.104	42	1787	0.7712414	ppb	#	1
32) CHLOROFORM	4.000	83	3290	0.3295250	ppb	#	82
34) 1,1,1-TRICHLOROETHANE	4.140	97	3816	0.4688988	ppb	#	64
35) CARBON TETRACHLORIDE	4.097	117	2179	0.2868891	ppb		91
36) 1,1-Dichloropropene	4.195	75	1967	0.2447804	ppb	#	79
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	9657	0.3898242	ppb	#	83
38) HEPTANE	4.274	43	4156	0.3641451	ppb	#	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 08.D
Acq On : 24 Mar 2015 5:08 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:55:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

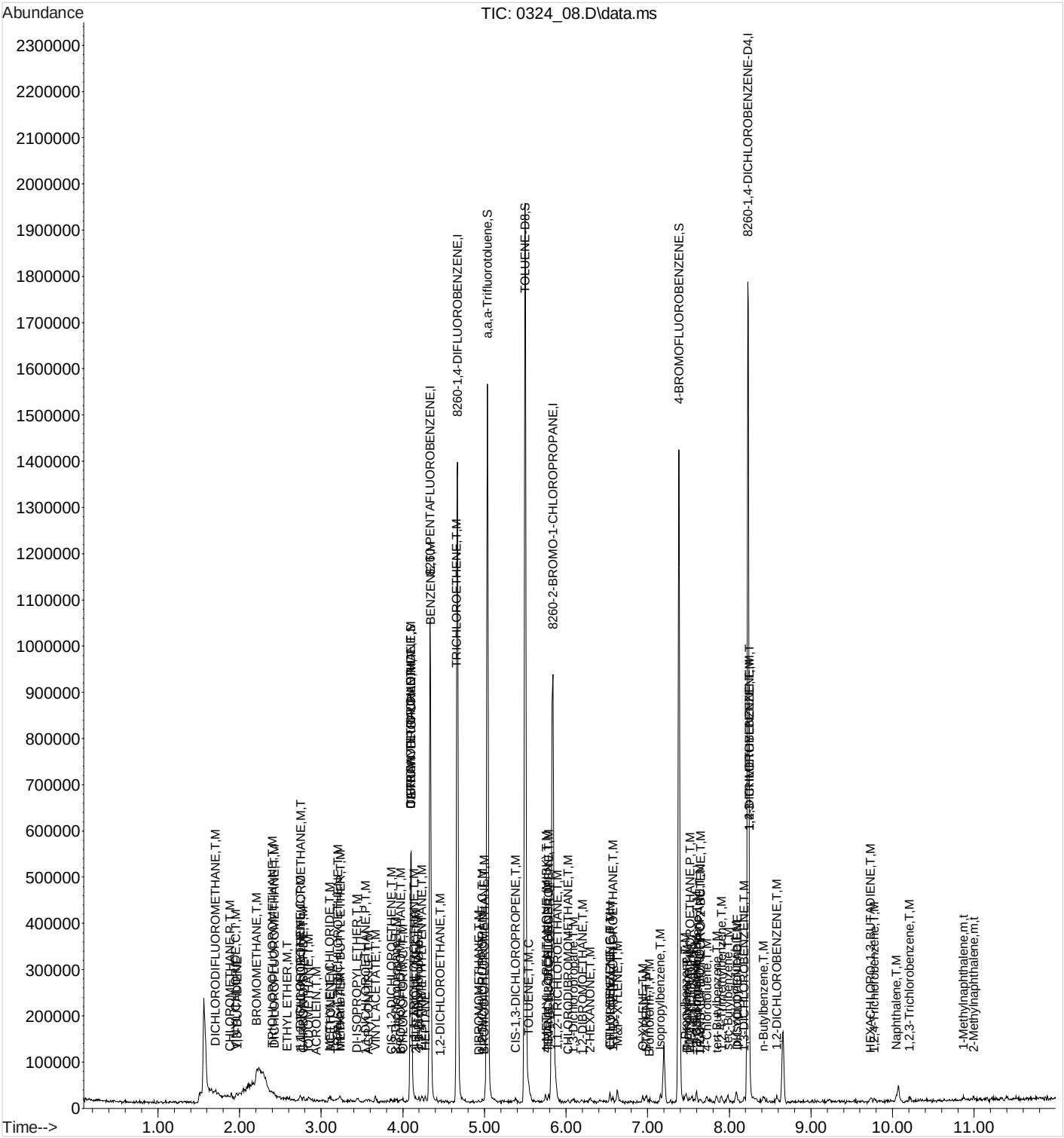
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
39)	BENZENE	4.341	78	6735	0.3152407 ppb	#	1
40)	1,2-DICHLOROETHANE	4.456	62	1830	0.2221709 ppb	#	76
42)	TRICHLOROETHENE	4.657	130	1164	0.2189619 ppb	#	35
43)	1,2-DICHLOROPROPANE	4.973	62	916	0.2091337 ppb	#	58
44)	DIBROMOMETHANE	4.931	93	515	0.1501385 ppb	#	1
45)	BROMODICHLOROMETHANE	4.998	83	5153	0.6563618 ppb	#	51
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	2795	0.2953919 ppb	#	98
49)	4-METHYL-2-PENTANONE (...	5.758	58	3527	1.3518850 ppb		83
51)	TOLUENE	5.539	91	8394	0.3778949 ppb		90
52)	TRANS-1,3-DICHLOROPROPENE	5.789	110	522	0.2628532 ppb	#	27
54)	1,1,2-TRICHLOROETHANE	5.892	97	1735	0.3546856 ppb	#	50
55)	TETRACHLOROETHENE	5.783	164	1356	0.3546594 ppb	#	81
56)	1,3-Dichloropropane	6.087	76	2963	0.3319260 ppb		93
57)	2-HEXANONE	6.294	58	3769	1.2733114 ppb		92
58)	CHLORODIBROMOMETHANE	6.026	129	1531	0.2843618 ppb	#	69
59)	1,2-DIBROMOETHANE	6.202	107	1530	0.2929422 ppb		98
60)	CHLOROBENZENE	6.543	112	3721	0.2580391 ppb		87
61)	1,1,1,2-TETRACHLOROETHANE	6.573	133	1737	0.3582424 ppb	#	82
62)	ETHYLBENZENE	6.537	106	1698	0.2114316 ppb	#	26
63)	M&P-XYLENE	6.634	106	6285	0.6475415 ppb		93
64)	O-XYLENE	6.938	106	2643	0.2742755 ppb		94
65)	STYRENE	6.981	104	3977	0.2540636 ppb	#	68
66)	Bromoform	7.024	173	650	0.1897611 ppb	#	27
67)	Isopropylbenzene	7.151	105	7374	0.2986903 ppb	#	78
69)	Bromobenzene	7.480	77	3760	0.3314999 ppb		88
70)	1,1,2,2-TETRACHLOROETHANE	7.516	83	2721	0.3871428 ppb	#	85
71)	1,2,3-TRICHLOROPROPANE	7.638	110	611	0.3162443 ppb	#	56
72)	TRANS-1,4-DICHLORO-2-B...	7.650	53	1255	0.5699482 ppb	#	43
73)	n-Propylbenzene	7.462	91	8773	0.2937848 ppb	#	89
74)	4-ETHYLTOLUENE	7.535	105	6720	0.2785057 ppb	#	81
75)	2-Chlorotoluene	7.596	126	1615	0.3320111 ppb	#	77
76)	4-Chlorotoluene	7.723	91	6486	0.3566293 ppb	#	80
77)	1,3,5-Trimethylbenzene	7.602	105	6791	0.3328446 ppb		87
78)	tert-Butylbenzene	7.851	119	4891	0.2767584 ppb	#	75
79)	1,2,4-Trimethylbenzene	7.900	105	7803	0.3638736 ppb		98
80)	sec-Butylbenzene	7.985	105	7118	0.2623347 ppb	#	74
81)	1,3-DICHLOROBENZENE	8.180	146	3379	0.2997799 ppb	#	83
82)	p-Isopropyltoluene	8.088	119	6538	0.2898178 ppb	#	79
83)	DICYCLOPENTADIENE	8.094	66	6597	0.2517459 ppb	#	71
85)	1,4-DICHLOROBENZENE	8.246	146	4155	0.3649237 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.246	105	6496	0.3104815 ppb	#	80
87)	1,2-DICHLOROBENZENE	8.581	146	2791	0.2565804 ppb		91
88)	n-Butylbenzene	8.417	91	7145	0.3300331 ppb	#	95
90)	1,2,4-Trichlorobenzene	9.773	180	2263	0.3069280 ppb	#	47
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	1420	0.3444812 ppb	#	47
92)	Naphthalene	10.047	128	5958	0.2890531 ppb		99
93)	1,2,3-Trichlorobenzene	10.205	180	1903	0.2727547 ppb	#	67
94)	1-Methylnaphthalene	10.868	142	3356	0.3251040 ppb	#	59
95)	2-Methylnaphthalene	10.990	142	1892	0.2175446 ppb	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 08.D
Acq On : 24 Mar 2015 5:08 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:55:38 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 09.D
Acq On : 24 Mar 2015 5:28 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:06 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	495644	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	813277	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	144657	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	388132	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.104	111	257302	42.9520989	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.38%			
46) a,a,a-Trifluorotoluene	5.034	146	462934	43.9739217	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.93%			
50) TOLUENE-D8	5.497	98	998714	44.0486040	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.12%			
68) 4-BROMOFLUOROBENZENE	7.383	95	382235	41.1984755	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.00%			
Target Compounds						Qvalue
3) PROPENE	1.670	41	2533	2.3409104	ppb #	84
4) DICHLORODIFLUOROMETHANE	1.707	85	3918	0.6994123	ppb	98
5) CHLOROMETHANE	1.889	50	5927	0.7996494	ppb #	81
6) VINYL CHLORIDE	1.956	62	3208	0.4686731	ppb #	57
7) 1,3-BUTADIENE	1.968	39	4154	0.7924151	ppb	99
8) BROMOMETHANE	2.205	94	5090	1.3971053	ppb #	61
9) CHLOROETHANE	2.291	66	2262	2.0824951	ppb #	18
10) TRICHLOROFLUOROMETHANE	2.394	101	3952	0.4683502	ppb #	69
11) DICHLOROFLUOROMETHANE	2.431	67	6595	0.6211274	ppb	99
12) ETHYL ETHER	2.601	59	2784	0.5810139	ppb #	50
13) ACROLEIN	2.948	56	2857	2.5903711	ppb #	10
14) 1,1-DICHLOROETHENE	2.741	61	5257	0.6199770	ppb	93
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	3309	0.7127802	ppb #	84
16) ACETONE	3.124	43	11859	3.3418603	ppb	95
17) IODOMETHANE	2.850	142	15885	2.5792518	ppb	97
18) CARBON DISULFIDE	2.777	76	11671	0.6815508	ppb #	84
19) METHYLENE CHLORIDE	3.094	84	4018	0.7028107	ppb	93
20) ACRYLONITRILE	3.580	53	6545	2.7378643	ppb #	81
21) n-Hexane	3.221	56	6070	1.0690911	ppb #	66
22) TRANS-1,2-DICHLOROETHENE	3.191	96	3328	0.6491177	ppb #	75
23) METHYL TERT-BUTYL ETHER	3.240	73	9319	0.5407456	ppb #	73
24) 1,1-DICHLOROETHANE	3.550	63	5404	0.5141646	ppb #	76
25) VINYL ACETATE	3.665	43	30396	2.8757191	ppb	99
26) DI-ISOPROPYL ETHER	3.440	45	10949	0.5225758	ppb #	84
27) 2,2-Dichloropropane	3.915	77	5426	0.6167655	ppb #	69
28) CIS-1,2-DICHLOROETHENE	3.854	96	3838	0.6890094	ppb #	80
29) 2-BUTANONE (MEK)	4.170	72	2431	2.3978011	ppb	75
30) BROMOCHLOROMETHANE	3.970	130	1953	0.5958762	ppb	97
31) TETRAHYDROFURAN	4.110	42	3181	1.3946523	ppb #	52
32) CHLOROFORM	3.994	83	5945	0.6048962	ppb #	88
34) 1,1,1-TRICHLOROETHANE	4.128	97	4394	0.5484883	ppb	94
35) CARBON TETRACHLORIDE	4.091	117	4071	0.5444957	ppb	97
36) 1,1-Dichloropropene	4.195	75	4157	0.5255195	ppb #	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 09.D
Acq On : 24 Mar 2015 5:28 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:06 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

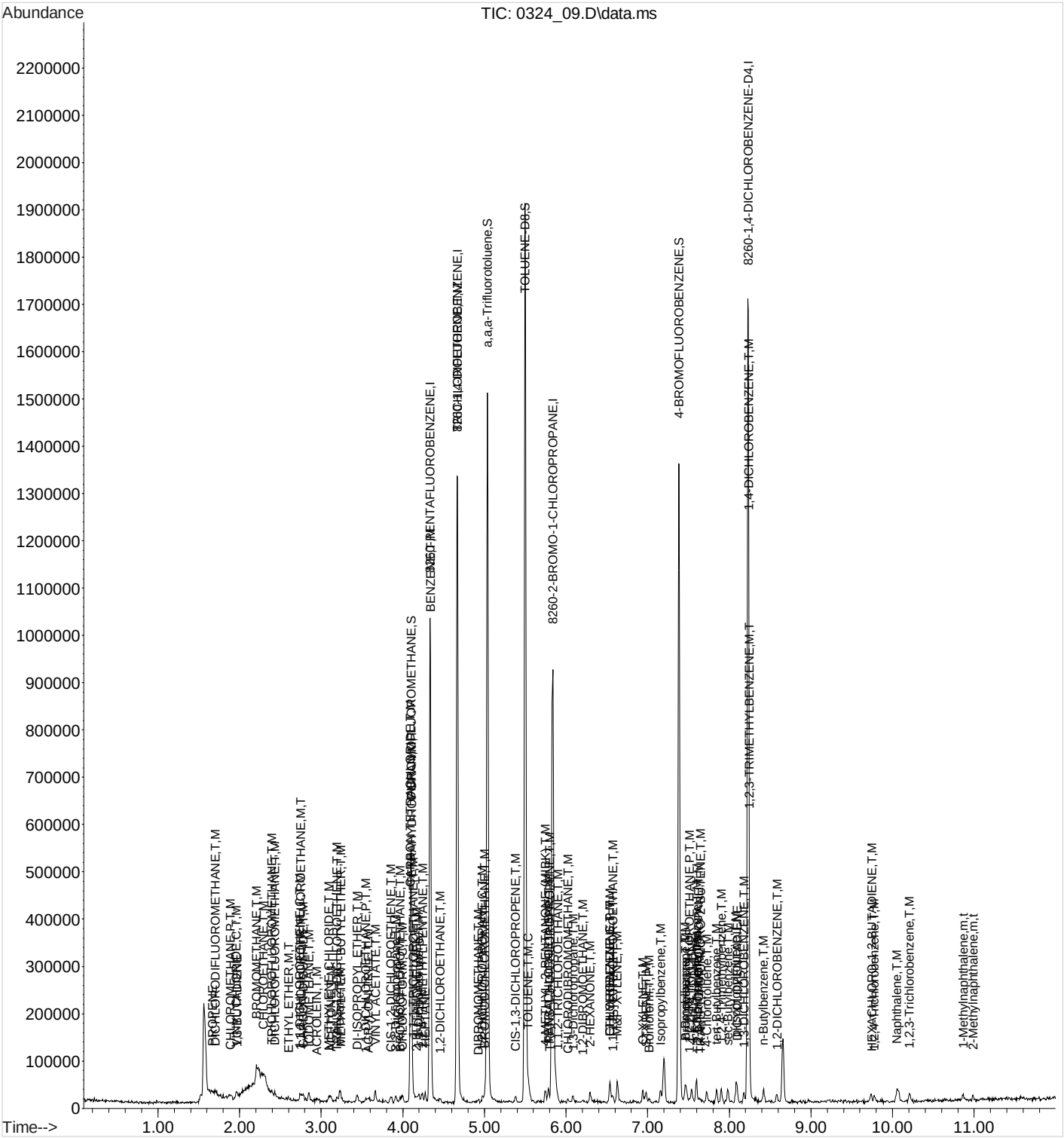
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.243	57	14335	0.5878422 ppb		100
38) HEPTANE	4.274	43	6352	0.5653871 ppb		93
39) BENZENE	4.341	78	12791	0.6081991 ppb	#	34
40) 1,2-DICHLOROETHANE	4.456	62	3873	0.4776614 ppb	#	76
42) TRICHLOROETHENE	4.669	130	2689	0.5209135 ppb	#	78
43) 1,2-DICHLOROPROPANE	4.973	62	2373	0.5579375 ppb	#	91
44) DIBROMOMETHANE	4.925	93	1334	0.4004977 ppb	#	41
45) BROMODICHLOROMETHANE	5.004	83	5902	0.7741795 ppb	#	84
48) CIS-1,3-DICHLOROPROPENE	5.381	75	4571	0.4974934 ppb	#	67
49) 4-METHYL-2-PENTANONE (...	5.746	58	6603	2.6063628 ppb		94
51) TOLUENE	5.533	91	16641	0.7715086 ppb		89
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	1498	0.7768085 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.898	97	3165	0.6679841 ppb		93
55) TETRACHLOROETHENE	5.789	164	2431	0.6564250 ppb	#	90
56) 1,3-Dichloropropane	6.087	76	5355	0.6193232 ppb		95
57) 2-HEXANONE	6.294	58	6365	2.2200114 ppb	#	67
58) CHLORODIBROMOMETHANE	6.026	129	2877	0.5516762 ppb		96
59) 1,2-DIBROMOETHANE	6.208	107	2235	0.4417906 ppb	#	53
60) CHLOROBENZENE	6.537	112	8473	0.6066125 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	2408	0.5127220 ppb	#	96
62) ETHYLBENZENE	6.537	106	4782	0.6147381 ppb		94
63) M&P-XYLENE	6.628	106	10235	1.0886756 ppb		90
64) O-XYLENE	6.938	106	4867	0.5214343 ppb	#	62
65) STYRENE	6.981	104	7385	0.4870636 ppb	#	74
66) Bromoform	7.018	173	1377	0.4150268 ppb		97
67) Isopropylbenzene	7.157	105	14572	0.6093762 ppb		99
69) Bromobenzene	7.468	77	7554	0.6875763 ppb	#	84
70) 1,1,2,2-TETRACHLOROETHANE	7.510	83	4235	0.6220773 ppb	#	76
71) 1,2,3-TRICHLOROPROPANE	7.626	110	775	0.4141251 ppb	#	25
72) TRANS-1,4-DICHLORO-2-B...	7.650	53	1190	0.5579393 ppb	#	43
73) n-Propylbenzene	7.462	91	18291	0.6323638 ppb	#	94
74) 4-ETHYLTOLUENE	7.541	105	15538	0.6648265 ppb		93
75) 2-Chlorotoluene	7.608	126	2926	0.6210159 ppb	#	77
76) 4-Chlorotoluene	7.723	91	12215	0.6933969 ppb	#	90
77) 1,3,5-Trimethylbenzene	7.602	105	11990	0.6067018 ppb		94
78) tert-Butylbenzene	7.845	119	9126	0.5331286 ppb	#	85
79) 1,2,4-Trimethylbenzene	7.900	105	12230	0.5887945 ppb		92
80) sec-Butylbenzene	7.985	105	17093	0.6503758 ppb		94
81) 1,3-DICHLOROBENZENE	8.180	146	5878	0.5383841 ppb		98
82) p-Isopropyltoluene	8.082	119	12754	0.5836800 ppb	#	82
83) DICYCLOPENTADIENE	8.094	66	13450	0.5298909 ppb	#	76
85) 1,4-DICHLOROBENZENE	8.240	146	6007	0.5320348 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.246	105	12740	0.6140596 ppb		88
87) 1,2-DICHLOROBENZENE	8.587	146	5614	0.5204600 ppb		92
88) n-Butylbenzene	8.417	91	12980	0.6046184 ppb		94
90) 1,2,4-Trichlorobenzene	9.773	180	3500	0.4787088 ppb		91
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	1968	0.4814526 ppb	#	74
92) Naphthalene	10.053	128	10605	0.5188468 ppb	#	72
93) 1,2,3-Trichlorobenzene	10.205	180	4066	0.5876953 ppb		96
94) 1-Methylnaphthalene	10.868	142	4906	0.4792689 ppb		86
95) 2-Methylnaphthalene	10.984	142	3827	0.4437487 ppb	#	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 09.D
Acq On : 24 Mar 2015 5:28 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:06 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : STD VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:33 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	481199	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	807328	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	146236	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	375531	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	255255	43.8894990	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.72%			
46) a,a,a-Trifluorotoluene	5.034	146	464565	44.4540243	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 111.14%			
50) TOLUENE-D8	5.497	98	1000266	44.4421431	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 111.11%#			
68) 4-BROMOFLUOROBENZENE	7.383	95	377978	40.2997518	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.75%			
Target Compounds						Qvalue
3) PROPENE	1.670	41	1205	1.1470485	ppb #	36
4) DICHLORODIFLUOROMETHANE	1.707	85	6928	1.2738605	ppb	99
5) CHLOROMETHANE	1.889	50	9567	1.3294917	ppb	95
6) VINYL CHLORIDE	1.950	62	6806	1.0241717	ppb #	93
7) 1,3-BUTADIENE	1.962	39	10290	2.0218399	ppb	84
8) BROMOMETHANE	2.206	94	6676	1.8874385	ppb #	79
9) CHLOROETHANE	2.303	66	2202	2.0881122	ppb #	46
10) TRICHLOROFLUOROMETHANE	2.394	101	8974	1.0954310	ppb #	93
11) DICHLOROFLUOROMETHANE	2.431	67	11133	1.0799987	ppb #	80
12) ETHYL ETHER	2.595	59	6030	1.2962231	ppb #	86
13) ACROLEIN	2.942	56	6350	5.9302172	ppb	90
14) 1,1-DICHLOROETHENE	2.741	61	9595	1.1655414	ppb #	91
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	4499	0.9982056	ppb #	71
16) ACETONE	3.124	43	21620	6.2753947	ppb	99
17) IODOMETHANE	2.850	142	30891	5.1663477	ppb	97
18) CARBON DISULFIDE	2.777	76	20686	1.2442619	ppb #	69
19) METHYLENE CHLORIDE	3.100	84	7499	1.3510671	ppb	81
20) ACRYLONITRILE	3.580	53	10049	4.3298241	ppb #	80
21) n-Hexane	3.228	56	7286	1.3217835	ppb #	93
22) TRANS-1,2-DICHLOROETHENE	3.197	96	5463	1.0975302	ppb #	89
23) METHYL TERT-BUTYL ETHER	3.240	73	17930	1.0716404	ppb	98
24) 1,1-DICHLOROETHANE	3.550	63	12299	1.2053183	ppb	100
25) VINYL ACETATE	3.660	43	51955	5.0629368	ppb	98
26) DI-ISOPROPYL ETHER	3.441	45	22185	1.0906349	ppb	99
27) 2,2-Dichloropropane	3.921	77	9586	1.1223359	ppb #	67
28) CIS-1,2-DICHLOROETHENE	3.860	96	7353	1.3596587	ppb	80
29) 2-BUTANONE (MEK)	4.165	72	4286	4.3543718	ppb	75
30) BROMOCHLOROMETHANE	3.976	130	3997	1.2561256	ppb	92
31) TETRAHYDROFURAN	4.104	42	3642	1.6447025	ppb #	70
32) CHLOROFORM	3.994	83	11212	1.1750524	ppb	85
34) 1,1,1-TRICHLOROETHANE	4.128	97	8767	1.1272063	ppb	91
35) CARBON TETRACHLORIDE	4.092	117	7043	0.9702780	ppb #	64
36) 1,1-Dichloropropene	4.195	75	9255	1.2051203	ppb #	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : STD VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:33 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	25329	1.0698582 ppb		96
38)	HEPTANE	4.280	43	10534	0.9657703 ppb	#	75
39)	BENZENE	4.341	78	21585	1.0571545 ppb	#	53
40)	1,2-DICHLOROETHANE	4.457	62	8126	1.0322731 ppb	#	75
42)	TRICHLOROETHENE	4.663	130	5351	1.0442351 ppb		83
43)	1,2-DICHLOROPROPANE	4.986	62	4383	1.0381205 ppb	#	84
44)	DIBROMOMETHANE	4.925	93	3261	0.9862420 ppb		90
45)	BROMODICHLOROMETHANE	5.010	83	8998	1.1889865 ppb	#	77
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	10259	1.1247852 ppb	#	90
49)	4-METHYL-2-PENTANONE (...	5.746	58	12413	4.9358142 ppb		81
51)	TOLUENE	5.533	91	27169	1.2688886 ppb		96
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	2344	1.2244702 ppb		93
54)	1,1,2-TRICHLOROETHANE	5.898	97	6039	1.2607895 ppb	#	84
55)	TETRACHLOROETHENE	5.795	164	3962	1.0582780 ppb		94
56)	1,3-Dichloropropane	6.081	76	8782	1.0047002 ppb	#	82
57)	2-HEXANONE	6.294	58	13625	4.7008725 ppb		78
58)	CHLORODIBROMOMETHANE	6.026	129	4999	0.9482279 ppb	#	85
59)	1,2-DIBROMOETHANE	6.203	107	5750	1.1243251 ppb		90
60)	CHLOROBENZENE	6.543	112	15089	1.0686114 ppb		91
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	4587	0.9661385 ppb	#	79
62)	ETHYLBENZENE	6.531	106	9926	1.2622343 ppb		84
63)	M&P-XYLENE	6.634	106	21776	2.2912575 ppb		96
64)	O-XYLENE	6.939	106	9456	1.0021457 ppb		76
65)	STYRENE	6.981	104	15102	0.9852689 ppb	#	85
66)	Bromoform	7.018	173	3189	0.9507839 ppb	#	68
67)	Isopropylbenzene	7.158	105	28165	1.1650948 ppb	#	94
69)	Bromobenzene	7.474	77	12708	1.1442115 ppb		88
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	8717	1.2666106 ppb	#	86
71)	1,2,3-TRICHLOROPROPANE	7.638	110	2048	1.0825425 ppb	#	50
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	3148	1.4600236 ppb	#	57
73)	n-Propylbenzene	7.462	91	30670	1.0488865 ppb		96
74)	4-ETHYLTOLUENE	7.541	105	26342	1.1149287 ppb		100
75)	2-Chlorotoluene	7.602	126	6464	1.3571096 ppb	#	78
76)	4-Chlorotoluene	7.723	91	19994	1.1227247 ppb		98
77)	1,3,5-Trimethylbenzene	7.596	105	22036	1.1029963 ppb		97
78)	tert-Butylbenzene	7.845	119	18160	1.0494276 ppb		87
79)	1,2,4-Trimethylbenzene	7.900	105	23500	1.1191552 ppb		99
80)	sec-Butylbenzene	7.985	105	31110	1.1709308 ppb		93
81)	1,3-DICHLOROBENZENE	8.180	146	12385	1.1221316 ppb		94
82)	p-Isopropyltoluene	8.082	119	22601	1.0231545 ppb		95
83)	DICYCLOPENTADIENE	8.095	66	26730	1.0417135 ppb		95
85)	1,4-DICHLOROBENZENE	8.247	146	11804	1.0805510 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.247	105	22579	1.1248107 ppb		99
87)	1,2-DICHLOROBENZENE	8.581	146	10504	1.0064758 ppb	#	90
88)	n-Butylbenzene	8.417	91	23577	1.1350862 ppb		91
89)	1,2-Dibromo-3-chloropr...	9.226	157	679	0.5022983 ppb	#	15
90)	1,2,4-Trichlorobenzene	9.774	180	6647	0.9396426 ppb		93
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	4429	1.1198705 ppb		96
92)	Naphthalene	10.047	128	19627	0.9924669 ppb		98
93)	1,2,3-Trichlorobenzene	10.206	180	5674	0.8476329 ppb	#	72
94)	1-Methylnaphthalene	10.863	142	8490	0.8572215 ppb	#	93
95)	2-Methylnaphthalene	10.984	142	7958	0.9537097 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : STD VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:33 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

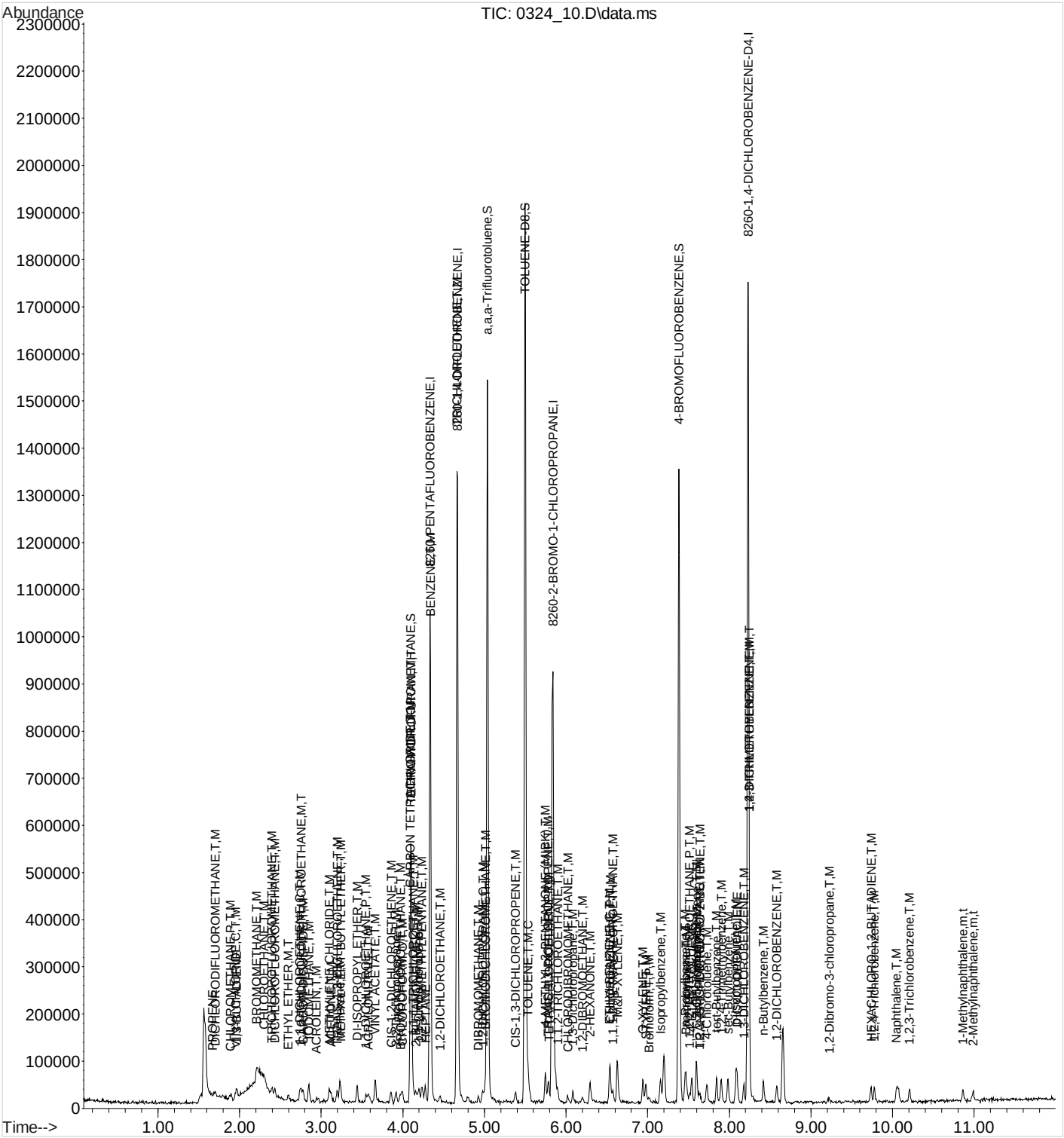
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 10.D
Acq On : 24 Mar 2015 5:47 pm
Operator : 621
Sample : STD VMS 1 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:33 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 11.D
Acq On : 24 Mar 2015 6:06 pm
Operator : 621
Sample : STD VMS 2 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:56 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	469016	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	799014	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	140188	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	378882	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	244918	43.2060066	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 108.02%			
46) a,a,a-Trifluorotoluene	5.034	146	453953	43.8905590	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.73%			
50) TOLUENE-D8	5.497	98	982359	44.1006856	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.25%			
68) 4-BROMOFLUOROBENZENE	7.383	95	384102	42.7194720	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.80%			
Target Compounds						Qvalue
3) PROPENE	1.670	41	3584	3.5002560	ppb #	51
4) DICHLORODIFLUOROMETHANE	1.707	85	11468	2.1634095	ppb	95
5) CHLOROMETHANE	1.883	50	15913	2.2688144	ppb	93
6) VINYL CHLORIDE	1.944	62	14320	2.2108584	ppb	95
7) 1,3-BUTADIENE	1.962	39	10270	2.0703267	ppb	93
8) BROMOMETHANE	2.199	94	8419	2.4420472	ppb #	49
9) CHLOROETHANE	2.285	66	3420	3.3273592	ppb #	73
10) TRICHLOROFLUOROMETHANE	2.388	101	14950	1.8723076	ppb #	87
11) DICHLOROFLUOROMETHANE	2.425	67	20124	2.0029144	ppb	95
12) ETHYL ETHER	2.601	59	8693	1.9172078	ppb #	77
13) ACROLEIN	2.954	56	9281	8.8925990	ppb	88
14) 1,1-DICHLOROETHENE	2.741	61	17059	2.1260493	ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	8862	2.0173108	ppb	94
16) ACETONE	3.118	43	38117	11.3511830	ppb	93
17) IODOMETHANE	2.844	142	56245	9.6510073	ppb	99
18) CARBON DISULFIDE	2.777	76	35222	2.1736337	ppb #	91
19) METHYLENE CHLORIDE	3.094	84	10659	1.9702761	ppb	92
20) ACRYLONITRILE	3.580	53	22949	10.1449108	ppb	94
21) n-Hexane	3.221	56	12424	2.3124357	ppb	88
22) TRANS-1,2-DICHLOROETHENE	3.191	96	10544	2.1733403	ppb	82
23) METHYL TERT-BUTYL ETHER	3.240	73	31110	1.9076815	ppb	87
24) 1,1-DICHLOROETHANE	3.550	63	19996	2.0105374	ppb	98
25) VINYL ACETATE	3.660	43	99884	9.9863812	ppb	99
26) DI-ISOPROPYL ETHER	3.440	45	39268	1.9805955	ppb	92
27) 2,2-Dichloropropane	3.915	77	18743	2.2514462	ppb	96
28) CIS-1,2-DICHLOROETHENE	3.848	96	11791	2.2369332	ppb #	81
29) 2-BUTANONE (MEK)	4.164	72	9757	10.1701346	ppb	93
30) BROMOCHLOROMETHANE	3.976	130	6205	2.0006805	ppb	89
31) TETRAHYDROFURAN	4.098	42	6181	2.8638035	ppb #	74
32) CHLOROFORM	3.994	83	18662	2.0066396	ppb	92
34) 1,1,1-TRICHLOROETHANE	4.134	97	15980	2.1079789	ppb	88
35) CARBON TETRACHLORIDE	4.091	117	14726	2.0814230	ppb	91
36) 1,1-Dichloropropene	4.195	75	15120	2.0199602	ppb #	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 11.D
Acq On : 24 Mar 2015 6:06 pm
Operator : 621
Sample : STD VMS 2 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:56 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	47565	2.0612598 ppb		99
38)	HEPTANE	4.274	43	21008	1.9760699 ppb		89
39)	BENZENE	4.341	78	40810	2.0506429 ppb	#	72
40)	1,2-DICHLOROETHANE	4.456	62	14816	1.9310157 ppb	#	94
42)	TRICHLOROETHENE	4.669	130	9807	1.9337269 ppb		93
43)	1,2-DICHLOROPROPANE	4.980	62	7718	1.8470416 ppb	#	89
44)	DIBROMOMETHANE	4.925	93	6118	1.8695530 ppb	#	80
45)	BROMODICHLOROMETHANE	4.998	83	16443	2.1953695 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.308	63	2002	14.8992789 ppb	#	90
48)	CIS-1,3-DICHLOROPROPENE	5.387	75	17363	1.9234680 ppb	#	88
49)	4-METHYL-2-PENTANONE (...	5.752	58	23747	9.5408359 ppb		98
51)	TOLUENE	5.527	91	45157	2.1309367 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	4450	2.3488011 ppb		84
54)	1,1,2-TRICHLOROETHANE	5.898	97	9219	2.0077277 ppb		95
55)	TETRACHLOROETHENE	5.789	164	7736	2.1554861 ppb		90
56)	1,3-Dichloropropane	6.081	76	17409	2.0775924 ppb		98
57)	2-HEXANONE	6.294	58	27594	9.9311623 ppb		92
58)	CHLORODIBROMOMETHANE	6.026	129	9309	1.8419425 ppb	#	94
59)	1,2-DIBROMOETHANE	6.202	107	9693	1.9770868 ppb		90
60)	CHLOROBENZENE	6.537	112	27341	2.0198410 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.567	133	9025	1.9829022 ppb	#	100
62)	ETHYLBENZENE	6.531	106	14874	1.9730448 ppb		88
63)	M&P-XYLENE	6.628	106	36846	4.0441719 ppb		89
64)	O-XYLENE	6.945	106	19916	2.2017550 ppb		93
65)	STYRENE	6.975	104	30963	2.1072050 ppb		99
66)	Bromoform	7.024	173	6100	1.8971454 ppb		88
67)	Isopropylbenzene	7.151	105	48019	2.0720874 ppb		98
69)	Bromobenzene	7.474	77	23920	2.2466412 ppb		93
70)	1,1,2,2-TETRACHLOROETHANE	7.516	83	13556	2.0547127 ppb		94
71)	1,2,3-TRICHLOROPROPANE	7.632	110	3307	1.8234450 ppb	#	65
72)	TRANS-1,4-DICHLORO-2-B...	7.650	53	4872	2.3570884 ppb	#	62
73)	n-Propylbenzene	7.462	91	56501	2.0156461 ppb		99
74)	4-ETHYLTOLUENE	7.541	105	47503	2.0973110 ppb		100
75)	2-Chlorotoluene	7.602	126	11025	2.4145468 ppb	#	88
76)	4-Chlorotoluene	7.723	91	36097	2.1144049 ppb		99
77)	1,3,5-Trimethylbenzene	7.596	105	43082	2.2494721 ppb		94
78)	tert-Butylbenzene	7.845	119	36670	2.2105025 ppb		98
79)	1,2,4-Trimethylbenzene	7.900	105	41270	2.0502195 ppb		95
80)	sec-Butylbenzene	7.985	105	56751	2.2281694 ppb		99
81)	1,3-DICHLOROBENZENE	8.180	146	23484	2.2195417 ppb		98
82)	p-Isopropyltoluene	8.082	119	46517	2.1966897 ppb		97
83)	DICYCLOPENTADIENE	8.094	66	52408	2.1305433 ppb		99
85)	1,4-DICHLOROBENZENE	8.240	146	23671	2.1477044 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.240	105	37879	1.8703164 ppb		89
87)	1,2-DICHLOROBENZENE	8.581	146	19459	1.8480382 ppb		92
88)	n-Butylbenzene	8.417	91	44484	2.1226870 ppb		93
89)	1,2-Dibromo-3-chloropr...	9.226	157	2674	1.9606278 ppb		91
90)	1,2,4-Trichlorobenzene	9.773	180	14415	2.0197308 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	7874	1.9733284 ppb		97
92)	Naphthalene	10.053	128	37075	1.8581684 ppb		99
93)	1,2,3-Trichlorobenzene	10.205	180	13553	2.0067614 ppb	#	90
94)	1-Methylnaphthalene	10.862	142	16787	1.6799651 ppb		97
95)	2-Methylnaphthalene	10.984	142	15943	1.8937565 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 11.D
Acq On : 24 Mar 2015 6:06 pm
Operator : 621
Sample : STD VMS 2 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:56:56 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 11.D
Acq On : 24 Mar 2015 6:06 pm
Operator : 621
Sample : STD VMS 2 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
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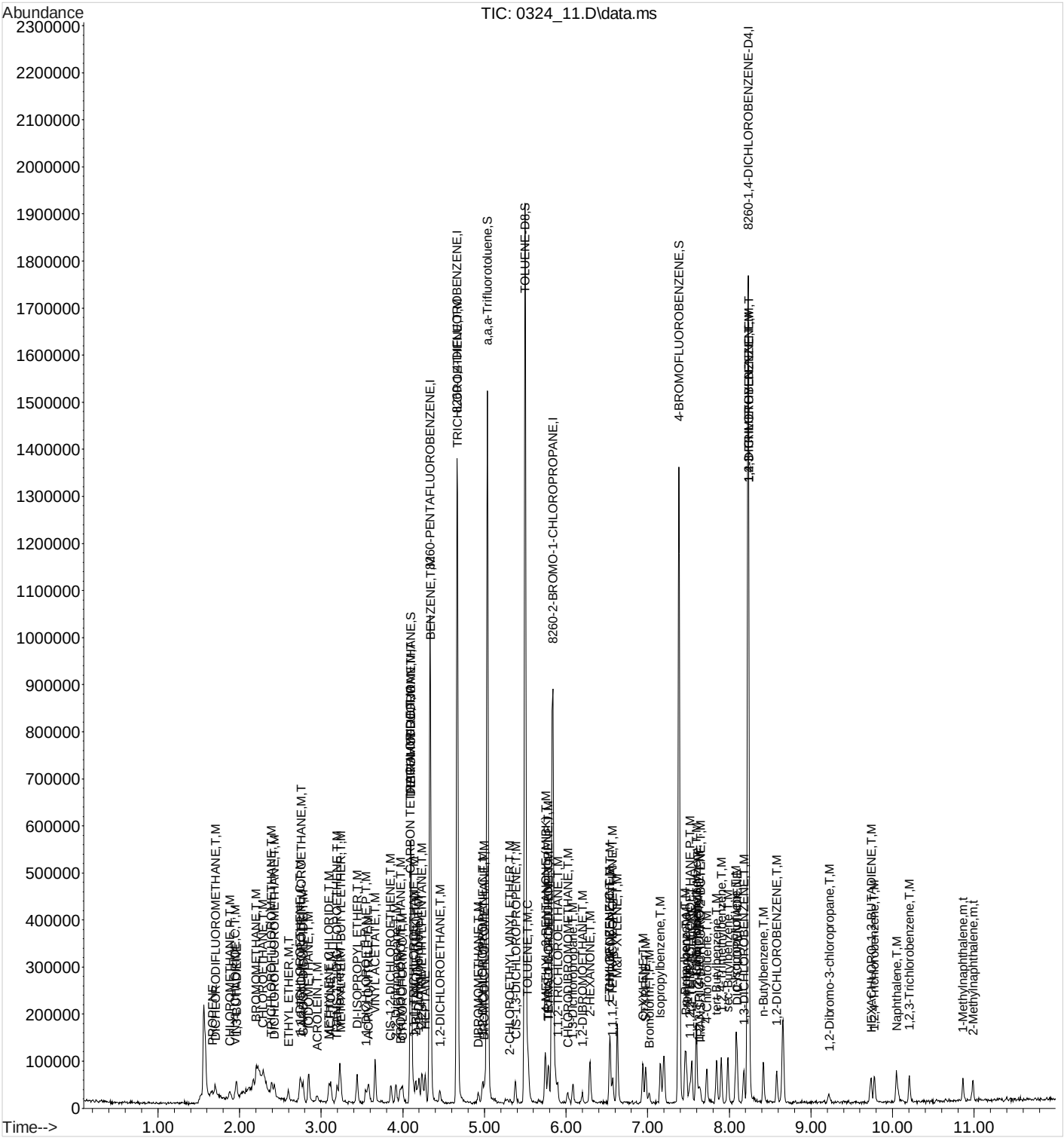
Quant Time: Mar 25 12:56:56 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:23 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	465607	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	790470	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	143490	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	372443	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.24
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	250369	44.4909968 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 111.23%		
46) a,a,a-Trifluorotoluene	5.034	146	458552	44.8144231 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.04%		
50) TOLUENE-D8	5.497	98	970117	44.0218434 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.05%		
68) 4-BROMOFLUOROBENZENE	7.383	95	380727	41.3696826 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.42%		

Target Compounds					Qvalue
3) PROPENE	1.664	41	6844	6.7330209 ppb #	78
4) DICHLORODIFLUOROMETHANE	1.707	85	28104	5.3405668 ppb	92
5) CHLOROMETHANE	1.877	50	39138	5.6210014 ppb	95
6) VINYL CHLORIDE	1.950	62	35613	5.5385314 ppb #	94
7) 1,3-BUTADIENE	1.962	39	31927	6.4832791 ppb	86
8) BROMOMETHANE	2.200	94	21624	6.3182634 ppb	95
9) CHLOROETHANE	2.285	66	7130	6.9876520 ppb	76
10) TRICHLOROFLUOROMETHANE	2.394	101	41426	5.2260934 ppb	94
11) DICHLOROFLUOROMETHANE	2.431	67	56008	5.6152139 ppb	97
12) ETHYL ETHER	2.589	59	25432	5.6499965 ppb #	89
13) ACROLEIN	2.948	56	28551	27.5564594 ppb	87
14) 1,1-DICHLOROETHENE	2.741	61	42143	5.2907029 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	23835	5.4654305 ppb #	96
16) ACETONE	3.118	43	88027	26.4062342 ppb	99
17) IODOMETHANE	2.844	142	142134	24.5671546 ppb	99
18) CARBON DISULFIDE	2.777	76	87455	5.4365719 ppb	97
19) METHYLENE CHLORIDE	3.100	84	25859	4.8149360 ppb	91
20) ACRYLONITRILE	3.574	53	51741	23.0402636 ppb	96
21) n-Hexane	3.222	56	31611	5.9267228 ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.197	96	26644	5.5320987 ppb	93
23) METHYL TERT-BUTYL ETHER	3.240	73	81684	5.0455791 ppb	86
24) 1,1-DICHLOROETHANE	3.550	63	49998	5.0639547 ppb	96
25) VINYL ACETATE	3.660	43	252861	25.4660872 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	103371	5.2519898 ppb	96
27) 2,2-Dichloropropane	3.915	77	45472	5.5021787 ppb	96
28) CIS-1,2-DICHLOROETHENE	3.854	96	27501	5.2555604 ppb	95
29) 2-BUTANONE (MEK)	4.158	72	22657	23.7892615 ppb	94
30) BROMOCHLOROMETHANE	3.970	130	16228	5.2707100 ppb	92
31) TETRAHYDROFURAN	4.098	42	11431	5.3350299 ppb	94
32) CHLOROFORM	3.994	83	46503	5.0368652 ppb	93
34) 1,1,1-TRICHLOROETHANE	4.128	97	41469	5.5103755 ppb	98
35) CARBON TETRACHLORIDE	4.091	117	33758	4.8064056 ppb	81
36) 1,1-Dichloropropene	4.189	75	40341	5.4288250 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:23 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.238	57	123637	5.3971173 ppb		96
38)	HEPTANE	4.274	43	52918	5.0140559 ppb		90
39)	BENZENE	4.341	78	108454	5.4895555 ppb	#	89
40)	1,2-DICHLOROETHANE	4.450	62	38007	4.9898396 ppb	#	94
42)	TRICHLOROETHENE	4.663	130	25566	5.0955461 ppb		94
43)	1,2-DICHLOROPROPANE	4.986	62	22114	5.3494387 ppb		98
44)	DIBROMOMETHANE	4.925	93	16711	5.1617831 ppb		99
45)	BROMODICHLOROMETHANE	5.004	83	39670	5.3537461 ppb	#	97
47)	2-CHLOROETHYL VINYL ETHER	5.314	63	3231	24.3056439 ppb	#	72
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	47118	5.2761368 ppb	#	96
49)	4-METHYL-2-PENTANONE (...	5.746	58	60463	24.5547978 ppb		99
51)	TOLUENE	5.533	91	111944	5.3396807 ppb		97
52)	TRANS-1,3-DICHLOROPROPENE	5.789	110	10143	5.4115498 ppb		83
54)	1,1,2-TRICHLOROETHANE	5.898	97	22734	4.8371110 ppb		98
55)	TETRACHLOROETHENE	5.789	164	19988	5.4411076 ppb		95
56)	1,3-Dichloropropane	6.087	76	41766	4.8696597 ppb		97
57)	2-HEXANONE	6.294	58	65925	23.1806048 ppb		88
58)	CHLORODIBROMOMETHANE	6.026	129	25271	4.8852260 ppb		98
59)	1,2-DIBROMOETHANE	6.202	107	24883	4.9586044 ppb		98
60)	CHLOROBENZENE	6.537	112	70756	5.1068755 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	22298	4.7864024 ppb	#	87
62)	ETHYLBENZENE	6.537	106	38496	4.9890055 ppb		95
63)	M&P-XYLENE	6.628	106	99031	10.6193914 ppb		98
64)	O-XYLENE	6.939	106	45700	4.9359672 ppb		97
65)	STYRENE	6.975	104	76264	5.0707540 ppb		96
66)	Bromoform	7.018	173	14999	4.5574539 ppb		95
67)	Isopropylbenzene	7.158	105	125990	5.3115373 ppb		97
69)	Bromobenzene	7.474	77	56238	5.1604981 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	32805	4.8579024 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.632	110	8689	4.6807719 ppb	#	75
72)	TRANS-1,4-DICHLORO-2-B...	7.650	53	11077	5.2357627 ppb	#	90
73)	n-Propylbenzene	7.462	91	148606	5.1794507 ppb		99
74)	4-ETHYLTOLUENE	7.541	105	120153	5.1828140 ppb		98
75)	2-Chlorotoluene	7.602	126	24391	5.2188623 ppb	#	80
76)	4-Chlorotoluene	7.723	91	92329	5.2837757 ppb		99
77)	1,3,5-Trimethylbenzene	7.596	105	103579	5.2837914 ppb		99
78)	tert-Butylbenzene	7.845	119	90077	5.3049734 ppb		97
79)	1,2,4-Trimethylbenzene	7.900	105	108732	5.2773085 ppb		99
80)	sec-Butylbenzene	7.979	105	137696	5.2818396 ppb		99
81)	1,3-DICHLOROBENZENE	8.174	146	56274	5.1962284 ppb		96
82)	p-Isopropyltoluene	8.082	119	114024	5.2606874 ppb		99
83)	DICYCLOPENTADIENE	8.095	66	131026	5.2040261 ppb		99
85)	1,4-DICHLOROBENZENE	8.247	146	52384	4.8350473 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.247	105	102943	5.1707977 ppb		96
87)	1,2-DICHLOROBENZENE	8.581	146	54715	5.2861683 ppb		95
88)	n-Butylbenzene	8.417	91	112120	5.4426370 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.220	157	6293	4.6939194 ppb		98
90)	1,2,4-Trichlorobenzene	9.774	180	35108	5.0041358 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	19788	5.0448705 ppb		96
92)	Naphthalene	10.047	128	92444	4.7133187 ppb		96
93)	1,2,3-Trichlorobenzene	10.206	180	31884	4.8026092 ppb		98
94)	1-Methylnaphthalene	10.863	142	41421	4.2168865 ppb		99
95)	2-Methylnaphthalene	10.984	142	40860	4.9373806 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:23 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

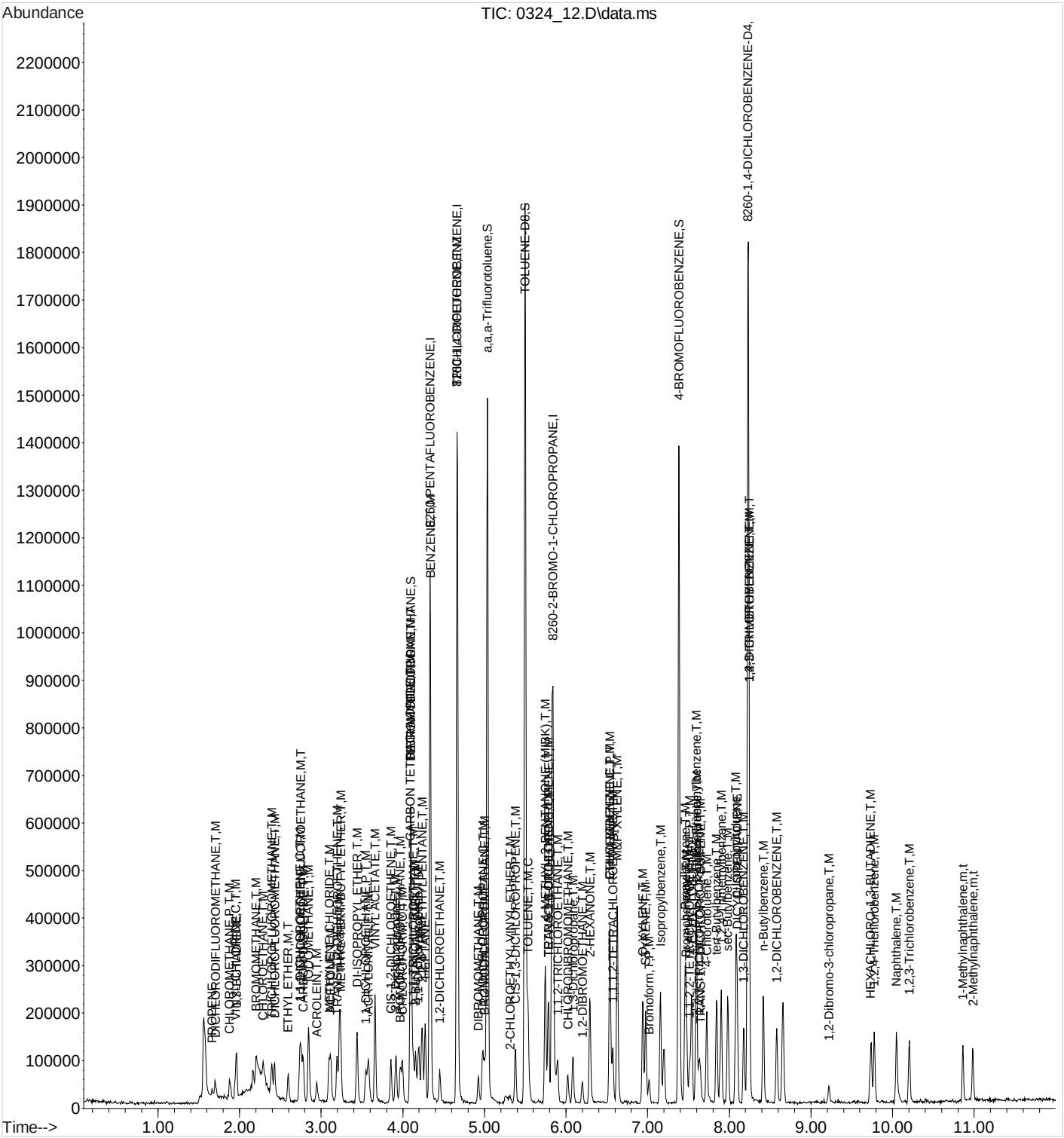
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 12.D
Acq On : 24 Mar 2015 6:26 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:23 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 13.D
Acq On : 24 Mar 2015 6:45 pm
Operator : 621
Sample : STD VMS 10 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:44 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	458267	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	788213	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	137911	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	360075	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	245126	44.2569902	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.64%			
46) a,a,a-Trifluorotoluene	5.034	146	456836	44.7745611	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 111.94%			
50) TOLUENE-D8	5.497	98	963647	43.8534617	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.63%			
68) 4-BROMOFLUOROBENZENE	7.383	95	375316	42.4314936	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.08%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	10220	10.2153152	ppb	94
4) DICHLORODIFLUOROMETHANE	1.701	85	51131	9.8719834	ppb	99
5) CHLOROMETHANE	1.883	50	68347	9.9732209	ppb	97
6) VINYL CHLORIDE	1.950	62	59932	9.4699078	ppb	95
7) 1,3-BUTADIENE	1.962	39	51170	10.5573018	ppb	99
8) BROMOMETHANE	2.199	94	36584	10.8605995	ppb	97
9) CHLOROETHANE	2.285	66	12148	12.0961577	ppb	85
10) TRICHLOROFLUOROMETHANE	2.394	101	75283	9.6494375	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	95596	9.7377109	ppb	100
12) ETHYL ETHER	2.595	59	44747	10.1002589	ppb	95
13) ACROLEIN	2.948	56	47039	46.1276244	ppb	97
14) 1,1-DICHLOROETHENE	2.741	61	79274	10.1115937	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	42306	9.8562588	ppb	92
16) ACETONE	3.118	43	160063	48.7845651	ppb	93
17) IODOMETHANE	2.844	142	278011	48.8224734	ppb	99
18) CARBON DISULFIDE	2.777	76	159650	10.0834775	ppb	95
19) METHYLENE CHLORIDE	3.100	84	53166	10.0580478	ppb	94
20) ACRYLONITRILE	3.574	53	104091	47.0941240	ppb	99
21) n-Hexane	3.228	56	52076	9.9200741	ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.191	96	45334	9.5634689	ppb	94
23) METHYL TERT-BUTYL ETHER	3.240	73	157818	9.9044753	ppb	95
24) 1,1-DICHLOROETHANE	3.550	63	93954	9.6683723	ppb	99
25) VINYL ACETATE	3.659	43	476375	48.7450196	ppb	98
26) DI-ISOPROPYL ETHER	3.440	45	192704	9.9475654	ppb	99
27) 2,2-Dichloropropane	3.921	77	77757	9.5594091	ppb	95
28) CIS-1,2-DICHLOROETHENE	3.854	96	50938	9.8903884	ppb	98
29) 2-BUTANONE (MEK)	4.158	72	42418	45.2511540	ppb	99
30) BROMOCHLOROMETHANE	3.970	130	29313	9.6730917	ppb	93
31) TETRAHYDROFURAN	4.097	42	19418	9.2078459	ppb	97
32) CHLOROFORM	3.994	83	87953	9.6790098	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.128	97	74345	10.0371477	ppb	97
35) CARBON TETRACHLORIDE	4.091	117	58103	8.4051057	ppb	84
36) 1,1-Dichloropropene	4.195	75	70915	9.6961250	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 13.D
Acq On : 24 Mar 2015 6:45 pm
Operator : 621
Sample : STD VMS 10 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:44 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.237	57	226563	10.0485477 ppb		100
38)	HEPTANE	4.274	43	97585	9.3944148 ppb		97
39)	BENZENE	4.341	78	191755	9.8614147 ppb		95
40)	1,2-DICHLOROETHANE	4.450	62	73350	9.7841708 ppb		96
42)	TRICHLOROETHENE	4.669	130	47999	9.5940491 ppb		96
43)	1,2-DICHLOROPROPANE	4.980	62	38937	9.4459402 ppb		98
44)	DIBROMOMETHANE	4.925	93	31268	9.6858828 ppb		96
45)	BROMODICHLOROMETHANE	5.004	83	72427	9.8025229 ppb	#	94
47)	2-CHLOROETHYL VINYL ETHER	5.320	63	6900	52.0548335 ppb	#	90
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	85899	9.6462632 ppb	#	98
49)	4-METHYL-2-PENTANONE (...	5.746	58	111785	45.5273110 ppb		95
51)	TOLUENE	5.533	91	200897	9.6101401 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	18270	9.7754234 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.892	97	44135	9.7704836 ppb		97
55)	TETRACHLOROETHENE	5.789	164	36382	10.3045083 ppb		96
56)	1,3-Dichloropropane	6.087	76	77506	9.4022930 ppb		97
57)	2-HEXANONE	6.288	58	130438	47.7201152 ppb		99
58)	CHLORODIBROMOMETHANE	6.026	129	47419	9.5375616 ppb		96
59)	1,2-DIBROMOETHANE	6.202	107	43237	8.9646843 ppb		85
60)	CHLOROBENZENE	6.543	112	136368	10.2406423 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.573	133	41540	9.2775331 ppb	#	95
62)	ETHYLBENZENE	6.537	106	70268	9.4749886 ppb		88
63)	M&P-XYLENE	6.628	106	175521	19.5830474 ppb		100
64)	O-XYLENE	6.938	106	86661	9.7387338 ppb		100
65)	STYRENE	6.975	104	146854	10.1592458 ppb		97
66)	Bromoform	7.018	173	31686	10.0172872 ppb		95
67)	Isopropylbenzene	7.157	105	231047	10.1346143 ppb		99
69)	Bromobenzene	7.474	77	105152	10.0392674 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	59344	9.1434120 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.632	110	17658	9.8971903 ppb		89
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	19783	9.7291003 ppb		94
73)	n-Propylbenzene	7.462	91	274468	9.9531789 ppb		99
74)	4-ETHYLTOLUENE	7.535	105	223393	10.0258982 ppb		100
75)	2-Chlorotoluene	7.602	126	47820	10.6458056 ppb	#	86
76)	4-Chlorotoluene	7.723	91	166174	9.8944588 ppb		98
77)	1,3,5-Trimethylbenzene	7.596	105	192879	10.2372104 ppb		100
78)	tert-Butylbenzene	7.845	119	157295	9.6384444 ppb		94
79)	1,2,4-Trimethylbenzene	7.900	105	194399	9.8168433 ppb		98
80)	sec-Butylbenzene	7.985	105	249782	9.9689117 ppb		99
81)	1,3-DICHLOROBENZENE	8.180	146	104970	10.0848250 ppb		96
82)	p-Isopropyltoluene	8.082	119	213939	10.2697273 ppb		98
83)	DICYCLOPENTADIENE	8.088	66	239940	9.9153344 ppb		99
85)	1,4-DICHLOROBENZENE	8.246	146	100912	9.6341128 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.240	105	194172	10.0882115 ppb		99
87)	1,2-DICHLOROBENZENE	8.581	146	103339	10.3267981 ppb		95
88)	n-Butylbenzene	8.417	91	205839	10.3352453 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.220	157	11591	8.9426380 ppb		91
90)	1,2,4-Trichlorobenzene	9.773	180	63525	9.3655766 ppb		94
91)	HEXACHLORO-1,3-BUTADIENE	9.731	225	36299	9.5721529 ppb		97
92)	Naphthalene	10.047	128	181103	9.5508179 ppb		100
93)	1,2,3-Trichlorobenzene	10.205	180	61613	9.5993903 ppb		99
94)	1-Methylnaphthalene	10.862	142	88277	9.2957780 ppb		100
95)	2-Methylnaphthalene	10.984	142	77392	9.6729993 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 13.D
Acq On : 24 Mar 2015 6:45 pm
Operator : 621
Sample : STD VMS 10 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:57:44 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 13.D
Acq On : 24 Mar 2015 6:45 pm
Operator : 621
Sample : STD VMS 10 ppb 15C23959
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Quant Time: Mar 25 12:57:44 2015
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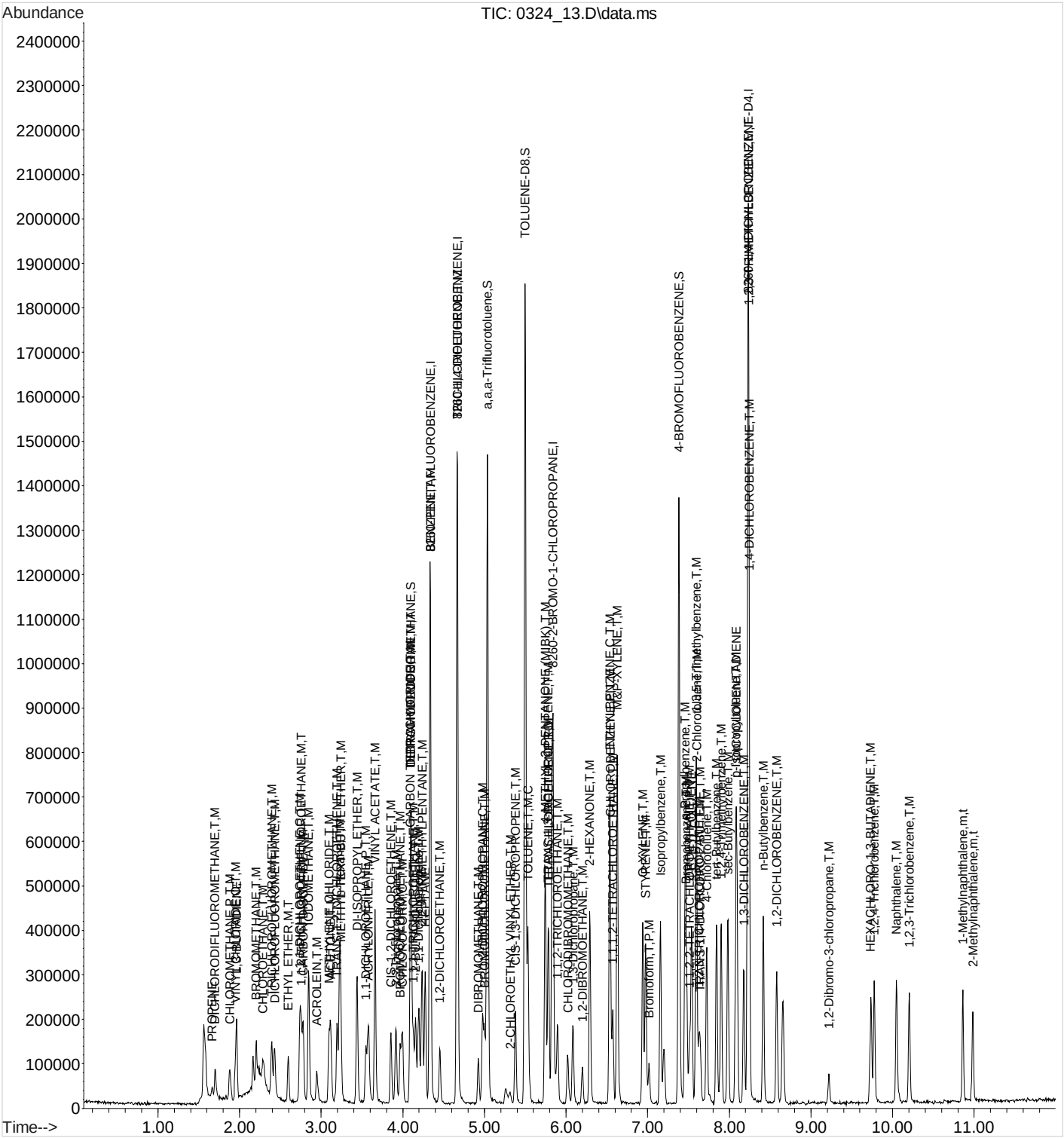
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 14.D
Acq On : 24 Mar 2015 7:04 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:04 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	450215	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	772654	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	136892	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.228	152	362378	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	244862	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	5.035	146	450073	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.50%			
50) TOLUENE-D8	5.497	98	969322	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.50%#			
68) 4-BROMOFLUOROBENZENE	7.383	95	395094	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.50%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	24572	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.707	85	127210	25.0000000	ppb	100
5) CHLOROMETHANE	1.883	50	168316	25.0000000	ppb	100
6) VINYL CHLORIDE	1.950	62	155437	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.962	39	119043	25.0000000	ppb	100
8) BROMOMETHANE	2.200	94	82733	25.0000000	ppb	100
9) CHLOROETHANE	2.285	66	25556	25.9020514	ppb	95
10) TRICHLOROFLUOROMETHANE	2.394	101	191618	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.425	67	241115	25.0000000	ppb	100
12) ETHYL ETHER	2.595	59	108811	25.0000000	ppb	100
13) ACROLEIN	2.948	56	125230	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.741	61	192554	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	105422	25.0000000	ppb	100
16) ACETONE	3.118	43	402921	125.0000000	ppb	100
17) IODOMETHANE	2.844	142	699284	125.0000000	ppb	100
18) CARBON DISULFIDE	2.777	76	388866	25.0000000	ppb	100
19) METHYLENE CHLORIDE	3.100	84	129826	25.0000000	ppb	100
20) ACRYLONITRILE	3.574	53	271430	125.0000000	ppb	100
21) n-Hexane	3.228	56	128933	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.191	96	116426	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.240	73	391351	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.550	63	238673	25.0000000	ppb	100
25) VINYL ACETATE	3.660	43	1200135	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	475790	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.915	77	199779	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.854	96	126494	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	4.158	72	115115	125.0000000	ppb	99
30) BROMOCHLOROMETHANE	3.970	130	74428	25.0000000	ppb	99
31) TETRAHYDROFURAN	4.098	42	51795	25.0000000	ppb	100
32) CHLOROFORM	3.994	83	223183	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.128	97	181921	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	4.092	117	169784	25.0000000	ppb	100
36) 1,1-Dichloropropene	4.195	75	179631	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 14.D
Acq On : 24 Mar 2015 7:04 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:04 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	553767	25.0000000	ppb		100
38) HEPTANE	4.274	43	255697	25.0559527	ppb		100
39) BENZENE	4.341	78	477583	25.0000000	ppb		100
40) 1,2-DICHLOROETHANE	4.450	62	184127	25.0000000	ppb		100
42) TRICHLOROETHENE	4.663	130	122606	25.0000000	ppb		100
43) 1,2-DICHLOROPROPANE	4.980	62	101018	25.0000000	ppb		100
44) DIBROMOMETHANE	4.925	93	79112	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	5.004	83	181069	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	16242	125.0000000	ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.381	75	218228	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.746	58	300859	125.0000000	ppb		100
51) TOLUENE	5.533	91	512301	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.783	110	45802	25.0000000	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.892	97	112095	25.0000000	ppb		100
55) TETRACHLOROETHENE	5.789	164	87615	25.0000000	ppb		100
56) 1,3-Dichloropropane	6.081	76	204560	25.0000000	ppb		100
57) 2-HEXANONE	6.288	58	339150	125.0000000	ppb		100
58) CHLORODIBROMOMETHANE	6.020	129	123377	25.0000000	ppb		100
59) 1,2-DIBROMOETHANE	6.203	107	119685	25.0000000	ppb		100
60) CHLOROBENZENE	6.537	112	330449	25.0000000	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.574	133	111110	25.0000000	ppb	#	100
62) ETHYLBENZENE	6.537	106	184034	25.0000000	ppb		100
63) M&P-XYLENE	6.628	106	444834	50.0000000	ppb		100
64) O-XYLENE	6.939	106	220821	25.0000000	ppb		100
65) STYRENE	6.975	104	364158	25.3796939	ppb		99
66) Bromoform	7.018	173	78494	25.0000000	ppb		100
67) Isopropylbenzene	7.158	105	565734	25.0000000	ppb		100
69) Bromobenzene	7.474	77	259917	25.0000000	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	161060	25.0000000	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.626	110	44274	25.0000000	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	50459	25.0000000	ppb		100
73) n-Propylbenzene	7.462	91	684304	25.0000000	ppb		100
74) 4-ETHYLTOLUENE	7.535	105	552924	25.0000000	ppb		100
75) 2-Chlorotoluene	7.596	126	124359	27.8911885	ppb	#	97
76) 4-Chlorotoluene	7.723	91	416764	25.0000000	ppb		100
77) 1,3,5-Trimethylbenzene	7.596	105	467544	25.0000000	ppb		100
78) tert-Butylbenzene	7.845	119	404974	25.0000000	ppb		100
79) 1,2,4-Trimethylbenzene	7.900	105	491407	25.0000000	ppb		100
80) sec-Butylbenzene	7.985	105	621774	25.0000000	ppb		100
81) 1,3-DICHLOROBENZENE	8.180	146	258295	25.0000000	ppb		100
82) p-Isopropyltoluene	8.082	119	516952	25.0000000	ppb		100
83) DICYCLOPENTADIENE	8.095	66	600502	25.0000000	ppb		100
85) 1,4-DICHLOROBENZENE	8.241	146	263536	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.241	105	484263	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.581	146	251772	25.0000000	ppb		100
88) n-Butylbenzene	8.417	91	501090	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.226	157	32611	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.774	180	170655	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.737	225	95410	25.0000000	ppb		100
92) Naphthalene	10.047	128	477083	25.0000000	ppb		100
93) 1,2,3-Trichlorobenzene	10.206	180	161487	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.863	142	238930	25.0000000	ppb		100
95) 2-Methylnaphthalene	10.978	142	201300	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 14.D
Acq On : 24 Mar 2015 7:04 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:04 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

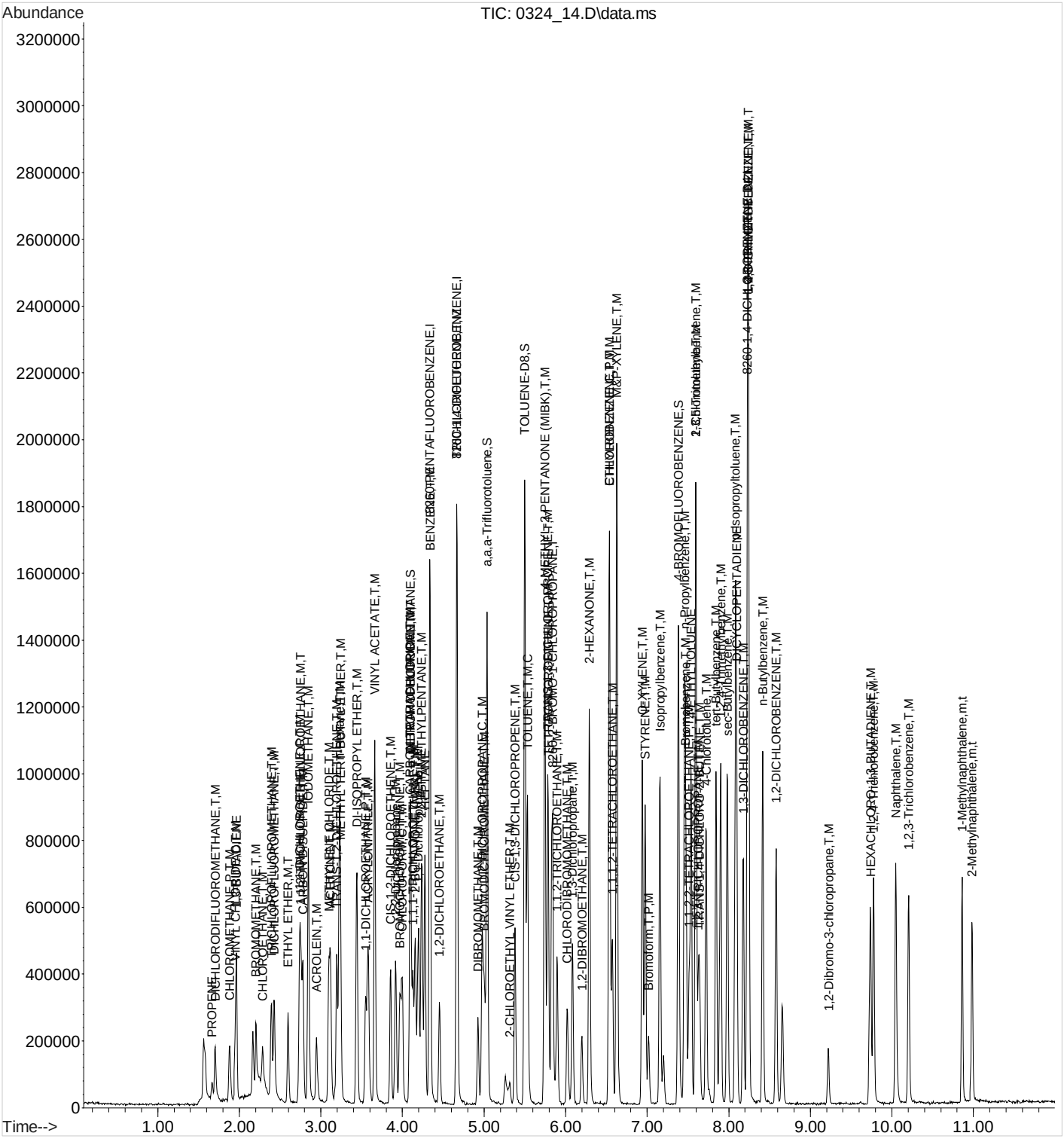
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 14.D
Acq On : 24 Mar 2015 7:04 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:04 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 15.D
Acq On : 24 Mar 2015 7:23 pm
Operator : 621
Sample : STD VMS 40 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	459069	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	789768	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	138743	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	367415	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.24
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	248668	44.8180562 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.05%		
46) a,a,a-Trifluorotoluene	5.034	146	458358	44.8352808 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.09%		
50) TOLUENE-D8	5.497	98	977189	44.3821706 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.96%		
68) 4-BROMOFLUOROBENZENE	7.383	95	397244	44.6412568 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 111.60%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	45382	45.2819507 ppb	96
4) DICHLORODIFLUOROMETHANE	1.707	85	215734	41.5795080 ppb	97
5) CHLOROMETHANE	1.883	50	280192	40.8142981 ppb	99
6) VINYL CHLORIDE	1.944	62	263357	41.5405711 ppb	100
7) 1,3-BUTADIENE	1.962	39	210568	43.3681116 ppb	98
8) BROMOMETHANE	2.200	94	137415	40.7227757 ppb	93
9) CHLOROETHANE	2.285	66	41932	41.6801096 ppb	89
10) TRICHLOROFLUOROMETHANE	2.388	101	316719	40.5247008 ppb	99
11) DICHLOROFLUOROMETHANE	2.425	67	408706	41.5593539 ppb	99
12) ETHYL ETHER	2.595	59	177859	40.0760627 ppb	97
13) ACROLEIN	2.948	56	184500	180.6092531 ppb	99
14) 1,1-DICHLOROETHENE	2.741	61	321755	40.9689433 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	181884	42.3004754 ppb	100
16) ACETONE	3.118	43	616582	187.5957286 ppb	97
17) IODOMETHANE	2.844	142	1211167	212.3256414 ppb	99
18) CARBON DISULFIDE	2.777	76	661820	41.7274569 ppb	98
19) METHYLENE CHLORIDE	3.094	84	202391	38.2218340 ppb	95
20) ACRYLONITRILE	3.574	53	415567	187.6874411 ppb	100
21) n-Hexane	3.222	56	207717	39.4993506 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.191	96	196305	41.3393256 ppb	98
23) METHYL TERT-BUTYL ETHER	3.240	73	612821	38.3927476 ppb	95
24) 1,1-DICHLOROETHANE	3.550	63	388662	39.9255393 ppb	99
25) VINYL ACETATE	3.660	43	1734119	177.1335400 ppb	98
26) DI-ISOPROPYL ETHER	3.441	45	777810	40.0811538 ppb	96
27) 2,2-Dichloropropane	3.915	77	335258	41.1444553 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.854	96	216945	42.0495857 ppb	95
29) 2-BUTANONE (MEK)	4.158	72	175142	186.5135523 ppb	94
30) BROMOCHLOROMETHANE	3.970	130	122264	40.2758072 ppb	98
31) TETRAHYDROFURAN	4.098	42	78093	36.9663245 ppb	99
32) CHLOROFORM	3.994	83	363381	39.9193175 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.128	97	314299	42.3586555 ppb	98
35) CARBON TETRACHLORIDE	4.091	117	263500	38.0509813 ppb	89
36) 1,1-Dichloropropene	4.195	75	296617	40.4852432 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 15.D
Acq On : 24 Mar 2015 7:23 pm
Operator : 621
Sample : STD VMS 40 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	931726	41.2518230 ppb		98
38) HEPTANE	4.274	43	399249	38.3681730 ppb		94
39) BENZENE	4.335	78	813438	41.7597221 ppb		97
40) 1,2-DICHLOROETHANE	4.450	62	302644	40.2992157 ppb		98
42) TRICHLOROETHENE	4.663	130	204311	40.7573143 ppb		99
43) 1,2-DICHLOROPROPANE	4.980	62	160943	38.9671694 ppb		95
44) DIBROMOMETHANE	4.925	93	131675	40.7086309 ppb		98
45) BROMODICHLOROMETHANE	5.004	83	289431	39.0954733 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	29778	224.2082334 ppb		93
48) CIS-1,3-DICHLOROPROPENE	5.381	75	374715	41.9967941 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.746	58	448699	182.3843759 ppb		99
51) TOLUENE	5.533	91	846754	40.4257035 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.783	110	76087	40.6304424 ppb		95
54) 1,1,2-TRICHLOROETHANE	5.898	97	179202	39.4333440 ppb		98
55) TETRACHLOROETHENE	5.789	164	155298	43.7214336 ppb		95
56) 1,3-Dichloropropane	6.081	76	323670	39.0291173 ppb		100
57) 2-HEXANONE	6.288	58	508494	184.9145190 ppb		99
58) CHLORODIBROMOMETHANE	6.020	129	200035	39.9925210 ppb		99
59) 1,2-DIBROMOETHANE	6.202	107	184383	38.0003983 ppb		93
60) CHLOROBENZENE	6.537	112	543676	40.5828662 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.574	133	177345	39.3706693 ppb	#	96
62) ETHYLBENZENE	6.537	106	306878	41.1315131 ppb		98
63) M&P-XYLENE	6.628	106	736645	81.6953360 ppb		100
64) O-XYLENE	6.939	106	361295	40.3579014 ppb		98
65) STYRENE	6.975	104	600460	41.2902578 ppb		99
66) Bromoform	7.018	173	126916	39.8829167 ppb		98
67) Isopropylbenzene	7.158	105	976220	42.5639983 ppb		100
69) Bromobenzene	7.474	77	426902	40.5135687 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.510	83	245094	37.5363449 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.632	110	66826	37.2309143 ppb	#	84
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	77660	37.9634561 ppb		99
73) n-Propylbenzene	7.462	91	1162972	41.9205697 ppb		100
74) 4-ETHYLTOLUENE	7.535	105	934930	41.7081235 ppb		98
75) 2-Chlorotoluene	7.602	126	207310	45.8751016 ppb	#	94
76) 4-Chlorotoluene	7.717	91	701316	41.5078794 ppb		99
77) 1,3,5-Trimethylbenzene	7.596	105	789744	41.6649479 ppb		100
78) tert-Butylbenzene	7.845	119	694455	42.2984023 ppb		98
79) 1,2,4-Trimethylbenzene	7.900	105	802540	40.2839776 ppb		97
80) sec-Butylbenzene	7.985	105	1076239	42.6956043 ppb		100
81) 1,3-DICHLOROBENZENE	8.180	146	446532	42.6425910 ppb		97
82) p-Isopropyltoluene	8.082	119	893548	42.6358243 ppb		98
83) DICYCLOPENTADIENE	8.095	66	1000865	41.1119466 ppb		100
85) 1,4-DICHLOROBENZENE	8.247	146	424964	39.7609856 ppb	#	62
86) 1,2,3-TRIMETHYLBENZENE	8.247	105	793284	40.3917209 ppb		96
87) 1,2-DICHLOROBENZENE	8.581	146	422540	41.3814160 ppb		97
88) n-Butylbenzene	8.417	91	859361	42.2868032 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.220	157	55842	42.2222913 ppb		92
90) 1,2,4-Trichlorobenzene	9.774	180	282707	40.8472191 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.737	225	159606	41.2477504 ppb		98
92) Naphthalene	10.047	128	764463	39.5100408 ppb		100
93) 1,2,3-Trichlorobenzene	10.206	180	267194	40.7975501 ppb		99
94) 1-Methylnaphthalene	10.863	142	391245	40.3759791 ppb		99
95) 2-Methylnaphthalene	10.978	142	326339	39.9733138 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 15.D
Acq On : 24 Mar 2015 7:23 pm
Operator : 621
Sample : STD VMS 40 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

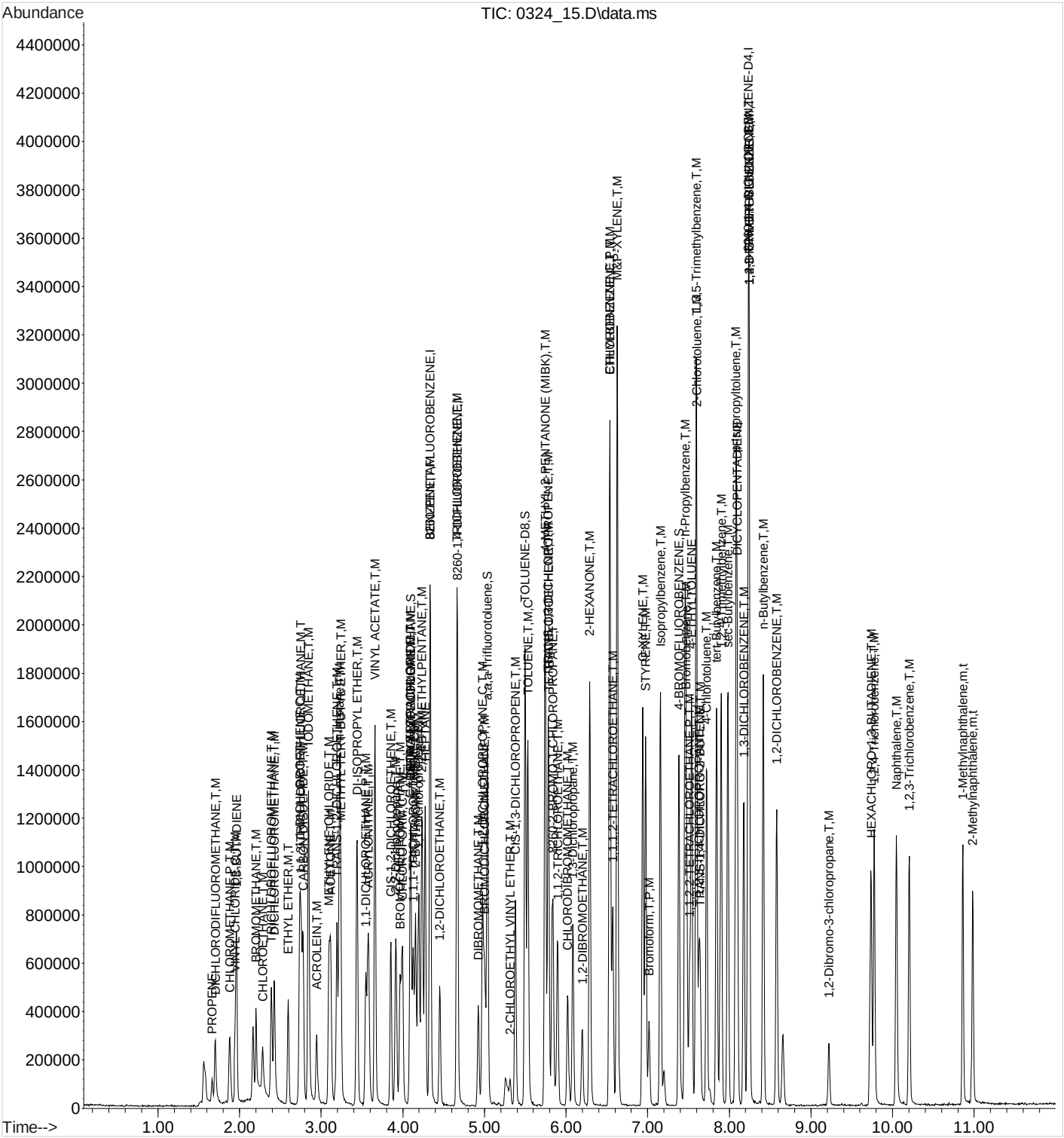
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 15.D
Acq On : 24 Mar 2015 7:23 pm
Operator : 621
Sample : STD VMS 40 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:26 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 16.D
Acq On : 24 Mar 2015 7:43 pm
Operator : 621
Sample : STD VMS 75 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:47 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.335	168	461477	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	774984	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	131704	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	379766	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.24
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.098	111	242911	43.5520100 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 108.88%		
46) a,a,a-Trifluorotoluene	5.034	146	455577	45.4133631 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 113.53%		
50) TOLUENE-D8	5.497	98	967777	44.7931971 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 111.98%#		
68) 4-BROMOFLUOROBENZENE	7.383	95	413496	48.9511045 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 122.38%		
Target Compounds					Qvalue
3) PROPENE	1.664	41	72295	71.7592125 ppb	99
4) DICHLORODIFLUOROMETHANE	1.707	85	386695	74.1407905 ppb	98
5) CHLOROMETHANE	1.877	50	496562	71.9545048 ppb	99
6) VINYL CHLORIDE	1.950	62	463890	72.7897979 ppb	99
7) 1,3-BUTADIENE	1.962	39	351358	71.9873011 ppb	99
8) BROMOMETHANE	2.199	94	243284	71.7207271 ppb	95
9) CHLOROETHANE	2.279	66	68390	67.6244561 ppb	93
10) TRICHLOROFLUOROMETHANE	2.388	101	560362	71.3250824 ppb	99
11) DICHLOROFLUOROMETHANE	2.425	67	722643	73.0986707 ppb	100
12) ETHYL ETHER	2.595	59	323818	72.5835312 ppb	97
13) ACROLEIN	2.948	56	341976	333.0175799 ppb	98
14) 1,1-DICHLOROETHENE	2.741	61	572007	72.4533895 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	328220	75.9352975 ppb	96
16) ACETONE	3.118	43	1107926	335.3287298 ppb	96
17) IODOMETHANE	2.844	142	2212297	385.8066879 ppb	99
18) CARBON DISULFIDE	2.777	76	1150861	72.1826478 ppb	98
19) METHYLENE CHLORIDE	3.094	84	371076	69.7125708 ppb	98
20) ACRYLONITRILE	3.574	53	731992	328.8731369 ppb	99
21) n-Hexane	3.222	56	361636	68.4096672 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.191	96	350672	73.4617081 ppb	97
23) METHYL TERT-BUTYL ETHER	3.240	73	1107056	68.9942742 ppb	97
24) 1,1-DICHLOROETHANE	3.550	63	697195	71.2460646 ppb	99
25) VINYL ACETATE	3.660	43	3132655	318.3188667 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	1397868	71.6573530 ppb	98
27) 2,2-Dichloropropane	3.915	77	591626	72.2282887 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.854	96	381257	73.5119272 ppb	97
29) 2-BUTANONE (MEK)	4.158	72	319538	338.5092243 ppb	96
30) BROMOCHLOROMETHANE	3.970	130	218533	71.6127889 ppb	99
31) TETRAHYDROFURAN	4.091	42	135267	63.6962595 ppb	94
32) CHLOROFORM	3.994	83	650645	71.1038136 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.128	97	554777	74.3781756 ppb	98
35) CARBON TETRACHLORIDE	4.091	117	519848	74.6774578 ppb	90
36) 1,1-Dichloropropene	4.195	75	524120	71.1638365 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 16.D
Acq On : 24 Mar 2015 7:43 pm
Operator : 621
Sample : STD VMS 75 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:47 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.231	57	1654468	72.8687313 ppb		99
38)	HEPTANE	4.274	43	746138	71.3303487 ppb		96
39)	BENZENE	4.341	78	1451874	74.1463842 ppb		98
40)	1,2-DICHLOROETHANE	4.450	62	558727	74.0102873 ppb		98
42)	TRICHLOROETHENE	4.663	130	368142	74.8403781 ppb		99
43)	1,2-DICHLOROPROPANE	4.980	62	296412	73.1356870 ppb		97
44)	DIBROMOMETHANE	4.925	93	239814	75.5552242 ppb		98
45)	BROMODICHLOROMETHANE	5.004	83	518544	71.3795556 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.314	63	52108	399.8225017 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.381	75	666709	76.1479428 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.746	58	813190	336.8459698 ppb		99
51)	TOLUENE	5.533	91	1526635	74.2749453 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.783	110	134976	73.4521379 ppb		94
54)	1,1,2-TRICHLOROETHANE	5.892	97	327856	76.0004225 ppb		99
55)	TETRACHLOROETHENE	5.789	164	269782	80.0117219 ppb		97
56)	1,3-Dichloropropane	6.081	76	584312	74.2238030 ppb		100
57)	2-HEXANONE	6.288	58	933339	357.5499391 ppb		96
58)	CHLORODIBROMOMETHANE	6.026	129	369412	77.8029215 ppb		99
59)	1,2-DIBROMOETHANE	6.202	107	345895	75.0971875 ppb		95
60)	CHLOROBENZENE	6.537	112	988945	77.7654714 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.574	133	328477	76.8194034 ppb	#	96
62)	ETHYLBENZENE	6.537	106	538060	75.9716841 ppb		99
63)	M&P-XYLENE	6.628	106	1325269	154.8300210 ppb		98
64)	O-XYLENE	6.939	106	663348	78.0584932 ppb		100
65)	STYRENE	6.975	104	1106077	80.1236988 ppb		98
66)	Bromoform	7.018	173	245857	81.3889094 ppb		97
67)	Isopropylbenzene	7.158	105	1763099	80.9810738 ppb		99
69)	Bromobenzene	7.474	77	769135	76.8930347 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.510	83	452115	72.9424478 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.632	110	126963	74.5156557 ppb	#	85
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	145884	75.1256315 ppb		99
73)	n-Propylbenzene	7.462	91	2096902	79.6247657 ppb		99
74)	4-ETHYLTOLUENE	7.535	105	1670539	78.5073449 ppb		97
75)	2-Chlorotoluene	7.596	126	387024	90.2208263 ppb	#	89
76)	4-Chlorotoluene	7.723	91	1284300	80.0747142 ppb		99
77)	1,3,5-Trimethylbenzene	7.596	105	1419932	78.9158377 ppb		97
78)	tert-Butylbenzene	7.845	119	1249671	80.1839898 ppb		98
79)	1,2,4-Trimethylbenzene	7.900	105	1441098	76.2028631 ppb		97
80)	sec-Butylbenzene	7.979	105	1940972	81.1158689 ppb		99
81)	1,3-DICHLOROBENZENE	8.180	146	802762	80.7588115 ppb		98
82)	p-Isopropyltoluene	8.082	119	1605517	80.7019076 ppb		98
83)	DICYCLOPENTADIENE	8.094	66	1764361	76.3470223 ppb		98
85)	1,4-DICHLOROBENZENE	8.247	146	811215	73.4313943 ppb	#	31
86)	1,2,3-TRIMETHYLBENZENE	8.240	105	1447783	71.3194420 ppb		98
87)	1,2-DICHLOROBENZENE	8.581	146	786409	74.5120990 ppb		97
88)	n-Butylbenzene	8.417	91	1566402	74.5715629 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.220	157	103416	75.6500765 ppb		94
90)	1,2,4-Trichlorobenzene	9.774	180	526737	73.6309766 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	288646	72.1701154 ppb		96
92)	Naphthalene	10.047	128	1434521	71.7296515 ppb		98
93)	1,2,3-Trichlorobenzene	10.205	180	489411	72.2972723 ppb		98
94)	1-Methylnaphthalene	10.863	142	734140	73.2983092 ppb		97
95)	2-Methylnaphthalene	10.978	142	596853	70.7309284 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 16.D
Acq On : 24 Mar 2015 7:43 pm
Operator : 621
Sample : STD VMS 75 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:47 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

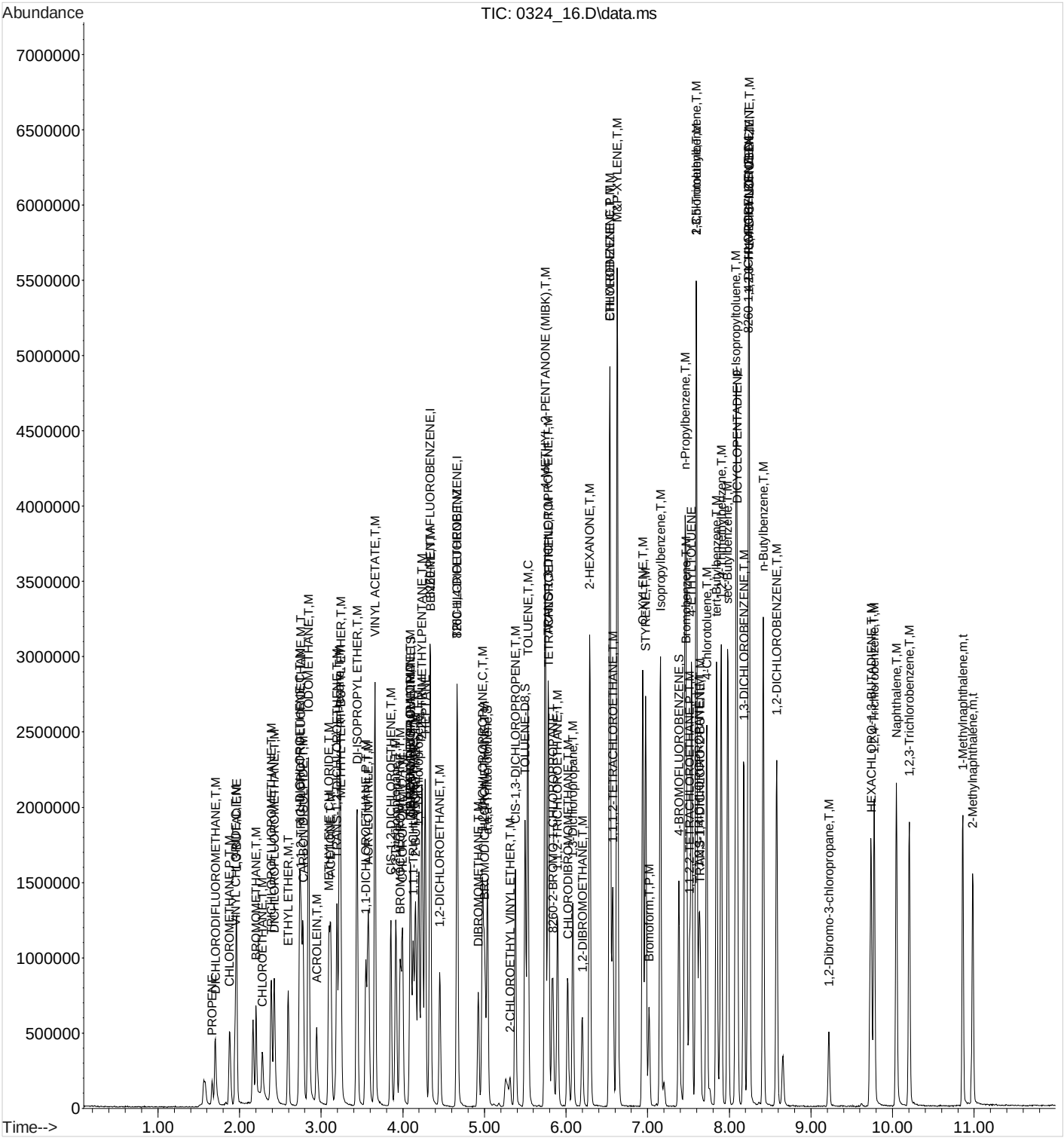
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 16.D
Acq On : 24 Mar 2015 7:43 pm
Operator : 621
Sample : STD VMS 75 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:58:47 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 17.D
Acq On : 24 Mar 2015 8:02 pm
Operator : 621
Sample : STD VMS 100 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	462905	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	787406	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	139371	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	399253	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	252596	45.1487446	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.87%			
46) a,a,a-Trifluorotoluene	5.034	146	467391	45.8560071	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 114.64%#			
50) TOLUENE-D8	5.497	98	985405	44.8895801	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.22%#			
68) 4-BROMOFLUOROBENZENE	7.383	95	432770	48.4144363	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 121.04%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	106529	105.4133077	ppb	97
4) DICHLORODIFLUOROMETHANE	1.701	85	559336	106.9103169	ppb	99
5) CHLOROMETHANE	1.877	50	694544	100.3326908	ppb	99
6) VINYL CHLORIDE	1.944	62	681891	106.6666486	ppb	97
7) 1,3-BUTADIENE	1.956	39	497312	101.5764833	ppb	99
8) BROMOMETHANE	2.200	94	346013	101.6908180	ppb	95
9) CHLOROETHANE	2.279	66	90150	88.8658913	ppb	89
10) TRICHLOROFLUOROMETHANE	2.382	101	795737	100.9720902	ppb	98
11) DICHLOROFLUOROMETHANE	2.419	67	1003356	101.1809890	ppb	98
12) ETHYL ETHER	2.595	59	453429	101.3221948	ppb	95
13) ACROLEIN	2.948	56	477023	463.0938788	ppb	100
14) 1,1-DICHLOROETHENE	2.735	61	809227	102.1847101	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	467732	107.8782591	ppb	98
16) ACETONE	3.118	43	1514084	456.8442558	ppb	98
17) IODOMETHANE	2.844	142	3201393	556.5747517	ppb	98
18) CARBON DISULFIDE	2.771	76	1630834	101.9712825	ppb	98
19) METHYLENE CHLORIDE	3.094	84	511519	95.8005916	ppb	99
20) ACRYLONITRILE	3.574	53	1033888	463.0775743	ppb	99
21) n-Hexane	3.222	56	508832	95.9573897	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.191	96	497670	103.9344644	ppb	96
23) METHYL TERT-BUTYL ETHER	3.234	73	1534255	95.3233281	ppb	94
24) 1,1-DICHLOROETHANE	3.550	63	980829	99.9213064	ppb	99
25) VINYL ACETATE	3.660	43	4137370	419.1141864	ppb	100
26) DI-ISOPROPYL ETHER	3.434	45	1924102	98.3288316	ppb	97
27) 2,2-Dichloropropane	3.915	77	831584	101.2102243	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.854	96	540249	103.8465667	ppb	94
29) 2-BUTANONE (MEK)	4.158	72	450366	475.6327825	ppb	93
30) BROMOCHLOROMETHANE	3.970	130	297709	97.2576367	ppb	99
31) TETRAHYDROFURAN	4.098	42	194268	91.1972052	ppb	98
32) CHLOROFORM	3.994	83	900544	98.1096945	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.128	97	770835	103.0259644	ppb	99
35) CARBON TETRACHLORIDE	4.092	117	745740	106.7969315	ppb	88
36) 1,1-Dichloropropene	4.195	75	748626	101.3331903	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 17.D
Acq On : 24 Mar 2015 8:02 pm
Operator : 621
Sample : STD VMS 100 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	2374006	104.2372242 ppb		98
38) HEPTANE	4.274	43	1032214	98.3746324 ppb		94
39) BENZENE	4.335	78	2053641	104.5547491 ppb		97
40) 1,2-DICHLOROETHANE	4.450	62	779789	102.9740336 ppb		98
42) TRICHLOROETHENE	4.663	130	523855	104.8155496 ppb		99
43) 1,2-DICHLOROPROPANE	4.980	62	397023	96.4146984 ppb		94
44) DIBROMOMETHANE	4.925	93	334656	103.7725761 ppb		99
45) BROMODICHLOROMETHANE	5.004	83	732790	99.2800020 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	79275	598.6777187 ppb		92
48) CIS-1,3-DICHLOROPROPENE	5.381	75	922648	103.7174709 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.746	58	1123233	457.9343243 ppb		99
51) TOLUENE	5.533	91	2157988	103.3356482 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.783	110	189378	101.4311687 ppb		90
54) 1,1,2-TRICHLOROETHANE	5.892	97	468392	102.6050860 ppb		96
55) TETRACHLOROETHENE	5.789	164	392600	110.0316159 ppb		96
56) 1,3-Dichloropropane	6.081	76	822888	98.7792388 ppb		99
57) 2-HEXANONE	6.288	58	1276334	462.0491573 ppb		96
58) CHLORODIBROMOMETHANE	6.020	129	519946	103.4831635 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	490670	100.6689277 ppb		99
60) CHLOROBENZENE	6.537	112	1377070	102.3286480 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.574	133	458012	101.2207079 ppb	#	98
62) ETHYLBENZENE	6.531	106	769492	102.6719250 ppb		98
63) M&P-XYLENE	6.628	106	1899129	209.6679979 ppb		98
64) O-XYLENE	6.939	106	969207	107.7759429 ppb		94
65) STYRENE	6.975	104	1548118	105.9756862 ppb		98
66) Bromoform	7.018	173	352691	110.3325302 ppb		97
67) Isopropylbenzene	7.158	105	2521837	109.4587271 ppb		99
69) Bromobenzene	7.474	77	1074352	101.4980204 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	634437	96.7267218 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.632	110	173822	96.4054626 ppb	#	80
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	206391	100.4379355 ppb		98
73) n-Propylbenzene	7.462	91	3032711	108.8247327 ppb		99
74) 4-ETHYLTOLUENE	7.541	105	2424922	107.6906488 ppb		97
75) 2-Chlorotoluene	7.602	126	543706	119.7731793 ppb	#	90
76) 4-Chlorotoluene	7.723	91	1804633	106.3271953 ppb		100
77) 1,3,5-Trimethylbenzene	7.596	105	2042249	107.2585361 ppb		99
78) tert-Butylbenzene	7.845	119	1781025	107.9912418 ppb		98
79) 1,2,4-Trimethylbenzene	7.900	105	2066436	103.2586117 ppb		97
80) sec-Butylbenzene	7.985	105	2793248	110.3119597 ppb		99
81) 1,3-DICHLOROBENZENE	8.180	146	1136846	108.0765070 ppb		98
82) p-Isopropyltoluene	8.082	119	2317124	110.0638542 ppb		97
83) DICYCLOPENTADIENE	8.095	66	2518610	102.9893047 ppb		98
85) 1,4-DICHLOROBENZENE	8.247	146	1136954	97.8941159 ppb	#	22
86) 1,2,3-TRIMETHYLBENZENE	8.241	105	2049784	96.0462593 ppb		96
87) 1,2-DICHLOROBENZENE	8.581	146	1101183	99.2443319 ppb		98
88) n-Butylbenzene	8.417	91	2229187	100.9449065 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.220	157	148735	103.4910291 ppb		96
90) 1,2,4-Trichlorobenzene	9.774	180	716214	95.2308001 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.731	225	409197	97.3177791 ppb		99
92) Naphthalene	10.047	128	2046723	97.3461484 ppb		99
93) 1,2,3-Trichlorobenzene	10.206	180	680548	95.6257468 ppb		99
94) 1-Methylnaphthalene	10.863	142	1068637	101.4876434 ppb		97
95) 2-Methylnaphthalene	10.978	142	867989	97.8417227 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 17.D
Acq On : 24 Mar 2015 8:02 pm
Operator : 621
Sample : STD VMS 100 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

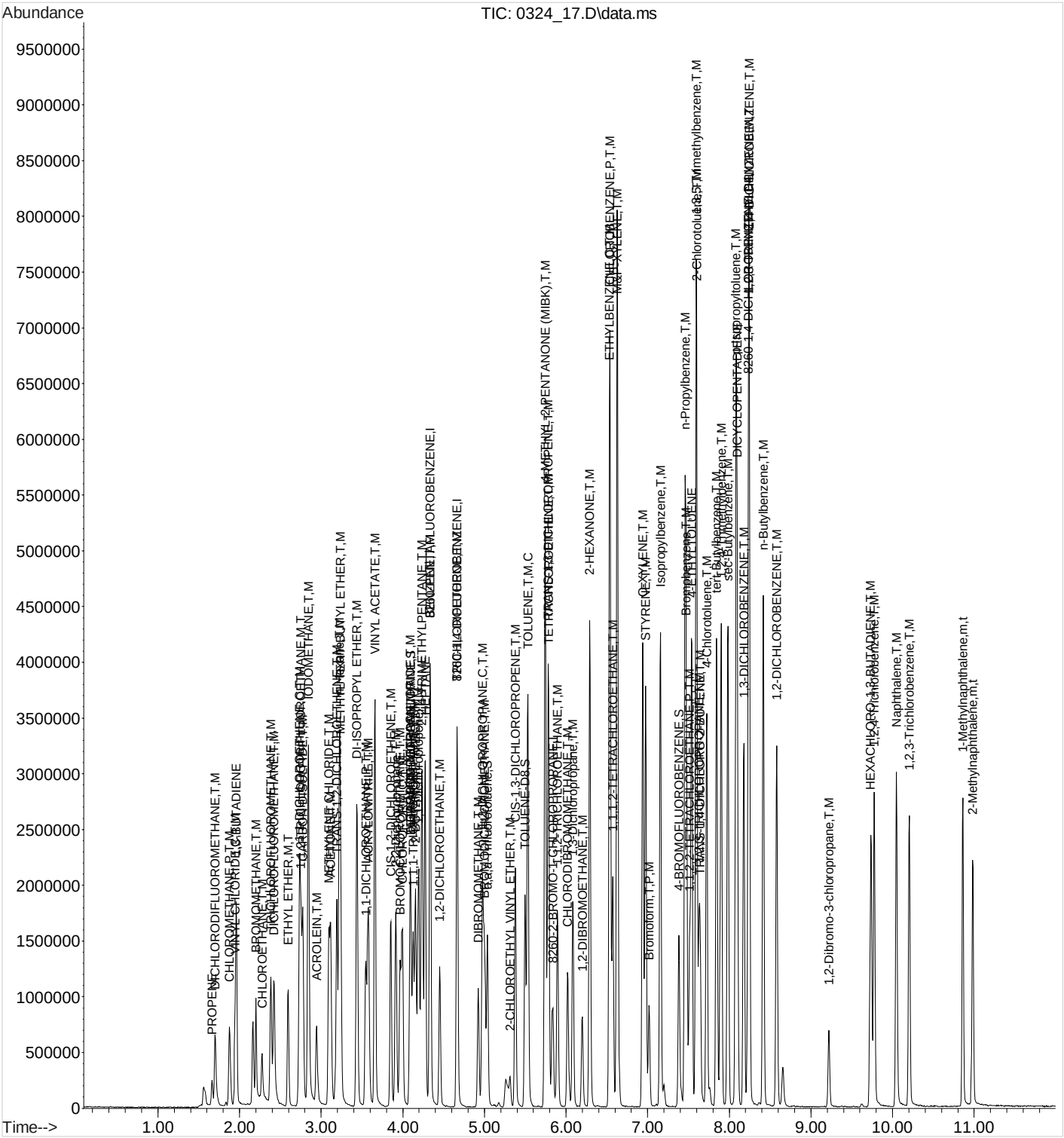
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 17.D
Acq On : 24 Mar 2015 8:02 pm
Operator : 621
Sample : STD VMS 100 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:07 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 18.D
Acq On : 24 Mar 2015 8:21 pm
Operator : 621
Sample : STD VMS 200 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:29 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	456901	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	775736	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.838	79	145906	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	406940	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.24
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.098	111	248908	45.0741794	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.69%			
46) a,a,a-Trifluorotoluene	5.035	146	469711	46.7768955	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 116.94%#			
50) TOLUENE-D8	5.497	98	1007216	46.5734243	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.43%#			
68) 4-BROMOFLUOROBENZENE	7.383	95	456745	48.8079760	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 122.02%			
Target Compounds						Qvalue
3) PROPENE	1.664	41	250460	251.0936502	ppb	99
4) DICHLORODIFLUOROMETHANE	1.701	85	1343439	260.1564272	ppb	99
5) CHLOROMETHANE	1.877	50	1644954	240.7499561	ppb	98
6) VINYL CHLORIDE	1.944	62	1559598	247.1702089	ppb	99
7) 1,3-BUTADIENE	1.956	39	1127063	233.2288067	ppb	98
8) BROMOMETHANE	2.200	94	832491	247.8783719	ppb	95
9) CHLOROETHANE	2.273	66	119886	119.7312740	ppb	97
10) TRICHLOROFLUOROMETHANE	2.370	101	1953696	251.1646674	ppb	98
11) DICHLOROFLUOROMETHANE	2.412	67	2386196	243.7921654	ppb	97
12) ETHYL ETHER	2.589	59	1099390	248.8953834	ppb	96
13) ACROLEIN	2.948	56	1162583	1143.4665179	ppb	99
14) 1,1-DICHLOROETHENE	2.735	61	1872410	239.5445352	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.747	101	1079272	252.1956083	ppb	97
16) ACETONE	3.118	43	3538415	1081.6748428	ppb	97
17) IODOMETHANE	2.838	142	8041026	1416.3341925	ppb	96
18) CARBON DISULFIDE	2.771	76	3936207	249.3537002	ppb	96
19) METHYLENE CHLORIDE	3.094	84	1256896	238.4929405	ppb	97
20) ACRYLONITRILE	3.574	53	2467258	1119.6043677	ppb	98
21) n-Hexane	3.222	56	1189465	227.2612757	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.185	96	1185780	250.8949990	ppb	97
23) METHYL TERT-BUTYL ETHER	3.234	73	3698544	232.8103064	ppb	96
24) 1,1-DICHLOROETHANE	3.544	63	2350926	242.6462186	ppb	100
25) VINYL ACETATE	3.660	43	9859326	1011.8706296	ppb	100
26) DI-ISOPROPYL ETHER	3.435	45	4555577	235.8663260	ppb	95
27) 2,2-Dichloropropane	3.915	77	1976906	243.7665131	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.848	96	1301810	253.5219332	ppb	94
29) 2-BUTANONE (MEK)	4.158	72	1054095	1127.8613137	ppb	93
30) BROMOCHLOROMETHANE	3.970	130	725903	240.2592422	ppb	94
31) TETRAHYDROFURAN	4.098	42	450499	214.2613586	ppb	98
32) CHLOROFORM	3.994	83	2145081	236.7666044	ppb	96
34) 1,1,1-TRICHLOROETHANE	4.128	97	1873120	253.6416834	ppb	98
35) CARBON TETRACHLORIDE	4.092	117	1818093	263.7893114	ppb	89
36) 1,1-Dichloropropene	4.189	75	1768771	242.5650256	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 18.D
Acq On : 24 Mar 2015 8:21 pm
Operator : 621
Sample : STD VMS 200 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:29 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.231	57	5642077	250.9861736 ppb		96
38) HEPTANE	4.274	43	2382004	229.9988301 ppb		92
39) BENZENE	4.335	78	4959089	255.7943243 ppb		95
40) 1,2-DICHLOROETHANE	4.450	62	1853052	247.9179602 ppb		98
42) TRICHLOROETHENE	4.663	130	1248057	253.4742321 ppb		98
43) 1,2-DICHLOROPROPANE	4.980	62	958968	236.3831246 ppb		98
44) DIBROMOMETHANE	4.925	93	819630	257.9803346 ppb		98
45) BROMODICHLOROMETHANE	5.004	83	1750440	240.7211477 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.314	63	183829	1409.1448650 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.381	75	2212373	252.4404796 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.746	58	2632108	1089.2355854 ppb		92
51) TOLUENE	5.533	91	5166177	251.1049058 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.783	110	450232	244.7727325 ppb		94
54) 1,1,2-TRICHLOROETHANE	5.898	97	1110110	232.2868900 ppb		96
55) TETRACHLOROETHENE	5.789	164	966708	258.7985109 ppb		95
56) 1,3-Dichloropropane	6.081	76	1979633	226.9911346 ppb		100
57) 2-HEXANONE	6.288	58	3044646	1052.8340287 ppb		91
58) CHLORODIBROMOMETHANE	6.020	129	1299196	246.9934263 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	1200048	235.1818591 ppb		96
60) CHLOROBENZENE	6.537	112	3411275	242.1348022 ppb		92
61) 1,1,1,2-TETRACHLOROETHANE	6.574	133	1139187	240.4843386 ppb	#	98
62) ETHYLBENZENE	6.537	106	1852045	236.0469509 ppb		99
63) M&P-XYLENE	6.634	106	4704341	496.1074419 ppb		91
64) O-XYLENE	6.939	106	2344297	249.0102276 ppb		93
65) STYRENE	6.975	104	3847600	251.5888314 ppb		95
66) Bromoform	7.024	173	887549	265.2166614 ppb		98
67) Isopropylbenzene	7.158	105	6120021	253.7380267 ppb		99
69) Bromobenzene	7.474	77	2524748	227.8391108 ppb		92
70) 1,1,2,2-TETRACHLOROETHANE	7.517	83	1531224	222.9954278 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.632	110	430194	227.9084954 ppb		92
72) TRANS-1,4-DICHLORO-2-B...	7.650	53	520764	242.0734951 ppb		97
73) n-Propylbenzene	7.462	91	7176075	245.9703824 ppb		98
74) 4-ETHYLTOLUENE	7.541	105	5858083	248.5049279 ppb		96
75) 2-Chlorotoluene	7.602	126	1385672	291.5782723 ppb		81
76) 4-Chlorotoluene	7.723	91	4369373	245.9086745 ppb		99
77) 1,3,5-Trimethylbenzene	7.602	105	4820821	241.8485255 ppb		97
78) tert-Butylbenzene	7.845	119	4347883	251.8231389 ppb		97
79) 1,2,4-Trimethylbenzene	7.900	105	4968552	237.1556232 ppb		95
80) sec-Butylbenzene	7.985	105	6687477	252.2752641 ppb		100
81) 1,3-DICHLOROBENZENE	8.180	146	2795132	253.8231612 ppb		99
82) p-Isopropyltoluene	8.088	119	5551462	251.8848676 ppb		96
83) DICYCLOPENTADIENE	8.095	66	5926612	231.4925205 ppb		96
85) 1,4-DICHLOROBENZENE	8.247	146	2817294	237.9927198 ppb	#	7
86) 1,2,3-TRIMETHYLBENZENE	8.247	105	4890686	224.8329423 ppb		95
87) 1,2-DICHLOROBENZENE	8.581	146	2688755	237.7471135 ppb		98
88) n-Butylbenzene	8.417	91	5135412	228.1555341 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.220	157	375797	256.5432806 ppb		95
90) 1,2,4-Trichlorobenzene	9.774	180	1719797	224.3518327 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.737	225	997886	232.8404798 ppb		98
92) Naphthalene	10.047	128	4841702	225.9308654 ppb		99
93) 1,2,3-Trichlorobenzene	10.206	180	1597777	220.2673111 ppb		98
94) 1-Methylnaphthalene	10.863	142	2344156	218.4174229 ppb		95
95) 2-Methylnaphthalene	10.978	142	1906611	210.8578486 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 18.D
Acq On : 24 Mar 2015 8:21 pm
Operator : 621
Sample : STD VMS 200 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:29 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration

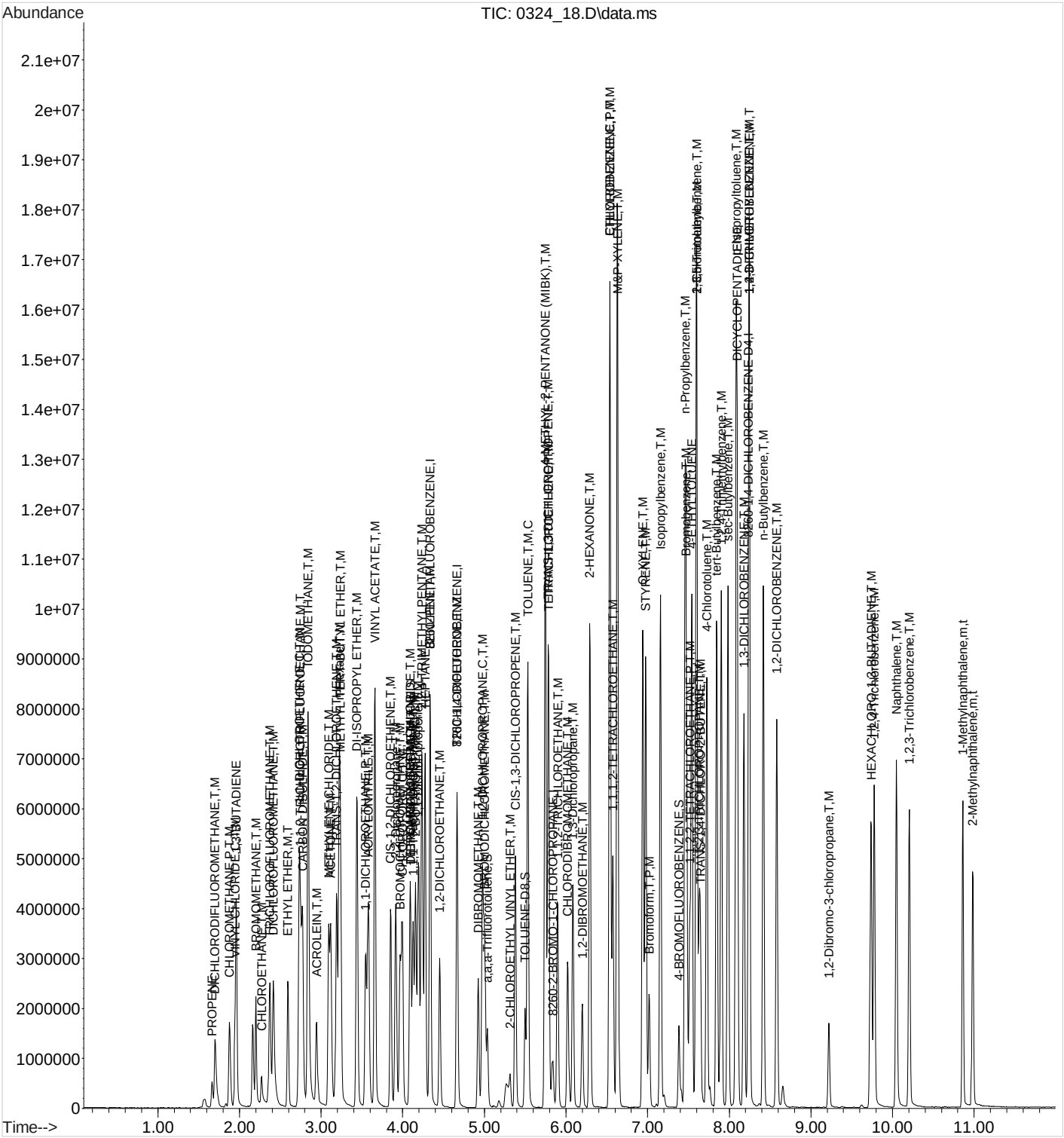
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 18.D
Acq On : 24 Mar 2015 8:21 pm
Operator : 621
Sample : STD VMS 200 ppb 15C23959
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 12:59:29 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 12:53:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 22.D
Acq On : 25 Mar 2015 1:38 am
Operator : 621
Sample : LOD VMS 0.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:41:15 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.335	168	496829	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.669	114	830912	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.838	79	144482	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.234	152	379236	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.335	168	496829	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	830912	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.838	79	144482	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	379236	40.0000000	ppb		0.00
	System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	4.104	111	254100	42.1209947	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 105.30%				
46)	a,a,a-Trifluorotoluene	5.035	146	463999	42.1726940	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 105.43%				
50)	TOLUENE-D8	5.497	98	1006728	42.8565275	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 107.14%				
68)	4-BROMOFLUOROBENZENE	7.383	95	380608	41.1286391	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 102.82%				
	Target Compounds							Qvalue
8)	BROMOMETHANE	2.206	94	1378	0.3429751	ppb	#	1
9)	CHLOROETHANE	2.266	66	695	Below Cal		#	1
13)	ACROLEIN	2.954	56	1110	1.0043093	ppb	#	83
16)	ACETONE	3.118	43	2768	0.7350545	ppb	#	69
17)	IODOMETHANE	2.844	142	3457	0.5284778	ppb	#	88
19)	METHYLENE CHLORIDE	3.100	84	1874	0.3150886	ppb	#	57
20)	ACRYLONITRILE	3.587	53	924	0.3830923	ppb	#	82
25)	VINYL ACETATE	3.666	43	4991	0.4832709	ppb	#	78
31)	TETRAHYDROFURAN	4.085	42	853	0.3872236	ppb	#	7
37)	2,2,4-TRIMETHYLPENTANE	4.238	57	9841	0.3776437	ppb	#	16
43)	1,2-DICHLOROPROPANE	5.035	62	11062	2.5401635	ppb	#	42
49)	4-METHYL-2-PENTANONE (...	5.746	58	1780	0.7021666	ppb	#	66
52)	TRANS-1,3-DICHLOROPROPENE	5.838	110	876	0.4128743	ppb	#	1
57)	2-HEXANONE	6.294	58	1795	0.6519225	ppb	#	32
71)	1,2,3-TRICHLOROPROPANE	7.638	110	568	0.3027452	ppb	#	27
85)	1,4-DICHLOROBENZENE	8.247	146	3737	0.3171085	ppb	#	1
88)	n-Butylbenzene	8.417	91	7568	0.3293670	ppb		90
90)	1,2,4-Trichlorobenzene	9.780	180	4428	0.6115571	ppb	#	72
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	1288	0.3072810	ppb	#	91
92)	Naphthalene	10.053	128	13532	0.6738755	ppb		97
93)	1,2,3-Trichlorobenzene	10.206	180	4321	0.6346236	ppb	#	76
94)	1-Methylnaphthalene	10.863	142	15184	1.5429838	ppb		97
95)	2-Methylnaphthalene	10.984	142	13638	1.6814016	ppb		91
97)	ETHANOL	2.680	45	2302	25.4285306	ppb	#	78
99)	2-PROPANOL	3.009	45	731	Below Cal		#	59
100)	Methyl Acetate	3.179	43	18455	3.4708723	ppb	#	96
101)	ACETONITRILE	3.404	41	5303	6.2920169	ppb	#	72
102)	ALLYL CHLORIDE	3.039	76	3075	0.9865314	ppb		84
103)	tert-BUTYL ALCOHOL	3.270	59	669	0.5957049	ppb	#	1
104)	chloroprene	3.538	53	7966	0.7890091	ppb		88
106)	PROPIONITRILE	4.347	54	8045	9.5664194	ppb	#	1
107)	Ethyl Acetate	4.031	43	10704	1.6708651	ppb	#	86
108)	METHACRYLONITRILE	4.353	67	23006	9.7921688	ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 22.D
Acq On : 25 Mar 2015 1:38 am
Operator : 621
Sample : LOD VMS 0.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:41:15 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

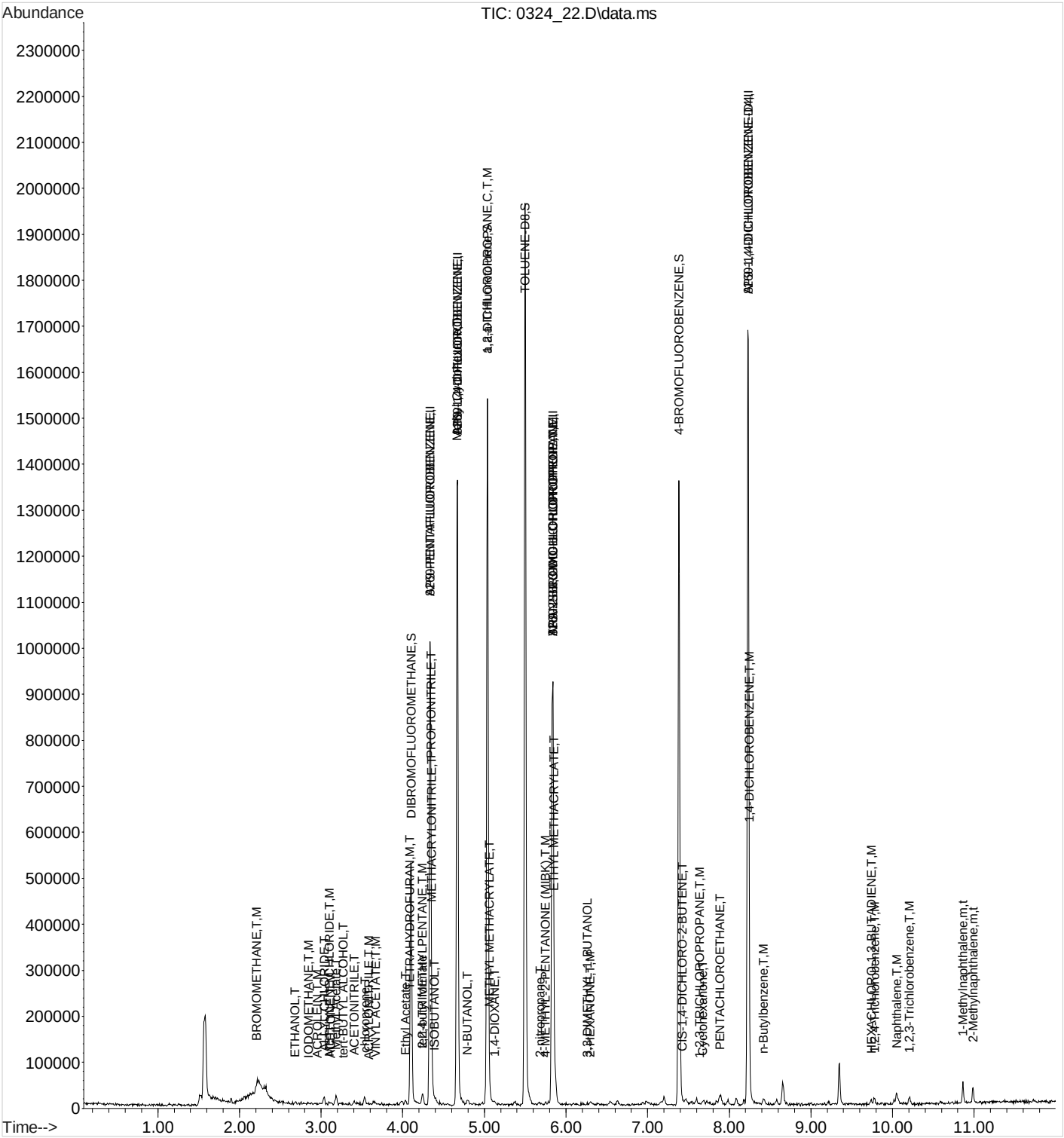
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110)	tert-butyl formate	4.238	59	10589	1.6678392	ppb	#	81
111)	ISOBUTANOL	4.390	43	9283	23.3931715	ppb	#	75
115)	N-BUTANOL	4.791	56	6766	33.7832090	ppb		92
116)	Methyl Cyclohexane	4.663	83	16193	0.3745366	ppb	#	56
117)	2-nitropropane	5.679	43	4406	1.9462438	ppb	#	73
118)	METHYL METHACRYLATE	5.059	41	4952	0.8053468	ppb	#	19
119)	1,4-DIOXANE	5.126	88	2698	39.8352914	ppb	#	38
121)	3,3-DIMETHYL-1-BUTANOL	6.257	57	1927	3.1108030	ppb	#	66
123)	ETHYL METHACRYLATE	5.850	69	6905	0.9395742	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.425	53	1736	0.8377726	ppb	#	27
125)	Cyclohexanone	7.675	55	3238	2.3226448	ppb		95
126)	PENTACHLOROETHANE	7.882	117	3227	0.9531713	ppb	#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 22.D
Acq On : 25 Mar 2015 1:38 am
Operator : 621
Sample : LOD VMS 0.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 14:41:15 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 23.D
Acq On : 25 Mar 2015 1:58 am
Operator : 621
Sample : STD VMS 1a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:16:25 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

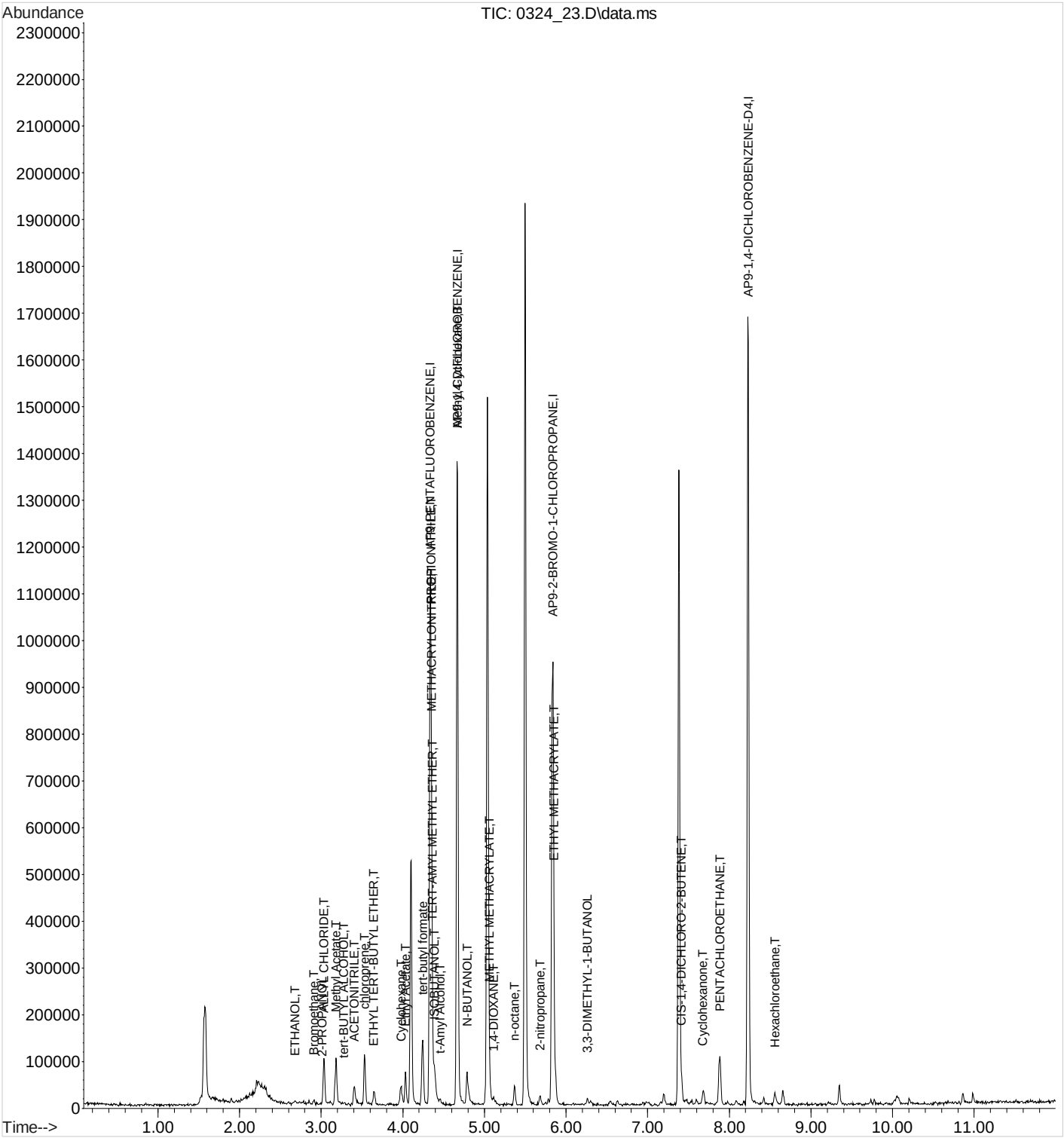
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.23
96) AP9-PENTAFLUOROBENZENE	4.335	168	484985	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	796425	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.838	79	146644	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	372520	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
97) ETHANOL	2.680	45	9907	119.9358717	ppb #	84
98) Bromoethane	2.911	108	4460	1.0638379	ppb	93
99) 2-PROPANOL	3.009	45	5456	12.3221517	ppb #	59
100) Methyl Acetate	3.179	43	101400	21.0860345	ppb #	95
101) ACETONITRILE	3.404	41	40052	50.7629559	ppb #	93
102) ALLYL CHLORIDE	3.033	76	14774	5.0098254	ppb	82
103) tert-BUTYL ALCOHOL	3.276	59	4523	4.1723706	ppb #	55
104) chloroprene	3.532	53	48724	5.2324317	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.641	59	18578	0.9933262	ppb #	86
106) PROPIONITRILE	4.347	54	41611	54.4400333	ppb #	66
107) Ethyl Acetate	4.031	43	62987	10.6973400	ppb	99
108) METHACRYLONITRILE	4.353	67	111501	51.8838490	ppb	90
109) Cyclohexane	3.982	84	10304	1.0784920	ppb	91
110) tert-butyl formate	4.244	59	61177	10.5017194	ppb	90
111) ISOBUTANOL	4.390	43	42635	118.1815595	ppb #	93
112) t-Amyl Alcohol	4.457	59	3344	6.6741772	ppb	86
113) TERT-AMYL METHYL ETHER	4.365	73	16701	1.0660908	ppb #	51
115) N-BUTANOL	4.791	56	38263	210.4606788	ppb	99
116) Methyl Cyclohexane	4.669	83	21941	1.9357227	ppb #	84
117) 2-nitropropane	5.679	43	11599	5.8851510	ppb #	77
118) METHYL METHACRYLATE	5.059	41	28749	5.1768444	ppb #	30
119) 1,4-DIOXANE	5.114	88	6652	109.8450216	ppb #	58
120) n-octane	5.369	85	5748	1.0356121	ppb #	82
121) 3,3-DIMETHYL-1-BUTANOL	6.257	57	6319	11.2915501	ppb	91
123) ETHYL METHACRYLATE	5.850	69	35915	4.8326959	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.413	53	9304	4.5333191	ppb #	32
125) Cyclohexanone	7.675	55	12414	11.3997130	ppb	96
126) PENTACHLOROETHANE	7.882	117	15836	4.6163803	ppb	98
127) Hexachloroethane	8.557	117	4152	0.9923625	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 23.D
Acq On : 25 Mar 2015 1:58 am
Operator : 621
Sample : STD VMS 1a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:16:25 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 24.D
Acq On : 25 Mar 2015 2:17 am
Operator : 621
Sample : STD VMS 2.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:03 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

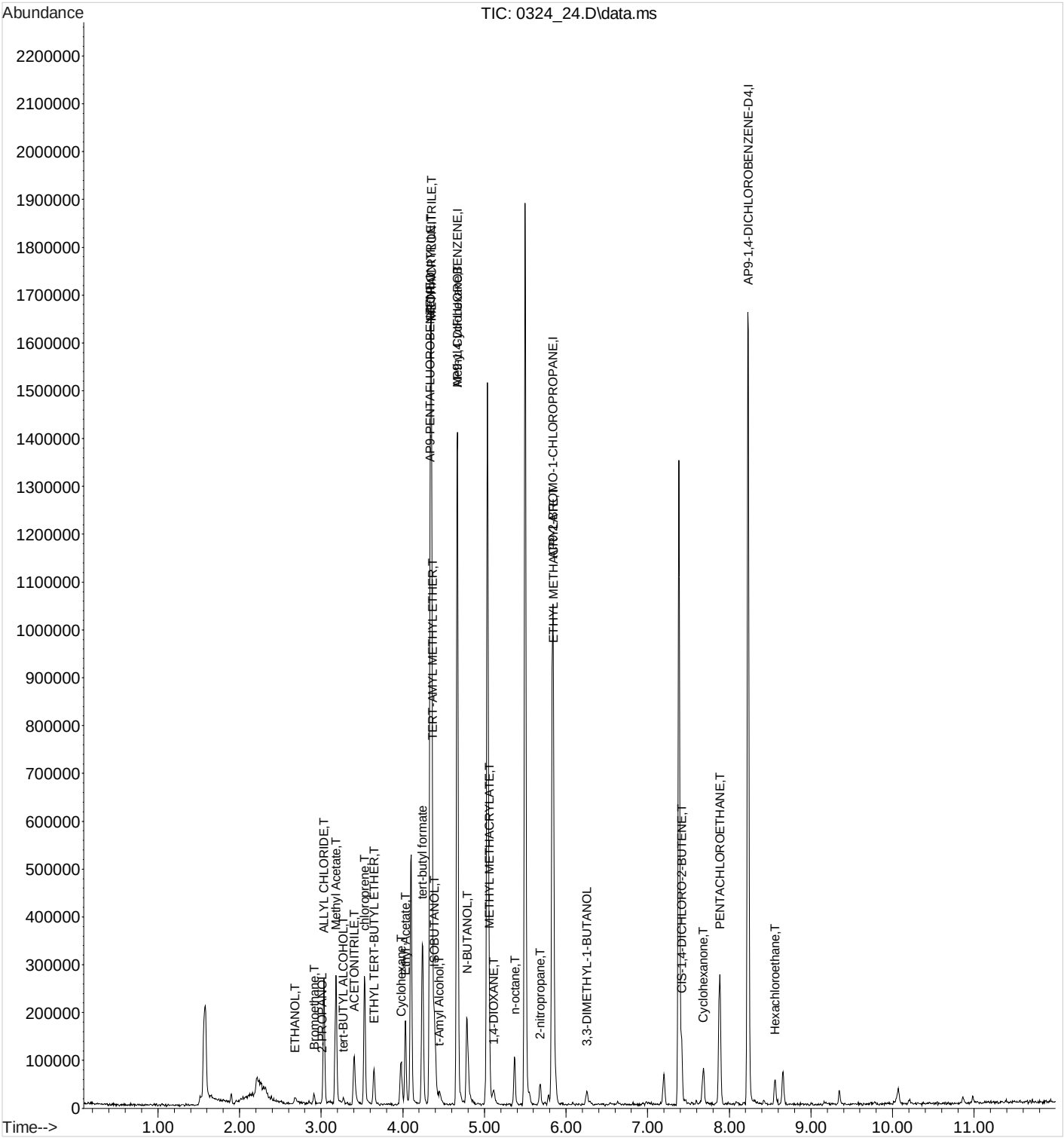
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	471012	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	794479	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	140056	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	367536	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
97)	ETHANOL	2.680	45	21074	262.6940544	ppb	#	100
98)	Bromoethane	2.917	108	10722	2.6333752	ppb		87
99)	2-PROPANOL	3.009	45	8212	19.0966622	ppb	#	75
100)	Methyl Acetate	3.179	43	267086	57.1879353	ppb	#	99
101)	ACETONITRILE	3.404	41	105630	137.8498539	ppb		96
102)	ALLYL CHLORIDE	3.033	76	40282	14.0647447	ppb		99
103)	tert-BUTYL ALCOHOL	3.270	59	12879	12.2330505	ppb	#	65
104)	chloroprene	3.532	53	129205	14.2868437	ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.647	59	50492	2.7797890	ppb		98
106)	PROPIONITRILE	4.341	54	106028	142.8325314	ppb	#	91
107)	Ethyl Acetate	4.031	43	157707	27.5785979	ppb		99
108)	METHACRYLONITRILE	4.353	67	298986	143.2519731	ppb		92
109)	Cyclohexane	3.982	84	25874	2.7885022	ppb		94
110)	tert-butyl formate	4.237	59	159436	28.1809065	ppb		99
111)	ISOBUTANOL	4.390	43	95779	273.3695151	ppb	#	99
112)	t-Amyl Alcohol	4.444	59	8765	18.0127375	ppb		88
113)	TERT-AMYL METHYL ETHER	4.365	73	40567	2.6663733	ppb	#	96
115)	N-BUTANOL	4.791	56	94561	521.3945261	ppb		93
116)	Methyl Cyclohexane	4.669	83	39595	3.5017855	ppb		89
117)	2-nitropropane	5.679	43	26520	13.4887916	ppb		91
118)	METHYL METHACRYLATE	5.059	41	77613	14.0100377	ppb	#	47
119)	1,4-DIOXANE	5.114	88	17436	288.6273357	ppb		92
120)	n-octane	5.375	85	16498	2.9797107	ppb		93
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	14648	26.2389229	ppb		90
123)	ETHYL METHACRYLATE	5.844	69	92054	12.9693689	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	25802	13.1632321	ppb	#	33
125)	Cyclohexanone	7.681	55	30628	29.4485147	ppb		98
126)	PENTACHLOROETHANE	7.882	117	43597	13.3068503	ppb		98
127)	Hexachloroethane	8.557	117	9636	2.4114173	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 24.D
Acq On : 25 Mar 2015 2:17 am
Operator : 621
Sample : STD VMS 2.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:03 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 25.D
Acq On : 25 Mar 2015 2:36 am
Operator : 621
Sample : STD VMS 5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:28 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

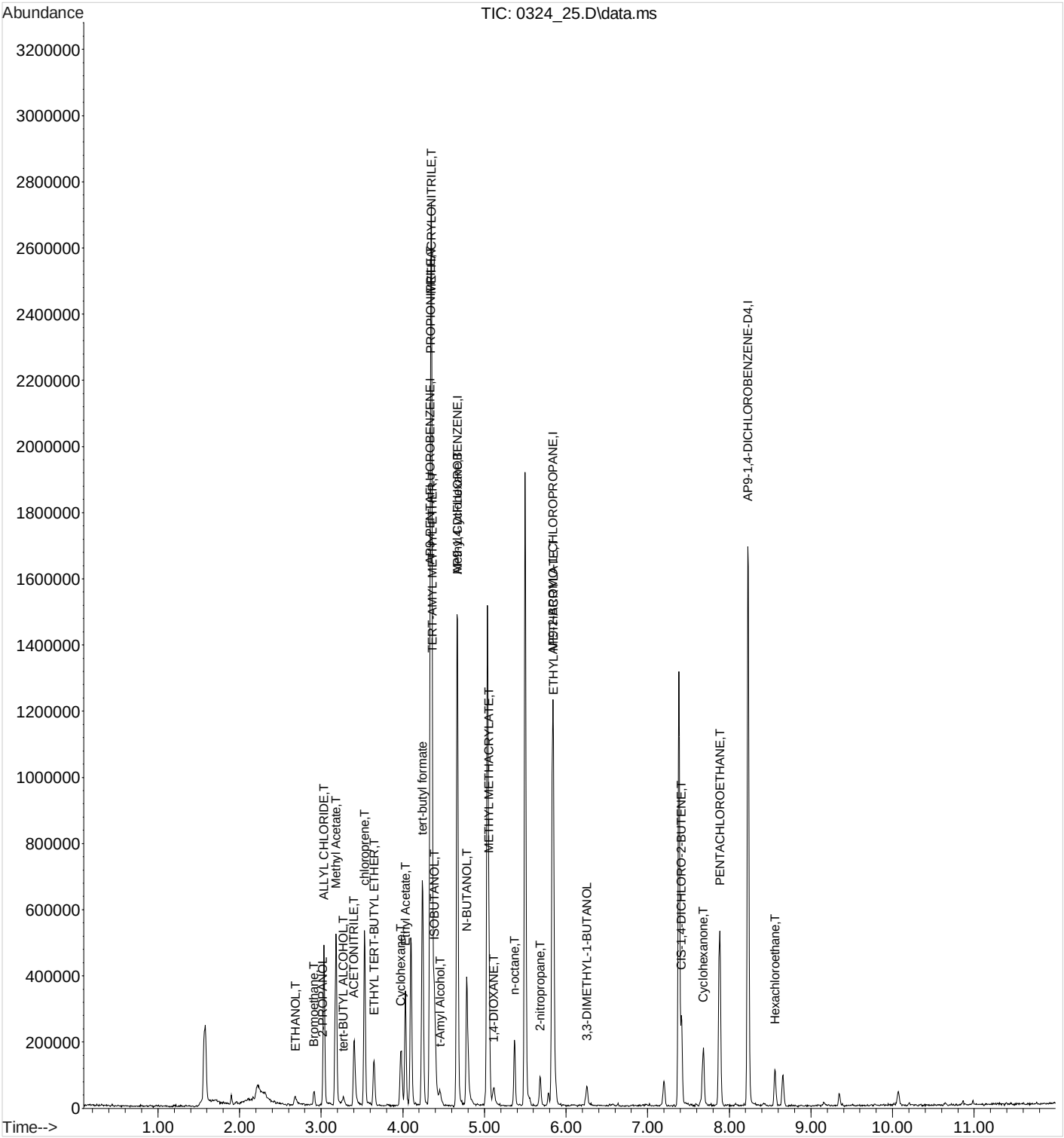
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	472260	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	801259	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.838	79	146544	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.228	152	368993	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
97)	ETHANOL	2.686	45	42825	532.4164292	ppb		96
98)	Bromoethane	2.911	108	23427	5.7385798	ppb		99
99)	2-PROPANOL	3.015	45	13662	31.6864521	ppb	#	60
100)	Methyl Acetate	3.179	43	509269	108.7555284	ppb	#	99
101)	ACETONITRILE	3.398	41	197294	256.7933172	ppb		95
102)	ALLYL CHLORIDE	3.033	76	72566	25.2699755	ppb		89
103)	tert-BUTYL ALCOHOL	3.270	59	25051	23.7316810	ppb	#	92
104)	chloroprene	3.532	53	237027	26.1400011	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.647	59	97041	5.3283818	ppb		99
106)	PROPIONITRILE	4.341	54	201411	270.6079545	ppb	#	93
107)	Ethyl Acetate	4.031	43	298800	52.1137847	ppb		99
108)	METHACRYLONITRILE	4.353	67	557945	266.6195300	ppb		92
109)	Cyclohexane	3.976	84	47323	5.0866341	ppb		88
110)	tert-butyl formate	4.238	59	304914	53.7522619	ppb		96
111)	ISOBUTANOL	4.390	43	188626	536.9479001	ppb	#	93
112)	t-Amyl Alcohol	4.457	59	13043	26.7335174	ppb		91
113)	TERT-AMYL METHYL ETHER	4.365	73	80203	5.2576235	ppb	#	86
115)	N-BUTANOL	4.785	56	189565	1036.3872651	ppb		98
116)	Methyl Cyclohexane	4.669	83	65466	5.7408275	ppb		96
117)	2-nitropropane	5.679	43	55406	27.9425363	ppb		98
118)	METHYL METHACRYLATE	5.053	41	145820	26.0994543	ppb	#	78
119)	1,4-DIOXANE	5.114	88	33747	553.9049844	ppb		97
120)	n-octane	5.369	85	29946	5.3627941	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	27491	48.8278624	ppb		90
123)	ETHYL METHACRYLATE	5.844	69	180442	24.2967110	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	50690	24.7152573	ppb	#	33
125)	Cyclohexanone	7.681	55	65030	59.7574681	ppb		97
126)	PENTACHLOROETHANE	7.882	117	85361	24.9007161	ppb		98
127)	Hexachloroethane	8.557	117	20172	4.8245656	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 25.D
Acq On : 25 Mar 2015 2:36 am
Operator : 621
Sample : STD VMS 5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:28 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 26.D
Acq On : 25 Mar 2015 2:56 am
Operator : 621
Sample : STD VMS 7.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:53 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

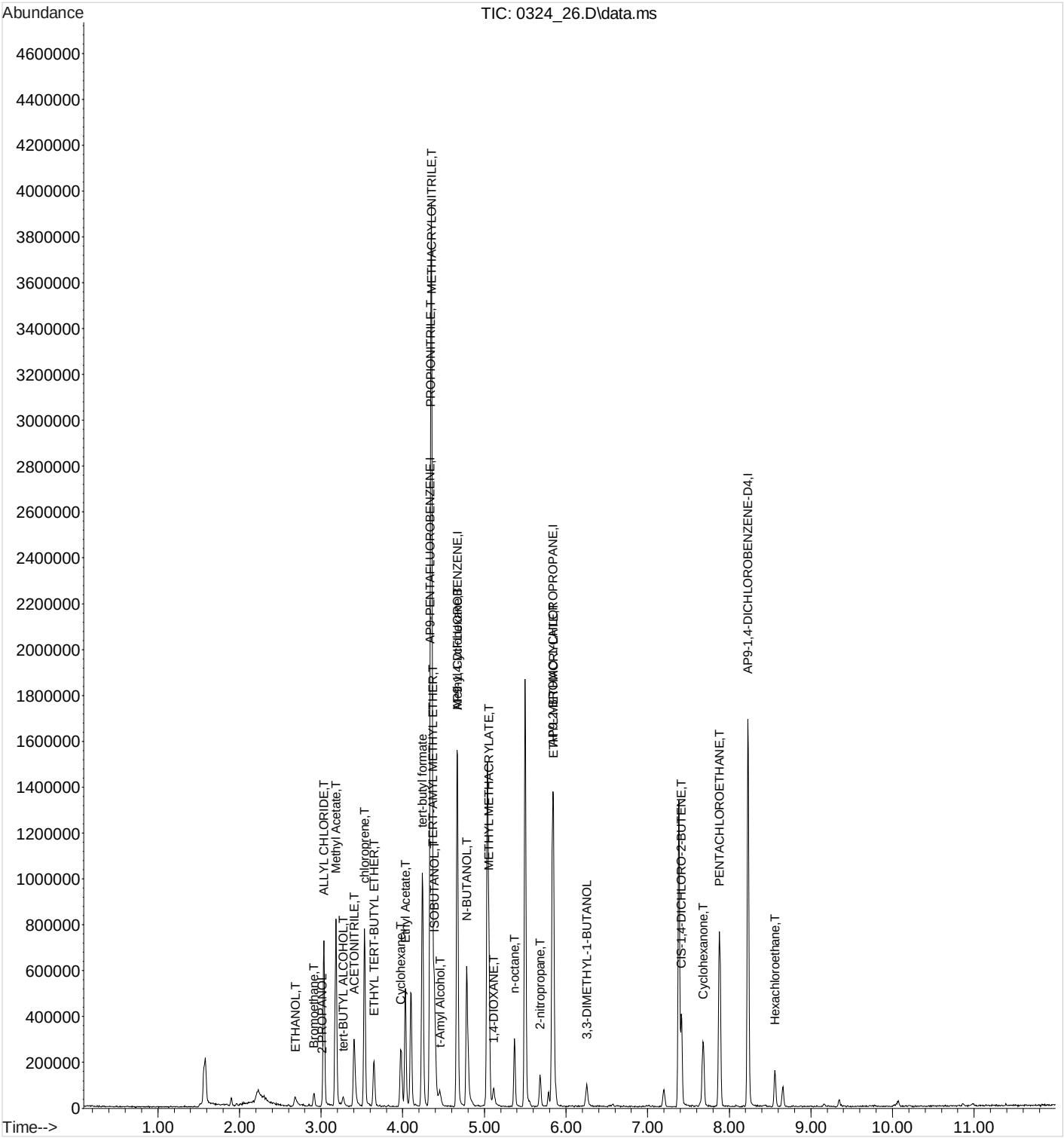
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	467363	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.670	114	797431	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.838	79	135984	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.228	152	362605	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
97)	ETHANOL	2.686	45	63935	803.1923838	ppb	#	93
98)	Bromoethane	2.911	108	30477	7.5437415	ppb		92
99)	2-PROPANOL	3.009	45	20204	47.3503865	ppb		94
100)	Methyl Acetate	3.179	43	772291	166.6525300	ppb	#	100
101)	ACETONITRILE	3.404	41	298431	392.5008567	ppb		97
102)	ALLYL CHLORIDE	3.033	76	111804	39.3419437	ppb		94
103)	tert-BUTYL ALCOHOL	3.270	59	41722	39.9388347	ppb		96
104)	chloroprene	3.532	53	363394	40.4960225	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.648	59	139357	7.7320686	ppb		98
106)	PROPIONITRILE	4.341	54	301448	409.2574699	ppb		94
107)	Ethyl Acetate	4.031	43	456828	80.5103235	ppb		99
108)	METHACRYLONITRILE	4.353	67	850898	410.8704491	ppb		94
109)	Cyclohexane	3.976	84	73523	7.9856135	ppb		93
110)	tert-butyl formate	4.238	59	456334	81.2884873	ppb		99
111)	ISOBUTANOL	4.390	43	284480	818.2936251	ppb	#	99
112)	t-Amyl Alcohol	4.457	59	23376	48.4145215	ppb		97
113)	TERT-AMYL METHYL ETHER	4.371	73	117533	7.7854824	ppb	#	89
115)	N-BUTANOL	4.785	56	296618	1629.4506836	ppb		98
116)	Methyl Cyclohexane	4.670	83	93179	8.2102530	ppb		94
117)	2-nitropropane	5.679	43	81468	41.2834408	ppb		99
118)	METHYL METHACRYLATE	5.053	41	226723	40.7746009	ppb		86
119)	1,4-DIOXANE	5.114	88	49010	808.2851690	ppb		96
120)	n-octane	5.369	85	43063	7.7488346	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	47058	83.9828184	ppb		97
123)	ETHYL METHACRYLATE	5.844	69	267621	38.8338345	ppb	#	38
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	79266	41.6495216	ppb	#	85
125)	Cyclohexanone	7.681	55	109511	108.4467169	ppb		100
126)	PENTACHLOROETHANE	7.882	117	126743	39.8434150	ppb		98
127)	Hexachloroethane	8.557	117	28493	7.3439154	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 26.D
Acq On : 25 Mar 2015 2:56 am
Operator : 621
Sample : STD VMS 7.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:17:53 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 27.D
Acq On : 25 Mar 2015 3:15 am
Operator : 621
Sample : MSTD VMS 10a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:14 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

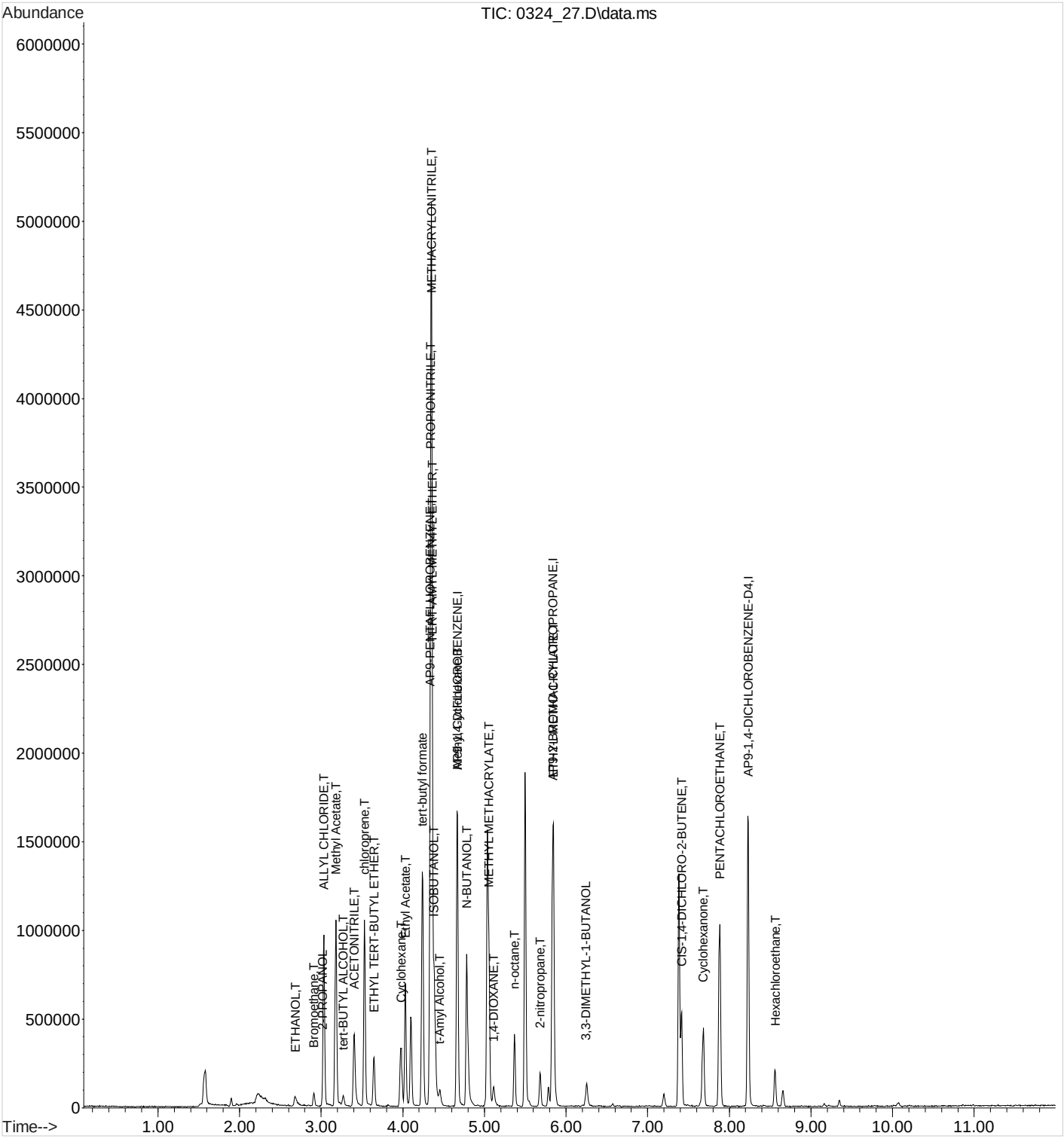
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	465847	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	784665	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	138751	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	365929	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
97)	ETHANOL	2.686	45	84903	1070.0768596	ppb	#	97
98)	Bromoethane	2.911	108	44613	11.0786549	ppb		94
99)	2-PROPANOL	3.015	45	26233	61.6801118	ppb	#	80
100)	Methyl Acetate	3.179	43	1020825	221.0005015	ppb	#	100
101)	ACETONITRILE	3.404	41	409790	540.7157942	ppb		98
102)	ALLYL CHLORIDE	3.033	76	152547	53.8534049	ppb		99
103)	tert-BUTYL ALCOHOL	3.270	59	59133	56.7899135	ppb		98
104)	chloroprene	3.532	53	486034	54.3390814	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.647	59	193133	10.7506425	ppb		98
106)	PROPIONITRILE	4.341	54	399216	543.7548848	ppb		96
107)	Ethyl Acetate	4.030	43	614057	108.5721823	ppb		99
108)	METHACRYLONITRILE	4.353	67	1119812	542.4797676	ppb		96
109)	Cyclohexane	3.982	84	92344	10.0624741	ppb		92
110)	tert-butyl formate	4.237	59	607163	108.5081943	ppb		99
111)	ISOBUTANOL	4.383	43	377913	1090.5869197	ppb	#	98
112)	t-Amyl Alcohol	4.450	59	31687	65.8411781	ppb		91
113)	TERT-AMYL METHYL ETHER	4.365	73	157884	10.4924003	ppb	#	95
115)	N-BUTANOL	4.785	56	401927	2243.8805468	ppb		98
116)	Methyl Cyclohexane	4.669	83	118844	10.6420327	ppb		100
117)	2-nitropropane	5.679	43	111293	57.3146328	ppb		98
118)	METHYL METHACRYLATE	5.053	41	301851	55.1690609	ppb		95
119)	1,4-DIOXANE	5.113	88	64155	1075.2742616	ppb		92
120)	n-octane	5.369	85	63140	11.5463713	ppb		90
121)	3,3-DIMETHYL-1-BUTANOL	6.245	57	61448	111.4483300	ppb		100
123)	ETHYL METHACRYLATE	5.843	69	359685	51.1521748	ppb	#	64
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	103495	53.2959409	ppb		99
125)	Cyclohexanone	7.681	55	158443	153.7741769	ppb		98
126)	PENTACHLOROETHANE	7.881	117	164356	50.6372166	ppb		98
127)	Hexachloroethane	8.563	117	38610	9.7530619	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 27.D
Acq On : 25 Mar 2015 3:15 am
Operator : 621
Sample : MSTD VMS 10a ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:14 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 28.D
Acq On : 25 Mar 2015 3:34 am
Operator : 621
Sample : STD VMS 12.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

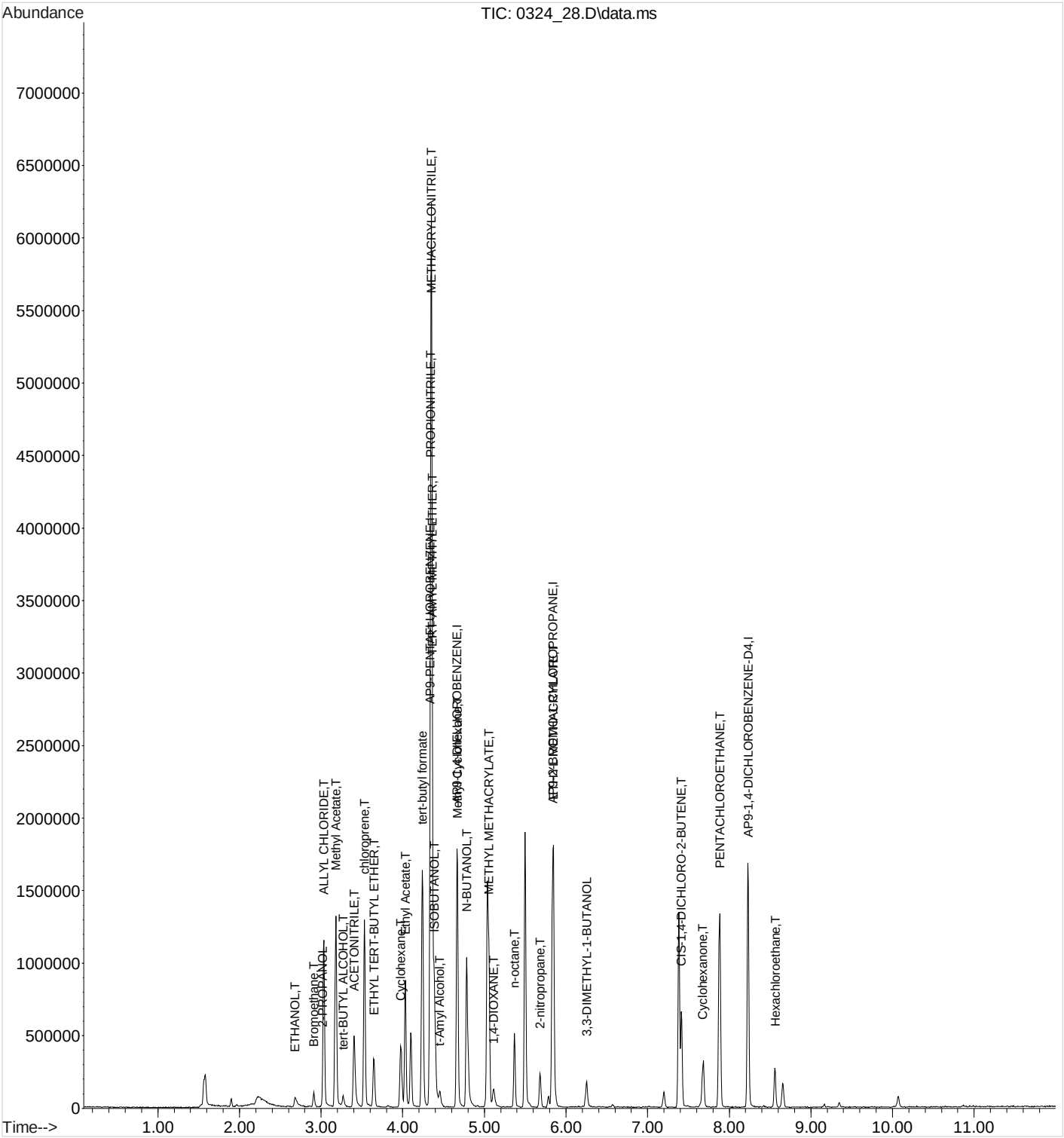
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	464546	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.663	114	796807	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.838	79	144388	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.235	152	377693	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
97)	ETHANOL	2.680	45	108117	1366.4712574	ppb	#	100
98)	Bromoethane	2.911	108	51887	12.9210779	ppb		94
99)	2-PROPANOL	3.015	45	31777	74.9246400	ppb	#	87
100)	Methyl Acetate	3.179	43	1272359	276.2270505	ppb	#	100
101)	ACETONITRILE	3.404	41	503283	665.9391360	ppb		98
102)	ALLYL CHLORIDE	3.033	76	181007	64.0795487	ppb		95
103)	tert-BUTYL ALCOHOL	3.270	59	72007	69.3474650	ppb		98
104)	chloroprene	3.532	53	596747	66.9037504	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.647	59	232562	12.9816909	ppb		100
106)	PROPIONITRILE	4.341	54	505240	690.0928650	ppb		99
107)	Ethyl Acetate	4.031	43	771996	136.8798464	ppb		98
108)	METHACRYLONITRILE	4.353	67	1400346	680.2810314	ppb		96
109)	Cyclohexane	3.976	84	119793	13.0900743	ppb		97
110)	tert-butyl formate	4.238	59	751882	134.7477445	ppb		98
111)	ISOBUTANOL	4.390	43	470456	1361.4510860	ppb	#	97
112)	t-Amyl Alcohol	4.451	59	35565	74.1060834	ppb		94
113)	TERT-AMYL METHYL ETHER	4.365	73	196127	13.0703944	ppb	#	96
115)	N-BUTANOL	4.785	56	491099	2699.9314787	ppb		97
116)	Methyl Cyclohexane	4.670	83	146057	12.8795546	ppb		97
117)	2-nitropropane	5.679	43	137612	69.7887006	ppb		99
118)	METHYL METHACRYLATE	5.053	41	374413	67.3883826	ppb		97
119)	1,4-DIOXANE	5.114	88	82401	1360.0421368	ppb		99
120)	n-octane	5.369	85	71986	12.9634359	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	77128	137.7555242	ppb		98
123)	ETHYL METHACRYLATE	5.844	69	457321	62.4982622	ppb	#	80
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	127643	63.1650419	ppb		99
125)	Cyclohexanone	7.675	55	118091	110.1367294	ppb		95
126)	PENTACHLOROETHANE	7.882	117	206093	61.0172351	ppb		97
127)	Hexachloroethane	8.563	117	47870	11.6200936	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 28.D
Acq On : 25 Mar 2015 3:34 am
Operator : 621
Sample : STD VMS 12.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:36 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 29.D
Acq On : 25 Mar 2015 3:53 am
Operator : 621
Sample : STD VMS 15 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:57 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

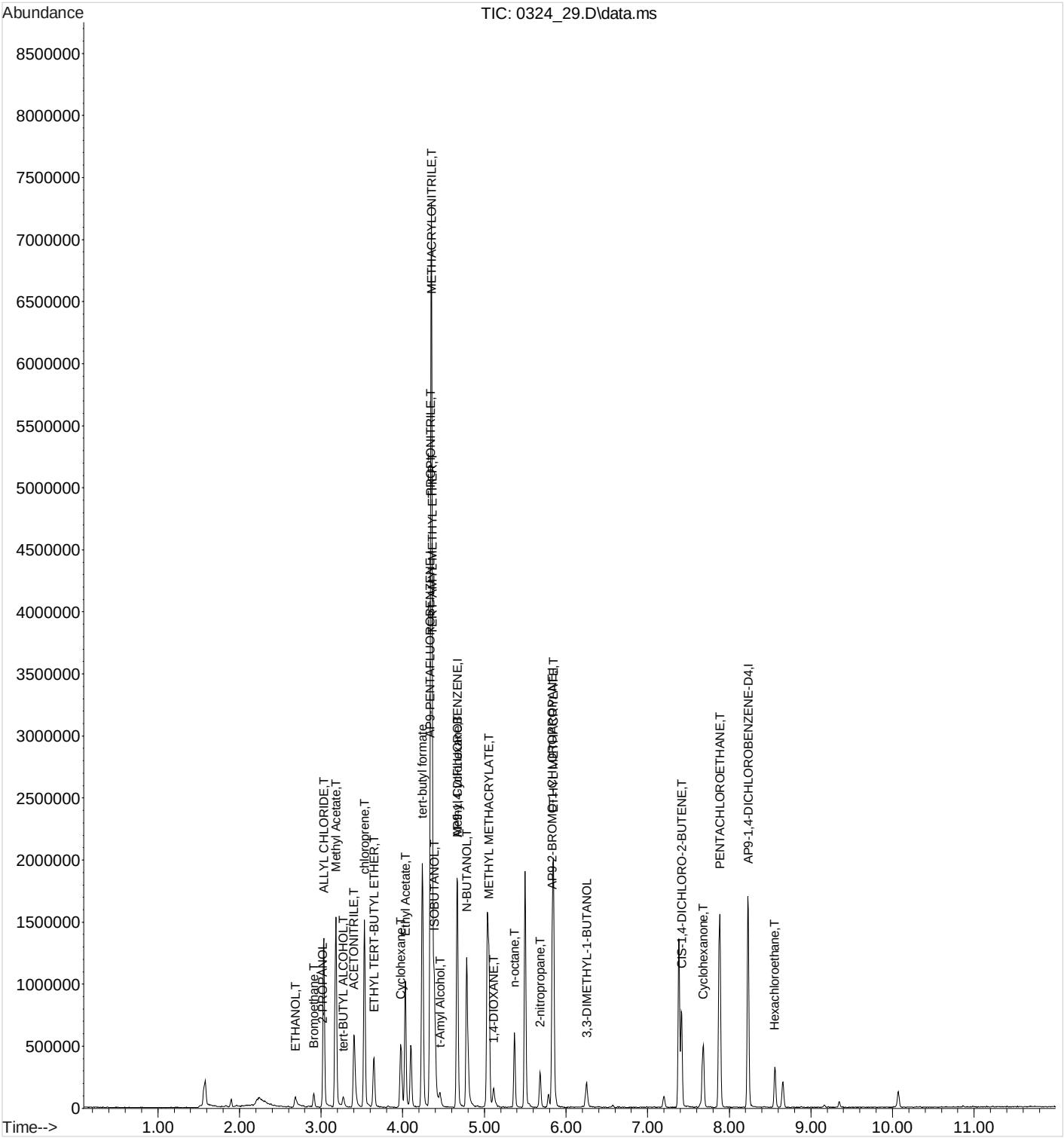
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	472041	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	793938	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.831	79	140370	40.0000000	ppb		0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	376826	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
97)	ETHANOL	2.686	45	127597	1587.0696309	ppb	#	100
98)	Bromoethane	2.911	108	63160	15.4785868	ppb		98
99)	2-PROPANOL	3.015	45	36379	84.4134268	ppb		93
100)	Methyl Acetate	3.179	43	1492124	318.7942349	ppb	#	99
101)	ACETONITRILE	3.398	41	600750	782.2851028	ppb		98
102)	ALLYL CHLORIDE	3.033	76	211869	73.8142980	ppb		93
103)	tert-BUTYL ALCOHOL	3.270	59	79514	75.3613166	ppb	#	81
104)	chloroprene	3.532	53	696680	76.8674662	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.647	59	283584	15.5784139	ppb		100
106)	PROPIONITRILE	4.341	54	581957	782.2574543	ppb		99
107)	Ethyl Acetate	4.031	43	902136	157.4147688	ppb		99
108)	METHACRYLONITRILE	4.353	67	1653874	790.6866921	ppb		99
109)	Cyclohexane	3.976	84	143074	15.3858110	ppb		98
110)	tert-butyl formate	4.238	59	887663	156.5557191	ppb		99
111)	ISOBUTANOL	4.390	43	540412	1539.0651995	ppb	#	98
112)	t-Amyl Alcohol	4.457	59	41127	84.3348510	ppb		91
113)	TERT-AMYL METHYL ETHER	4.365	73	234971	15.4104235	ppb	#	98
115)	N-BUTANOL	4.785	56	575183	3173.6299502	ppb		99
116)	Methyl Cyclohexane	4.669	83	171322	15.1620581	ppb		99
117)	2-nitropropane	5.679	43	162945	82.9347226	ppb		96
118)	METHYL METHACRYLATE	5.053	41	437321	78.9952536	ppb		98
119)	1,4-DIOXANE	5.114	88	95782	1586.6105387	ppb		98
120)	n-octane	5.369	85	88444	15.9847927	ppb		94
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	86128	154.3859832	ppb		94
123)	ETHYL METHACRYLATE	5.844	69	548029	77.0383794	ppb		89
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	155472	79.1386745	ppb		97
125)	Cyclohexanone	7.681	55	184108	176.6220155	ppb		97
126)	PENTACHLOROETHANE	7.882	117	247598	75.4037972	ppb		98
127)	Hexachloroethane	8.551	117	60860	15.1961982	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 29.D
Acq On : 25 Mar 2015 3:53 am
Operator : 621
Sample : STD VMS 15 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:18:57 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 30.D
Acq On : 25 Mar 2015 4:13 am
Operator : 621
Sample : STD VMS 17.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:19:19 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

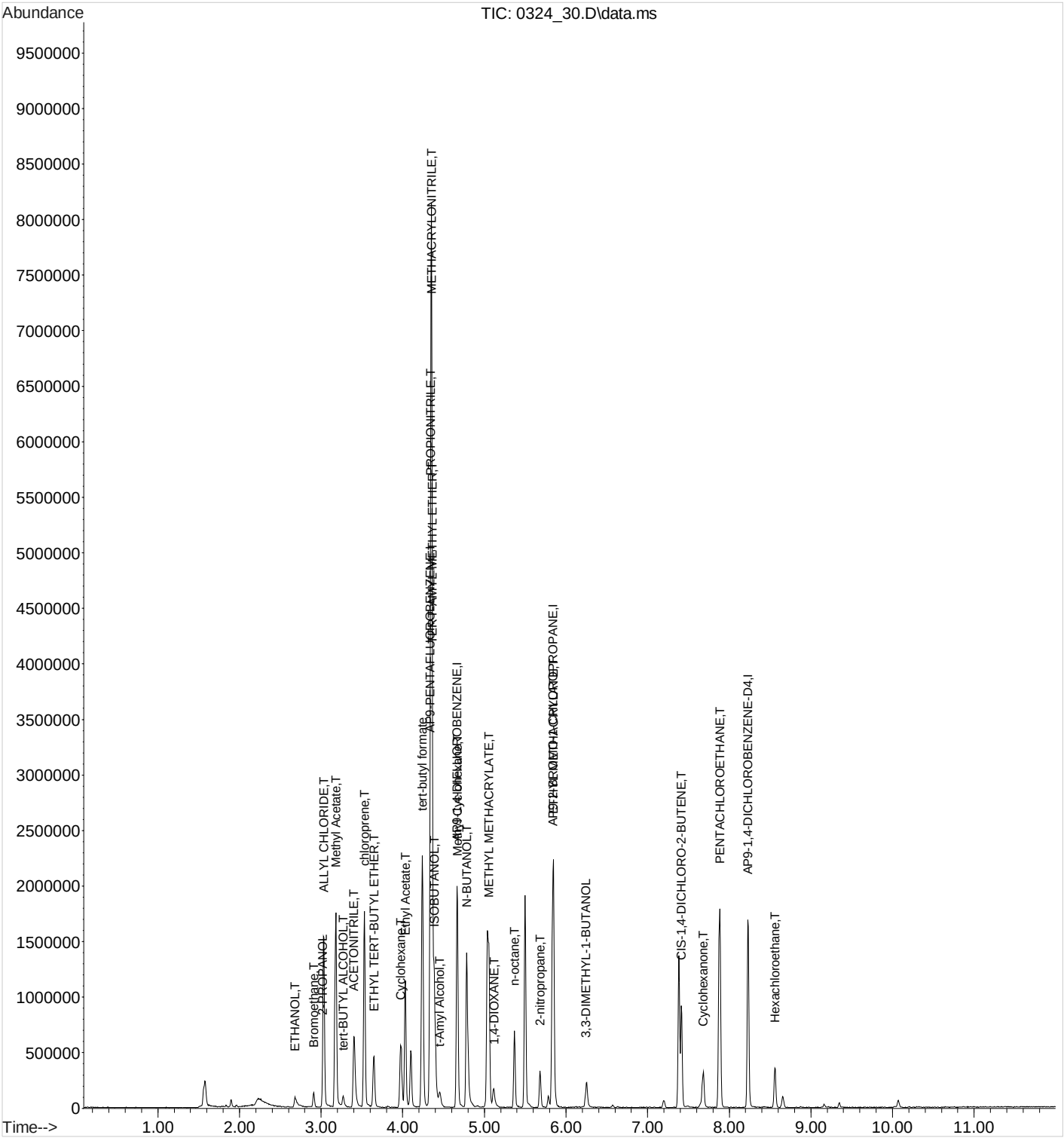
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	469976	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.663	114	793712	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.838	79	144247	40.0000000	ppb	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.228	152	371731	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
97)	ETHANOL	2.680	45	143054	1787.1440712	ppb #	97
98)	Bromoethane	2.911	108	71506	17.6009339	ppb	97
99)	2-PROPANOL	3.015	45	38161	88.9374273	ppb	97
100)	Methyl Acetate	3.179	43	1704034	365.6687440	ppb #	99
101)	ACETONITRILE	3.398	41	670866	877.4272210	ppb	98
102)	ALLYL CHLORIDE	3.033	76	253122	88.5741537	ppb	98
103)	tert-BUTYL ALCOHOL	3.270	59	94119	89.5955049	ppb #	96
104)	chloroprene	3.532	53	811940	89.9781793	ppb	100
105)	ETHYL TERT-BUTYL ETHER	3.647	59	324306	17.8937160	ppb	98
106)	PROPIONITRILE	4.341	54	665068	897.9019342	ppb	99
107)	Ethyl Acetate	4.031	43	1038235	181.9588438	ppb	100
108)	METHACRYLONITRILE	4.353	67	1878936	902.2316087	ppb	98
109)	Cyclohexane	3.976	84	164260	17.7417124	ppb	97
110)	tert-butyl formate	4.238	59	1019404	180.5806425	ppb	99
111)	ISOBUTANOL	4.390	43	622637	1781.0290376	ppb #	100
112)	t-Amyl Alcohol	4.451	59	50334	103.6681949	ppb	100
113)	TERT-AMYL METHYL ETHER	4.365	73	271904	17.9110047	ppb #	96
115)	N-BUTANOL	4.785	56	650206	3588.5984045	ppb	97
116)	Methyl Cyclohexane	4.670	83	203626	18.0261049	ppb	98
117)	2-nitropropane	5.679	43	183238	93.2898818	ppb	98
118)	METHYL METHACRYLATE	5.053	41	498397	90.0533197	ppb	100
119)	1,4-DIOXANE	5.120	88	104391	1729.7093535	ppb	93
120)	n-octane	5.369	85	100320	18.1363463	ppb	98
121)	3,3-DIMETHYL-1-BUTANOL	6.245	57	100328	179.8909449	ppb	95
123)	ETHYL METHACRYLATE	5.844	69	621368	85.0002086	ppb	94
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	182313	90.3070663	ppb	95
125)	Cyclohexanone	7.681	55	119048	111.1377986	ppb	98
126)	PENTACHLOROETHANE	7.882	117	287721	85.2678192	ppb	98
127)	Hexachloroethane	8.557	117	68256	16.5848423	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 30.D
Acq On : 25 Mar 2015 4:13 am
Operator : 621
Sample : STD VMS 17.5 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:19:19 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 31.D
Acq On : 25 Mar 2015 4:32 am
Operator : 621
Sample : STD VMS 20 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:19:40 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration

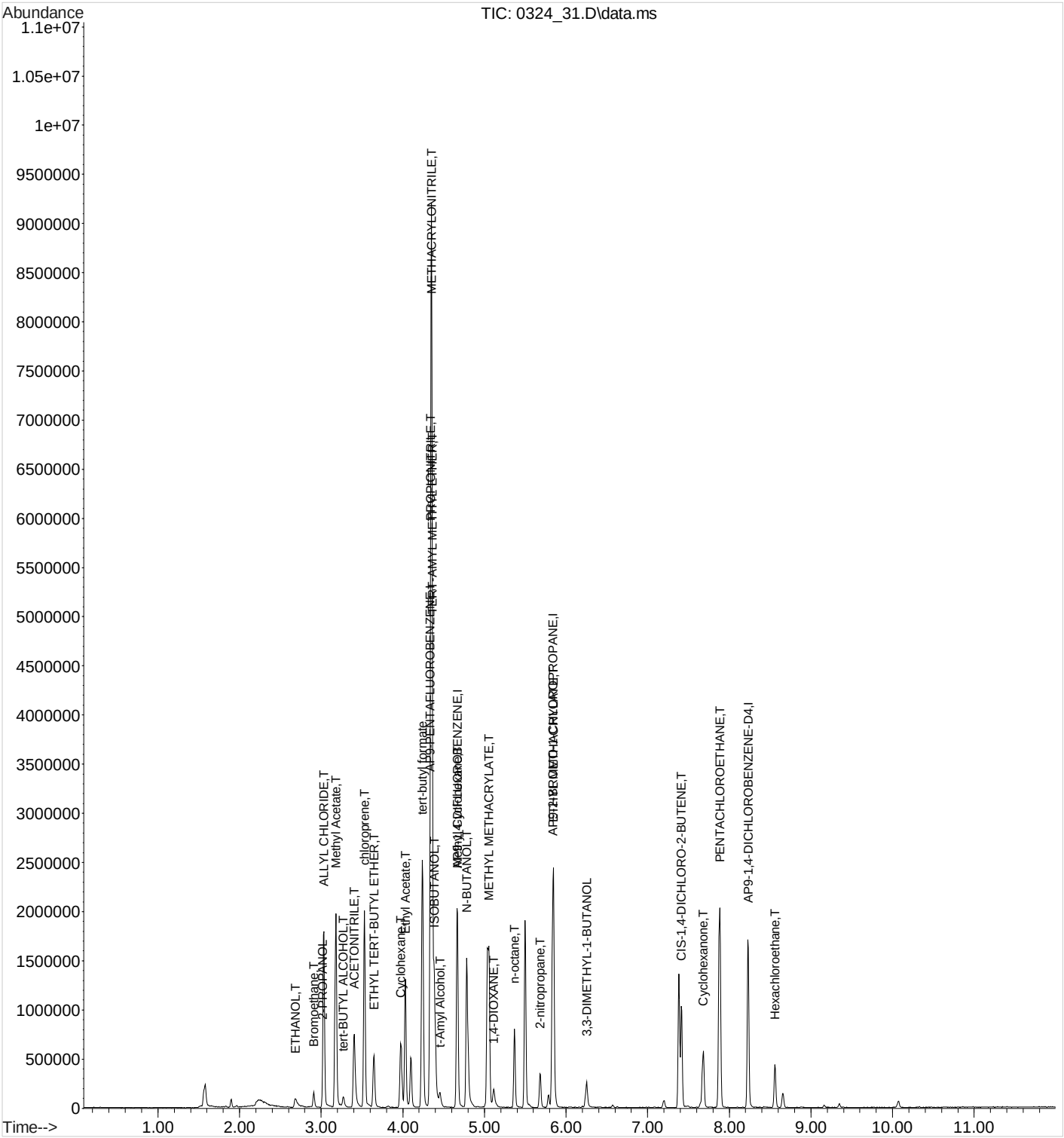
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.23
96)	AP9-PENTAFLUOROBENZENE	4.335	168	481524	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	803730	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	142487	40.0000000	ppb		0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.234	152	378396	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
97)	ETHANOL	2.686	45	164026	2000.0000000	ppb		100
98)	Bromoethane	2.911	108	83249	20.0000000	ppb		100
99)	2-PROPANOL	3.015	45	43962	100.0000000	ppb		100
100)	Methyl Acetate	3.179	43	1909821	400.0000000	ppb	#	100
101)	ACETONITRILE	3.404	41	783370	1000.0000000	ppb		100
102)	ALLYL CHLORIDE	3.033	76	292796	100.0000000	ppb		100
103)	tert-BUTYL ALCOHOL	3.270	59	107630	100.0000000	ppb		100
104)	chloroprene	3.532	53	924547	100.0000000	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.647	59	371387	20.0000000	ppb		100
106)	PROPIONITRILE	4.341	54	758891	1000.0000000	ppb		100
107)	Ethyl Acetate	4.031	43	1169216	200.0000000	ppb		100
108)	METHACRYLONITRILE	4.353	67	2133714	1000.0000000	ppb		100
109)	Cyclohexane	3.976	84	189718	20.0000000	ppb		100
110)	tert-butyl formate	4.237	59	1156771	200.0000000	ppb		100
111)	ISOBUTANOL	4.389	43	716368	2000.0000000	ppb	#	100
112)	t-Amyl Alcohol	4.456	59	49746	100.0000000	ppb		100
113)	TERT-AMYL METHYL ETHER	4.365	73	311077	20.0000000	ppb	#	100
115)	N-BUTANOL	4.785	56	733894	4000.0000000	ppb		100
116)	Methyl Cyclohexane	4.669	83	228775	20.0000000	ppb		100
117)	2-nitropropane	5.679	43	198717	99.9095009	ppb		100
118)	METHYL METHACRYLATE	5.053	41	560432	100.0000000	ppb		100
119)	1,4-DIOXANE	5.113	88	122227	2000.0000000	ppb		100
120)	n-octane	5.369	85	112025	20.0000000	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	112951	200.0000000	ppb		100
123)	ETHYL METHACRYLATE	5.843	69	722100	100.0000000	ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	199418	100.0000000	ppb		100
125)	Cyclohexanone	7.681	55	211621	200.0000000	ppb		100
126)	PENTACHLOROETHANE	7.881	117	333315	100.0000000	ppb		100
127)	Hexachloroethane	8.557	117	81307	20.0000000	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 31.D
Acq On : 25 Mar 2015 4:32 am
Operator : 621
Sample : STD VMS 20 ppb 15C22898
Misc : water IS/SURR15A20860
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:19:40 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:13:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 01.D
Acq On : 24 Mar 2015 10:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:20 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

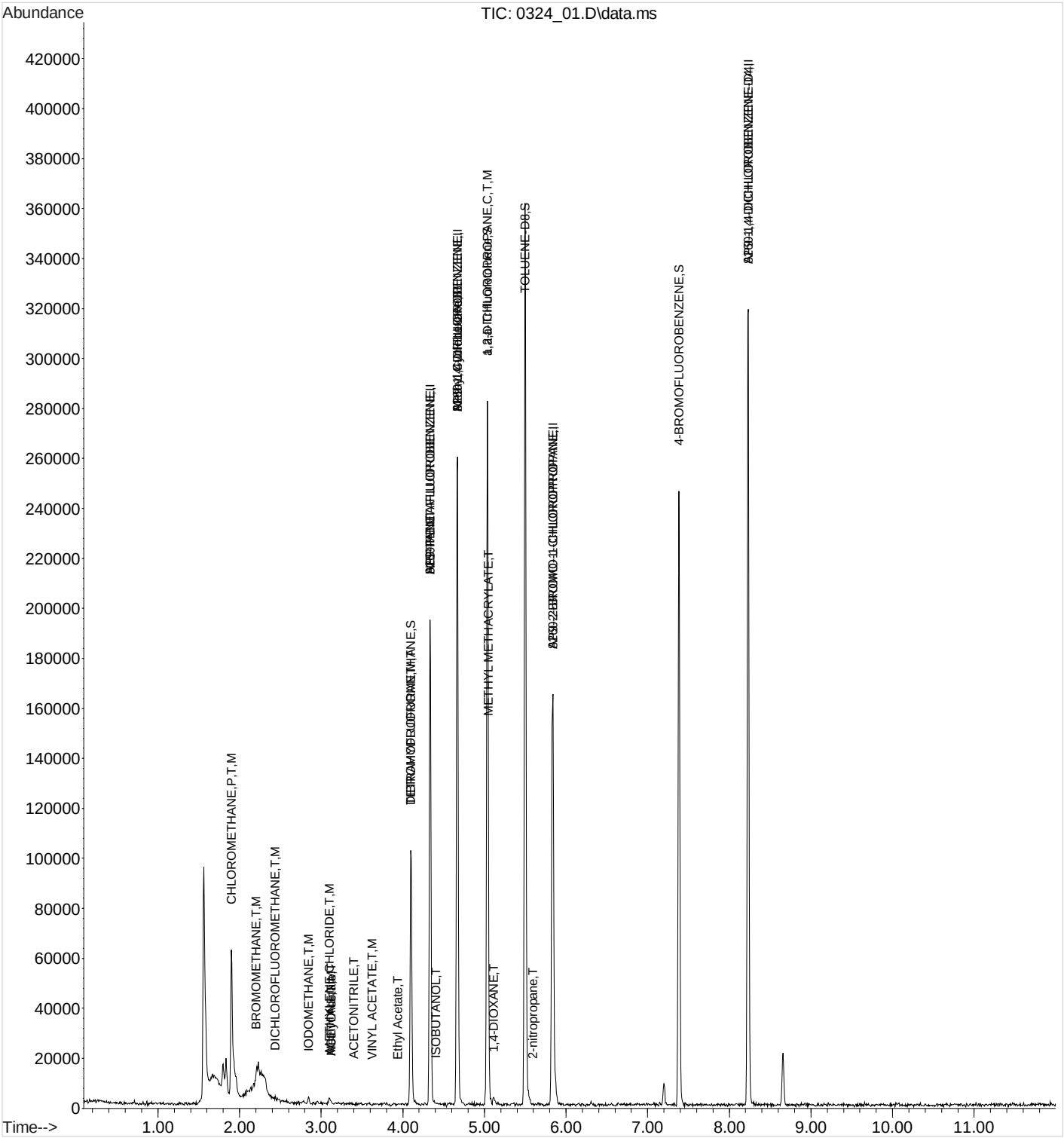
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	98294	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	160407	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	26783	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	73973	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	98294	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	160407	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	26783	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	73973	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	48769	40.8618225	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.15%			
46) a,a,a-Trifluorotoluene	5.034	146	89757	42.2585259	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.65%			
50) TOLUENE-D8	5.497	98	192071	42.3543814	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.89%			
68) 4-BROMOFLUOROBENZENE	7.383	95	72248	42.1159673	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.29%			
Target Compounds						Qvalue
5) CHLOROMETHANE	1.901	50	2909	1.8226332	ppb #	50
8) BROMOMETHANE	2.199	94	545	0.6856300	ppb #	50
11) DICHLOROFLUOROMETHANE	2.437	67	821	0.3655897	ppb #	43
16) ACETONE	3.124	43	2040	2.7381897	ppb #	44
17) IODOMETHANE	2.844	142	2290	1.7694682	ppb #	86
19) METHYLENE CHLORIDE	3.100	84	1032	0.8770466	ppb #	75
25) VINYL ACETATE	3.623	43	884	0.4326485	ppb #	78
31) TETRAHYDROFURAN	4.097	42	1323	3.0356559	ppb #	3
38) HEPTANE	4.335	43	1176	0.5035719	ppb #	30
43) 1,2-DICHLOROPROPANE	5.034	62	1831	2.1779508	ppb #	22
100) Methyl Acetate	3.124	43	2040	1.9392540	ppb #	58
101) ACETONITRILE	3.398	41	834	5.0016608	ppb #	33
107) Ethyl Acetate	3.939	43	828	0.6532893	ppb #	69
111) ISOBUTANOL	4.402	43	632	8.0500349	ppb #	75
116) Methyl Cyclohexane	4.669	83	2983	0.3089936	ppb #	71
117) 2-nitropropane	5.594	43	648	1.4827211	ppb #	63
118) METHYL METHACRYLATE	5.047	41	1098	0.9249885	ppb #	1
119) 1,4-DIOXANE	5.113	88	1633	124.8946835	ppb #	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 01.D
Acq On : 24 Mar 2015 10:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:20 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 01.D
Acq On : 24 Mar 2015 10:51 am
Operator : 621
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Misc : water IS/SURR15A20860
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Quant Time: Mar 25 13:50:20 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

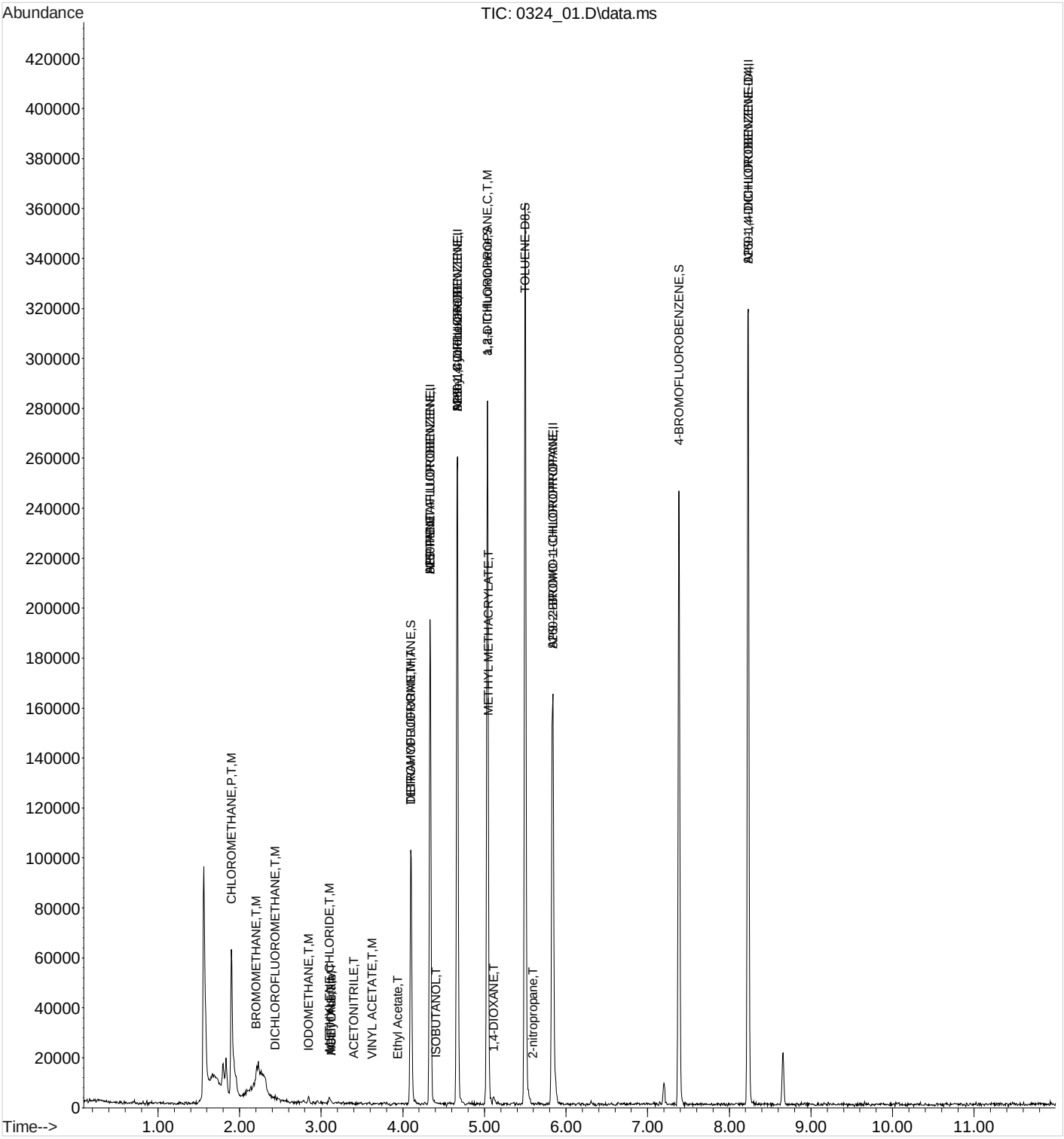
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.335	168	98294	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	160407	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	26783	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	73973	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.335	168	98294	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	160407	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	26783	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	73973	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	48769	40.8618225	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.15%			
46) a,a,a-Trifluorotoluene	5.034	146	89757	42.2585259	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.65%			
50) TOLUENE-D8	5.497	98	192071	42.3543814	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 105.89%			
68) 4-BROMOFLUOROBENZENE	7.383	95	72248	42.1159673	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.29%			
Target Compounds						Qvalue
5) CHLOROMETHANE	1.901	50	2909	1.8226332	ppb	# 50
8) BROMOMETHANE	2.199	94	545	0.6856300	ppb	# 50
11) DICHLOROFLUOROMETHANE	2.437	67	821	0.3655897	ppb	# 43
16) ACETONE	3.124	43	2040	2.7381897	ppb	# 44
17) IODOMETHANE	2.844	142	2290	1.7694682	ppb	# 86
19) METHYLENE CHLORIDE	3.100	84	1032	0.8770466	ppb	# 75
25) VINYL ACETATE	3.623	43	884	0.4326485	ppb	# 78
31) TETRAHYDROFURAN	4.097	42	1323	3.0356559	ppb	# 3
38) HEPTANE	4.335	43	1176	0.5035719	ppb	# 30
43) 1,2-DICHLOROPROPANE	5.034	62	1831	2.1779508	ppb	# 22
100) Methyl Acetate	3.124	43	2040	1.9392540	ppb	# 58
101) ACETONITRILE	3.398	41	834	5.0016608	ppb	# 33
107) Ethyl Acetate	3.939	43	828	0.6532893	ppb	# 69
111) ISOBUTANOL	4.402	43	632	8.0500349	ppb	# 75
116) Methyl Cyclohexane	4.669	83	2983	0.3089936	ppb	# 71
117) 2-nitropropane	5.594	43	648	1.4827211	ppb	# 63
118) METHYL METHACRYLATE	5.047	41	1098	0.9249885	ppb	# 1
119) 1,4-DIOXANE	5.113	88	1633	124.8946835	ppb	# 72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 01.D
Acq On : 24 Mar 2015 10:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:20 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 32.D
Acq On : 25 Mar 2015 4:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:05 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration

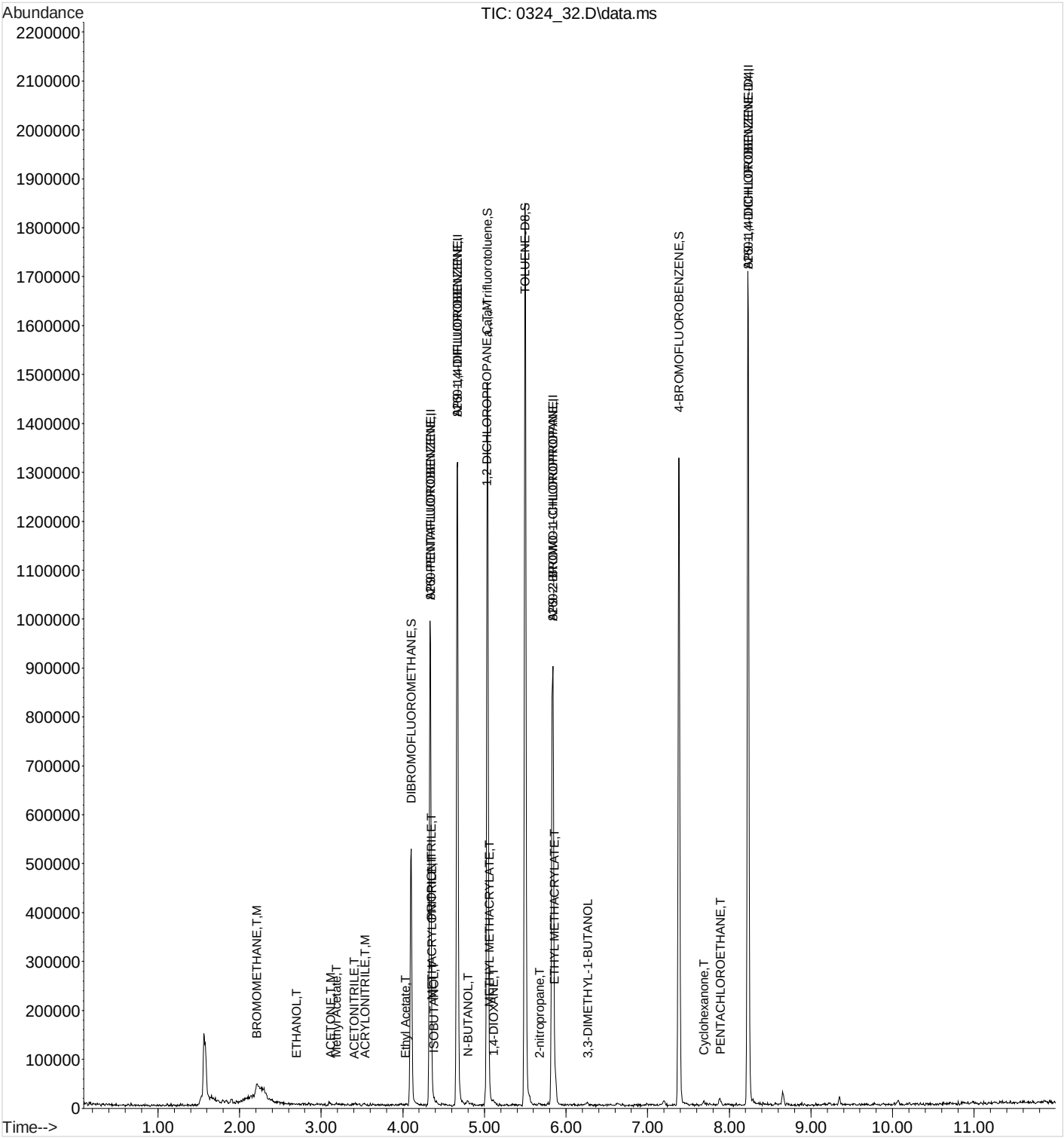
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	493704	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	792533	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	139483	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	373299	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	493704	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	792533	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	139483	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	373299	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.104	111	247372	41.2652790 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.16%		
46) a,a,a-Trifluorotoluene	5.034	146	446376	42.5356245 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.34%		
50) TOLUENE-D8	5.497	98	968015	43.2040634 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.01%		
68) 4-BROMOFLUOROBENZENE	7.383	95	370287	41.4474062 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.62%		
Target Compounds					Qvalue
8) BROMOMETHANE	2.212	94	2968	0.7433915 ppb #	77
9) CHLOROETHANE	2.254	66	568	Below Cal #	1
16) ACETONE	3.118	43	3255	0.8698507 ppb #	74
20) ACRYLONITRILE	3.538	53	1881	0.7848027 ppb #	32
43) 1,2-DICHLOROPROPANE	5.028	62	11646	2.8037706 ppb #	36
97) ETHANOL	2.698	45	859	9.5488133 ppb #	16
100) Methyl Acetate	3.185	43	7204	1.3634480 ppb #	58
101) ACETONITRILE	3.404	41	1777	2.1217586 ppb #	71
106) PROPIONITRILE	4.353	54	3540	4.2361070 ppb #	19
107) Ethyl Acetate	4.031	43	2982	0.4684284 ppb #	76
108) METHACRYLONITRILE	4.359	67	10220	4.3775283 ppb #	82
111) ISOBUTANOL	4.383	43	3171	8.0415041 ppb #	75
115) N-BUTANOL	4.803	56	5804	30.3832331 ppb #	76
117) 2-nitropropane	5.673	43	876	0.4056902 ppb #	15
118) METHYL METHACRYLATE	5.059	41	3604	0.6145041 ppb #	19
119) 1,4-DIOXANE	5.113	88	2634	40.7736415 ppb #	58
121) 3,3-DIMETHYL-1-BUTANOL	6.263	57	3113	5.2687499 ppb #	83
123) ETHYL METHACRYLATE	5.856	69	3531	0.4976885 ppb #	1
125) Cyclohexanone	7.687	55	4033	2.9965853 ppb	87
126) PENTACHLOROETHANE	7.888	117	2376	0.7269606 ppb #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 32.D
Acq On : 25 Mar 2015 4:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:05 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

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53) 8260-2-BROMO-1-CHLOROP...	5.837	79	139483	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.234	152	373299	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	493704	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	792533	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	139483	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.234	152	373299	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.104	111	247372	41.2652790	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.16%			
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50) TOLUENE-D8	5.497	98	968015	43.2040634	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.01%			
68) 4-BROMOFLUOROBENZENE	7.383	95	370287	41.4474062	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.62%			
Target Compounds						Qvalue
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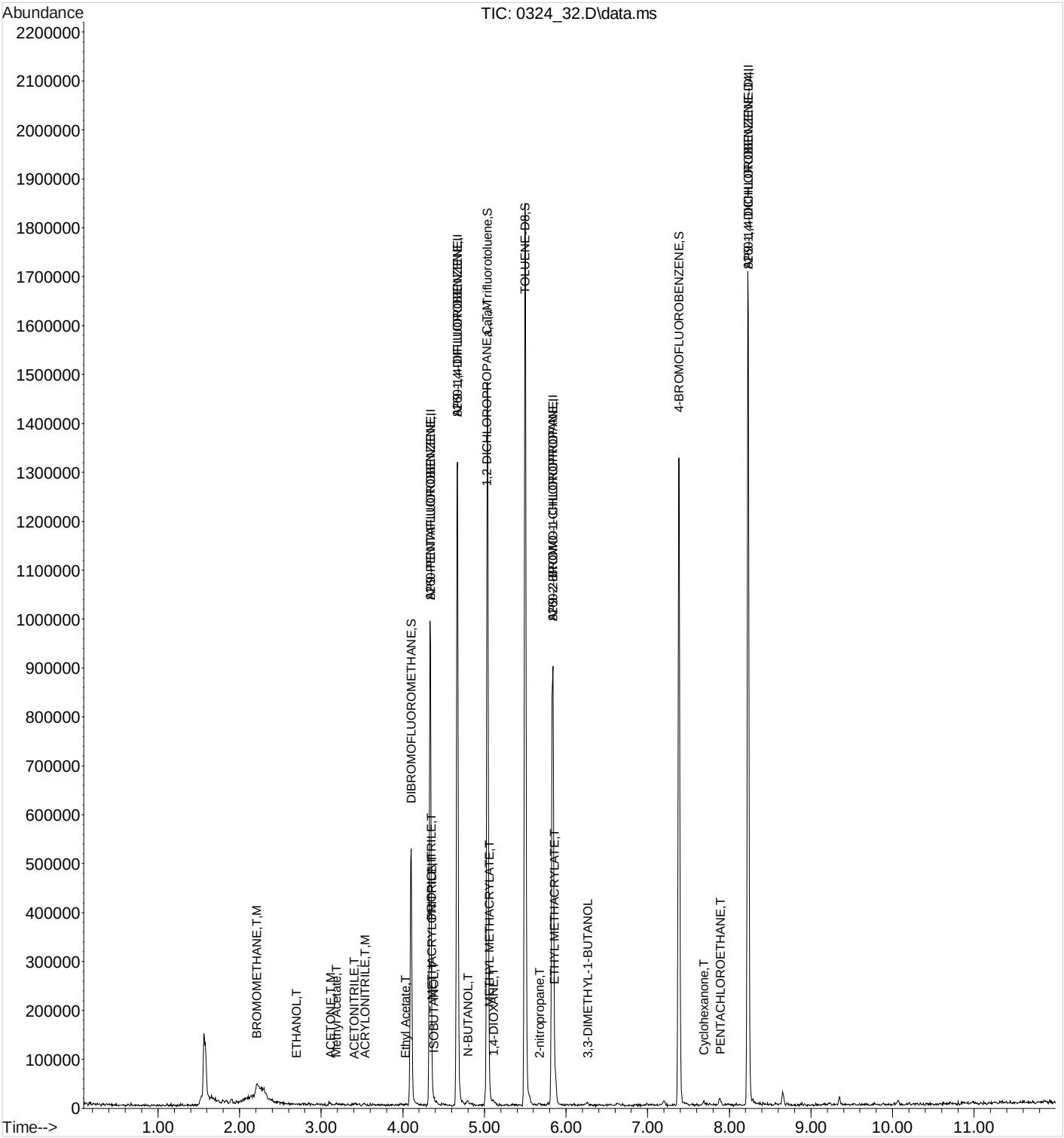
107) Ethyl Acetate	4.031	43	2982	0.4684284	ppb #	76
108) METHACRYLONITRILE	4.359	67	10220	4.3775283	ppb #	82
111) ISOBUTANOL	4.383	43	3171	8.0415041	ppb #	75
115) N-BUTANOL	4.803	56	5804	30.3832331	ppb #	76
117) 2-nitropropane	5.673	43	876	0.4056902	ppb #	15
118) METHYL METHACRYLATE	5.059	41	3604	0.6145041	ppb #	19
119) 1,4-DIOXANE	5.113	88	2634	40.7736415	ppb #	58
121) 3,3-DIMETHYL-1-BUTANOL	6.263	57	3113	5.2687499	ppb #	83
123) ETHYL METHACRYLATE	5.856	69	3531	0.4976885	ppb #	1
125) Cyclohexanone	7.687	55	4033	2.9965853	ppb	87
126) PENTACHLOROETHANE	7.888	117	2376	0.7269606	ppb #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032415\
Data File : 0324 32.D
Acq On : 25 Mar 2015 4:51 am
Operator : 621
Sample : INSTBLK VMS
Misc : water IS/SURR15A20860
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Mar 25 13:50:05 2015
Quant Method : C:\msdchem\1\methods\V807C24O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Wed Mar 25 13:27:30 2015
Response via : Initial Calibration



Instrument: VOCMS18
Method: V818E01O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0501_15.D	.25	5/1/2015 6:54:00 PM
0501_16.D	.5	5/1/2015 7:14:00 PM
0501_17.D	1	5/1/2015 7:34:00 PM
0501_18.D	2	5/1/2015 7:54:00 PM
0501_19.D	5.0	5/1/2015 8:15:00 PM
0501_20.D	10	5/1/2015 8:35:00 PM
0501_21.D	25	5/1/2015 8:55:00 PM
0501_22.D	40	5/1/2015 9:15:00 PM
0501_23.D	75	5/1/2015 9:35:00 PM
0501_24.D	100	5/1/2015 9:54:00 PM
0501_25.D	200	5/1/2015 10:14:00 PM
0501_30.D	1A	5/1/2015 11:53:00 PM
0501_31.D	2.5A	5/2/2015 12:13:00 AM
0501_32.D	5A	5/2/2015 12:33:00 AM
0501_33.D	7.5A	5/2/2015 12:53:00 AM
0501_34.D	10A	5/2/2015 1:13:00 AM
0501_35.D	12A	5/2/2015 1:33:00 AM
0501_36.D	15A	5/2/2015 1:53:00 AM
0501_37.D	17A	5/2/2015 2:12:00 AM
0501_38.D	20A	5/2/2015 2:32:00 AM
0501_43.D	0.4	5/2/2015 4:12:00 AM
0501_44.D	1	5/2/2015 4:32:00 AM
0501_45.D	2	5/2/2015 4:52:00 AM
0501_46.D	4	5/2/2015 5:12:00 AM
0501_47.D	5.0	5/2/2015 5:32:00 AM
0501_48.D	7	5/2/2015 5:52:00 AM
0501_49.D	10	5/2/2015 6:12:00 AM
0501_50.D	20	5/2/2015 6:32:00 AM

8260B FULL LIST
8260C FULL LIST
6200 GOOD
602 GOOD
STARS GOOD
AZ GOOD
AP9 FULL LIST
GRO GOOD

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Ben Baker
Date Released : 5/3/2015 4:29:33 PM

Run ID : 050115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0501_01	INSTBLK	V818E01O						1	1	05/01/15 0652	"water IS/SURR15C12445"
2	0501_01	INSTBLK								1	05/1/15 0652	
3	0501_02	INSTBLK	V818E01O						1	1	05/01/15 0712	"water IS/SURR15C12445"
4	0501_02	INSTBLK								1	05/1/15 0712	
5	0501_03	INSTBLK	V818E01O						1	1	05/01/15 0732	"water IS/SURR15C12445"
6	0501_03	INSTBLK								1	05/1/15 0732	
7	0501_04	INSTBLK	V818E01O						1	1	05/01/15 0751	"water IS/SURR15C12445"
8	0501_04	INSTBLK								1	05/1/15 0751	
9	0501_05	INSTBLK	V818E01O						1	1	05/01/15 0812	"water IS/SURR15C12445"
10	0501_05	INSTBLK								1	05/1/15 0812	
11	0501_06	INSTBLK	V818C19O						1	1	05/01/15 0832	"water IS/SURR15C12445"
12	0501_06	INSTBLK								1	05/1/15 0832	
13	0501_07	INSTBLK	V818E01O						1	1	05/01/15 0852	"water IS/SURR15C12445"
14	0501_08	INSTBLK	V818E01O						1	1	05/01/15 0912	"water IS/SURR15C12445"
15	0501_09	INSTBLK	V818E01O						1	1	05/01/15 0932	"water IS/SURR15C12445"
16	0501_09	INSTBLK								1	05/1/15 0932	
17	0501_10	INSTBLK	V818E01O						1	1	05/01/15 0952	"water IS/SURR15C12445"
18	0501_10	INSTBLK								1	05/1/15 0952	
19	0501_11	1 ppb								1	05/1/15 1449	
20	0501_13	INSTBLK	V818E01O						1	1	05/01/15 1814	"water IS/SURR15C12445"
21	0501_14	INSTBLK	V818E01O						1	1	05/01/15 1834	"water IS/SURR15C12445"
22	0501_14	INSTBLK	V818E01O							1	05/1/15 1834	
23	0501_15	STD VMS 0.25 PPB 15D23602	V818E01O						1	1	05/01/15 1854	"water IS/SURR15C12445"

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Ben Baker
Date Released : 5/3/2015 4:29:33 PM
Run ID : 050115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
24	0501_16	STD VMS 0.5 PPB 15D23602	V818E01O						1	1	05/01/15 1914	"water IS/SURR15C12445"
25	0501_17	STD VMS 1 PPB 15D23602	V818E01O						1	1	05/01/15 1934	"water IS/SURR15C12445"
26	0501_18	STD VMS 2 PPB 15D23602	V818E01O						1	1	05/01/15 1954	"water IS/SURR15C12445"
27	0501_19	STD VMS 5.0 PPB 15D23602	V818E01O						1	1	05/01/15 2015	"water IS/SURR15C12445"
28	0501_20	STD VMS 10 PPB 15D23602	V818E01O						1	1	05/01/15 2035	"water IS/SURR15C12445"
29	0501_21	MSTD VMS 25 PPB 15D23602	V818E01O						1	1	05/01/15 2055	"water IS/SURR15C12445"
30	0501_22	STD VMS 40 PPB 15D23602	V818E01O						1	1	05/01/15 2115	"water IS/SURR15C12445"
31	0501_23	STD VMS 75 PPB 15D23602	V818E01O						1	1	05/01/15 2135	"water IS/SURR15C12445"
32	0501_24	STD VMS 100 PPB 15D23602	V818E01O						1	1	05/01/15 2154	"water IS/SURR15C12445"
33	0501_25	STD VMS 200 PPB 15D23602	V818E01O						1	1	05/01/15 2214	"water IS/SURR15C12445"
34	0501_27	SSCV VMS 25 PPB 15D23604	V818E01O						1	1	05/01/15 2253	"water IS/SURR15C12445"
35	0501_30	STD VMS 1A PPB 15C22898	V818E01O						1	1	05/01/15 2353	"water IS/SURR15C12445"
36	0501_30A	RL VMS 1A PPB 15C22898	V818E01O						1	1	05/01/15 2353	"water IS/SURR15C12445"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS18
Computer Name : VOCCOMPAF

Released By : Ben Baker
Date Released : 5/3/2015 4:29:33 PM

Run ID : 050115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
37	0501_31	STD VMS 2.5A PPB 15C22898	V818E01O						1	1	05/02/15 0013	"water IS/SURR15C12445"
38	0501_32	STD VMS 5A PPB 15C22898	V818E01O						1	1	05/02/15 0033	"water IS/SURR15C12445"
39	0501_33	STD VMS 7.5A PPB 15C22898	V818E01O						1	1	05/02/15 0053	"water IS/SURR15C12445"
40	0501_34	MSTD VMS 10A PPB 15C22898	V818E01O						1	1	05/02/15 0113	"water IS/SURR15C12445"
41	0501_35	STD VMS 12.5A PPB 15C22898	V818E01O						1	1	05/02/15 0133	"water IS/SURR15C12445"
42	0501_36	STD VMS 15A PPB 15C22898	V818E01O						1	1	05/02/15 0153	"water IS/SURR15C12445"
43	0501_37	STD VMS 17.5A PPB 15C22898	V818E01O						1	1	05/02/15 0212	"water IS/SURR15C12445"
44	0501_38	STD VMS 20A PPB 15C22898	V818E01O						1	1	05/02/15 0232	"water IS/SURR15C12445"
45	0501_40	SSCV VMS 10A PPB 15C22904	V818E01O						1	1	05/02/15 0312	"water IS/SURR15C12445"
46	0501_43	STD GROMS 0.4 PPM 15D07746	V818E01O						1	1	05/02/15 0412	"water IS/SURR15C12445"
47	0501_44	STD GROMS 1 PPM 15D07746	V818E01O						1	1	05/02/15 0432	"water IS/SURR15C12445"
48	0501_45	STD GROMS 2 PPM 15D07746	V818E01O						1	1	05/02/15 0452	"water IS/SURR15C12445"
49	0501_46	STD GROMS 4 PPM 15D07746	V818E01O						1	1	05/02/15 0512	"water IS/SURR15C12445"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

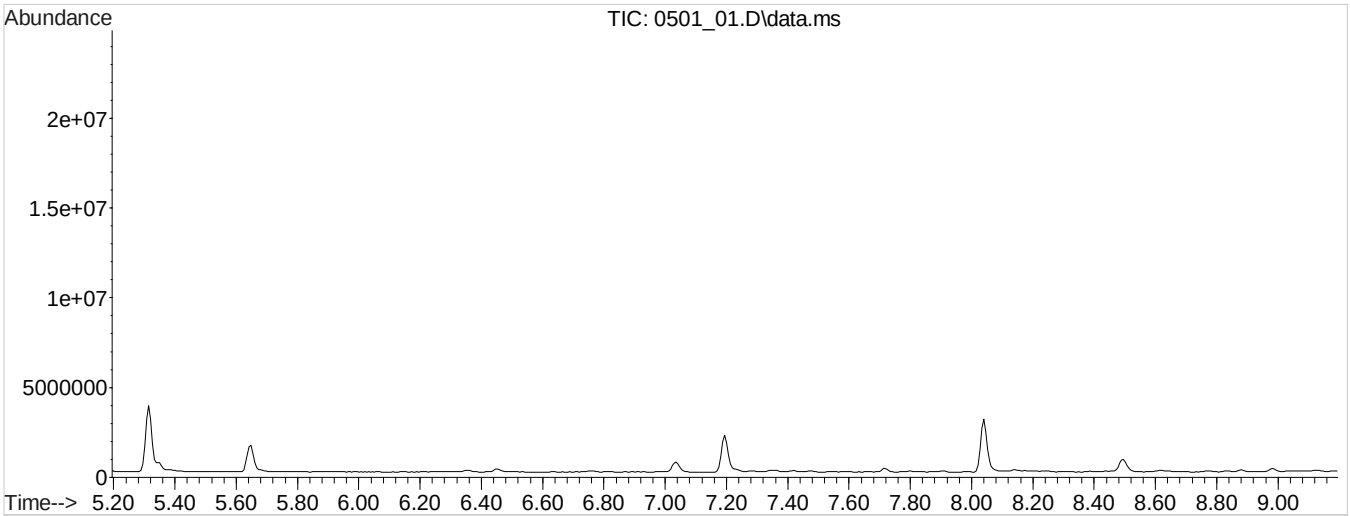
Instrument ID : VOCMS18
Computer Name : VOCCOMPAF
Released By : Ben Baker
Date Released : 5/3/2015 4:29:33 PM
Run ID : 050115
Signature : _____

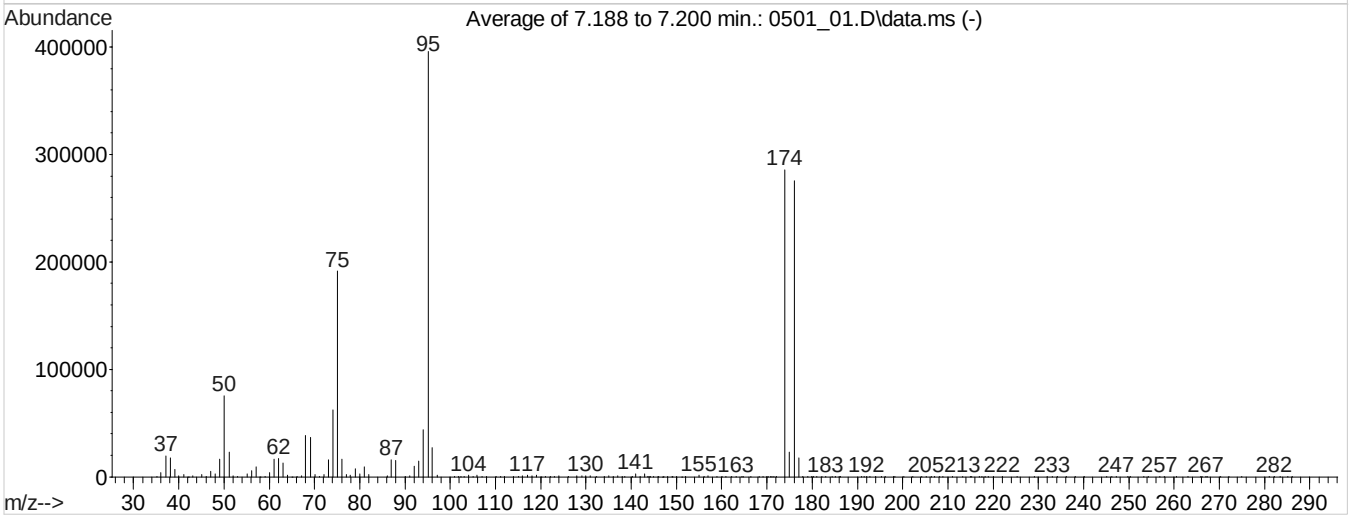
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
50	0501_47	MSTD GROMS 5.0 PPM 15D07746	V818E01O						1	1	05/02/15 0532	"water IS/SURR15C12445"
51	0501_48	STD GROMS 7 PPM 15D07746	V818E01O						1	1	05/02/15 0552	"water IS/SURR15C12445"
52	0501_49	STD GROMS 10 PPM 15D07746	V818E01O						1	1	05/02/15 0612	"water IS/SURR15C12445"
53	0501_50	STD GROMS 20 PPM 15D07746	V818E01O						1	1	05/02/15 0632	"water IS/SURR15C12445"
54	0501_52	SSCV GROMS 5.0 PPM 15D07745	V818E01O						1	1	05/02/15 0712	"water IS/SURR15C12445"

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





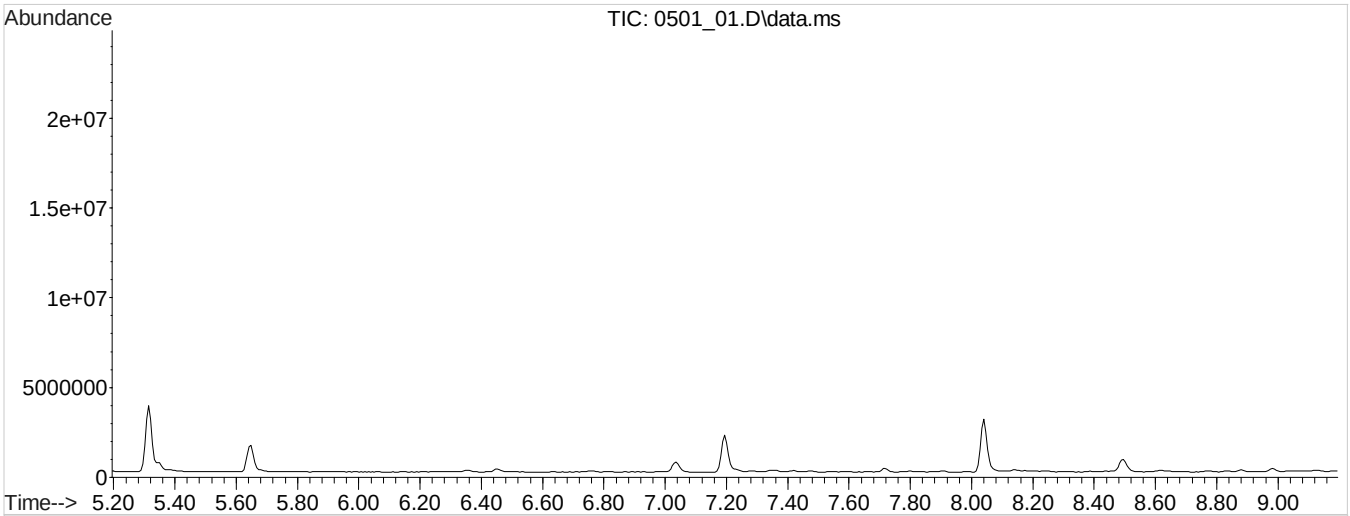
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1161

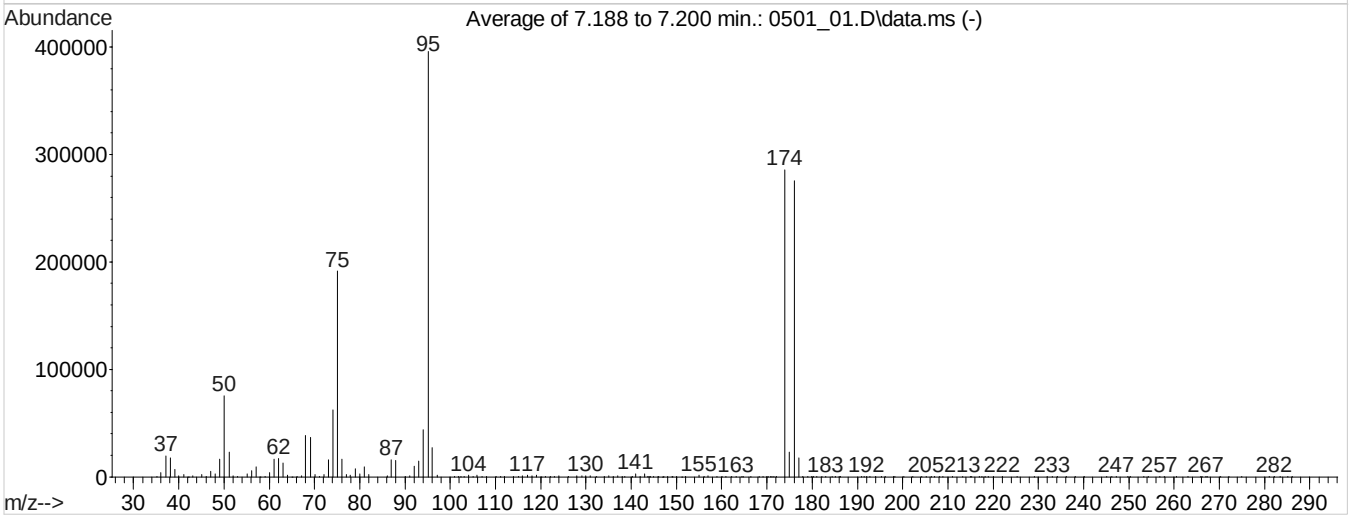
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	75184	PASS
75	95	30	60	48.3	191353	PASS
95	95	100	100	100.0	396021	PASS
96	95	5	9	6.8	26968	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.1	285632	PASS
175	174	5	9	8.0	22853	PASS
176	174	95	101	96.4	275413	PASS
177	176	5	9	6.4	17658	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





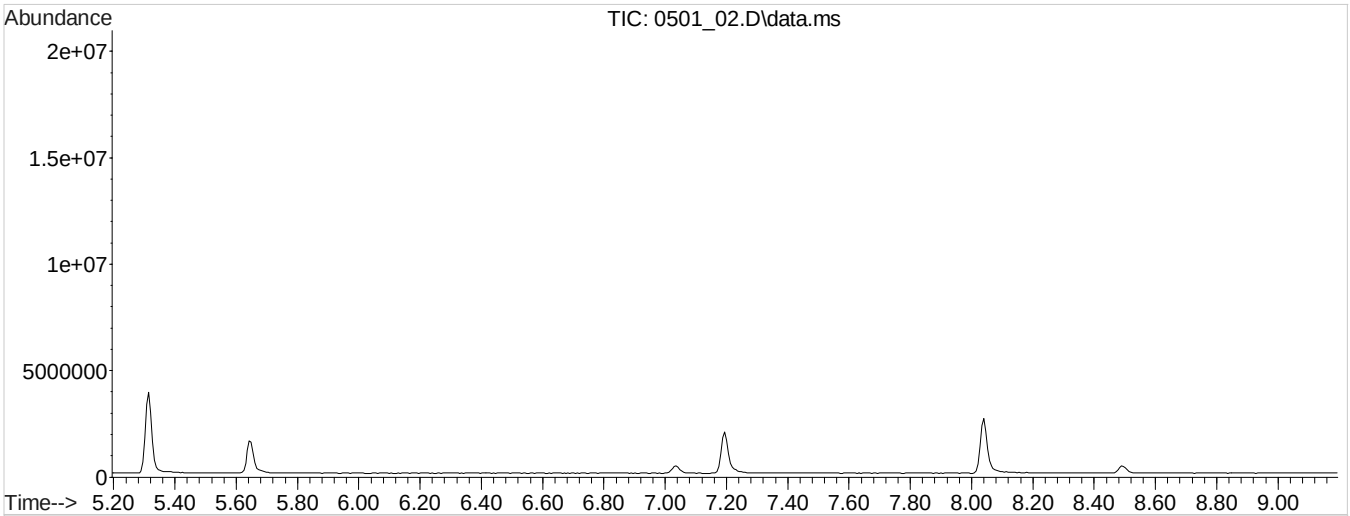
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1161

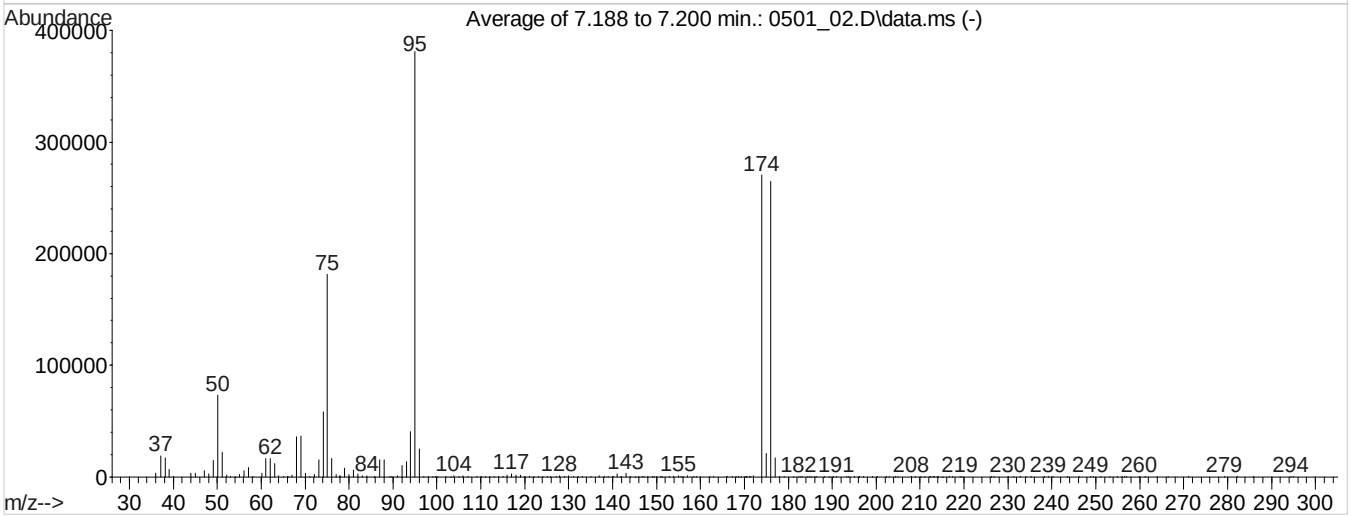
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	75184	PASS
75	95	30	60	48.3	191353	PASS
95	95	100	100	100.0	396021	PASS
96	95	5	9	6.8	26968	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.1	285632	PASS
175	174	5	9	8.0	22853	PASS
176	174	95	101	96.4	275413	PASS
177	176	5	9	6.4	17658	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
Acq On : 1 May 2015 7:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





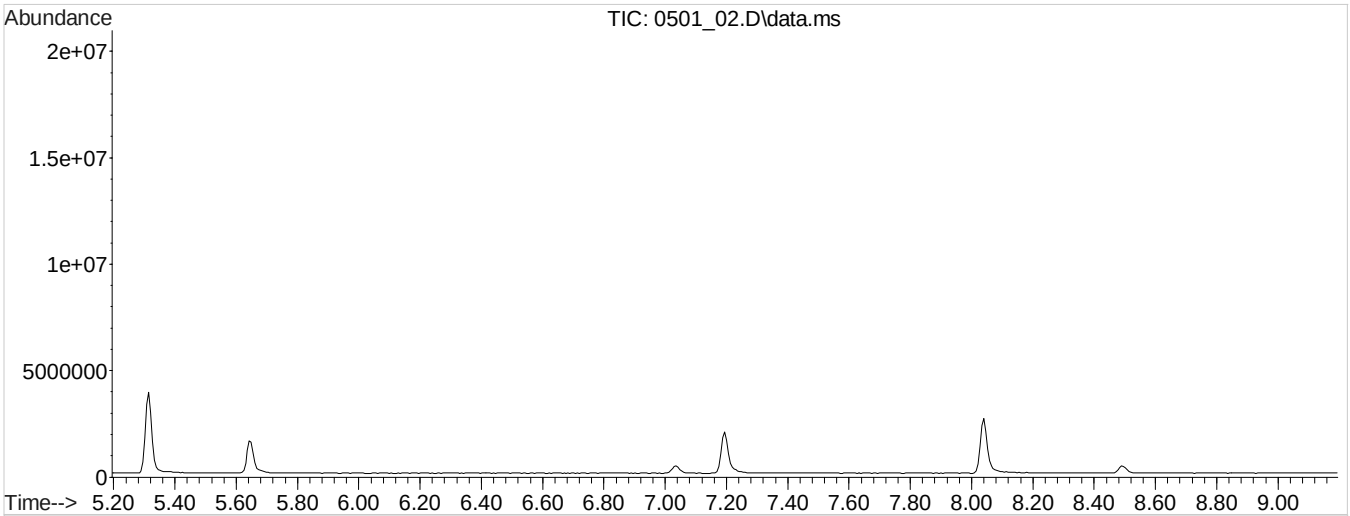
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1157

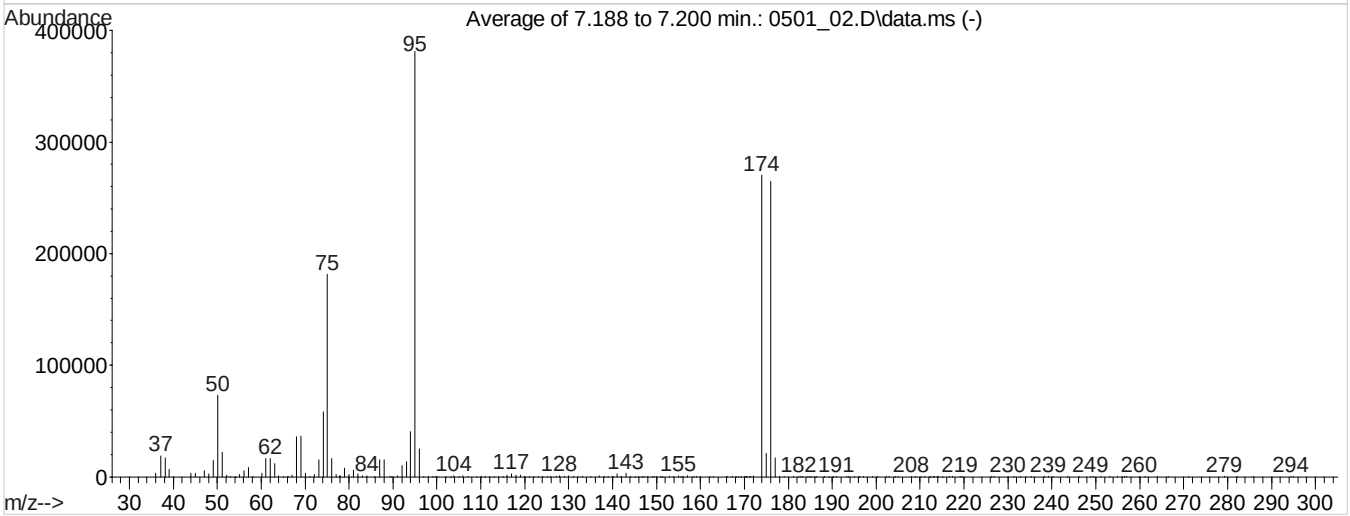
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	73331	PASS
75	95	30	60	47.6	181699	PASS
95	95	100	100	100.0	381348	PASS
96	95	5	9	6.6	25153	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	71.0	270632	PASS
175	174	5	9	7.8	21071	PASS
176	174	95	101	97.7	264517	PASS
177	176	5	9	6.4	16938	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
Acq On : 1 May 2015 7:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





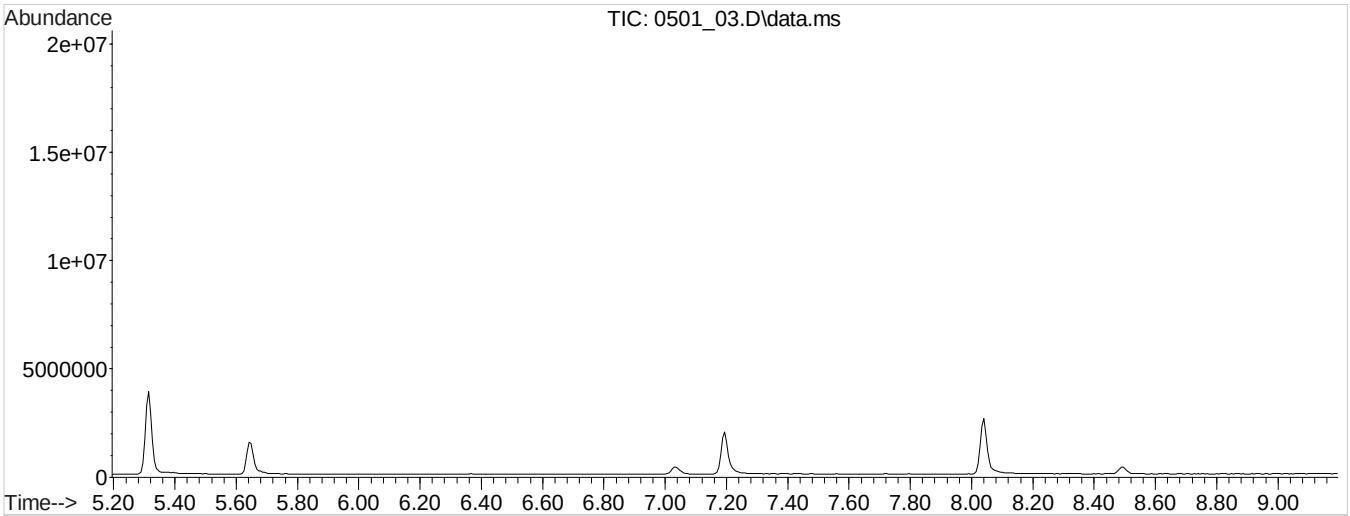
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1157

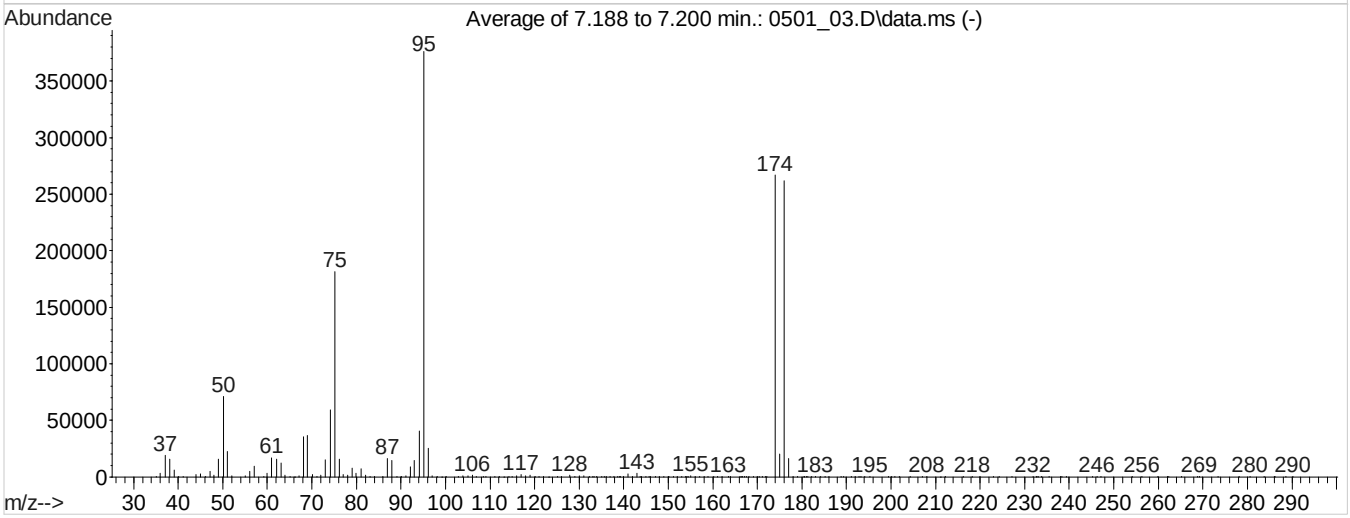
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	73331	PASS
75	95	30	60	47.6	181699	PASS
95	95	100	100	100.0	381348	PASS
96	95	5	9	6.6	25153	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	71.0	270632	PASS
175	174	5	9	7.8	21071	PASS
176	174	95	101	97.7	264517	PASS
177	176	5	9	6.4	16938	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





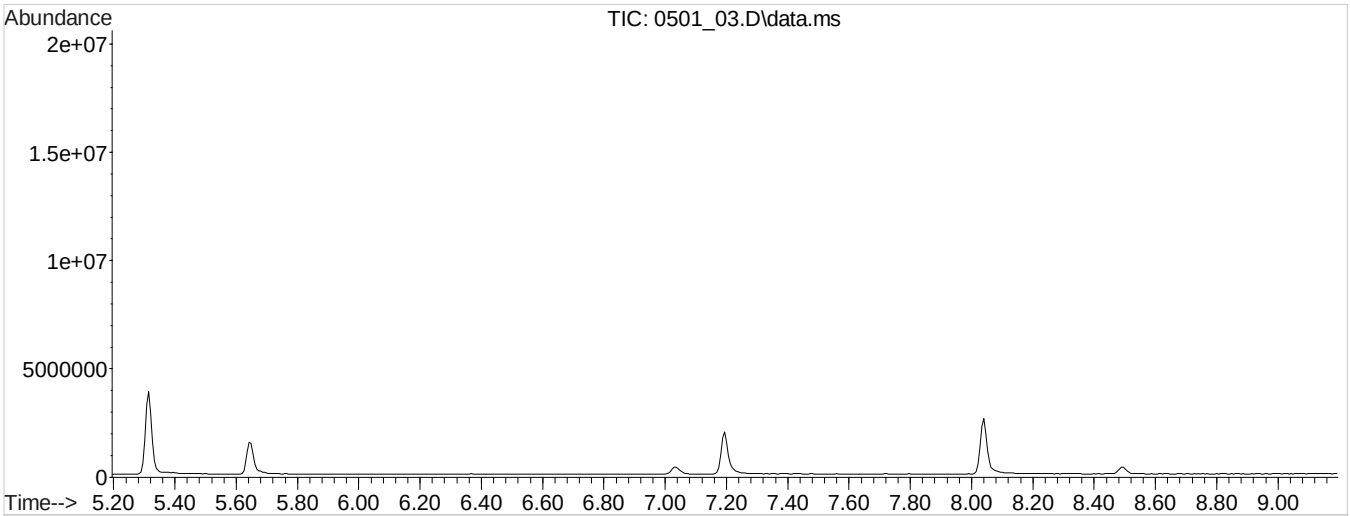
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

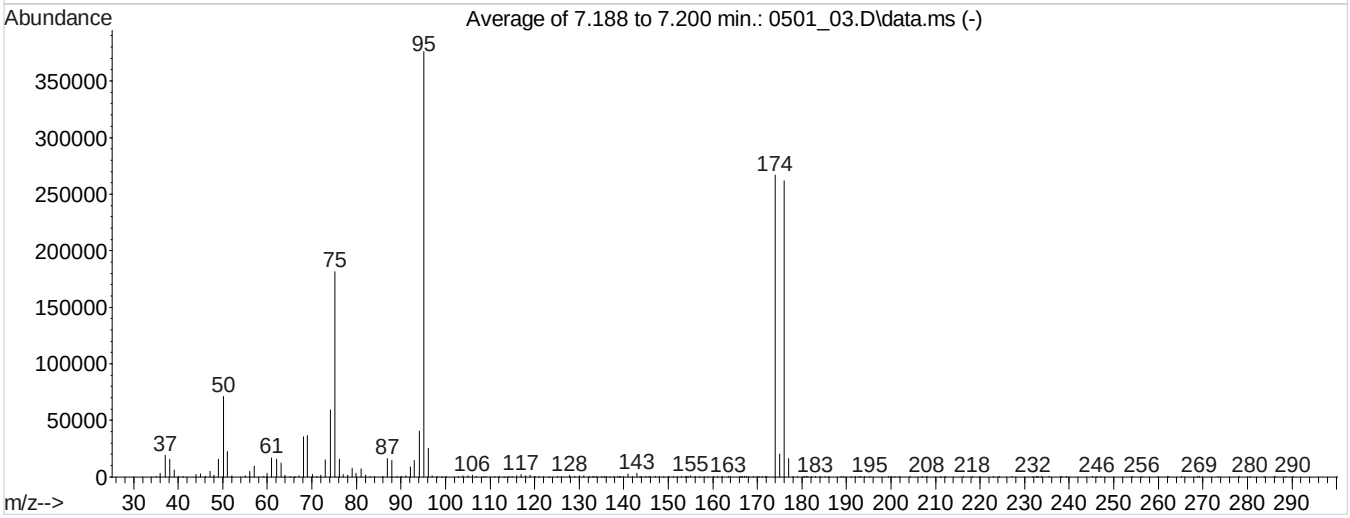
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	70865	PASS
75	95	30	60	48.2	181263	PASS
95	95	100	100	100.0	376265	PASS
96	95	5	9	6.7	25212	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.9	266691	PASS
175	174	5	9	7.5	20067	PASS
176	174	95	101	98.1	261568	PASS
177	176	5	9	6.3	16414	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





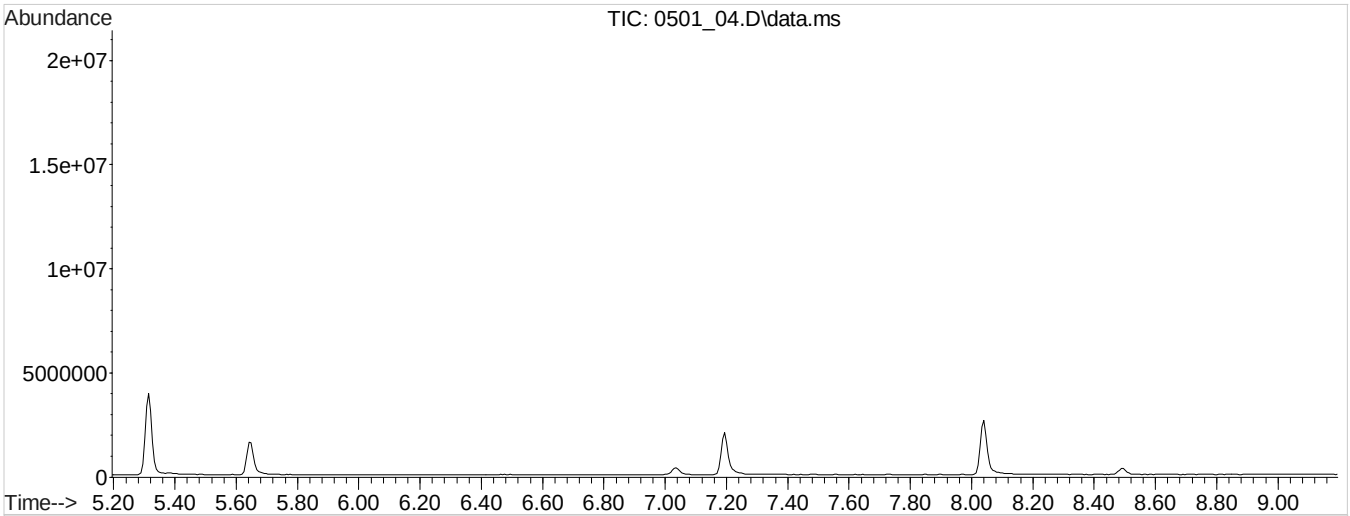
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

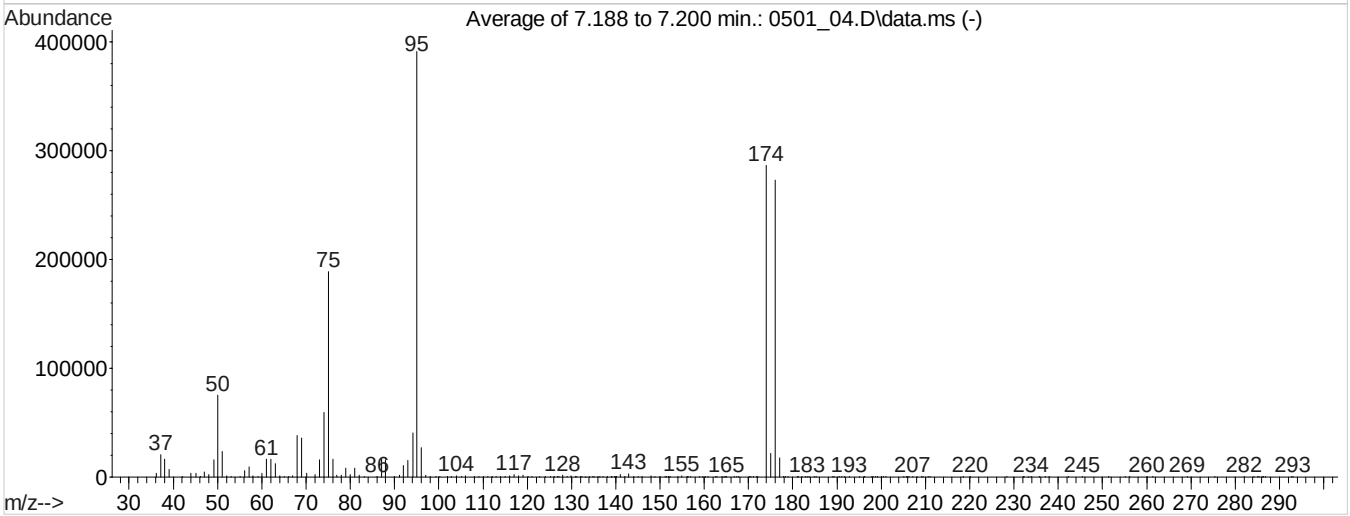
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	70865	PASS
75	95	30	60	48.2	181263	PASS
95	95	100	100	100.0	376265	PASS
96	95	5	9	6.7	25212	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.9	266691	PASS
175	174	5	9	7.5	20067	PASS
176	174	95	101	98.1	261568	PASS
177	176	5	9	6.3	16414	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





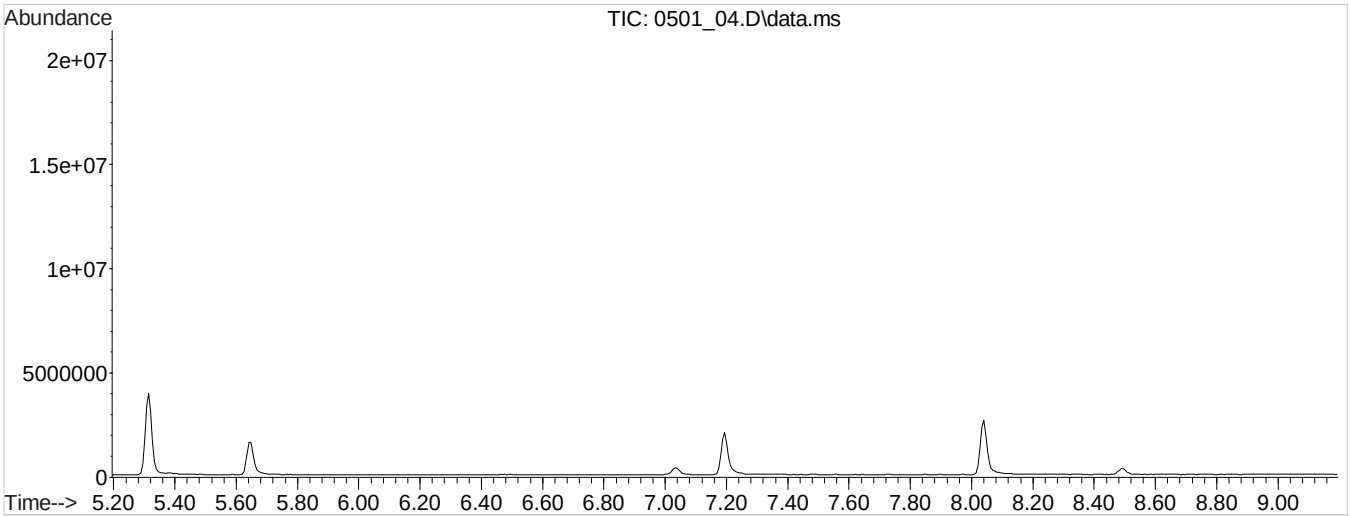
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1159

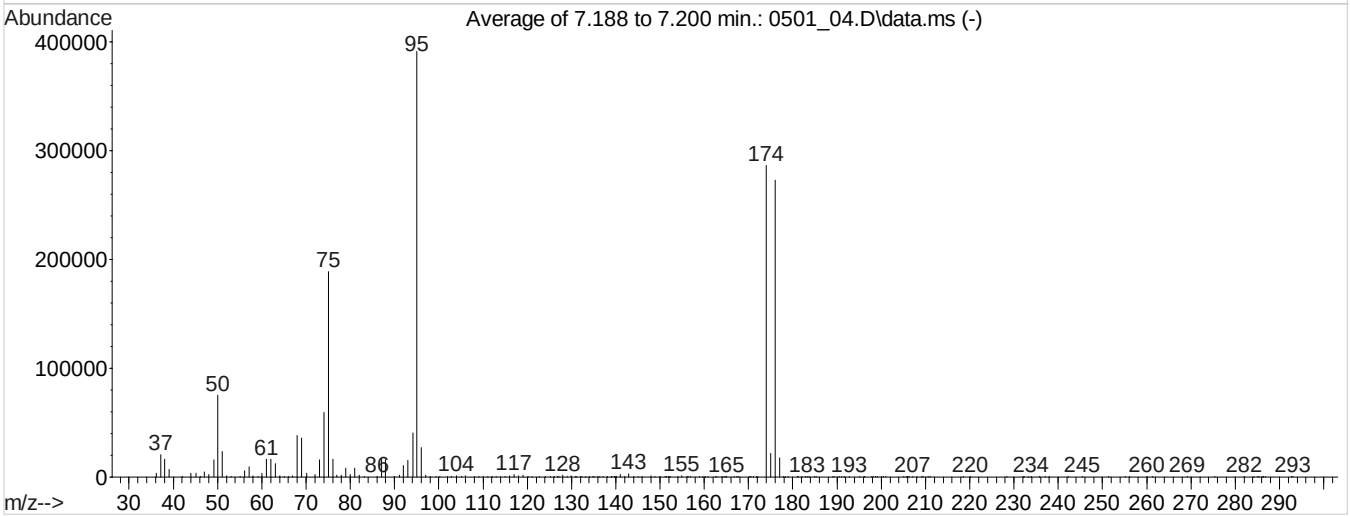
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	75204	PASS
75	95	30	60	48.2	188318	PASS
95	95	100	100	100.0	391042	PASS
96	95	5	9	6.8	26560	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.2	286272	PASS
175	174	5	9	7.5	21412	PASS
176	174	95	101	95.2	272555	PASS
177	176	5	9	6.4	17443	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





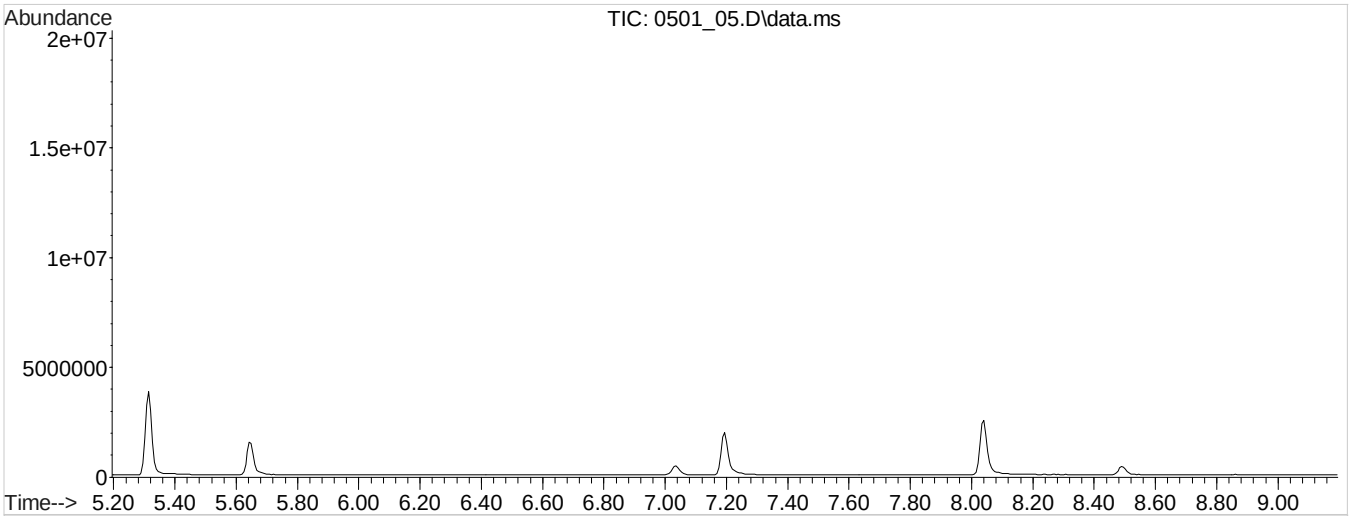
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1159

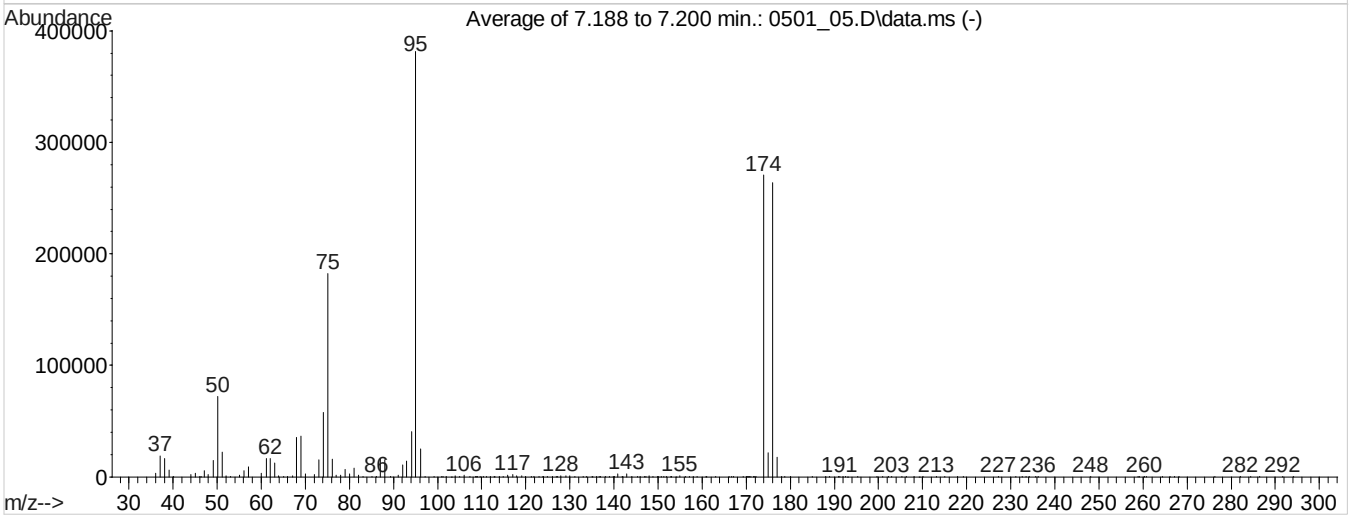
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	75204	PASS
75	95	30	60	48.2	188318	PASS
95	95	100	100	100.0	391042	PASS
96	95	5	9	6.8	26560	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.2	286272	PASS
175	174	5	9	7.5	21412	PASS
176	174	95	101	95.2	272555	PASS
177	176	5	9	6.4	17443	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





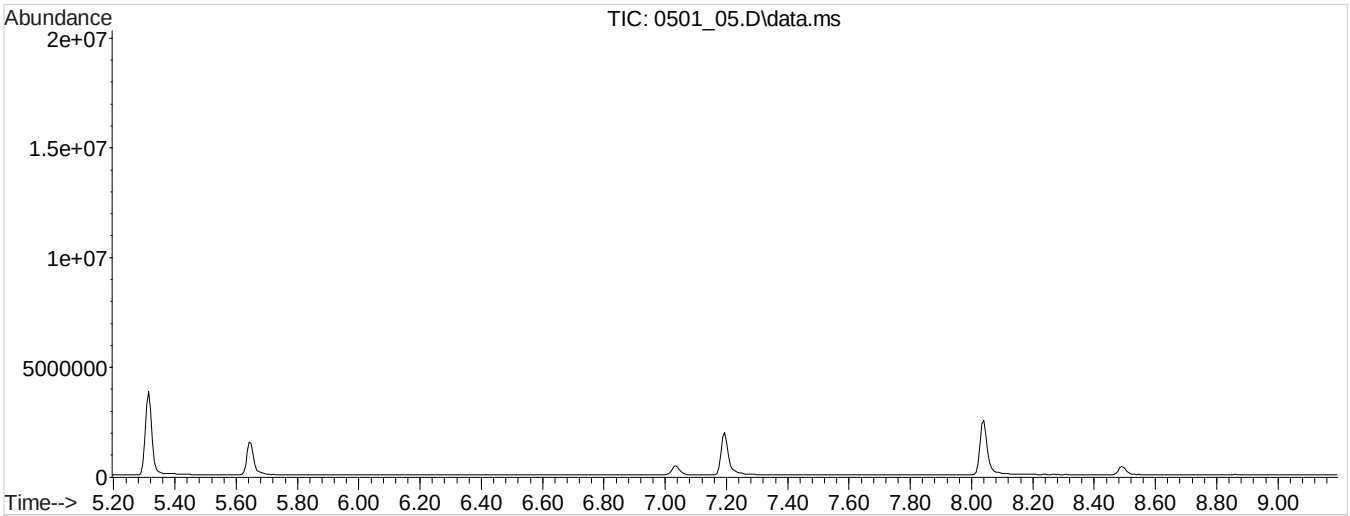
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1161

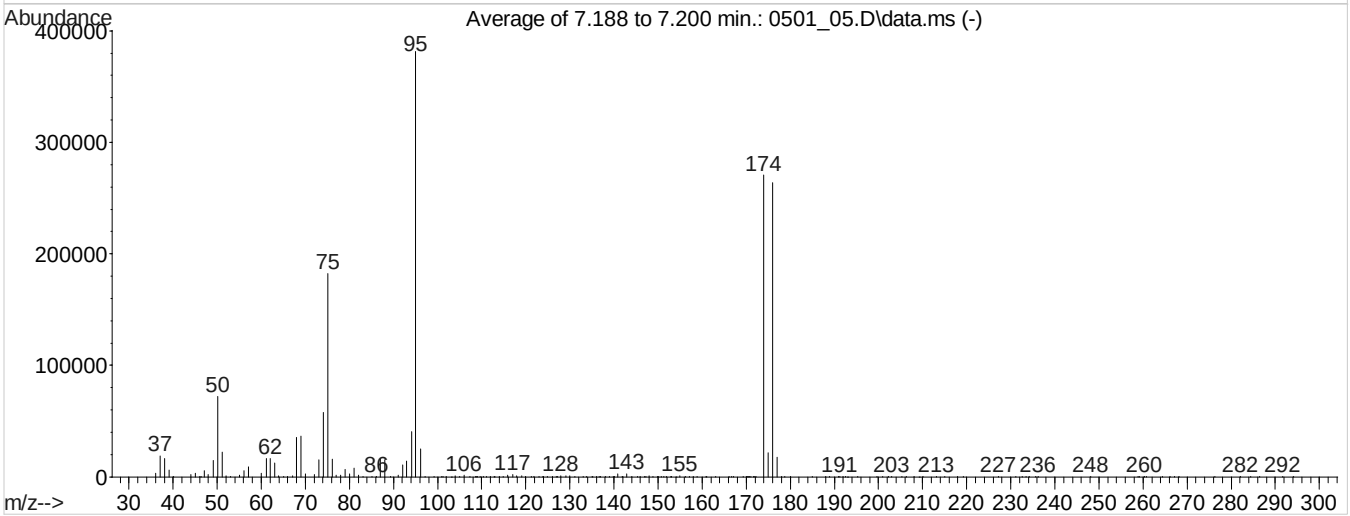
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	72242	PASS
75	95	30	60	47.8	182461	PASS
95	95	100	100	100.0	381659	PASS
96	95	5	9	6.5	24833	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.9	270699	PASS
175	174	5	9	8.0	21588	PASS
176	174	95	101	97.4	263701	PASS
177	176	5	9	6.7	17566	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





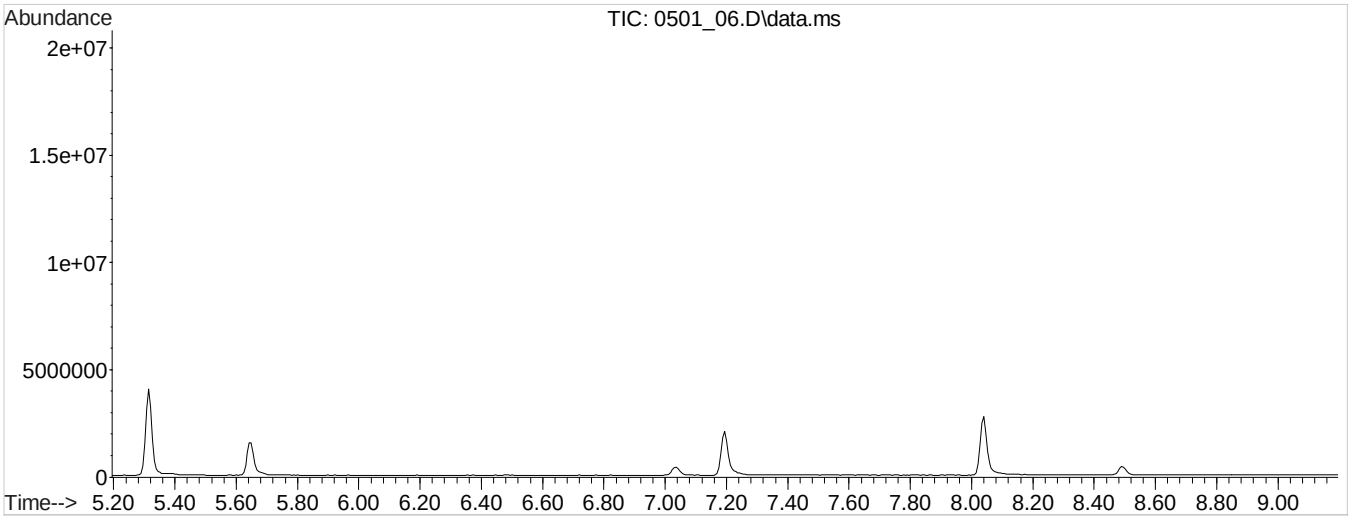
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1161

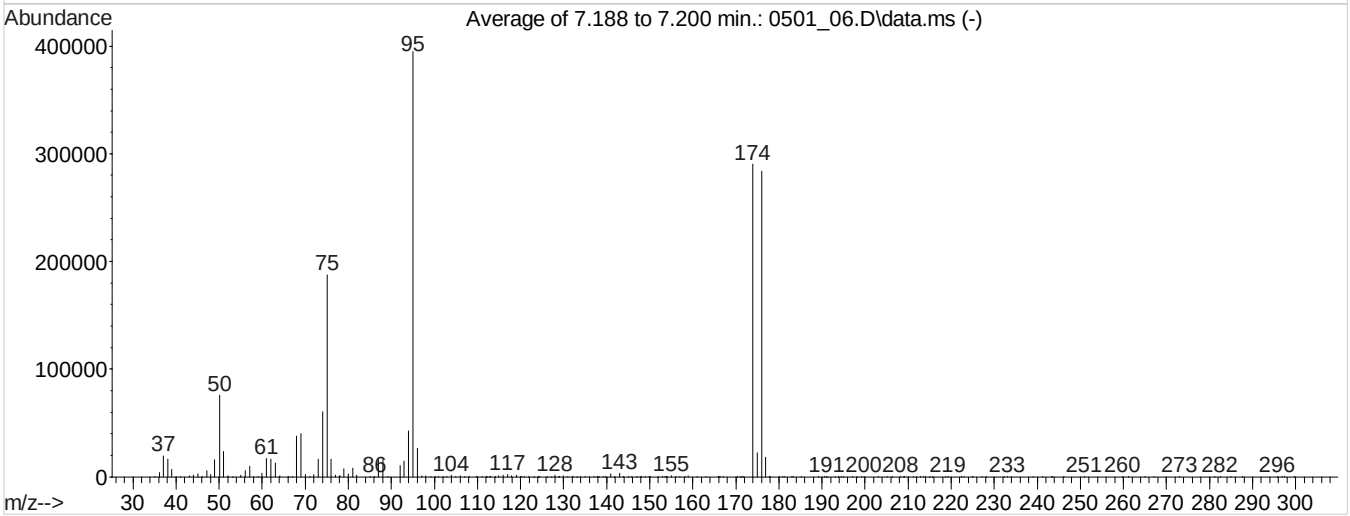
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	72242	PASS
75	95	30	60	47.8	182461	PASS
95	95	100	100	100.0	381659	PASS
96	95	5	9	6.5	24833	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.9	270699	PASS
175	174	5	9	8.0	21588	PASS
176	174	95	101	97.4	263701	PASS
177	176	5	9	6.7	17566	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





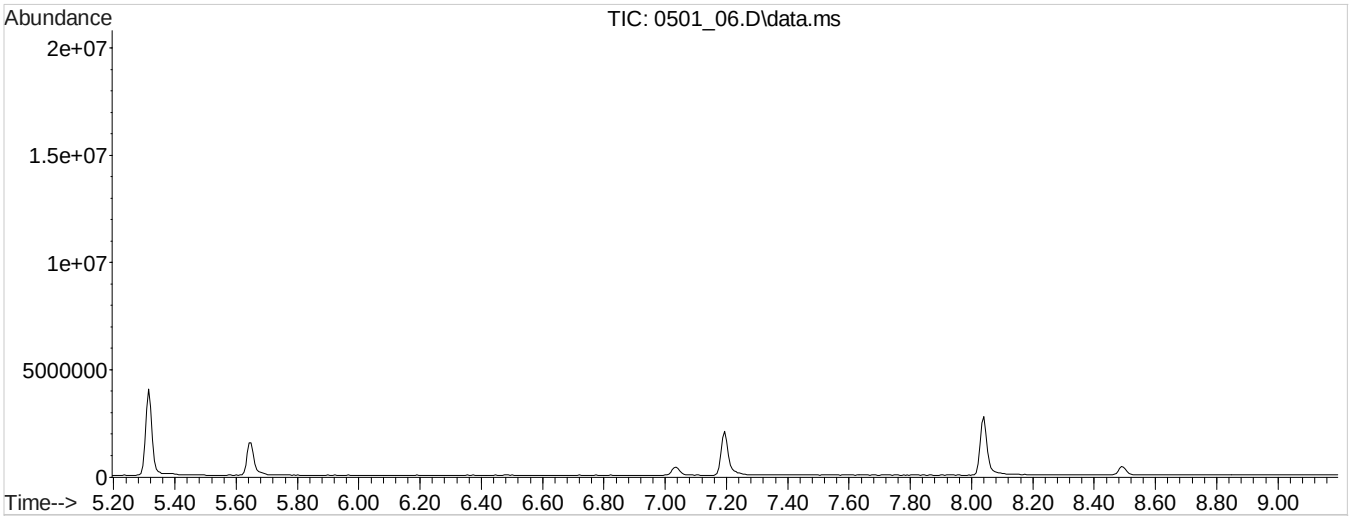
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

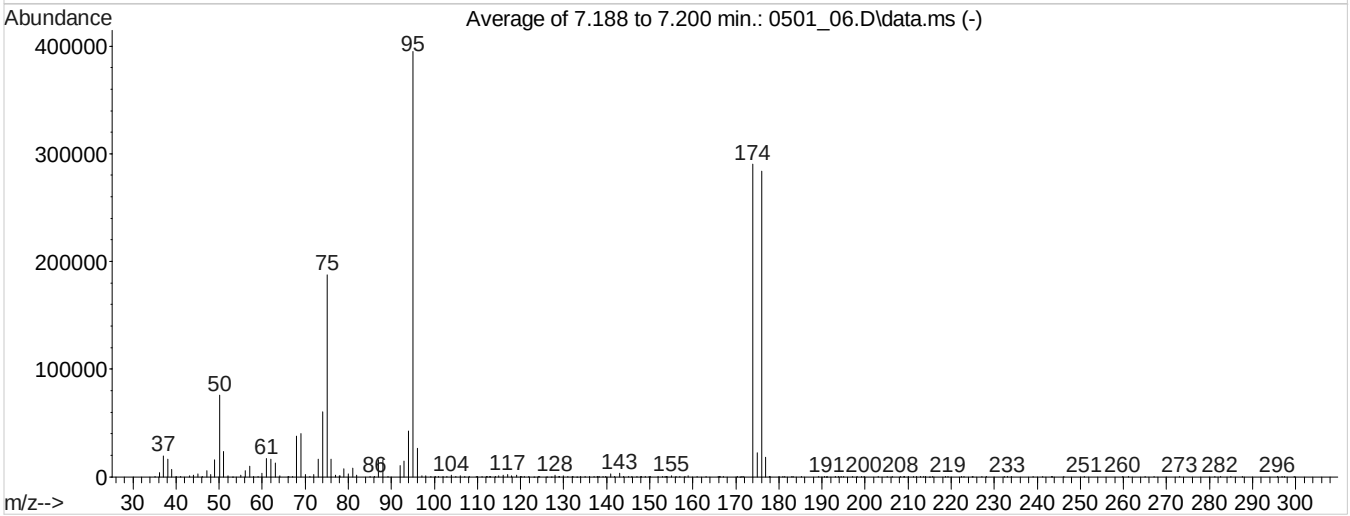
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	75980	PASS
75	95	30	60	47.4	187420	PASS
95	95	100	100	100.0	395133	PASS
96	95	5	9	6.7	26357	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.5	290304	PASS
175	174	5	9	7.6	22195	PASS
176	174	95	101	97.8	284032	PASS
177	176	5	9	6.4	18116	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





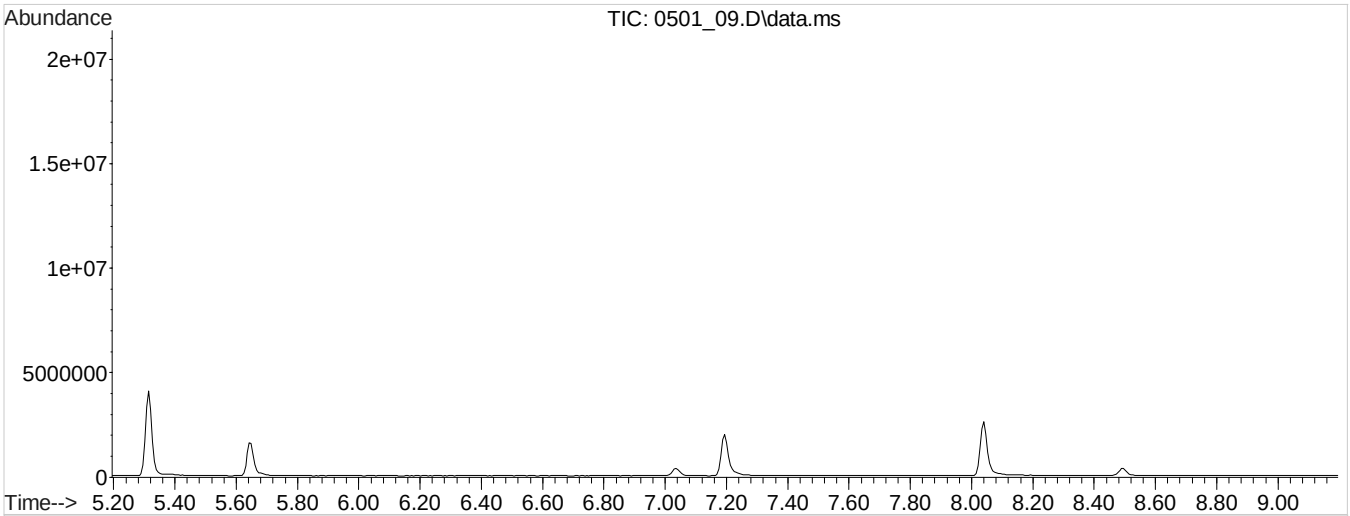
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

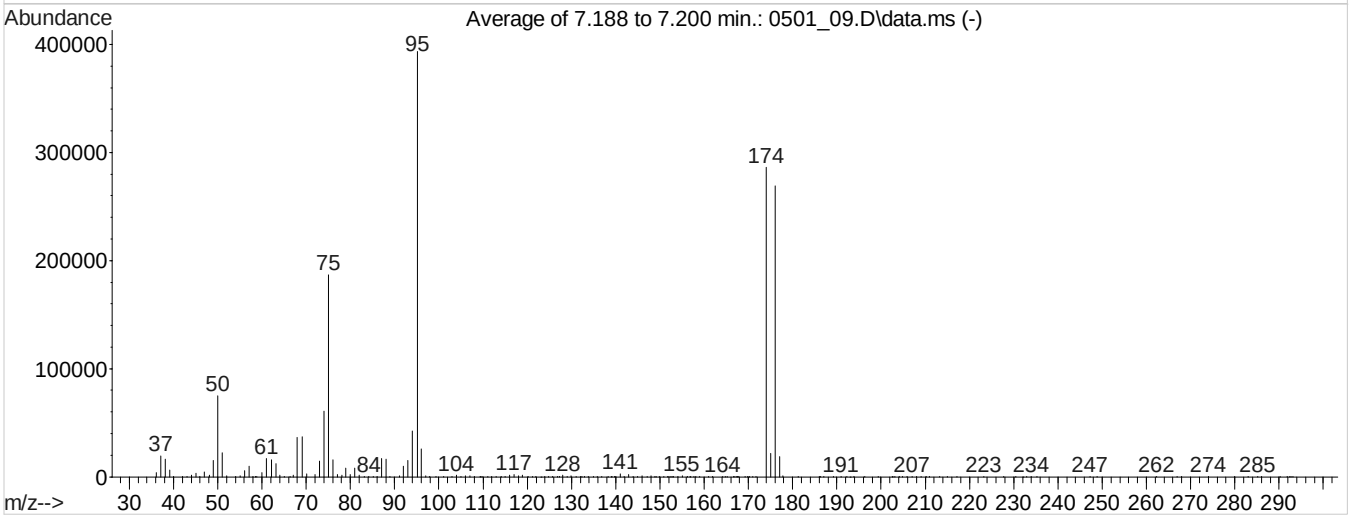
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	75980	PASS
75	95	30	60	47.4	187420	PASS
95	95	100	100	100.0	395133	PASS
96	95	5	9	6.7	26357	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.5	290304	PASS
175	174	5	9	7.6	22195	PASS
176	174	95	101	97.8	284032	PASS
177	176	5	9	6.4	18116	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





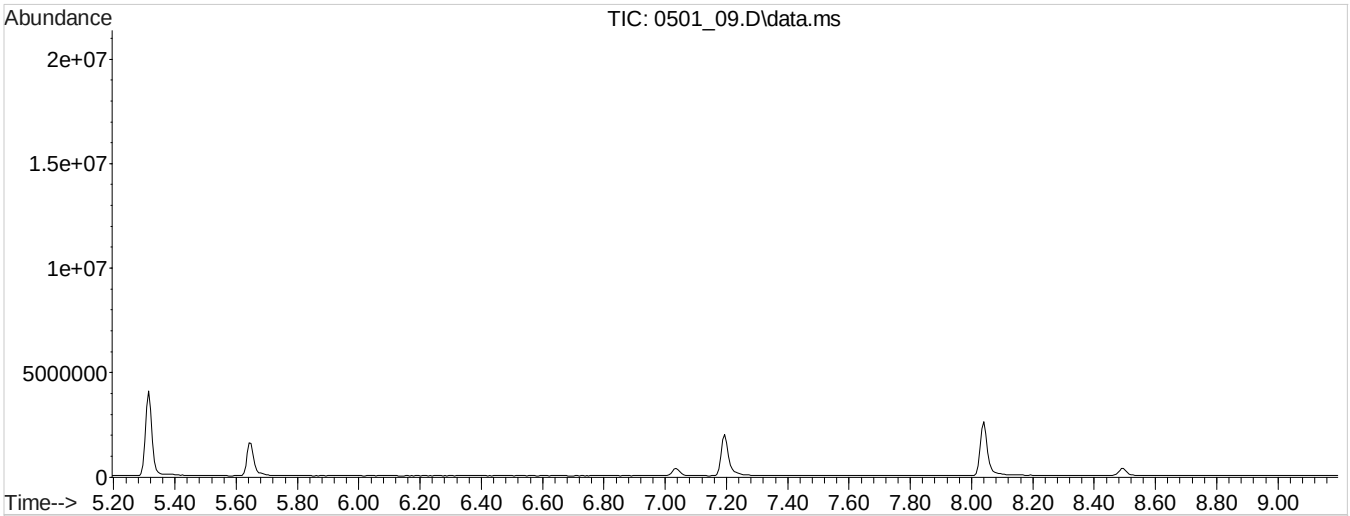
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1158

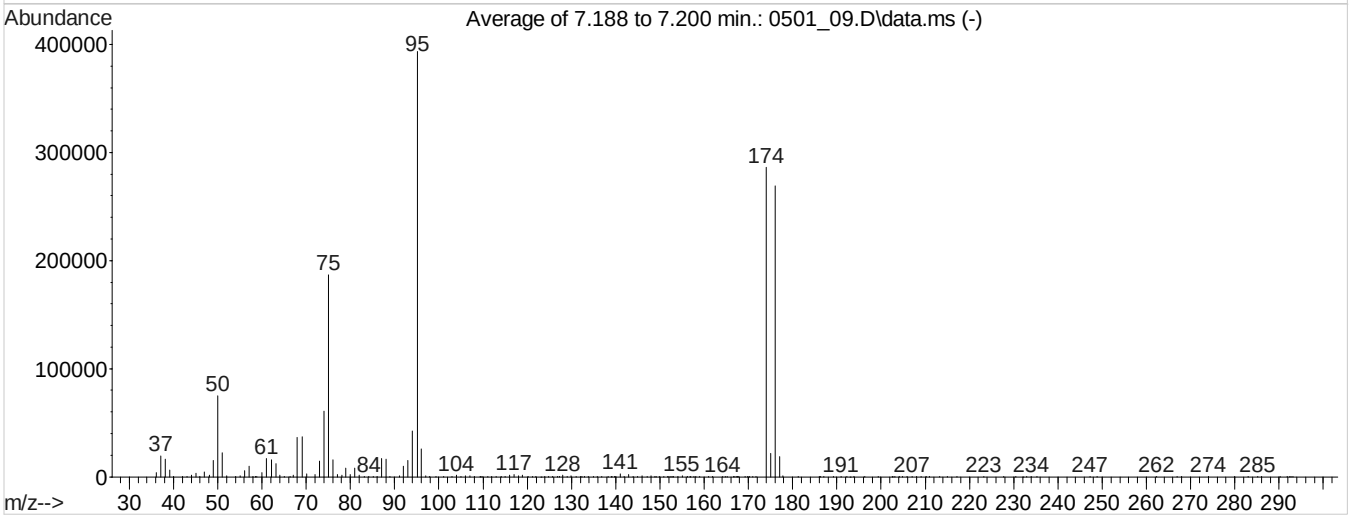
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	74866	PASS
75	95	30	60	47.4	186588	PASS
95	95	100	100	100.0	393637	PASS
96	95	5	9	6.6	25930	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.7	286293	PASS
175	174	5	9	7.7	21925	PASS
176	174	95	101	94.1	269333	FAIL*
177	176	5	9	6.8	18442	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





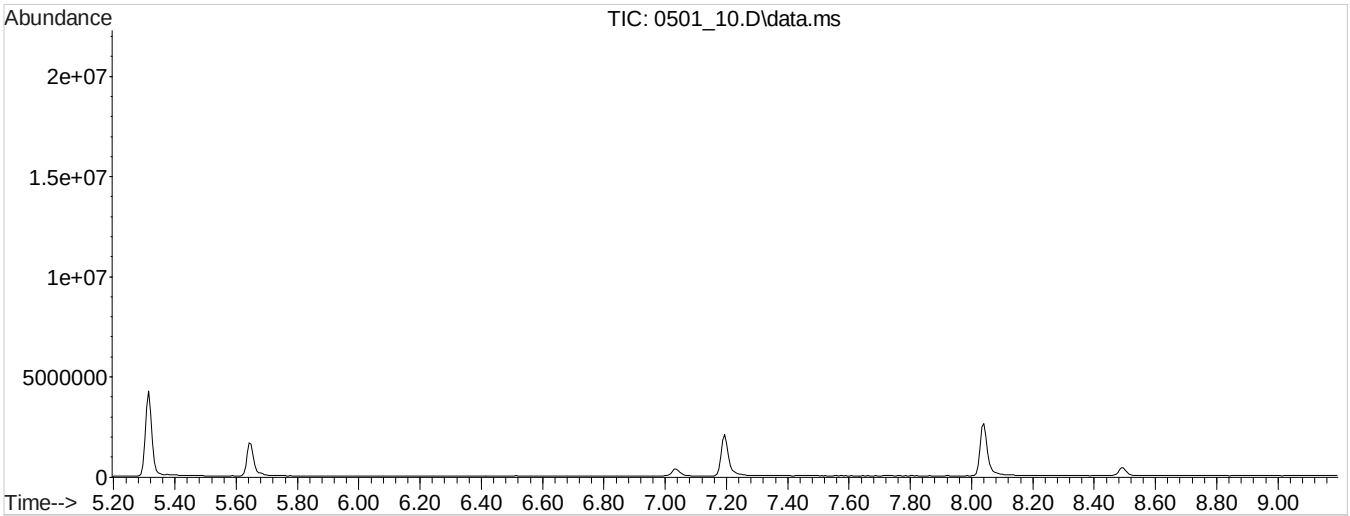
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1158

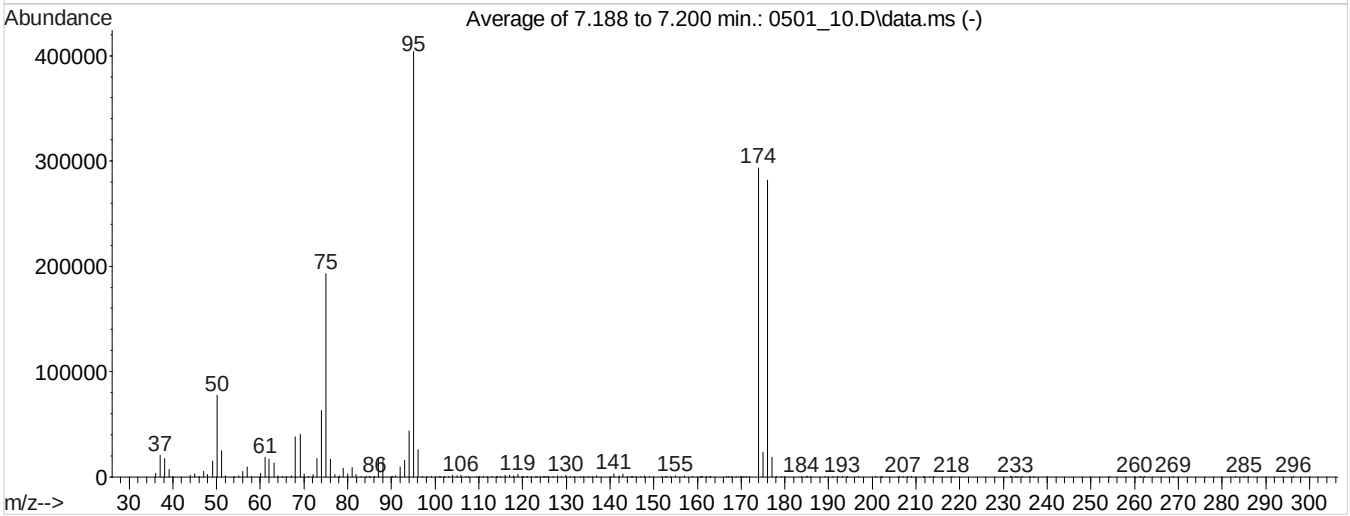
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	74866	PASS
75	95	30	60	47.4	186588	PASS
95	95	100	100	100.0	393637	PASS
96	95	5	9	6.6	25930	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.7	286293	PASS
175	174	5	9	7.7	21925	PASS
176	174	95	101	94.1	269333	FAIL*
177	176	5	9	6.8	18442	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





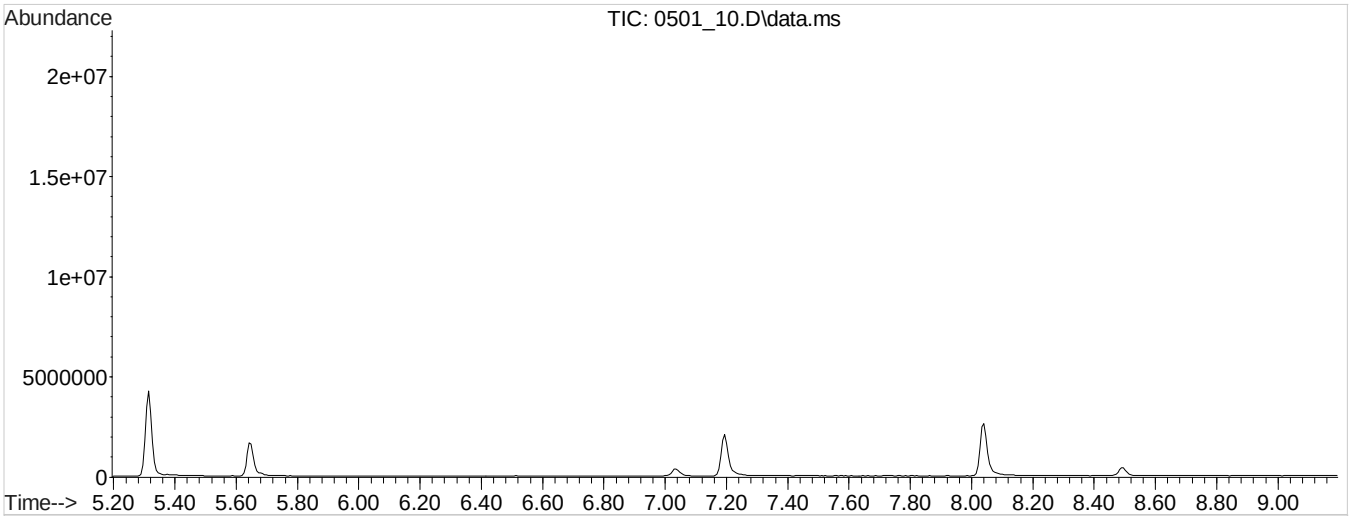
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

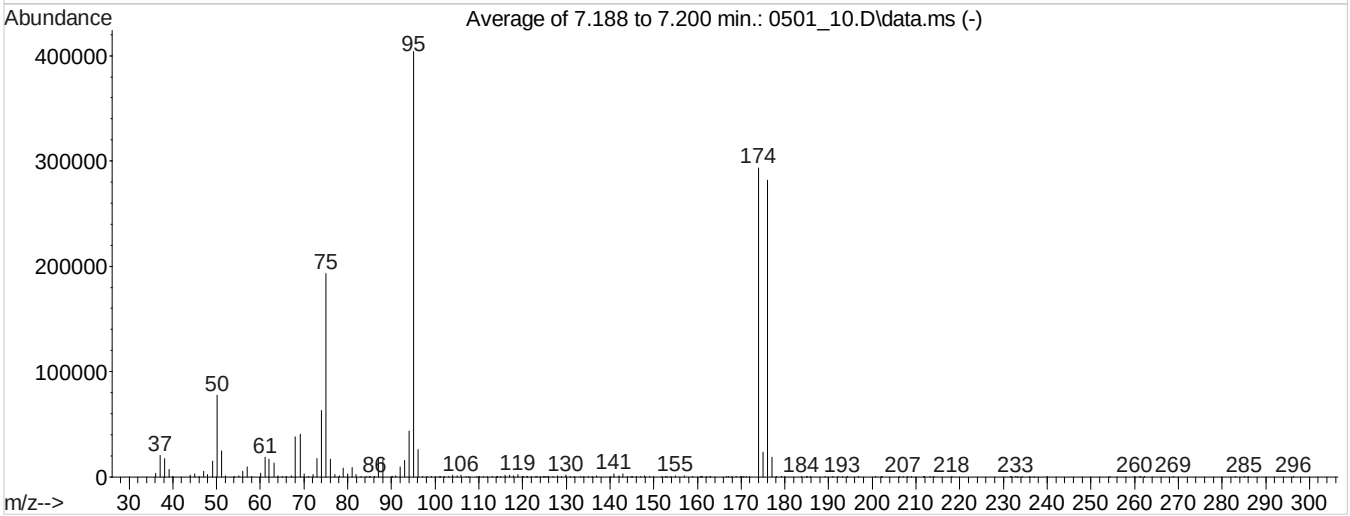
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	77680	PASS
75	95	30	60	47.7	192944	PASS
95	95	100	100	100.0	404232	PASS
96	95	5	9	6.5	26173	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.6	293333	PASS
175	174	5	9	8.0	23461	PASS
176	174	95	101	96.0	281600	PASS
177	176	5	9	6.7	18781	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





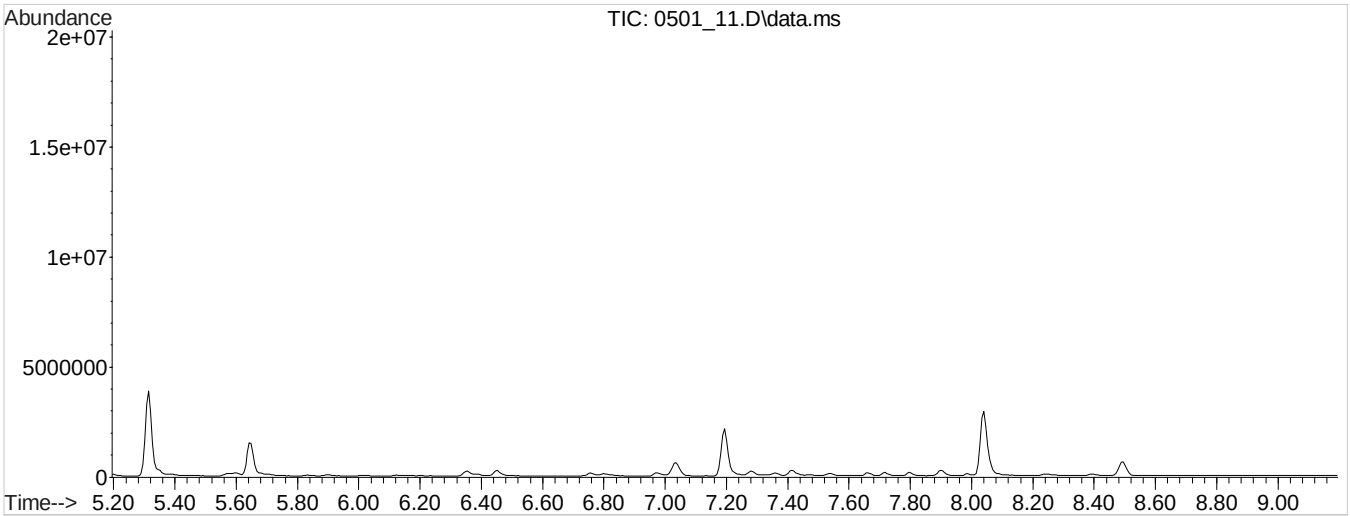
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

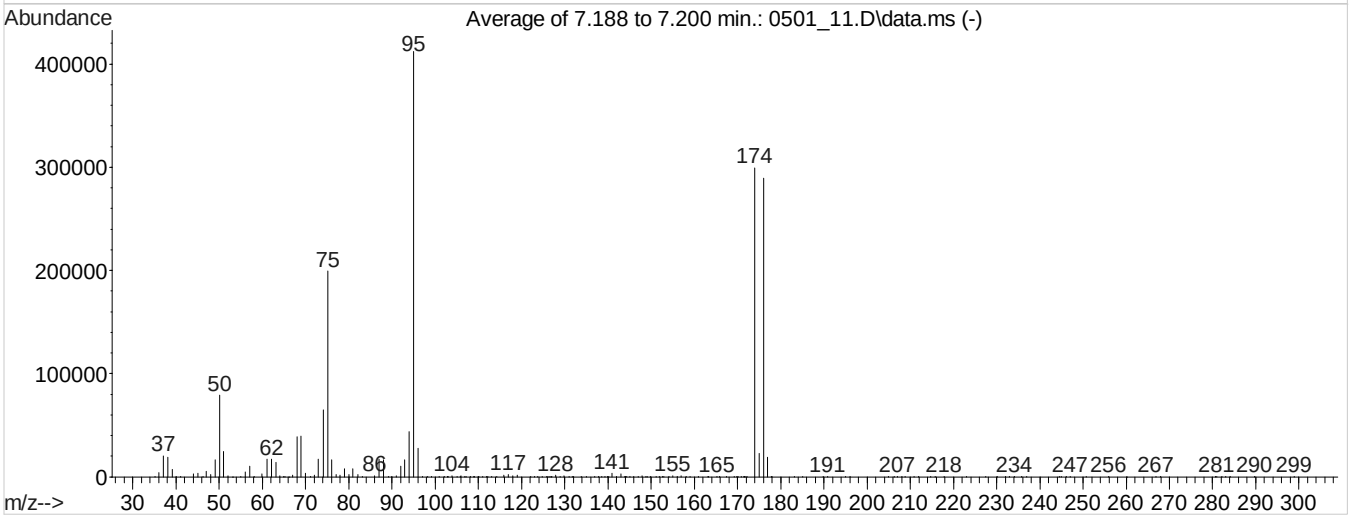
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	77680	PASS
75	95	30	60	47.7	192944	PASS
95	95	100	100	100.0	404232	PASS
96	95	5	9	6.5	26173	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.6	293333	PASS
175	174	5	9	8.0	23461	PASS
176	174	95	101	96.0	281600	PASS
177	176	5	9	6.7	18781	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 11.D
Acq On : 1 May 2015 2:49 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





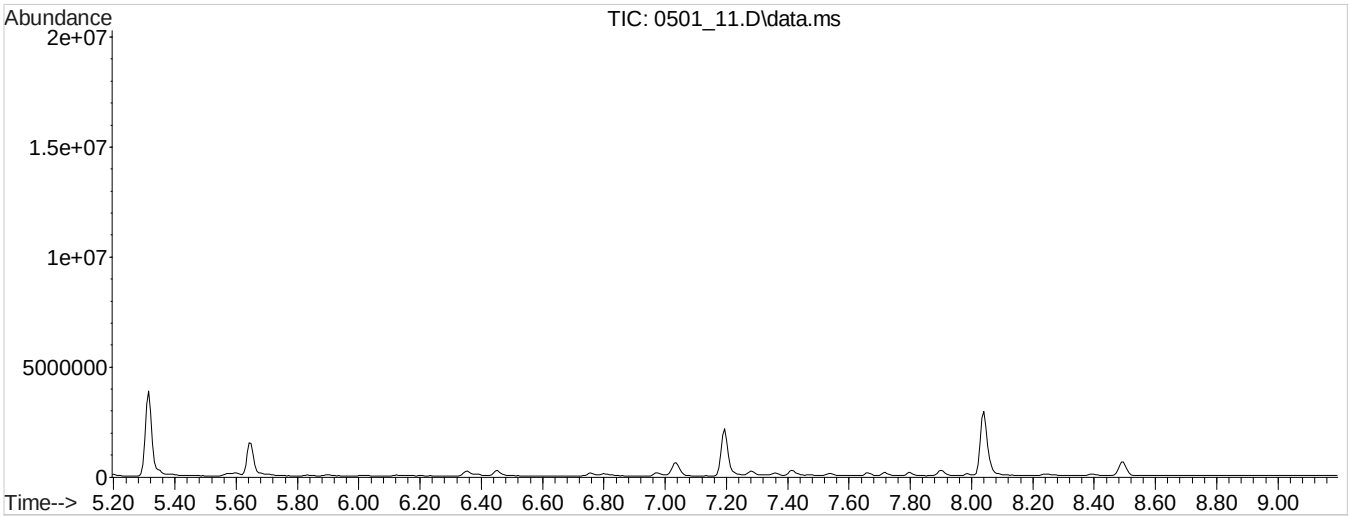
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

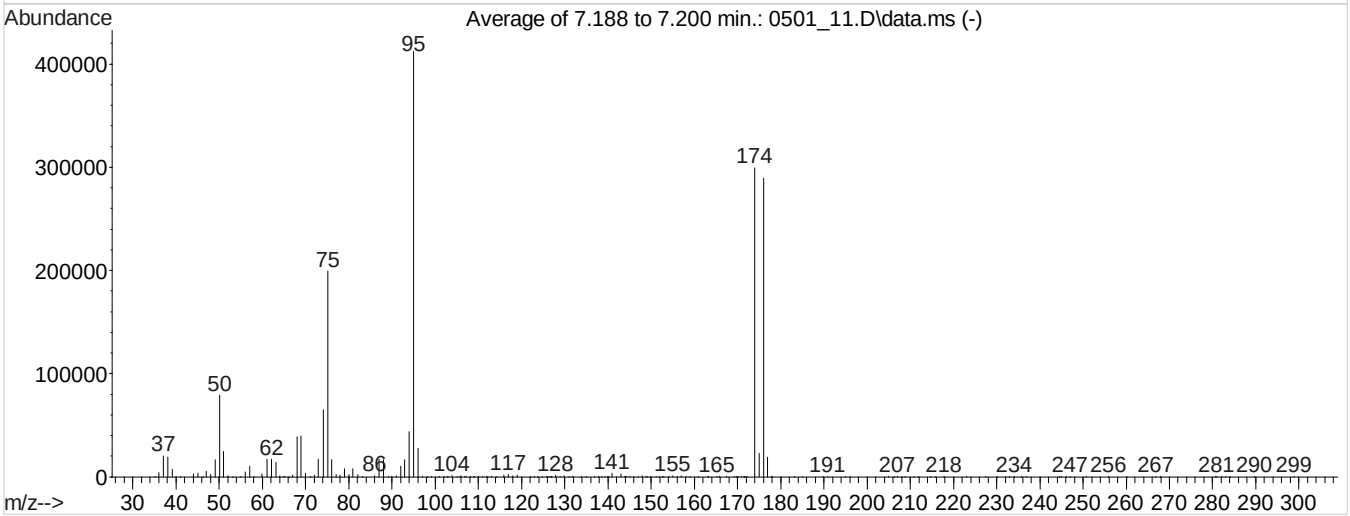
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	78990	PASS
75	95	30	60	48.4	199723	PASS
95	95	100	100	100.0	412330	PASS
96	95	5	9	6.7	27538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.5	299115	PASS
175	174	5	9	7.6	22803	PASS
176	174	95	101	96.7	289195	PASS
177	176	5	9	6.6	19187	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 11.D
Acq On : 1 May 2015 2:49 pm
Operator : 621
Sample : 1 ppb
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818C19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Wed Mar 25 08:40:46 2015





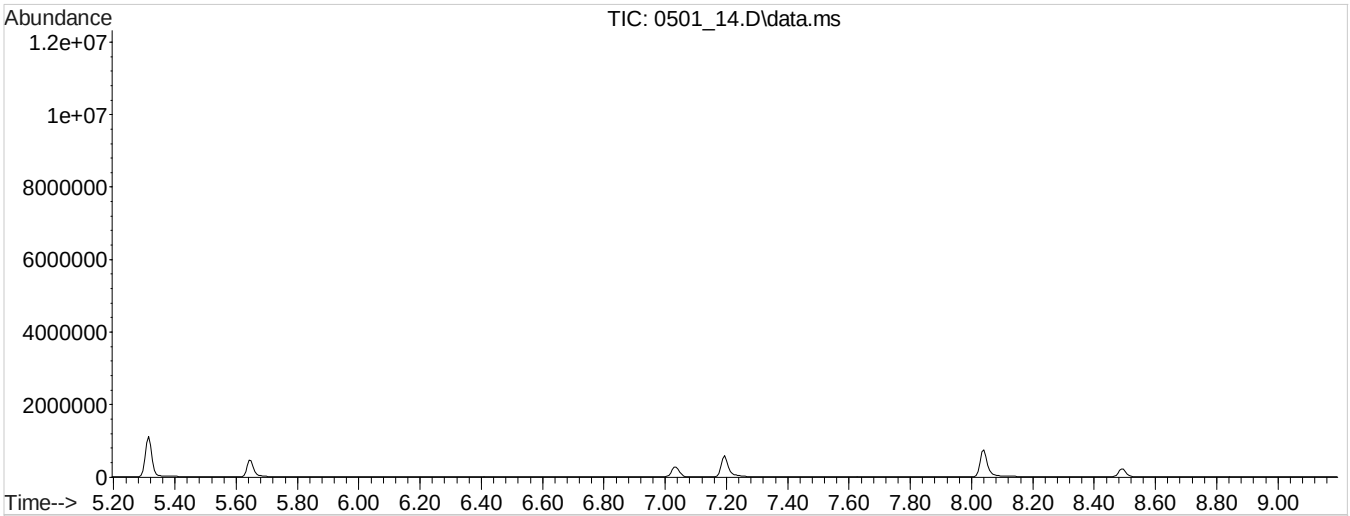
AutoFind: Scans 1168, 1169, 1170; Background Corrected with Scan 1160

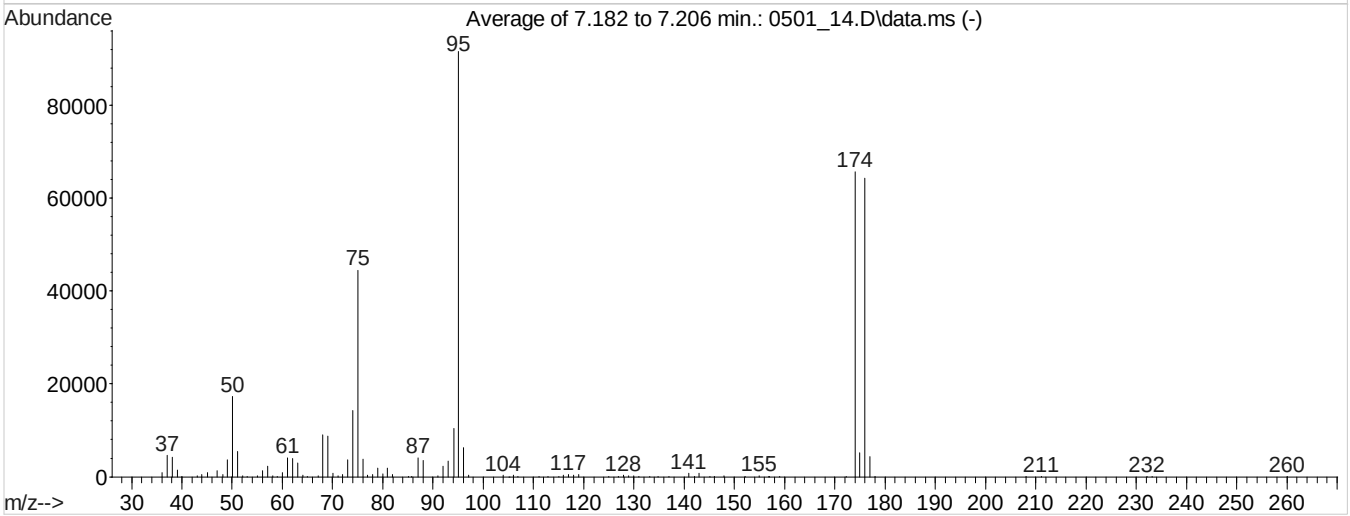
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	78990	PASS
75	95	30	60	48.4	199723	PASS
95	95	100	100	100.0	412330	PASS
96	95	5	9	6.7	27538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	72.5	299115	PASS
175	174	5	9	7.6	22803	PASS
176	174	95	101	96.7	289195	PASS
177	176	5	9	6.6	19187	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818E01O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Sun May 03 15:48:49 2015





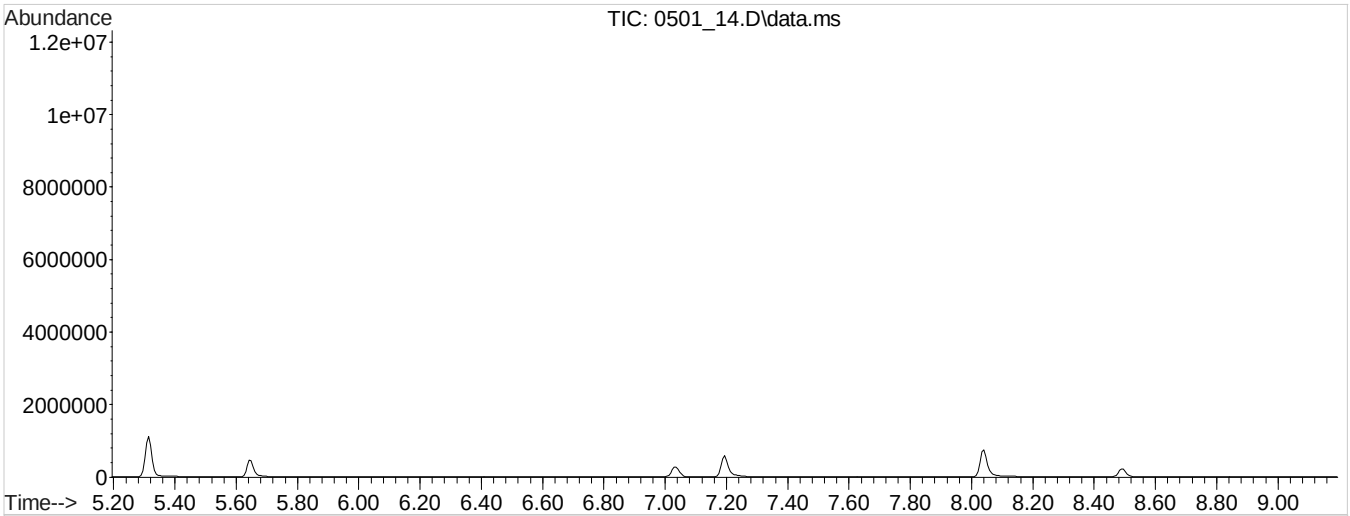
Spectrum Information: Average of 7.182 to 7.206 min.

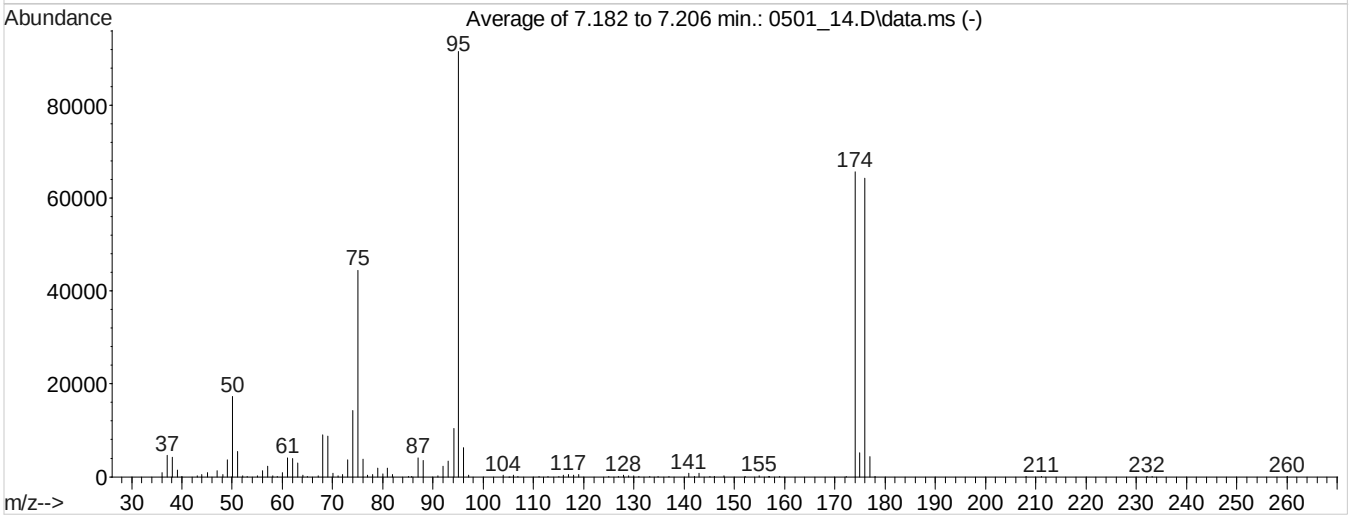
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	17347	PASS
75	95	30	60	48.6	44525	PASS
95	95	100	100	100.0	91629	PASS
96	95	5	9	6.9	6333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	71.7	65698	PASS
175	174	5	9	7.9	5220	PASS
176	174	95	101	97.8	64269	PASS
177	176	5	9	6.8	4348	PASS

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V818E01O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
Last Update : Sun May 03 15:48:49 2015





Spectrum Information: Average of 7.182 to 7.206 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	17347	PASS
75	95	30	60	48.6	44525	PASS
95	95	100	100	100.0	91629	PASS
96	95	5	9	6.9	6333	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	71.7	65698	PASS
175	174	5	9	7.9	5220	PASS
176	174	95	101	97.8	64269	PASS
177	176	5	9	6.8	4348	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:29:33 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:29:33 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1
2,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 624	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:29:33 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:29:33 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1
sec-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:29:33 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1

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ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1
2-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:23:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1

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METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1
1,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	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
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1

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Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1
n-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	1

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1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 601-602	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: EPA	Released On	: 5/3/2015 4:23:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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
ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1
t-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1
2,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1
n-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260SC	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SC	Released On	: 5/3/2015 4:24:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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
ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1
t-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1
1,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1
n-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 6200	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SM 20th	Released On	: 5/3/2015 4:25:58 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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
ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1
t-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	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	: VOCMS18	Review Method	: 8260B	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1
2,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1
n-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260B	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:27:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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
ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1
t-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:28:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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	3254	3468	3667	3661	4259	3574	3504	3184													3571.352	9.21	0.092	1	
PROPENE			0.18	0.154	0.178	0.126	0.117	0.114	0.116	0.11	0.101										0.132764	22.61	0.994	0	
DICHLORODIFLUOROMETHANE	1.02	0.963	0.857	0.809	0.847	0.758	0.734	0.724	0.753	0.736	0.68										0.807365	13.13	0.131	1	0.1
CHLOROMETHANE	1.107	0.943	0.949	0.933	0.993	0.871	0.829	0.81	0.858	0.842	0.787										0.902035	10.45	0.104	1	0.1
VINYL CHLORIDE	1.044	0.984	1.061	1.024	1.127	0.983	0.969	0.953	1	0.981	0.903										1.002527	5.97	0.06	1	0.1
1,3-BUTADIENE			1.076	0.879	0.891	0.764	0.739	0.716	0.756	0.735	0.683										0.804246	15.38	0.154	1	
BROMOMETHANE				0.641	0.701	0.591	0.568	0.549	0.537	0.498	0.416										0.56235	15.44	0.154	1	0.1
CHLOROETHANE			0.237	0.221	0.229	0.192	0.181	0.18	0.183	0.179	0.163										0.196003	13.28	0.133	1	0.1
TRICHLOROFLUOROMETHANE	1.055	1.008	1.039	0.987	1.118	1.003	1	0.995	1.046	1.016	0.939										1.018667	4.5	0.045	1	0.1
DICHLOROFLUOROMETHANE	1.746	1.582	1.48	1.4	1.563	1.35	1.311	1.283	1.337	1.31	1.208										1.415292	11.3	0.113	1	
ETHYL ETHER	0.858	0.735	0.66	0.639	0.644	0.632	0.595	0.575	0.625	0.616	0.568										0.649659	12.71	0.127	1	
ACROLEIN			0.09	0.079	0.093	0.087	0.077	0.074	0.084	0.082	0.074										0.082214	8.46	0.085	1	
1,1-DICHLOROETHENE	1.205	1.297	1.257	1.219	1.288	1.171	1.149	1.123	1.18	1.144	1.056										1.190008	6.13	0.061	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.724	0.686	0.716	0.702	0.763	0.674	0.662	0.661	0.689	0.67	0.624										0.688387	5.41	0.054	1	0.1
ACETONE			0.246	0.216	0.256	0.235	0.209	0.192	0.228	0.228	0.204										0.223746	9.13	0.091	1	0.1
IODOMETHANE	1.039	1.059	1.06	1.025	1.111	1.025	1.03	1.022	1.089	1.078	1.001										1.048907	3.18	0.032	1	
CARBON DISULFIDE	2.959	2.86	2.718	2.634	2.707	2.52	2.425	2.458	2.562	2.524	2.327										2.608562	7.28	0.073	1	0.1
METHYLENE CHLORIDE			1.001	0.802	0.81	0.714	0.705	0.687	0.727	0.718	0.667										0.758907	13.53	0.135	1	0.1
ACRYLONITRILE	0.205	0.195	0.205	0.182	0.221	0.215	0.195	0.183	0.211	0.209	0.188										0.200756	6.52	0.065	1	
n-Hexane		0.949	0.799	0.776	0.841	0.743	0.729	0.705	0.756	0.732	0.69										0.772032	9.88	0.099	1	
TRANS-1,2-DICHLOROETHENE	1.001	0.895	0.813	0.754	0.794	0.722	0.729	0.719	0.749	0.737	0.692										0.782261	11.72	0.117	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:28:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	2.115	1.932	1.953	1.849	2.01	1.893	1.809	1.733	1.884	1.872	1.719										1.887984	6.11	0.061	1	0.1
1,1-DICHLOROETHANE	1.271	1.328	1.34	1.334	1.425	1.311	1.336	1.304	1.365	1.342	1.249										1.327731	3.49	0.035	1	0.2
VINYL ACETATE	1.231	1.213	1.16	1.127	1.289	1.29	1.15	1.255	1.371	1.175	1.039										1.209088	7.62	0.076	1	
DI-ISOPROPYL ETHER	2.794	2.609	2.596	2.483	2.603	2.475	2.493	2.414	2.596	2.557	2.379										2.54542	4.5	0.045	1	
1,2-Dichloropropane		1.108	0.984	0.968	0.964	0.884	0.841	0.821	0.823	0.8	0.692										0.888322	13.38	0.134	1	
CIS-1,2-DICHLOROETHENE	0.968	0.931	0.831	0.787	0.829	0.77	0.762	0.753	0.794	0.781	0.73										0.812438	9.18	0.092	1	0.1
2-BUTANONE (MEK)	0.231	0.253	0.287	0.312	0.364	0.355	0.327	0.288	0.346	0.346	0.314										0.311189	13.77	0.138	1	0.1
BROMOCHLOROMETHANE	0.402	0.358	0.428	0.41	0.427	0.41	0.402	0.393	0.417	0.414	0.385										0.404141	4.96	0.05	1	
TETRAHYDROFURAN			0.189	0.218	0.252	0.248	0.173	0.184	0.202	0.199	0.182										0.205328	13.93	0.139	1	
CHLOROFORM	1.525	1.379	1.367	1.293	1.344	1.232	1.215	1.192	1.261	1.243	1.155										1.291466	8.18	0.082	1	0.2
DIBROMOFLUOROMETHANE	0.479	0.487	0.48	0.474	0.496	0.483	0.483	0.49	0.497	0.499	0.493										0.487356	1.7	0.017	1	
1,1,1-TRICHLOROETHANE	1.46	1.219	1.147	1.097	1.161	1.062	1.048	1.032	1.078	1.058	0.978										1.12165	11.64	0.116	1	0.1
CARBON TETRACHLORIDE	1.056	0.893	0.914	0.905	0.979	0.892	0.891	0.864	0.912	0.891	0.834										0.911955	6.5	0.065	1	0.1
1,1-Dichloropropene	1.095	1.16	1.135	1.095	1.192	1.09	1.076	1.062	1.109	1.086	1.011										1.101066	4.43	0.044	1	
2,2,4-TRIMETHYLPENTANE	3.77	3.318	3.473	3.381	3.563	3.311	3.207	3.098	3.193	3.115	2.902										3.302973	7.3	0.073	1	
HEPTANE	1.668	1.53	1.47	1.427	1.54	1.406	1.476	1.414	1.647	1.497	1.93										1.545771	9.96	0.1	1	
BENZENE	2.963	3.198	3.238	3.07	3.253	3.022	3	2.92	3.124	3.061	2.879										3.066151	4.11	0.041	1	0.5
1,2-DICHLOROETHANE	0.781	0.846	0.87	0.843	0.865	0.851	0.835	0.804	0.86	0.837	0.771										0.832961	4	0.04	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.496	0.427	0.457	0.44	0.46	0.435	0.434	0.419	0.436	0.431	0.398										0.439315	5.71	0.057	1	0.2
1,2-DICHLOROPROPANE	0.367	0.329	0.313	0.314	0.322	0.312	0.31	0.3	0.322	0.311	0.287										0.316984	6.36	0.064	1	0.1
DIBROMOMETHANE	0.287	0.216	0.215	0.217	0.232	0.213	0.209	0.199	0.215	0.211	0.192										0.218859	11.32	0.113	1	

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:28:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.776	0.572	0.626	0.577	0.592	0.553	0.547	0.529	0.567	0.554	0.509										0.582004	12.27	0.123	1	0.2
a,a,a-Trifluorotoluene	0.551	0.546	0.553	0.543	0.545	0.534	0.533	0.527	0.531	0.511	0.497										0.533715	3.24	0.032	1	
-CHLOROETHYL VINYL ETHER	0.207	0.201	0.211	0.229	0.249	0.255	0.25	0.225	0.268	0.251	0.227										0.23392	9.36	0.094	1	
CIS-1,3-DICHLOROPROPENE	0.724	0.652	0.678	0.671	0.711	0.693	0.698	0.666	0.721	0.698	0.643										0.686787	3.94	0.039	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.144	0.128	0.138	0.134	0.16	0.16	0.147	0.134	0.159	0.153	0.137										0.144961	8.05	0.081	1	0.1
TOLUENE-D8	1.233	1.224	1.225	1.237	1.215	1.219	1.204	1.176	1.193	1.157	1.111										1.199456	3.19	0.032	1	
TOLUENE		2.207	2.187	2.039	2.053	1.931	1.921	1.829	1.96	1.876	1.729										1.973222	7.66	0.077	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.164	0.12	0.141	0.146	0.142	0.144	0.137	0.156	0.149	0.141										0.144122	8	0.08	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE		2.36	2.154	2.106	2.118	2.122	2.061	1.929	2.155	2.092	1.896										2.099261	6.09	0.061	1	0.1
TETRACHLOROETHENE	2.459	2.23	2.124	2.085	2.196	2.128	2.083	2.035	2.202	2.179	2.045										2.160618	5.49	0.055	1	0.2
1,3-Dichloropropane	4.118	3.797	3.759	3.788	3.858	3.886	3.8	3.51	3.946	3.834	3.48										3.79791	4.73	0.047	1	
2-HEXANONE				0.615	0.901	0.938	0.876	0.792	0.965	0.925											0.858879	14.1	0.141	1	0.1
CHLORODIBROMOMETHANE	1.82	2.098	2.166	2.12	2.28	2.285	2.227	2.138	2.383	2.319	2.14										2.179698	6.91	0.069	1	0.1
1,2-DIBROMOETHANE	1.995	1.86	2.086	1.799	1.999	2.09	1.983	1.864	2.092	2.046	1.852										1.969676	5.48	0.055	1	0.1
CHLOROBENZENE	6.599	7	7.388	7.158	7.501	7.278	7.326	7.072	7.728	7.61	7.114										7.252049	4.34	0.043	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.438	2.323	2.457	2.202	2.466	2.339	2.316	2.255	2.409	2.394	2.186										2.34418	4.22	0.042	1	
ETHYLBENZENE	4.609	4.364	4.441	4.421	4.45	4.241	4.273	4.192	4.573	4.476	4.238										4.389044	3.18	0.032	1	0.1
M&P-XYLENE	6.093	5.519	5.629	5.257	5.39	5.258	5.177	5.091	5.543	5.408	5.056										5.402058	5.46	0.055	1	0.1
O-XYLENE	5.125	5.249	5.212	4.879	5.189	4.981	4.981	4.871	5.19	5.165	4.795										5.05788	3.18	0.032	1	0.3
STYRENE	7.993	7.341	7.631	7.507	7.551	7.833	7.843	7.642	8.412	8.239	7.732										7.793097	4.11	0.041	1	0.3
Bromoform		1.316	1.242	1.317	1.393	1.376	1.33	1.284	1.457	1.426	1.293										1.343459	5.04	0.05	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:28:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	14.35	13.42	13.66	13.95	14.45	13.53	13.42	13.11	14.1	13.96	12.74										13.69766	3.82	0.038	1	0.1
4-BROMOFLUOROBENZENE	2.656	2.697	2.685	2.621	2.701	2.716	2.738	2.731	2.82	2.826	2.766										2.723305	2.32	0.023	1	
Bromobenzene	6.543	5.313	5.626	5.501	5.666	5.542	5.483	5.398	5.916	5.908	5.592										5.680802	6.01	0.06	1	
1,1,2,2-TETRACHLOROETHANE	3.628	3.248	2.905	2.521	2.947	2.713	2.598	2.494	2.797	2.701	2.429										2.81641	12.72	0.127	1	0.3
1,2,3-TRICHLOROPROPANE		0.814	0.659	0.698	0.803	0.781	0.734	0.69	0.775	0.768	0.679										0.740078	7.5	0.075	1	
TRANS-1,4-DICHLORO-2-BUTENE			0.633	0.587	0.539	0.602	0.652	0.632	0.758	0.773	0.697										0.652461	11.91	0.119	1	
n-Propylbenzene	15.47	16.27	16.22	15.3	16.79	15.84	15.86	15.68	16.92	16.65	15.42										16.03722	3.55	0.036	1	
4-ETHYLTOLUENE	12.75	12.44	12.64	12.27	13.45	12.76	12.78	12.73	13.56	13.41	12.39										12.8333	3.46	0.035	1	
2-Chlorotoluene	2.935	2.689	3.034	2.691	2.887	2.783	2.78	2.755	2.986	2.973	2.83										2.849286	4.24	0.042	1	
4-Chlorotoluene	8.854	8.577	8.808	8.306	9.347	8.933	8.868	8.972	9.634	9.537	8.9										8.975951	4.39	0.044	1	
1,3,5-Trimethylbenzene	11.66	12.24	11.48	10.39	11.55	11.07	10.98	10.85	11.68	11.62	10.75										11.29921	4.72	0.047	1	
tert-Butylbenzene	9.42	9.34	9.58	9.02	10.03	9.35	9.27	9.08	9.73	9.62	8.809999										9.38461	3.7	0.037	1	
1,2,4-Trimethylbenzene	12.16	12.04	11.31	10.5	11.2	10.73	10.65	10.6	11.33	11.26	10.44										11.10968	5.34	0.053	1	
sec-Butylbenzene	13.44	15.78	15.21	14.8	15.74	14.98	14.83	14.42	15.58	15.31	13.89										14.90843	5.02	0.05	1	
1,3-DICHLOROBENZENE	5.026	4.843	5.399	4.783	5.505	5.293	5.285	5.298	5.65	5.694	5.309										5.280494	5.61	0.056	1	0.6
p-Isopropyltoluene	11.38	12.36	11.7	11.47	12.51	11.98	11.98	11.66	12.53	12.47	11.48										11.95713	3.75	0.037	1	
DICYCLOPENTADIENE	13.75	13.08	14.08	13.08	14.78	13.86	13.84	13.51	14.58	14.41	13.22										13.83472	4.27	0.043	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	2.261	2.265	2.283	2.045	2.109	2.026	1.977	1.949	2.101	2.07	1.967										2.09587	5.87	0.059	1	
1,2,3-TRIMETHYLBENZENE	4.446	4.259	4.402	4.072	4.269	4.246	4.12	3.972	4.281	4.189	3.891										4.195189	4.05	0.041	1	
1,2-DICHLOROBENZENE	1.759	1.652	1.872	1.866	1.988	1.916	1.827	1.796	1.915	1.877	1.74										1.837166	5.18	0.052	1	0.4
n-Butylbenzene	3.91	4.252	3.908	3.909	4.361	4.227	4.161	4.09	4.297	4.166	3.813										4.099339	4.54	0.045	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
1,2-Dibromo-3-chloropropane			0.177	0.161	0.2	0.201	0.178	0.168	0.196	0.188	0.167										0.181828	8.28	0.083	1	0.05
1,2,4-Trichlorobenzene	0.745	1.014	1.021	1.014	1.258	1.205	1.153	1.154	1.237	1.217	1.114										1.102846	13.49	0.135	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.624	0.687	0.681	0.659	0.749	0.696	0.673	0.64	0.678	0.656	0.583										0.665975	6.36	0.064	1	
Naphthalene	2.931	3.126	2.726	2.697	3.274	3.219	3	2.835	3.208	3.157	2.785										2.996257	7.1	0.071	1	
1,2,3-Trichlorobenzene	0.937	0.971	1.095	0.961	1.201	1.162	1.083	1.054	1.14	1.115	0.996										1.064917	8.29	0.083	1	
1-Methylnaphthalene				1.265	1.618	1.688	1.635	1.596	1.779	1.765	1.503										1.606157	10.24	0.102	1	
2-Methylnaphthalene			1.277	1.211	1.638	1.612	1.444	1.38	1.482	1.447	1.211										1.411309	11.16	0.112	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.006	0.007	0.006	0.006	0.007	0.006	0.004	0.007	0.007	0.006161	14.31	0.143	1	
Bromoethane												0.631	0.577	0.595	0.586	0.606	0.567	0.591	0.557	0.571	0.58682	3.83	0.038	1	
2-PROPANOL												0.067	0.045	0.035	0.034	0.035	0.032				0.041218	32.57	0.995	0	
Methyl Acetate												0.47	0.442	0.437	0.426	0.474	0.42	0.466	0.448	0.427	0.445643	4.56	0.046	1	0.1
ACETONITRILE												0.065	0.056	0.057	0.057	0.065	0.056	0.059	0.065	0.062	0.060219	6.58	0.066	1	
ALLYL CHLORIDE												0.404	0.401	0.391	0.392	0.411	0.374	0.393	0.377	0.384	0.391819	3.1	0.031	1	
tert-BUTYL ALCOHOL												0.095	0.086	0.075	0.069	0.086	0.069	0.074	0.079	0.074	0.078526	11.2	0.112	1	
chloroprene												1.209	1.192	1.162	1.167	1.229	1.131	1.175	1.126	1.144	1.170687	2.97	0.03	1	
ETHYL TERT-BUTYL ETHER												2.294	2.283	2.241	2.122	2.285	2.141	2.166	2.111	2.114	2.195122	3.63	0.036	1	
PROPIONITRILE												0.082	0.075	0.075	0.074	0.084	0.074	0.082	0.082	0.077	0.078281	5.06	0.051	1	
Ethyl Acetate												0.54	0.52	0.505	0.488	0.551	0.506	0.541	0.545	0.493	0.521078	4.6	0.046	1	
METHACRYLONITRILE												0.258	0.242	0.24	0.232	0.259	0.235	0.254	0.25	0.237	0.245	4.26	0.043	1	
Cyclohexane												1.379	1.285	1.266	1.263	1.301	1.216	1.265	1.203	1.221	1.266429	4.21	0.042	1	0.1
tert-butyl formate												0.593	0.584	0.579	0.563	0.615	0.561	0.596	0.577	0.574	0.582309	2.91	0.029	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

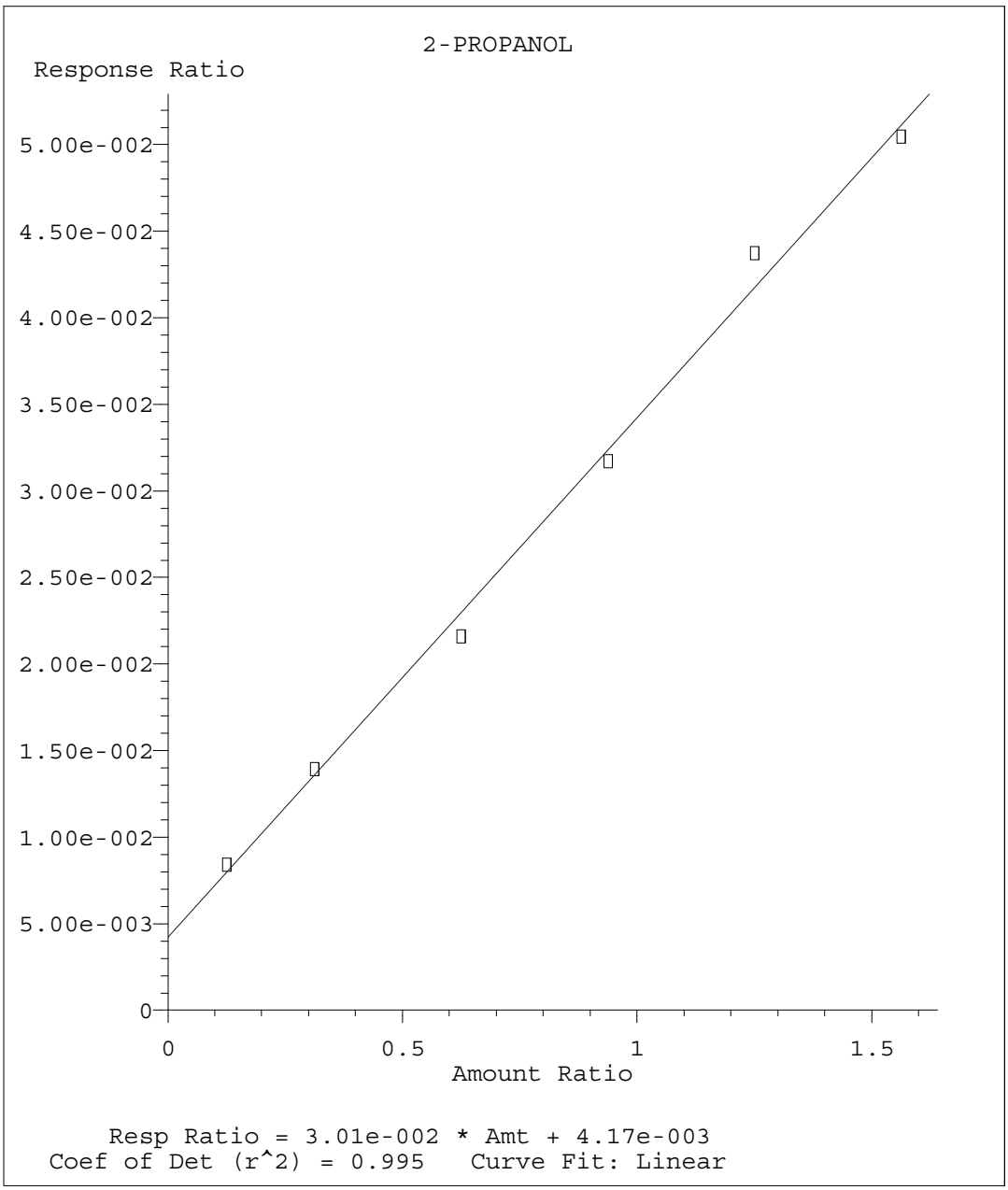
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS18	Review Method	: 8260C	Released By	: Ben Baker
Method	: V818E01O	Review Protocol	: SW846	Released On	: 5/3/2015 4:28:20 PM

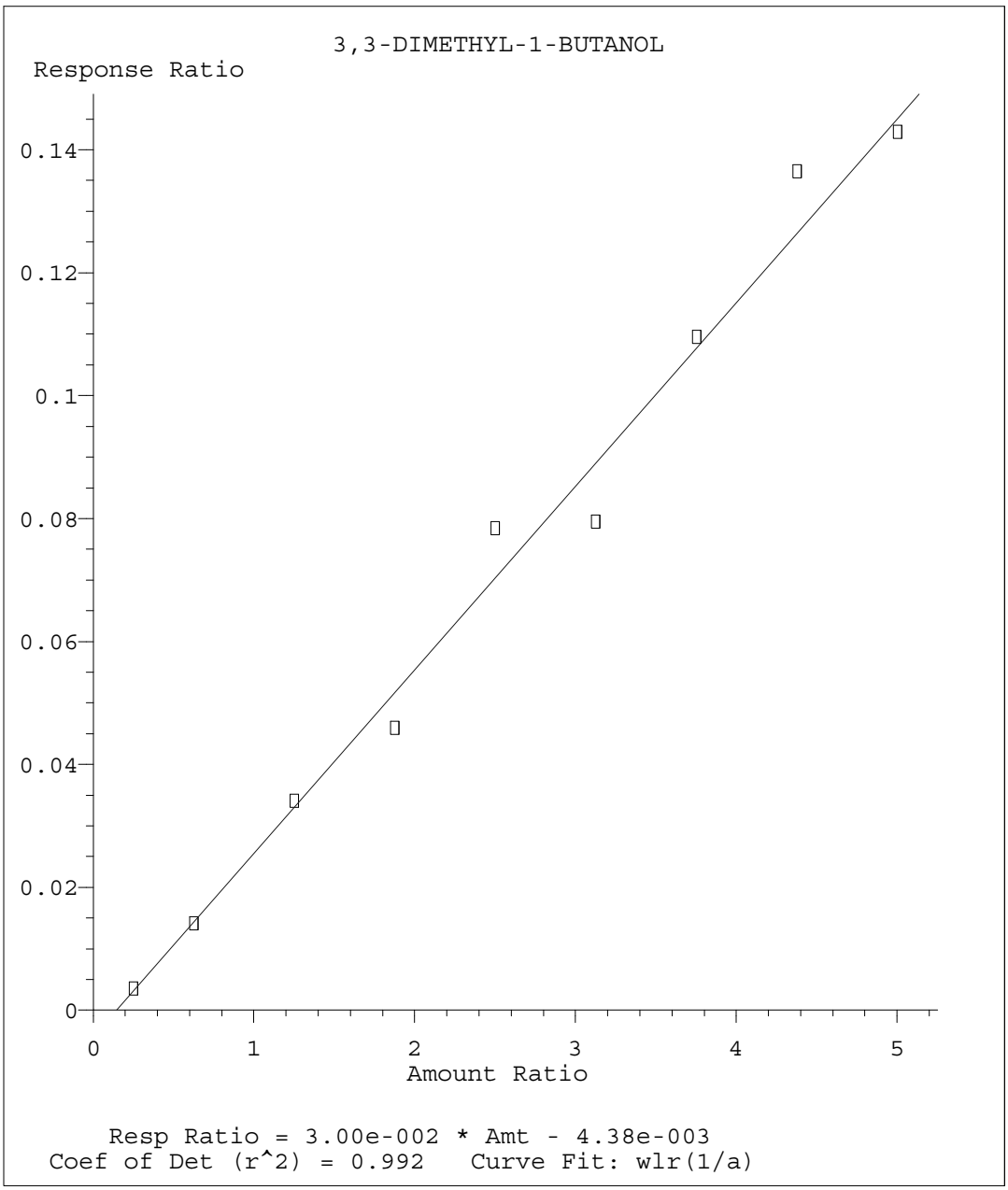
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V818E01O -- ICal Updated Time: Sun May 03 15:48:49 2015

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
ISOBUTANOL												0.041	0.037	0.036	0.035	0.038	0.033	0.039	0.038	0.037	0.037243	6.06	0.061	1	
2-Amyl Alcohol												0.072	0.063	0.063	0.054	0.055	0.053	0.06	0.059	0.052	0.059062	10.75	0.108	1	
TERT-AMYL METHYL ETHER												2.192	2.048	2.005	1.904	2.093	1.92	2.024	1.958	1.951	2.010763	4.56	0.046	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.009	0.01	0.01	0.009	0.012	0.01	0.011	0.012	0.011	0.010363	9.27	0.093	1	
Methyl Cyclohexane												1.403	1.08	0.974	0.938	0.951	0.887	0.914	0.888	0.882	0.990833	16.79	0.999	0	0.1
2-nitropropane												0.105	0.1	0.1	0.097	0.11	0.1	0.108	0.11	0.1	0.103258	4.8	0.048	1	
METHYL METHACRYLATE												0.317	0.318	0.31	0.295	0.329	0.313	0.322	0.334	0.298	0.315012	4.14	0.041	1	
1,4-DIOXANE												0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003241	6.45	0.064	1	
n-octane												0.483	0.459	0.452	0.441	0.473	0.449	0.455	0.466	0.445	0.458164	2.98	0.03	1	
3,3-DIMETHYL-1-BUTANOL												0.014	0.023	0.027	0.024	0.031	0.025	0.029	0.031	0.029	0.025982	20.92	0.992	0	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												2.963	2.937	2.917	2.917	3.22	3.036	3.156	3.185	2.957	3.031955	4.04	0.04	1	
CIS-1,4-DICHLORO-2-BUTENE												0.782	0.765	0.741	0.722	0.805	0.734	0.815	0.805	0.774	0.771388	4.36	0.044	1	
Cyclohexanone												0.083	0.099	0.088	0.089	0.078	0.065	0.078	0.081	0.073	0.081626	12.01	0.12	1	
PENTACHLOROETHANE												1.649	1.627	1.641	1.634	1.751	1.613	1.667	1.621	1.642	1.649559	2.5	0.025	1	
Hexachloroethane												1.992	2.158	1.988	2.038	2.14	2.01	2.035	2.011	2.079	2.050145	3.05	0.031	1	
AP9-1,4-DICHLOROBENZENE-D4																									

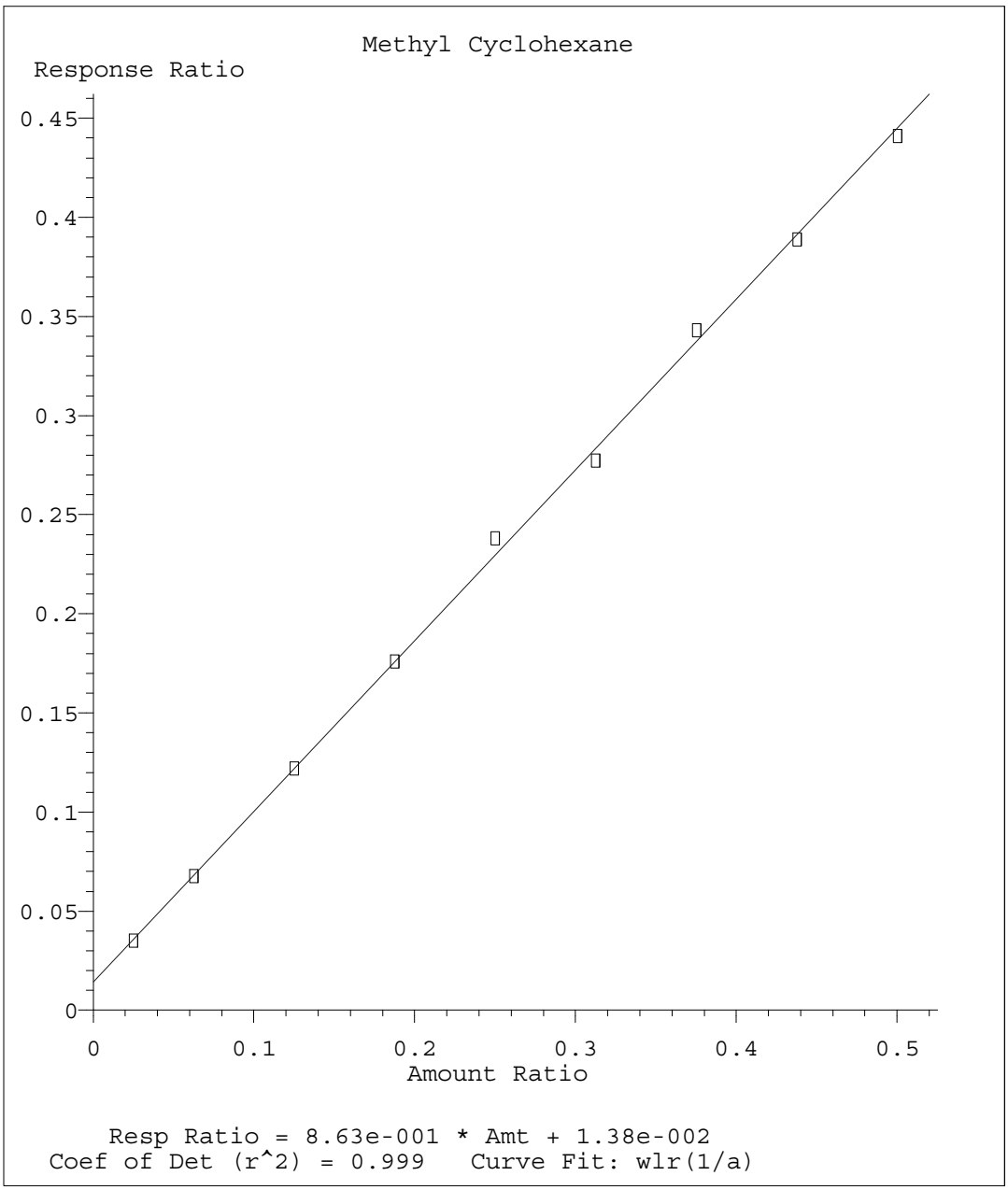
PDF Generated On: 05/03/2015 -- By: Ben Baker



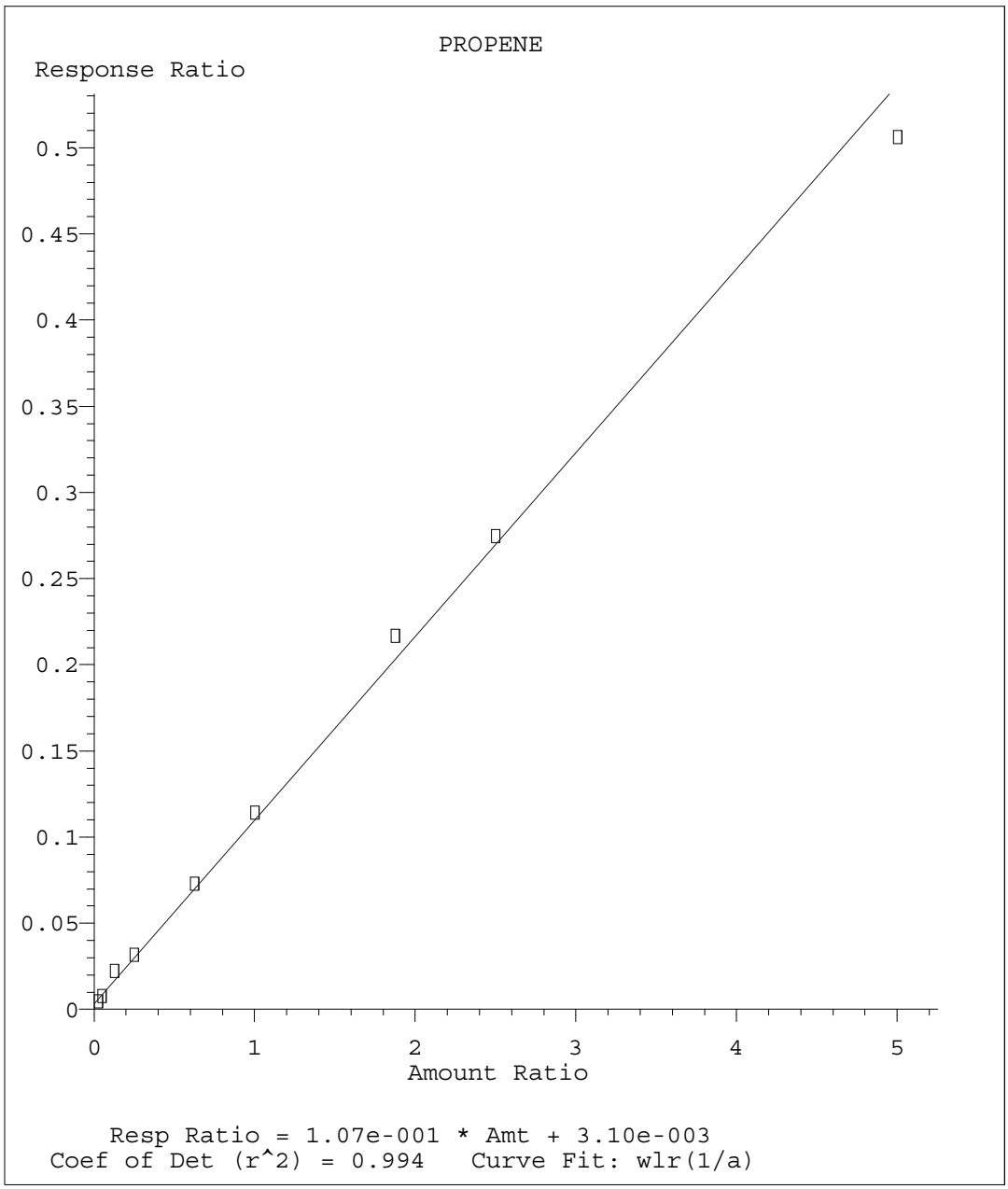
Method Name: C:\msdchem\1\methods\V818E01O.M



Method Name: C:\msdchem\1\methods\V818E01O.M



Method Name: C:\msdchem\1\methods\V818E01O.M



Method Name: C:\msdchem\1\methods\V818E01O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

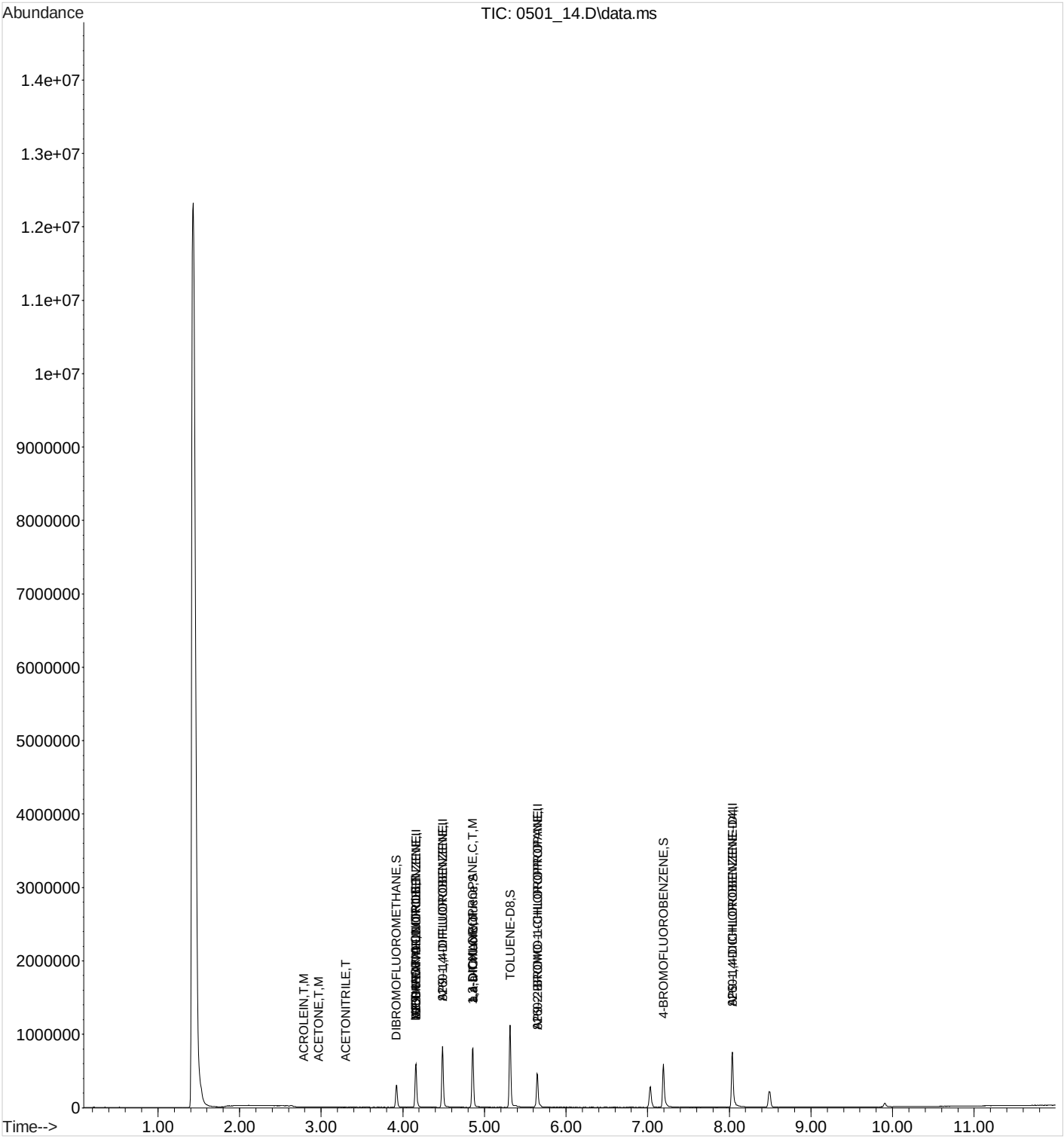
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.164	168	310739	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	523794	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	81372	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	210298	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	310739	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	523794	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	81372	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	210298	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	152573	40.2991116 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.75%		
46) a,a,a-Trifluorotoluene	4.858	146	280955	40.2000366 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.50%		
50) TOLUENE-D8	5.314	98	635047	40.4303966 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.08%		
68) 4-BROMOFLUOROBENZENE	7.194	95	217471	39.2739245 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.18%		
Target Compounds					Qvalue
7) 1,3-BUTADIENE	1.834	39	684	Below Cal	# 4
13) ACROLEIN	2.783	56	800	1.2052311 ppb	# 16
16) ACETONE	2.972	43	2409	1.3398428 ppb	# 85
43) 1,2-DICHLOROPROPANE	4.852	62	4996	1.2036079 ppb	# 21
101) ACETONITRILE	3.301	41	960	1.7795285 ppb	# 36
108) METHACRYLONITRILE	4.158	67	1302	0.5904748 ppb	# 1
111) ISOBUTANOL	4.164	43	1015	3.3906509 ppb	# 1
119) 1,4-DIOXANE	4.858	88	3215	90.2423487 ppb	# 32

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

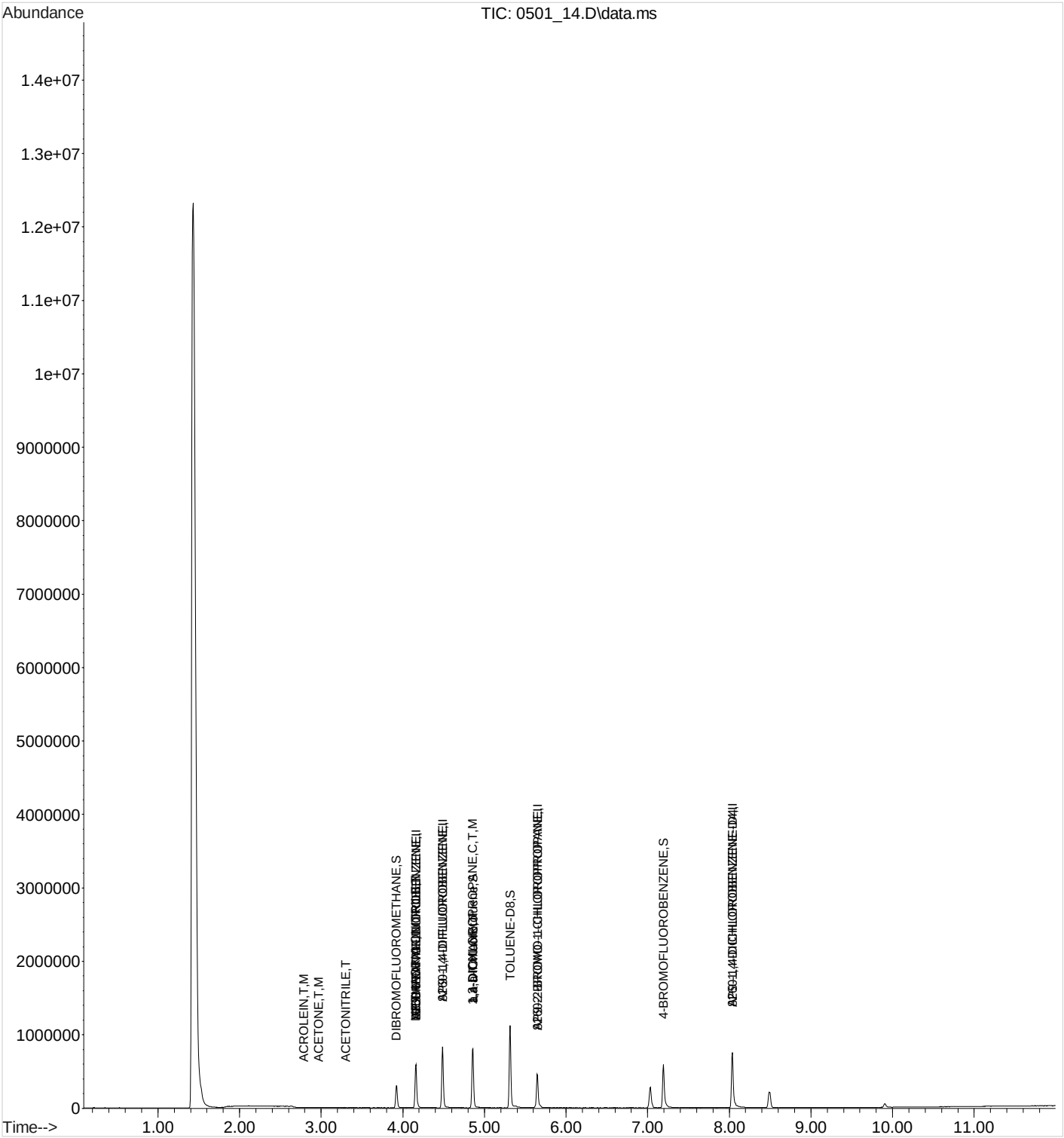
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.164	168	310739	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	523794	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	81372	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	210298	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	310739	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	523794	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	81372	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	210298	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	152573	40.2991116 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.75%		
46) a,a,a-Trifluorotoluene	4.858	146	280955	40.2000366 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.50%		
50) TOLUENE-D8	5.314	98	635047	40.4303966 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.08%		
68) 4-BROMOFLUOROBENZENE	7.194	95	217471	39.2739245 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.18%		
Target Compounds					Qvalue
7) 1,3-BUTADIENE	1.834	39	684	Below Cal	# 4
13) ACROLEIN	2.783	56	800	1.2052311 ppb	# 16
16) ACETONE	2.972	43	2409	1.3398428 ppb	# 85
43) 1,2-DICHLOROPROPANE	4.852	62	4996	1.2036079 ppb	# 21
101) ACETONITRILE	3.301	41	960	1.7795285 ppb	# 36
108) METHACRYLONITRILE	4.158	67	1302	0.5904748 ppb	# 1
111) ISOBUTANOL	4.164	43	1015	3.3906509 ppb	# 1
119) 1,4-DIOXANE	4.858	88	3215	90.2423487 ppb	# 32

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 14.D
Acq On : 1 May 2015 6:34 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 30A.D
Acq On : 1 May 2015 11:53 pm
Operator : 621
Sample : RL VMS 1a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:11:20 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

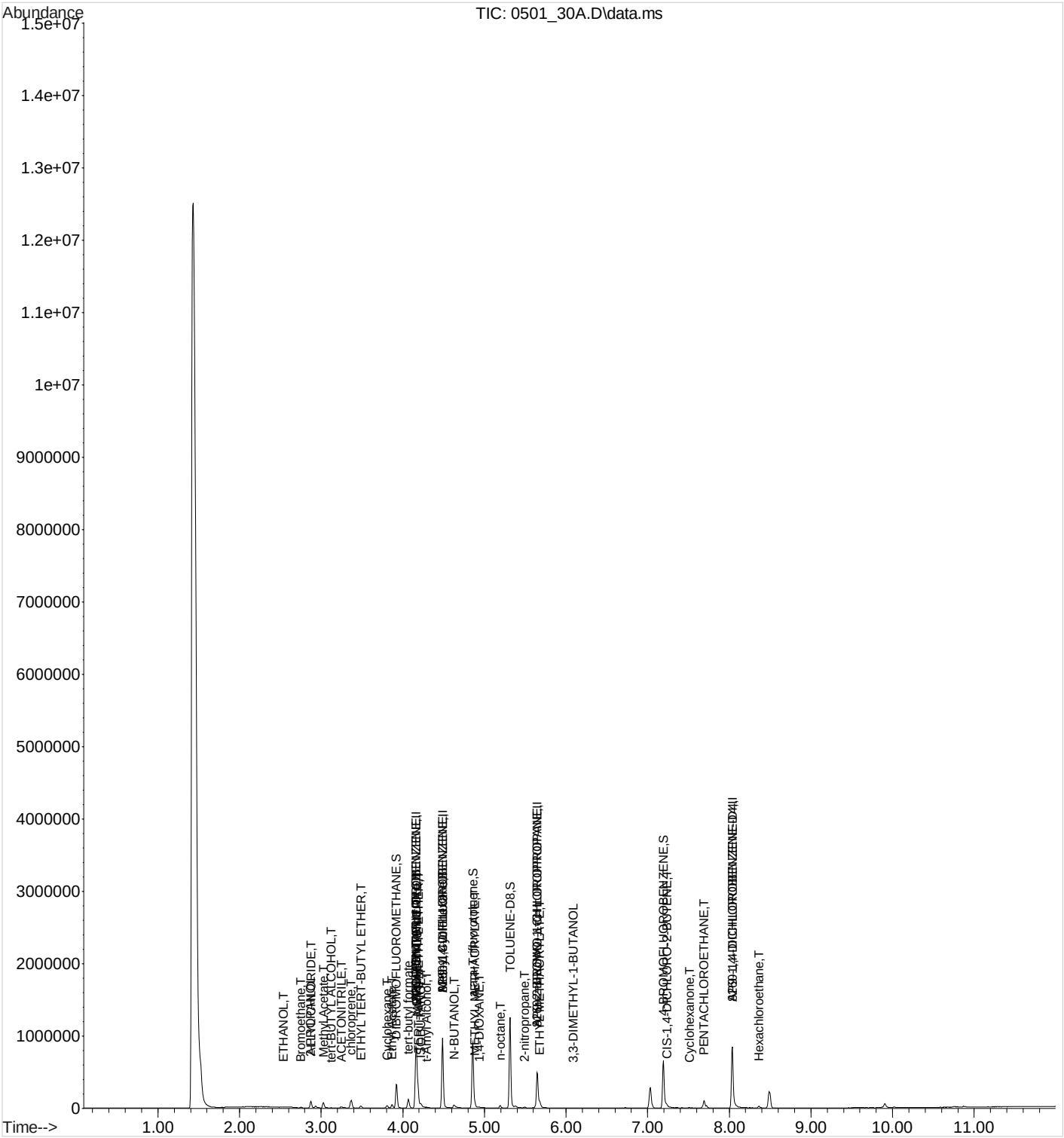
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	339406	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	567358	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	85287	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	225455	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	339406	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	567358	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	85287	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	225455	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.921	111	161359	39.0199968	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.55%				
46) a,a,a-Trifluorotoluene	4.858	146	307394	40.6058313	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.51%				
50) TOLUENE-D8	5.314	98	679506	39.9403339	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.85%				
68) 4-BROMOFLUOROBENZENE	7.194	95	235260	40.5162298	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.29%				
Target Compounds							Qvalue
97) ETHANOL	2.540	45	4921	94.1385313	ppb	#	88
98) Bromoethane	2.753	108	5352	1.0748597	ppb		100
99) 2-PROPANOL	2.869	45	2848	5.6134097	ppb		97
100) Methyl Acetate	3.027	43	79734	21.0861441	ppb	#	99
101) ACETONITRILE	3.246	41	27590	53.9958179	ppb		92
102) ALLYL CHLORIDE	2.875	76	17150	5.1584500	ppb		99
103) tert-BUTYL ALCOHOL	3.124	59	4027	6.0437863	ppb	#	79
104) chloroprene	3.367	53	51286	5.1629569	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.489	59	19465	1.0450477	ppb		94
106) PROPIONITRILE	4.170	54	34797	52.3873459	ppb	#	80
107) Ethyl Acetate	3.866	43	45852	10.3704067	ppb		98
108) METHACRYLONITRILE	4.177	67	109299	52.5762824	ppb		97
109) Cyclohexane	3.805	84	11698	1.0886075	ppb		98
110) tert-butyl formate	4.067	59	50279	10.1759206	ppb		92
111) ISOBUTANOL	4.219	43	34624	109.5654127	ppb	#	97
112) t-Amyl Alcohol	4.292	59	3063	6.1119467	ppb	#	65
113) TERT-AMYL METHYL ETHER	4.195	73	18601	1.0902241	ppb	#	1
115) N-BUTANOL	4.627	56	25292	172.0686108	ppb		88
116) Methyl Cyclohexane	4.487	83	19900	0.9877371	ppb		85
117) 2-nitropropane	5.491	43	7474	5.1030659	ppb	#	87
118) METHYL METHACRYLATE	4.882	41	22472	5.0294215	ppb	#	30
119) 1,4-DIOXANE	4.937	88	5177	112.6097348	ppb		94
120) n-octane	5.199	85	6850	1.0540770	ppb		95
121) 3,3-DIMETHYL-1-BUTANOL	6.087	57	1963	10.4396757	ppb	#	76
123) ETHYL METHACRYLATE	5.673	69	31587	4.8861047	ppb	#	11
124) CIS-1,4-DICHLORO-2-BUTENE	7.237	53	8333	5.0664748	ppb	#	21
125) Cyclohexanone	7.510	55	1770	10.1700599	ppb	#	63
126) PENTACHLOROETHANE	7.687	117	17580	4.9983665	ppb		96
127) Hexachloroethane	8.362	117	4247	0.9715718	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 30A.D
Acq On : 1 May 2015 11:53 pm
Operator : 621
Sample : RL VMS 1a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:11:20 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 27.D
Acq On : 1 May 2015 10:53 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15D23604
Misc : water IS/SURR15C12445
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:41:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:40:22 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	333841	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	567758	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	87973	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	237655	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	333841	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	567758	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	87973	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	237655	40.0000000	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	162171	39.8700769	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.68%			
46) a,a,a-Trifluorotoluene	4.858	146	308707	40.7505446	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.88%			
50) TOLUENE-D8	5.314	98	696470	40.9086106	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.27%			
68) 4-BROMOFLUOROBENZENE	7.188	95	240191	40.1024678	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.26%			
Target Compounds						Qvalue
3) PROPENE	1.579	41	28930	31.3221017	ppb	97
4) DICHLORODIFLUOROMETHANE	1.628	85	175019	25.9737976	ppb	100
5) CHLOROMETHANE	1.768	50	197215	26.1961007	ppb	99
6) VINYL CHLORIDE	1.847	62	233069	27.8553614	ppb	99
7) 1,3-BUTADIENE	1.853	39	176563	26.3045497	ppb	98
8) BROMOMETHANE	2.090	94	132154	28.1574802	ppb	99
9) CHLOROETHANE	2.181	66	43303	26.4713403	ppb	98
10) TRICHLOROFLUOROMETHANE	2.266	101	238210	28.0186984	ppb	99
11) DICHLOROFLUOROMETHANE	2.303	67	310796	26.3117558	ppb	98
12) ETHYL ETHER	2.455	59	139875	25.7973450	ppb	99
13) ACROLEIN	2.796	56	87623	127.6997592	ppb	100
14) 1,1-DICHLOROETHENE	2.589	61	271775	27.3640174	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.625	101	158415	27.5730122	ppb	100
16) ACETONE	2.960	43	240361	128.7149499	ppb	100
17) IODOMETHANE	2.686	142	1217357	139.0596605	ppb	100
18) CARBON DISULFIDE	2.619	76	587981	27.0073767	ppb	99
19) METHYLENE CHLORIDE	2.936	84	165260	26.0915108	ppb	99
20) ACRYLONITRILE	3.410	53	227224	135.6147913	ppb	99
21) n-Hexane	3.063	56	172993	26.8480979	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.033	96	171730	26.3035820	ppb	99
23) METHYL TERT-BUTYL ETHER	3.082	73	421631	26.7580553	ppb	99
24) 1,1-DICHLOROETHANE	3.380	63	313225	28.2661406	ppb	99
25) VINYL ACETATE	3.495	43	1229546	121.8448707	ppb	100
26) DI-ISOPROPYL ETHER	3.282	45	583250	27.4546307	ppb	99
27) 2,2-Dichloropropane	3.745	77	199177	26.8651511	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.678	96	179740	26.5078535	ppb	99
29) 2-BUTANONE (MEK)	3.988	43	376805	145.0816106	ppb	99
30) BROMOCHLOROMETHANE	3.793	130	93738	27.7909343	ppb	97
31) TETRAHYDROFURAN	3.927	42	51501	30.0529679	ppb #	81
32) CHLOROFORM	3.818	83	286820	26.6101259	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.952	97	249613	26.6642992	ppb	98
35) CARBON TETRACHLORIDE	3.915	117	208725	27.4233940	ppb	99
36) 1,1-Dichloropropene	4.019	75	257224	27.9909905	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 27.D
Acq On : 1 May 2015 10:53 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15D23604
Misc : water IS/SURR15C12445
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:41:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:40:22 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	758329	27.5088846 ppb		92
38) HEPTANE	4.104	43	337177	26.1356343 ppb	#	99
39) BENZENE	4.158	78	701123	27.3981362 ppb		100
40) 1,2-DICHLOROETHANE	4.274	62	191334	27.5224795 ppb		99
42) TRICHLOROETHENE	4.481	130	172621	27.6830962 ppb		98
43) 1,2-DICHLOROPROPANE	4.791	62	119636	26.5902093 ppb		99
44) DIBROMOMETHANE	4.736	93	80688	25.9740893 ppb		98
45) BROMODICHLOROMETHANE	4.815	83	213748	25.8745641 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.132	63	462872	139.4089351 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.193	75	265904	27.2771914 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.564	58	286388	139.1875114 ppb		100
51) TOLUENE	5.345	91	744520	26.5825789 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.594	110	54320	26.5537051 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.704	97	123340	26.7145629 ppb		99
55) TETRACHLOROETHENE	5.600	164	129381	27.2272096 ppb		98
56) 1,3-Dichloropropane	5.892	76	220062	26.3457735 ppb		99
57) 2-HEXANONE	6.105	58	265996	140.8165460 ppb		98
58) CHLORODIBROMOMETHANE	5.831	129	132610	27.6624411 ppb		99
59) 1,2-DIBROMOETHANE	6.008	107	119715	27.6353069 ppb		99
60) CHLOROBENZENE	6.349	112	436977	27.3973412 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.385	133	140741	27.2985920 ppb	#	100
62) ETHYLBENZENE	6.349	106	262084	27.1507062 ppb		98
63) M&P-XYLENE	6.446	106	630910	53.1029585 ppb		99
64) O-XYLENE	6.750	106	302566	27.1995775 ppb		100
65) STYRENE	6.787	104	470364	27.4431890 ppb		100
66) Bromoform	6.823	173	80934	27.3915862 ppb		98
67) Isopropylbenzene	6.969	105	829254	27.5265409 ppb		99
69) Bromobenzene	7.279	77	335045	26.8166233 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.322	83	159736	25.7879939 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.438	110	44504	27.3421259 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.456	53	38576	26.8827112 ppb	#	98
73) n-Propylbenzene	7.273	91	978285	27.7362027 ppb		100
74) 4-ETHYLTOLUENE	7.352	105	785751	27.8392211 ppb		100
75) 2-Chlorotoluene	7.407	126	170849	27.2638397 ppb		97
76) 4-Chlorotoluene	7.529	91	556008	28.1650923 ppb		99
77) 1,3,5-Trimethylbenzene	7.407	105	682332	27.4573163 ppb		99
78) tert-Butylbenzene	7.657	119	566291	27.4368495 ppb		100
79) 1,2,4-Trimethylbenzene	7.711	105	666036	27.2588040 ppb		100
80) sec-Butylbenzene	7.796	105	910785	27.7775968 ppb		100
81) 1,3-DICHLOROBENZENE	7.985	146	326770	28.1370293 ppb		99
82) p-Isopropyltoluene	7.900	119	734055	27.9133744 ppb		100
83) DICYCLOPENTADIENE	7.894	66	853888	28.0634452 ppb		100
85) 1,4-DICHLOROBENZENE	8.046	146	329031	26.4232001 ppb		93
86) 1,2,3-TRIMETHYLBENZENE	8.052	105	681776	27.3528877 ppb		100
87) 1,2-DICHLOROBENZENE	8.380	146	303494	27.8044774 ppb		100
88) n-Butylbenzene	8.228	91	696342	28.5905025 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.025	157	29592	27.3922352 ppb		98
90) 1,2,4-Trichlorobenzene	9.579	180	199838	30.4983398 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.542	225	112747	28.4944441 ppb		98
92) Naphthalene	9.853	128	517263	29.0566430 ppb		99
93) 1,2,3-Trichlorobenzene	10.005	180	188318	29.7638603 ppb		100
94) 1-Methylnaphthalene	10.729	142	290812	30.4745609 ppb		99
95) 2-Methylnaphthalene	10.856	142	256922	30.6402332 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 27.D
Acq On : 1 May 2015 10:53 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15D23604
Misc : water IS/SURR15C12445
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:41:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:40:22 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 27.D
Acq On : 1 May 2015 10:53 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15D23604
Misc : water IS/SURR15C12445
ALS Vial : 15 Sample Multiplier: 1
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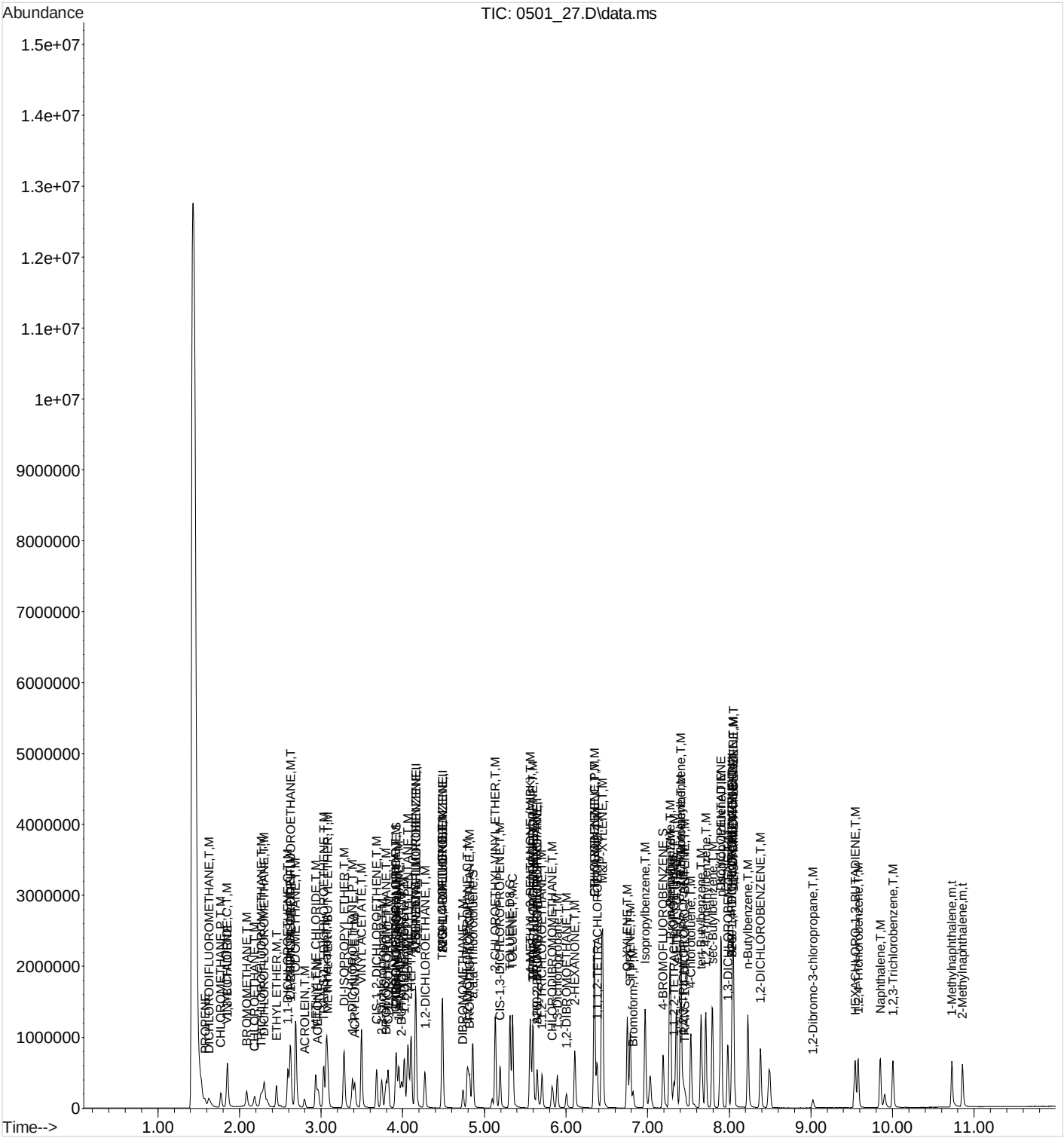
Quant Time: May 03 15:41:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:40:22 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 40.D
Acq On : 2 May 2015 3:12 am
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15C12445
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:50:38 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	308490	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	525913	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	80300	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	211359	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	308490	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	525913	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	80300	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	211359	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.921	111	150764	40.1116116	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.28%				
46) a,a,a-Trifluorotoluene	4.852	146	281492	40.1145895	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.29%				
50) TOLUENE-D8	5.314	98	647650	41.0678571	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.67%				
68) 4-BROMOFLUOROBENZENE	7.188	95	223180	40.8228667	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.06%				
Target Compounds							Qvalue
16) ACETONE	2.966	43	4334	2.5116116	ppb		93
19) METHYLENE CHLORIDE	2.936	84	7218	1.2332381	ppb		90
20) ACRYLONITRILE	3.368	53	480975	310.6518502	ppb	#	51
24) 1,1-DICHLOROETHANE	3.361	63	6695	0.6538216	ppb	#	43
25) VINYL ACETATE	3.483	43	19409	2.0814415	ppb	#	74
29) 2-BUTANONE (MEK)	4.067	43	83231	34.6800253	ppb	#	49
31) TETRAHYDROFURAN	3.860	42	29752	18.7882553	ppb	#	43
32) CHLOROFORM	3.806	83	6757	0.6784065	ppb	#	52
37) 2,2,4-TRIMETHYLPENTANE	4.067	57	380151	14.9234775	ppb	#	1
38) HEPTANE	4.067	43	83231	6.9816616	ppb	#	22
40) 1,2-DICHLOROETHANE	4.177	62	28647	4.4593662	ppb	#	74
42) TRICHLOROETHENE	4.487	130	4127	0.7145043	ppb	#	62
43) 1,2-DICHLOROPROPANE	4.852	62	4953	1.1884408	ppb	#	29
49) 4-METHYL-2-PENTANONE (...	5.667	58	10870	5.7032755	ppb	#	17
55) TETRACHLOROETHENE	5.600	164	7159	1.6505126	ppb		98
57) 2-HEXANONE	6.075	58	1783	1.0341030	ppb	#	1
61) 1,1,1,2-TETRACHLOROETHANE	6.385	133	2746	0.5835177	ppb	#	92
69) Bromobenzene	7.225	77	31153	2.7317106	ppb	#	28
72) TRANS-1,4-DICHLORO-2-B...	7.468	53	3970	3.0309602	ppb	#	77
73) n-Propylbenzene	7.231	91	13029	0.4046938	ppb	#	66
78) tert-Butylbenzene	7.687	119	174547	9.2649019	ppb	#	31
97) ETHANOL	2.534	45	56751	1194.4445601	ppb	#	98
98) Bromoethane	2.753	108	48891	10.8029667	ppb		97
99) 2-PROPANOL	2.863	45	15575	61.5968285	ppb		97
100) Methyl Acetate	3.021	43	747961	217.6261090	ppb	#	100
101) ACETONITRILE	3.240	41	263123	566.5596755	ppb		95
102) ALLYL CHLORIDE	2.875	76	160963	53.2671650	ppb		98
103) tert-BUTYL ALCOHOL	3.118	59	36221	59.8089712	ppb		96
104) chloroprene	3.368	53	480975	53.2721962	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.483	59	187738	11.0895092	ppb		99
106) PROPIONITRILE	4.164	54	331337	548.8238217	ppb		100
107) Ethyl Acetate	3.860	43	431945	107.4841384	ppb		99
108) METHACRYLONITRILE	4.177	67	1028932	544.5512821	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 40.D
Acq On : 2 May 2015 3:12 am
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15C12445
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:50:38 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

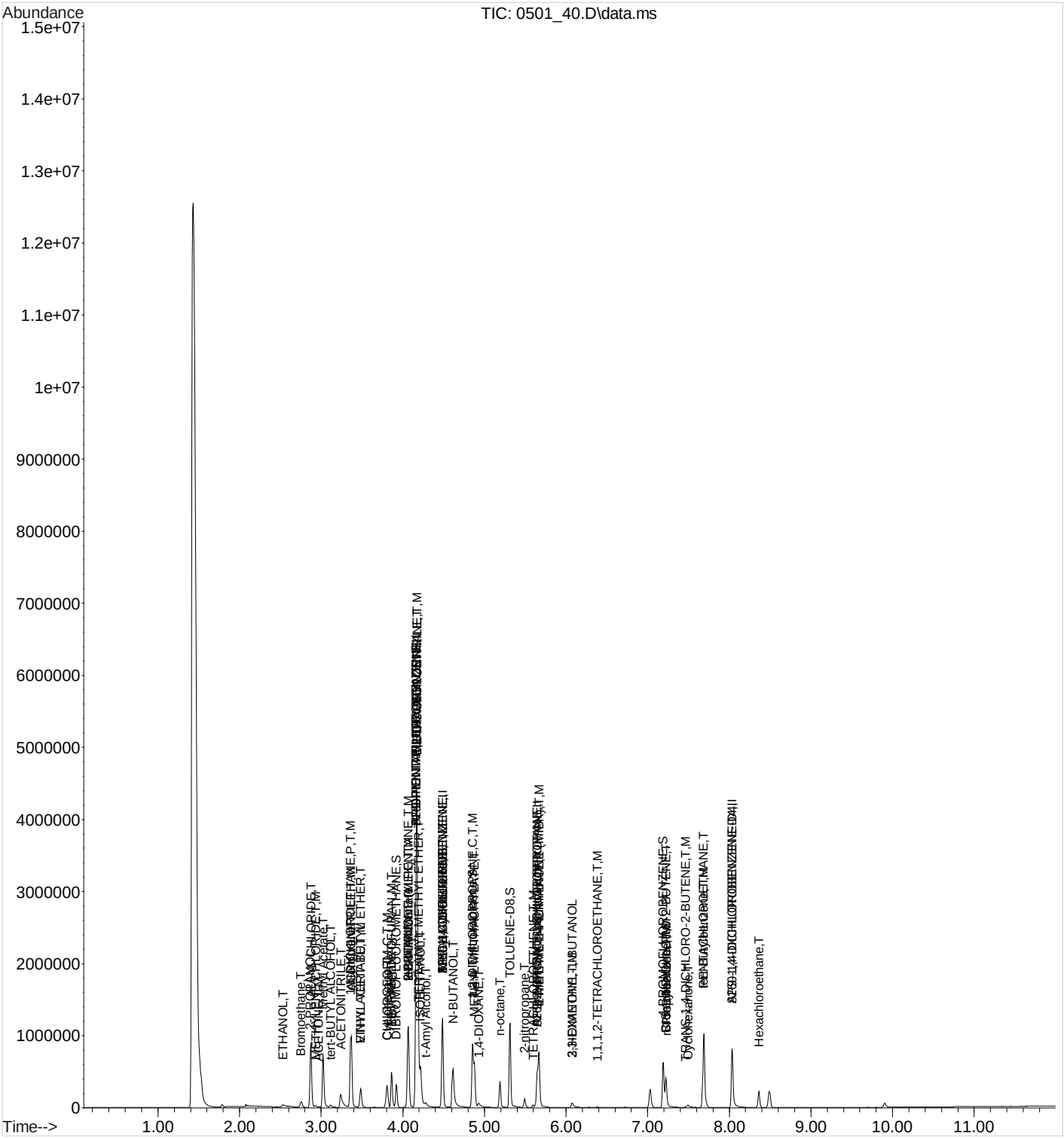
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Cyclohexane	3.806	84	104062	10.6544323	ppb	99
110) tert-butyl formate	4.067	59	498096	110.9120055	ppb	99
111) ISOBUTANOL	4.213	43	330540	1150.7969107	ppb #	96
112) t-Amyl Alcohol	4.280	59	23892	52.4521741	ppb	88
113) TERT-AMYL METHYL ETHER	4.195	73	170050	10.9656543	ppb #	93
115) N-BUTANOL	4.615	56	306136	2246.8607589	ppb	98
116) Methyl Cyclohexane	4.487	83	129323	10.7573335	ppb	98
117) 2-nitropropane	5.491	43	71838	52.9146090	ppb	98
118) METHYL METHACRYLATE	4.876	41	219834	53.0779874	ppb	99
119) 1,4-DIOXANE	4.931	88	45342	1064.0002253	ppb	99
120) n-octane	5.193	85	61855	10.2683306	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.075	57	41817	111.6876618	ppb	96
123) ETHYL METHACRYLATE	5.667	69	327957	53.8813642	ppb	99
124) CIS-1,4-DICHLORO-2-BUTENE	7.225	53	84912	54.8328559	ppb	96
125) Cyclohexanone	7.492	55	15419	94.0965601	ppb	96
126) PENTACHLOROETHANE	7.687	117	182771	55.1929751	ppb	100
127) Hexachloroethane	8.362	117	44238	10.7486866	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 40.D
Acq On : 2 May 2015 3:12 am
Operator : 621
Sample : SSCV VMS 10a ppb 15C22904
Misc : water IS/SURR15C12445
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:50:38 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On : 2 May 2015 7:12 am
Operator : 621
Sample : SSCV GROMS 5.0 ppm 15D07745
Misc : water IS/SURR15C12445
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:07:44 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.165	168	329338	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	585735	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	89246	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	230079	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	329338	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	585735	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	89246	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	230079	40.0000000 ppb	# 0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	158492	39.4983590 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.75%		
46) a,a,a-Trifluorotoluene	4.852	146	310276	39.7006128 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.25%		
50) TOLUENE-D8	5.314	98	708785	40.3542166 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.89%		
68) 4-BROMOFLUOROBENZENE	7.188	95	263679	43.3960853 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 108.49%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC 171939997m		5.8473942 ppm	
3) PROPENE	1.579	41	1460	0.5012769 ppb #	87
4) DICHLORODIFLUOROMETHANE	1.628	85	2053	0.3088425 ppb #	42
5) CHLOROMETHANE	1.768	50	2592	0.3490033 ppb #	90
8) BROMOMETHANE	2.090	94	1737	0.3751553 ppb #	86
11) DICHLOROFLUOROMETHANE	2.303	67	5283	0.4533701 ppb #	6
12) ETHYL ETHER	2.449	59	1766	0.3301592 ppb	94
13) ACROLEIN	2.790	56	135465	200.1229472 ppb #	1
14) 1,1-DICHLOROETHENE	2.595	61	3197	0.3262953 ppb	89
16) ACETONE	2.930	43	259992	141.1311250 ppb #	75
17) IODOMETHANE	2.686	142	11596	1.3427317 ppb	99
19) METHYLENE CHLORIDE	2.936	84	8464	1.3545809 ppb #	1
20) ACRYLONITRILE	3.422	53	64249	38.8702255 ppb #	43
21) n-Hexane	3.063	56	855287	134.5534048 ppb #	68
23) METHYL TERT-BUTYL ETHER	3.082	73	23082	1.4848866 ppb #	1
24) 1,1-DICHLOROETHANE	3.380	63	3831	0.3504452 ppb #	59
25) VINYL ACETATE	3.501	43	13482	1.3542992 ppb #	84
26) DI-ISOPROPYL ETHER	3.282	45	6793	0.3241308 ppb #	62
27) 2,2-Dichloropropane	3.702	77	7419	1.0143628 ppb #	57
28) CIS-1,2-DICHLOROETHENE	3.678	96	2485	0.3714959 ppb #	52
29) 2-BUTANONE (MEK)	3.994	43	158753	61.9605809 ppb #	57
30) BROMOCHLOROMETHANE	3.793	130	1026	0.3083420 ppb #	1
31) TETRAHYDROFURAN	3.939	42	6879	4.0690670 ppb #	1
32) CHLOROFORM	3.806	83	49759	4.6795810 ppb #	26
36) 1,1-Dichloropropene	4.019	75	3258	0.3593815 ppb #	1
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	3010015	110.6832252 ppb #	52
38) HEPTANE	4.104	43	2000339	157.1724900 ppb #	80
39) BENZENE	4.158	78	943765	37.3842354 ppb	99
40) 1,2-DICHLOROETHANE	4.274	62	2481	0.3617595 ppb #	1
43) 1,2-DICHLOROPROPANE	4.791	62	1911	0.4117017 ppb #	1
44) DIBROMOMETHANE	4.736	93	1590	0.4961244 ppb #	1
45) BROMODICHLOROMETHANE	4.815	83	2896	0.3398065 ppb #	26
47) 2-CHLOROETHYL VINYL ETHER	5.138	63	4635	1.3531362 ppb #	53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On : 2 May 2015 7:12 am
Operator : 621
Sample : SSCV GROMS 5.0 ppm 15D07745
Misc : water IS/SURR15C12445
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:07:44 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	CIS-1,3-DICHLOROPROPENE	5.199	75	3084	0.3066558	ppb	#	1
49)	4-METHYL-2-PENTANONE (...	5.533	58	4674	2.2018932	ppb	#	1
51)	TOLUENE	5.339	91	16806267	581.6397626	ppb	#	71
52)	TRANS-1,3-DICHLOROPROPENE	5.600	110	1576	0.7467645	ppb	#	1
54)	1,1,2-TRICHLOROETHANE	5.704	97	28799	6.1486841	ppb	#	1
55)	TETRACHLOROETHENE	5.600	164	1507	0.3126126	ppb	#	78
56)	1,3-Dichloropropane	5.892	76	2951	0.3482537	ppb		91
57)	2-HEXANONE	6.123	58	2474	1.2910377	ppb		77
58)	CHLORODIBROMOMETHANE	5.838	129	1525	0.3135774	ppb	#	69
59)	1,2-DIBROMOETHANE	6.014	107	1428	0.3249410	ppb	#	2
60)	CHLOROBENZENE	6.349	112	6913	0.4272450	ppb	#	1
61)	1,1,1,2-TETRACHLOROETHANE	6.385	133	1649	0.3152833	ppb	#	96
62)	ETHYLBENZENE	6.349	106	1191462	121.6694261	ppb		100
63)	M&P-XYLENE	6.446	106	2645410	219.4850478	ppb		99
64)	O-XYLENE	6.750	106	1056619	93.6313083	ppb		97
65)	STYRENE	6.793	104	27335	1.5721002	ppb	#	33
67)	Isopropylbenzene	6.969	105	306810	10.0390870	ppb		99
69)	Bromobenzene	7.273	77	42328	3.3395607	ppb	#	35
70)	1,1,2,2-TETRACHLOROETHANE	7.298	83	30411	4.8395624	ppb	#	27
71)	1,2,3-TRICHLOROPROPANE	7.438	110	3616	2.1898900	ppb	#	24
72)	TRANS-1,4-DICHLORO-2-B...	7.468	53	1982	1.3615079	ppb	#	22
73)	n-Propylbenzene	7.273	91	1107523	30.9524481	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	3814871	133.2332545	ppb		98
75)	2-Chlorotoluene	7.401	126	2940	0.4624689	ppb	#	1
76)	4-Chlorotoluene	7.529	91	6385	0.3188245	ppb	#	69
77)	1,3,5-Trimethylbenzene	7.407	105	1044119	41.4164612	ppb		98
78)	tert-Butylbenzene	7.657	119	9876	0.4716679	ppb		87
79)	1,2,4-Trimethylbenzene	7.711	105	3489823	140.7904299	ppb		99
80)	sec-Butylbenzene	7.796	105	115736	3.4794285	ppb	#	80
81)	1,3-DICHLOROBENZENE	7.979	146	3847	0.3265268	ppb		96
82)	p-Isopropyltoluene	7.863	119	120369	4.5118955	ppb		93
83)	DICYCLOPENTADIENE	7.894	66	55929	1.8119148	ppb		99
85)	1,4-DICHLOROBENZENE	8.052	146	3934	0.3263269	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	797046	33.0304762	ppb		100
87)	1,2-DICHLOROBENZENE	8.387	146	3747	0.3545833	ppb	#	72
88)	n-Butylbenzene	8.228	91	102023	4.3268044	ppb	#	82
90)	1,2,4-Trichlorobenzene	9.579	180	2516	0.3966238	ppb	#	70
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	1199	0.3130000	ppb	#	88
92)	Naphthalene	9.853	128	193100	11.2043398	ppb	#	81
93)	1,2,3-Trichlorobenzene	10.011	180	4608	0.7522806	ppb	#	65
94)	1-Methylnaphthalene	10.729	142	169454	18.3420103	ppb		99
95)	2-Methylnaphthalene	10.856	142	87796	10.8152230	ppb		95
97)	ETHANOL	2.534	45	33506	660.5630992	ppb	#	90
99)	2-PROPANOL	2.863	45	512	Below Cal	#	56	
100)	Methyl Acetate	3.063	43	1029605	280.6092180	ppb	#	54
101)	ACETONITRILE	3.246	41	34720	70.0270468	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.063	59	1510	2.3355119	ppb	#	1
104)	chloroprene	3.331	53	11226	1.1646686	ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	3.483	59	10815	0.5983922	ppb	#	74
106)	PROPIONITRILE	4.213	54	9166	14.2213923	ppb	#	1
107)	Ethyl Acetate	3.866	43	1399906	326.2977280	ppb	#	43
108)	METHACRYLONITRILE	4.189	67	6273	3.1097584	ppb	#	1
109)	Cyclohexane	3.806	84	654563	62.7753070	ppb	#	77
110)	tert-butyl formate	4.073	59	3328	0.6941416	ppb	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On : 2 May 2015 7:12 am
Operator : 621
Sample : SSCV GROMS 5.0 ppm 15D07745
Misc : water IS/SURR15C12445
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:07:44 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

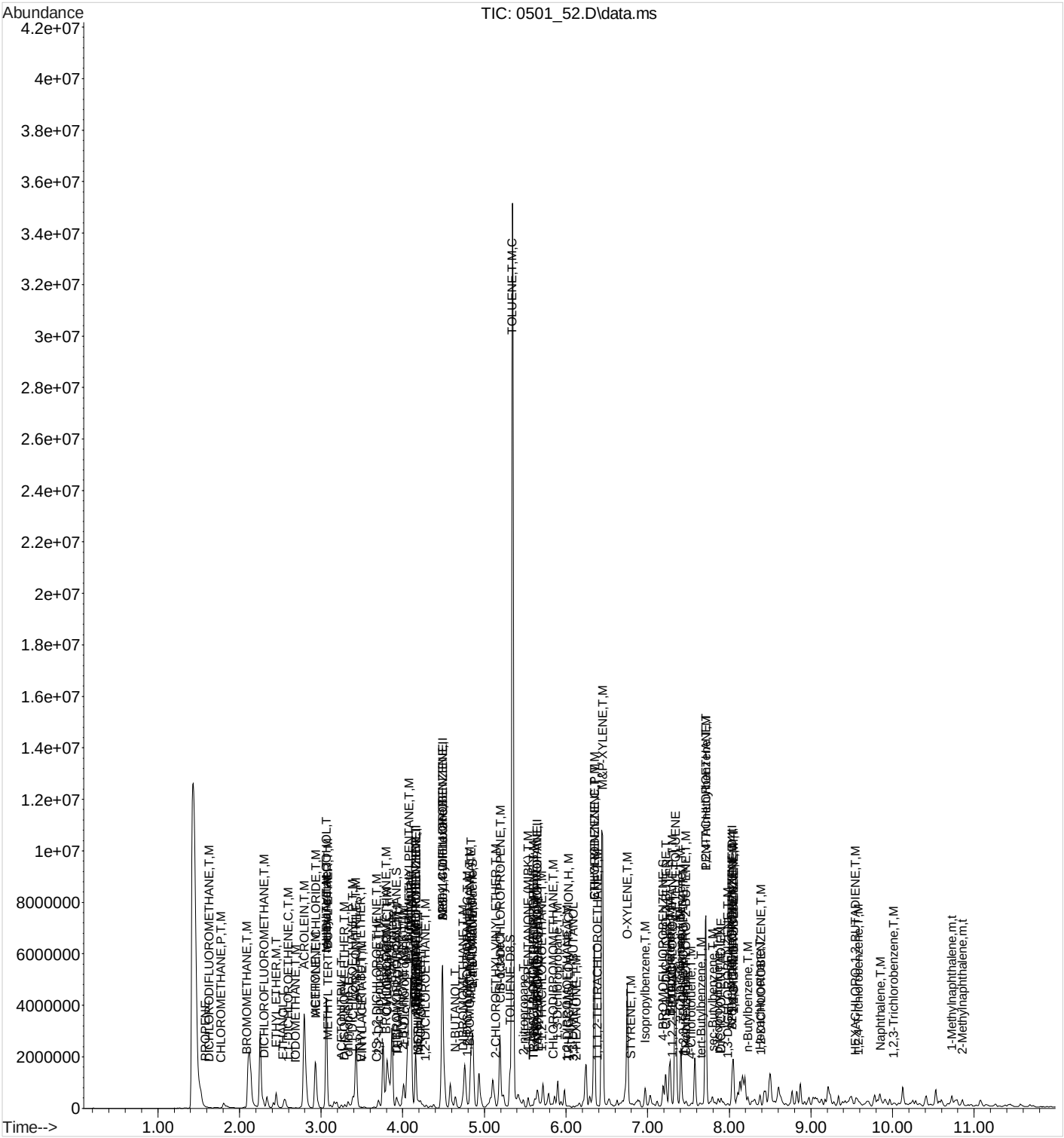
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
111) ISOBUTANOL	4.189	43	1566	5.1069978	ppb	#	69
113) TERT-AMYL METHYL ETHER	4.158	73	17567	1.0610962	ppb	#	1
115) N-BUTANOL	4.639	56	25173	165.8858958	ppb	#	1
116) Methyl Cyclohexane	4.487	83	1446994	113.8387678	ppb	#	79
117) 2-nitropropane	5.479	43	64482	42.6454389	ppb	#	68
118) METHYL METHACRYLATE	4.834	41	567106	122.9409480	ppb	#	29
119) 1,4-DIOXANE	4.852	88	3465	73.0057416	ppb	#	1
120) n-octane	5.193	85	430228	64.1263374	ppb		94
121) 3,3-DIMETHYL-1-BUTANOL	6.087	57	16046	42.3034620	ppb	#	35
123) ETHYL METHACRYLATE	5.661	69	66241	9.7920888	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.225	53	13528	7.8601743	ppb	#	3
125) Cyclohexanone	7.468	55	16902	92.8073605	ppb	#	55
126) PENTACHLOROETHANE	7.711	117	116840	31.7464268	ppb	#	13
127) Hexachloroethane	8.374	117	3313	0.7242827	ppb	#	59

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On : 2 May 2015 7:12 am
Operator : 621
Sample : SSCV GROMS 5.0 ppm 15D07745
Misc : water IS/SURR15C12445
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS18

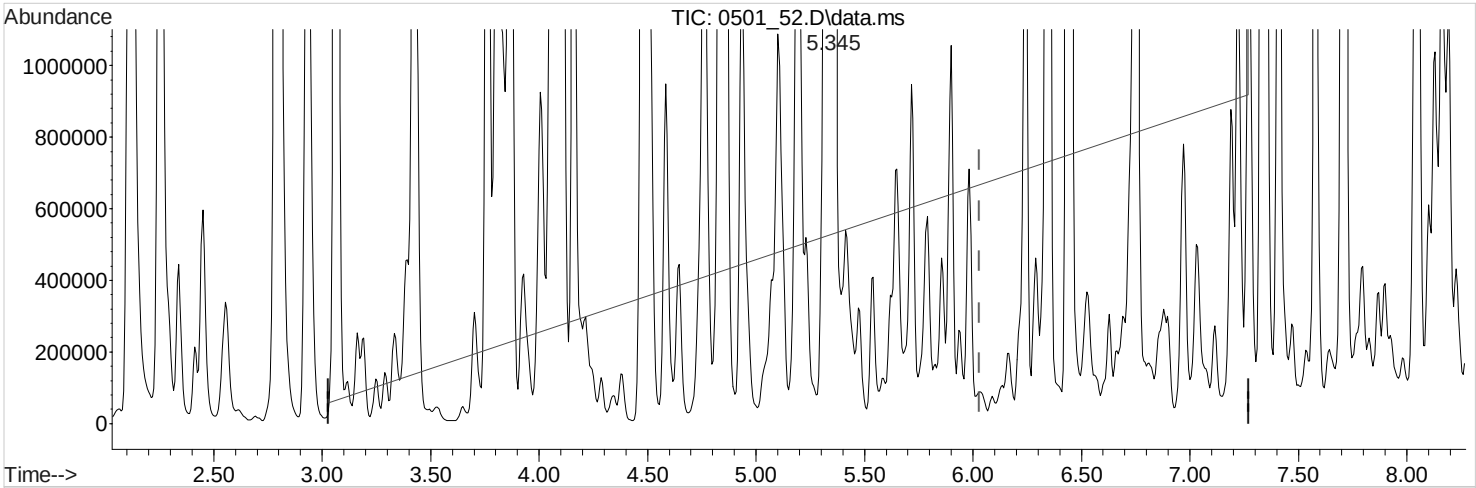
Quant Time: May 03 16:07:44 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

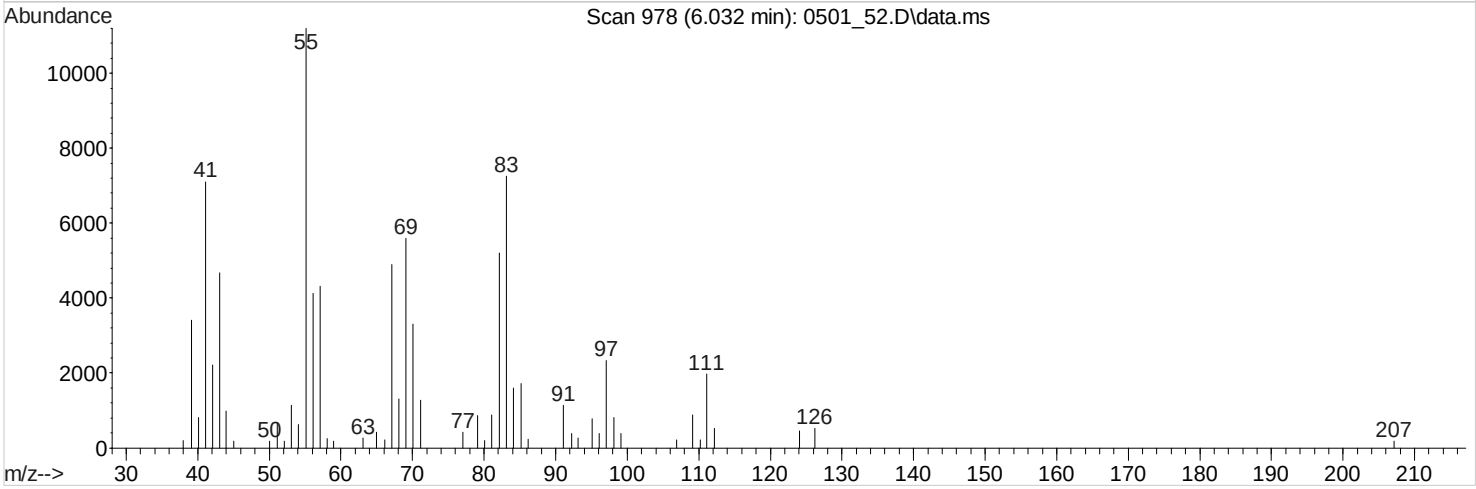


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On : 2 May 2015 7:12 am
Operator : 621
Sample : SSCV GROMS 5.0 ppm 15D07745
Misc : water IS/SURR15C12445
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:07:36 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_52.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 3.3648425 ppm m

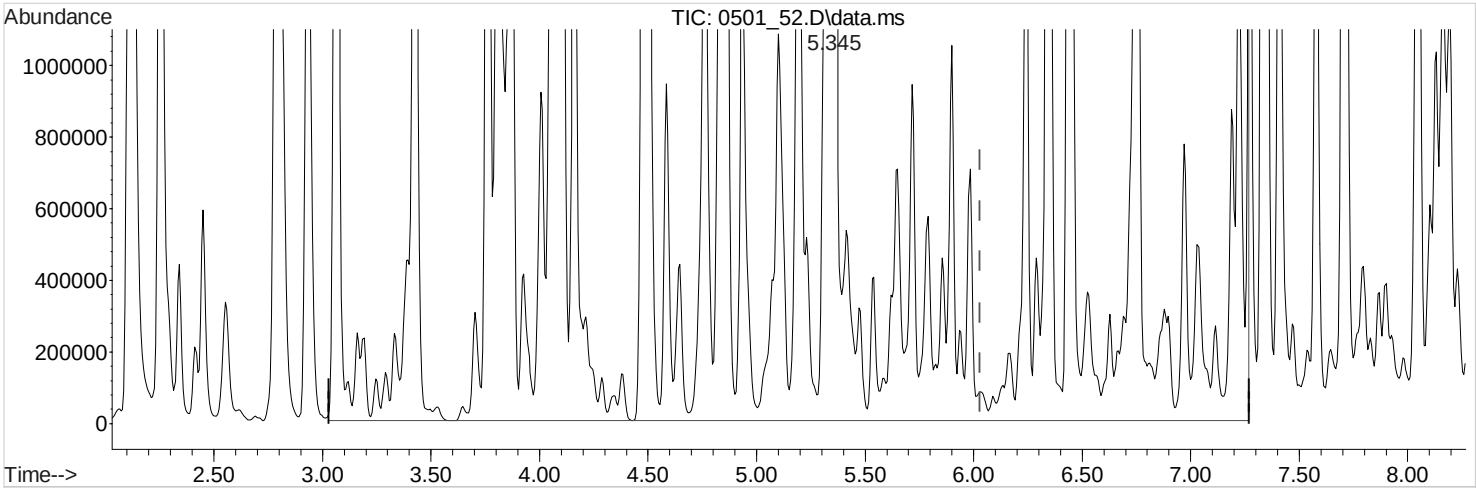
response 98941681

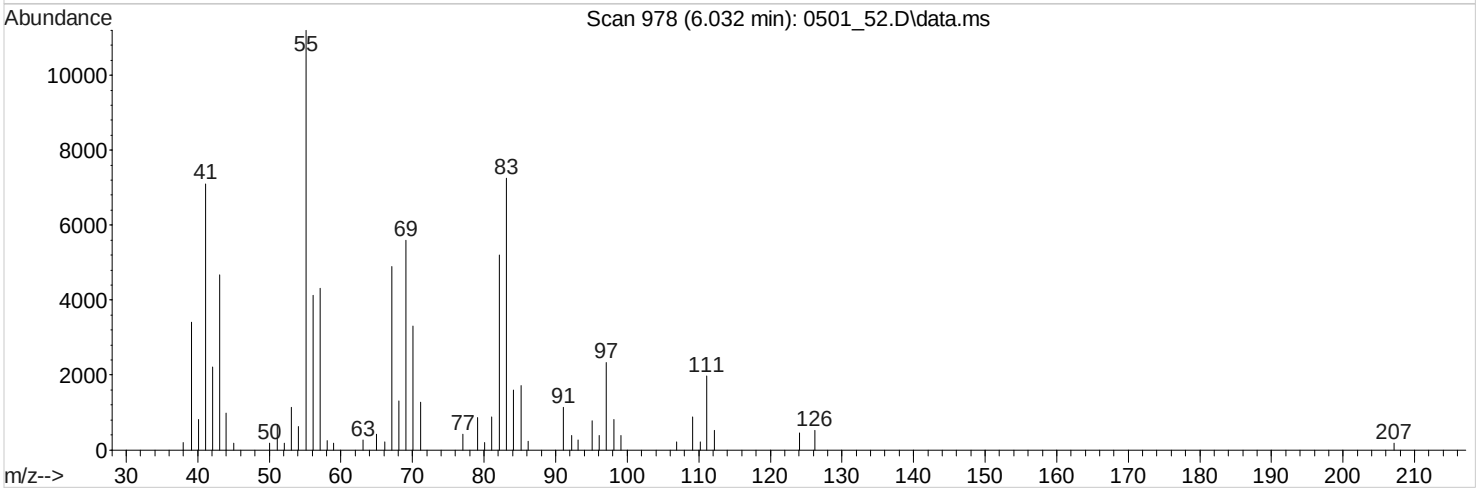
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.37#
0.00	0.00	0.17#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\050115\
Data File : 0501 52.D
Acq On    :  2 May 2015   7:12 am
Operator  : 621
Sample    : SSCV GROMS  5.0 ppm 15D07745
Misc      : water IS/SURR15C12445
ALS Vial  : 40   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:07:36 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
```





TIC: 0501_52.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 5.8473942 ppm m

response 171939997

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.21#
0.00	0.00	0.10#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 15.D
Acq On : 1 May 2015 6:54 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:32:37 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.164	168	292996	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	481006	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	74364	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	188858	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.05
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.927	111	140276	39.6418719 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.10%		
46) a,a,a-Trifluorotoluene	4.858	146	265274	41.3764976 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.44%		
50) TOLUENE-D8	5.314	98	593198	40.9602499 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.40%		
68) 4-BROMOFLUOROBENZENE	7.194	95	197485	38.8675301 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.17%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-2272588m	Below Cal	
3) PROPENE	1.567	41	500	0.5859033 ppb #	26
4) DICHLORODIFLUOROMETHANE	1.621	85	1867	0.3471267 ppb #	42
5) CHLOROMETHANE	1.767	50	2028	0.3340573 ppb #	94
6) VINYL CHLORIDE	1.840	62	1911	0.2691582 ppb #	89
7) 1,3-BUTADIENE	1.853	39	2996	0.5533878 ppb #	78
8) BROMOMETHANE	2.096	94	1858	0.4468028 ppb #	70
9) CHLOROETHANE	2.181	66	911	0.6871259 ppb #	48
10) TRICHLOROFLUOROMETHANE	2.266	101	1932	0.2636480 ppb #	75
11) DICHLOROFLUOROMETHANE	2.309	67	3197	0.3329057 ppb #	84
12) ETHYL ETHER	2.455	59	1571	0.3607464 ppb #	83
13) ACROLEIN	2.796	56	1356	2.3953981 ppb #	72
14) 1,1-DICHLOROETHENE	2.595	61	2206	0.2620080 ppb #	69
15) 1,1,2-TRICHLOROTRIFLUO...	2.625	101	1326	0.2732889 ppb #	72
16) ACETONE	2.966	43	2977	1.9456989 ppb #	61
17) IODOMETHANE	2.692	142	9510	1.2607015 ppb	99
18) CARBON DISULFIDE	2.625	76	5418	0.3049839 ppb #	65
19) METHYLENE CHLORIDE	2.935	84	3112	0.6026001 ppb	88
20) ACRYLONITRILE	3.422	53	1880	1.3189724 ppb #	83
21) n-Hexane	3.075	56	2122	0.3971230 ppb #	71
22) TRANS-1,2-DICHLOROETHENE	3.033	96	1833	0.3431788 ppb #	76
23) METHYL TERT-BUTYL ETHER	3.088	73	3873	0.2922755 ppb	92
24) 1,1-DICHLOROETHANE	3.386	63	2327	0.2378579 ppb #	85
25) VINYL ACETATE	3.501	43	11269	1.3381332 ppb #	95
26) DI-ISOPROPYL ETHER	3.288	45	5117	0.2802011 ppb	88
27) 2,2-Dichloropropane	3.745	77	2394	0.3887580 ppb #	85
28) CIS-1,2-DICHLOROETHENE	3.684	96	1773	0.3177415 ppb #	80
29) 2-BUTANONE (MEK)	4.000	43	2118	0.8843729 ppb	93
30) BROMOCHLOROMETHANE	3.799	130	737	0.2502828 ppb	95
32) CHLOROFORM	3.824	83	2792	0.3137306 ppb #	94
34) 1,1,1-TRICHLOROETHANE	3.958	97	2674	0.3482470 ppb #	84
35) CARBON TETRACHLORIDE	3.927	117	1933	0.2854761 ppb	92
36) 1,1-Dichloropropene	4.018	75	2006	0.2544259 ppb #	77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 15.D
Acq On : 1 May 2015 6:54 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:32:37 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

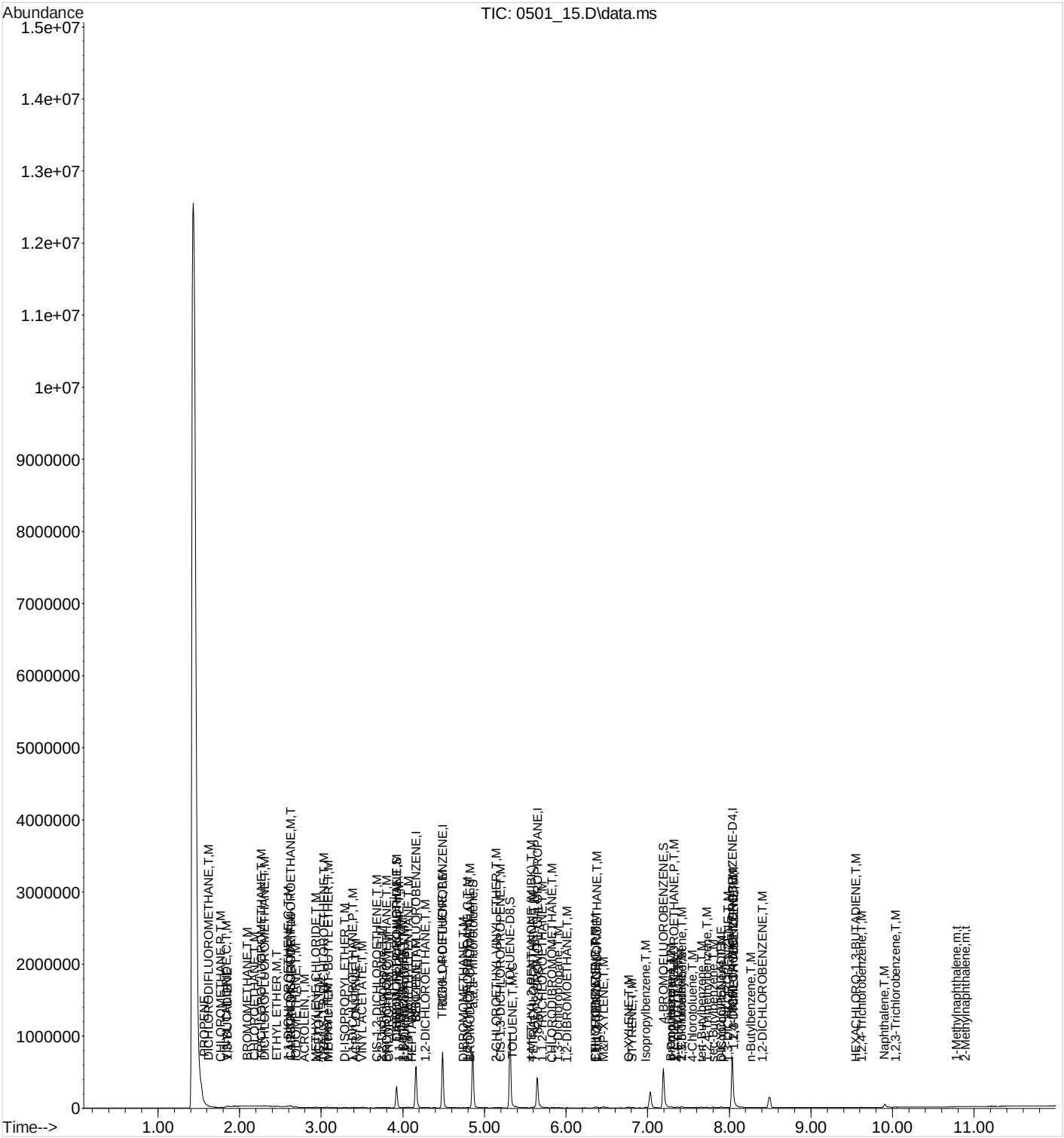
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.067	57	6904	0.2784377 ppb	#	75
38)	HEPTANE	4.110	43	3054	0.2824861 ppb	#	85
39)	BENZENE	4.164	78	5426	0.2467075 ppb	#	8
40)	1,2-DICHLOROETHANE	4.274	62	1431	0.2340734 ppb	#	74
42)	TRICHLOROETHENE	4.481	130	1490	0.2850853 ppb	#	90
43)	1,2-DICHLOROPROPANE	4.797	62	1104	0.2963209 ppb	#	70
44)	DIBROMOMETHANE	4.742	93	862	0.3424198 ppb	#	46
45)	BROMODICHLOROMETHANE	4.821	83	2333	0.3547725 ppb	#	92
47)	2-CHLOROETHYL VINYL ETHER	5.144	63	3117	1.0365695 ppb	#	88
48)	CIS-1,3-DICHLOROPROPENE	5.199	75	2177	0.2593692 ppb	#	60
49)	4-METHYL-2-PENTANONE (...	5.576	58	2172	1.2247604 ppb		79
51)	TOLUENE	5.345	91	7759	0.3359621 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.710	97	1398	0.3653894 ppb	#	74
55)	TETRACHLOROETHENE	5.600	164	1143	0.2956636 ppb		89
56)	1,3-Dichloropropane	5.898	76	1914	0.2713895 ppb	#	88
58)	CHLORODIBROMOMETHANE	5.831	129	846	0.2046772 ppb	#	81
59)	1,2-DIBROMOETHANE	6.014	107	927	0.2518283 ppb		90
60)	CHLOROBENZENE	6.361	112	3067	0.2255662 ppb	#	65
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	1133	0.2635424 ppb	#	91
62)	ETHYLBENZENE	6.361	106	2142	0.2700632 ppb		84
63)	M&P-XYLENE	6.458	106	5664	0.5894333 ppb		95
64)	O-XYLENE	6.768	106	2382	0.2572785 ppb	#	67
65)	STYRENE	6.811	104	3715	0.2586301 ppb		99
67)	Isopropylbenzene	6.975	105	6669	0.2676917 ppb		98
69)	Bromobenzene	7.279	77	3041	0.2988288 ppb	#	86
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	1686	0.3496381 ppb	#	79
73)	n-Propylbenzene	7.285	91	7188	0.2442407 ppb	#	96
74)	4-ETHYLTOLUENE	7.370	105	5927	0.2498428 ppb		95
75)	2-Chlorotoluene	7.413	126	1364	0.2765366 ppb	#	68
76)	4-Chlorotoluene	7.547	91	4115	0.2486779 ppb	#	90
77)	1,3,5-Trimethylbenzene	7.419	105	5417	0.2657086 ppb		98
78)	tert-Butylbenzene	7.662	119	4378	0.2545224 ppb	#	81
79)	1,2,4-Trimethylbenzene	7.723	105	5651	0.2859197 ppb		100
80)	sec-Butylbenzene	7.802	105	6248	0.2269269 ppb		97
81)	1,3-DICHLOROBENZENE	7.985	146	2336	0.2381628 ppb		99
82)	p-Isopropyltoluene	7.906	119	5287	0.2377349 ppb		96
83)	DICYCLOPENTADIENE	7.900	66	6390	0.2486889 ppb		94
85)	1,4-DICHLOROBENZENE	8.052	146	2669	0.2859744 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.058	105	5248	0.2697910 ppb		97
87)	1,2-DICHLOROBENZENE	8.405	146	2076	0.2406111 ppb		93
88)	n-Butylbenzene	8.265	91	4615	0.2349183 ppb	#	57
90)	1,2,4-Trichlorobenzene	9.621	180	879	0.1614179 ppb	#	65
91)	HEXACHLORO-1,3-BUTADIENE	9.548	225	737	0.2318832 ppb	#	19
92)	Naphthalene	9.901	128	3460	0.2444504 ppb	#	72
93)	1,2,3-Trichlorobenzene	10.035	180	1106	0.2163462 ppb	#	86
94)	1-Methylnaphthalene	10.777	142	929	0.1211887 ppb	#	81
95)	2-Methylnaphthalene	10.893	142	1945	0.2860195 ppb	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 15.D
Acq On : 1 May 2015 6:54 pm
Operator : 621
Sample : STD VMS 0.25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:32:37 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 15.D
Acq On    :  1 May 2015   6:54 pm
Operator  : 621
Sample    : STD VMS 0.25 ppb
Misc      : water IS/SURR15C12445
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 02 14:01:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration
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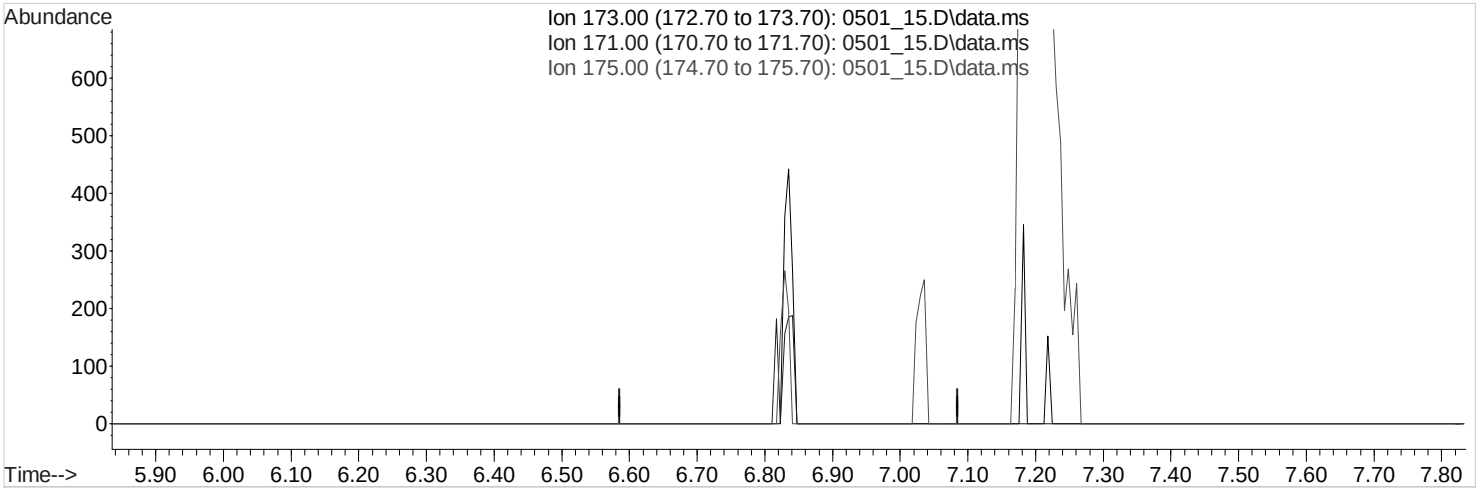
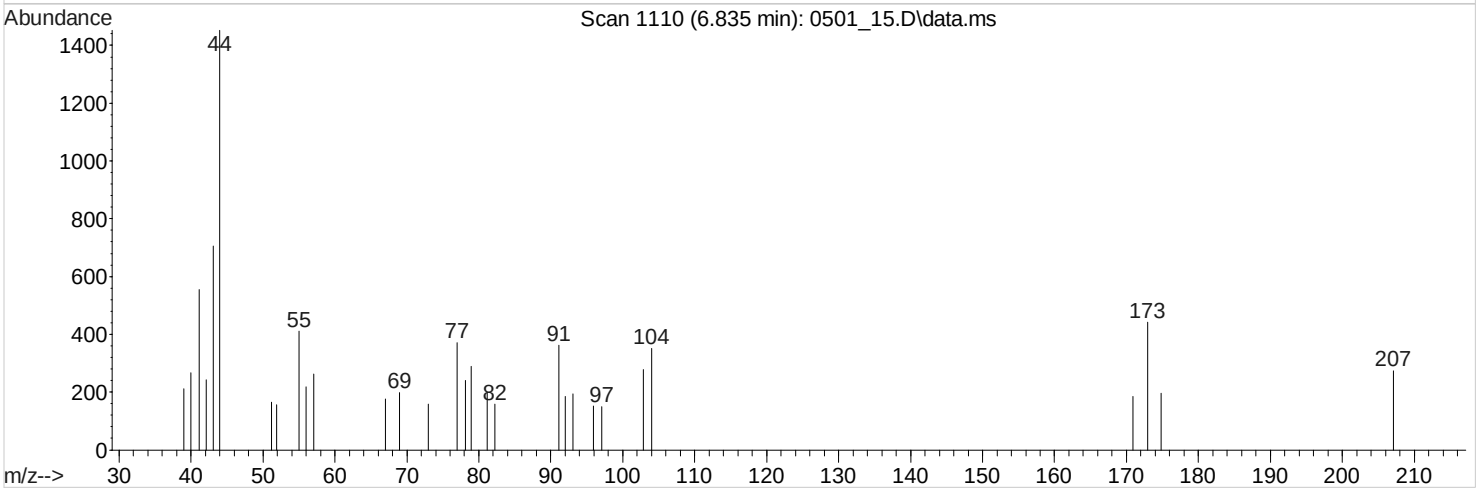




TIC: 0501_15.D\data.ms

(66) Bromoform (T,P,M)

6.835min (-6.835) 0.0000000 ppb

Qvalue = 0

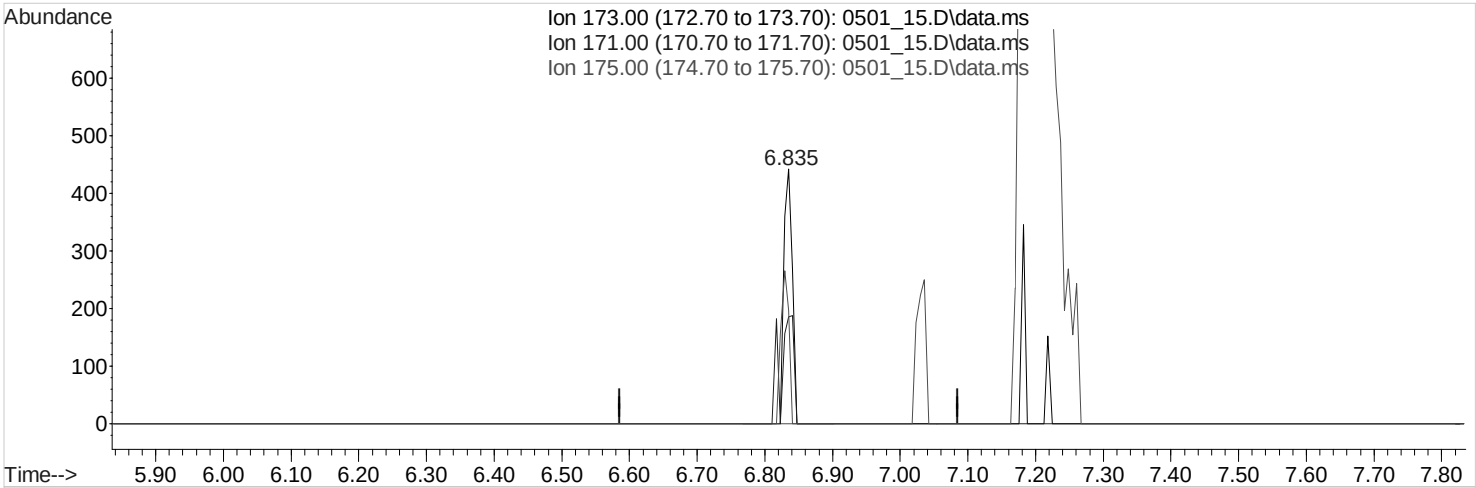
response 0

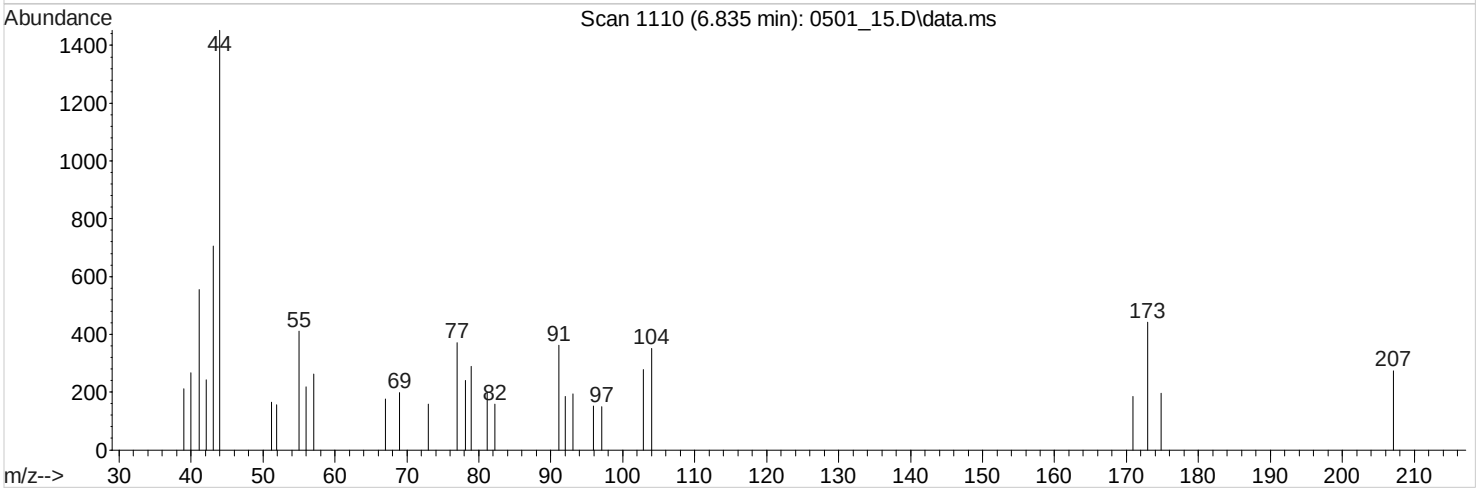
Ion	Exp%	Act%
173.00	100	0.00
171.00	52.90	0.00#
175.00	49.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\050115\
Data File : 0501 15.D
Acq On    :  1 May 2015   6:54 pm
Operator  : 621
Sample    : STD VMS 0.25 ppb
Misc      : water IS/SURR15C12445
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 02 14:01:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration
```





TIC: 0501_15.D\data.ms

(66) Bromoform (T,P,M)

6.835min (+0.000) 0.2165222 ppb m

response 391

Ion	Exp%	Act%
173.00	100	100
171.00	52.90	0.00#
175.00	49.60	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 16.D
Acq On : 1 May 2015 7:14 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.165	168	316188	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	532953	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	81890	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	214180	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.05
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	153862	40.2919662 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.73%		
46) a,a,a-Trifluorotoluene	4.858	146	290874	40.9473241 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.37%		
50) TOLUENE-D8	5.314	98	652129	40.6404039 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.60%		
68) 4-BROMOFLUOROBENZENE	7.194	95	220836	39.4688591 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.67%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-2515444m	Below Cal	
3) PROPENE	1.573	41	1273	1.3822948 ppb #	43
4) DICHLORODIFLUOROMETHANE	1.628	85	3807	0.6559080 ppb	90
5) CHLOROMETHANE	1.768	50	3727	0.5688906 ppb #	93
6) VINYL CHLORIDE	1.841	62	3890	0.5077066 ppb #	78
7) 1,3-BUTADIENE	1.853	39	4844	0.8291024 ppb	91
8) BROMOMETHANE	2.090	94	2878	0.6413237 ppb #	90
9) CHLOROETHANE	2.181	66	1135	0.7932866 ppb #	84
10) TRICHLOROFLUOROMETHANE	2.260	101	3983	0.5036676 ppb #	88
11) DICHLOROFLUOROMETHANE	2.303	67	6251	0.6031765 ppb #	73
12) ETHYL ETHER	2.455	59	2905	0.6181421 ppb	95
13) ACROLEIN	2.796	56	2263	3.7044085 ppb	84
14) 1,1-DICHLOROETHENE	2.595	61	5125	0.5640522 ppb #	69
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	2712	0.5179459 ppb #	56
16) ACETONE	2.966	43	5943	3.5993066 ppb	96
17) IODOMETHANE	2.692	142	20921	2.5699844 ppb	97
18) CARBON DISULFIDE	2.625	76	11303	0.5895871 ppb #	8
19) METHYLENE CHLORIDE	2.936	84	4762	0.8544670 ppb	87
20) ACRYLONITRILE	3.416	53	3845	2.4997151 ppb #	83
21) n-Hexane	3.070	56	3749	0.6501467 ppb #	74
22) TRANS-1,2-DICHLOROETHENE	3.033	96	3536	0.6134605 ppb	84
23) METHYL TERT-BUTYL ETHER	3.088	73	7637	0.5340525 ppb	89
24) 1,1-DICHLOROETHANE	3.386	63	5247	0.4969911 ppb	91
25) VINYL ACETATE	3.501	43	23979	2.6385257 ppb	97
26) DI-ISOPROPYL ETHER	3.282	45	10313	0.5233060 ppb	95
27) 2,2-Dichloropropane	3.745	77	4381	0.6592418 ppb	94
28) CIS-1,2-DICHLOROETHENE	3.684	96	3681	0.6112901 ppb	85
29) 2-BUTANONE (MEK)	4.000	43	4994	1.9322990 ppb	94
30) BROMOCHLOROMETHANE	3.793	130	1416	0.4455979 ppb	83
31) TETRAHYDROFURAN	3.939	42	1450	1.0590215 ppb #	30
32) CHLOROFORM	3.818	83	5449	0.5673807 ppb #	93
34) 1,1,1-TRICHLOROETHANE	3.952	97	4816	0.5812042 ppb	86
35) CARBON TETRACHLORIDE	3.915	117	3528	0.4828173 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 16.D
Acq On : 1 May 2015 7:14 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.019	75	4586	0.5389901 ppb	#	87
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	13115	0.4901306 ppb	#	82
38) HEPTANE	4.104	43	6048	0.5183893 ppb	#	86
39) BENZENE	4.158	78	12638	0.5324725 ppb	#	51
40) 1,2-DICHLOROETHANE	4.274	62	3342	0.5065651 ppb	#	83
42) TRICHLOROETHENE	4.487	130	2844	0.4911111 ppb	#	92
43) 1,2-DICHLOROPROPANE	4.797	62	2192	0.5310010 ppb		90
44) DIBROMOMETHANE	4.742	93	1440	0.5162686 ppb	#	77
45) BROMODICHLOROMETHANE	4.816	83	3809	0.5227666 ppb	#	94
47) 2-CHLOROETHYL VINYL ETHER	5.138	63	6707	2.0130358 ppb		95
48) CIS-1,3-DICHLOROPROPENE	5.199	75	4345	0.4672092 ppb	#	74
49) 4-METHYL-2-PENTANONE (...	5.576	58	4262	2.1690339 ppb		93
51) TOLUENE	5.345	91	14702	0.5745430 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	1091	0.5653366 ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.710	97	2416	0.5734263 ppb	#	87
55) TETRACHLOROETHENE	5.600	164	2283	0.5362774 ppb		93
56) 1,3-Dichloropropane	5.898	76	3887	0.5004925 ppb	#	87
57) 2-HEXANONE	6.136	58	1489	0.8316884 ppb		100
58) CHLORODIBROMOMETHANE	5.831	129	2148	0.4719166 ppb	#	84
59) 1,2-DIBROMOETHANE	6.014	107	1904	0.4697033 ppb		97
60) CHLOROBENZENE	6.355	112	7165	0.4785290 ppb	#	86
61) 1,1,1,2-TETRACHLOROETHANE	6.379	133	2378	0.5023013 ppb	#	90
62) ETHYLBENZENE	6.355	106	4467	0.5114389 ppb		91
63) M&P-XYLENE	6.452	106	11299	1.0677838 ppb		88
64) O-XYLENE	6.762	106	5373	0.5269998 ppb		92
65) STYRENE	6.799	104	7514	0.4750324 ppb		95
66) Bromoform	6.829	173	1347	0.4955686 ppb	#	57
67) Isopropylbenzene	6.975	105	13739	0.5007964 ppb	#	93
69) Bromobenzene	7.279	77	5439	0.4853521 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.328	83	3325	0.6261591 ppb	#	91
71) 1,2,3-TRICHLOROPROPANE	7.444	110	833	0.5551218 ppb	#	24
73) n-Propylbenzene	7.285	91	16652	0.5138168 ppb		98
74) 4-ETHYLTOLUENE	7.365	105	12737	0.4875632 ppb		94
75) 2-Chlorotoluene	7.413	126	2753	0.5068463 ppb	#	82
76) 4-Chlorotoluene	7.541	91	8780	0.4818299 ppb		97
77) 1,3,5-Trimethylbenzene	7.419	105	12534	0.5583010 ppb		96
78) tert-Butylbenzene	7.663	119	9559	0.5046551 ppb		99
79) 1,2,4-Trimethylbenzene	7.717	105	12324	0.5662423 ppb		95
80) sec-Butylbenzene	7.803	105	16150	0.5326591 ppb		96
81) 1,3-DICHLOROBENZENE	7.985	146	4957	0.4589357 ppb		99
82) p-Isopropyltoluene	7.900	119	12648	0.5164607 ppb		96
83) DICYCLOPENTADIENE	7.900	66	13385	0.4730486 ppb		99
85) 1,4-DICHLOROBENZENE	8.052	146	6064	0.5729204 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.058	105	11403	0.5169033 ppb		98
87) 1,2-DICHLOROBENZENE	8.393	146	4423	0.4520242 ppb	#	88
88) n-Butylbenzene	8.265	91	11383	0.5109264 ppb		92
90) 1,2,4-Trichlorobenzene	9.615	180	2715	0.4396319 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.549	225	1838	0.5099220 ppb		92
92) Naphthalene	9.889	128	8370	0.5214308 ppb		99
93) 1,2,3-Trichlorobenzene	10.029	180	2599	0.4482877 ppb		89
94) 1-Methylnaphthalene	10.777	142	2648	0.3045937 ppb	#	92
95) 2-Methylnaphthalene	10.881	142	5326	0.6906114 ppb	#	65

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 16.D
Acq On : 1 May 2015 7:14 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

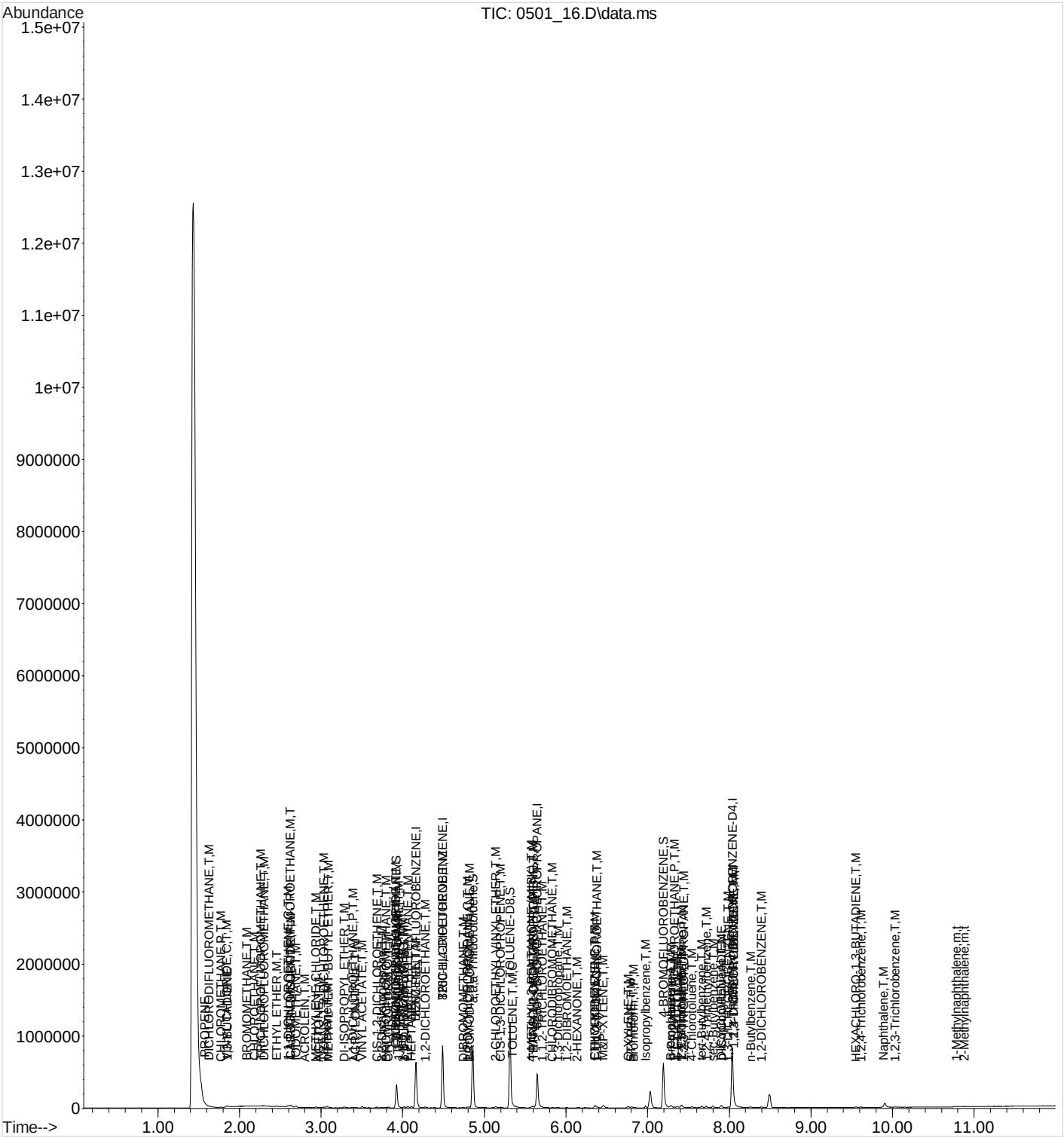
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 16.D
Acq On : 1 May 2015 7:14 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 17.D
Acq On : 1 May 2015 7:34 pm
Operator : 621
Sample : STD VMS 1 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	323122	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	537438	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	81624	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	207849	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	159010	40.7465066	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.87%			
46) a,a,a-Trifluorotoluene	4.858	146	304832	42.5541303	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.39%			
50) TOLUENE-D8	5.314	98	674689	41.6954507	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.24%			
68) 4-BROMOFLUOROBENZENE	7.194	95	224646	40.2806424	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.70%			

Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-2371564m	Below Cal			
3) PROPENE	1.573	41	1454	1.5449540	ppb	#	63
4) DICHLORODIFLUOROMETHANE	1.622	85	6926	1.1676734	ppb		93
5) CHLOROMETHANE	1.762	50	7663	1.1445823	ppb		97
6) VINYL CHLORIDE	1.835	62	8568	1.0942625	ppb		98
7) 1,3-BUTADIENE	1.853	39	8692	1.4558030	ppb		81
8) BROMOMETHANE	2.084	94	5857	1.2771461	ppb	#	79
9) CHLOROETHANE	2.175	66	1916	1.3104142	ppb		91
10) TRICHLOROFLUOROMETHANE	2.267	101	8390	1.0381845	ppb	#	95
11) DICHLOROFLUOROMETHANE	2.303	67	11952	1.1285333	ppb		89
12) ETHYL ETHER	2.455	59	5329	1.1096007	ppb		92
13) ACROLEIN	2.796	56	3642	5.8338212	ppb		95
14) 1,1-DICHLOROETHENE	2.589	61	10158	1.0939878	ppb	#	91
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	5787	1.0815013	ppb	#	87
16) ACETONE	2.966	43	9917	5.8772245	ppb		96
17) IODOMETHANE	2.686	142	42802	5.1450661	ppb		99
18) CARBON DISULFIDE	2.625	76	21959	1.1208453	ppb	#	44
19) METHYLENE CHLORIDE	2.936	84	8085	1.4195960	ppb		91
20) ACRYLONITRILE	3.416	53	8274	5.2636686	ppb	#	86
21) n-Hexane	3.070	56	6458	1.0959048	ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.033	96	6568	1.1150294	ppb		94
23) METHYL TERT-BUTYL ETHER	3.082	73	15774	1.0793986	ppb		93
24) 1,1-DICHLOROETHANE	3.380	63	10828	1.0036093	ppb		92
25) VINYL ACETATE	3.501	43	46867	5.0463373	ppb		99
26) DI-ISOPROPYL ETHER	3.282	45	20973	1.0413822	ppb		100
27) 2,2-Dichloropropane	3.745	77	7947	1.1701824	ppb	#	85
28) CIS-1,2-DICHLOROETHENE	3.684	96	6712	1.0907176	ppb		96
29) 2-BUTANONE (MEK)	3.994	43	11585	4.3863238	ppb		91
30) BROMOCHLOROMETHANE	3.793	130	3459	1.0651463	ppb		98
31) TETRAHYDROFURAN	3.939	42	1527	1.0913264	ppb	#	81
32) CHLOROFORM	3.818	83	11045	1.1253881	ppb		100
34) 1,1,1-TRICHLOROETHANE	3.958	97	9263	1.0938877	ppb		95
35) CARBON TETRACHLORIDE	3.915	117	7385	0.9889711	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 17.D
Acq On : 1 May 2015 7:34 pm
Operator : 621
Sample : STD VMS 1 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.019	75	9170	1.0546175 ppb		95
37)	2,2,4-TRIMETHYLPENTANE	4.061	57	28054	1.0259288 ppb		93
38)	HEPTANE	4.104	43	11871	0.9956586 ppb	#	90
39)	BENZENE	4.158	78	26157	1.0784142 ppb	#	76
40)	1,2-DICHLOROETHANE	4.274	62	7031	1.0428569 ppb		95
42)	TRICHLOROETHENE	4.487	130	6134	1.0503993 ppb		96
43)	1,2-DICHLOROPROPANE	4.797	62	4202	1.0094188 ppb		98
44)	DIBROMOMETHANE	4.743	93	2895	1.0292535 ppb		96
45)	BROMODICHLOROMETHANE	4.816	83	8415	1.1452795 ppb	#	89
47)	2-CHLOROETHYL VINYL ETHER	5.138	63	14186	4.2222476 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.199	75	9105	0.9708723 ppb	#	91
49)	4-METHYL-2-PENTANONE (...	5.570	58	9262	4.6743175 ppb		88
51)	TOLUENE	5.345	91	29390	1.1389542 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.606	110	1617	0.8309080 ppb	#	1
54)	1,1,2-TRICHLOROETHANE	5.710	97	4396	1.0467702 ppb	#	87
55)	TETRACHLOROETHENE	5.600	164	4335	1.0216112 ppb		96
56)	1,3-Dichloropropane	5.898	76	7671	0.9909414 ppb		91
57)	2-HEXANONE	6.130	58	6458	3.6189033 ppb		97
58)	CHLORODIBROMOMETHANE	5.838	129	4419	0.9740201 ppb		95
59)	1,2-DIBROMOETHANE	6.014	107	4256	1.0533466 ppb		94
60)	CHLOROBENZENE	6.355	112	15075	1.0100954 ppb		94
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	5014	1.0625509 ppb	#	98
62)	ETHYLBENZENE	6.355	106	9063	1.0410290 ppb		96
63)	M&P-XYLENE	6.452	106	22973	2.1780811 ppb		89
64)	O-XYLENE	6.762	106	10636	1.0466101 ppb		99
65)	STYRENE	6.799	104	15572	0.9876645 ppb		98
66)	Bromoform	6.829	173	2535	0.9356796 ppb		94
67)	Isopropylbenzene	6.975	105	27868	1.0191190 ppb		99
69)	Bromobenzene	7.279	77	11481	1.0278520 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	5927	1.1198014 ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.444	110	1345	0.8992462 ppb	#	51
72)	TRANS-1,4-DICHLORO-2-B...	7.480	53	1291	0.9712889 ppb	#	60
73)	n-Propylbenzene	7.279	91	33092	1.0244196 ppb		99
74)	4-ETHYLTOLUENE	7.358	105	25784	0.9902094 ppb		96
75)	2-Chlorotoluene	7.407	126	6192	1.1437051 ppb		87
76)	4-Chlorotoluene	7.541	91	17974	0.9895938 ppb		99
77)	1,3,5-Trimethylbenzene	7.413	105	23433	1.0471757 ppb		97
78)	tert-Butylbenzene	7.663	119	19548	1.0353746 ppb		100
79)	1,2,4-Trimethylbenzene	7.717	105	23080	1.0638967 ppb		99
80)	sec-Butylbenzene	7.796	105	31041	1.0271303 ppb		98
81)	1,3-DICHLOROBENZENE	7.985	146	11018	1.0234078 ppb		94
82)	p-Isopropyltoluene	7.900	119	23885	0.9784839 ppb		99
83)	DICYCLOPENTADIENE	7.900	66	28722	1.0183922 ppb		99
85)	1,4-DICHLOROBENZENE	8.052	146	11864	1.1550406 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.058	105	22873	1.0684255 ppb		98
87)	1,2-DICHLOROBENZENE	8.393	146	9727	1.0243648 ppb		97
88)	n-Butylbenzene	8.247	91	20306	0.9391975 ppb		93
89)	1,2-Dibromo-3-chloropr...	9.050	157	922	0.9953166 ppb	#	76
90)	1,2,4-Trichlorobenzene	9.609	180	5307	0.8855221 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	3538	1.0114560 ppb		95
92)	Naphthalene	9.871	128	14164	0.9092600 ppb		94
93)	1,2,3-Trichlorobenzene	10.017	180	5688	1.0109766 ppb		85
94)	1-Methylnaphthalene	10.753	142	3928	0.4655918 ppb	#	89
95)	2-Methylnaphthalene	10.875	142	6637	0.8868198 ppb	#	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 17.D
Acq On : 1 May 2015 7:34 pm
Operator : 621
Sample : STD VMS 1 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

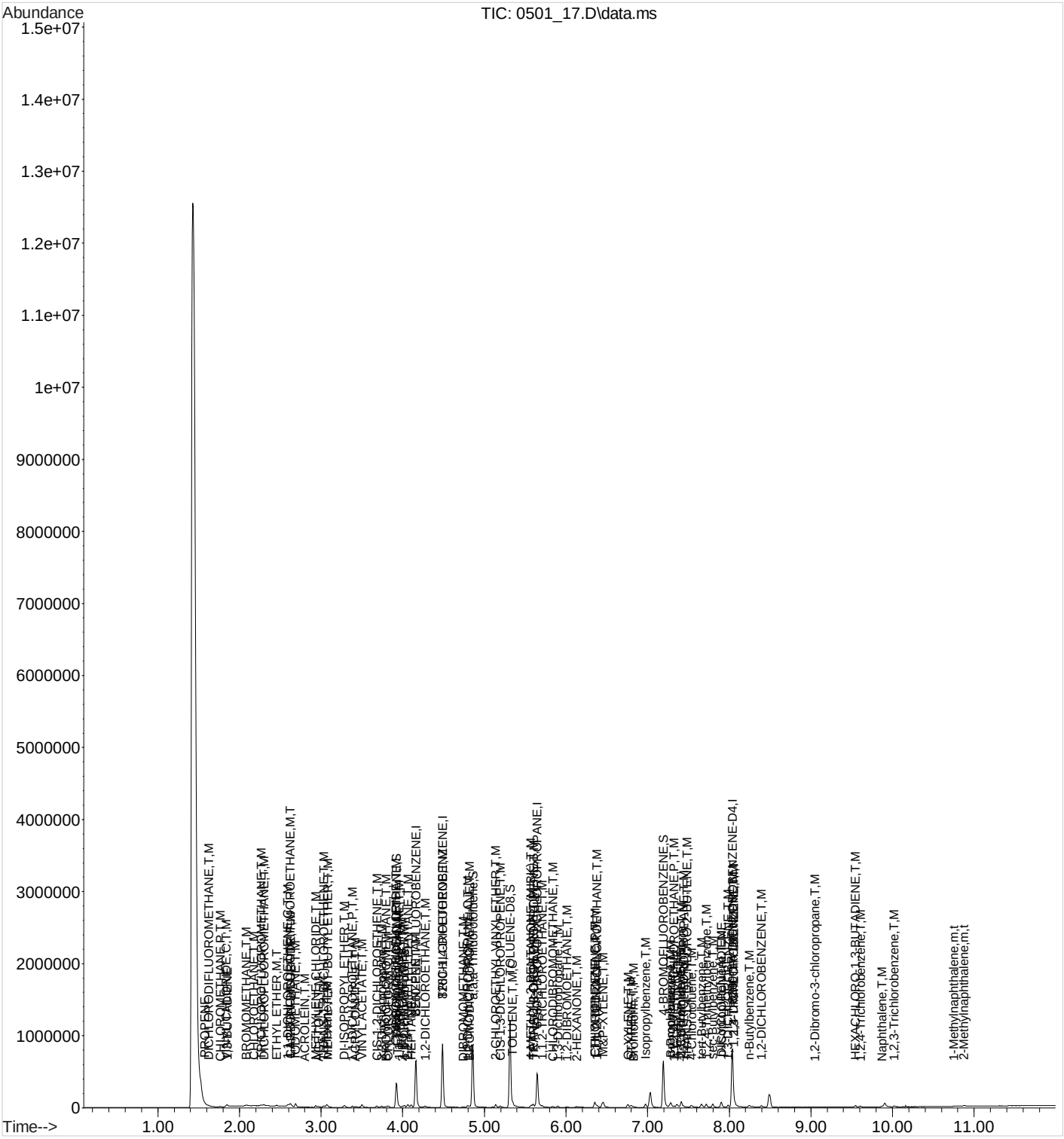
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 17.D
Acq On : 1 May 2015 7:34 pm
Operator : 621
Sample : STD VMS 1 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On : 1 May 2015 7:54 pm
Operator : 621
Sample : STD VMS 2 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:39:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	331932	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	552951	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	86302	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	214850	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	165210	41.2116193	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.03%			
46) a,a,a-Trifluorotoluene	4.858	146	315216	42.7692012	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.92%			
50) TOLUENE-D8	5.314	98	717957	43.1246119	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.81%			
68) 4-BROMOFLUOROBENZENE	7.194	95	237495	40.2762643	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.69%			

Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-2078323m	Below Cal			
3) PROPENE	1.567	41	2562	2.6500109	ppb	#	80
4) DICHLORODIFLUOROMETHANE	1.622	85	13430	2.2041052	ppb		93
5) CHLOROMETHANE	1.768	50	15490	2.2522523	ppb		99
6) VINYL CHLORIDE	1.841	62	16999	2.1134056	ppb		99
7) 1,3-BUTADIENE	1.853	39	14585	2.3779720	ppb		93
8) BROMOMETHANE	2.084	94	10631	2.2566119	ppb		97
9) CHLOROETHANE	2.181	66	3660	2.4367534	ppb		92
10) TRICHLOROFLUOROMETHANE	2.266	101	16377	1.9727149	ppb		96
11) DICHLOROFLUOROMETHANE	2.303	67	23232	2.1353928	ppb		92
12) ETHYL ETHER	2.455	59	10598	2.1481388	ppb		97
13) ACROLEIN	2.796	56	6570	10.2446223	ppb		97
14) 1,1-DICHLOROETHENE	2.589	61	20238	2.1217258	ppb		90
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	11644	2.1183278	ppb	#	91
16) ACETONE	2.966	43	17934	10.3463350	ppb		97
17) IODOMETHANE	2.692	142	85051	9.9523062	ppb		99
18) CARBON DISULFIDE	2.625	76	43719	2.1723046	ppb	#	72
19) METHYLENE CHLORIDE	2.936	84	13303	2.2737972	ppb		97
20) ACRYLONITRILE	3.416	53	15089	9.3443885	ppb		98
21) n-Hexane	3.069	56	12883	2.1281842	ppb		97
22) TRANS-1,2-DICHLOROETHENE	3.033	96	12511	2.0675814	ppb		98
23) METHYL TERT-BUTYL ETHER	3.082	73	30684	2.0439459	ppb		96
24) 1,1-DICHLOROETHANE	3.386	63	22147	1.9982450	ppb		100
25) VINYL ACETATE	3.495	43	93482	9.7983855	ppb		100
26) DI-ISOPROPYL ETHER	3.282	45	41209	1.9918612	ppb		97
27) 2,2-Dichloropropane	3.745	77	16061	2.3021857	ppb		96
28) CIS-1,2-DICHLOROETHENE	3.684	96	13066	2.0669046	ppb		96
29) 2-BUTANONE (MEK)	3.994	43	25862	9.5320028	ppb		99
30) BROMOCHLOROMETHANE	3.793	130	6803	2.0392787	ppb		97
31) TETRAHYDROFURAN	3.933	42	3623	2.5205851	ppb	#	79
32) CHLOROFORM	3.818	83	21464	2.1289461	ppb		100
34) 1,1,1-TRICHLOROETHANE	3.952	97	18201	2.0923472	ppb		97
35) CARBON TETRACHLORIDE	3.921	117	15027	1.9589476	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On : 1 May 2015 7:54 pm
Operator : 621
Sample : STD VMS 2 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:39:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.018	75	18181	2.0354517 ppb		96
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	56119	1.9977896 ppb		92
38) HEPTANE	4.104	43	23678	1.9332390 ppb	#	97
39) BENZENE	4.158	78	50958	2.0451607 ppb	#	87
40) 1,2-DICHLOROETHANE	4.274	62	13984	2.0190936 ppb	#	94
42) TRICHLOROETHENE	4.487	130	12161	2.0240520 ppb		97
43) 1,2-DICHLOROPROPANE	4.797	62	8685	2.0278083 ppb		96
44) DIBROMOMETHANE	4.742	93	6013	2.0778142 ppb		96
45) BROMODICHLOROMETHANE	4.822	83	15944	2.1090962 ppb		95
47) 2-CHLOROETHYL VINYL ETHER	5.138	63	31681	9.1648286 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.199	75	18538	1.9212626 ppb		90
49) 4-METHYL-2-PENTANONE (...	5.570	58	18526	9.0873407 ppb		88
51) TOLUENE	5.345	91	56371	2.1232646 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.606	110	3888	1.9418287 ppb	#	4
54) 1,1,2-TRICHLOROETHANE	5.710	97	9086	2.0462722 ppb		96
55) TETRACHLOROETHENE	5.600	164	8999	2.0058009 ppb		98
56) 1,3-Dichloropropane	5.898	76	16346	1.9971216 ppb		99
57) 2-HEXANONE	6.123	58	13265	7.0304513 ppb		92
58) CHLORODIBROMOMETHANE	5.831	129	9150	1.9074890 ppb		95
59) 1,2-DIBROMOETHANE	6.014	107	7764	1.8174070 ppb		96
60) CHLOROBENZENE	6.355	112	30889	1.9575187 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.385	133	9504	1.9048854 ppb	#	98
62) ETHYLBENZENE	6.355	106	19079	2.0727334 ppb		97
63) M&P-XYLENE	6.446	106	45372	4.0685651 ppb		98
64) O-XYLENE	6.756	106	21054	1.9594682 ppb		95
65) STYRENE	6.799	104	32394	1.9432410 ppb		94
66) Bromoform	6.829	173	5682	1.9835696 ppb		94
67) Isopropylbenzene	6.975	105	60178	2.0813918 ppb		98
69) Bromobenzene	7.279	77	23736	2.0098119 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.322	83	10878	1.9438025 ppb		93
71) 1,2,3-TRICHLOROPROPANE	7.444	110	3010	1.9033551 ppb		94
72) TRANS-1,4-DICHLORO-2-B...	7.468	53	2532	1.8017017 ppb	#	73
73) n-Propylbenzene	7.279	91	66026	1.9331559 ppb		99
74) 4-ETHYLTOLUENE	7.352	105	52926	1.9223960 ppb		97
75) 2-Chlorotoluene	7.407	126	11612	2.0285566 ppb		97
76) 4-Chlorotoluene	7.535	91	35840	1.8662819 ppb		98
77) 1,3,5-Trimethylbenzene	7.413	105	44835	1.8949854 ppb		96
78) tert-Butylbenzene	7.663	119	38941	1.9507395 ppb		98
79) 1,2,4-Trimethylbenzene	7.711	105	45291	1.9745701 ppb		96
80) sec-Butylbenzene	7.796	105	63866	1.9987412 ppb		99
81) 1,3-DICHLOROBENZENE	7.985	146	20638	1.8130533 ppb		99
82) p-Isopropyltoluene	7.900	119	49504	1.9180757 ppb		100
83) DICYCLOPENTADIENE	7.900	66	56438	1.8926443 ppb		100
85) 1,4-DICHLOROBENZENE	8.046	146	21970	2.0692298 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.058	105	43743	1.9767068 ppb		97
87) 1,2-DICHLOROBENZENE	8.386	146	20043	2.0419779 ppb		96
88) n-Butylbenzene	8.240	91	41989	1.8788005 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.037	157	1731	1.8077566 ppb		90
90) 1,2,4-Trichlorobenzene	9.591	180	10890	1.7578863 ppb		94
91) HEXACHLORO-1,3-BUTADIENE	9.542	225	7083	1.9589304 ppb		97
92) Naphthalene	9.865	128	28970	1.7991329 ppb		99
93) 1,2,3-Trichlorobenzene	10.011	180	10323	1.7750069 ppb		99
94) 1-Methylnaphthalene	10.753	142	13593m	1.5586972 ppb		
95) 2-Methylnaphthalene	10.869	142	13008	1.6814604 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On : 1 May 2015 7:54 pm
Operator : 621
Sample : STD VMS 2 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:39:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

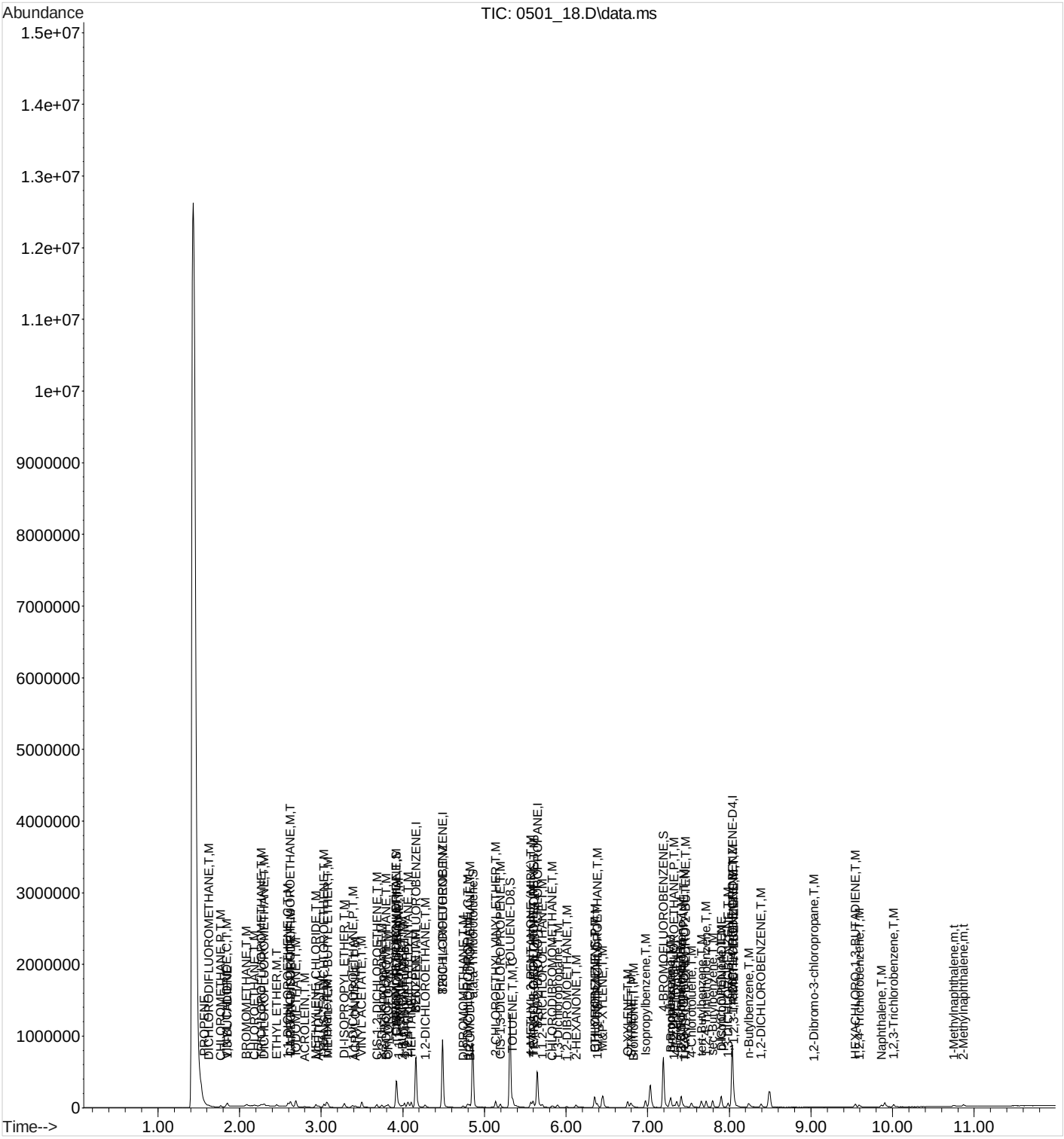
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On : 1 May 2015 7:54 pm
Operator : 621
Sample : STD VMS 2 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:39:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On    :  1 May 2015   7:54 pm
Operator  : 621
Sample    : STD VMS 2 ppb 15D23602
Misc      : water IS/SURR15C12445
ALS Vial  : 6   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 15:33:40 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration
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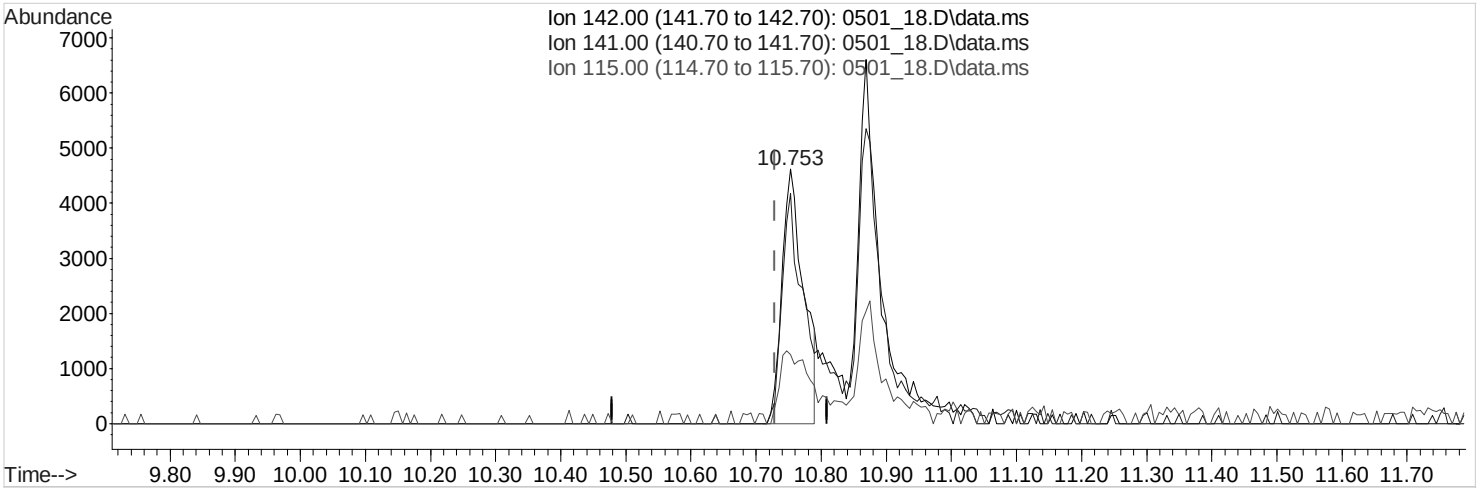

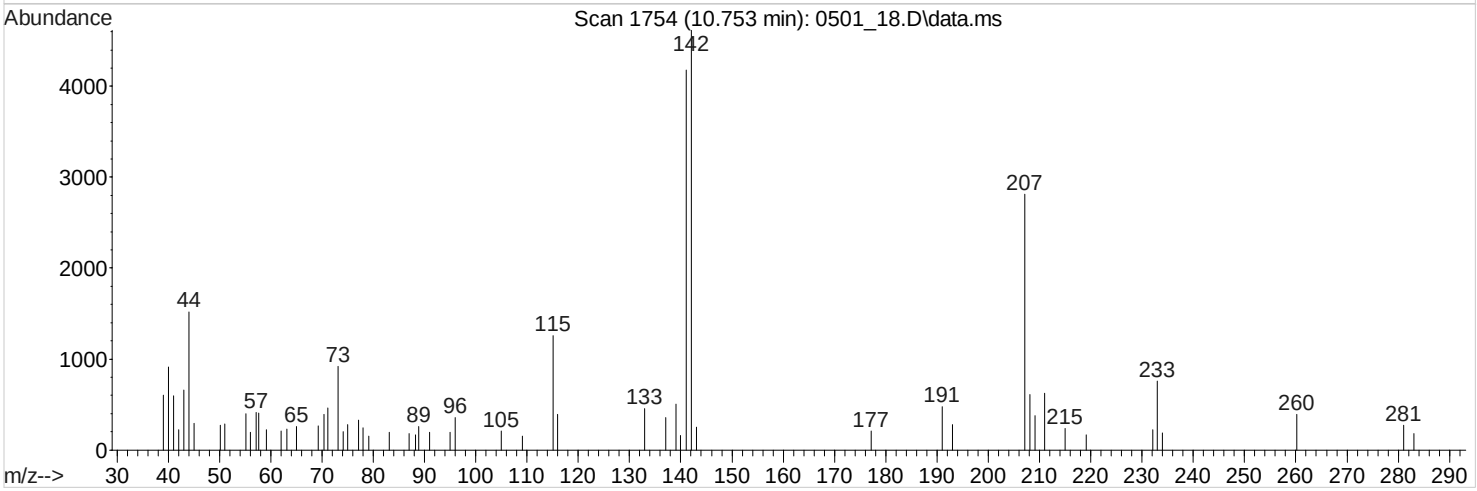

TIC: 0501_18.D\data.ms

(94) 1-Methylnaphthalene (m,t)

10.753min (+0.024) 1.2297115 ppb

Qvalue = 98

response 10724

Ion	Exp%	Act%
142.00	100	100
141.00	86.90	86.56
115.00	32.30	35.72
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\050115\
Data File : 0501 18.D
Acq On    :  1 May 2015   7:54 pm
Operator  : 621
Sample    : STD VMS 2 ppb 15D23602
Misc      : water IS/SURR15C12445
ALS Vial  : 6   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 15:33:40 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration
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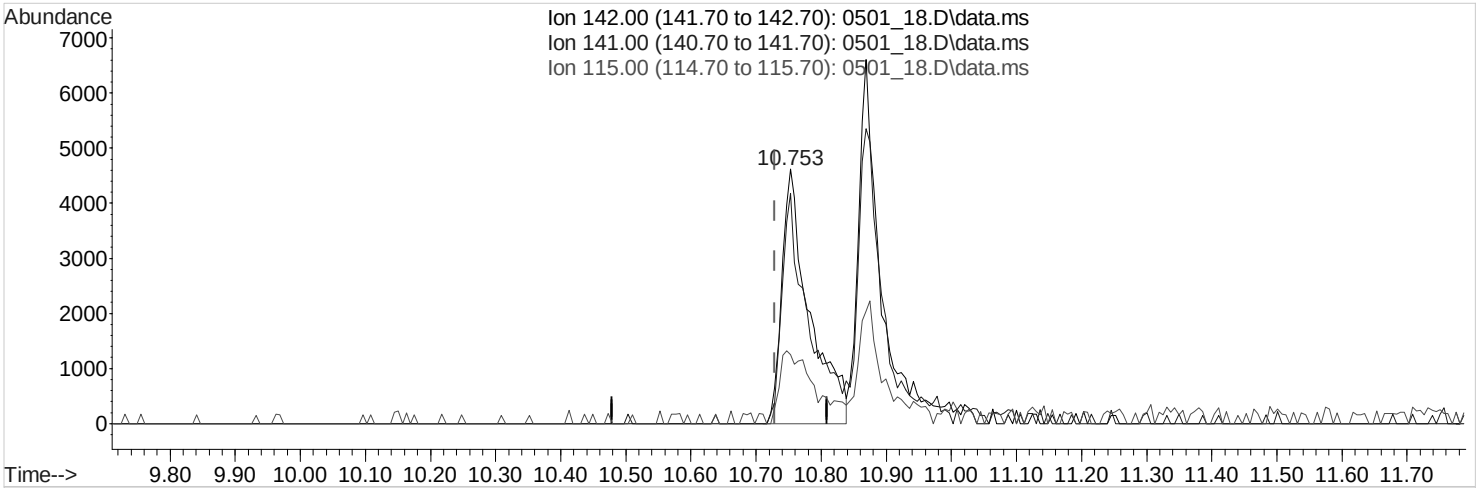
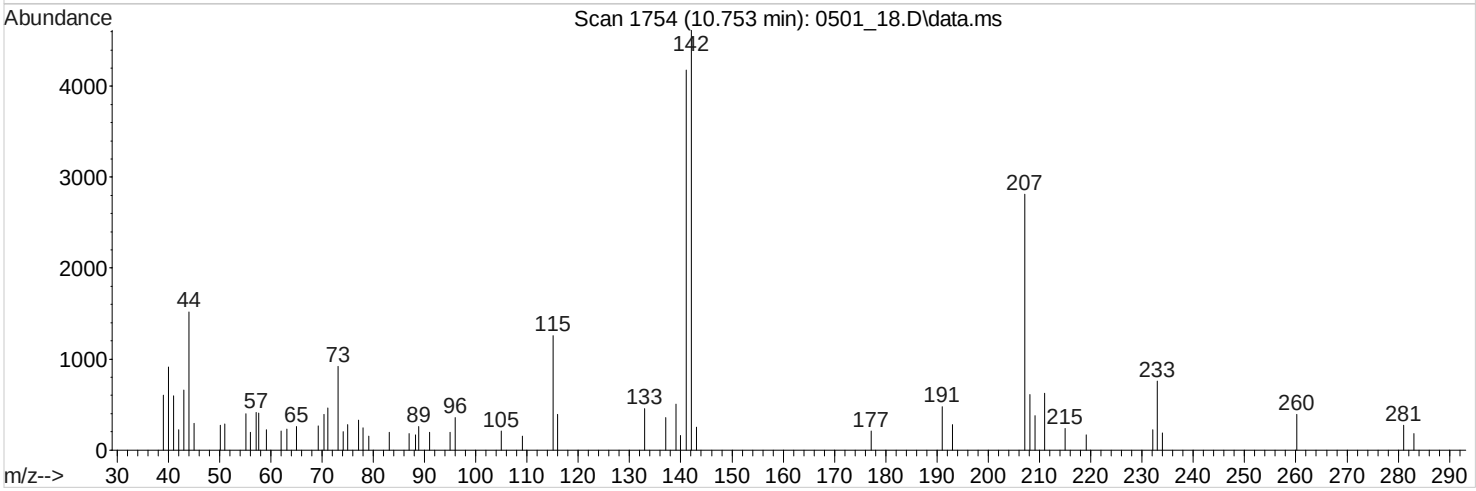




TIC: 0501_18.D\data.ms

(94) 1-Methylnaphthalene (m,t)

10.753min (+0.024) 1.5586972 ppb m

response 13593

Ion	Exp%	Act%
142.00	100	100
141.00	86.90	68.29#
115.00	32.30	28.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 19.D
Acq On : 1 May 2015 8:15 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:56 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	293713	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	492458	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	77847	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	206234	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	156539	44.1297896	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.32%			
46) a,a,a-Trifluorotoluene	4.858	146	288490	43.9512367	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.88%			
50) TOLUENE-D8	5.314	98	643179	43.3786540	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.45%			
68) 4-BROMOFLUOROBENZENE	7.194	95	226071	42.5028983	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.26%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-1340589m	Below Cal		
3) PROPENE	1.567	41	6525	7.6273735	ppb #	90
4) DICHLORODIFLUOROMETHANE	1.622	85	31103	5.7687875	ppb	97
5) CHLOROMETHANE	1.762	50	36458	5.9907944	ppb	99
6) VINYL CHLORIDE	1.841	62	41380	5.8140119	ppb	100
7) 1,3-BUTADIENE	1.853	39	32697	6.0246825	ppb	98
8) BROMOMETHANE	2.084	94	25740	6.1747199	ppb	97
9) CHLOROETHANE	2.175	66	8392	6.3142522	ppb	95
10) TRICHLOROFLUOROMETHANE	2.267	101	41050	5.5881634	ppb #	96
11) DICHLOROFLUOROMETHANE	2.303	67	57371	5.9594963	ppb	100
12) ETHYL ETHER	2.455	59	23652	5.4179158	ppb	96
13) ACROLEIN	2.796	56	17094	30.1231396	ppb	96
14) 1,1-DICHLOROETHENE	2.589	61	47289	5.6028339	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	28016	5.7600074	ppb	98
16) ACETONE	2.960	43	46941	30.6046671	ppb	100
17) IODOMETHANE	2.686	142	203917	26.9664447	ppb	99
18) CARBON DISULFIDE	2.619	76	99375	5.5802493	ppb #	86
19) METHYLENE CHLORIDE	2.936	84	29756	5.7478132	ppb	98
20) ACRYLONITRILE	3.410	53	40545	28.3761642	ppb	98
21) n-Hexane	3.063	56	30859	5.7610283	ppb	91
22) TRANS-1,2-DICHLOROETHENE	3.033	96	29159	5.4458938	ppb	99
23) METHYL TERT-BUTYL ETHER	3.082	73	73782	5.5543571	ppb	97
24) 1,1-DICHLOROETHANE	3.380	63	52301	5.3329777	ppb	99
25) VINYL ACETATE	3.495	43	236668	28.0344489	ppb	100
26) DI-ISOPROPYL ETHER	3.282	45	95560	5.2199831	ppb	98
27) 2,2-Dichloropropane	3.745	77	35376	5.7306309	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.678	96	30430	5.4400850	ppb	98
29) 2-BUTANONE (MEK)	3.988	43	66889	27.8613856	ppb	100
30) BROMOCHLOROMETHANE	3.793	130	15659	5.3047643	ppb	98
31) TETRAHYDROFURAN	3.933	42	9258	7.2790744	ppb	90
32) CHLOROFORM	3.818	83	49343	5.5310235	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.952	97	42616	5.5365233	ppb	99
35) CARBON TETRACHLORIDE	3.915	117	35943	5.2953029	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 19.D
Acq On : 1 May 2015 8:15 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:56 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.019	75	43767	5.5375258 ppb		97
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	130830	5.2634817 ppb		92
38) HEPTANE	4.104	43	56533	5.2163717 ppb	#	97
39) BENZENE	4.159	78	119449	5.4178070 ppb		97
40) 1,2-DICHLOROETHANE	4.274	62	31771	5.1842016 ppb		99
42) TRICHLOROETHENE	4.481	130	28300	5.2887894 ppb		95
43) 1,2-DICHLOROPROPANE	4.797	62	19818	5.1955836 ppb		99
44) DIBROMOMETHANE	4.736	93	14311	5.5526838 ppb		96
45) BROMODICHLOROMETHANE	4.816	83	36429	5.4108289 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.138	63	76682	24.9078561 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.199	75	43768	5.0932854 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.564	58	49266	27.1343800 ppb		96
51) TOLUENE	5.345	91	126349	5.3436456 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	9014	5.0549825 ppb		89
54) 1,1,2-TRICHLOROETHANE	5.704	97	20607	5.1449886 ppb		97
55) TETRACHLOROETHENE	5.600	164	21365	5.2792892 ppb		98
56) 1,3-Dichloropropane	5.892	76	37545	5.0853881 ppb		98
57) 2-HEXANONE	6.111	58	43827	25.7511527 ppb		99
58) CHLORODIBROMOMETHANE	5.832	129	22189	5.1281138 ppb		98
59) 1,2-DIBROMOETHANE	6.008	107	19449	5.0471118 ppb		98
60) CHLOROBENZENE	6.349	112	72993	5.1281683 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.385	133	24000	5.3327675 ppb	#	99
62) ETHYLBENZENE	6.349	106	43302	5.2152458 ppb		99
63) M&P-XYLENE	6.446	106	104902	10.4283618 ppb		99
64) O-XYLENE	6.756	106	50496	5.2100220 ppb		99
65) STYRENE	6.793	104	73477	4.8864390 ppb		98
66) Bromoform	6.829	173	13555	5.2459568 ppb		99
67) Isopropylbenzene	6.969	105	140604	5.3912907 ppb		99
69) Bromobenzene	7.279	77	55133	5.1753352 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.322	83	28675	5.6804861 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.438	110	7817	5.4798972 ppb	#	69
72) TRANS-1,4-DICHLORO-2-B...	7.462	53	5242	4.1351872 ppb	#	94
73) n-Propylbenzene	7.273	91	163372	5.3028397 ppb		100
74) 4-ETHYLTOLUENE	7.352	105	130835	5.2683753 ppb		98
75) 2-Chlorotoluene	7.407	126	28094	5.4409240 ppb		99
76) 4-Chlorotoluene	7.529	91	90955	5.2506709 ppb		100
77) 1,3,5-Trimethylbenzene	7.413	105	112408	5.2670191 ppb		99
78) tert-Butylbenzene	7.657	119	97593	5.4198820 ppb		99
79) 1,2,4-Trimethylbenzene	7.711	105	108984	5.2674737 ppb		99
80) sec-Butylbenzene	7.796	105	153184	5.3147058 ppb		98
81) 1,3-DICHLOROBENZENE	7.985	146	53572	5.2174680 ppb		100
82) p-Isopropyltoluene	7.900	119	121752	5.2297451 ppb		99
83) DICYCLOPENTADIENE	7.900	66	143810	5.3464494 ppb		100
85) 1,4-DICHLOROBENZENE	8.052	146	54370	5.3347381 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.052	105	110046	5.1806357 ppb		98
87) 1,2-DICHLOROBENZENE	8.387	146	51262	5.4407523 ppb		97
88) n-Butylbenzene	8.235	91	112424	5.2405788 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.025	157	5168	5.6226427 ppb		94
90) 1,2,4-Trichlorobenzene	9.585	180	32442	5.4556387 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.542	225	19307	5.5627770 ppb		96
92) Naphthalene	9.859	128	84408	5.4610161 ppb		100
93) 1,2,3-Trichlorobenzene	10.011	180	30948	5.5437264 ppb		99
94) 1-Methylnaphthalene	10.741	142	41719	4.9837405 ppb		99
95) 2-Methylnaphthalene	10.863	142	42239	5.6880689 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 19.D
Acq On : 1 May 2015 8:15 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:56 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

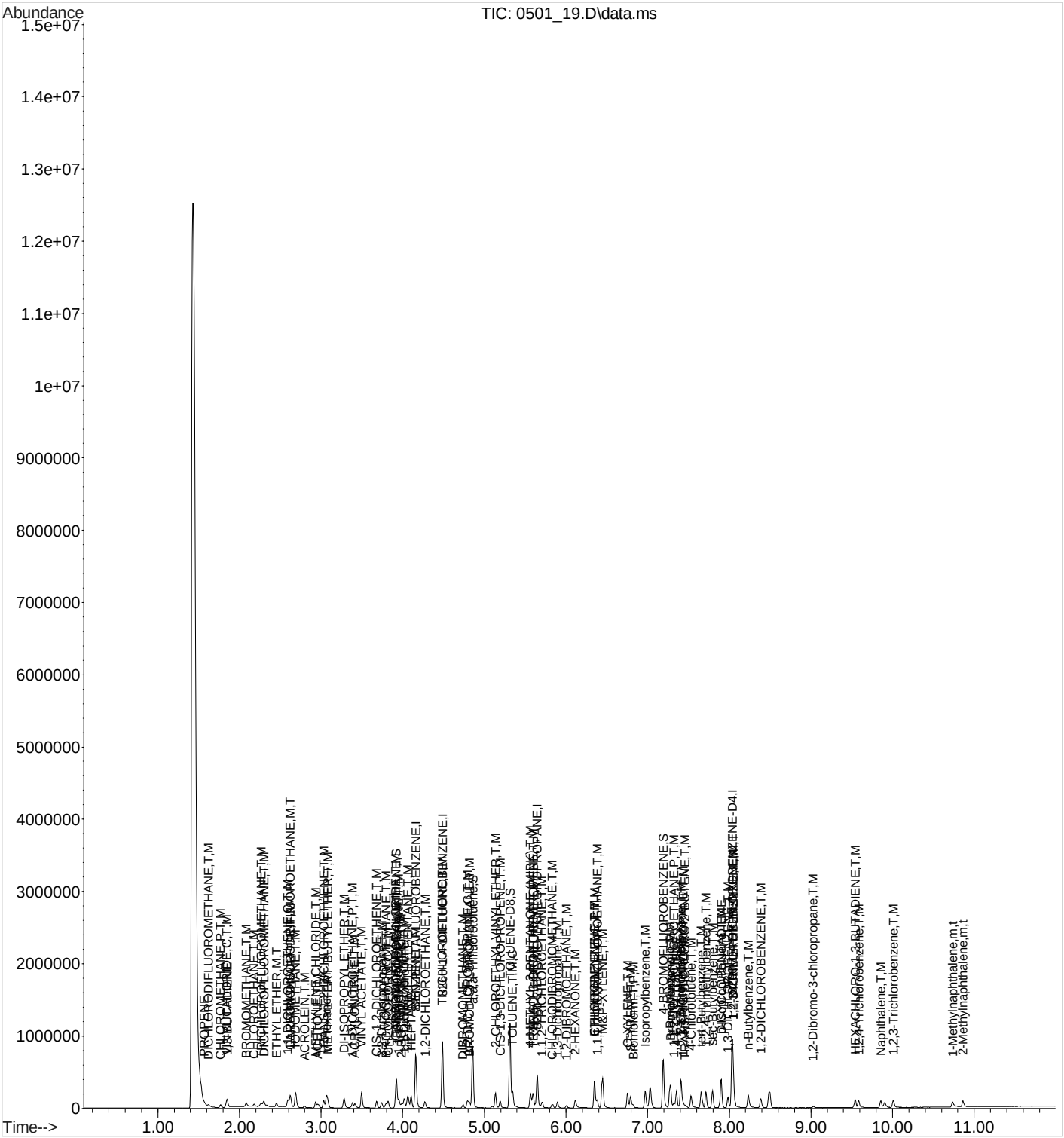
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 19.D
Acq On : 1 May 2015 8:15 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:33:56 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 20.D
Acq On : 1 May 2015 8:35 pm
Operator : 621
Sample : STD VMS 10 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	343259	40.0000000 ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	581116	40.0000000 ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	90173	40.0000000 ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	233722	40.0000000 ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb		-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb		-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb		-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb		-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	182508	44.0242985 ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.06%			
46) a,a,a-Trifluorotoluene	4.858	146	341395	44.0761707 ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 110.19%			
50) TOLUENE-D8	5.314	98	779339	44.5427463 ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 111.36%#			
68) 4-BROMOFLUOROBENZENE	7.188	95	269378	43.7221165 ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 109.31%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	-1054794m	Below Cal		
3) PROPENE	1.573	41	10792	10.7943791 ppb		90
4) DICHLORODIFLUOROMETHANE	1.622	85	65010	10.3172431 ppb		99
5) CHLOROMETHANE	1.768	50	74773	10.5132651 ppb		100
6) VINYL CHLORIDE	1.841	62	84316	10.1367016 ppb		98
7) 1,3-BUTADIENE	1.853	39	65539	10.3330209 ppb		99
8) BROMOMETHANE	2.084	94	50709	10.4086643 ppb		99
9) CHLOROETHANE	2.181	66	16515	10.6325214 ppb		95
10) TRICHLOROFLUOROMETHANE	2.266	101	86098	10.0288292 ppb		99
11) DICHLOROFLUOROMETHANE	2.303	67	115835	10.2957544 ppb		96
12) ETHYL ETHER	2.455	59	54274	10.6379378 ppb		98
13) ACROLEIN	2.796	56	37266	56.1914904 ppb		98
14) 1,1-DICHLOROETHENE	2.589	61	100477	10.1862778 ppb		99
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	57810	10.1700039 ppb		98
16) ACETONE	2.960	43	100843	56.2577445 ppb		98
17) IODOMETHANE	2.686	142	439969	49.7844338 ppb		100
18) CARBON DISULFIDE	2.625	76	216251	10.3904851 ppb	#	95
19) METHYLENE CHLORIDE	2.936	84	61251	10.1237758 ppb		98
20) ACRYLONITRILE	3.410	53	92172	55.1971470 ppb		99
21) n-Hexane	3.063	56	63743	10.1824408 ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.033	96	61934	9.8975318 ppb		98
23) METHYL TERT-BUTYL ETHER	3.082	73	162415	10.4619045 ppb		97
24) 1,1-DICHLOROETHANE	3.380	63	112474	9.8132566 ppb		98
25) VINYL ACETATE	3.495	43	553605	56.1117382 ppb		100
26) DI-ISOPROPYL ETHER	3.282	45	212413	9.9283089 ppb		100
27) 2,2-Dichloropropane	3.745	77	75832	10.5110829 ppb		99
28) CIS-1,2-DICHLOROETHENE	3.678	96	66075	10.1074625 ppb		100
29) 2-BUTANONE (MEK)	3.988	43	152332	54.2925684 ppb		100
30) BROMOCHLOROMETHANE	3.793	130	35187	10.1996566 ppb		96
31) TETRAHYDROFURAN	3.927	42	21313	14.3385358 ppb	#	80
32) CHLOROFORM	3.818	83	105745	10.1424069 ppb		97
34) 1,1,1-TRICHLOROETHANE	3.952	97	91123	10.1296326 ppb		99
35) CARBON TETRACHLORIDE	3.915	117	76549	9.6497761 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 20.D
Acq On : 1 May 2015 8:35 pm
Operator : 621
Sample : STD VMS 10 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.018	75	93516	10.1240933 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.061	57	284114	9.7804683 ppb		96
38)	HEPTANE	4.104	43	120635	9.5244753 ppb	#	94
39)	BENZENE	4.158	78	259323	10.0642933 ppb		99
40)	1,2-DICHLOROETHANE	4.274	62	73005	10.1930661 ppb		98
42)	TRICHLOROETHENE	4.481	130	63249	10.0168199 ppb		99
43)	1,2-DICHLOROPROPANE	4.797	62	45345	10.0741934 ppb		98
44)	DIBROMOMETHANE	4.742	93	31009	10.1959356 ppb		99
45)	BROMODICHLOROMETHANE	4.815	83	80279	10.1047336 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.132	63	185232	50.9876853 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.193	75	100739	9.9344839 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.564	58	116401	54.3294959 ppb		99
51)	TOLUENE	5.345	91	280498	10.0531455 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.600	110	20651	9.8140791 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.704	97	47841	10.3118185 ppb		98
55)	TETRACHLOROETHENE	5.600	164	47966	10.2322565 ppb		99
56)	1,3-Dichloropropane	5.892	76	87597	10.2429861 ppb		98
57)	2-HEXANONE	6.111	58	105767	53.6500930 ppb		99
58)	CHLORODIBROMOMETHANE	5.831	129	51513	10.2778466 ppb		96
59)	1,2-DIBROMOETHANE	6.008	107	47122	10.5568592 ppb		97
60)	CHLOROBENZENE	6.348	112	164079	9.9517490 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	52730	10.1149686 ppb	#	99
62)	ETHYLBENZENE	6.348	106	95616	9.9417482 ppb		99
63)	M&P-XYLENE	6.446	106	237054	20.3444040 ppb		98
64)	O-XYLENE	6.750	106	112285	10.0016047 ppb		99
65)	STYRENE	6.786	104	176584	10.1381281 ppb		99
66)	Bromoform	6.823	173	31026	10.3661225 ppb		99
67)	Isopropylbenzene	6.969	105	305016	10.0967839 ppb		100
69)	Bromobenzene	7.279	77	124929	10.1240780 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	61166	10.4606221 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.437	110	17596	10.6490684 ppb	#	76
72)	TRANS-1,4-DICHLORO-2-B...	7.456	53	13571	9.2422003 ppb	#	95
73)	n-Propylbenzene	7.273	91	357135	10.0075703 ppb		100
74)	4-ETHYLTOLUENE	7.352	105	287594	9.9976505 ppb		99
75)	2-Chlorotoluene	7.407	126	62731	10.4883376 ppb		98
76)	4-Chlorotoluene	7.529	91	201380	10.0362142 ppb		99
77)	1,3,5-Trimethylbenzene	7.413	105	249557	10.0949179 ppb		98
78)	tert-Butylbenzene	7.656	119	210761	10.1047780 ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	241801	10.0893476 ppb		99
80)	sec-Butylbenzene	7.796	105	337708	10.1151548 ppb		100
81)	1,3-DICHLOROBENZENE	7.985	146	119325	10.0327210 ppb		99
82)	p-Isopropyltoluene	7.894	119	270134	10.0172620 ppb		100
83)	DICYCLOPENTADIENE	7.894	66	312404	10.0267070 ppb		99
85)	1,4-DICHLOROBENZENE	8.046	146	118386	10.2497858 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	248120	10.3069752 ppb		100
87)	1,2-DICHLOROBENZENE	8.386	146	111944	10.4839491 ppb		99
88)	n-Butylbenzene	8.228	91	247004	10.1597935 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.031	157	11725	11.2561923 ppb		98
90)	1,2,4-Trichlorobenzene	9.579	180	70383	10.4439896 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	40651	10.3349589 ppb		99
92)	Naphthalene	9.853	128	188114	10.7391927 ppb		100
93)	1,2,3-Trichlorobenzene	10.005	180	67870	10.7277272 ppb		100
94)	1-Methylnaphthalene	10.735	142	98628	10.3963869 ppb		98
95)	2-Methylnaphthalene	10.862	142	94182	11.1912810 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 20.D
Acq On : 1 May 2015 8:35 pm
Operator : 621
Sample : STD VMS 10 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

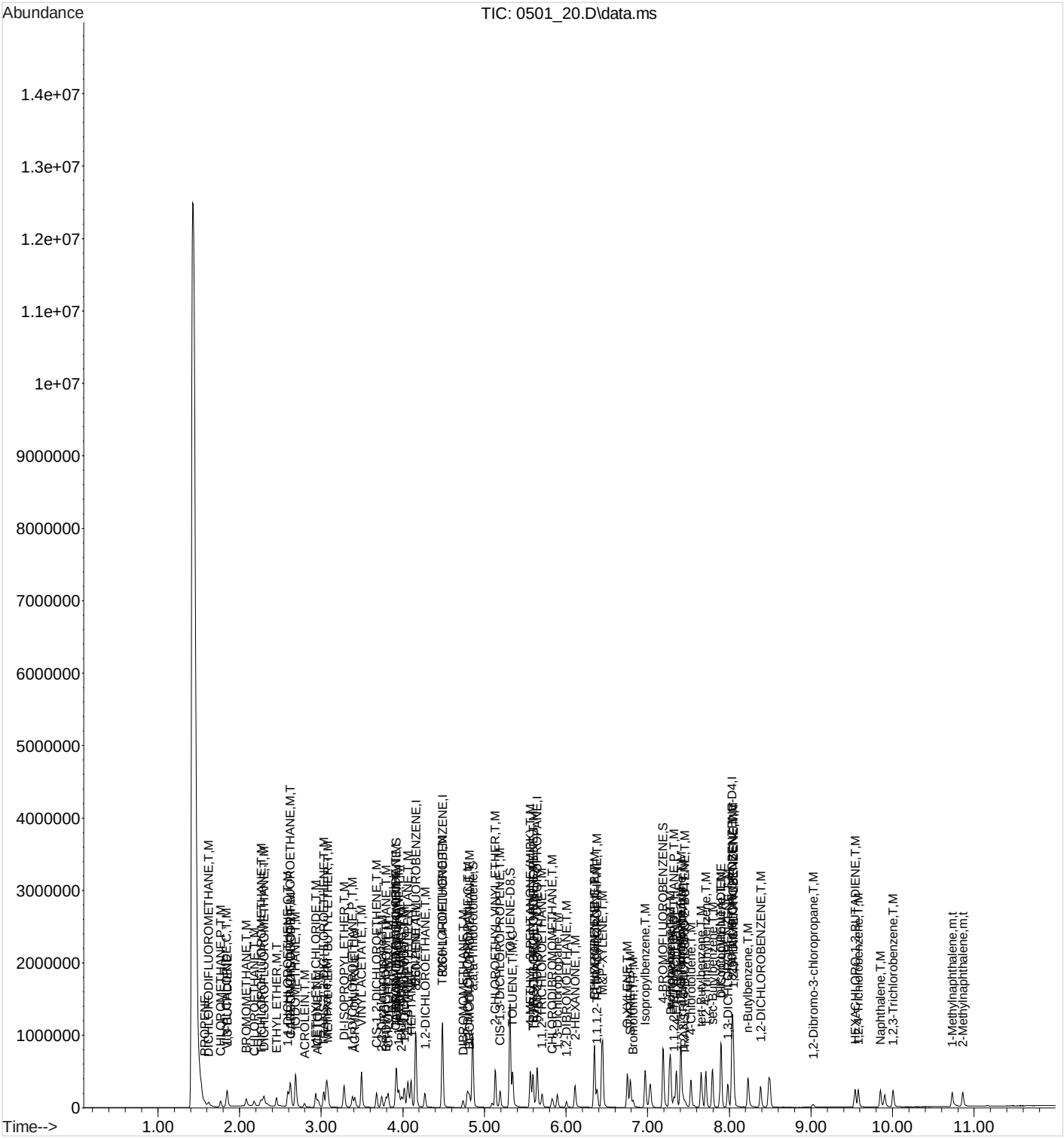
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 20.D
Acq On : 1 May 2015 8:35 pm
Operator : 621
Sample : STD VMS 10 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 21.D
Acq On : 1 May 2015 8:55 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	341824	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	576150	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	89780	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	238405	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	185773	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	4.852	146	345572	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.50%			
50) TOLUENE-D8	5.314	98	780611	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.50%#			
68) 4-BROMOFLUOROBENZENE	7.188	95	276501	45.0746826	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.69%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	4271032m	10.0034304	ppm	
3) PROPENE	1.573	41	24890	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.622	85	156869	25.0000000	ppb	100
5) CHLOROMETHANE	1.768	50	177063	25.0000000	ppb	100
6) VINYL CHLORIDE	1.841	62	207078	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.853	39	157904	25.0000000	ppb	100
8) BROMOMETHANE	2.084	94	121286	25.0000000	ppb	100
9) CHLOROETHANE	2.181	66	38669	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.260	101	213729	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.303	67	280093	25.0000000	ppb	100
12) ETHYL ETHER	2.449	59	127015	25.0000000	ppb	100
13) ACROLEIN	2.790	56	82553	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.589	61	245568	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	141515	25.0000000	ppb	100
16) ACETONE	2.960	43	223128	125.0000000	ppb	100
17) IODOMETHANE	2.686	142	1100067	125.0000000	ppb	100
18) CARBON DISULFIDE	2.619	76	518135	25.0000000	ppb	100
19) METHYLENE CHLORIDE	2.936	84	150623	25.0000000	ppb	100
20) ACRYLONITRILE	3.410	53	207861	125.0000000	ppb	100
21) n-Hexane	3.063	56	155848	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.027	96	155784	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.082	73	386488	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.380	63	285338	25.0000000	ppb	100
25) VINYL ACETATE	3.495	43	1228109	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.276	45	532631	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.745	77	179608	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.678	96	162748	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	3.982	43	349254	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.793	130	85822	24.9816615	ppb	100
31) TETRAHYDROFURAN	3.921	42	37005	25.0000000	ppb	100
32) CHLOROFORM	3.818	83	259561	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.952	97	223952	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	3.915	117	190449	24.1088111	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 21.D
Acq On : 1 May 2015 8:55 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.019	75	229959	25.0000000	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	685233	23.6877966	ppb		97
38) HEPTANE	4.104	43	315321	25.0000000	ppb	#	100
39) BENZENE	4.158	78	640956	24.9798511	ppb		100
40) 1,2-DICHLOROETHANE	4.268	62	178307	25.0000000	ppb		100
42) TRICHLOROETHENE	4.481	130	156240	24.9571907	ppb		100
43) 1,2-DICHLOROPROPANE	4.791	62	111566	25.0000000	ppb		100
44) DIBROMOMETHANE	4.736	93	75383	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	4.815	83	196920	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.132	63	450229	125.0000000	ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.193	75	251342	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.564	58	265400	124.9416249	ppb		100
51) TOLUENE	5.345	91	691577	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.594	110	51898	24.8763325	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.704	97	115672	25.0414903	ppb		100
55) TETRACHLOROETHENE	5.600	164	116876	25.0414903	ppb		100
56) 1,3-Dichloropropane	5.892	76	213219	25.0414903	ppb		100
57) 2-HEXANONE	6.105	58	245761	125.2074515	ppb		100
58) CHLORODIBROMOMETHANE	5.831	129	124962	25.0414903	ppb		100
59) 1,2-DIBROMOETHANE	6.008	107	111289	25.0414903	ppb		100
60) CHLOROBENZENE	6.349	112	411071	25.0414903	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.385	133	129974	25.0414903	ppb		100
62) ETHYLBENZENE	6.349	106	239790	25.0414903	ppb		100
63) M&P-XYLENE	6.446	106	581026	50.0829806	ppb		100
64) O-XYLENE	6.750	106	279495	25.0045420	ppb		100
65) STYRENE	6.787	104	440097	25.3776703	ppb		99
66) Bromoform	6.823	173	74623	25.0414903	ppb		100
67) Isopropylbenzene	6.969	105	753187	25.0414903	ppb		100
69) Bromobenzene	7.279	77	307660	25.0414903	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.322	83	145786	25.0414903	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.437	110	41197	25.0414903	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.456	53	36610	25.0414903	ppb	#	100
73) n-Propylbenzene	7.273	91	889748	25.0414903	ppb		100
74) 4-ETHYLTOLUENE	7.352	105	717208	25.0414903	ppb		100
75) 2-Chlorotoluene	7.407	126	155967	26.1911208	ppb		99
76) 4-Chlorotoluene	7.529	91	497594	24.9072419	ppb		100
77) 1,3,5-Trimethylbenzene	7.413	105	616354	25.0414903	ppb		100
78) tert-Butylbenzene	7.657	119	520028	25.0414903	ppb		100
79) 1,2,4-Trimethylbenzene	7.711	105	597528	25.0414903	ppb		100
80) sec-Butylbenzene	7.796	105	832400	25.0414903	ppb		100
81) 1,3-DICHLOROBENZENE	7.979	146	296535	25.0414903	ppb		100
82) p-Isopropyltoluene	7.894	119	672347	25.0414903	ppb		100
83) DICYCLOPENTADIENE	7.894	66	776822	25.0414903	ppb		100
85) 1,4-DICHLOROBENZENE	8.046	146	294538	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.052	105	613884	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.380	146	272290	25.0000000	ppb		100
88) n-Butylbenzene	8.228	91	619976	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.025	157	26563	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.579	180	171853	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.542	225	100304	25.0000000	ppb		100
92) Naphthalene	9.853	128	446978	25.0161746	ppb		100
93) 1,2,3-Trichlorobenzene	10.005	180	161334	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.729	142	243579	25.1713369	ppb		100
95) 2-Methylnaphthalene	10.856	142	215217	25.0710601	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 21.D
Acq On : 1 May 2015 8:55 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

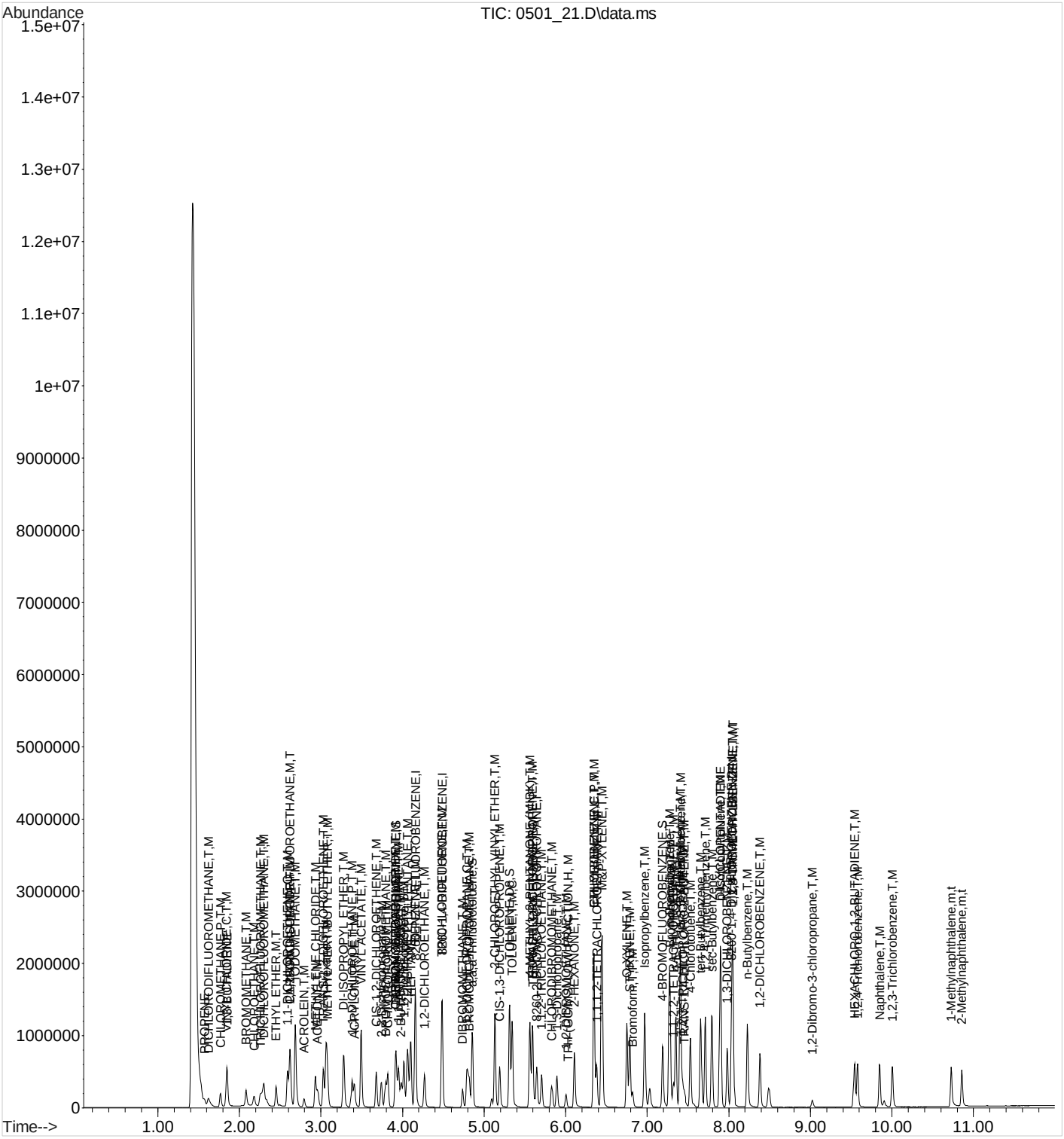
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 21.D
Acq On : 1 May 2015 8:55 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 22.D
Acq On : 1 May 2015 9:15 pm
Operator : 621
Sample : STD VMS 40 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.165	168	346380	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	587198	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	90625	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	244844	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.05
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	195090	46.6352890 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 116.59%		
46) a,a,a-Trifluorotoluene	4.852	146	355706	45.4481445 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 113.62%		
50) TOLUENE-D8	5.314	98	794323	44.9289204 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.32%#		
68) 4-BROMOFLUOROBENZENE	7.188	95	284599	45.9622120 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 114.91%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	10935565m	25.2759277 ppm	
3) PROPENE	1.579	41	39479	39.1319058 ppb	98
4) DICHLORODIFLUOROMETHANE	1.628	85	250812	39.4458152 ppb	99
5) CHLOROMETHANE	1.768	50	280641	39.1032679 ppb	99
6) VINYL CHLORIDE	1.847	62	330246	39.3453449 ppb	99
7) 1,3-BUTADIENE	1.853	39	247917	38.7349437 ppb	99
8) BROMOMETHANE	2.084	94	190039	38.6564364 ppb	99
9) CHLOROETHANE	2.181	66	62205	39.6873504 ppb	99
10) TRICHLOROFLUOROMETHANE	2.267	101	344610	39.7790287 ppb	99
11) DICHLOROFLUOROMETHANE	2.303	67	444403	39.1439348 ppb	98
12) ETHYL ETHER	2.449	59	199134	38.6794382 ppb	99
13) ACROLEIN	2.790	56	127795	190.9592759 ppb	99
14) 1,1-DICHLOROETHENE	2.589	61	389089	39.0901136 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	229130	39.9456261 ppb	99
16) ACETONE	2.960	43	332834	184.0065865 ppb	99
17) IODOMETHANE	2.686	142	1770397	198.5232083 ppb	100
18) CARBON DISULFIDE	2.619	76	851261	40.5330757 ppb	99
19) METHYLENE CHLORIDE	2.936	84	237797	38.9497640 ppb	99
20) ACRYLONITRILE	3.410	53	317398	188.3609754 ppb	99
21) n-Hexane	3.063	56	244177	38.6538959 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.033	96	249071	39.4448280 ppb	99
23) METHYL TERT-BUTYL ETHER	3.082	73	600343	38.3224432 ppb	100
24) 1,1-DICHLOROETHANE	3.380	63	451708	39.0560144 ppb	99
25) VINYL ACETATE	3.495	43	2172761	218.2402248 ppb	100
26) DI-ISOPROPYL ETHER	3.282	45	836087	38.7270828 ppb	100
27) 2,2-Dichloropropane	3.745	77	284299	39.0516518 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.678	96	260852	39.5428770 ppb	99
29) 2-BUTANONE (MEK)	3.988	43	499576	176.4492979 ppb	97
30) BROMOCHLOROMETHANE	3.793	130	136133	39.1053204 ppb	98
31) TETRAHYDROFURAN	3.921	42	63724	42.4846821 ppb	87
32) CHLOROFORM	3.818	83	412879	39.2439857 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.952	97	357400	39.3721704 ppb	98
35) CARBON TETRACHLORIDE	3.915	117	299292	37.3888365 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 22.D
Acq On : 1 May 2015 9:15 pm
Operator : 621
Sample : STD VMS 40 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.019	75	367732	39.4521581 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	1073087	36.6075845 ppb		98
38) HEPTANE	4.104	43	489748	38.3185908 ppb	#	100
39) BENZENE	4.159	78	1011291	38.8944392 ppb		100
40) 1,2-DICHLOROETHANE	4.268	62	278401	38.5205208 ppb		100
42) TRICHLOROETHENE	4.481	130	246294	38.6018659 ppb		100
43) 1,2-DICHLOROPROPANE	4.791	62	176335	38.7701666 ppb		97
44) DIBROMOMETHANE	4.736	93	116710	37.9774376 ppb		100
45) BROMODICHLOROMETHANE	4.816	83	310818	38.7175031 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.132	63	659477	179.6499911 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.193	75	391086	38.1678951 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.564	58	392914	181.4908494 ppb		99
51) TOLUENE	5.345	91	1074215	38.1014653 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.594	110	80700	37.9542370 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.704	97	174793	37.4875920 ppb		99
55) TETRACHLOROETHENE	5.600	164	184425	39.1458931 ppb		99
56) 1,3-Dichloropropane	5.892	76	318052	37.0053045 ppb		98
57) 2-HEXANONE	6.105	58	358944	181.1654972 ppb		99
58) CHLORODIBROMOMETHANE	5.831	129	193713	38.4567477 ppb		98
59) 1,2-DIBROMOETHANE	6.008	107	168957	37.6630687 ppb		100
60) CHLOROBENZENE	6.349	112	640864	38.6759322 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.379	133	204332	39.0006329 ppb	#	100
62) ETHYLBENZENE	6.349	106	379880	39.3013180 ppb		99
63) M&P-XYLENE	6.446	106	922796	78.8010284 ppb		98
64) O-XYLENE	6.750	106	441428	39.1233756 ppb		100
65) STYRENE	6.787	104	692571	39.5639120 ppb		99
66) Bromoform	6.823	173	116375	38.6882194 ppb		100
67) Isopropylbenzene	6.969	105	1187756	39.1215606 ppb		100
69) Bromobenzene	7.279	77	489232	39.4489614 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.322	83	226015	38.4603468 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.438	110	62493	37.6320204 ppb	#	83
72) TRANS-1,4-DICHLORO-2-B...	7.456	53	57253	38.7962967 ppb	#	99
73) n-Propylbenzene	7.273	91	1421408	39.6317718 ppb		100
74) 4-ETHYLTOLUENE	7.352	105	1153601	39.9026971 ppb		100
75) 2-Chlorotoluene	7.407	126	249672	41.5358197 ppb		99
76) 4-Chlorotoluene	7.529	91	813108	40.3209094 ppb		99
77) 1,3,5-Trimethylbenzene	7.407	105	983734	39.5948969 ppb		98
78) tert-Butylbenzene	7.657	119	822483	39.2366531 ppb		100
79) 1,2,4-Trimethylbenzene	7.711	105	960653	39.8841220 ppb		100
80) sec-Butylbenzene	7.790	105	1306964	38.9514211 ppb		99
81) 1,3-DICHLOROBENZENE	7.979	146	480154	40.1694924 ppb		100
82) p-Isopropyltoluene	7.894	119	1056923	38.9979368 ppb		99
83) DICYCLOPENTADIENE	7.894	66	1224007	39.0889620 ppb		100
85) 1,4-DICHLOROBENZENE	8.046	146	477259	39.4437952 ppb	#	75
86) 1,2,3-TRIMETHYLBENZENE	8.052	105	972462	38.5613498 ppb		100
87) 1,2-DICHLOROBENZENE	8.381	146	439724	39.3110261 ppb		100
88) n-Butylbenzene	8.228	91	1001314	39.3152746 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.025	157	41106	37.6698593 ppb		97
90) 1,2,4-Trichlorobenzene	9.579	180	282562	40.0241890 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.542	225	156757	38.0429856 ppb		99
92) Naphthalene	9.847	128	694088	37.8246728 ppb		99
93) 1,2,3-Trichlorobenzene	10.005	180	258143	38.9493625 ppb		98
94) 1-Methylnaphthalene	10.729	142	390801	39.3231228 ppb		100
95) 2-Methylnaphthalene	10.857	142	337850	38.3218037 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 22.D
Acq On : 1 May 2015 9:15 pm
Operator : 621
Sample : STD VMS 40 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:42 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 22.D
Acq On : 1 May 2015 9:15 pm
Operator : 621
Sample : STD VMS 40 ppb 15D23602
Misc : water IS/SURR15C12445
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QLast Update : Sun May 03 15:30:45 2015
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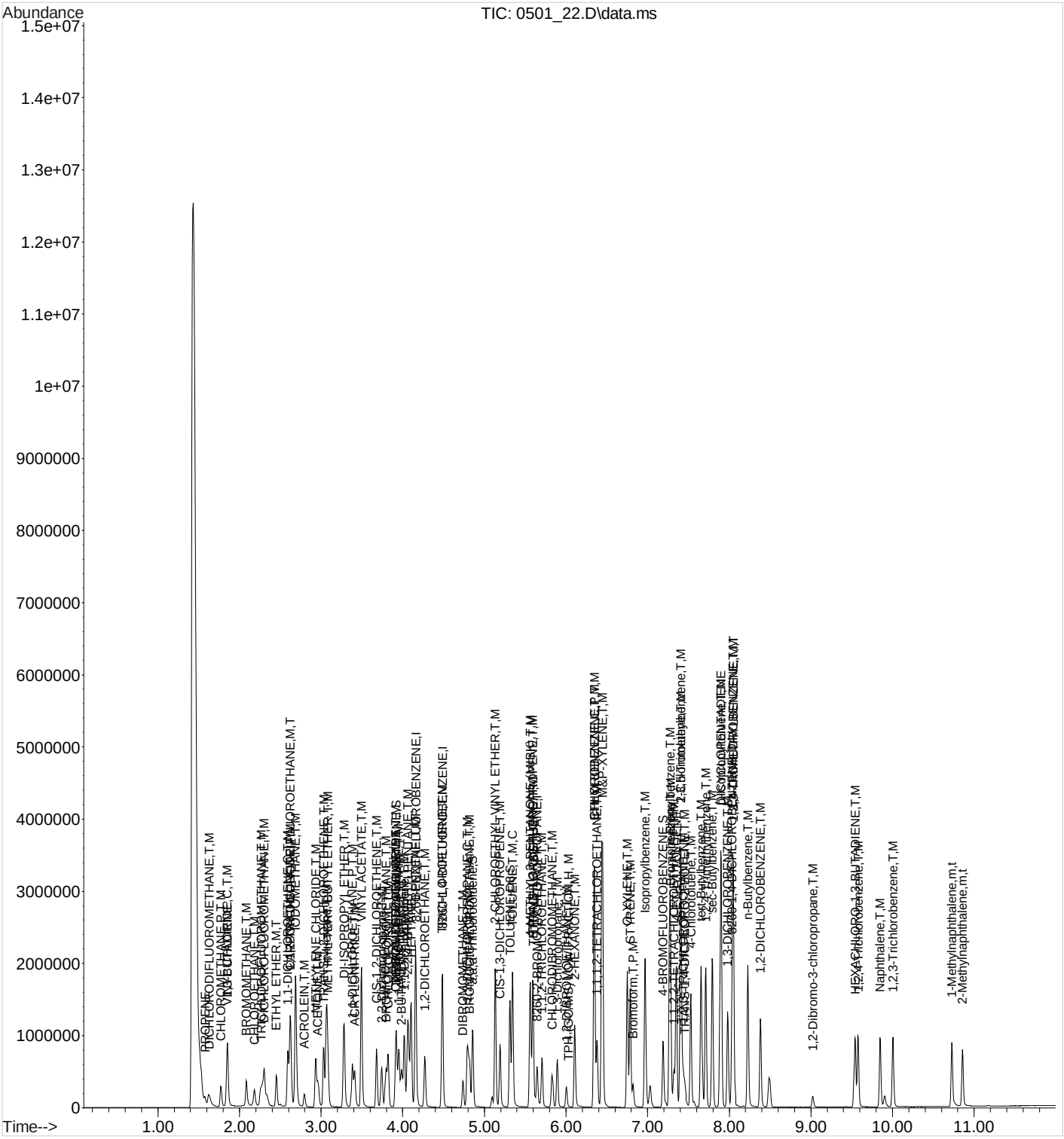

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 23.D
Acq On : 1 May 2015 9:35 pm
Operator : 621
Sample : STD VMS 75 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.159	168	329126	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	563085	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	86823	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	237476	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	192109	48.3301331	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 120.83%			
46) a,a,a-Trifluorotoluene	4.852	146	351031	46.7714729	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 116.93%#			
50) TOLUENE-D8	5.314	98	789491	46.5678984	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.42%#			
68) 4-BROMOFLUOROBENZENE	7.188	95	287690	48.4959588	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 121.24%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	31049070m	75.5274944	ppm	
3) PROPENE	1.573	41	71334	74.4135545	ppb	99
4) DICHLORODIFLUOROMETHANE	1.622	85	464563	76.8931865	ppb	99
5) CHLOROMETHANE	1.768	50	529358	77.6250748	ppb	100
6) VINYL CHLORIDE	1.841	62	616852	77.3441346	ppb	99
7) 1,3-BUTADIENE	1.853	39	466752	76.7491236	ppb	99
8) BROMOMETHANE	2.084	94	331106	70.8821278	ppb	99
9) CHLOROETHANE	2.175	66	112799	75.7395425	ppb	98
10) TRICHLOROFLUOROMETHANE	2.267	101	645327	78.3965139	ppb	99
11) DICHLOROFLUOROMETHANE	2.303	67	825318	76.5066931	ppb	99
12) ETHYL ETHER	2.449	59	385450	78.7940469	ppb	99
13) ACROLEIN	2.790	56	260374	409.4634375	ppb	99
14) 1,1-DICHLOROETHENE	2.589	61	728276	77.0024590	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	425241	78.0212716	ppb	99
16) ACETONE	2.960	43	704900	410.1321467	ppb	100
17) IODOMETHANE	2.686	142	3360453	396.5784053	ppb	100
18) CARBON DISULFIDE	2.619	76	1580878	79.2201745	ppb	98
19) METHYLENE CHLORIDE	2.936	84	448377	77.2916187	ppb	100
20) ACRYLONITRILE	3.404	53	651469	406.8844716	ppb	100
21) n-Hexane	3.063	56	466540	77.7263047	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.027	96	462398	77.0678893	ppb	100
23) METHYL TERT-BUTYL ETHER	3.076	73	1162726	78.1127160	ppb	99
24) 1,1-DICHLOROETHANE	3.380	63	842490	76.6629472	ppb	99
25) VINYL ACETATE	3.489	43	4231355	447.2938453	ppb	100
26) DI-ISOPROPYL ETHER	3.276	45	1601982	78.0929019	ppb	100
27) 2,2-Dichloropropane	3.745	77	507696	73.3936411	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.678	96	490211	78.2073843	ppb	100
29) 2-BUTANONE (MEK)	3.982	43	1067952	396.9727702	ppb	97
30) BROMOCHLOROMETHANE	3.793	130	257230	77.7650878	ppb	100
31) TETRAHYDROFURAN	3.921	42	124426	87.3033885	ppb	89
32) CHLOROFORM	3.818	83	778251	77.8503587	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.952	97	665057	77.1053109	ppb	98
35) CARBON TETRACHLORIDE	3.915	117	562669	73.9759322	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 23.D
Acq On : 1 May 2015 9:35 pm
Operator : 621
Sample : STD VMS 75 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,1-Dichloropropene	4.013	75	684401	77.2752810	ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.061	57	1970639	70.7512031	ppb		99
38)	HEPTANE	4.098	43	1016577	83.7081518	ppb	#	94
39)	BENZENE	4.159	78	1927786	78.0298567	ppb		99
40)	1,2-DICHLOROETHANE	4.268	62	530677	77.2755743	ppb		100
42)	TRICHLOROETHENE	4.481	130	460593	75.2804850	ppb		98
43)	1,2-DICHLOROPROPANE	4.791	62	340006	77.9572185	ppb		99
44)	DIBROMOMETHANE	4.736	93	226698	76.9264849	ppb		99
45)	BROMODICHLOROMETHANE	4.816	83	598948	77.8038179	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.132	63	1412848	401.3595461	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.193	75	760929	77.4427356	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.564	58	838980	404.1284703	ppb		99
51)	TOLUENE	5.345	91	2069786	76.5572844	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.594	110	164992	80.9208110	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.704	97	350764	78.5220726	ppb		98
55)	TETRACHLOROETHENE	5.600	164	358482	79.4231301	ppb		99
56)	1,3-Dichloropropane	5.892	76	642446	78.0217545	ppb		100
57)	2-HEXANONE	6.105	58	785262	413.6915075	ppb		99
58)	CHLORODIBROMOMETHANE	5.831	129	387908	80.3814348	ppb		97
59)	1,2-DIBROMOETHANE	6.008	107	340613	79.2526813	ppb		100
60)	CHLOROBENZENE	6.349	112	1257984	79.2434295	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	392215	78.1398726	ppb	#	99
62)	ETHYLBENZENE	6.349	106	744502	80.3969894	ppb		98
63)	M&P-XYLENE	6.446	106	1804604	160.8500978	ppb		99
64)	O-XYLENE	6.750	106	844829	78.1553094	ppb		99
65)	STYRENE	6.787	104	1369461	81.6578282	ppb		100
66)	Bromoform	6.823	173	237210	82.3124017	ppb		99
67)	Isopropylbenzene	6.969	105	2294733	78.8922479	ppb		100
69)	Bromobenzene	7.273	77	963104	81.0601001	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	455282	80.8666859	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.438	110	126142	79.2864743	ppb		85
72)	TRANS-1,4-DICHLORO-2-B...	7.456	53	123406	87.2853849	ppb	#	97
73)	n-Propylbenzene	7.273	91	2754500	80.1642514	ppb		100
74)	4-ETHYLTOLUENE	7.352	105	2207090	79.6856102	ppb		99
75)	2-Chlorotoluene	7.407	126	486019	84.3955261	ppb		97
76)	4-Chlorotoluene	7.529	91	1568310	81.1759216	ppb		99
77)	1,3,5-Trimethylbenzene	7.407	105	1901984	79.9064111	ppb		99
78)	tert-Butylbenzene	7.657	119	1583194	78.8337874	ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	1843930	79.9081643	ppb		100
80)	sec-Butylbenzene	7.790	105	2536843	78.9162616	ppb		100
81)	1,3-DICHLOROBENZENE	7.979	146	919781	80.3181059	ppb		99
82)	p-Isopropyltoluene	7.900	119	2039747	78.5575294	ppb		100
83)	DICYCLOPENTADIENE	7.894	66	2374109	79.1378273	ppb		99
85)	1,4-DICHLOROBENZENE	8.046	146	935654	79.7277647	ppb	#	51
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	1906395	77.9403262	ppb		100
87)	1,2-DICHLOROBENZENE	8.381	146	852899	78.6143008	ppb		98
88)	n-Butylbenzene	8.228	91	1913236	77.4514066	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.025	157	87176	82.3674192	ppb		95
90)	1,2,4-Trichlorobenzene	9.573	180	550619	80.4136395	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	301695	75.4893182	ppb		100
92)	Naphthalene	9.847	128	1428308	80.2513328	ppb		100
93)	1,2,3-Trichlorobenzene	10.005	180	507688	78.9780924	ppb		99
94)	1-Methylnaphthalene	10.729	142	792168	82.1825039	ppb		99
95)	2-Methylnaphthalene	10.857	142	659873	77.1706429	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 23.D
Acq On : 1 May 2015 9:35 pm
Operator : 621
Sample : STD VMS 75 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:34:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 23.D
Acq On : 1 May 2015 9:35 pm
Operator : 621
Sample : STD VMS 75 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 11 Sample Multiplier: 1
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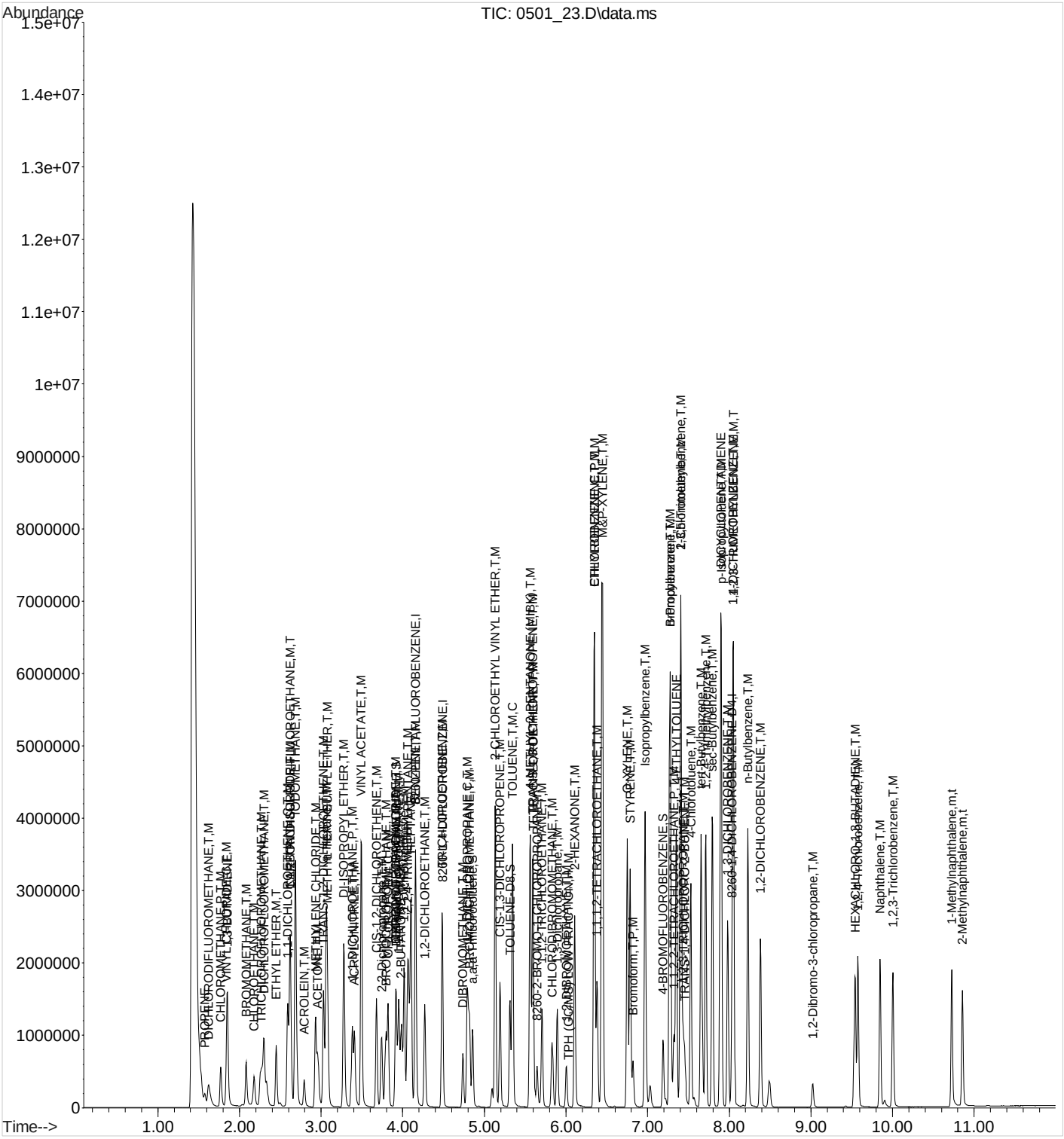
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 24.D
Acq On : 1 May 2015 9:54 pm
Operator : 621
Sample : STD VMS 100 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:13 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.164	168	346496	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	597882	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	90271	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	253188	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.05
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.921	111	207637	49.6179699 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 124.04%#		
46) a,a,a-Trifluorotoluene	4.852	146	366591	46.0019089 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 115.00%#		
50) TOLUENE-D8	5.314	98	830181	46.1180275 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 115.30%#		
68) 4-BROMOFLUOROBENZENE	7.188	95	306170	49.6397919 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 124.10%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	47410300m	109.5451481 ppm	
3) PROPENE	1.573	41	95097	94.2293630 ppb	98
4) DICHLORODIFLUOROMETHANE	1.622	85	637205	100.1812352 ppb	100
5) CHLOROMETHANE	1.768	50	729158	101.5636177 ppb	100
6) VINYL CHLORIDE	1.847	62	849387	101.1616684 ppb	99
7) 1,3-BUTADIENE	1.853	39	636305	99.3840154 ppb	99
8) BROMOMETHANE	2.084	94	431182	87.6787369 ppb	100
9) CHLOROETHANE	2.175	66	155002	98.8595652 ppb	99
10) TRICHLOROFLUOROMETHANE	2.260	101	879937	101.5389016 ppb	99
11) DICHLOROFLUOROMETHANE	2.303	67	1134756	99.9181922 ppb	99
12) ETHYL ETHER	2.449	59	533834	103.6562643 ppb	98
13) ACROLEIN	2.790	56	353094	527.4384872 ppb	100
14) 1,1-DICHLOROETHENE	2.589	61	991062	99.5344421 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.619	101	580400	101.1507863 ppb	99
16) ACETONE	2.960	43	987723	545.8778014 ppb	99
17) IODOMETHANE	2.686	142	4668117	523.2833726 ppb	100
18) CARBON DISULFIDE	2.619	76	2186694	104.0853049 ppb	97
19) METHYLENE CHLORIDE	2.936	84	622119	101.8653560 ppb	99
20) ACRYLONITRILE	3.410	53	904735	536.7384636 ppb	100
21) n-Hexane	3.063	56	634037	100.3362127 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.027	96	638177	101.0328566 ppb	100
23) METHYL TERT-BUTYL ETHER	3.082	73	1621199	103.4533714 ppb	97
24) 1,1-DICHLOROETHANE	3.380	63	1162872	100.5117040 ppb	99
25) VINYL ACETATE	3.495	43	5090231	511.1106342 ppb	100
26) DI-ISOPROPYL ETHER	3.276	45	2214847	102.5561306 ppb	100
27) 2,2-Dichloropropane	3.745	77	693248	95.1934975 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.678	96	676171	102.4672818 ppb	99
29) 2-BUTANONE (MEK)	3.982	43	1499043	529.2818987 ppb	97
30) BROMOCHLOROMETHANE	3.793	130	358611	102.9794628 ppb	98
31) TETRAHYDROFURAN	3.921	42	172233	114.7890054 ppb	93
32) CHLOROFORM	3.818	83	1076617	102.2977613 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.952	97	916211	100.8985422 ppb	98
35) CARBON TETRACHLORIDE	3.915	117	772091	96.4206188 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 24.D
Acq On : 1 May 2015 9:54 pm
Operator : 621
Sample : STD VMS 100 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:13 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.012	75	940394	100.8564722 ppb		100
37)	2,2,4-TRIMETHYLPENTANE	4.067	57	2698146	92.0144783 ppb		99
38)	HEPTANE	4.098	43	1296757	101.4261735 ppb	#	98
39)	BENZENE	4.158	78	2651541	101.9446175 ppb		99
40)	1,2-DICHLOROETHANE	4.268	62	725034	100.2846158 ppb		99
42)	TRICHLOROETHENE	4.481	130	644456	99.2011772 ppb		98
43)	1,2-DICHLOROPROPANE	4.791	62	464746	100.3561274 ppb		98
44)	DIBROMOMETHANE	4.736	93	314938	100.6495284 ppb		99
45)	BROMODICHLOROMETHANE	4.815	83	828797	101.3954436 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.132	63	1873527	501.2525461 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.193	75	1043411	100.0116151 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.564	58	1139902	517.1229763 ppb		98
51)	TOLUENE	5.345	91	2803960	97.6767878 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.594	110	222443	102.7482806 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.704	97	472117	101.6512944 ppb		99
55)	TETRACHLOROETHENE	5.600	164	491776	104.7932983 ppb		98
56)	1,3-Dichloropropane	5.892	76	865350	101.0781804 ppb		100
57)	2-HEXANONE	6.105	58	1044164	529.0750406 ppb		99
58)	CHLORODIBROMOMETHANE	5.831	129	523344	104.3039610 ppb		98
59)	1,2-DIBROMOETHANE	6.008	107	461628	103.3073978 ppb		99
60)	CHLOROBENZENE	6.348	112	1717414	104.0518194 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	540325	103.5356935 ppb	#	99
62)	ETHYLBENZENE	6.348	106	1010079	104.9097359 ppb		99
63)	M&P-XYLENE	6.446	106	2441072	209.2697895 ppb		99
64)	O-XYLENE	6.750	106	1165565	103.7081067 ppb		99
65)	STYRENE	6.786	104	1859331	106.6329443 ppb		100
66)	Bromoform	6.823	173	321923	107.4411927 ppb		99
67)	Isopropylbenzene	6.969	105	3150454	104.1746012 ppb		100
69)	Bromobenzene	7.279	77	1333410	107.9404418 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	609626	104.1451812 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.437	110	173399	104.8268453 ppb		85
72)	TRANS-1,4-DICHLORO-2-B...	7.456	53	174467	118.6875278 ppb	#	98
73)	n-Propylbenzene	7.273	91	3756520	105.1502245 ppb		99
74)	4-ETHYLTOLUENE	7.352	105	3026822	105.1073958 ppb		100
75)	2-Chlorotoluene	7.407	126	670951	112.0581676 ppb		97
76)	4-Chlorotoluene	7.529	91	2152246	107.1454566 ppb		99
77)	1,3,5-Trimethylbenzene	7.407	105	2622437	105.9659569 ppb		99
78)	tert-Butylbenzene	7.656	119	2170313	103.9410652 ppb		100
79)	1,2,4-Trimethylbenzene	7.711	105	2540683	105.8970202 ppb		100
80)	sec-Butylbenzene	7.790	105	3455186	103.3786554 ppb		100
81)	1,3-DICHLOROBENZENE	7.979	146	1285015	107.9254221 ppb		100
82)	p-Isopropyltoluene	7.894	119	2813769	104.2285002 ppb		99
83)	DICYCLOPENTADIENE	7.894	66	3252811	104.2866778 ppb		100
85)	1,4-DICHLOROBENZENE	8.046	146	1310378	104.7291333 ppb	#	46
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	2651443	101.6736070 ppb		100
87)	1,2-DICHLOROBENZENE	8.380	146	1187965	102.7032540 ppb		99
88)	n-Butylbenzene	8.228	91	2636832	100.1197676 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.025	157	118955	105.4187419 ppb		95
90)	1,2,4-Trichlorobenzene	9.573	180	770070	105.4836956 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	414954	97.3854225 ppb		100
92)	Naphthalene	9.847	128	1998574	105.3239711 ppb		99
93)	1,2,3-Trichlorobenzene	10.005	180	705809	102.9848973 ppb		99
94)	1-Methylnaphthalene	10.729	142	1116890	108.6798633 ppb		99
95)	2-Methylnaphthalene	10.856	142	915626	100.4353235 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 24.D
Acq On : 1 May 2015 9:54 pm
Operator : 621
Sample : STD VMS 100 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:13 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

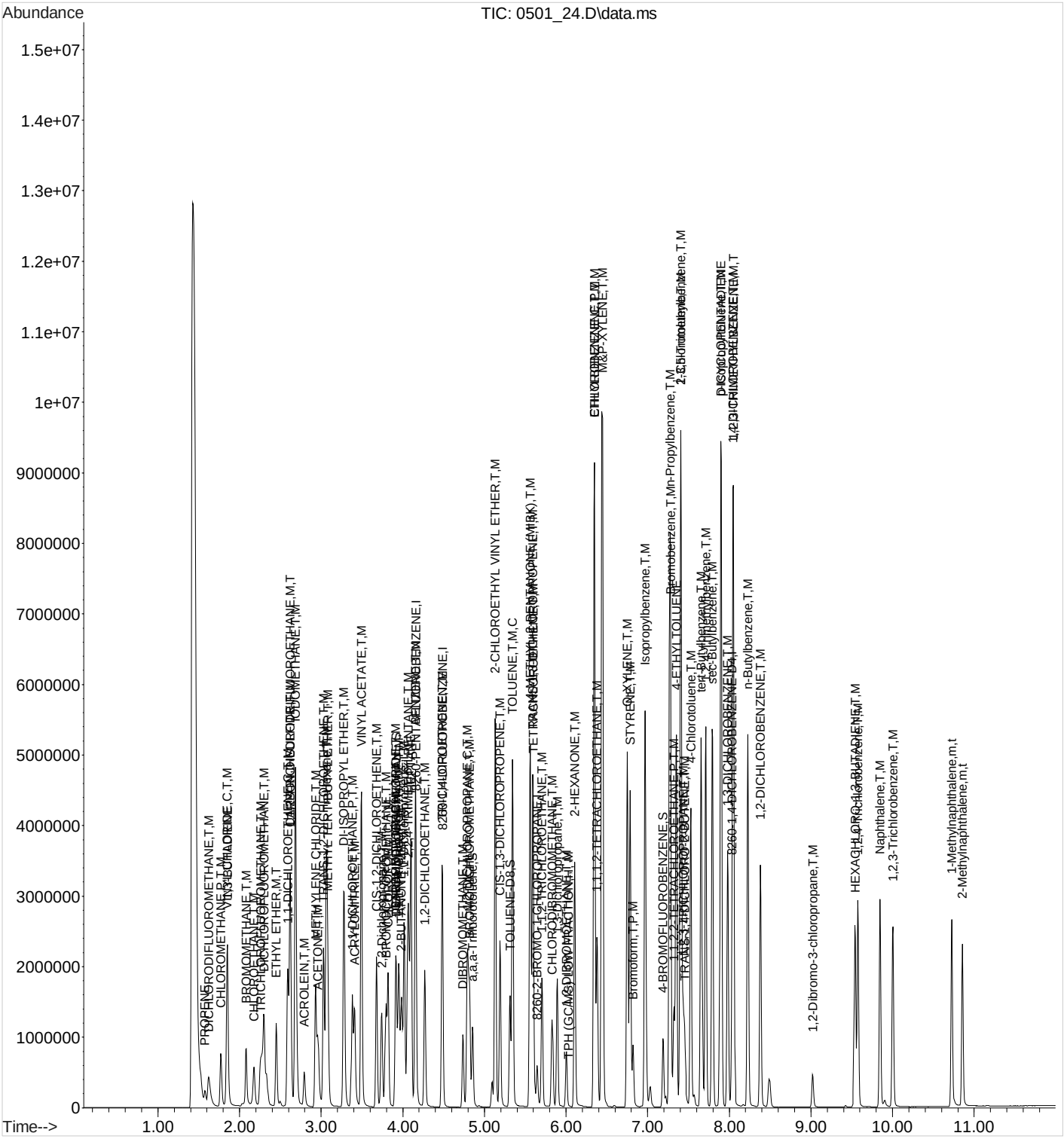
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 24.D
Acq On : 1 May 2015 9:54 pm
Operator : 621
Sample : STD VMS 100 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:13 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 25.D
Acq On : 1 May 2015 10:14 pm
Operator : 621
Sample : STD VMS 200 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:29 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.159	168	371665	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	650926	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	98387	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	276096	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.17
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.65
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.05
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	224590	50.0346909	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 125.09%#			
46) a,a,a-Trifluorotoluene	4.852	146	396200	45.6659383	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 114.16%#			
50) TOLUENE-D8	5.314	98	885649	45.1901134	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.98%#			
68) 4-BROMOFLUOROBENZENE	7.188	95	333375	49.5919153	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 123.98%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.030	TIC	104550481m	225.2127864	ppm	
3) PROPENE	1.579	41	188016	173.6843980	ppb	98
4) DICHLORODIFLUOROMETHANE	1.616	85	1263990	185.2667169	ppb	99
5) CHLOROMETHANE	1.768	50	1462688	189.9392749	ppb	99
6) VINYL CHLORIDE	1.847	62	1677431	186.2522803	ppb	99
7) 1,3-BUTADIENE	1.847	39	1269890	184.9114768	ppb	99
8) BROMOMETHANE	2.078	94	772290	146.4065927	ppb	100
9) CHLOROETHANE	2.169	66	302865	180.0847935	ppb	99
10) TRICHLOROFLUOROMETHANE	2.260	101	1744834	187.7074704	ppb	100
11) DICHLOROFLUOROMETHANE	2.297	67	2244004	184.2096032	ppb	98
12) ETHYL ETHER	2.449	59	1055750	191.1159674	ppb	99
13) ACROLEIN	2.790	56	684200	952.8205372	ppb	100
14) 1,1-DICHLOROETHENE	2.583	61	1962341	183.7357219	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.613	101	1160057	188.4810744	ppb	98
16) ACETONE	2.960	43	1893371	975.5343094	ppb	98
17) IODOMETHANE	2.680	142	9299694	971.8750244	ppb	99
18) CARBON DISULFIDE	2.613	76	4325197	191.9348593	ppb	97
19) METHYLENE CHLORIDE	2.930	84	1239895	189.2711892	ppb	99
20) ACRYLONITRILE	3.404	53	1748390	966.9993928	ppb	100
21) n-Hexane	3.057	56	1282954	189.2782654	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.027	96	1286217	189.8376242	ppb	100
23) METHYL TERT-BUTYL ETHER	3.076	73	3194229	190.0294580	ppb	99
24) 1,1-DICHLOROETHANE	3.380	63	2321699	187.0842370	ppb	99
25) VINYL ACETATE	3.489	43	9650311	903.3692332	ppb	99
26) DI-ISOPROPYL ETHER	3.276	45	4420858	190.8407090	ppb	99
27) 2,2-Dichloropropane	3.739	77	1285149	164.5200002	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.678	96	1357488	191.7834975	ppb	99
29) 2-BUTANONE (MEK)	3.982	43	2913293	958.9670307	ppb	97
30) BROMOCHLOROMETHANE	3.793	130	714765	191.3536954	ppb	99
31) TETRAHYDROFURAN	3.921	42	339074	210.6808086	ppb	90
32) CHLOROFORM	3.818	83	2146526	190.1461822	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.952	97	1817401	186.5892903	ppb	98
35) CARBON TETRACHLORIDE	3.915	117	1549929	180.4512060	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 25.D
Acq On : 1 May 2015 10:14 pm
Operator : 621
Sample : STD VMS 200 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:29 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.012	75	1878411	187.8153599 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.067	57	5393328	171.4723561 ppb		100
38)	HEPTANE	4.098	43	3585761	261.4684785 ppb	#	78
39)	BENZENE	4.159	78	5349350	191.7403555 ppb		99
40)	1,2-DICHLOROETHANE	4.268	62	1433174	184.8082792 ppb		100
42)	TRICHLOROETHENE	4.481	130	1294350	183.0033932 ppb		98
43)	1,2-DICHLOROPROPANE	4.791	62	932511	184.9549917 ppb		99
44)	DIBROMOMETHANE	4.736	93	625421	183.5874538 ppb		100
45)	BROMODICHLOROMETHANE	4.816	83	1656291	186.1190259 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.132	63	3692476	907.3987492 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.193	75	2092346	184.2096564 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.564	58	2233324	930.5975641 ppb		97
51)	TOLUENE	5.345	91	5628646	180.0973615 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.594	110	459716	195.0425196 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.704	97	932588	184.2313916 ppb		98
55)	TETRACHLOROETHENE	5.600	164	1005991	196.6848052 ppb		98
56)	1,3-Dichloropropane	5.892	76	1711941	183.4699512 ppb		99
57)	2-HEXANONE	6.105	58	2046045	951.2053286 ppb		99
58)	CHLORODIBROMOMETHANE	5.831	129	1052911	192.5376869 ppb		98
59)	1,2-DIBROMOETHANE	6.008	107	911292	187.1144693 ppb		99
60)	CHLOROBENZENE	6.349	112	3499415	194.5273471 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.379	133	1075145	189.0221111 ppb	#	98
62)	ETHYLBENZENE	6.349	106	2085058	198.6960012 ppb		97
63)	M&P-XYLENE	6.446	106	4974876	391.3080152 ppb		96
64)	O-XYLENE	6.750	106	2358798	192.5650622 ppb		99
65)	STYRENE	6.787	104	3803484	200.1367392 ppb		100
66)	Bromoform	6.823	173	635939	194.7353563 ppb		99
67)	Isopropylbenzene	6.969	105	6265410	190.0853886 ppb		100
69)	Bromobenzene	7.273	77	2750885	204.3165064 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.322	83	1194953	187.2996898 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.438	110	334268	185.4091940 ppb		87
72)	TRANS-1,4-DICHLORO-2-B...	7.456	53	342726	213.9190089 ppb	#	97
73)	n-Propylbenzene	7.273	91	7585725	194.8193673 ppb		99
74)	4-ETHYLTOLUENE	7.352	105	6093363	194.1395329 ppb		99
75)	2-Chlorotoluene	7.407	126	1391990	213.3041782 ppb		99
76)	4-Chlorotoluene	7.529	91	4378091	199.9756744 ppb		99
77)	1,3,5-Trimethylbenzene	7.407	105	5289819	196.1158289 ppb		99
78)	tert-Butylbenzene	7.657	119	4331507	190.3331113 ppb		100
79)	1,2,4-Trimethylbenzene	7.711	105	5136871	196.4456666 ppb		100
80)	sec-Butylbenzene	7.796	105	6831942	187.5487412 ppb		100
81)	1,3-DICHLOROBENZENE	7.979	146	2611762	201.2610309 ppb		99
82)	p-Isopropyltoluene	7.900	119	5648592	191.9768183 ppb		99
83)	DICYCLOPENTADIENE	7.900	66	6502742	191.2833026 ppb		100
85)	1,4-DICHLOROBENZENE	8.046	146	2715949	199.0561181 ppb	#	38
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	5371053	188.8723470 ppb		100
87)	1,2-DICHLOROBENZENE	8.380	146	2402440	190.4654081 ppb		99
88)	n-Butylbenzene	8.228	91	5264112	183.2928383 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.025	157	230356	187.2050930 ppb		95
90)	1,2,4-Trichlorobenzene	9.573	180	1537657	193.1512865 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.542	225	805393	173.3344360 ppb		100
92)	Naphthalene	9.847	128	3844725	185.8040933 ppb		100
93)	1,2,3-Trichlorobenzene	10.005	180	1375421	184.0369397 ppb		99
94)	1-Methylnaphthalene	10.729	142	2075112	185.1668448 ppb		99
95)	2-Methylnaphthalene	10.857	142	1671080	168.0926064 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 25.D
Acq On : 1 May 2015 10:14 pm
Operator : 621
Sample : STD VMS 200 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:29 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration

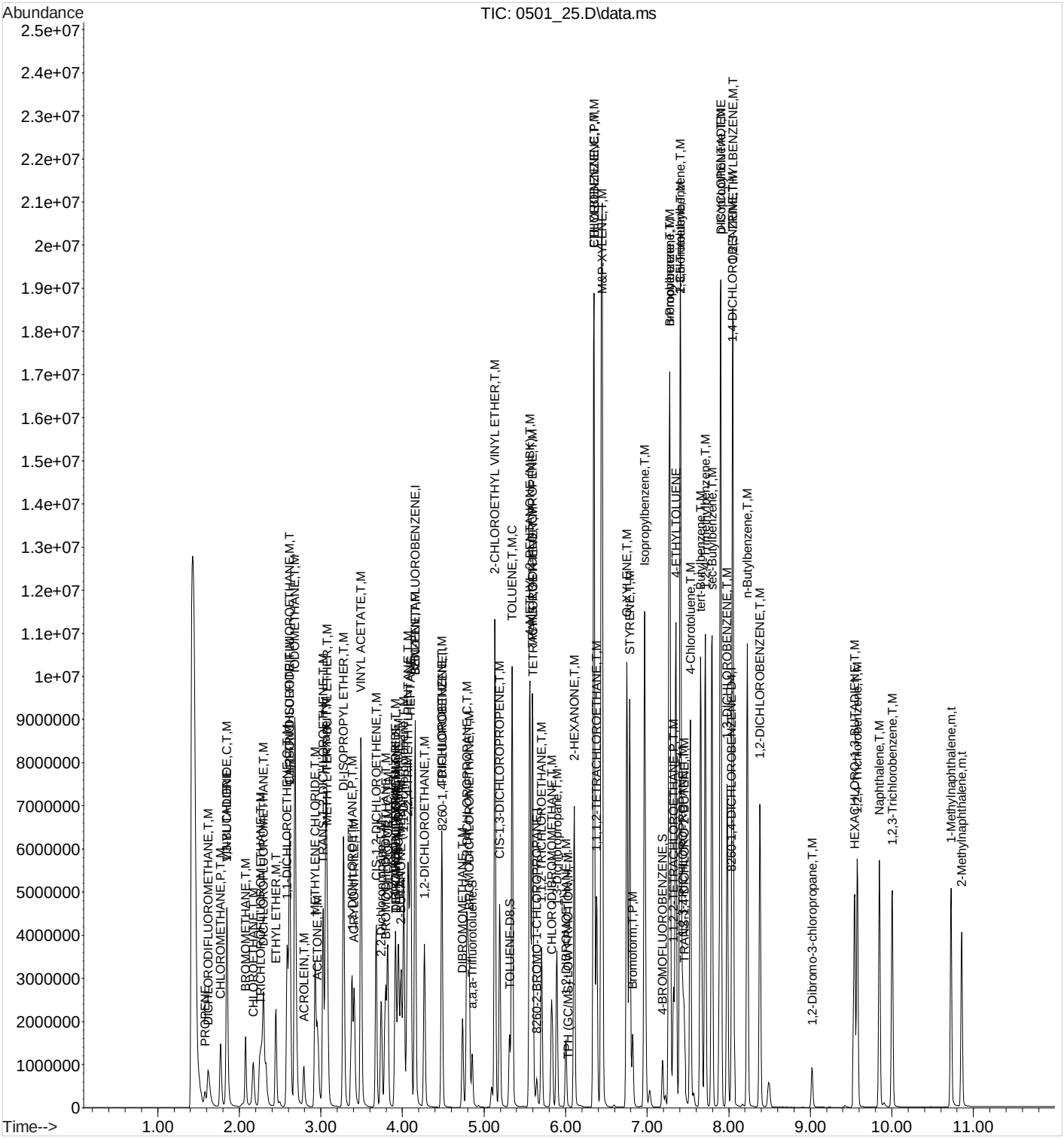
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 25.D
Acq On : 1 May 2015 10:14 pm
Operator : 621
Sample : STD VMS 200 ppb 15D23602
Misc : water IS/SURR15C12445
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:35:29 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:30:45 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 30.D
Acq On : 1 May 2015 11:53 pm
Operator : 621
Sample : STD VMS 1a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:21 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

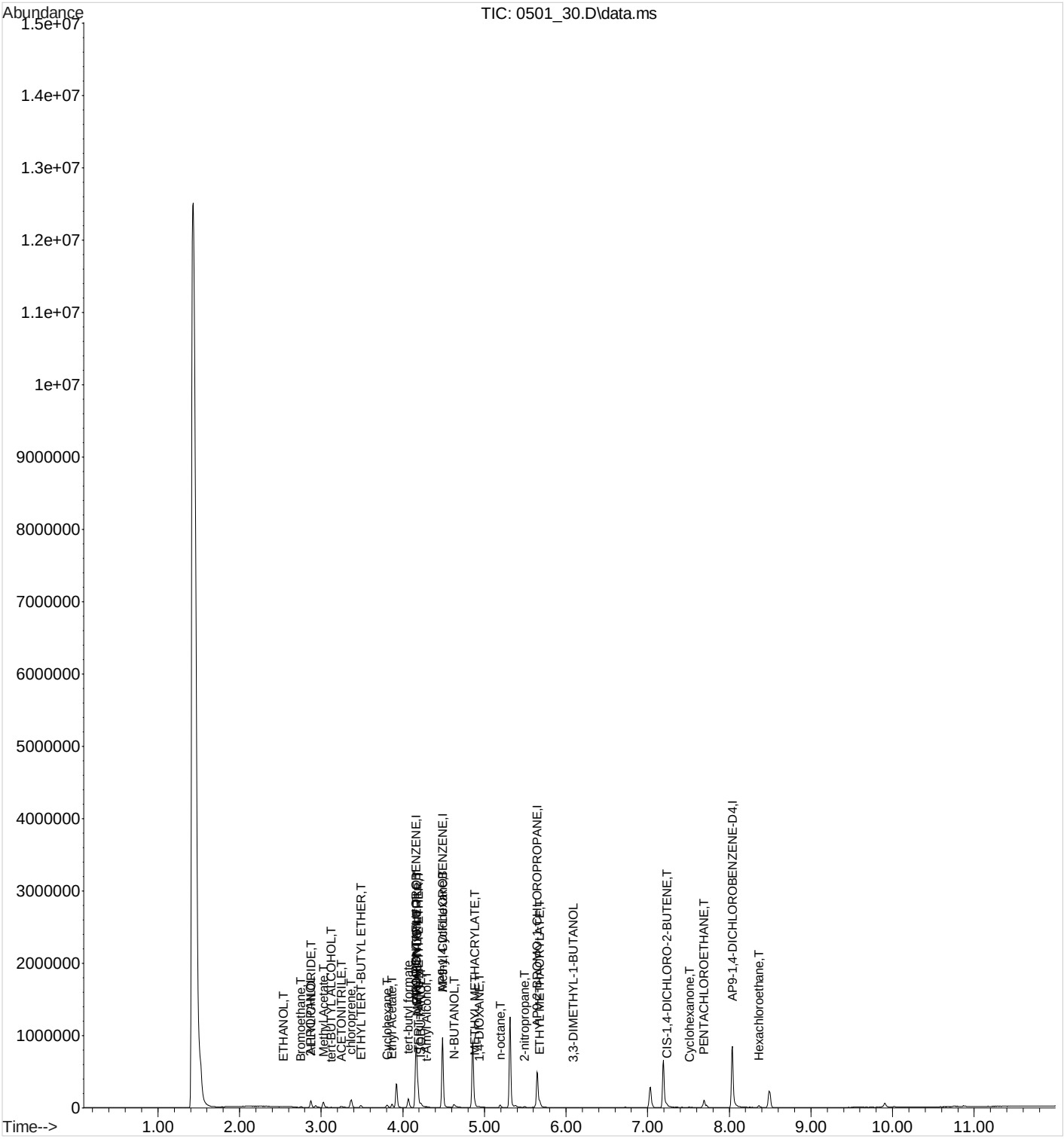
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb		-4.16
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb		-4.49
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000 ppb		-5.64
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000 ppb		-8.03
96)	AP9-PENTAFLUOROBENZENE	4.164	168	339406	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	567358	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.643	79	85287	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	225455	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
97)	ETHANOL	2.540	45	4921	86.1998545 ppb	#	88
98)	Bromoethane	2.753	108	5352	1.0402572 ppb		100
99)	2-PROPANOL	2.869	45	2848	9.5955861 ppb		97
100)	Methyl Acetate	3.027	43	79734	19.8106184 ppb	#	99
101)	ACETONITRILE	3.246	41	27590	50.0715237 ppb		92
102)	ALLYL CHLORIDE	2.875	76	17150	4.9214214 ppb		99
103)	tert-BUTYL ALCOHOL	3.124	59	4027	5.5498688 ppb	#	79
104)	chloroprene	3.367	53	51286	4.9175437 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.489	59	19465	1.0039699 ppb		94
106)	PROPIONITRILE	4.170	54	34797	49.0610959 ppb	#	80
107)	Ethyl Acetate	3.866	43	45852	9.8120319 ppb		98
108)	METHACRYLONITRILE	4.177	67	109299	49.6923651 ppb		97
109)	Cyclohexane	3.805	84	11698	1.0598121 ppb		98
110)	tert-butyl formate	4.067	59	50279	9.6332889 ppb		92
111)	ISOBUTANOL	4.219	43	34624	106.0005438 ppb	#	97
112)	t-Amyl Alcohol	4.292	59	3063	6.5605901 ppb	#	65
113)	TERT-AMYL METHYL ETHER	4.195	73	18601	1.0472044 ppb	#	1
115)	N-BUTANOL	4.627	56	25292	153.6795076 ppb		88
116)	Methyl Cyclohexane	4.487	83	19900	1.4745099 ppb		85
117)	2-nitropropane	5.491	43	7474	4.8030332 ppb	#	87
118)	METHYL METHACRYLATE	4.882	41	22472	4.8088840 ppb	#	30
119)	1,4-DIOXANE	4.937	88	5177	108.4358505 ppb		94
120)	n-octane	5.199	85	6850	1.0200472 ppb		95
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	1963	4.4160451 ppb	#	76
123)	ETHYL METHACRYLATE	5.673	69	31587	4.6003600 ppb	#	11
124)	CIS-1,4-DICHLORO-2-BUTENE	7.237	53	8333	4.8536069 ppb	#	21
125)	Cyclohexanone	7.510	55	1770	10.7073606 ppb	#	63
126)	PENTACHLOROETHANE	7.687	117	17580	4.7086635 ppb		96
127)	Hexachloroethane	8.362	117	4247	0.9306028 ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 30.D
Acq On : 1 May 2015 11:53 pm
Operator : 621
Sample : STD VMS 1a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:21 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 31.D
Acq On : 2 May 2015 12:13 am
Operator : 621
Sample : STD VMS 2.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

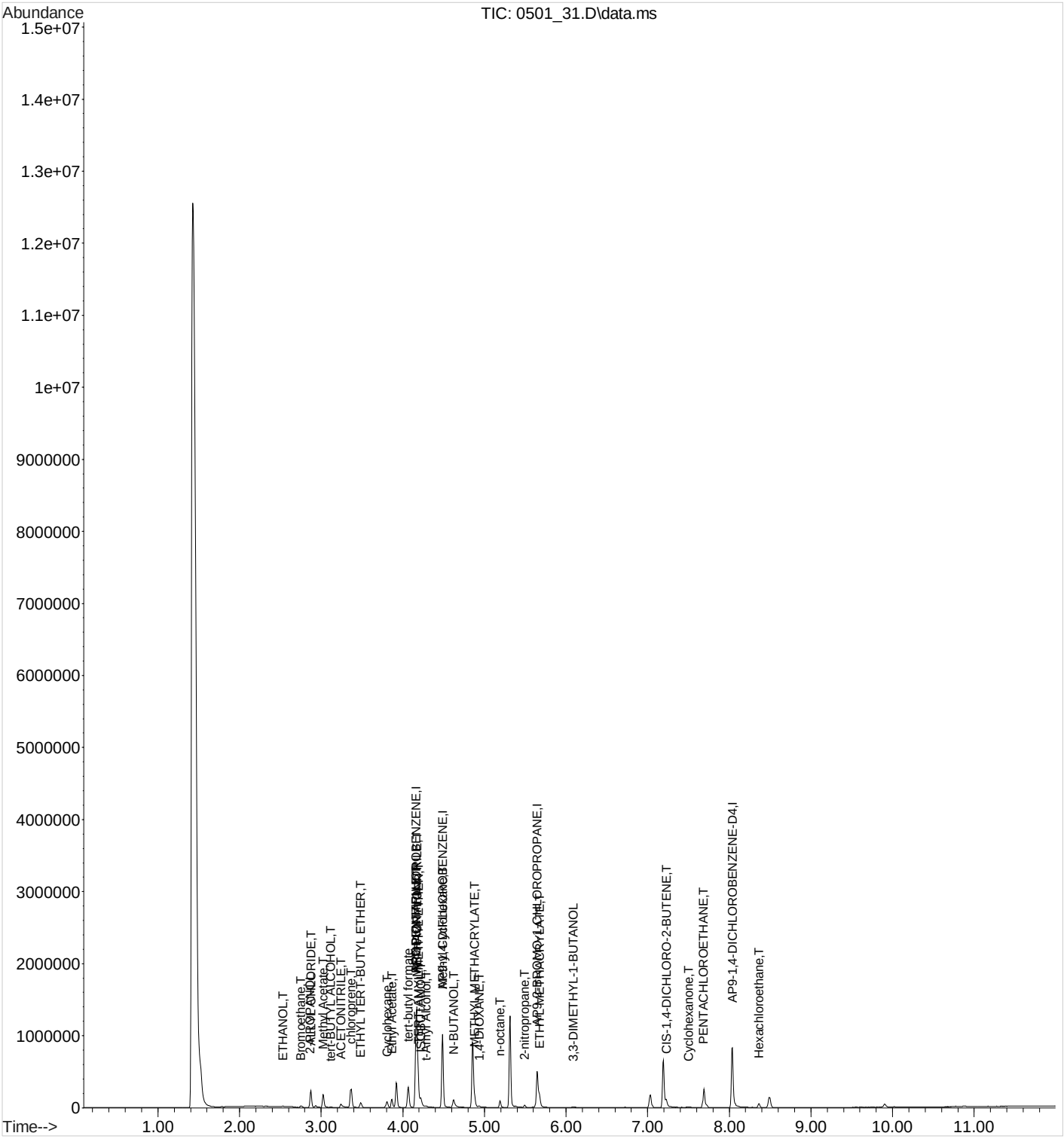
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.03
96) AP9-PENTAFLUOROBENZENE	4.164	168	335774	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	563525	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	86979	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	227193	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
97) ETHANOL	2.534	45	14251	252.3312033	ppb	#	97
98) Bromoethane	2.753	108	12111	2.3794527	ppb		95
99) 2-PROPANOL	2.862	45	4678	15.9317759	ppb		93
100) Methyl Acetate	3.021	43	185348	46.5494802	ppb	#	99
101) ACETONITRILE	3.240	41	59164	108.5348191	ppb		95
102) ALLYL CHLORIDE	2.875	76	42071	12.2034244	ppb		98
103) tert-BUTYL ALCOHOL	3.118	59	9062	12.6240178	ppb	#	89
104) chloroprene	3.367	53	125110	12.1258969	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.483	59	47921	2.4984152	ppb		99
106) PROPIONITRILE	4.164	54	78715	112.1825721	ppb	#	93
107) Ethyl Acetate	3.866	43	109190	23.6186998	ppb		99
108) METHACRYLONITRILE	4.177	67	253484	116.4921021	ppb		99
109) Cyclohexane	3.805	84	26971	2.4699419	ppb		98
110) tert-butyl formate	4.067	59	122538	23.7318279	ppb		98
111) ISOBUTANOL	4.219	43	78082	241.6318807	ppb	#	89
112) t-Amyl Alcohol	4.286	59	6582	14.2503731	ppb		90
113) TERT-AMYL METHYL ETHER	4.195	73	42985	2.4461582	ppb	#	1
115) N-BUTANOL	4.621	56	68721	420.4034323	ppb		97
116) Methyl Cyclohexane	4.487	83	38035	2.8374096	ppb		92
117) 2-nitropropane	5.491	43	17577	11.3723769	ppb		93
118) METHYL METHACRYLATE	4.876	41	55920	12.0479659	ppb	#	69
119) 1,4-DIOXANE	4.937	88	11258	237.4105230	ppb	#	91
120) n-octane	5.192	85	16156	2.4221862	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.087	57	7938	17.9791143	ppb		92
123) ETHYL METHACRYLATE	5.673	69	79823	11.3993453	ppb	#	11
124) CIS-1,4-DICHLORO-2-BUTENE	7.230	53	20805	11.8822687	ppb	#	20
125) Cyclohexanone	7.498	55	5384	31.9361561	ppb	#	91
126) PENTACHLOROETHANE	7.687	117	44228	11.6156766	ppb		98
127) Hexachloroethane	8.362	117	11731	2.5204934	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 31.D
Acq On : 2 May 2015 12:13 am
Operator : 621
Sample : STD VMS 2.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:41 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 32.D
Acq On : 2 May 2015 12:33 am
Operator : 621
Sample : STD VMS 5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

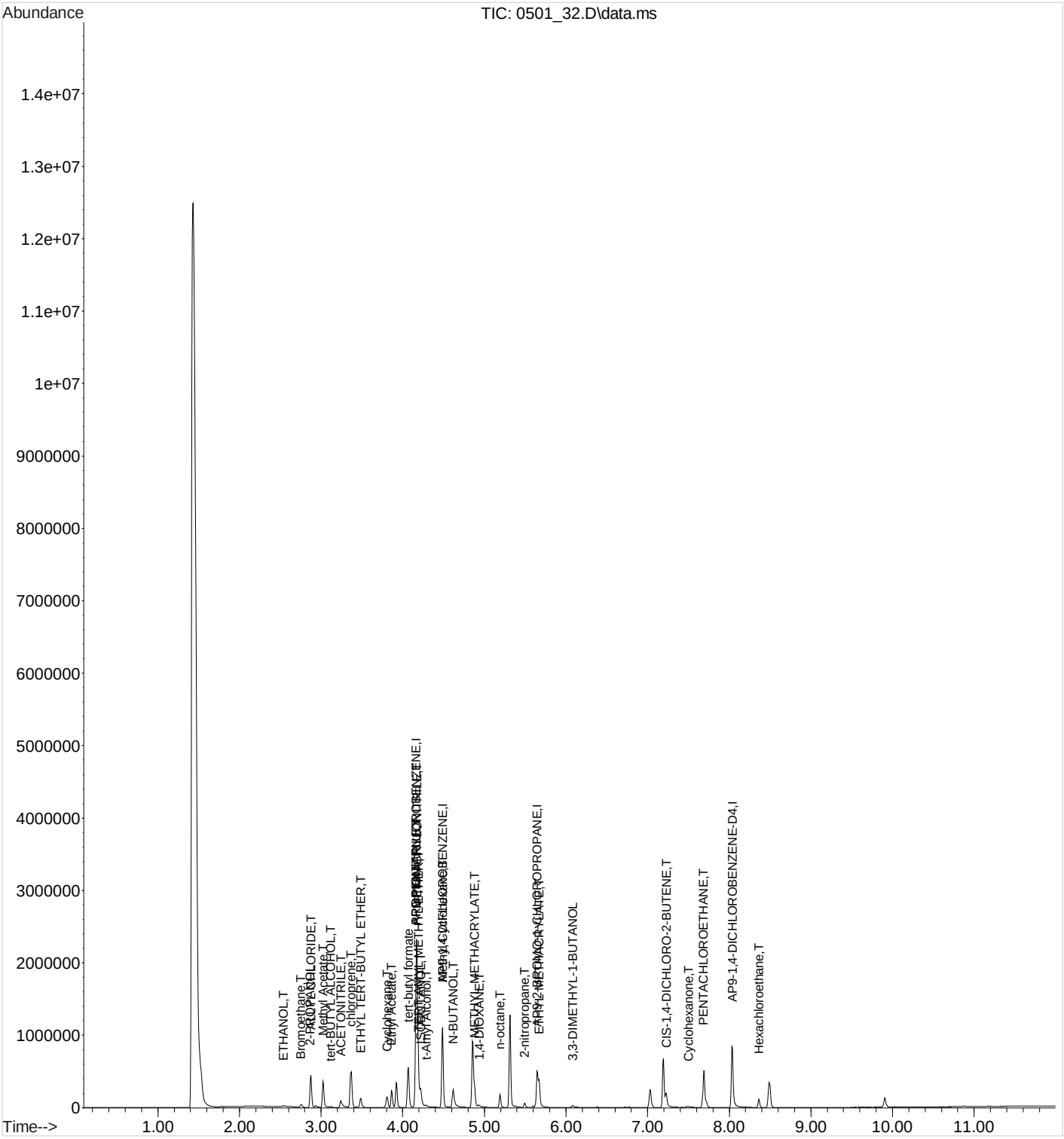
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb		-4.16
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb		-4.49
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000 ppb		-5.64
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000 ppb		-8.03
96)	AP9-PENTAFLUOROBENZENE	4.165	168	330922	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	561331	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.643	79	87201	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	233099	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
97)	ETHANOL	2.540	45	26791	481.3222820 ppb	#	95
98)	Bromoethane	2.753	108	24615	4.9070258 ppb		97
99)	2-PROPANOL	2.863	45	7139	24.6696381 ppb		97
100)	Methyl Acetate	3.021	43	361587	92.1427487 ppb	#	99
101)	ACETONITRILE	3.240	41	117322	218.3797880 ppb		92
102)	ALLYL CHLORIDE	2.875	76	80826	23.7887374 ppb		100
103)	tert-BUTYL ALCOHOL	3.118	59	15504	21.9148612 ppb	#	94
104)	chloroprene	3.368	53	240246	23.6265025 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.483	59	92690	4.9033517 ppb		98
106)	PROPIONITRILE	4.165	54	156001	225.5883665 ppb		97
107)	Ethyl Acetate	3.860	43	208696	45.8045551 ppb		100
108)	METHACRYLONITRILE	4.177	67	495406	231.0088491 ppb		99
109)	Cyclohexane	3.806	84	52350	4.8643835 ppb		98
110)	tert-butyl formate	4.067	59	239313	47.0270913 ppb		99
111)	ISOBUTANOL	4.219	43	147744	463.9109056 ppb	#	97
112)	t-Amyl Alcohol	4.286	59	12940	28.4265436 ppb		84
113)	TERT-AMYL METHYL ETHER	4.195	73	82924	4.7881669 ppb	#	1
115)	N-BUTANOL	4.615	56	144513	887.5194100 ppb		99
116)	Methyl Cyclohexane	4.487	83	68317	5.1163656 ppb		95
117)	2-nitropropane	5.491	43	35047	22.7641533 ppb		99
118)	METHYL METHACRYLATE	4.876	41	108586	23.4862978 ppb		90
119)	1,4-DIOXANE	4.937	88	21727	459.9733236 ppb		94
120)	n-octane	5.193	85	31703	4.7716459 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.081	57	19125	43.4863347 ppb		95
123)	ETHYL METHACRYLATE	5.667	69	158994	22.6477751 ppb	#	11
124)	CIS-1,4-DICHLORO-2-BUTENE	7.231	53	40382	23.0044798 ppb		97
125)	Cyclohexanone	7.498	55	9582	56.6926427 ppb		92
126)	PENTACHLOROETHANE	7.687	117	89452	23.4331251 ppb		99
127)	Hexachloroethane	8.362	117	21671	4.6443231 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 32.D
Acq On : 2 May 2015 12:33 am
Operator : 621
Sample : STD VMS 5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:45:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 33.D
Acq On : 2 May 2015 12:53 am
Operator : 621
Sample : STD VMS 7.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:17 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

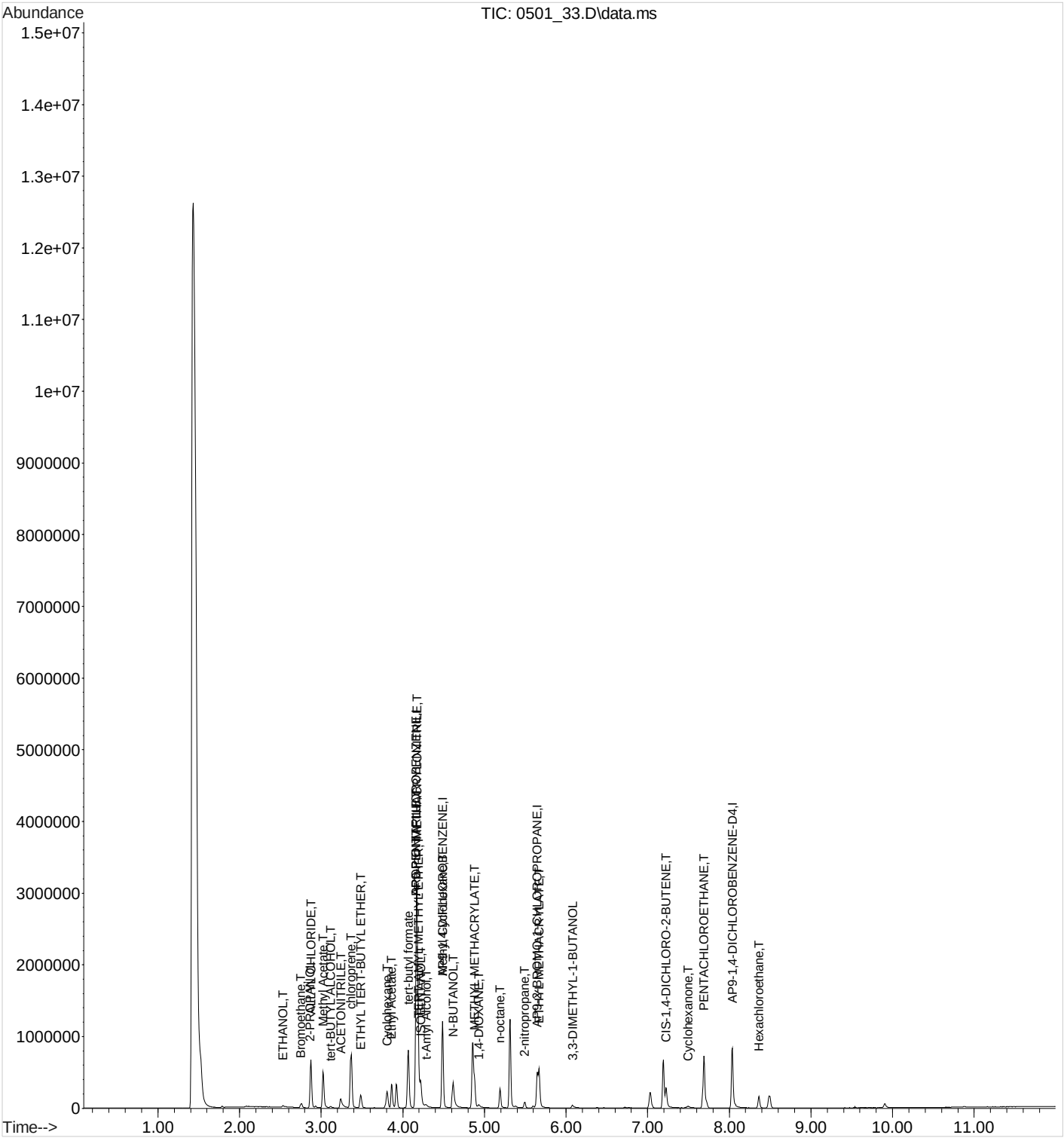
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.03
96) AP9-PENTAFLUOROBENZENE	4.164	168	328980	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	562136	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	83914	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	219325	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
97) ETHANOL	2.534	45	38551	696.6888095	ppb #	85
98) Bromoethane	2.753	108	36165	7.2520888	ppb	99
99) 2-PROPANOL	2.862	45	10428	36.2478759	ppb #	90
100) Methyl Acetate	3.021	43	525979	134.8257686	ppb #	100
101) ACETONITRILE	3.240	41	176203	329.9152757	ppb	97
102) ALLYL CHLORIDE	2.875	76	120785	35.7593366	ppb	100
103) tert-BUTYL ALCOHOL	3.118	59	21300	30.2852186	ppb #	96
104) chloroprene	3.367	53	359992	35.6116639	ppb	99
105) ETHYL TERT-BUTYL ETHER	3.483	59	130895	6.9652926	ppb	99
106) PROPIONITRILE	4.164	54	227731	331.2589452	ppb	98
107) Ethyl Acetate	3.860	43	301197	66.4968893	ppb	99
108) METHACRYLONITRILE	4.177	67	714332	335.0607870	ppb	99
109) Cyclohexane	3.805	84	77892	7.2804818	ppb	97
110) tert-butyl formate	4.067	59	347202	68.6309783	ppb	99
111) ISOBUTANOL	4.219	43	217527	687.0590170	ppb #	97
112) t-Amyl Alcohol	4.286	59	16789	37.0997304	ppb	98
113) TERT-AMYL METHYL ETHER	4.195	73	117475	6.8232397	ppb #	1
115) N-BUTANOL	4.615	56	198669	1218.3685416	ppb	97
116) Methyl Cyclohexane	4.487	83	98847	7.3922033	ppb	95
117) 2-nitropropane	5.491	43	50998	33.0774046	ppb	97
118) METHYL METHACRYLATE	4.876	41	155447	33.5738156	ppb	96
119) 1,4-DIOXANE	4.931	88	31287	661.4155960	ppb	93
120) n-octane	5.192	85	46513	6.9906865	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.081	57	25795	58.5685566	ppb	93
123) ETHYL METHACRYLATE	5.667	69	229505	33.9722258	ppb	83
124) CIS-1,4-DICHLORO-2-BUTENE	7.224	53	56829	33.6419877	ppb	95
125) Cyclohexanone	7.492	55	14033	86.2795960	ppb	97
126) PENTACHLOROETHANE	7.687	117	128545	34.9930974	ppb	100
127) Hexachloroethane	8.362	117	32063	7.1405995	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 33.D
Acq On : 2 May 2015 12:53 am
Operator : 621
Sample : STD VMS 7.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:17 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 34.D
Acq On : 2 May 2015 1:13 am
Operator : 621
Sample : MSTD VMS 10a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:35 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

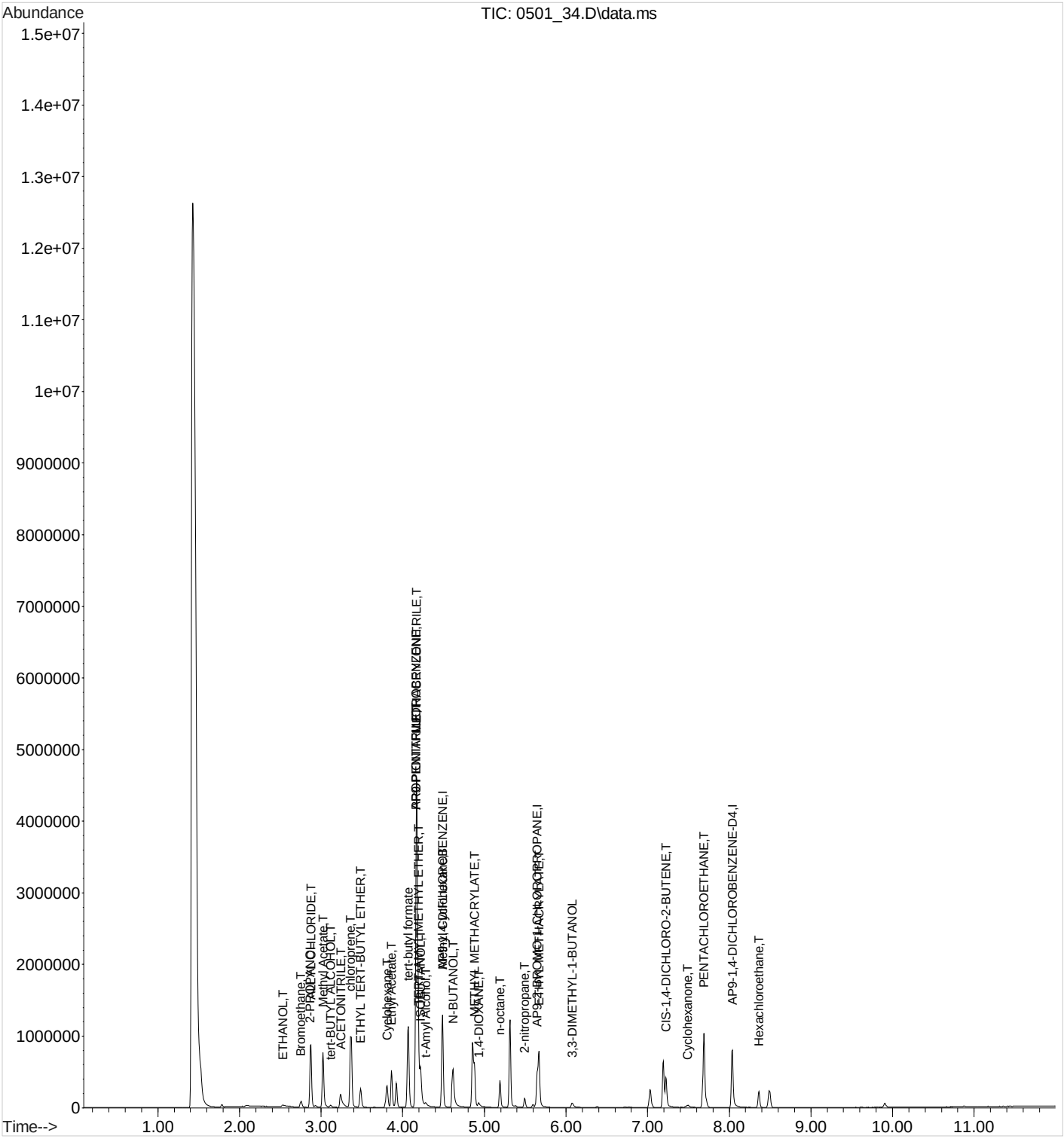
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.03
96) AP9-PENTAFLUOROBENZENE	4.165	168	323370	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	545985	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	83390	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	217689	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
97) ETHANOL	2.534	45	54391	1000.0000000	ppb #	100
98) Bromoethane	2.753	108	49018	10.0000000	ppb	100
99) 2-PROPANOL	2.863	45	14139	50.0000000	ppb	100
100) Methyl Acetate	3.021	43	766930	200.0000000	ppb #	100
101) ACETONITRILE	3.240	41	262489	500.0000000	ppb	100
102) ALLYL CHLORIDE	2.875	76	166006	50.0000000	ppb	100
103) tert-BUTYL ALCOHOL	3.118	59	34566	50.0000000	ppb	100
104) chloroprene	3.362	53	496822	50.0000000	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.483	59	184720	10.0000000	ppb	100
106) PROPIONITRILE	4.165	54	337874	500.0000000	ppb	100
107) Ethyl Acetate	3.861	43	445225	100.0000000	ppb	100
108) METHACRYLONITRILE	4.171	67	1047796	500.0000000	ppb	100
109) Cyclohexane	3.806	84	105163	10.0000000	ppb	100
110) tert-butyl formate	4.067	59	497270	100.0000000	ppb	100
111) ISOBUTANOL	4.213	43	311207	1000.0000000	ppb #	100
112) t-Amyl Alcohol	4.280	59	22241	50.0000000	ppb	100
113) TERT-AMYL METHYL ETHER	4.195	73	169233	10.0000000	ppb #	100
115) N-BUTANOL	4.615	56	316753	2000.0000000	ppb	100
116) Methyl Cyclohexane	4.487	83	129876	10.0000000	ppb	100
117) 2-nitropropane	5.491	43	74874	50.0000000	ppb	100
118) METHYL METHACRYLATE	4.877	41	224849	50.0000000	ppb	100
119) 1,4-DIOXANE	4.931	88	45944	1000.0000000	ppb	100
120) n-octane	5.193	85	64624	10.0000000	ppb	100
121) 3,3-DIMETHYL-1-BUTANOL	6.075	57	42777	100.0000000	ppb	100
123) ETHYL METHACRYLATE	5.667	69	335674	50.0000000	ppb	100
124) CIS-1,4-DICHLORO-2-BUTENE	7.225	53	83934	50.0000000	ppb	100
125) Cyclohexanone	7.486	55	16163	100.0000000	ppb	100
126) PENTACHLOROETHANE	7.687	117	182525	50.0000000	ppb	100
127) Hexachloroethane	8.362	117	44622	10.0000000	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 34.D
Acq On : 2 May 2015 1:13 am
Operator : 621
Sample : MSTD VMS 10a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:35 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 35.D
Acq On : 2 May 2015 1:33 am
Operator : 621
Sample : STD VMS 12.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

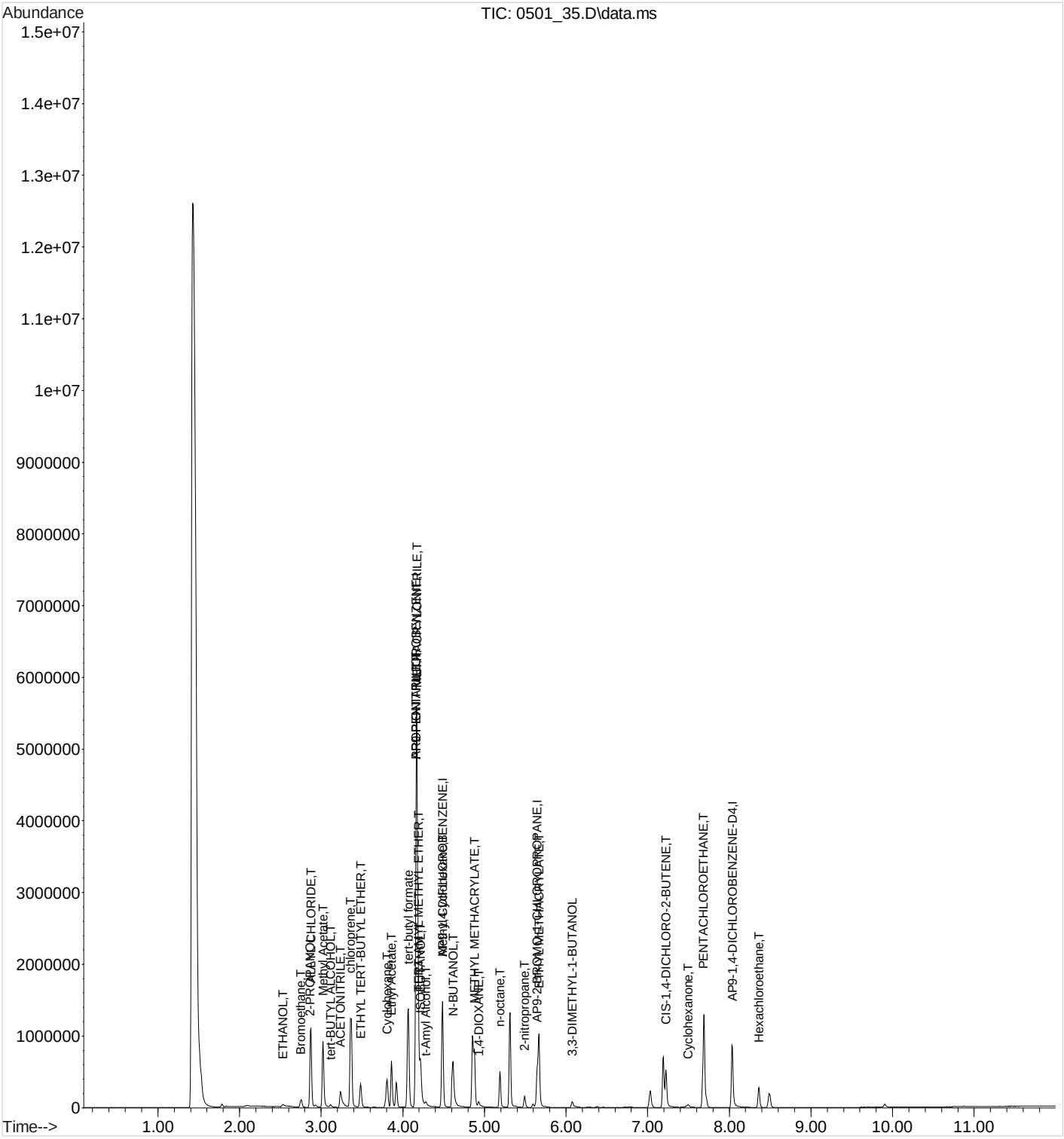
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.03
96) AP9-PENTAFLUOROBENZENE	4.164	168	351713	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	595121	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	91736	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	223949	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
97) ETHANOL	2.534	45	62575	1057.7550815	ppb #	84
98) Bromoethane	2.753	108	62310	11.6872806	ppb	99
99) 2-PROPANOL	2.863	45	17745	57.6950587	ppb #	88
100) Methyl Acetate	3.021	43	922688	221.2281804	ppb #	100
101) ACETONITRILE	3.234	41	308722	540.6768572	ppb	100
102) ALLYL CHLORIDE	2.875	76	205711	56.9659101	ppb	98
103) tert-BUTYL ALCOHOL	3.118	59	37665	50.0922058	ppb	95
104) chloroprene	3.361	53	621680	57.5237761	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.483	59	235301	11.7117329	ppb	99
106) PROPIONITRILE	4.164	54	405874	552.2271672	ppb	99
107) Ethyl Acetate	3.860	43	556609	114.9428569	ppb	100
108) METHACRYLONITRILE	4.177	67	1289239	565.6372582	ppb	98
109) Cyclohexane	3.805	84	133693	11.6884523	ppb	99
110) tert-butyl formate	4.067	59	616971	114.0732454	ppb	100
111) ISOBUTANOL	4.213	43	366030	1081.3807404	ppb #	99
112) t-Amyl Alcohol	4.280	59	29151	60.2532472	ppb	88
113) TERT-AMYL METHYL ETHER	4.195	73	211066	11.4668606	ppb #	93
115) N-BUTANOL	4.615	56	368724	2135.9255028	ppb	100
116) Methyl Cyclohexane	4.487	83	165015	11.6565480	ppb	99
117) 2-nitropropane	5.491	43	92956	56.9497514	ppb	99
118) METHYL METHACRYLATE	4.876	41	291199	59.4079216	ppb	100
119) 1,4-DIOXANE	4.931	88	57491	1148.0121792	ppb	93
120) n-octane	5.193	85	83540	11.8597647	ppb	98
121) 3,3-DIMETHYL-1-BUTANOL	6.075	57	47291	101.4246715	ppb	94
123) ETHYL METHACRYLATE	5.667	69	435112	58.9152243	ppb	94
124) CIS-1,4-DICHLORO-2-BUTENE	7.224	53	105150	56.9397473	ppb	97
125) Cyclohexanone	7.492	55	18776	105.5978991	ppb #	88
126) PENTACHLOROETHANE	7.687	117	231251	57.5844789	ppb	100
127) Hexachloroethane	8.362	117	57621	11.7383197	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 35.D
Acq On : 2 May 2015 1:33 am
Operator : 621
Sample : STD VMS 12.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:46:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 36.D
Acq On : 2 May 2015 1:53 am
Operator : 621
Sample : STD VMS 15a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:47:10 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

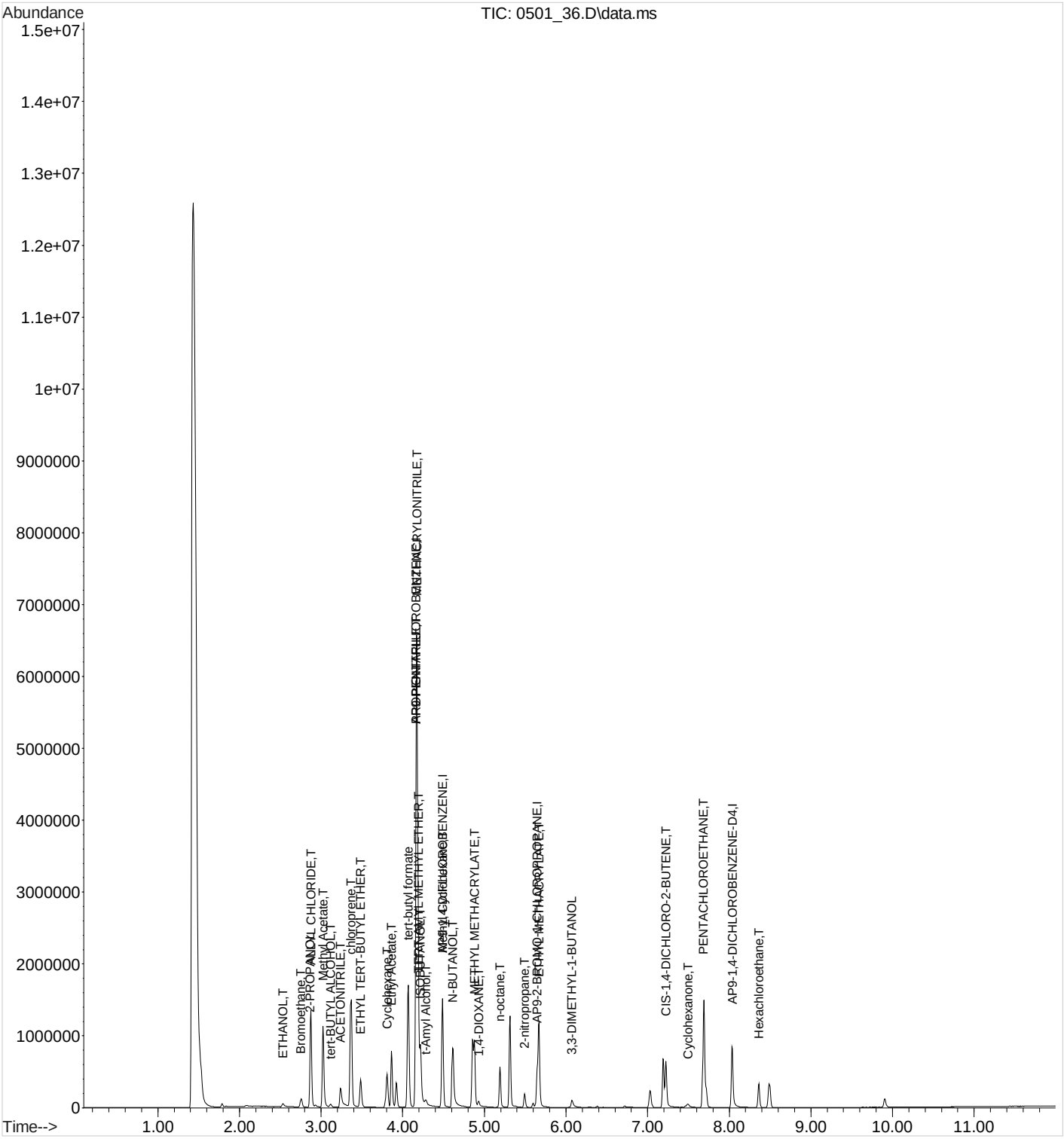
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb		-4.16
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb		-4.49
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000 ppb		-5.64
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000 ppb		-8.03
96)	AP9-PENTAFLUOROBENZENE	4.165	168	333422	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	559097	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.643	79	85031	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	217814	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
97)	ETHANOL	2.534	45	51368	915.9485674 ppb	#	98
98)	Bromoethane	2.753	108	73936	14.6287035 ppb		97
99)	2-PROPANOL	2.863	45	17602	60.3696699 ppb		98
100)	Methyl Acetate	3.021	43	1165629	294.8085587 ppb	#	99
101)	ACETONITRILE	3.234	41	366686	677.4210683 ppb		93
102)	ALLYL CHLORIDE	2.875	76	245560	71.7314018 ppb		99
103)	tert-BUTYL ALCOHOL	3.118	59	46387	65.0762680 ppb	#	96
104)	chloroprene	3.368	53	734697	71.7105290 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.483	59	270789	14.2174783 ppb		99
106)	PROPIONITRILE	4.165	54	510834	733.1629342 ppb		98
107)	Ethyl Acetate	3.860	43	676965	147.4660840 ppb		100
108)	METHACRYLONITRILE	4.177	67	1589786	735.7620961 ppb		98
109)	Cyclohexane	3.806	84	158138	14.5840703 ppb		99
110)	tert-butyl formate	4.067	59	745015	145.3042215 ppb		100
111)	ISOBUTANOL	4.213	43	490428	1528.3801012 ppb	#	93
112)	t-Amyl Alcohol	4.280	59	37593	81.9649453 ppb		95
113)	TERT-AMYL METHYL ETHER	4.195	73	253100	14.5048274 ppb	#	94
115)	N-BUTANOL	4.609	56	464514	2864.1886276 ppb		100
116)	Methyl Cyclohexane	4.487	83	191733	14.4165556 ppb		100
117)	2-nitropropane	5.491	43	113089	73.7484475 ppb		98
118)	METHYL METHACRYLATE	4.876	41	337382	73.2646538 ppb		98
119)	1,4-DIOXANE	4.931	88	65140	1384.5622945 ppb		96
120)	n-octane	5.193	85	95390	14.4145989 ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.069	57	61218	139.7533937 ppb		96
123)	ETHYL METHACRYLATE	5.667	69	503114	73.4945932 ppb		88
124)	CIS-1,4-DICHLORO-2-BUTENE	7.225	53	129947	75.9162992 ppb		94
125)	Cyclohexanone	7.492	55	24942	151.3373027 ppb		95
126)	PENTACHLOROETHANE	7.687	117	265767	71.3978918 ppb		99
127)	Hexachloroethane	8.362	117	64885	14.2604084 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 36.D
Acq On : 2 May 2015 1:53 am
Operator : 621
Sample : STD VMS 15a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:47:10 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 37.D
Acq On : 2 May 2015 2:12 am
Operator : 621
Sample : STD VMS 17.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:47:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration

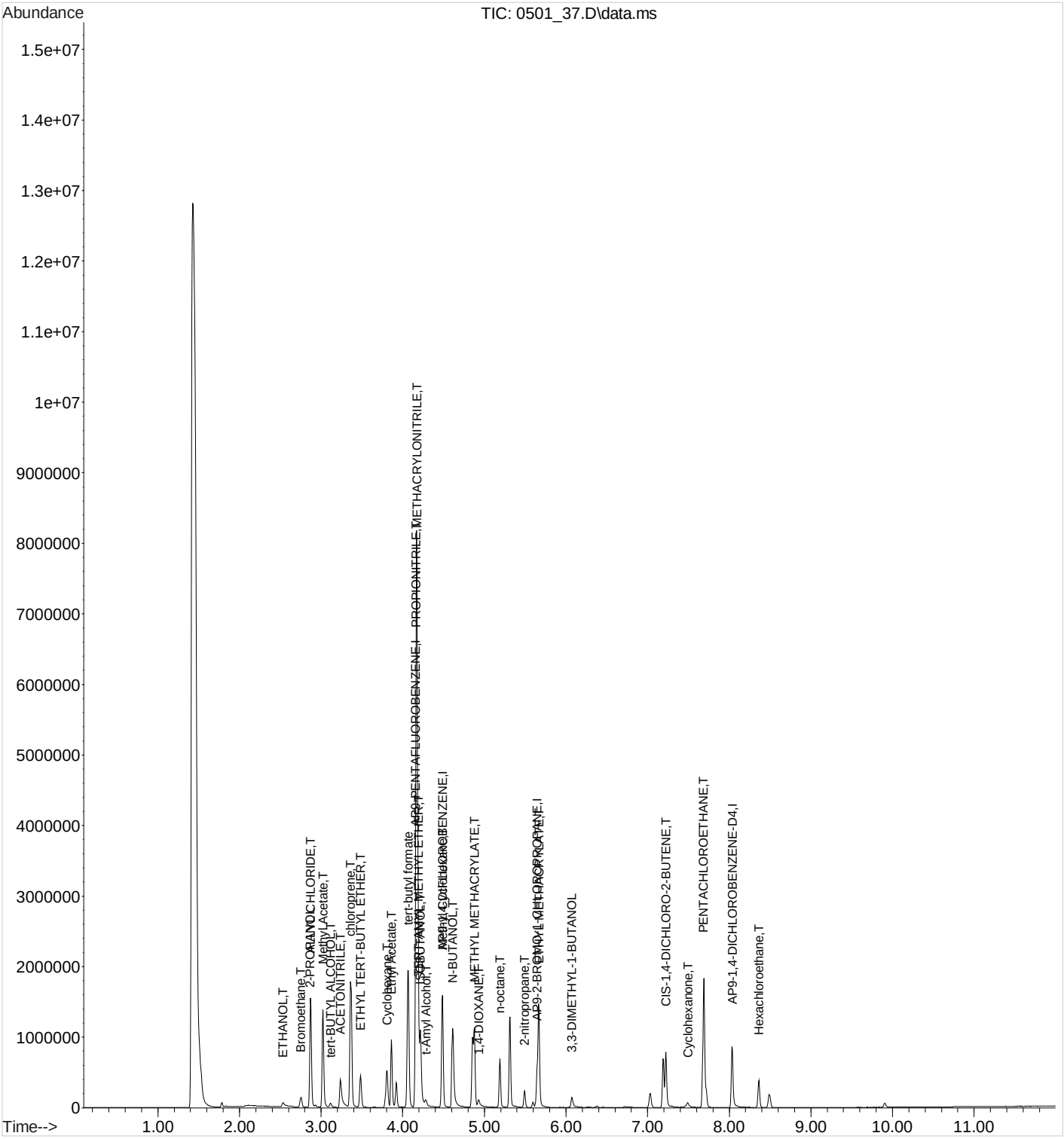
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.03
96) AP9-PENTAFLUOROBENZENE	4.159	168	346451	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	576906	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	89041	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	223368	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
97) ETHANOL	2.534	45	104398	1791.5256999	ppb	#	94
98) Bromoethane	2.753	108	84411	16.0731636	ppb		99
99) 2-PROPANOL	2.863	45	28726	94.8165990	ppb		96
100) Methyl Acetate	3.021	43	1359323	330.8680577	ppb	#	100
101) ACETONITRILE	3.234	41	491268	873.4444298	ppb		99
102) ALLYL CHLORIDE	2.869	76	285952	80.3891182	ppb		100
103) tert-BUTYL ALCOHOL	3.118	59	59875	80.8396292	ppb	#	97
104) chloroprene	3.362	53	853607	80.1835095	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.483	59	319930	16.1658652	ppb		99
106) PROPIONITRILE	4.165	54	619973	856.3393771	ppb		99
107) Ethyl Acetate	3.860	43	825819	173.1263749	ppb		99
108) METHACRYLONITRILE	4.177	67	1894493	843.8090530	ppb		99
109) Cyclohexane	3.806	84	182331	16.1828666	ppb		99
110) tert-butyl formate	4.067	59	874366	164.1190180	ppb		100
111) ISOBUTANOL	4.213	43	577768	1732.8542463	ppb	#	95
112) t-Amyl Alcohol	4.286	59	45014	94.4541857	ppb		95
113) TERT-AMYL METHYL ETHER	4.195	73	296786	16.3687782	ppb	#	93
115) N-BUTANOL	4.609	56	589330	3521.6278843	ppb		99
116) Methyl Cyclohexane	4.487	83	224188	16.3365036	ppb		99
117) 2-nitropropane	5.491	43	138604	87.5972331	ppb		99
118) METHYL METHACRYLATE	4.876	41	421548	88.7159551	ppb		96
119) 1,4-DIOXANE	4.931	88	85899	1769.4364130	ppb		98
120) n-octane	5.193	85	117602	17.2225132	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.069	57	78724	174.1696522	ppb		97
123) ETHYL METHACRYLATE	5.667	69	620421	86.5491356	ppb		83
124) CIS-1,4-DICHLORO-2-BUTENE	7.225	53	156740	87.4451790	ppb		94
125) Cyclohexanone	7.492	55	31720	183.7956171	ppb		94
126) PENTACHLOROETHANE	7.687	117	315811	81.0212324	ppb		99
127) Hexachloroethane	8.362	117	78353	16.4448737	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 37.D
Acq On : 2 May 2015 2:12 am
Operator : 621
Sample : STD VMS 17.5a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:47:27 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:43:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 38.D
Acq On : 2 May 2015 2:32 am
Operator : 621
Sample : STD VMS 20a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:50:31 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

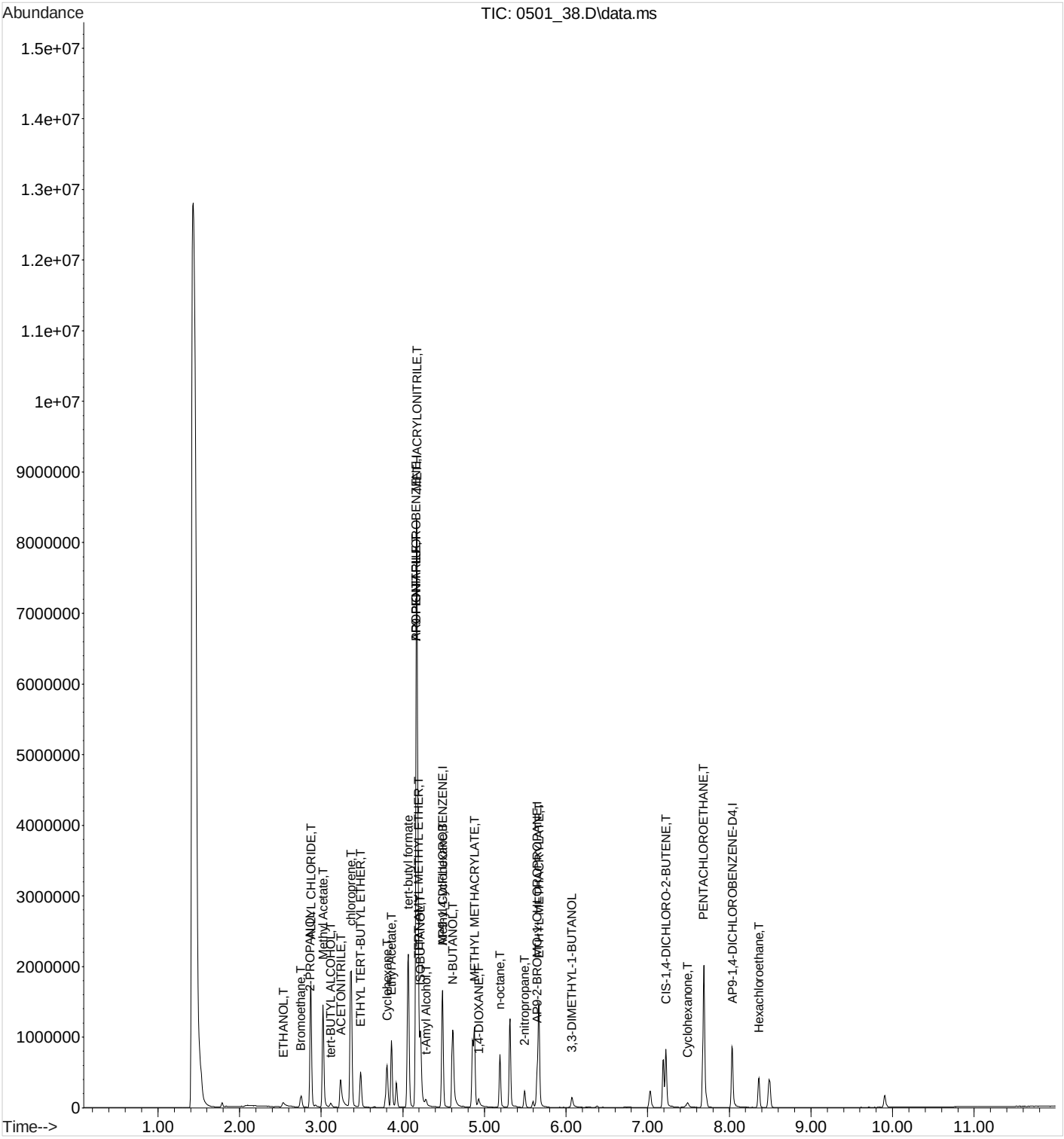
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.16
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.49
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000 ppb	-5.64
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000 ppb	-8.03
96) AP9-PENTAFLUOROBENZENE	4.164	168	334393	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	560976	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	85598	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	223264	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
97) ETHANOL	2.540	45	112218	2178.9081107 ppb #	97
98) Bromoethane	2.753	108	95415	19.4497796 ppb	99
99) 2-PROPANOL	2.862	45	27184	102.5645908 ppb	99
100) Methyl Acetate	3.021	43	1428876	383.5398538 ppb #	100
101) ACETONITRILE	3.240	41	519185	1031.3187132 ppb	96
102) ALLYL CHLORIDE	2.875	76	320724	97.9149255 ppb	100
103) tert-BUTYL ALCOHOL	3.118	59	62006	94.4546895 ppb #	95
104) chloroprene	3.367	53	956627	97.7472719 ppb	99
105) ETHYL TERT-BUTYL ETHER	3.483	59	353377	19.2567207 ppb	100
106) PROPIONITRILE	4.164	54	645940	987.0499028 ppb	99
107) Ethyl Acetate	3.860	43	823936	189.1443270 ppb	99
108) METHACRYLONITRILE	4.177	67	1977688	965.5923184 ppb	99
109) Cyclohexane	3.805	84	204110	19.2790816 ppb	99
110) tert-butyl formate	4.067	59	959276	197.0575125 ppb	100
111) ISOBUTANOL	4.213	43	619502	1989.7627229 ppb #	94
112) t-Amyl Alcohol	4.286	59	43501	88.1036987 ppb	94
113) TERT-AMYL METHYL ETHER	4.195	73	326239	19.4078623 ppb #	96
115) N-BUTANOL	4.608	56	594867	4093.0896608 ppb	99
116) Methyl Cyclohexane	4.487	83	247278	19.7887751 ppb	100
117) 2-nitropropane	5.491	43	140351	96.9184577 ppb	98
118) METHYL METHACRYLATE	4.876	41	417551	94.5145645 ppb	98
119) 1,4-DIOXANE	4.931	88	92336	2031.3358307 ppb	93
120) n-octane	5.192	85	124856	19.4313993 ppb	99
121) 3,3-DIMETHYL-1-BUTANOL	6.069	57	80133	196.0008356 ppb	96
123) ETHYL METHACRYLATE	5.667	69	632691	97.5136162 ppb #	82
124) CIS-1,4-DICHLORO-2-BUTENE	7.224	53	165530	100.2767936 ppb	93
125) Cyclohexanone	7.486	55	31161	178.3942504 ppb #	88
126) PENTACHLOROETHANE	7.687	117	351342	99.5310335 ppb	99
127) Hexachloroethane	8.362	117	88976	20.2807832 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 38.D
Acq On : 2 May 2015 2:32 am
Operator : 621
Sample : STD VMS 20a ppb 15C22898
Misc : water IS/SURR15C12445
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 15:50:31 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



V818E01O.M Sun May 03 15:50:34 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 43.D
Acq On : 2 May 2015 4:12 am
Operator : 621
Sample : STD GROMS 0.4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:01 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	310094	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	533349	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	83309	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	219238	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	310094	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	533349	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	83309	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	219238	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	154517	40.8974712	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.24%			
46) a,a,a-Trifluorotoluene	4.858	146	283388	39.8217346	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.55%			
50) TOLUENE-D8	5.314	98	651966	40.7651497	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.91%			
68) 4-BROMOFLUOROBENZENE	7.194	95	227409	40.0940103	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.24%			
Target Compounds						Qvalue
13) ACROLEIN	2.790	56	17813	27.9482962	ppb #	1
16) ACETONE	2.929	43	30605	17.6442695	ppb #	77
19) METHYLENE CHLORIDE	2.936	84	6897	1.1722980	ppb #	78
20) ACRYLONITRILE	3.428	53	4553	2.9254779	ppb #	38
21) n-Hexane	3.063	56	63125	10.5470910	ppb #	63
29) 2-BUTANONE (MEK)	3.994	43	9054	3.7530341	ppb #	49
31) TETRAHYDROFURAN	3.866	42	9405	5.9084942	ppb #	1
32) CHLOROFORM	3.805	83	3093	0.3089326	ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	268932	10.5027761	ppb #	90
38) HEPTANE	4.104	43	49623	4.1409924	ppb #	84
39) BENZENE	4.158	78	115442	4.8566517	ppb	95
43) 1,2-DICHLOROPROPANE	4.858	62	5491	1.2991614	ppb #	47
51) TOLUENE	5.345	91	940537	35.7477247	ppb	99
54) 1,1,2-TRICHLOROETHANE	5.704	97	1443	0.3300410	ppb #	1
57) 2-HEXANONE	5.989	58	1266	0.7077335	ppb #	1
62) ETHYLBENZENE	6.348	106	69387	7.5906019	ppb	100
63) M&P-XYLENE	6.446	106	309843	27.5391465	ppb	100
64) O-XYLENE	6.750	106	122182	11.5986313	ppb	96
65) STYRENE	6.750	104	5466	0.3367655	ppb #	1
67) Isopropylbenzene	6.969	105	19388	0.6796019	ppb #	92
70) 1,1,2,2-TETRACHLOROETHANE	7.291	83	2053	0.3499945	ppb #	27
71) 1,2,3-TRICHLOROPROPANE	7.577	110	593	0.3847206	ppb #	24
72) TRANS-1,4-DICHLORO-2-B...	7.480	53	681	0.5011416	ppb #	22
73) n-Propylbenzene	7.273	91	77906	2.3324374	ppb	100
74) 4-ETHYLTOLUENE	7.340	105	310439	11.6146438	ppb	99
76) 4-Chlorotoluene	7.583	91	8658	0.4631324	ppb #	50
77) 1,3,5-Trimethylbenzene	7.413	105	88186	3.7473087	ppb	100
78) tert-Butylbenzene	7.711	119	36320	1.8582233	ppb #	69
79) 1,2,4-Trimethylbenzene	7.711	105	308906	13.3503582	ppb	99
80) sec-Butylbenzene	7.796	105	9332	0.3005460	ppb #	84
82) p-Isopropyltoluene	7.869	119	11242	0.4514242	ppb	98
86) 1,2,3-TRIMETHYLBENZENE	8.052	105	74662	3.2470742	ppb	99
88) n-Butylbenzene	8.234	91	10002	0.4451611	ppb #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 43.D
Acq On : 2 May 2015 4:12 am
Operator : 621
Sample : STD GROMS 0.4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:01 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

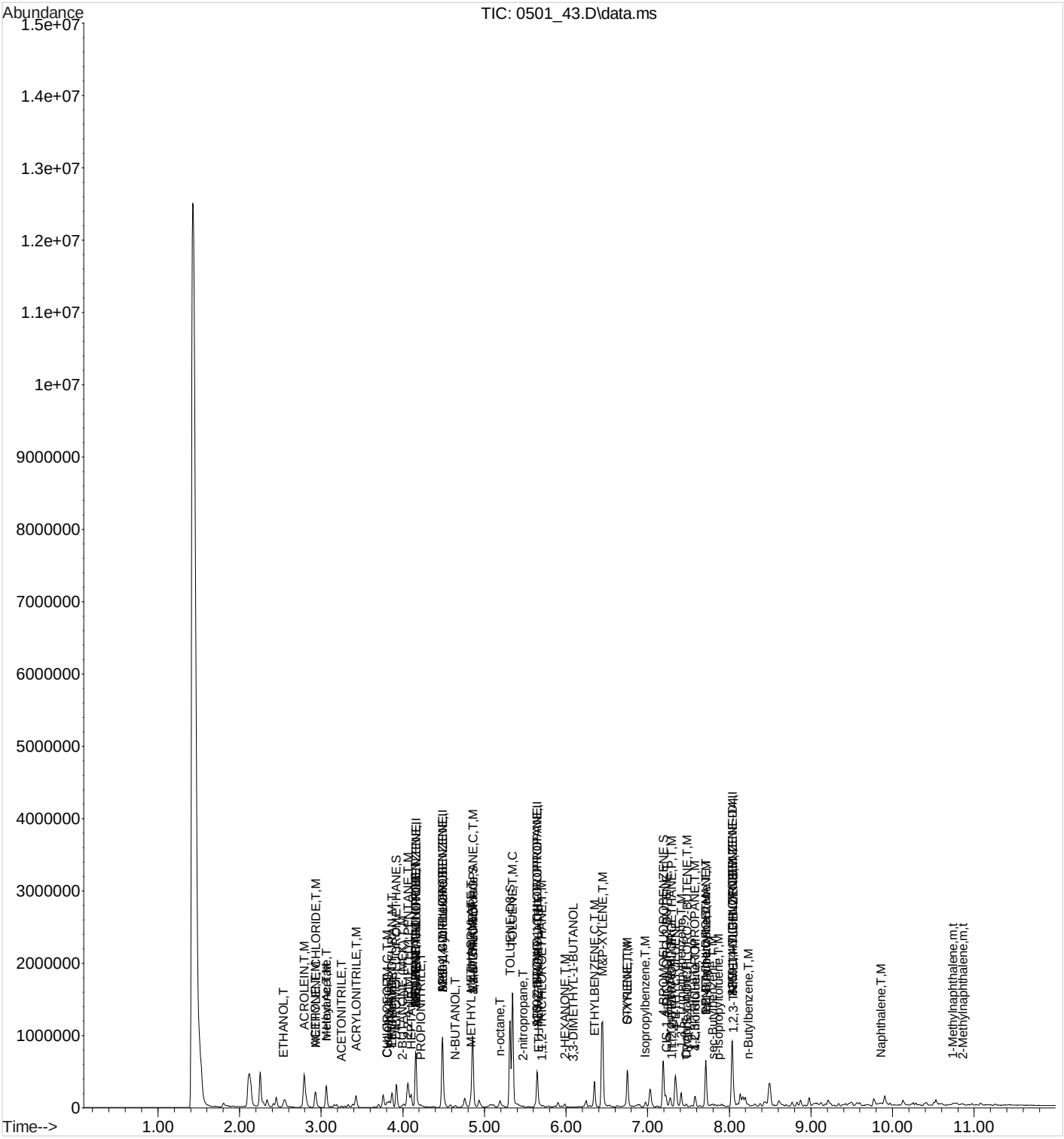
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
92)	Naphthalene	9.859	128	17682	1.0767045 ppb	#	91
94)	1-Methylnaphthalene	10.741	142	11770	1.3370040 ppb		97
95)	2-Methylnaphthalene	10.862	142	6552	0.8470241 ppb	#	87
97)	ETHANOL	2.540	45	1623	33.9827660 ppb	#	86
100)	Methyl Acetate	3.063	43	70089	20.2875515 ppb	#	54
101)	ACETONITRILE	3.246	41	5522	11.8285355 ppb	#	53
106)	PROPIONITRILE	4.219	54	1242	2.0465970 ppb	#	72
107)	Ethyl Acetate	3.866	43	95679	23.6853760 ppb	#	43
108)	METHACRYLONITRILE	4.158	67	788	0.4148834 ppb	#	1
109)	Cyclohexane	3.805	84	21313	2.1708532 ppb	#	38
115)	N-BUTANOL	4.639	56	1451	10.5010225 ppb	#	1
116)	Methyl Cyclohexane	4.487	83	39230	2.7708413 ppb	#	57
117)	2-nitropropane	5.472	43	3607	2.6198108 ppb	#	81
118)	METHYL METHACRYLATE	4.834	41	38703	9.2143910 ppb	#	16
119)	1,4-DIOXANE	4.852	88	3794	87.7891401 ppb	#	1
120)	n-octane	5.193	85	13625	2.2303035 ppb	#	85
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	1335	9.1658494 ppb	#	51
123)	ETHYL METHACRYLATE	5.661	69	1960	0.3103855 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.231	53	1922	1.1963240 ppb	#	3
125)	Cyclohexanone	7.474	55	2023	11.8997283 ppb		89
126)	PENTACHLOROETHANE	7.711	117	10713	3.1182523 ppb	#	13

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 43.D
Acq On : 2 May 2015 4:12 am
Operator : 621
Sample : STD GROMS 0.4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:01 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 43.D
Acq On    :  2 May 2015   4:12 am
Operator  : 621
Sample    : STD GROMS 0.4 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 31   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:02:52 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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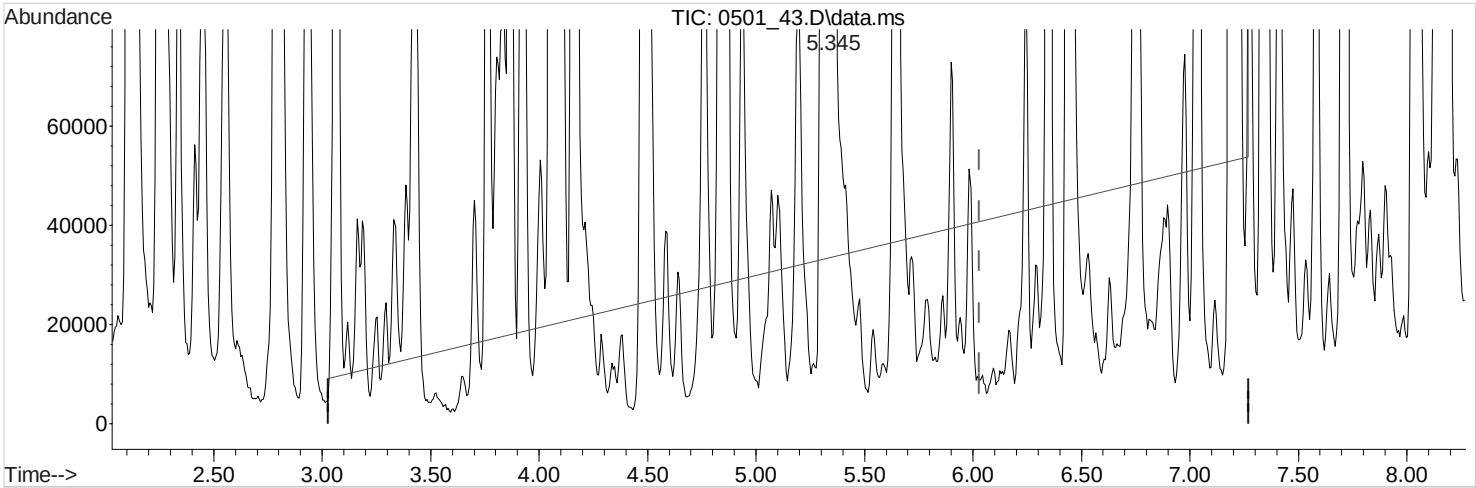

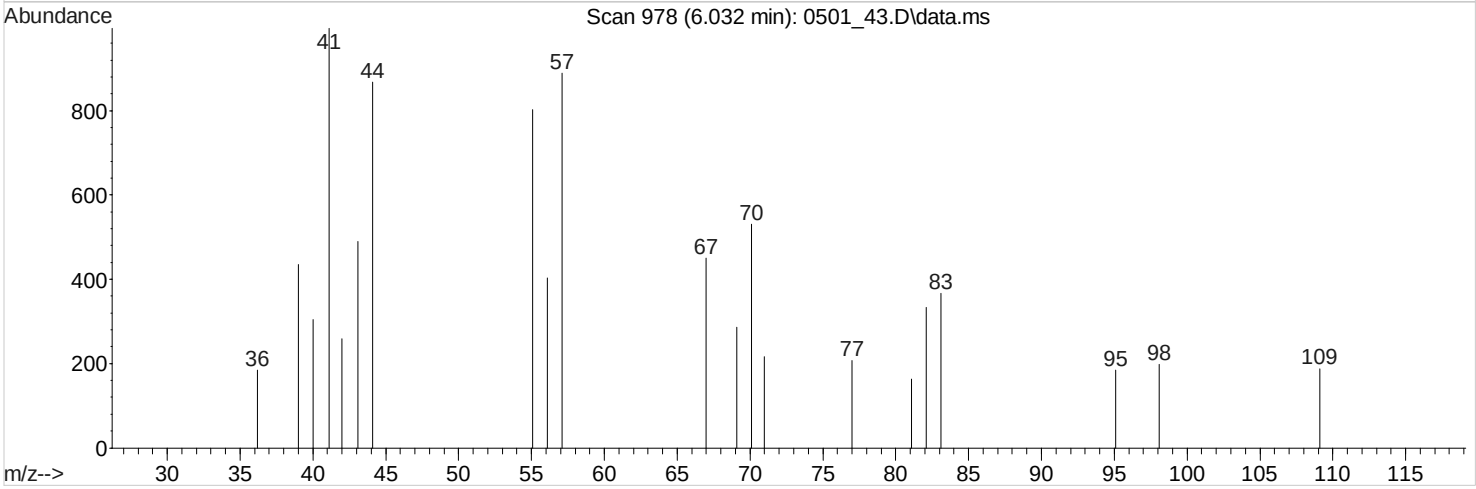

TIC: 0501_43.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 1665961

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	20.75#
0.00	0.00	8.15#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\050115\
Data File : 0501 43.D
Acq On    :  2 May 2015   4:12 am
Operator  : 621
Sample    : STD GROMS 0.4 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 31   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:02:52 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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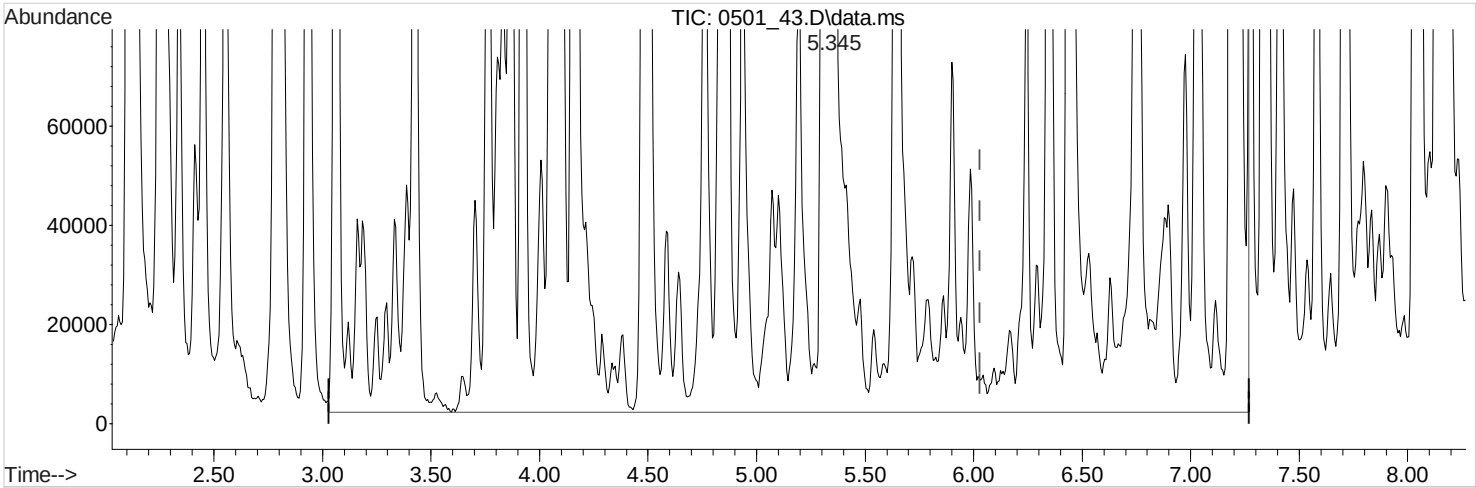
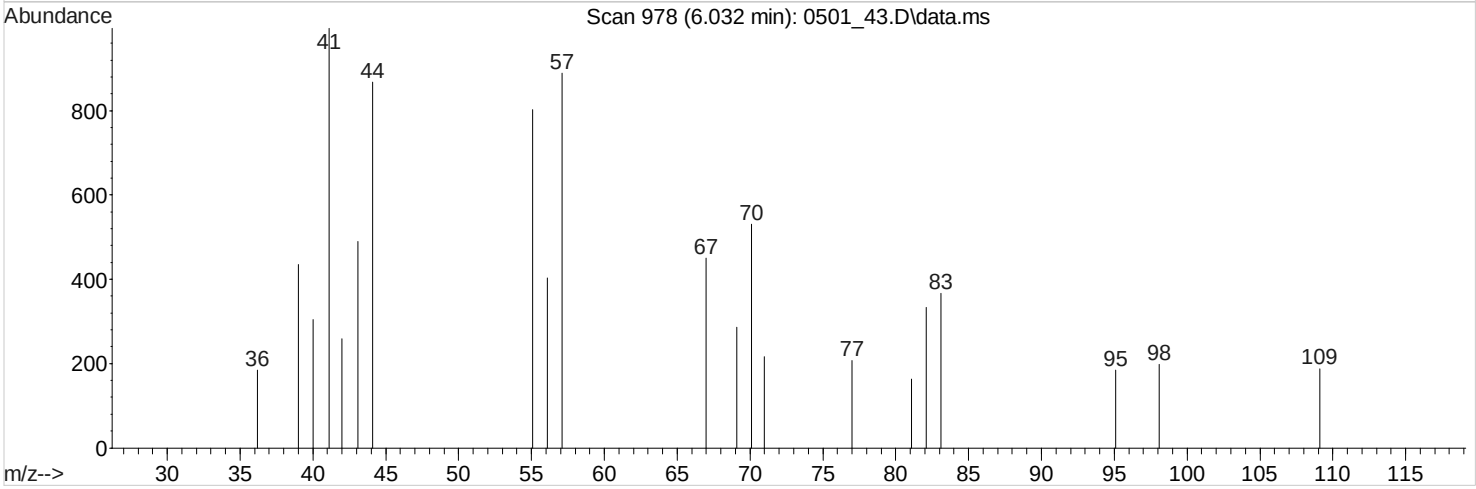




TIC: 0501_43.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 9533012

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	3.63#
0.00	0.00	1.42#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 44.D
Acq On : 2 May 2015 4:32 am
Operator : 621
Sample : STD GROMS 1 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:32 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	286609	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	490133	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	76211	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	201691	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	286609	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	490133	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	76211	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	201691	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	140668	40.2827434	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.71%			
46) a,a,a-Trifluorotoluene	4.852	146	267307	40.8739482	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.18%			
50) TOLUENE-D8	5.314	98	608208	41.3822178	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.46%			
68) 4-BROMOFLUOROBENZENE	7.194	95	210653	40.5988526	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.50%			
Target Compounds						Qvalue
3) PROPENE	1.567	41	1363	0.6221510	ppb #	15
5) CHLOROMETHANE	1.804	50	2856	0.4418804	ppb #	48
13) ACROLEIN	2.790	56	42029	71.3462031	ppb #	1
16) ACETONE	2.930	43	71750	44.7545035	ppb #	76
19) METHYLENE CHLORIDE	2.936	84	7495	1.3783292	ppb #	44
20) ACRYLONITRILE	3.422	53	11170	7.7652578	ppb #	40
21) n-Hexane	3.063	56	157689	28.5059973	ppb #	64
27) 2,2-Dichloropropane	3.702	77	3178	0.4992911	ppb #	57
29) 2-BUTANONE (MEK)	3.994	43	25049	11.2340397	ppb #	56
31) TETRAHYDROFURAN	3.866	42	22631	15.3824424	ppb #	1
32) CHLOROFORM	3.806	83	6427	0.6945374	ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.061	57	632027	26.7055052	ppb #	89
38) HEPTANE	4.104	43	141900	12.8117173	ppb #	98
39) BENZENE	4.158	78	291597	13.2727131	ppb	100
43) 1,2-DICHLOROPROPANE	4.852	62	4891	1.2592352	ppb #	35
45) BROMODICHLOROMETHANE	4.864	83	2908	0.4077695	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.625	58	1577	0.8878231	ppb #	1
51) TOLUENE	5.345	91	2436333	100.7643039	ppb	99
52) TRANS-1,3-DICHLOROPROPENE	5.643	110	654	0.3703330	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.710	97	4820	1.2050995	ppb #	1
57) 2-HEXANONE	5.983	58	3000	1.8332917	ppb #	1
62) ETHYLBENZENE	6.348	106	177286	21.2005343	ppb	99
63) M&P-XYLENE	6.446	106	804383	78.1530501	ppb	99
64) O-XYLENE	6.750	106	319482	33.1527967	ppb	99
65) STYRENE	6.750	104	8792	0.5921339	ppb #	1
67) Isopropylbenzene	6.969	105	53442	2.0477574	ppb	98
69) Bromobenzene	7.273	77	6705	0.6194860	ppb #	28
70) 1,1,2,2-TETRACHLOROETHANE	7.298	83	4407	0.8212768	ppb #	27
71) 1,2,3-TRICHLOROPROPANE	7.431	110	654	0.4638128	ppb #	1
72) TRANS-1,4-DICHLORO-2-B...	7.474	53	869	0.6990486	ppb #	22
73) n-Propylbenzene	7.273	91	198007	6.4802818	ppb	99
74) 4-ETHYLTOLUENE	7.340	105	787694	32.2152434	ppb	99
76) 4-Chlorotoluene	7.577	91	22573	1.3199308	ppb #	50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 44.D
Acq On : 2 May 2015 4:32 am
Operator : 621
Sample : STD GROMS 1 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:32 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

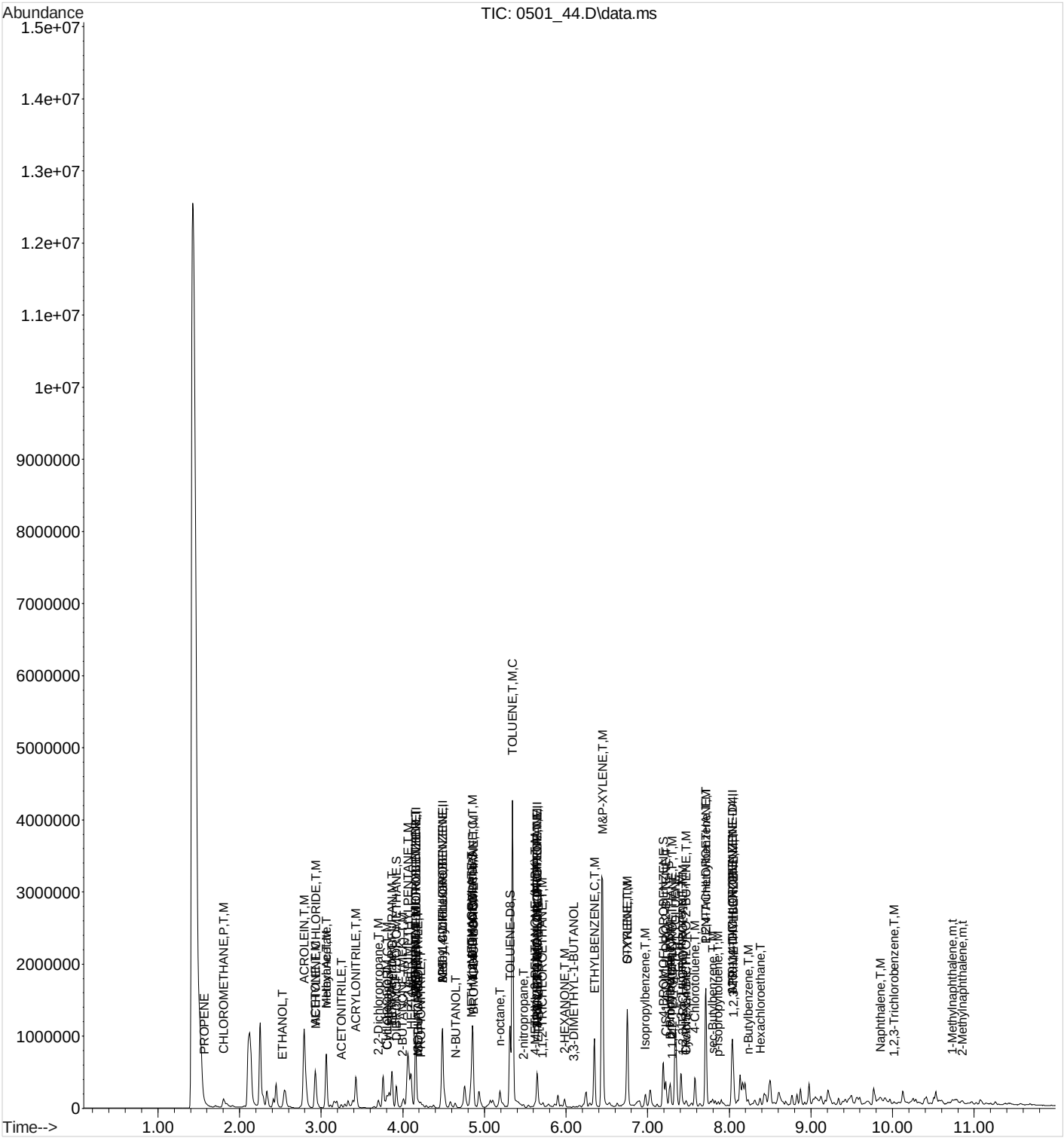
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77)	1,3,5-Trimethylbenzene	7.413	105	224278	10.4179139	ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	789538	37.3004328	ppb		100
80)	sec-Butylbenzene	7.796	105	23170	0.8157115	ppb	#	83
82)	p-Isopropyltoluene	7.863	119	27898	1.2245839	ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	188482	8.9102890	ppb		99
88)	n-Butylbenzene	8.234	91	26864	1.2996617	ppb	#	96
92)	Naphthalene	9.853	128	39302	2.6014118	ppb	#	80
93)	1,2,3-Trichlorobenzene	10.017	180	2732	0.5087900	ppb	#	13
94)	1-Methylnaphthalene	10.735	142	26784	3.3072042	ppb		93
95)	2-Methylnaphthalene	10.856	142	14023	1.9705713	ppb		97
97)	ETHANOL	2.528	45	5186	117.4833326	ppb	#	36
99)	2-PROPANOL	2.875	45	587	Below Cal		#	56
100)	Methyl Acetate	3.063	43	178834	56.0058510	ppb	#	54
101)	ACETONITRILE	3.246	41	13400	31.0558138	ppb	#	45
106)	PROPIONITRILE	4.219	54	3379	6.0242429	ppb	#	20
107)	Ethyl Acetate	3.866	43	236315	63.2934085	ppb	#	44
108)	METHACRYLONITRILE	4.189	67	1060	0.6038224	ppb	#	1
109)	Cyclohexane	3.806	84	55935	6.1641480	ppb	#	1
111)	ISOBUTANOL	4.189	43	644	2.4133027	ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	5146	0.3571733	ppb	#	1
115)	N-BUTANOL	4.645	56	3278	25.8149131	ppb	#	1
116)	Methyl Cyclohexane	4.487	83	87782	7.6616971	ppb	#	48
117)	2-nitropropane	5.479	43	9087	7.1819413	ppb	#	81
118)	METHYL METHACRYLATE	4.840	41	89590	23.2102107	ppb	#	50
119)	1,4-DIOXANE	4.852	88	3060	77.0481892	ppb	#	1
120)	n-octane	5.193	85	33504	5.9679016	ppb		89
121)	3,3-DIMETHYL-1-BUTANOL	6.093	57	3281	14.7452998	ppb	#	37
123)	ETHYL METHACRYLATE	5.655	69	4065	0.7036879	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.225	53	4501	3.0625183	ppb	#	3
125)	Cyclohexanone	7.474	55	5015	32.2467805	ppb	#	71
126)	PENTACHLOROETHANE	7.711	117	26537	8.4435723	ppb	#	13
127)	Hexachloroethane	8.380	117	1243	0.3182211	ppb	#	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 44.D
Acq On : 2 May 2015 4:32 am
Operator : 621
Sample : STD GROMS 1 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS18

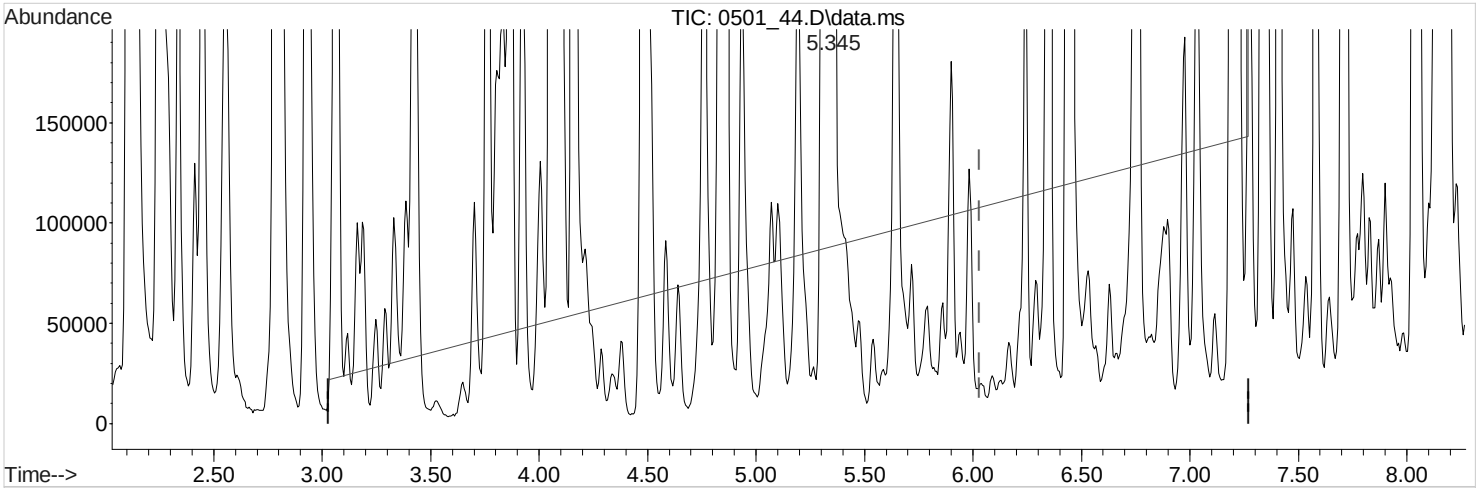
Quant Time: May 03 16:03:32 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

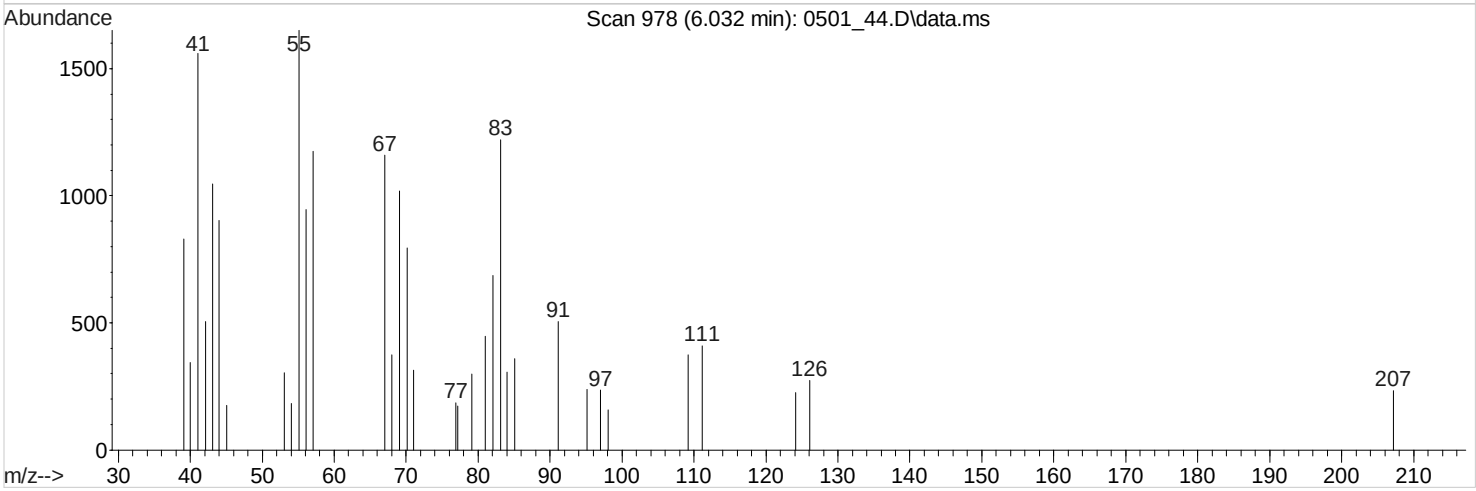


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 44.D
Acq On : 2 May 2015 4:32 am
Operator : 621
Sample : STD GROMS 1 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:24 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_44.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

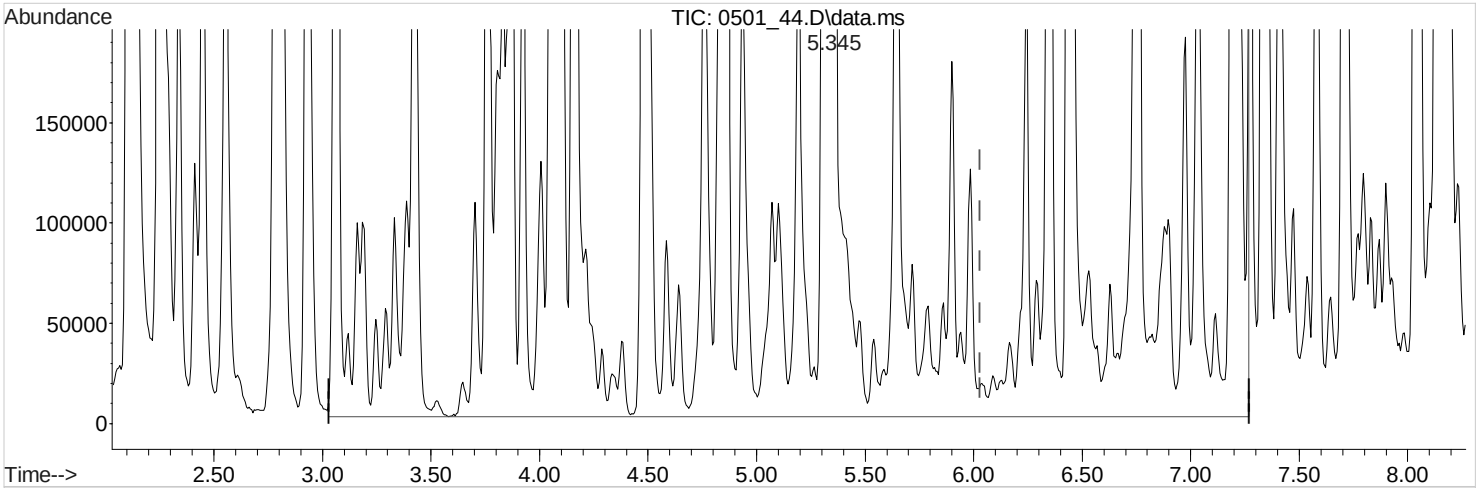
response 10395966

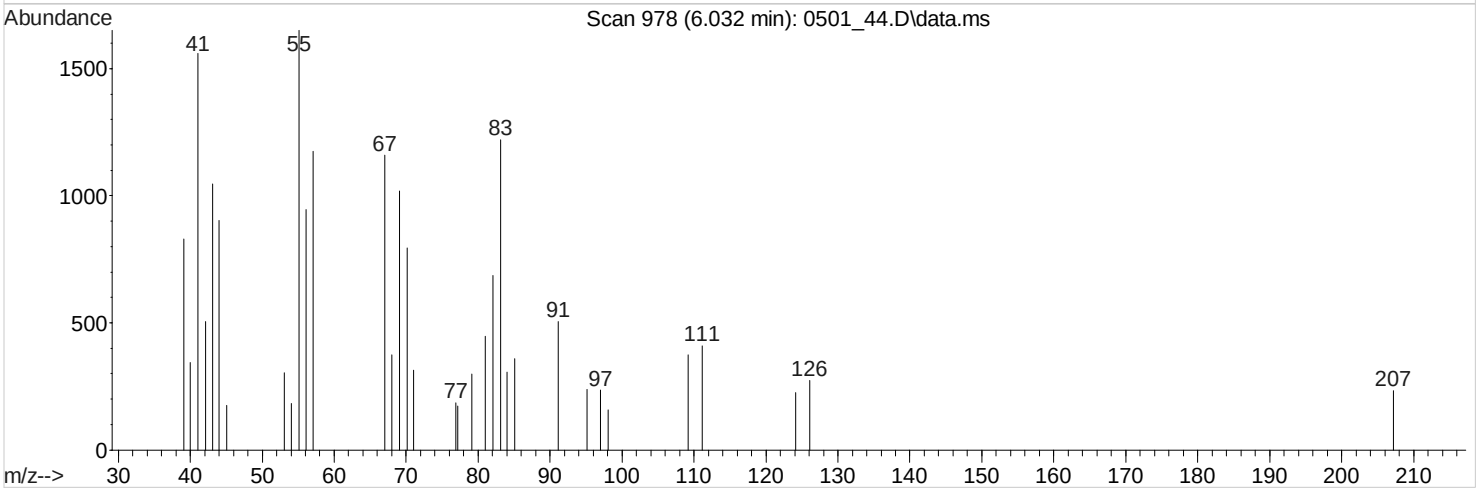
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	3.06#
0.00	0.00	1.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 44.D
Acq On : 2 May 2015 4:32 am
Operator : 621
Sample : STD GROMS 1 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:24 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_44.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 27410211

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.16#
0.00	0.00	0.47#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 45.D
Acq On : 2 May 2015 4:52 am
Operator : 621
Sample : STD GROMS 2 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	296299	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	510534	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	80203	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	206806	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	296299	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	510534	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	80203	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	206806	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	143301	39.6947057	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.24%			
46) a,a,a-Trifluorotoluene	4.858	146	274666	40.3209202	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.80%			
50) TOLUENE-D8	5.314	98	625815	40.8786812	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.20%			
68) 4-BROMOFLUOROBENZENE	7.188	95	221139	40.4984591	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.25%			
Target Compounds						Qvalue
5) CHLOROMETHANE	1.804	50	6537	0.9783284	ppb #	72
7) 1,3-BUTADIENE	1.853	39	15578	2.6148836	ppb #	11
13) ACROLEIN	2.790	56	87455	143.6038525	ppb #	1
16) ACETONE	2.930	43	145688	87.9018991	ppb #	74
19) METHYLENE CHLORIDE	2.936	84	7362	1.3095943	ppb #	1
20) ACRYLONITRILE	3.428	53	24259	16.3130527	ppb #	40
21) n-Hexane	3.063	56	327499	57.2670032	ppb #	64
25) VINYL ACETATE	3.526	43	5866	0.6549589	ppb #	74
27) 2,2-Dichloropropane	3.708	77	5074	0.7710988	ppb #	57
29) 2-BUTANONE (MEK)	3.994	43	51106	22.1705817	ppb #	55
31) TETRAHYDROFURAN	3.939	42	943	0.6200017	ppb #	1
32) CHLOROFORM	3.806	83	13145	1.3740659	ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.067	57	1265049	51.7049535	ppb #	90
38) HEPTANE	4.104	43	326978	28.5563780	ppb #	94
39) BENZENE	4.158	78	589957	25.9750655	ppb	99
45) BROMODICHLOROMETHANE	4.864	83	5555	0.7478141	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.539	58	922	0.4983276	ppb #	1
51) TOLUENE	5.345	91	4996447	198.3903850	ppb	99
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	1200	0.6523568	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.704	97	8435	2.0039552	ppb #	18
57) 2-HEXANONE	6.172	58	811	0.4709320	ppb #	59
62) ETHYLBENZENE	6.349	106	369210	41.9539509	ppb	100
63) M&P-XYLENE	6.446	106	1689968	156.0229829	ppb	99
64) O-XYLENE	6.750	106	655955	64.6807236	ppb	97
65) STYRENE	6.750	104	17550	1.1231465	ppb #	33
67) Isopropylbenzene	6.969	105	106767	3.8874059	ppb	98
69) Bromobenzene	7.273	77	15260	1.3397207	ppb #	28
70) 1,1,2,2-TETRACHLOROETHANE	7.298	83	9388	1.6624425	ppb #	33
71) 1,2,3-TRICHLOROPROPANE	7.438	110	964	0.6496345	ppb #	24
72) TRANS-1,4-DICHLORO-2-B...	7.474	53	1411	1.0785535	ppb #	22
73) n-Propylbenzene	7.273	91	406068	12.6281335	ppb	100
74) 4-ETHYLTOLUENE	7.340	105	1648420	64.0617505	ppb	98
76) 4-Chlorotoluene	7.577	91	48255	2.6812126	ppb #	50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 45.D
Acq On : 2 May 2015 4:52 am
Operator : 621
Sample : STD GROMS 2 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

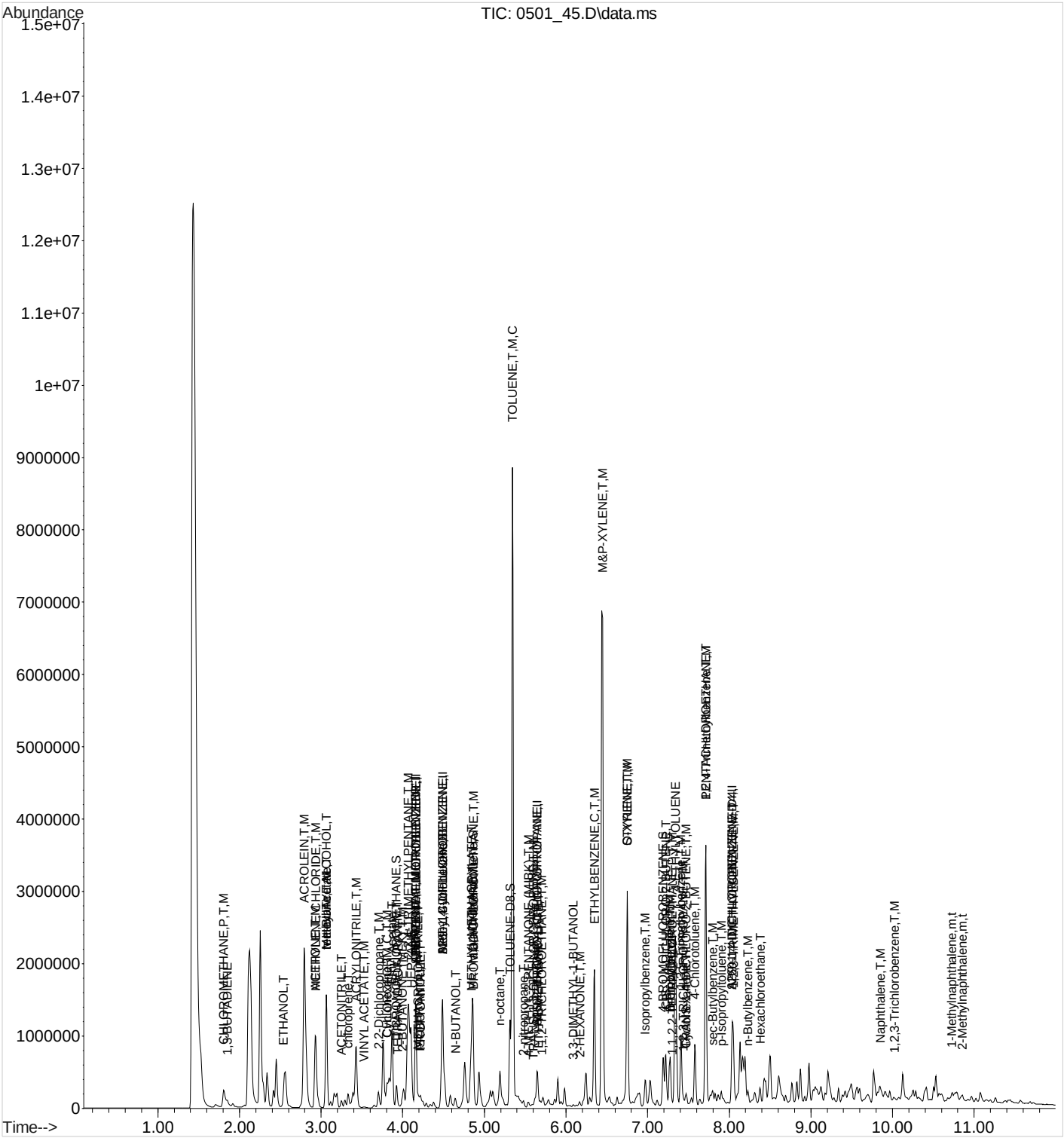
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
77)	1,3,5-Trimethylbenzene	7.407	105	458140	20.2217784 ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	1643025	73.7584960 ppb		100
80)	sec-Butylbenzene	7.796	105	45933	1.5366056 ppb	#	79
82)	p-Isopropyltoluene	7.900	119	20805	0.8677812 ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	384429	17.7239876 ppb		100
88)	n-Butylbenzene	8.228	91	55277	2.6081195 ppb	#	82
92)	Naphthalene	9.853	128	85510	5.5199450 ppb	#	80
93)	1,2,3-Trichlorobenzene	10.023	180	2158	0.3919518 ppb	#	13
94)	1-Methylnaphthalene	10.729	142	55285	6.6575781 ppb		97
95)	2-Methylnaphthalene	10.856	142	27140	3.7194989 ppb		97
97)	ETHANOL	2.540	45	8284	181.5279375 ppb	#	96
100)	Methyl Acetate	3.063	43	372065	112.7098227 ppb	#	54
101)	ACETONITRILE	3.246	41	28209	63.2390656 ppb	#	45
103)	tert-BUTYL ALCOHOL	3.063	59	507	0.8716151 ppb	#	1
104)	chloroprene	3.331	53	7577	0.8737482 ppb	#	25
106)	PROPIONITRILE	4.213	54	7114	12.2683959 ppb	#	1
107)	Ethyl Acetate	3.866	43	491505	127.3370467 ppb	#	44
108)	METHACRYLONITRILE	4.189	67	4611	2.5407278 ppb	#	1
109)	Cyclohexane	3.806	84	111445	11.8798140 ppb	#	1
111)	ISOBUTANOL	4.207	43	8737	31.6699885 ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	10318	0.6927305 ppb	#	1
115)	N-BUTANOL	4.645	56	7693	58.1629900 ppb	#	1
116)	Methyl Cyclohexane	4.487	83	177297	15.4550202 ppb	#	44
117)	2-nitropropane	5.479	43	19367	14.6951136 ppb	#	71
118)	METHYL METHACRYLATE	4.840	41	189193	47.0558784 ppb	#	39
119)	1,4-DIOXANE	4.852	88	3409	82.4057060 ppb	#	1
120)	n-octane	5.193	85	72428	12.3857059 ppb		90
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	6986	24.0504104 ppb	#	44
123)	ETHYL METHACRYLATE	5.661	69	9664	1.5896574 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.225	53	7075	4.5742845 ppb	#	3
125)	Cyclohexanone	7.474	55	10158	62.0655601 ppb	#	72
126)	PENTACHLOROETHANE	7.711	117	54415	16.4520523 ppb	#	13
127)	Hexachloroethane	8.380	117	1557	0.3787682 ppb	#	44

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 45.D
Acq On : 2 May 2015 4:52 am
Operator : 621
Sample : STD GROMS 2 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:00 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 45.D
Acq On    :  2 May 2015   4:52 am
Operator  : 621
Sample    : STD GROMS 2 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 33   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:03:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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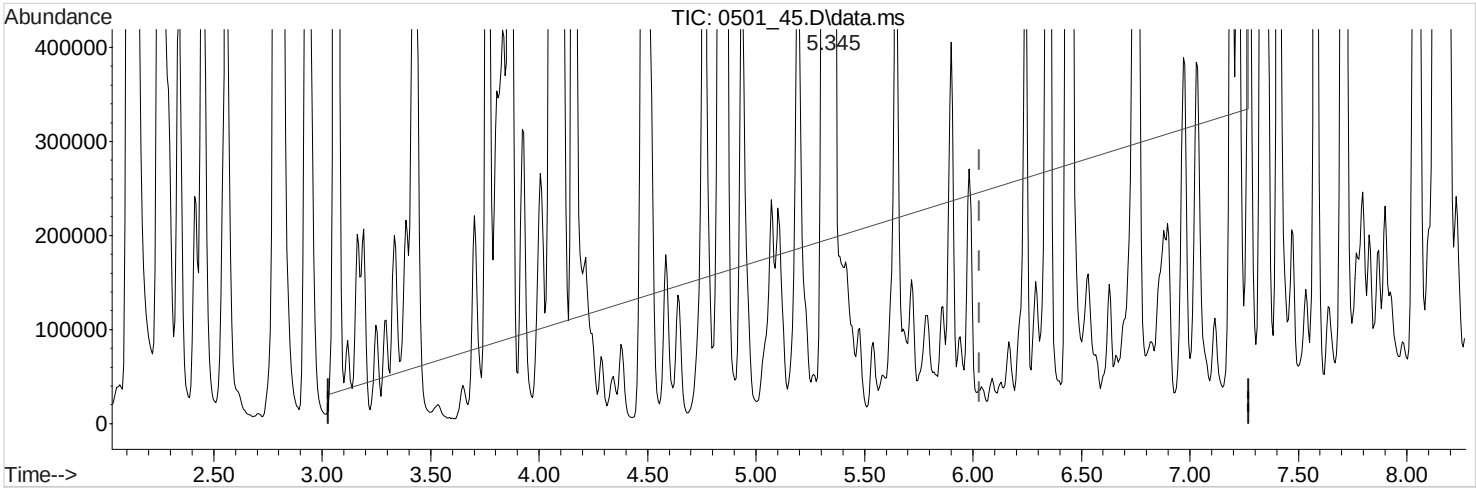
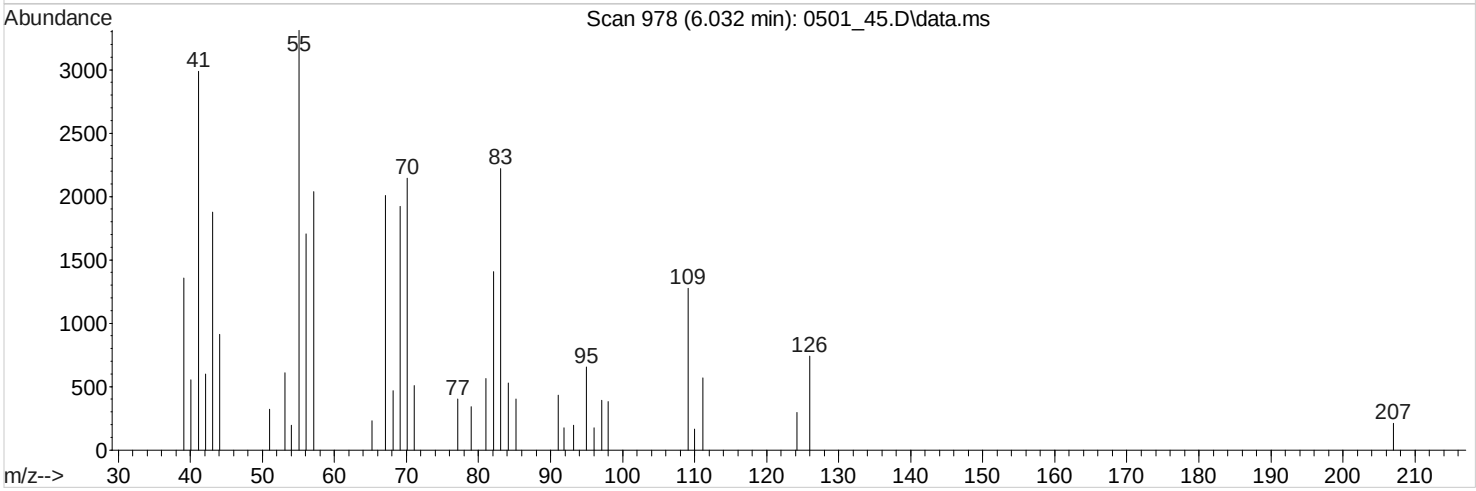




TIC: 0501_45.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

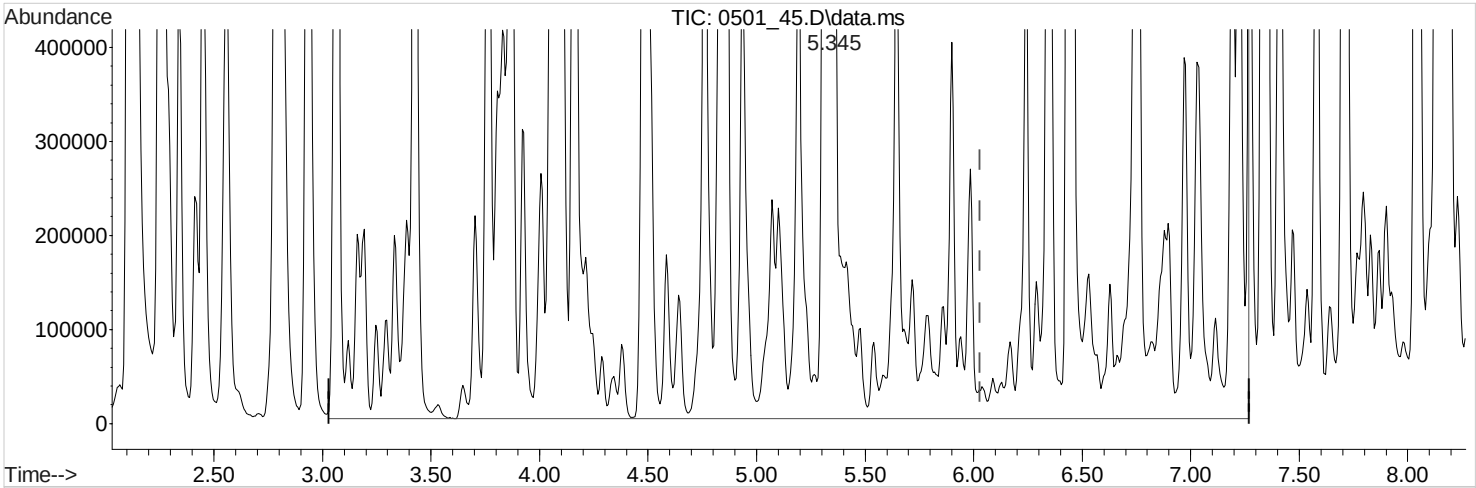
response 30119347

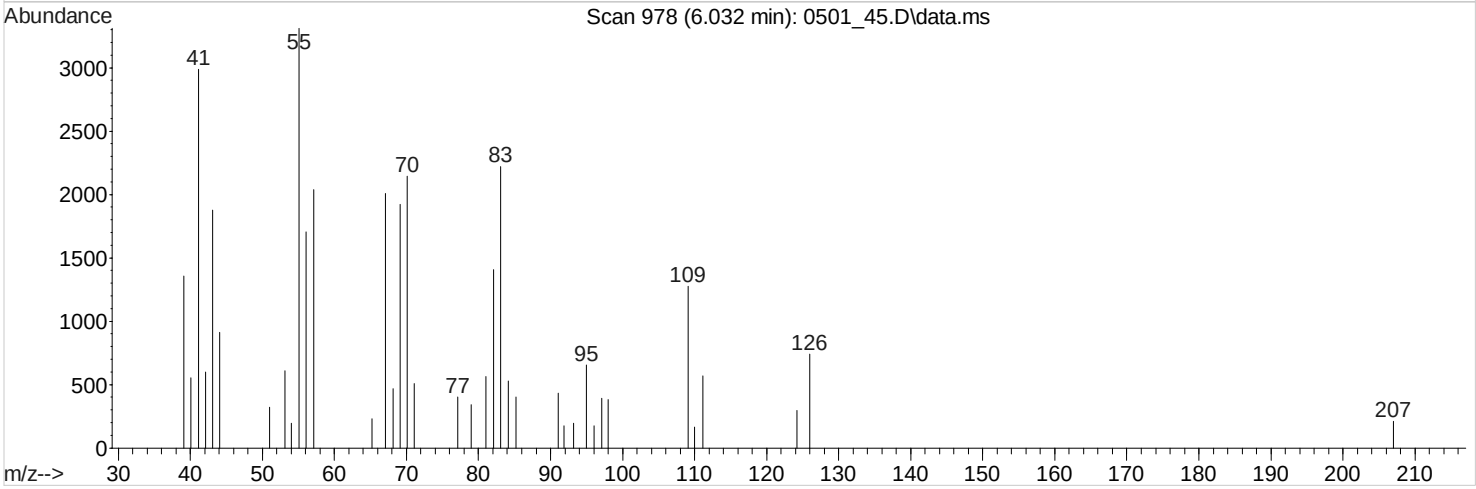
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.09#
0.00	0.00	0.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 45.D
Acq On : 2 May 2015 4:52 am
Operator : 621
Sample : STD GROMS 2 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:03:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_45.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 59248122

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.55#
0.00	0.00	0.23#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 46.D
Acq On : 2 May 2015 5:12 am
Operator : 621
Sample : STD GROMS 4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:26 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	314396	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	548874	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	88898	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	219640	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	314396	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	548874	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	88898	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	219640	40.0000000	ppb	# 0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	151218	39.4766261	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.69%			
46) a,a,a-Trifluorotoluene	4.852	146	290627	39.6838229	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.21%			
50) TOLUENE-D8	5.314	98	667409	40.5503847	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.38%			
68) 4-BROMOFLUOROBENZENE	7.188	95	242733	40.1051924	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.26%			
Target Compounds						Qvalue
3) PROPENE	1.585	41	1636	0.7900852	ppb #	58
5) CHLOROMETHANE	1.798	50	10589	1.4935313	ppb #	72
11) DICHLOROFLUOROMETHANE	2.291	67	4241	0.3812460	ppb #	1
13) ACROLEIN	2.790	56	175800	272.0529824	ppb #	1
16) ACETONE	2.929	43	290691	165.2948171	ppb #	74
19) METHYLENE CHLORIDE	2.936	84	8388	1.4062177	ppb #	1
20) ACRYLONITRILE	3.422	53	47460	30.0776051	ppb #	41
21) n-Hexane	3.063	56	658770	108.5629075	ppb #	64
25) VINYL ACETATE	3.526	43	11358	1.1951626	ppb #	87
27) 2,2-Dichloropropane	3.763	77	2107	0.3017709	ppb #	57
29) 2-BUTANONE (MEK)	3.994	43	102946	42.0889264	ppb #	56
31) TETRAHYDROFURAN	3.933	42	1194	0.7398415	ppb #	1
32) CHLOROFORM	3.805	83	23889	2.3534129	ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	2580923	99.4152538	ppb	91
38) HEPTANE	4.098	43	1099547	90.5006214	ppb #	65
39) BENZENE	4.158	78	1217607	50.5238693	ppb	99
43) 1,2-DICHLOROPROPANE	4.785	62	1878	0.4317636	ppb #	1
44) DIBROMOMETHANE	4.724	93	1061	0.3532949	ppb #	1
45) BROMODICHLOROMETHANE	4.870	83	9488	1.1880542	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.539	58	2677	1.3458121	ppb #	1
51) TOLUENE	5.345	91	10066399	371.7795410	ppb	97
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	1443	0.7296630	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.704	97	17101	3.6654141	ppb #	1
57) 2-HEXANONE	6.081	58	1066	0.5584614	ppb #	1
62) ETHYLBENZENE	6.348	106	761797	78.0975288	ppb	100
63) M&P-XYLENE	6.446	106	3524245	293.5450834	ppb	98
64) O-XYLENE	6.750	106	1359335	120.9277423	ppb	98
67) Isopropylbenzene	6.969	105	214290	7.0392012	ppb	99
69) Bromobenzene	7.273	77	30583	2.4223587	ppb #	28
70) 1,1,2,2-TETRACHLOROETHANE	7.291	83	19989	3.1934729	ppb #	32
71) 1,2,3-TRICHLOROPROPANE	7.437	110	2232	1.3570156	ppb #	24
72) TRANS-1,4-DICHLORO-2-B...	7.474	53	2327	1.6047584	ppb #	22
73) n-Propylbenzene	7.273	91	841154	23.6001376	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 46.D
Acq On : 2 May 2015 5:12 am
Operator : 621
Sample : STD GROMS 4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:26 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

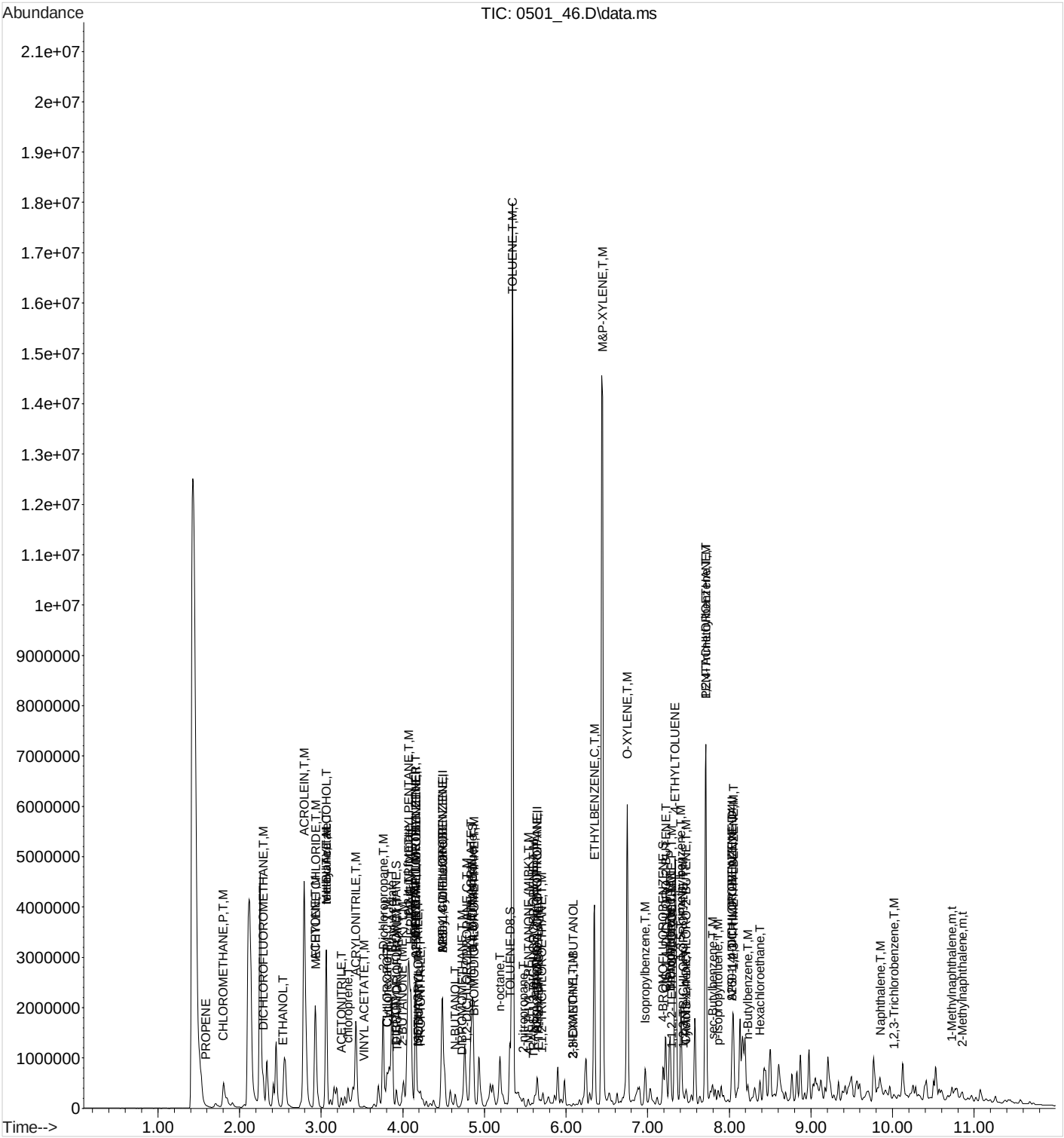
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
74)	4-ETHYLTOLUENE	7.334	105	3384498	118.6653191 ppb		98
77)	1,3,5-Trimethylbenzene	7.407	105	926253	36.8849660 ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	3366158	136.3330030 ppb		100
80)	sec-Butylbenzene	7.796	105	84521	2.5509435 ppb	#	74
82)	p-Isopropyltoluene	7.863	119	119615	4.5011843 ppb		96
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	777554	33.7541794 ppb		100
88)	n-Butylbenzene	8.228	91	112354	4.9914102 ppb	#	83
92)	Naphthalene	9.853	128	178614	10.8563801 ppb	#	85
93)	1,2,3-Trichlorobenzene	10.017	180	6450	1.1030435 ppb	#	13
94)	1-Methylnaphthalene	10.729	142	112931	12.8048303 ppb		99
95)	2-Methylnaphthalene	10.856	142	52209	6.7370794 ppb		94
97)	ETHANOL	2.534	45	18742	387.0548292 ppb	#	98
100)	Methyl Acetate	3.063	43	754241	215.3308521 ppb	#	54
101)	ACETONITRILE	3.246	41	56811	120.0282187 ppb	#	45
103)	tert-BUTYL ALCOHOL	3.063	59	861	1.3949965 ppb	#	1
104)	chloroprene	3.331	53	17762	1.9303410 ppb	#	25
106)	PROPIONITRILE	4.213	54	11614	18.8759543 ppb	#	1
107)	Ethyl Acetate	3.866	43	990369	241.8115521 ppb	#	44
108)	METHACRYLONITRILE	4.189	67	9232	4.7941541 ppb	#	1
109)	Cyclohexane	3.805	84	229513	23.0573565 ppb	#	49
110)	tert-butyl formate	4.067	59	2551	0.5573654 ppb	#	1
111)	ISOBUTANOL	4.195	43	15663	53.5073806 ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	20947	1.3253904 ppb	#	1
115)	N-BUTANOL	4.639	56	11945	84.0019093 ppb	#	1
116)	Methyl Cyclohexane	4.487	83	345928	28.5678047 ppb	#	40
117)	2-nitropropane	5.472	43	37534	26.4903353 ppb	#	66
118)	METHYL METHACRYLATE	4.834	41	368088	85.1554585 ppb	#	16
119)	1,4-DIOXANE	4.852	88	3073	69.0947190 ppb	#	1
120)	n-octane	5.193	85	147013	23.3841733 ppb		92
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	13235	37.9346903 ppb	#	41
123)	ETHYL METHACRYLATE	5.661	69	20201	2.9979066 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.224	53	13055	7.6150407 ppb	#	3
125)	Cyclohexanone	7.468	55	17850	98.3964237 ppb	#	73
126)	PENTACHLOROETHANE	7.711	117	114474	31.2253223 ppb	#	13
127)	Hexachloroethane	8.374	117	3349	0.7350191 ppb	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 46.D
Acq On : 2 May 2015 5:12 am
Operator : 621
Sample : STD GROMS 4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS18

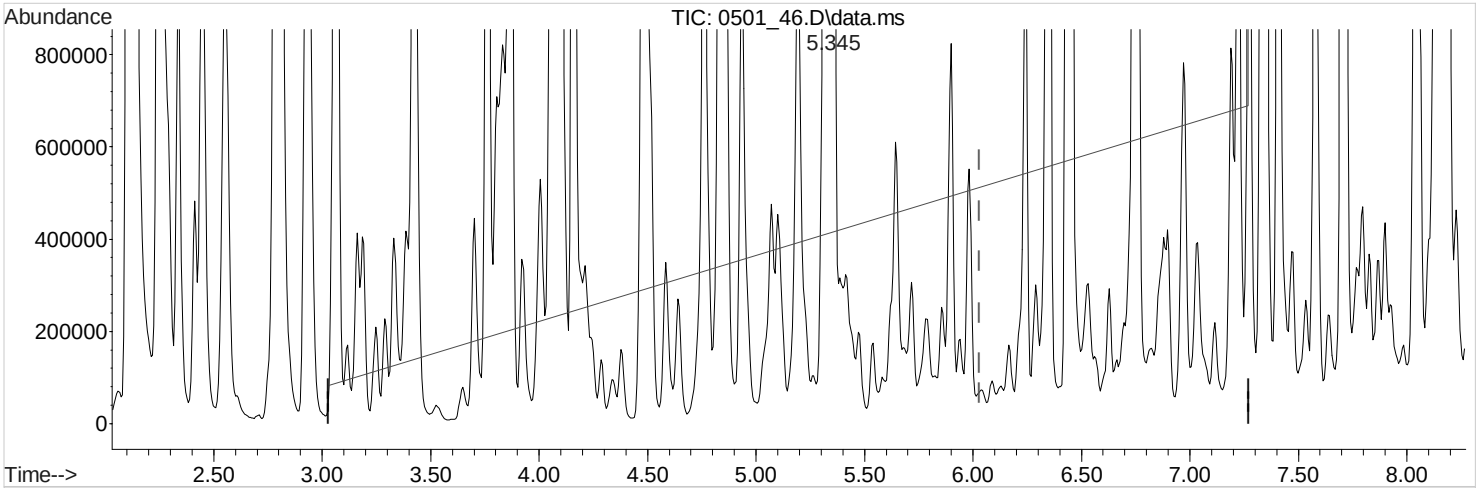
Quant Time: May 03 16:04:26 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

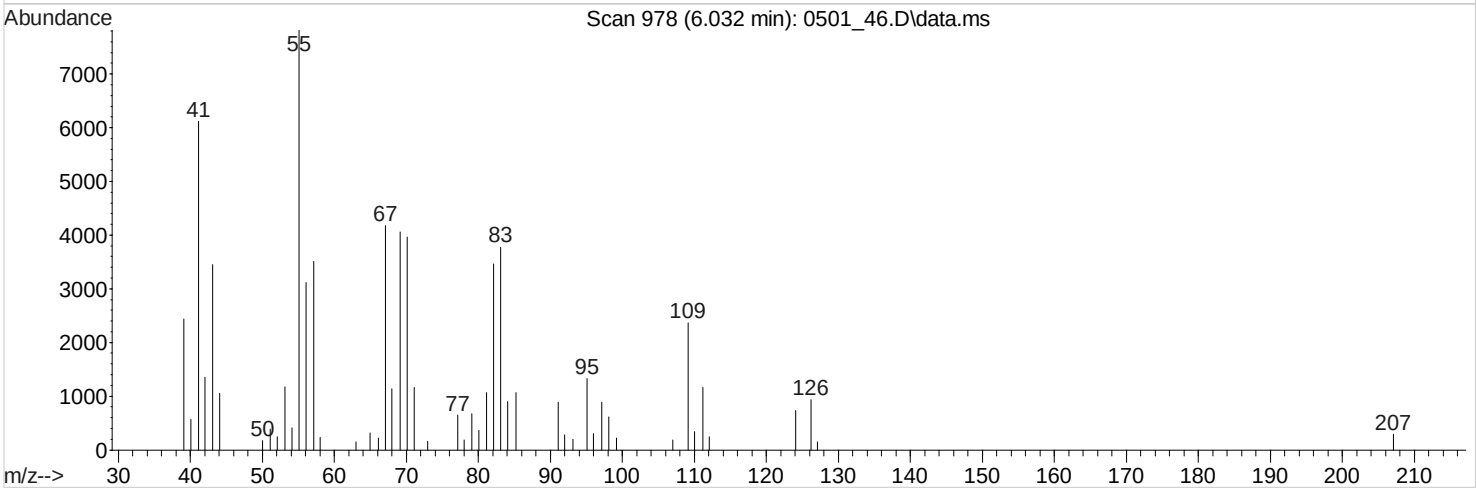


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 46.D
Acq On : 2 May 2015 5:12 am
Operator : 621
Sample : STD GROMS 4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_46.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

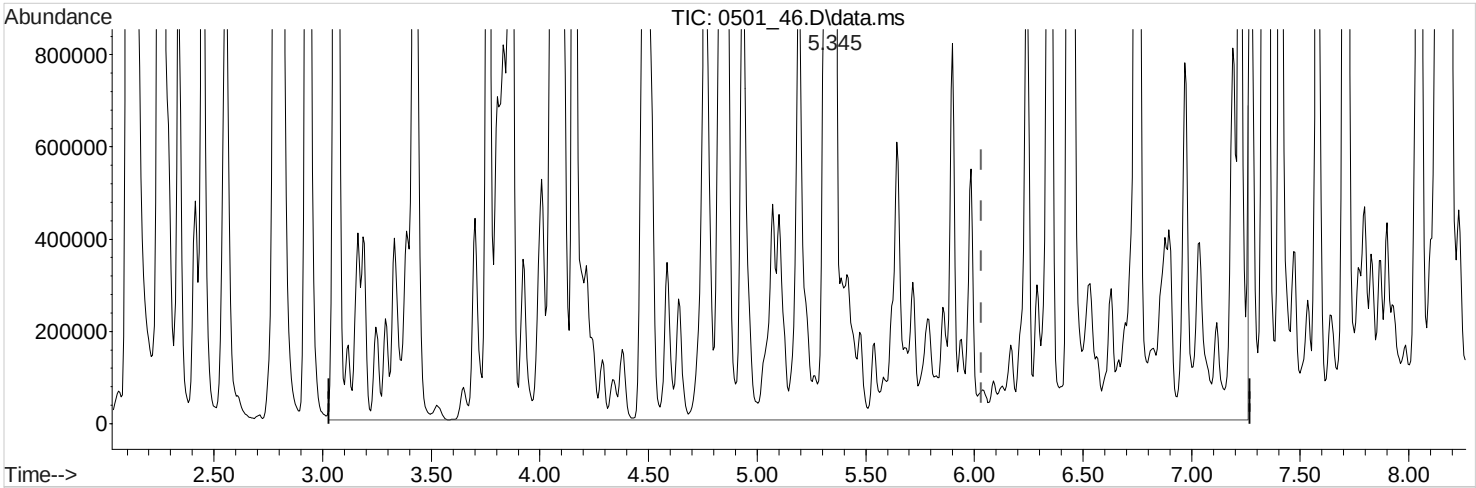
response 67791628

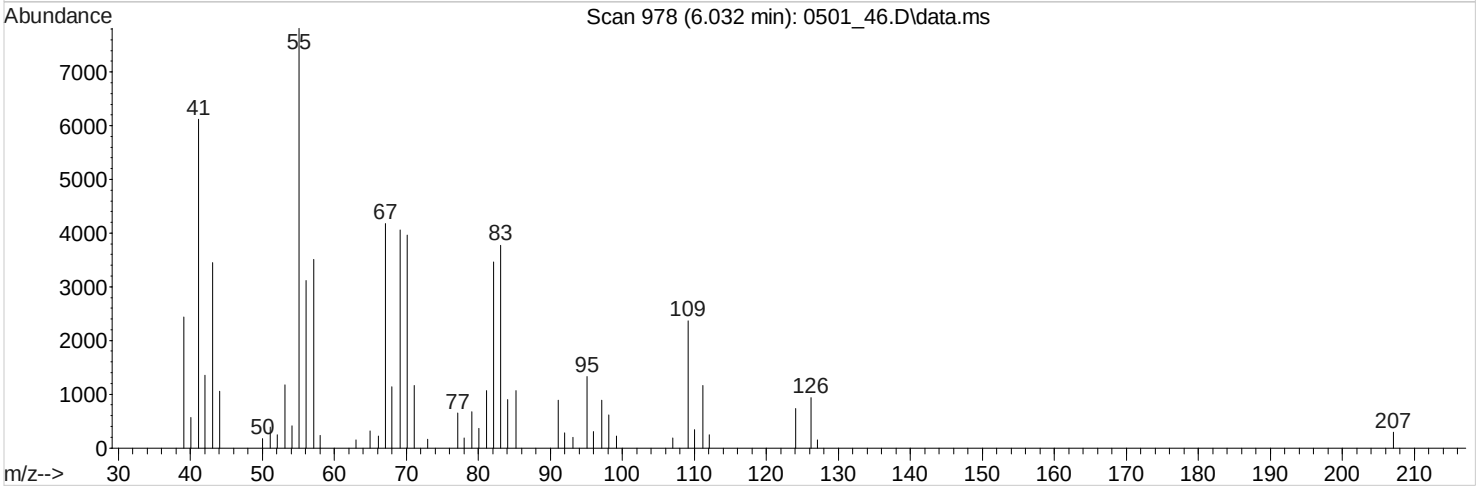
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.51#
0.00	0.00	0.24#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 46.D
Acq On : 2 May 2015 5:12 am
Operator : 621
Sample : STD GROMS 4 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_46.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 121531587

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.13#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 47.D
Acq On : 2 May 2015 5:32 am
Operator : 621
Sample : MSTD GROMS 5.0 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:57 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	335657	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	589627	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	92685	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	234544	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	335657	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	589627	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	92685	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	234544	40.0000000	ppb	# 0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	159734	39.0584684	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.65%			
46) a,a,a-Trifluorotoluene	4.852	146	312372	39.7049760	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.26%			
50) TOLUENE-D8	5.314	98	708323	40.0617171	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.15%			
68) 4-BROMOFLUOROBENZENE	7.188	95	261851	41.4962215	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.74%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	803	Below Cal	#	45
5) CHLOROMETHANE	1.804	50	13529	1.7873367	ppb #	71
11) DICHLOROFLUOROMETHANE	2.291	67	6215	0.5233106	ppb #	1
13) ACROLEIN	2.790	56	225255	326.5053965	ppb #	1
16) ACETONE	2.930	43	370013	197.0724594	ppb #	74
19) METHYLENE CHLORIDE	2.936	84	8198	1.2873106	ppb #	1
20) ACRYLONITRILE	3.428	53	60323	35.8079744	ppb #	43
21) n-Hexane	3.063	56	859682	132.6987370	ppb #	64
24) 1,1-DICHLOROETHANE	3.422	63	7370	0.6614874	ppb #	1
25) VINYL ACETATE	3.526	43	13261	1.3070214	ppb #	90
27) 2,2-Dichloropropane	3.763	77	2620	0.3514757	ppb #	57
29) 2-BUTANONE (MEK)	3.994	43	136392	52.2310279	ppb #	55
31) TETRAHYDROFURAN	3.946	42	1512	0.8775411	ppb #	1
32) CHLOROFORM	3.806	83	30672	2.8302419	ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	3277607	118.2540870	ppb	91
38) HEPTANE	4.098	43	1405689	108.3698102	ppb #	66
39) BENZENE	4.158	78	1559130	60.5972755	ppb	98
44) DIBROMOMETHANE	4.730	93	1354	0.4196971	ppb #	1
45) BROMODICHLOROMETHANE	4.864	83	13517	1.5755682	ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.101	63	1818	0.5272414	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.539	58	3214	1.5041018	ppb #	1
51) TOLUENE	5.345	91	12320347	423.5742814	ppb	94
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	1948	0.9169385	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.704	97	21581	4.4366548	ppb #	1
57) 2-HEXANONE	6.093	58	1279	0.6426715	ppb #	1
58) CHLORODIBROMOMETHANE	5.898	129	1673	0.3312456	ppb #	19
62) ETHYLBENZENE	6.349	106	978815	96.2456669	ppb	100
63) M&P-XYLENE	6.440	106	4479899	357.8981698	ppb	98
64) O-XYLENE	6.750	106	1739203	148.3994385	ppb	98
65) STYRENE	6.750	104	45849	2.5390445	ppb #	33
67) Isopropylbenzene	6.969	105	279021	8.7910531	ppb	99
69) Bromobenzene	7.273	77	38625	2.9343330	ppb #	28
70) 1,1,2,2-TETRACHLOROETHANE	7.292	83	23848	3.6543208	ppb #	46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 47.D
Acq On : 2 May 2015 5:32 am
Operator : 621
Sample : MSTD GROMS 5.0 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:57 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

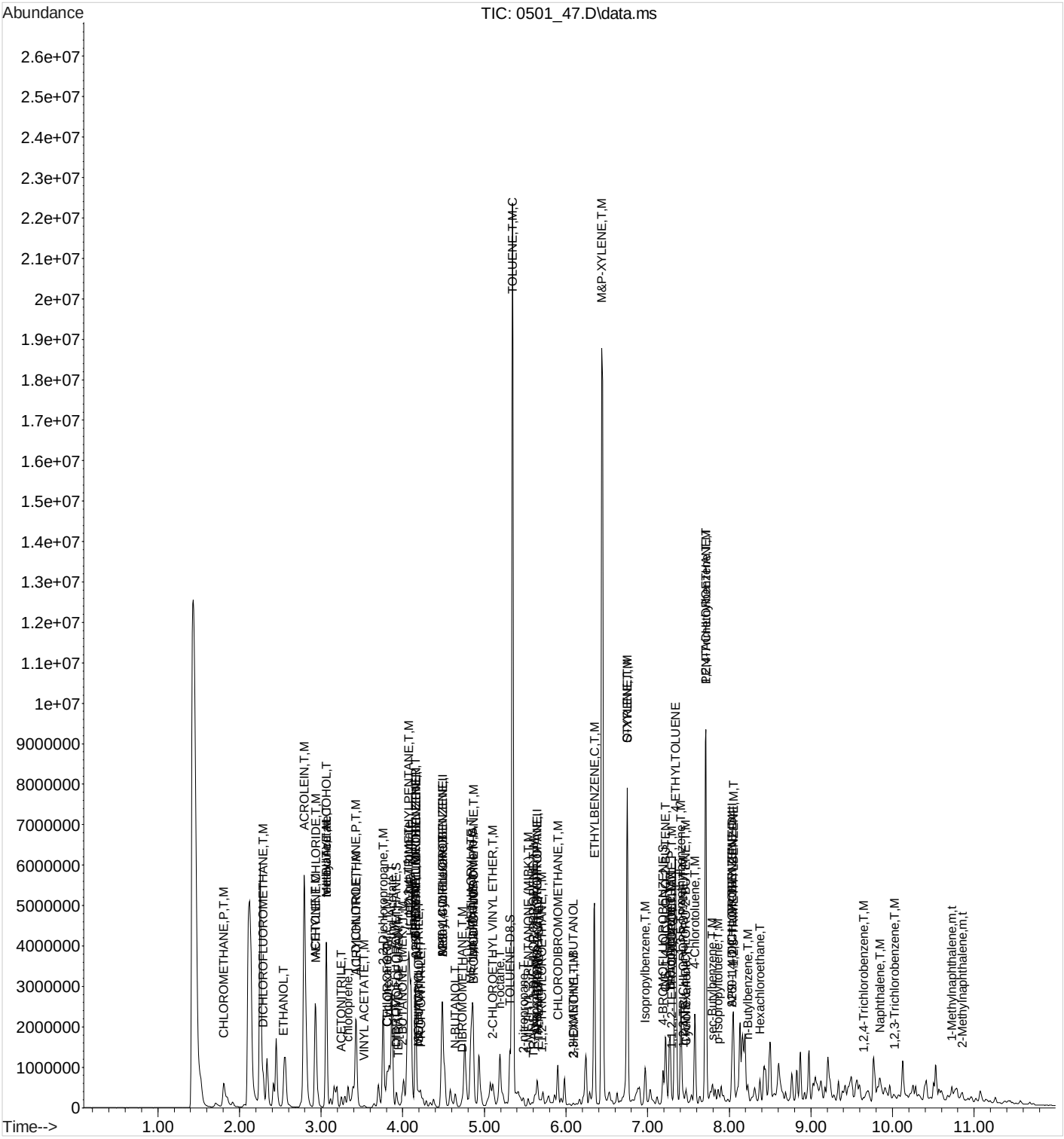
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	1,2,3-TRICHLOROPROPANE	7.438	110	2248	1.3108998	ppb	#	24
72)	TRANS-1,4-DICHLORO-2-B...	7.468	53	2965	1.9611938	ppb	#	22
73)	n-Propylbenzene	7.273	91	1081170	29.0948112	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	4355242	146.4618034	ppb		98
76)	4-Chlorotoluene	7.577	91	128899	6.1975442	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.407	105	1194658	45.6295190	ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	4356797	169.2452019	ppb		100
80)	sec-Butylbenzene	7.790	105	108665	3.1456358	ppb	#	73
82)	p-Isopropyltoluene	7.863	119	157631	5.6893849	ppb	#	93
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	1004284	40.8263586	ppb		100
88)	n-Butylbenzene	8.228	91	145787	6.0651371	ppb	#	83
90)	1,2,4-Trichlorobenzene	9.646	180	2847	0.4402590	ppb	#	27
92)	Naphthalene	9.847	128	221962	12.6338374	ppb	#	84
93)	1,2,3-Trichlorobenzene	10.023	180	6435	1.0305489	ppb	#	13
94)	1-Methylnaphthalene	10.729	142	140317	14.8990320	ppb		99
95)	2-Methylnaphthalene	10.857	142	62330	7.5320037	ppb	#	96
97)	ETHANOL	2.540	45	21089	407.9377038	ppb	#	97
99)	2-PROPANOL	2.930	45	656	Below Cal		#	1
100)	Methyl Acetate	3.063	43	974572	260.6101675	ppb	#	54
101)	ACETONITRILE	3.246	41	76424	151.2383725	ppb	#	47
103)	tert-BUTYL ALCOHOL	3.063	59	1055	1.6010457	ppb	#	1
104)	chloroprene	3.331	53	23517	2.3938967	ppb	#	25
106)	PROPIONITRILE	4.219	54	13566	20.6519095	ppb	#	1
107)	Ethyl Acetate	3.866	43	1289022	294.7960362	ppb	#	43
108)	METHACRYLONITRILE	4.195	67	9140	4.4457362	ppb	#	1
109)	Cyclohexane	3.806	84	288923	27.1872727	ppb	#	1
110)	tert-butyl formate	4.067	59	3451	0.7062457	ppb	#	1
111)	ISOBUTANOL	4.195	43	4577	14.6453906	ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	26107	1.5472492	ppb	#	1
115)	N-BUTANOL	4.639	56	16037	104.9835923	ppb	#	1
116)	Methyl Cyclohexane	4.487	83	449887	34.7194709	ppb	#	42
117)	2-nitropropane	5.479	43	47395	31.1379796	ppb	#	66
118)	METHYL METHACRYLATE	4.834	41	470674	101.3622722	ppb	#	16
119)	1,4-DIOXANE	4.858	88	3802	79.5773923	ppb	#	26
120)	n-octane	5.193	85	191803	28.3999106	ppb		91
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	17849	46.1335997	ppb	#	44
123)	ETHYL METHACRYLATE	5.661	69	27734	3.9476649	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.219	53	16086	8.9996569	ppb	#	3
125)	Cyclohexanone	7.474	55	22237	117.5708955	ppb	#	66
126)	PENTACHLOROETHANE	7.711	117	147308	38.5397542	ppb	#	13
127)	Hexachloroethane	8.374	117	4003	0.8426585	ppb	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 47.D
Acq On : 2 May 2015 5:32 am
Operator : 621
Sample : MSTD GROMS 5.0 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS18

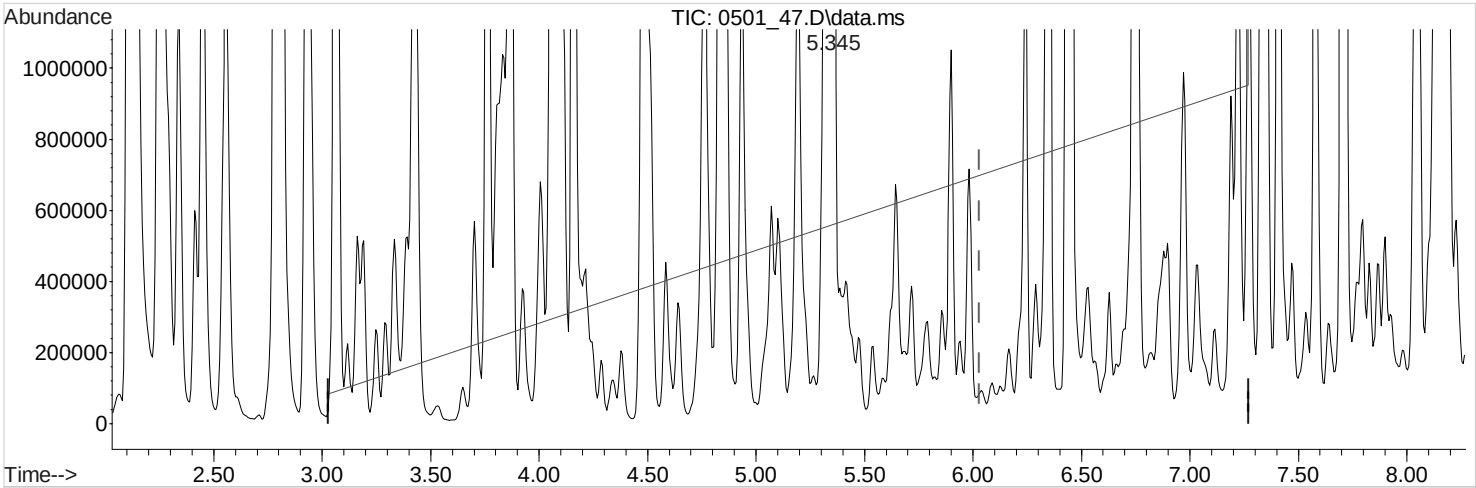
Quant Time: May 03 16:04:57 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

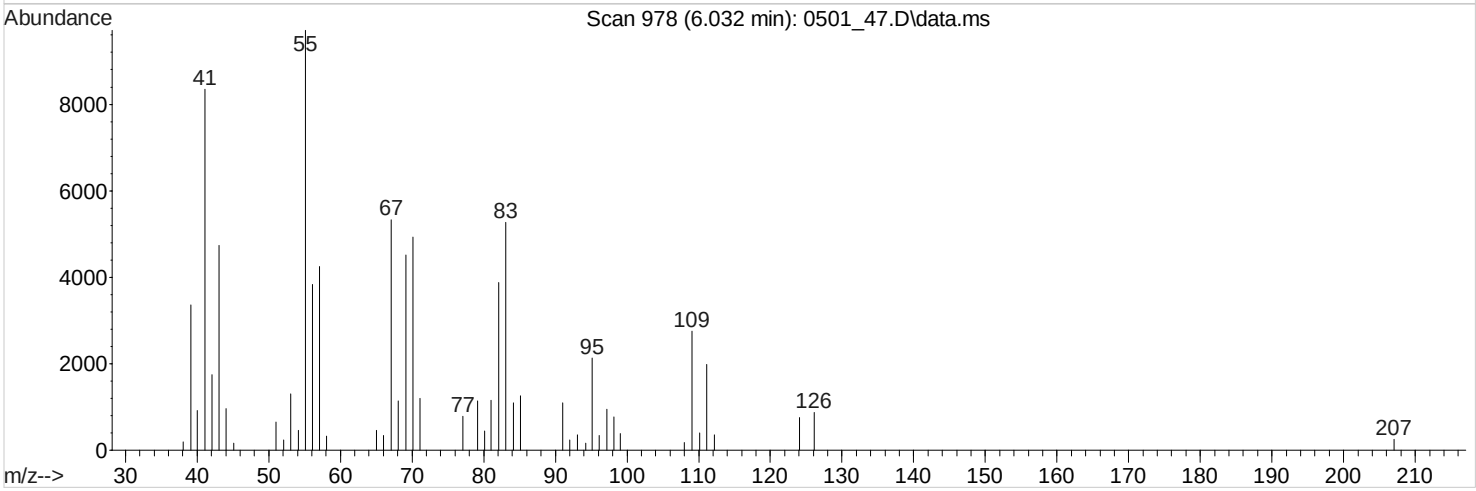


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 47.D
Acq On : 2 May 2015 5:32 am
Operator : 621
Sample : MSTD GROMS 5.0 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:48 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_47.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

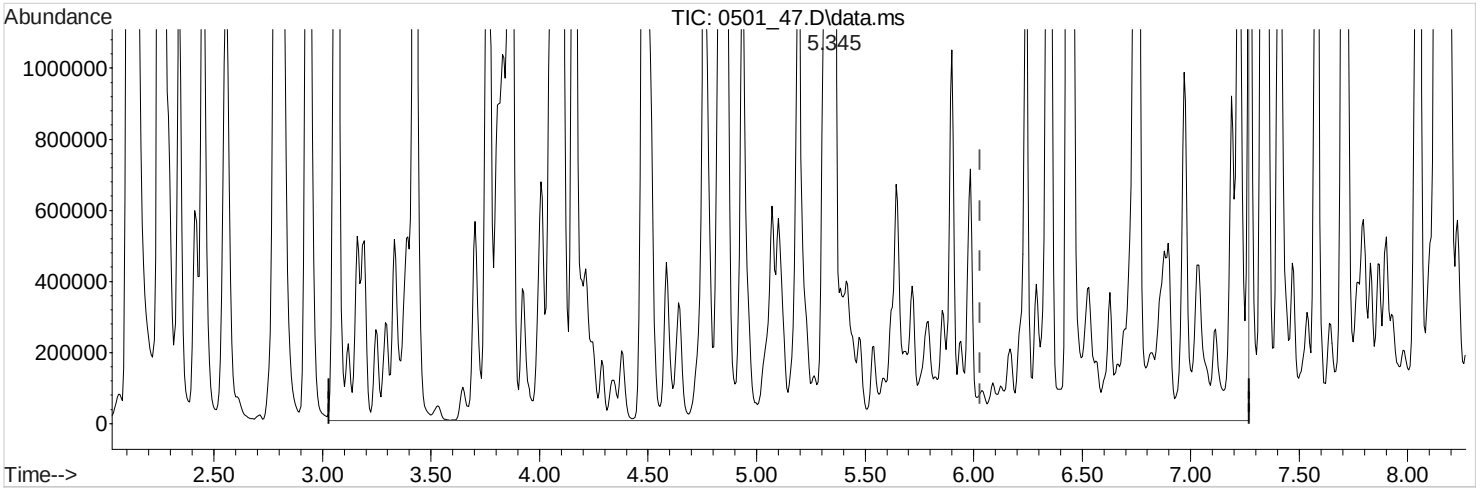
response 87949235

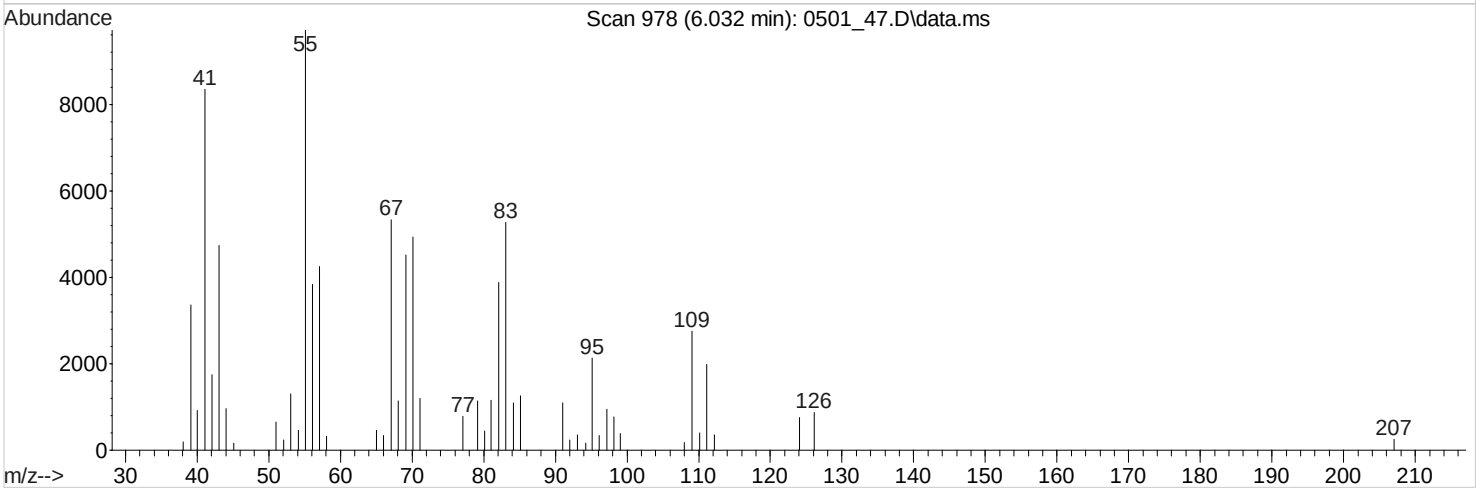
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.42#
0.00	0.00	0.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 47.D
Acq On : 2 May 2015 5:32 am
Operator : 621
Sample : MSTD GROMS 5.0 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:04:48 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_47.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 156362127

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.11#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 48.D
Acq On : 2 May 2015 5:52 am
Operator : 621
Sample : STD GROMS 7 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:23 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	322054	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	567774	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	90675	40.0000000	ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	225295	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	322054	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	567774	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	90675	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	225295	40.0000000	ppb	# 0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	150176	38.2723726	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.68%			
46) a,a,a-Trifluorotoluene	4.852	146	295880	39.0562292	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 97.64%			
50) TOLUENE-D8	5.314	98	670013	39.3534948	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.38%			
68) 4-BROMOFLUOROBENZENE	7.188	95	256760	41.5914033	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.98%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	2542	1.7981901	ppb #	55
5) CHLOROMETHANE	1.804	50	18105	2.4929078	ppb #	69
11) DICHLOROFLUOROMETHANE	2.291	67	9038	0.7931544	ppb #	1
13) ACROLEIN	2.790	56	315364	476.4255570	ppb #	1
16) ACETONE	2.930	43	511867	284.1404711	ppb #	74
19) METHYLENE CHLORIDE	2.936	84	9272	1.5174552	ppb #	1
20) ACRYLONITRILE	3.422	53	82054	50.7649066	ppb #	42
21) n-Hexane	3.063	56	1190687	191.5550381	ppb #	64
24) 1,1-DICHLOROETHANE	3.422	63	11533	1.0788557	ppb #	1
25) VINYL ACETATE	3.526	43	19004	1.9521737	ppb #	87
27) 2,2-Dichloropropane	3.763	77	3034	0.4242058	ppb #	57
29) 2-BUTANONE (MEK)	3.994	43	188295	75.1528533	ppb #	56
31) TETRAHYDROFURAN	3.945	42	3384	2.0469773	ppb #	1
32) CHLOROFORM	3.806	83	43951	4.2268539	ppb #	26
34) 1,1,1-TRICHLOROETHANE	4.006	97	2963	0.3280995	ppb #	57
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	4568950	171.8077291	ppb	91
38) HEPTANE	4.098	43	1986453	159.6115707	ppb #	65
39) BENZENE	4.158	78	2188176	88.6380170	ppb	98
43) 1,2-DICHLOROPROPANE	4.779	62	1457	0.3238226	ppb #	1
44) DIBROMOMETHANE	4.730	93	1705	0.5488372	ppb #	1
45) BROMODICHLOROMETHANE	4.870	83	17151	2.0760996	ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.107	63	1142	0.3439407	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.533	58	4743	2.3050818	ppb #	1
51) TOLUENE	5.339	91	14694772	524.6520285	ppb #	83
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	2676	1.3080949	ppb #	42
54) 1,1,2-TRICHLOROETHANE	5.704	97	28789	6.0496820	ppb #	1
57) 2-HEXANONE	6.087	58	1436	0.7375558	ppb #	1
62) ETHYLBENZENE	6.348	106	1364483	137.1420349	ppb	99
63) M&P-XYLENE	6.446	106	6215229	507.5400049	ppb	93
64) O-XYLENE	6.750	106	2421672	211.2122934	ppb	98
65) STYRENE	6.750	104	67424	3.8166018	ppb #	1
67) Isopropylbenzene	6.969	105	381299	12.2798078	ppb	99
69) Bromobenzene	7.273	77	53247	4.1348326	ppb #	28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 48.D
Acq On : 2 May 2015 5:52 am
Operator : 621
Sample : STD GROMS 7 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:23 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

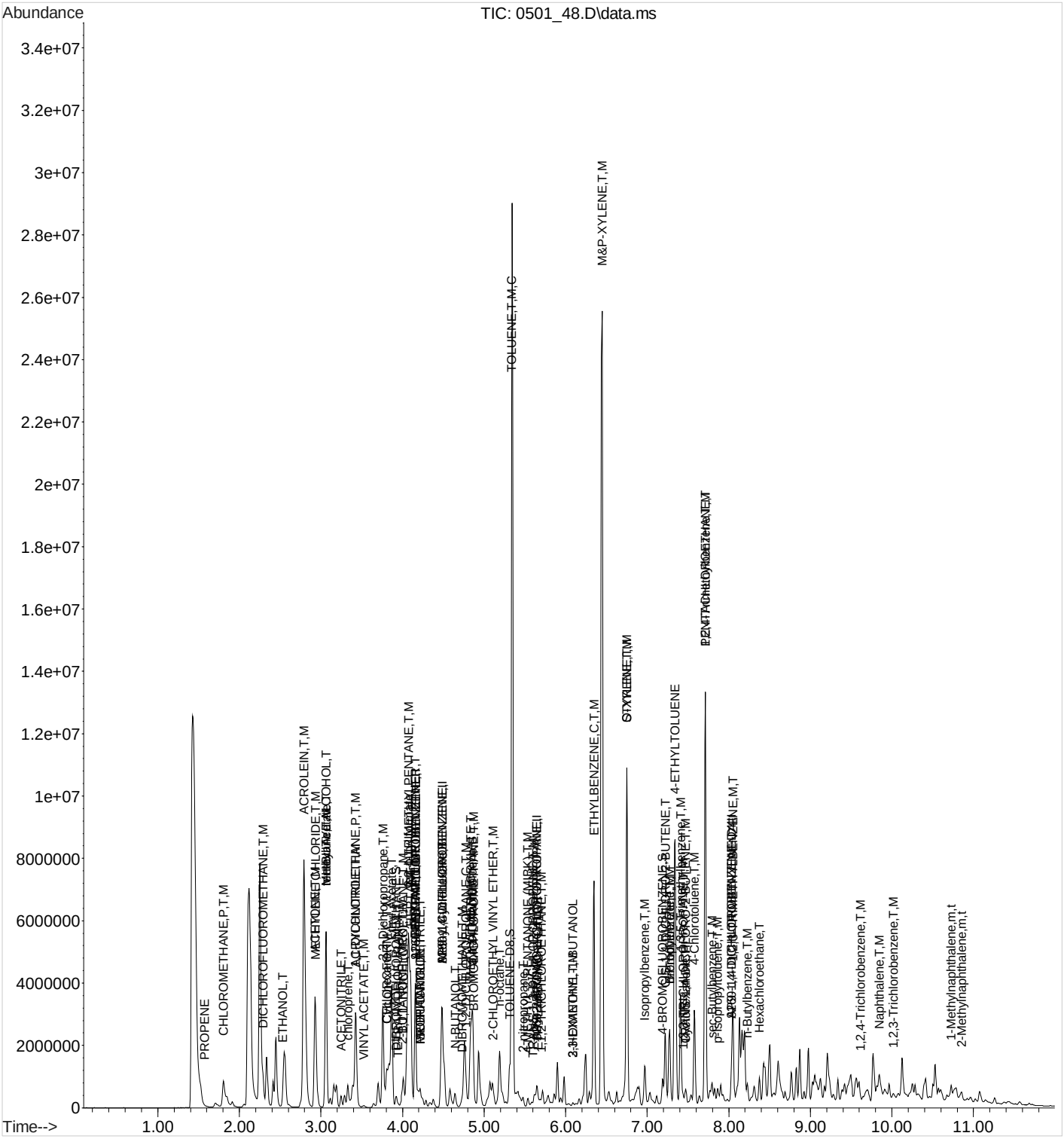
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	1,2,3-TRICHLOROPROPANE	7.444	110	3177	1.8937048	ppb	#	24
72)	TRANS-1,4-DICHLORO-2-B...	7.474	53	4353	2.9431092	ppb	#	22
73)	n-Propylbenzene	7.273	91	1490897	41.0101245	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	6028656	207.2308838	ppb		98
76)	4-Chlorotoluene	7.577	91	174936	8.5974799	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.413	105	1640788	64.0584840	ppb		99
79)	1,2,4-Trimethylbenzene	7.711	105	6019425	239.0154297	ppb		100
80)	sec-Butylbenzene	7.796	105	146345	4.3303054	ppb	#	72
82)	p-Isopropyltoluene	7.863	119	214561	7.9158282	ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	1395524	59.0601010	ppb		100
88)	n-Butylbenzene	8.228	91	197362	8.5478745	ppb	#	83
90)	1,2,4-Trichlorobenzene	9.615	180	1958	0.3152145	ppb	#	12
92)	Naphthalene	9.847	128	319053	18.9056781	ppb	#	84
93)	1,2,3-Trichlorobenzene	10.017	180	8731	1.4556495	ppb	#	13
94)	1-Methylnaphthalene	10.729	142	195625	21.6244411	ppb		100
95)	2-Methylnaphthalene	10.856	142	88160	11.0906693	ppb	#	96
97)	ETHANOL	2.534	45	32717	659.5965042	ppb	#	94
99)	2-PROPANOL	2.923	45	675	Below Cal		#	1
100)	Methyl Acetate	3.063	43	1353019	377.0928796	ppb	#	54
101)	ACETONITRILE	3.246	41	104273	215.0656793	ppb	#	47
103)	tert-BUTYL ALCOHOL	3.063	59	1484	2.3472113	ppb	#	1
104)	chloroprene	3.331	53	31832	3.3771816	ppb	#	25
106)	PROPIONITRILE	4.213	54	19341	30.6869931	ppb	#	1
107)	Ethyl Acetate	3.866	43	1787874	426.1526858	ppb	#	43
108)	METHACRYLONITRILE	4.213	67	26106	13.2344177	ppb	#	1
109)	Cyclohexane	3.806	84	403104	39.5337168	ppb	#	1
110)	tert-butyl formate	4.073	59	4607	0.9826438	ppb	#	1
111)	ISOBUTANOL	4.213	43	27490	91.6772964	ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	35360	2.1841505	ppb	#	1
115)	N-BUTANOL	4.645	56	22861	155.4158775	ppb	#	1
116)	Methyl Cyclohexane	4.487	83	615573	49.6029399	ppb	#	42
117)	2-nitropropane	5.479	43	68076	46.4465855	ppb	#	68
118)	METHYL METHACRYLATE	4.834	41	638084	142.7039008	ppb	#	17
119)	1,4-DIOXANE	4.852	88	3125	67.9249730	ppb	#	1
120)	n-octane	5.193	85	261937	40.2772943	ppb		89
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	25493	65.6078292	ppb	#	43
123)	ETHYL METHACRYLATE	5.661	69	46711	6.7962418	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.224	53	31345	17.9253668	ppb	#	3
125)	Cyclohexanone	7.474	55	30456	164.5956615	ppb	#	65
126)	PENTACHLOROETHANE	7.711	117	203671	54.4670299	ppb	#	13
127)	Hexachloroethane	8.374	117	6297	1.3549448	ppb	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 48.D
Acq On : 2 May 2015 5:52 am
Operator : 621
Sample : STD GROMS 7 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

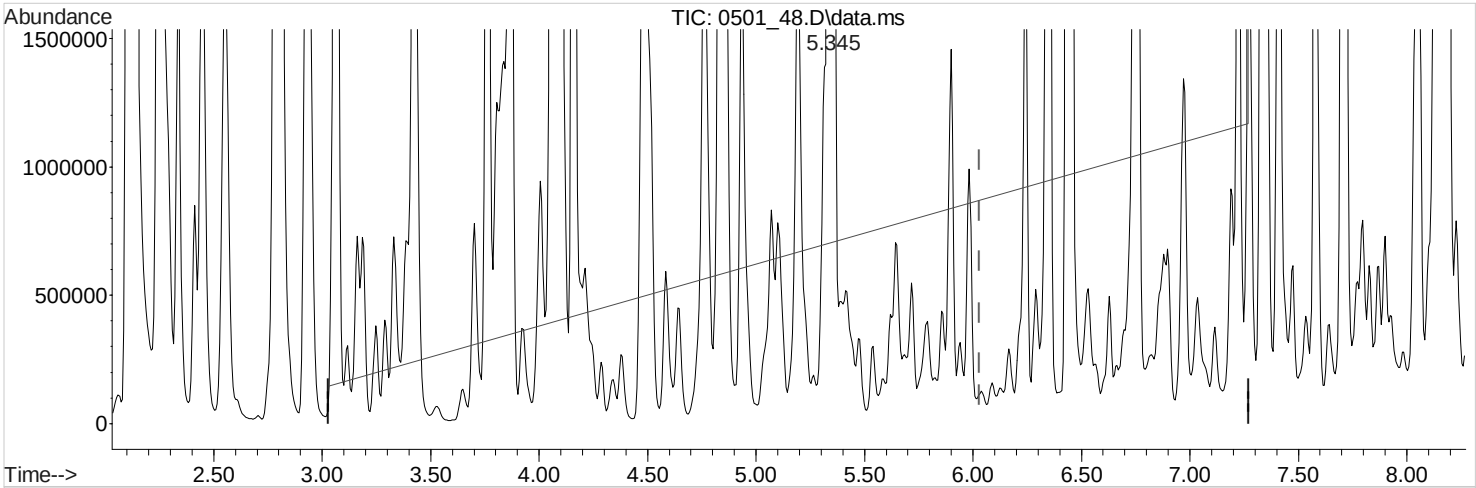
Quant Time: May 03 16:05:23 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

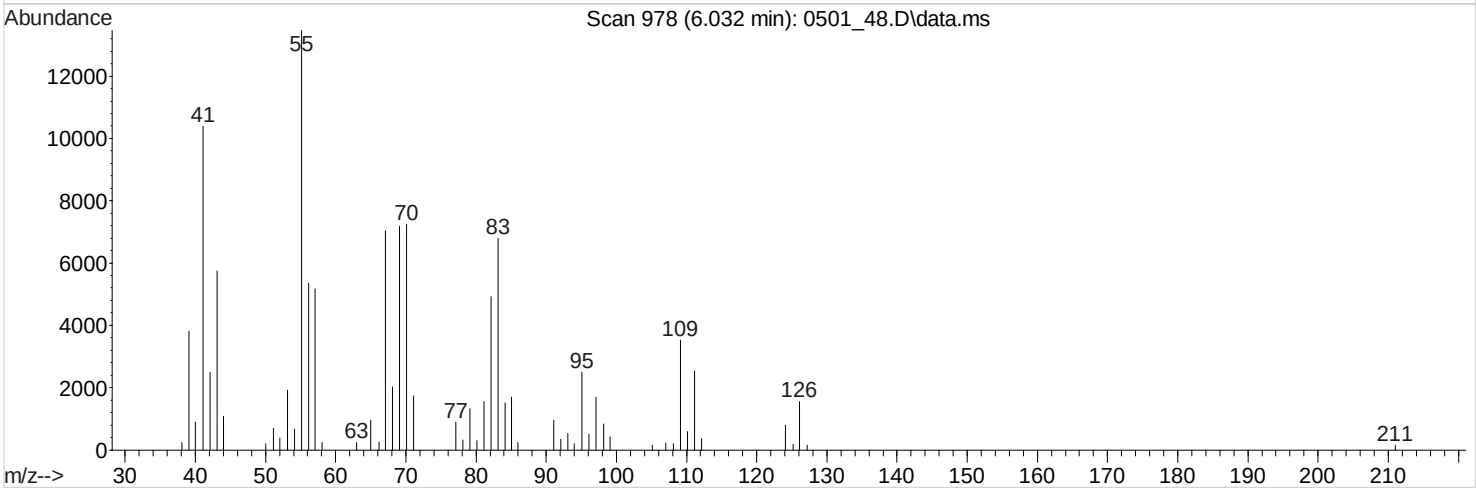


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 48.D
Acq On : 2 May 2015 5:52 am
Operator : 621
Sample : STD GROMS 7 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_48.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

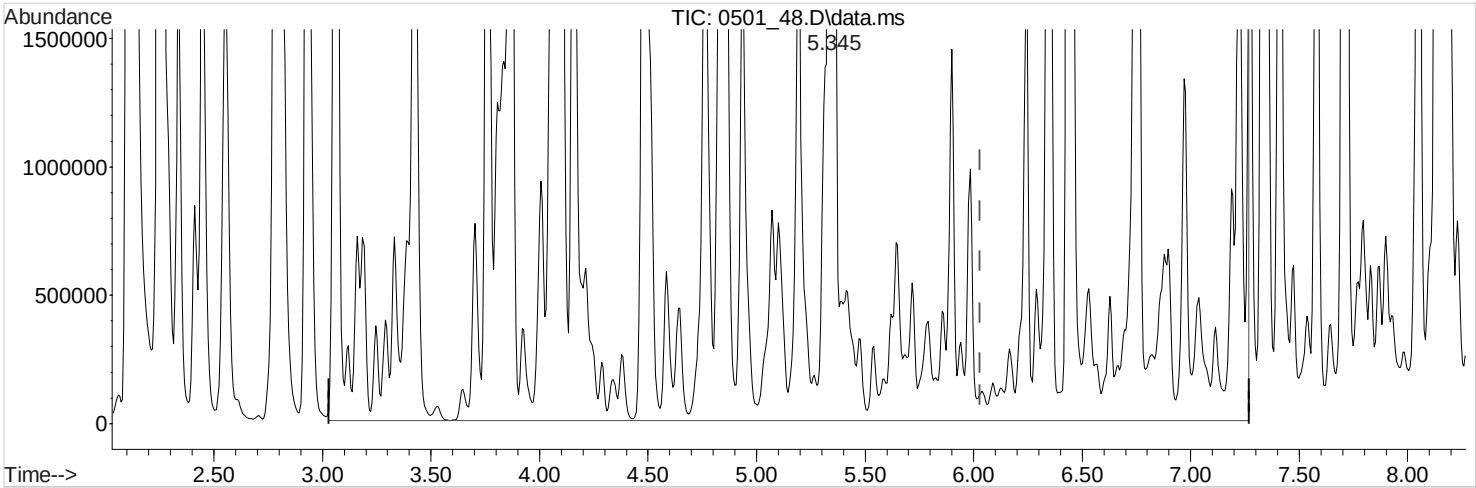
response 122501530

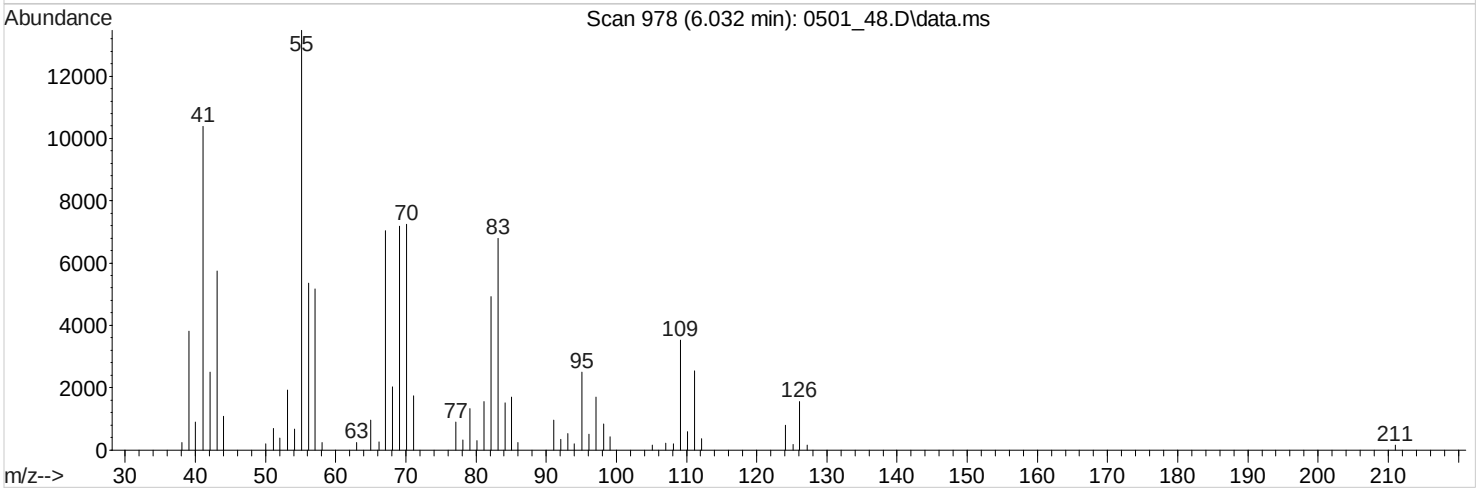
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 48.D
Acq On : 2 May 2015 5:52 am
Operator : 621
Sample : STD GROMS 7 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_48.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 214704097

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.17#
0.00	0.00	0.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 49.D
Acq On : 2 May 2015 6:12 am
Operator : 621
Sample : STD GROMS 10 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:52 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	321535	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	574085	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	94345	40.0000000	ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	224227	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	321535	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	574085	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	94345	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	224227	40.0000000	ppb	# 0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	152351	38.8893430	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.22%			
46) a,a,a-Trifluorotoluene	4.852	146	301889	39.4113482	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 98.53%			
50) TOLUENE-D8	5.314	98	672681	39.0758595	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 97.69%			
68) 4-BROMOFLUOROBENZENE	7.188	95	249361	38.8215985	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.05%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	2543	1.8041314	ppb	# 83
5) CHLOROMETHANE	1.804	50	25312	3.4908773	ppb	# 72
11) DICHLOROFLUOROMETHANE	2.291	67	10945	0.9620587	ppb	# 1
13) ACROLEIN	2.790	56	442271	669.2245153	ppb	# 1
16) ACETONE	2.930	43	718066	399.2461822	ppb	# 74
19) METHYLENE CHLORIDE	2.936	84	7982	1.3084424	ppb	# 1
20) ACRYLONITRILE	3.422	53	115113	71.3326979	ppb	# 42
21) n-Hexane	3.063	56	1693278	272.8504512	ppb	# 64
23) METHYL TERT-BUTYL ETHER	3.082	73	4787	0.3154255	ppb	# 1
24) 1,1-DICHLOROETHANE	3.422	63	15899	1.4896743	ppb	# 1
25) VINYL ACETATE	3.526	43	24918	2.5638173	ppb	# 90
27) 2,2-Dichloropropane	3.757	77	4430	0.6203907	ppb	# 57
28) CIS-1,2-DICHLOROETHENE	3.666	96	2823	0.4322670	ppb	# 1
29) 2-BUTANONE (MEK)	4.000	43	265750	106.2381264	ppb	# 55
31) TETRAHYDROFURAN	3.945	42	3371	2.0424051	ppb	# 1
32) CHLOROFORM	3.806	83	60267	5.8053511	ppb	# 26
34) 1,1,1-TRICHLOROETHANE	4.012	97	3460	0.3837519	ppb	# 42
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	6287078	236.7966663	ppb	92
38) HEPTANE	4.098	43	2829400	227.7093535	ppb	# 66
39) BENZENE	4.158	78	3069245	124.5287939	ppb	98
40) 1,2-DICHLOROETHANE	4.207	62	2381	0.3556037	ppb	# 1
43) 1,2-DICHLOROPROPANE	4.785	62	4687	1.0302483	ppb	# 1
44) DIBROMOMETHANE	4.730	93	2620	0.8341031	ppb	# 1
45) BROMODICHLOROMETHANE	4.870	83	23061	2.7608079	ppb	# 1
47) 2-CHLOROETHYL VINYL ETHER	5.101	63	2122	0.6320656	ppb	# 1
49) 4-METHYL-2-PENTANONE (...	5.539	58	6018	2.8925755	ppb	# 1
51) TOLUENE	5.339	91	16675028	588.8089159	ppb	# 70
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	3490	1.6872439	ppb	# 1
54) 1,1,2-TRICHLOROETHANE	5.704	97	41955	8.4734129	ppb	# 1
57) 2-HEXANONE	6.087	58	2116	1.0445392	ppb	# 1
58) CHLORODIBROMOMETHANE	5.898	129	2179	0.4238400	ppb	# 19
62) ETHYLBENZENE	6.348	106	1947288	188.1054259	ppb	98
63) M&P-XYLENE	6.446	106	8671553	680.5792486	ppb	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 49.D
Acq On : 2 May 2015 6:12 am
Operator : 621
Sample : STD GROMS 10 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:52 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

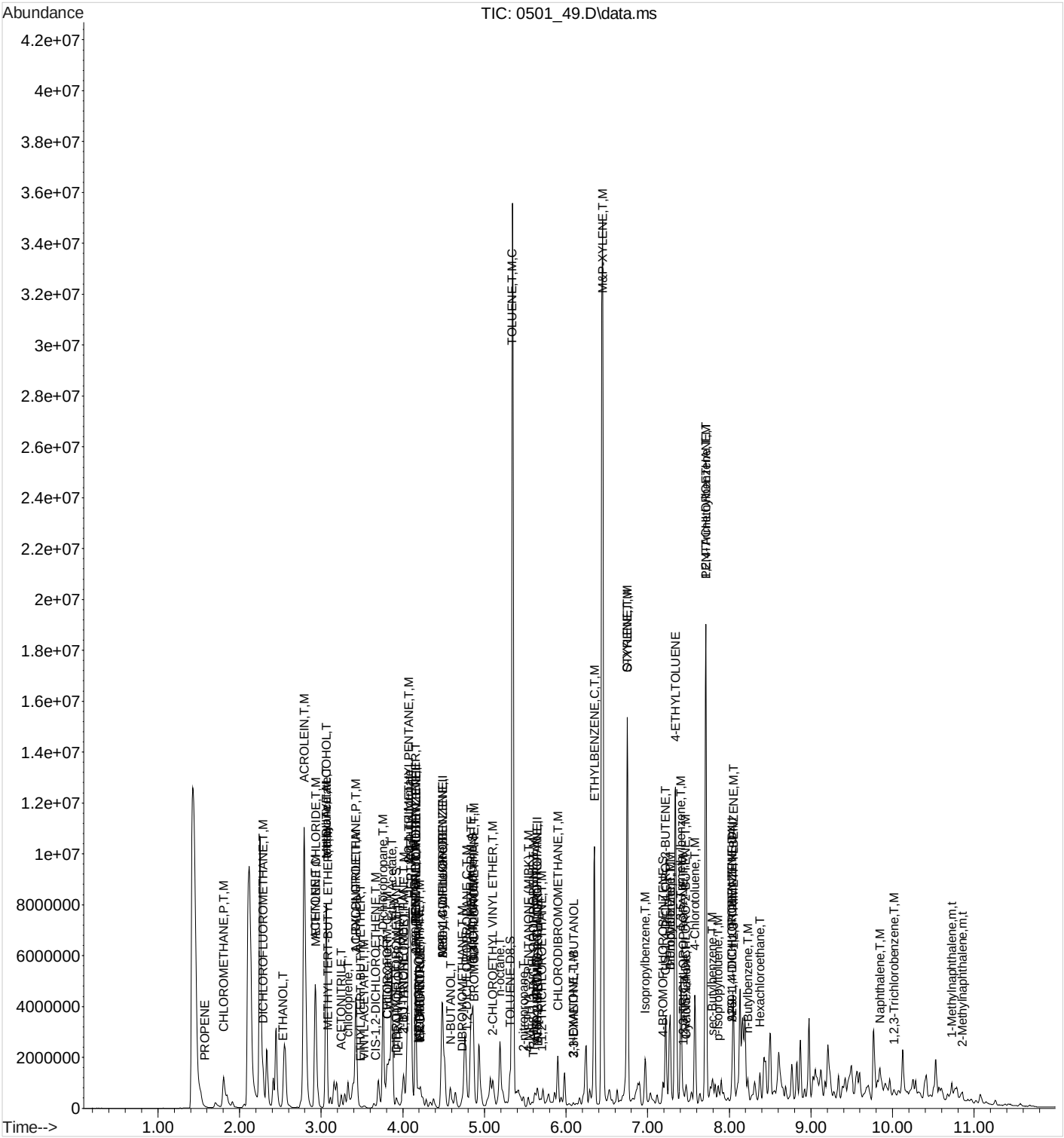
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	O-XYLENE	6.750	106	3419809	286.6648196	ppb		99
65)	STYRENE	6.750	104	97808	5.3211487	ppb	#	1
67)	Isopropylbenzene	6.969	105	541425	16.7584127	ppb		99
69)	Bromobenzene	7.273	77	77180	5.7601824	ppb	#	28
71)	1,2,3-TRICHLOROPROPANE	7.437	110	4288	2.4565099	ppb	#	24
72)	TRANS-1,4-DICHLORO-2-B...	7.468	53	5491	3.5681067	ppb	#	22
73)	n-Propylbenzene	7.273	91	2123919	56.1500403	ppb		99
74)	4-ETHYLTOLUENE	7.340	105	8517522	281.3947012	ppb		97
76)	4-Chlorotoluene	7.577	91	244201	11.5347474	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.407	105	2308499	86.6208721	ppb		98
79)	1,2,4-Trimethylbenzene	7.711	105	8413372	321.0773704	ppb		99
80)	sec-Butylbenzene	7.790	105	204530	5.8165616	ppb	#	73
82)	p-Isopropyltoluene	7.863	119	301086	10.6759078	ppb		94
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	1940567	82.5180895	ppb		100
88)	n-Butylbenzene	8.228	91	284438	12.3778685	ppb	#	83
92)	Naphthalene	9.847	128	441591	26.2913742	ppb	#	84
93)	1,2,3-Trichlorobenzene	10.017	180	10545	1.7664569	ppb	#	13
94)	1-Methylnaphthalene	10.729	142	266537	29.6034065	ppb		99
95)	2-Methylnaphthalene	10.856	142	112713	14.2470133	ppb		95
97)	ETHANOL	2.534	45	44426	897.1034505	ppb	#	97
100)	Methyl Acetate	3.063	43	1921184	536.3074641	ppb	#	54
101)	ACETONITRILE	3.246	41	142639	294.6713892	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.063	59	2470	3.9130526	ppb	#	1
104)	chloroprene	3.331	53	44437	4.7221053	ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	3.483	59	6098	0.3455894	ppb	#	71
106)	PROPIONITRILE	4.213	54	27335	43.4405117	ppb	#	1
107)	Ethyl Acetate	3.866	43	2523852	602.5493868	ppb	#	43
108)	METHACRYLONITRILE	4.195	67	19118	9.7075001	ppb	#	1
109)	Cyclohexane	3.806	84	568740	55.8682099	ppb	#	48
110)	tert-butyl formate	4.073	59	6598	1.4095830	ppb	#	1
111)	ISOBUTANOL	4.207	43	38495	128.5854488	ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	48318	2.9893702	ppb	#	1
115)	N-BUTANOL	4.590	56	172055	1156.8225898	ppb	#	60
116)	Methyl Cyclohexane	4.487	83	861997	68.9416617	ppb	#	41
117)	2-nitropropane	5.479	43	95421	64.3877173	ppb	#	63
118)	METHYL METHACRYLATE	4.834	41	894569	197.8659824	ppb	#	17
119)	1,4-DIOXANE	4.858	88	3511	75.4761230	ppb	#	26
120)	n-octane	5.193	85	370442	56.3356047	ppb		91
121)	3,3-DIMETHYL-1-BUTANOL	6.093	57	35604	88.3976799	ppb	#	41
123)	ETHYL METHACRYLATE	5.655	69	49630	6.9400502	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.218	53	31391	17.2533568	ppb	#	3
125)	Cyclohexanone	7.474	55	45199	234.7702280	ppb	#	64
126)	PENTACHLOROETHANE	7.711	117	286229	73.5676370	ppb	#	13
127)	Hexachloroethane	8.374	117	8540	1.7660966	ppb	#	60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 49.D
Acq On : 2 May 2015 6:12 am
Operator : 621
Sample : STD GROMS 10 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:52 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 49.D
Acq On    :  2 May 2015   6:12 am
Operator  : 621
Sample    : STD GROMS 10 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 37   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:05:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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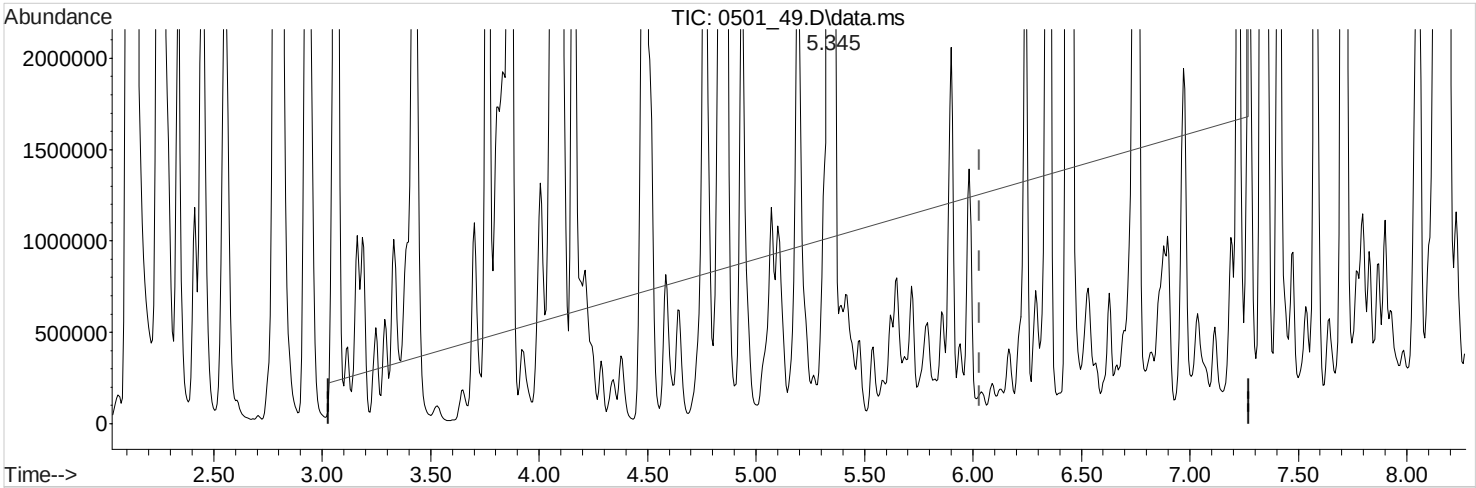
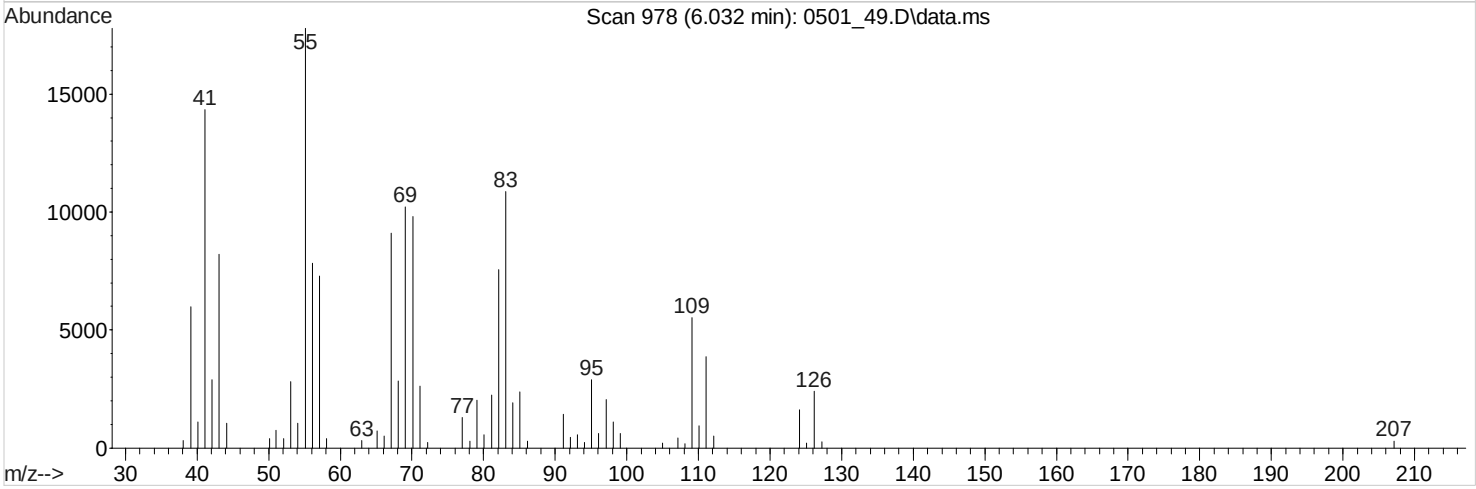




TIC: 0501_49.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

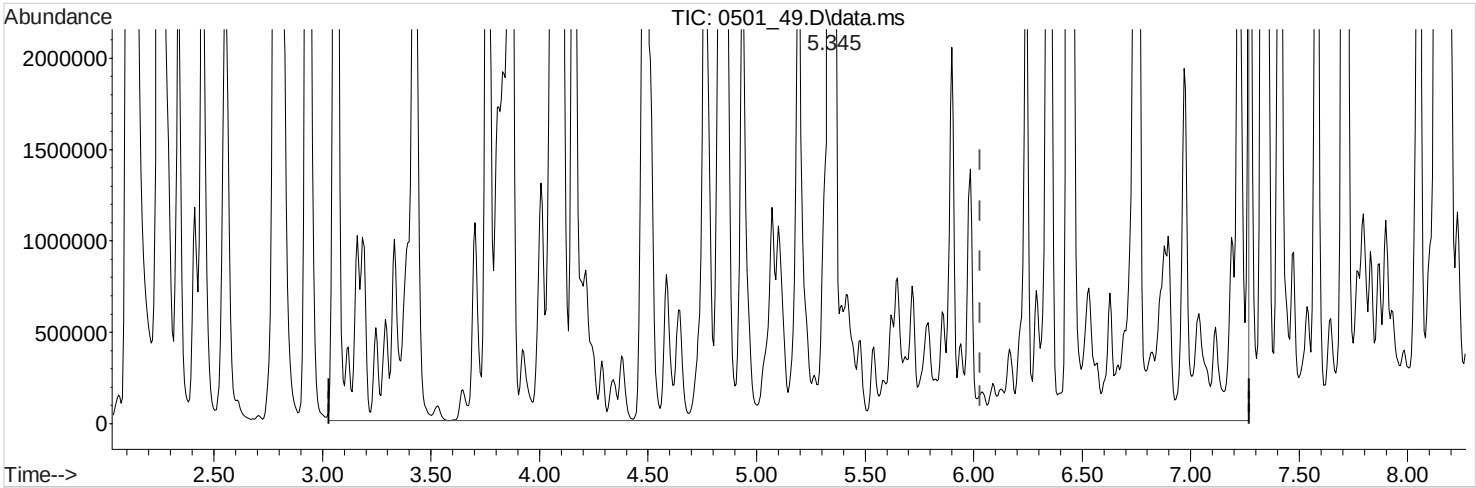
response 170534488

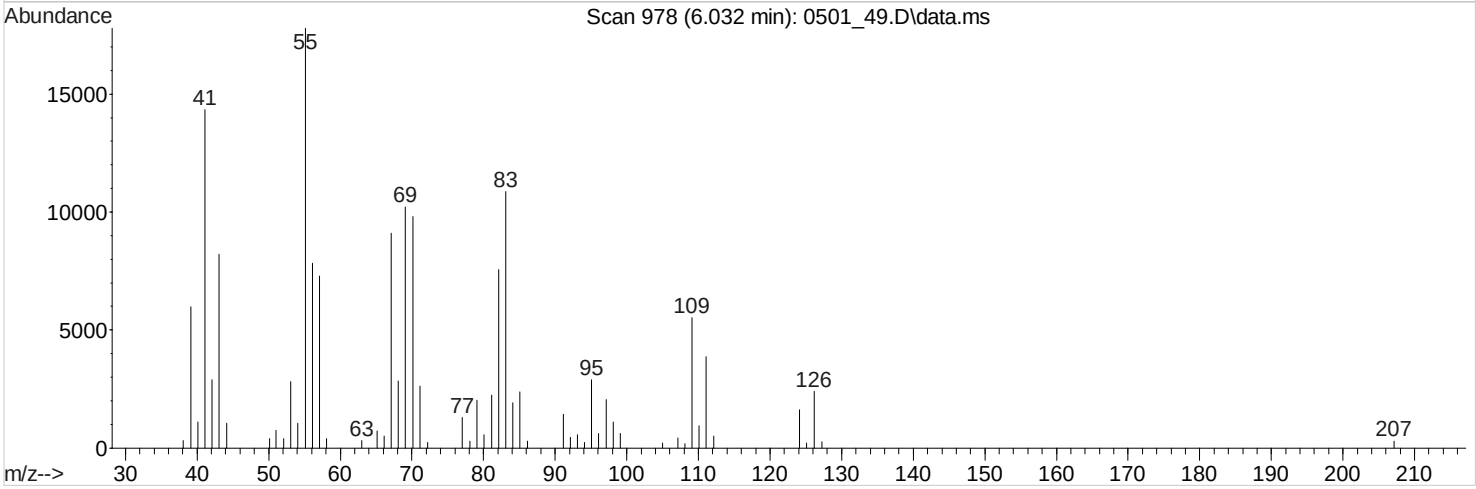
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.21#
0.00	0.00	0.12#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 49.D
Acq On : 2 May 2015 6:12 am
Operator : 621
Sample : STD GROMS 10 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:05:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration





TIC: 0501_49.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 299467477

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.07#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 50.D
Acq On : 2 May 2015 6:32 am
Operator : 621
Sample : STD GROMS 20 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:06:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.158	168	341162	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	649380	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	84750	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.034	152	247910	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.158	168	341162	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	649380	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	84750	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.034	152	247910	40.0000000	ppb	#	0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.921	111	159392	38.3459427	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.86%				
46) a,a,a-Trifluorotoluene	4.852	146	319716	36.8990907	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 92.25%				
50) TOLUENE-D8	5.314	98	729690	37.4727067	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 93.68%				
68) 4-BROMOFLUOROBENZENE	7.188	95	278684	48.2987732	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 120.75%				
Target Compounds							Qvalue
3) PROPENE	1.567	41	2939	2.0686676	ppb		87
5) CHLOROMETHANE	1.804	50	52306	6.7987213	ppb	#	70
11) DICHLOROFLUOROMETHANE	2.291	67	20415	1.6912305	ppb	#	1
13) ACROLEIN	2.790	56	894816	1276.1000387	ppb	#	1
16) ACETONE	2.930	43	1445518	757.4736234	ppb	#	74
17) IODOMETHANE	2.686	142	3004	0.3357857	ppb	#	92
19) METHYLENE CHLORIDE	2.936	84	9649	1.4907088	ppb	#	1
20) ACRYLONITRILE	3.422	53	228739	133.5894304	ppb	#	41
21) n-Hexane	3.063	56	3433496	521.4354560	ppb	#	64
23) METHYL TERT-BUTYL ETHER	3.082	73	9793	0.6081585	ppb	#	1
24) 1,1-DICHLOROETHANE	3.422	63	30799	2.7197296	ppb	#	1
25) VINYL ACETATE	3.526	43	51696	5.0130084	ppb	#	90
27) 2,2-Dichloropropane	3.763	77	8263	1.0906035	ppb	#	75
28) CIS-1,2-DICHLOROETHENE	3.672	96	5318	0.7674625	ppb	#	1
29) 2-BUTANONE (MEK)	4.000	43	538189	202.7727304	ppb	#	55
31) TETRAHYDROFURAN	3.939	42	7446	4.2518091	ppb	#	1
32) CHLOROFORM	3.806	83	118106	10.7223130	ppb	#	26
37) 2,2,4-TRIMETHYLPENTANE	4.073	57	12320175	437.3319581	ppb		91
38) HEPTANE	4.098	43	5701741	432.4755992	ppb	#	66
39) BENZENE	4.158	78	6215089	237.6584056	ppb		98
43) 1,2-DICHLOROPROPANE	4.785	62	8060	1.5662434	ppb	#	1
44) DIBROMOMETHANE	4.730	93	4883	1.3743029	ppb	#	1
45) BROMODICHLOROMETHANE	4.870	83	45931	4.8611748	ppb	#	1
47) 2-CHLOROETHYL VINYL ETHER	5.101	63	4384	1.1544220	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.539	58	11811	5.0187606	ppb	#	1
52) TRANS-1,3-DICHLOROPROPENE	5.600	110	7330	3.1328074	ppb	#	38
54) 1,1,2-TRICHLOROETHANE	5.704	97	82759	18.6066873	ppb	#	17
57) 2-HEXANONE	6.093	58	3177	1.7458442	ppb	#	1
58) CHLORODIBROMOMETHANE	5.898	129	4441	0.9616227	ppb	#	19
60) CHLOROBENZENE	6.330	112	6701	0.4361131	ppb	#	1
62) ETHYLBENZENE	6.349	106	4011831	431.4127213	ppb		89
63) M&P-XYLENE	6.446	106	14308561	1250.1351356	ppb	#	50
64) O-XYLENE	6.750	106	6975570	650.9257176	ppb		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 50.D
Acq On : 2 May 2015 6:32 am
Operator : 621
Sample : STD GROMS 20 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:06:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration

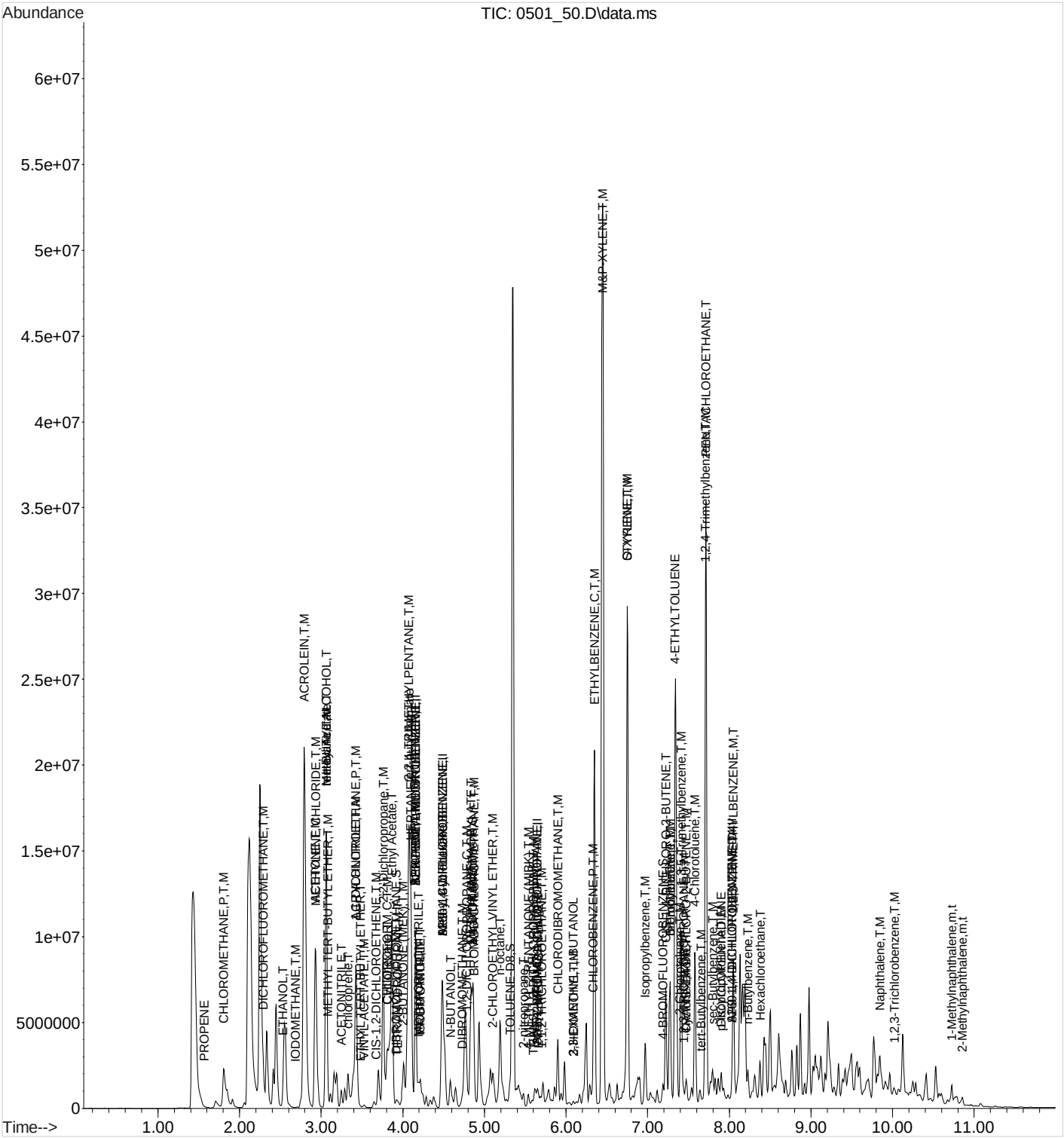
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
65)	STYRENE	6.750	104	211884	12.8324139 ppb	#	1
67)	Isopropylbenzene	6.969	105	1084772	37.3776701 ppb		99
69)	Bromobenzene	7.273	77	159799	13.2765337 ppb	#	28
71)	1,2,3-TRICHLOROPROPANE	7.444	110	7912	5.0457904 ppb	#	24
72)	TRANS-1,4-DICHLORO-2-B...	7.474	53	9491	6.8655849 ppb	#	22
73)	n-Propylbenzene	7.273	91	4329635	127.4214637 ppb		99
74)	4-ETHYLTOLUENE	7.334	105	16101072	592.1566695 ppb		91
75)	2-Chlorotoluene	7.395	126	3427	0.5676732 ppb	#	1
76)	4-Chlorotoluene	7.577	91	503531	26.4768337 ppb	#	50
77)	1,3,5-Trimethylbenzene	7.413	105	4709257	196.7090925 ppb		99
78)	tert-Butylbenzene	7.656	119	6829	0.3434483 ppb	#	83
79)	1,2,4-Trimethylbenzene	7.705	105	14095870	598.8398231 ppb	#	84
80)	sec-Butylbenzene	7.796	105	409822	12.9742949 ppb	#	73
82)	p-Isopropyltoluene	7.894	119	199556	7.8769525 ppb		98
83)	DICYCLOPENTADIENE	7.900	66	15147	0.5167451 ppb	#	92
86)	1,2,3-TRIMETHYLBENZENE	8.052	105	3985471	153.2830161 ppb		100
88)	n-Butylbenzene	8.228	91	577811	22.7424849 ppb	#	82
92)	Naphthalene	9.847	128	923831	49.7484399 ppb	#	83
93)	1,2,3-Trichlorobenzene	10.023	180	22890	3.4681361 ppb	#	13
94)	1-Methylnaphthalene	10.729	142	436765	43.8758834 ppb		100
95)	2-Methylnaphthalene	10.856	142	171289	19.5827264 ppb		97
97)	ETHANOL	2.534	45	89543	1704.1372035 ppb	#	99
99)	2-PROPANOL	2.857	45	500	Below Cal	#	56
100)	Methyl Acetate	3.063	43	3908427	1028.2873363 ppb	#	54
101)	ACETONITRILE	3.246	41	293586	571.6137002 ppb	#	46
103)	tert-BUTYL ALCOHOL	3.063	59	4727	7.0578421 ppb	#	1
104)	chloroprene	3.331	53	89797	8.9933266 ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	3.483	59	12123	0.6475163 ppb	#	73
106)	PROPIONITRILE	4.213	54	53907	80.7399768 ppb	#	1
107)	Ethyl Acetate	3.866	43	5092027	1145.7426102 ppb	#	44
108)	METHACRYLONITRILE	4.195	67	39324	18.8187268 ppb	#	1
109)	Cyclohexane	3.806	84	1129602	104.5788923 ppb	#	46
110)	tert-butyl formate	4.079	59	13149	2.6475165 ppb	#	1
111)	ISOBUTANOL	4.207	43	69888	220.0177483 ppb	#	69
113)	TERT-AMYL METHYL ETHER	4.158	73	100823	5.8789256 ppb	#	1
115)	N-BUTANOL	4.590	56	342213	2034.1044830 ppb	#	60
116)	Methyl Cyclohexane	4.487	83	1709995	121.3866707 ppb	#	42
117)	2-nitropropane	5.479	43	185530	110.6752471 ppb	#	62
118)	METHYL METHACRYLATE	4.834	41	1785101	349.0578228 ppb	#	17
119)	1,4-DIOXANE	4.852	88	3349	63.6460114 ppb	#	1
120)	n-octane	5.193	85	748136	100.5820735 ppb		90
121)	3,3-DIMETHYL-1-BUTANOL	6.087	57	66613	142.3952172 ppb	#	41
123)	ETHYL METHACRYLATE	5.661	69	96484	15.0194080 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.225	53	60941	37.2869801 ppb	#	3
125)	Cyclohexanone	7.474	55	85299	493.2161820 ppb	#	68
126)	PENTACHLOROETHANE	7.711	117	586036	167.6782183 ppb	#	13
127)	Hexachloroethane	8.380	117	17532	4.0361492 ppb	#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 50.D
Acq On : 2 May 2015 6:32 am
Operator : 621
Sample : STD GROMS 20 ppm 15D07746
Misc : water IS/SURR15C12445
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 03 16:06:19 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\050115\
Data File : 0501 50.D
Acq On    :  2 May 2015   6:32 am
Operator  : 621
Sample    : STD GROMS 20 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 38   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:06:12 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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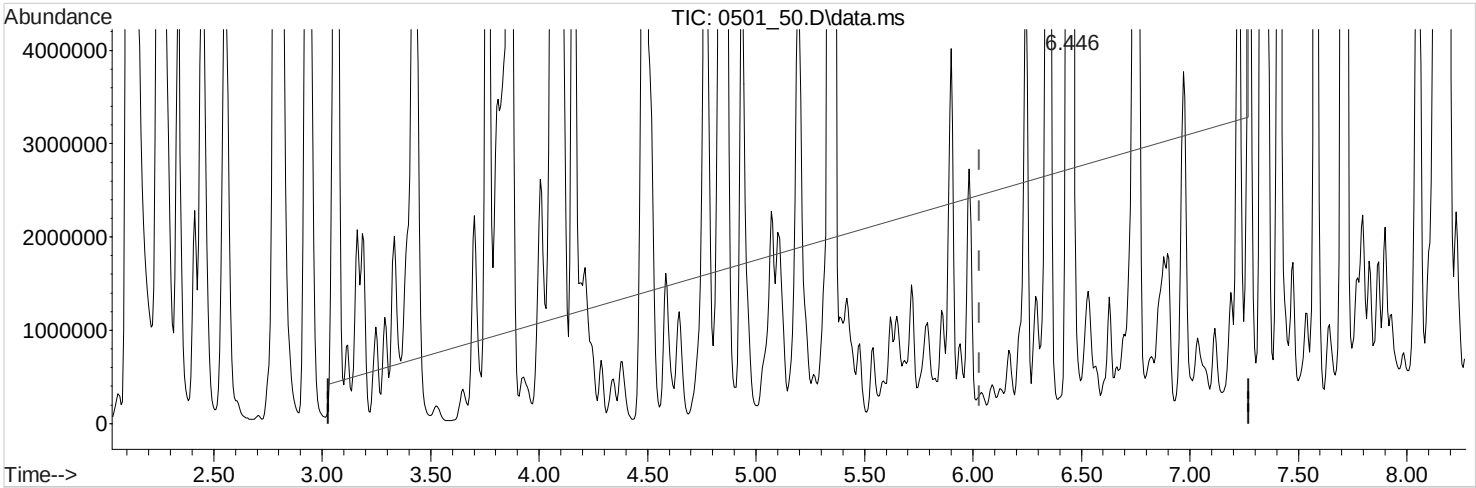

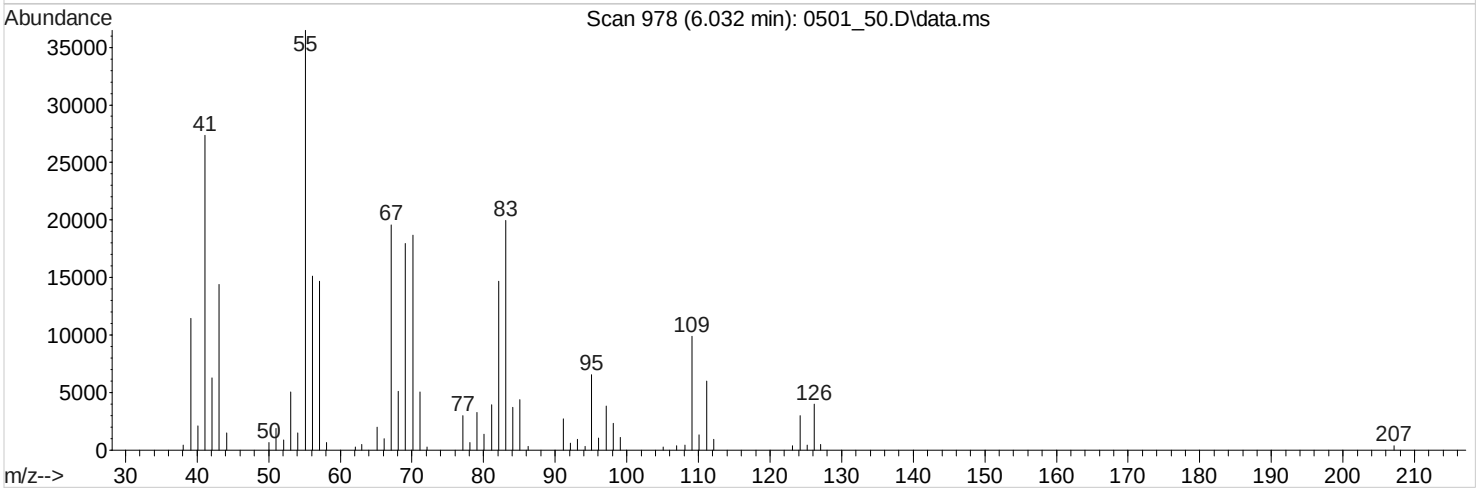

TIC: 0501_50.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 292910553

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.13#
0.00	0.00	0.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\050115\
Data File : 0501 50.D
Acq On    :  2 May 2015   6:32 am
Operator  : 621
Sample    : STD GROMS 20 ppm 15D07746
Misc      : water IS/SURR15C12445
ALS Vial  : 38   Sample Multiplier: 1
InstName  : VOCMS18

Quant Time: May 03 16:06:12 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sun May 03 15:48:49 2015
Response via : Initial Calibration
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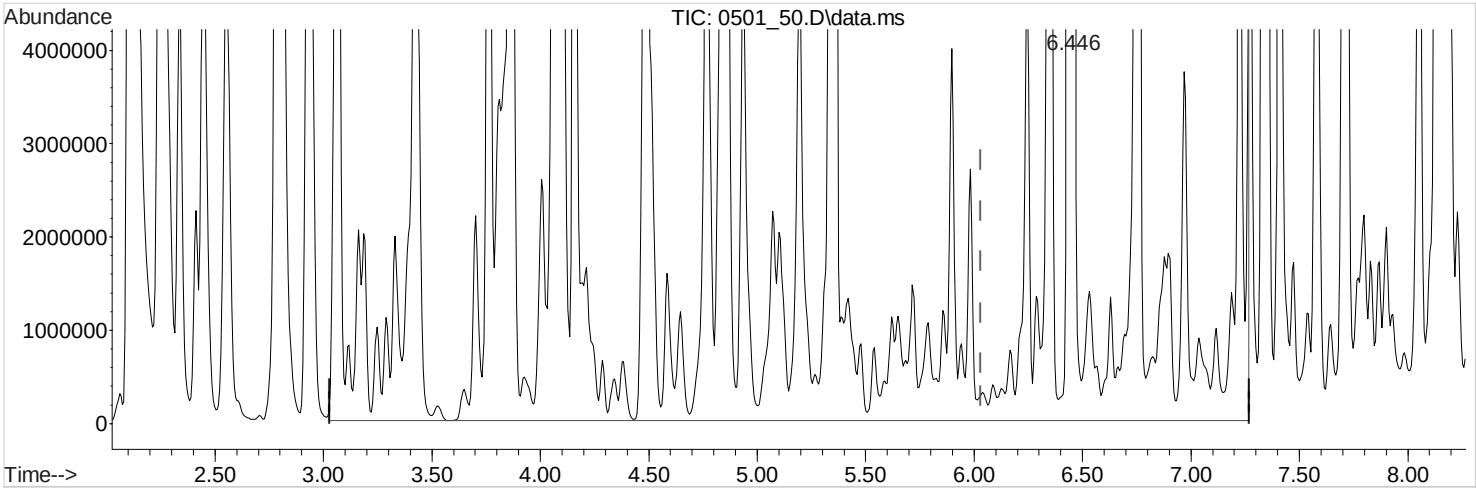
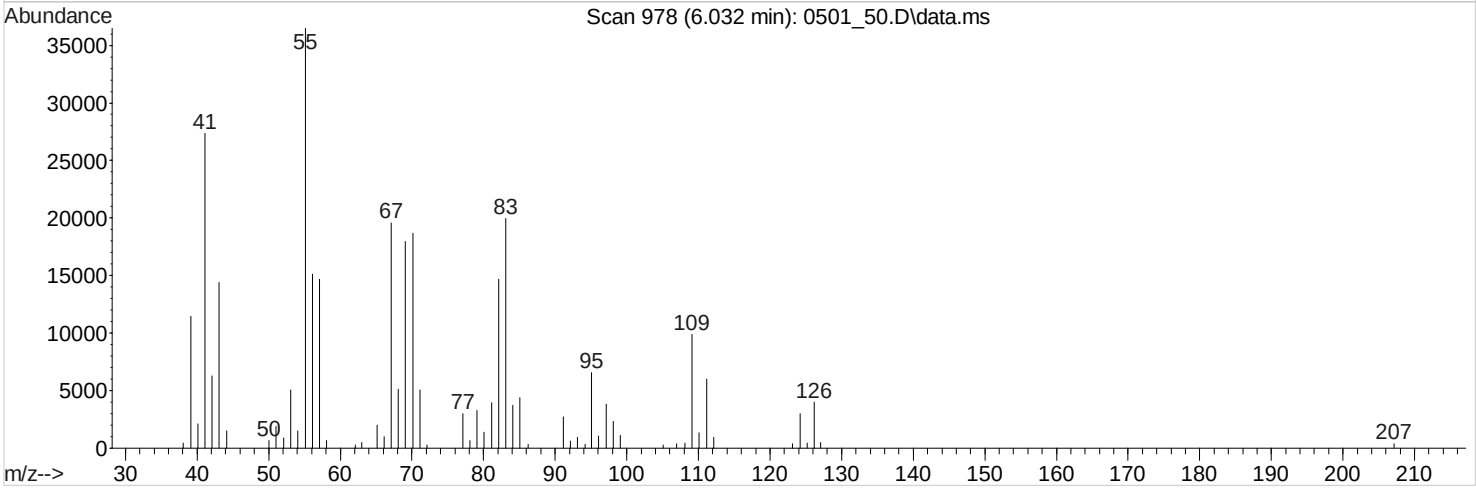




TIC: 0501_50.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

6.030min (0.000) 0.0000000 ppm m

response 551361494

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.07#
0.00	0.00	0.05#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.164	168	952381	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1609142	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	260667	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	699061	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	952381	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1609142	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	260667	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	699061	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.927	111	467542	40.2924298 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.73%		
46) a,a,a-Trifluorotoluene	4.858	146	892299	41.5591100 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.90%		
50) TOLUENE-D8	5.314	98	2018872	41.8385926 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.60%		
68) 4-BROMOFLUOROBENZENE	7.194	95	721481	40.6739906 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.68%		
Target Compounds					Qvalue
13) ACROLEIN	2.808	56	6926	3.4044572 ppb #	75
16) ACETONE	2.972	43	9385	1.7030851 ppb #	86
19) METHYLENE CHLORIDE	2.942	84	10952	0.6061134 ppb	85
21) n-Hexane	3.063	56	18538	1.0085021 ppb #	65
25) VINYL ACETATE	3.507	43	12633	0.4388316 ppb #	73
31) TETRAHYDROFURAN	3.945	42	4258	0.8706683 ppb #	55
38) HEPTANE	4.104	43	13576	0.3688722 ppb #	46
51) TOLUENE	5.351	91	263129	3.2245285 ppb	95
57) 2-HEXANONE	6.148	58	1073	1.6933331 ppb #	1
62) ETHYLBENZENE	6.361	106	20888	0.7306518 ppb	88
63) M&P-XYLENE	6.452	106	55222	1.5694125 ppb	87
64) O-XYLENE	6.762	106	18753	0.5682982 ppb	86
71) 1,2,3-TRICHLOROPROPANE	7.553	110	1818	0.3771648 ppb	95
72) TRANS-1,4-DICHLORO-2-B...	7.468	53	2819	0.6632310 ppb #	23
73) n-Propylbenzene	7.285	91	37533	0.3590056 ppb #	89
74) 4-ETHYLTOLUENE	7.352	105	105383	1.2505618 ppb	99
77) 1,3,5-Trimethylbenzene	7.419	105	34170	0.4642774 ppb	100
79) 1,2,4-Trimethylbenzene	7.717	105	105630	1.4597227 ppb	97
81) 1,3-DICHLOROBENZENE	7.991	146	10386	0.3019639 ppb	85
82) p-Isopropyltoluene	7.900	119	26694	0.3427496 ppb #	88
85) 1,4-DICHLOROBENZENE	8.052	146	11392	0.3110144 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.058	105	45230	0.6169073 ppb	96
88) n-Butylbenzene	8.240	91	24827	0.3465416 ppb #	76
89) 1,2-Dibromo-3-chloropr...	9.037	157	2277	0.7165526 ppb #	65
90) 1,2,4-Trichlorobenzene	9.591	180	22621	1.1736587 ppb	94
91) HEXACHLORO-1,3-BUTADIENE	9.548	225	12779	1.0979535 ppb	90
92) Naphthalene	9.859	128	109108	2.0837617 ppb #	88
93) 1,2,3-Trichlorobenzene	10.011	180	25843	1.3885842 ppb	97
94) 1-Methylnaphthalene	10.735	142	201173	7.3948035 ppb	93
95) 2-Methylnaphthalene	10.862	142	171571	6.9630911 ppb	92
101) ACETONITRILE	3.221	41	2234	1.3511449 ppb #	63
103) tert-BUTYL ALCOHOL	3.124	59	3594	2.5054631 ppb #	1
106) PROPIONITRILE	4.164	54	1368	0.6586843 ppb #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

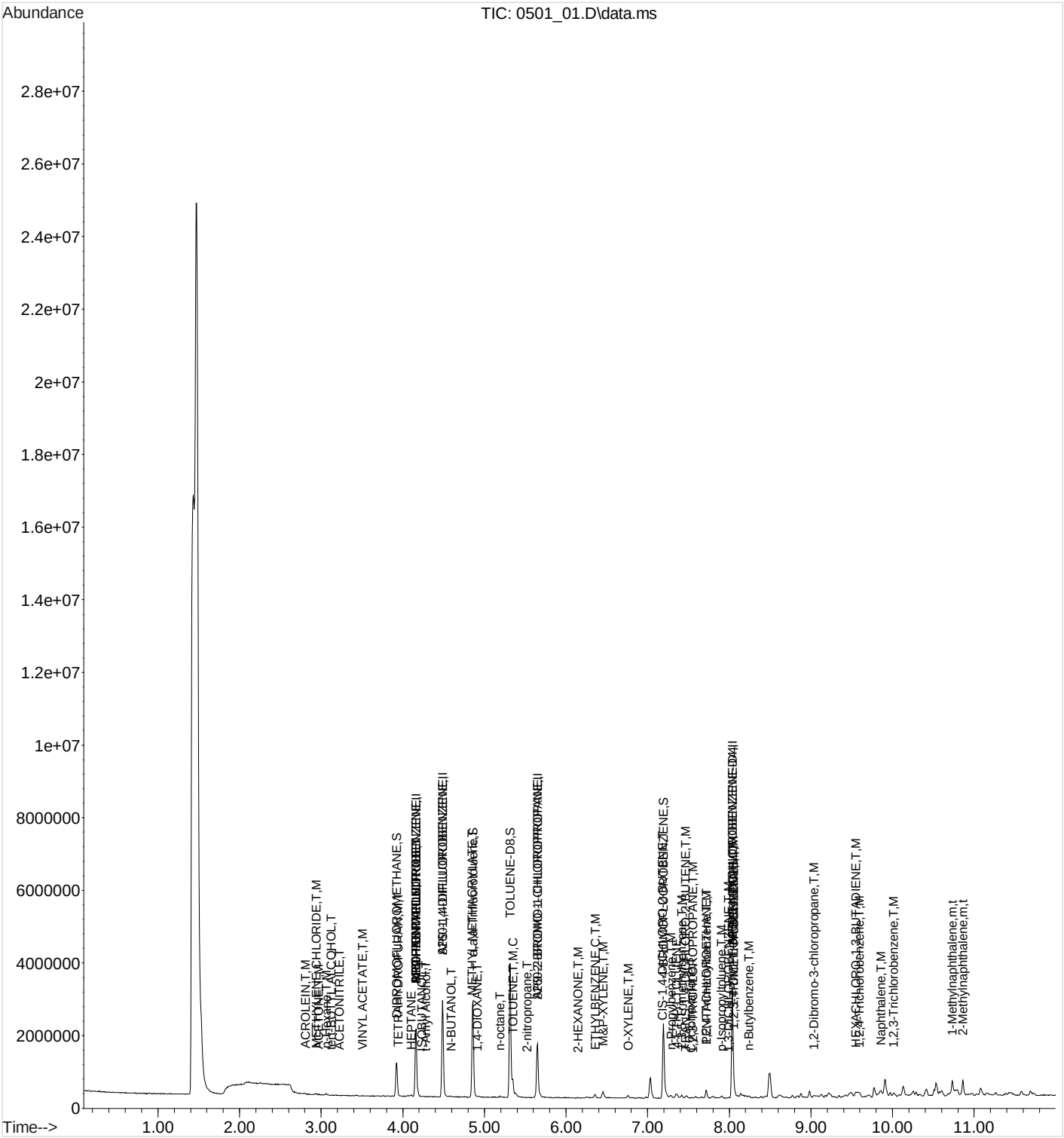
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) METHACRYLONITRILE	4.164	67	6541	0.9678757 ppb #	18
111) ISOBUTANOL	4.231	43	3238	3.5292215 ppb #	12
112) t-Amyl Alcohol	4.280	59	544	0.3721383 ppb #	1
115) N-BUTANOL	4.596	56	3504	8.3989111 ppb #	33
117) 2-nitropropane	5.521	43	2809	0.7504138 ppb #	39
118) METHYL METHACRYLATE	4.846	41	9407	0.7302831 ppb #	1
119) 1,4-DIOXANE	4.913	88	1309	11.9601109 ppb #	25
120) n-octane	5.192	85	7949	0.4501756 ppb #	92
124) CIS-1,4-DICHLORO-2-BUTENE	7.182	53	1864	0.3902628 ppb #	17
125) Cyclohexanone	7.529	55	1143	1.6206732 ppb #	10
126) PENTACHLOROETHANE	7.717	117	5201	0.5278383 ppb #	24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	952381	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1609142	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	260667	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	699061	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	952381	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1609142	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	260667	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	699061	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.927	111	467542	40.2924298	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.73%				
46) a,a,a-Trifluorotoluene	4.858	146	892299	41.5591100	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.90%				
50) TOLUENE-D8	5.314	98	2018872	41.8385926	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.60%				
68) 4-BROMOFLUOROBENZENE	7.194	95	721481	40.6739906	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.68%				
Target Compounds							Qvalue
13) ACROLEIN	2.808	56	6926	3.4044572	ppb	#	75
16) ACETONE	2.972	43	9385	1.7030851	ppb	#	86
19) METHYLENE CHLORIDE	2.942	84	10952	0.6061134	ppb		85
21) n-Hexane	3.063	56	18538	1.0085021	ppb	#	65
25) VINYL ACETATE	3.507	43	12633	0.4388316	ppb	#	73
31) TETRAHYDROFURAN	3.945	42	4258	0.8706683	ppb	#	55
38) HEPTANE	4.104	43	13576	0.3688722	ppb	#	46
51) TOLUENE	5.351	91	263129	3.2245285	ppb		95
57) 2-HEXANONE	6.148	58	1073	1.6933331	ppb	#	1
62) ETHYLBENZENE	6.361	106	20888	0.7306518	ppb		88
63) M&P-XYLENE	6.452	106	55222	1.5694125	ppb		87
64) O-XYLENE	6.762	106	18753	0.5682982	ppb		86
71) 1,2,3-TRICHLOROPROPANE	7.553	110	1818	0.3771648	ppb		95
72) TRANS-1,4-DICHLORO-2-B...	7.468	53	2819	0.6632310	ppb	#	23
73) n-Propylbenzene	7.285	91	37533	0.3590056	ppb	#	89
74) 4-ETHYLTOLUENE	7.352	105	105383	1.2505618	ppb		99
77) 1,3,5-Trimethylbenzene	7.419	105	34170	0.4642774	ppb		100
79) 1,2,4-Trimethylbenzene	7.717	105	105630	1.4597227	ppb		97
81) 1,3-DICHLOROBENZENE	7.991	146	10386	0.3019639	ppb		85
82) p-Isopropyltoluene	7.900	119	26694	0.3427496	ppb	#	88
85) 1,4-DICHLOROBENZENE	8.052	146	11392	0.3110144	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.058	105	45230	0.6169073	ppb		96
88) n-Butylbenzene	8.240	91	24827	0.3465416	ppb	#	76
89) 1,2-Dibromo-3-chloropr...	9.037	157	2277	0.7165526	ppb	#	65
90) 1,2,4-Trichlorobenzene	9.591	180	22621	1.1736587	ppb		94
91) HEXACHLORO-1,3-BUTADIENE	9.548	225	12779	1.0979535	ppb		90
92) Naphthalene	9.859	128	109108	2.0837617	ppb	#	88
93) 1,2,3-Trichlorobenzene	10.011	180	25843	1.3885842	ppb		97
94) 1-Methylnaphthalene	10.735	142	201173	7.3948035	ppb		93
95) 2-Methylnaphthalene	10.862	142	171571	6.9630911	ppb		92
101) ACETONITRILE	3.221	41	2234	1.3511449	ppb	#	63
103) tert-BUTYL ALCOHOL	3.124	59	3594	2.5054631	ppb	#	1
106) PROPIONITRILE	4.164	54	1368	0.6586843	ppb	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

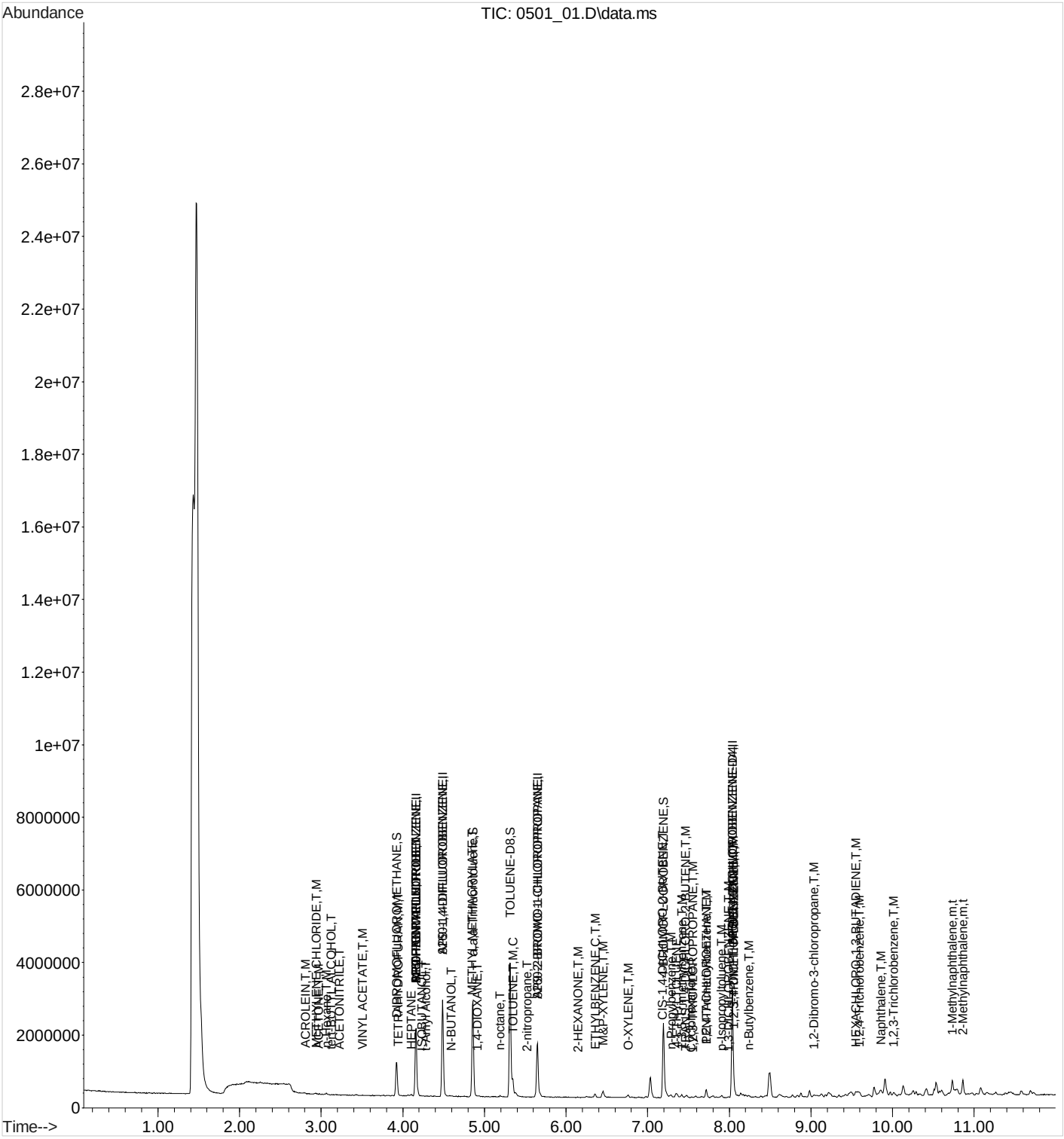
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) METHACRYLONITRILE	4.164	67	6541	0.9678757 ppb #	18
111) ISOBUTANOL	4.231	43	3238	3.5292215 ppb #	12
112) t-Amyl Alcohol	4.280	59	544	0.3721383 ppb #	1
115) N-BUTANOL	4.596	56	3504	8.3989111 ppb #	33
117) 2-nitropropane	5.521	43	2809	0.7504138 ppb #	39
118) METHYL METHACRYLATE	4.846	41	9407	0.7302831 ppb #	1
119) 1,4-DIOXANE	4.913	88	1309	11.9601109 ppb #	25
120) n-octane	5.192	85	7949	0.4501756 ppb #	92
124) CIS-1,4-DICHLORO-2-BUTENE	7.182	53	1864	0.3902628 ppb #	17
125) Cyclohexanone	7.529	55	1143	1.6206732 ppb #	10
126) PENTACHLOROETHANE	7.717	117	5201	0.5278383 ppb #	24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 01.D
Acq On : 1 May 2015 6:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:45 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
Acq On : 1 May 2015 7:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:49 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

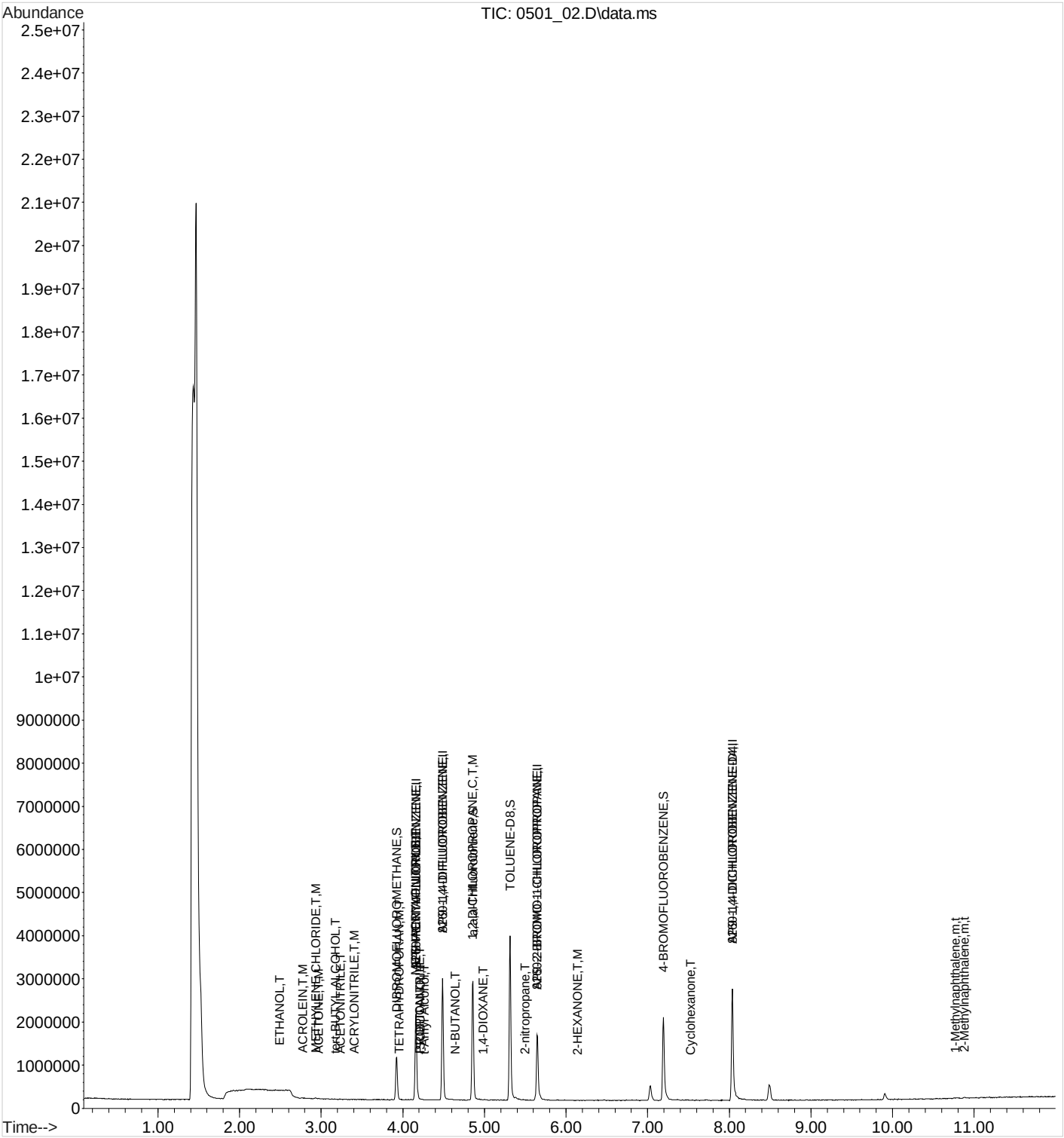
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1032680	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1755428	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	270313	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	691184	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1032680	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1755428	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	270313	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	691184	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	499425	39.6933783	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.23%			
46) a,a,a-Trifluorotoluene	4.858	146	962913	41.1106393	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.78%			
50) TOLUENE-D8	5.314	98	2133763	40.5345925	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.34%			
68) 4-BROMOFLUOROBENZENE	7.194	95	729811	39.6754090	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.19%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	1078	Below Cal	#	1
9) CHLOROETHANE	2.187	66	1126	Below Cal	#	1
13) ACROLEIN	2.771	56	3904	1.7697835	ppb	95
16) ACETONE	2.972	43	5059	0.8466652	ppb #	87
19) METHYLENE CHLORIDE	2.936	84	7463	0.3809069	ppb #	92
20) ACRYLONITRILE	3.404	53	2097	0.4045896	ppb #	32
31) TETRAHYDROFURAN	3.958	42	2251	0.4244900	ppb #	12
43) 1,2-DICHLOROPROPANE	4.852	62	18058	1.2981048	ppb #	47
57) 2-HEXANONE	6.142	58	1282	1.7218132	ppb	96
94) 1-Methylnaphthalene	10.765	142	7712	0.5960604	ppb	91
95) 2-Methylnaphthalene	10.881	142	9564	0.3925719	ppb	87
97) ETHANOL	2.491	45	1175	10.4110341	ppb #	41
101) ACETONITRILE	3.234	41	3616	2.0169361	ppb #	36
103) tert-BUTYL ALCOHOL	3.173	59	689	0.4429698	ppb #	1
106) PROPIONITRILE	4.207	54	1361	0.6043580	ppb #	56
108) METHACRYLONITRILE	4.158	67	3388	0.4623425	ppb #	40
111) ISOBUTANOL	4.213	43	1430	1.4374180	ppb #	1
112) t-Amyl Alcohol	4.262	59	1022	0.6447649	ppb	95
115) N-BUTANOL	4.639	56	1862	4.0911925	ppb #	1
117) 2-nitropropane	5.497	43	2960	0.7248566	ppb #	29
119) 1,4-DIOXANE	4.986	88	571	4.7823683	ppb #	1
125) Cyclohexanone	7.523	55	1647	2.2519665	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
Acq On : 1 May 2015 7:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:49 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
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QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

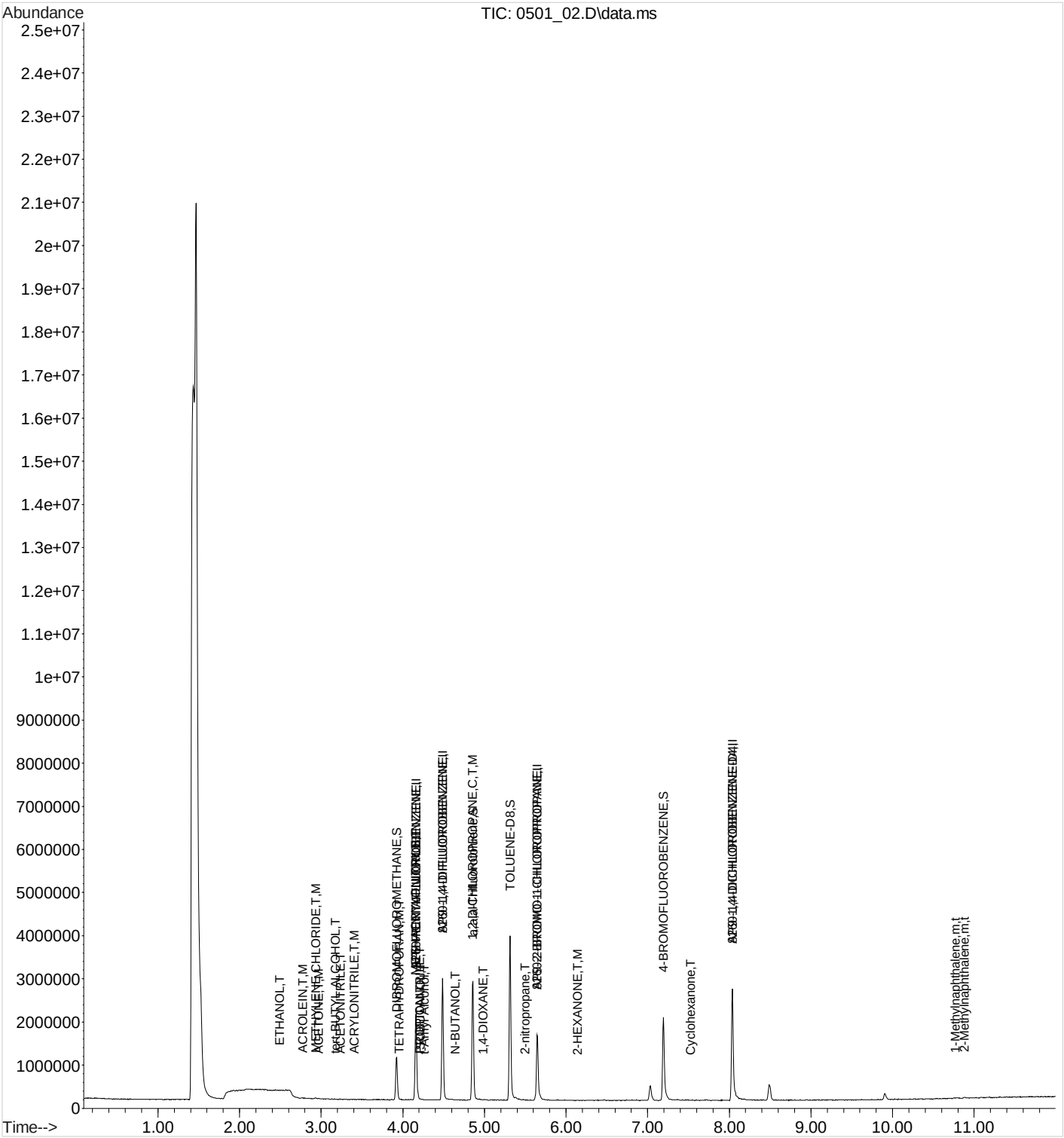
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	1032680	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1755428	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	270313	40.0000000	ppb		-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	691184	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1032680	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1755428	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	270313	40.0000000	ppb	#	-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	691184	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.927	111	499425	39.6933783	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.23%				
46) a,a,a-Trifluorotoluene	4.858	146	962913	41.1106393	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.78%				
50) TOLUENE-D8	5.314	98	2133763	40.5345925	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.34%				
68) 4-BROMOFLUOROBENZENE	7.194	95	729811	39.6754090	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.19%				
Target Compounds							Qvalue
3) PROPENE	1.573	41	1078	Below Cal	#		1
9) CHLOROETHANE	2.187	66	1126	Below Cal	#		1
13) ACROLEIN	2.771	56	3904	1.7697835	ppb		95
16) ACETONE	2.972	43	5059	0.8466652	ppb	#	87
19) METHYLENE CHLORIDE	2.936	84	7463	0.3809069	ppb	#	92
20) ACRYLONITRILE	3.404	53	2097	0.4045896	ppb	#	32
31) TETRAHYDROFURAN	3.958	42	2251	0.4244900	ppb	#	12
43) 1,2-DICHLOROPROPANE	4.852	62	18058	1.2981048	ppb	#	47
57) 2-HEXANONE	6.142	58	1282	1.7218132	ppb		96
94) 1-Methylnaphthalene	10.765	142	7712	0.5960604	ppb		91
95) 2-Methylnaphthalene	10.881	142	9564	0.3925719	ppb		87
97) ETHANOL	2.491	45	1175	10.4110341	ppb	#	41
101) ACETONITRILE	3.234	41	3616	2.0169361	ppb	#	36
103) tert-BUTYL ALCOHOL	3.173	59	689	0.4429698	ppb	#	1
106) PROPIONITRILE	4.207	54	1361	0.6043580	ppb	#	56
108) METHACRYLONITRILE	4.158	67	3388	0.4623425	ppb	#	40
111) ISOBUTANOL	4.213	43	1430	1.4374180	ppb	#	1
112) t-Amyl Alcohol	4.262	59	1022	0.6447649	ppb		95
115) N-BUTANOL	4.639	56	1862	4.0911925	ppb	#	1
117) 2-nitropropane	5.497	43	2960	0.7248566	ppb	#	29
119) 1,4-DIOXANE	4.986	88	571	4.7823683	ppb	#	1
125) Cyclohexanone	7.523	55	1647	2.2519665	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 02.D
Acq On : 1 May 2015 7:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:49 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

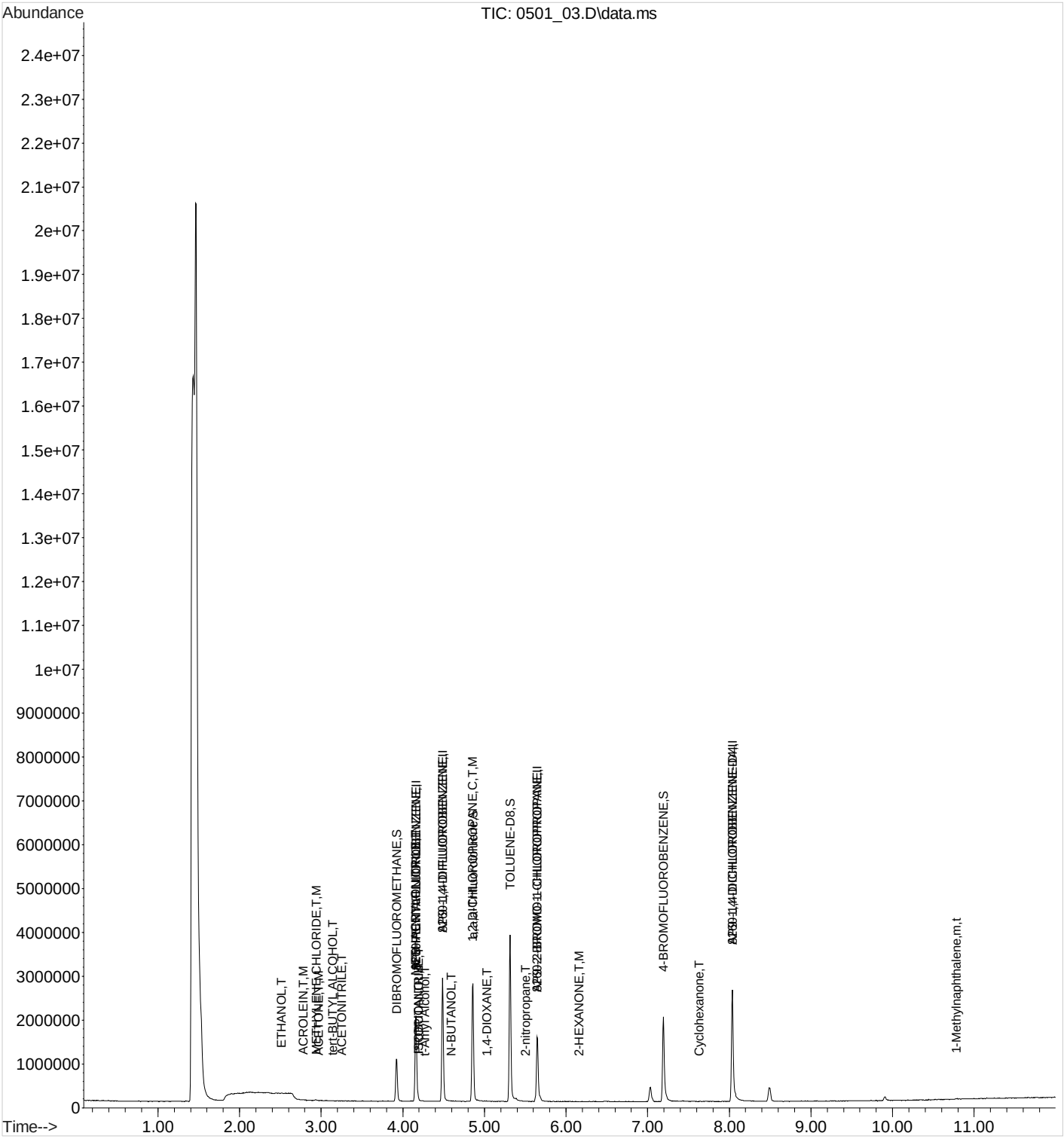
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1019546	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1721005	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	264438	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	676821	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1019546	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1721005	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	264438	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	676821	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	487226	39.2226725	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.06%			
46) a,a,a-Trifluorotoluene	4.858	146	946954	41.2379391	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.09%			
50) TOLUENE-D8	5.314	98	2116270	41.0063955	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.52%			
68) 4-BROMOFLUOROBENZENE	7.194	95	715049	39.7365245	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.34%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	803	Below Cal	#	16
7) 1,3-BUTADIENE	1.846	39	7286	Below Cal	#	19
9) CHLOROETHANE	2.163	66	734	Below Cal	#	1
13) ACROLEIN	2.777	56	1069	0.4908480	ppb #	1
16) ACETONE	2.966	43	4684	0.7940043	ppb	95
19) METHYLENE CHLORIDE	2.942	84	8847	0.4573623	ppb	92
43) 1,2-DICHLOROPROPANE	4.852	62	18009	1.3204763	ppb #	29
57) 2-HEXANONE	6.160	58	1063	1.6889441	ppb	91
94) 1-Methylnaphthalene	10.777	142	4371	0.4805550	ppb #	29
97) ETHANOL	2.516	45	957	8.5886891	ppb #	41
101) ACETONITRILE	3.252	41	1318	0.7446258	ppb #	1
103) tert-BUTYL ALCOHOL	3.142	59	826	0.5378905	ppb #	1
106) PROPIONITRILE	4.195	54	950	0.4272861	ppb #	20
108) METHACRYLONITRILE	4.158	67	5608	0.7751528	ppb #	13
111) ISOBUTANOL	4.195	43	3281	3.3405056	ppb #	75
112) t-Amyl Alcohol	4.268	59	549	0.3508179	ppb #	1
115) N-BUTANOL	4.596	56	2174	4.8722623	ppb #	63
117) 2-nitropropane	5.503	43	2443	0.6102176	ppb #	84
119) 1,4-DIOXANE	5.028	88	633	5.4076865	ppb #	1
125) Cyclohexanone	7.632	55	2406	3.3628463	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

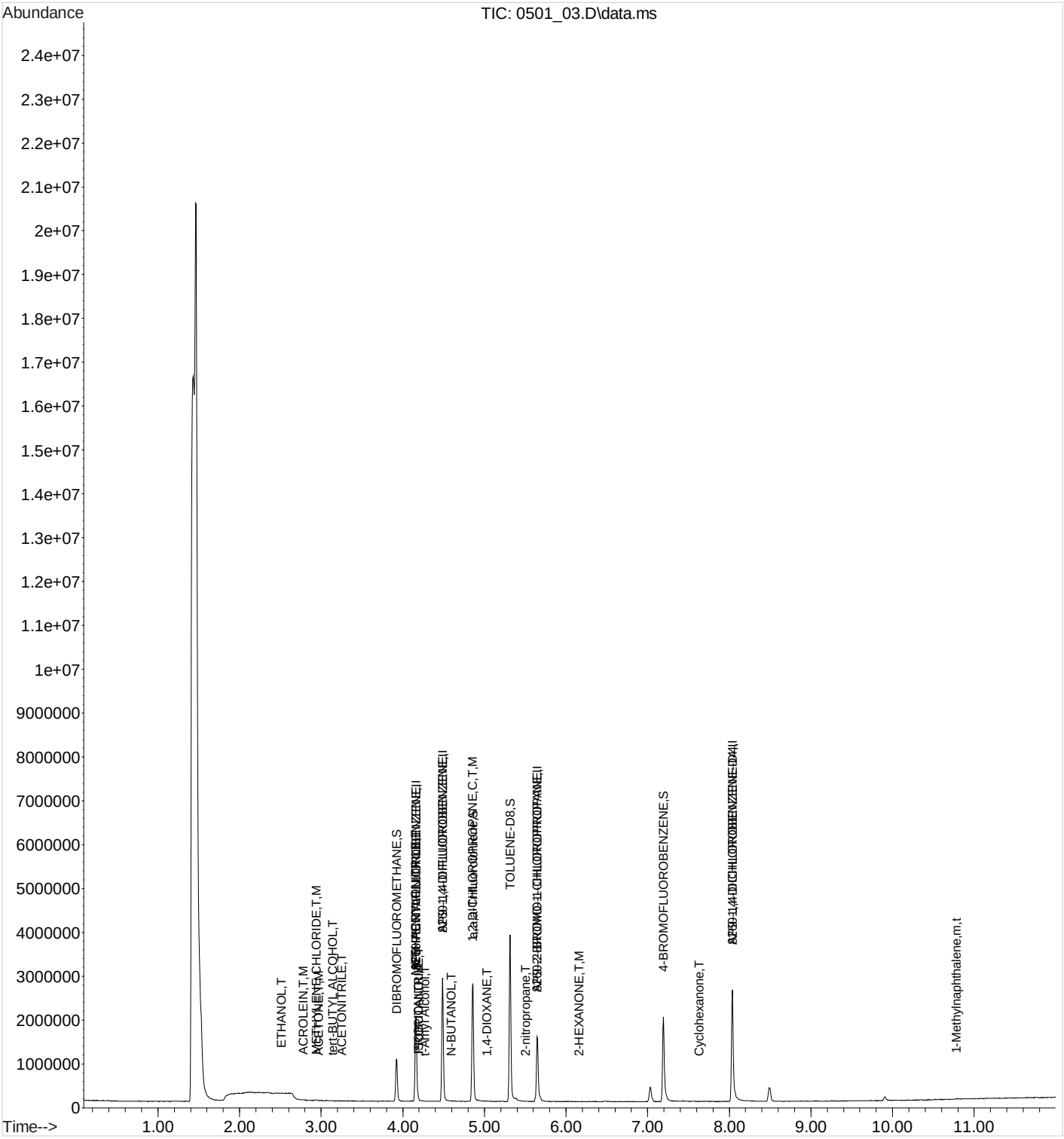
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1019546	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1721005	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	264438	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	676821	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1019546	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1721005	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	264438	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	676821	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	487226	39.2226725	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.06%			
46) a,a,a-Trifluorotoluene	4.858	146	946954	41.2379391	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.09%			
50) TOLUENE-D8	5.314	98	2116270	41.0063955	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.52%			
68) 4-BROMOFLUOROBENZENE	7.194	95	715049	39.7365245	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.34%			
Target Compounds						Qvalue
3) PROPENE	1.573	41	803	Below Cal	#	16
7) 1,3-BUTADIENE	1.846	39	7286	Below Cal	#	19
9) CHLOROETHANE	2.163	66	734	Below Cal	#	1
13) ACROLEIN	2.777	56	1069	0.4908480	ppb #	1
16) ACETONE	2.966	43	4684	0.7940043	ppb	95
19) METHYLENE CHLORIDE	2.942	84	8847	0.4573623	ppb	92
43) 1,2-DICHLOROPROPANE	4.852	62	18009	1.3204763	ppb #	29
57) 2-HEXANONE	6.160	58	1063	1.6889441	ppb	91
94) 1-Methylnaphthalene	10.777	142	4371	0.4805550	ppb #	29
97) ETHANOL	2.516	45	957	8.5886891	ppb #	41
101) ACETONITRILE	3.252	41	1318	0.7446258	ppb #	1
103) tert-BUTYL ALCOHOL	3.142	59	826	0.5378905	ppb #	1
106) PROPIONITRILE	4.195	54	950	0.4272861	ppb #	20
108) METHACRYLONITRILE	4.158	67	5608	0.7751528	ppb #	13
111) ISOBUTANOL	4.195	43	3281	3.3405056	ppb #	75
112) t-Amyl Alcohol	4.268	59	549	0.3508179	ppb #	1
115) N-BUTANOL	4.596	56	2174	4.8722623	ppb #	63
117) 2-nitropropane	5.503	43	2443	0.6102176	ppb #	84
119) 1,4-DIOXANE	5.028	88	633	5.4076865	ppb #	1
125) Cyclohexanone	7.632	55	2406	3.3628463	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 03.D
Acq On : 1 May 2015 7:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:53 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

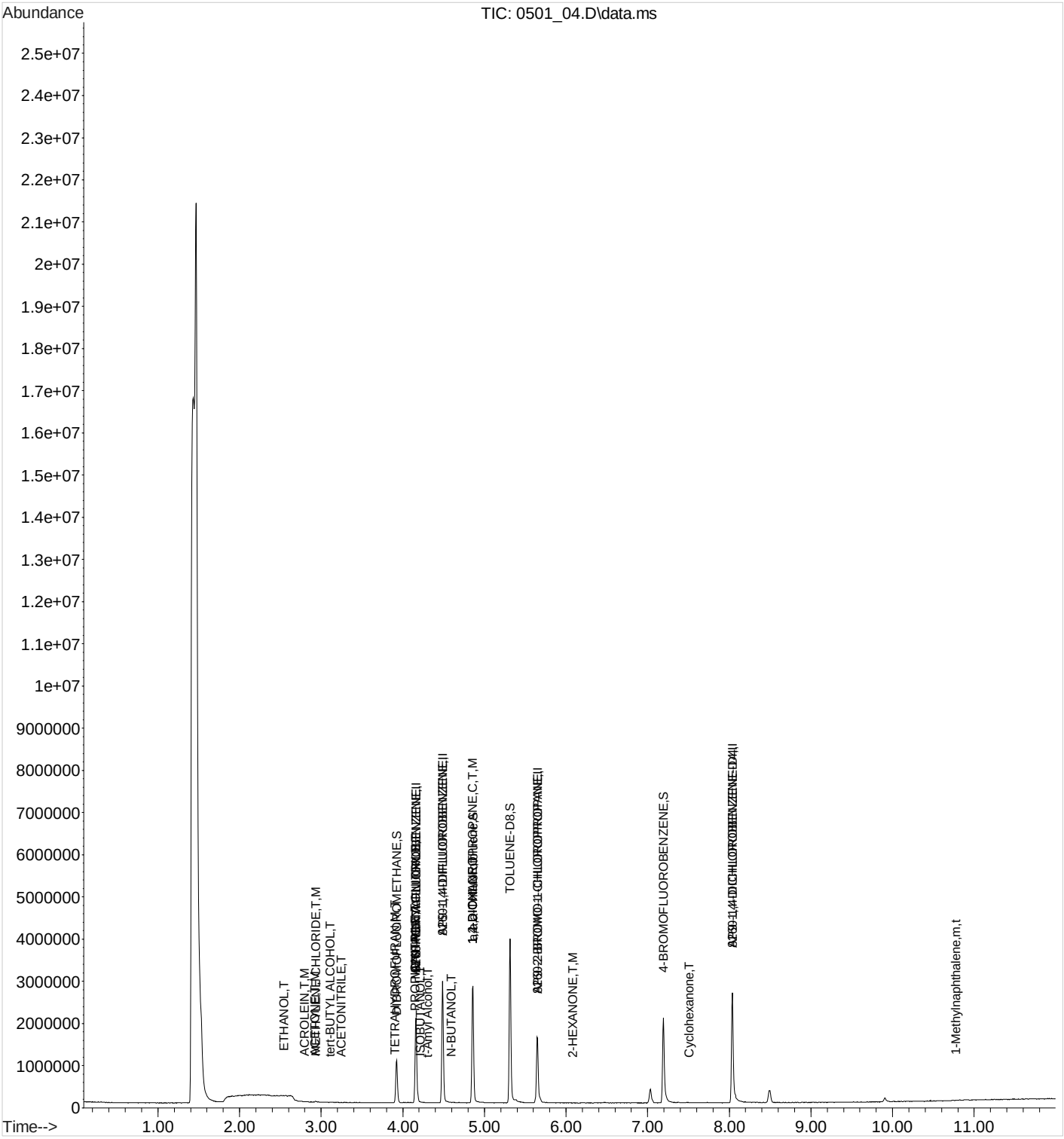
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	1047998	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1779653	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	287698	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	701609	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1047998	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1779653	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	287698	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	701609	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.927	111	492510	38.5716440	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.43%				
46) a,a,a-Trifluorotoluene	4.858	146	972685	40.9625599	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.41%				
50) TOLUENE-D8	5.314	98	2201088	41.2443751	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.11%				
68) 4-BROMOFLUOROBENZENE	7.194	95	735397	37.5632318	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.91%				
Target Compounds							Qvalue
3) PROPENE	1.579	41	2066	Below Cal		#	1
9) CHLOROETHANE	2.199	66	1039	Below Cal		#	1
13) ACROLEIN	2.796	56	1212	0.5414000	ppb		94
16) ACETONE	2.923	43	3094	0.5102378	ppb		90
19) METHYLENE CHLORIDE	2.935	84	8472	0.4260854	ppb		90
31) TETRAHYDROFURAN	3.903	42	1662	0.3088363	ppb	#	21
43) 1,2-DICHLOROPROPANE	4.852	62	16901	1.1983956	ppb	#	3
57) 2-HEXANONE	6.081	58	913	1.6504555	ppb		80
94) 1-Methylnaphthalene	10.771	142	3049	0.4286361	ppb	#	43
97) ETHANOL	2.546	45	2243	19.5835125	ppb	#	75
101) ACETONITRILE	3.246	41	2815	1.5472035	ppb	#	56
103) tert-BUTYL ALCOHOL	3.112	59	554	0.3509700	ppb	#	63
106) PROPIONITRILE	4.152	54	1110	0.4856959	ppb	#	1
108) METHACRYLONITRILE	4.158	67	3288	0.4421377	ppb	#	21
111) ISOBUTANOL	4.213	43	1372	1.3589593	ppb	#	75
112) t-Amyl Alcohol	4.304	59	594	0.3692685	ppb	#	16
115) N-BUTANOL	4.596	56	2075	4.4971361	ppb	#	22
116) Methyl Cyclohexane	4.487	83	21009	Below Cal		#	60
119) 1,4-DIOXANE	4.852	88	12458	102.9207465	ppb	#	40
125) Cyclohexanone	7.504	55	1383	1.7767266	ppb	#	55

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

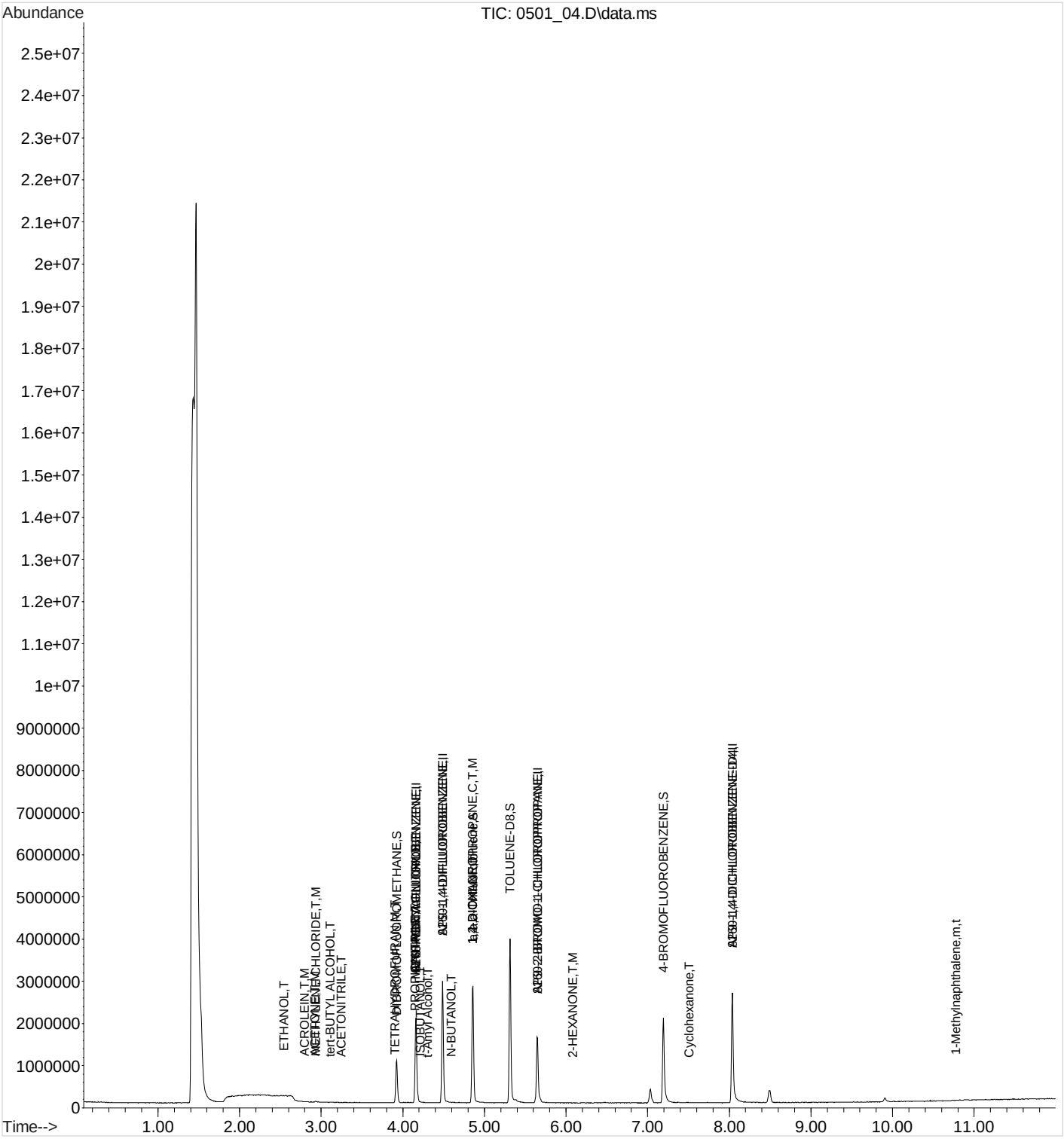
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.164	168	1047998	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.487	114	1779653	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.649	79	287698	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.040	152	701609	40.0000000	ppb	#	0.00
96)	AP9-PENTAFLUOROBENZENE	4.164	168	1047998	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	1779653	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.649	79	287698	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	701609	40.0000000	ppb		0.00
	System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	3.927	111	492510	38.5716440	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 96.43%				
46)	a,a,a-Trifluorotoluene	4.858	146	972685	40.9625599	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 102.41%				
50)	TOLUENE-D8	5.314	98	2201088	41.2443751	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 103.11%				
68)	4-BROMOFLUOROBENZENE	7.194	95	735397	37.5632318	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 93.91%				
	Target Compounds							Qvalue
3)	PROPENE	1.579	41	2066	Below Cal		#	1
9)	CHLOROETHANE	2.199	66	1039	Below Cal		#	1
13)	ACROLEIN	2.796	56	1212	0.5414000	ppb		94
16)	ACETONE	2.923	43	3094	0.5102378	ppb		90
19)	METHYLENE CHLORIDE	2.935	84	8472	0.4260854	ppb		90
31)	TETRAHYDROFURAN	3.903	42	1662	0.3088363	ppb	#	21
43)	1,2-DICHLOROPROPANE	4.852	62	16901	1.1983956	ppb	#	3
57)	2-HEXANONE	6.081	58	913	1.6504555	ppb		80
94)	1-Methylnaphthalene	10.771	142	3049	0.4286361	ppb	#	43
97)	ETHANOL	2.546	45	2243	19.5835125	ppb	#	75
101)	ACETONITRILE	3.246	41	2815	1.5472035	ppb	#	56
103)	tert-BUTYL ALCOHOL	3.112	59	554	0.3509700	ppb	#	63
106)	PROPIONITRILE	4.152	54	1110	0.4856959	ppb	#	1
108)	METHACRYLONITRILE	4.158	67	3288	0.4421377	ppb	#	21
111)	ISOBUTANOL	4.213	43	1372	1.3589593	ppb	#	75
112)	t-Amyl Alcohol	4.304	59	594	0.3692685	ppb	#	16
115)	N-BUTANOL	4.596	56	2075	4.4971361	ppb	#	22
116)	Methyl Cyclohexane	4.487	83	21009	Below Cal		#	60
119)	1,4-DIOXANE	4.852	88	12458	102.9207465	ppb	#	40
125)	Cyclohexanone	7.504	55	1383	1.7767266	ppb	#	55

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 04.D
Acq On : 1 May 2015 7:51 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:23:58 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:02 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

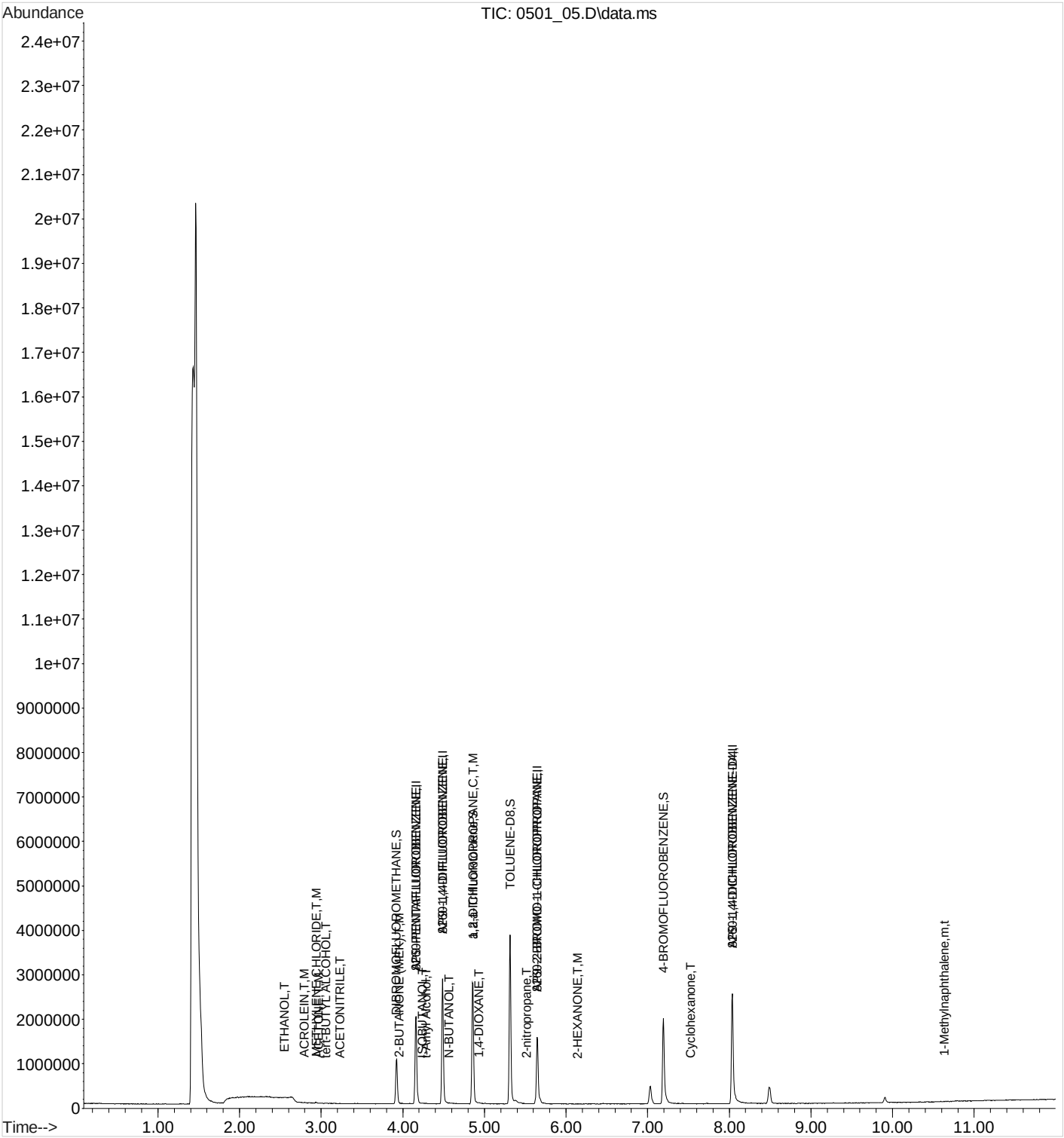
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	1037797	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1746466	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	265761	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	695691	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1037797	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1746466	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	265761	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	695691	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	497118	39.3152126	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.29%			
46) a,a,a-Trifluorotoluene	4.858	146	957975	41.1096938	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.77%			
50) TOLUENE-D8	5.314	98	2148051	41.0154146	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.54%			
68) 4-BROMOFLUOROBENZENE	7.194	95	728845	40.3015611	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.75%			
Target Compounds						Qvalue
3) PROPENE	1.567	41	1492	Below Cal	#	16
7) 1,3-BUTADIENE	1.847	39	8269	Below Cal	#	29
9) CHLOROETHANE	2.200	66	709	Below Cal	#	17
13) ACROLEIN	2.790	56	900	0.4059815	ppb #	60
16) ACETONE	2.972	43	9408	1.5667428	ppb #	80
19) METHYLENE CHLORIDE	2.942	84	8760	0.4449005	ppb	92
29) 2-BUTANONE (MEK)	3.958	43	3951	0.4885993	ppb	95
43) 1,2-DICHLOROPROPANE	4.858	62	17241	1.2457344	ppb #	26
57) 2-HEXANONE	6.142	58	946	1.6680142	ppb #	47
94) 1-Methylnaphthalene	10.631	142	527	0.3404450	ppb #	12
97) ETHANOL	2.552	45	1656	14.6005660	ppb #	41
101) ACETONITRILE	3.228	41	2629	1.4591759	ppb #	53
103) tert-BUTYL ALCOHOL	3.057	59	602	0.3851277	ppb #	1
111) ISOBUTANOL	4.238	43	1995	1.9954612	ppb #	75
112) t-Amyl Alcohol	4.286	59	757	0.4752255	ppb #	32
115) N-BUTANOL	4.566	56	2053	4.5340058	ppb #	56
117) 2-nitropropane	5.515	43	1322	0.3253979	ppb #	42
119) 1,4-DIOXANE	4.931	88	601	5.0594612	ppb #	1
125) Cyclohexanone	7.523	55	1951	2.7133217	ppb #	46

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:02 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:02 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

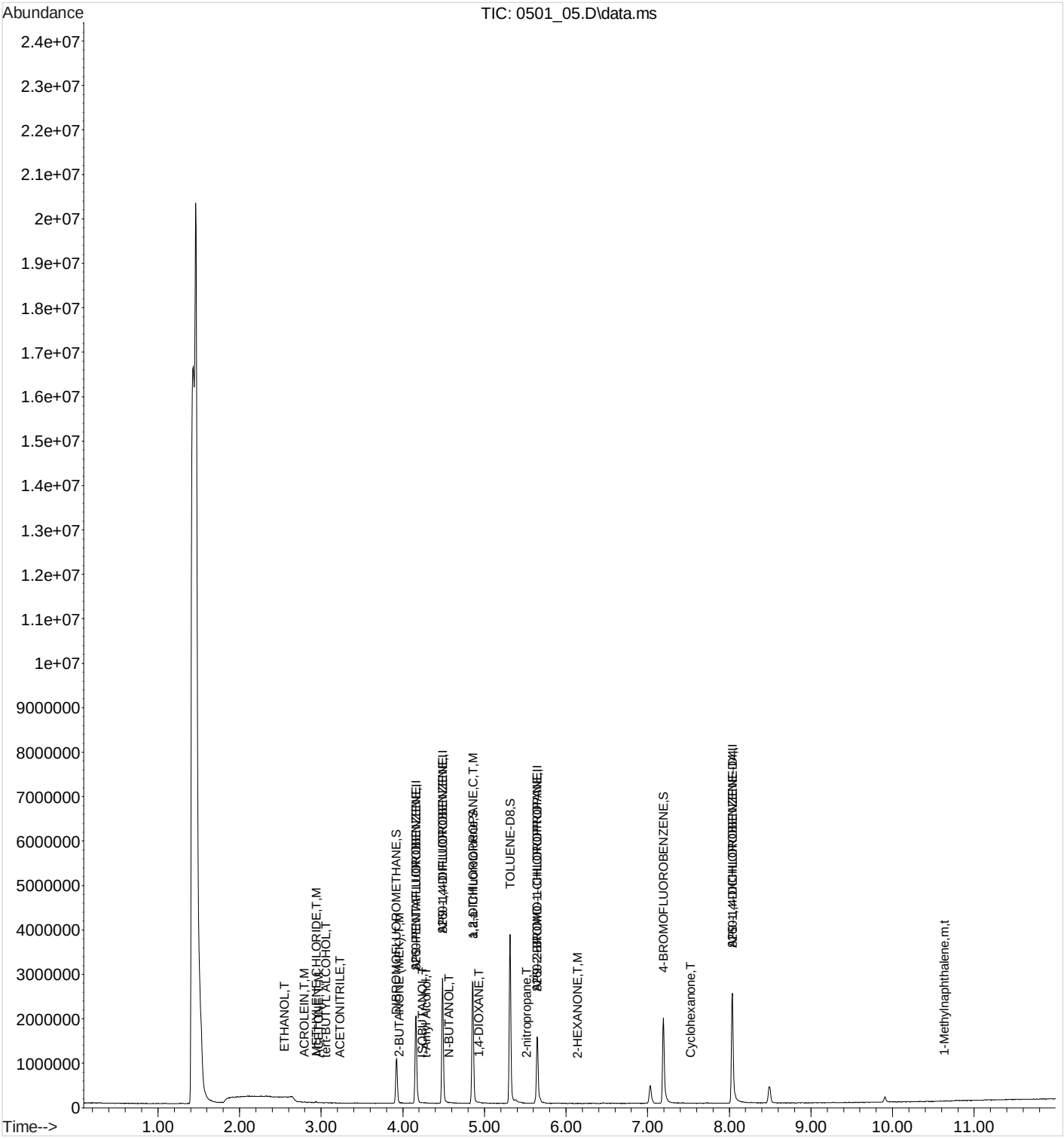
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.165	168	1037797	40.0000000	ppb	0.00
41)	8260-1,4-DIFLUOROBENZENE	4.487	114	1746466	40.0000000	ppb	0.00
53)	8260-2-BROMO-1-CHLOROP...	5.643	79	265761	40.0000000	ppb	-0.01
84)	8260-1,4-DICHLOROBENZE...	8.040	152	695691	40.0000000	ppb	# 0.00
96)	AP9-PENTAFLUOROBENZENE	4.165	168	1037797	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	1746466	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.643	79	265761	40.0000000	ppb	#-0.01
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	695691	40.0000000	ppb	0.00
System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	3.921	111	497118	39.3152126	ppb	0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 98.29%			
46)	a,a,a-Trifluorotoluene	4.858	146	957975	41.1096938	ppb	0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 102.77%			
50)	TOLUENE-D8	5.314	98	2148051	41.0154146	ppb	0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 102.54%			
68)	4-BROMOFLUOROBENZENE	7.194	95	728845	40.3015611	ppb	0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 100.75%			
Target Compounds							Qvalue
3)	PROPENE	1.567	41	1492	Below Cal	#	16
7)	1,3-BUTADIENE	1.847	39	8269	Below Cal	#	29
9)	CHLOROETHANE	2.200	66	709	Below Cal	#	17
13)	ACROLEIN	2.790	56	900	0.4059815	ppb #	60
16)	ACETONE	2.972	43	9408	1.5667428	ppb #	80
19)	METHYLENE CHLORIDE	2.942	84	8760	0.4449005	ppb	92
29)	2-BUTANONE (MEK)	3.958	43	3951	0.4885993	ppb	95
43)	1,2-DICHLOROPROPANE	4.858	62	17241	1.2457344	ppb #	26
57)	2-HEXANONE	6.142	58	946	1.6680142	ppb #	47
94)	1-Methylnaphthalene	10.631	142	527	0.3404450	ppb #	12
97)	ETHANOL	2.552	45	1656	14.6005660	ppb #	41
101)	ACETONITRILE	3.228	41	2629	1.4591759	ppb #	53
103)	tert-BUTYL ALCOHOL	3.057	59	602	0.3851277	ppb #	1
111)	ISOBUTANOL	4.238	43	1995	1.9954612	ppb #	75
112)	t-Amyl Alcohol	4.286	59	757	0.4752255	ppb #	32
115)	N-BUTANOL	4.566	56	2053	4.5340058	ppb #	56
117)	2-nitropropane	5.515	43	1322	0.3253979	ppb #	42
119)	1,4-DIOXANE	4.931	88	601	5.0594612	ppb #	1
125)	Cyclohexanone	7.523	55	1951	2.7133217	ppb #	46

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 05.D
Acq On : 1 May 2015 8:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:02 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 01 09:48:27 2015
Quant Method : C:\msdchem\1\methods\V818C19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration

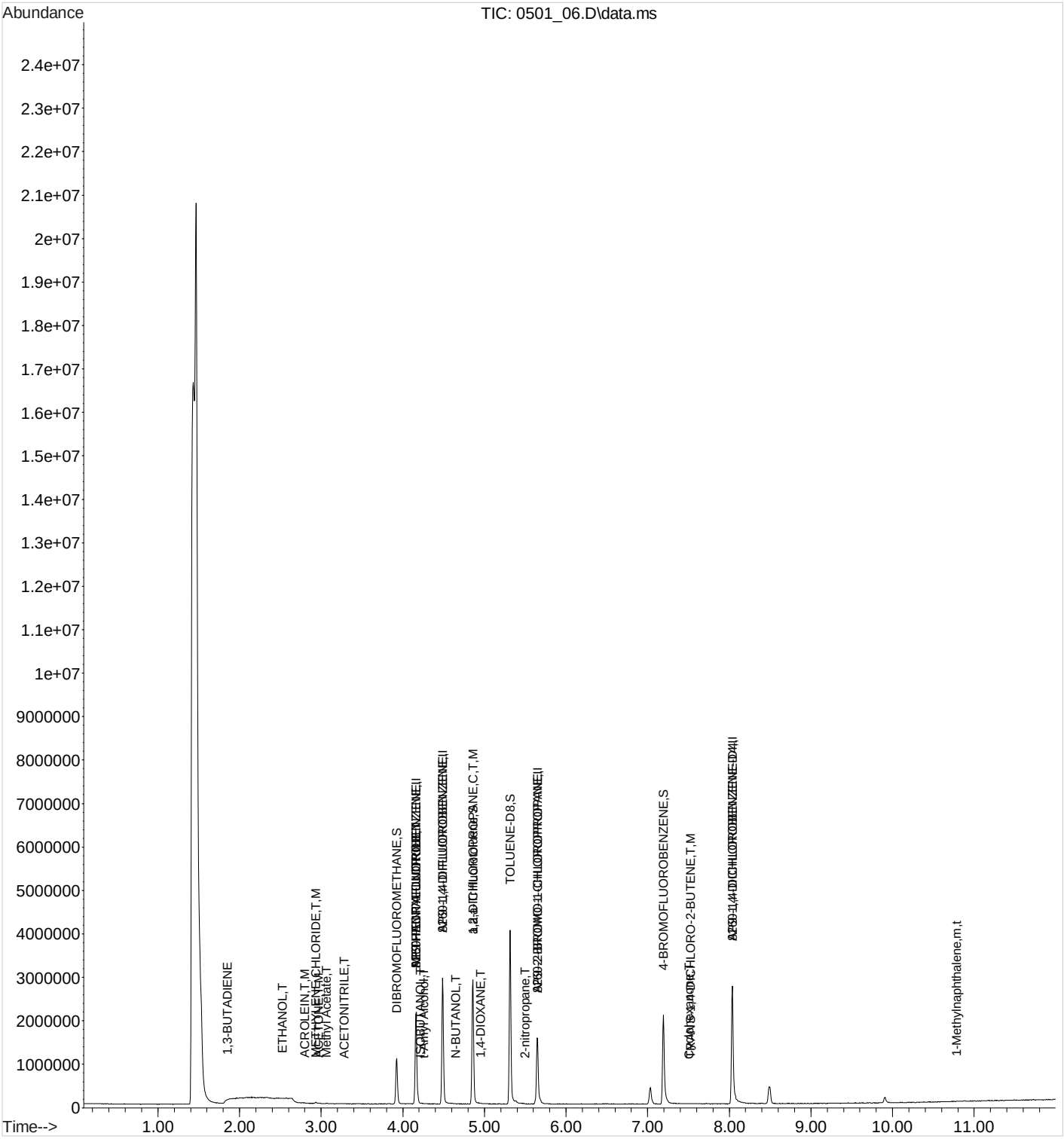
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1067746	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1817109	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	275406	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	721611	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1067746	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1817109	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	275406	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	721611	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	520955	33.9581673	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 84.90%			
46) a,a,a-Trifluorotoluene	4.858	146	978296	47.2345127	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 118.09%#			
50) TOLUENE-D8	5.314	98	2209173	41.1097625	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.77%			
68) 4-BROMOFLUOROBENZENE	7.194	95	752927	47.1823743	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 117.96%			
Target Compounds						Qvalue
7) 1,3-BUTADIENE	1.853	39	9391	0.3256590	ppb #	37
13) ACROLEIN	2.796	56	1679	0.7539707	ppb #	65
16) ACETONE	2.972	43	10953	2.2259294	ppb #	77
19) METHYLENE CHLORIDE	2.936	84	9744	0.3941793	ppb	88
43) 1,2-DICHLOROPROPANE	4.858	62	17832	1.1372243	ppb #	23
72) TRANS-1,4-DICHLORO-2-B...	7.523	53	865	4.2942745	ppb #	23
94) 1-Methylnaphthalene	10.783	142	2913	1.3026229	ppb #	29
97) ETHANOL	2.528	45	4161	35.6575527	ppb #	41
100) Methyl Acetate	3.063	43	5008	0.4146055	ppb #	75
101) ACETONITRILE	3.282	41	5114	2.7588129	ppb #	34
108) METHACRYLONITRILE	4.164	67	4597	0.6067261	ppb #	9
111) ISOBUTANOL	4.213	43	871	0.8467652	ppb #	1
112) t-Amyl Alcohol	4.256	59	569	0.3471847	ppb #	1
115) N-BUTANOL	4.645	56	1157	2.4558715	ppb #	18
117) 2-nitropropane	5.497	43	1784	0.4220436	ppb #	30
119) 1,4-DIOXANE	4.955	88	541	4.3772990	ppb #	1
125) Cyclohexanone	7.504	55	721	0.9676028	ppb #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 01 09:48:27 2015
Quant Method : C:\msdchem\1\methods\V818C19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 01 09:48:27 2015
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Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration

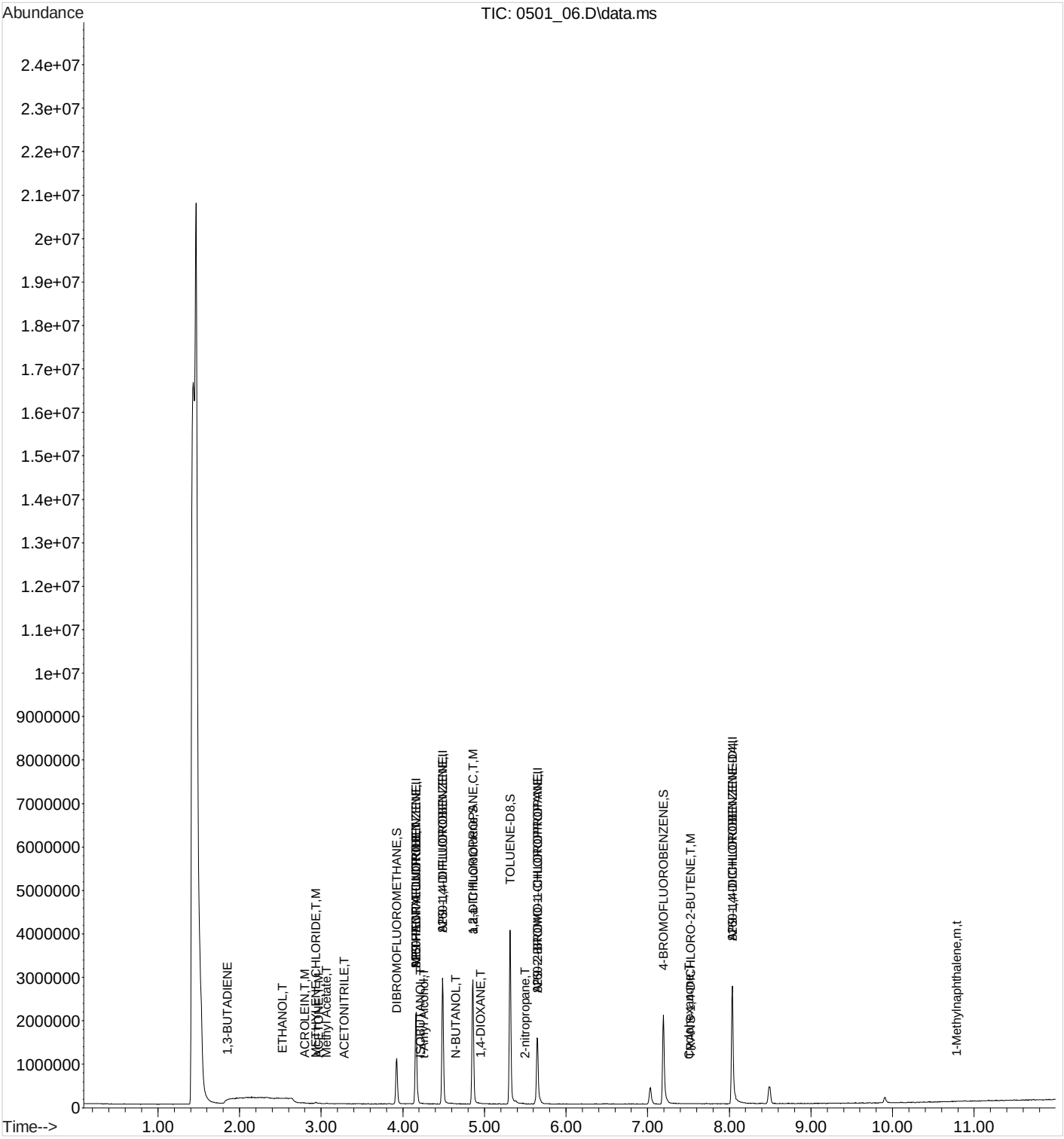
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1067746	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1817109	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	275406	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	721611	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1067746	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1817109	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	275406	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	721611	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	520955	33.9581673	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 84.90%			
46) a,a,a-Trifluorotoluene	4.858	146	978296	47.2345127	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 118.09%#			
50) TOLUENE-D8	5.314	98	2209173	41.1097625	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.77%			
68) 4-BROMOFLUOROBENZENE	7.194	95	752927	47.1823743	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 117.96%			
Target Compounds						Qvalue
7) 1,3-BUTADIENE	1.853	39	9391	0.3256590	ppb #	37
13) ACROLEIN	2.796	56	1679	0.7539707	ppb #	65
16) ACETONE	2.972	43	10953	2.2259294	ppb #	77
19) METHYLENE CHLORIDE	2.936	84	9744	0.3941793	ppb	88
43) 1,2-DICHLOROPROPANE	4.858	62	17832	1.1372243	ppb #	23
72) TRANS-1,4-DICHLORO-2-B...	7.523	53	865	4.2942745	ppb #	23
94) 1-Methylnaphthalene	10.783	142	2913	1.3026229	ppb #	29
97) ETHANOL	2.528	45	4161	35.6575527	ppb #	41
100) Methyl Acetate	3.063	43	5008	0.4146055	ppb #	75
101) ACETONITRILE	3.282	41	5114	2.7588129	ppb #	34
108) METHACRYLONITRILE	4.164	67	4597	0.6067261	ppb #	9
111) ISOBUTANOL	4.213	43	871	0.8467652	ppb #	1
112) t-Amyl Alcohol	4.256	59	569	0.3471847	ppb #	1
115) N-BUTANOL	4.645	56	1157	2.4558715	ppb #	18
117) 2-nitropropane	5.497	43	1784	0.4220436	ppb #	30
119) 1,4-DIOXANE	4.955	88	541	4.3772990	ppb #	1
125) Cyclohexanone	7.504	55	721	0.9676028	ppb #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 06.D
Acq On : 1 May 2015 8:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 01 09:48:27 2015
Quant Method : C:\msdchem\1\methods\V818C19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Wed Mar 25 08:40:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 07.D
Acq On : 1 May 2015 8:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

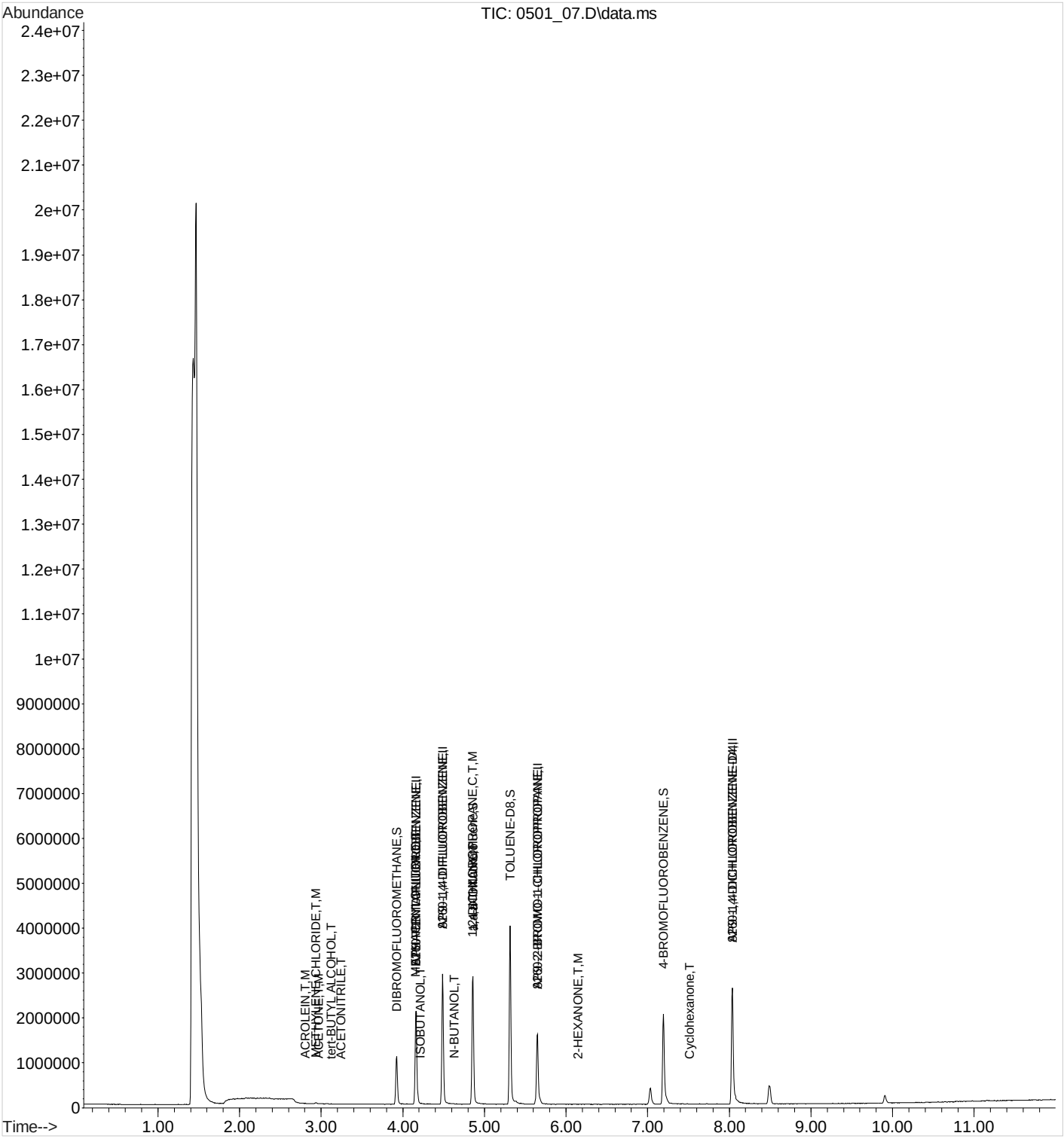
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.165	168	1076151	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1804027	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	279614	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	730234	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1076151	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1804027	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	279614	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	730234	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.927	111	526618	40.1639147	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.41%				
46) a,a,a-Trifluorotoluene	4.858	146	981310	40.7674356	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.92%				
50) TOLUENE-D8	5.314	98	2220400	41.0441095	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.61%				
68) 4-BROMOFLUOROBENZENE	7.194	95	758459	39.8612705	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.65%				
Target Compounds							Qvalue
7) 1,3-BUTADIENE	1.853	39	5611	Below Cal		#	4
13) ACROLEIN	2.802	56	977	0.4250083	ppb	#	1
16) ACETONE	2.972	43	4194	0.6735472	ppb		89
19) METHYLENE CHLORIDE	2.936	84	8787	0.4303666	ppb		91
43) 1,2-DICHLOROPROPANE	4.852	62	16878	1.1805954	ppb	#	51
57) 2-HEXANONE	6.148	58	684	1.6173848	ppb	#	31
101) ACETONITRILE	3.240	41	2633	1.4093119	ppb	#	32
103) tert-BUTYL ALCOHOL	3.124	59	632	0.3899101	ppb	#	63
108) METHACRYLONITRILE	4.158	67	4874	0.6382612	ppb	#	31
111) ISOBUTANOL	4.213	43	1789	1.7256389	ppb	#	5
115) N-BUTANOL	4.627	56	1062	2.2705692	ppb	#	29
119) 1,4-DIOXANE	4.858	88	12938	105.4420998	ppb	#	38
125) Cyclohexanone	7.510	55	1039	1.3733837	ppb	#	18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 07.D
Acq On : 1 May 2015 8:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 07.D
Acq On : 1 May 2015 8:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

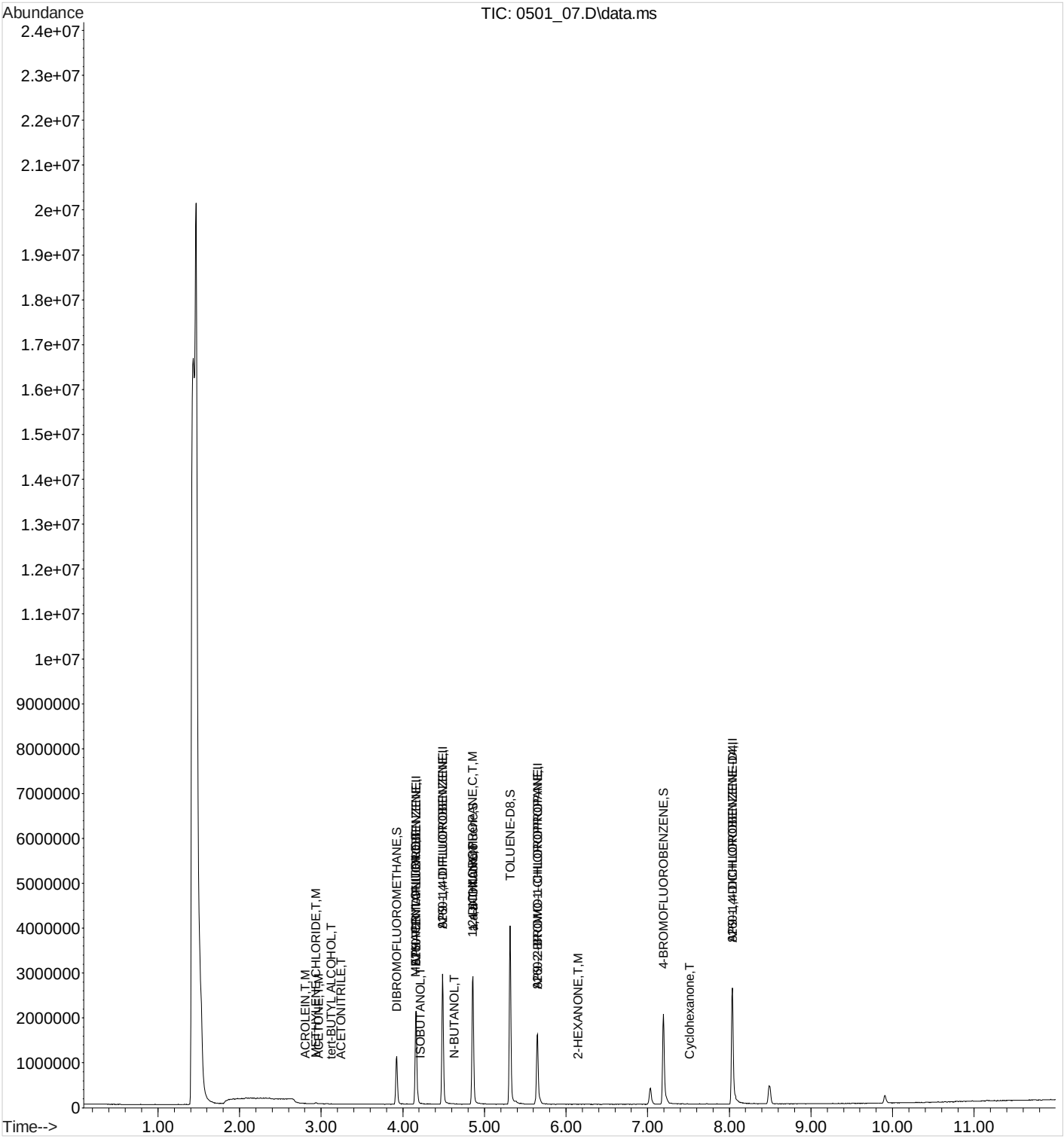
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.165	168	1076151	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1804027	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	279614	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	730234	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1076151	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1804027	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	279614	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	730234	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.927	111	526618	40.1639147 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.41%		
46) a,a,a-Trifluorotoluene	4.858	146	981310	40.7674356 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.92%		
50) TOLUENE-D8	5.314	98	2220400	41.0441095 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.61%		
68) 4-BROMOFLUOROBENZENE	7.194	95	758459	39.8612705 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.65%		
Target Compounds					Qvalue
7) 1,3-BUTADIENE	1.853	39	5611	Below Cal	# 4
13) ACROLEIN	2.802	56	977	0.4250083 ppb	# 1
16) ACETONE	2.972	43	4194	0.6735472 ppb	89
19) METHYLENE CHLORIDE	2.936	84	8787	0.4303666 ppb	91
43) 1,2-DICHLOROPROPANE	4.852	62	16878	1.1805954 ppb	# 51
57) 2-HEXANONE	6.148	58	684	1.6173848 ppb	# 31
101) ACETONITRILE	3.240	41	2633	1.4093119 ppb	# 32
103) tert-BUTYL ALCOHOL	3.124	59	632	0.3899101 ppb	# 63
108) METHACRYLONITRILE	4.158	67	4874	0.6382612 ppb	# 31
111) ISOBUTANOL	4.213	43	1789	1.7256389 ppb	# 5
115) N-BUTANOL	4.627	56	1062	2.2705692 ppb	# 29
119) 1,4-DIOXANE	4.858	88	12938	105.4420998 ppb	# 38
125) Cyclohexanone	7.510	55	1039	1.3733837 ppb	# 18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 07.D
Acq On : 1 May 2015 8:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 08.D
Acq On : 1 May 2015 9:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

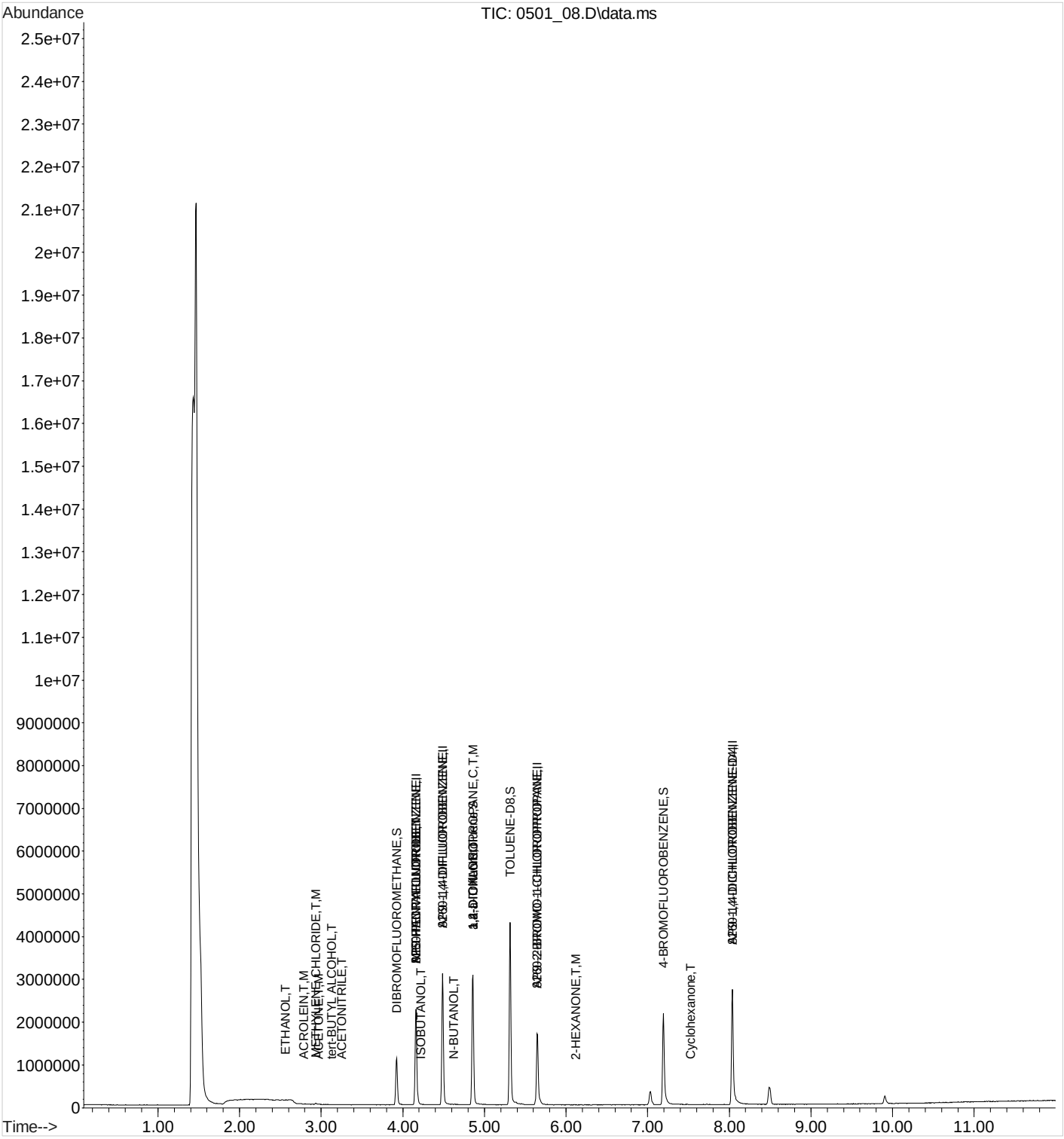
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1141568	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1921836	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	294926	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	731070	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1141568	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1921836	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	294926	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	731070	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	541638	38.9422365	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.36%			
46) a,a,a-Trifluorotoluene	4.858	146	1051580	41.0087183	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.52%			
50) TOLUENE-D8	5.314	98	2357644	40.9095362	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.27%			
68) 4-BROMOFLUOROBENZENE	7.194	95	779829	38.8565520	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.14%			
Target Compounds						Qvalue
3) PROPENE	1.609	41	546	Below Cal	#	1
7) 1,3-BUTADIENE	1.901	39	2222	Below Cal		92
9) CHLOROETHANE	2.187	66	961	Below Cal	#	1
13) ACROLEIN	2.783	56	1415	0.5802709	ppb	88
16) ACETONE	2.966	43	6990	1.0582498	ppb #	73
19) METHYLENE CHLORIDE	2.936	84	8926	0.4121224	ppb	96
43) 1,2-DICHLOROPROPANE	4.858	62	19220	1.2620024	ppb #	5
57) 2-HEXANONE	6.117	58	747	1.6213233	ppb #	62
97) ETHANOL	2.558	45	2199	17.6256529	ppb #	41
101) ACETONITRILE	3.252	41	1415	0.7139769	ppb #	36
103) tert-BUTYL ALCOHOL	3.130	59	569	0.3309262	ppb #	1
108) METHACRYLONITRILE	4.164	67	4681	0.5778605	ppb #	3
111) ISOBUTANOL	4.219	43	805	0.7319929	ppb #	75
115) N-BUTANOL	4.621	56	832	1.6697839	ppb #	1
116) Methyl Cyclohexane	4.487	83	23614	Below Cal	#	45
119) 1,4-DIOXANE	4.858	88	13626	104.2418217	ppb #	35
125) Cyclohexanone	7.523	55	806	1.0100834	ppb #	38

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 08.D
Acq On : 1 May 2015 9:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



V818E01O.M Sun May 03 16:08:38 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 08.D
Acq On : 1 May 2015 9:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

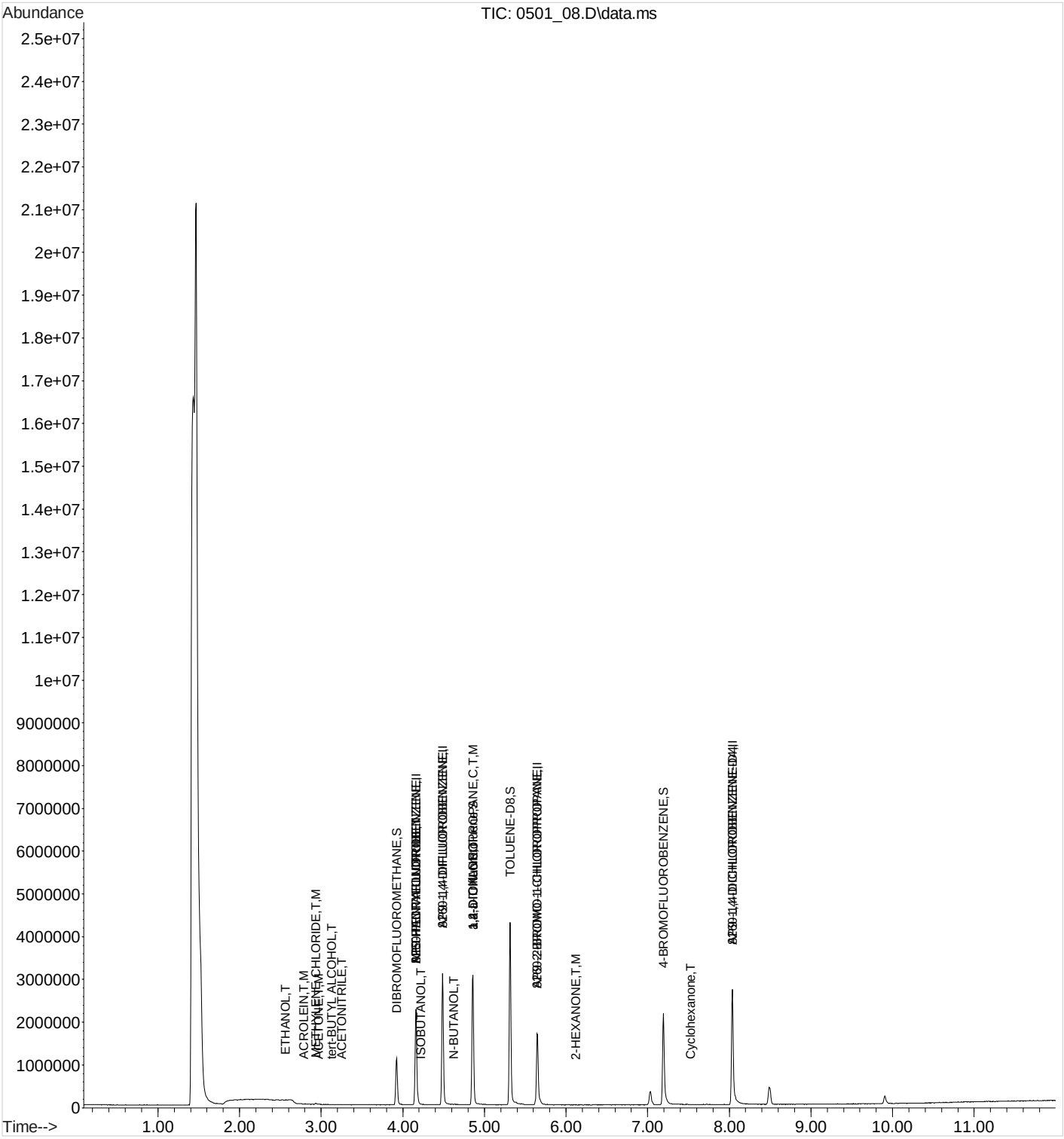
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	1141568	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1921836	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.643	79	294926	40.0000000	ppb	-0.01
84) 8260-1,4-DICHLOROBENZE...	8.040	152	731070	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	1141568	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1921836	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.643	79	294926	40.0000000	ppb	#-0.01
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	731070	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	541638	38.9422365	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.36%			
46) a,a,a-Trifluorotoluene	4.858	146	1051580	41.0087183	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.52%			
50) TOLUENE-D8	5.314	98	2357644	40.9095362	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.27%			
68) 4-BROMOFLUOROBENZENE	7.194	95	779829	38.8565520	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.14%			
Target Compounds						Qvalue
3) PROPENE	1.609	41	546	Below Cal	#	1
7) 1,3-BUTADIENE	1.901	39	2222	Below Cal		92
9) CHLOROETHANE	2.187	66	961	Below Cal	#	1
13) ACROLEIN	2.783	56	1415	0.5802709	ppb	88
16) ACETONE	2.966	43	6990	1.0582498	ppb #	73
19) METHYLENE CHLORIDE	2.936	84	8926	0.4121224	ppb	96
43) 1,2-DICHLOROPROPANE	4.858	62	19220	1.2620024	ppb #	5
57) 2-HEXANONE	6.117	58	747	1.6213233	ppb #	62
97) ETHANOL	2.558	45	2199	17.6256529	ppb #	41
101) ACETONITRILE	3.252	41	1415	0.7139769	ppb #	36
103) tert-BUTYL ALCOHOL	3.130	59	569	0.3309262	ppb #	1
108) METHACRYLONITRILE	4.164	67	4681	0.5778605	ppb #	3
111) ISOBUTANOL	4.219	43	805	0.7319929	ppb #	75
115) N-BUTANOL	4.621	56	832	1.6697839	ppb #	1
116) Methyl Cyclohexane	4.487	83	23614	Below Cal	#	45
119) 1,4-DIOXANE	4.858	88	13626	104.2418217	ppb #	35
125) Cyclohexanone	7.523	55	806	1.0100834	ppb #	38

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 08.D
Acq On : 1 May 2015 9:12 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:11 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



V818E01O.M Sun May 03 16:08:38 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

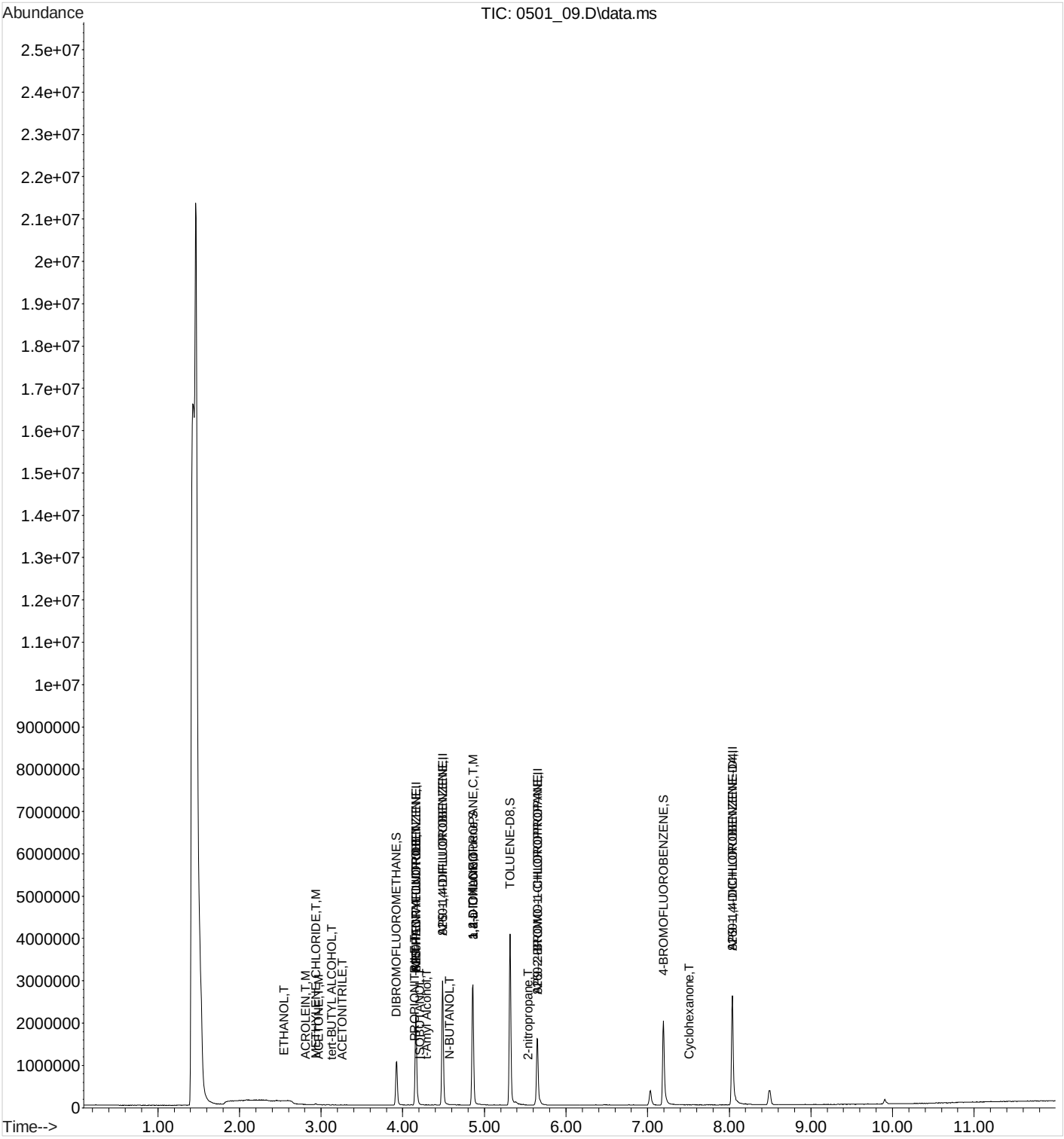
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	1077865	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1809117	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	279994	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	709291	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1077865	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1809117	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	279994	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	709291	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	518039	39.4467872	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.62%			
46) a,a,a-Trifluorotoluene	4.858	146	997056	41.3050449	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.26%			
50) TOLUENE-D8	5.314	98	2261522	41.6866326	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.22%			
68) 4-BROMOFLUOROBENZENE	7.194	95	744999	39.1007335	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.75%			
Target Compounds						Qvalue
7) 1,3-BUTADIENE	1.865	39	1483	Below Cal	#	4
9) CHLOROETHANE	2.175	66	845	Below Cal	#	12
13) ACROLEIN	2.808	56	2267	0.9846078	ppb #	77
16) ACETONE	2.966	43	5289	0.8480511	ppb #	43
19) METHYLENE CHLORIDE	2.936	84	9099	0.4449390	ppb	87
43) 1,2-DICHLOROPROPANE	4.858	62	18921	1.3197770	ppb #	22
97) ETHANOL	2.546	45	1513	12.8438826	ppb #	63
101) ACETONITRILE	3.258	41	1937	1.0351296	ppb #	36
103) tert-BUTYL ALCOHOL	3.130	59	1736	1.0693159	ppb #	1
106) PROPIONITRILE	4.146	54	863	0.3671541	ppb #	1
108) METHACRYLONITRILE	4.165	67	6410	0.8380691	ppb #	1
111) ISOBUTANOL	4.207	43	1610	1.5505090	ppb #	75
112) t-Amyl Alcohol	4.292	59	675	0.4079957	ppb #	16
115) N-BUTANOL	4.572	56	1448	3.0871317	ppb #	51
116) Methyl Cyclohexane	4.487	83	22423	Below Cal	#	56
117) 2-nitropropane	5.533	43	2283	0.5424787	ppb	92
119) 1,4-DIOXANE	4.858	88	11675	94.8811996	ppb #	46
125) Cyclohexanone	7.504	55	701	0.9253469	ppb #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

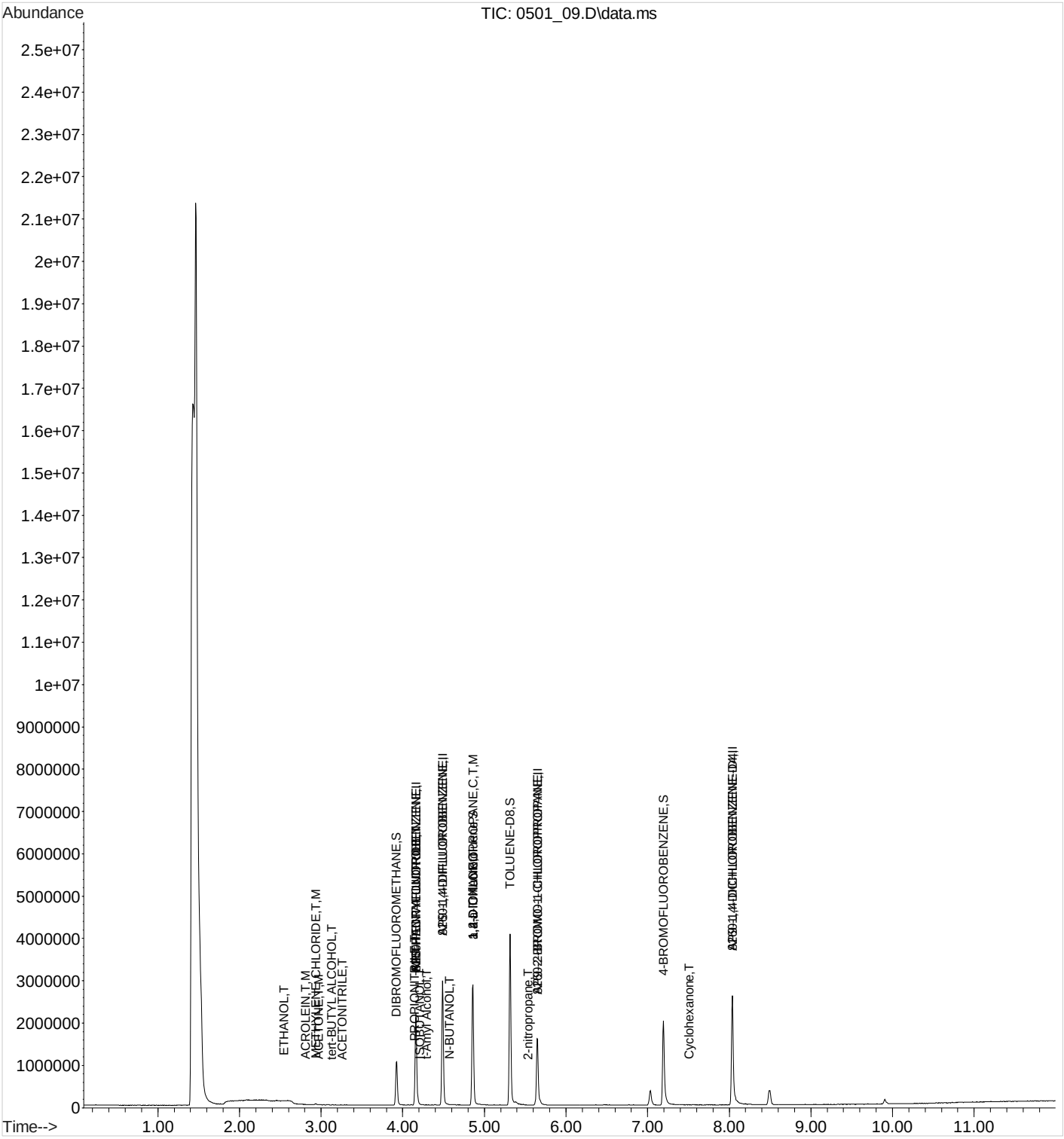
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	1077865	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1809117	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	279994	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	709291	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1077865	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1809117	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	279994	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	709291	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.921	111	518039	39.4467872	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.62%			
46) a,a,a-Trifluorotoluene	4.858	146	997056	41.3050449	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.26%			
50) TOLUENE-D8	5.314	98	2261522	41.6866326	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.22%			
68) 4-BROMOFLUOROBENZENE	7.194	95	744999	39.1007335	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.75%			
Target Compounds						Qvalue
7) 1,3-BUTADIENE	1.865	39	1483	Below Cal	#	4
9) CHLOROETHANE	2.175	66	845	Below Cal	#	12
13) ACROLEIN	2.808	56	2267	0.9846078	ppb #	77
16) ACETONE	2.966	43	5289	0.8480511	ppb #	43
19) METHYLENE CHLORIDE	2.936	84	9099	0.4449390	ppb	87
43) 1,2-DICHLOROPROPANE	4.858	62	18921	1.3197770	ppb #	22
97) ETHANOL	2.546	45	1513	12.8438826	ppb #	63
101) ACETONITRILE	3.258	41	1937	1.0351296	ppb #	36
103) tert-BUTYL ALCOHOL	3.130	59	1736	1.0693159	ppb #	1
106) PROPIONITRILE	4.146	54	863	0.3671541	ppb #	1
108) METHACRYLONITRILE	4.165	67	6410	0.8380691	ppb #	1
111) ISOBUTANOL	4.207	43	1610	1.5505090	ppb #	75
112) t-Amyl Alcohol	4.292	59	675	0.4079957	ppb #	16
115) N-BUTANOL	4.572	56	1448	3.0871317	ppb #	51
116) Methyl Cyclohexane	4.487	83	22423	Below Cal	#	56
117) 2-nitropropane	5.533	43	2283	0.5424787	ppb	92
119) 1,4-DIOXANE	4.858	88	11675	94.8811996	ppb #	46
125) Cyclohexanone	7.504	55	701	0.9253469	ppb #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 09.D
Acq On : 1 May 2015 9:32 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:15 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:21 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

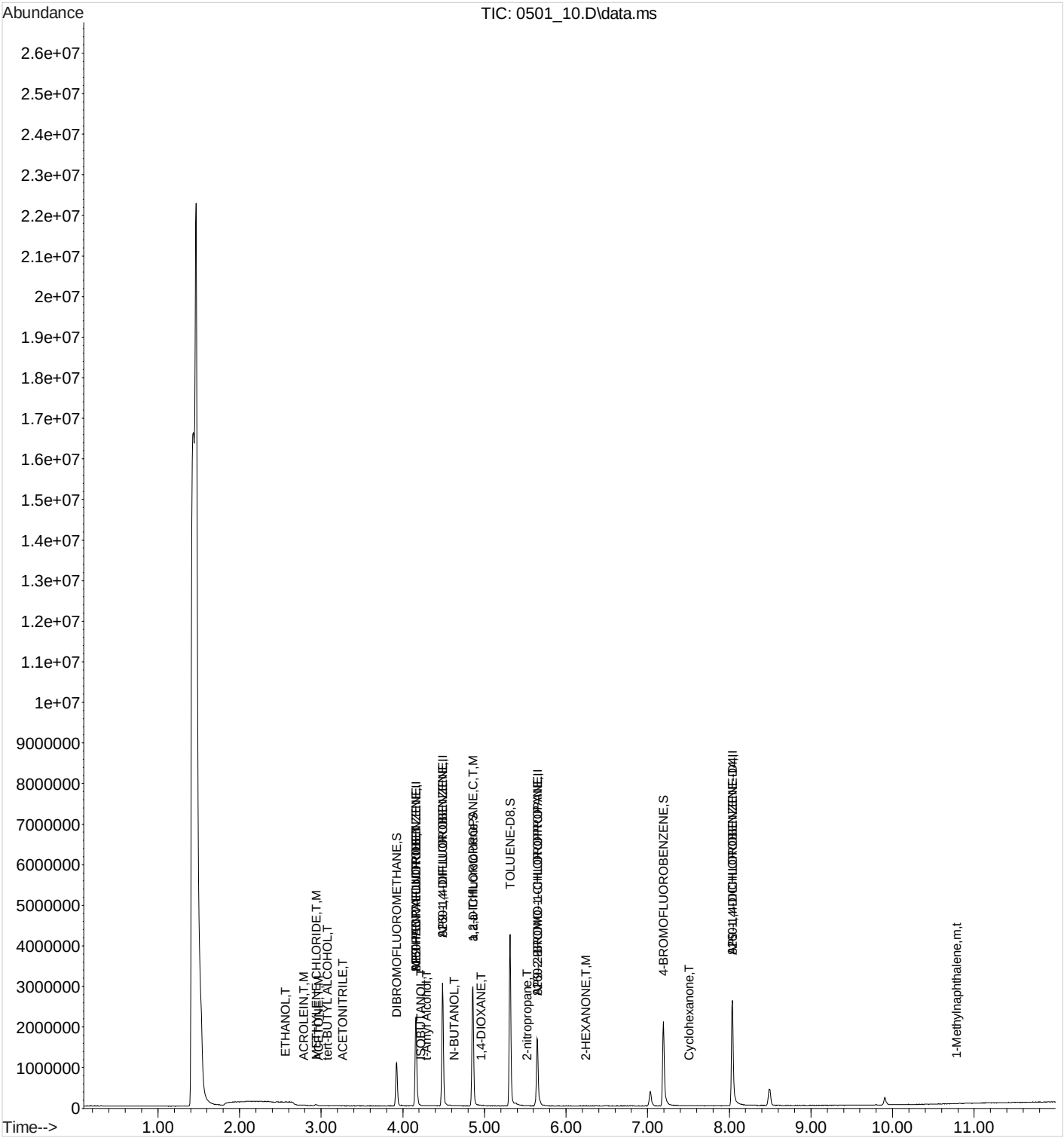
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.165	168	1128365	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	1902207	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	290014	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	725734	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.165	168	1128365	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	1902207	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	290014	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	725734	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	536518	39.0254789	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.56%			
46) a,a,a-Trifluorotoluene	4.858	146	1034442	40.7566586	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.89%			
50) TOLUENE-D8	5.314	98	2337372	40.9762975	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.44%			
68) 4-BROMOFLUOROBENZENE	7.194	95	772890	39.1630642	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.91%			
Target Compounds						Qvalue
3) PROPENE	1.591	41	1099	Below Cal	#	35
7) 1,3-BUTADIENE	1.835	39	3463	Below Cal	#	42
13) ACROLEIN	2.784	56	1710	0.7094513	ppb #	1
16) ACETONE	2.972	43	4246	0.6503441	ppb	97
19) METHYLENE CHLORIDE	2.942	84	9643	0.4504366	ppb	97
43) 1,2-DICHLOROPROPANE	4.858	62	18564	1.2315071	ppb #	5
57) 2-HEXANONE	6.245	58	777	1.6279782	ppb	90
94) 1-Methylnaphthalene	10.783	142	1543	0.3740826	ppb #	12
97) ETHANOL	2.558	45	808	6.5521454	ppb #	1
101) ACETONITRILE	3.264	41	1803	0.9203979	ppb #	37
103) tert-BUTYL ALCOHOL	3.076	59	600	0.3530387	ppb #	1
108) METHACRYLONITRILE	4.165	67	4009	0.5006942	ppb #	16
111) ISOBUTANOL	4.219	43	993	0.9135082	ppb #	75
112) t-Amyl Alcohol	4.292	59	536	0.3094792	ppb #	16
115) N-BUTANOL	4.627	56	975	1.9769701	ppb #	60
117) 2-nitropropane	5.521	43	2582	0.5835014	ppb #	17
119) 1,4-DIOXANE	4.961	88	515	3.9805161	ppb #	1
125) Cyclohexanone	7.504	55	661	0.8423988	ppb #	58

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:21 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
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Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.165	168	1128365	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.487	114	1902207	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.649	79	290014	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.040	152	725734	40.0000000	ppb	#	0.00
96)	AP9-PENTAFLUOROBENZENE	4.165	168	1128365	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.487	114	1902207	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.649	79	290014	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.040	152	725734	40.0000000	ppb		0.00
	System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	3.927	111	536518	39.0254789	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 97.56%				
46)	a,a,a-Trifluorotoluene	4.858	146	1034442	40.7566586	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 101.89%				
50)	TOLUENE-D8	5.314	98	2337372	40.9762975	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 102.44%				
68)	4-BROMOFLUOROBENZENE	7.194	95	772890	39.1630642	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 97.91%				
	Target Compounds							Qvalue
3)	PROPENE	1.591	41	1099	Below Cal	#		35
7)	1,3-BUTADIENE	1.835	39	3463	Below Cal	#		42
13)	ACROLEIN	2.784	56	1710	0.7094513	ppb	#	1
16)	ACETONE	2.972	43	4246	0.6503441	ppb		97
19)	METHYLENE CHLORIDE	2.942	84	9643	0.4504366	ppb		97
43)	1,2-DICHLOROPROPANE	4.858	62	18564	1.2315071	ppb	#	5
57)	2-HEXANONE	6.245	58	777	1.6279782	ppb		90
94)	1-Methylnaphthalene	10.783	142	1543	0.3740826	ppb	#	12
97)	ETHANOL	2.558	45	808	6.5521454	ppb	#	1
101)	ACETONITRILE	3.264	41	1803	0.9203979	ppb	#	37
103)	tert-BUTYL ALCOHOL	3.076	59	600	0.3530387	ppb	#	1
108)	METHACRYLONITRILE	4.165	67	4009	0.5006942	ppb	#	16
111)	ISOBUTANOL	4.219	43	993	0.9135082	ppb	#	75
112)	t-Amyl Alcohol	4.292	59	536	0.3094792	ppb	#	16
115)	N-BUTANOL	4.627	56	975	1.9769701	ppb	#	60
117)	2-nitropropane	5.521	43	2582	0.5835014	ppb	#	17
119)	1,4-DIOXANE	4.961	88	515	3.9805161	ppb	#	1
125)	Cyclohexanone	7.504	55	661	0.8423988	ppb	#	58

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 10.D
Acq On : 1 May 2015 9:52 am
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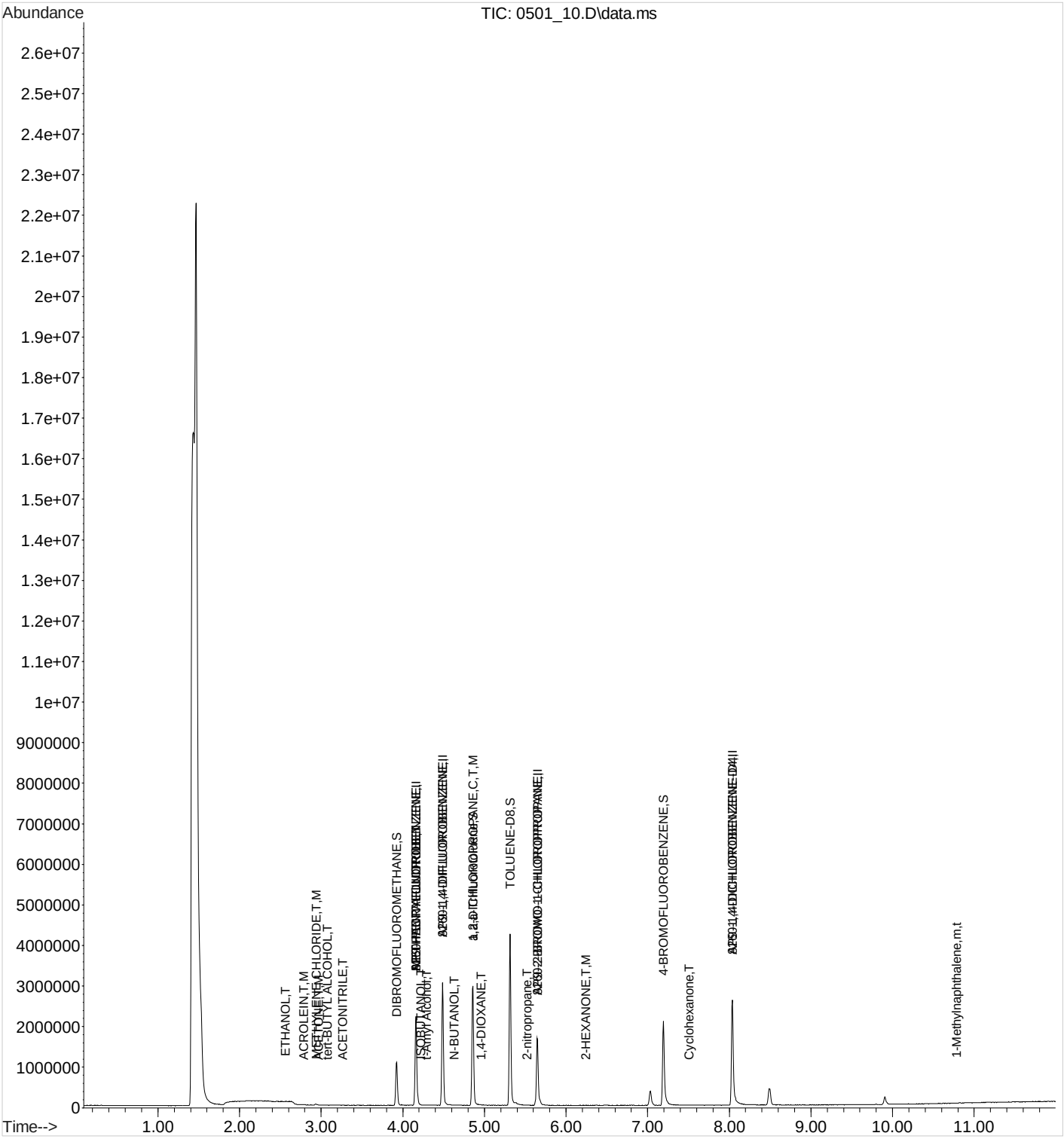
Misc : water IS/SURR15C12445
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:21 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050115\
Data File : 0501 13.D
Acq On : 1 May 2015 6:14 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:35 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
QLast Update : Sat May 02 14:16:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.164	168	307869	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	516026	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	79745	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	202256	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	307869	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	516026	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	79745	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	202256	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.927	111	144581	38.5441803	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.36%				
46) a,a,a-Trifluorotoluene	4.858	146	282278	40.9973372	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.49%				
50) TOLUENE-D8	5.314	98	643824	41.6062170	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.02%				
68) 4-BROMOFLUOROBENZENE	7.194	95	212995	39.2503818	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.13%				
Target Compounds							Qvalue
7) 1,3-BUTADIENE	1.871	39	1797	Below Cal	#		4
16) ACETONE	2.966	43	2217	1.2445505	ppb	#	40
29) 2-BUTANONE (MEK)	4.037	43	947	0.3947683	ppb	#	47
43) 1,2-DICHLOROPROPANE	4.858	62	5037	1.2317526	ppb	#	22
94) 1-Methylnaphthalene	10.765	142	1498	0.5038629	ppb		96
101) ACETONITRILE	3.203	41	600	1.1225735	ppb	#	36
108) METHACRYLONITRILE	4.158	67	1868	0.8550609	ppb	#	1
111) ISOBUTANOL	4.158	43	898	3.0277720	ppb	#	1
117) 2-nitropropane	5.576	43	687	0.5723064	ppb	#	17
119) 1,4-DIOXANE	4.858	88	3211	91.4868456	ppb	#	24
125) Cyclohexanone	7.474	55	560	2.5954928	ppb	#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : 0501 13.D
Acq On : 1 May 2015 6:14 pm
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:35 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS18
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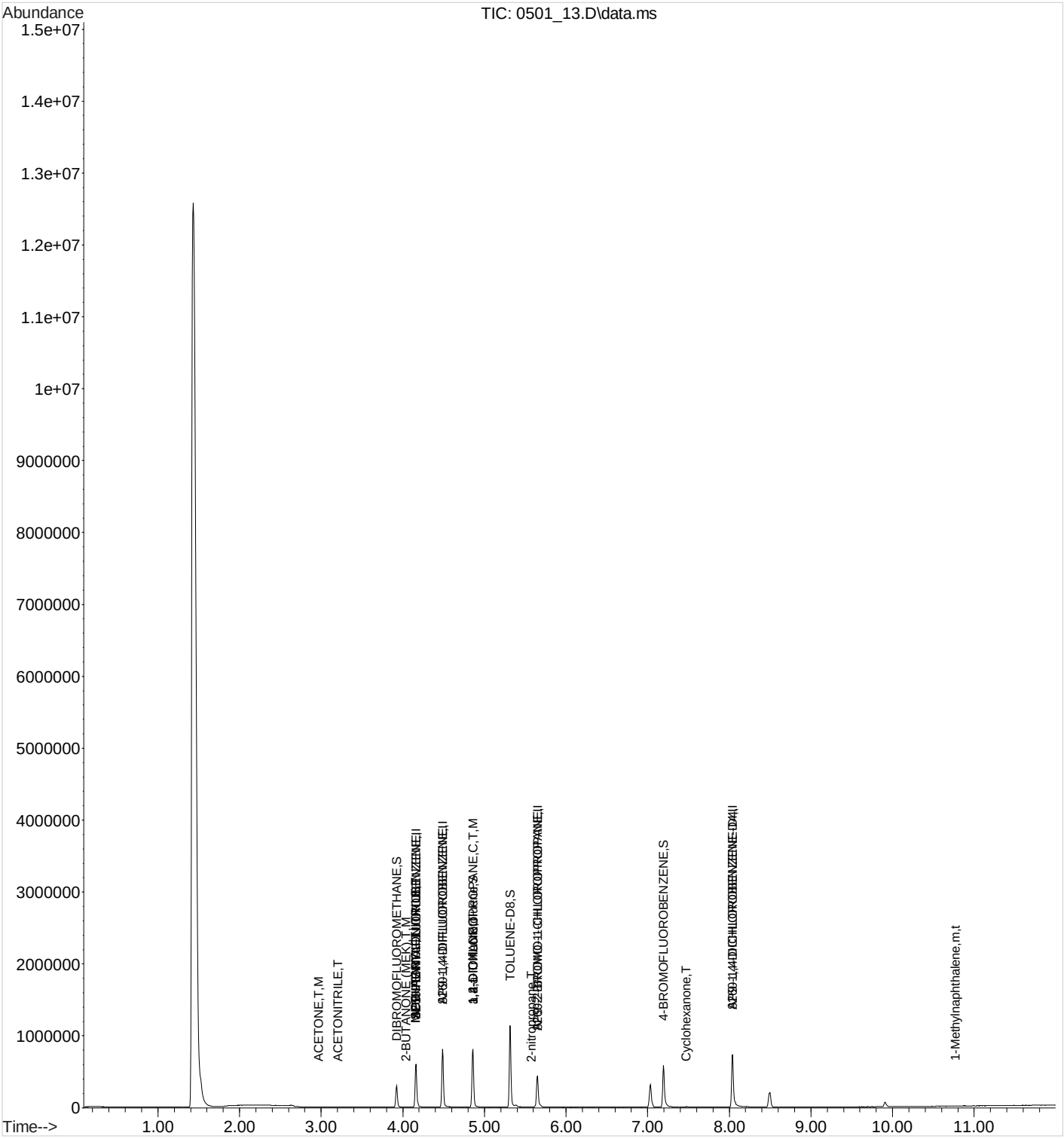

Quantitation Report (QT Reviewed)

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Data File : 0501 13.D
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Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15C12445
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS18

Quant Time: May 02 14:24:35 2015
Quant Method : C:\msdchem\1\methods\V818E01O.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.164	168	307869	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.487	114	516026	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.649	79	79745	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.040	152	202256	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	4.164	168	307869	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.487	114	516026	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.649	79	79745	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.040	152	202256	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.927	111	144581	38.5441803	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.36%			
46) a,a,a-Trifluorotoluene	4.858	146	282278	40.9973372	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.49%			
50) TOLUENE-D8	5.314	98	643824	41.6062170	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.02%			
68) 4-BROMOFLUOROBENZENE	7.194	95	212995	39.2503818	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.13%			
Target Compounds						Qvalue
7) 1,3-BUTADIENE	1.871	39	1797	Below Cal	#	4
16) ACETONE	2.966	43	2217	1.2445505	ppb #	40
29) 2-BUTANONE (MEK)	4.037	43	947	0.3947683	ppb #	47
43) 1,2-DICHLOROPROPANE	4.858	62	5037	1.2317526	ppb #	22
94) 1-Methylnaphthalene	10.765	142	1498	0.5038629	ppb	96
101) ACETONITRILE	3.203	41	600	1.1225735	ppb #	36
108) METHACRYLONITRILE	4.158	67	1868	0.8550609	ppb #	1
111) ISOBUTANOL	4.158	43	898	3.0277720	ppb #	1
117) 2-nitropropane	5.576	43	687	0.5723064	ppb #	17
119) 1,4-DIOXANE	4.858	88	3211	91.4868456	ppb #	24
125) Cyclohexanone	7.474	55	560	2.5954928	ppb #	1

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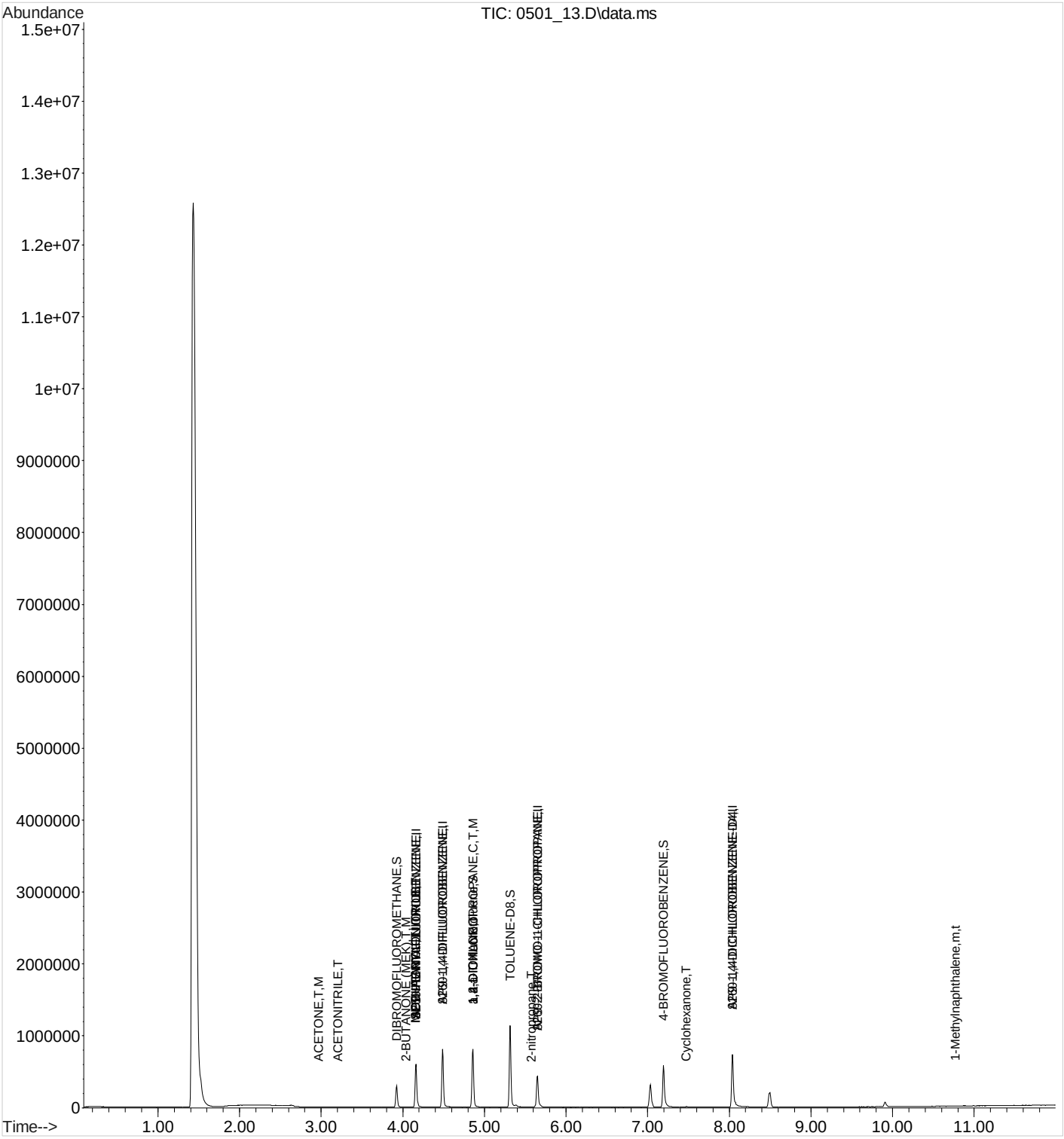

Semi-Volatiles by Method 8270C

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

Quality Control Summary
SDG: L767115

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Workgroup: **WG791571**
Description: **SVOCs by Method 8270C (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 1.25x	05/21/2015	05/27/2015	05/27/2015
L767115-05 1x	05/21/2015	05/27/2015	05/27/2015
L767115-09 1x	05/21/2015	05/27/2015	05/27/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Workgroup: **WG791778**
Description: **SVOCs by Method 8270C (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-07 1x	05/21/2015	05/27/2015	05/28/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS23	LCS WG791571	LCS WG791571	0526_38.D	5/27/2015	5:44 PM
BNAMS23	LCSD WG791571	LCSD WG791571	0526_39.D	5/27/2015	6:07 PM
BNAMS23	Blank WG791571	Blank WG791571	0526_40.D	5/27/2015	6:31 PM
BNAMS23	H-SS059-MW52-DT01	L767115-02	0526_47.D	5/27/2015	9:15 PM
BNAMS23	H-SS059-MW52-NT01	L767115-05	0526_48.D	5/27/2015	9:38 PM
BNAMS23	H-SS059-MW50-NT01	L767115-09	0526_50.D	5/27/2015	10:25 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS19	Blank WG791778	Blank WG791778	0528_05.D	5/28/2015	3:12 PM
BNAMS19	LCS WG791778	LCS WG791778	0528_06.D	5/28/2015	3:35 PM
BNAMS19	LCSD WG791778	LCSD WG791778	0528_07.D	5/28/2015	3:59 PM
BNAMS19	H-SS059-MW51-NT01	L767115-07	0528_12.D	5/28/2015	6:19 PM
BNAMS19	MS WG791778	MS WG791778	0528_13.D	5/28/2015	6:42 PM
BNAMS19	MSD WG791778	MSD WG791778	0528_14.D	5/28/2015	7:05 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 10.0	< 0.355	
2,4,5-Trichlorophenol	95-95-4	< 10.0	< 0.236	
2,4,6-Trichlorophenol	88-06-2	< 10.0	< 0.297	
2,4-Dichlorophenol	120-83-2	< 10.0	< 0.284	
2,4-Dimethylphenol	105-67-9	< 10.0	< 0.624	
2,4-Dinitrophenol	51-28-5	< 10.0	< 3.25	
2,4-Dinitrotoluene	121-14-2	< 10.0	< 1.65	
2,6-Dinitrotoluene	606-20-2	< 10.0	< 0.279	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Chlorophenol	95-57-8	< 10.0	< 0.283	
2-Methylphenol	95-48-7	< 10.0	< 0.312	
2-Nitroaniline	88-74-4	< 10.0	< 1.9	
2-Nitrophenol	88-75-5	< 10.0	< 0.320	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 10.0	< 0.266	
3,3-Dichlorobenzidine	91-94-1	< 10.0	< 2.02	
3-Nitroaniline	99-09-2	< 10.0	< 0.308	
4,6-Dinitro-2-methylphenol	534-52-1	< 10.0	< 2.62	
4-Bromophenyl-phenylether	101-55-3	< 10.0	< 0.335	
4-Chloro-3-methylphenol	59-50-7	< 10.0	< 0.263	
4-Chloroaniline	106-47-8	< 10.0	< 0.382	
4-Chlorophenyl-phenylether	7005-72-3	< 10.0	< 0.303	
4-Nitroaniline	100-01-6	< 10.0	< 0.349	
4-Nitrophenol	100-02-7	< 10.0	< 2.01	
Azobenzene	103-33-3	< 10.0	< 0.318	
Benzoic Acid	65-85-0	< 10.0	< 0.440	
Benzyl Alcohol	100-51-6	< 10.0	< 0.393	
Benzylbutyl phthalate	85-68-7	< 3.00	< 0.275	
Bis(2-chlorethoxy)methane	111-91-1	< 10.0	< 0.329	
Bis(2-chloroethyl)ether	111-44-4	< 10.0	< 1.62	
Bis(2-chloroisopropyl)ether	39638-32-9	< 10.0	< 0.445	
Bis(2-ethylhexyl)phthalate	117-81-7	< 3.00	< 0.709	
Carbazole	86-74-8	< 10.0	< 0.260	
Dibenzofuran	132-64-9	< 10.0	< 0.338	
Diethyl phthalate	84-66-2	< 3.00	< 0.282	
Dimethyl phthalate	131-11-3	< 3.00	< 0.283	
Di-n-butyl phthalate	84-74-2	< 3.00	< 0.266	
Di-n-octyl phthalate	117-84-0	< 3.00	< 0.278	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Hexachloro-1,3-butadiene	87-68-3	< 10.0	< 0.329	
Hexachlorobenzene	118-74-1	< 1.00	< 0.341	
Hexachloroethane	67-72-1	< 10.0	< 0.365	
Isophorone	78-59-1	< 10.0	< 0.272	
Nitrobenzene	98-95-3	< 10.0	< 0.367	
n-Nitrosodimethylamine	62-75-9	< 10.0	< 1.26	
n-Nitrosodi-n-propylamine	621-64-7	< 10.0	< 0.403	
n-Nitrosodiphenylamine	86-30-6	< 10.0	< 0.304	
Pentachlorophenol	87-86-5	< 10.0	< 0.313	
Phenol	108-95-2	< 10.0	< 0.334	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 10.0	< 0.355	
2,4,5-Trichlorophenol	95-95-4	< 10.0	< 0.236	
2,4,6-Trichlorophenol	88-06-2	< 10.0	< 0.297	
2,4-Dichlorophenol	120-83-2	< 10.0	< 0.284	
2,4-Dimethylphenol	105-67-9	< 10.0	< 0.624	
2,4-Dinitrophenol	51-28-5	< 10.0	< 3.25	
2,4-Dinitrotoluene	121-14-2	< 10.0	< 1.65	
2,6-Dinitrotoluene	606-20-2	< 10.0	< 0.279	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Chlorophenol	95-57-8	< 10.0	< 0.283	
2-Methylphenol	95-48-7	< 10.0	< 0.312	
2-Nitroaniline	88-74-4	< 10.0	< 1.9	
2-Nitrophenol	88-75-5	< 10.0	< 0.320	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 10.0	< 0.266	
3,3-Dichlorobenzidine	91-94-1	< 10.0	< 2.02	
3-Nitroaniline	99-09-2	< 10.0	< 0.308	
4,6-Dinitro-2-methylphenol	534-52-1	< 10.0	< 2.62	
4-Bromophenyl-phenylether	101-55-3	< 10.0	< 0.335	
4-Chloro-3-methylphenol	59-50-7	< 10.0	< 0.263	
4-Chloroaniline	106-47-8	< 10.0	< 0.382	
4-Chlorophenyl-phenylether	7005-72-3	< 10.0	< 0.303	
4-Nitroaniline	100-01-6	< 10.0	< 0.349	
4-Nitrophenol	100-02-7	< 10.0	< 2.01	
Acenaphthene	83-32-9	< 0.0500	< 0.0100	
Acenaphthylene	208-96-8	< 0.0500	< 0.00700	
Anthracene	120-12-7	< 0.0500	< 0.00800	
Azobenzene	103-33-3	< 10.0	< 0.318	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.00830	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.00212	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.00227	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Benzoic Acid	65-85-0	< 10.0	< 0.440	
Benzyl Alcohol	100-51-6	< 10.0	< 0.393	
Benzylbutyl phthalate	85-68-7	< 3.00	< 0.275	
Bis(2-chlorethoxy)methane	111-91-1	< 10.0	< 0.329	
Bis(2-chloroethyl)ether	111-44-4	< 10.0	< 1.62	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Bis(2-chloroisopropyl)ether	39638-32-9	< 10.0	< 0.445	
Bis(2-ethylhexyl)phthalate	117-81-7	< 3.00	1.49	
Carbazole	86-74-8	< 10.0	< 0.260	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Dibenzofuran	132-64-9	< 10.0	< 0.338	
Diethyl phthalate	84-66-2	< 3.00	< 0.282	
Dimethyl phthalate	131-11-3	< 3.00	< 0.283	
Di-n-butyl phthalate	84-74-2	< 3.00	0.538	
Di-n-octyl phthalate	117-84-0	< 3.00	1.42	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Hexachloro-1,3-butadiene	87-68-3	< 10.0	< 0.329	
Hexachlorobenzene	118-74-1	< 1.00	< 0.341	
Hexachloroethane	67-72-1	< 10.0	< 0.365	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Isophorone	78-59-1	< 10.0	< 0.272	
Naphthalene	91-20-3	< 0.250	< 0.0120	
Nitrobenzene	98-95-3	< 10.0	< 0.367	
n-Nitrosodimethylamine	62-75-9	< 10.0	< 1.26	
n-Nitrosodi-n-propylamine	621-64-7	< 10.0	< 0.403	
n-Nitrosodiphenylamine	86-30-6	< 10.0	< 0.304	
Pentachlorophenol	87-86-5	< 10.0	< 0.313	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Phenol	108-95-2	< 10.0	< 0.334	
Pyrene	129-00-0	< 0.0500	< 0.0155	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	50	30.760	61.5	22.9 - 96.1	
2,4,5-Trichlorophenol	1	50	40.744	81.5	34.9 - 112	
2,4,6-Trichlorophenol	1	50	40.433	80.9	29.8 - 107	
2,4-Dichlorophenol	1	50	39.661	79.3	31.4 - 103	
2,4-Dimethylphenol	1	50	38.015	76	31.9 - 107	
2,4-Dinitrophenol	1	50	36.247	72.5	24.2 - 128	
2,4-Dinitrotoluene	1	50	42.883	85.8	31.2 - 105	
2,6-Dinitrotoluene	1	50	39.846	79.7	30.6 - 106	
2-Chloronaphthalene	1	50	36.011	72	33.6 - 105	
2-Chlorophenol	1	50	35.380	70.8	26.2 - 91.5	
2-Methylphenol	1	50	32.155	64.3	26.4 - 86.9	
2-Nitroaniline	1	50	39.887	79.8	35.6 - 113	
2-Nitrophenol	1	50	40.524	81	25.9 - 106	
3&4-Methyl Phenol	1	50	34.828	69.7	27.9 - 92	
3,3-Dichlorobenzidine	1	50	40.546	81.1	27.2 - 142	
3-Nitroaniline	1	50	37.981	76	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	50	42.973	85.9	18.4 - 148	
4-Bromophenyl-phenylether	1	50	38.594	77.2	40.7 - 116	
4-Chloro-3-methylphenol	1	50	40.066	80.1	35.7 - 100	
4-Chloroaniline	1	50	33.710	67.4	32 - 104	
4-Chlorophenyl-phenylether	1	50	38.138	76.3	39 - 113	
4-Nitroaniline	1	50	44.864	89.7	35.4 - 124	
4-Nitrophenol	1	50	20.054	40.1	10 - 52.7	
Azobenzene	1	50	38.492	77	37.6 - 111	
Benzoic Acid	1	50	7.3172	14.6	0 - 79.4	
Benzyl Alcohol	1	50	29.230	58.5	30.1 - 89.2	
Benzylbutyl phthalate	1	50	38.161	76.3	31.8 - 123	
Bis(2-chlorethoxy)methane	1	50	33.805	67.6	37.2 - 111	
Bis(2-chloroethyl)ether	1	50	33.440	66.9	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	50	34.187	68.4	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	50	38.885	77.8	36.9 - 134	
Carbazole	1	50	43.585	87.2	49 - 110	
Dibenzofuran	1	50	37.605	75.2	42.4 - 105	
Diethyl phthalate	1	50	40.712	81.4	36.5 - 129	
Dimethyl phthalate	1	50	39.139	78.3	35.3 - 128	
Di-n-butyl phthalate	1	50	41.273	82.5	41.8 - 120	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	50	38.359	76.7	39.7 - 112	
Hexachloro-1,3-butadiene	1	50	28.496	57	16.1 - 104	
Hexachlorobenzene	1	50	40.301	80.6	38.5 - 116	
Hexachloroethane	1	50	27.299	54.6	16.5 - 89.8	
Isophorone	1	50	36.623	73.2	35.4 - 112	
Nitrobenzene	1	50	36.403	72.8	31.4 - 106	
n-Nitrosodimethylamine	1	50	16.001	32	10 - 80.1	
n-Nitrosodi-n-propylamine	1	50	33.045	66.1	33.2 - 106	
n-Nitrosodiphenylamine	1	50	38.016	76	44.4 - 113	
Pentachlorophenol	1	50	38.871	77.7	10 - 97.4	
Phenol	1	50	17.814	35.6	10 - 57.9	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	50	31.210	62.4	22.9 - 96.1	
2,4,5-Trichlorophenol	1	50	38.996	78	34.9 - 112	
2,4,6-Trichlorophenol	1	50	38.732	77.5	29.8 - 107	
2,4-Dichlorophenol	1	50	37.717	75.4	31.4 - 103	
2,4-Dimethylphenol	1	50	36.685	73.4	31.9 - 107	
2,4-Dinitrophenol	1	50	36.775	73.6	24.2 - 128	
2,4-Dinitrotoluene	1	50	42.168	84.3	31.2 - 105	
2,6-Dinitrotoluene	1	50	39.412	78.8	30.6 - 106	
2-Chloronaphthalene	1	50	35.475	71	33.6 - 105	
2-Chlorophenol	1	50	30.703	61.4	26.2 - 91.5	
2-Methylphenol	1	50	30.658	61.3	26.4 - 86.9	
2-Nitroaniline	1	50	39.551	79.1	35.6 - 113	
2-Nitrophenol	1	50	38.764	77.5	25.9 - 106	
3&4-Methyl Phenol	1	50	33.880	67.8	27.9 - 92	
3,3-Dichlorobenzidine	1	50	42.255	84.5	27.2 - 142	
3-Nitroaniline	1	50	36.676	73.4	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	50	40.656	81.3	18.4 - 148	
4-Bromophenyl-phenylether	1	50	38.602	77.2	40.7 - 116	
4-Chloro-3-methylphenol	1	50	38.695	77.4	35.7 - 100	
4-Chloroaniline	1	50	32.081	64.2	32 - 104	
4-Chlorophenyl-phenylether	1	50	37.225	74.5	39 - 113	
4-Nitroaniline	1	50	43.740	87.5	35.4 - 124	
4-Nitrophenol	1	50	12.653	25.3	10 - 52.7	
Azobenzene	1	50	37.387	74.8	37.6 - 111	
Benzoic Acid	1	50	11.531	23.1	0 - 79.4	
Benzyl Alcohol	1	50	28.868	57.7	30.1 - 89.2	
Benzylbutyl phthalate	1	50	38.118	76.2	31.8 - 123	
Bis(2-chlorethoxy)methane	1	50	33.837	67.7	37.2 - 111	
Bis(2-chloroethyl)ether	1	50	31.457	62.9	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	50	34.646	69.3	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	50	37.224	74.4	36.9 - 134	
Carbazole	1	50	43.492	87	49 - 110	
Dibenzofuran	1	50	37.057	74.1	42.4 - 105	
Diethyl phthalate	1	50	40.726	81.5	36.5 - 129	
Dimethyl phthalate	1	50	38.895	77.8	35.3 - 128	
Di-n-butyl phthalate	1	50	40.861	81.7	41.8 - 120	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	50	37.240	74.5	39.7 - 112	
Hexachloro-1,3-butadiene	1	50	31.376	62.8	16.1 - 104	
Hexachlorobenzene	1	50	38.964	77.9	38.5 - 116	
Hexachloroethane	1	50	29.445	58.9	16.5 - 89.8	
Isophorone	1	50	36.875	73.8	35.4 - 112	
Nitrobenzene	1	50	35.375	70.8	31.4 - 106	
n-Nitrosodimethylamine	1	50	17.115	34.2	10 - 80.1	
n-Nitrosodi-n-propylamine	1	50	32.561	65.1	33.2 - 106	
n-Nitrosodiphenylamine	1	50	37.886	75.8	44.4 - 113	
Pentachlorophenol	1	50	37.782	75.6	10 - 97.4	
Phenol	1	50	15.421	30.8	10 - 57.9	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

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	50	30.760	61.5	31.210	62.4	22.9 - 96.1		1.45	27.5	
2,4,5-Trichlorophenol	1	50	40.744	81.5	38.996	78	34.9 - 112		4.38	23.9	
2,4,6-Trichlorophenol	1	50	40.433	80.9	38.732	77.5	29.8 - 107		4.3	24.1	
2,4-Dichlorophenol	1	50	39.661	79.3	37.717	75.4	31.4 - 103		5.03	24.9	
2,4-Dimethylphenol	1	50	38.015	76	36.685	73.4	31.9 - 107		3.56	25.7	
2,4-Dinitrophenol	1	50	36.247	72.5	36.775	73.6	24.2 - 128		1.45	20.5	
2,4-Dinitrotoluene	1	50	42.883	85.8	42.168	84.3	31.2 - 105		1.68	22	
2,6-Dinitrotoluene	1	50	39.846	79.7	39.412	78.8	30.6 - 106		1.09	23.1	
2-Chloronaphthalene	1	50	36.011	72	35.475	71	33.6 - 105		1.5	23	
2-Chlorophenol	1	50	35.380	70.8	30.703	61.4	26.2 - 91.5		14.2	26.5	
2-Methylphenol	1	50	32.155	64.3	30.658	61.3	26.4 - 86.9		4.77	26.5	
2-Nitroaniline	1	50	39.887	79.8	39.551	79.1	35.6 - 113		0.85	20.9	
2-Nitrophenol	1	50	40.524	81	38.764	77.5	25.9 - 106		4.44	26.9	
3&4-Methyl Phenol	1	50	34.828	69.7	33.880	67.8	27.9 - 92		2.76	27	
3,3-Dichlorobenzidine	1	50	40.546	81.1	42.255	84.5	27.2 - 142		4.13	22.3	
3-Nitroaniline	1	50	37.981	76	36.676	73.4	33.6 - 103		3.5	21.8	
4,6-Dinitro-2-methylphenol	1	50	42.973	85.9	40.656	81.3	18.4 - 148		5.54	24.4	
4-Bromophenyl-phenylether	1	50	38.594	77.2	38.602	77.2	40.7 - 116		0.02	21	
4-Chloro-3-methylphenol	1	50	40.066	80.1	38.695	77.4	35.7 - 100		3.48	22.9	
4-Chloroaniline	1	50	33.710	67.4	32.081	64.2	32 - 104		4.95	26.4	
4-Chlorophenyl-phenylether	1	50	38.138	76.3	37.225	74.5	39 - 113		2.42	20.9	
4-Nitroaniline	1	50	44.864	89.7	43.740	87.5	35.4 - 124		2.54	23.1	
4-Nitrophenol	1	50	20.054	40.1	12.653	25.3	10 - 52.7		45.3	40	J3
Azobenzene	1	50	38.492	77	37.387	74.8	37.6 - 111		2.91	21.1	
Benzoic Acid	1	50	7.3172	14.6	11.531	23.1	0 - 79.4		44.7	31.1	J3
Benzyl Alcohol	1	50	29.230	58.5	28.868	57.7	30.1 - 89.2		1.25	24.8	
Benzylbutyl phthalate	1	50	38.161	76.3	38.118	76.2	31.8 - 123		0.11	20.7	
Bis(2-chlorethoxy)methane	1	50	33.805	67.6	33.837	67.7	37.2 - 111		0.1	24.1	
Bis(2-chloroethyl)ether	1	50	33.440	66.9	31.457	62.9	22.6 - 108		6.11	27.9	
Bis(2-chloroisopropyl)ether	1	50	34.187	68.4	34.646	69.3	32.9 - 100		1.33	25.1	
Bis(2-ethylhexyl)phthalate	1	50	38.885	77.8	37.224	74.4	36.9 - 134		4.37	23.6	
Carbazole	1	50	43.585	87.2	43.492	87	49 - 110		0.21	20	
Dibenzofuran	1	50	37.605	75.2	37.057	74.1	42.4 - 105		1.47	20	
Diethyl phthalate	1	50	40.712	81.4	40.726	81.5	36.5 - 129		0.04	20	
Dimethyl phthalate	1	50	39.139	78.3	38.895	77.8	35.3 - 128		0.62	20.8	
Di-n-butyl phthalate	1	50	41.273	82.5	40.861	81.7	41.8 - 120		1	20.2	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

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	50	38.359	76.7	37.240	74.5	39.7 - 112		2.96	21.1	
Hexachloro-1,3-butadiene	1	50	28.496	57	31.376	62.8	16.1 - 104		9.62	31.2	
Hexachlorobenzene	1	50	40.301	80.6	38.964	77.9	38.5 - 116		3.37	20.1	
Hexachloroethane	1	50	27.299	54.6	29.445	58.9	16.5 - 89.8		7.56	30.7	
Isophorone	1	50	36.623	73.2	36.875	73.8	35.4 - 112		0.68	21.5	
Nitrobenzene	1	50	36.403	72.8	35.375	70.8	31.4 - 106		2.86	25.7	
n-Nitrosodimethylamine	1	50	16.001	32	17.115	34.2	10 - 80.1		6.73	37.5	
n-Nitrosodi-n-propylamine	1	50	33.045	66.1	32.561	65.1	33.2 - 106		1.47	23.7	
n-Nitrosodiphenylamine	1	50	38.016	76	37.886	75.8	44.4 - 113		0.34	20	
Pentachlorophenol	1	50	38.871	77.7	37.782	75.6	10 - 97.4		2.84	35.1	
Phenol	1	50	17.814	35.6	15.421	30.8	10 - 57.9		14.4	35	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	50	33.023	66	22.9 - 96.1	
2,4,5-Trichlorophenol	1	50	41.102	82.2	34.9 - 112	
2,4,6-Trichlorophenol	1	50	39.700	79.4	29.8 - 107	
2,4-Dichlorophenol	1	50	37.068	74.1	31.4 - 103	
2,4-Dimethylphenol	1	50	36.082	72.2	31.9 - 107	
2,4-Dinitrophenol	1	50	30.313	60.6	24.2 - 128	
2,4-Dinitrotoluene	1	50	40.462	80.9	31.2 - 105	
2,6-Dinitrotoluene	1	50	38.169	76.3	30.6 - 106	
2-Chloronaphthalene	1	50	38.397	76.8	33.6 - 105	
2-Chlorophenol	1	50	31.702	63.4	26.2 - 91.5	
2-Methylphenol	1	50	27.984	56	26.4 - 86.9	
2-Nitroaniline	1	50	40.281	80.6	35.6 - 113	
2-Nitrophenol	1	50	38.552	77.1	25.9 - 106	
3&4-Methyl Phenol	1	50	29.022	58	27.9 - 92	
3,3-Dichlorobenzidine	1	50	43.083	86.2	27.2 - 142	
3-Nitroaniline	1	50	37.055	74.1	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	50	39.596	79.2	18.4 - 148	
4-Bromophenyl-phenylether	1	50	37.962	75.9	40.7 - 116	
4-Chloro-3-methylphenol	1	50	35.882	71.8	35.7 - 100	
4-Chloroaniline	1	50	31.807	63.6	32 - 104	
4-Chlorophenyl-phenylether	1	50	37.481	75	39 - 113	
4-Nitroaniline	1	50	43.732	87.5	35.4 - 124	
4-Nitrophenol	1	50	16.437	32.9	10 - 52.7	
Acenaphthene	1	50	38.222	76.4	38.7 - 109	
Acenaphthylene	1	50	38.020	76	36 - 106	
Anthracene	1	50	39.104	78.2	43.6 - 113	
Azobenzene	1	50	39.032	78.1	37.6 - 111	
Benzo(a)anthracene	1	50	39.683	79.4	51.2 - 112	
Benzo(a)pyrene	1	50	37.663	75.3	45.6 - 106	
Benzo(b)fluoranthene	1	50	36.277	72.6	47.6 - 111	
Benzo(g,h,i)perylene	1	50	38.750	77.5	45.2 - 117	
Benzo(k)fluoranthene	1	50	38.386	76.8	49.4 - 114	
Benzoic Acid	1	50	14.850	29.7	0 - 79.4	
Benzyl Alcohol	1	50	29.256	58.5	30.1 - 89.2	
Benzylbutyl phthalate	1	50	38.352	76.7	31.8 - 123	
Bis(2-chlorethoxy)methane	1	50	35.297	70.6	37.2 - 111	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chloroethyl)ether	1	50	32.994	66	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	50	34.283	68.6	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	50	37.025	74.1	36.9 - 134	
Carbazole	1	50	39.265	78.5	49 - 110	
Chrysene	1	50	36.705	73.4	54.6 - 120	
Dibenz(a,h)anthracene	1	50	38.017	76	42.8 - 118	
Dibenzofuran	1	50	38.365	76.7	42.4 - 105	
Diethyl phthalate	1	50	39.811	79.6	36.5 - 129	
Dimethyl phthalate	1	50	38.105	76.2	35.3 - 128	
Di-n-butyl phthalate	1	50	39.346	78.7	41.8 - 120	
Di-n-octyl phthalate	1	50	37.223	74.4	39.7 - 112	
Fluoranthene	1	50	38.718	77.4	45.9 - 115	
Fluorene	1	50	38.255	76.5	41 - 112	
Hexachloro-1,3-butadiene	1	50	32.154	64.3	16.1 - 104	
Hexachlorobenzene	1	50	38.886	77.8	38.5 - 116	
Hexachloroethane	1	50	32.444	64.9	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	50	38.755	77.5	45 - 116	
Isophorone	1	50	37.944	75.9	35.4 - 112	
Naphthalene	1	50	33.619	67.2	32.2 - 101	
Nitrobenzene	1	50	34.672	69.3	31.4 - 106	
n-Nitrosodimethylamine	1	50	20.523	41	10 - 80.1	
n-Nitrosodi-n-propylamine	1	50	37.076	74.2	33.2 - 106	
n-Nitrosodiphenylamine	1	50	38.945	77.9	44.4 - 113	
Pentachlorophenol	1	50	40.557	81.1	10 - 97.4	
Phenanthrene	1	50	37.288	74.6	46.4 - 113	
Phenol	1	50	14.854	29.7	10 - 57.9	
Pyrene	1	50	40.176	80.4	46.3 - 117	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	50	31.806	63.6	22.9 - 96.1	
2,4,5-Trichlorophenol	1	50	39.019	78	34.9 - 112	
2,4,6-Trichlorophenol	1	50	37.649	75.3	29.8 - 107	
2,4-Dichlorophenol	1	50	34.903	69.8	31.4 - 103	
2,4-Dimethylphenol	1	50	34.173	68.3	31.9 - 107	
2,4-Dinitrophenol	1	50	29.014	58	24.2 - 128	
2,4-Dinitrotoluene	1	50	37.980	76	31.2 - 105	
2,6-Dinitrotoluene	1	50	36.701	73.4	30.6 - 106	
2-Chloronaphthalene	1	50	36.827	73.7	33.6 - 105	
2-Chlorophenol	1	50	30.656	61.3	26.2 - 91.5	
2-Methylphenol	1	50	26.796	53.6	26.4 - 86.9	
2-Nitroaniline	1	50	38.768	77.5	35.6 - 113	
2-Nitrophenol	1	50	36.274	72.5	25.9 - 106	
3&4-Methyl Phenol	1	50	28.031	56.1	27.9 - 92	
3,3-Dichlorobenzidine	1	50	41.445	82.9	27.2 - 142	
3-Nitroaniline	1	50	35.055	70.1	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	50	37.330	74.7	18.4 - 148	
4-Bromophenyl-phenylether	1	50	35.980	72	40.7 - 116	
4-Chloro-3-methylphenol	1	50	34.365	68.7	35.7 - 100	
4-Chloroaniline	1	50	30.448	60.9	32 - 104	
4-Chlorophenyl-phenylether	1	50	35.130	70.3	39 - 113	
4-Nitroaniline	1	50	41.052	82.1	35.4 - 124	
4-Nitrophenol	1	50	15.461	30.9	10 - 52.7	
Acenaphthene	1	50	35.974	71.9	38.7 - 109	
Acenaphthylene	1	50	35.972	71.9	36 - 106	
Anthracene	1	50	36.566	73.1	43.6 - 113	
Azobenzene	1	50	36.897	73.8	37.6 - 111	
Benzo(a)anthracene	1	50	37.662	75.3	51.2 - 112	
Benzo(a)pyrene	1	50	35.534	71.1	45.6 - 106	
Benzo(b)fluoranthene	1	50	34.910	69.8	47.6 - 111	
Benzo(g,h,i)perylene	1	50	36.487	73	45.2 - 117	
Benzo(k)fluoranthene	1	50	35.603	71.2	49.4 - 114	
Benzoic Acid	1	50	15.012	30	0 - 79.4	
Benzyl Alcohol	1	50	28.231	56.5	30.1 - 89.2	
Benzylbutyl phthalate	1	50	37.178	74.4	31.8 - 123	
Bis(2-chlorethoxy)methane	1	50	33.761	67.5	37.2 - 111	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chloroethyl)ether	1	50	31.641	63.3	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	50	32.950	65.9	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	50	35.604	71.2	36.9 - 134	
Carbazole	1	50	36.694	73.4	49 - 110	
Chrysene	1	50	35.366	70.7	54.6 - 120	
Dibenz(a,h)anthracene	1	50	35.738	71.5	42.8 - 118	
Dibenzofuran	1	50	36.772	73.5	42.4 - 105	
Diethyl phthalate	1	50	37.162	74.3	36.5 - 129	
Dimethyl phthalate	1	50	36.005	72	35.3 - 128	
Di-n-butyl phthalate	1	50	36.183	72.4	41.8 - 120	
Di-n-octyl phthalate	1	50	35.963	71.9	39.7 - 112	
Fluoranthene	1	50	35.775	71.6	45.9 - 115	
Fluorene	1	50	36.211	72.4	41 - 112	
Hexachloro-1,3-butadiene	1	50	31.263	62.5	16.1 - 104	
Hexachlorobenzene	1	50	36.434	72.9	38.5 - 116	
Hexachloroethane	1	50	31.303	62.6	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	50	36.471	72.9	45 - 116	
Isophorone	1	50	35.647	71.3	35.4 - 112	
Naphthalene	1	50	32.263	64.5	32.2 - 101	
Nitrobenzene	1	50	33.881	67.8	31.4 - 106	
n-Nitrosodimethylamine	1	50	17.658	35.3	10 - 80.1	
n-Nitrosodi-n-propylamine	1	50	35.353	70.7	33.2 - 106	
n-Nitrosodiphenylamine	1	50	35.974	71.9	44.4 - 113	
Pentachlorophenol	1	50	38.127	76.3	10 - 97.4	
Phenanthrene	1	50	35.158	70.3	46.4 - 113	
Phenol	1	50	14.938	29.9	10 - 57.9	
Pyrene	1	50	37.204	74.4	46.3 - 117	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	50	33.023	66	31.806	63.6	22.9 - 96.1		3.75	27.5	
2,4,5-Trichlorophenol	1	50	41.102	82.2	39.019	78	34.9 - 112		5.2	23.9	
2,4,6-Trichlorophenol	1	50	39.700	79.4	37.649	75.3	29.8 - 107		5.3	24.1	
2,4-Dichlorophenol	1	50	37.068	74.1	34.903	69.8	31.4 - 103		6.02	24.9	
2,4-Dimethylphenol	1	50	36.082	72.2	34.173	68.3	31.9 - 107		5.43	25.7	
2,4-Dinitrophenol	1	50	30.313	60.6	29.014	58	24.2 - 128		4.38	20.5	
2,4-Dinitrotoluene	1	50	40.462	80.9	37.980	76	31.2 - 105		6.33	22	
2,6-Dinitrotoluene	1	50	38.169	76.3	36.701	73.4	30.6 - 106		3.92	23.1	
2-Chloronaphthalene	1	50	38.397	76.8	36.827	73.7	33.6 - 105		4.17	23	
2-Chlorophenol	1	50	31.702	63.4	30.656	61.3	26.2 - 91.5		3.35	26.5	
2-Methylphenol	1	50	27.984	56	26.796	53.6	26.4 - 86.9		4.34	26.5	
2-Nitroaniline	1	50	40.281	80.6	38.768	77.5	35.6 - 113		3.83	20.9	
2-Nitrophenol	1	50	38.552	77.1	36.274	72.5	25.9 - 106		6.09	26.9	
3&4-Methyl Phenol	1	50	29.022	58	28.031	56.1	27.9 - 92		3.47	27	
3,3-Dichlorobenzidine	1	50	43.083	86.2	41.445	82.9	27.2 - 142		3.88	22.3	
3-Nitroaniline	1	50	37.055	74.1	35.055	70.1	33.6 - 103		5.55	21.8	
4,6-Dinitro-2-methylphenol	1	50	39.596	79.2	37.330	74.7	18.4 - 148		5.89	24.4	
4-Bromophenyl-phenylether	1	50	37.962	75.9	35.980	72	40.7 - 116		5.36	21	
4-Chloro-3-methylphenol	1	50	35.882	71.8	34.365	68.7	35.7 - 100		4.32	22.9	
4-Chloroaniline	1	50	31.807	63.6	30.448	60.9	32 - 104		4.36	26.4	
4-Chlorophenyl-phenylether	1	50	37.481	75	35.130	70.3	39 - 113		6.48	20.9	
4-Nitroaniline	1	50	43.732	87.5	41.052	82.1	35.4 - 124		6.32	23.1	
4-Nitrophenol	1	50	16.437	32.9	15.461	30.9	10 - 52.7		6.12	40	
Acenaphthene	1	50	38.222	76.4	35.974	71.9	38.7 - 109		6.06	21.5	
Acenaphthylene	1	50	38.020	76	35.972	71.9	36 - 106		5.54	21	
Anthracene	1	50	39.104	78.2	36.566	73.1	43.6 - 113		6.71	18.8	
Azobenzene	1	50	39.032	78.1	36.897	73.8	37.6 - 111		5.62	21.1	
Benzo(a)anthracene	1	50	39.683	79.4	37.662	75.3	51.2 - 112		5.23	20	
Benzo(a)pyrene	1	50	37.663	75.3	35.534	71.1	45.6 - 106		5.82	20	
Benzo(b)fluoranthene	1	50	36.277	72.6	34.910	69.8	47.6 - 111		3.84	20	
Benzo(g,h,i)perylene	1	50	38.750	77.5	36.487	73	45.2 - 117		6.01	20	
Benzo(k)fluoranthene	1	50	38.386	76.8	35.603	71.2	49.4 - 114		7.52	20	
Benzoic Acid	1	50	14.850	29.7	15.012	30	0 - 79.4		1.08	31.1	
Benzyl Alcohol	1	50	29.256	58.5	28.231	56.5	30.1 - 89.2		3.57	24.8	
Benzylbutyl phthalate	1	50	38.352	76.7	37.178	74.4	31.8 - 123		3.11	20.7	
Bis(2-chlorethoxy)methane	1	50	35.297	70.6	33.761	67.5	37.2 - 111		4.45	24.1	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Bis(2-chloroethyl)ether	1	50	32.994	66	31.641	63.3	22.6 - 108		4.19	27.9	
Bis(2-chloroisopropyl)ether	1	50	34.283	68.6	32.950	65.9	32.9 - 100		3.97	25.1	
Bis(2-ethylhexyl)phthalate	1	50	37.025	74.1	35.604	71.2	36.9 - 134		3.91	23.6	
Carbazole	1	50	39.265	78.5	36.694	73.4	49 - 110		6.77	20	
Chrysene	1	50	36.705	73.4	35.366	70.7	54.6 - 120		3.72	20	
Dibenz(a,h)anthracene	1	50	38.017	76	35.738	71.5	42.8 - 118		6.18	20	
Dibenzofuran	1	50	38.365	76.7	36.772	73.5	42.4 - 105		4.24	20	
Diethyl phthalate	1	50	39.811	79.6	37.162	74.3	36.5 - 129		6.88	20	
Dimethyl phthalate	1	50	38.105	76.2	36.005	72	35.3 - 128		5.67	20.8	
Di-n-butyl phthalate	1	50	39.346	78.7	36.183	72.4	41.8 - 120		8.37	20.2	
Di-n-octyl phthalate	1	50	37.223	74.4	35.963	71.9	39.7 - 112		3.44	21.1	
Fluoranthene	1	50	38.718	77.4	35.775	71.6	45.9 - 115		7.9	20	
Fluorene	1	50	38.255	76.5	36.211	72.4	41 - 112		5.49	20.2	
Hexachloro-1,3-butadiene	1	50	32.154	64.3	31.263	62.5	16.1 - 104		2.81	31.2	
Hexachlorobenzene	1	50	38.886	77.8	36.434	72.9	38.5 - 116		6.51	20.1	
Hexachloroethane	1	50	32.444	64.9	31.303	62.6	16.5 - 89.8		3.58	30.7	
Indeno(1,2,3-cd)pyrene	1	50	38.755	77.5	36.471	72.9	45 - 116		6.07	20	
Isophorone	1	50	37.944	75.9	35.647	71.3	35.4 - 112		6.24	21.5	
Naphthalene	1	50	33.619	67.2	32.263	64.5	32.2 - 101		4.11	23.8	
Nitrobenzene	1	50	34.672	69.3	33.881	67.8	31.4 - 106		2.31	25.7	
n-Nitrosodimethylamine	1	50	20.523	41	17.658	35.3	10 - 80.1		15	37.5	
n-Nitrosodi-n-propylamine	1	50	37.076	74.2	35.353	70.7	33.2 - 106		4.76	23.7	
n-Nitrosodiphenylamine	1	50	38.945	77.9	35.974	71.9	44.4 - 113		7.93	20	
Pentachlorophenol	1	50	40.557	81.1	38.127	76.3	10 - 97.4		6.18	35.1	
Phenanthrene	1	50	37.288	74.6	35.158	70.3	46.4 - 113		5.88	20	
Phenol	1	50	14.854	29.7	14.938	29.9	10 - 57.9		0.56	35	
Pyrene	1	50	40.176	80.4	37.204	74.4	46.3 - 117		7.68	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	50	<0.355	33.971	67.9	33.265	66.5	21.4 - 101		2.1	31.3	
2,4,5-Trichlorophenol	1	50	<0.236	32.731	65.5	30.196	60.4	30.6 - 120		8.05	33.8	
2,4,6-Trichlorophenol	1	50	<0.297	29.144	58.3	27.128	54.3	19.1 - 114		7.17	29.9	
2,4-Dichlorophenol	1	50	<0.284	22.818	45.6	20.982	42	34.7 - 107		8.38	27.3	
2,4-Dimethylphenol	1	50	<0.624	5.9489	11.9	4.9958	9.99	10 - 152	J6	17.4	35.4	
2,4-Dinitrophenol	1	50	<3.25	35.898	71.8	33.573	67.1	10 - 136		6.69	40	
2,4-Dinitrotoluene	1	50	<1.65	41.156	82.3	40.450	80.9	16.2 - 135		1.73	20.6	
2,6-Dinitrotoluene	1	50	<0.279	40.020	80	38.743	77.5	25.2 - 124		3.24	22.2	
2-Chloronaphthalene	1	50	<0.33	39.099	78.2	38.397	76.8	29.7 - 114		1.81	24.2	
2-Chlorophenol	1	50	<0.283	38.265	76.5	35.486	71	13.9 - 105		7.53	32.4	
2-Methylphenol	1	50	<0.312	5.8830	11.8	4.0955	8.19	10 - 133	J6	35.8	40	
2-Nitroaniline	1	50	<1.9	42.395	84.8	41.592	83.2	23.5 - 134		1.91	21.8	
2-Nitrophenol	1	50	<0.32	40.716	81.4	39.515	79	26.7 - 114		2.99	34	
3&4-Methyl Phenol	1	50	<0.266	4.6340	9.27	3.1788	6.36	17.4 - 100	J6	37.2	27.7	J3
3,3-Dichlorobenzidine	1	50	<2.02	31.910	63.8	32.363	64.7	10 - 162		1.41	26.9	
3-Nitroaniline	1	50	<0.308	30.764	61.5	32.378	64.8	10 - 128		5.11	23	
4,6-Dinitro-2-methylphenol	1	50	<2.62	40.593	81.2	38.794	77.6	10 - 151		4.53	37.4	
4-Bromophenyl-phenylether	1	50	<0.335	38.490	77	37.228	74.5	34.3 - 135		3.33	23.2	
4-Chloro-3-methylphenol	1	50	<0.263	18.326	36.7	16.614	33.2	35.7 - 110	J6	9.8	20	
4-Chloroaniline	1	50	<0.382	25.705	51.4	25.402	50.8	10 - 123		1.18	21.9	
4-Chlorophenyl-phenylether	1	50	<0.303	37.312	74.6	36.452	72.9	35.6 - 127		2.33	20	
4-Nitroaniline	1	50	<0.349	40.878	81.8	41.361	82.7	10 - 168		1.18	22.4	
4-Nitrophenol	1	50	<2.01	21.362	42.7	19.712	39.4	10 - 130		8.04	40	
Acenaphthene	1	50	<0.01	38.477	77	37.754	75.5	30.7 - 124		1.9	22.6	
Acenaphthylene	1	50	<0.007	38.215	76.4	37.543	75.1	29 - 122		1.78	23.9	
Anthracene	1	50	<0.008	38.847	77.7	37.604	75.2	34.2 - 135		3.25	20	
Azobenzene	1	50	<0.318	39.037	78.1	37.659	75.3	25.2 - 135		3.59	20	
Benzo(a)anthracene	1	50	<0.0083	39.936	79.9	38.993	78	35.7 - 138		2.39	20	
Benzo(a)pyrene	1	50	<0.0158	36.237	72.5	36.225	72.5	23.3 - 135		0.03	20	
Benzo(b)fluoranthene	1	50	<0.0021	38.594	77.2	36.169	72.3	23 - 145		6.49	20	
Benzo(g,h,i)perylene	1	50	<0.0023	37.988	76	38.120	76.2	10 - 148		0.35	21	
Benzo(k)fluoranthene	1	50	<0.0255	38.824	77.6	37.124	74.2	29.5 - 143		4.48	20	
Benzoic Acid	1	50	<0.44	26.852	53.7	25.599	51.2	10 - 104.4		4.78	40	
Benzyl Alcohol	1	50	<0.393	30.087	60.2	29.675	59.4	10 - 135		1.38	34.4	
Benzylbutyl phthalate	1	50	<0.275	40.767	81.5	39.970	79.9	13.3 - 159		1.97	21.2	
Bis(2-chlorethoxy)methane	1	50	<0.329	36.059	72.1	35.327	70.7	26.4 - 127		2.05	25.8	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Bis(2-chloroethyl)ether	1	50	<1.62	33.934	67.9	33.425	66.9	10 - 154		1.51	40	
Bis(2-chloroisopropyl)ether	1	50	<0.445	35.190	70.4	34.661	69.3	19.4 - 126		1.51	37.2	
Bis(2-ethylhexyl)phthalate	1	50	<0.709	37.261	73.8	37.940	75.2	15.5 - 152		1.81	27.6	
Carbazole	1	50	<0.26	38.442	76.9	37.792	75.6	33.3 - 134		1.7	20	
Chrysene	1	50	<0.0144	37.762	75.5	36.416	72.8	37 - 145		3.63	20	
Dibenz(a,h)anthracene	1	50	<0.0045	37.872	75.7	37.670	75.3	10 - 147		0.53	22.3	
Dibenzofuran	1	50	<0.338	38.398	76.8	38.042	76.1	28 - 127		0.93	20	
Diethyl phthalate	1	50	<0.282	39.932	79.9	38.551	77.1	21.6 - 154		3.52	20	
Dimethyl phthalate	1	50	<0.283	38.824	77.6	38.174	76.3	10 - 157		1.69	20	
Di-n-butyl phthalate	1	50	0.4132	39.342	77.9	38.264	75.7	26 - 152		2.78	20	
Di-n-octyl phthalate	1	50	<0.278	37.701	75.4	37.925	75.9	12.3 - 145		0.59	22.9	
Fluoranthene	1	50	<0.0165	38.076	76.2	37.420	74.8	37.1 - 139		1.74	20	
Fluorene	1	50	<0.0090	38.242	76.5	37.295	74.6	10 - 162		2.51	20	
Hexachloro-1,3-butadiene	1	50	<0.329	33.177	66.4	32.890	65.8	15.7 - 109		0.87	37.6	
Hexachlorobenzene	1	50	<0.341	38.697	77.4	38.148	76.3	31.9 - 135		1.43	20	
Hexachloroethane	1	50	<0.365	34.083	68.2	33.480	67	10.4 - 105		1.79	40	
Indeno(1,2,3-cd)pyrene	1	50	<0.0074	38.747	77.5	38.417	76.8	10 - 145		0.86	20	
Isophorone	1	50	<0.272	38.804	77.3	37.503	74.7	25.9 - 133		3.41	22.9	
Naphthalene	1	50	<0.012	34.350	68.7	33.724	67.4	20.2 - 114		1.84	27.5	
Nitrobenzene	1	50	<0.367	36.639	73.3	35.873	71.7	23.1 - 121		2.11	29	
n-Nitrosodimethylamine	1	50	<1.26	22.590	45.2	21.442	42.9	10 - 94.5		5.21	40	
n-Nitrosodi-n-propylamine	1	50	<0.403	37.640	75.3	36.720	73.4	23.9 - 125		2.47	29.7	
n-Nitrosodiphenylamine	1	50	<0.304	37.558	75.1	37.276	74.6	20.6 - 150		0.76	20	
Pentachlorophenol	1	50	<0.313	40.720	81.4	38.569	77.1	10 - 108		5.43	40	
Phenanthrene	1	50	<0.0184	37.293	74.6	36.093	72.2	33 - 139		3.27	20	
Phenol	1	50	<0.334	9.7630	19.5	9.0031	18	10 - 64.1		8.1	40	
Pyrene	1	50	<0.0155	39.541	79.1	38.746	77.5	35.5 - 139		2.03	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Internal Standard Response and Retention Time Summary

File ID: 0526_36
Analyzed: 05/27/15 165700

	IS4		NAP		ACE		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	68459	5.31	280379	6.60	199388	8.50	372661	10.12
Upper Limit	137000	5.81	561000	7.10	399000	9.00	745000	10.62
Lower Limit	34200	4.81	140000	6.10	99700	8.00	186000	9.62
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-02 1.25X	67881	5.31	268220	6.60	186504	8.49	349039	10.12
L767115-05	68463	5.31	276044	6.60	202470	8.49	377655	10.12
L767115-09	62021	5.31	255171	6.60	178041	8.49	329082	10.12
LCSD WG791571	68038	5.31	280614	6.60	201435	8.49	366109	10.12
LCS WG791571	69957	5.31	286460	6.60	202029	8.49	365870	10.12
BLANK WG791571	69286	5.31	274295	6.60	194287	8.49	350561	10.12

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Internal Standard Response and Retention Time Summary

File ID: 0526_36
Analyzed: 05/27/15 165700

	IS4		CHR		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	68459	5.31	424348	13.04	417859	14.90
Upper Limit	137000	5.81	849000	13.54	836000	15.40
Lower Limit	34200	4.81	212000	12.54	209000	14.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-02 1.25X	67881	5.31	399192	13.03	391354	14.90
L767115-05	68463	5.31	433690	13.03	418510	14.89
L767115-09	62021	5.31	370755	13.03	384046	14.89
LCSD WG791571	68038	5.31	427772	13.03	417206	14.89
LCS WG791571	69957	5.31	429920	13.03	415362	14.89
BLANK WG791571	69286	5.31	384104	13.03	371716	14.89

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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YOUR LAB OF CHOICE

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Internal Standard Response and Retention Time Summary

File ID: 0528_02
Analyzed: 05/28/15 112700

	IS4		NAP		ACE		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	165556	5.50	631590	6.78	440976	8.68	828186	10.32
Upper Limit	331000	6.00	1260000	7.28	882000	9.18	1660000	10.82
Lower Limit	82800	5.00	316000	6.28	220000	8.18	414000	9.82
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-07	166291	5.50	617753	6.78	424059	8.68	807805	10.32
MSD WG791778	154742	5.50	587769	6.78	402799	8.68	760654	10.32
MS WG791778	159916	5.50	603562	6.78	414850	8.68	788955	10.32
LCSD WG791778	155282	5.50	588521	6.78	400904	8.68	763597	10.32
LCS WG791778	156689	5.50	593656	6.78	404850	8.68	762923	10.32
BLANK WG791778	163740	5.50	613309	6.78	418621	8.68	791360	10.32

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Internal Standard Response and Retention Time Summary

File ID: 0528_02
Analyzed: 05/28/15 112700

	IS4		CHR		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	165556	5.50	917409	13.24	880741	15.19
Upper Limit	331000	6.00	1830000	13.74	1760000	15.69
Lower Limit	82800	5.00	459000	12.74	440000	14.69
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-07	166291	5.50	830919	13.23	822356	15.18
MSD WG791778	154742	5.50	826371	13.23	808606	15.18
MS WG791778	159916	5.50	857592	13.23	840882	15.18
LCSD WG791778	155282	5.50	839293	13.23	827931	15.18
LCS WG791778	156689	5.50	839427	13.23	811625	15.18
BLANK WG791778	163740	5.50	818744	13.23	798480	15.18

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L767115-02 1.25x	BNAMS23	0526_47	0.0235	93.6	0.00931	74.5	0.0149	59.7	0.0101	80.8
L767115-05	BNAMS23	0526_48	0.0175	87.5	0.00678	67.8	0.0117	58.6	0.00812	81.2
L767115-09	BNAMS23	0526_50	0.0157	78.3	0.00661	66.1	0.00981	49.0	0.00622	62.2
LCS WG791571	BNAMS23	0526_38	0.0170	84.8	0.00705	70.5	0.0108	53.8	0.00701	70.1
LCSD WG791571	BNAMS23	0526_39	0.0171	85.6	0.00686	68.6	0.00771	38.5	0.00667	66.7
BLANK WG791571	BNAMS23	0526_40	0.0147	73.3	0.00678	67.8	0.0139	69.7	0.00654	65.4

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec
L767115-02 1.25x	BNAMS23	0526_47	0.00849	67.9	0.0129	51.4
L767115-05	BNAMS23	0526_48	0.00614	61.4	0.00961	48.0
L767115-09	BNAMS23	0526_50	0.00658	65.8	0.00668	33.4
LCS WG791571	BNAMS23	0526_38	0.00651	65.1	0.00774	38.7
LCSD WG791571	BNAMS23	0526_39	0.00650	65.0	0.00638	31.9
BLANK WG791571	BNAMS23	0526_40	0.00655	65.5	0.00743	37.2

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L767115-07	BNAMS19	0528_12	0.00441	22.0	0.00691	69.1	0.000411	2.05 J2	0.00601	60.1
BLANK WG791778	BNAMS19	0528_05	0.0127	63.5	0.00609	60.9	0.00743	37.1	0.00499	49.9
LCS WG791778	BNAMS19	0528_06	0.0154	77.2	0.00736	73.6	0.00836	41.8	0.00633	63.3
LCSD WG791778	BNAMS19	0528_07	0.0146	72.9	0.00701	70.1	0.00780	39.0	0.00612	61.2
MS WG791778	BNAMS19	0528_13	0.0121	60.4	0.00741	74.1	0.00428	21.4	0.00707	70.7
MSD WG791778	BNAMS19	0528_14	0.0115	57.3	0.00724	72.4	0.00383	19.1	0.00693	69.3

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec	
L767115-07	BNAMS19	0528_12	0.00628	62.8	0.000301	1.51	J2
BLANK WG791778	BNAMS19	0528_05	0.00589	58.9	0.00498	24.9	
LCS WG791778	BNAMS19	0528_06	0.00655	65.5	0.00569	28.4	
LCSD WG791778	BNAMS19	0528_07	0.00608	60.8	0.00539	27.0	
MS WG791778	BNAMS19	0528_13	0.00636	63.6	0.00365	18.3	
MSD WG791778	BNAMS19	0528_14	0.00641	64.1	0.00339	17.0	

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791571**
Analysis Date:	5/27/2015	Analyst:	377
Instrument ID:	BNAMS23	Prep Date:	5/26/2015
Sample Numbers:	L767115-02, -05, -09		

Instrument Performance Summary

FileID:0526_35.D Date:5/27/2015 Time: 4:38 PM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 198	48.1
68	Less than 2% of mass 69	1.6
70	Less than 2% of mass 69	0.6
127	10 - 80% of mass 198	56.6
197	Less than 2% of mass 198	0.4
198	50 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	25.4
365	1 - 100% of mass 198	4.9
441	Present, but less than mass 442	15.7
442	50 - 100% of mass 198	71.0
443	15 - 24% of mass 442	20.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG791571	LCS WG791571	0526_38.D	5/27/2015	5:44 PM
LCSD WG791571	LCSD WG791571	0526_39.D	5/27/2015	6:07 PM
Blank WG791571	Blank WG791571	0526_40.D	5/27/2015	6:31 PM
H-SS059-MW52-DT01	L767115-02	0526_47.D	5/27/2015	9:15 PM
H-SS059-MW52-NT01	L767115-05	0526_48.D	5/27/2015	9:38 PM
H-SS059-MW50-NT01	L767115-09	0526_50.D	5/27/2015	10:25 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG791778**
Analysis Date:	5/28/2015	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	5/27/2015
Sample Numbers:	L767115-07		

Instrument Performance Summary

FileID:0528_01.D Date:5/28/2015 Time: 11:04 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	42.2
68	Less than 2% of mass 69	1.1
69	Less than 100% of mass 198	45.0
70	Less than 2% of mass 69	0.0
127	40 - 60% of mass 198	50.4
197	Less than 1% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	25.8
365	1 - 100% of mass 198	3.8
441	Present, but less than mass 443	77.7
442	40 - 100% of mass 198	84.5
443	17 - 23% of mass 442	19.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
Blank WG791778	Blank WG791778	0528_05.D	5/28/2015	3:12 PM
LCS WG791778	LCS WG791778	0528_06.D	5/28/2015	3:35 PM
LCSD WG791778	LCSD WG791778	0528_07.D	5/28/2015	3:59 PM
H-SS059-MW51-NT01	L767115-07	0528_12.D	5/28/2015	6:19 PM
MS WG791778	MS WG791778	0528_13.D	5/28/2015	6:42 PM
MSD WG791778	MSD WG791778	0528_14.D	5/28/2015	7:05 PM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS19
Method Name : S819E27O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
Pyridine		1.562	1.501	1.578	1.441	1.412	1.454	1.446	1.455	1.473064	4.18
N-Nitrosodimethylamine		0.768	0.821	0.905	0.752	0.726	0.730	0.720	0.725	0.762453	8.27
2-Fluorophenol		1.065	1.055	1.127	1.055	1.037	1.083	1.094	1.092	1.073973	2.54
Aniline		0.593	0.699	0.756	0.688	0.700	0.714	0.708	0.712	0.695206	6.24
bis(2-Chloroethyl)ether		0.974	0.956	1.040	0.928	0.924	0.943	0.928	0.928	0.947315	4.25
Phenol-d5		1.476	1.400	1.568	1.413	1.404	1.468	1.452	1.447	1.450469	3.57
Phenol		1.482	1.479	1.619	1.463	1.455	1.499	1.487	1.487	1.490622	3.43
Benzaldehyde										0.622082	4.74
2-Chlorophenol		1.380	1.282	1.410	1.300	1.259	1.331	1.321	1.327	1.321969	3.62
n-Decane		1.011	0.853	0.898	0.836	0.844	0.826	0.816	0.798	0.849898	8.29
1,3-Dichlorobenzene		1.550	1.526	1.664	1.492	1.459	1.528	1.523	1.525	1.527464	3.82
1,4-Dichlorobenzene		1.617	1.553	1.709	1.538	1.486	1.559	1.563	1.554	1.564230	4.22
Benzyl Alcohol		1.178	1.076	1.161	1.056	1.077	1.125	1.110	1.126	1.111455	3.64
1,2-Dichlorobenzene		1.506	1.501	1.621	1.492	1.438	1.504	1.495	1.503	1.501080	3.43
bis(2-Chloroisopropyl)ether		0.500	0.454	0.469	0.430	0.414	0.427	0.426	0.422	0.438897	6.81
2-Methylphenol		1.210	1.136	1.196	1.119	1.115	1.146	1.135	1.146	1.145129	3.14
Hexachloroethane		0.671	0.647	0.702	0.644	0.642	0.673	0.675	0.674	0.664559	2.97
N-Nitrosodi-n-propylamine		0.886	0.763	0.860	0.804	0.804	0.841	0.839	0.853	0.830740	4.39
3&4-Methyl phenol		1.359	1.323	1.402	1.296	1.301	1.336	1.331	1.332	1.330872	2.55
Acetophenone										1.814995	3.57
Nitrobenzene-d5		0.357	0.349	0.377	0.362	0.376	0.384	0.385	0.389	0.372106	3.70
Nitrobenzene		0.378	0.377	0.396	0.376	0.380	0.380	0.382	0.382	0.380019	1.96
Isophorone		0.621	0.628	0.679	0.659	0.676	0.689	0.688	0.690	0.665182	3.94
2-Nitrophenol		0.154	0.169	0.190	0.187	0.189	0.204	0.208	0.209	0.190164	9.71
2,4-Dimethylphenol		0.376	0.365	0.384	0.357	0.360	0.358	0.356	0.355	0.361016	3.67
bis(2-Chlorethoxy)methane		0.418	0.419	0.457	0.426	0.421	0.423	0.426	0.425	0.425050	3.12
2,4-Dichlorophenol		0.331	0.316	0.345	0.325	0.321	0.332	0.335	0.338	0.330101	2.67
Benzoic Acid										0.197760	22.49

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS19
Method Name : S819E27O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
1,2,4-Trichlorobenzene		0.401	0.390	0.419	0.379	0.367	0.383	0.382	0.387	0.386745	4.02
Naphthalene	1.276	1.174	1.135	1.192	1.090	1.067	1.074	1.068	1.065	1.114754	7.11
4-Chloroaniline		0.136	0.140	0.150	0.138	0.140	0.141	0.140	0.140	0.140064	3.09
Hexachloro-1,3-butadiene		0.229	0.236	0.252	0.233	0.227	0.241	0.241	0.243	0.237369	3.23
Caprolactam										0.104693	11.40
4-Chloro-3-methylphenol		0.323	0.315	0.338	0.317	0.321	0.327	0.330	0.332	0.325134	2.31
2-Methylnaphthalene	0.819	0.825	0.798	0.866	0.787	0.781	0.798	0.797	0.790	0.801664	3.71
1-Methylnaphthalene	0.734	0.734	0.719	0.774	0.712	0.693	0.709	0.709	0.711	0.716859	3.70
1,2,4,5-Tetrachlorobenzene										0.385373	1.37
Hexachlorocyclopentadiene		0.370	0.379	0.420	0.409	0.406	0.447	0.456	0.464	0.422400	8.15
2,4,6-Trichlorophenol		0.355	0.361	0.383	0.366	0.367	0.386	0.391	0.397	0.376526	3.86
2,4,5-Trichlorophenol		0.341	0.392	0.413	0.407	0.389	0.419	0.417	0.424	0.401688	6.40
2-Fluorobiphenyl		1.375	1.324	1.414	1.308	1.251	1.300	1.277	1.278	1.304276	4.72
Biphenyl	1.420	1.453	1.451	1.528	1.432	1.379	1.410	1.389	1.391	1.416422	3.99
2-Chloronaphthalene	1.282	1.203	1.185	1.226	1.146	1.104	1.136	1.131	1.129	1.161986	5.30
2-Nitroaniline		0.268	0.274	0.316	0.323	0.336	0.369	0.370	0.380	0.333210	12.49
Acenaphthylene	1.656	1.656	1.759	1.906	1.811	1.776	1.799	1.784	1.773	1.760928	4.36
Dimethyl phthalate		1.259	1.313	1.370	1.318	1.271	1.305	1.282	1.277	1.290496	3.28
2,6-Dinitrotoluene		0.219	0.255	0.294	0.293	0.292	0.313	0.311	0.315	0.288687	10.98
3-Nitroaniline		0.203	0.266	0.303	0.305	0.306	0.321	0.318	0.316	0.294066	12.79
Acenaphthene	1.059	1.234	1.211	1.269	1.197	1.149	1.165	1.154	1.135	1.165700	5.57
2,4-Dinitrophenol			0.099	0.129	0.152	0.166	0.197	0.207	0.213	0.171897	24.76
Dibenzofuran	1.682	1.770	1.749	1.828	1.690	1.640	1.666	1.642	1.630	1.685844	4.60
2,4-Dinitrotoluene		0.263	0.324	0.374	0.384	0.389	0.423	0.418	0.420	0.378052	14.08
2,3,4,6-Tetrachlorophenol										0.288002	8.42
4-Nitrophenol		0.167	0.214	0.250	0.257	0.258	0.269	0.268	0.271	0.246540	13.98
Fluorene	1.474	1.395	1.430	1.527	1.419	1.370	1.413	1.385	1.364	1.408153	4.39
4-Chlorophenyl-phenylether		0.720	0.715	0.756	0.698	0.673	0.696	0.692	0.700	0.702714	3.65
Diethyl phthalate		1.235	1.299	1.414	1.343	1.299	1.324	1.283	1.266	1.297833	4.54

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS19
Method Name : S819E27O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
4-Nitroaniline		0.270	0.273	0.320	0.320	0.292	0.271	0.247	0.246	0.275859	10.75
Azobenzene		1.214	1.253	1.409	1.382	1.381	1.363	1.345	1.336	1.327430	5.10
Atrazine										0.347913	7.70
4,6-Dinitro-2-methylphenol			0.075	0.102	0.112	0.117	0.138	0.141	0.148	0.122482	21.18
N-Nitrosodiphenylamine		0.617	0.605	0.670	0.636	0.596	0.631	0.611	0.617	0.619940	3.79
2,4,6-Tribromophenol		0.096	0.107	0.120	0.117	0.115	0.130	0.135	0.142	0.122554	12.74
4-Bromophenyl-phenylether		0.218	0.215	0.230	0.217	0.209	0.227	0.227	0.238	0.223101	4.00
Hexachlorobenzene		0.267	0.258	0.267	0.251	0.238	0.260	0.265	0.277	0.261486	4.37
n-octadecane		0.117	0.107	0.116	0.108	0.110	0.111	0.110	0.112	0.111099	3.19
Pentachlorophenol		0.120	0.128	0.145	0.143	0.144	0.164	0.168	0.176	0.151278	13.21
Phenanthrene	1.286	1.242	1.181	1.240	1.151	1.094	1.132	1.096	1.118	1.158433	6.69
Anthracene	1.043	1.055	1.120	1.188	1.138	1.093	1.133	1.128	1.136	1.109949	4.07
Carbazole	1.052	1.047	1.039	1.119	1.078	1.025	1.041	0.988	0.941	1.017998	7.46
Di-n-butyl phthalate		1.141	1.169	1.263	1.232	1.235	1.273	1.244	1.224	1.213570	4.12
2-nitrodiphenylamine										0.231456	22.12
Fluoranthene	1.303	1.216	1.258	1.346	1.291	1.240	1.282	1.255	1.233	1.257604	4.22
Benzidine										0.482885	14.91
Pyrene	1.253	1.178	1.210	1.287	1.212	1.129	1.121	1.088	1.042	1.148557	8.62
p-Terphenyl-d14		0.919	0.905	0.975	0.917	0.852	0.866	0.855	0.850	0.884288	5.46
Benzylbutyl phthalate		0.490	0.486	0.528	0.515	0.529	0.531	0.523	0.538	0.516814	3.49
3,3-Dichlorobenzidine										0.407715	4.13
Benzo(a)anthracene	1.830	1.305	1.253	1.313	1.253	1.175	1.193	1.180	1.183	1.280570	15.82
Chrysene	1.209	1.232	1.216	1.271	1.193	1.152	1.166	1.134	1.128	1.175693	5.25
bis(2-Ethylhexyl)phthalate		0.904	0.737	0.812	0.785	0.800	0.777	0.758	0.773	0.785759	6.67
Di-n-octyl phthalate		1.216	1.240	1.359	1.336	1.363	1.347	1.337	1.340	1.311441	4.25
Benzo(b)fluoranthene	1.300	1.241	1.259	1.357	1.277	1.200	1.270	1.244	1.291	1.271299	3.26
Benzo(k)fluoranthene	1.356	1.205	1.172	1.271	1.197	1.188	1.201	1.224	1.173	1.212975	5.02
Benzo(a)pyrene	1.294	1.103	1.143	1.277	1.186	1.164	1.204	1.217	1.222	1.196677	4.95
Indeno(1,2,3-cd)pyrene	1.306	1.325	1.388	1.479	1.429	1.381	1.418	1.390	1.365	1.374318	4.60

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS19
Method Name : S819E27O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
Dibenz(a,h)anthracene	1.190	1.115	1.166	1.265	1.218	1.186	1.218	1.200	1.174	1.182264	4.25
Benzo(g,h,i)perylene	1.233	1.142	1.175	1.254	1.199	1.154	1.166	1.130	1.080	1.150659	6.97

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS23
Method Name : S823E19O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
Pyridine		1.767	1.921	2.151	1.917	1.965	1.934	1.940	1.936	1.933211	5.19
N-Nitrosodimethylamine		1.256	1.096	1.116	1.040	1.043	1.000	1.008	0.994	1.056644	8.51
2-Fluorophenol		1.141	1.145	1.255	1.194	1.204	1.220	1.227	1.233	1.200577	3.22
Aniline		0.829	0.877	0.946	0.897	0.871	0.910	0.911	0.907	0.892280	3.68
bis(2-Chloroethyl)ether		1.371	1.347	1.433	1.319	1.343	1.294	1.309	1.280	1.325034	4.41
Phenol-d5		1.458	1.569	1.755	1.623	1.660	1.668	1.701	1.679	1.639164	5.20
Phenol		1.676	1.740	1.948	1.832	1.815	1.822	1.846	1.842	1.810338	4.20
Benzaldehyde										0.683803	4.05
2-Chlorophenol		1.388	1.446	1.531	1.424	1.411	1.442	1.454	1.465	1.440804	2.92
n-Decane		1.228	1.067	1.110	0.975	0.974	0.890	0.859	0.822	0.965843	15.36
1,3-Dichlorobenzene		1.586	1.625	1.736	1.596	1.599	1.604	1.631	1.621	1.618322	3.01
1,4-Dichlorobenzene		1.551	1.654	1.708	1.621	1.622	1.618	1.653	1.655	1.631038	2.68
Benzyl Alcohol		1.099	1.144	1.288	1.217	1.263	1.301	1.337	1.339	1.253663	6.72
1,2-Dichlorobenzene		1.570	1.572	1.679	1.573	1.567	1.548	1.592	1.590	1.580333	2.62
bis(2-Chloroisopropyl)ether		0.484	0.482	0.545	0.466	0.464	0.465	0.471	0.471	0.477836	5.64
2-Methylphenol		1.316	1.242	1.336	1.224	1.238	1.242	1.273	1.253	1.260111	3.26
Hexachloroethane		0.803	0.749	0.832	0.781	0.779	0.789	0.805	0.791	0.789155	2.92
N-Nitrosodi-n-propylamine		0.792	0.769	0.835	0.789	0.811	0.813	0.839	0.828	0.808806	2.86
3&4-Methyl phenol		1.329	1.367	1.617	1.450	1.476	1.455	1.477	1.476	1.454412	5.50
Acetophenone										2.115979	3.27
Nitrobenzene-d5		0.395	0.400	0.438	0.419	0.430	0.419	0.429	0.435	0.420139	3.54
Nitrobenzene		0.410	0.394	0.445	0.430	0.414	0.410	0.419	0.421	0.416136	3.62
Isophorone		0.733	0.720	0.784	0.749	0.754	0.744	0.753	0.764	0.748483	2.50
2-Nitrophenol		0.155	0.162	0.197	0.187	0.185	0.195	0.202	0.207	0.187761	9.58
2,4-Dimethylphenol		0.339	0.383	0.413	0.392	0.387	0.380	0.386	0.387	0.382203	5.17
bis(2-Chlorethoxy)methane		0.452	0.461	0.513	0.471	0.471	0.456	0.469	0.469	0.468169	4.03
2,4-Dichlorophenol		0.275	0.300	0.339	0.316	0.319	0.318	0.327	0.330	0.315845	5.93
Benzoic Acid										0.207968	25.27

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS23
Method Name : S823E19O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
1,2,4-Trichlorobenzene		0.352	0.359	0.372	0.350	0.339	0.336	0.344	0.349	0.348517	3.39
Naphthalene	1.200	1.187	1.147	1.227	1.132	1.127	1.106	1.128	1.140	1.149779	3.59
4-Chloroaniline		0.138	0.157	0.179	0.171	0.163	0.169	0.172	0.172	0.165061	7.27
Hexachloro-1,3-butadiene		0.254	0.226	0.241	0.223	0.214	0.224	0.224	0.230	0.228895	5.14
Caprolactam										0.114048	10.50
4-Chloro-3-methylphenol		0.300	0.329	0.362	0.351	0.348	0.350	0.360	0.368	0.347138	6.06
2-Methylnaphthalene	0.813	0.808	0.787	0.859	0.804	0.795	0.784	0.803	0.814	0.805249	2.75
1-Methylnaphthalene	0.670	0.708	0.721	0.761	0.719	0.702	0.698	0.713	0.722	0.711567	3.27
1,2,4,5-Tetrachlorobenzene										0.321492	2.50
Hexachlorocyclopentadiene				0.294	0.310	0.332	0.368	0.383	0.400	0.353717	11.78
2,4,6-Trichlorophenol		0.305	0.331	0.352	0.338	0.343	0.359	0.365	0.371	0.346406	5.77
2,4,5-Trichlorophenol		0.337	0.347	0.377	0.364	0.359	0.383	0.386	0.394	0.369303	5.08
2-Fluorobiphenyl		1.258	1.284	1.368	1.276	1.257	1.293	1.284	1.303	1.284117	2.94
Biphenyl	1.415	1.448	1.432	1.510	1.388	1.380	1.404	1.415	1.436	1.416708	3.20
2-Chloronaphthalene	1.296	1.165	1.162	1.198	1.131	1.120	1.137	1.142	1.158	1.158629	5.01
2-Nitroaniline			0.306	0.329	0.353	0.367	0.388	0.392	0.401	0.364244	9.06
Acenaphthylene	1.443	1.706	1.780	1.939	1.850	1.827	1.857	1.861	1.896	1.794253	7.78
Dimethyl phthalate		1.264	1.334	1.411	1.334	1.289	1.326	1.315	1.340	1.318927	3.51
2,6-Dinitrotoluene		0.236	0.263	0.319	0.305	0.296	0.310	0.309	0.310	0.293814	9.15
3-Nitroaniline		0.225	0.259	0.314	0.312	0.300	0.302	0.303	0.307	0.290996	10.18
Acenaphthene	1.188	1.208	1.224	1.295	1.181	1.170	1.205	1.205	1.210	1.204930	3.06
2,4-Dinitrophenol				0.064	0.084	0.117	0.137	0.157	0.170	0.128833	32.83
Dibenzofuran	1.647	1.719	1.724	1.824	1.680	1.641	1.686	1.691	1.719	1.694852	3.43
2,4-Dinitrotoluene		0.284	0.333	0.392	0.400	0.405	0.419	0.428	0.436	0.390032	12.72
2,3,4,6-Tetrachlorophenol										0.258214	12.77
4-Nitrophenol			0.178	0.219	0.222	0.241	0.261	0.267	0.280	0.241459	13.97
Fluorene	1.287	1.374	1.407	1.505	1.389	1.386	1.426	1.425	1.430	1.399580	4.00
4-Chlorophenyl-phenylether		0.644	0.639	0.693	0.634	0.608	0.635	0.638	0.636	0.637204	3.92
Diethyl phthalate		1.400	1.374	1.484	1.420	1.367	1.422	1.421	1.448	1.414002	2.59

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS23
Method Name : S823E19O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
4-Nitroaniline			0.285	0.315	0.321	0.272	0.247	0.247	0.255	0.272906	11.57
Azobenzene		1.360	1.527	1.621	1.552	1.570	1.555	1.539	1.543	1.525717	4.86
Atrazine										0.350080	8.01
4,6-Dinitro-2-methylphenol			0.063	0.081	0.098	0.109	0.123	0.130	0.139	0.109526	24.99
N-Nitrosodiphenylamine		0.619	0.662	0.697	0.668	0.640	0.646	0.649	0.654	0.651014	3.65
2,4,6-Tribromophenol		0.074	0.095	0.109	0.109	0.105	0.112	0.114	0.117	0.105444	12.72
4-Bromophenyl-phenylether		0.204	0.205	0.227	0.208	0.203	0.208	0.212	0.213	0.209320	3.58
Hexachlorobenzene		0.262	0.256	0.259	0.248	0.233	0.245	0.242	0.250	0.248393	3.83
n-octadecane		0.177	0.195	0.218	0.204	0.199	0.193	0.184	0.182	0.191248	7.81
Pentachlorophenol			0.068	0.095	0.108	0.121	0.135	0.143	0.150	0.120594	23.55
Phenanthrene	1.311	1.311	1.233	1.275	1.222	1.195	1.205	1.212	1.218	1.233803	4.10
Anthracene	1.072	1.158	1.184	1.241	1.217	1.178	1.225	1.205	1.221	1.187262	4.09
Carbazole	0.990	1.040	1.129	1.189	1.163	1.070	1.046	0.975	0.955	1.043039	9.48
Di-n-butyl phthalate		1.407	1.457	1.582	1.557	1.551	1.598	1.577	1.581	1.530983	4.48
2-nitrodiphenylamine										0.285277	20.16
Fluoranthene	1.374	1.229	1.328	1.435	1.397	1.362	1.417	1.424	1.424	1.374696	4.51
Benzidine										0.493861	19.78
Pyrene	1.322	1.410	1.371	1.479	1.392	1.397	1.419	1.404	1.439	1.397720	3.22
p-Terphenyl-d14		0.980	1.029	1.043	0.978	0.979	0.990	0.993	1.009	0.996471	2.59
Benzylbutyl phthalate		0.717	0.689	0.740	0.708	0.738	0.749	0.736	0.756	0.727753	2.99
3,3-Dichlorobenzidine										0.411001	3.22
Benzo(a)anthracene	1.801	1.420	1.275	1.334	1.261	1.279	1.286	1.282	1.293	1.347376	12.38
Chrysene	1.207	1.206	1.219	1.298	1.186	1.203	1.200	1.207	1.229	1.210651	3.05
bis(2-Ethylhexyl)phthalate		1.009	1.019	1.128	1.049	1.076	1.085	1.087	1.099	1.065791	3.68
Di-n-octyl phthalate		1.881	1.763	1.912	1.815	1.871	1.876	1.869	1.895	1.851733	2.79
Benzo(b)fluoranthene	1.438	1.350	1.280	1.388	1.318	1.337	1.304	1.296	1.357	1.334711	3.79
Benzo(k)fluoranthene	1.404	1.251	1.171	1.258	1.195	1.163	1.224	1.266	1.237	1.239921	5.45
Benzo(a)pyrene	1.289	1.231	1.142	1.283	1.198	1.198	1.211	1.216	1.238	1.221177	3.51
Indeno(1,2,3-cd)pyrene	1.224	1.268	1.212	1.344	1.253	1.263	1.267	1.256	1.276	1.257928	3.02

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Hollman AFB
Instrument ID: BNAMS23
Method Name : S823E19O.M

Relative Response Factor Summary

Compound Name	Level 40	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Average RRF	%RSD
Dibenz(a,h)anthracene	1.064	1.034	1.007	1.096	1.030	1.057	1.031	1.035	1.044	1.040191	2.60
Benzo(g,h,i)perylene	1.030	1.078	1.041	1.133	1.059	1.070	1.077	1.072	1.078	1.067294	2.76

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS23

Method Name : S823E19O.M Date : 5/27/2015
FileName : 0526_36.D Time : 4:57 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.0566	0.9480	10.3		
Bis(2-chloroethyl)ether	1.3250	1.2447	6.06		
Phenol	1.8103	1.5908	12.1		
2-Chlorophenol	1.4408	1.3979	2.98		
1,4-Dichlorobenzene	1.6310	1.6217	0.57		
Benzyl Alcohol	1.2537	1.2585	0.38		
Bis(2-chloroisopropyl)ether	0.4778	0.4617	3.38		
2-Methylphenol	1.2601	1.1997	4.79		
Hexachloroethane	0.7892	0.7909	0.23		
n-Nitrosodi-n-propylamine	0.8088	0.7461	7.76	>0.05	
3&4-Methyl Phenol	1.4544	0.7005	51.8		
Nitrobenzene	0.4161	0.4054	2.59		
Isophorone	0.7485	0.7125	4.81		
2-Nitrophenol	0.1878	0.1932	2.89		
2,4-Dimethylphenol	0.3822	0.3791	0.81		
Bis(2-chlorethoxy)methane	0.4682	0.4479	4.34		
2,4-Dichlorophenol	0.3158	0.3179	0.65		
1,2,4-Trichlorobenzene	0.3485	0.3405	2.29		
4-Chloroaniline	0.1651	0.1663	0.74		
Hexachloro-1,3-butadiene	0.2289	0.2401	4.89		
4-Chloro-3-methylphenol	0.3471	0.3465	0.19		
Hexachlorocyclopentadiene	0.3537	0.3544	0.2	>0.05	
2,4,6-Trichlorophenol	0.3464	0.3469	0.13		
2,4,5-Trichlorophenol	0.3693	0.3745	1.4		
2-Chloronaphthalene	1.1586	1.1061	4.53		
2-Nitroaniline	0.3642	0.3690	1.3		
Dimethyl phthalate	1.3189	1.2907	2.14		
2,6-Dinitrotoluene	0.2938	0.3098	5.43		
3-Nitroaniline	0.2910	0.3202	10		
Acenaphthene	1.2049	1.1650	3.31		
2,4-Dinitrophenol	0.1288	0.1347	4.59	>0.05	**

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS23

Method Name : S823E19O.M Date : 5/27/2015
FileName : 0526_36.D Time : 4:57 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.6949	1.6734	1.26		
2,4-Dinitrotoluene	0.3900	0.4247	8.89		
4-Nitrophenol	0.2415	0.2385	1.24	>0.05	
4-Chlorophenyl-phenylether	0.6372	0.6383	0.17		
Diethyl phthalate	1.4140	1.4212	0.51		
4-Nitroaniline	0.2729	0.3083	13		
1,2-Diphenylhydrazine	1.5257	1.4798	3.01		
4,6-Dinitro-2-methylphenol	0.1095	0.1205	10		**
n-Nitrosodiphenylamine	0.6510	0.6235	4.22		
4-Bromophenyl-phenylether	0.2093	0.2039	2.61		
Hexachlorobenzene	0.2484	0.2408	3.04		
Pentachlorophenol	0.1206	0.1266	4.95		**
Carbazole	1.0430	1.1068	6.11		
Di-n-butyl phthalate	1.5310	1.5396	0.56		
Fluoranthene	1.3747	1.4030	2.06		
Benzylbutyl phthalate	0.7278	0.6850	5.87		
Bis(2-ethylhexyl)phthalate	1.0658	1.0252	3.81		
Di-n-octyl phthalate	1.8517	1.7780	3.98		
Benzo(a)pyrene	1.2212	1.1753	3.76		

*** - 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: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS23

Method Name : S823E19O.M Date : 5/27/2015
FileName : 0526_37.D Time : 5:21 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.2080	0.2176	4.62	**

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS19

Method Name : S819E27O.M Date : 5/28/2015
FileName : 0528_02.D Time : 11:27 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	0.7625	0.7459	2.17		
Bis(2-chloroethyl)ether	0.9473	0.9104	3.9		
Phenol	1.4906	1.4769	0.92		
2-Chlorophenol	1.3220	1.2931	2.18		
1,4-Dichlorobenzene	1.5642	1.5204	2.8		
Benzyl Alcohol	1.1115	1.0654	4.15		
Bis(2-chloroisopropyl)ether	0.4389	0.4124	6.03		
2-Methylphenol	1.1451	1.1143	2.7		
Hexachloroethane	0.6646	0.6437	3.14		
n-Nitrosodi-n-propylamine	0.8307	0.8516	2.51	>0.05	
3&4-Methyl Phenol	1.3309	0.6482	51.3		
Nitrobenzene	0.3800	0.3707	2.45		
Isophorone	0.6652	0.6585	1.01		
2-Nitrophenol	0.1902	0.1945	2.27		
2,4-Dimethylphenol	0.3610	0.3504	2.95		
Bis(2-chlorethoxy)methane	0.4251	0.4102	3.5		
2,4-Dichlorophenol	0.3301	0.3205	2.91		
1,2,4-Trichlorobenzene	0.3867	0.3674	5		
4-Chloroaniline	0.1401	0.1332	4.92		
Hexachloro-1,3-butadiene	0.2374	0.2294	3.37		
4-Chloro-3-methylphenol	0.3251	0.3110	4.34		
Hexachlorocyclopentadiene	0.4224	0.4103	2.86	>0.05	
2,4,6-Trichlorophenol	0.3765	0.3620	3.85		
2,4,5-Trichlorophenol	0.4017	0.3890	3.16		
2-Chloronaphthalene	1.1620	1.1043	4.96		
2-Nitroaniline	0.3332	0.3461	3.86		
Dimethyl phthalate	1.2905	1.2527	2.93		
2,6-Dinitrotoluene	0.2887	0.2965	2.71		
3-Nitroaniline	0.2941	0.3066	4.27		
Acenaphthene	1.1657	1.1306	3.01		
2,4-Dinitrophenol	0.1719	0.1545	10.1	>0.05	**

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS19

Method Name : S819E27O.M Date : 5/28/2015
FileName : 0528_02.D Time : 11:27 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.6858	1.6251	3.6		
2,4-Dinitrotoluene	0.3781	0.3966	4.9		
4-Nitrophenol	0.2465	0.2530	2.63	>0.05	
4-Chlorophenyl-phenylether	0.7027	0.6684	4.89		
Diethyl phthalate	1.2978	1.2762	1.66		
4-Nitroaniline	0.2759	0.3133	13.6		
1,2-Diphenylhydrazine	1.3274	1.3058	1.63		
4,6-Dinitro-2-methylphenol	0.1225	0.1216	0.73		**
n-Nitrosodiphenylamine	0.6199	0.6071	2.07		
4-Bromophenyl-phenylether	0.2231	0.2151	3.57		
Hexachlorobenzene	0.2615	0.2492	4.7		
Pentachlorophenol	0.1513	0.1460	3.49		
Carbazole	1.0180	1.0190	0.1		
Di-n-butyl phthalate	1.2136	1.1825	2.56		
Fluoranthene	1.2576	1.2326	1.99		
Benzylbutyl phthalate	0.5168	0.5100	1.31		
Bis(2-ethylhexyl)phthalate	0.7858	0.7647	2.68		
Di-n-octyl phthalate	1.3114	1.3157	0.32		
Benzo(a)pyrene	1.1967	1.1405	4.7		

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS19

Method Name : S819E27O.M Date : 5/28/2015
FileName : 0528_03.D Time : 11:50 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1978	0.1751	11.5	**

*** - calibrated by linear regression*

Raw Data

BNA RV Extractions Benchsheet

Batch #: WG791571

Analyst: DMG614 **Prep Start Date/Time:** 05/27/15 10:17 **Prep End Date/Time:** 05/27/15 15:27 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15C28209 Exp. Date:09/28/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **H2SO4:** 15E20986 Exp. Date:10/10/15 **Surrogate:** 15E22118 Amt. Used: 100 µL Exp. Date:07/08/15

LCS/MS Spike: 15E21085 Amt. Used: 250 µL Exp. Date:11/05/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Extract Color	Final Sample Vol.	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	Colorless	0.5	
LCS		100	<2	>11	36	No Emulsion	Yellow	0.5	
LCSD		100	<2	>11	36	No Emulsion	Yellow	0.5	
1. L767080-01		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD ADAPT - refer to
2. L767084-01		100	<2	>11	36	No Emulsion	Pink	0.5	SV608-no PCBS - refer to L767085 SV608-no PCBS - refer to L767085624 rr
3. L767115-02		80	<2	>11	36	No Emulsion	Pink	0.5	EDD/QC4/DOD
4. L767115-05		100	<2	>11	36	No Emulsion	Pink	0.5	EDD/QC4/DOD
5. L767115-07		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD - MS/MSD sample
6. L767115-09		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD
7. L767137-01		100	<2	>11	36	No Emulsion	Colorless	0.5	

Comments:
DOD SYRINGE ESC30645

Reviewed By:ADF377 on 05/27/15 16:04:32

BNA RV Extractions Benchsheet

Batch #: WG791778

Analyst: NCC250 **Prep Start Date/Time:** 05/27/15 20:41 **Prep End Date/Time:** 05/28/15 04:12 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15D23548 Exp. Date:10/23/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **H2SO4:** 15E20986 Exp. Date:10/10/15 **Surrogate:** 15E22118 Amt. Used: 100 µL Exp. Date:07/08/15

LCS/MS Spike: 15E21085 Amt. Used: 250 µL Exp. Date:11/05/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Extract Color	Final Sample Vol.	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	Colorless	0.5	
LCS		100	<2	>11	36	No Emulsion	Yellow	0.5	
LCSD		100	<2	>11	36	No Emulsion	Yellow	0.5	
MS(L767115-07)		100	<2	>11	36	No Emulsion	Yellow	0.5	
MSD(L767115-07)		100	<2	>11	36	No Emulsion	Yellow	0.5	
1. L767115-07		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD - MS/MSD sample EDD/QC4/DOD - MS/MSD sampleclient req MS/D" ||
2. L767246-01		100	<2	>11	36	No Emulsion	Colorless	0.5	
3. L767260-01		100	<2	>11	36	No Emulsion	Yellow	0.5	
4. L767467-01		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-01 MS 5/27/15
5. L767467-02		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-02 MS 5/27/15
6. L767467-03		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-03 MS 5/27/15
7. L767467-04		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-04 MS 5/27/15

Comments:
'DOD SYRINGE ESC30593'

Reviewed By: on

SIM RV Extractions Benchsheet

Batch #: WG792025

Analyst: DMG614 **Prep Start Date/Time:** 05/28/15 14:25 **Prep End Date/Time:** 05/28/15 18:38 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15D23548 Exp. Date:10/23/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **Surrogate:** 15D29868 Amt. Used: 200 µL Exp. Date:10/22/15

LCS/MS Spike: 15D14085 Amt. Used: 200 µL Exp. Date:09/15/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Final Volume (mL)	Extract Color	Sample Comments
BLANK		100	>11	18	No Emulsion	5	Colorless	
LCS		100	>11	18	No Emulsion	5	Colorless	
LCSD		100	>11	18	No Emulsion	5	Colorless	
MS(L767115-07)		90	>11	18	Heavy Emulsion	5	Colorless	10@@@% sediment, no rinse
MSD(L767115-07)		90	>11	18	Heavy Emulsion	5	Colorless	10@@@% sediment, no rinse
1. L767115-02		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD EDD/QC4/DODHits in WG Blank, K 10@@@% sediment, no rinse
2. L767115-05		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD Hits in WG Blank10@@@% sediment, no rinse
3. L767115-07		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD - MS/MSD sample Hits in WG Blank10@@@% sediment, no rinse
4. L767115-09		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD EDD/QC4/DODHits in WG Blank10@@@% sediment, no rinse
5. L767150-01		80	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank20@@@% sediment, no rinse
6. L767150-02		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse
7. L767150-03		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse
8. L767150-04		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse

Comments:

SIM RVSYRINGE ESC30133DG614 changed ms/d volumes to reflect sediment 5/29/15.

Reviewed By:CBB298 on 05/29/15 11:15:11

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Allen Fuller
Date Released : 5/29/2015 11:27:09 AM

Run ID : 052815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0528_01	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/28/15 1104	"DFTPP TUNE"
2	0528_01T	TUNE SVMS 50 PPM 15B11028								1	05/28/15 1104	
3	0528_02	ICV SVMS 10K PPB 15D30944	S819E27O						1	1	05/28/15 1127	"8270 PRIMARY CALIBRATION"
4	0528_03	ICV TCL 10K1 PPB 15D30944	S819E27O						1	1	05/28/15 1150	"8270 TCL CALIBRATION"
5	0528_04	DNR BLANK	S819E27O	WG790391					1	0.005	05/28/15 1449	"water 15E04055/15E11539"
6	0528_05	BLANK	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1512	"water 15E04055/15E11539"
7	0528_06	LCS	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1535	"water 15E04055/15E11539"
8	0528_07	LCSD	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1559	"water 15E04055/15E11539"
9	0528_08	L767467-01	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1622	"water 15E04055/15E11539"
10	0528_09	L767467-02	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1645	"water 15E04055/15E11539"
11	0528_10	L767467-03	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1708	"water 15E04055/15E11539"
12	0528_11	L767467-04	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1757	"water 15E04055/15E11539"
13	0528_12	L767115-07	S819E27O	WG791778	8270	GW	URSTAZ	AZ	1	0.005	05/28/15 1819	"water 15E04055/15E11539"
14	0528_13	MS	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1842	"water 15E04055/15E11539"
15	0528_14	MSD	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1905	"water 15E04055/15E11539"
16	0528_15	L767246-01	S819E27O	WG791778	8270	GW	BNSF3PINN	ND	1	0.005	05/28/15 1928	"water 15E04055/15E11539"
17	0528_16	L767260-01	S819E27O	WG791778	8270	GW	BNSF3PINN	ND	1	0.005	05/28/15 1951	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Allen Fuller
Date Released : 5/28/2015 6:16:16 PM

Run ID : 052815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0528_01	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/28/15 1104	"DFTPP TUNE"
2	0528_01T	TUNE SVMS 50 PPM 15B11028								1	05/28/15 1104	
3	0528_02	ICV SVMS 10K PPB 15D30944	S819E27O						1	1	05/28/15 1127	"8270 PRIMARY CALIBRATION"
4	0528_03	ICV TCL 10K1 PPB 15D30944	S819E27O						1	1	05/28/15 1150	"8270 TCL CALIBRATION"
5	0528_04	DNR BLANK	S819E27O	WG790391					1	0.005	05/28/15 1449	"water 15E04055/15E11539"
6	0528_05	BLANK	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1512	"water 15E04055/15E11539"
7	0528_06	LCS	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1535	"water 15E04055/15E11539"
8	0528_07	LCSD	S819E27O	WG791778	8270	GW			1	0.005	05/28/15 1559	"water 15E04055/15E11539"
9	0528_08	L767467-01	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1622	"water 15E04055/15E11539"
10	0528_09	L767467-02	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1645	"water 15E04055/15E11539"
11	0528_10	L767467-03	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1708	"water 15E04055/15E11539"
12	0528_11	L767467-04	S819E27O	WG791778	8270	GW	MACTECSVA	VA	1	0.005	05/28/15 1757	"water 15E04055/15E11539"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 14:46:48 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

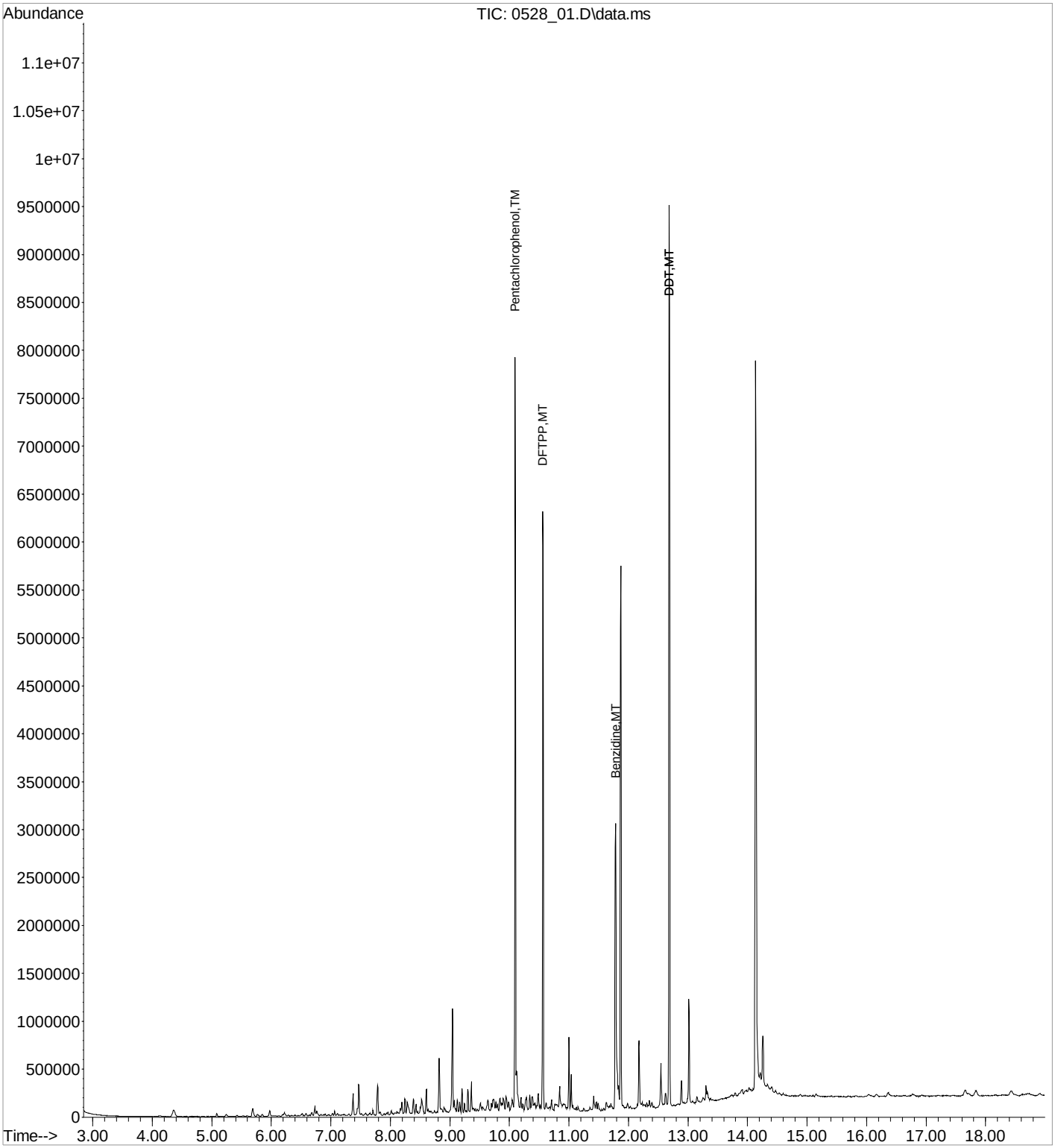
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	10.095	264	549078	94.0969009	ug/mL	100
2) DFTPP	10.560	198	669749	90.5205667	ug/mL	100
3) Benzidine	11.783	184	1765189	73.5445161	ug/mL	100
4) DDT	12.683	TIC	9474702	704.1131908	ug/ml	100
5) DDT	12.683	235	1806694	134.2646003	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

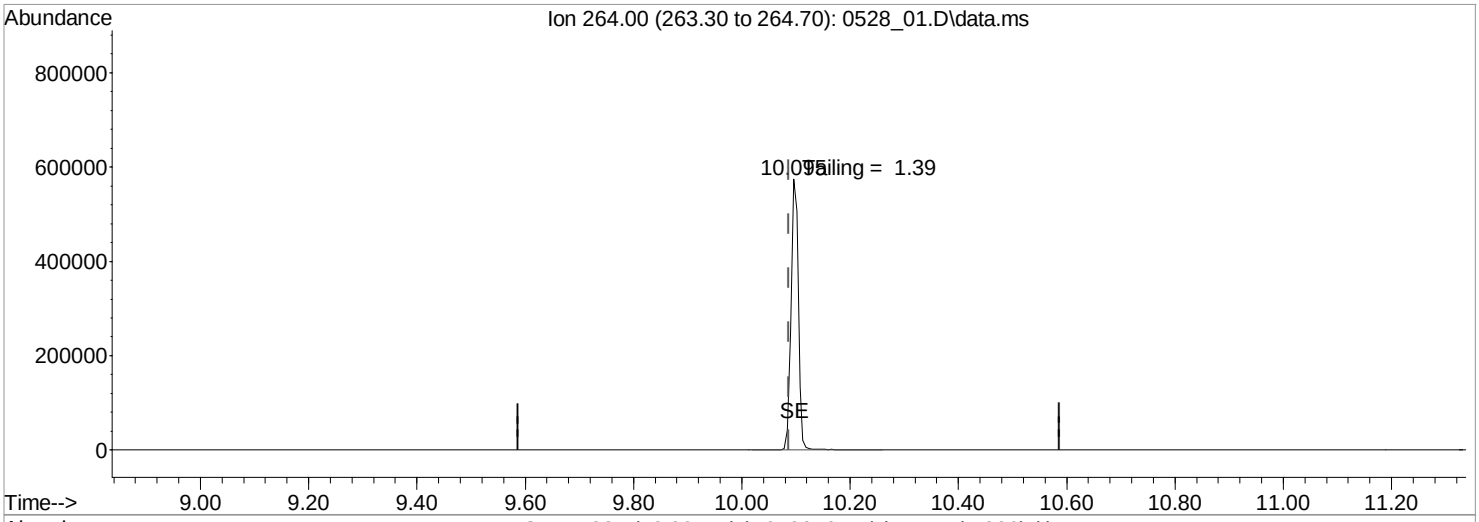
Quant Time: May 28 14:46:48 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

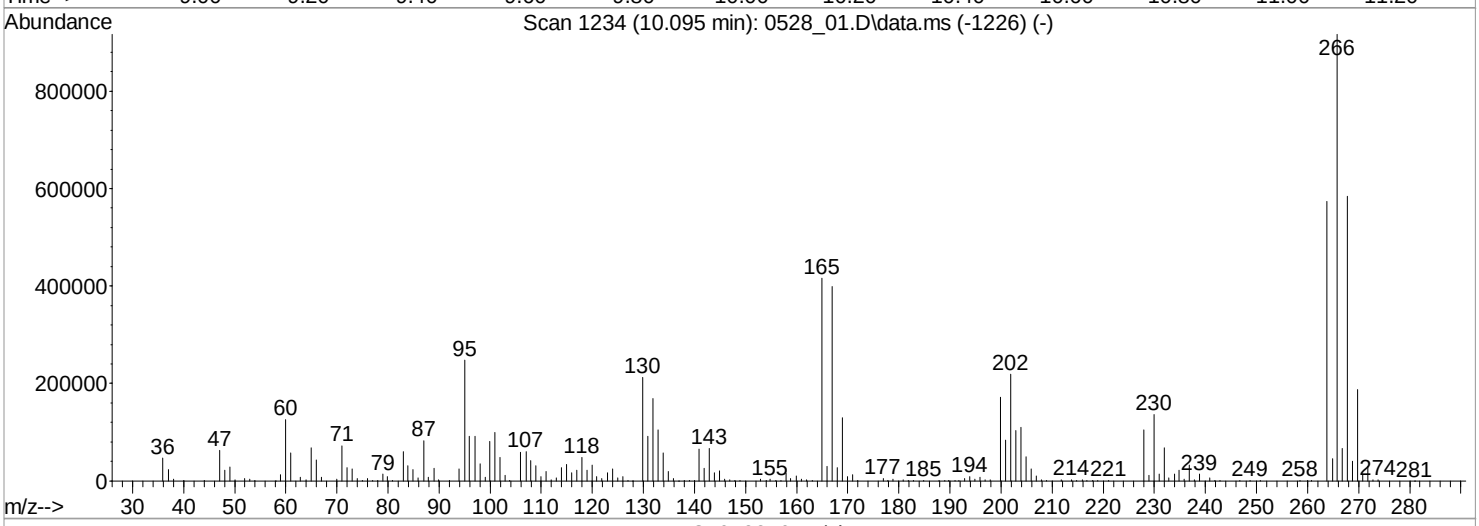


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 14:46:48 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0528_01.D\data.ms

(1) Pentachlorophenol (TM)

10.095min (+0.009) 94.0969009 ug/mL

Qvalue = 100

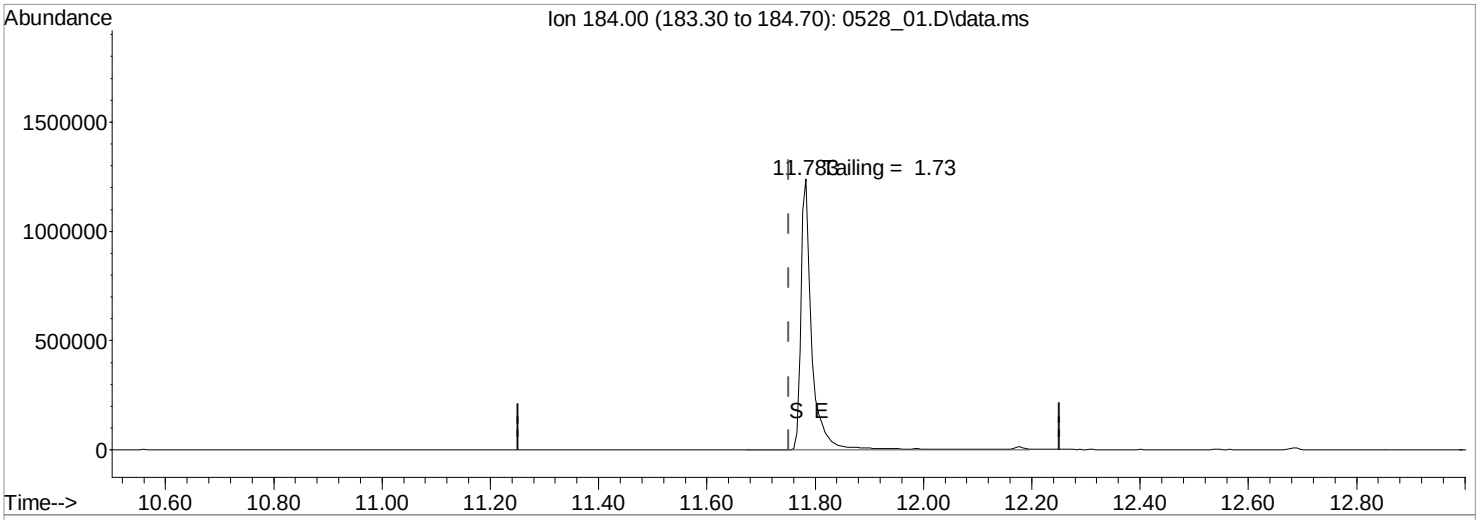
response 549078

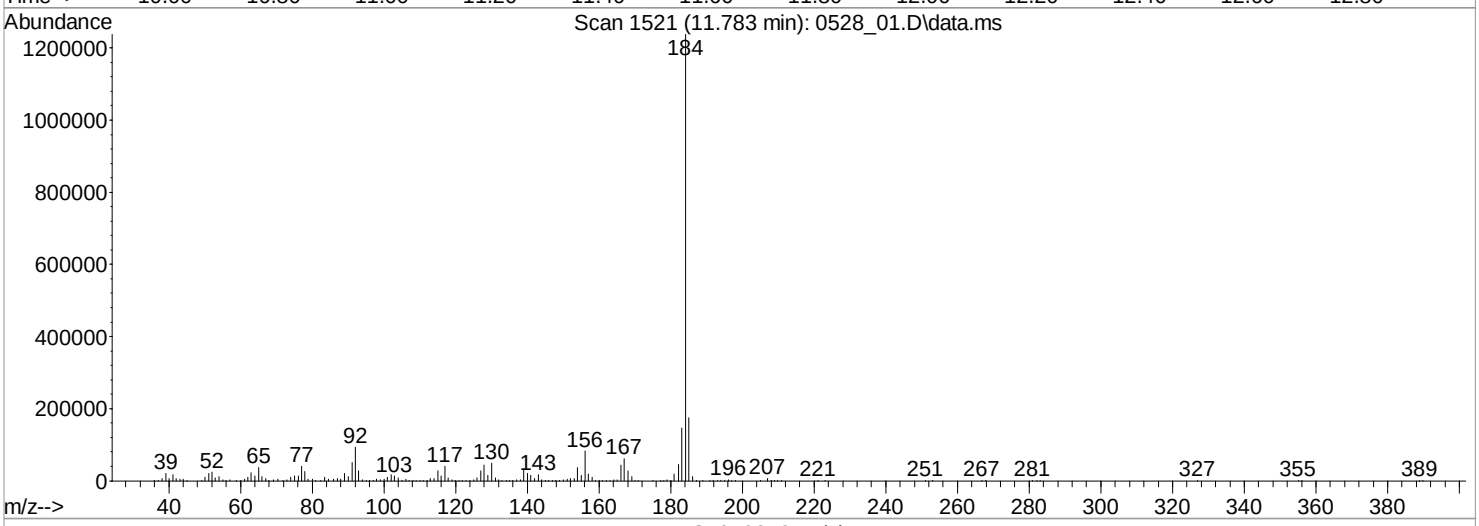
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 14:46:48 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0528_01.D\data.ms

(3) Benzidine (MT)

11.783min (+0.032) 73.5445161 ug/mL

Qvalue = 100

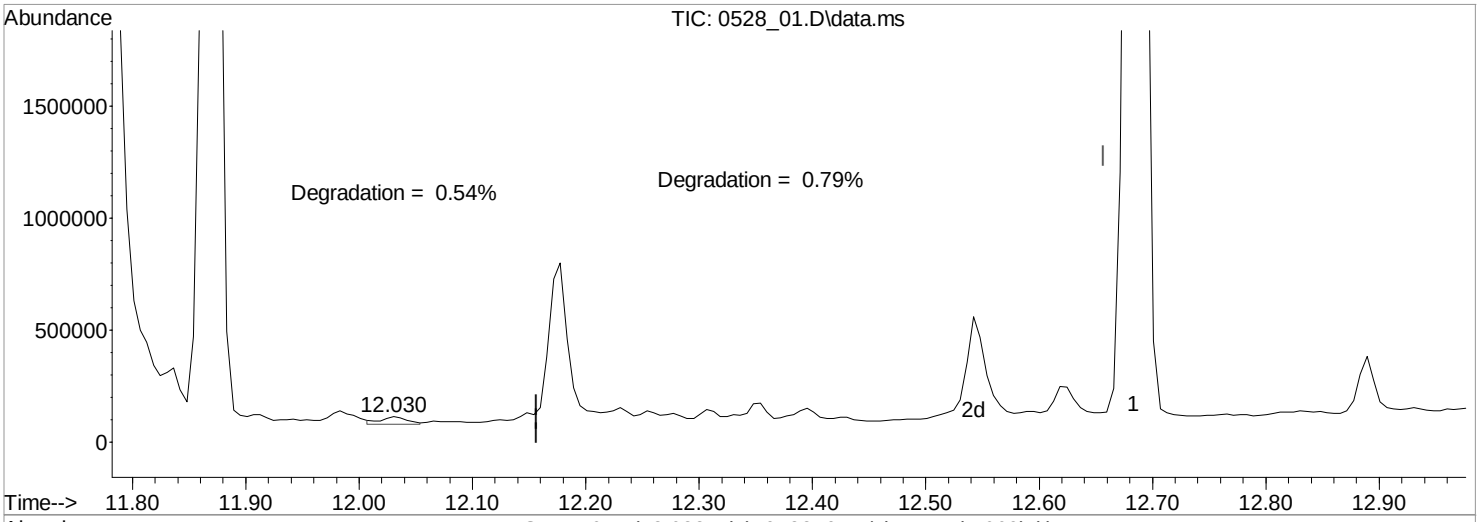
response 1765189

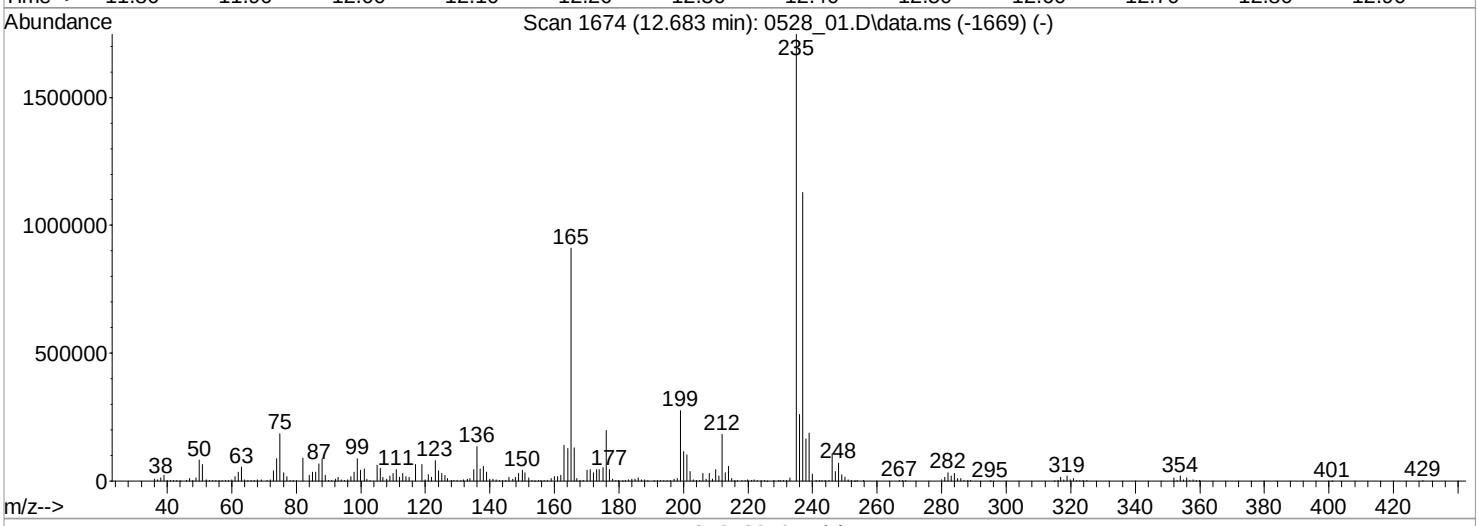
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 14:46:48 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0528_01.D\data.ms

(4) DDT (MT)

12.683min (+0.027) 704.1131908 ug/ml

Qvalue = 100

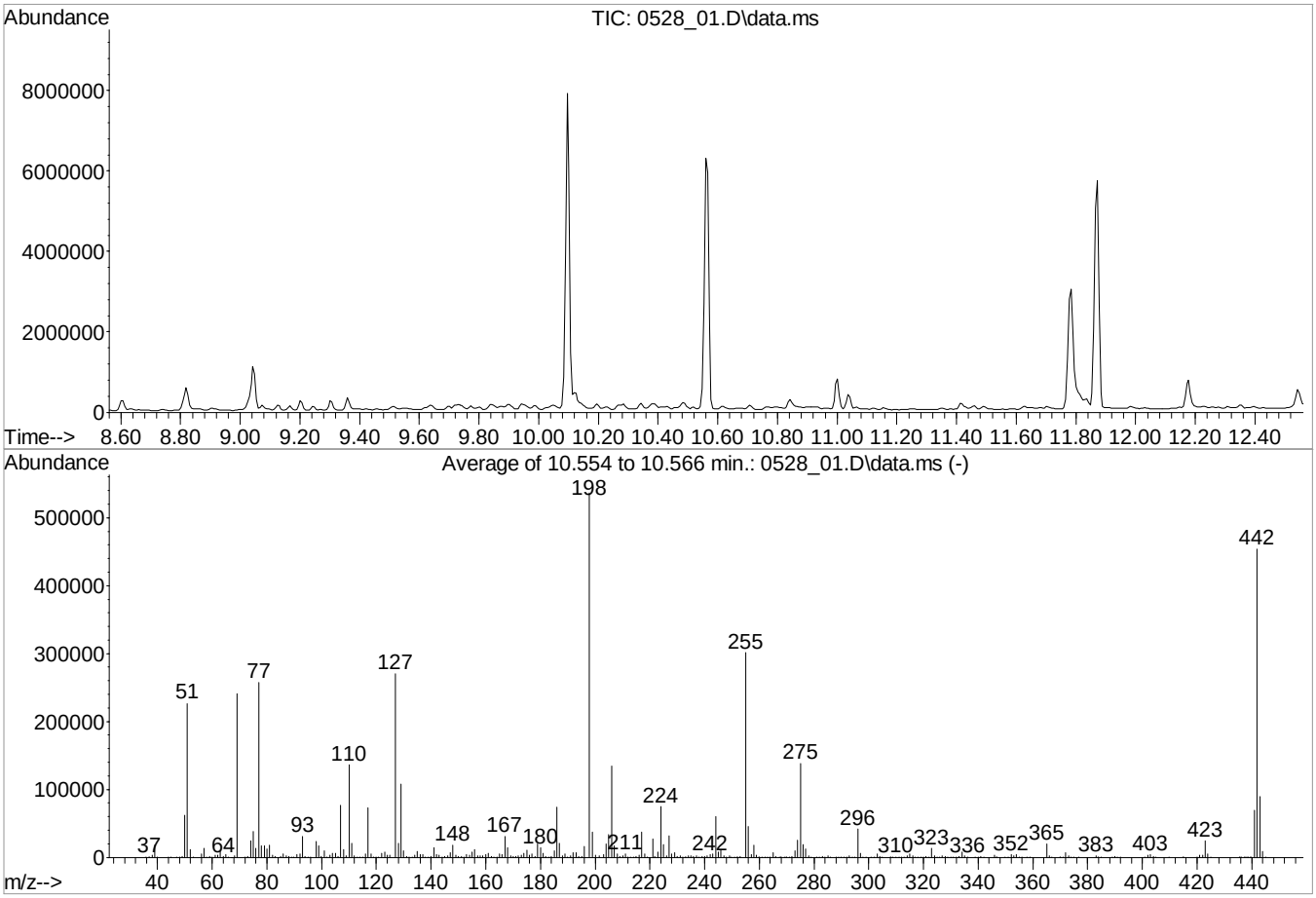
response 9474702

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 01.D
Acq On : 28 May 2015 11:04 am
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Tue May 21 10:58:22 2013



AutoFind: Scans 1312, 1313, 1314; Background Corrected with Scan 1305

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.2	226737	PASS
68	69	0.00	2	1.1	2693	PASS
69	198	0.00	100	45.0	241337	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.4	270782	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	536768	PASS
199	198	5	9	6.9	37011	PASS
275	198	10	30	25.8	138517	PASS
365	198	1	100	3.8	20142	PASS
441	443	0.01	100	77.7	69736	PASS
442	198	40	100	84.5	453720	PASS
443	442	17	23	19.8	89760	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:27 am
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 17:13:52 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	165556	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	631590	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	440976	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	828186	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	917409	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	880741	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.349	112	219528	9877.3725775 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 49386.86%#		
7) Phenol-d5	5.096	99	297145	9899.3153056 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 49496.58%#		
23) Nitrobenzene-d5	6.031	82	292051	9941.3764097 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 99413.76%#		
44) 2-Fluorobiphenyl	7.931	172	687224	9558.8080314 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 95588.08%#		
67) 2,4,6-Tribromophenol	9.542	330	127491	10048.8189053 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 50244.09%#		
81) p-Terphenyl-d14	12.042	244	979540	9659.5226684 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 96595.23%#		
Target Compounds					Qvalue
2) Pyridine	3.408	79	296326	9720.6032521 ppb	99
3) N-Nitrosodimethylamine	3.372	42	154369	9783.4461656 ppb	96
5) Aniline	5.184	66	142711	9919.4799907 ppb	96
6) bis(2-Chloroethyl)ether	5.225	63	188401	9610.2360660 ppb	96
8) Phenol	5.107	94	305630	9907.7172524 ppb	96
9) Benzaldehyde	5.096	105	391	30.3720750 ppb #	1
10) 2-Chlorophenol	5.296	128	267610	9781.9690949 ppb	98
11) n-Decane	5.313	41	162278	9226.5147990 ppb	98
12) 1,3-Dichlorobenzene	5.449	146	309749	9799.0484016 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	314646	9720.0116077 ppb	98
14) Benzyl Alcohol	5.601	79	220471	9585.2772039 ppb	99
15) 1,2-Dichlorobenzene	5.660	146	302625	9741.9505813 ppb	98
16) bis(2-Chloroisopropyl)...	5.737	121	85350	9396.9368414 ppb	94
17) 2-Methylphenol	5.690	108	230591	9730.4546984 ppb	99
18) Hexachloroethane	6.001	117	133202	9685.5020785 ppb	97
19) N-Nitrosodi-n-propylamine	5.860	70	176226	10250.6188337 ppb	95
20) 3&4-Methyl phenol	5.837	107	268295	9741.3966513 ppb	99
21) Acetophenone	5.837	105	2814	74.9193034 ppb #	1
24) Nitrobenzene	6.054	77	292658	9754.6195267 ppb	93
25) Isophorone	6.290	82	519861	9899.2311876 ppb	100
26) 2-Nitrophenol	6.378	139	153536	10226.7204403 ppb	92
27) 2,4-Dimethylphenol	6.384	107	276605	9704.8384705 ppb	98
28) bis(2-Chlorethoxy)methane	6.496	93	323838	9650.3278219 ppb	99
29) 2,4-Dichlorophenol	6.613	162	253033	9709.2500956 ppb	97
30) Benzoic Acid	6.384	105	9069	977.2916686 ppb #	1
31) 1,2,4-Trichlorobenzene	6.719	180	290063	9499.9712871 ppb	98
32) Naphthalene	6.807	128	831578	9448.8413417 ppb	99
33) 4-Chloroaniline	6.843	65	105141	9508.2118766 ppb	91
34) Hexachloro-1,3-butadiene	6.925	225	181083	9662.9376965 ppb	98
35) Caprolactam	7.331	113	7718	933.7785239 ppb #	35
36) 4-Chloro-3-methylphenol	7.331	107	245550	9566.0474055 ppb	99
37) 2-Methylnaphthalene	7.543	142	608691	9617.4375263 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:27 am
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 17:13:52 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

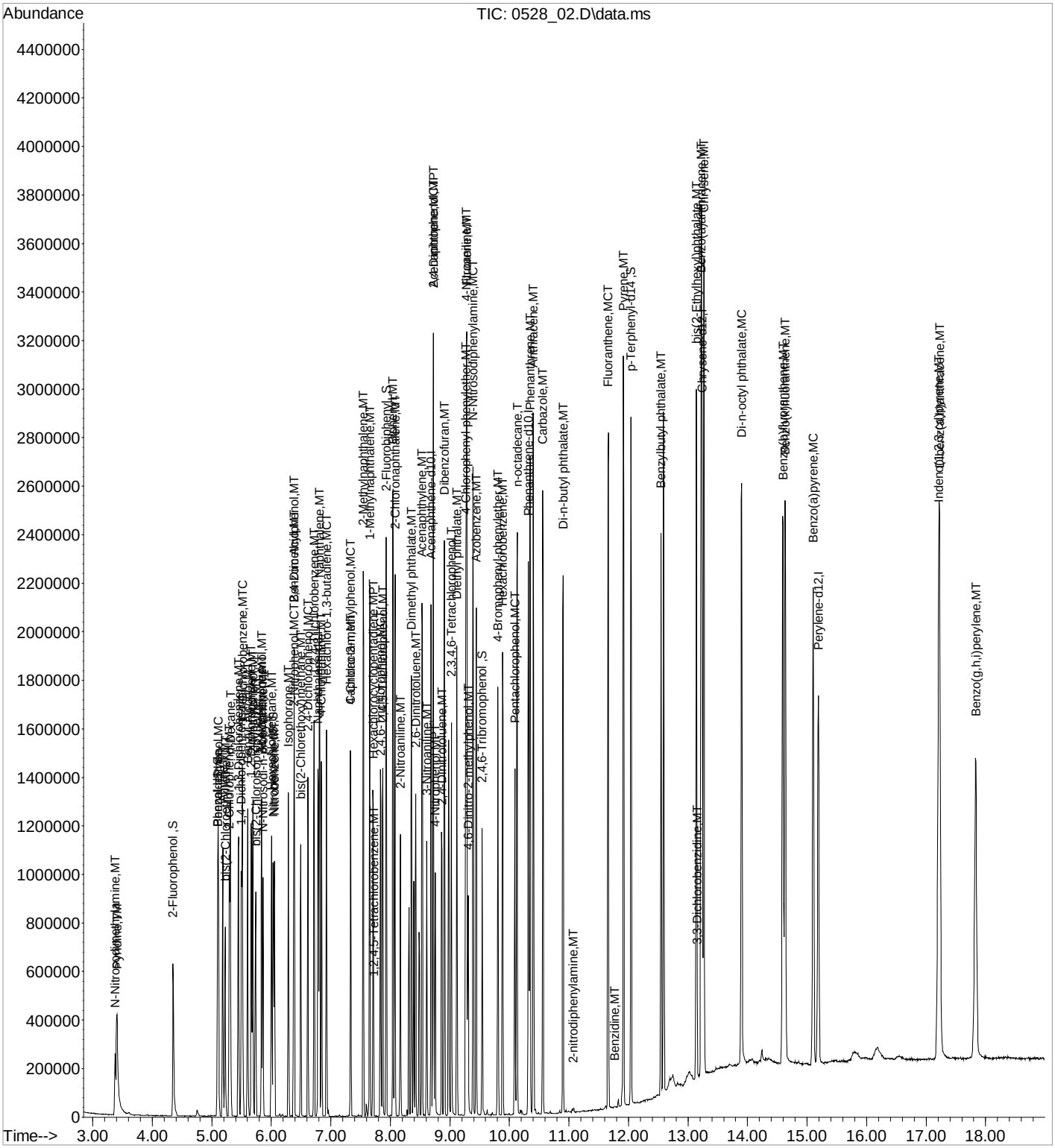
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	538595	9516.6325921 ppb		98
39)	1,2,4,5-Tetrachloroben...	7.719	216	56	1.8406079 ppb	#	18
41)	Hexachlorocyclopentadiene	7.713	237	226184	9714.3227282 ppb		97
42)	2,4,6-Trichlorophenol	7.837	196	199567	9615.4238002 ppb		93
43)	2,4,5-Trichlorophenol	7.872	196	214427	9684.2335599 ppb		98
45)	Biphenyl	8.043	154	765156	9800.1408284 ppb		100
46)	2-Chloronaphthalene	8.078	162	608736	9503.9314700 ppb		98
47)	2-Nitroaniline	8.166	138	190767	10386.2777756 ppb		94
48)	Acenaphthylene	8.531	152	963260	9923.7761627 ppb		99
49)	Dimethyl phthalate	8.354	163	690505	9707.0068920 ppb		97
50)	2,6-Dinitrotoluene	8.425	165	163436	10270.5858868 ppb		95
51)	3-Nitroaniline	8.613	138	169018	10427.0802168 ppb		97
52)	Acenaphthene	8.719	153	623236	9699.3124901 ppb		99
53)	2,4-Dinitrophenol	8.719	184	85137	8092.2913676 ppb	#	86
54)	Dibenzofuran	8.907	168	895787	9639.6736287 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	218609	10490.3943358 ppb		94
56)	2,3,4,6-Tetrachlorophenol	9.025	232	190116	11975.6196031 ppb		99
57)	4-Nitrophenol	8.754	139	139473	10263.0801927 ppb		93
58)	Fluorene	9.284	166	746107	9612.2744937 ppb		99
59)	4-Chlorophenyl-phenyle...	9.266	204	368413	9511.1164553 ppb		98
60)	Diethyl phthalate	9.119	149	703482	9833.5245236 ppb		99
61)	4-Nitroaniline	9.278	138	172713	11358.2925083 ppb		97
62)	Azobenzene	9.442	77	719789	9837.1328950 ppb		97
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	125874	8997.4224247 ppb		91
66)	N-Nitrosodiphenylamine	9.389	169	628517	9793.3136657 ppb		100
68)	4-Bromophenyl-phenylether	9.807	248	222723	9643.2817438 ppb		95
69)	Hexachlorobenzene	9.884	284	257966	9529.6500491 ppb		97
70)	n-octadecane	10.131	55	103964	9039.3153046 ppb		99
71)	Pentachlorophenol	10.089	266	151141	9650.9195177 ppb		99
72)	Phenanthrene	10.348	178	1137250	9483.0328361 ppb		99
73)	Anthracene	10.401	178	1136680	9892.2971552 ppb		99
74)	Carbazole	10.560	167	1054930	10010.1104702 ppb		100
75)	Di-n-butyl phthalate	10.901	149	1224212	9744.3729765 ppb		99
76)	2-nitrodiphenylamine	11.072	167	861	738.0656058 ppb	#	1
77)	Fluoranthene	11.660	202	1275981	9800.8218714 ppb		99
79)	Benzidine	11.766	184	2335	42.1667888 ppb		93
80)	Pyrene	11.913	202	1321859	10035.9707384 ppb		100
82)	Benzylbutyl phthalate	12.548	149	584898	9869.0005238 ppb		98
83)	3,3-Dichlorobenzidine	13.154	252	112	2.3954579 ppb	#	31
84)	Benzo(a)anthracene	13.219	228	1332984	9941.7576557 ppb		99
85)	Chrysene	13.266	228	1285679	9535.9885156 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.142	149	876925	9731.9564045 ppb		100
87)	Di-n-octyl phthalate	13.901	149	1508739	10032.1100428 ppb		100
89)	Benzo(b)fluoranthene	14.595	252	1342288	9590.4655695 ppb		98
90)	Benzo(k)fluoranthene	14.630	252	1252941	9382.5400145 ppb		99
91)	Benzo(a)pyrene	15.101	252	1255572	9530.2992017 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.212	276	1481964	9794.7206713 ppb		99
93)	Dibenz(a,h)anthracene	17.224	278	1259180	9674.2049648 ppb		99
94)	Benzo(g,h,i)perylene	17.836	276	1248757	9857.6468139 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:27 am
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 17:13:52 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052815\
Data File : 0528 02.D
Acq On    : 28 May 2015  11:27 am
Operator  : 377
Sample    : ICV SVMS 10K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: May 28 17:13:52 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration
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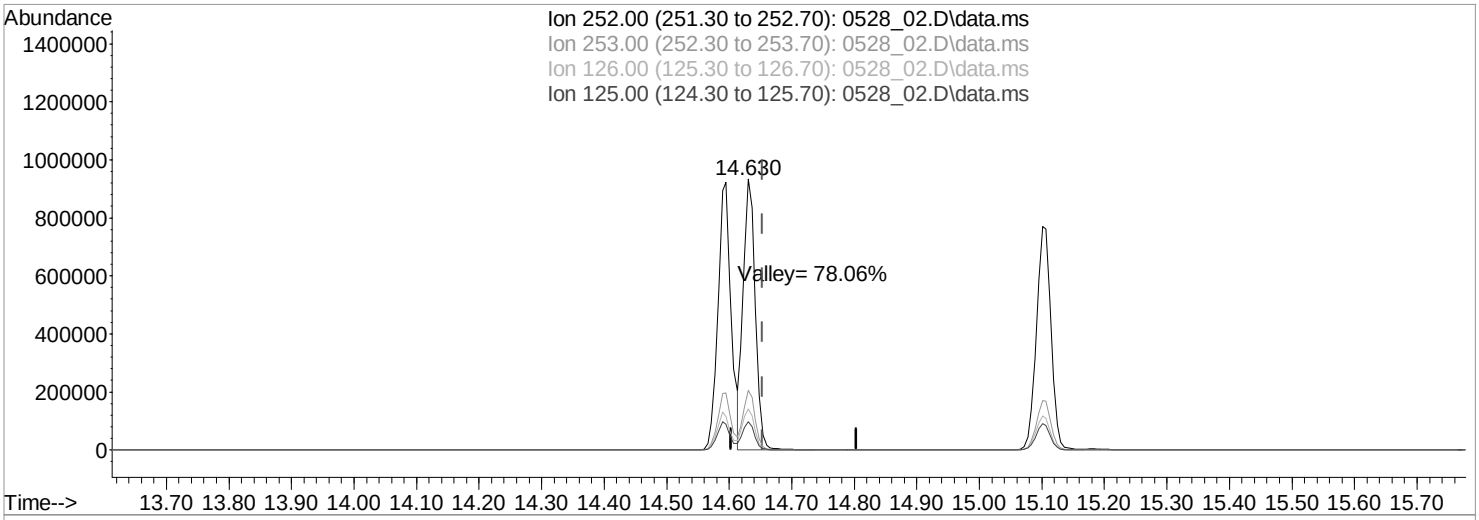
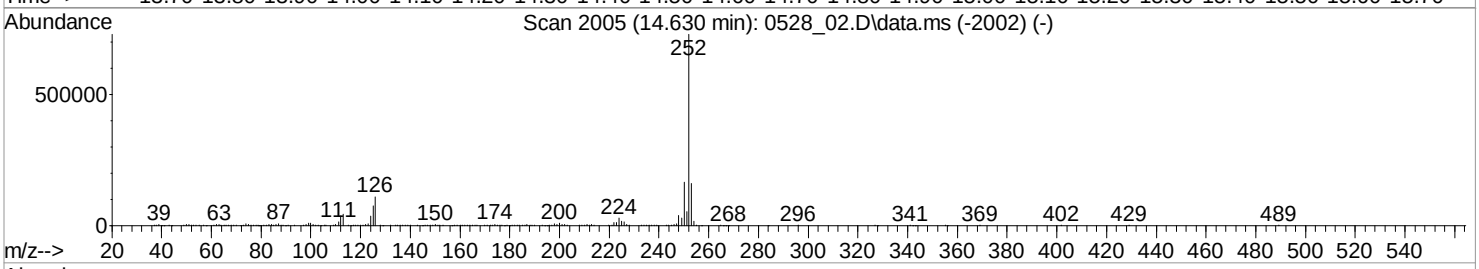
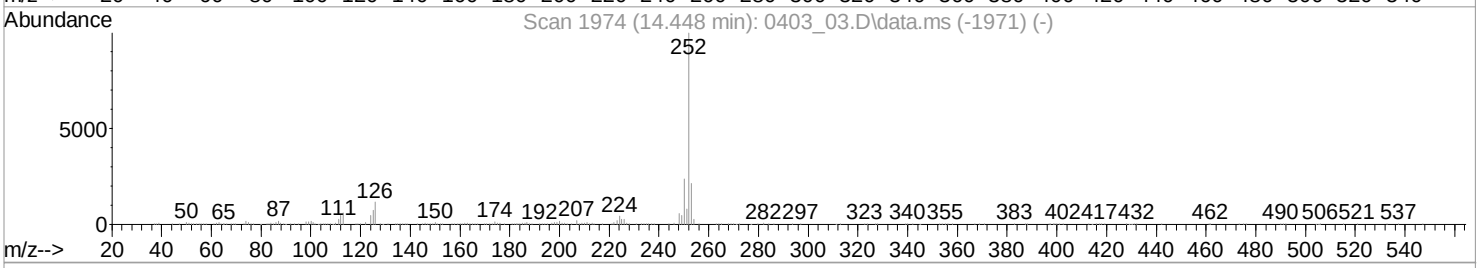






TIC: 0528_02.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.630min (-0.023) 9382.5400145 ppb

Qvalue = 99

response 1252941

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.92
126.00	14.60	15.19
125.00	9.70	10.33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 am
Operator : 377
Sample : ICV TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 17:13:56 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	169624	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	640445	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	435814	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	821840	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	858577	8000.0000000 ppb	0.00
88) Perylene-d12	15.183	264	828502	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.995	172	191	2.6881442 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 26.88%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.443	79	63	2.0170731 ppb #	27
3) N-Nitrosodimethylamine	3.378	42	202	12.4951295 ppb #	11
5) Aniline	5.101	66	126	8.5479038 ppb #	1
6) bis(2-Chloroethyl)ether	5.096	63	3818	190.0834916 ppb #	7
8) Phenol	5.107	94	267	8.4478561 ppb #	1
9) Benzaldehyde	5.096	105	125064	9481.7313370 ppb	98
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.360	41	3173	176.0782579 ppb #	52
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.872	107	1744	61.8034549 ppb #	1
21) Acetophenone	5.872	105	371256	9647.1880271 ppb	100
24) Nitrobenzene	6.060	77	55	1.8078651 ppb #	32
25) Isophorone	6.284	82	68	1.2769578 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.401	107	183	6.3318815 ppb #	1
28) bis(2-Chlorethoxy)methane	6.437	93	511	15.0171861 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.437	105	140172	9162.3230746 ppb #	60
31) 1,2,4-Trichlorobenzene	6.713	180	930	30.0376749 ppb #	72
32) Naphthalene	6.807	128	162	1.8152815 ppb	70
33) 4-Chloroaniline	6.784	65	1834	163.5608973 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.190	113	79475	9482.5043243 ppb	97
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 am
Operator : 377
Sample : ICV TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 17:13:56 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

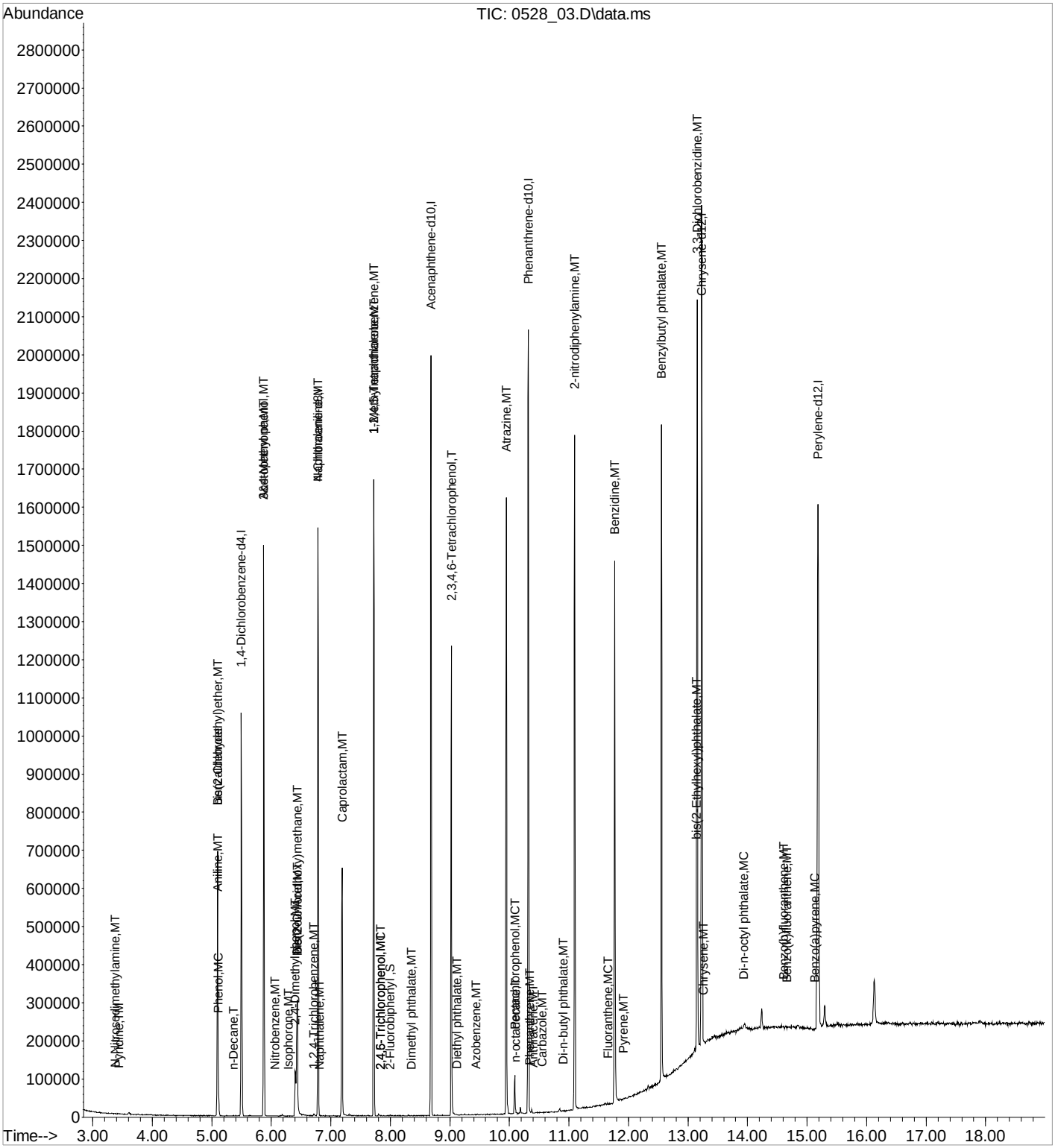
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	7.719	142	2016	35.1289298 ppb #	40
39)	1,2,4,5-Tetrachloroben...	7.719	216	291914	9461.9704593 ppb	99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	7.831	196	54	2.6326143 ppb #	46
43)	2,4,5-Trichlorophenol	7.831	196	54	2.4677055 ppb #	56
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.354	163	192	2.7310743 ppb #	64
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	9.025	232	149652	9538.4020866 ppb	96
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.113	149	265	3.7481405 ppb #	62
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.437	77	58	0.8020568 ppb #	1
63)	Atrazine	9.948	200	180745	9536.3899614 ppb	98
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.101	55	1578	138.2611495 ppb #	32
71)	Pentachlorophenol	10.089	266	13131	844.9379439 ppb	94
72)	Phenanthrene	10.342	178	252	2.1175441 ppb	70
73)	Anthracene	10.401	178	142	1.2453399 ppb	64
74)	Carbazole	10.554	167	144	1.3769505 ppb #	62
75)	Di-n-butyl phthalate	10.901	149	439	3.5212949 ppb	78
76)	2-nitrodiphenylamine	11.095	167	233557	8853.9394424 ppb	99
77)	Fluoranthene	11.654	202	155	1.1997496 ppb #	41
79)	Benzidine	11.772	184	596224	11504.7409274 ppb	99
80)	Pyrene	11.913	202	142	1.1519837 ppb #	58
82)	Benzylbutyl phthalate	12.554	149	825	14.8741011 ppb #	1
83)	3,3-Dichlorobenzidine	13.154	252	439777	10050.4793400 ppb	99
84)	Benzo(a)anthracene	13.230	228	2213	Below Cal #	1
85)	Chrysene	13.260	228	78	0.6181751 ppb #	53
86)	bis(2-Ethylhexyl)phtha...	13.142	149	4407	52.2594097 ppb #	65
87)	Di-n-octyl phthalate	13.936	149	1548	10.9984852 ppb	67
89)	Benzo(b)fluoranthene	14.607	252	720	5.4686626 ppb #	1
90)	Benzo(k)fluoranthene	14.666	252	182	1.4488247 ppb	78
91)	Benzo(a)pyrene	15.130	252	178	1.4362815 ppb	67
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 am
Operator : 377
Sample : ICV TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 17:13:56 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 05.D
Acq On : 28 May 2015 3:12 pm
Operator : 377
Sample : BLANK 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005

Quant Time: May 28 17:20:27 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	163740	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	613309	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	418621	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	791360	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	818744	8000.0000000 ppb	0.00
88) Perylene-d12	15.183	264	798480	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	32662	7.4294118 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 37.15%		
7) Phenol-d5	5.096	99	29576	4.9812267 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 24.91%		
23) Nitrobenzene-d5	6.031	82	28478	4.9914097 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 49.91%		
44) 2-Fluorobiphenyl	7.931	172	83107	6.0884532 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 60.88%		
67) 2,4,6-Tribromophenol	9.542	330	30814	12.7088825 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 63.54%		
81) p-Terphenyl-d14	12.042	244	106538	5.8860358 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 58.86%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.390	42	127	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	5.107	94	294	N.D.	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.313	41	2077	0.5970005 ppb #	96
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.872	105	548	N.D.	
24) Nitrobenzene	6.031	77	60	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.331	113	57	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 05.D
Acq On : 28 May 2015 3:12 pm
Operator : 377
Sample : BLANK 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005

Quant Time: May 28 17:20:27 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

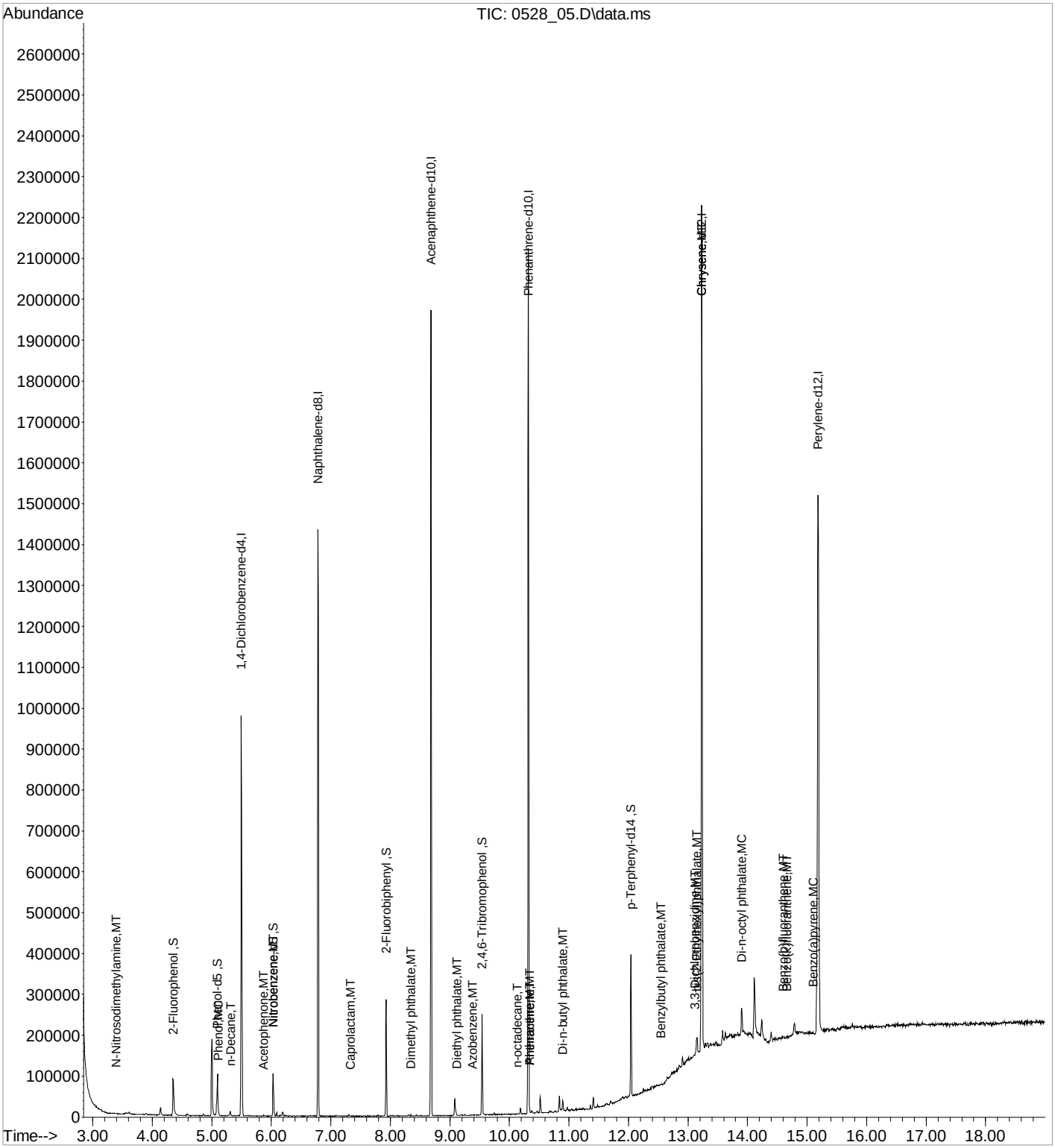
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.348	163	1329	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.113	149	327	N.D.	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.384	77	55	N.D.	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.131	55	197	N.D.	
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.342	178	59	N.D.	
73)	Anthracene	10.342	178	59	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.895	149	12921	0.5381672 ppb	97
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	12.548	149	870	N.D.	
83)	3,3-Dichlorobenzidine	13.113	252	64	N.D.	
84)	Benzo(a)anthracene	13.230	228	1937	Below Cal #	1
85)	Chrysene	13.230	228	1937	N.D.	
86)	bis(2-Ethylhexyl)phtha...	13.148	149	23956	1.4894876 ppb #	66
87)	Di-n-octyl phthalate	13.901	149	38068m	1.4181530 ppb	
89)	Benzo(b)fluoranthene	14.601	252	306	N.D.	
90)	Benzo(k)fluoranthene	14.660	252	198	N.D.	
91)	Benzo(a)pyrene	15.107	252	139	N.D.	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

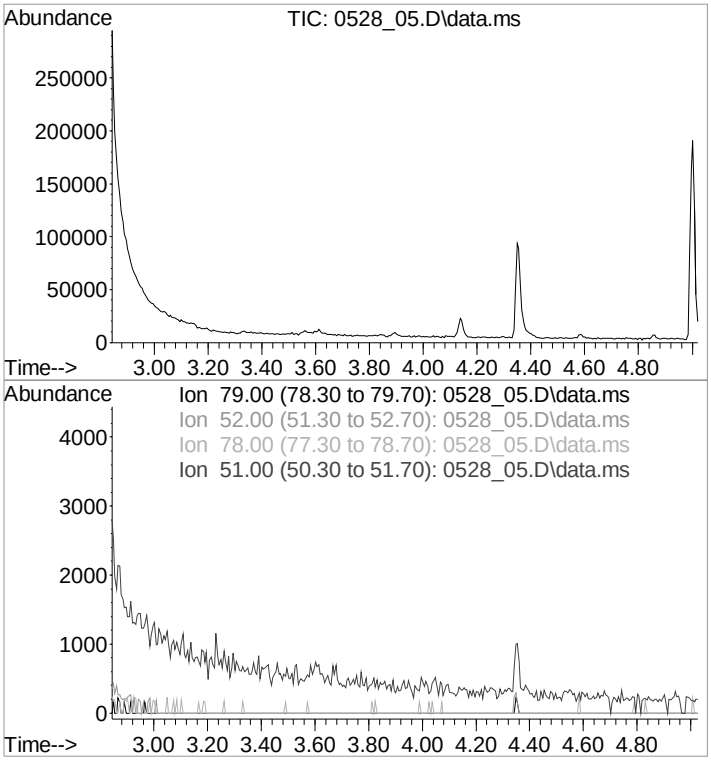
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 05.D
Acq On : 28 May 2015 3:12 pm
Operator : 377
Sample : BLANK 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005

Quant Time: May 28 17:20:27 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



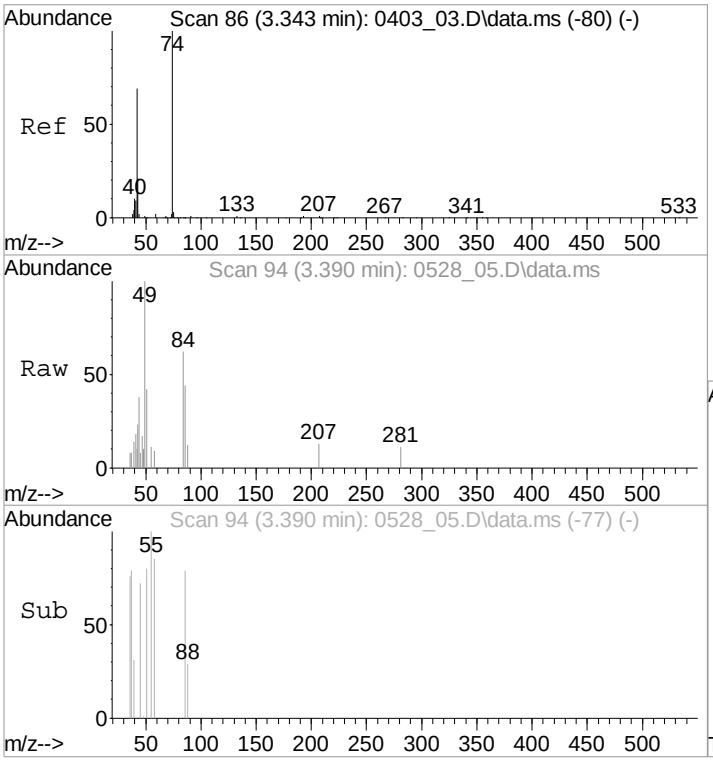


#2
Pyridine
Concen: N.D.
Expected RT: 3.42 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 79

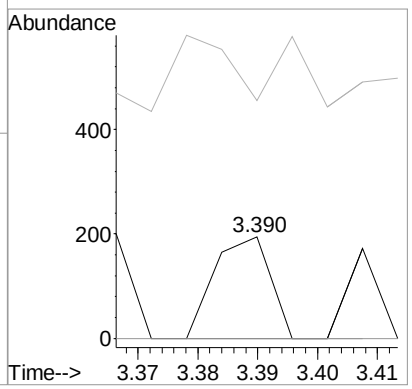
Sig	Exp Ratio
79	100
52	70.5
78	11.9
51	39.1

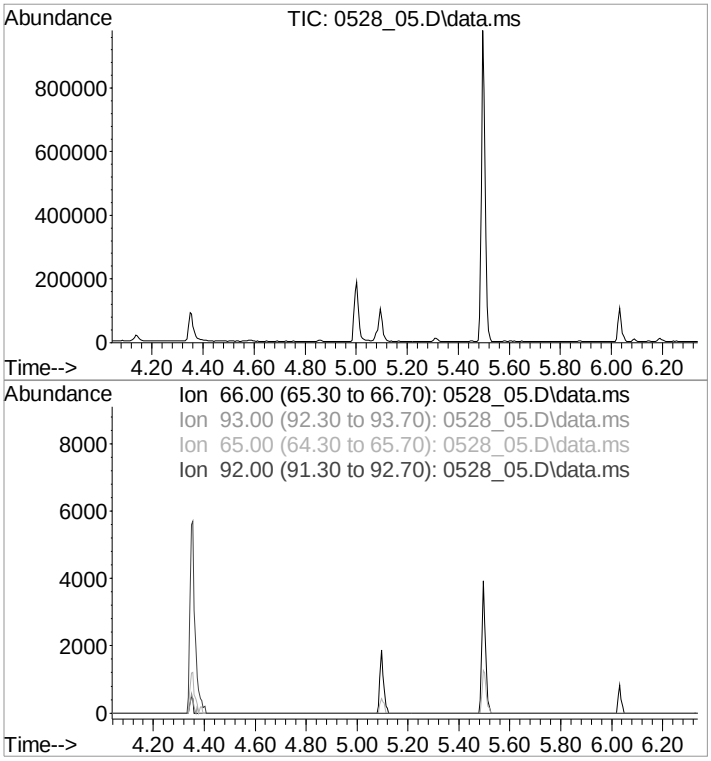


#3
N-Nitrosodimethylamine
Concen: Below Cal
RT: 3.390 min Scan# 94
Delta R.T. 0.000 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 42 Resp: 127

Ion	Ratio	Lower	Upper
42	100		
74	0.0	77.0	117.0#
43	0.0	24.2	64.2#



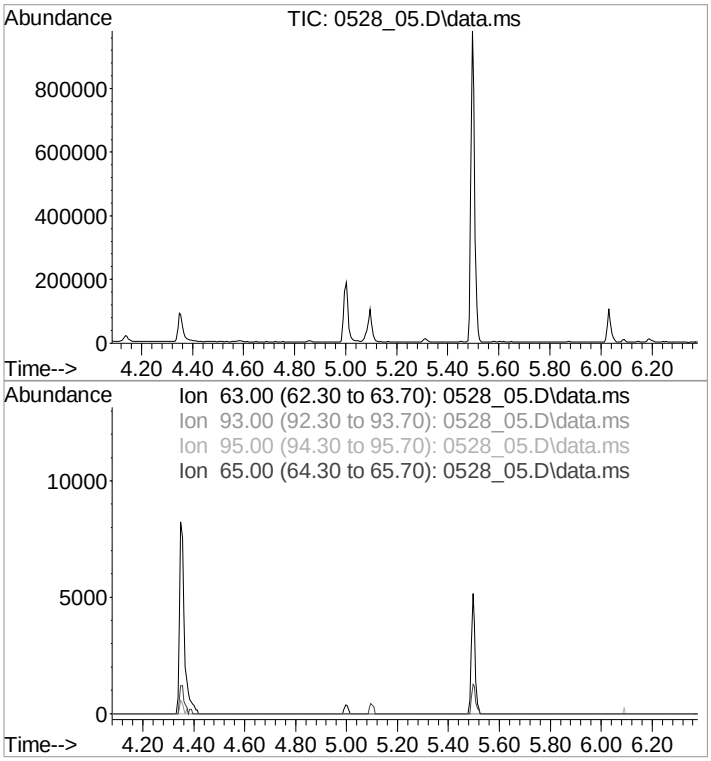


#5
Aniline
Concen: N.D.
Expected RT: 5.19 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 66

Sig	Exp Ratio
66	100
93	254.2
65	52.1
92	31.2

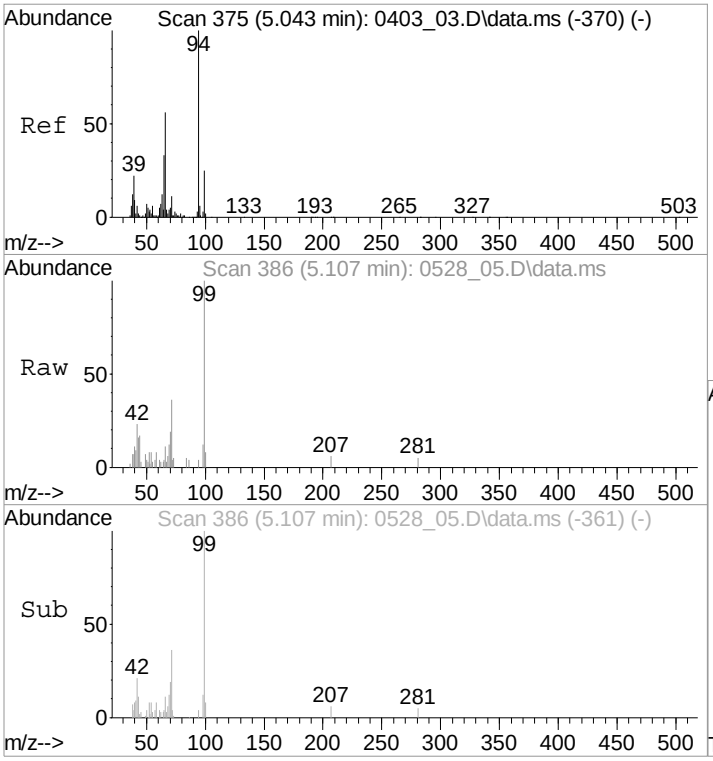


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.23 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 63

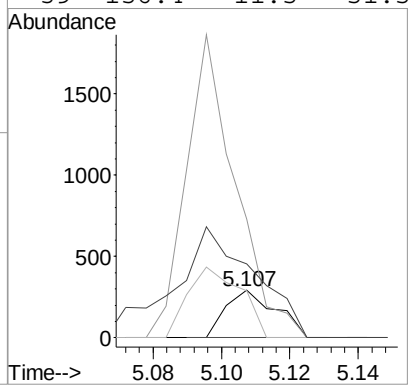
Sig	Exp Ratio
63	100
93	126.6
95	41.5
65	31.6

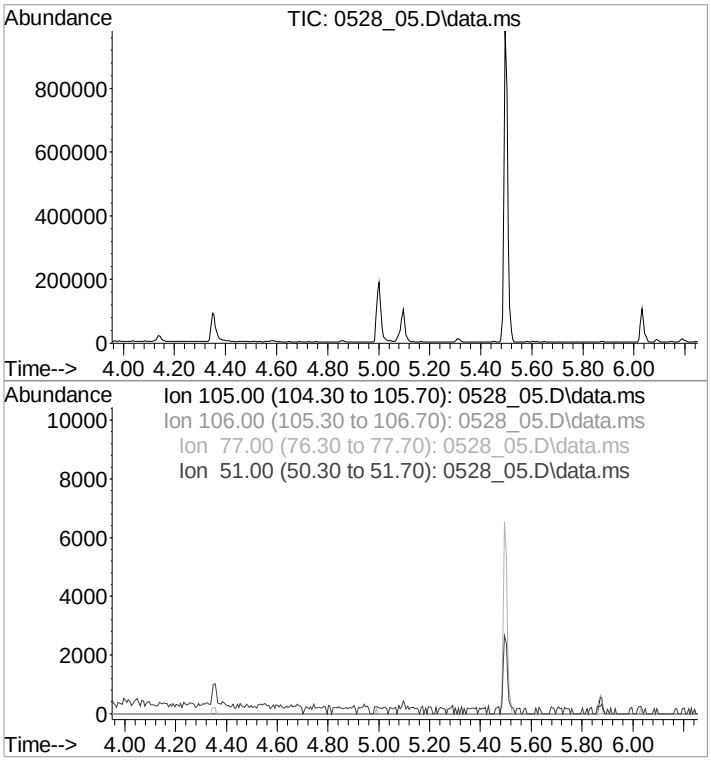


#8
Phenol
Concen: Below Cal
RT: 5.107 min Scan# 386
Delta R.T. -0.006 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 94 Resp: 294

Ion	Ratio	Lower	Upper
94	100		
66	251.2	22.8	62.8#
65	99.3	12.5	52.5#
39	156.4	11.5	51.5#



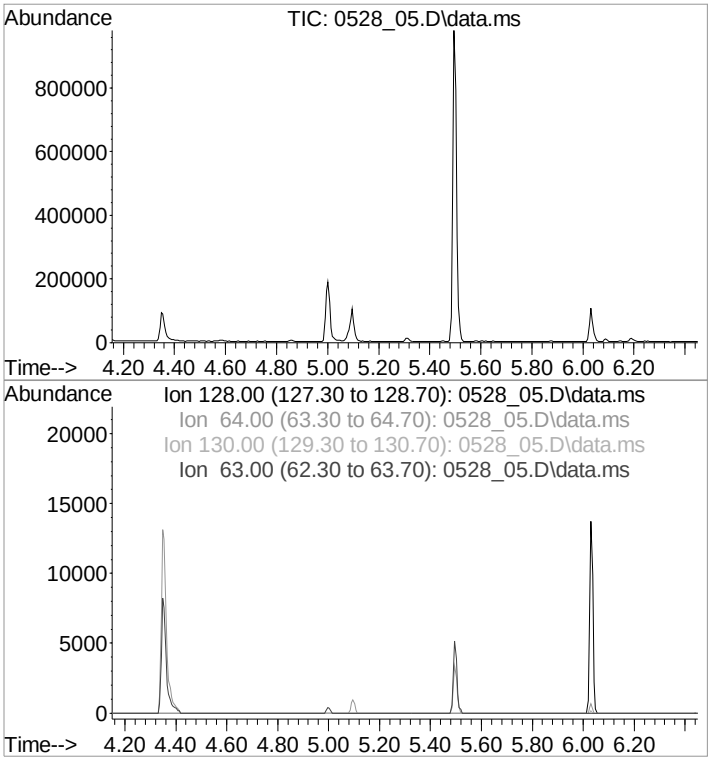


#9
Benzaldehyde
Concen: N.D.
Expected RT: 5.10 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
106	97.0
77	102.7
51	56.5

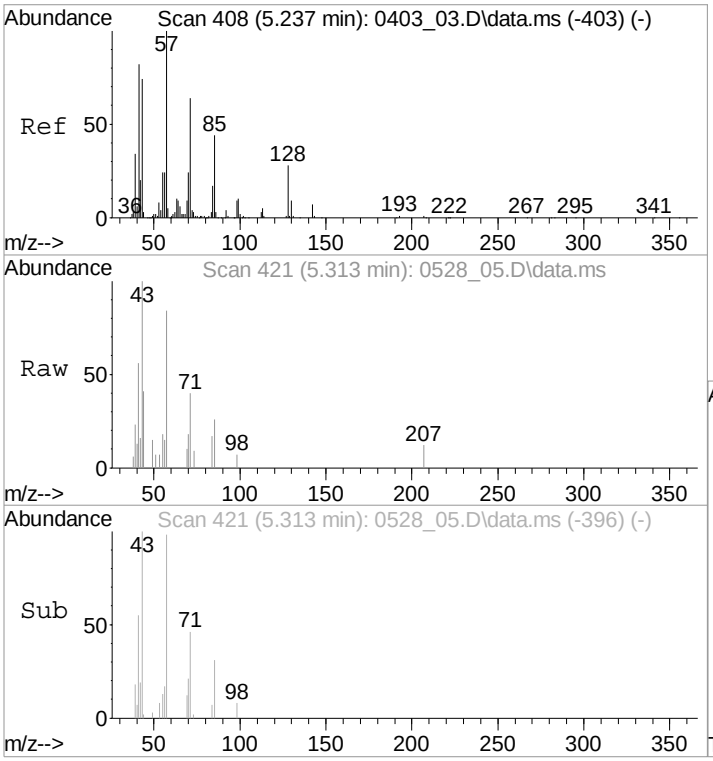


#10
2-Chlorophenol
Concen: N.D.
Expected RT: 5.30 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 128

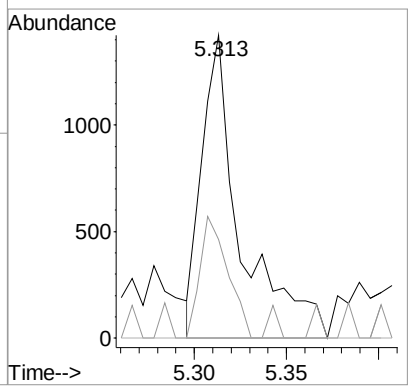
Sig	Exp Ratio
128	100
64	44.1
130	32.0
63	31.6

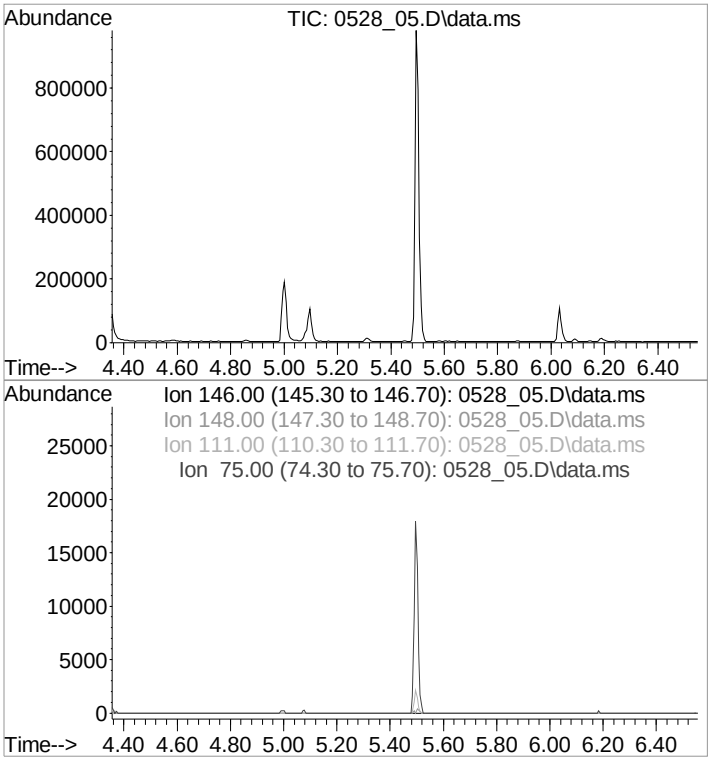


#11
n-Decane
Concen: 0.5970005 ppb
RT: 5.313 min Scan# 421
Delta R.T. -0.006 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 41 Resp: 2077

Ion	Ratio	Lower	Upper
41	100		
55	29.0	24.9	37.3
67	0.0	2.3	3.5#



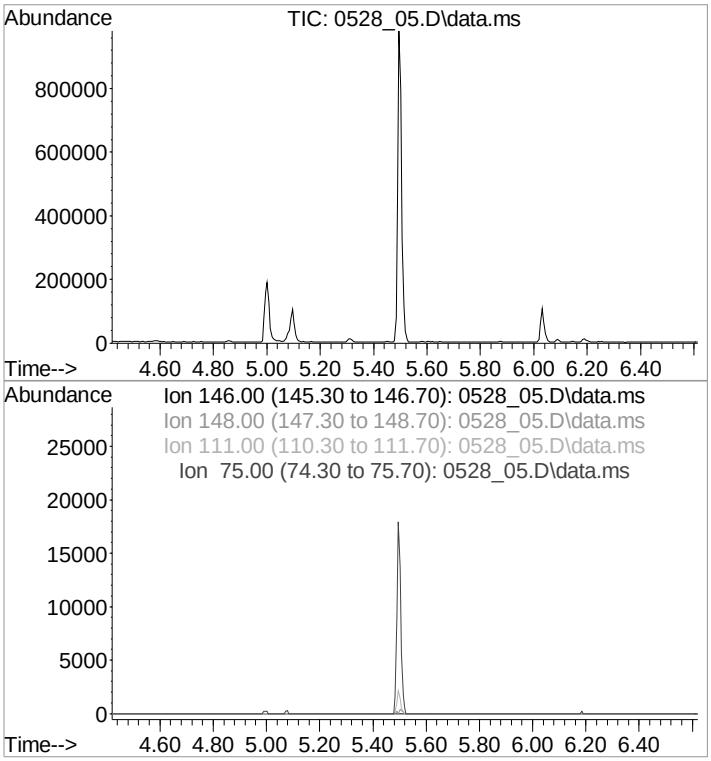


#12
1,3-Dichlorobenzene
Concen: N.D.
Expected RT: 5.45 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	65.7
111	40.3
75	32.0

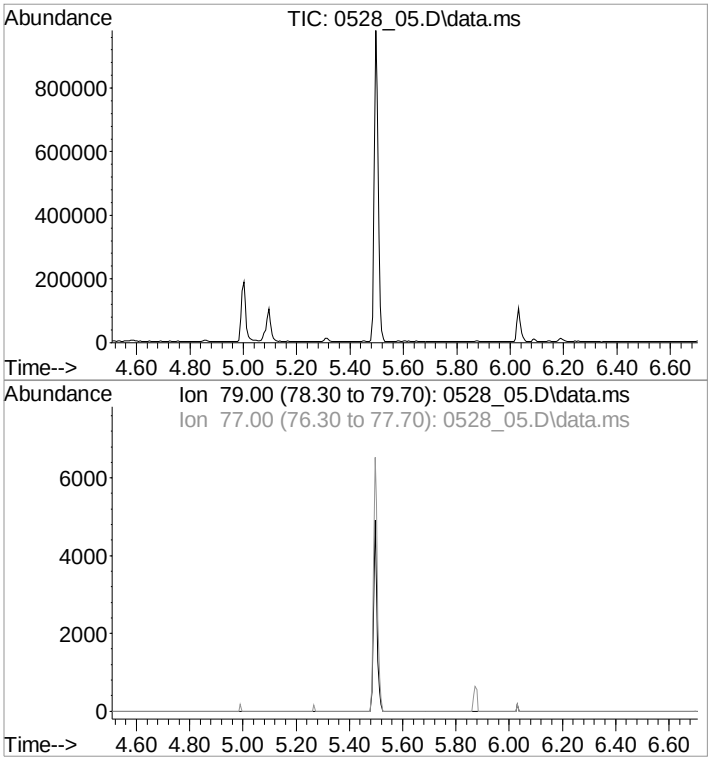


#13
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 5.52 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.7
111	40.2
75	35.0

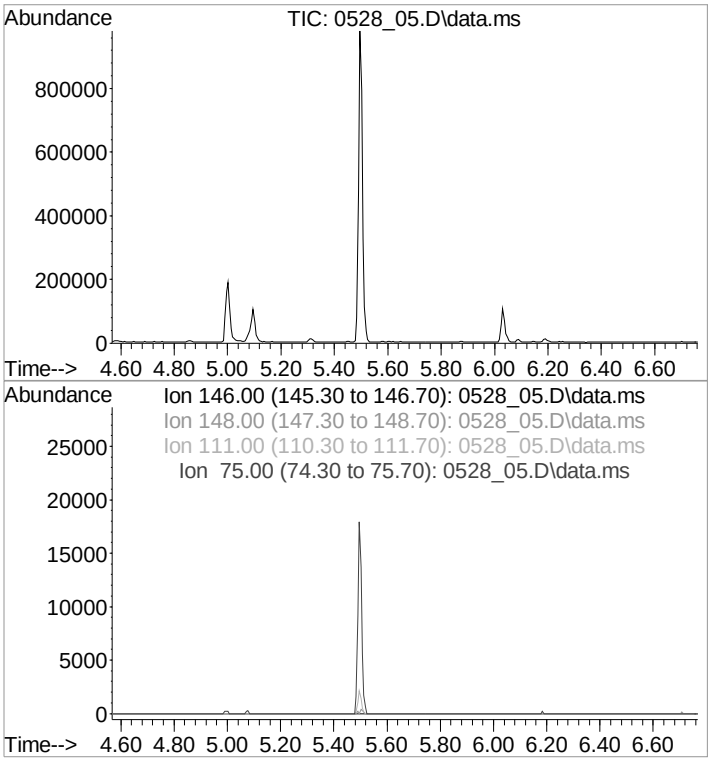


#14
Benzyl Alcohol
Concen: N.D.
Expected RT: 5.61 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
77	66.4

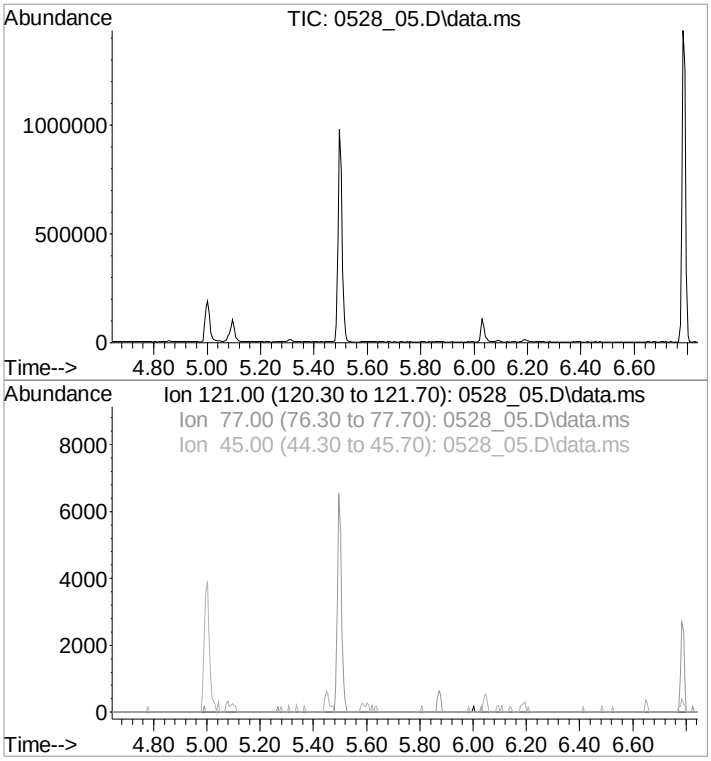


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.67 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	63.8
111	44.2
75	35.6

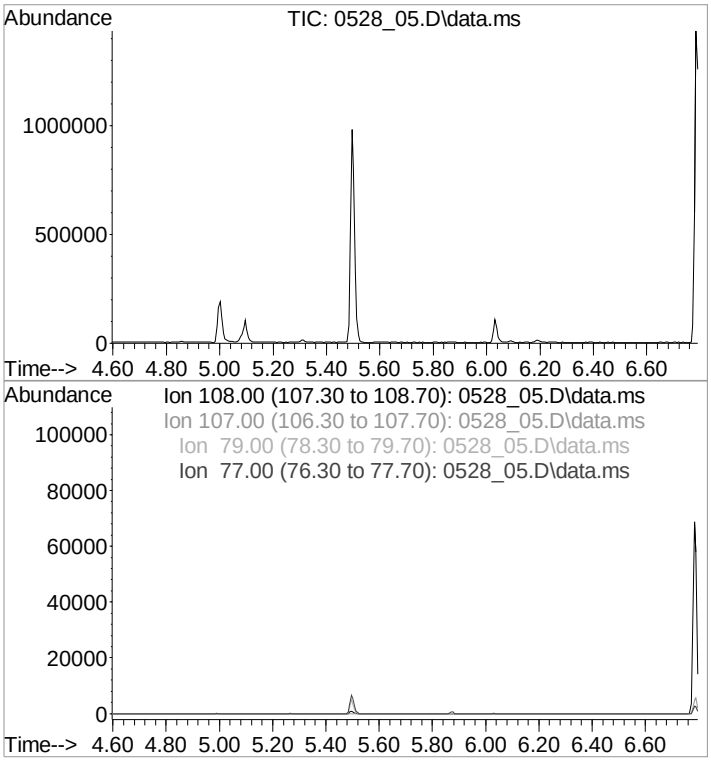


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.74 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 121

Sig	Exp Ratio
121	100
77	56.8
45	441.7

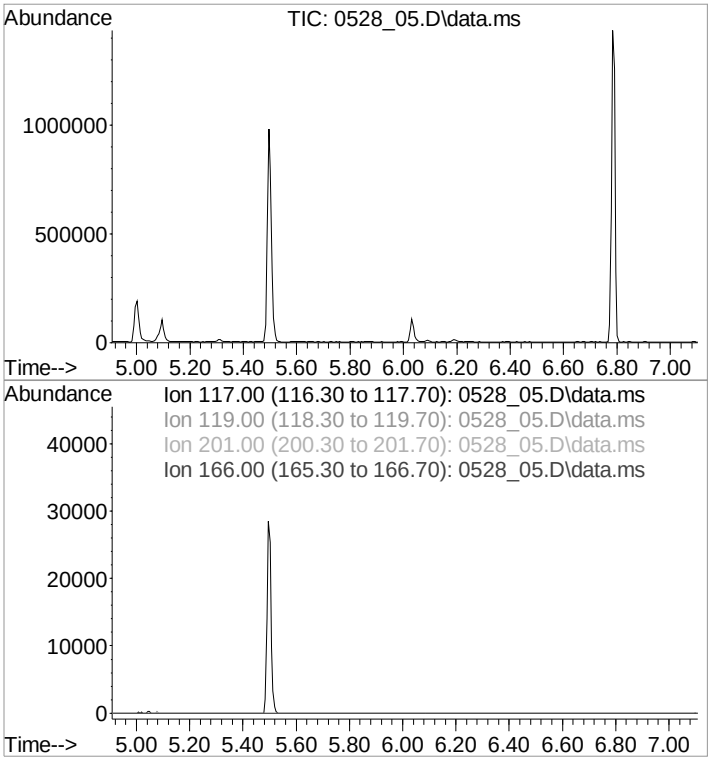


#17
2-Methylphenol
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 108

Sig	Exp Ratio
108	100
107	88.5
79	42.5
77	45.1

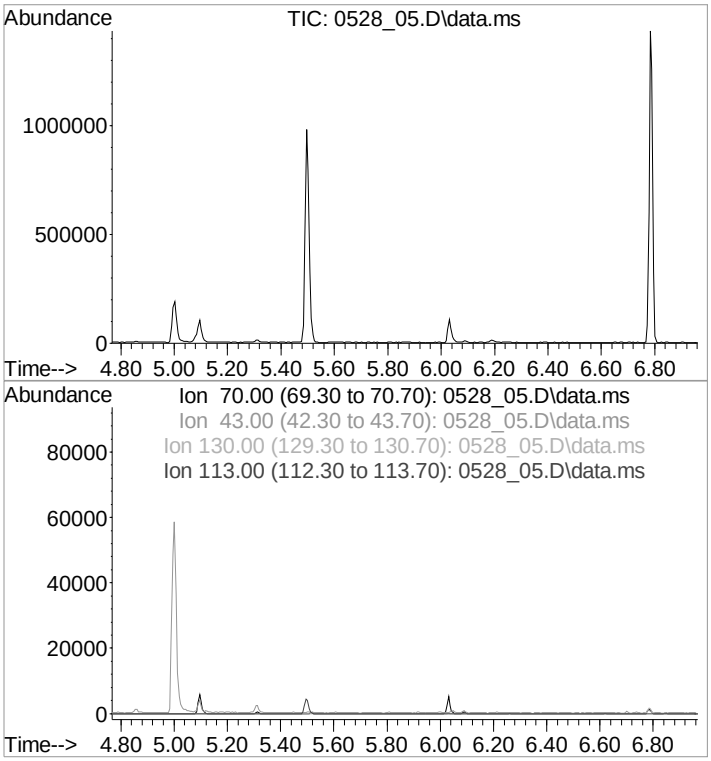


#18
Hexachloroethane
Concen: N.D.
Expected RT: 6.01 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	94.8
201	89.2
166	48.8

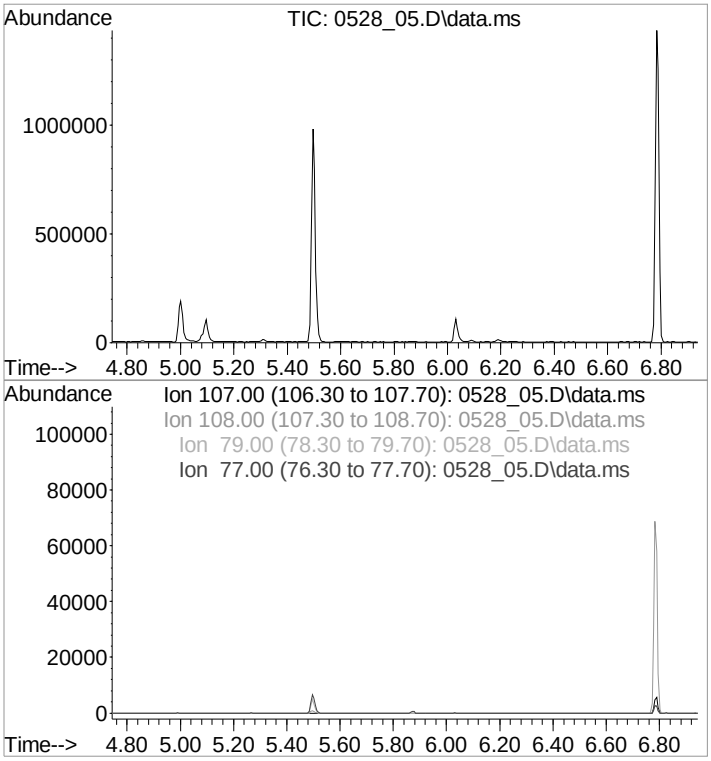


#19
N-Nitrosodi-n-propylamine
Concen: N.D.
Expected RT: 5.87 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 70

Sig	Exp Ratio
70	100
43	107.2
130	23.1
113	11.6

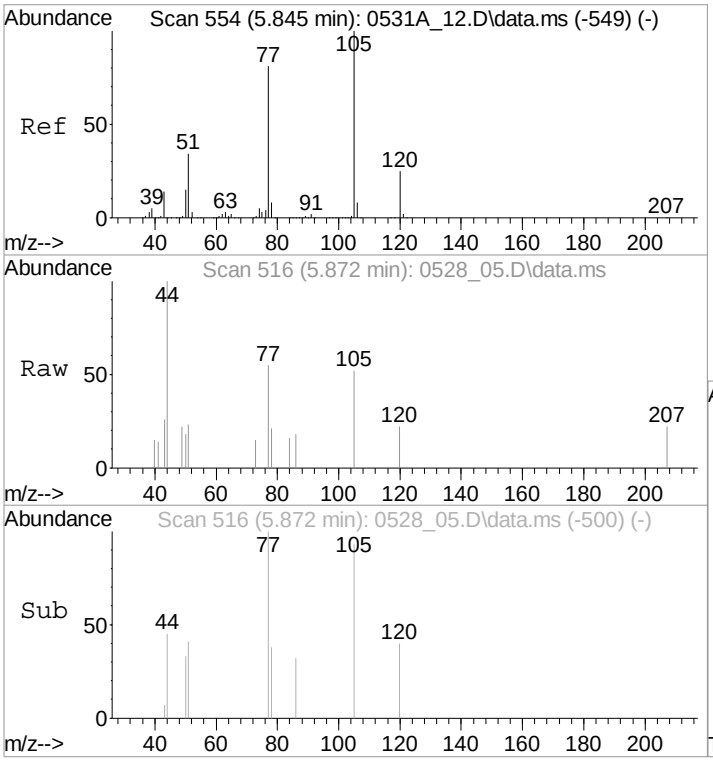


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.84 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 107

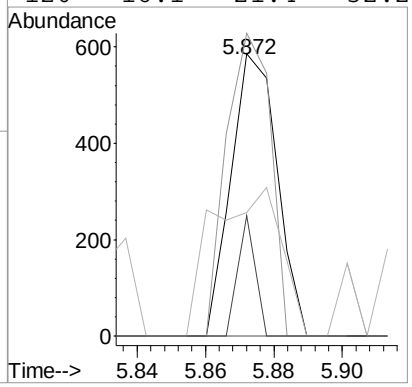
Sig	Exp Ratio
107	100
108	91.8
79	31.1
77	36.6

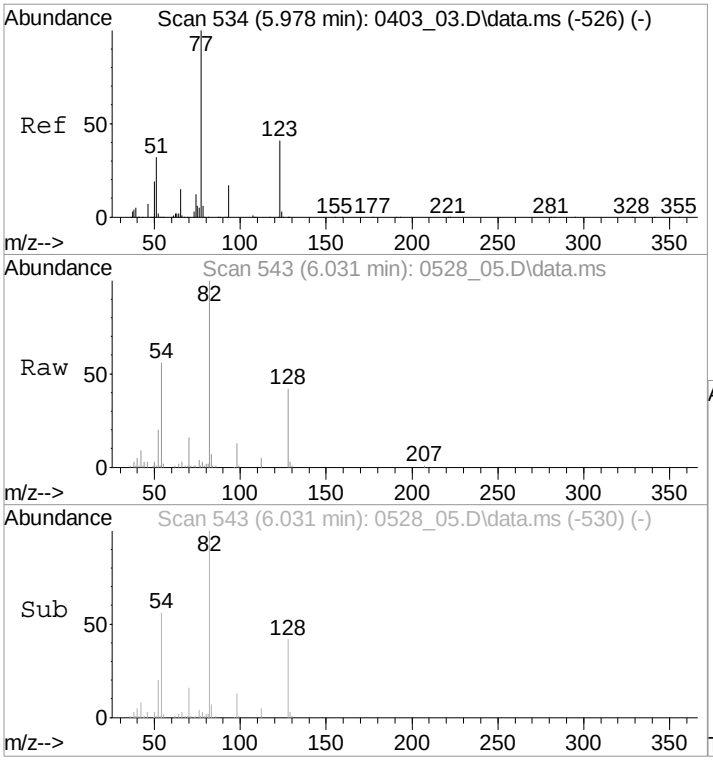


#21
Acetophenone
Concen: Below Cal
RT: 5.872 min Scan# 516
Delta R.T. -0.006 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:105 Resp: 548

Ion	Ratio	Lower	Upper
105	100		
77	102.7	65.1	97.7#
51	78.6	25.2	37.8#
120	16.1	21.4	32.2#

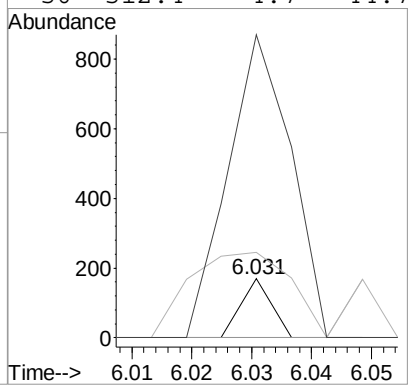


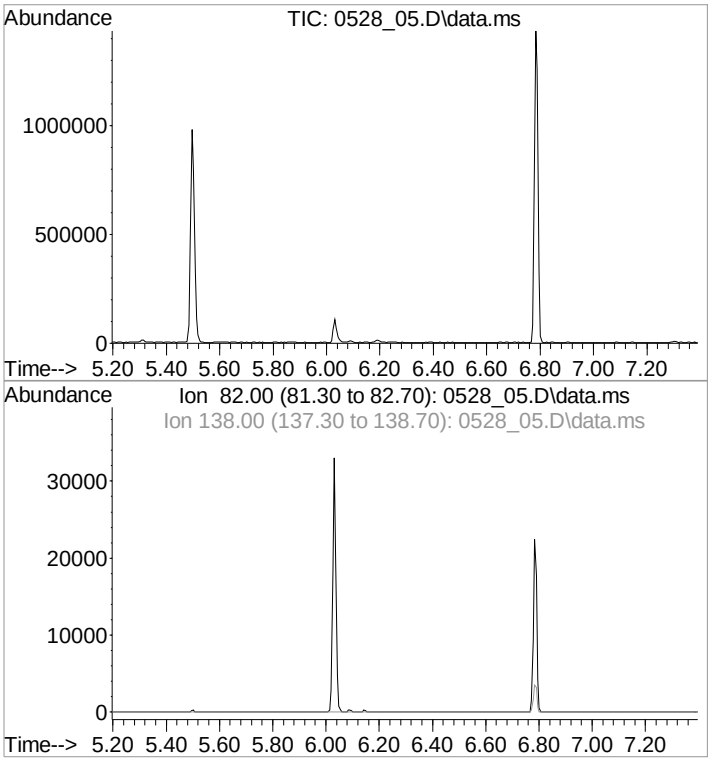


#24
Nitrobenzene
Concen: Below Cal
RT: 6.031 min Scan# 543
Delta R.T. -0.023 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 77 Resp: 60

Ion	Ratio	Lower	Upper
77	100		
123	0.0	22.1	62.1#
51	144.1	37.5	77.5#
50	512.4	4.7	44.7#



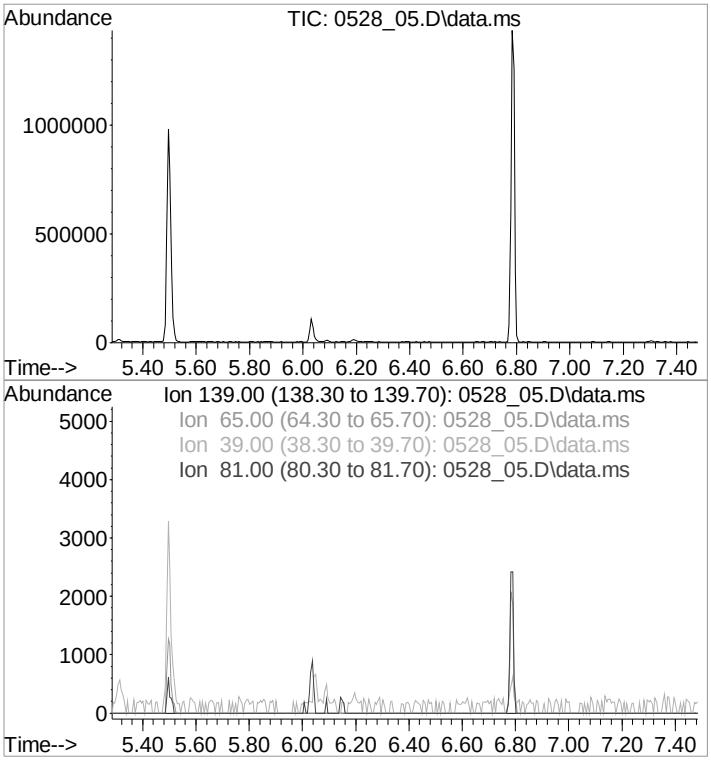


#25
Isophorone
Concen: N.D.
Expected RT: 6.30 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 82

Sig	Exp Ratio
82	100
138	18.9

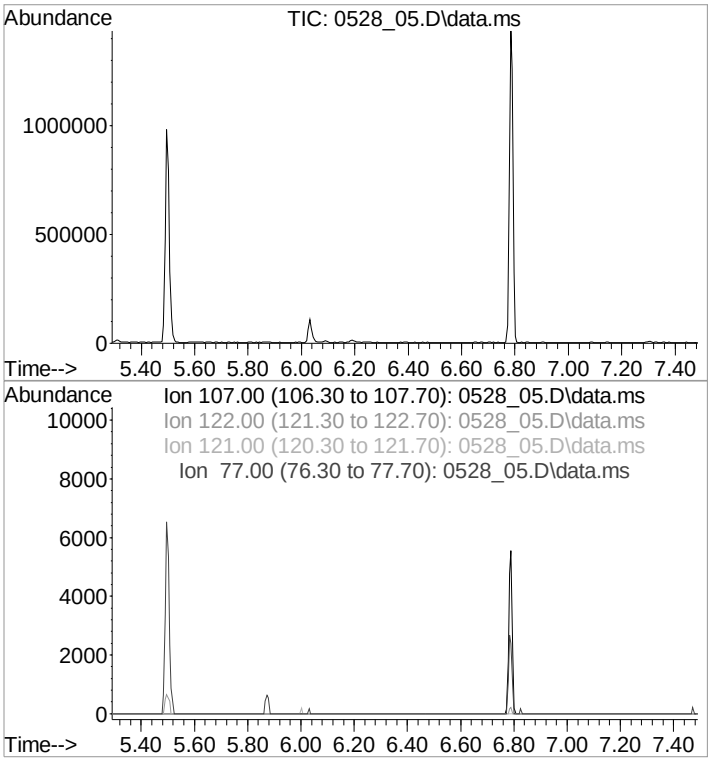


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.38 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	56.9
39	63.3
81	39.1

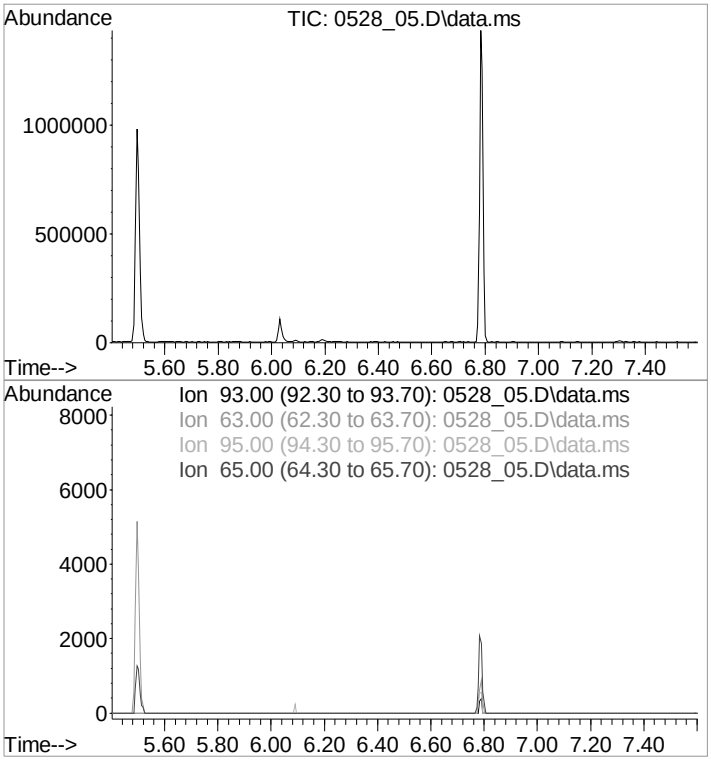


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.39 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
122	85.2
121	48.9
77	33.4

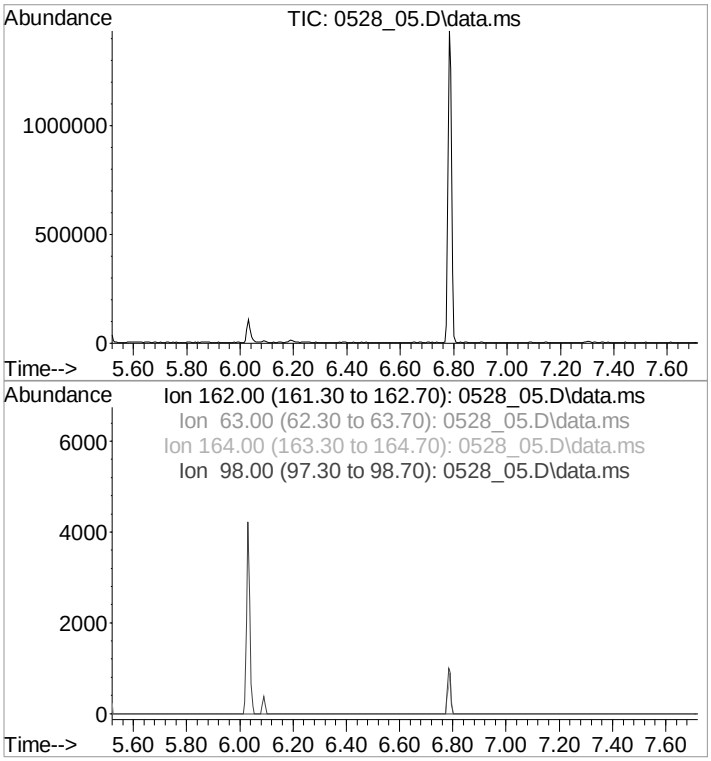


#28
bis(2-Chlorethoxy)methane
Concen: N.D.
Expected RT: 6.50 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 93

Sig	Exp Ratio
93	100
63	69.8
95	31.5
65	22.0

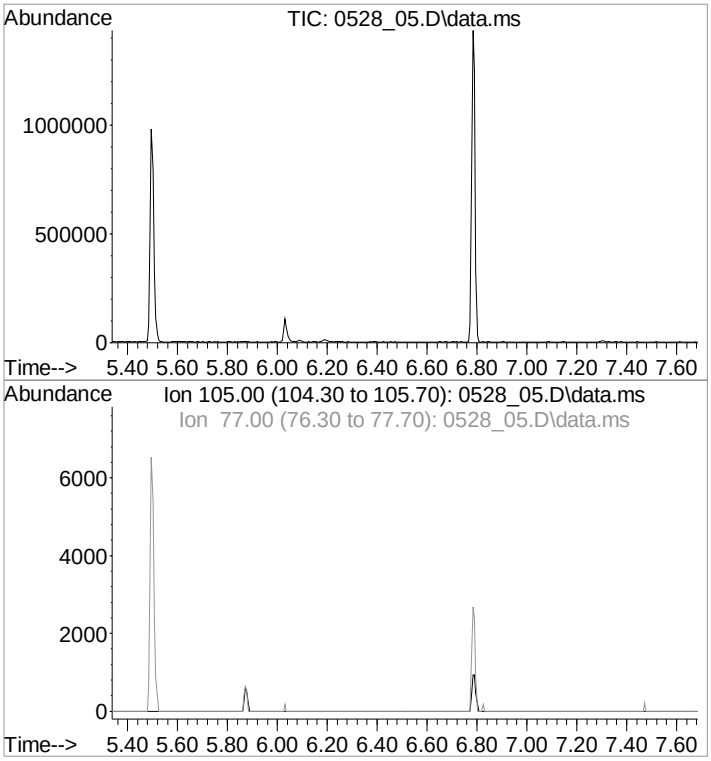


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.62 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	61.6
164	63.1
98	36.0

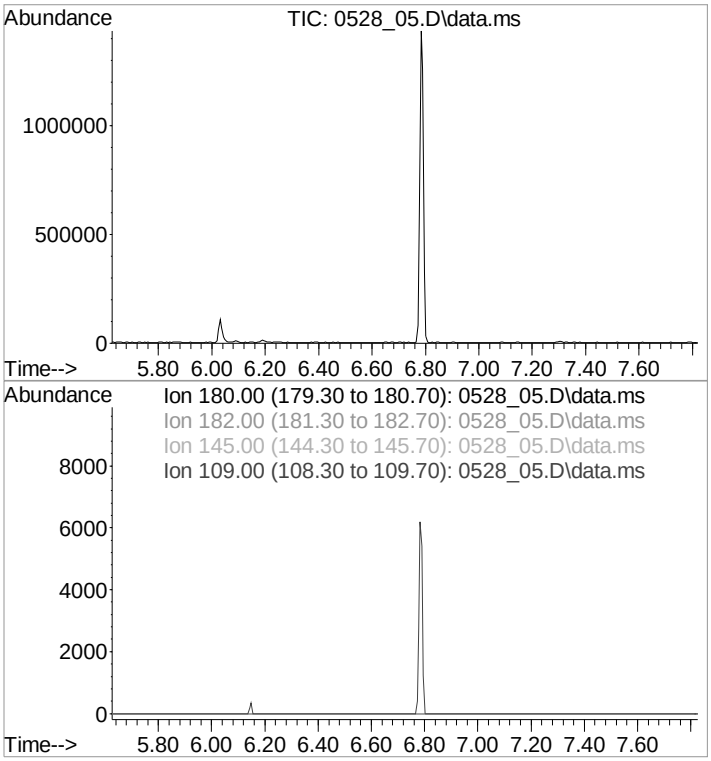


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.44 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	49.3

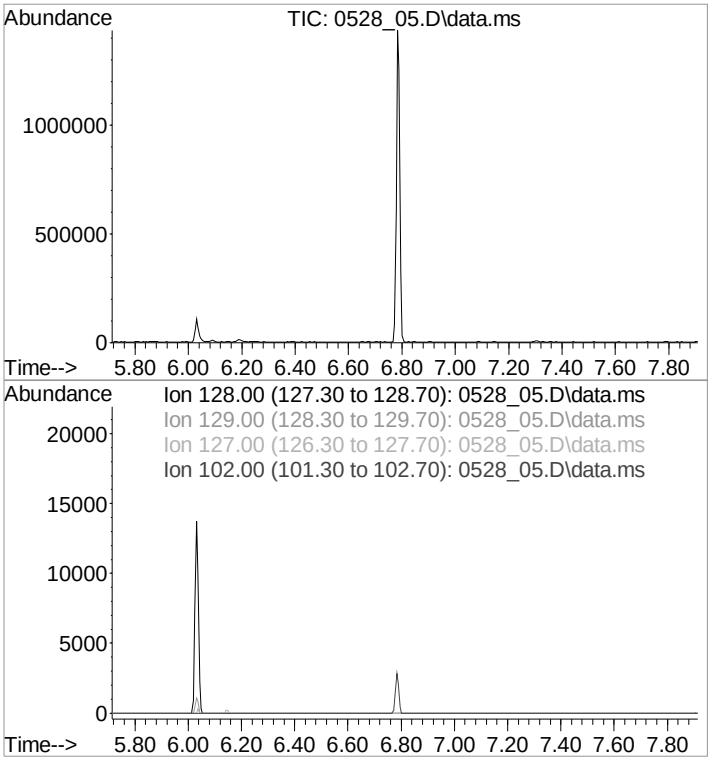


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.72 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 180

Sig	Exp Ratio
180	100
182	96.1
145	27.9
109	23.2

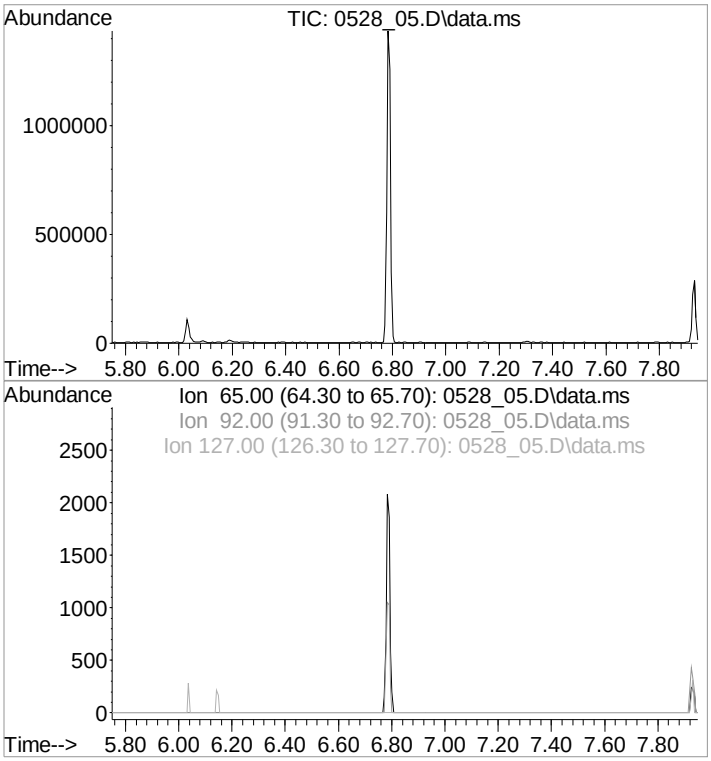


#32
Naphthalene
Concen: N.D.
Expected RT: 6.81 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
129	11.0
127	13.1
102	10.0

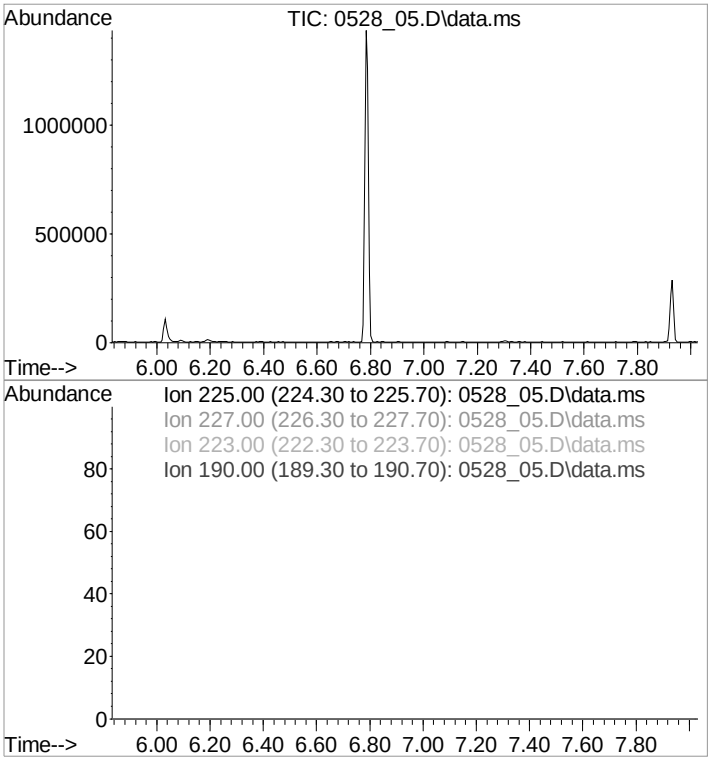


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.85 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	57.0
127	331.9

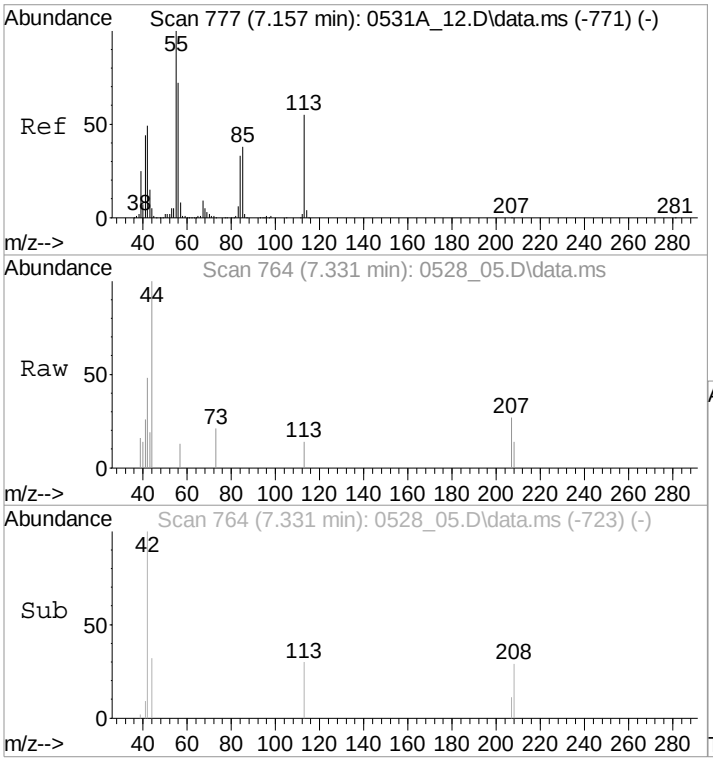


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.93 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 225

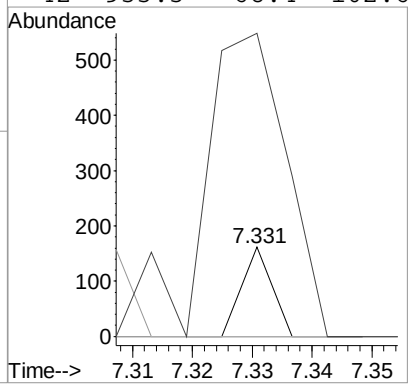
Sig	Exp Ratio
225	100
227	62.4
223	64.0
190	46.9

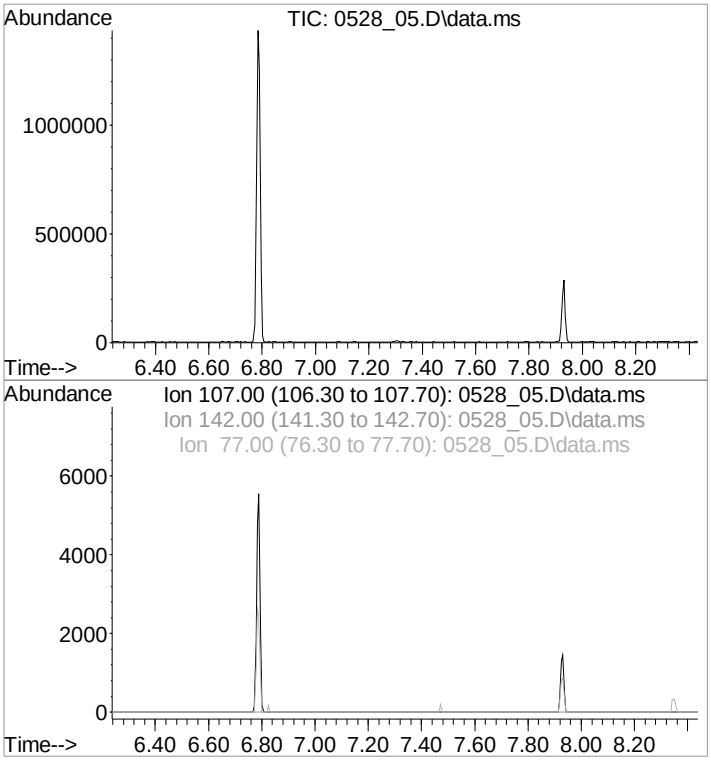


#35
Caprolactam
Concen: Below Cal
RT: 7.331 min Scan# 764
Delta R.T. 0.141 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:113 Resp: 57

Ion	Ratio	Lower	Upper
113	100		
55	450.9	111.1	166.7#
56	0.0	84.4	126.6#
42	933.3	68.4	102.6#



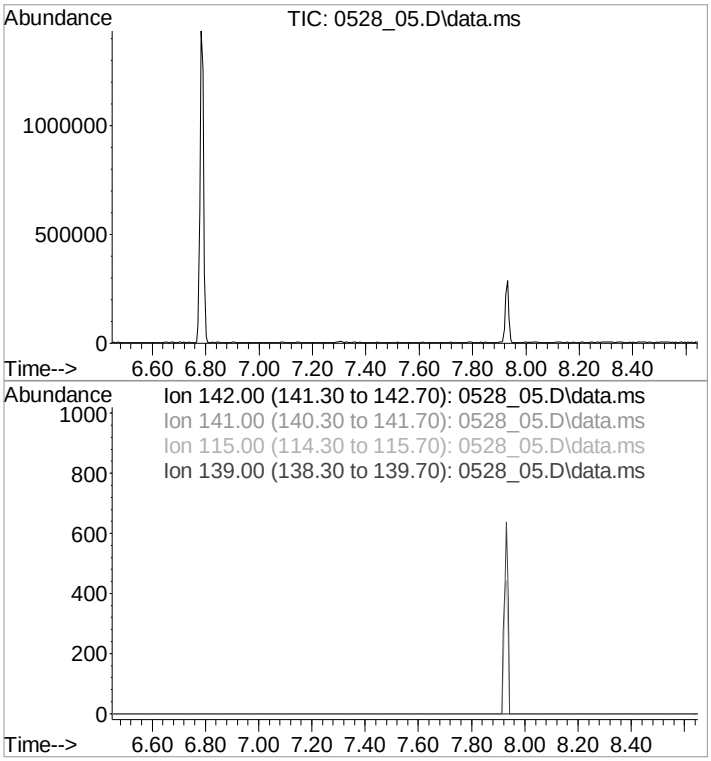


#36
4-Chloro-3-methylphenol
Concen: N.D.
Expected RT: 7.34 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
142	84.8
77	55.6

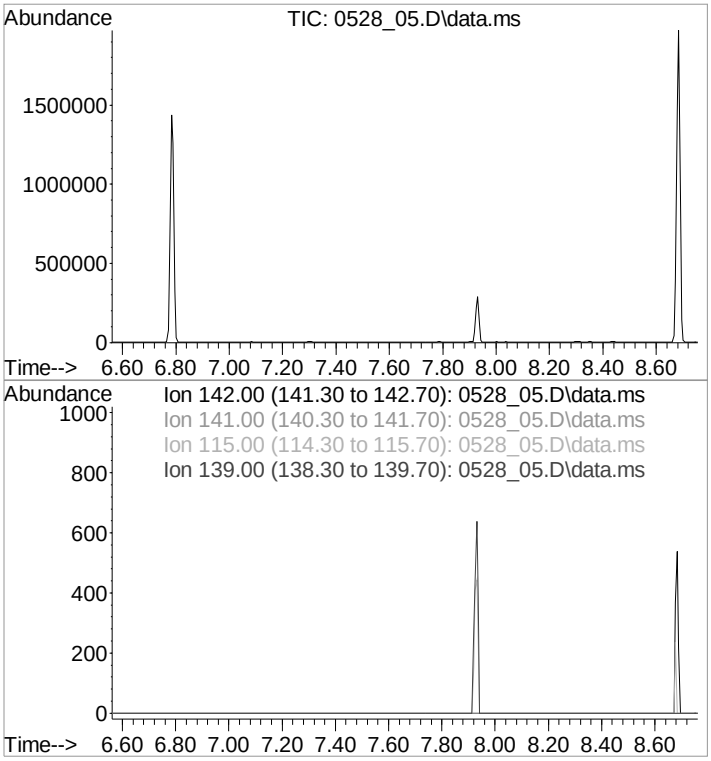


#37
2-Methylnaphthalene
Concen: N.D.
Expected RT: 7.55 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	86.9
115	36.9
139	11.0

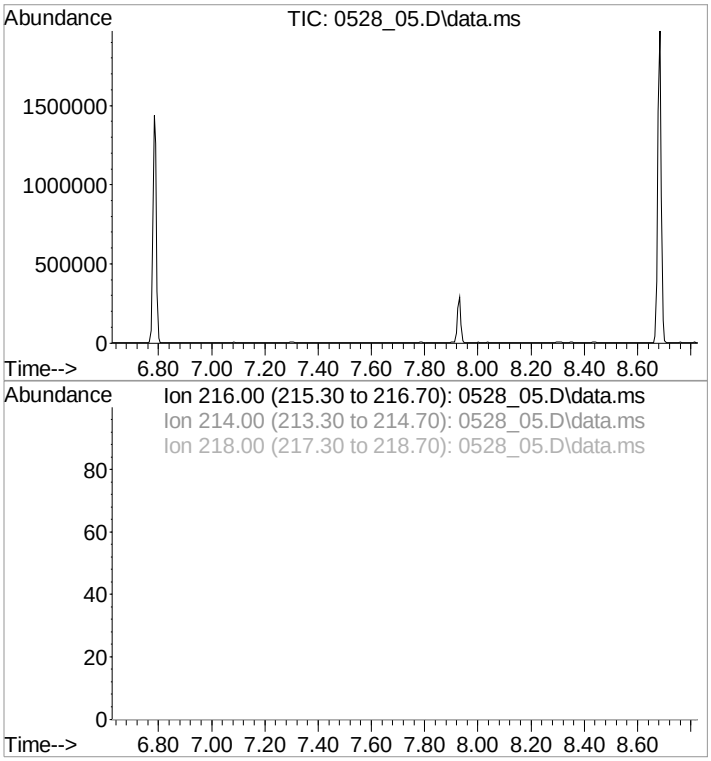


#38
1-Methylnaphthalene
Concen: N.D.
Expected RT: 7.66 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	89.3
115	38.9
139	11.7

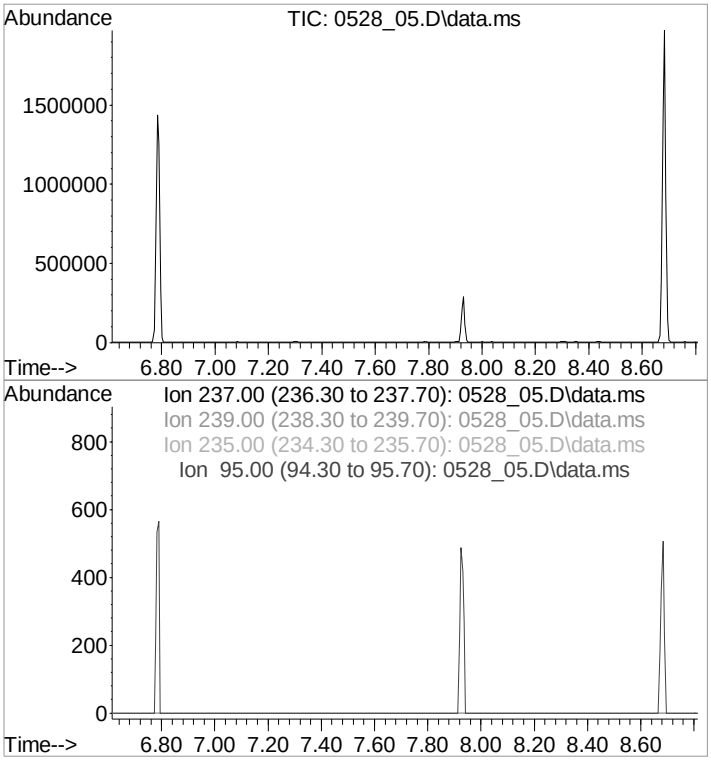


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	77.5
218	47.5

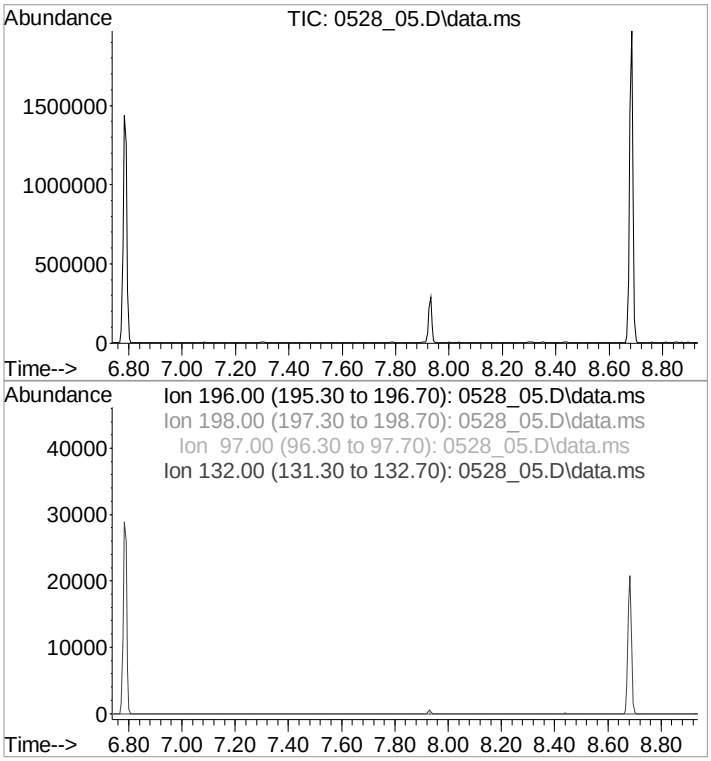


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.71 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	64.6
235	63.5
95	27.2

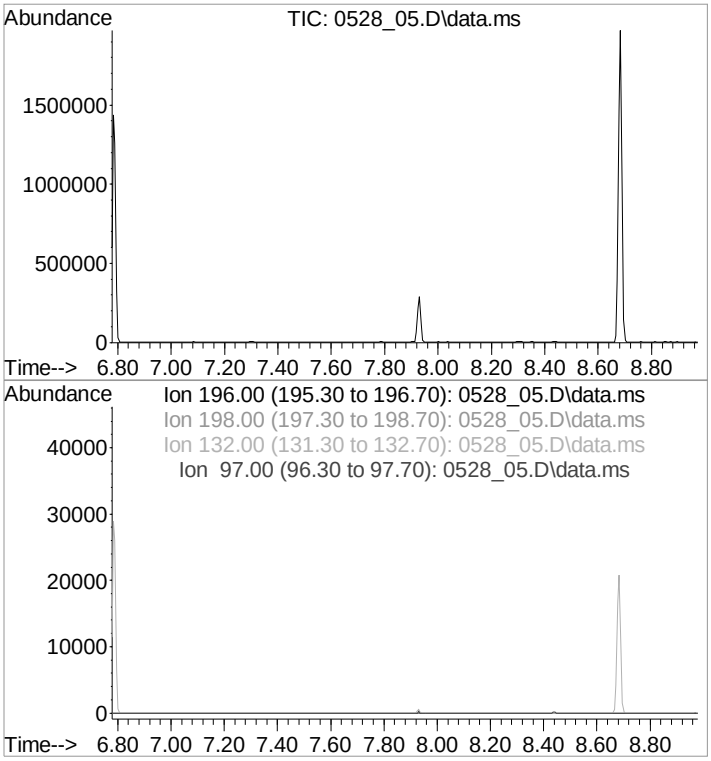


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.84 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.1
97	62.8
132	43.4

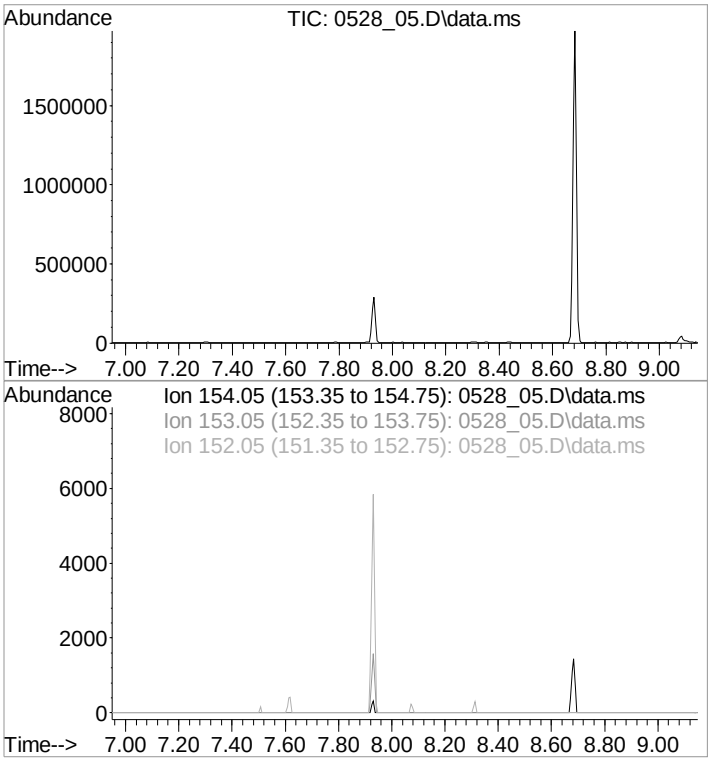


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.88 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.0
132	24.9
97	46.1

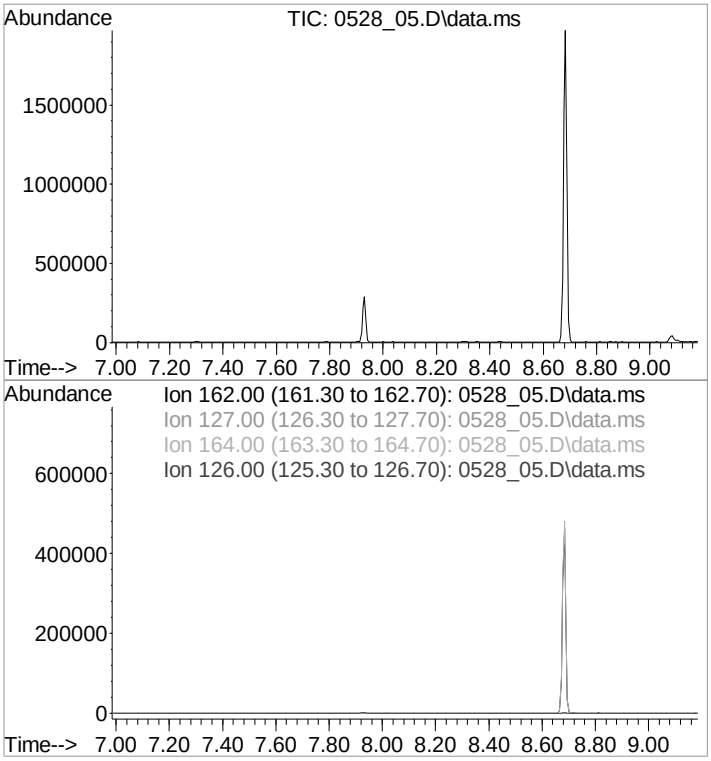


#45
Biphenyl
Concen: N.D.
Expected RT: 8.05 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 154

Sig	Exp Ratio
154	100
153	39.5
152	27.4

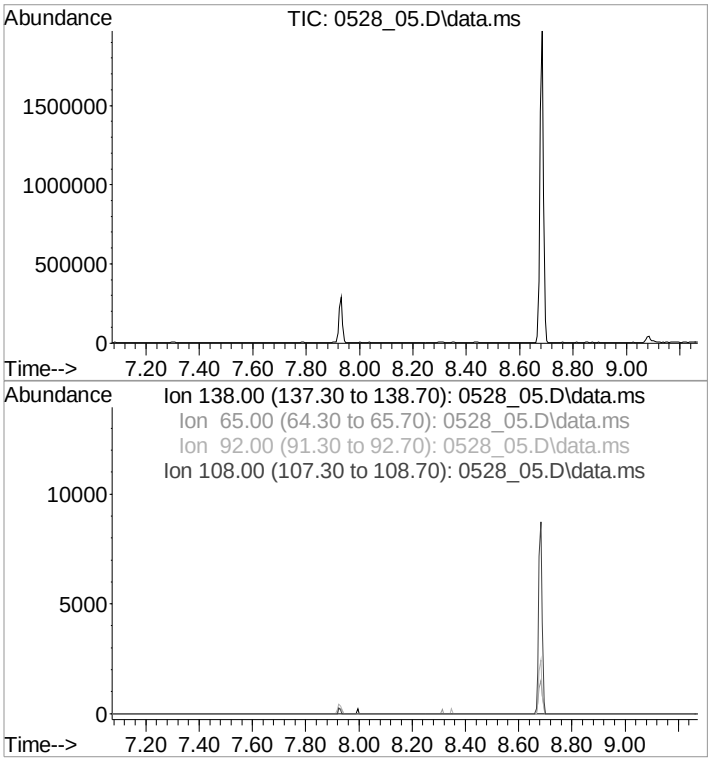


#46
2-Chloronaphthalene
Concen: N.D.
Expected RT: 8.08 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
127	36.9
164	32.9
126	19.2

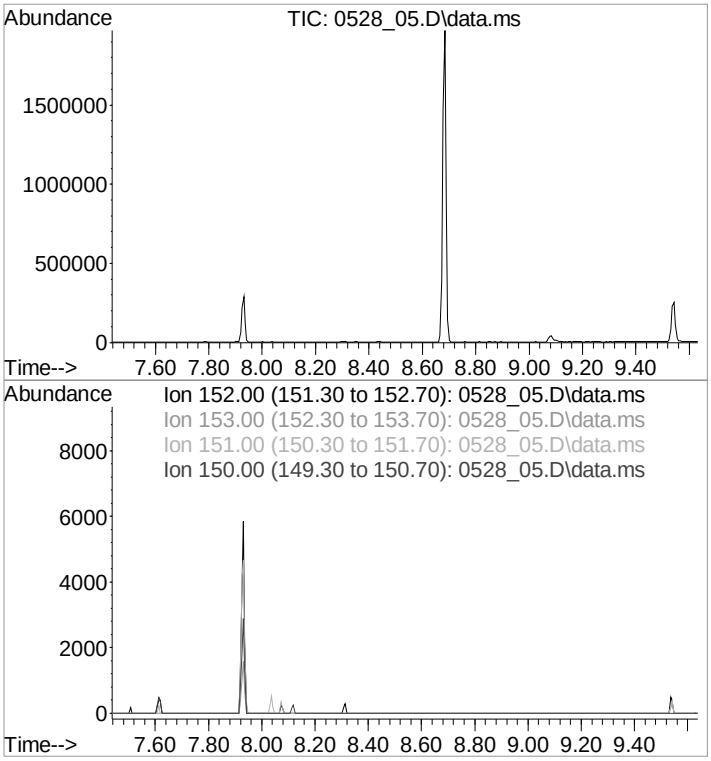


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.17 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	93.1
92	63.4
108	19.4

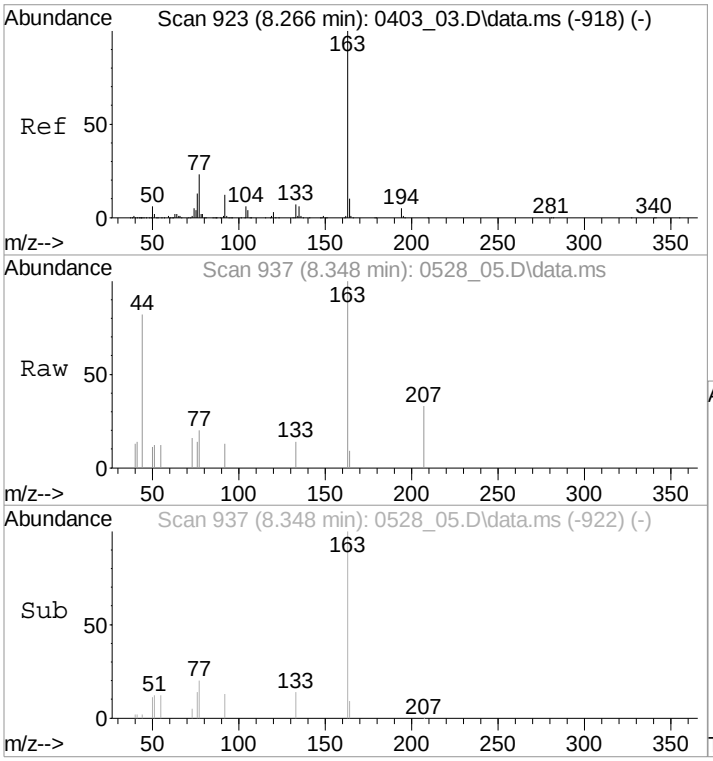


#48
Acenaphthylene
Concen: N.D.
Expected RT: 8.54 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 152

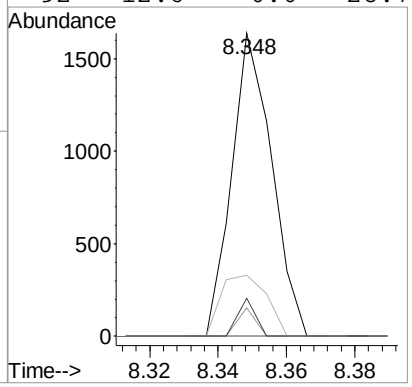
Sig	Exp Ratio
152	100
153	13.0
151	20.3
150	14.8

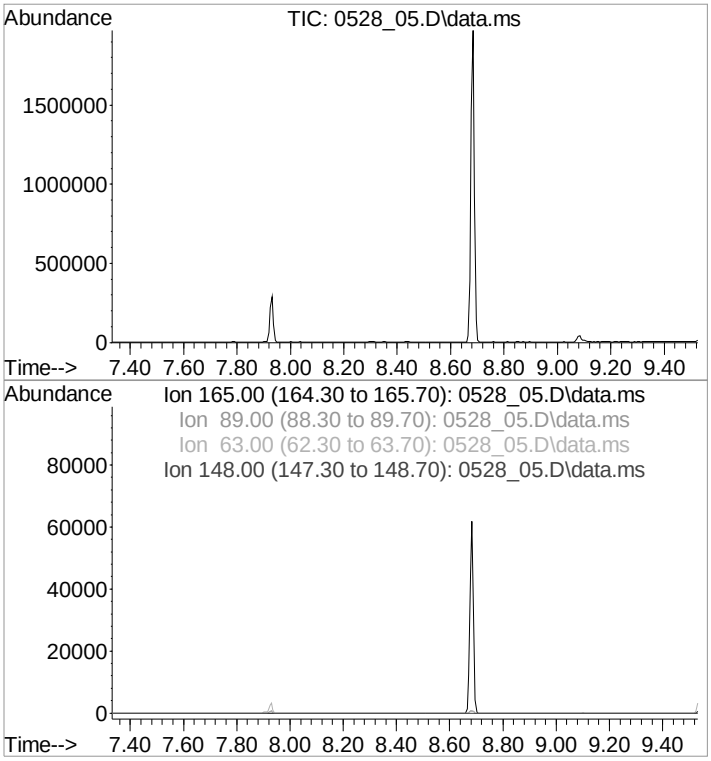


#49
Dimethyl phthalate
Concen: Below Cal
RT: 8.348 min Scan# 937
Delta R.T. -0.012 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:163 Resp: 1329

Ion	Ratio	Lower	Upper
163	100		
164	9.5	0.0	29.9
77	20.2	0.8	40.8
92	12.6	0.0	28.7



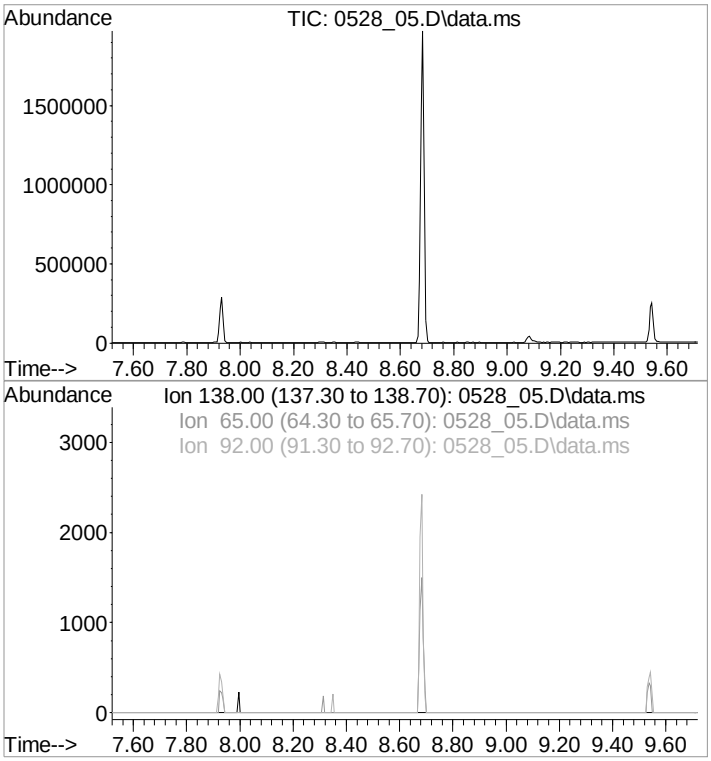


#50
2,6-Dinitrotoluene
Concen: N.D.
Expected RT: 8.43 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	58.1
63	59.5
148	20.7

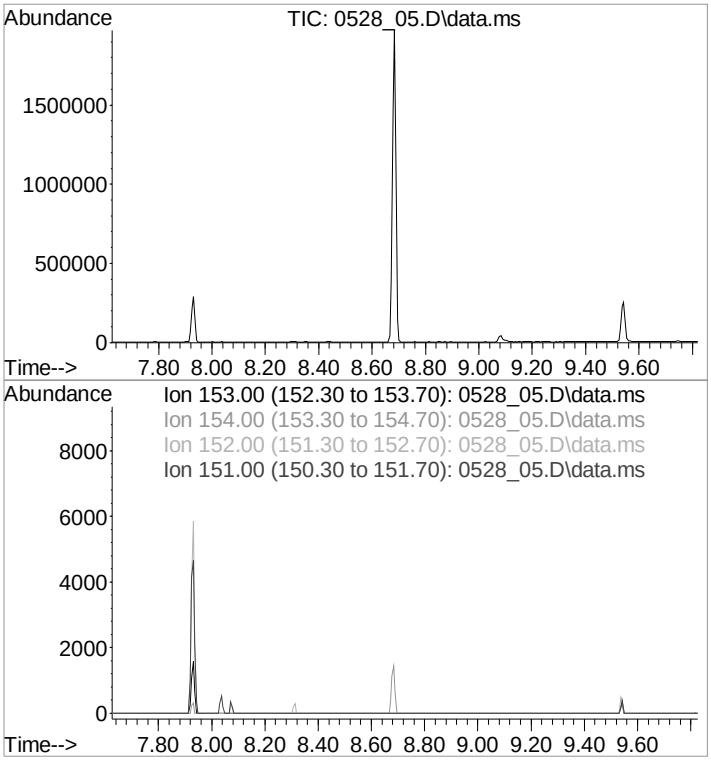


#51
3-Nitroaniline
Concen: N.D.
Expected RT: 8.62 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	122.8
92	109.4

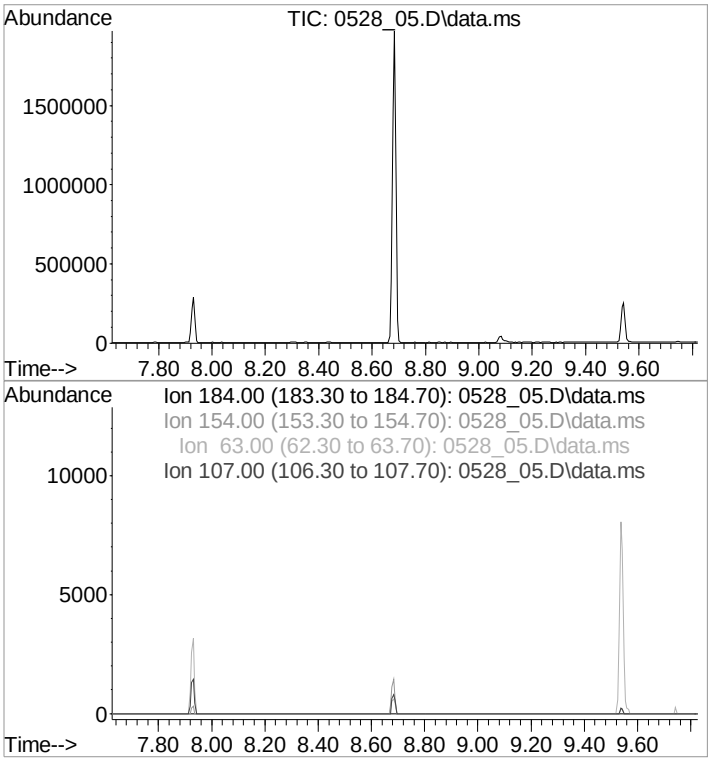


#52
Acenaphthene
Concen: N.D.
Expected RT: 8.72 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 153

Sig	Exp Ratio
153	100
154	100.1
152	46.8
151	17.9

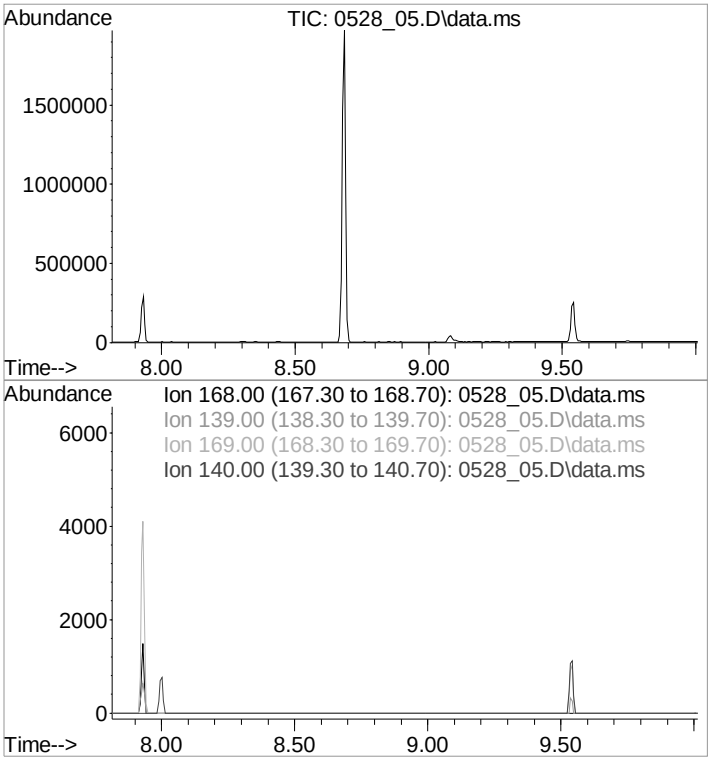


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.72 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
154	703.6
63	135.2
107	42.5

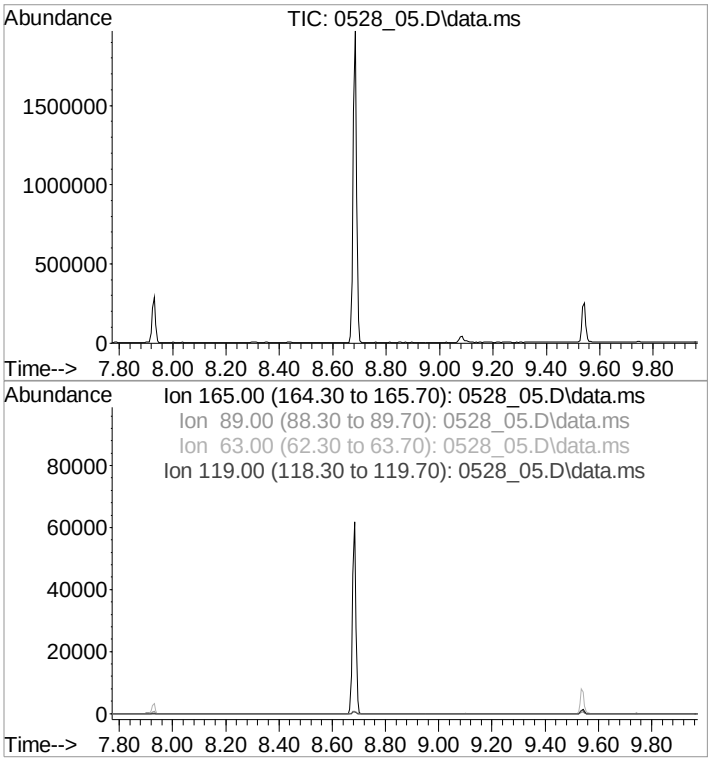


#54
Dibenzofuran
Concen: N.D.
Expected RT: 8.91 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 168

Sig	Exp Ratio
168	100
139	38.0
169	13.3
140	5.4

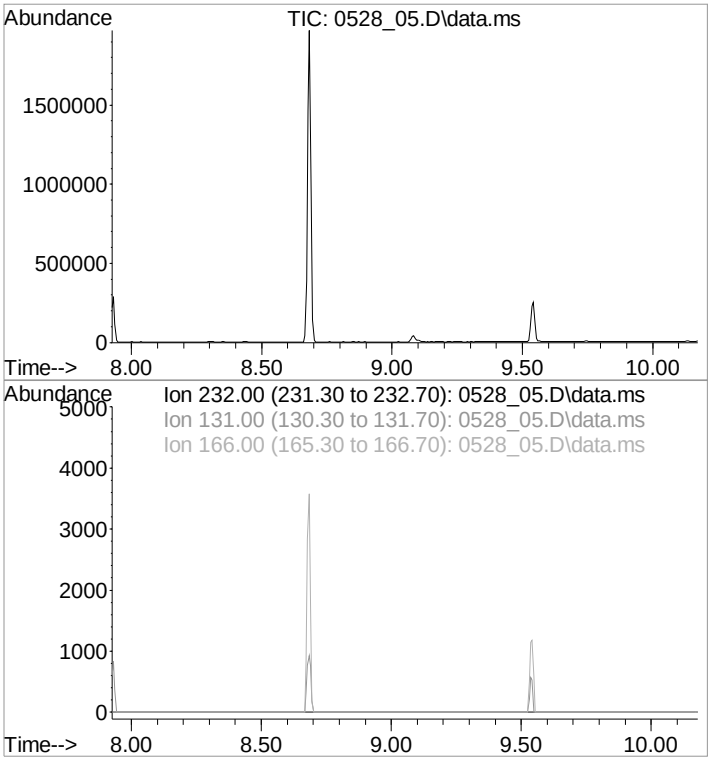


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.87 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	66.9
63	41.7
119	18.6

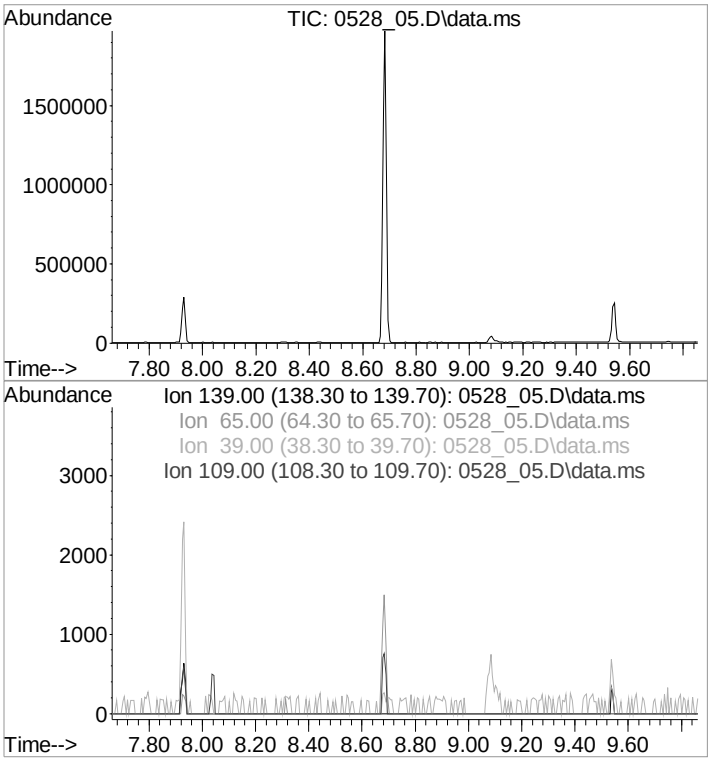


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 9.02 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	46.5
166	30.1

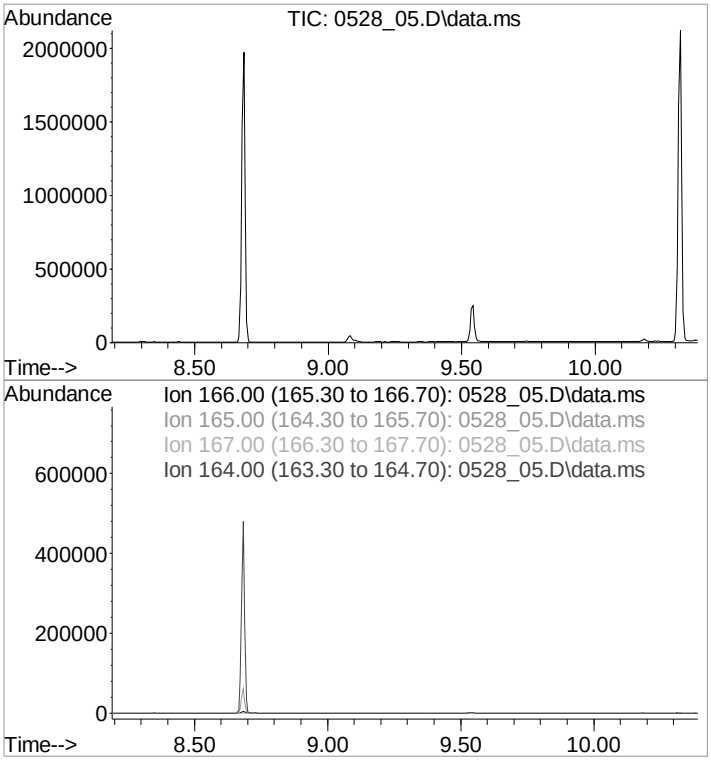


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.76 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	94.3
39	66.8
109	73.5

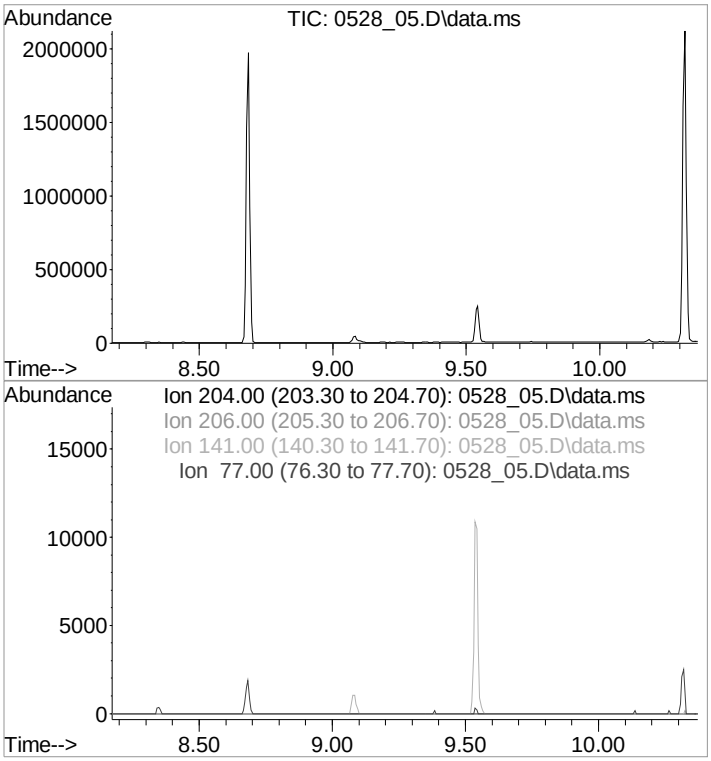


#58
Fluorene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
165	92.6
167	13.5
164	13.4

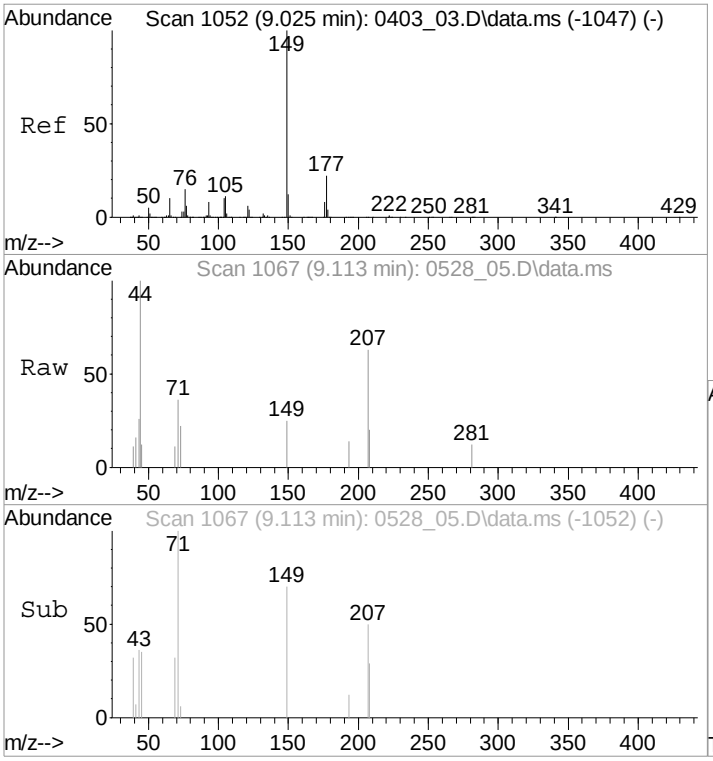


#59
4-Chlorophenyl-phenylether
Concen: N.D.
Expected RT: 9.27 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 204

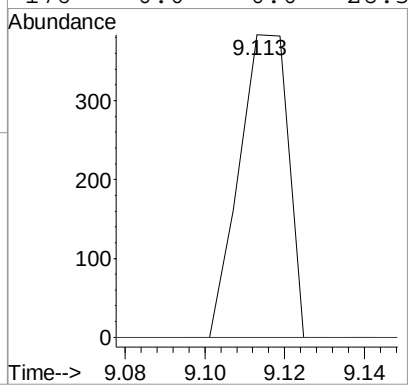
Sig	Exp Ratio
204	100
206	32.9
141	57.0
77	44.5

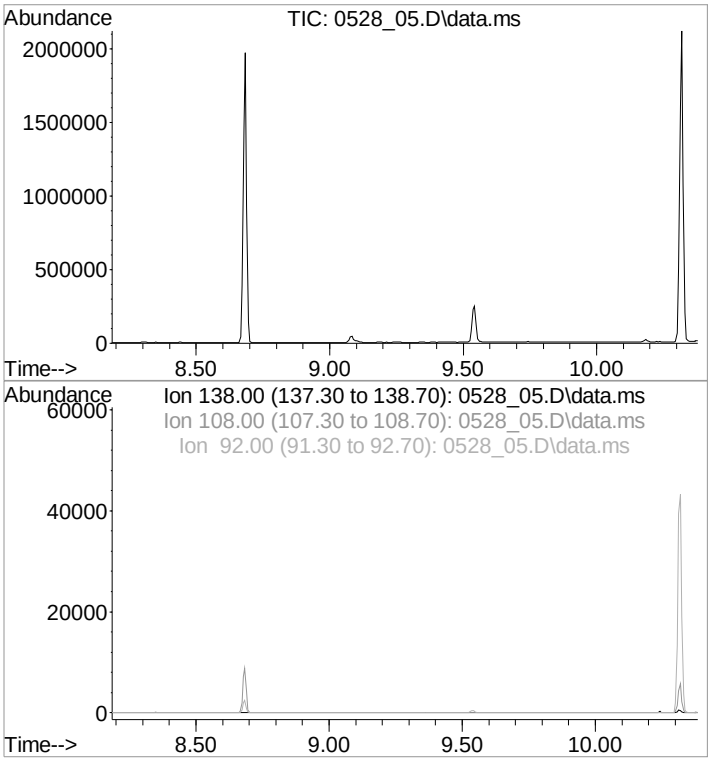


#60
Diethyl phthalate
Concen: Below Cal
RT: 9.113 min Scan# 1067
Delta R.T. -0.012 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:149 Resp: 327

Ion	Ratio	Lower	Upper
149	100		
177	0.0	2.3	42.3#
150	0.0	0.0	32.3
176	0.0	0.0	28.3



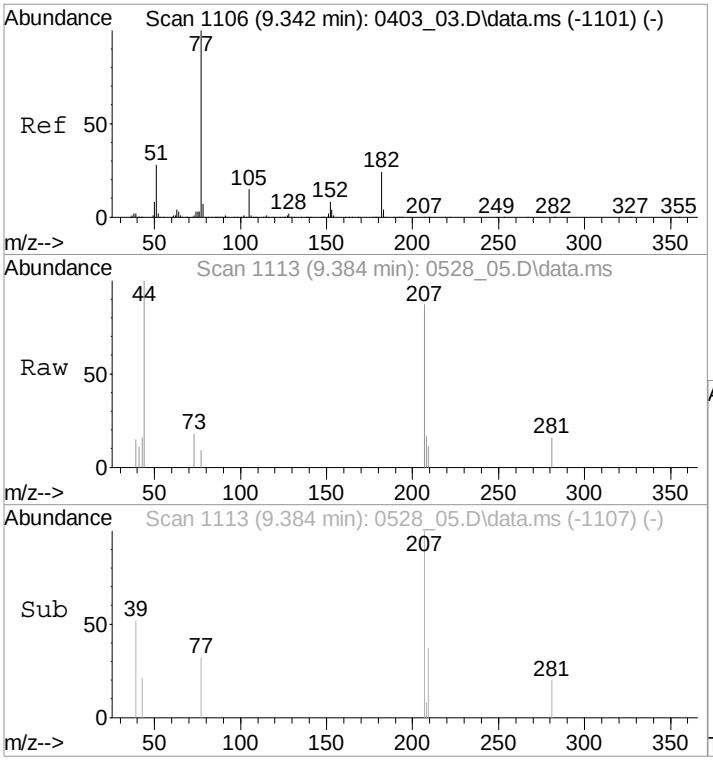


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.28 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 138

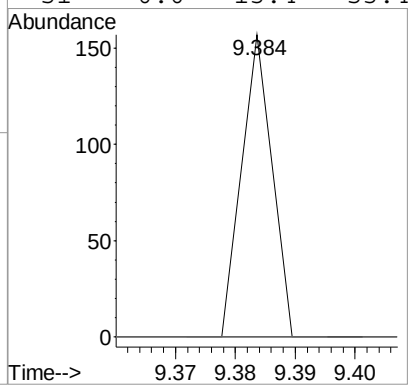
Sig	Exp Ratio
138	100
108	75.0
92	49.9

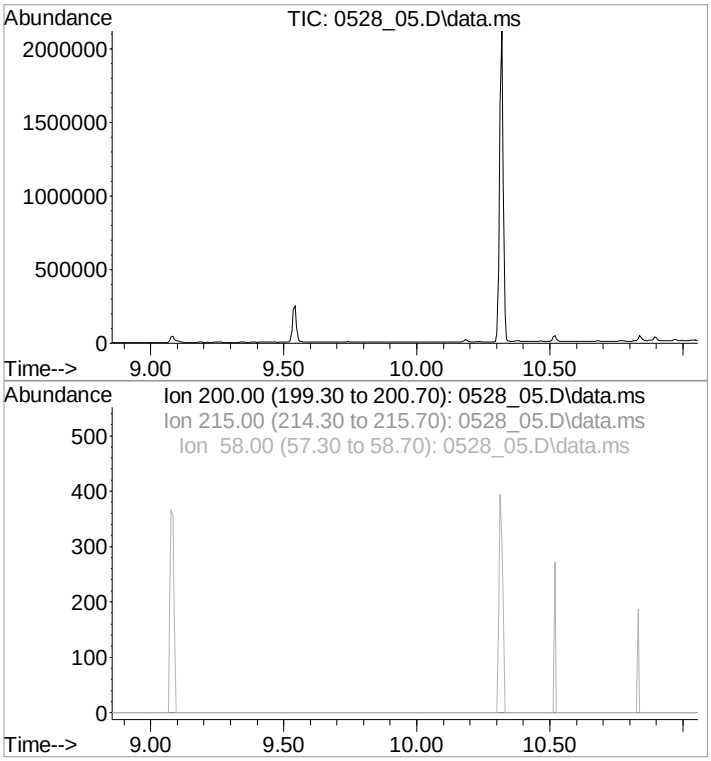


#62
Azobenzene
Concen: Below Cal
RT: 9.384 min Scan# 1113
Delta R.T. -0.065 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 77 Resp: 55

Ion	Ratio	Lower	Upper
77	100		
182	0.0	7.0	47.0#
105	0.0	0.0	36.3
51	0.0	13.4	53.4#



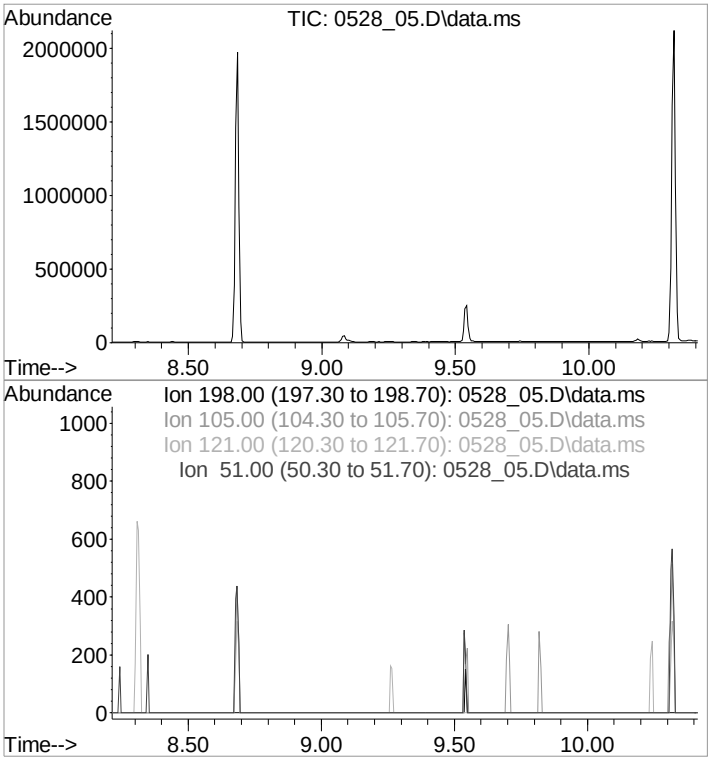


#63
Atrazine
Concen: N.D.
Expected RT: 9.95 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 200

Sig	Exp Ratio
200	100
215	55.2
58	42.7

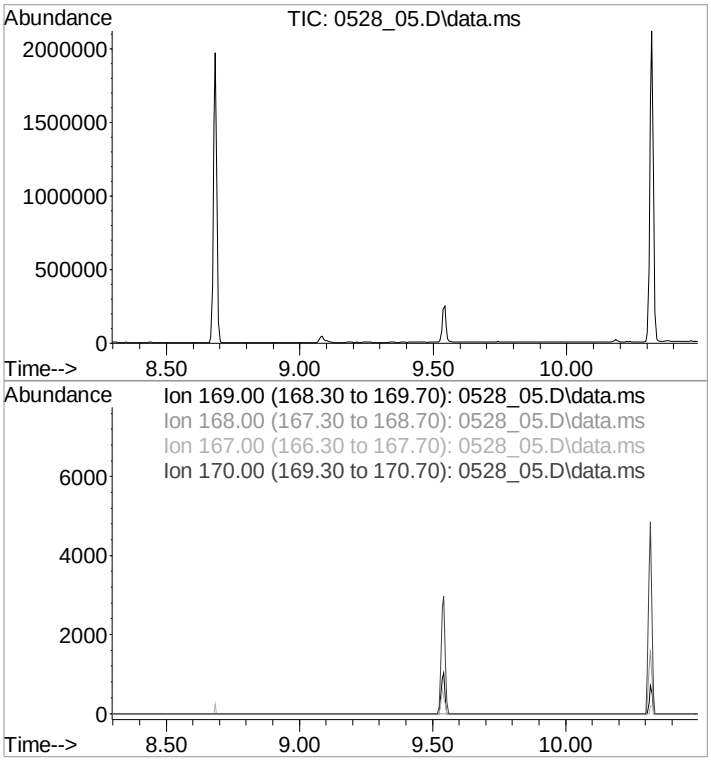


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.31 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 198

Sig	Exp Ratio
198	100
105	41.4
121	42.5
51	31.5

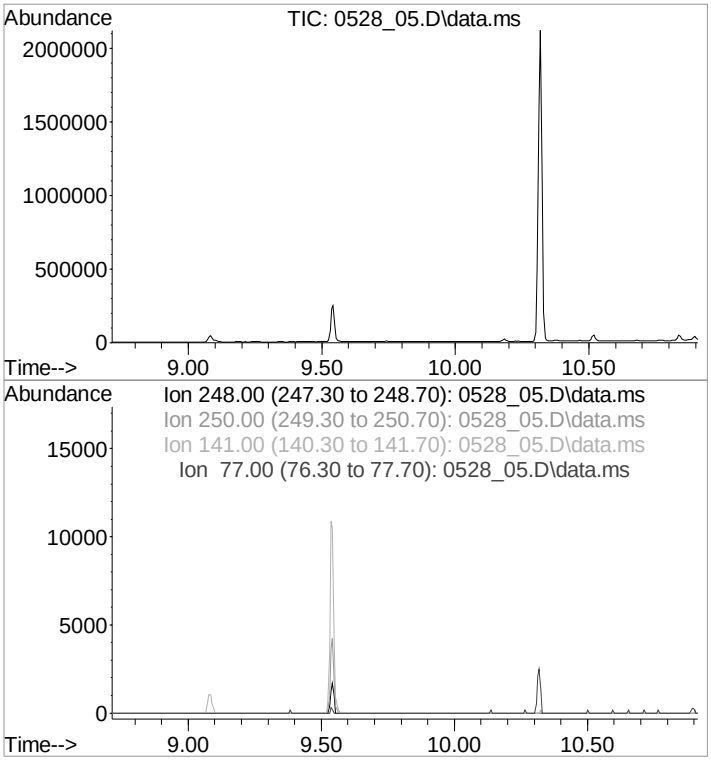


#66
N-Nitrosodiphenylamine
Concen: N.D.
Expected RT: 9.40 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 169

Sig	Exp Ratio
169	100
168	64.3
167	34.6
170	12.9

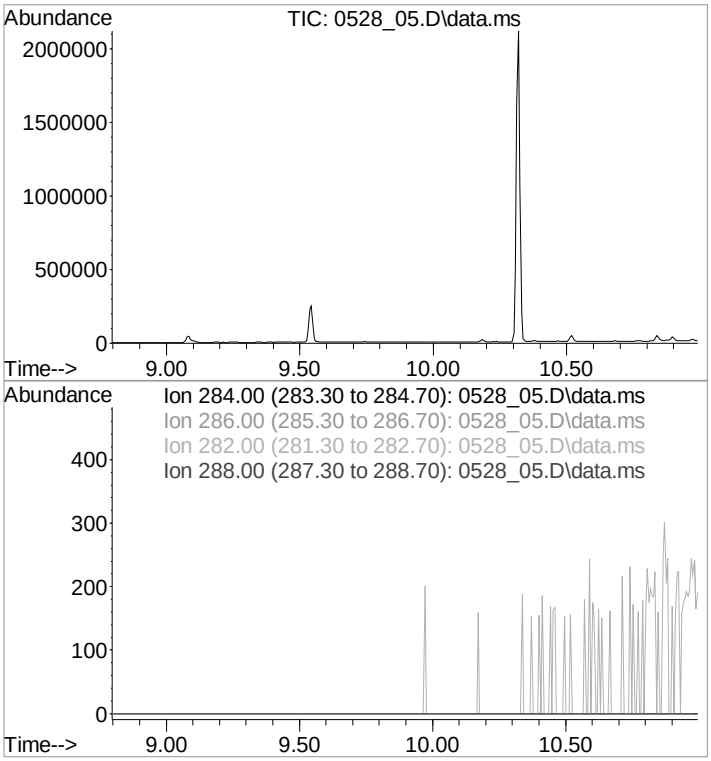


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.81 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	95.9
141	74.4
77	58.5

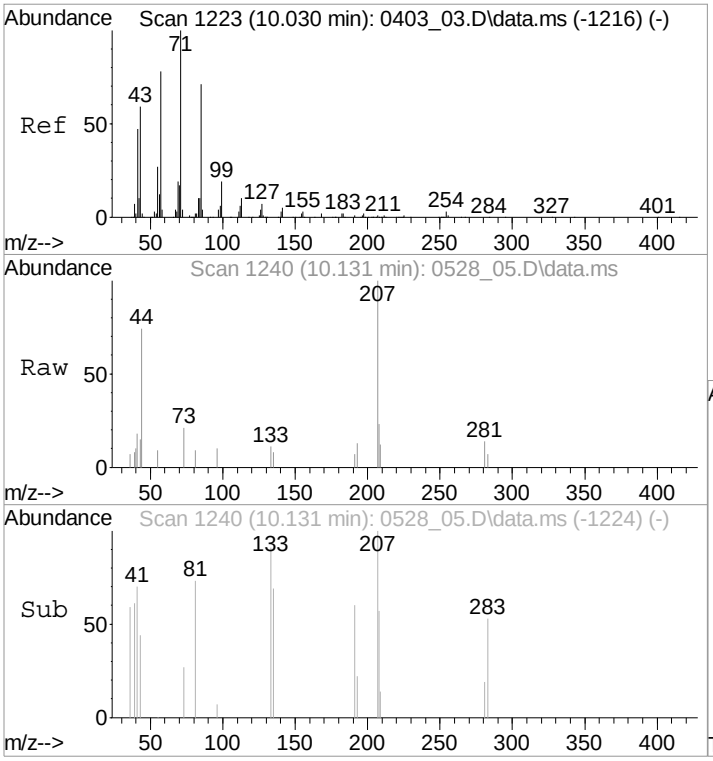


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.90 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 284

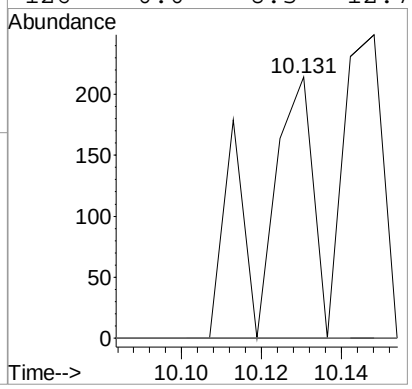
Sig	Exp Ratio
284	100
286	79.4
282	50.2
288	33.7

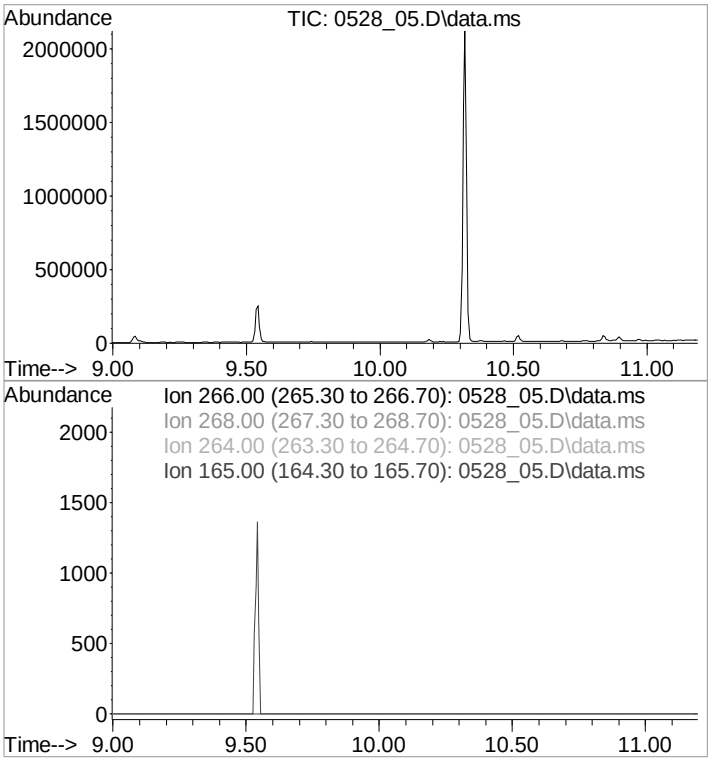


#70
n-octadecane
Concen: Below Cal
RT: 10.131 min Scan# 1240
Delta R.T. -0.006 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 55 Resp: 197

Ion	Ratio	Lower	Upper
55	100		
56	0.0	48.0	72.0#
70	0.0	36.5	54.7#
126	0.0	8.5	12.7#



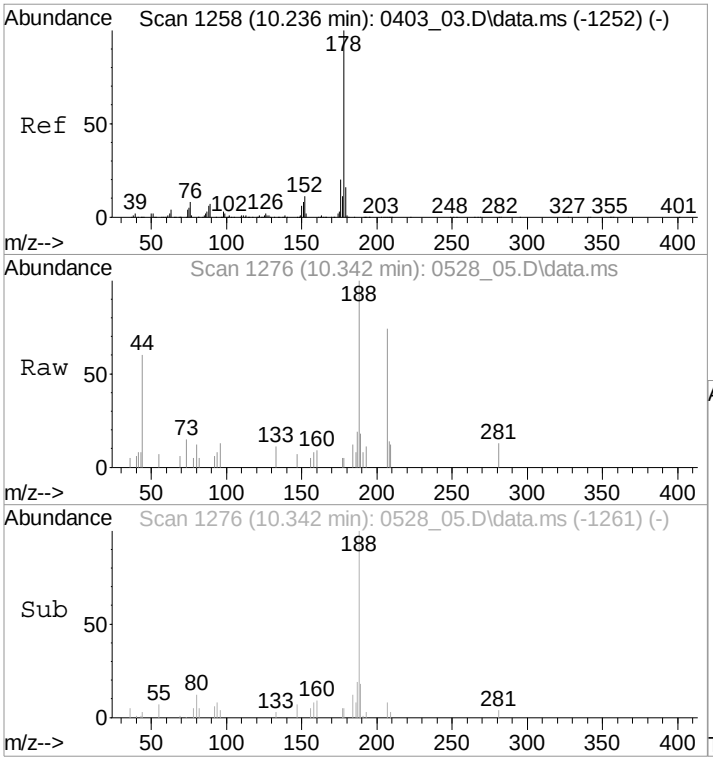


#71
Pentachlorophenol
Concen: N.D.
Expected RT: 10.10 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 266

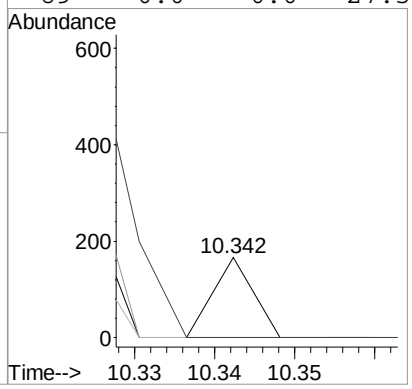
Sig	Exp Ratio
266	100
268	64.3
264	64.3
165	46.9

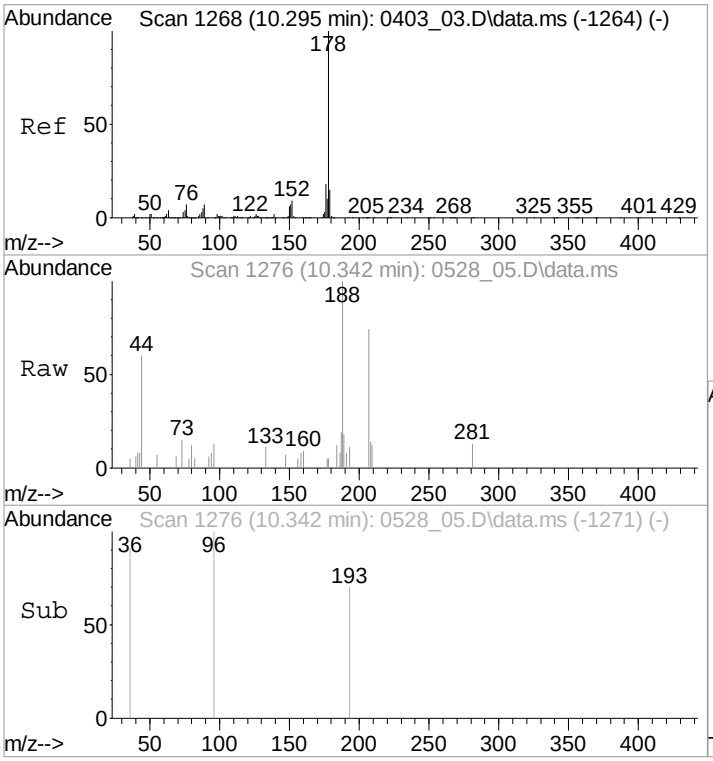


#72
Phenanthrene
Concen: Below Cal
RT: 10.342 min Scan# 1276
Delta R.T. -0.012 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:178 Resp: 59

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	35.2
152	0.0	0.0	30.1
89	0.0	0.0	27.5

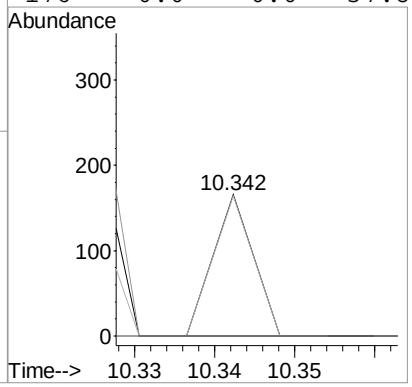


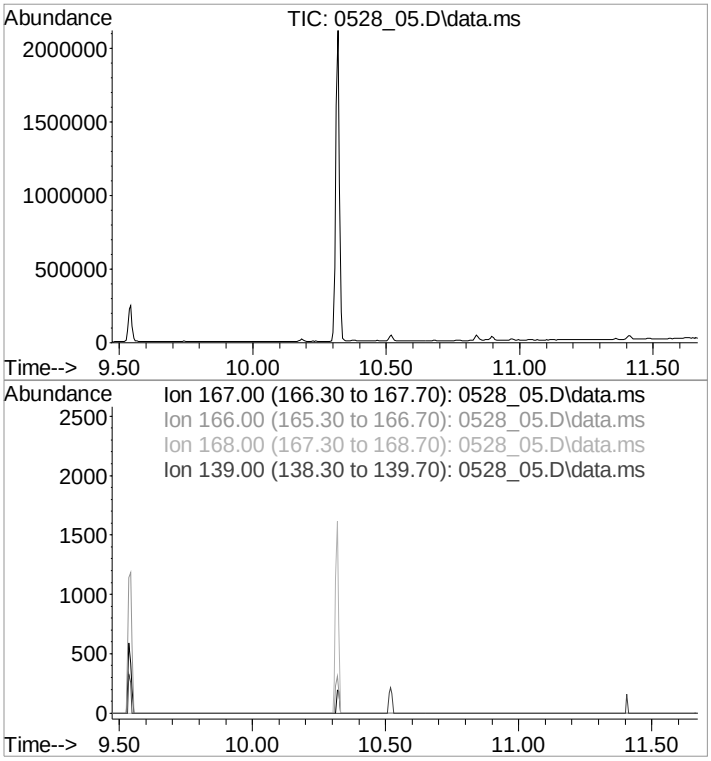


#73
Anthracene
Concen: Below Cal
RT: 10.342 min Scan# 1276
Delta R.T. -0.070 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:178 Resp: 59

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	34.9
177	98.8	0.0	29.5#
176	0.0	0.0	37.8



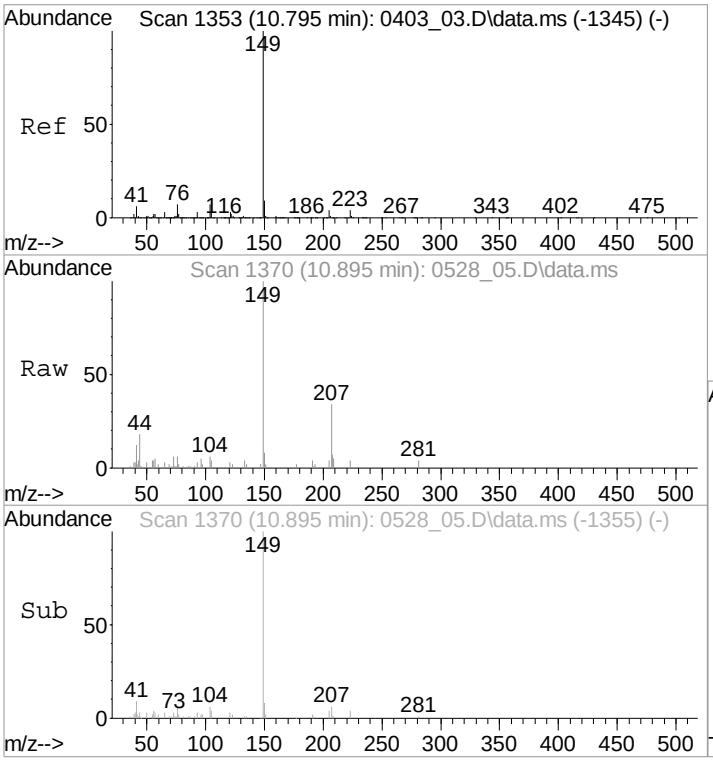


#74
Carbazole
Concen: N.D.
Expected RT: 10.57 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 167

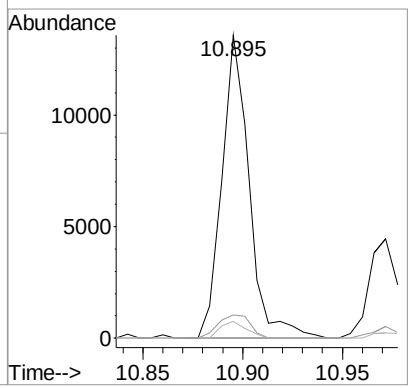
Sig	Exp Ratio
167	100
166	20.9
168	13.4
139	13.0

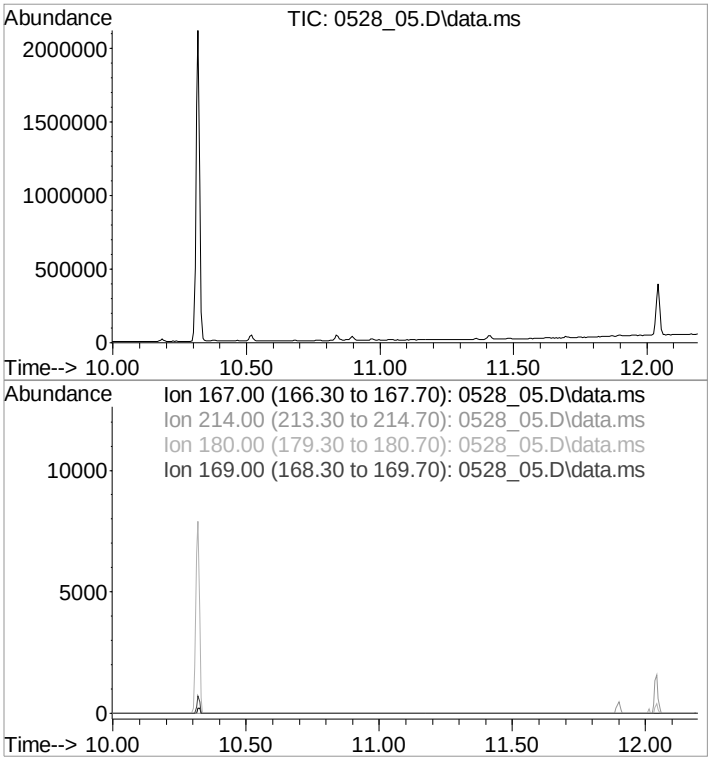


#75
Di-n-butyl phthalate
Concen: 0.5381672 ppb
RT: 10.895 min Scan# 1370
Delta R.T. -0.012 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:149 Resp: 12921

Ion	Ratio	Lower	Upper
149	100		
150	7.6	0.0	29.4
104	5.5	0.0	25.4



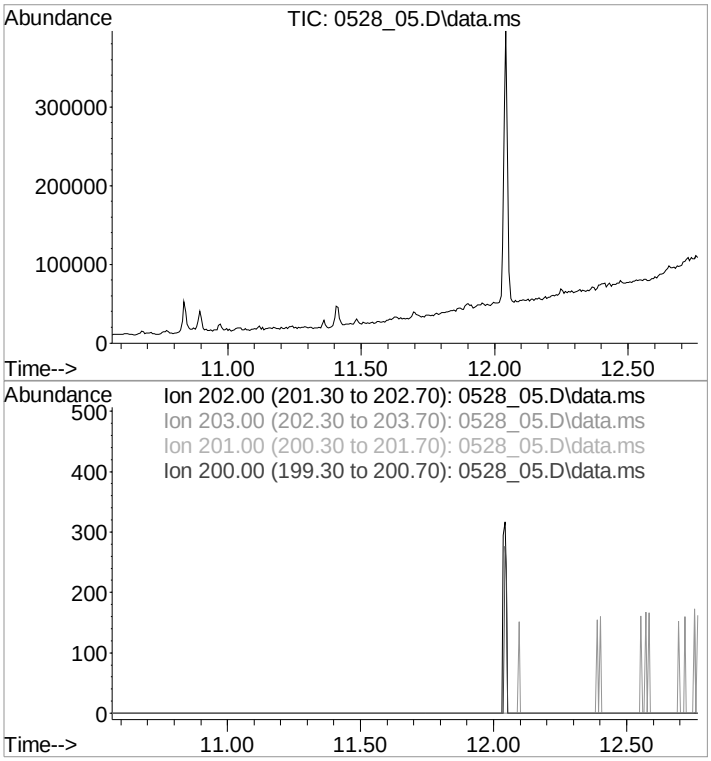


#76
2-nitrodiphenylamine
Concen: N.D.
Expected RT: 11.10 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 167

Sig	Exp Ratio
167	100
214	92.4
180	37.1
169	31.7

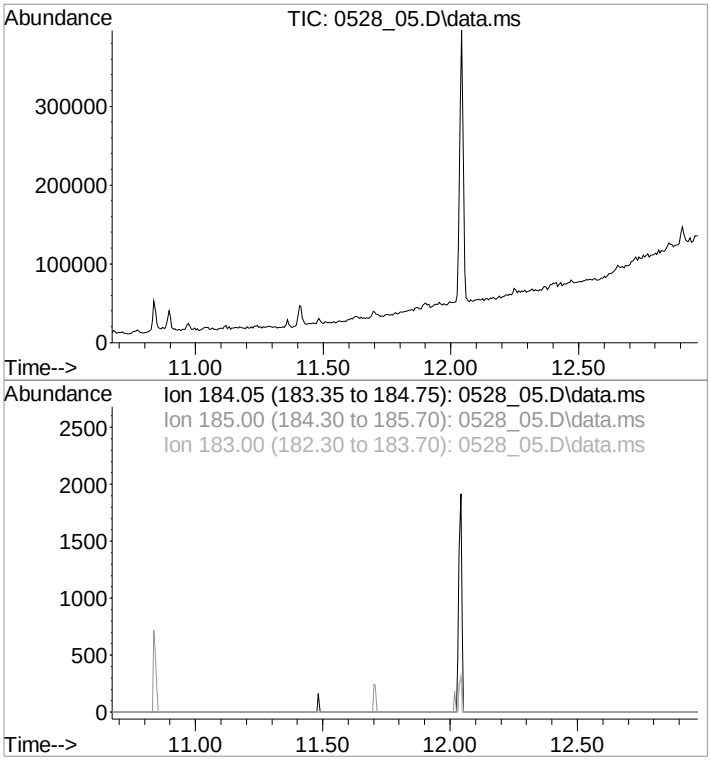


#77
Fluoranthene
Concen: N.D.
Expected RT: 11.67 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 202

Sig	Exp Ratio
202	100
203	17.2
201	15.3
200	20.8

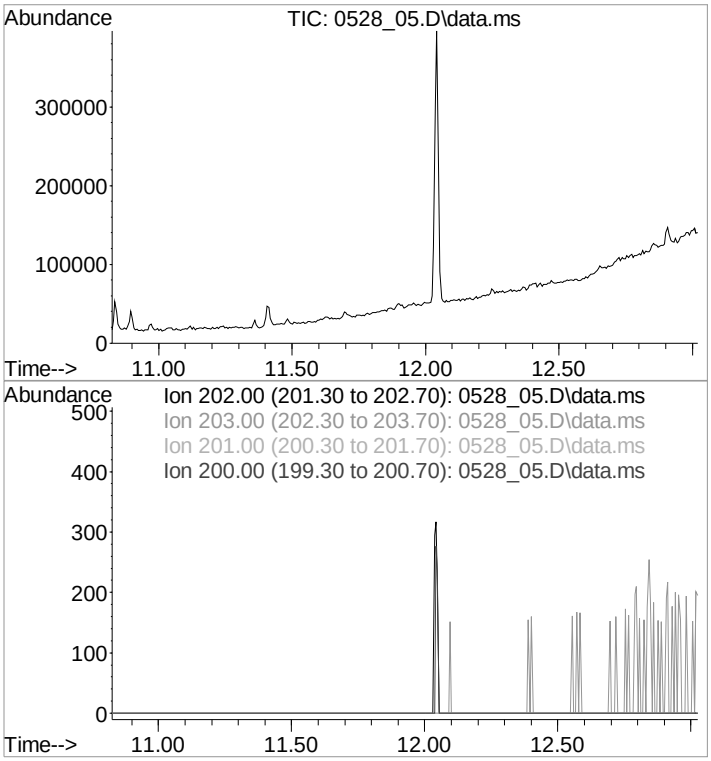


#79
Benzidine
Concen: N.D.
Expected RT: 11.77 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
185	14.1
183	11.7

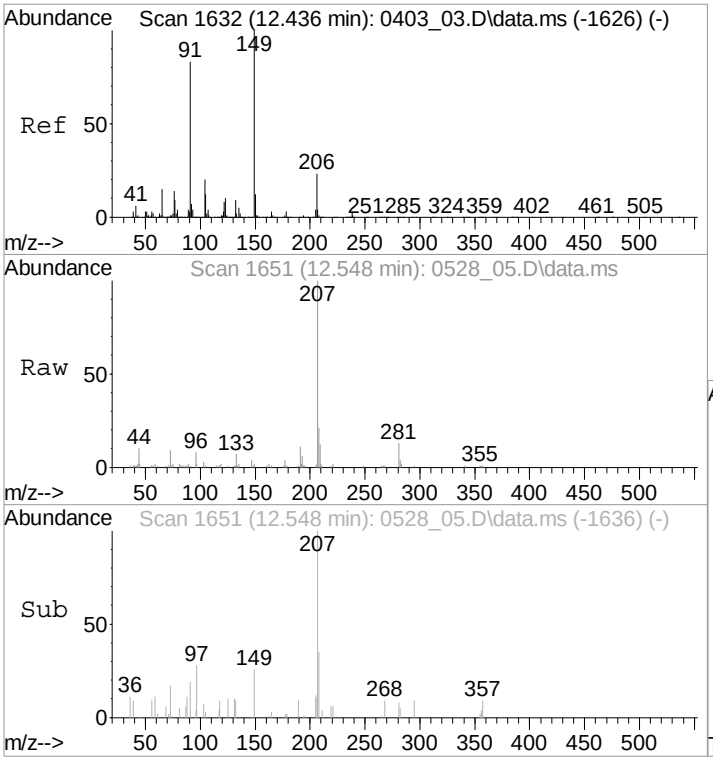


#80
Pyrene
Concen: N.D.
Expected RT: 11.92 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 202

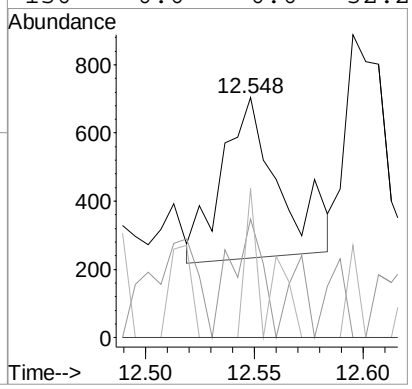
Sig	Exp Ratio
202	100
203	17.2
201	17.9
200	20.8

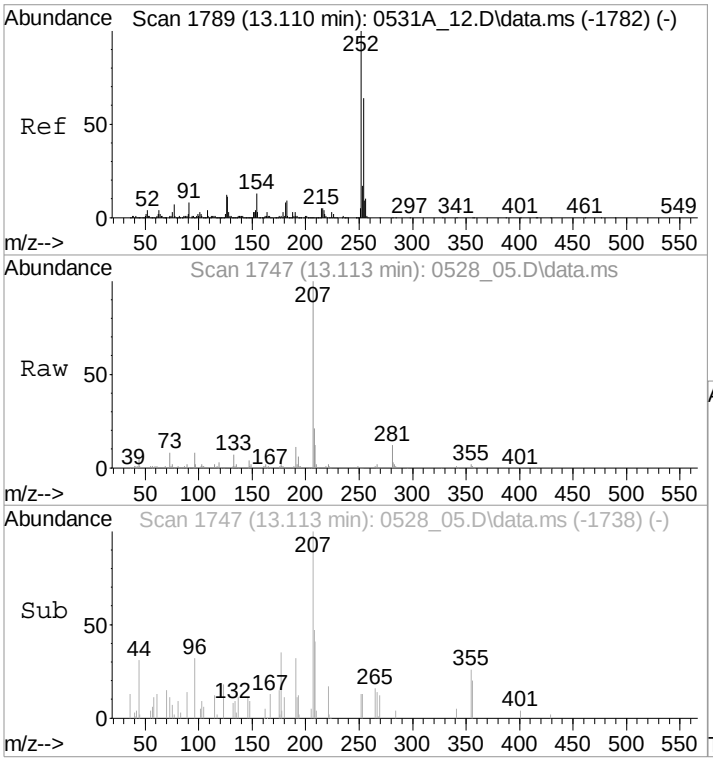


#82
Benzylbutyl phthalate
Concen: Below Cal
RT: 12.548 min Scan# 1651
Delta R.T. -0.012 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:149 Resp: 870

Ion	Ratio	Lower	Upper
149	100		
91	45.8	48.1	88.1#
206	101.6	2.1	42.1#
150	0.0	0.0	32.2

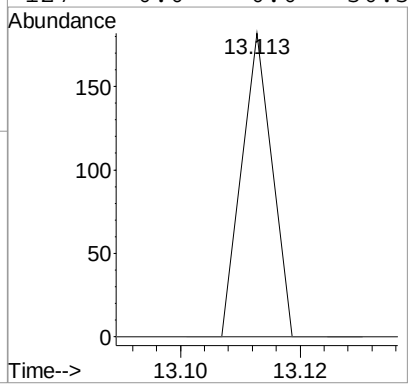


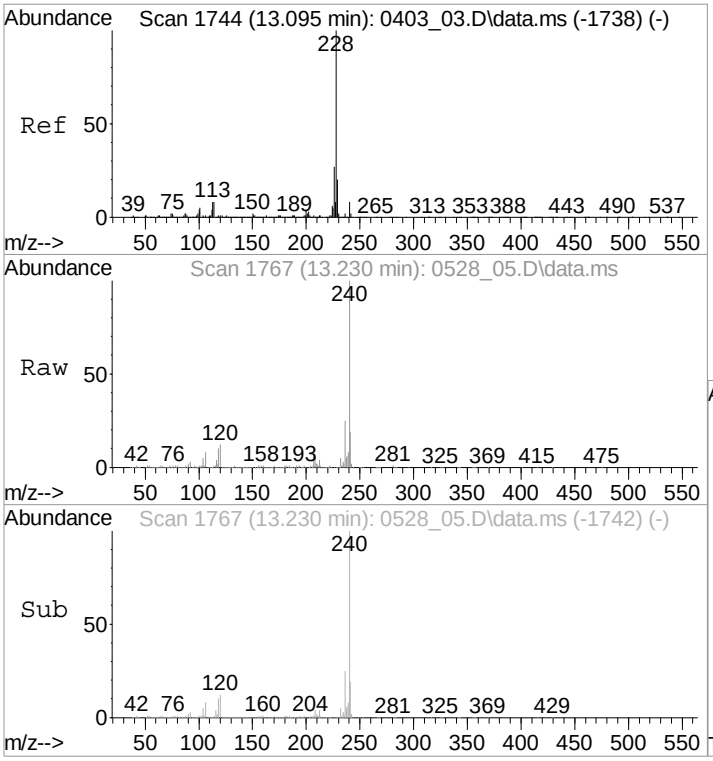


#83
3,3-Dichlorobenzidine
Concen: Below Cal
RT: 13.113 min Scan# 1747
Delta R.T. -0.047 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:252 Resp: 64

Ion	Ratio	Lower	Upper
252	100		
254	0.0	44.8	84.8#
154	0.0	0.0	33.1
127	0.0	0.0	30.3

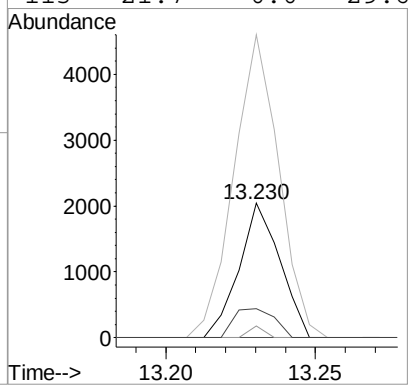


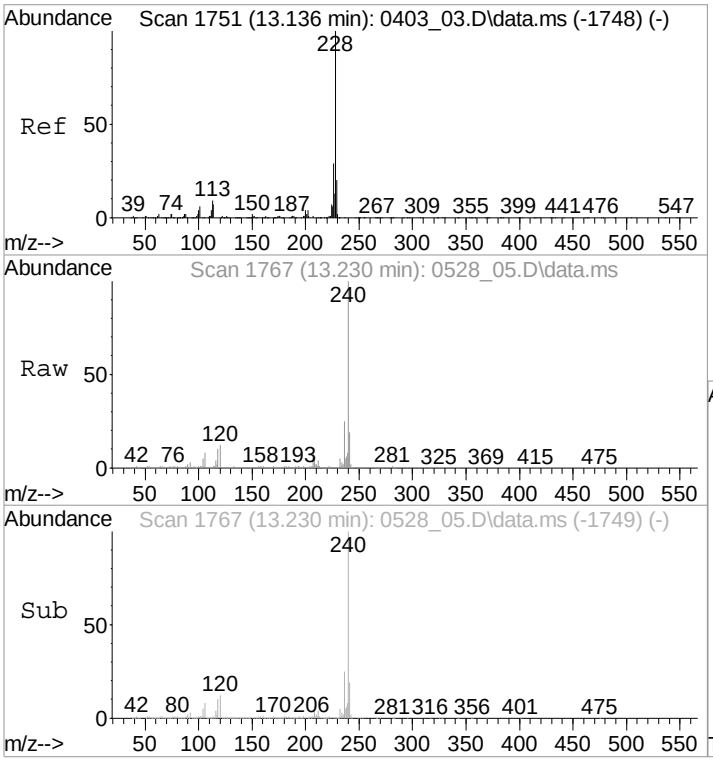


#84
Benzo(a)anthracene
Concen: Below Cal
RT: 13.230 min Scan# 1767
Delta R.T. -0.006 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:228 Resp: 1937

Ion	Ratio	Lower	Upper
228	100		
226	8.6	6.6	46.6
114	225.1	0.0	30.2#
113	21.7	0.0	29.6

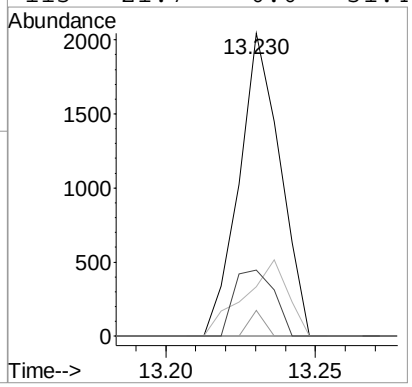


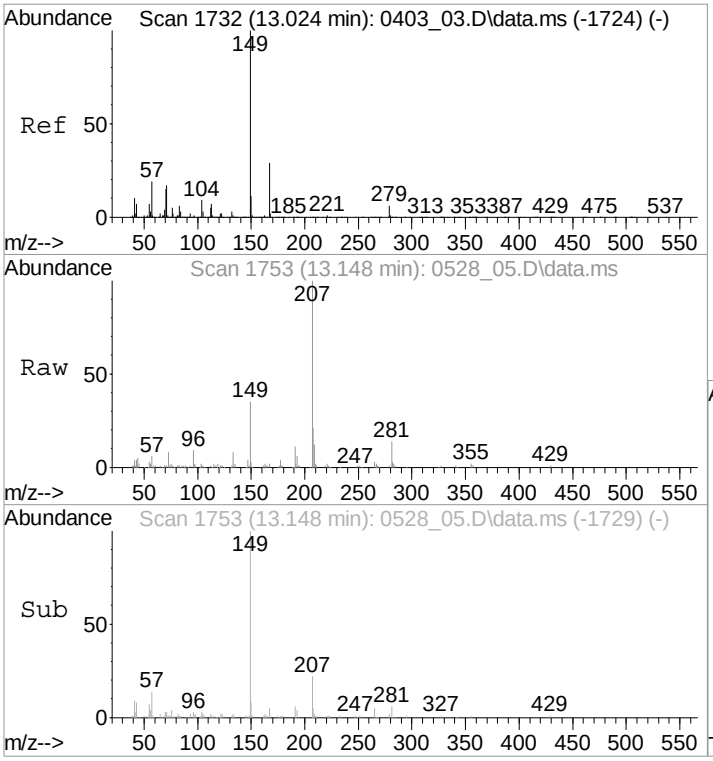


#85
Chrysene
Concen: Below Cal
RT: 13.230 min Scan# 1767
Delta R.T. -0.047 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:228 Resp: 1937

Ion	Ratio	Lower	Upper
228	100		
226	8.6	9.7	49.7#
229	16.3	0.1	40.1
113	21.7	0.0	31.4

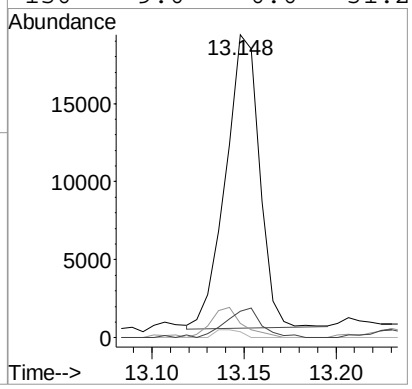


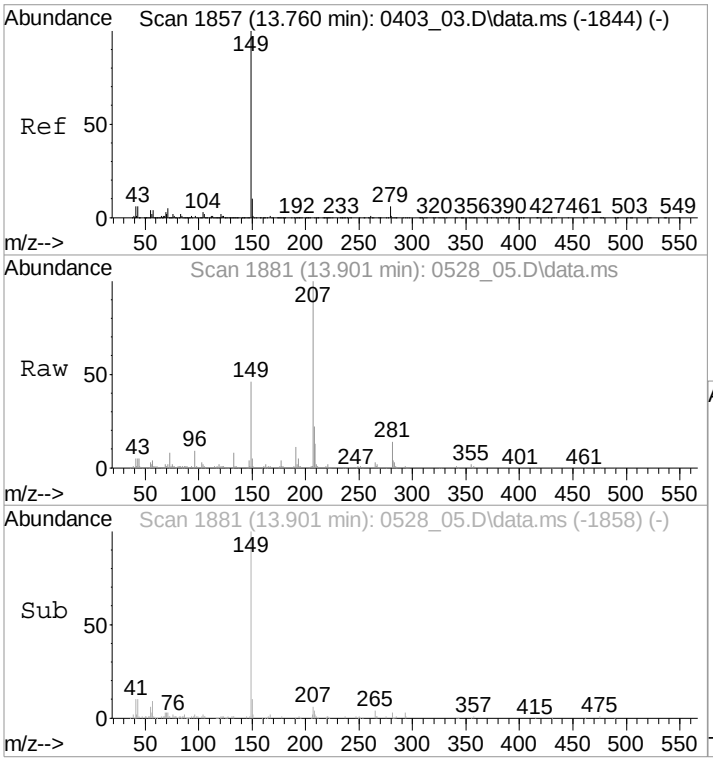


#86
bis(2-Ethylhexyl)phthalate
Concen: 1.4894876 ppb
RT: 13.148 min Scan# 1753
Delta R.T. -0.012 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:149 Resp: 23956

Ion	Ratio	Lower	Upper
149	100		
167	4.9	11.3	51.3#
279	2.1	0.0	27.2
150	9.0	0.0	31.2

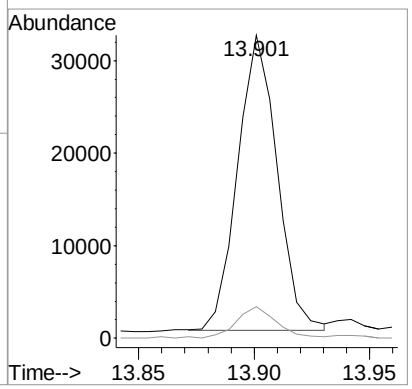


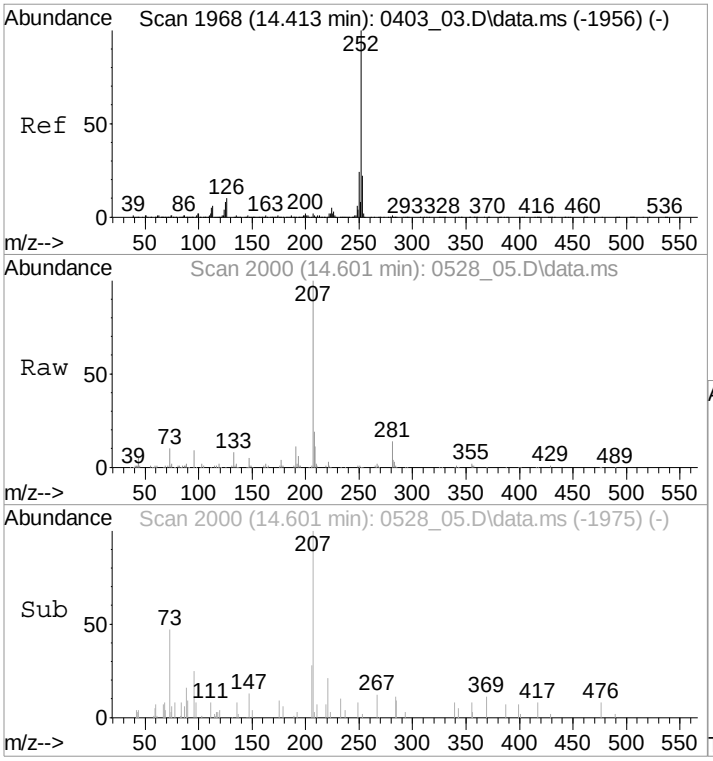


#87
Di-n-octyl phthalate
Concen: 1.4181530 ppb m
RT: 13.901 min Scan# 1881
Delta R.T. -0.017 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:149 Resp: 38068

Ion	Ratio	Lower	Upper
149	100		
150	10.4	0.0	29.8

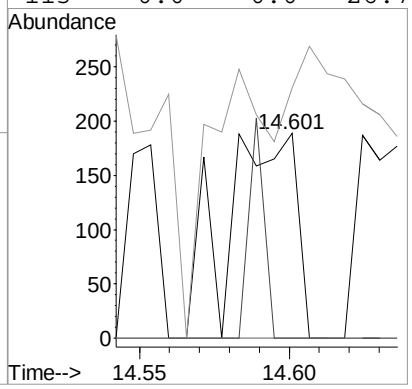


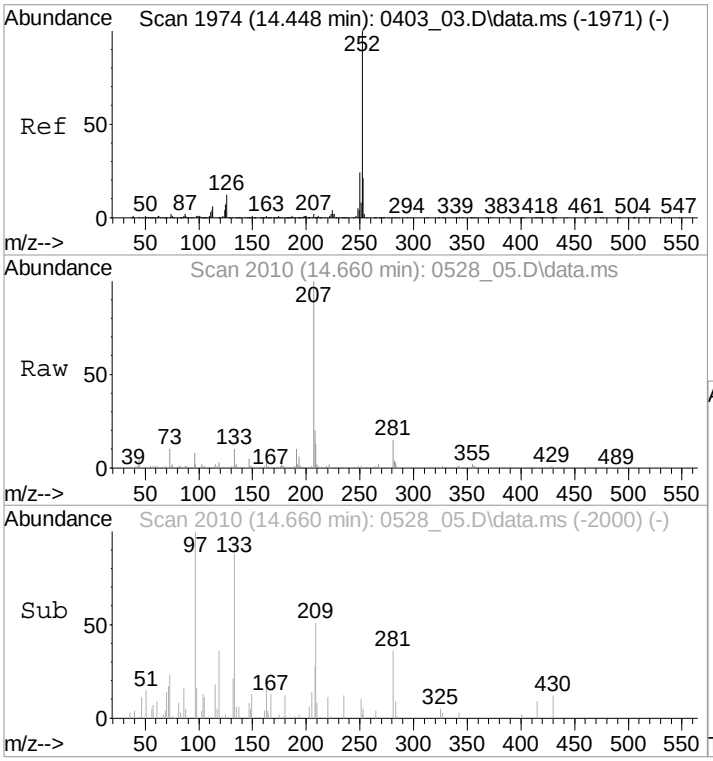


#89
Benzo(b)fluoranthene
Concen: Below Cal
RT: 14.601 min Scan# 2000
Delta R.T. -0.011 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:252 Resp: 306

Ion	Ratio	Lower	Upper
252	100		
253	57.7	1.9	41.9#
126	0.0	0.0	33.6
113	0.0	0.0	26.7

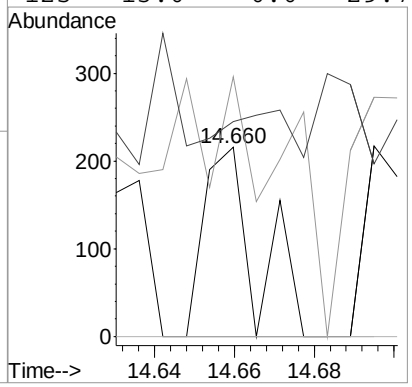


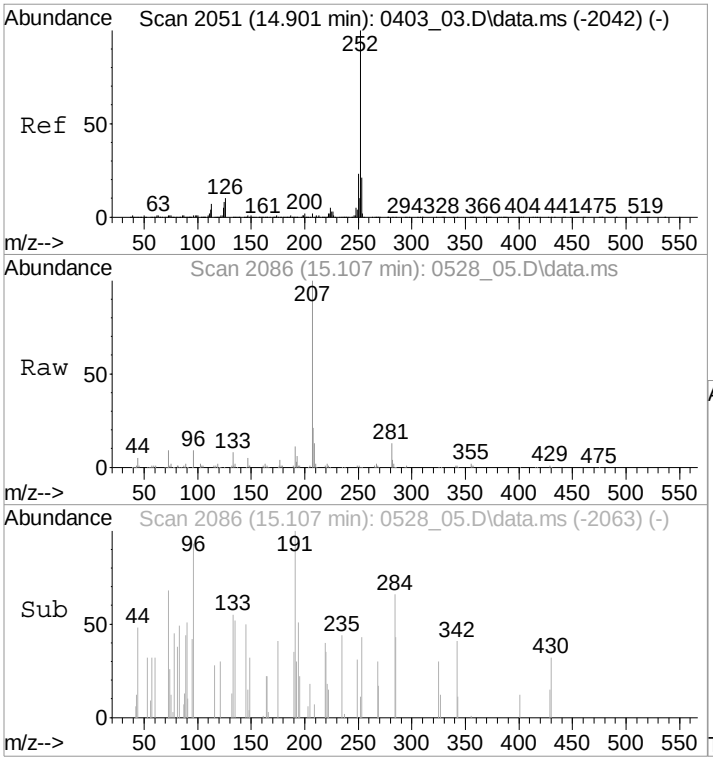


#90
Benzo(k)fluoranthene
Concen: Below Cal
RT: 14.660 min Scan# 2010
Delta R.T. 0.007 min
Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:252 Resp: 198

Ion	Ratio	Lower	Upper
252	100		
253	137.0	1.9	41.9#
126	0.0	0.0	34.6
125	13.0	0.0	29.7

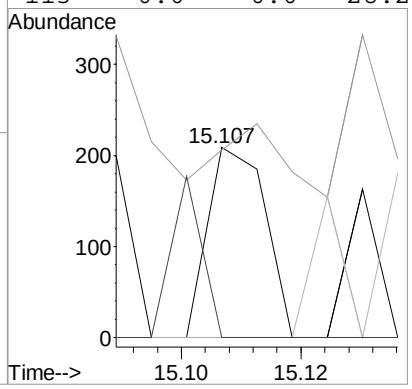


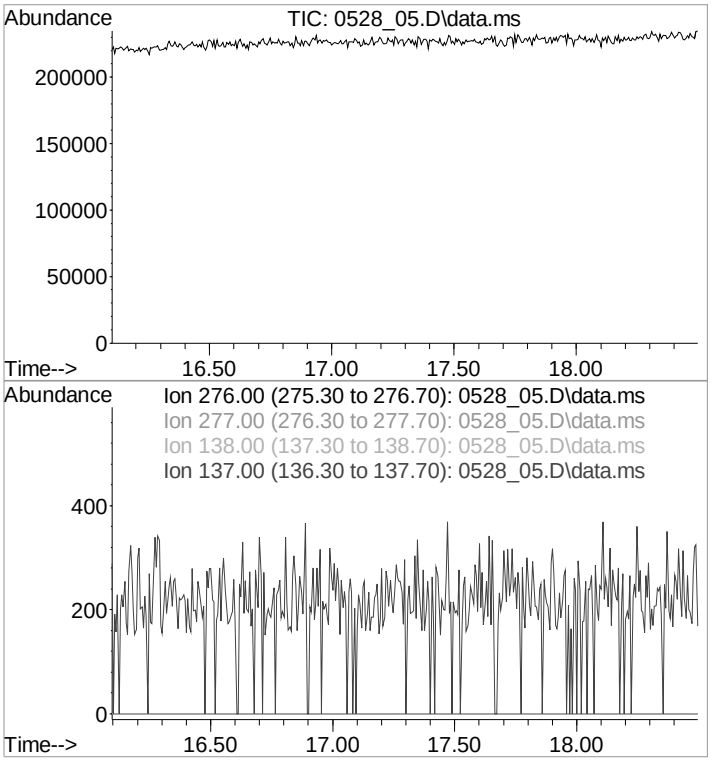


#91
Benzo(a)pyrene
Concen: Below Cal
RT: 15.107 min Scan# 2086
Delta R.T. -0.017 min
Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion:252 Resp: 139

Ion	Ratio	Lower	Upper
252	100		
253	24.9	1.9	41.9
126	0.0	0.0	35.1
113	0.0	0.0	28.2



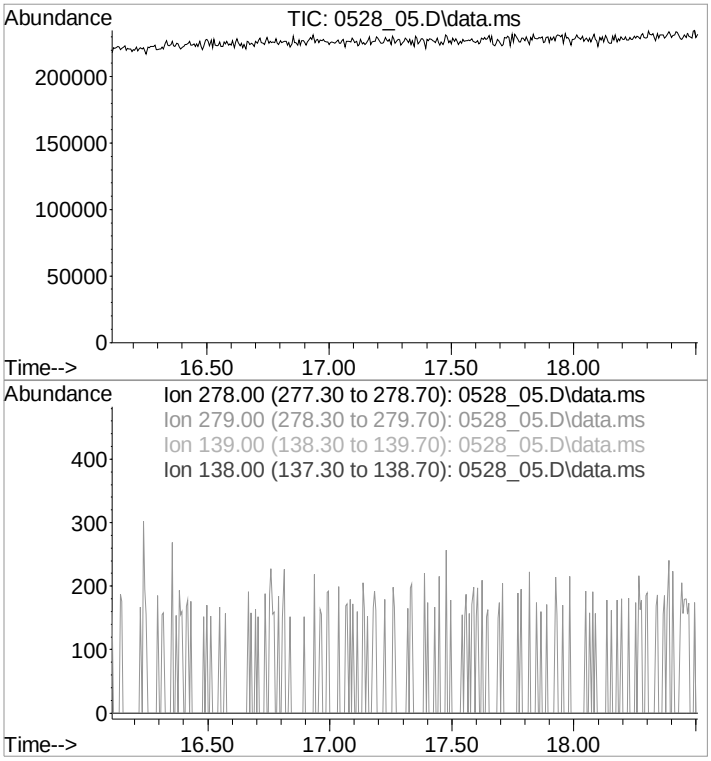


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 17.25 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
277	25.3
138	25.4
137	17.1

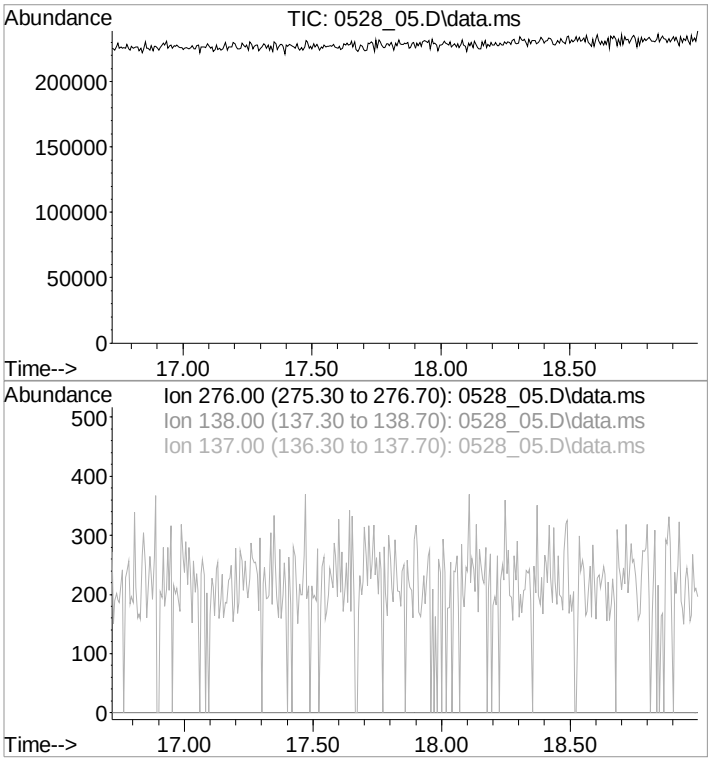


#93
Dibenz(a,h)anthracene
Concen: N.D.
Expected RT: 17.26 min

Lab File: 0528 05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 278

Sig	Exp Ratio
278	100
279	23.3
139	17.6
138	24.1



#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.87 min

Lab File: 0528_05.D
Acq: 28 May 2015 3:12 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	24.0
137	20.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 06.D
Acq On : 28 May 2015 3:35 pm
Operator : 377
Sample : LCS 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005

Quant Time: May 28 17:14:08 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	156689	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	593656	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	404850	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	762923	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	839427	8000.0000000 ppb	0.00
88) Perylene-d12	15.183	264	811625	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.349	112	35159	8.3572703 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 41.79%		
7) Phenol-d5	5.096	99	32316	5.6876223 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 28.44%		
23) Nitrobenzene-d5	6.031	82	34956	6.3296535 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 63.30%		
44) 2-Fluorobiphenyl	7.931	172	97192	7.3625245 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 73.63%		
67) 2,4,6-Tribromophenol	9.542	330	36091	15.4401526 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 77.20%		
81) p-Terphenyl-d14	12.042	244	121462	6.5452160 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 65.45%		
Target Compounds					Qvalue
2) Pyridine	3.407	79	93548	16.2119175 ppb	98
3) N-Nitrosodimethylamine	3.378	42	61296	20.5229754 ppb	96
5) Aniline	5.184	66	69776	25.6220542 ppb	95
6) bis(2-Chloroethyl)ether	5.225	63	122437	32.9943785 ppb	96
8) Phenol	5.107	94	86734	14.8540000 ppb	96
9) Benzaldehyde	5.096	105	73623	30.2125677 ppb	96
10) 2-Chlorophenol	5.296	128	164168	31.7021616 ppb	97
11) n-Decane	5.313	41	105356	31.6456288 ppb	98
12) 1,3-Dichlorobenzene	5.449	146	192026	32.0930096 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	198601	32.4117455 ppb	97
14) Benzyl Alcohol	5.601	79	127374	29.2556945 ppb	99
15) 1,2-Dichlorobenzene	5.660	146	190777	32.4446845 ppb	97
16) bis(2-Chloroisopropyl)...	5.737	121	58942	34.2834146 ppb	98
17) 2-Methylphenol	5.690	108	125527	27.9836495 ppb	99
18) Hexachloroethane	6.001	117	84460	32.4443360 ppb	97
19) N-Nitrosodi-n-propylamine	5.860	70	120651	37.0755368 ppb	94
20) 3&4-Methyl phenol	5.831	107	151300	29.0217767 ppb	90
21) Acetophenone	5.872	105	238284	33.5151324 ppb	99
24) Nitrobenzene	6.048	77	195550	34.6719400 ppb	97
25) Isophorone	6.284	82	374591	37.9438990 ppb	97
26) 2-Nitrophenol	6.378	139	108806	38.5522203 ppb	94
27) 2,4-Dimethylphenol	6.384	107	193328	36.0822350 ppb	97
28) bis(2-Chlorethoxy)methane	6.495	93	222665	35.2969031 ppb	99
29) 2,4-Dichlorophenol	6.613	162	181604	37.0684410 ppb	96
30) Benzoic Acid	6.401	105	36739	14.8504086 ppb #	1
31) 1,2,4-Trichlorobenzene	6.719	180	189546	33.0228818 ppb	97
32) Naphthalene	6.807	128	556205	33.6186943 ppb	99
33) 4-Chloroaniline	6.843	65	66118	31.8065704 ppb	90
34) Hexachloro-1,3-butadiene	6.925	225	113276	32.1543542 ppb	98
35) Caprolactam	7.184	113	13366	8.6022281 ppb	94
36) 4-Chloro-3-methylphenol	7.331	107	173147	35.8821080 ppb	99
37) 2-Methylnaphthalene	7.542	142	399377	33.5672630 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 06.D
Acq On : 28 May 2015 3:35 pm
Operator : 377
Sample : LCS 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005

Quant Time: May 28 17:14:08 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

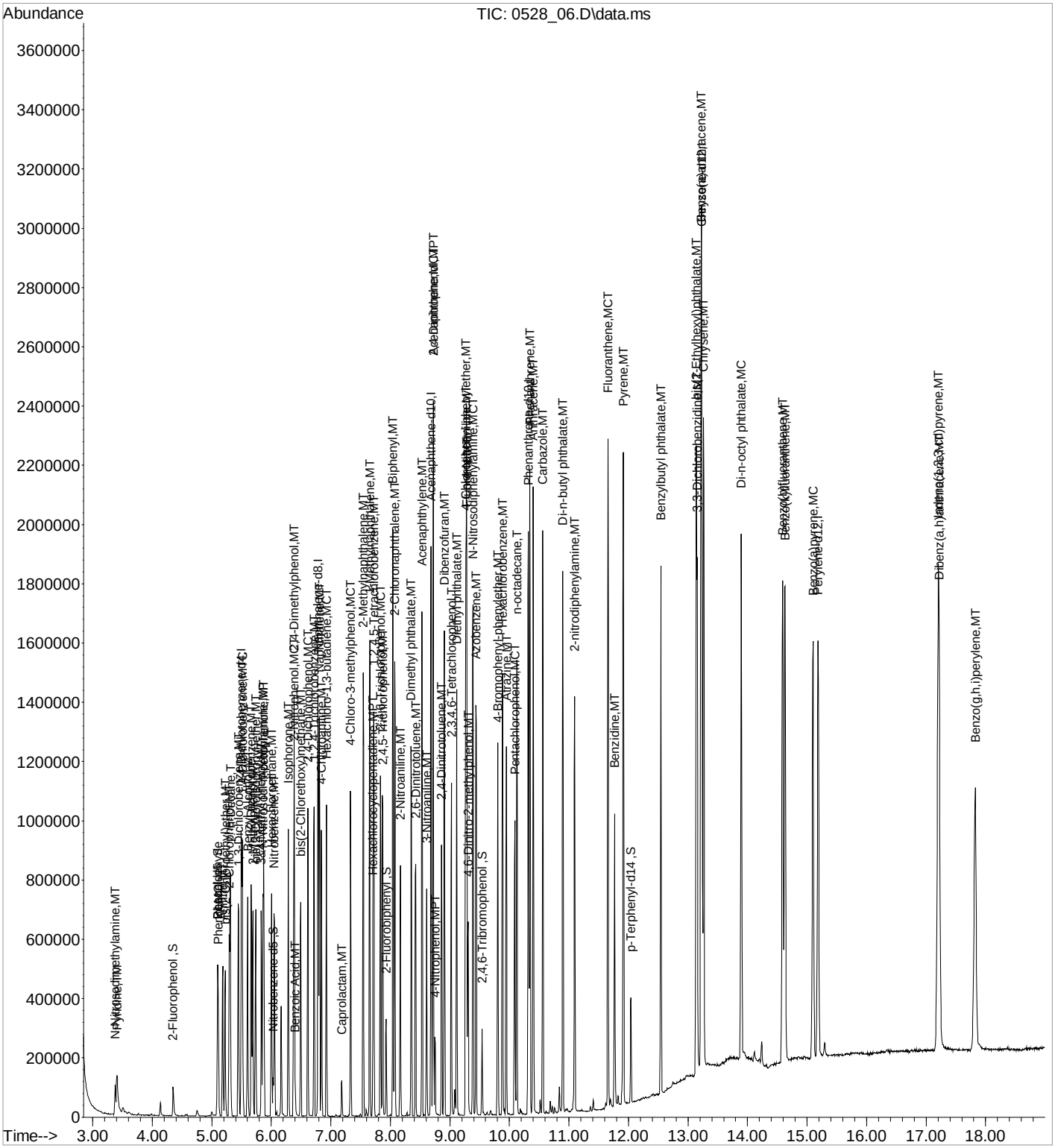
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	418023	39.2908615 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	214357	37.4784237 ppb		100
41)	Hexachlorocyclopentadiene	7.707	237	93854	21.9530188 ppb		98
42)	2,4,6-Trichlorophenol	7.831	196	151293	39.6998943 ppb		98
43)	2,4,5-Trichlorophenol	7.872	196	167104	41.1020465 ppb		98
45)	Biphenyl	8.042	154	566538	39.5186580 ppb		100
46)	2-Chloronaphthalene	8.072	162	451578	38.3970536 ppb		99
47)	2-Nitroaniline	8.166	138	135848	40.2810467 ppb		95
48)	Acenaphthylene	8.531	152	677620	38.0198557 ppb		99
49)	Dimethyl phthalate	8.348	163	497703	38.1047909 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	111525	38.1689788 ppb		93
51)	3-Nitroaniline	8.607	138	110288	37.0551719 ppb		94
52)	Acenaphthene	8.719	153	450959	38.2222539 ppb		99
53)	2,4-Dinitrophenol	8.719	184	56509	30.3132457 ppb	#	75
54)	Dibenzofuran	8.907	168	654624	38.3654514 ppb		99
55)	2,4-Dinitrotoluene	8.860	165	154823	40.4622537 ppb		95
56)	2,3,4,6-Tetrachlorophenol	9.025	232	132836	45.5707240 ppb		98
57)	4-Nitrophenol	8.754	139	41015	16.4369453 ppb		88
58)	Fluorene	9.284	166	545222	38.2550907 ppb		99
59)	4-Chlorophenyl-phenyle...	9.266	204	266578	37.4810434 ppb		93
60)	Diethyl phthalate	9.113	149	522948	39.8112246 ppb		99
61)	4-Nitroaniline	9.272	138	122102	43.7322289 ppb		95
62)	Azobenzene	9.436	77	524403	39.0318661 ppb		97
63)	Atrazine	9.948	200	146422	41.5815891 ppb		99
65)	4,6-Dinitro-2-methylph...	9.307	198	100947	39.5964728 ppb		88
66)	N-Nitrosodiphenylamine	9.389	169	460496	38.9453561 ppb		99
68)	4-Bromophenyl-phenylether	9.807	248	161536	37.9617560 ppb		92
69)	Hexachlorobenzene	9.883	284	193938	38.8861168 ppb		98
70)	n-octadecane	10.125	55	60784	28.6852746 ppb		99
71)	Pentachlorophenol	10.089	266	117022	40.5574928 ppb		96
72)	Phenanthrene	10.342	178	823879	37.2882433 ppb		99
73)	Anthracene	10.401	178	827845	39.1043568 ppb		99
74)	Carbazole	10.560	167	762386	39.2651555 ppb		100
75)	Di-n-butyl phthalate	10.895	149	910712	39.3455397 ppb		99
76)	2-nitrodiphenylamine	11.095	167	190671	39.3588350 ppb		99
77)	Fluoranthene	11.654	202	928708	38.7181552 ppb		99
79)	Benzidine	11.766	184	390199	38.5052424 ppb		100
80)	Pyrene	11.913	202	968368	40.1758201 ppb		100
82)	Benzylbutyl phthalate	12.542	149	415956	38.3522189 ppb		99
83)	3,3-Dichlorobenzidine	13.154	252	368627	43.0831774 ppb		99
84)	Benzo(a)anthracene	13.219	228	974444	39.6830784 ppb		99
85)	Chrysene	13.260	228	905610	36.7049338 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.136	149	610534	37.0252180 ppb		100
87)	Di-n-octyl phthalate	13.895	149	1024427	37.2228184 ppb		100
89)	Benzo(b)fluoranthene	14.589	252	935785	36.2771253 ppb		99
90)	Benzo(k)fluoranthene	14.630	252	944769	38.3864757 ppb		99
91)	Benzo(a)pyrene	15.101	252	914499	37.6626566 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.207	276	1080700	38.7545194 ppb		99
93)	Dibenz(a,h)anthracene	17.218	278	911987	38.0170941 ppb		97
94)	Benzo(g,h,i)perylene	17.824	276	904715	38.7498398 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 06.D
Acq On : 28 May 2015 3:35 pm
Operator : 377
Sample : LCS 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005

Quant Time: May 28 17:14:08 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 07.D
Acq On : 28 May 2015 3:59 pm
Operator : 377
Sample : LCSD 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005

Quant Time: May 28 17:14:12 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	155282	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	588521	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	400904	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	763597	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	839293	8000.0000000 ppb	0.00
88) Perylene-d12	15.183	264	827931	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	32524	7.8009821 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 39.00%		
7) Phenol-d5	5.096	99	30369	5.3933802 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 26.97%		
23) Nitrobenzene-d5	6.031	82	33513	6.1213105 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 61.21%		
44) 2-Fluorobiphenyl	7.931	172	91629	7.0094338 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 70.09%		
67) 2,4,6-Tribromophenol	9.542	330	34090	14.5712285 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 72.86%		
81) p-Terphenyl-d14	12.042	244	112729	6.0755912 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 60.76%		
Target Compounds					Qvalue
2) Pyridine	3.413	79	88597	15.4930274 ppb	98
3) N-Nitrosodimethylamine	3.378	42	52267	17.6584734 ppb	92
5) Aniline	5.184	66	67653	25.0675754 ppb	99
6) bis(2-Chloroethyl)ether	5.225	63	116359	31.6405953 ppb	95
8) Phenol	5.107	94	86439	14.9376118 ppb	95
9) Benzaldehyde	5.096	105	68887	28.5252061 ppb	97
10) 2-Chlorophenol	5.296	128	157327	30.6563907 ppb	99
11) n-Decane	5.313	41	102352	31.0218849 ppb	99
12) 1,3-Dichlorobenzene	5.449	146	184905	31.1828968 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	187930	30.9481359 ppb	97
14) Benzyl Alcohol	5.601	79	121807	28.2305452 ppb	100
15) 1,2-Dichlorobenzene	5.660	146	182718	31.3556830 ppb	98
16) bis(2-Chloroisopropyl)...	5.737	121	56141	32.9501002 ppb	99
17) 2-Methylphenol	5.690	108	119120	26.7959575 ppb	97
18) Hexachloroethane	6.001	117	80756	31.3025707 ppb	96
19) N-Nitrosodi-n-propylamine	5.860	70	114014	35.3534740 ppb	94
20) 3&4-Methyl phenol	5.831	107	144825	28.0314781 ppb	89
21) Acetophenone	5.872	105	229566	32.5814957 ppb	99
24) Nitrobenzene	6.048	77	189438	33.8813198 ppb	96
25) Isophorone	6.284	82	348874	35.6472571 ppb	98
26) 2-Nitrophenol	6.378	139	101491	36.2741278 ppb	96
27) 2,4-Dimethylphenol	6.384	107	181515	34.1730774 ppb	98
28) bis(2-Chlorethoxy)methane	6.496	93	211135	33.7611923 ppb	98
29) 2,4-Dichlorophenol	6.613	162	169517	34.9031856 ppb	97
30) Benzoic Acid	6.401	105	36882	15.0120355 ppb #	1
31) 1,2,4-Trichlorobenzene	6.719	180	180984	31.8063201 ppb	99
32) Naphthalene	6.807	128	529164	32.2633264 ppb	99
33) 4-Chloroaniline	6.843	65	62747	30.4482965 ppb	91
34) Hexachloro-1,3-butadiene	6.925	225	109184	31.2632256 ppb	99
35) Caprolactam	7.184	113	12653	8.2144010 ppb	96
36) 4-Chloro-3-methylphenol	7.331	107	164391	34.3648073 ppb	98
37) 2-Methylnaphthalene	7.543	142	380696	32.2763259 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 07.D
Acq On : 28 May 2015 3:59 pm
Operator : 377
Sample : LCSD 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005

Quant Time: May 28 17:14:12 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

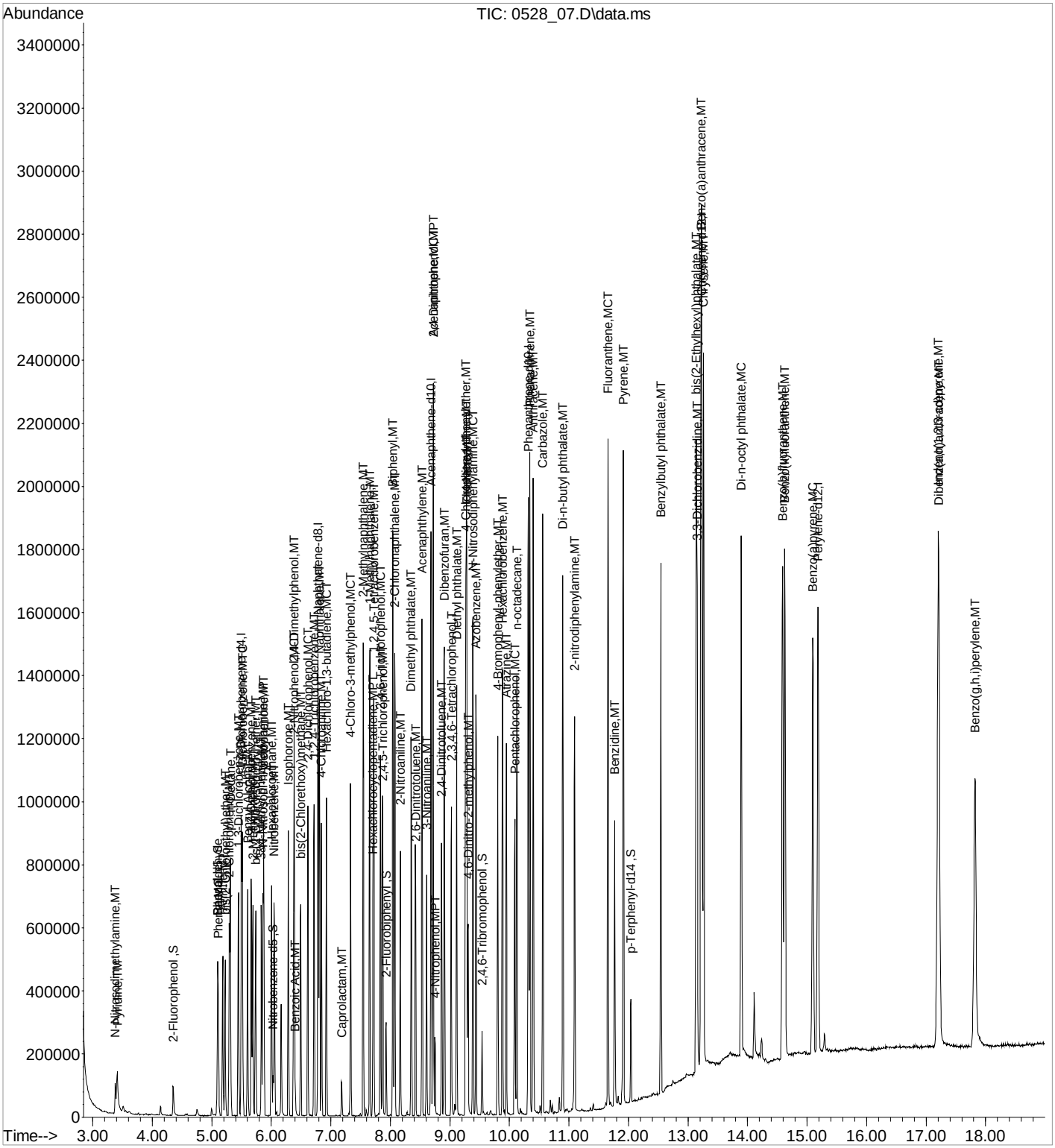
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	397428	37.6810271 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	203600	35.9082564 ppb		100
41)	Hexachlorocyclopentadiene	7.707	237	89990	21.2563879 ppb		98
42)	2,4,6-Trichlorophenol	7.831	196	142079	37.6490621 ppb		98
43)	2,4,5-Trichlorophenol	7.872	196	157087	39.0185027 ppb		96
45)	Biphenyl	8.042	154	535856	37.7463528 ppb		100
46)	2-Chloronaphthalene	8.072	162	428895	36.8272985 ppb		99
47)	2-Nitroaniline	8.166	138	129470	38.7677325 ppb		94
48)	Acenaphthylene	8.531	152	634864	35.9715129 ppb		99
49)	Dimethyl phthalate	8.348	163	465698	36.0053844 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	106190	36.7008129 ppb		88
51)	3-Nitroaniline	8.607	138	103318	35.0550278 ppb		98
52)	Acenaphthene	8.719	153	420292	35.9736175 ppb		99
53)	2,4-Dinitrophenol	8.719	184	53212	29.0135153 ppb	#	83
54)	Dibenzofuran	8.907	168	621327	36.7724334 ppb		99
55)	2,4-Dinitrotoluene	8.860	165	143910	37.9803811 ppb		97
56)	2,3,4,6-Tetrachlorophenol	9.025	232	125185	43.3686783 ppb		94
57)	4-Nitrophenol	8.754	139	38204	15.4611212 ppb		88
58)	Fluorene	9.284	166	511056	36.2107992 ppb		100
59)	4-Chlorophenyl-phenyle...	9.266	204	247421	35.1299619 ppb		94
60)	Diethyl phthalate	9.113	149	483395	37.1623302 ppb		99
61)	4-Nitroaniline	9.272	138	113502	41.0521686 ppb		96
62)	Azobenzene	9.437	77	490889	36.8970124 ppb		97
63)	Atrazine	9.948	200	135475	38.8514884 ppb		99
65)	4,6-Dinitro-2-methylph...	9.307	198	94722	37.3304942 ppb		88
66)	N-Nitrosodiphenylamine	9.389	169	425741	35.9742532 ppb		100
68)	4-Bromophenyl-phenylether	9.801	248	153239	35.9801337 ppb		99
69)	Hexachlorobenzene	9.884	284	181868	36.4337983 ppb		97
70)	n-octadecane	10.125	55	55204	26.0289577 ppb		99
71)	Pentachlorophenol	10.089	266	110107	38.1272084 ppb		97
72)	Phenanthrene	10.342	178	777493	35.1577823 ppb		100
73)	Anthracene	10.401	178	774798	36.5663070 ppb		99
74)	Carbazole	10.560	167	713098	36.6942589 ppb		100
75)	Di-n-butyl phthalate	10.895	149	838254	36.1831670 ppb		100
76)	2-nitrodiphenylamine	11.095	167	174520	36.2959368 ppb		98
77)	Fluoranthene	11.654	202	858881	35.7754380 ppb		100
79)	Benzidine	11.766	184	367281	36.2494570 ppb		99
80)	Pyrene	11.913	202	896584	37.2035719 ppb		99
82)	Benzylbutyl phthalate	12.542	149	403159	37.1782373 ppb		98
83)	3,3-Dichlorobenzidine	13.154	252	354551	41.4446648 ppb		99
84)	Benzo(a)anthracene	13.219	228	924857	37.6618812 ppb		100
85)	Chrysene	13.260	228	872425	35.3655707 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.136	149	587006	35.6040698 ppb		99
87)	Di-n-octyl phthalate	13.895	149	989603	35.9632203 ppb		99
89)	Benzo(b)fluoranthene	14.589	252	918599	34.9095319 ppb		99
90)	Benzo(k)fluoranthene	14.624	252	893861	35.6027765 ppb		99
91)	Benzo(a)pyrene	15.095	252	880150	35.5341295 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.207	276	1037464	36.4713225 ppb		100
93)	Dibenz(a,h)anthracene	17.212	278	874547	35.7383663 ppb		99
94)	Benzo(g,h,i)perylene	17.818	276	869003	36.4872110 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 07.D
Acq On : 28 May 2015 3:59 pm
Operator : 377
Sample : LCSD 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005

Quant Time: May 28 17:14:12 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 12.D
Acq On : 28 May 2015 6:19 pm
Operator : 377
Sample : L767115-07 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005

Quant Time: May 29 11:23:53 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.496	152	166291	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	617753	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	424059	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	807805	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	830919	8000.0000000 ppb	0.00
88) Perylene-d12	15.177	264	822356	8000.0000000 ppb	-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.349	112	1835	0.4109924 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery	= 2.05%#	
7) Phenol-d5	5.096	99	1817	0.3013269 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery	= 1.51%#	
23) Nitrobenzene-d5	6.031	82	34553	6.0126229 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 60.13%	
44) 2-Fluorobiphenyl	7.931	172	95529	6.9087476 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery	= 69.09%	
67) 2,4,6-Tribromophenol	9.542	330	10914	4.4097178 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery	= 22.05%	
81) p-Terphenyl-d14	12.042	244	115301	6.2768374 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 62.77%	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	5.284	66	2547	0.8812651 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	5.107	94	130	N.D.	
9) Benzaldehyde	5.078	105	131	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.284	41	991752	280.6902357 ppb #	67
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.601	79	195	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	5.666	108	169	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	5.878	70	224	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.872	105	192	N.D.	
24) Nitrobenzene	6.031	77	187	N.D.	
25) Isophorone	6.301	82	1360	0.1323864 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	6.472	93	67	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.872	128	274	N.D.	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.184	113	272	0.1682280 ppb #	1
36) 4-Chloro-3-methylphenol	7.248	107	61	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 12.D
Acq On : 28 May 2015 6:19 pm
Operator : 377
Sample : L767115-07 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005

Quant Time: May 29 11:23:53 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

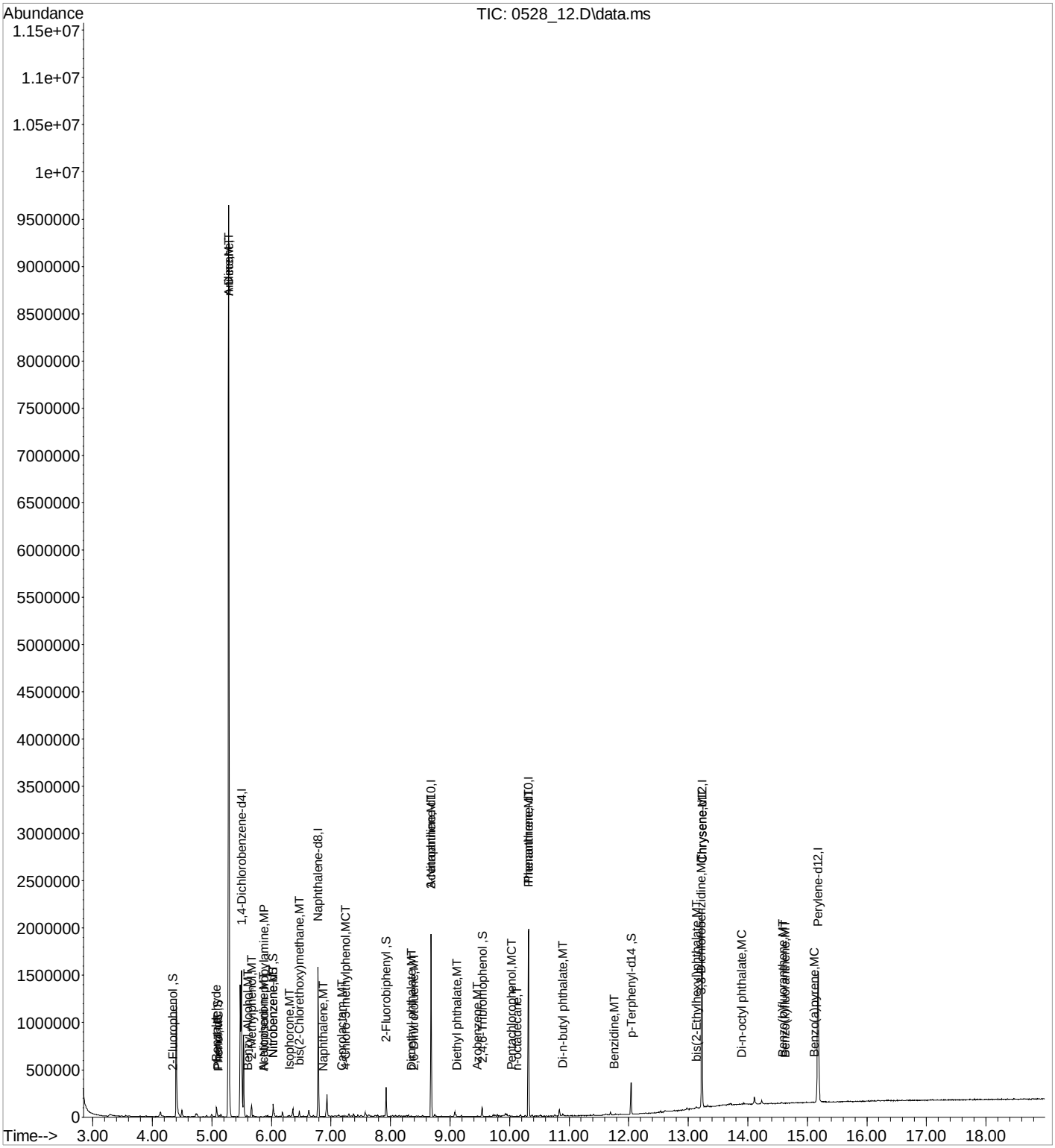
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.348	163	1336	N.D.	
50)	2,6-Dinitrotoluene	8.390	165	97	N.D.	
51)	3-Nitroaniline	8.684	138	55	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.113	149	952	N.D.	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.460	77	899	N.D.	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.125	55	526	0.2344389 ppb #	36
71)	Pentachlorophenol	10.037	266	268	N.D.	
72)	Phenanthrene	10.313	178	271	N.D.	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.895	149	10126	0.4131679 ppb	98
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.760	184	63	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	13.219	252	54	N.D.	
84)	Benzo(a)anthracene	13.230	228	1983	Below Cal #	1
85)	Chrysene	13.230	228	1983	N.D.	
86)	bis(2-Ethylhexyl)phtha...	13.136	149	5603	0.3432675 ppb	95
87)	Di-n-octyl phthalate	13.895	149	2459	N.D.	
89)	Benzo(b)fluoranthene	14.589	252	115	N.D.	
90)	Benzo(k)fluoranthene	14.624	252	111	N.D.	
91)	Benzo(a)pyrene	15.113	252	130	N.D.	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

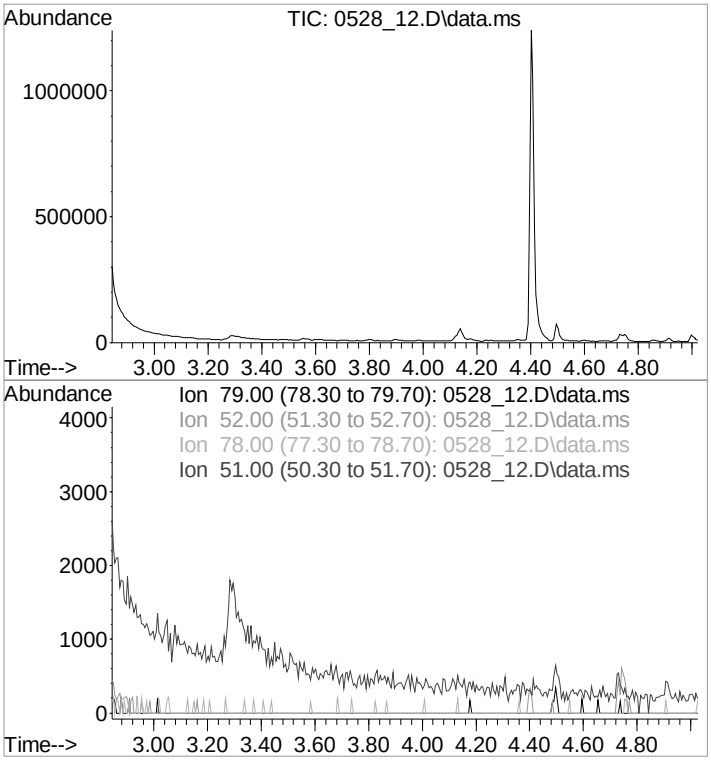
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 12.D
Acq On : 28 May 2015 6:19 pm
Operator : 377
Sample : L767115-07 1x WG791778 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005

Quant Time: May 29 11:23:53 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



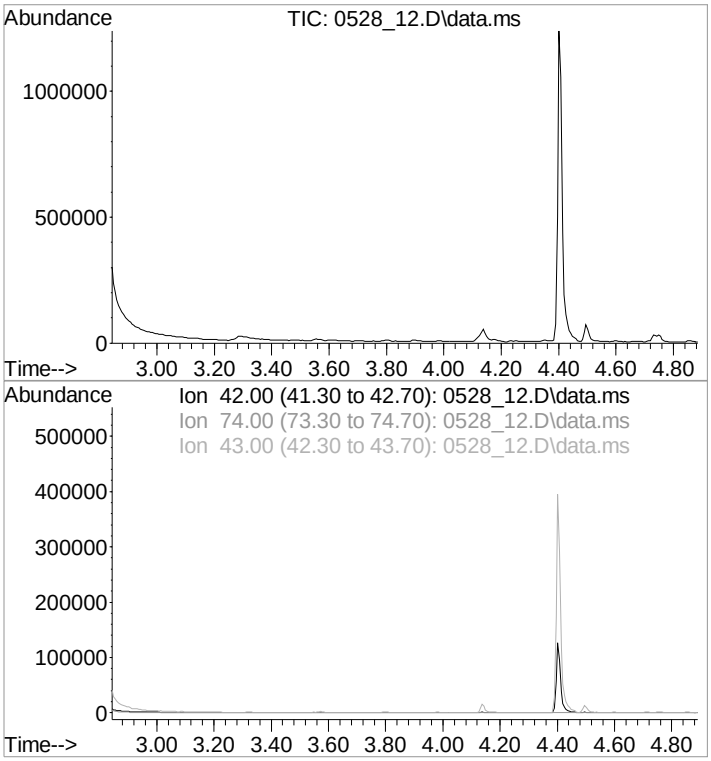


#2
Pyridine
Concen: N.D.
Expected RT: 3.42 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
52	70.5
78	11.9
51	39.1

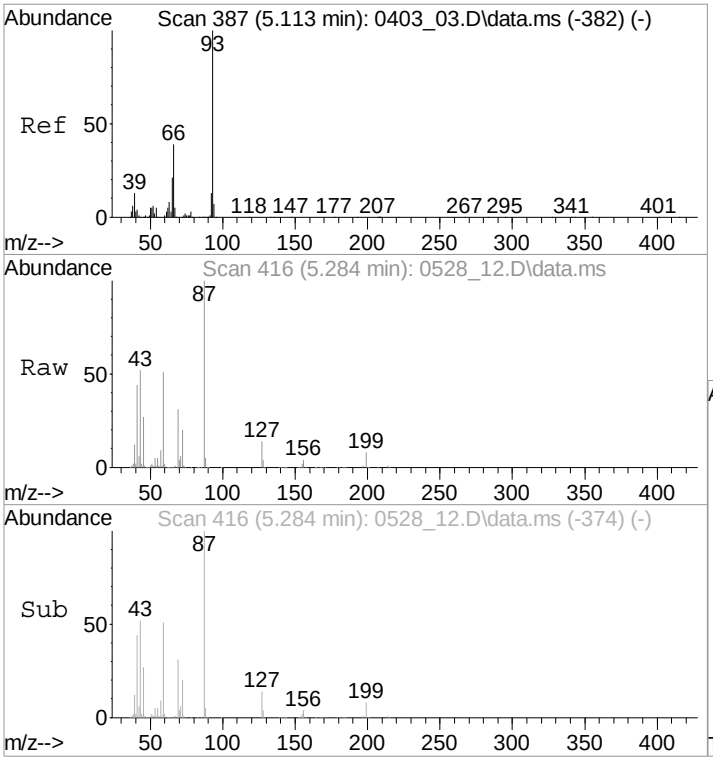


#3
N-Nitrosodimethylamine
Concen: N.D.
Expected RT: 3.39 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 42

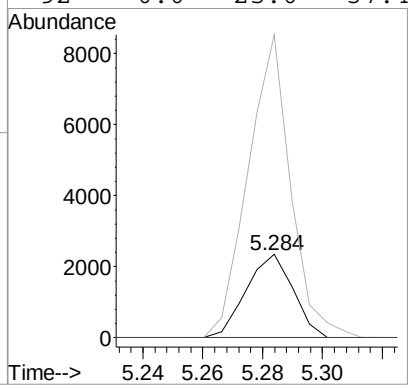
Sig	Exp Ratio
42	100
74	97.0
43	44.2

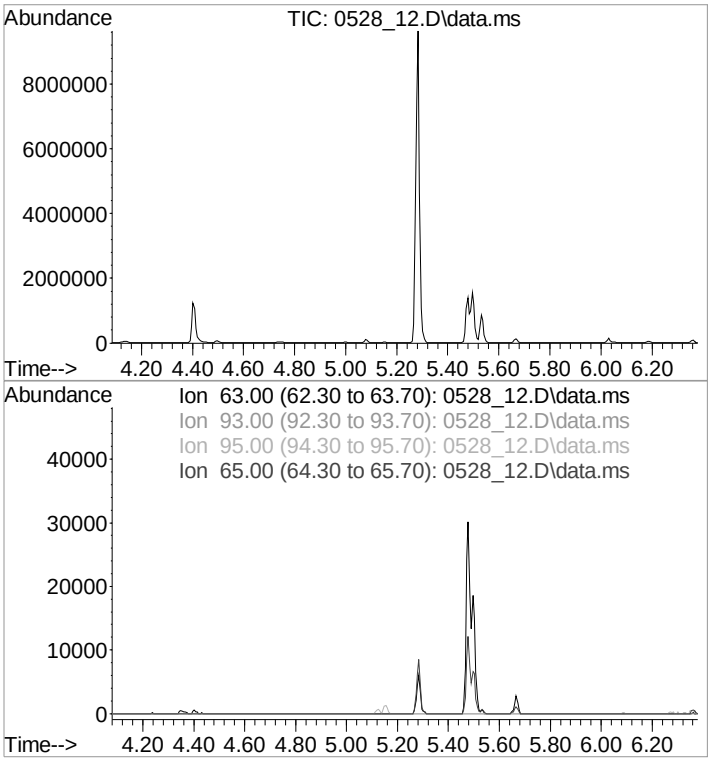


#5
Aniline
Concen: 0.8812651 ppb
RT: 5.284 min Scan# 416
Delta R.T. 0.094 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 66 Resp: 2547

Ion	Ratio	Lower	Upper
66	100		
93	0.0	203.4	305.0#
65	331.3	41.7	62.5#
92	0.0	25.0	37.4#



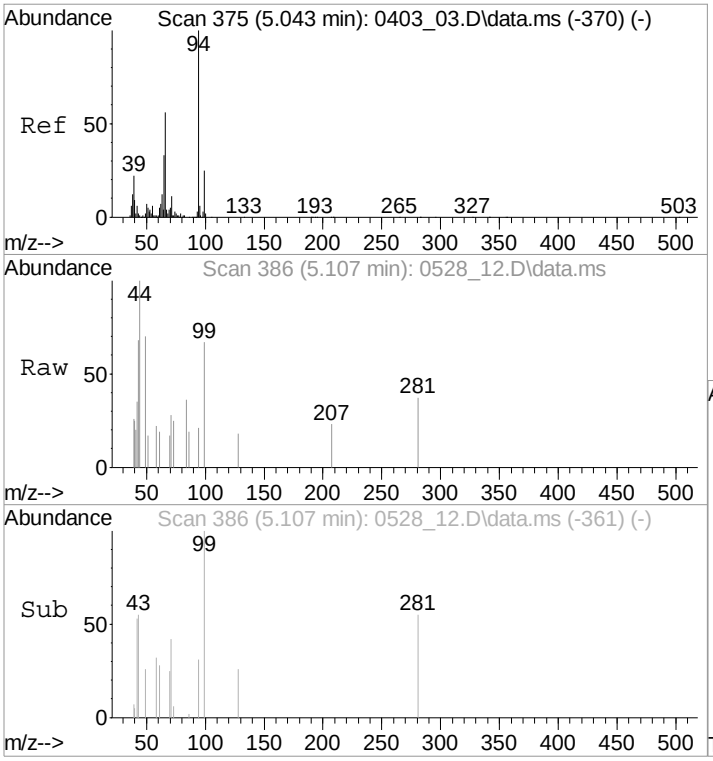


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.23 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 63

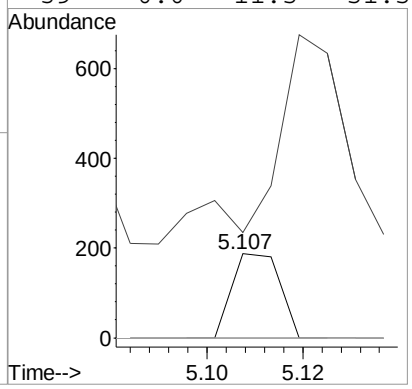
Sig	Exp Ratio
63	100
93	126.6
95	41.5
65	31.6

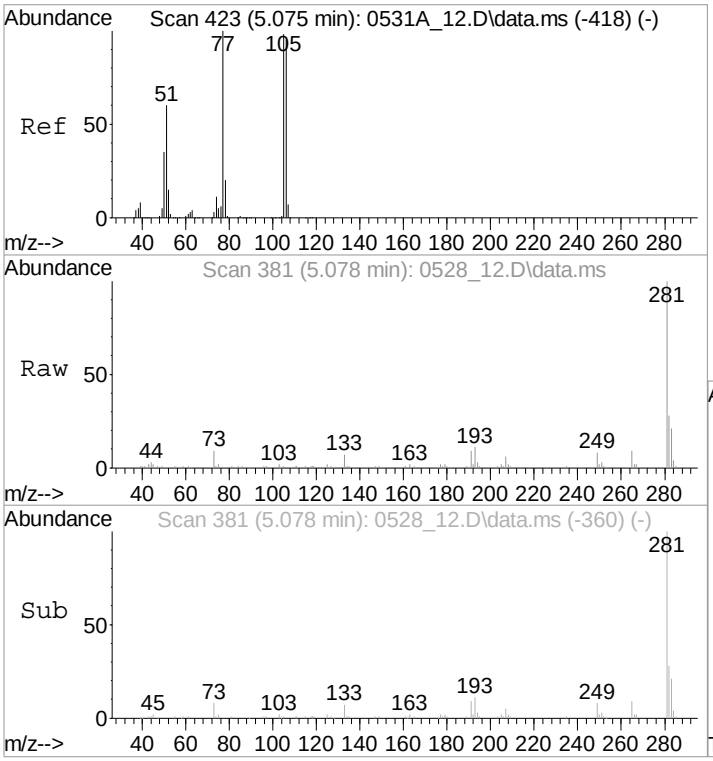


#8
Phenol
Concen: Below Cal
RT: 5.107 min Scan# 386
Delta R.T. -0.006 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 94 Resp: 130

Ion	Ratio	Lower	Upper
94	100		
66	0.0	22.8	62.8#
65	0.0	12.5	52.5#
39	0.0	11.5	51.5#

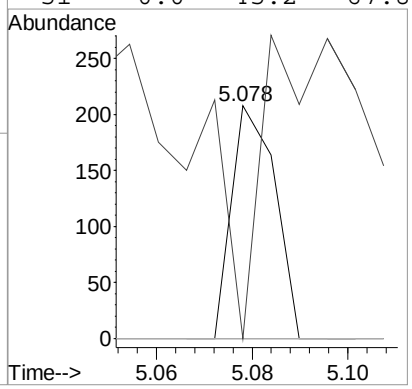


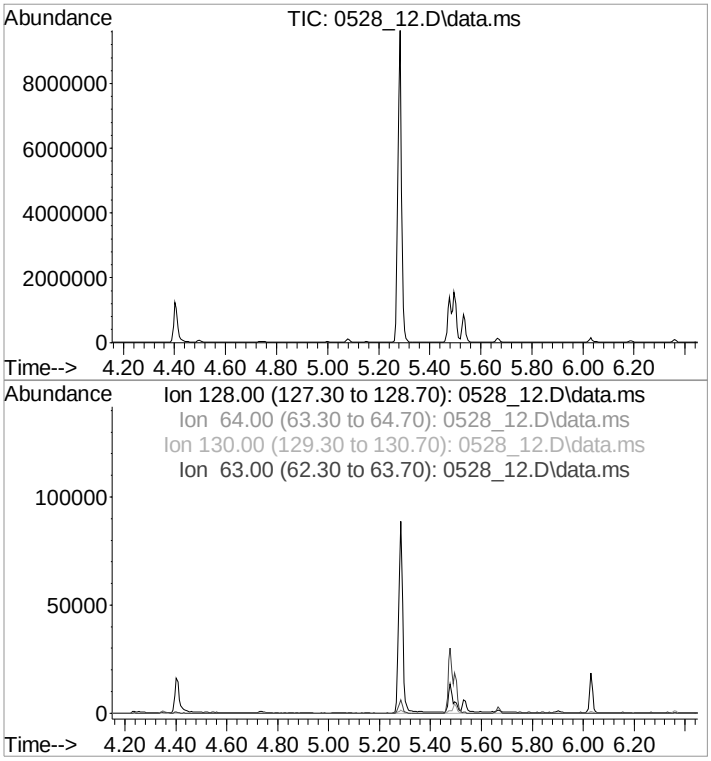


#9
Benzaldehyde
Concen: Below Cal
RT: 5.078 min Scan# 381
Delta R.T. -0.024 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:105 Resp: 131

Ion	Ratio	Lower	Upper
105	100		
106	0.0	77.6	116.4#
77	0.0	82.2	123.2#
51	0.0	45.2	67.8#



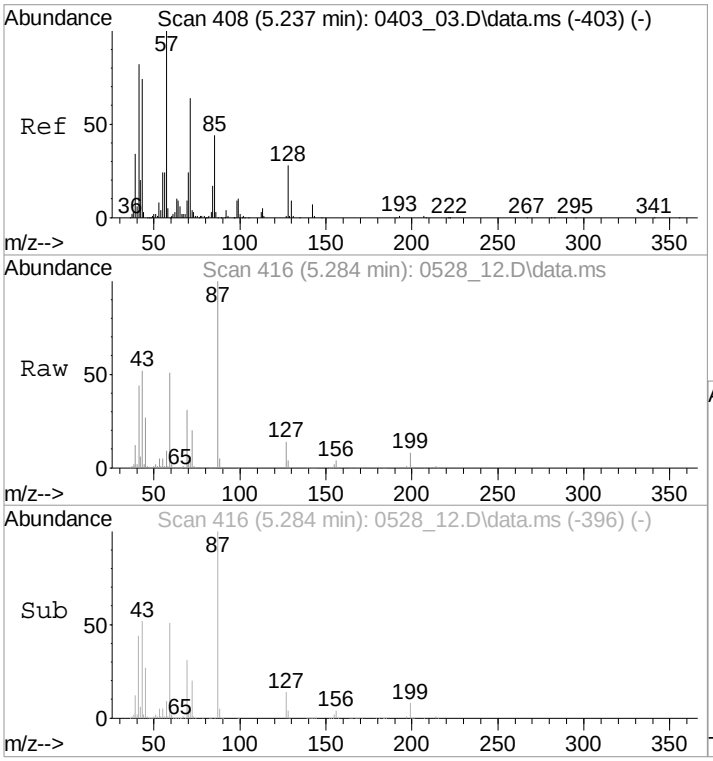


#10
2-Chlorophenol
Concen: N.D.
Expected RT: 5.30 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 128

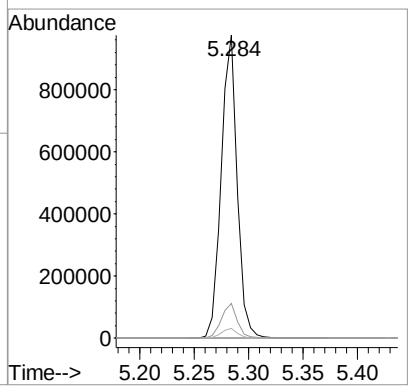
Sig	Exp Ratio
128	100
64	44.1
130	32.0
63	31.6

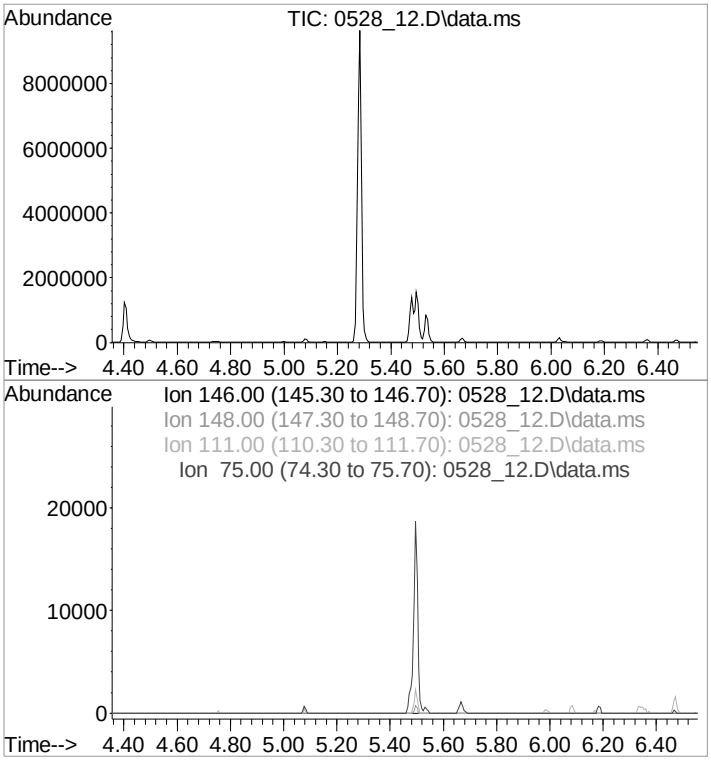


#11
n-Decane
Concen: 280.6902357 ppb
RT: 5.284 min Scan# 416
Delta R.T. -0.035 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 41 Resp: 991752

Ion	Ratio	Lower	Upper
41	100		
55	11.6	24.9	37.3#
67	3.3	2.3	3.5



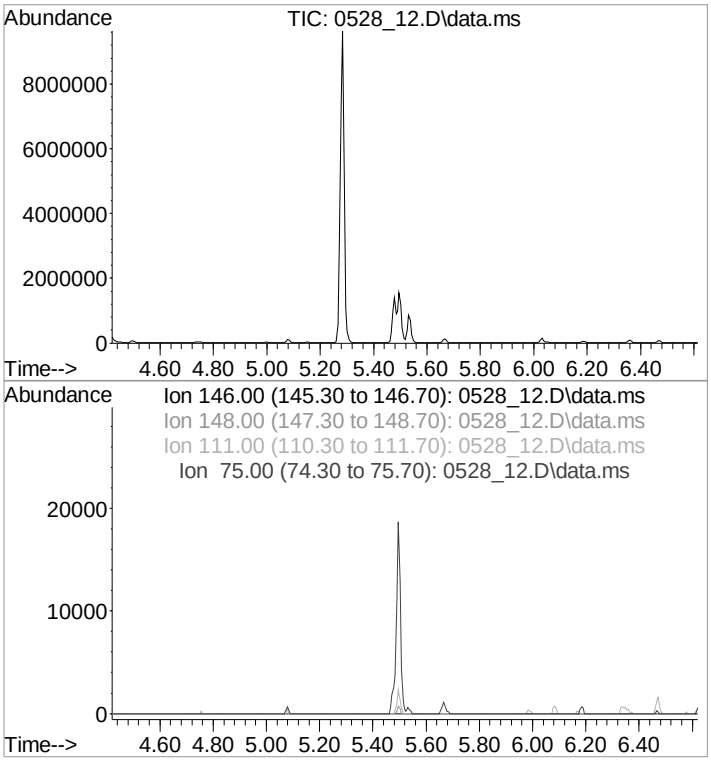


#12
1,3-Dichlorobenzene
Concen: N.D.
Expected RT: 5.45 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	65.7
111	40.3
75	32.0

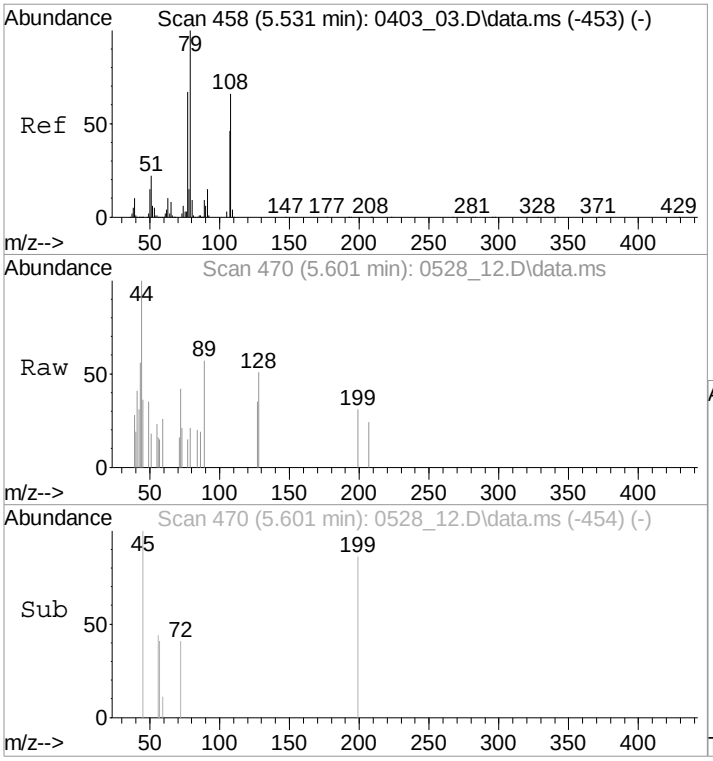


#13
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 5.52 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 146

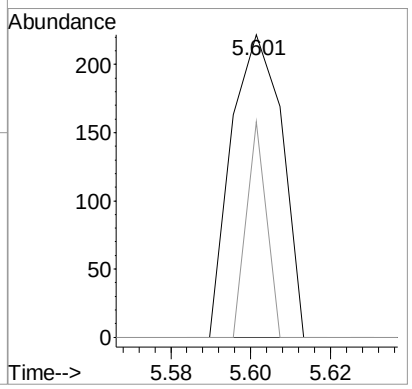
Sig	Exp Ratio
146	100
148	64.7
111	40.2
75	35.0

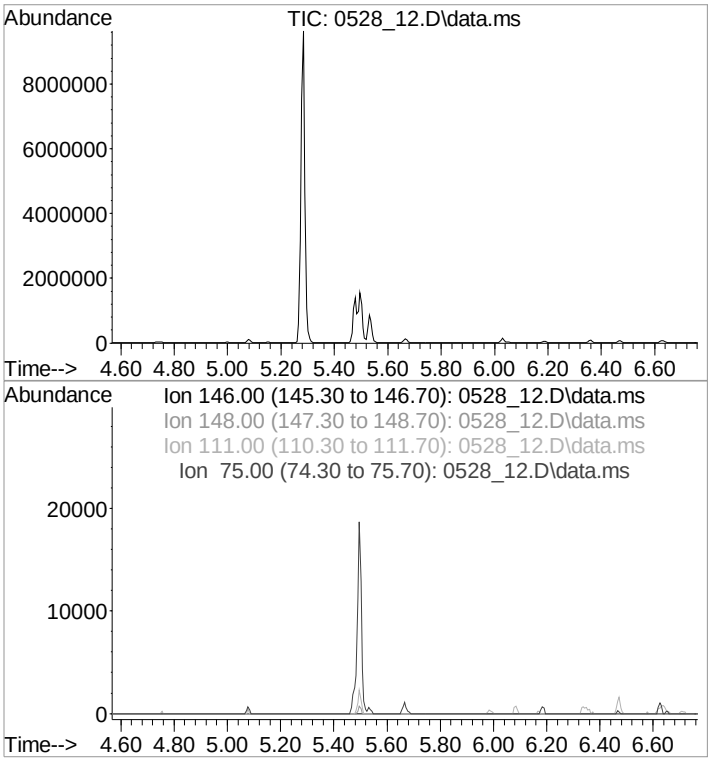


#14
Benzyl Alcohol
Concen: Below Cal
RT: 5.601 min Scan# 470
Delta R.T. -0.006 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 79 Resp: 195

Ion	Ratio	Lower	Upper
79	100		
77	0.0	53.1	79.7#



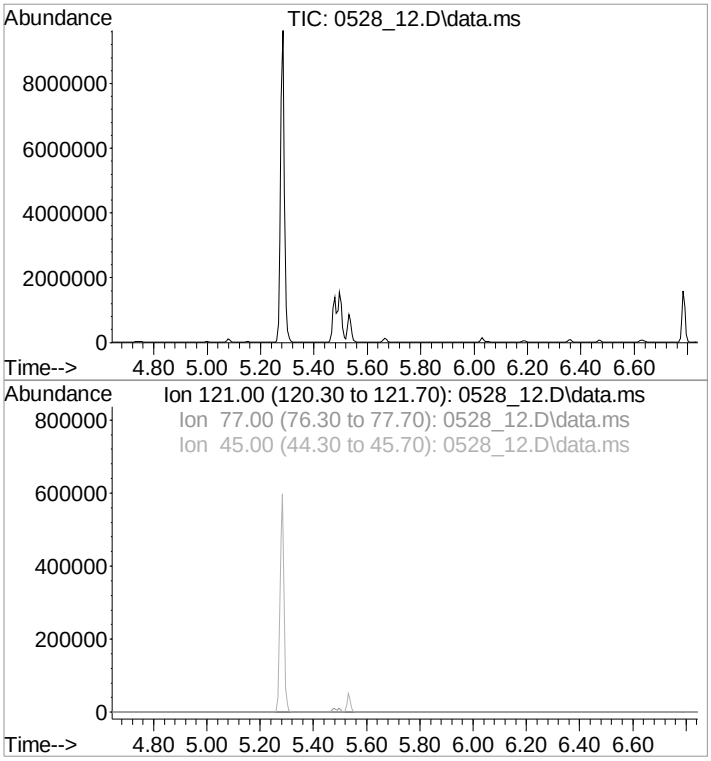


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.67 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	63.8
111	44.2
75	35.6

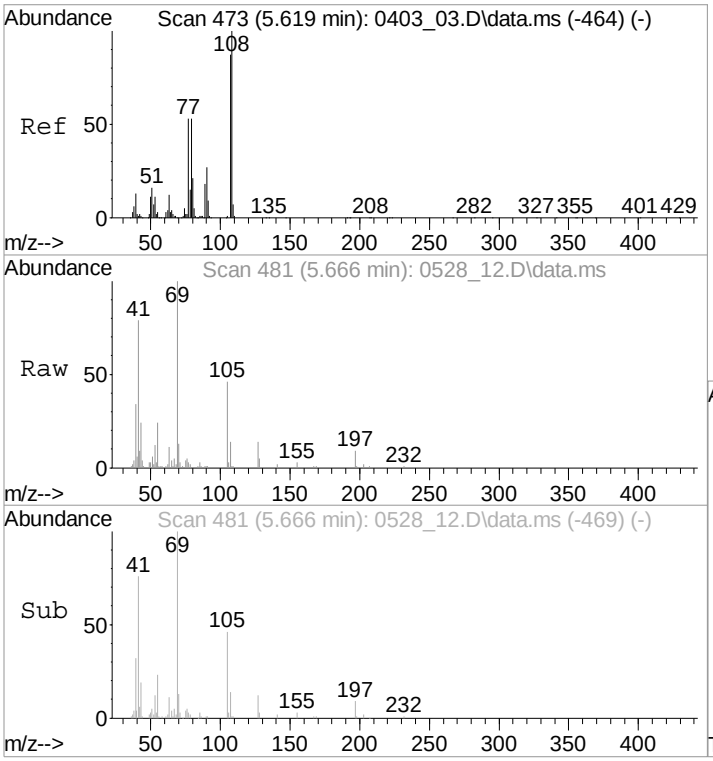


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.74 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 121

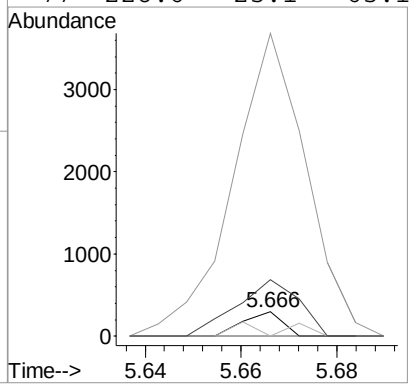
Sig	Exp Ratio
121	100
77	56.8
45	441.7

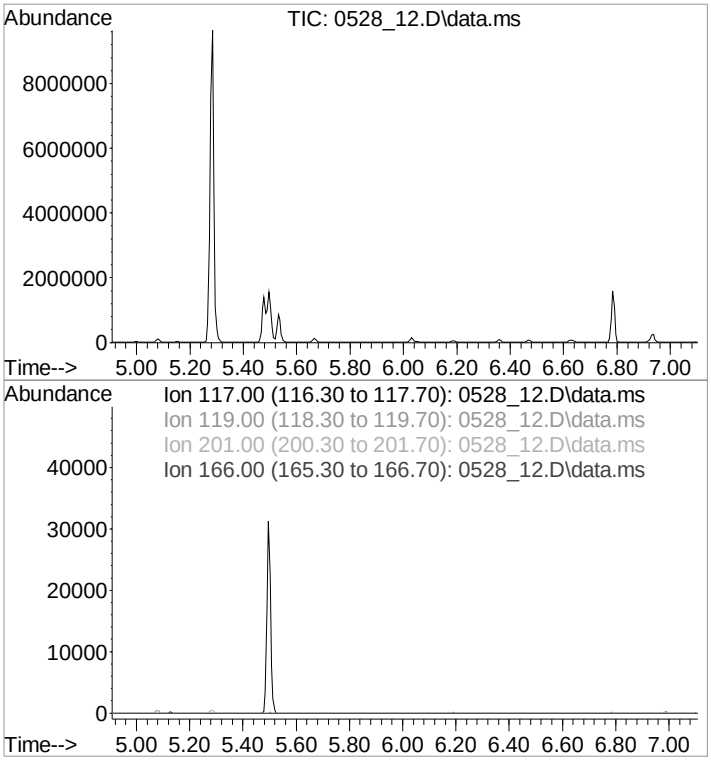


#17
2-Methylphenol
Concen: Below Cal
RT: 5.666 min Scan# 481
Delta R.T. -0.029 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:108 Resp: 169

Ion	Ratio	Lower	Upper
108	100		
107	1087.7	68.5	108.5#
79	0.0	22.5	62.5#
77	228.6	25.1	65.1#



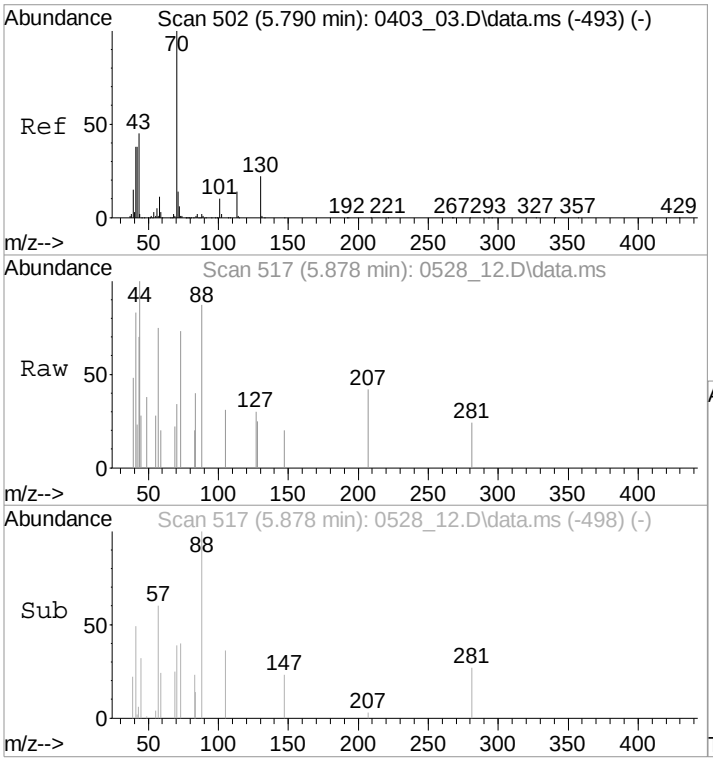


#18
Hexachloroethane
Concen: N.D.
Expected RT: 6.01 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 117

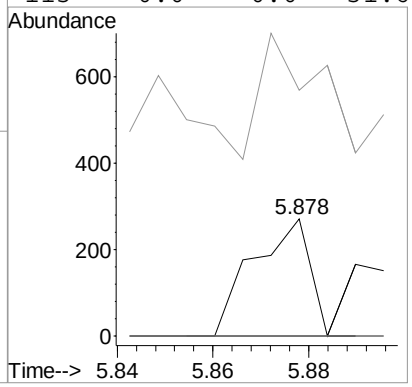
Sig	Exp Ratio
117	100
119	94.8
201	89.2
166	48.8

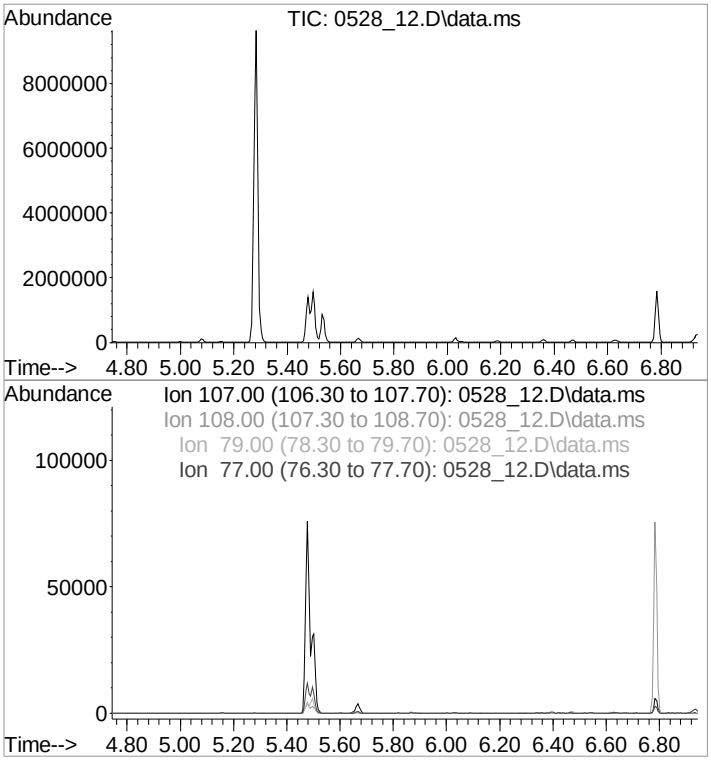


#19
N-Nitrosodi-n-propylamine
Concen: Below Cal
RT: 5.878 min Scan# 517
Delta R.T. 0.012 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 70 Resp: 224

Ion	Ratio	Lower	Upper
70	100		
43	25.1	87.2	127.2#
130	0.0	3.1	43.1#
113	0.0	0.0	31.6



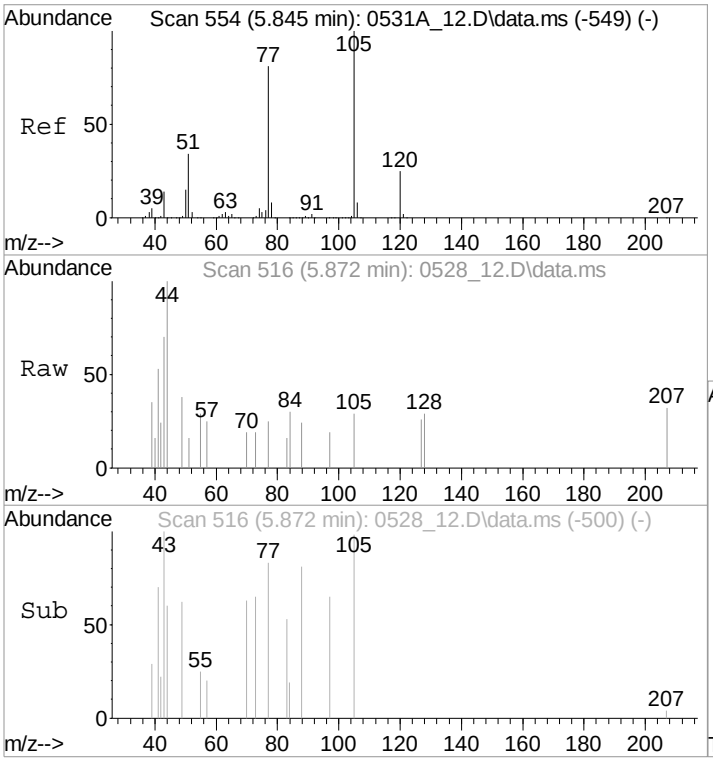


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.84 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 107

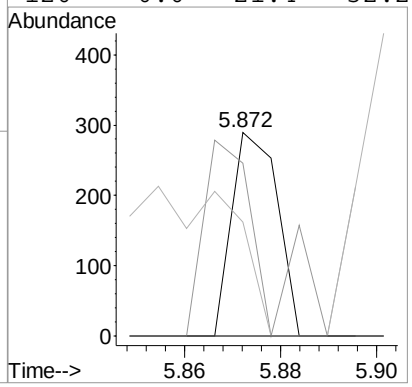
Sig	Exp Ratio
107	100
108	91.8
79	31.1
77	36.6

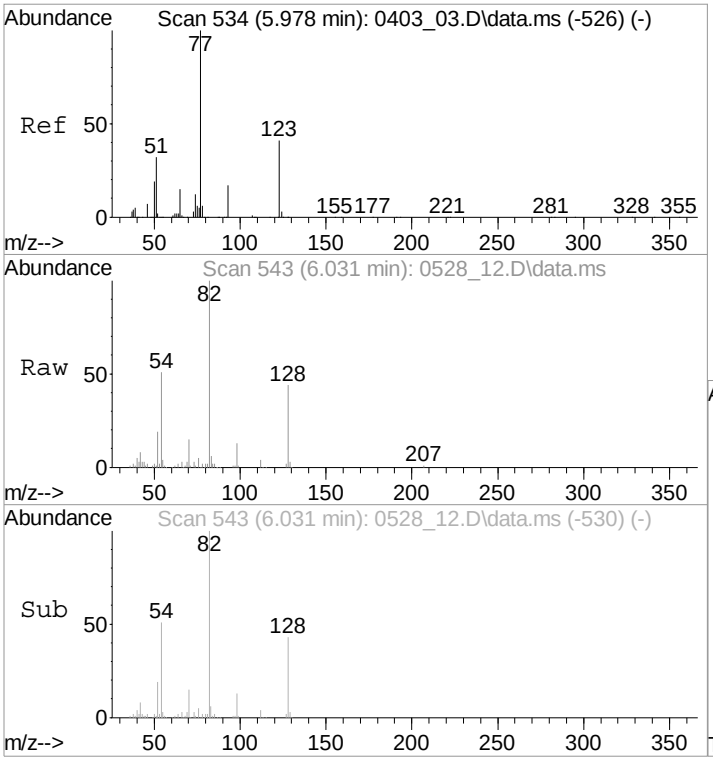


#21
Acetophenone
Concen: Below Cal
RT: 5.872 min Scan# 516
Delta R.T. -0.006 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:105 Resp: 192

Ion	Ratio	Lower	Upper
105	100		
77	125.5	65.1	97.7#
51	200.0	25.2	37.8#
120	0.0	21.4	32.2#

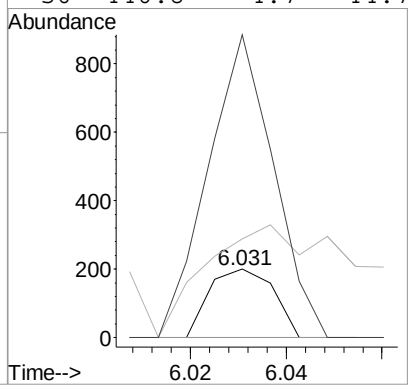


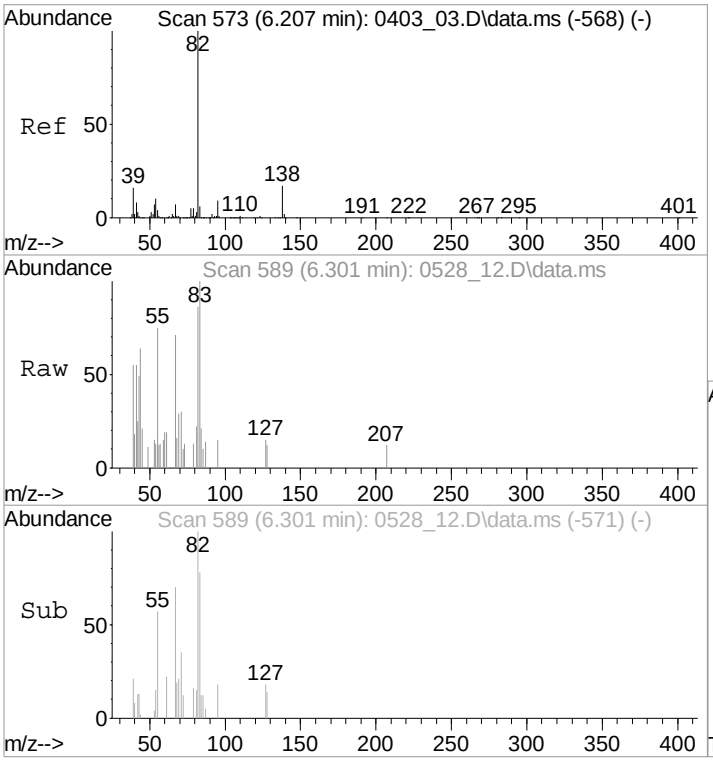


#24
Nitrobenzene
Concen: Below Cal
RT: 6.031 min Scan# 543
Delta R.T. -0.023 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 77 Resp: 187

Ion	Ratio	Lower	Upper
77	100		
123	0.0	22.1	62.1#
51	63.7	37.5	77.5
50	440.8	4.7	44.7#

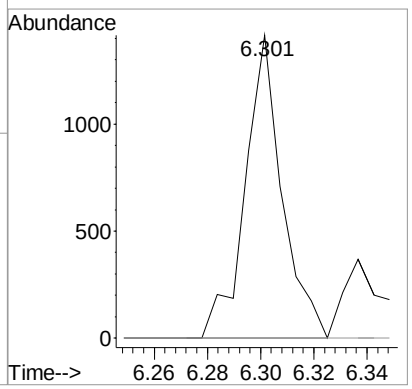


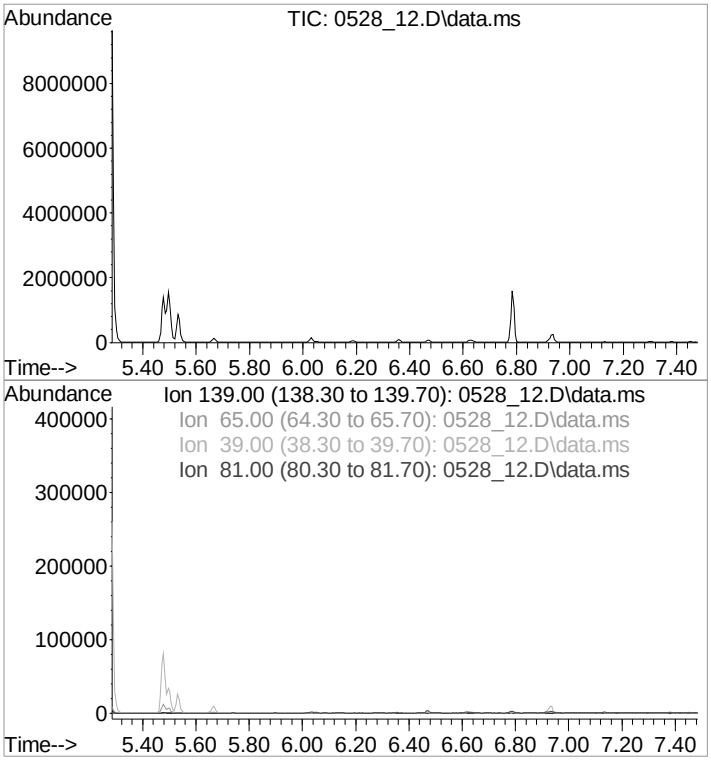


#25
Isophorone
Concen: 0.1323864 ppb
RT: 6.301 min Scan# 589
Delta R.T. 0.006 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 82 Resp: 1360

Ion	Ratio	Lower	Upper
82	100		
138	0.0	0.0	38.9



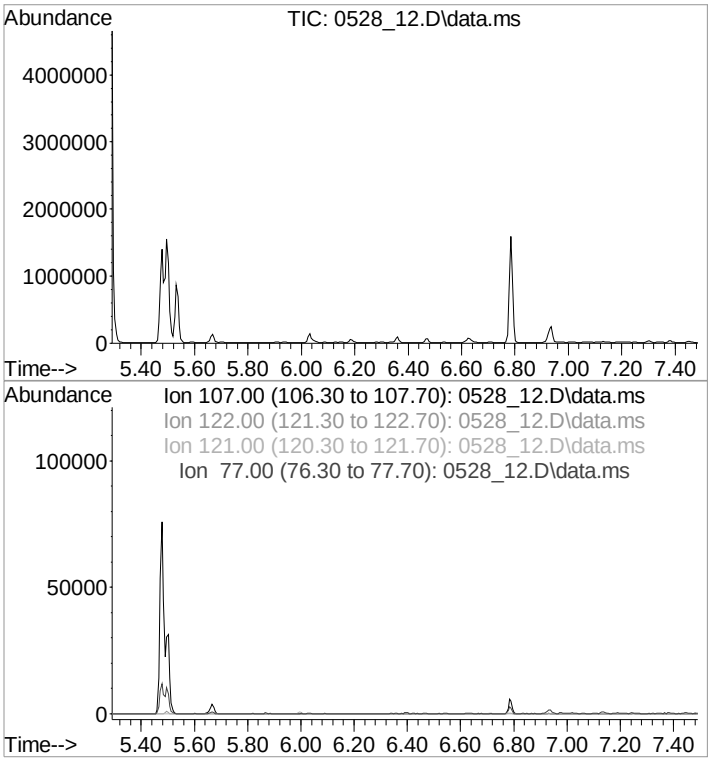


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.38 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	56.9
39	63.3
81	39.1

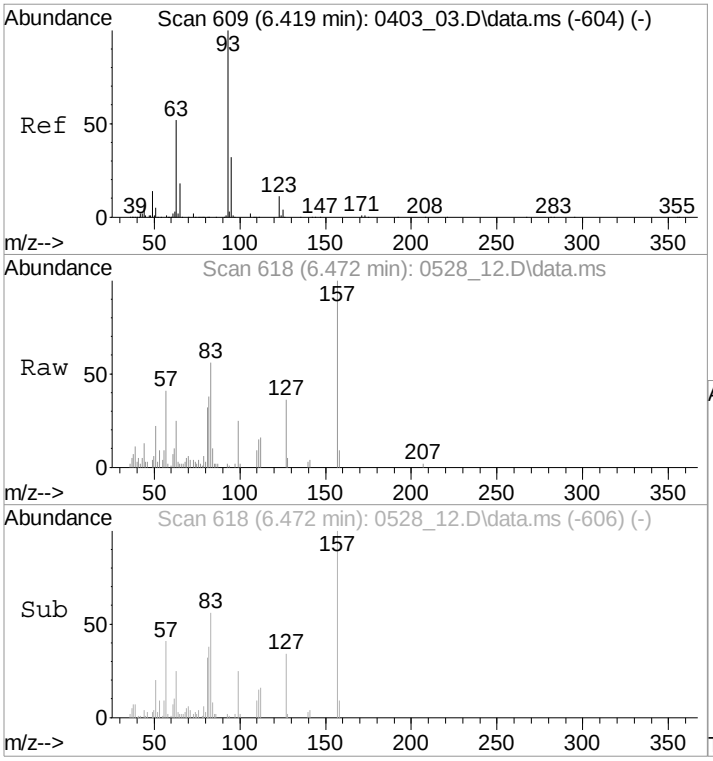


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.39 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 107

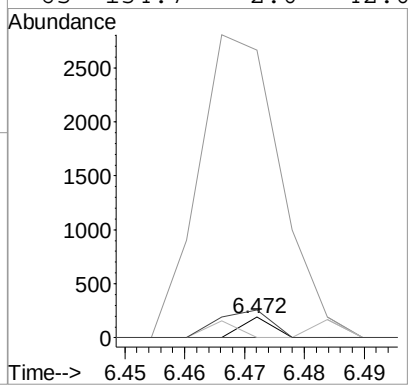
Sig	Exp Ratio
107	100
122	85.2
121	48.9
77	33.4

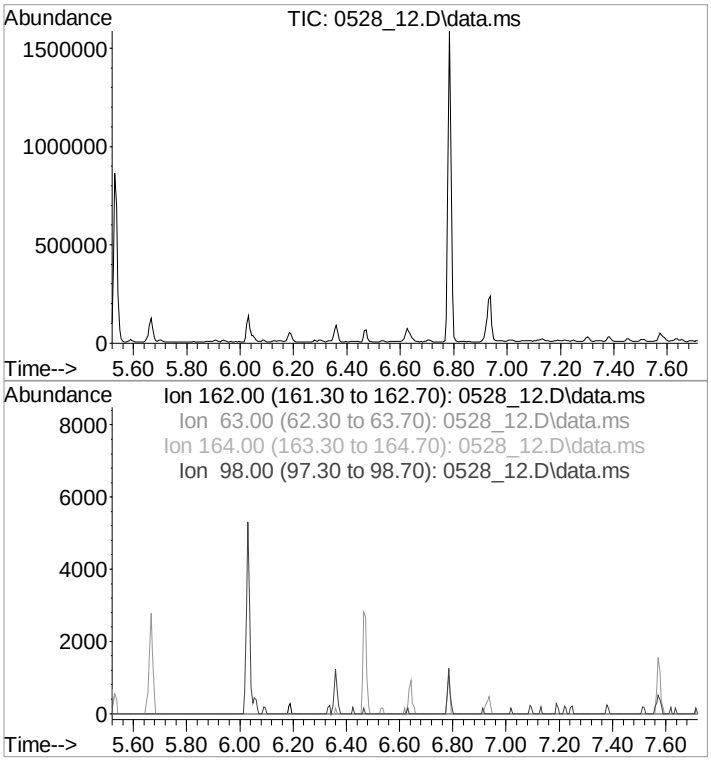


#28
bis(2-Chlorethoxy)methane
Concen: Below Cal
RT: 6.472 min Scan# 618
Delta R.T. -0.029 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 93 Resp: 67

Ion	Ratio	Lower	Upper
93	100		
63	1302.6	49.8	89.8#
95	0.0	11.5	51.5#
65	134.7	2.0	42.0#



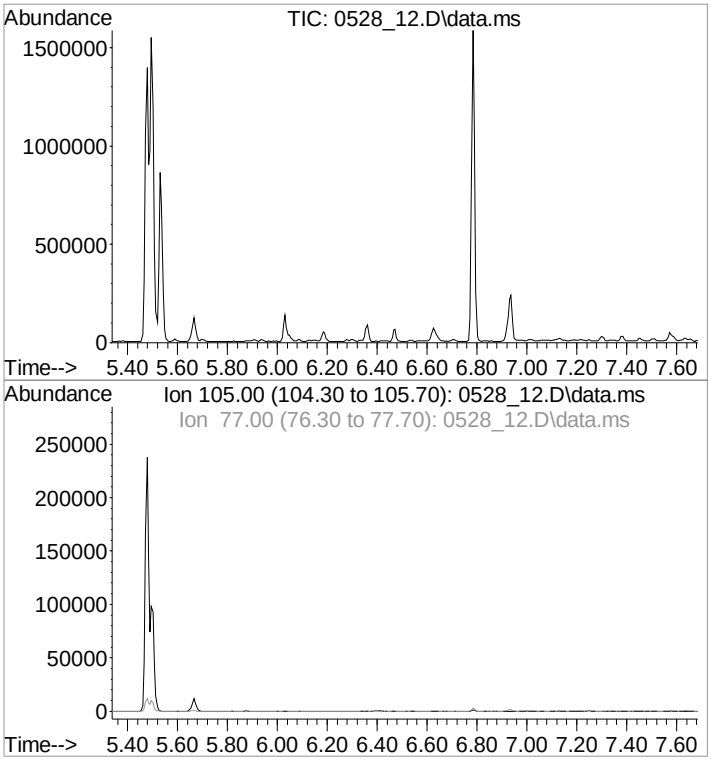


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.62 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	61.6
164	63.1
98	36.0

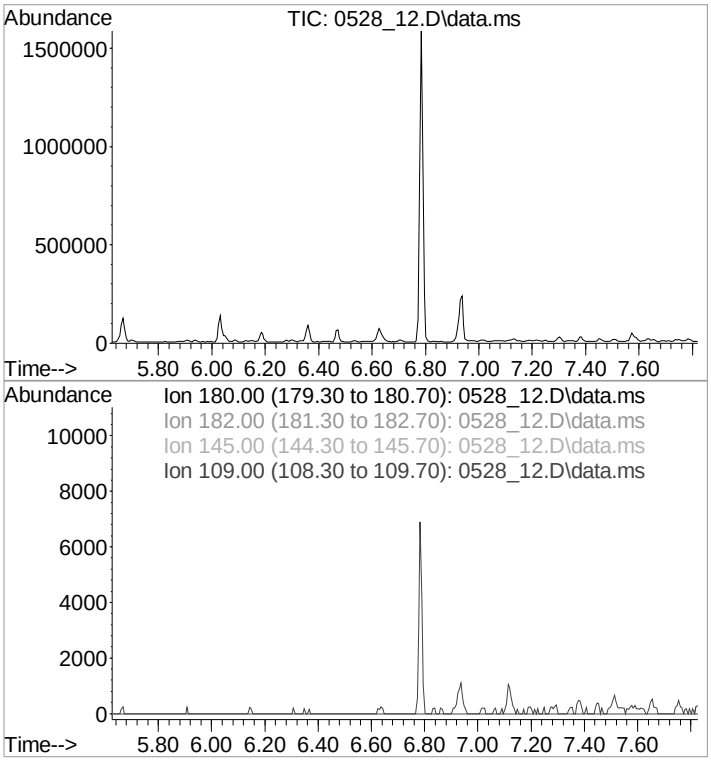


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.44 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	49.3

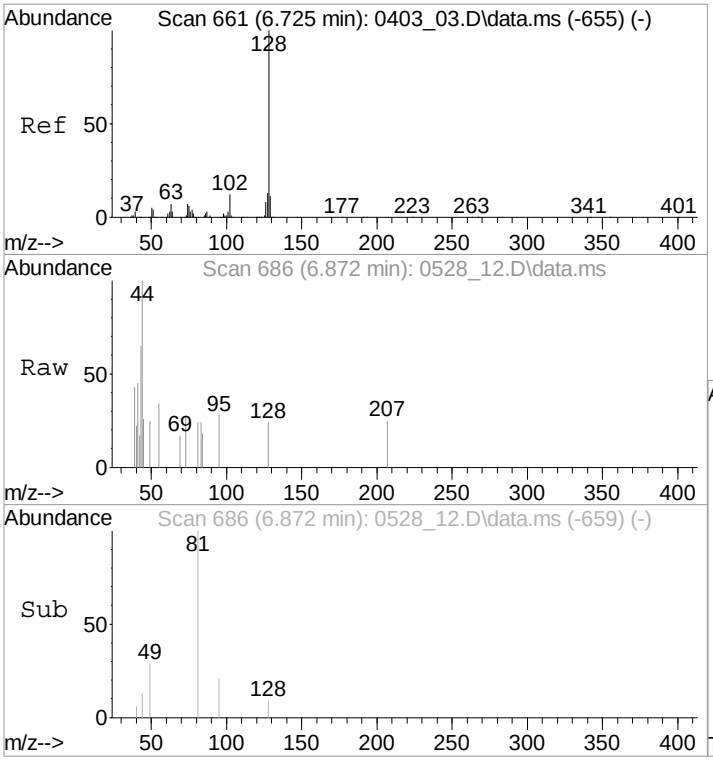


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.72 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 180

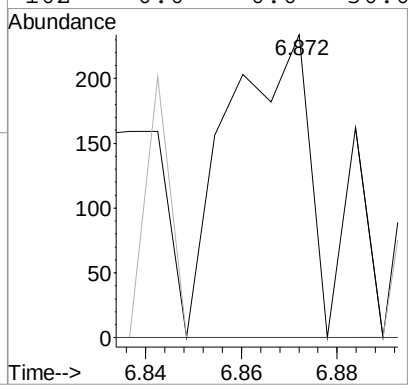
Sig	Exp Ratio
180	100
182	96.1
145	27.9
109	23.2

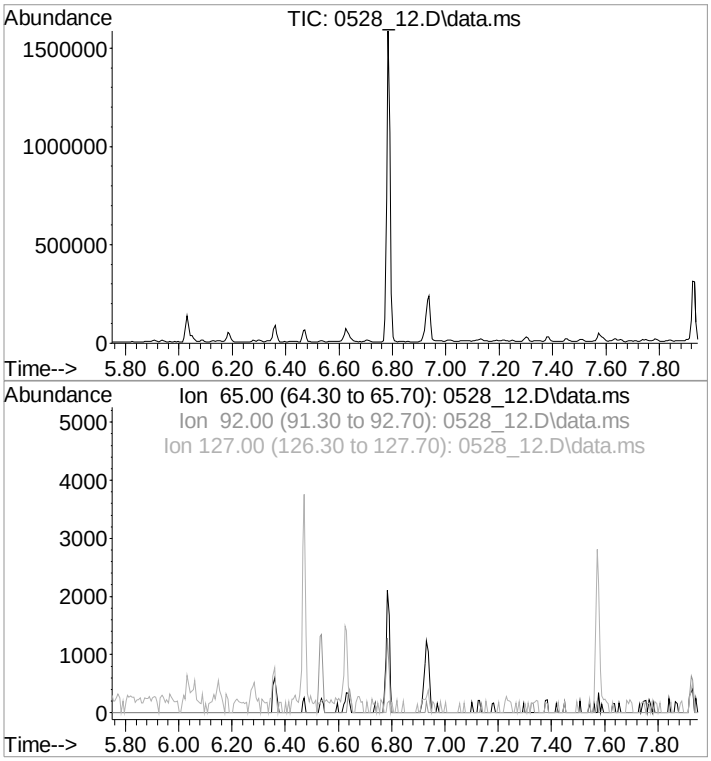


#32
Naphthalene
Concen: Below Cal
RT: 6.872 min Scan# 686
Delta R.T. 0.059 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:128 Resp: 274

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	31.0
127	0.0	0.0	33.1
102	0.0	0.0	30.0



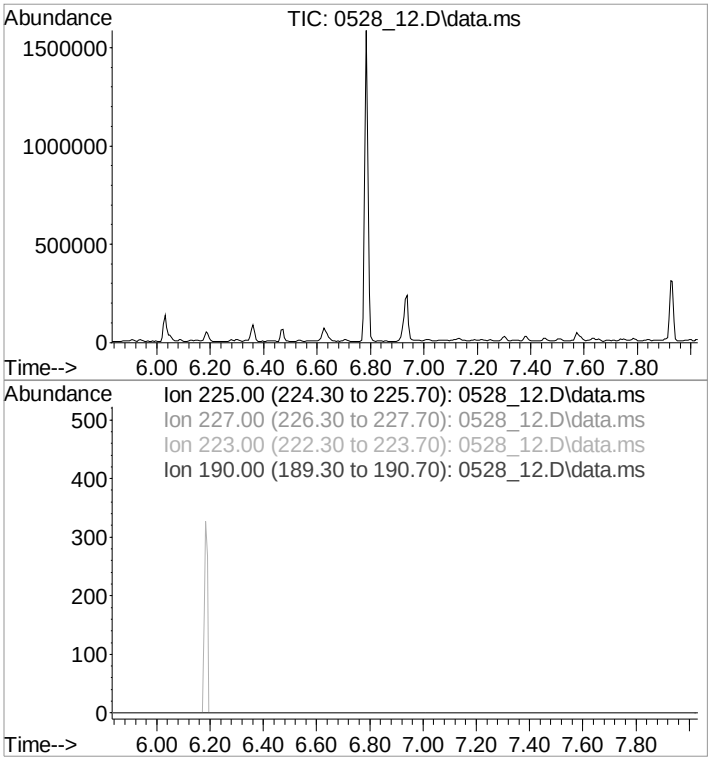


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.85 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	57.0
127	331.9

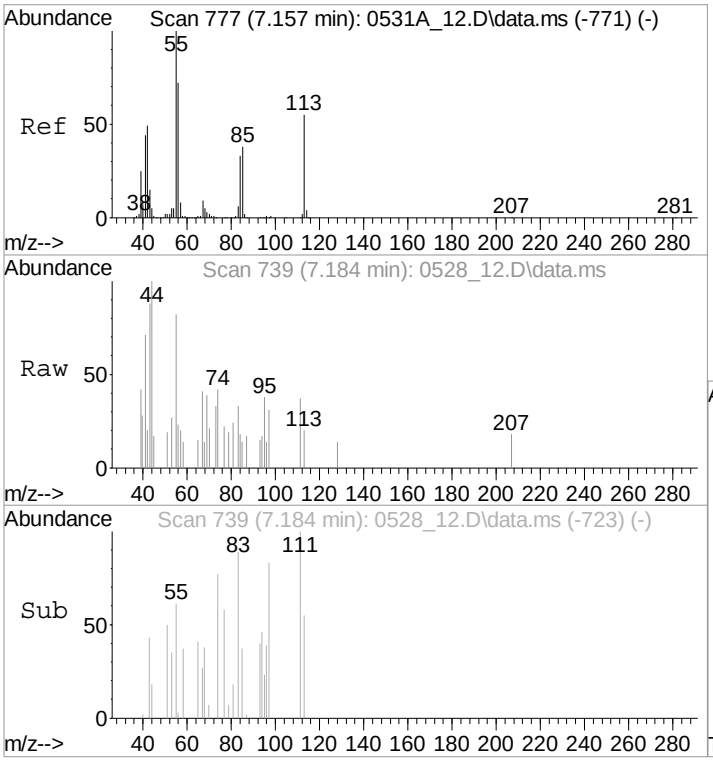


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.93 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 225

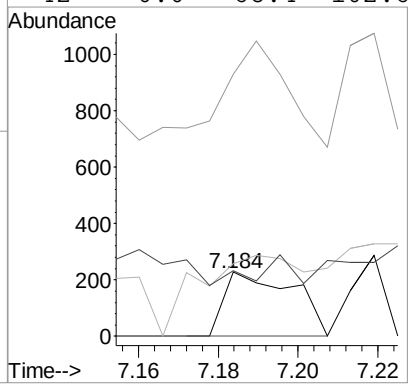
Sig	Exp Ratio
225	100
227	62.4
223	64.0
190	46.9

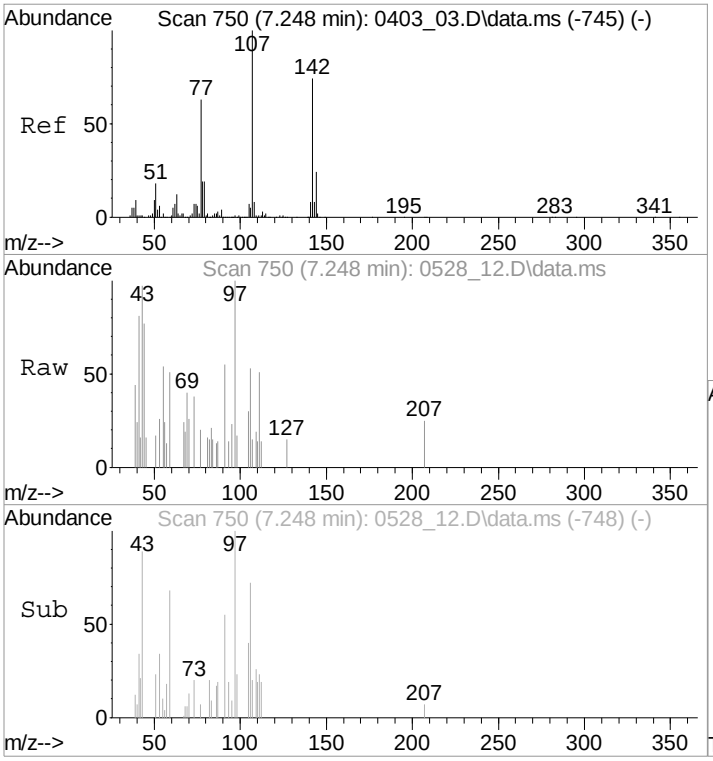


#35
Caprolactam
Concen: 0.1682280 ppb
RT: 7.184 min Scan# 739
Delta R.T. -0.006 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:113 Resp: 272

Ion	Ratio	Lower	Upper
113	100		
55	0.0	111.1	166.7#
56	0.0	84.4	126.6#
42	0.0	68.4	102.6#

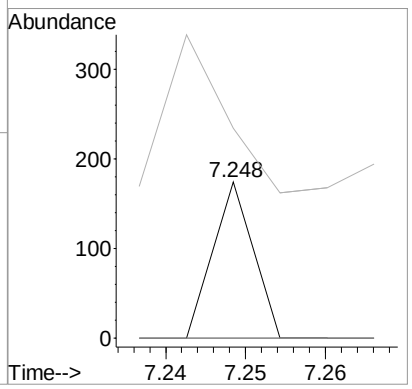


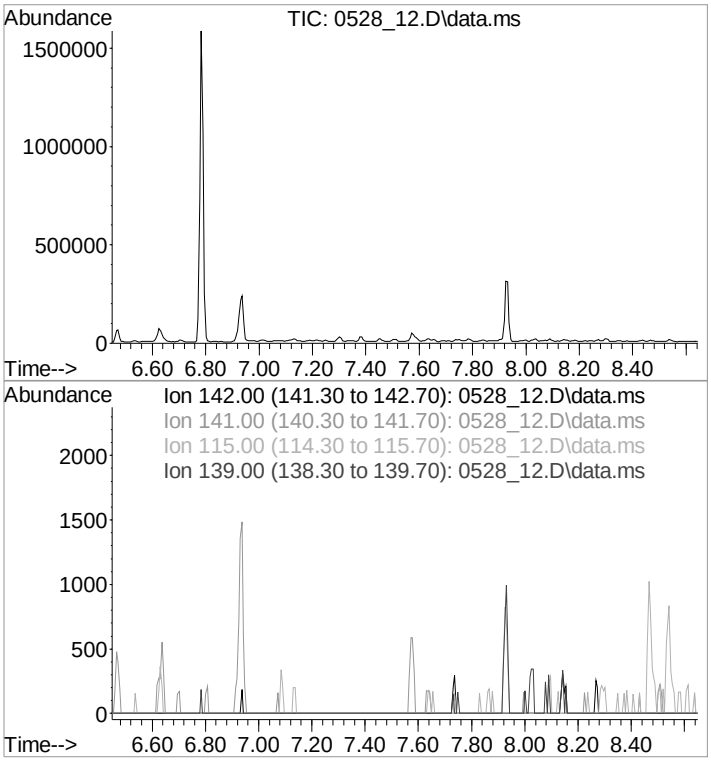


#36
4-Chloro-3-methylphenol
Concen: Below Cal
RT: 7.248 min Scan# 750
Delta R.T. -0.088 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:107 Resp: 61

Ion	Ratio	Lower	Upper
107	100		
142	0.0	64.8	104.8#
77	37.9	35.6	75.6



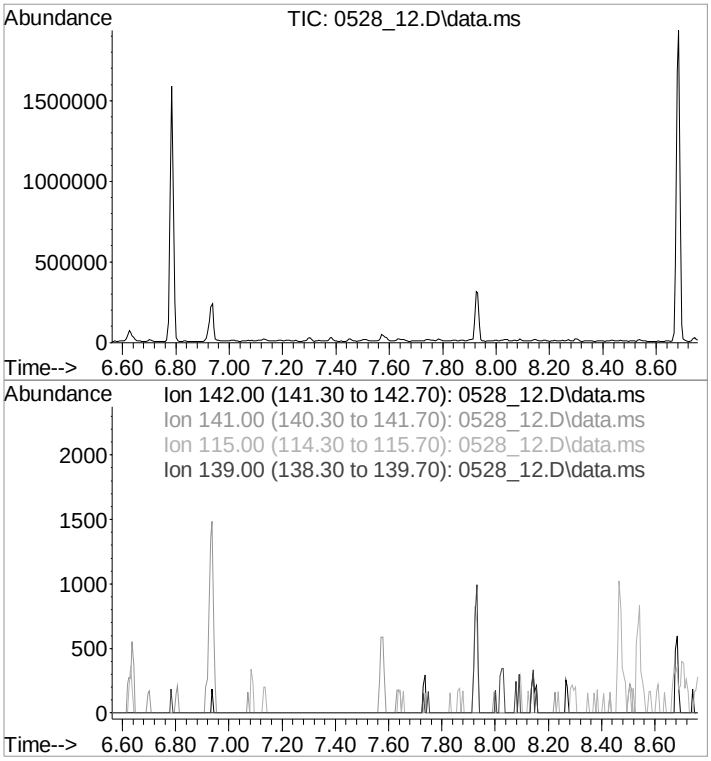


#37
2-Methylnaphthalene
Concen: N.D.
Expected RT: 7.55 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	86.9
115	36.9
139	11.0

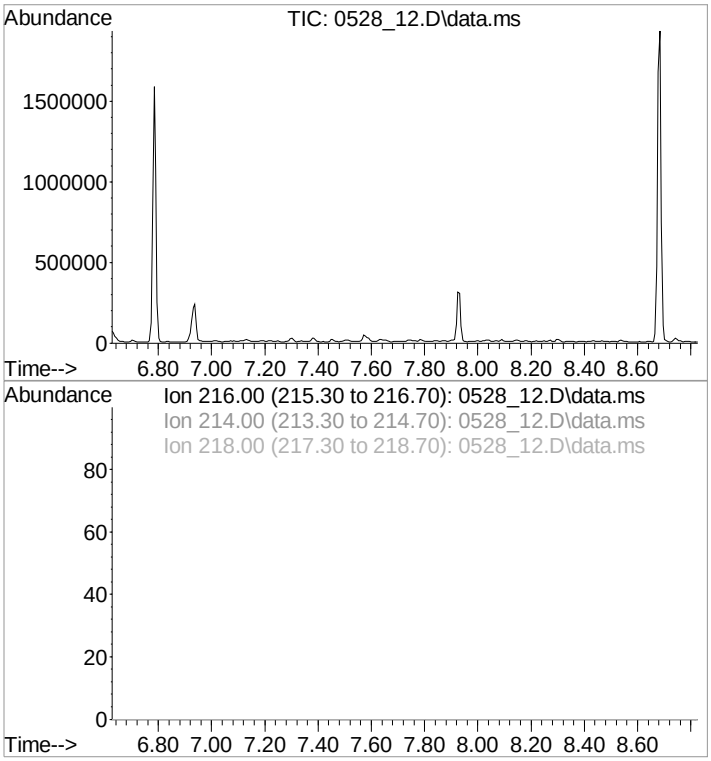


#38
1-Methylnaphthalene
Concen: N.D.
Expected RT: 7.66 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	89.3
115	38.9
139	11.7

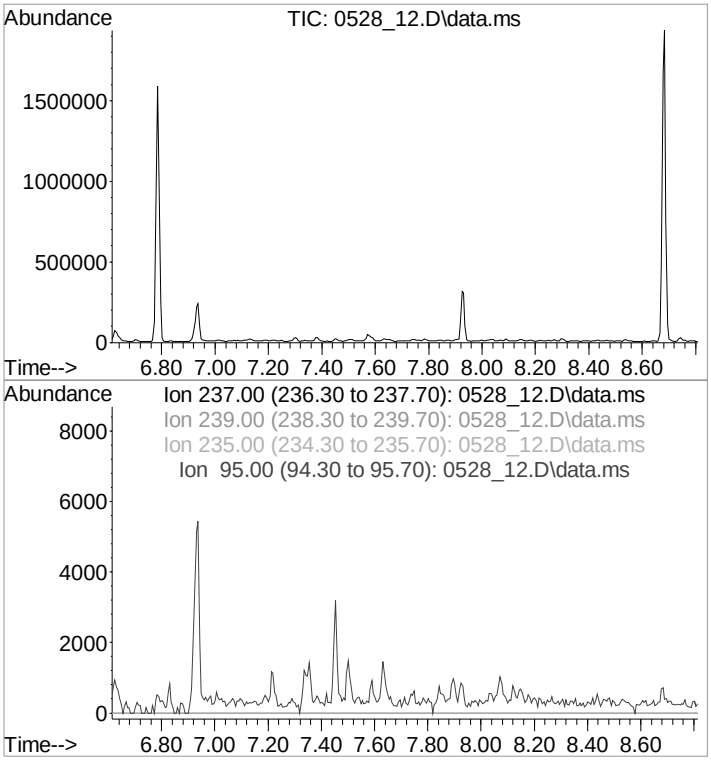


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	77.5
218	47.5

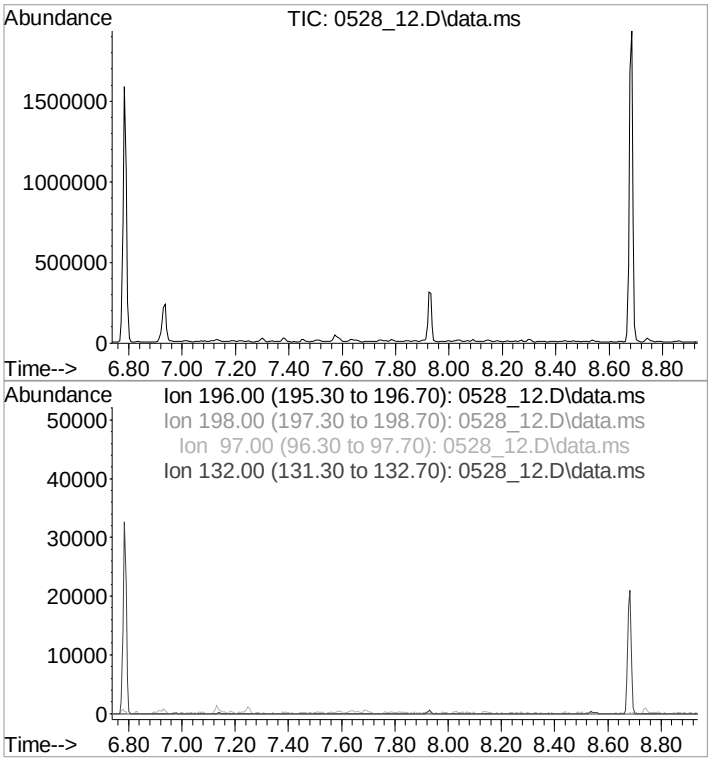


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.71 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	64.6
235	63.5
95	27.2

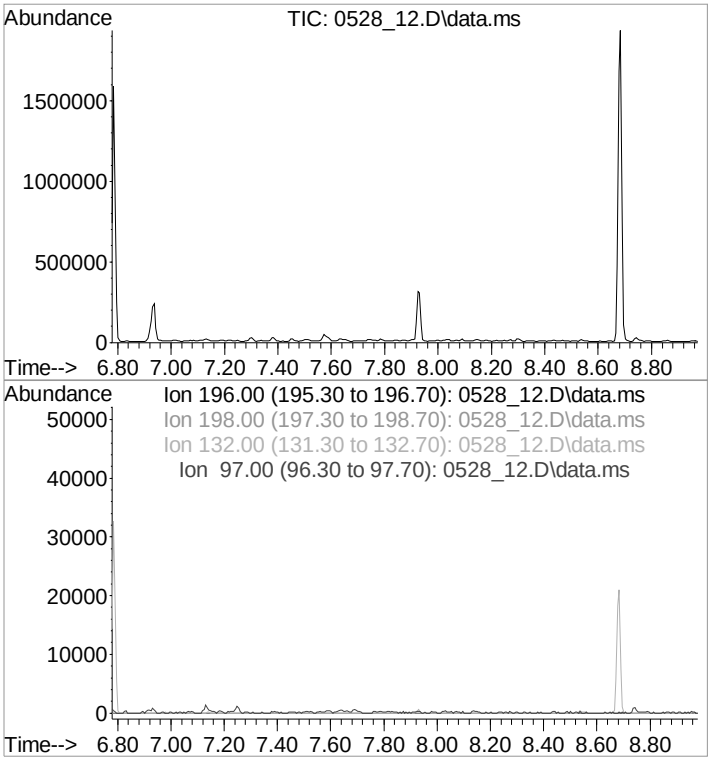


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.84 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.1
97	62.8
132	43.4

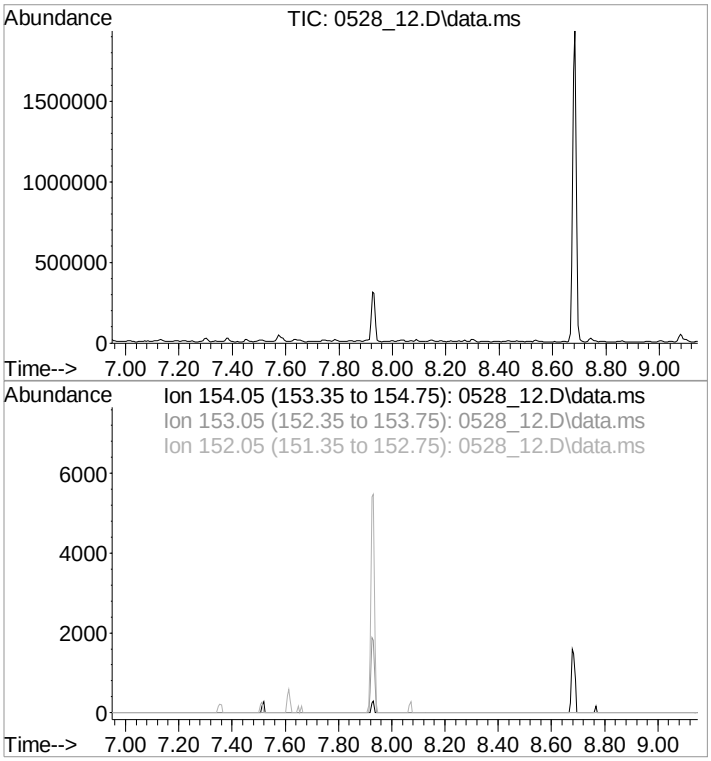


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.88 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.0
132	24.9
97	46.1

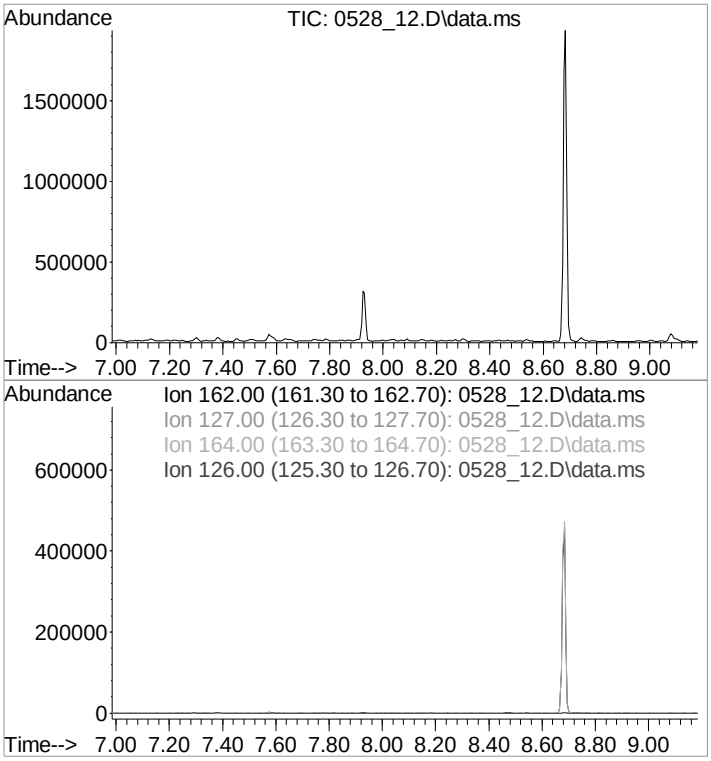


#45
Biphenyl
Concen: N.D.
Expected RT: 8.05 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 154

Sig	Exp Ratio
154	100
153	39.5
152	27.4

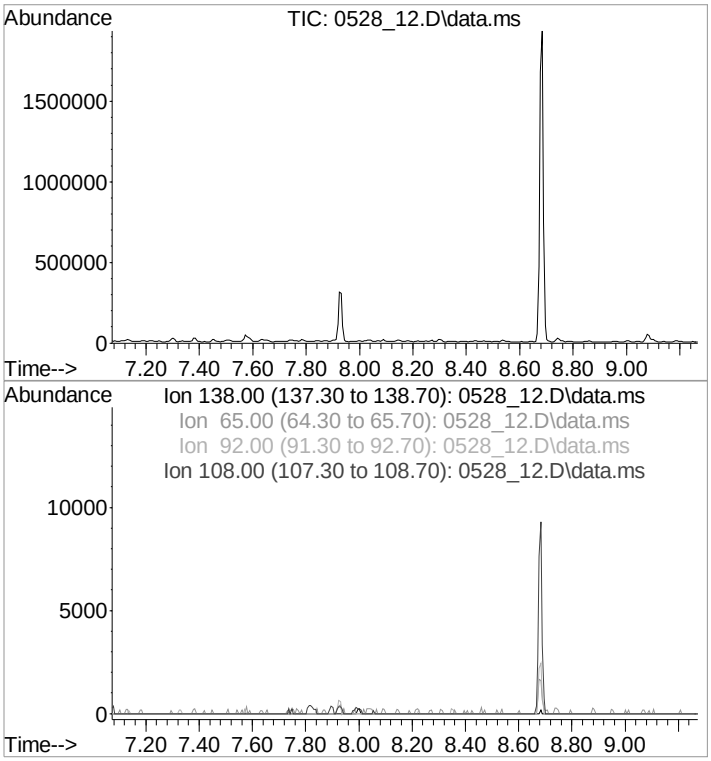


#46
2-Chloronaphthalene
Concen: N.D.
Expected RT: 8.08 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
127	36.9
164	32.9
126	19.2

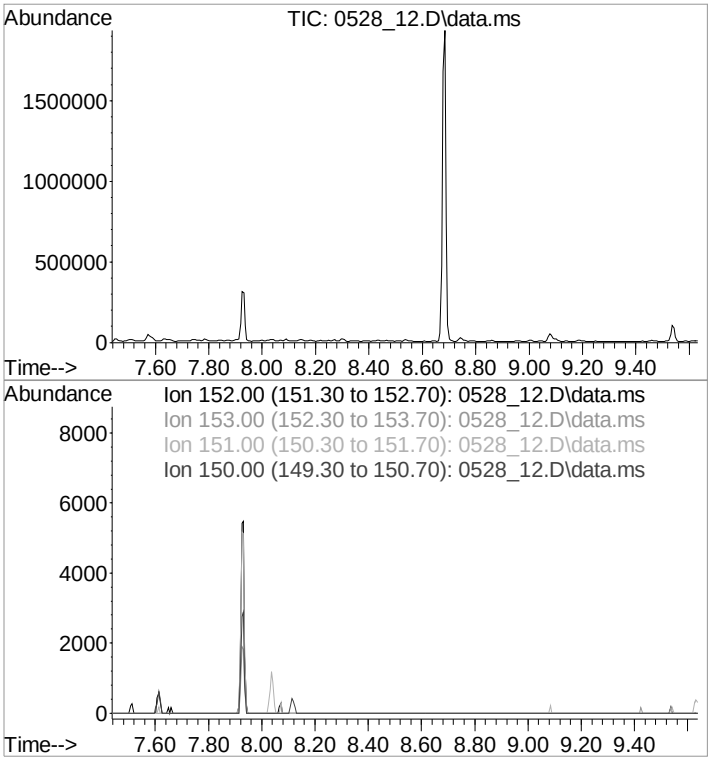


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.17 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	93.1
92	63.4
108	19.4

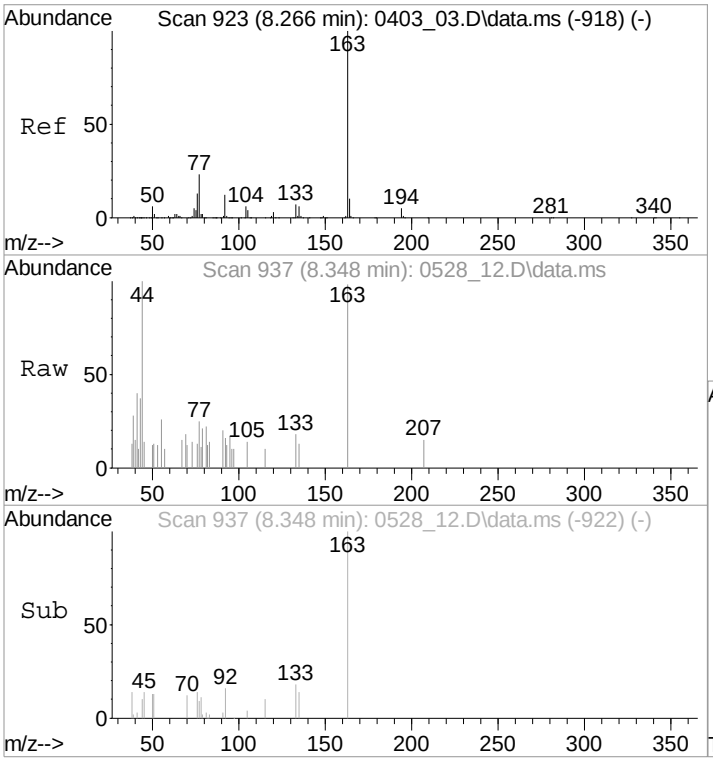


#48
Acenaphthylene
Concen: N.D.
Expected RT: 8.54 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 152

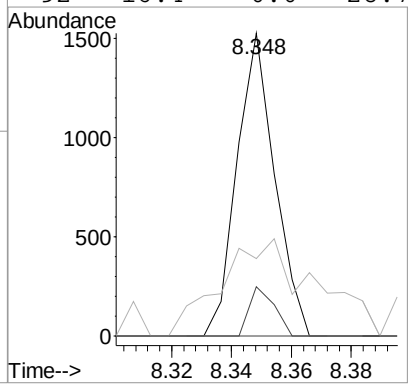
Sig	Exp Ratio
152	100
153	13.0
151	20.3
150	14.8

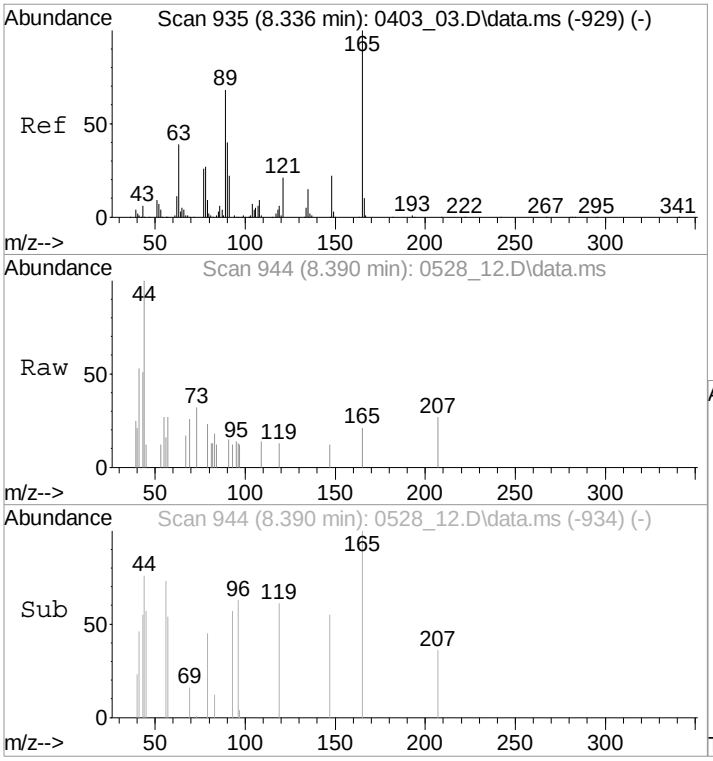


#49
Dimethyl phthalate
Concen: Below Cal
RT: 8.348 min Scan# 937
Delta R.T. -0.012 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:163 Resp: 1336

Ion	Ratio	Lower	Upper
163	100		
164	0.0	0.0	29.9
77	15.5	0.8	40.8
92	16.4	0.0	28.7

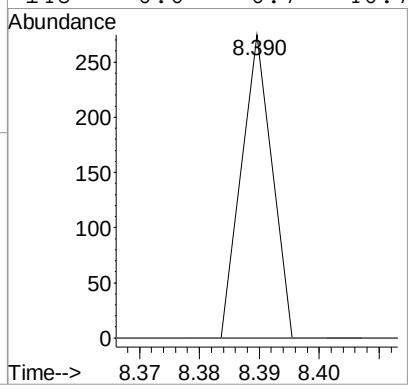


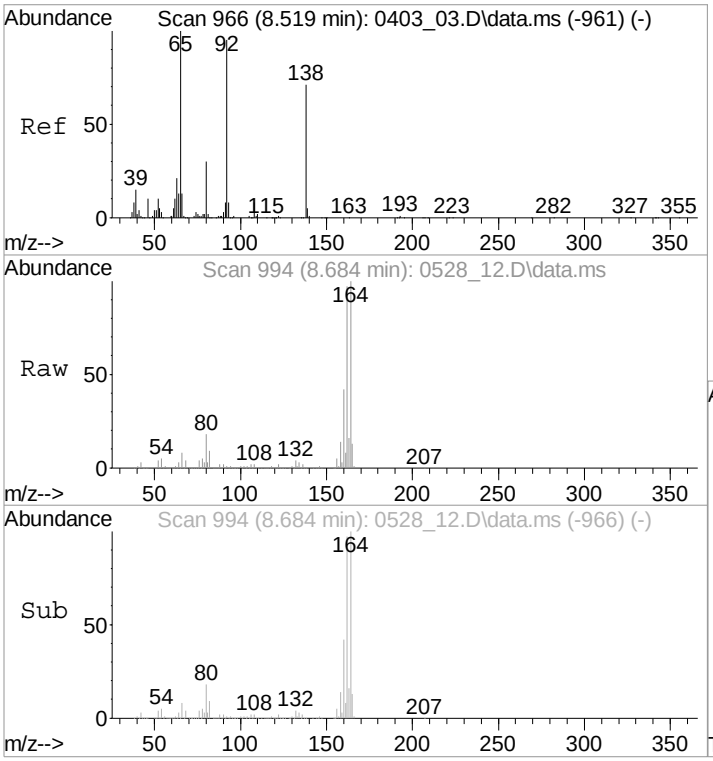


#50
2,6-Dinitrotoluene
Concen: Below Cal
RT: 8.390 min Scan# 944
Delta R.T. -0.041 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:165 Resp: 97

Ion	Ratio	Lower	Upper
165	100		
89	0.0	38.1	78.1#
63	0.0	39.5	79.5#
148	0.0	0.7	40.7#

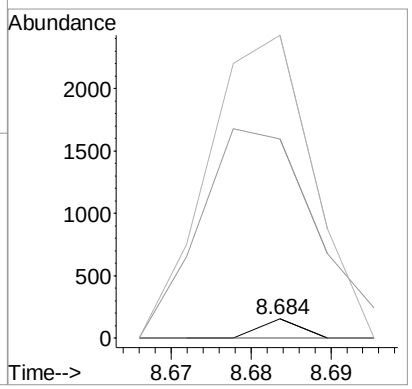


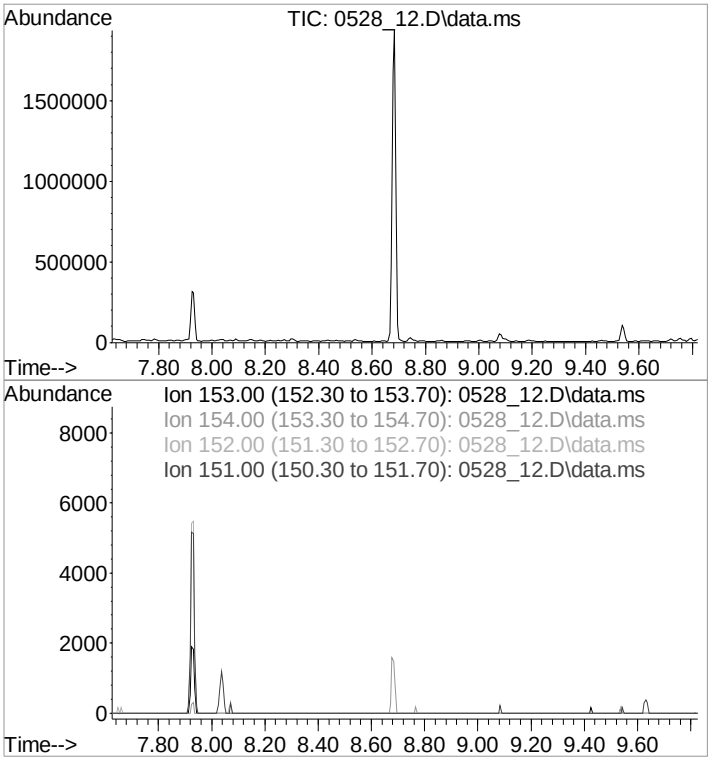


#51
3-Nitroaniline
Concen: Below Cal
RT: 8.684 min Scan# 994
Delta R.T. 0.065 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:138 Resp: 55

Ion	Ratio	Lower	Upper
138	100		
65	1015.9	102.8	142.8#
92	1546.5	89.4	129.4#



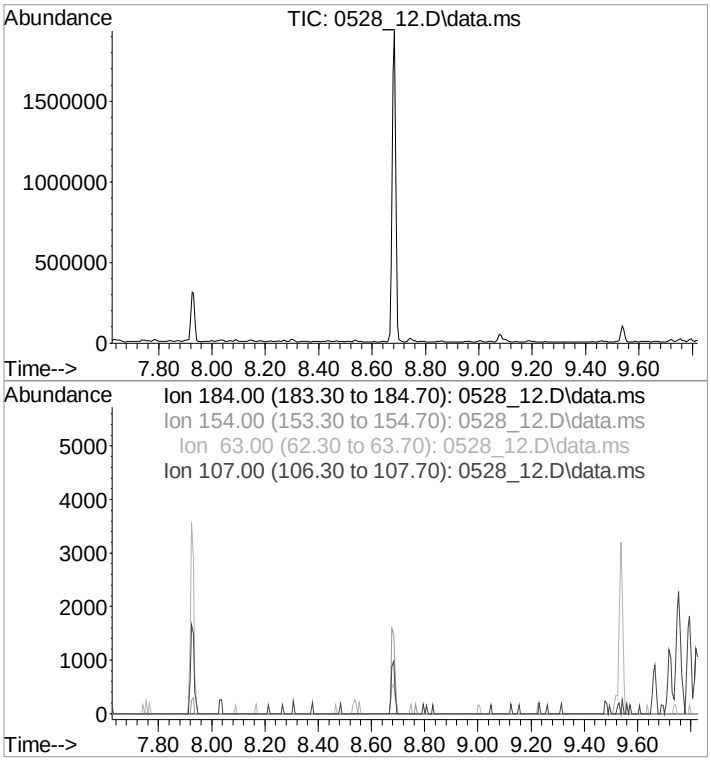


#52
Acenaphthene
Concen: N.D.
Expected RT: 8.72 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 153

Sig	Exp Ratio
153	100
154	100.1
152	46.8
151	17.9

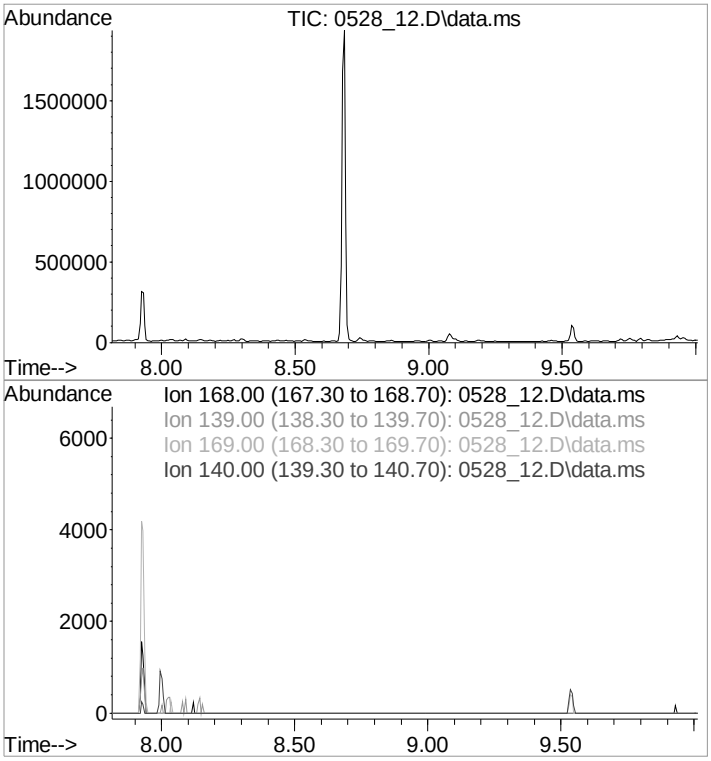


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.72 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
154	703.6
63	135.2
107	42.5

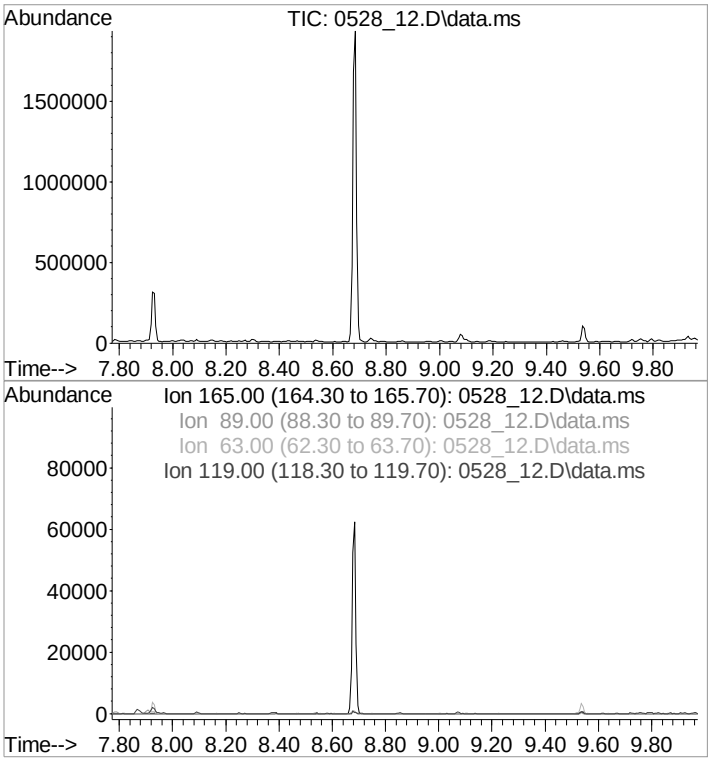


#54
Dibenzofuran
Concen: N.D.
Expected RT: 8.91 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 168

Sig	Exp Ratio
168	100
139	38.0
169	13.3
140	5.4

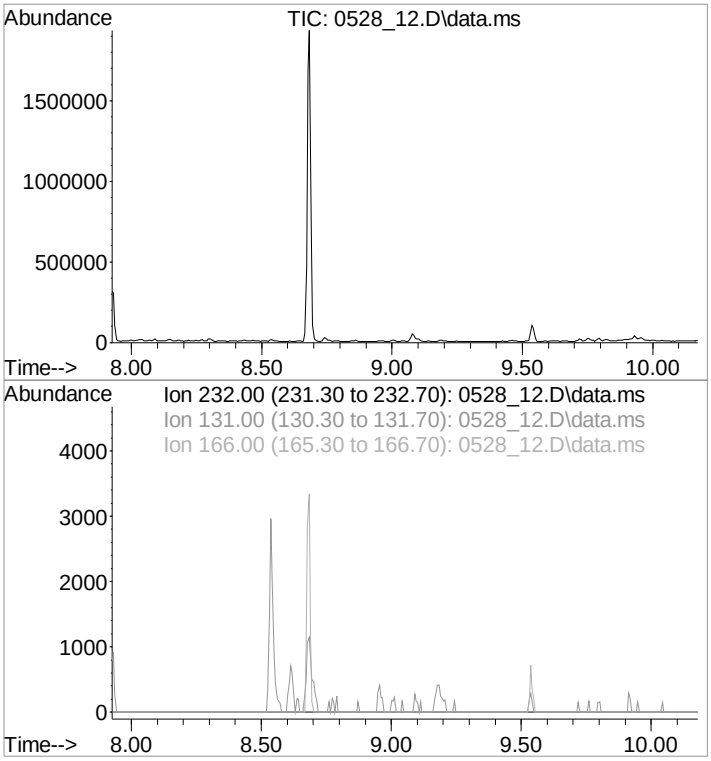


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.87 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	66.9
63	41.7
119	18.6

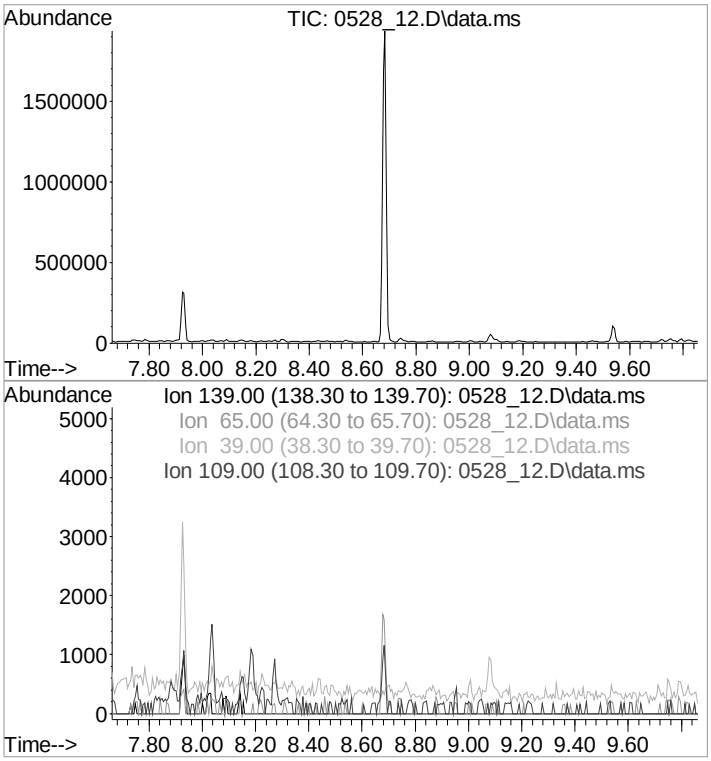


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 9.02 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	46.5
166	30.1

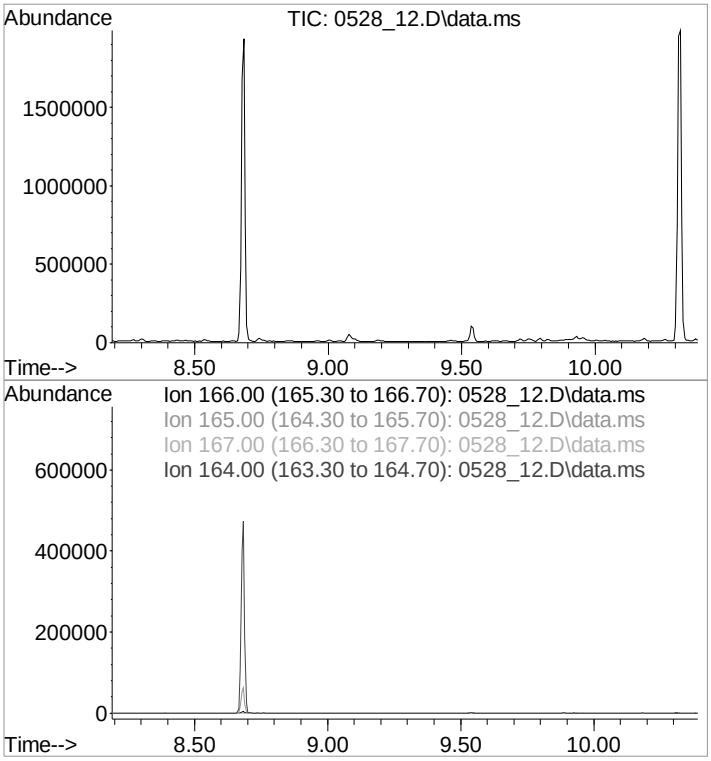


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.76 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	94.3
39	66.8
109	73.5

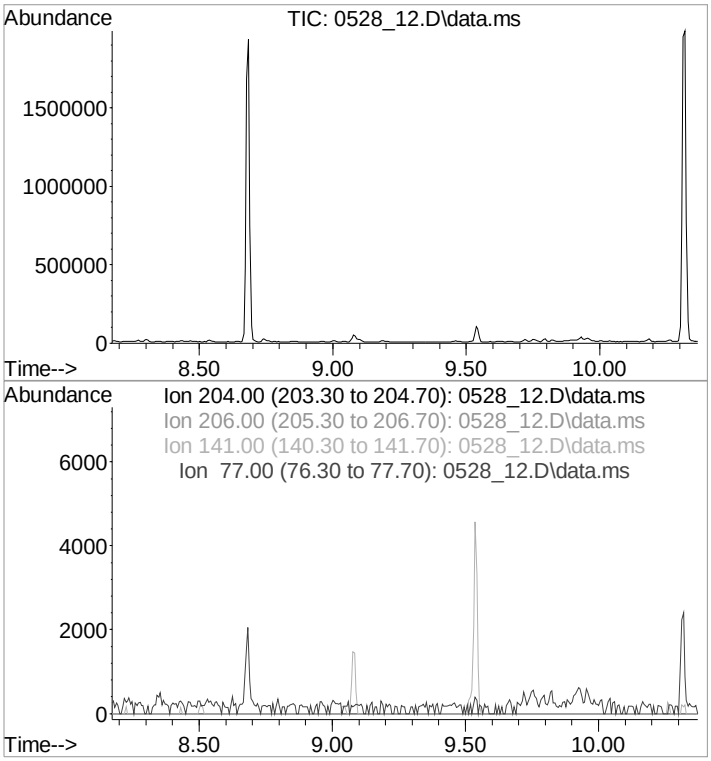


#58
Fluorene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
165	92.6
167	13.5
164	13.4

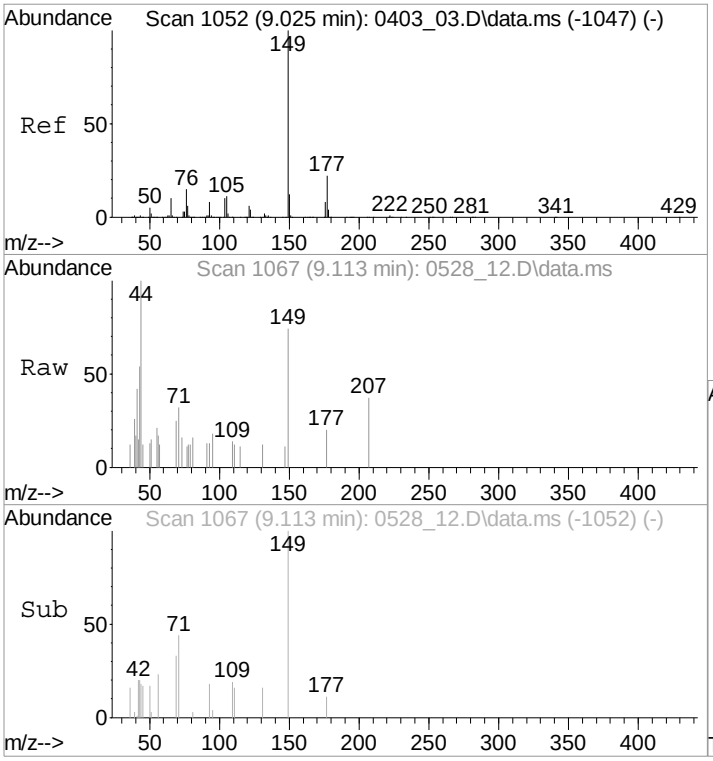


#59
4-Chlorophenyl-phenylether
Concen: N.D.
Expected RT: 9.27 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 204

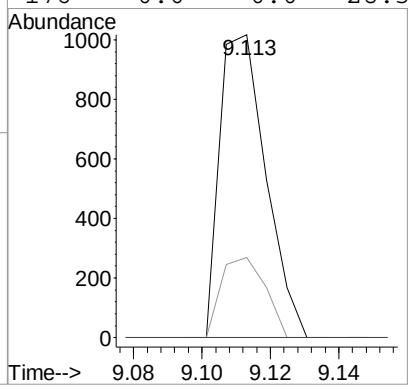
Sig	Exp Ratio
204	100
206	32.9
141	57.0
77	44.5

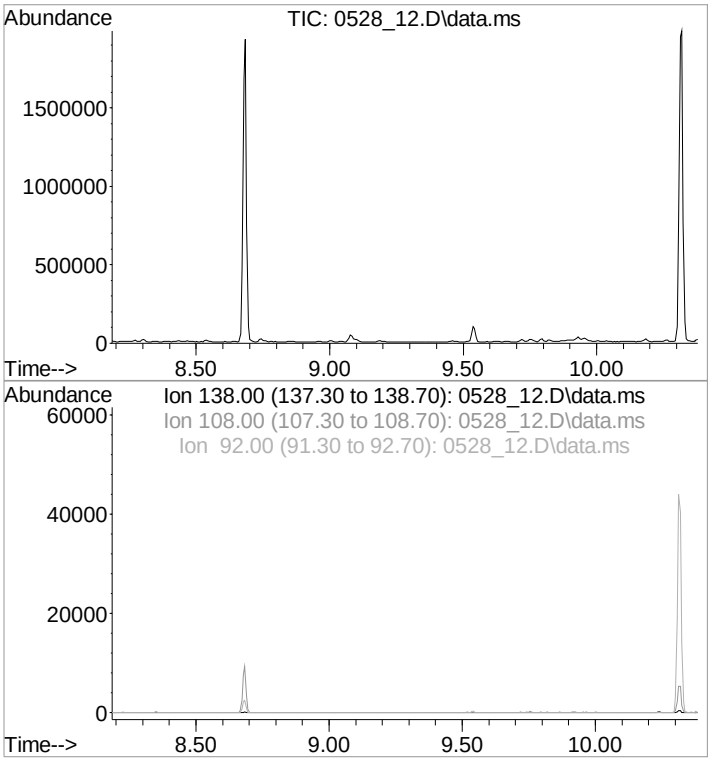


#60
Diethyl phthalate
Concen: Below Cal
RT: 9.113 min Scan# 1067
Delta R.T. -0.012 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:149 Resp: 952

Ion	Ratio	Lower	Upper
149	100		
177	26.5	2.3	42.3
150	0.0	0.0	32.3
176	0.0	0.0	28.3



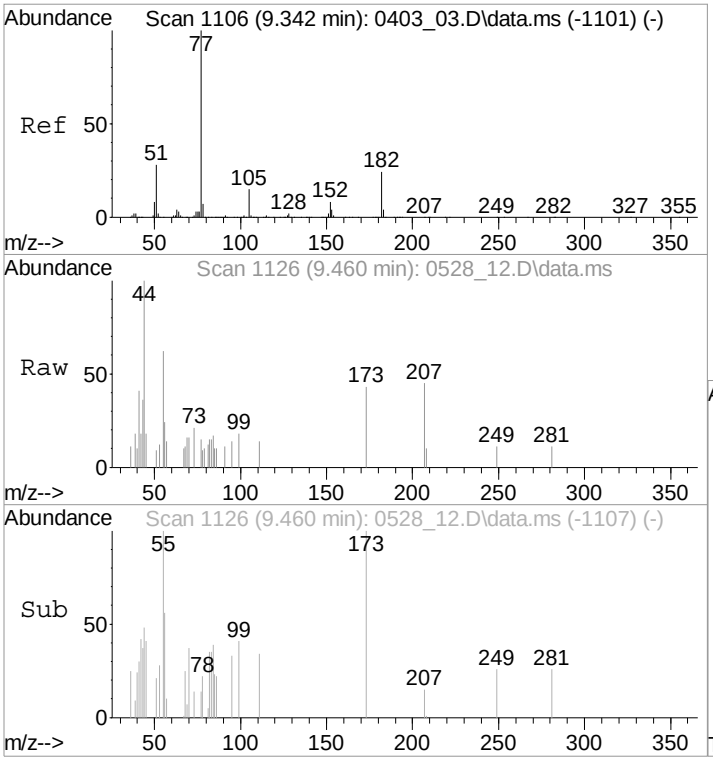


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.28 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 138

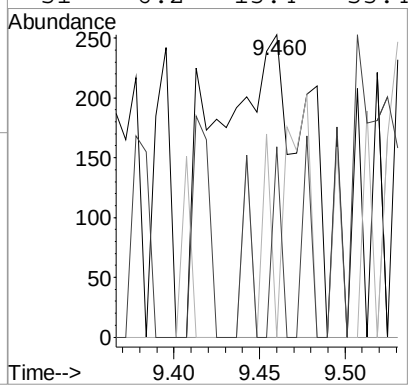
Sig	Exp Ratio
138	100
108	75.0
92	49.9

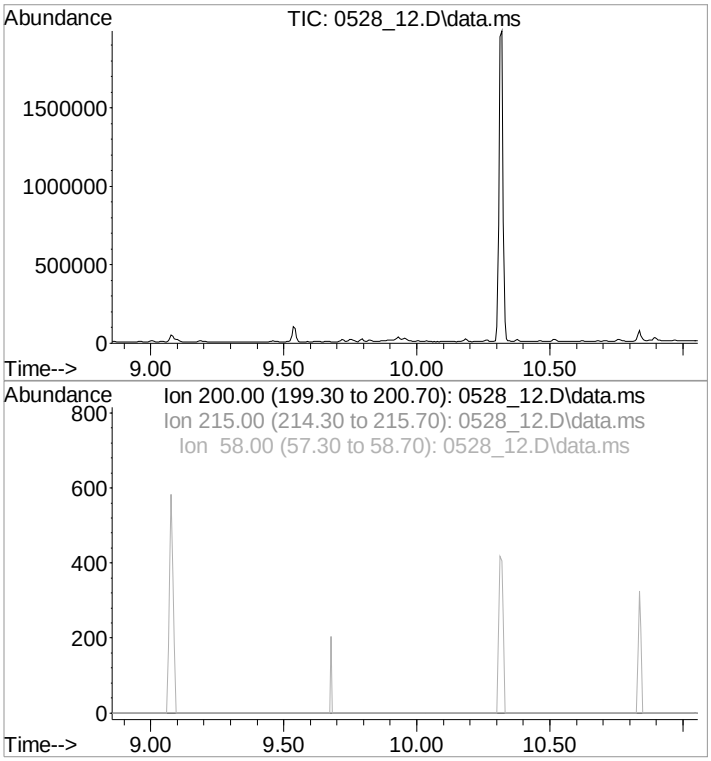


#62
Azobenzene
Concen: Below Cal
RT: 9.460 min Scan# 1126
Delta R.T. 0.012 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 77 Resp: 899

Ion	Ratio	Lower	Upper
77	100		
182	0.0	7.0	47.0#
105	0.0	0.0	36.3
51	6.2	13.4	53.4#



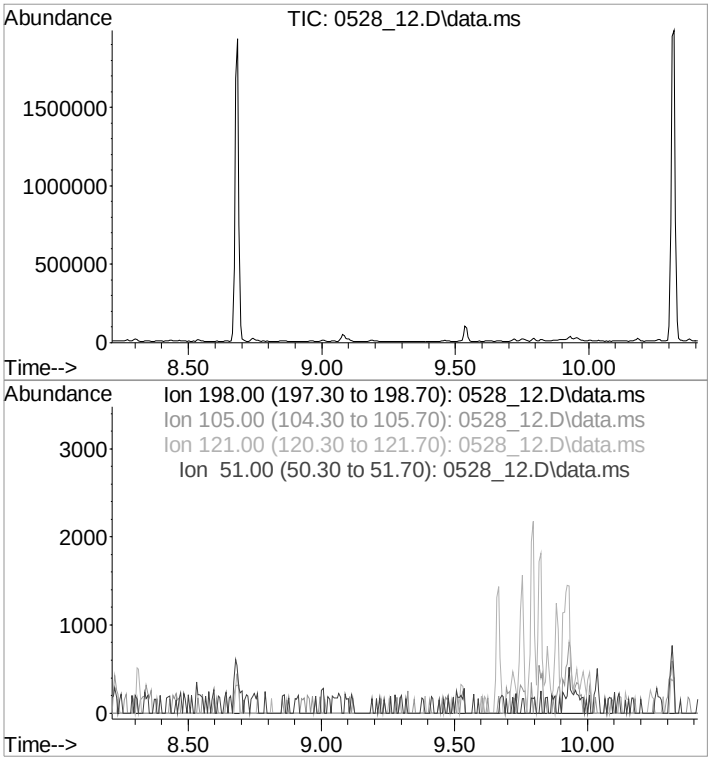


#63
Atrazine
Concen: N.D.
Expected RT: 9.95 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 200

Sig	Exp Ratio
200	100
215	55.2
58	42.7

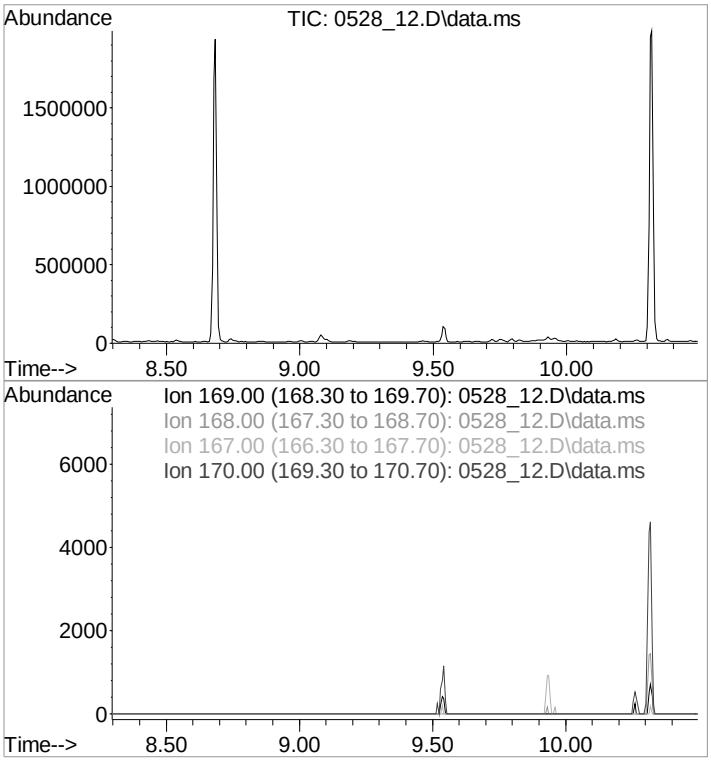


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.31 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 198

Sig	Exp Ratio
198	100
105	41.4
121	42.5
51	31.5

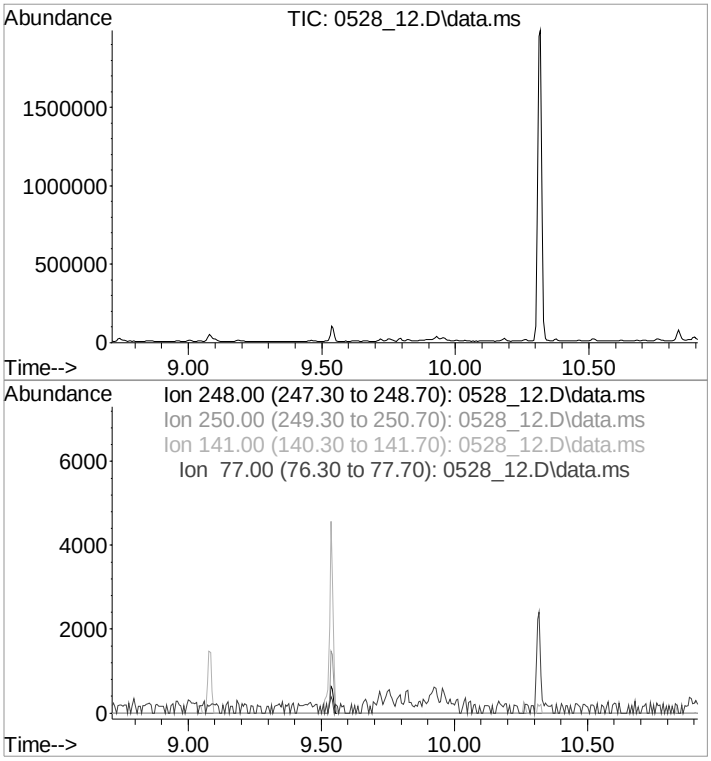


#66
N-Nitrosodiphenylamine
Concen: N.D.
Expected RT: 9.40 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 169

Sig	Exp Ratio
169	100
168	64.3
167	34.6
170	12.9

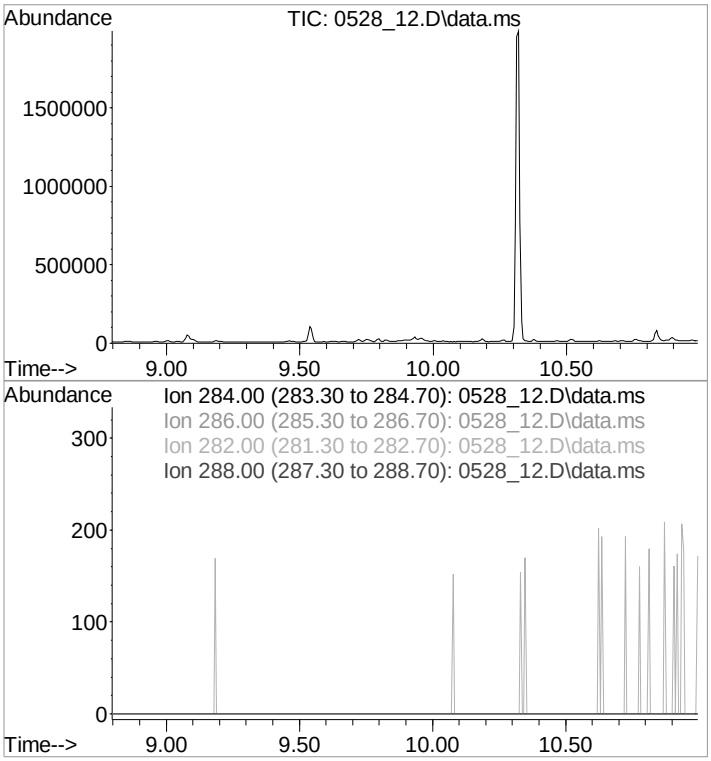


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.81 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	95.9
141	74.4
77	58.5

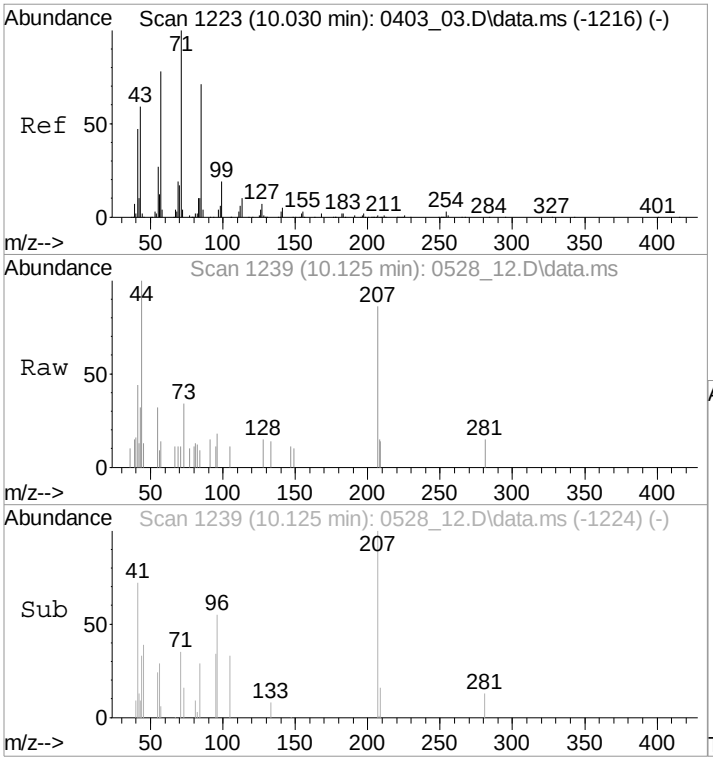


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.90 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 284

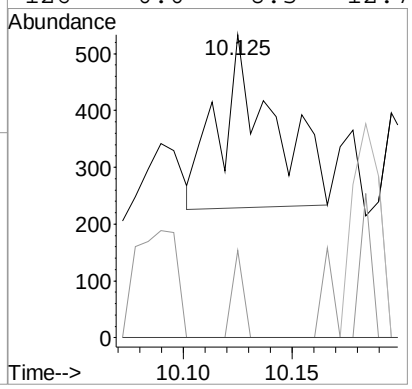
Sig	Exp Ratio
284	100
286	79.4
282	50.2
288	33.7

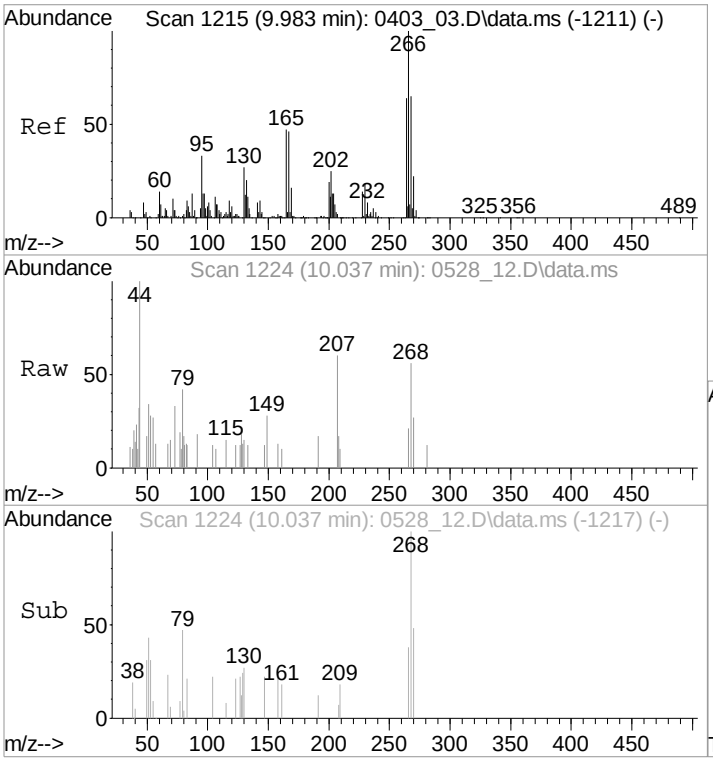


#70
n-octadecane
Concen: 0.2344389 ppb
RT: 10.125 min Scan# 1239
Delta R.T. -0.012 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 55 Resp: 526

Ion	Ratio	Lower	Upper
55	100		
56	10.3	48.0	72.0#
70	0.0	36.5	54.7#
126	0.0	8.5	12.7#

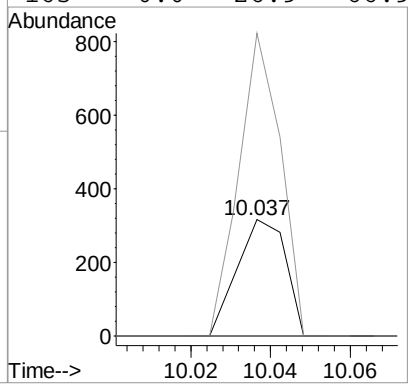


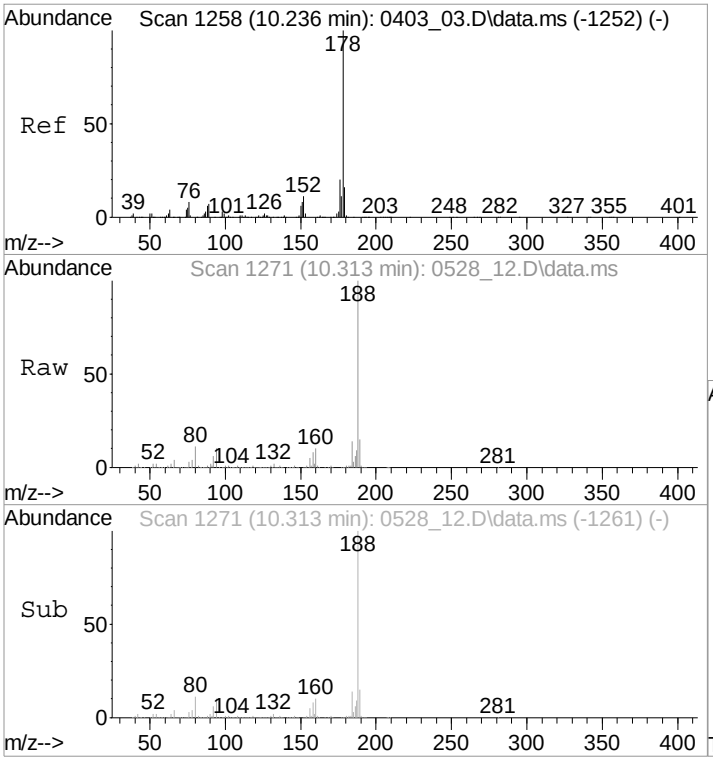


#71
Pentachlorophenol
Concen: Below Cal
RT: 10.037 min Scan# 1224
Delta R.T. -0.059 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:266 Resp: 268

Ion	Ratio	Lower	Upper
266	100		
268	259.9	44.3	84.3#
264	0.0	44.3	84.3#
165	0.0	26.9	66.9#

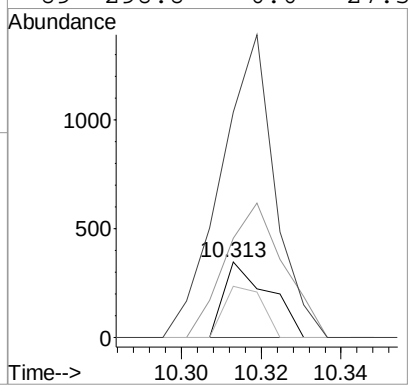


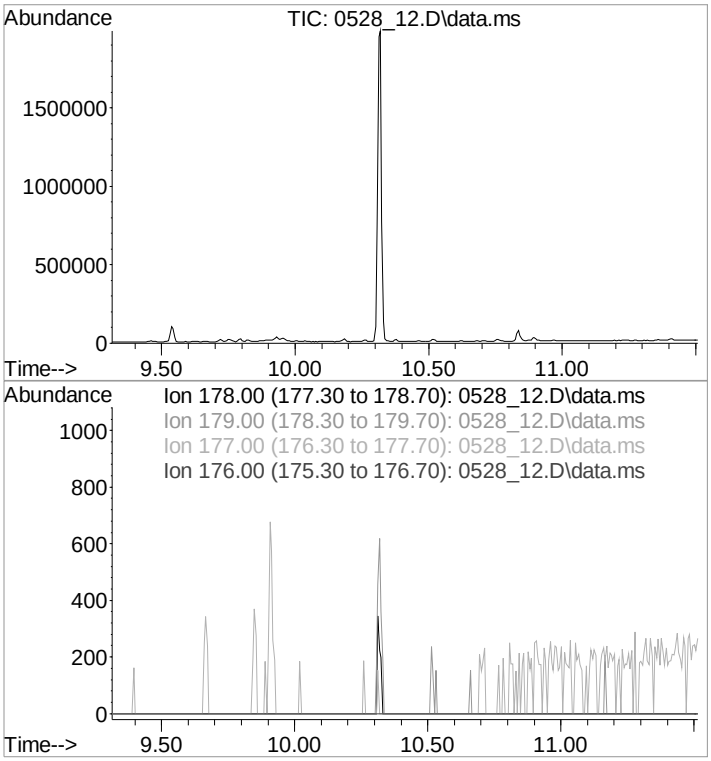


#72
Phenanthrene
Concen: Below Cal
RT: 10.313 min Scan# 1271
Delta R.T. -0.041 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:178 Resp: 271

Ion	Ratio	Lower	Upper
178	100		
179	131.5	0.0	35.2#
152	67.9	0.0	30.1#
89	298.8	0.0	27.5#



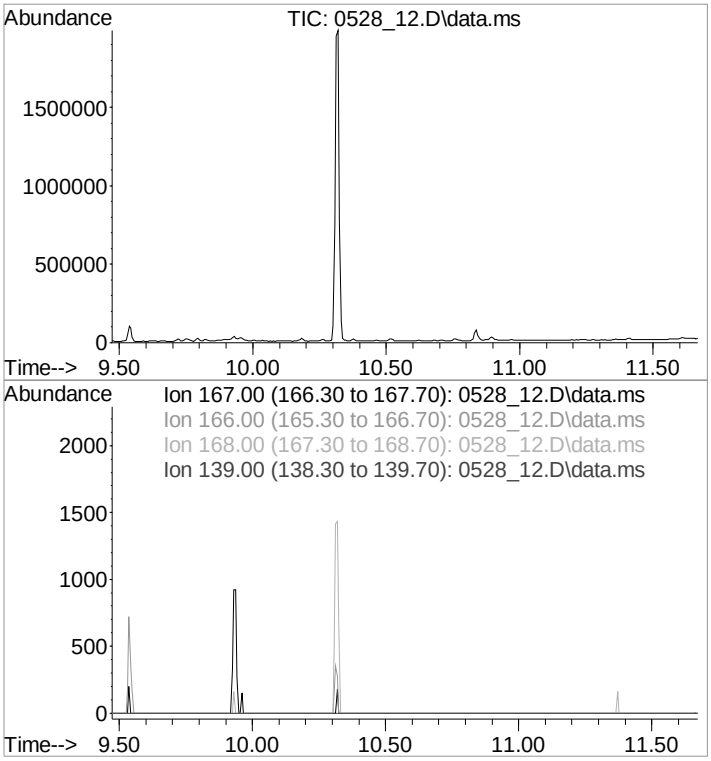


#73
Anthracene
Concen: N.D.
Expected RT: 10.41 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 178

Sig	Exp Ratio
178	100
179	14.9
177	9.5
176	17.8

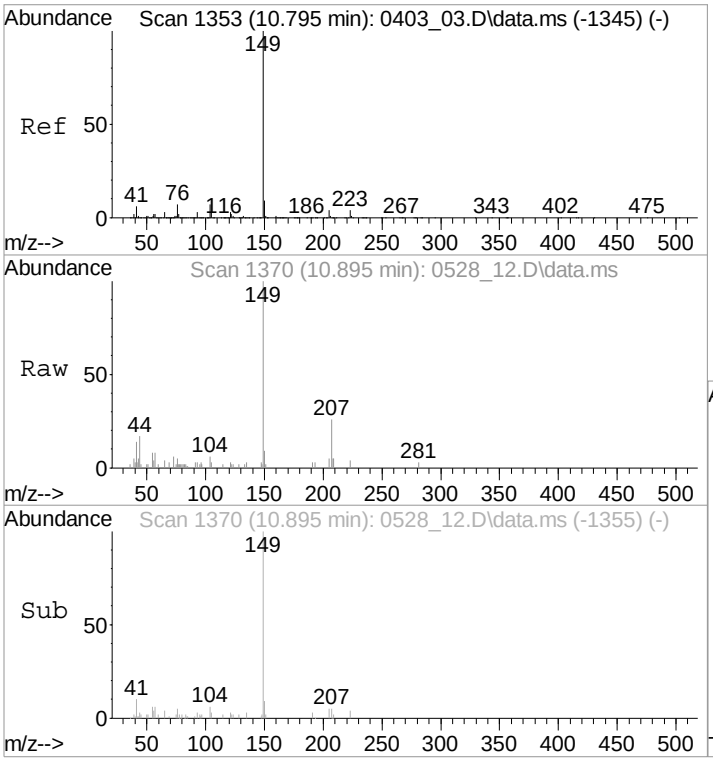


#74
Carbazole
Concen: N.D.
Expected RT: 10.57 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 167

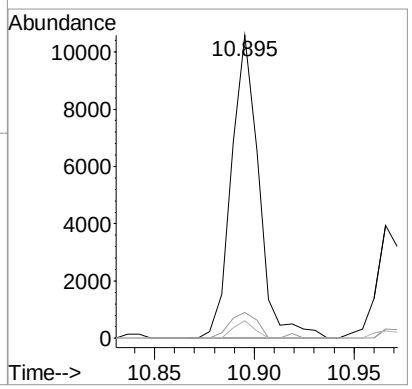
Sig	Exp Ratio
167	100
166	20.9
168	13.4
139	13.0

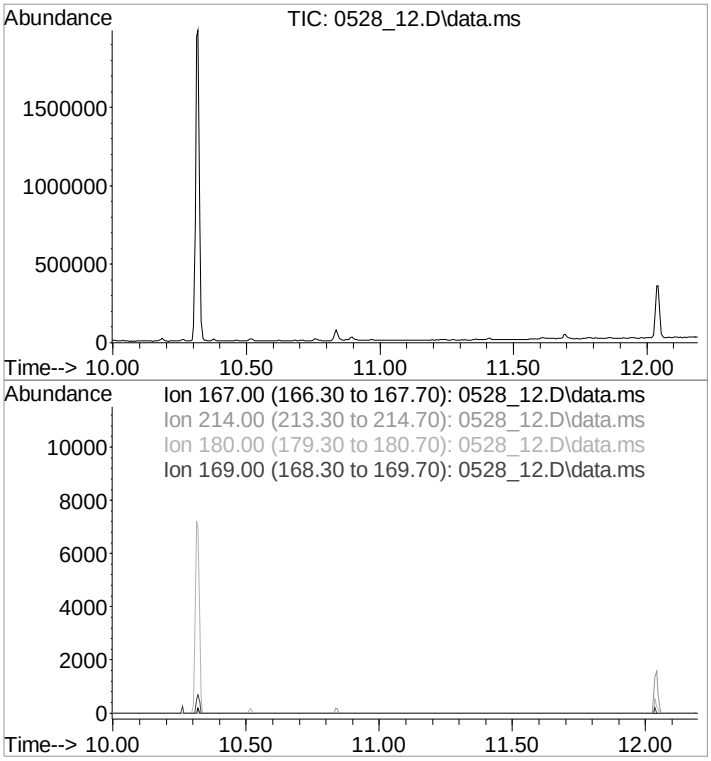


#75
Di-n-butyl phthalate
Concen: 0.4131679 ppb
RT: 10.895 min Scan# 1370
Delta R.T. -0.012 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:149 Resp: 10126

Ion	Ratio	Lower	Upper
149	100		
150	8.6	0.0	29.4
104	5.8	0.0	25.4



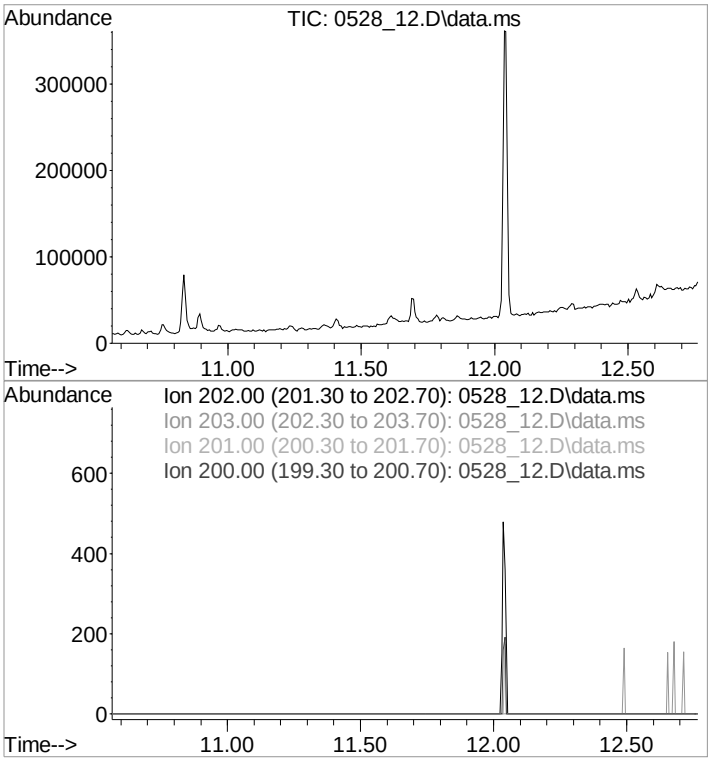


#76
2-nitrodiphenylamine
Concen: N.D.
Expected RT: 11.10 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 167

Sig	Exp Ratio
167	100
214	92.4
180	37.1
169	31.7

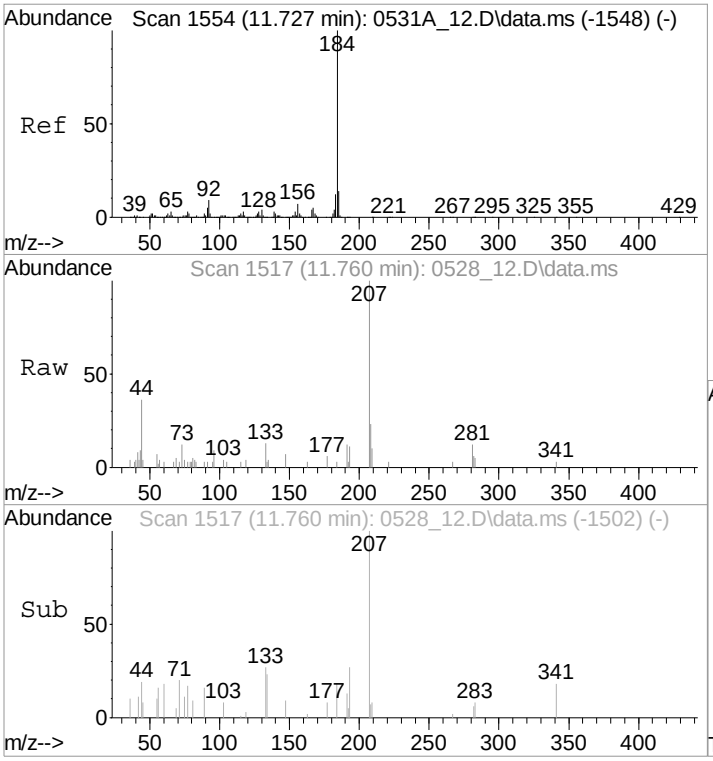


#77
Fluoranthene
Concen: N.D.
Expected RT: 11.67 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 202

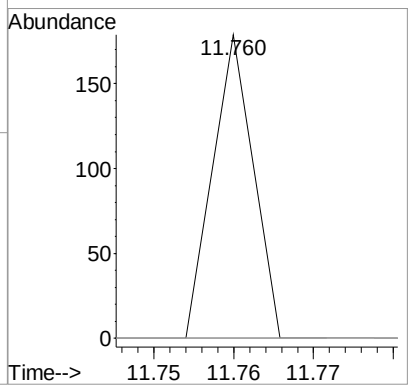
Sig	Exp Ratio
202	100
203	17.2
201	15.3
200	20.8

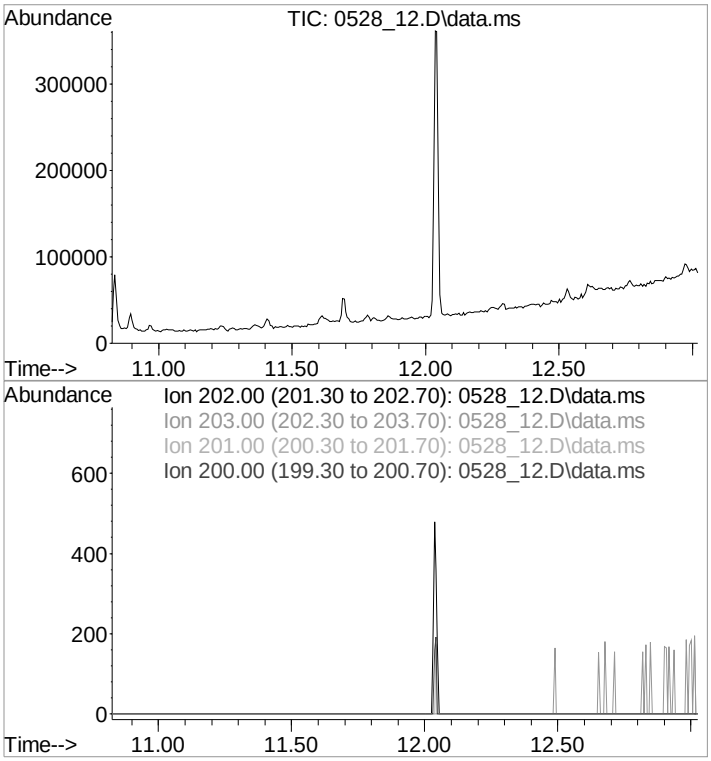


#79
Benzidine
Concen: Below Cal
RT: 11.760 min Scan# 1517
Delta R.T. -0.011 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:184 Resp: 63

Ion	Ratio	Lower	Upper
184	100		
185	0.0	0.0	34.1
183	0.0	0.0	31.7



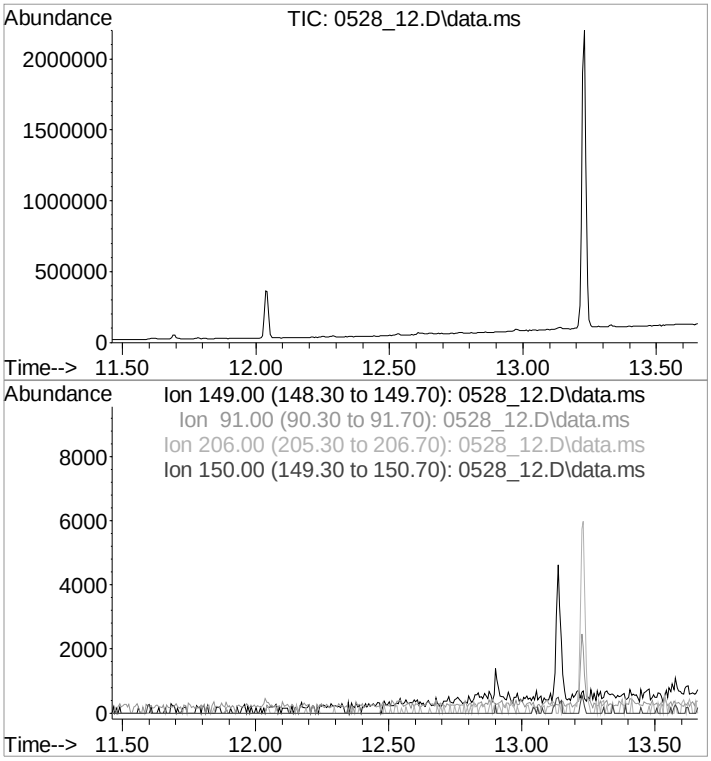


#80
Pyrene
Concen: N.D.
Expected RT: 11.92 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 202

Sig	Exp Ratio
202	100
203	17.2
201	17.9
200	20.8

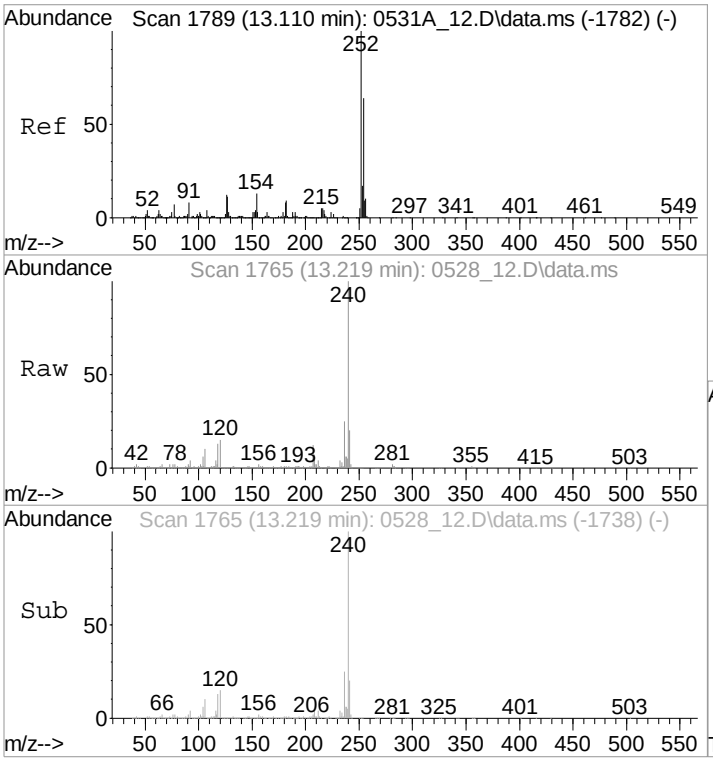


#82
Benzylbutyl phthalate
Concen: N.D.
Expected RT: 12.56 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 149

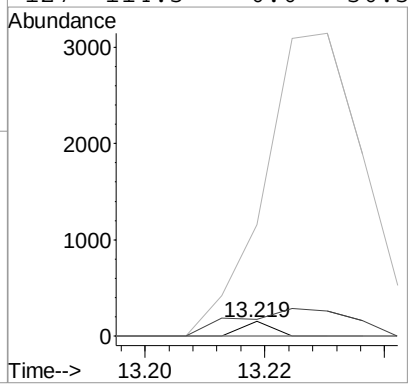
Sig	Exp Ratio
149	100
91	68.1
206	22.1
150	12.2

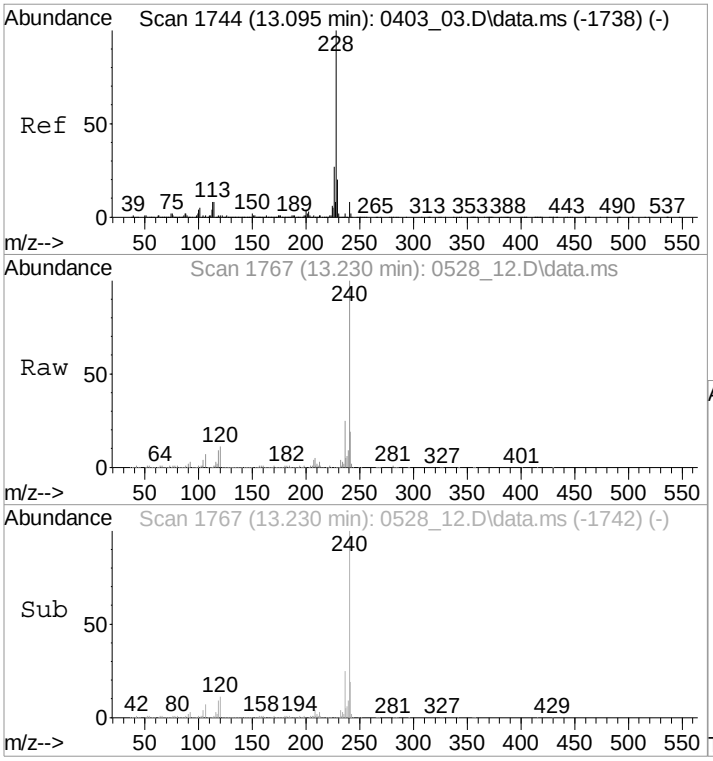


#83
3,3-Dichlorobenzidine
Concen: Below Cal
RT: 13.219 min Scan# 1765
Delta R.T. 0.059 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:252 Resp: 54

Ion	Ratio	Lower	Upper
252	100		
254	0.0	44.8	84.8#
154	751.9	0.0	33.1#
127	114.3	0.0	30.3#

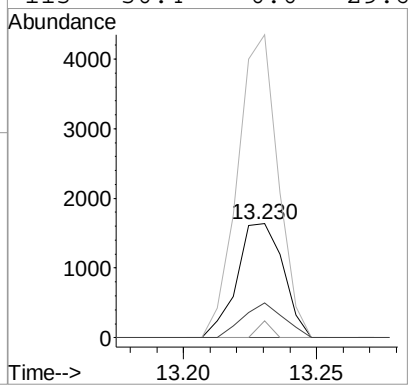


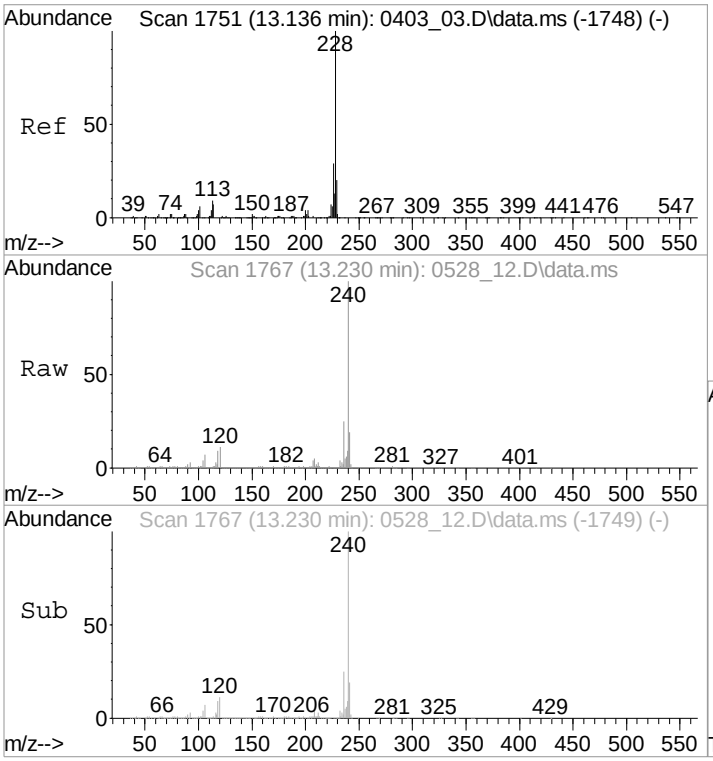


#84
Benzo(a)anthracene
Concen: Below Cal
RT: 13.230 min Scan# 1767
Delta R.T. -0.006 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:228 Resp: 1983

Ion	Ratio	Lower	Upper
228	100		
226	15.0	6.6	46.6
114	265.2	0.0	30.2#
113	30.4	0.0	29.6#

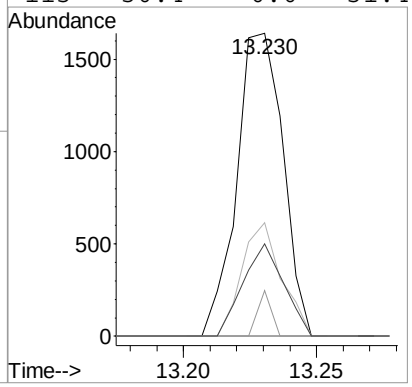


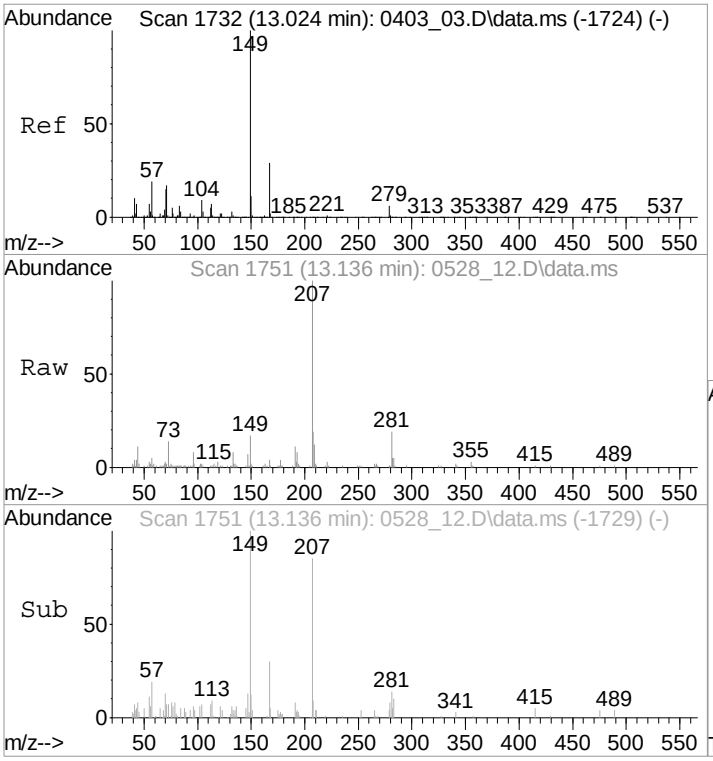


#85
Chrysene
Concen: Below Cal
RT: 13.230 min Scan# 1767
Delta R.T. -0.047 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:228 Resp: 1983

Ion	Ratio	Lower	Upper
228	100		
226	15.0	9.7	49.7
229	37.5	0.1	40.1
113	30.4	0.0	31.4

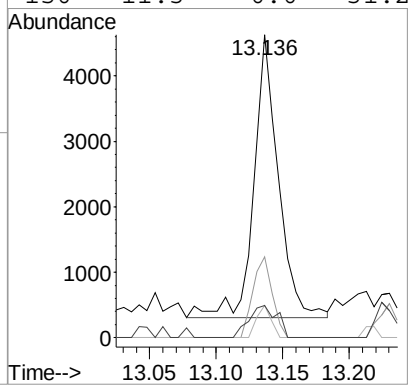


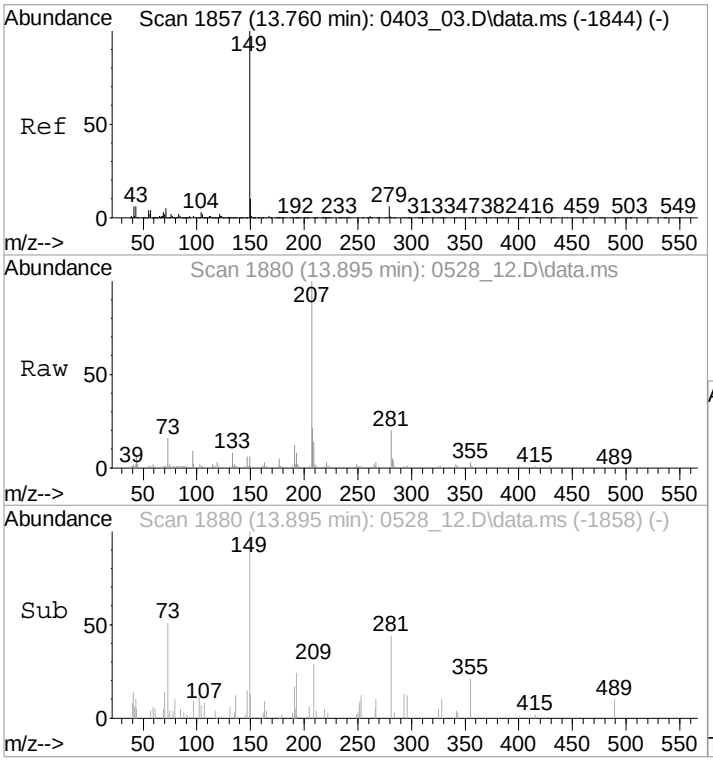


#86
bis(2-Ethylhexyl)phthalate
Concen: 0.3432675 ppb
RT: 13.136 min Scan# 1751
Delta R.T. -0.023 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:149 Resp: 5603

Ion	Ratio	Lower	Upper
149	100		
167	28.5	11.3	51.3
279	11.4	0.0	27.2
150	11.3	0.0	31.2

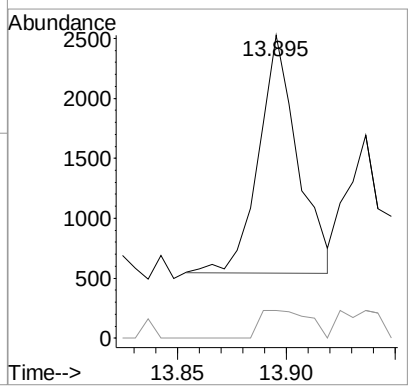


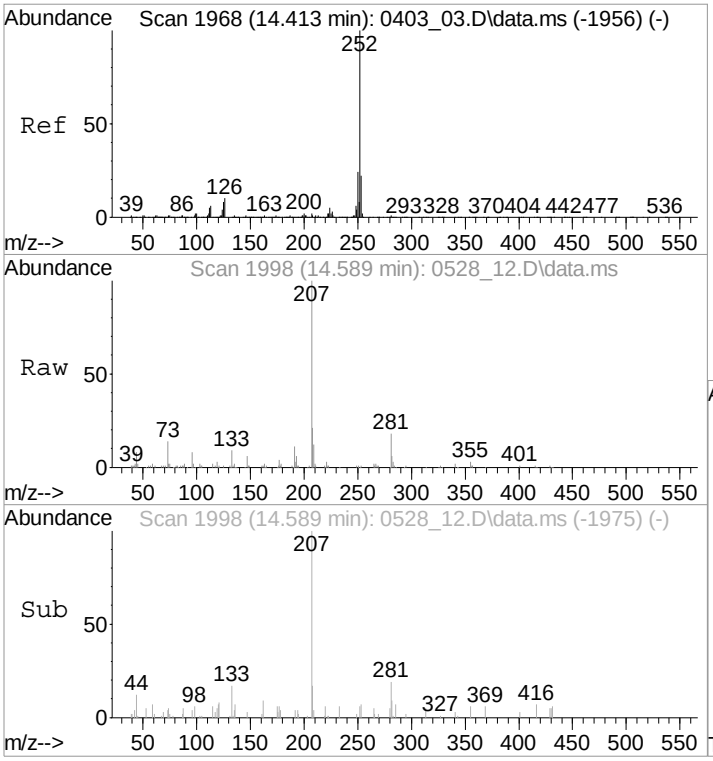


#87
Di-n-octyl phthalate
Concen: Below Cal
RT: 13.895 min Scan# 1880
Delta R.T. -0.023 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:149 Resp: 2459

Ion	Ratio	Lower	Upper
149	100		
150	11.7	0.0	29.8

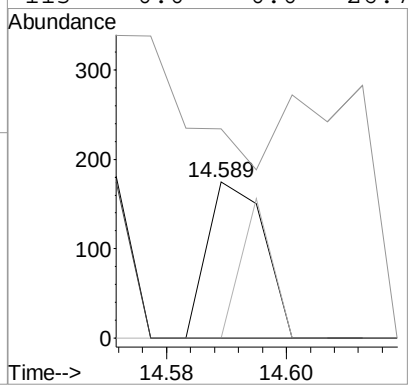


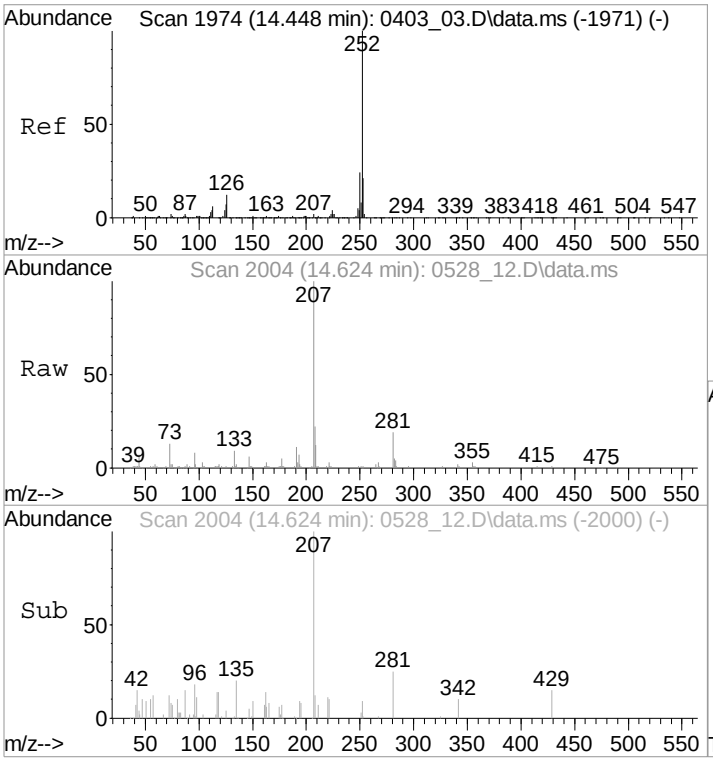


#89
Benzo(b)fluoranthene
Concen: Below Cal
RT: 14.589 min Scan# 1998
Delta R.T. -0.023 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:252 Resp: 115

Ion	Ratio	Lower	Upper
252	100		
253	0.0	1.9	41.9#
126	0.0	0.0	33.6
113	0.0	0.0	26.7

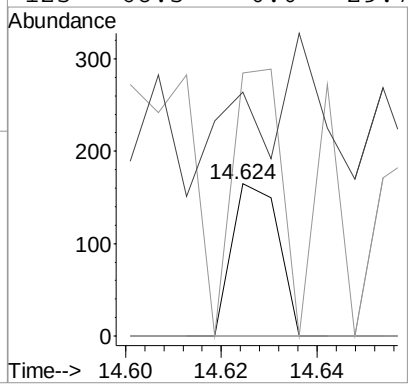


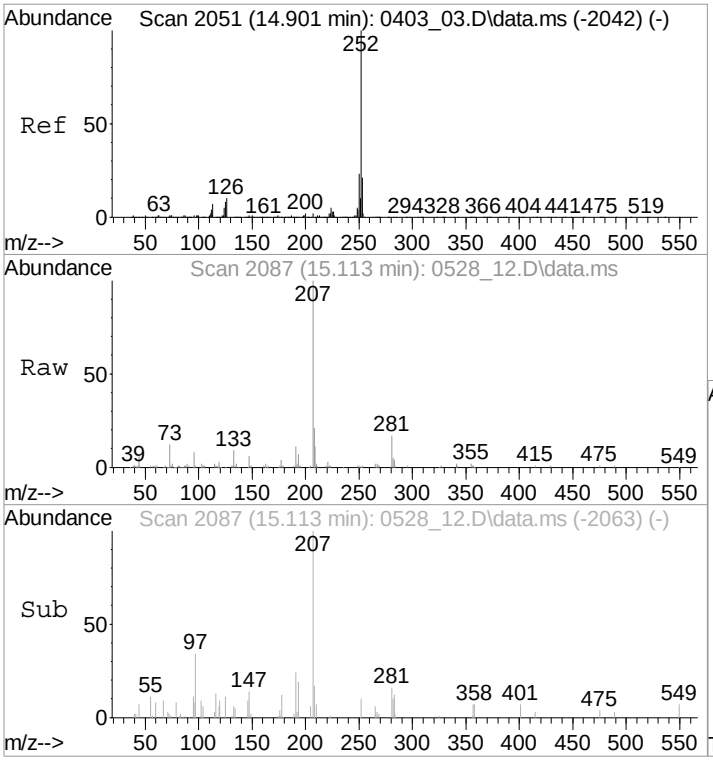


#90
Benzo(k)fluoranthene
Concen: Below Cal
RT: 14.624 min Scan# 2004
Delta R.T. -0.029 min
Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:252 Resp: 111

Ion	Ratio	Lower	Upper
252	100		
253	7.9	1.9	41.9
126	0.0	0.0	34.6
125	68.5	0.0	29.7#

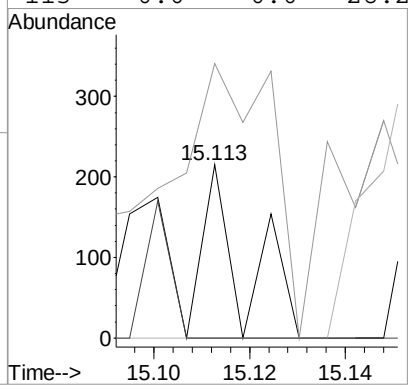


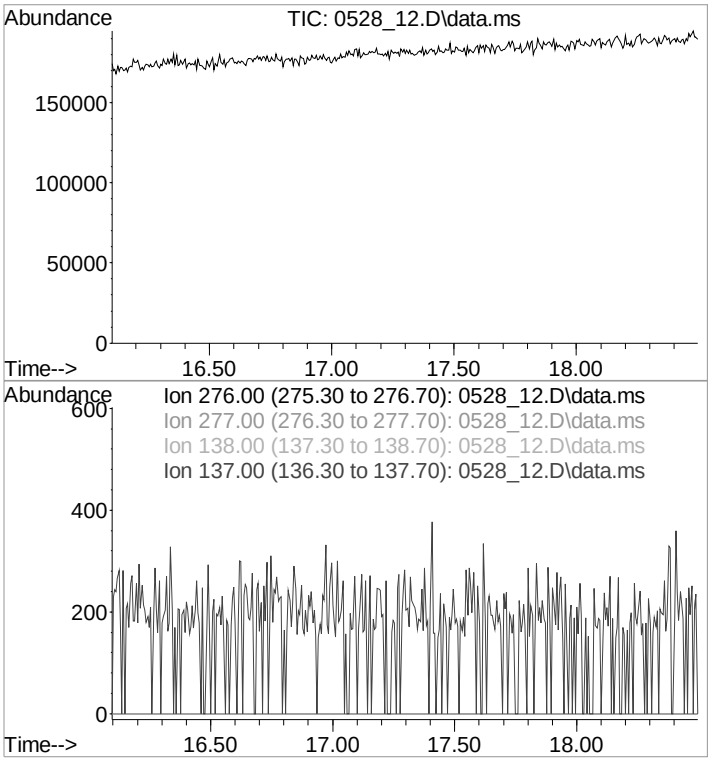


#91
Benzo(a)pyrene
Concen: Below Cal
RT: 15.113 min Scan# 2087
Delta R.T. -0.012 min
Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion:252 Resp: 130

Ion	Ratio	Lower	Upper
252	100		
253	63.3	1.9	41.9#
126	0.0	0.0	35.1
113	0.0	0.0	28.2



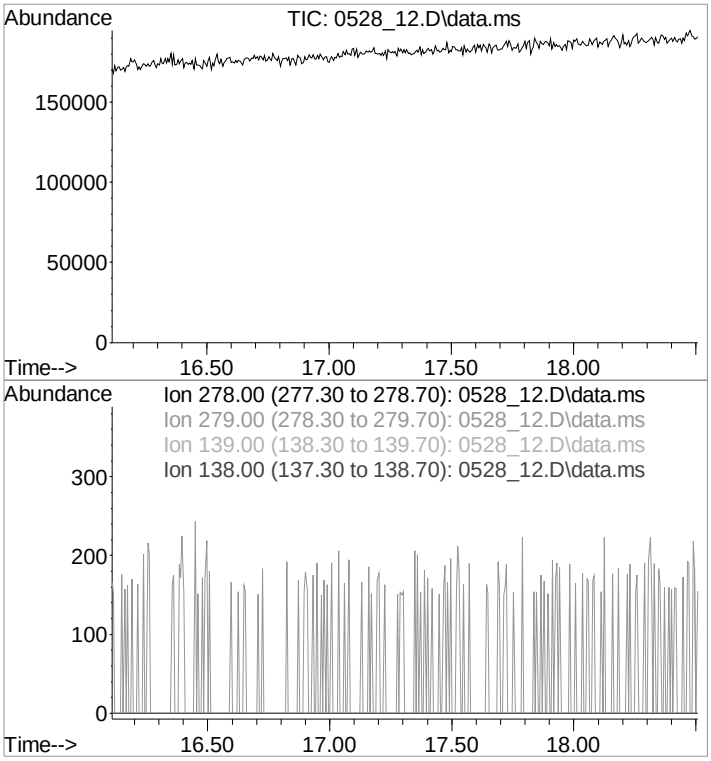


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 17.25 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
277	25.3
138	25.4
137	17.1

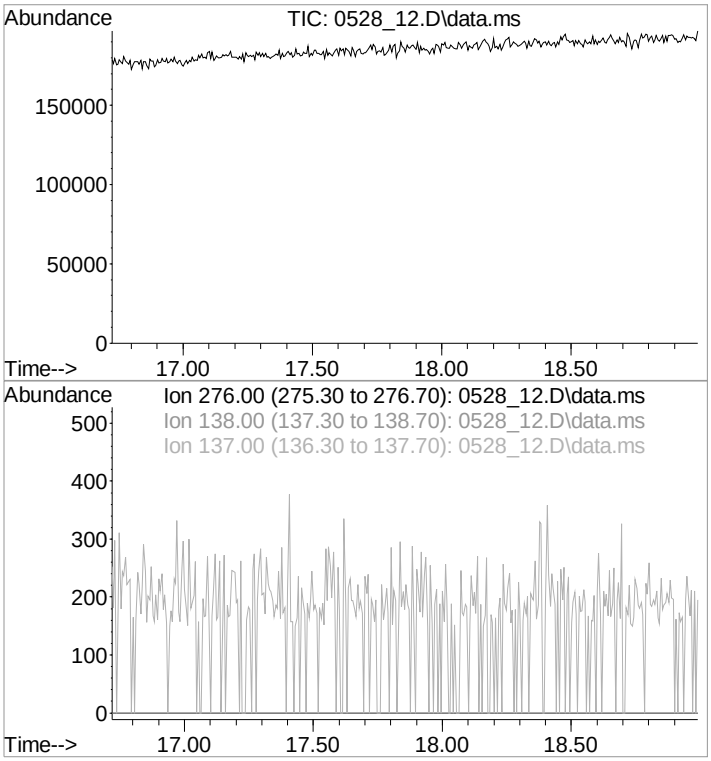


#93
Dibenz(a,h)anthracene
Concen: N.D.
Expected RT: 17.26 min

Lab File: 0528 12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 278

Sig	Exp Ratio
278	100
279	23.3
139	17.6
138	24.1



#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.87 min

Lab File: 0528_12.D
Acq: 28 May 2015 6:19 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	24.0
137	20.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 13.D
Acq On : 28 May 2015 6:42 pm
Operator : 377
Sample : MS 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 19 Sample Multiplier: 0.005

Quant Time: May 29 11:16:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.495	152	159916	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	603562	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.683	164	414850	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	788955	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	857592	8000.0000000 ppb	0.00
88) Perylene-d12	15.177	264	840882	8000.0000000 ppb	-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.348	112	18358	4.2756278 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 21.38%		
7) Phenol-d5	5.095	99	21191	3.6543589 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 18.27%		
23) Nitrobenzene-d5	6.031	82	39717	7.0737160 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 70.74%		
44) 2-Fluorobiphenyl	7.931	172	100288	7.4139262 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 74.14%		
67) 2,4,6-Tribromophenol	9.542	330	29207	12.0828142 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 60.41%		
81) p-Terphenyl-d14	12.036	244	120610	6.3616400 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 63.62%		
Target Compounds					Qvalue
2) Pyridine	3.413	79	79484	13.4966562 ppb	96
3) N-Nitrosodimethylamine	3.378	42	68859	22.5899615 ppb	93
5) Aniline	5.184	66	56014	20.1535267 ppb	96
6) bis(2-Chloroethyl)ether	5.225	63	128517	33.9339521 ppb	95
8) Phenol	5.107	94	58181	9.7629669 ppb	97
9) Benzaldehyde	5.095	105	69389	27.9004589 ppb	98
10) 2-Chlorophenol	5.290	128	202233	38.2647591 ppb	80
11) n-Decane	5.284	41	1161741	341.9088669 ppb #	70
12) 1,3-Dichlorobenzene	5.443	146	205610	33.6698541 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	207493	33.1795911 ppb	97
14) Benzyl Alcohol	5.601	79	133693	30.0874156 ppb	98
15) 1,2-Dichlorobenzene	5.660	146	199815	33.2960119 ppb	97
16) bis(2-Chloroisopropyl)...	5.737	121	61747	35.1901936 ppb	98
17) 2-Methylphenol	5.690	108	26933	5.8829956 ppb	95
18) Hexachloroethane	6.001	117	90554	34.0833318 ppb	97
19) N-Nitrosodi-n-propylamine	5.860	70	125011	37.6401496 ppb	93
20) 3&4-Methyl phenol	5.831	107	24656	4.6339813 ppb	91
21) Acetophenone	5.872	105	251328	34.6364620 ppb	99
24) Nitrobenzene	6.048	77	210095	36.6394556 ppb	96
25) Isophorone	6.284	82	389470	38.8035626 ppb	98
26) 2-Nitrophenol	6.378	139	116829	40.7155384 ppb	84
27) 2,4-Dimethylphenol	6.384	107	32406	5.9489055 ppb	91
28) bis(2-Chlorethoxy)methane	6.495	93	231270	36.0592690 ppb	98
29) 2,4-Dichlorophenol	6.613	162	113655	22.8181500 ppb	96
30) Benzoic Acid	6.413	105	73071	26.8518557 ppb #	38
31) 1,2,4-Trichlorobenzene	6.719	180	198244	33.9713942 ppb	99
32) Naphthalene	6.807	128	577791	34.3502339 ppb	99
33) 4-Chloroaniline	6.842	65	54325	25.7045404 ppb	92
34) Hexachloro-1,3-butadiene	6.925	225	118830	33.1772936 ppb	98
35) Caprolactam	7.189	113	14813	9.3770340 ppb	90
36) 4-Chloro-3-methylphenol	7.331	107	89905	18.3256672 ppb	97
37) 2-Methylnaphthalene	7.542	142	417652	34.5271252 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 13.D
Acq On : 28 May 2015 6:42 pm
Operator : 377
Sample : MS 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 19 Sample Multiplier: 0.005

Quant Time: May 29 11:16:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

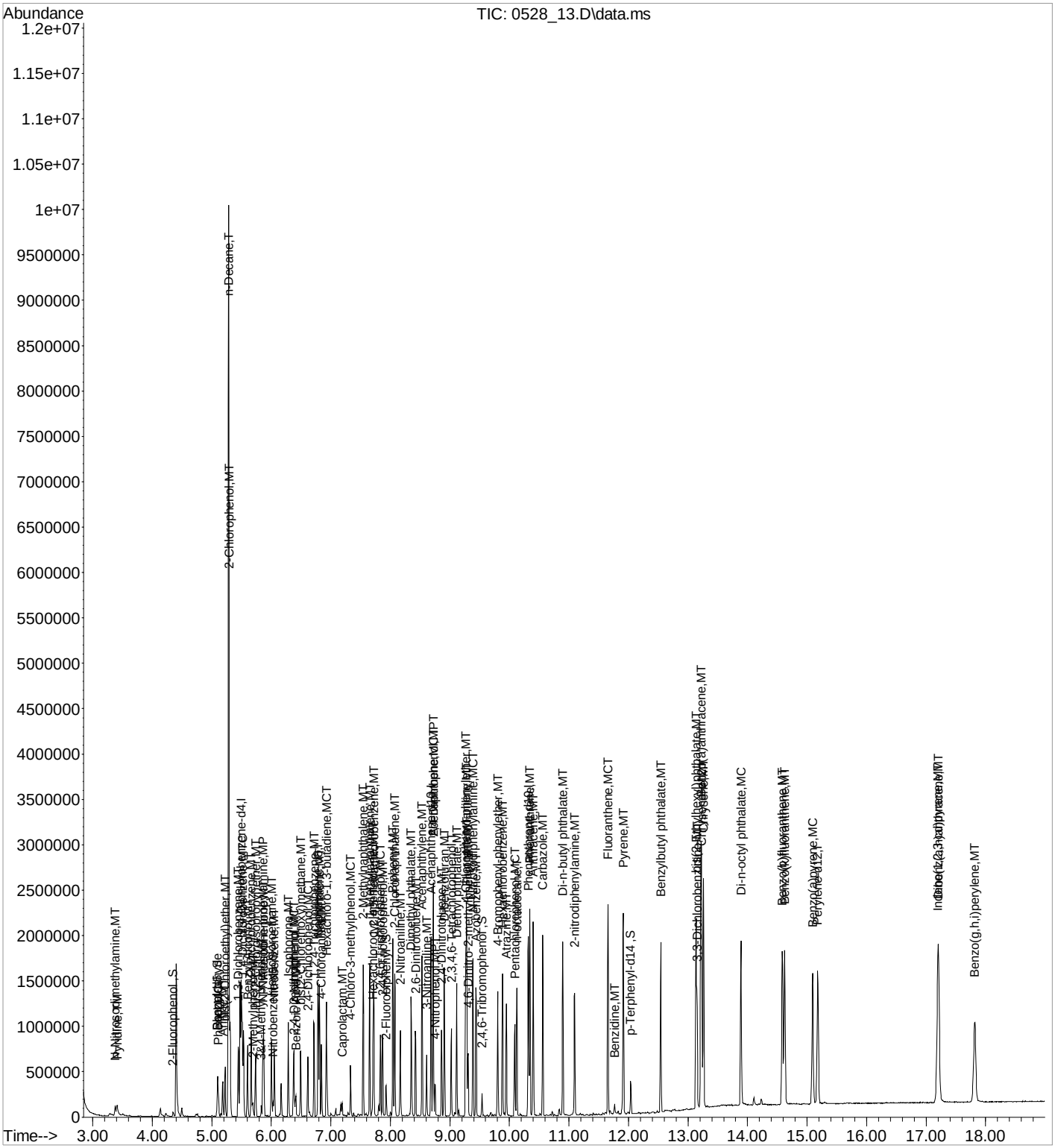
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	435858	40.2948337 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	225342	38.7524142 ppb		100
41)	Hexachlorocyclopentadiene	7.707	237	106663	24.3477204 ppb		98
42)	2,4,6-Trichlorophenol	7.831	196	113810	29.1443242 ppb		95
43)	2,4,5-Trichlorophenol	7.872	196	136356	32.7305951 ppb		98
45)	Biphenyl	8.042	154	586425	39.9198287 ppb		100
46)	2-Chloronaphthalene	8.072	162	471194	39.0992048 ppb		99
47)	2-Nitroaniline	8.166	138	146508	42.3947313 ppb		97
48)	Acenaphthylene	8.531	152	697923	38.2150831 ppb		99
49)	Dimethyl phthalate	8.348	163	519616	38.8235183 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	119823	40.0204112 ppb		90
51)	3-Nitroaniline	8.607	138	93825	30.7639568 ppb		94
52)	Acenaphthene	8.719	153	465179	38.4771046 ppb		98
53)	2,4-Dinitrophenol	8.719	184	70115	35.8978250 ppb	#	81
54)	Dibenzofuran	8.907	168	671370	38.3984213 ppb		99
55)	2,4-Dinitrotoluene	8.860	165	161367	41.1559248 ppb		98
56)	2,3,4,6-Tetrachlorophenol	9.025	232	116148	38.8852525 ppb		97
57)	4-Nitrophenol	8.754	139	54622	21.3623507 ppb		88
58)	Fluorene	9.283	166	558502	38.2422685 ppb		99
59)	4-Chlorophenyl-phenyle...	9.266	204	271927	37.3115033 ppb		95
60)	Diethyl phthalate	9.113	149	537495	39.9323168 ppb		100
61)	4-Nitroaniline	9.278	138	116951	40.8776409 ppb		98
62)	Azobenzene	9.436	77	537421	39.0365861 ppb		97
63)	Atrazine	9.948	200	145595	40.3500668 ppb		99
65)	4,6-Dinitro-2-methylph...	9.307	198	107261	40.5931720 ppb		88
66)	N-Nitrosodiphenylamine	9.389	169	459250	37.5584323 ppb		99
68)	4-Bromophenyl-phenylether	9.801	248	169373	38.4901518 ppb		97
69)	Hexachlorobenzene	9.883	284	199580	38.6969875 ppb		99
70)	n-octadecane	10.125	55	60872	27.7789472 ppb		99
71)	Pentachlorophenol	10.089	266	121501	40.7203883 ppb		96
72)	Phenanthrene	10.342	178	852108	37.2933681 ppb		100
73)	Anthracene	10.401	178	850450	38.8466325 ppb		100
74)	Carbazole	10.560	167	771864	38.4416189 ppb		100
75)	Di-n-butyl phthalate	10.895	149	941696	39.3417477 ppb		99
76)	2-nitrodiphenylamine	11.095	167	199892	39.8520260 ppb		99
77)	Fluoranthene	11.654	202	944459	38.0756262 ppb		99
79)	Benzidine	11.766	184	44234	4.2725990 ppb		98
80)	Pyrene	11.913	202	973700	39.5413692 ppb		99
82)	Benzylbutyl phthalate	12.542	149	451714	40.7670106 ppb		95
83)	3,3-Dichlorobenzidine	13.154	252	278935	31.9099268 ppb		99
84)	Benzo(a)anthracene	13.218	228	1001863	39.9364729 ppb		99
85)	Chrysene	13.260	228	951842	37.7615935 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.136	149	627712	37.2606489 ppb		100
87)	Di-n-octyl phthalate	13.889	149	1060045	37.7011634 ppb		100
89)	Benzo(b)fluoranthene	14.583	252	1031443	38.5942298 ppb		100
90)	Benzo(k)fluoranthene	14.624	252	989992	38.8243910 ppb		100
91)	Benzo(a)pyrene	15.095	252	911590	36.2366155 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.195	276	1119442	38.7470962 ppb		100
93)	Dibenz(a,h)anthracene	17.206	278	941251	37.8718116 ppb		99
94)	Benzo(g,h,i)perylene	17.812	276	918897	37.9879025 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 13.D
Acq On : 28 May 2015 6:42 pm
Operator : 377
Sample : MS 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 19 Sample Multiplier: 0.005

Quant Time: May 29 11:16:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 14.D
Acq On : 28 May 2015 7:05 pm
Operator : 377
Sample : MSD 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 20 Sample Multiplier: 0.005

Quant Time: May 29 11:16:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.495	152	154742	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.784	136	587769	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.683	164	402799	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	760654	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	826371	8000.0000000 ppb	0.00
88) Perylene-d12	15.177	264	808606	8000.0000000 ppb	-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.348	112	15899	3.8267320 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 19.13%		
7) Phenol-d5	5.095	99	19047	3.3944548 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 16.97%		
23) Nitrobenzene-d5	6.031	82	37905	6.9323885 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 69.32%		
44) 2-Fluorobiphenyl	7.931	172	95072	7.2386008 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 72.39%		
67) 2,4,6-Tribromophenol	9.542	330	26716	11.4635113 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 57.32%		
81) p-Terphenyl-d14	12.036	244	117065	6.4079408 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 64.08%		
Target Compounds					Qvalue
2) Pyridine	3.407	79	79610	13.9700450 ppb	99
3) N-Nitrosodimethylamine	3.378	42	63246	21.4423093 ppb	94
5) Aniline	5.184	66	55820	20.7552521 ppb	99
6) bis(2-Chloroethyl)ether	5.225	63	122495	33.4253480 ppb	95
8) Phenol	5.107	94	51917	9.0031386 ppb	94
9) Benzaldehyde	5.095	105	63079	26.2113403 ppb	98
10) 2-Chlorophenol	5.290	128	181480	35.4861956 ppb	84
11) n-Decane	5.284	41	1033382	314.3009199 ppb #	71
12) 1,3-Dichlorobenzene	5.442	146	195186	33.0315823 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	197867	32.6982614 ppb	96
14) Benzyl Alcohol	5.601	79	127595	29.6751952 ppb	100
15) 1,2-Dichlorobenzene	5.660	146	190234	32.7594033 ppb	97
16) bis(2-Chloroisopropyl)...	5.737	121	58851	34.6611807 ppb #	92
17) 2-Methylphenol	5.690	108	18143	4.0954969 ppb	94
18) Hexachloroethane	6.001	117	86072	33.4795808 ppb	98
19) N-Nitrosodi-n-propylamine	5.860	70	118010	36.7202505 ppb	93
20) 3&4-Methyl phenol	5.831	107	16366	3.1787613 ppb	91
21) Acetophenone	5.872	105	237678	33.8505201 ppb	99
24) Nitrobenzene	6.048	77	200316	35.8727067 ppb	96
25) Isophorone	6.284	82	366565	37.5028089 ppb	98
26) 2-Nitrophenol	6.378	139	110417	39.5148810 ppb #	80
27) 2,4-Dimethylphenol	6.384	107	26502	4.9958053 ppb	87
28) bis(2-Chlorethoxy)methane	6.495	93	220648	35.3274936 ppb	98
29) 2,4-Dichlorophenol	6.613	162	101775	20.9820640 ppb	95
30) Benzoic Acid	6.413	105	67471	25.5994400 ppb #	46
31) 1,2,4-Trichlorobenzene	6.719	180	189040	33.2645949 ppb	97
32) Naphthalene	6.807	128	552420	33.7243456 ppb	99
33) 4-Chloroaniline	6.842	65	52281	25.4020757 ppb	91
34) Hexachloro-1,3-butadiene	6.925	225	114720	32.8904041 ppb	98
35) Caprolactam	7.189	113	13745	8.9347504 ppb	87
36) 4-Chloro-3-methylphenol	7.331	107	79377	16.6144452 ppb	97
37) 2-Methylnaphthalene	7.542	142	397497	33.7438725 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 14.D
Acq On : 28 May 2015 7:05 pm
Operator : 377
Sample : MSD 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 20 Sample Multiplier: 0.005

Quant Time: May 29 11:16:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

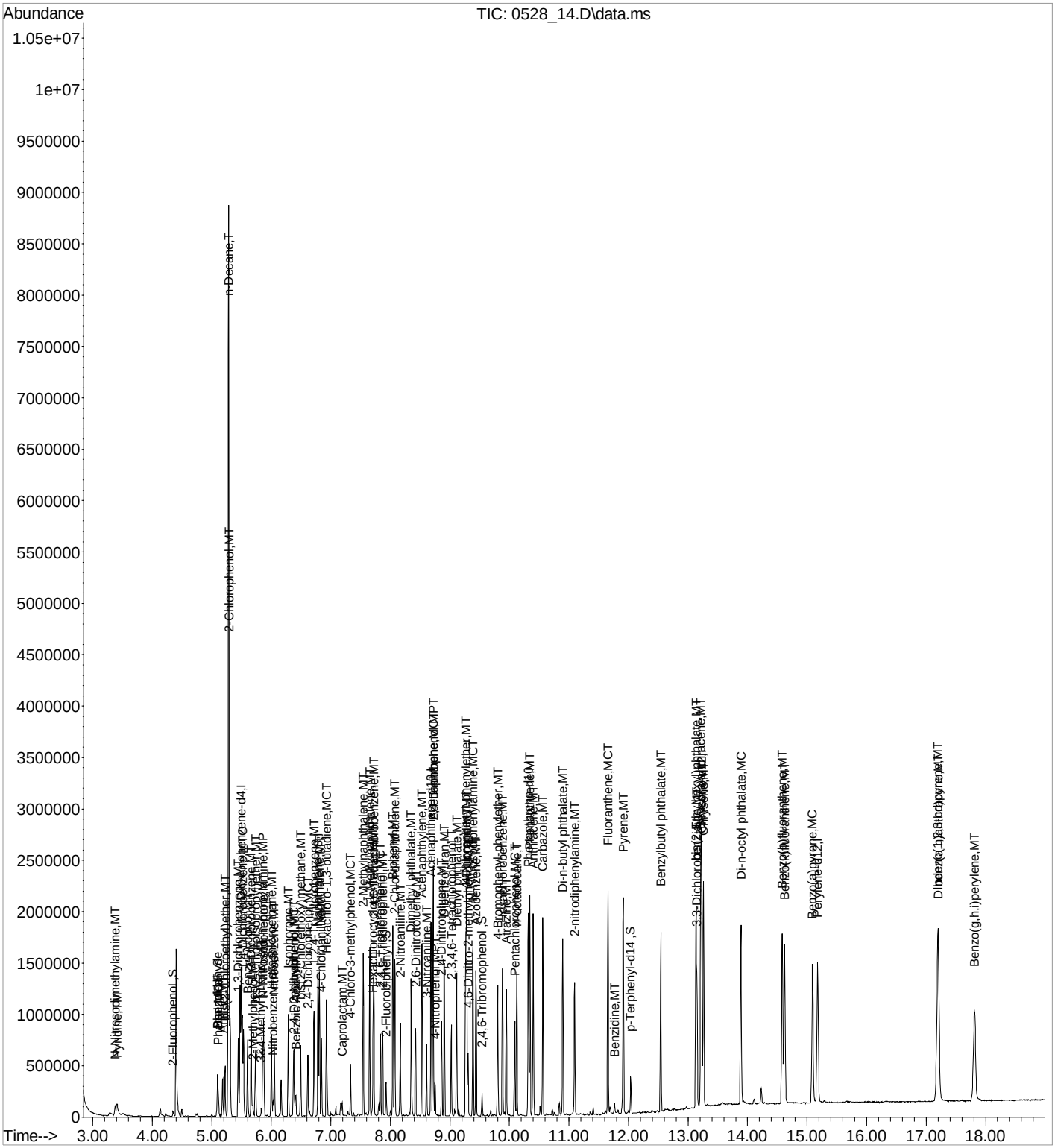
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	410465	38.9668850 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	212642	37.5509457 ppb		99
41)	Hexachlorocyclopentadiene	7.707	237	101023	23.7502116 ppb		97
42)	2,4,6-Trichlorophenol	7.831	196	102857	27.1275223 ppb		97
43)	2,4,5-Trichlorophenol	7.872	196	122144	30.1963533 ppb		99
45)	Biphenyl	8.042	154	558960	39.1885896 ppb		100
46)	2-Chloronaphthalene	8.072	162	449292	38.3972012 ppb		99
47)	2-Nitroaniline	8.166	138	139559	41.5921247 ppb		95
48)	Acenaphthylene	8.531	152	665726	37.5427020 ppb		99
49)	Dimethyl phthalate	8.348	163	496083	38.1741547 ppb		99
50)	2,6-Dinitrotoluene	8.425	165	112630	38.7434377 ppb		91
51)	3-Nitroaniline	8.607	138	95879	32.3779857 ppb		99
52)	Acenaphthene	8.719	153	443176	37.7538484 ppb		99
53)	2,4-Dinitrophenol	8.719	184	63142	33.5725976 ppb	#	94
54)	Dibenzofuran	8.907	168	645812	38.0417301 ppb		98
55)	2,4-Dinitrotoluene	8.860	165	153991	40.4497358 ppb		98
56)	2,3,4,6-Tetrachlorophenol	9.025	232	107328	37.0074308 ppb		98
57)	4-Nitrophenol	8.754	139	48938	19.7119855 ppb		90
58)	Fluorene	9.283	166	528839	37.2945267 ppb		99
59)	4-Chlorophenyl-phenyle...	9.266	204	257949	36.4524712 ppb		94
60)	Diethyl phthalate	9.113	149	503824	38.5506444 ppb		99
61)	4-Nitroaniline	9.272	138	114897	41.3612147 ppb		96
62)	Azobenzene	9.436	77	503395	37.6590019 ppb		97
63)	Atrazine	9.948	200	138550	39.5464076 ppb		99
65)	4,6-Dinitro-2-methylph...	9.307	198	98418	38.7935348 ppb		87
66)	N-Nitrosodiphenylamine	9.389	169	439443	37.2757098 ppb		99
68)	4-Bromophenyl-phenylether	9.801	248	157942	37.2278672 ppb		98
69)	Hexachlorobenzene	9.883	284	189693	38.1484172 ppb		98
70)	n-octadecane	10.125	55	56866	26.9163379 ppb		98
71)	Pentachlorophenol	10.089	266	110953	38.5688054 ppb		96
72)	Phenanthrene	10.342	178	795097	36.0929317 ppb		100
73)	Anthracene	10.401	178	793716	37.6040660 ppb		99
74)	Carbazole	10.560	167	731599	37.7919295 ppb		100
75)	Di-n-butyl phthalate	10.895	149	883034	38.2635648 ppb		99
76)	2-nitrodiphenylamine	11.095	167	186816	38.7393562 ppb		99
77)	Fluoranthene	11.654	202	894899	37.4199366 ppb		99
79)	Benzidine	11.766	184	41682	4.1782087 ppb		99
80)	Pyrene	11.913	202	919373	38.7457375 ppb		99
82)	Benzylbutyl phthalate	12.542	149	426763	39.9703294 ppb		97
83)	3,3-Dichlorobenzidine	13.148	252	272595	32.3628183 ppb		98
84)	Benzo(a)anthracene	13.213	228	942660	38.9925455 ppb		98
85)	Chrysene	13.260	228	884509	36.4160937 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.136	149	615893	37.9403125 ppb		99
87)	Di-n-octyl phthalate	13.889	149	1027531	37.9254757 ppb		100
89)	Benzo(b)fluoranthene	14.583	252	929537	36.1694515 ppb		99
90)	Benzo(k)fluoranthene	14.624	252	910295	37.1238681 ppb		100
91)	Benzo(a)pyrene	15.089	252	876326	36.2252899 ppb		100
92)	Indeno(1,2,3-cd)pyrene	17.195	276	1067294	38.4166710 ppb		99
93)	Dibenz(a,h)anthracene	17.206	278	900301	37.6700727 ppb		99
94)	Benzo(g,h,i)perylene	17.812	276	886708	38.1203785 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052815\
Data File : 0528 14.D
Acq On : 28 May 2015 7:05 pm
Operator : 377
Sample : MSD 1x WG791778 L767115-07 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 20 Sample Multiplier: 0.005

Quant Time: May 29 11:16:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/28/2015 12:23:43 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0526_00	INSTBLK	S823E19O						1	1	05/27/15 0226	"instrument blank"
2	0526_01	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/27/15 0250	"dftpp tune 14K19964"
3	0526_01T	TUNE SVMS 50 PPM 15B11028	TUNEC							1	05/27/15 0250	
4	0526_02	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
4	0526_02-1	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
4	0526_02-2	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
5	0526_03	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
5	0526_03-1	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
5	0526_03-2	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
6	0526_04	LCS	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0414	"water 15E04055/15E11539"
7	0526_05	LCSD	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0437	"water 15E04055/15E11539"
8	0526_06	BLANK	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0500	"water 15E04055/15E11539"
9	0526_07	BLANK	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0523	"tclp 15E04055/15E11539"
10	0526_08	LCS	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0547	"water 15E04055/15E11539"
11	0526_09	LCSD	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0610	"water 15E04055/15E11539"
12	0526_10	BLANK	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0633	"water 15E04055/15E11539"
13	0526_11	LCS	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0657	"water 15E04055/15E11539"
14	0526_12	LCSD	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0720	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/28/2015 12:23:43 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0526_13	BLANK	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0743	"water 15E04055/15E11539"
16	0526_14	L766427-02	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0807	"tclp 15E04055/15E11539"
17	0526_15	L766427-04	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0830	"tclp 15E04055/15E11539"
18	0526_16	L766427-06	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0854	"tclp 15E04055/15E11539"
19	0526_17	MS	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0917	"tclp 15E04055/15E11539"
20	0526_18	MSD	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0941	"tclp 15E04055/15E11539"
21	0526_19	L766427-08	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1004	"tclp 15E04055/15E11539"
22	0526_20	L766427-10	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1027	"tclp 15E04055/15E11539"
23	0526_21	L766427-12	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1051	"tclp 15E04055/15E11539"
24	0526_22	L766544-17	S823E19O	WG791812	8270AP2	GW	SME	TN	1.11	0.0056	05/27/15 1131	"water 15E04055/15E11539"
25	0526_23	L766858-02	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1155	"water 15E04055/15E11539"
26	0526_24	L766858-03	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1218	"water 15E04055/15E11539"
27	0526_25	L766858-04	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1241	"water 15E04055/15E11539"
28	0526_26	L766858-05	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1305	"water 15E04055/15E11539"
29	0526_27	L766858-08	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1328	"water 15E04055/15E11539"
30	0526_28	L766888-03	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1351	"water 15E04055/15E11539"
31	0526_29	L766891-13	S823E19O	WG791313	8270AP9	GW	MARATHONIL	IL	1	0.005	05/27/15 1415	"water 15E04055/15E11539"
32	0526_30	L766888-04	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1438	"water 15E04055/15E11539"
33	0526_31	DNR L766888-01	S823E19O	WG791313					1	0.005	05/27/15 1501	"water 15E04055/15E11539"
34	0526_32	DNR L766888-02	S823E19O	WG791313					1	0.005	05/27/15 1524	"water 15E04055/15E11539"
35	0526_33	DNR L766858-01	S823E19O	WG791313					1	0.005	05/27/15 1548	"water 15E04055/15E11539"
36	0526_34	INSTBLK	S823E19O						1	1	05/27/15 1615	"instrument blank"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/28/2015 12:23:43 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
37	0526_35	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/27/15 1638	"dftpp tune 14K19964"
38	0526_35T	TUNE SVMS 50 PPM 15B11028								1	05/27/15 1638	
39	0526_36	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
39	0526_36-1	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
39	0526_36-2	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
40	0526_37	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
40	0526_37-1	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
40	0526_37-2	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
41	0526_38	LCS	S823E19O	WG791571	8270	GW			1	0.005	05/27/15 1744	"water 15E04055/15E11539"
42	0526_39	LCSD	S823E19O	WG791571	8270	GW			1	0.005	05/27/15 1807	"water 15E04055/15E11539"
43	0526_40	BLANK	S823E19O	WG791571	8270	GW			1	0.005	05/27/15 1831	"water 15E04055/15E11539"
44	0526_41	BLANK	S823E19O	WG791572	SV8270TCLP	TCLP			1	0.05	05/27/15 1854	"tclp 15E04055/15E11539"
45	0526_42	L766888-01	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1918	"water 15E04055/15E11539"
46	0526_43	L766888-02	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1941	"water 15E04055/15E11539"
47	0526_44	L766858-01	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 2004	"water 15E04055/15E11539"
48	0526_45	L766858-06	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 2028	"water 15E04055/15E11539"
49	0526_46	L766858-07	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 2051	"water 15E04055/15E11539"
50	0526_47	L767115-02	S823E19O	WG791571	8270	GW	URSTAZ	AZ	1.25	0.0062	05/27/15 2115	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/28/2015 12:23:43 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
51	0526_48	L767115-05	S823E19O	WG791571	8270	GW	URSTAZ	AZ	1	0.005	05/27/15 2138	"water 15E04055/15E11539"
52	0526_49	DNR L767115-07	S823E19O	WG791571					1	0.005	05/27/15 2201	"water 15E04055/15E11539"
53	0526_50	L767115-09	S823E19O	WG791571	8270	GW	URSTAZ	AZ	1	0.005	05/27/15 2225	"water 15E04055/15E11539"
54	0526_51	DNR L766284-01	S823E19O	WG791572					1	0.05	05/27/15 2248	"tclp 15E04055/15E11539"
55	0526_52	L766284-02	S823E19O	WG791572	SV8270TCLP	TCLP	SPECENV	AL	1	0.05	05/27/15 2311	"tclp 15E04055/15E11539"
56	0526_53	L766284-03	S823E19O	WG791572	SV8270TCLP	TCLP	SPECENV	AL	1	0.05	05/27/15 2335	"tclp 15E04055/15E11539"
57	0526_54	L766284-04	S823E19O	WG791572	SV8270TCLP	TCLP	SPECENV	AL	1	0.05	05/27/15 2358	"tclp 15E04055/15E11539"
58	0526_55	L766284-05	S823E19O	WG791572	SV8270TCLP	TCLP	SPECENV	AL	1	0.05	05/28/15 0021	"tclp 15E04055/15E11539"
59	0526_56	L766303-01	S823E19O	WG791572	SV8270TCLP	TCLP	UNIREFENVP	PA	1	0.05	05/28/15 0045	"tclp 15E04055/15E11539"
60	0526_57	L766519-01	S823E19O	WG791572	SV8270TCLP	TCLP	EFFENVPTX	TX	1	0.05	05/28/15 0108	"tclp 15E04055/15E11539"
61	0526_58	L766738-01	S823E19O	WG791572	SV8270TCLP	TCLP	EMPEAV	TN	1	0.05	05/28/15 0132	"tclp 15E04055/15E11539"
62	0526_59	L766758-02	S823E19O	WG791572	SV8270TCLP	TCLP	MARATHONIL	IL	1	0.05	05/28/15 0155	"tclp 15E04055/15E11539"
63	0526_60	MS	S823E19O	WG791572	SV8270TCLP	TCLP			1	0.05	05/28/15 0218	"tclp 15E04055/15E11539"
64	0526_61	MSD	S823E19O	WG791572	SV8270TCLP	TCLP			1	0.05	05/28/15 0242	"tclp 15E04055/15E11539"
65	0526_62	L766893-01	S823E19O	WG791572	SV8270TCLP	TCLP	ENVIROFNM	NM	1	0.05	05/28/15 0305	"tclp 15E04055/15E11539"
66	0526_63	L766716-01	S823E19O	WG791605	625PHTHN	WW	CITGOSNC	NC	1	0.005	05/28/15 0328	"water 15E04055/15E11539"
67	0526_64	L766803-01	S823E19O	WG791605	625TTO	WW	EATONRNC	NC	1	0.005	05/28/15 0352	"water 15E04055/15E11539"
68	0526_65	L766097-02	S823E19O	WG791604	625TTO	WW	HALLKY	KY	1	0.005	05/28/15 0415	"water 15E04055/15E11539"
69	0526_66	L766168-01	S823E19O	WG791604	625PHTHN	WW	CAMD02	TN	1	0.005	05/28/15 0439	"water 15E04055/15E11539"
70	0526_67	L766082-01	S823E19O	WG791604	625	WW	FKNOX02	TN	1	0.005	05/28/15 0502	"water 15E04055/15E11539"
71	0526_68	L766136-02	S823E19O	WG791604	625TTO	WW	HALLKY	KY	1	0.005	05/28/15 0525	"water 15E04055/15E11539"
72	0526_69	L766168-03	S823E19O	WG791604	625PHTHN	WW	CAMD02	TN	1	0.005	05/28/15 0549	"water 15E04055/15E11539"
73	0526_70	L766169-01	S823E19O	WG791604	625PHTHN	WW	CAMD02	TN	1	0.005	05/28/15 0612	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/28/2015 12:23:43 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
74	0526_71	L766169-02	S823E19O	WG791604	625PHTHN	WW	CAMD02	TN	1	0.005	05/28/15 0636	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/27/2015 6:54:38 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0526_00	INSTBLK	S823E19O						1	1	05/27/15 0226	"instrument blank"
2	0526_01	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/27/15 0250	"dftpp tune 14K19964"
3	0526_01T	TUNE SVMS 50 PPM 15B11028	TUNEC							1	05/27/15 0250	
4	0526_02	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
4	0526_02-1	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
4	0526_02-2	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 0313	"8270 PRIMARY CALIBRATION"
5	0526_03	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
5	0526_03-1	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
5	0526_03-2	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 0336	"8270 TCL CALIBRATION"
6	0526_04	LCS	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0414	"water 15E04055/15E11539"
7	0526_05	LCSD	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0437	"water 15E04055/15E11539"
8	0526_06	BLANK	S823E19O	WG791811	8270TCLDNJ	GW			1	0.005	05/27/15 0500	"water 15E04055/15E11539"
9	0526_07	BLANK	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0523	"tclp 15E04055/15E11539"
10	0526_08	LCS	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0547	"water 15E04055/15E11539"
11	0526_09	LCSD	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0610	"water 15E04055/15E11539"
12	0526_10	BLANK	S823E19O	WG791604	625	WW			1	0.005	05/27/15 0633	"water 15E04055/15E11539"
13	0526_11	LCS	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0657	"water 15E04055/15E11539"
14	0526_12	LCSD	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0720	"water 15E04055/15E11539"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/27/2015 6:54:38 PM

Run ID : 052615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0526_13	BLANK	S823E19O	WG791605	625PHTHN	WW			1	0.005	05/27/15 0743	"water 15E04055/15E11539"
16	0526_14	L766427-02	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0807	"tclp 15E04055/15E11539"
17	0526_15	L766427-04	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0830	"tclp 15E04055/15E11539"
18	0526_16	L766427-06	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 0854	"tclp 15E04055/15E11539"
19	0526_17	MS	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0917	"tclp 15E04055/15E11539"
20	0526_18	MSD	S823E19O	WG791314	SV8270TCLP	TCLP			1	0.05	05/27/15 0941	"tclp 15E04055/15E11539"
21	0526_19	L766427-08	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1004	"tclp 15E04055/15E11539"
22	0526_20	L766427-10	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1027	"tclp 15E04055/15E11539"
23	0526_21	L766427-12	S823E19O	WG791314	SV8270TCLP	TCLP	POLYENV	AL	1	0.05	05/27/15 1051	"tclp 15E04055/15E11539"
24	0526_22	L766544-17	S823E19O	WG791812	8270AP2	GW	SME	TN	1.11	0.0056	05/27/15 1131	"water 15E04055/15E11539"
25	0526_23	L766858-02	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1155	"water 15E04055/15E11539"
26	0526_24	L766858-03	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1218	"water 15E04055/15E11539"
27	0526_25	L766858-04	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1241	"water 15E04055/15E11539"
28	0526_26	L766858-05	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1305	"water 15E04055/15E11539"
29	0526_27	L766858-08	S823E19O	WG791811	8270TCLDNJ	GW	ENSRLPA	NJ	1	0.005	05/27/15 1328	"water 15E04055/15E11539"
30	0526_28	L766888-03	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1351	"water 15E04055/15E11539"
31	0526_29	L766891-13	S823E19O	WG791313	8270AP9	GW	MARATHONIL	IL	1	0.005	05/27/15 1415	"water 15E04055/15E11539"
32	0526_30	L766888-04	S823E19O	WG791313	8270	GW	MCMJACBID	ID	1	0.005	05/27/15 1438	"water 15E04055/15E11539"
33	0526_31	DNR L766888-01	S823E19O	WG791313					1	0.005	05/27/15 1501	"water 15E04055/15E11539"
34	0526_32	DNR L766888-02	S823E19O	WG791313					1	0.005	05/27/15 1524	"water 15E04055/15E11539"
35	0526_33	DNR L766858-01	S823E19O	WG791313					1	0.005	05/27/15 1548	"water 15E04055/15E11539"
36	0526_34	INSTBLK	S823E19O						1	1	05/27/15 1615	"instrument blank"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/27/2015 6:54:38 PM

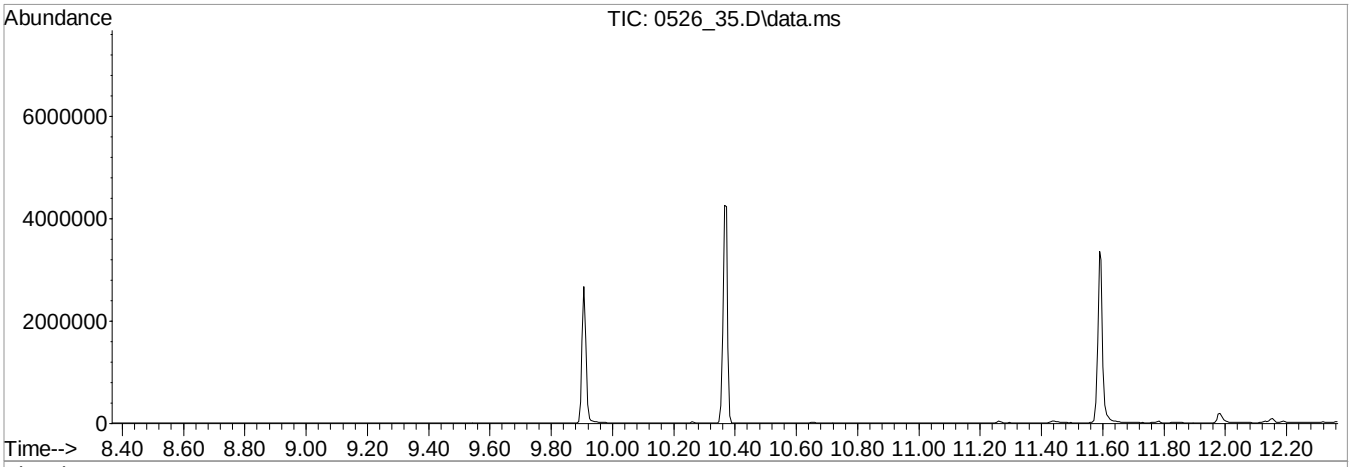
Run ID : 052615
Signature : _____

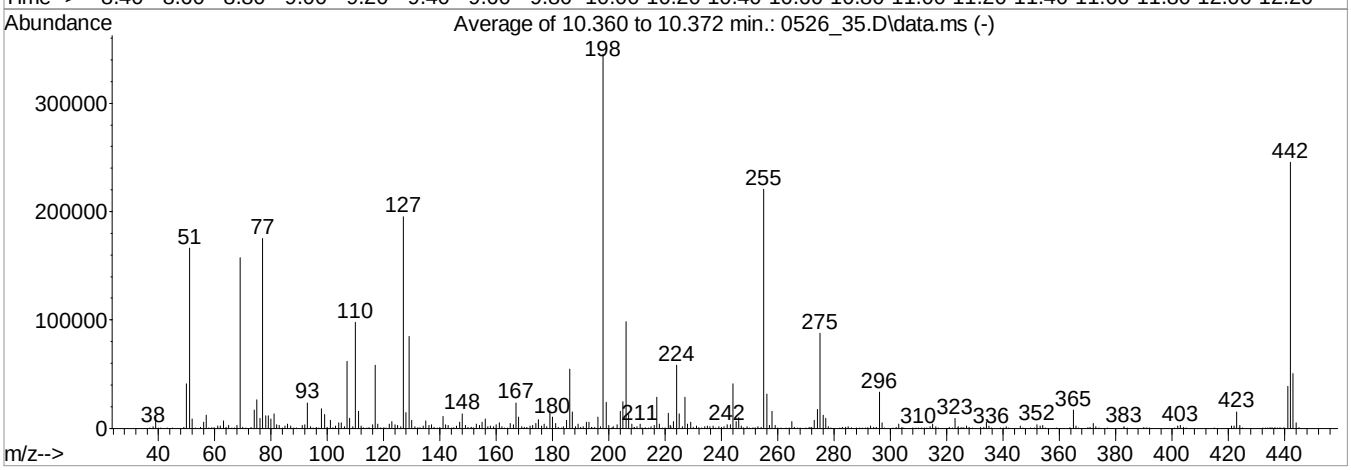
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
37	0526_35	TUNE SVMS 50 PPM 15B11028	TUNEC						1	1	05/27/15 1638	"dftpp tune 14K19964"
38	0526_35T	TUNE SVMS 50 PPM 15B11028								1	05/27/15 1638	
39	0526_36	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
39	0526_36-1	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
39	0526_36-2	ICV SVMS 10K PPB 15D30944	S823E19O						1	1	05/27/15 1657	"8270 PRIMARY CALIBRATION"
40	0526_37	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
40	0526_37-1	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
40	0526_37-2	ICV TCL 10K1 PPB 15B24611	S823E19O						1	1	05/27/15 1721	"8270 TCL CALIBRATION"
41	0526_38	LCS	S823E19O	WG791571	8270	GW			1	0.005	05/27/15 1744	"water 15E04055/15E11539"
42	0526_39	LCSD	S823E19O	WG791571	8270	GW			1	0.005	05/27/15 1807	"water 15E04055/15E11539"

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 35.D
Acq On : 27 May 2015 4:38 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Thu Sep 13 10:14:57 2012





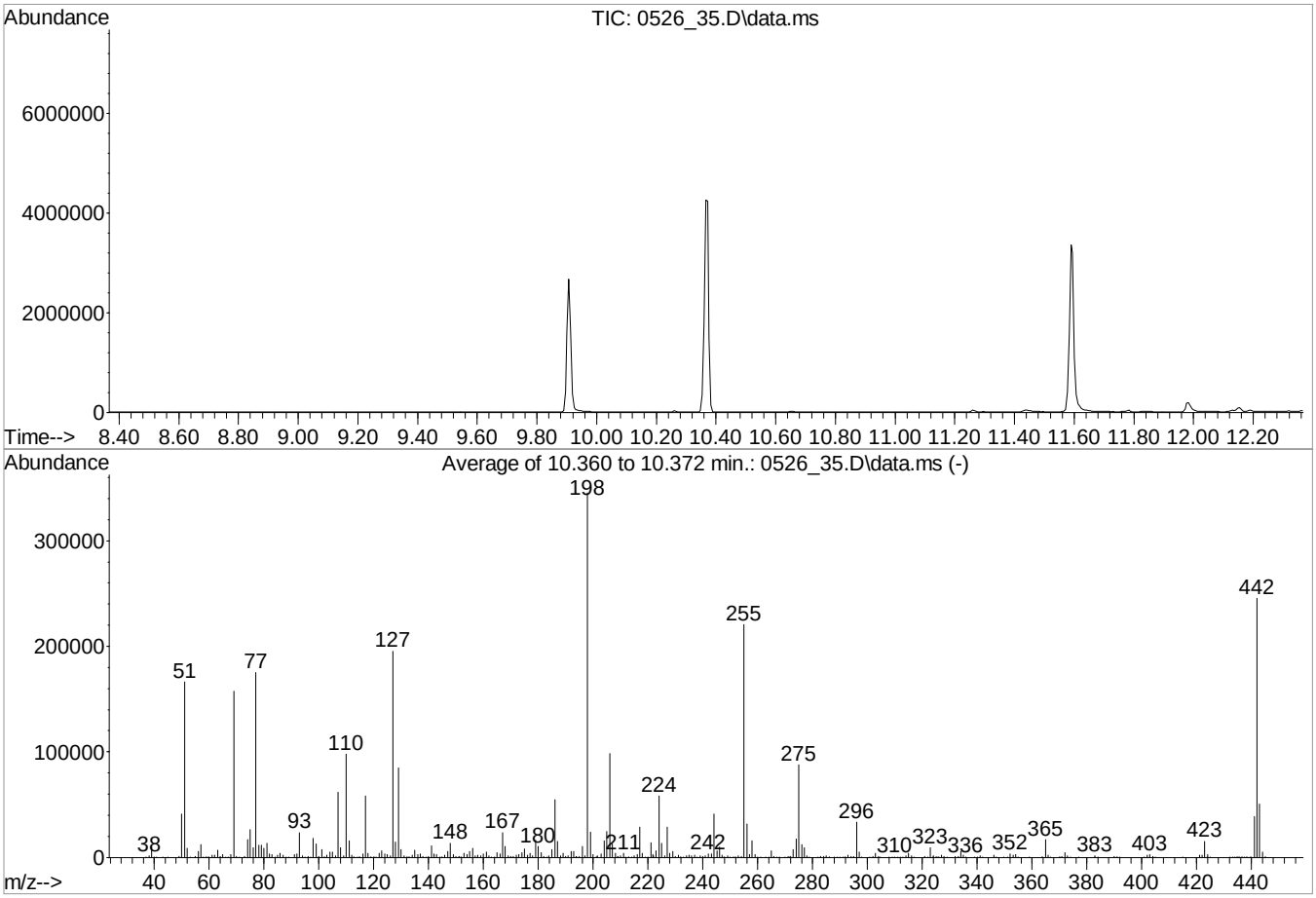
AutoFind: Scans 1279, 1280, 1281; Background Corrected with Scan 1274

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	166109	PASS
68	69	0.00	2	1.6	2483	PASS
69	198	0.00	100	45.5	157261	PASS
70	69	0.00	2	0.6	865	PASS
127	198	40	60	56.6	195475	PASS
197	198	0.00	1	0.4	1360	PASS
198	198	100	100	100.0	345429	PASS
199	198	5	9	6.9	23737	PASS
275	198	10	30	25.4	87837	PASS
365	198	1	100	4.9	16848	PASS
441	443	0.01	100	76.4	38574	PASS
442	198	40	100	71.0	245171	PASS
443	442	17	23	20.6	50472	PASS

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 35.D
Acq On : 27 May 2015 4:38 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TUNED.M
Title :
Last Update : Thu Sep 13 10:14:12 2012



Spectrum Information: Average of 10.360 to 10.372 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.1	166109	PASS
68	69	0.00	2	1.6	2483	PASS
70	69	0.00	2	0.6	865	PASS
127	198	10	80	56.6	195475	PASS
197	198	0.00	2	0.4	1360	PASS
198	198	50	100	100.0	345429	PASS
199	198	5	9	6.9	23737	PASS
275	198	10	60	25.4	87837	PASS
365	198	1	100	4.9	16848	PASS
441	442	0.01	24	15.7	38574	PASS
442	198	50	100	71.0	245171	PASS
443	442	15	24	20.6	50472	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:18:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	68459	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	280379	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	199388	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	372661	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	424348	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	417859	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	97285	9469.2427525 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 47346.21%#		
7) Phenol-d5	4.954	99	134360	9578.7086126 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 47893.54%#		
23) Nitrobenzene-d5	5.854	82	143953	9776.2578366 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 97762.58%#		
44) 2-Fluorobiphenyl	7.742	172	310325	9696.2383688 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 96962.38%#		
67) 2,4,6-Tribromophenol	9.360	330	50593	10300.2047595 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 51501.02%#		
81) p-Terphenyl-d14	11.854	244	499818	9456.1636241 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 94561.64%#		
Target Compounds					Qvalue
2) Pyridine	3.225	79	153897	9302.7302207 ppb	99
3) N-Nitrosodimethylamine	3.201	42	81126	8972.0356018 ppb	95
5) Aniline	5.013	66	73268	9595.6070679 ppb	99
6) bis(2-Chloroethyl)ether	5.054	63	106516	9393.9302607 ppb	96
8) Phenol	4.966	94	136128	8787.1354063 ppb	98
9) Benzaldehyde	4.884	105	59	10.0827901 ppb #	42
10) 2-Chlorophenol	5.125	128	119626	9702.4187370 ppb	93
11) n-Decane	5.125	41	78086	9447.6984735 ppb	99
12) 1,3-Dichlorobenzene	5.266	146	135916	9814.4306534 ppb	97
13) 1,4-Dichlorobenzene	5.331	146	138777	9942.8962468 ppb	98
14) Benzyl Alcohol	5.431	79	107693	10038.4355028 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	131940	9756.3480109 ppb	99
16) bis(2-Chloroisopropyl)...	5.554	121	39507	9661.7306297 ppb #	90
17) 2-Methylphenol	5.531	108	102667	9520.9745824 ppb	99
18) Hexachloroethane	5.813	117	67684	10022.6634615 ppb	99
19) N-Nitrosodi-n-propylamine	5.684	70	63844	9224.3337697 ppb	96
20) 3&4-Methyl phenol	5.678	107	119884	9632.3684202 ppb	92
21) Acetophenone	5.678	105	1235	68.2048281 ppb #	1
24) Nitrobenzene	5.872	77	142074	9741.4562633 ppb	96
25) Isophorone	6.101	82	249696	9518.6229337 ppb	98
26) 2-Nitrophenol	6.195	139	67708	10289.1469167 ppb	94
27) 2,4-Dimethylphenol	6.219	107	132867	9918.9975190 ppb	100
28) bis(2-Chlorethoxy)methane	6.313	93	156962	9566.1253582 ppb	99
29) 2,4-Dichlorophenol	6.442	162	111420	10065.4593733 ppb	98
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.531	180	119346	9770.7613260 ppb	98
32) Naphthalene	6.619	128	388799	9648.3984013 ppb	99
33) 4-Chloroaniline	6.666	65	58277	10073.9186942 ppb	94
34) Hexachloro-1,3-butadiene	6.737	225	84146	10489.1737612 ppb	98
35) Caprolactam	7.178	113	4281	1071.0355043 ppb #	9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:18:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.178	107	121435	9981.2714123 ppb		93
37) 2-Methylnaphthalene	7.354	142	279573	9906.2504261 ppb		98
38) 1-Methylnaphthalene	7.466	142	247606	9928.6440876 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	88337	10020.2168057 ppb		97
42) 2,4,6-Trichlorophenol	7.654	196	86452	10013.3853361 ppb		96
43) 2,4,5-Trichlorophenol	7.701	196	93331	10139.8988758 ppb		93
45) Biphenyl	7.854	154	333984	9458.8081111 ppb		100
46) 2-Chloronaphthalene	7.883	162	275676	9546.5310712 ppb		96
47) 2-Nitroaniline	7.995	138	91960	10129.7186310 ppb		97
48) Acenaphthylene	8.342	152	448606	10031.6477053 ppb		100
49) Dimethyl phthalate	8.172	163	321684	9785.8753617 ppb		96
50) 2,6-Dinitrotoluene	8.248	165	77206	10543.1457314 ppb		94
51) 3-Nitroaniline	8.442	138	79813	11004.6662257 ppb	#	81
52) Acenaphthene	8.531	153	290370	9668.9843666 ppb		98
53) 2,4-Dinitrophenol	8.548	184	33584	9743.6076309 ppb		91
54) Dibenzofuran	8.719	168	417073	9873.5057621 ppb		99
55) 2,4-Dinitrotoluene	8.689	165	105852	10889.0341350 ppb		90
56) 2,3,4,6-Tetrachlorophenol	8.848	232	85354	13262.8109445 ppb		94
57) 4-Nitrophenol	8.625	139	59434	9876.0494199 ppb		94
58) Fluorene	9.095	166	352056	10092.6453982 ppb		98
59) 4-Chlorophenyl-phenyle...	9.078	204	159080	10016.7813880 ppb		98
60) Diethyl phthalate	8.936	149	354219	10051.0839629 ppb		98
61) 4-Nitroaniline	9.107	138	76837	11296.6024452 ppb		94
62) Azobenzene	9.254	77	368815	9698.9714636 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.130	198	56134	9728.7750730 ppb		89
66) N-Nitrosodiphenylamine	9.207	169	290455	9577.7713539 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	94961	9738.9386274 ppb	#	85
69) Hexachlorobenzene	9.695	284	112190	9695.9544546 ppb		96
70) n-octadecane	9.936	55	82792	9293.2287753 ppb		100
71) Pentachlorophenol	9.907	266	58958	9393.8280298 ppb		98
72) Phenanthrene	10.154	178	543872	9462.9596707 ppb		98
73) Anthracene	10.213	178	540463	9772.2671445 ppb		99
74) Carbazole	10.383	167	515568	10611.1244523 ppb		100
75) Di-n-butyl phthalate	10.713	149	717198	10056.4538937 ppb		99
76) 2-nitrodiphenylamine	10.901	167	1244	748.0066195 ppb	#	1
77) Fluoranthene	11.466	202	653536	10205.6055654 ppb		99
79) Benzidine	11.571	184	1219	710.2065157 ppb	#	74
80) Pyrene	11.719	202	704175	9497.9136245 ppb		99
82) Benzylbutyl phthalate	12.360	149	363347	9412.5100906 ppb		94
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.066	228	633074	8857.9583183 ppb		94
85) Chrysene	13.066	228	634933	9887.2772951 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.948	149	543803	9619.1632041 ppb		99
87) Di-n-octyl phthalate	13.671	149	943127	9601.9544797 ppb		100
89) Benzo(b)fluoranthene	14.336	252	651399m	9343.7252085 ppb		
90) Benzo(k)fluoranthene	14.371	252	618822m	9555.0277971 ppb		
91) Benzo(a)pyrene	14.818	252	613890	9624.3706351 ppb		98
92) Indeno(1,2,3-cd)pyrene	16.806	276	651276	9912.1843041 ppb		98
93) Dibenz(a,h)anthracene	16.812	278	540747	9952.7090676 ppb		97
94) Benzo(g,h,i)perylene	17.383	276	559489	10036.1671470 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:18:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

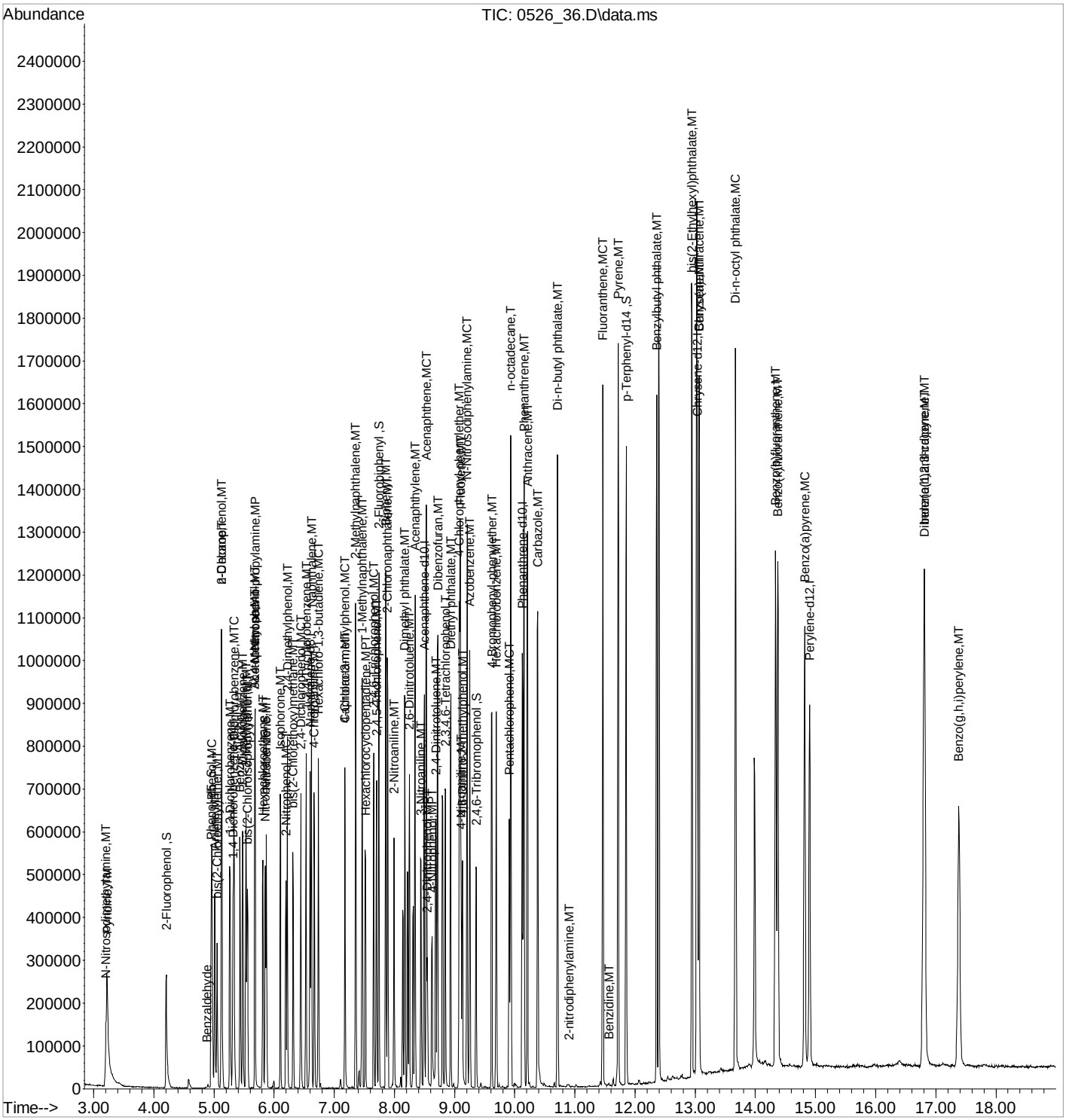
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

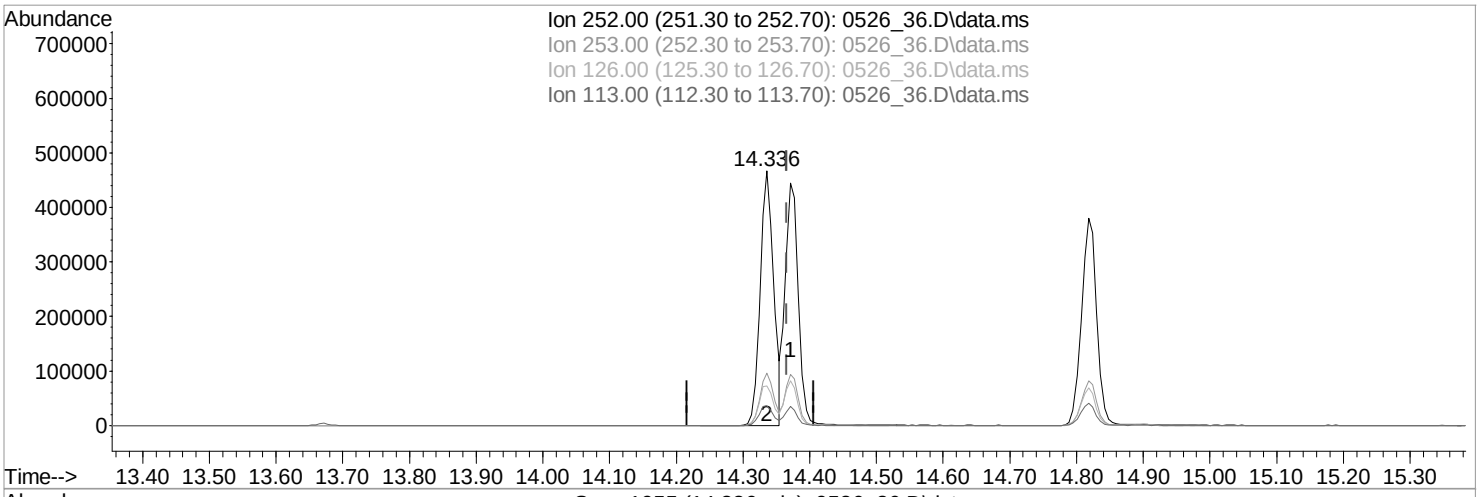
Quant Time: May 27 17:18:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

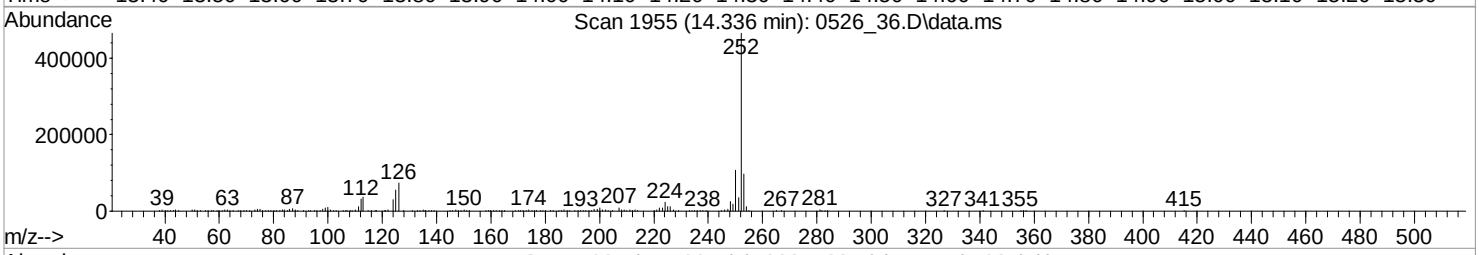


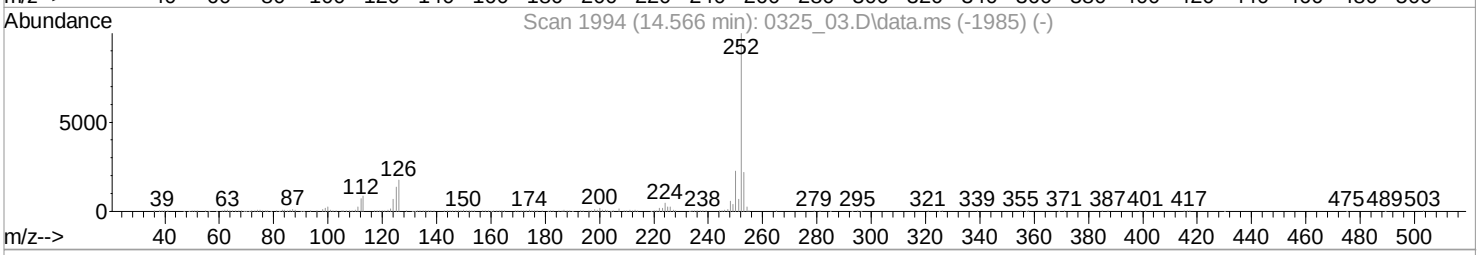
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:17:17 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0526_36.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 9343.7252085 ppb m

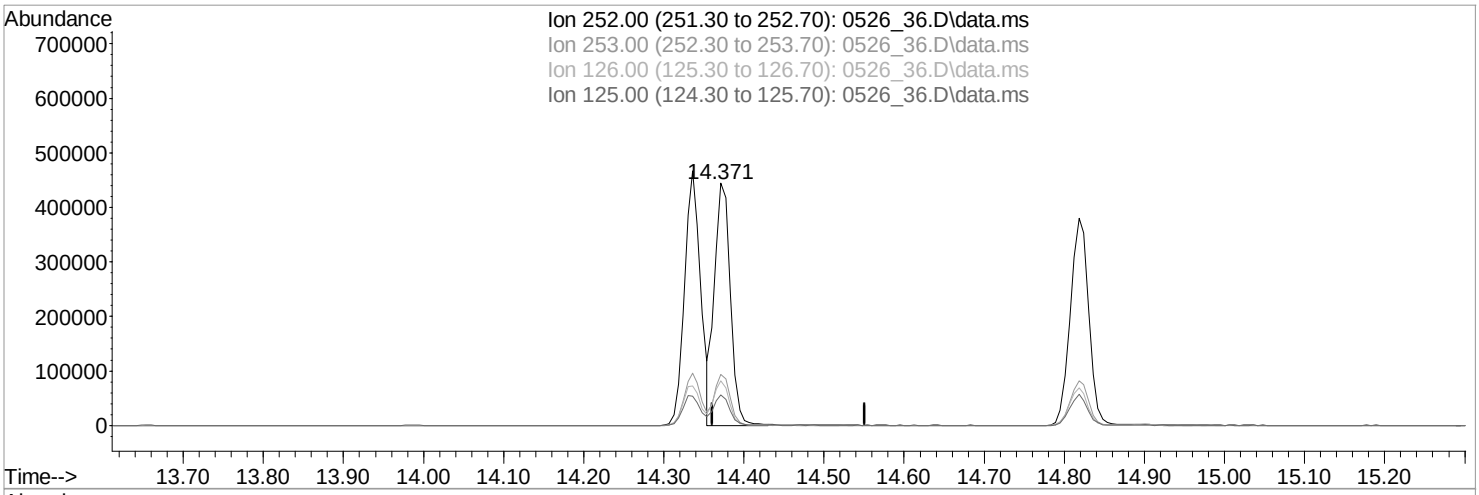
response 651399

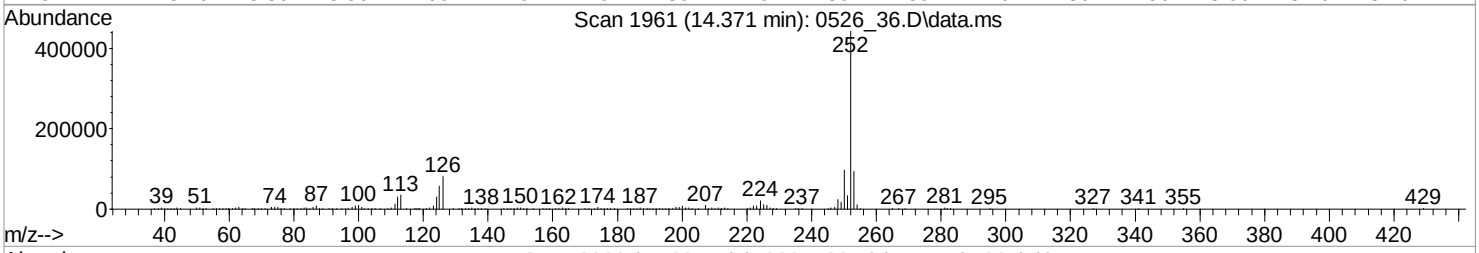
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.62
126.00	16.30	15.67
113.00	8.60	7.82

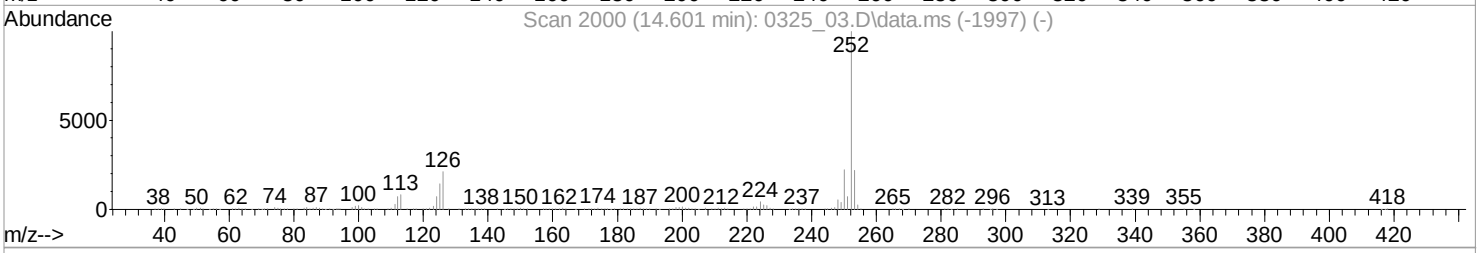
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:17:17 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0526_36.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.371min (-0.029) 9555.0277971 ppb m

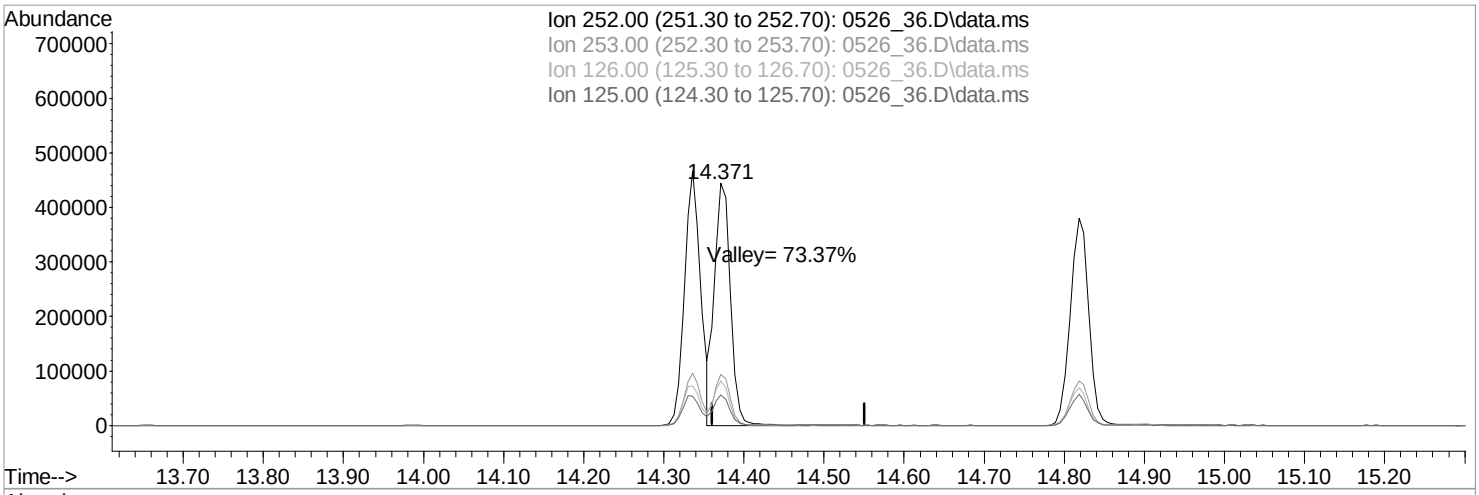
response 618822

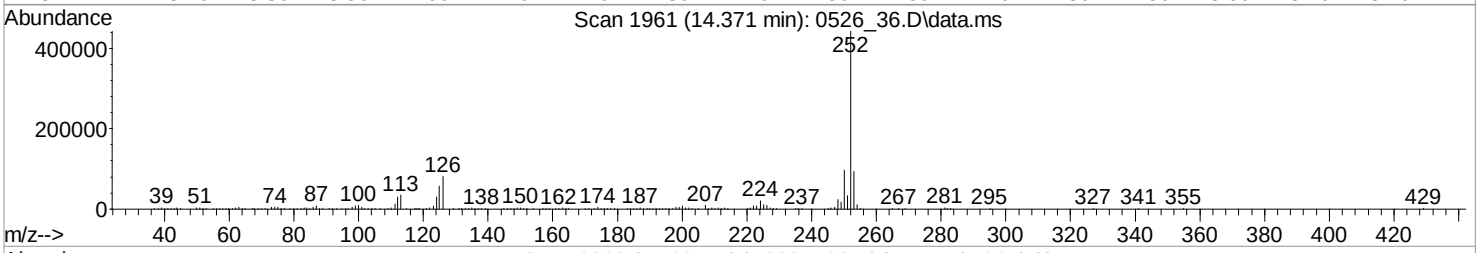
Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.11
126.00	19.40	18.34
125.00	13.30	12.69

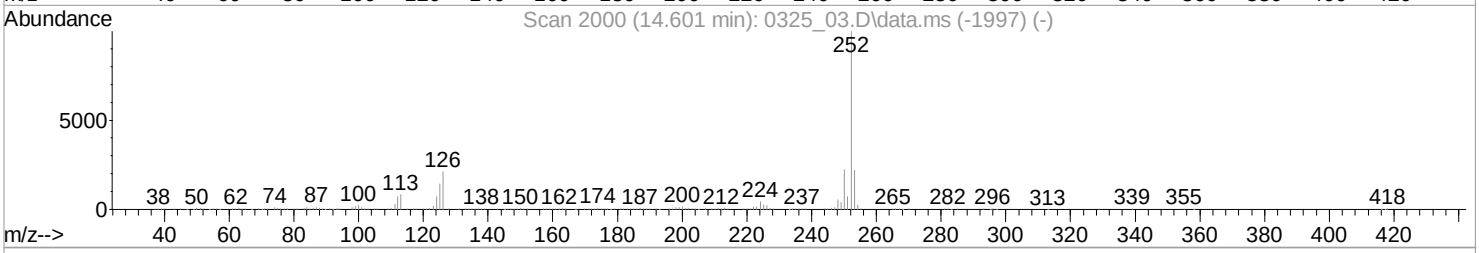
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 36.D
Acq On : 27 May 2015 4:57 pm
Operator : 377
Sample : ICV SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:17:17 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0526_36.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.371min (-0.029) 9555.0277971 ppb m

response 618822

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.11
126.00	19.40	18.34
125.00	13.30	12.69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 37.D
Acq On : 27 May 2015 5:21 pm
Operator : 377
Sample : ICV TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:40:31 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	78857	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	312126	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	221126	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.124	188	408307	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	455005	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	440869	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.184	42	130	12.4814367 ppb #	1
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.978	94	62	3.4744162 ppb #	35
9) Benzaldehyde	4.925	105	64444	9560.9600775 ppb	98
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.172	41	66	6.9324554 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.689	107	1008	70.3109057 ppb #	1
21) Acetophenone	5.695	105	199673	9573.2148081 ppb	99
24) Nitrobenzene	5.884	77	68	4.1882609 ppb #	69
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.295	107	308	20.6546055 ppb #	1
28) bis(2-Chlorethoxy)methane	6.307	93	237	12.9749420 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.301	105	84891	10245.2996680 ppb	99
31) 1,2,4-Trichlorobenzene	6.531	180	435	31.9908169 ppb #	69
32) Naphthalene	6.619	128	287	6.3977538 ppb	70
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.019	113	44440	9987.3029980 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 37.D
Acq On : 27 May 2015 5:21 pm
Operator : 377
Sample : ICV TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:40:31 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
38) 1-Methylnaphthalene	7.531	142	1321	47.5824864 ppb	#	38
39) 1,2,4,5-Tetrachloroben...	7.531	216	129775	10346.1851484 ppb		99
41) Hexachlorocyclopentadiene	0.000		0	N.D.		
42) 2,4,6-Trichlorophenol	0.000		0	N.D.		
43) 2,4,5-Trichlorophenol	0.000		0	N.D.		
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
48) Acenaphthylene	0.000		0	N.D.		
49) Dimethyl phthalate	0.000		0	N.D.		
50) 2,6-Dinitrotoluene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) Acenaphthene	0.000		0	N.D.		
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 2,3,4,6-Tetrachlorophenol	8.842	232	73214	10258.0554548 ppb		95
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	0.000		0	N.D.		
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60) Diethyl phthalate	8.978	149	227	5.8079934 ppb		65
61) 4-Nitroaniline	0.000		0	N.D.		
62) Azobenzene	9.248	77	60	1.4227466 ppb	#	32
63) Atrazine	9.772	200	97136	10038.3645464 ppb		98
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D.		
68) 4-Bromophenyl-phenylether	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) n-octadecane	9.960	55	53	5.4297676 ppb	#	31
71) Pentachlorophenol	9.907	266	5080	1402.0923946 ppb		97
72) Phenanthrene	0.000		0	N.D.		
73) Anthracene	0.000		0	N.D.		
74) Carbazole	10.377	167	73	1.3712778 ppb	#	61
75) Di-n-butyl phthalate	10.707	149	337	4.3128347 ppb		79
76) 2-nitrodiphenylamine	10.907	167	155141	9605.2150440 ppb		98
77) Fluoranthene	0.000		0	N.D.		
79) Benzidine	11.589	184	288587	9283.1258973 ppb		100
80) Pyrene	11.719	202	86	1.0818126 ppb		59
82) Benzylbutyl phthalate	12.366	149	583	14.0850509 ppb	#	1
83) 3,3-Dichlorobenzidine	12.965	252	226669	9696.6740203 ppb		98
84) Benzo(a)anthracene	13.030	228	1136	14.8239341 ppb	#	1
85) Chrysene	13.030	228	1136	16.4980698 ppb		72
86) bis(2-Ethylhexyl)phtha...	12.971	149	2957	48.7812595 ppb	#	37
87) Di-n-octyl phthalate	13.707	149	1311	12.4479589 ppb		48
89) Benzo(b)fluoranthene	14.365	252	126	1.7130250 ppb	#	61
90) Benzo(k)fluoranthene	0.000		0	N.D.		
91) Benzo(a)pyrene	14.842	252	70	1.0401597 ppb	#	51
92) Indeno(1,2,3-cd)pyrene	16.812	276	66	0.9520690 ppb	#	46
93) Dibenz(a,h)anthracene	0.000		0	N.D.		
94) Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 37.D
Acq On : 27 May 2015 5:21 pm
Operator : 377
Sample : ICV TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:40:31 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

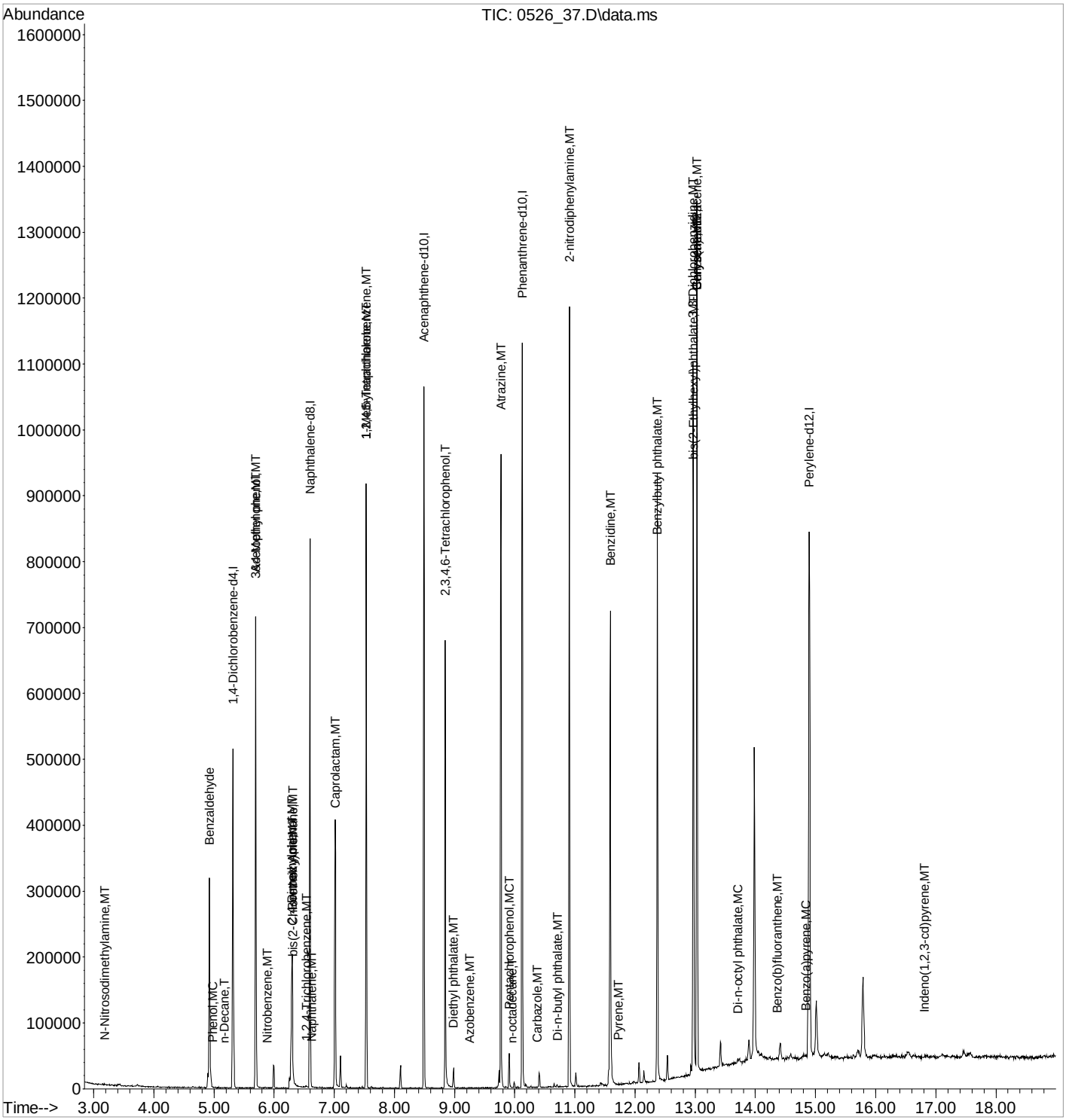
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 37.D
Acq On : 27 May 2015 5:21 pm
Operator : 377
Sample : ICV TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 27 17:40:31 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On : 27 May 2015 5:44 pm
Operator : 377
Sample : LCS 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:12:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	69957	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	286460	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	202029	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	365870	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	429920	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	415362	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	22601	10.7638194 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 53.82%		
7) Phenol-d5	4.954	99	22180	7.7369161 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 38.68%		
23) Nitrobenzene-d5	5.848	82	21079	7.0057306 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 70.06%		
44) 2-Fluorobiphenyl	7.742	172	45741	7.0525712 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 70.53%		
67) 2,4,6-Tribromophenol	9.354	330	16357	16.9596243 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 84.80%		
81) p-Terphenyl-d14	11.848	244	69683	6.5063053 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 65.06%		
Target Compounds					Qvalue
2) Pyridine	3.225	79	43011	12.7212325 ppb #	95
3) N-Nitrosodimethylamine	3.201	42	29570	16.0011659 ppb	90
5) Aniline	5.007	66	37929	24.3051827 ppb	97
6) bis(2-Chloroethyl)ether	5.048	63	77493	33.4398511 ppb	98
8) Phenol	4.966	94	56403	17.8144097 ppb	95
9) Benzaldehyde	4.925	105	36468	30.4936942 ppb	98
10) 2-Chlorophenol	5.125	128	89153	35.3801584 ppb	93
11) n-Decane	5.125	41	43657	25.8449749 ppb	99
12) 1,3-Dichlorobenzene	5.260	146	79464	28.0759414 ppb	99
13) 1,4-Dichlorobenzene	5.331	146	80464	28.2076177 ppb	96
14) Benzyl Alcohol	5.431	79	64089	29.2301761 ppb	98
15) 1,2-Dichlorobenzene	5.478	146	79556	28.7841309 ppb	98
16) bis(2-Chloroisopropyl)...	5.554	121	28570	34.1869606 ppb #	70
17) 2-Methylphenol	5.531	108	70864	32.1547824 ppb	99
18) Hexachloroethane	5.807	117	37677	27.2987540 ppb	96
19) N-Nitrosodi-n-propylamine	5.678	70	46743	33.0446290 ppb	92
20) 3&4-Methyl phenol	5.678	107	88591	34.8281850 ppb	91
21) Acetophenone	5.695	105	125991	34.0452919 ppb #	78
24) Nitrobenzene	5.872	77	108486	36.4027734 ppb	97
25) Isophorone	6.101	82	196311	36.6234010 ppb	98
26) 2-Nitrophenol	6.190	139	54491	40.5243129 ppb	99
27) 2,4-Dimethylphenol	6.219	107	104052	38.0147890 ppb	98
28) bis(2-Chlorethoxy)methane	6.313	93	113340	33.8046350 ppb	97
29) 2,4-Dichlorophenol	6.442	162	89711	39.6613637 ppb	98
30) Benzoic Acid	6.260	105	7187	7.3172302 ppb	84
31) 1,2,4-Trichlorobenzene	6.531	180	76773	30.7595904 ppb	99
32) Naphthalene	6.619	128	260912	31.6866000 ppb	99
33) 4-Chloroaniline	6.666	65	39848	33.7100411 ppb	98
34) Hexachloro-1,3-butadiene	6.731	225	46712	28.4962535 ppb	97
35) Caprolactam	7.007	113	5699	6.9776438 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On : 27 May 2015 5:44 pm
Operator : 377
Sample : LCS 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:12:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	7.172	107	99605	40.0658746 ppb	96
37) 2-Methylnaphthalene	7.354	142	187043	32.4344871 ppb	98
38) 1-Methylnaphthalene	7.460	142	198557	38.9641745 ppb	99
39) 1,2,4,5-Tetrachloroben...	7.531	216	90992	39.5210417 ppb	96
41) Hexachlorocyclopentadiene	7.513	237	37084	20.7575624 ppb	96
42) 2,4,6-Trichlorophenol	7.654	196	70742	40.4332383 ppb	98
43) 2,4,5-Trichlorophenol	7.701	196	75997	40.7436057 ppb	93
45) Biphenyl	7.854	154	263585	36.8372119 ppb	100
46) 2-Chloronaphthalene	7.884	162	210734	36.0111134 ppb	98
47) 2-Nitroaniline	7.989	138	73380	39.8870056 ppb	98
48) Acenaphthylene	8.336	152	331834	36.6170526 ppb	99
49) Dimethyl phthalate	8.166	163	260724	39.1387127 ppb	95
50) 2,6-Dinitrotoluene	8.248	165	59130	39.8457810 ppb	97
51) 3-Nitroaniline	8.436	138	55823	37.9814656 ppb	90
52) Acenaphthene	8.525	153	215696	35.4426766 ppb	98
53) 2,4-Dinitrophenol	8.548	184	23278	36.2465971 ppb	98
54) Dibenzofuran	8.713	168	321906	37.6048350 ppb	99
55) 2,4-Dinitrotoluene	8.683	165	84477	42.8828934 ppb	99
56) 2,3,4,6-Tetrachlorophenol	8.842	232	62176	47.6748995 ppb	97
57) 4-Nitrophenol	8.619	139	24457	20.0542667 ppb	97
58) Fluorene	9.089	166	266645	37.7208974 ppb	99
59) 4-Chlorophenyl-phenyle...	9.078	204	122741	38.1379704 ppb	95
60) Diethyl phthalate	8.931	149	290751	40.7115439 ppb	98
61) 4-Nitroaniline	9.107	138	61840	44.8644381 ppb	90
62) Azobenzene	9.248	77	296618	38.4919502 ppb	99
63) Atrazine	9.772	200	80679	45.6288323 ppb	96
65) 4,6-Dinitro-2-methylph...	9.130	198	48133	42.9727385 ppb	95
66) N-Nitrosodiphenylamine	9.201	169	226375	38.0164203 ppb	99
68) 4-Bromophenyl-phenylether	9.613	248	73892	38.5941002 ppb	94
69) Hexachlorobenzene	9.689	284	91563	40.3007920 ppb	96
70) n-octadecane	9.930	55	52612	30.0760096 ppb	99
71) Pentachlorophenol	9.907	266	47075	38.8707939 ppb	95
72) Phenanthrene	10.148	178	418812	37.1113330 ppb	97
73) Anthracene	10.207	178	424258	39.0675838 ppb	99
74) Carbazole	10.377	167	415820	43.5850930 ppb	100
75) Di-n-butyl phthalate	10.707	149	577962	41.2726383 ppb	99
76) 2-nitrodiphenylamine	10.907	167	129292	44.9006943 ppb	99
77) Fluoranthene	11.460	202	519217	41.2928935 ppb	100
79) Benzidine	11.589	184	125664	23.2001732 ppb	99
80) Pyrene	11.719	202	547316	36.4326090 ppb	99
82) Benzylbutyl phthalate	12.354	149	298493	38.1612456 ppb	97
83) 3,3-Dichlorobenzidine	12.966	252	179109	40.5458679 ppb	98
84) Benzo(a)anthracene	13.060	228	484618	33.4644129 ppb	93
85) Chrysene	13.060	228	485961	37.3469162 ppb	98
86) bis(2-Ethylhexyl)phtha...	12.942	149	445438	38.8854808 ppb	100
87) Di-n-octyl phthalate	13.666	149	763433	38.3587908 ppb	100
89) Benzo(b)fluoranthene	14.330	252	522159m	37.6746079 ppb	
90) Benzo(k)fluoranthene	14.365	252	504285m	39.1665450 ppb	
91) Benzo(a)pyrene	14.812	252	496752	39.1736833 ppb	97
92) Indeno(1,2,3-cd)pyrene	16.795	276	535632	41.0056605 ppb	98
93) Dibenz(a,h)anthracene	16.801	278	442129	40.9325872 ppb	99
94) Benzo(g,h,i)perylene	17.377	276	453534	40.9222201 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On : 27 May 2015 5:44 pm
Operator : 377
Sample : LCS 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:12:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

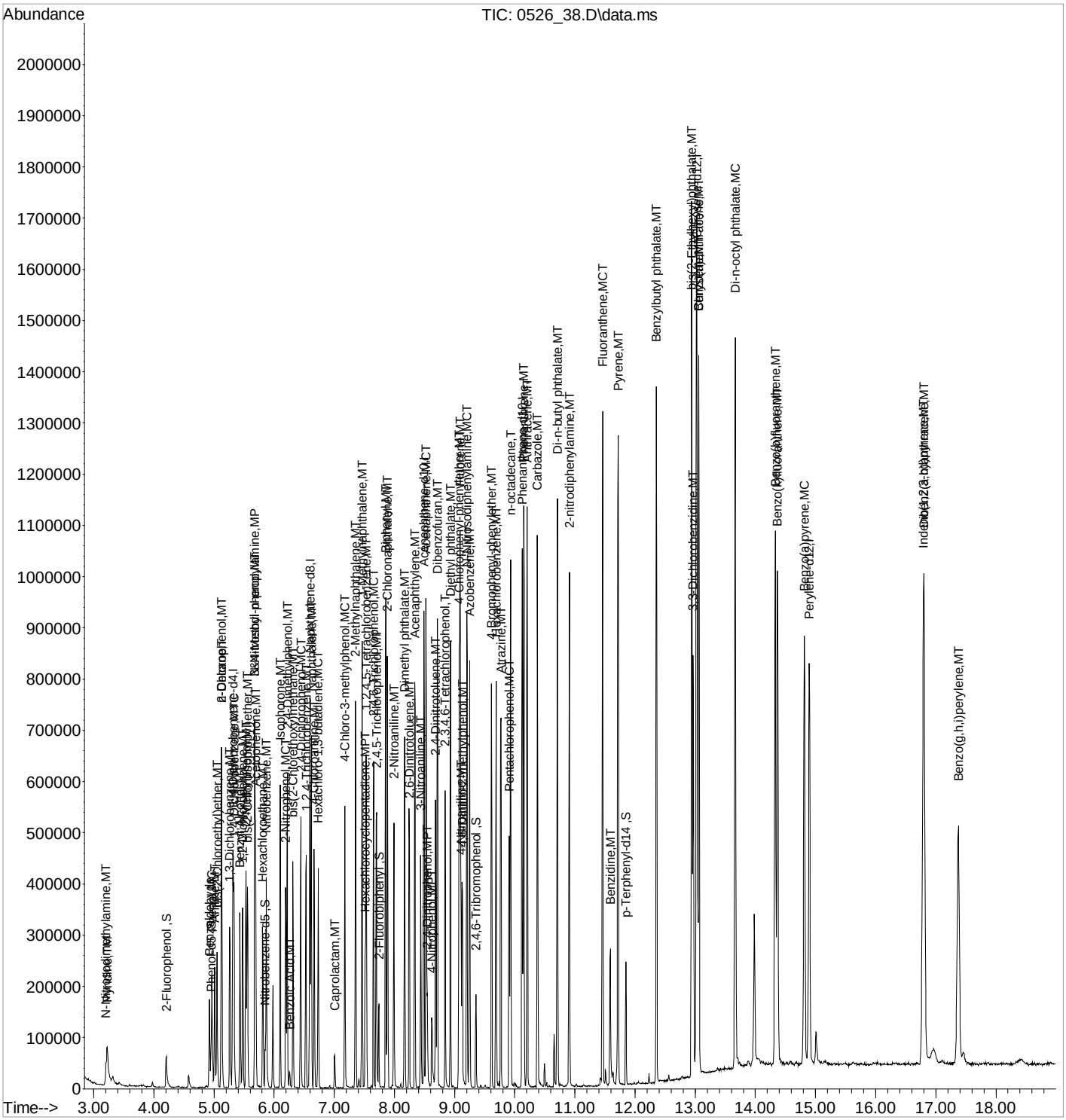
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On : 27 May 2015 5:44 pm
Operator : 377
Sample : LCS 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 11 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:12:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On    : 27 May 2015   5:44 pm
Operator  : 377
Sample    : LCS 1x WG791571 100-0.5
Misc      : water 15E04055/15E11539
ALS Vial  : 11   Sample Multiplier: 0.005
InstName  : BNAMS23

Quant Time: May 27 18:30:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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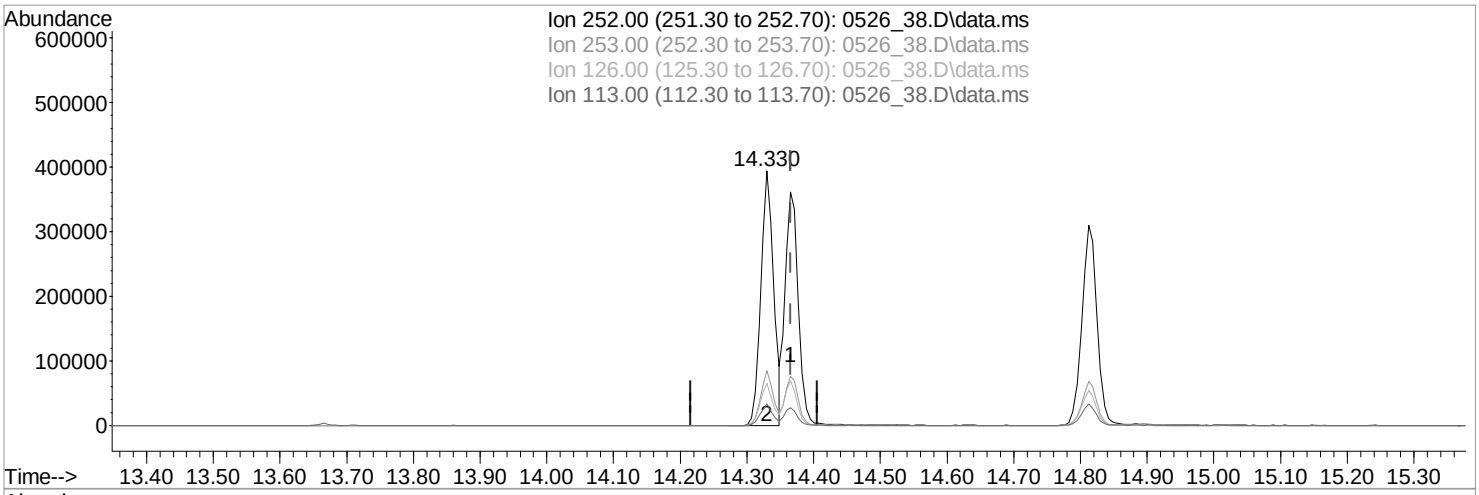

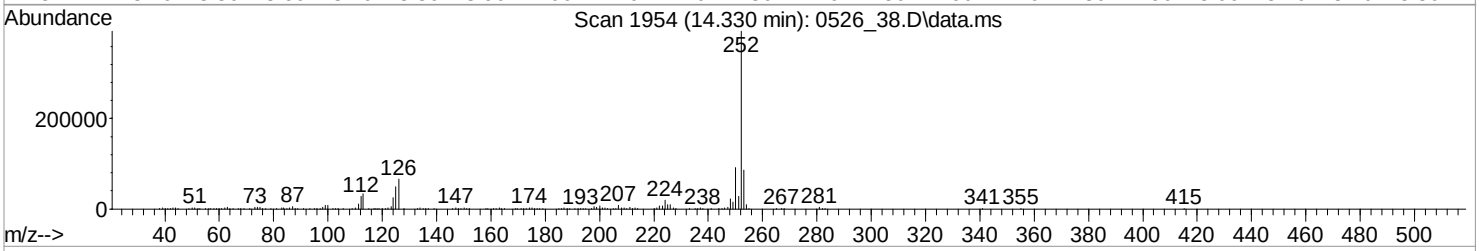

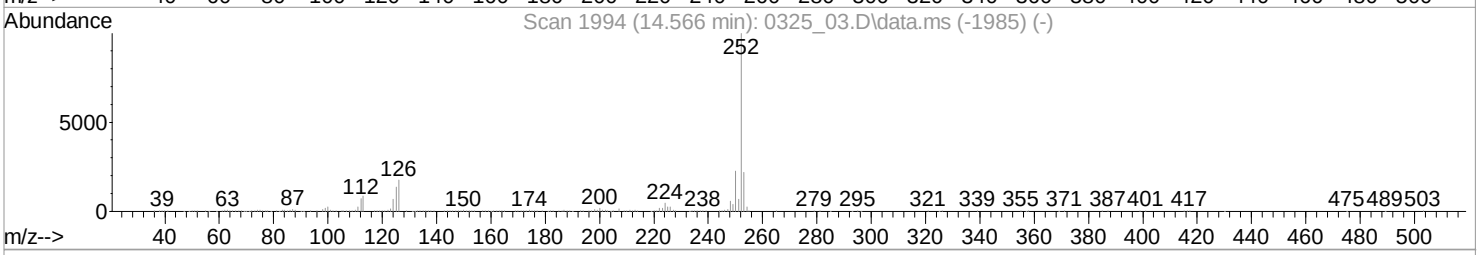

TIC: 0526_38.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (-0.035) 37.6746079 ppb m

response 522159

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.64
126.00	16.30	16.60
113.00	8.60	8.58

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052615\
Data File : 0526 38.D
Acq On    : 27 May 2015   5:44 pm
Operator  : 377
Sample    : LCS 1x WG791571 100-0.5
Misc      : water 15E04055/15E11539
ALS Vial  : 11   Sample Multiplier: 0.005
InstName  : BNAMS23

Quant Time: May 27 18:30:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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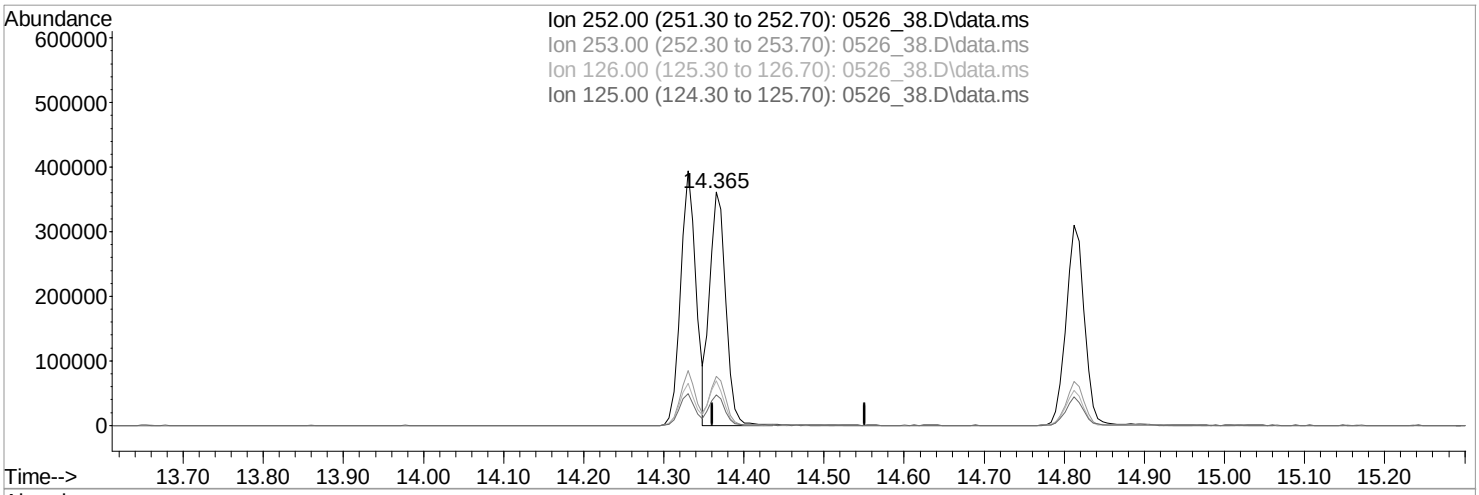

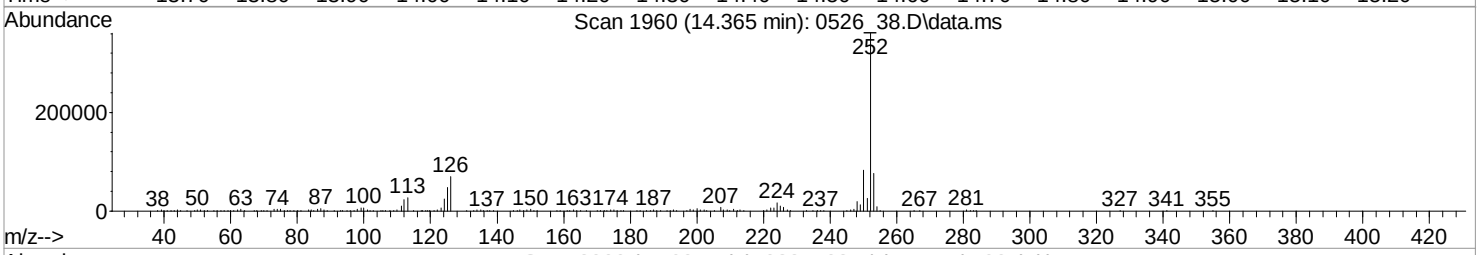

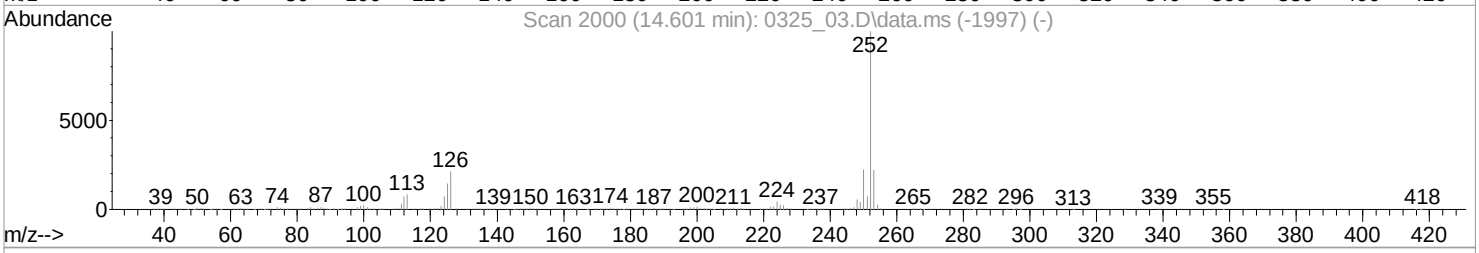

TIC: 0526_38.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.365min (-0.035) 39.1665450 ppb m

response 504285

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.09
126.00	19.40	19.16
125.00	13.30	13.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On : 27 May 2015 6:07 pm
Operator : 377
Sample : LCSD 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:20 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	68038	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	280614	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	201435	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	366109	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	427772	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	417206	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	15743	7.7091390 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 38.55%		
7) Phenol-d5	4.954	99	17794	6.3820407 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 31.91%		
23) Nitrobenzene-d5	5.848	82	19648	6.6661707 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 66.66%		
44) 2-Fluorobiphenyl	7.742	172	44384	6.8635223 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 68.64%		
67) 2,4,6-Tribromophenol	9.354	330	16515	17.1122670 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 85.56%		
81) p-Terphenyl-d14	11.848	244	69244	6.4977806 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 64.98%		
Target Compounds					Qvalue
2) Pyridine	3.225	79	43404	13.1995475 ppb	94
3) N-Nitrosodimethylamine	3.202	42	30761	17.1151374 ppb	88
5) Aniline	5.007	66	35354	23.2940870 ppb	97
6) bis(2-Chloroethyl)ether	5.049	63	70899	31.4573119 ppb	96
8) Phenol	4.966	94	47486	15.4210683 ppb	97
9) Benzaldehyde	4.919	105	31033	26.6809626 ppb	98
10) 2-Chlorophenol	5.119	128	75245	30.7030200 ppb	98
11) n-Decane	5.125	41	45457	27.6695843 ppb	98
12) 1,3-Dichlorobenzene	5.260	146	80880	29.3822253 ppb	99
13) 1,4-Dichlorobenzene	5.331	146	81869	29.5096402 ppb	99
14) Benzyl Alcohol	5.431	79	61558	28.8676928 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	81646	30.3734925 ppb	98
16) bis(2-Chloroisopropyl)...	5.554	121	28159	34.6455226 ppb #	88
17) 2-Methylphenol	5.531	108	65711	30.6575628 ppb	100
18) Hexachloroethane	5.807	117	39524	29.4446935 ppb	99
19) N-Nitrosodi-n-propylamine	5.678	70	44796	32.5614077 ppb	94
20) 3&4-Methyl phenol	5.678	107	83816	33.8803437 ppb	90
21) Acetophenone	5.696	105	122181	33.9469572 ppb #	79
24) Nitrobenzene	5.872	77	103273	35.3754703 ppb	94
25) Isophorone	6.101	82	193626	36.8750285 ppb	98
26) 2-Nitrophenol	6.190	139	51060	38.7638001 ppb	97
27) 2,4-Dimethylphenol	6.219	107	98363	36.6850040 ppb	98
28) bis(2-Chlorethoxy)methane	6.313	93	111134	33.8372174 ppb	99
29) 2,4-Dichlorophenol	6.443	162	83572	37.7170219 ppb	96
30) Benzoic Acid	6.260	105	13407	11.5312823 ppb	88
31) 1,2,4-Trichlorobenzene	6.531	180	76308	31.2102150 ppb	100
32) Naphthalene	6.619	128	259020	32.1121616 ppb	99
33) 4-Chloroaniline	6.666	65	37148	32.0806267 ppb	96
34) Hexachloro-1,3-butadiene	6.731	225	50383	31.3760291 ppb	97
35) Caprolactam	7.007	113	5524	6.9042811 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On : 27 May 2015 6:07 pm
Operator : 377
Sample : LCSD 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:20 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	7.178	107	94234	38.6950816 ppb	95
37) 2-Methylnaphthalene	7.354	142	185831	32.8956439 ppb	99
38) 1-Methylnaphthalene	7.460	142	191334	38.3289641 ppb	99
39) 1,2,4,5-Tetrachloroben...	7.531	216	85303	37.8219686 ppb	99
41) Hexachlorocyclopentadiene	7.513	237	34136	19.1637806 ppb	96
42) 2,4,6-Trichlorophenol	7.654	196	67567	38.7324179 ppb	99
43) 2,4,5-Trichlorophenol	7.701	196	72524	38.9963125 ppb	96
45) Biphenyl	7.854	154	256335	35.9296305 ppb	99
46) 2-Chloronaphthalene	7.884	162	206988	35.4752846 ppb	99
47) 2-Nitroaniline	7.990	138	72547	39.5504989 ppb	98
48) Acenaphthylene	8.342	152	327121	36.2034291 ppb	99
49) Dimethyl phthalate	8.172	163	258338	38.8948948 ppb	98
50) 2,6-Dinitrotoluene	8.248	165	58315	39.4124584 ppb	99
51) 3-Nitroaniline	8.437	138	53746	36.6761277 ppb	91
52) Acenaphthene	8.525	153	213494	35.1842969 ppb	99
53) 2,4-Dinitrophenol	8.548	184	23664	36.7753234 ppb	95
54) Dibenzofuran	8.713	168	316287	37.0573824 ppb	99
55) 2,4-Dinitrotoluene	8.684	165	82825	42.1682739 ppb	97
56) 2,3,4,6-Tetrachlorophenol	8.842	232	60110	46.2266601 ppb	96
57) 4-Nitrophenol	8.625	139	15385	12.6526031 ppb	95
58) Fluorene	9.089	166	265848	37.7190504 ppb	100
59) 4-Chlorophenyl-phenyle...	9.078	204	119452	37.2254647 ppb	96
60) Diethyl phthalate	8.931	149	290000	40.7261292 ppb	99
61) 4-Nitroaniline	9.107	138	60113	43.7401166 ppb	94
62) Azobenzene	9.248	77	287259	37.3873633 ppb	99
63) Atrazine	9.772	200	80709	45.7804013 ppb	95
65) 4,6-Dinitro-2-methylph...	9.131	198	45312	40.6560478 ppb	97
66) N-Nitrosodiphenylamine	9.201	169	225744	37.8857046 ppb	99
68) 4-Bromophenyl-phenylether	9.613	248	73955	38.6017892 ppb	95
69) Hexachlorobenzene	9.689	284	88584	38.9641539 ppb	98
70) n-octadecane	9.931	55	51700	29.5353650 ppb	96
71) Pentachlorophenol	9.907	266	45652	37.7822824 ppb	98
72) Phenanthrene	10.148	178	412027	36.4862735 ppb	99
73) Anthracene	10.207	178	426807	39.2766502 ppb	99
74) Carbazole	10.378	167	415203	43.4920102 ppb	100
75) Di-n-butyl phthalate	10.707	149	572571	40.8609716 ppb	100
76) 2-nitrodiphenylamine	10.907	167	125930	43.7937593 ppb	98
77) Fluoranthene	11.460	202	521499	41.4473041 ppb	99
79) Benzidine	11.589	184	84238	16.7252039 ppb	99
80) Pyrene	11.719	202	545553	36.4976054 ppb	99
82) Benzylbutyl phthalate	12.354	149	296664	38.1178620 ppb	99
83) 3,3-Dichlorobenzidine	12.966	252	185726	42.2549111 ppb	98
84) Benzo(a)anthracene	13.060	228	493621	34.2572575 ppb	94
85) Chrysene	13.060	228	494805	38.2175378 ppb	99
86) bis(2-Ethylhexyl)phtha...	12.942	149	424278	37.2242552 ppb	99
87) Di-n-octyl phthalate	13.666	149	737471	37.2403901 ppb	99
89) Benzo(b)fluoranthene	14.330	252	519217m	37.2967589 ppb	
90) Benzo(k)fluoranthene	14.366	252	502137m	38.8273412 ppb	
91) Benzo(a)pyrene	14.813	252	486620	38.2050660 ppb	97
92) Indeno(1,2,3-cd)pyrene	16.795	276	523355	39.8887008 ppb	97
93) Dibenz(a,h)anthracene	16.807	278	428344	39.4810867 ppb	97
94) Benzo(g,h,i)perylene	17.377	276	444811	39.9577542 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On : 27 May 2015 6:07 pm
Operator : 377
Sample : LCSD 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 12 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:20 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On : 27 May 2015 6:07 pm
Operator : 377
Sample : LCSD 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
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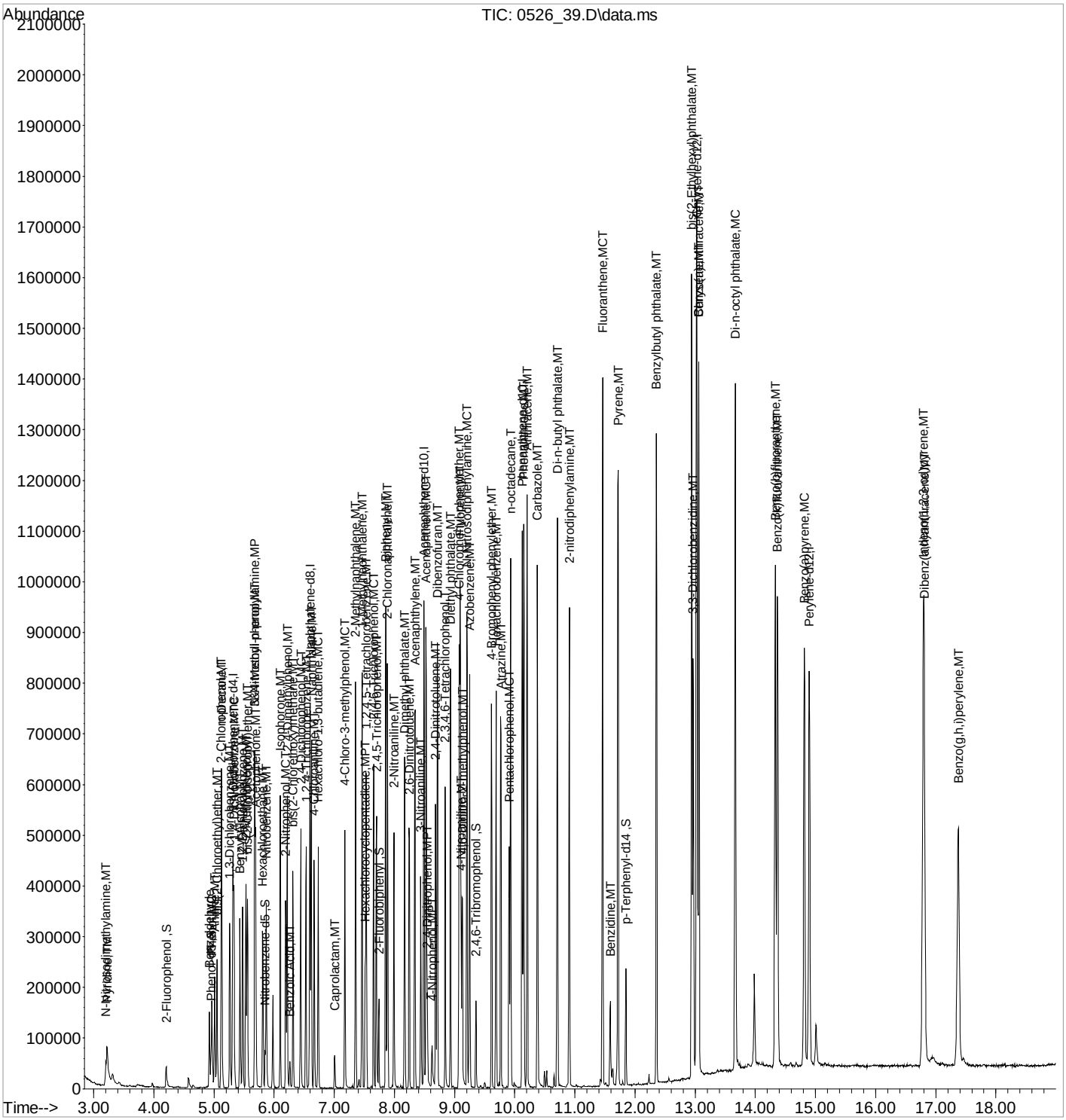
Quant Time: May 28 11:13:20 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On    : 27 May 2015   6:07 pm
Operator  : 377
Sample    : LCSD 1x WG791571 100-0.5
Misc      : water 15E04055/15E11539
ALS Vial  : 12   Sample Multiplier: 0.005
InstName  : BNAMS23

Quant Time: May 27 18:30:39 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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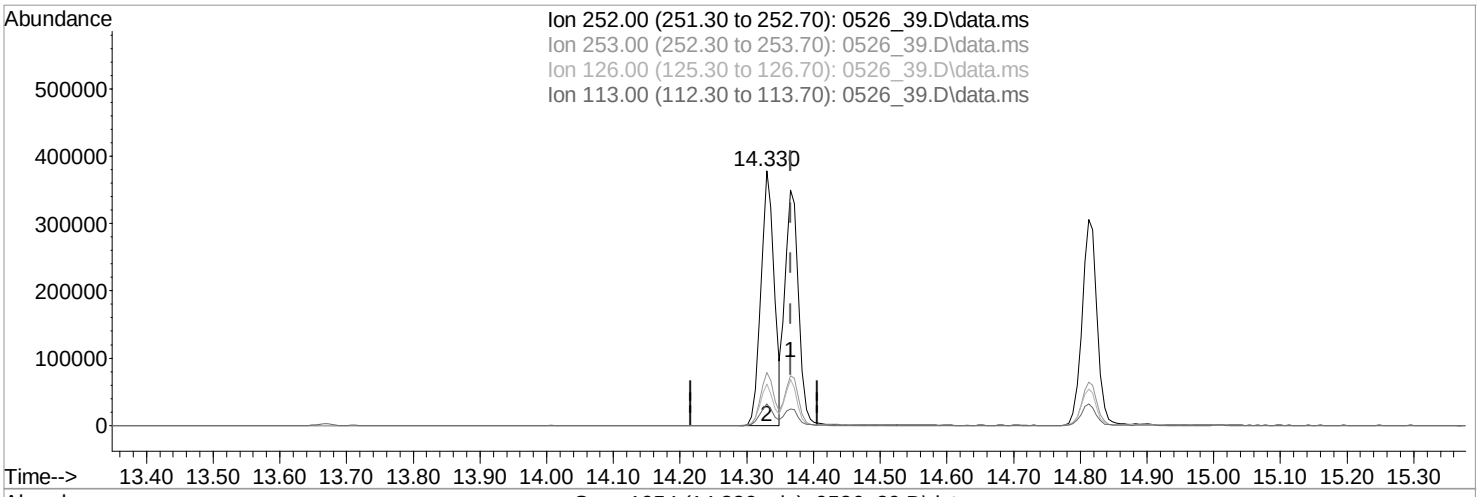
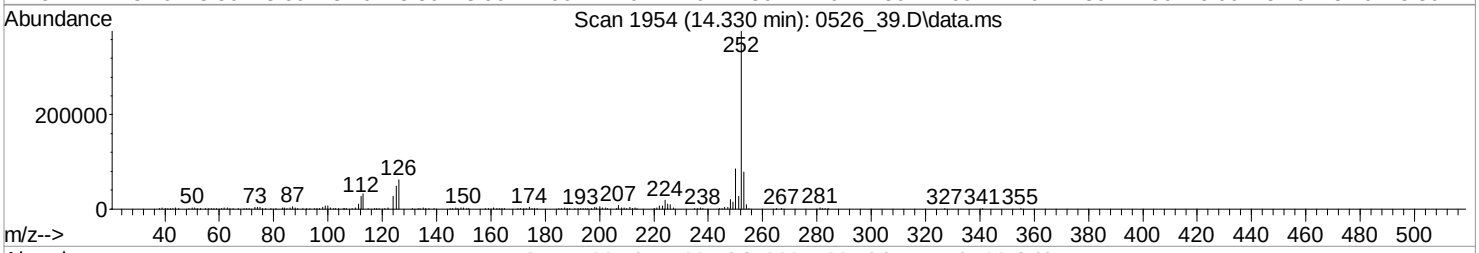
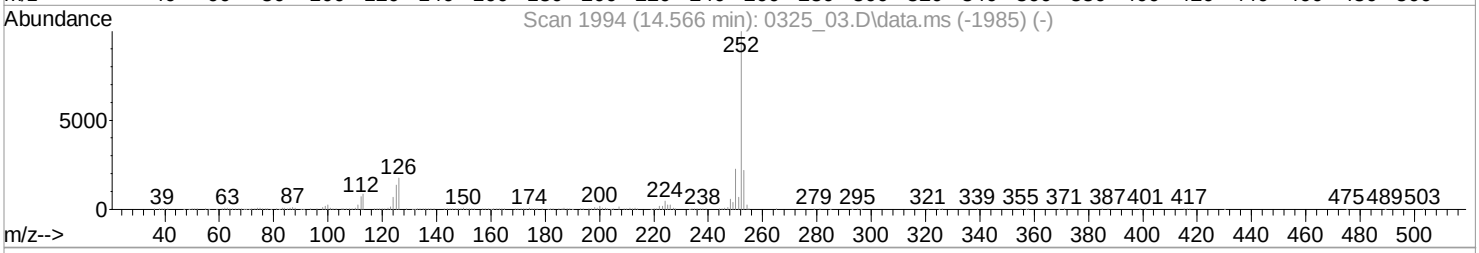






TIC: 0526_39.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (-0.035) 37.2967589 ppb m

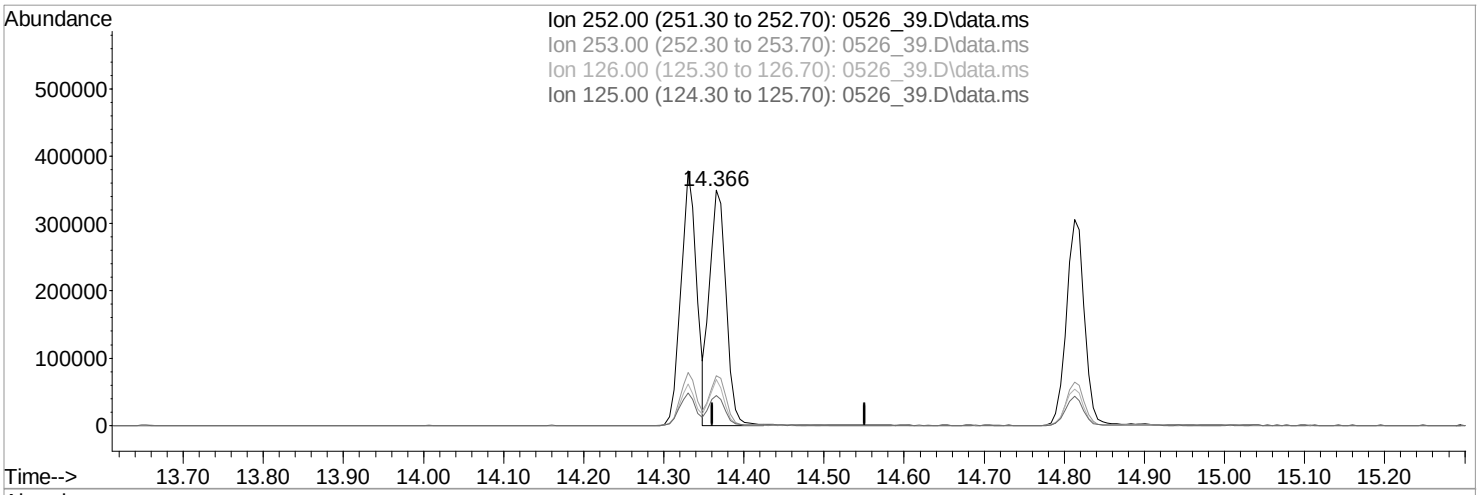
response 519217

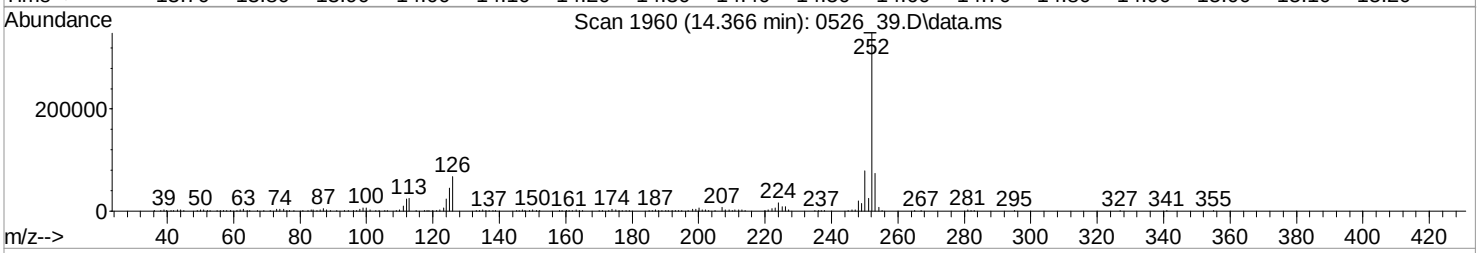
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.87
126.00	16.30	16.33
113.00	8.60	8.41

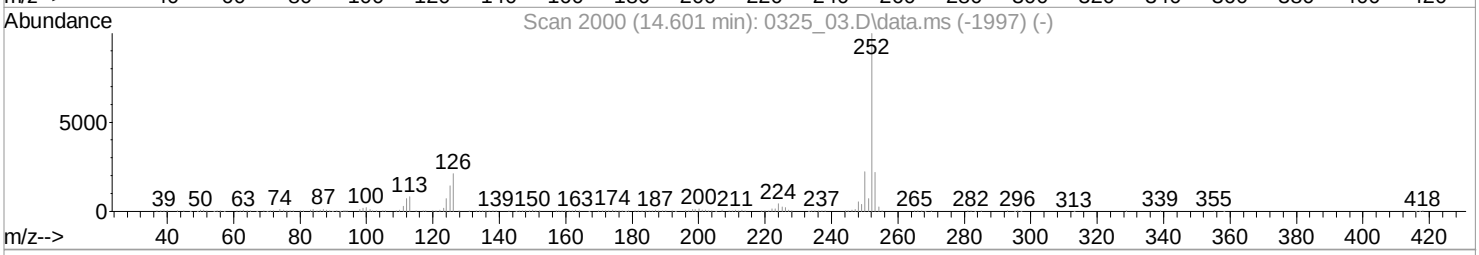
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\052615\
Data File : 0526 39.D
Acq On    : 27 May 2015   6:07 pm
Operator  : 377
Sample    : LCSD 1x WG791571 100-0.5
Misc      : water 15E04055/15E11539
ALS Vial  : 12   Sample Multiplier: 0.005
InstName  : BNAMS23

Quant Time: May 27 18:30:39 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0526_39.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.366min (-0.035) 38.8273412 ppb m

response 502137

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.10
126.00	19.40	19.41
125.00	13.30	12.84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 40.D
Acq On : 27 May 2015 6:31 pm
Operator : 377
Sample : BLANK 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:51 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	69286	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	274295	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	194287	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	350561	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	384104	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	371716	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	28969	13.9302188 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 69.65%		
7) Phenol-d5	4.954	99	21103	7.4325225 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 37.16%		
23) Nitrobenzene-d5	5.848	82	18840	6.5392873 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 65.39%		
44) 2-Fluorobiphenyl	7.742	172	42307	6.7830345 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 67.83%		
67) 2,4,6-Tribromophenol	9.354	330	13545	14.6573273 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 73.29%		
81) p-Terphenyl-d14	11.848	244	62717	6.5543812 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 65.54%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.190	42	54	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.125	41	1028	0.6144705 ppb #	86
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.695	105	363	N.D.	
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 40.D
Acq On : 27 May 2015 6:31 pm
Operator : 377
Sample : BLANK 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:51 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	0.000		0	N.D.	
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	8.166	163	895	0.1397071 ppb	69
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	8.931	149	209	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	0.000		0	N.D.	
63) Atrazine	0.000		0	N.D.	
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.972	55	65	N.D.	
71) Pentachlorophenol	0.000		0	N.D.	
72) Phenanthrene	10.125	178	58	N.D.	
73) Anthracene	0.000		0	N.D.	
74) Carbazole	0.000		0	N.D.	
75) Di-n-butyl phthalate	10.707	149	2644	0.1970551 ppb	89
76) 2-nitrodiphenylamine	0.000		0	N.D.	
77) Fluoranthene	0.000		0	N.D.	
79) Benzidine	0.000		0	N.D.	
80) Pyrene	0.000		0	N.D.	
82) Benzylbutyl phthalate	12.377	149	139	N.D.	
83) 3,3-Dichlorobenzidine	0.000		0	N.D.	
84) Benzo(a)anthracene	13.030	228	1282	N.D.	
85) Chrysene	13.030	228	1282	N.D.	
86) bis(2-Ethylhexyl)phtha...	12.942	149	728	N.D.	
87) Di-n-octyl phthalate	13.713	149	1535	N.D.	
89) Benzo(b)fluoranthene	14.265	252	57	N.D.	
90) Benzo(k)fluoranthene	0.000		0	N.D.	
91) Benzo(a)pyrene	0.000		0	N.D. d	
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 40.D
Acq On : 27 May 2015 6:31 pm
Operator : 377
Sample : BLANK 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:51 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

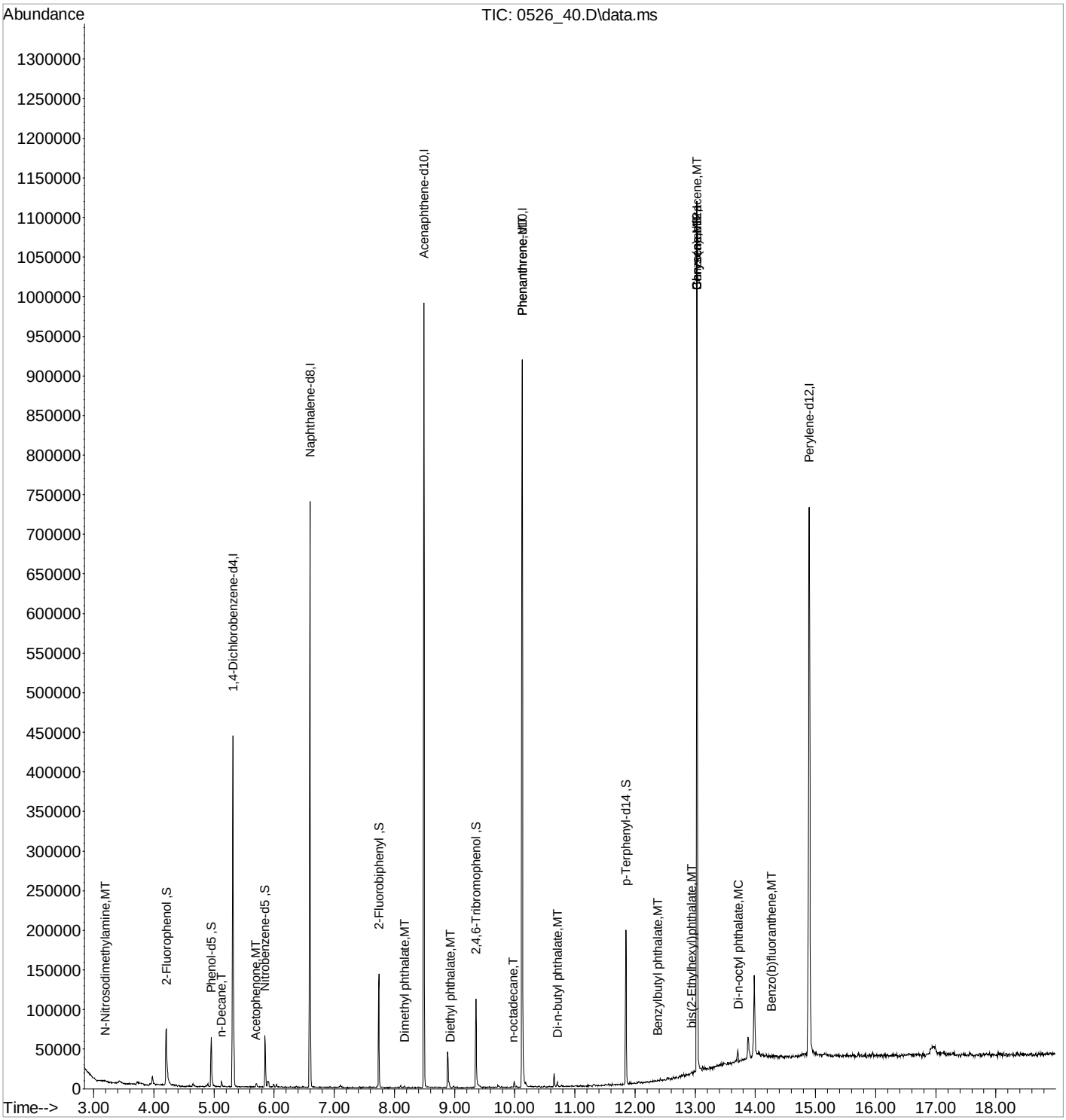
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

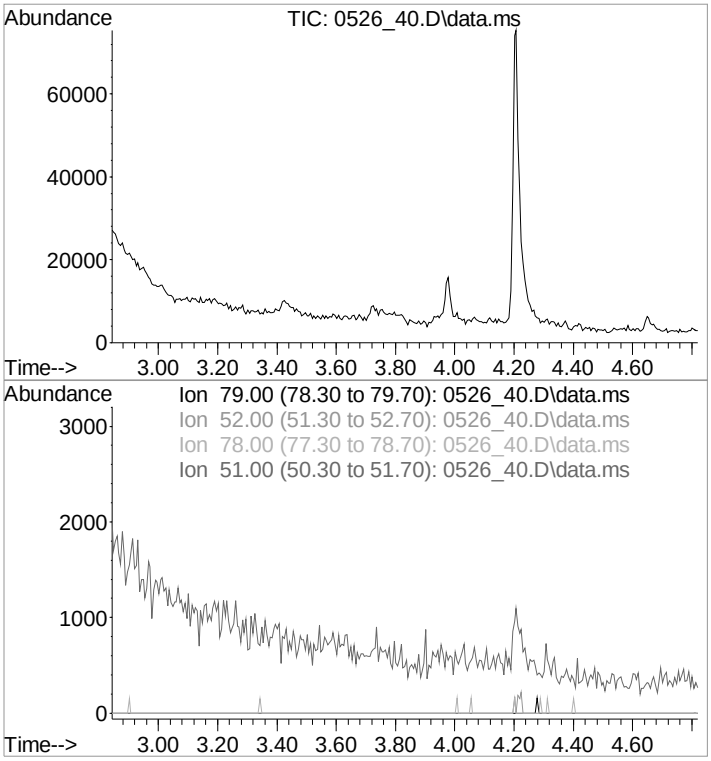
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 40.D
Acq On : 27 May 2015 6:31 pm
Operator : 377
Sample : BLANK 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 13 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:13:51 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



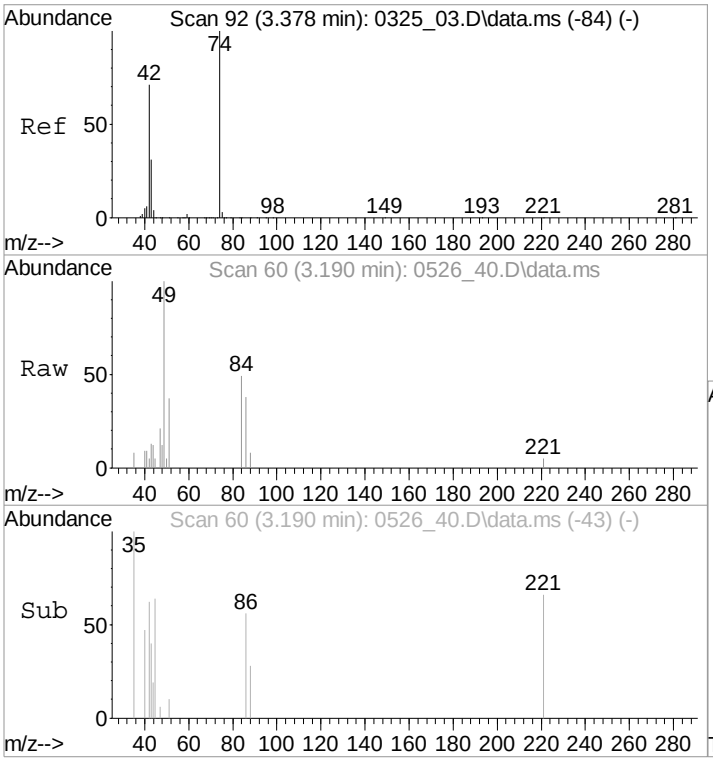


#2
Pyridine
Concen: N.D.
Expected RT: 3.22 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 79

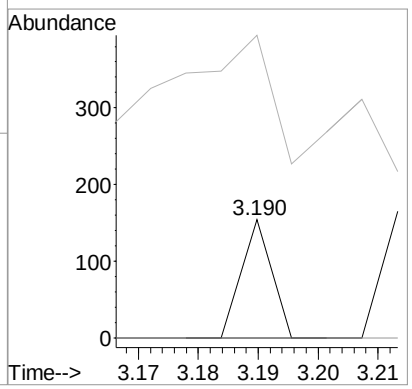
Sig	Exp Ratio
79	100
52	119.2
78	12.9
51	54.9

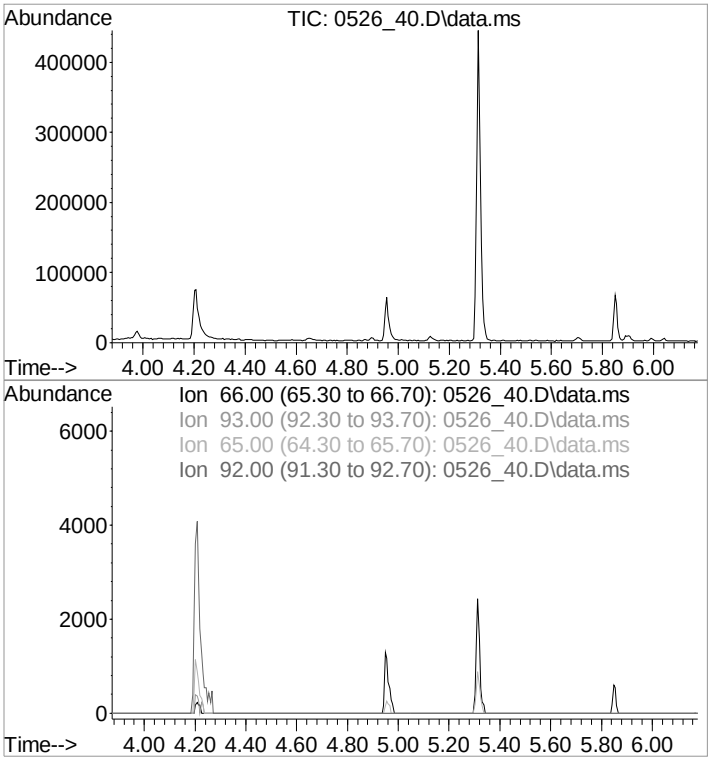


#3
N-Nitrosodimethylamine
Concen: Below Cal
RT: 3.190 min Scan# 60
Delta R.T. 0.000 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 42 Resp: 54

Ion	Ratio	Lower	Upper
42	100		
74	0.0	69.6	109.6#
43	4113.0	30.7	70.7#



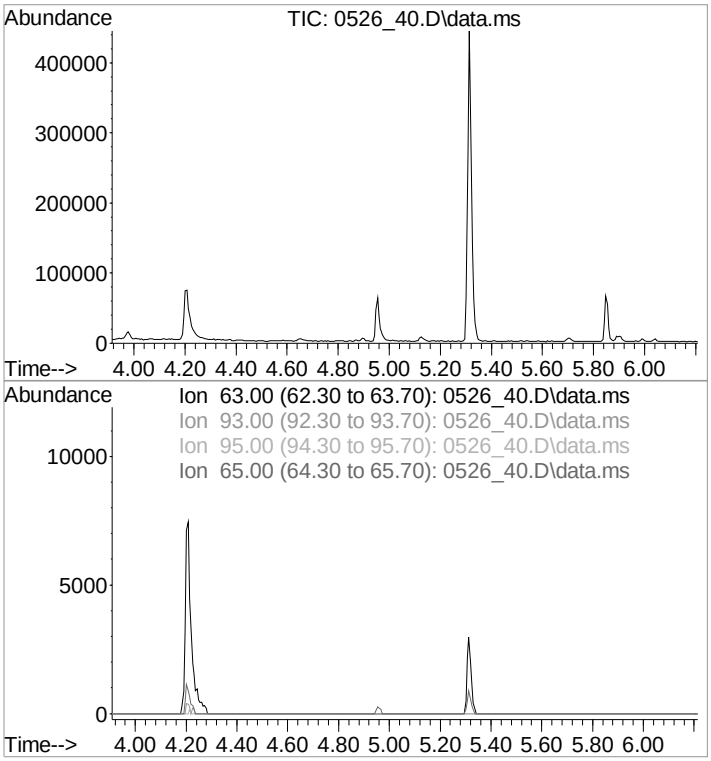


#5
Aniline
Concen: N.D.
Expected RT: 5.02 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 66

Sig	Exp Ratio
66	100
93	221.0
65	50.9
92	28.2

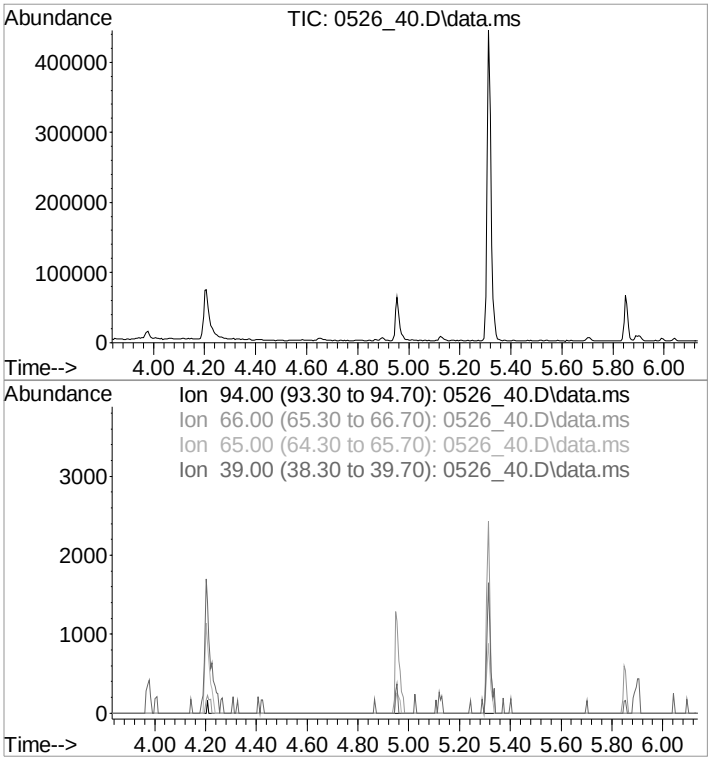


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.06 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
93	103.8
95	34.5
65	30.4

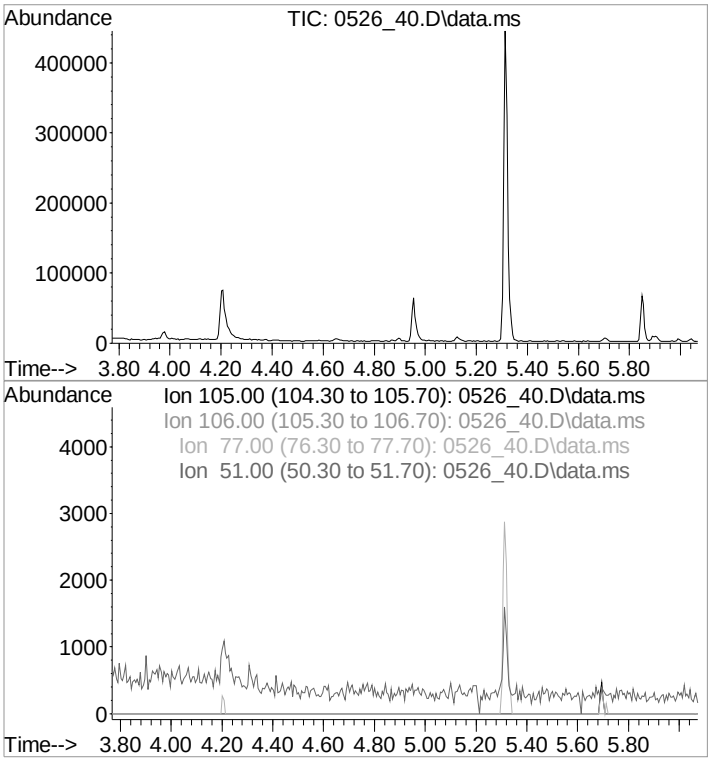


#8
Phenol
Concen: N.D.
Expected RT: 4.98 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 94

Sig	Exp Ratio
94	100
66	50.4
65	35.5
39	29.9

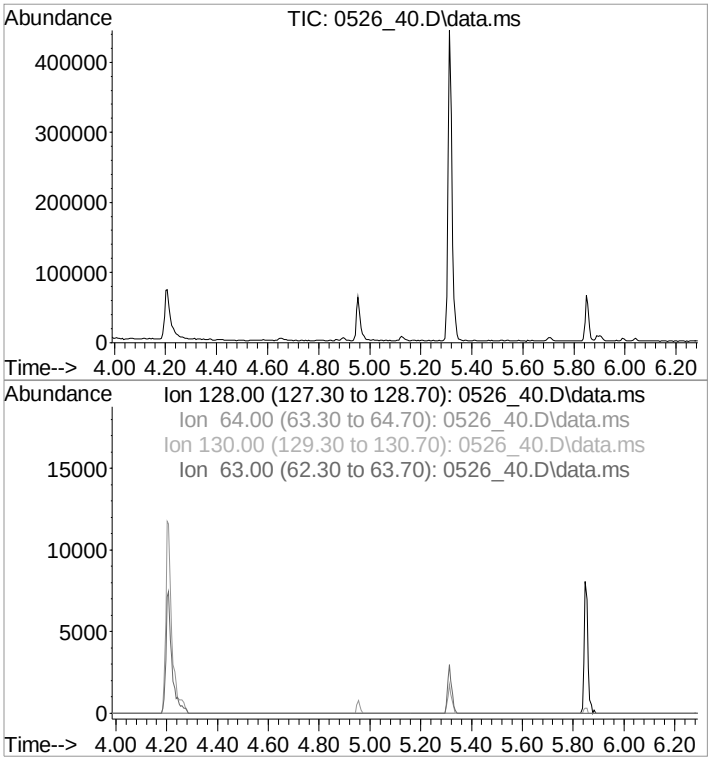


#9
Benzaldehyde
Concen: N.D.
Expected RT: 4.92 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
106	97.5
77	109.2
51	70.6

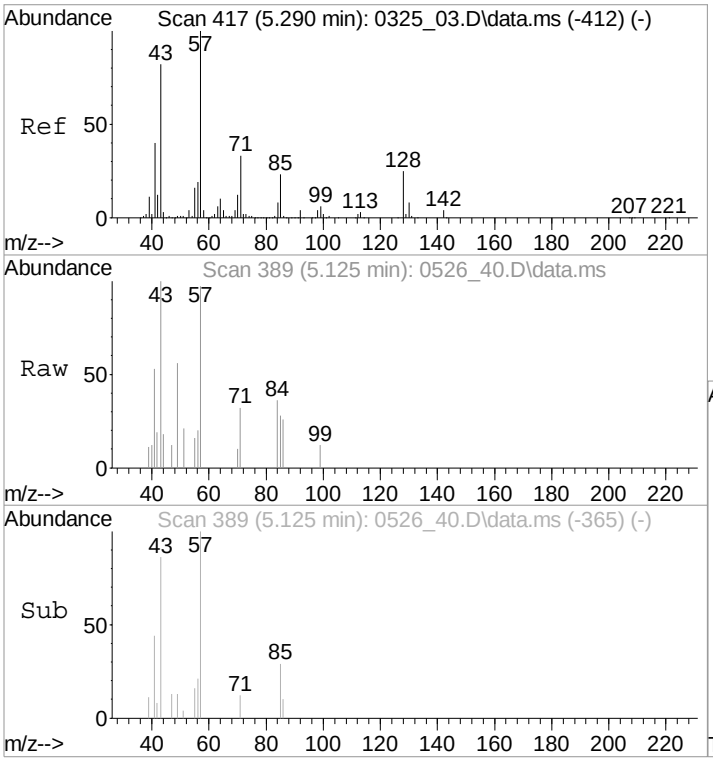


#10
2-Chlorophenol
Concen: N.D.
Expected RT: 5.14 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 128

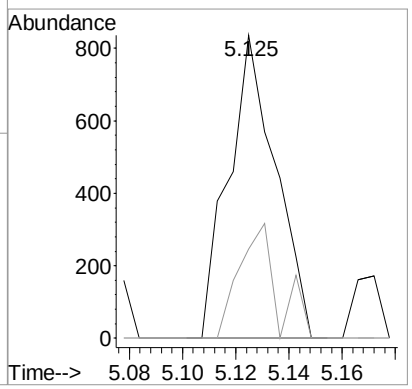
Sig	Exp Ratio
128	100
64	56.2
130	32.1
63	40.7

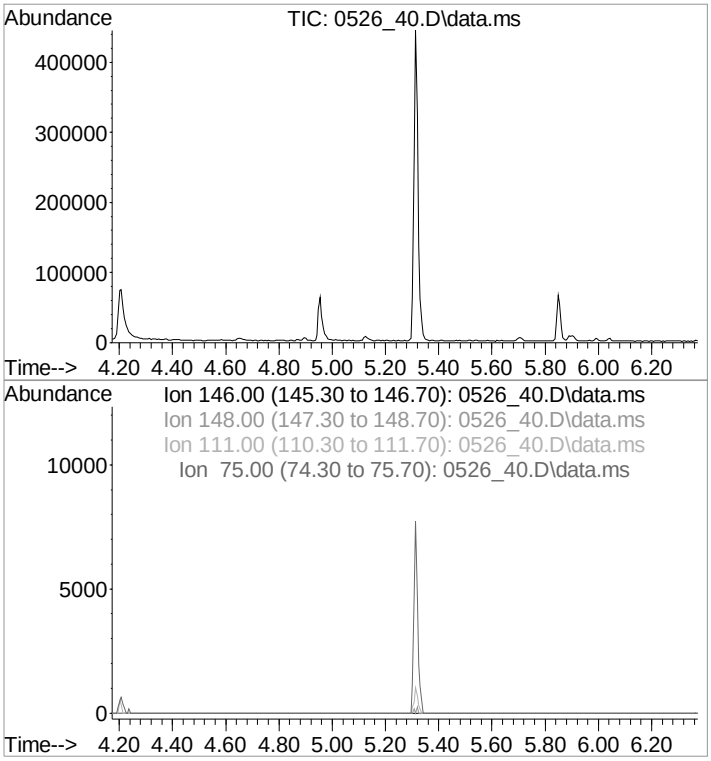


#11
n-Decane
Concen: 0.6144705 ppb
RT: 5.125 min Scan# 389
Delta R.T. -0.012 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 41 Resp: 1028

Ion	Ratio	Lower	Upper
41	100		
55	30.7	31.7	47.5#
67	0.0	2.2	3.2#



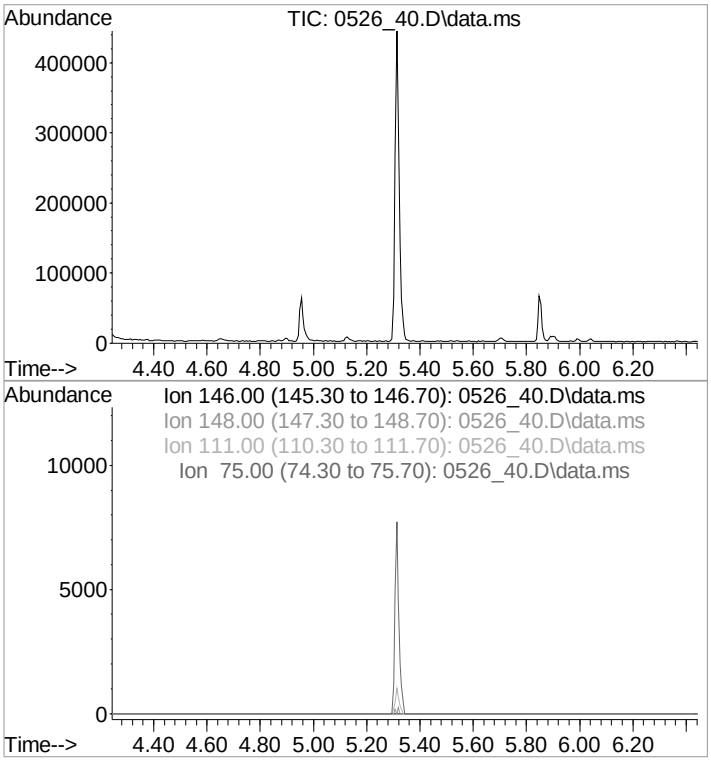


#12
1,3-Dichlorobenzene
Concen: N.D.
Expected RT: 5.27 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	61.0
111	45.0
75	36.9

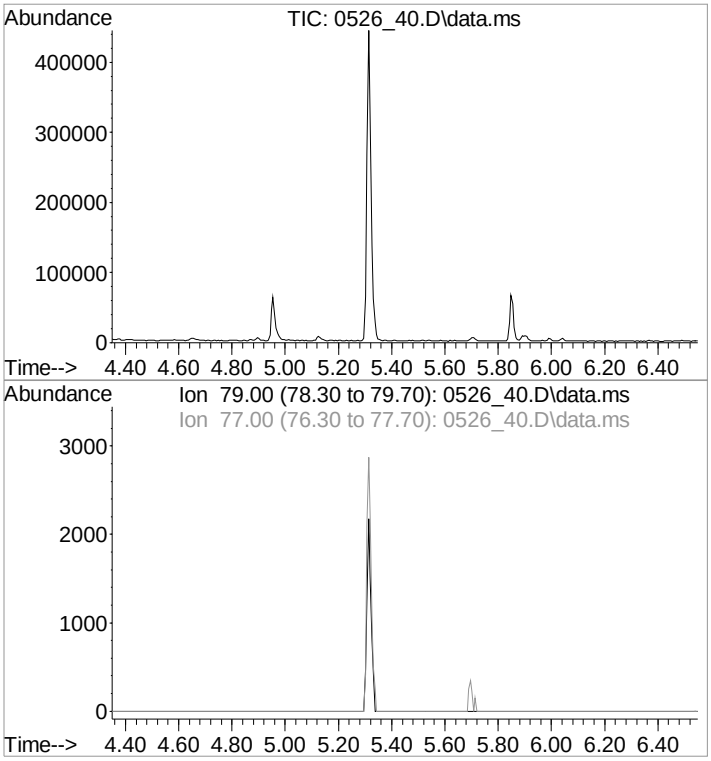


#13
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 5.34 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.3
111	42.9
75	35.3

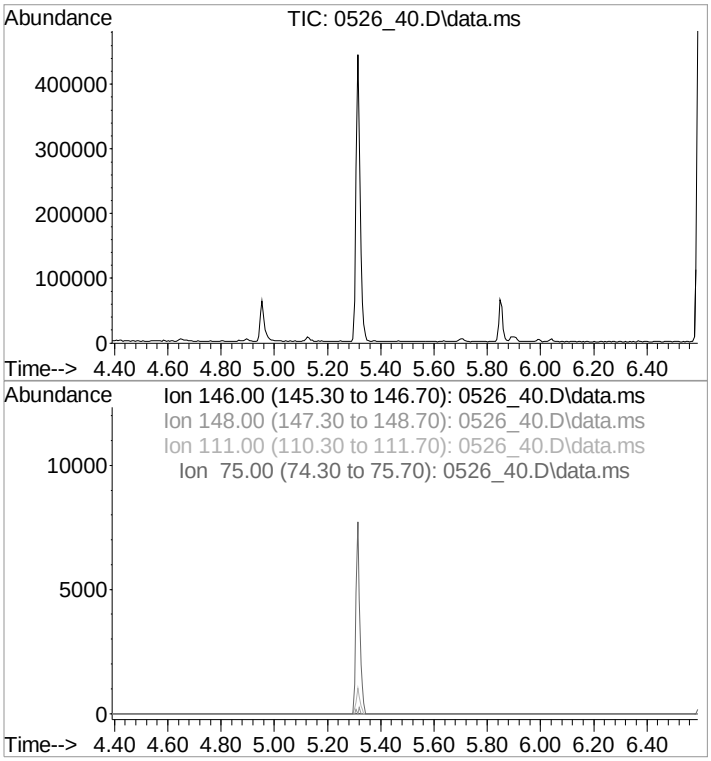


#14
Benzyl Alcohol
Concen: N.D.
Expected RT: 5.45 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
77	66.5

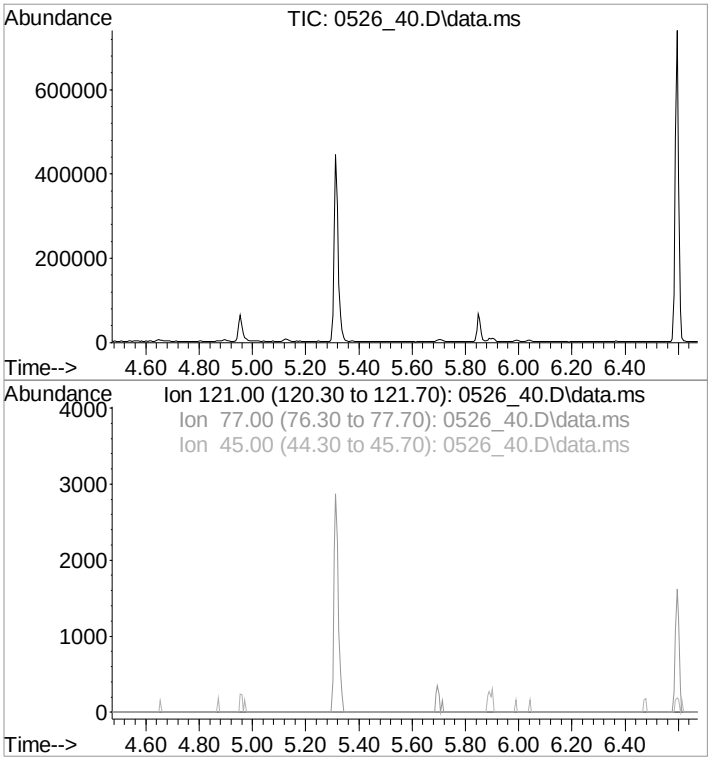


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.49 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.1
111	46.1
75	35.4

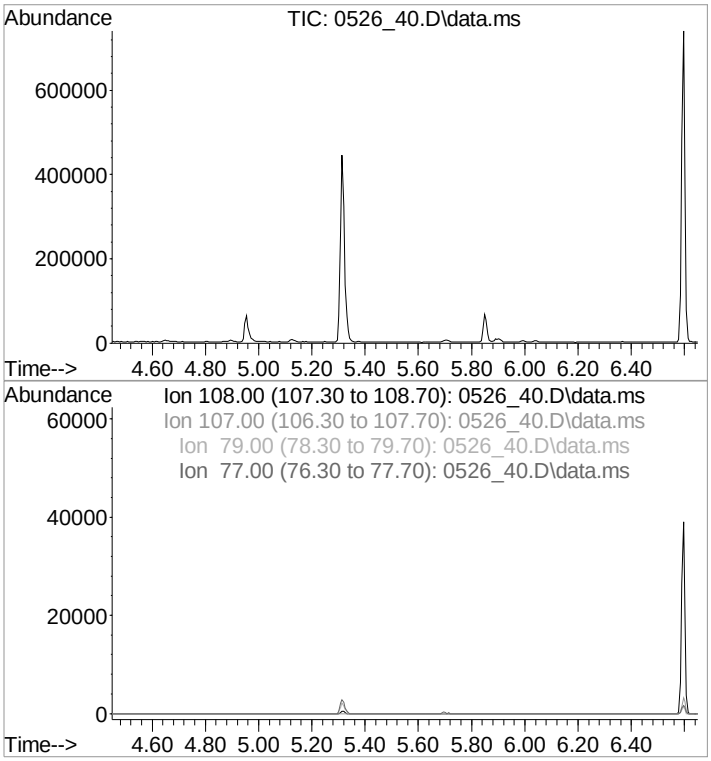


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.57 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 121

Sig	Exp Ratio
121	100
77	58.8
45	562.9

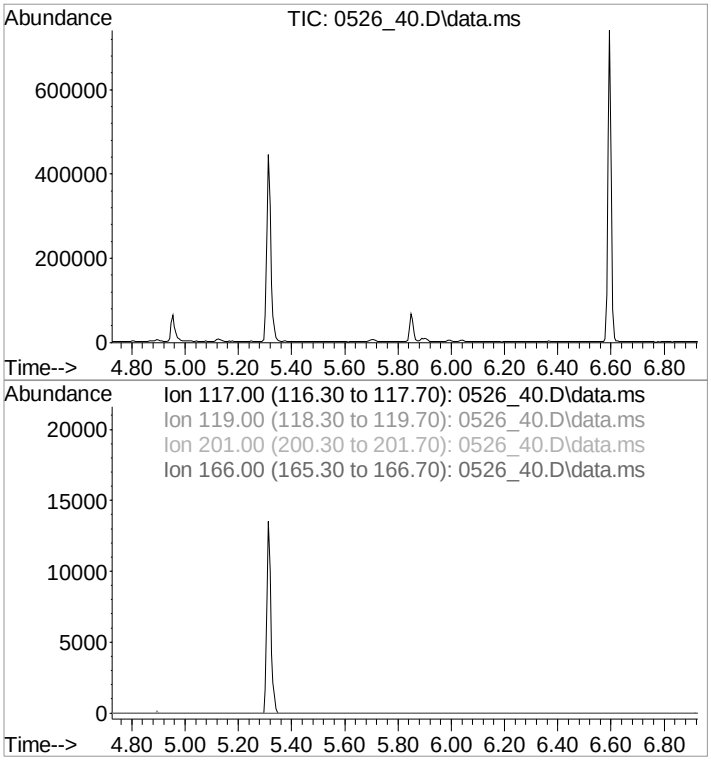


#17
2-Methylphenol
Concen: N.D.
Expected RT: 5.55 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 108

Sig	Exp Ratio
108	100
107	87.6
79	47.2
77	48.6

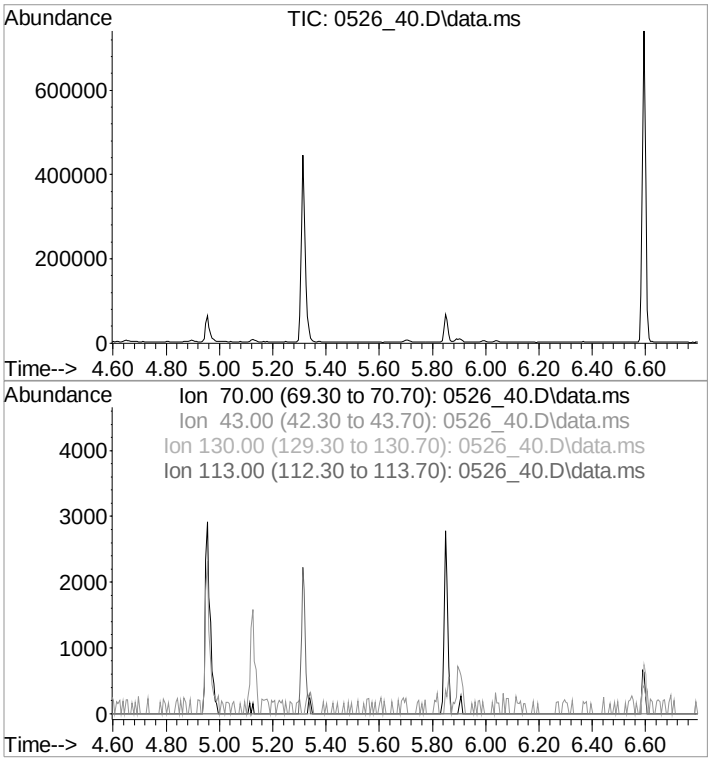


#18
Hexachloroethane
Concen: N.D.
Expected RT: 5.82 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.6
201	80.5
166	51.0

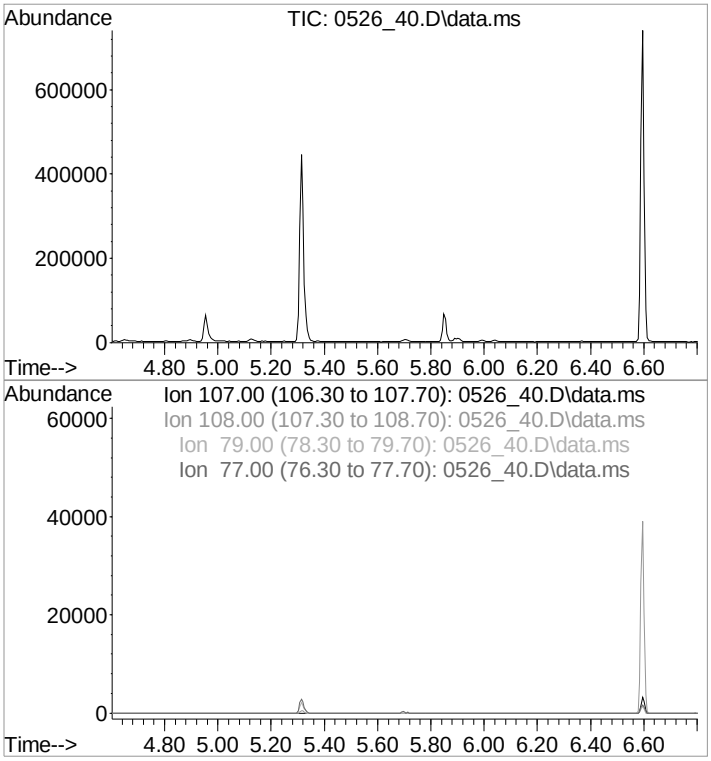


#19
N-Nitrosodi-n-propylamine
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 70

Sig	Exp Ratio
70	100
43	113.6
130	24.0
113	13.1

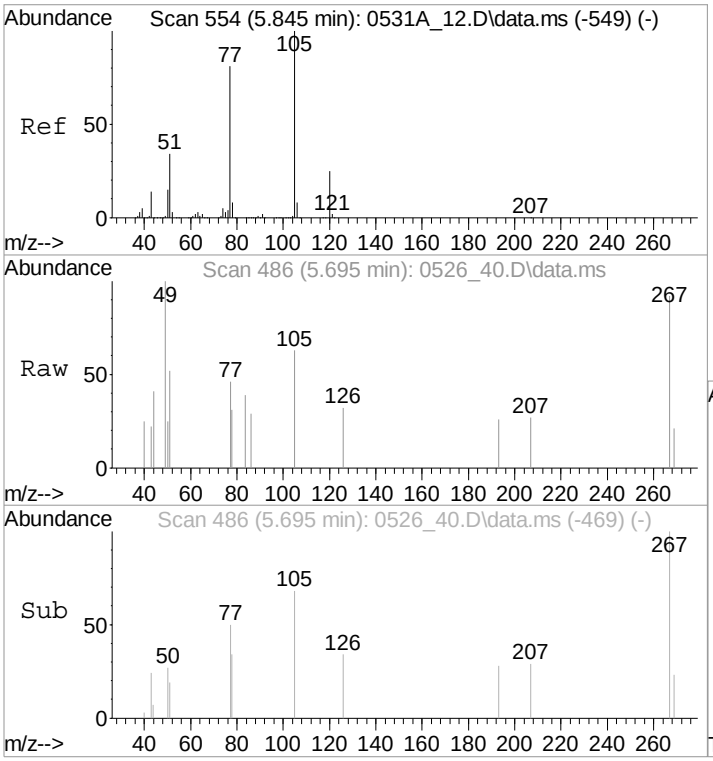


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 107

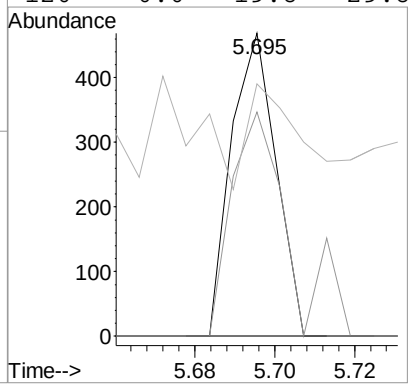
Sig	Exp Ratio
107	100
108	94.4
79	35.8
77	38.2

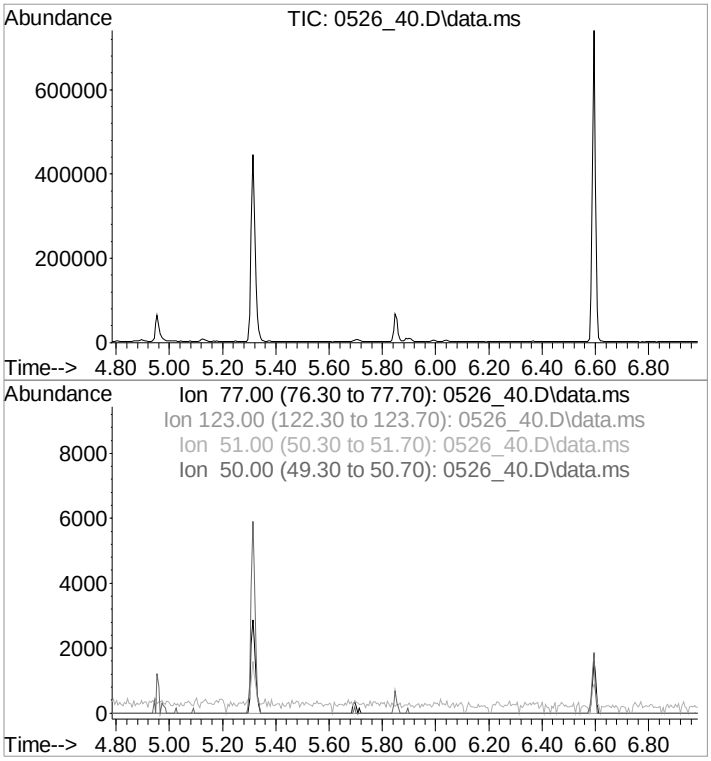


#21
Acetophenone
Concen: Below Cal
RT: 5.695 min Scan# 486
Delta R.T. 0.000 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:105 Resp: 363

Ion	Ratio	Lower	Upper
105	100		
77	95.0	67.3	100.9
51	724.0	31.0	46.4#
120	0.0	19.8	29.8#



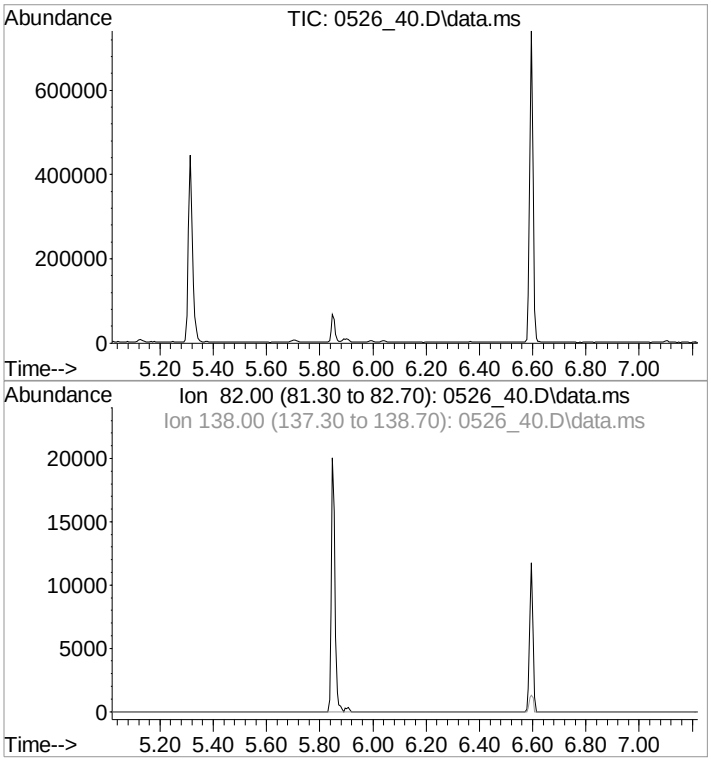


#24
Nitrobenzene
Concen: N.D.
Expected RT: 5.88 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 77

Sig	Exp Ratio
77	100
123	44.1
51	72.6
50	27.3

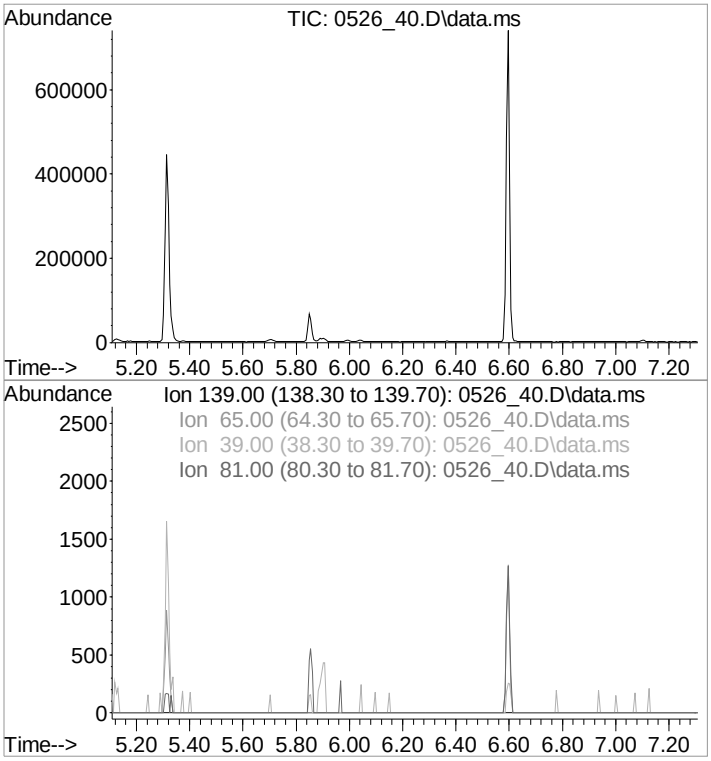


#25
Isophorone
Concen: N.D.
Expected RT: 6.12 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 82

Sig	Exp Ratio
82	100
138	17.1

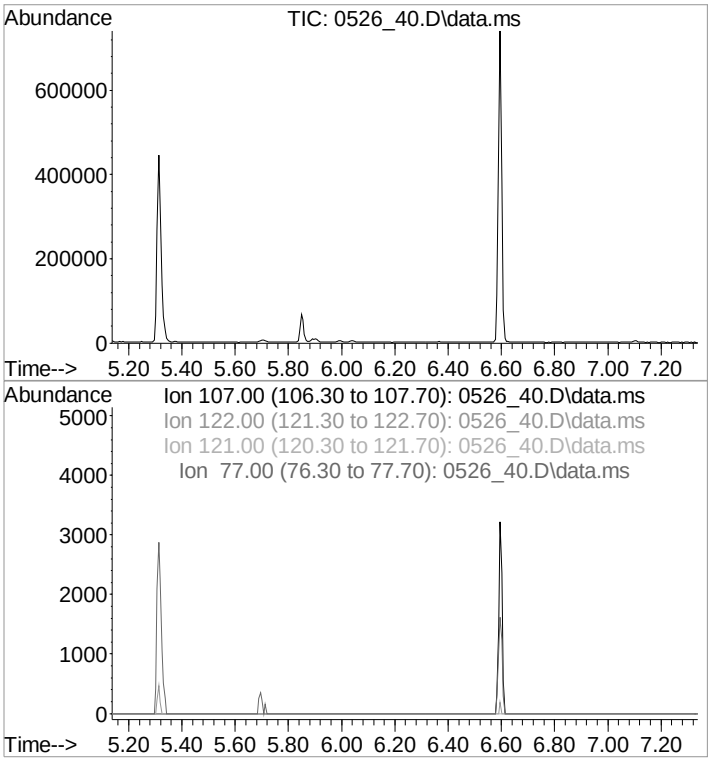


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.21 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	64.3
39	56.7
81	46.6

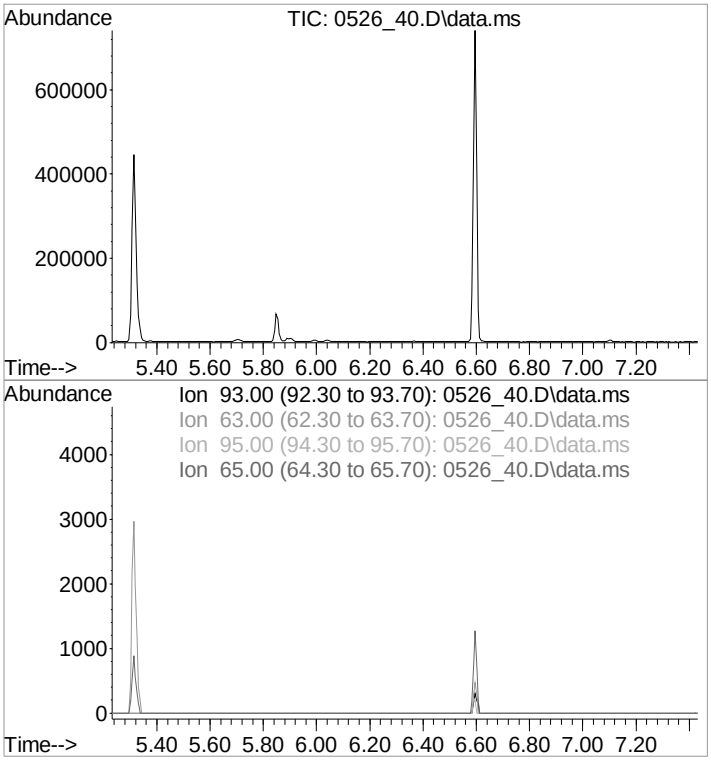


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.24 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
122	80.3
121	47.0
77	32.8

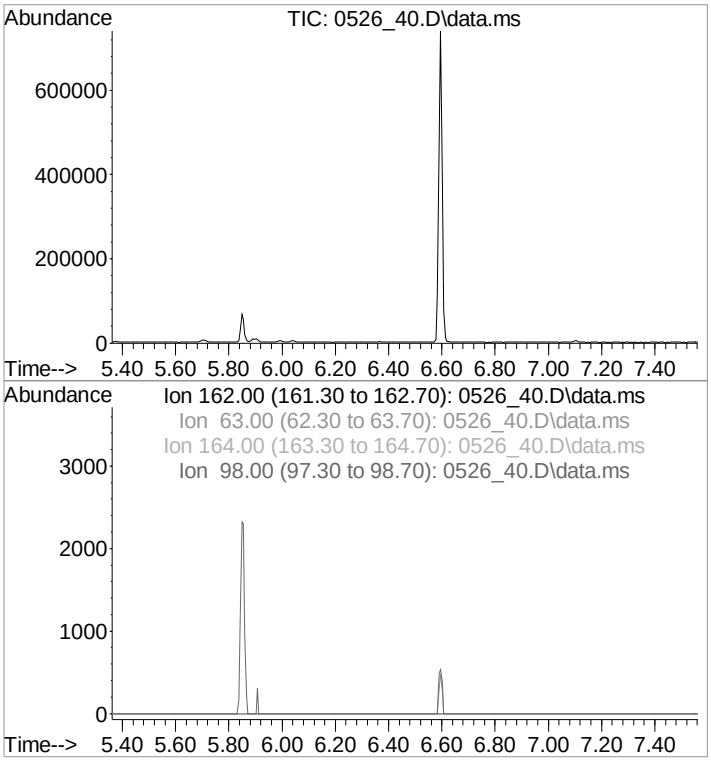


#28
bis(2-Chlorethoxy)methane
Concen: N.D.
Expected RT: 6.33 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 93

Sig	Exp Ratio
93	100
63	85.3
95	32.1
65	24.7

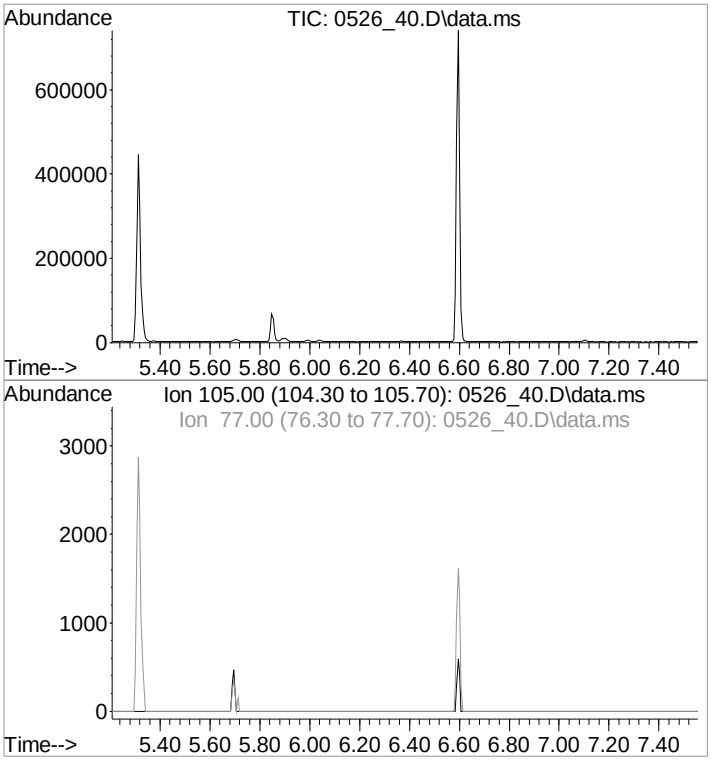


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.46 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	74.9
164	63.5
98	38.1

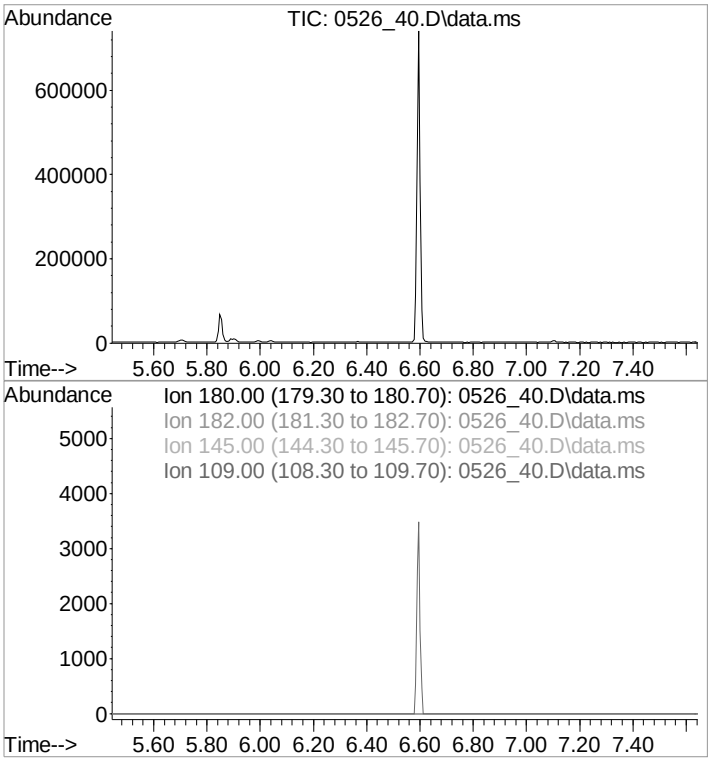


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.31 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	78.2

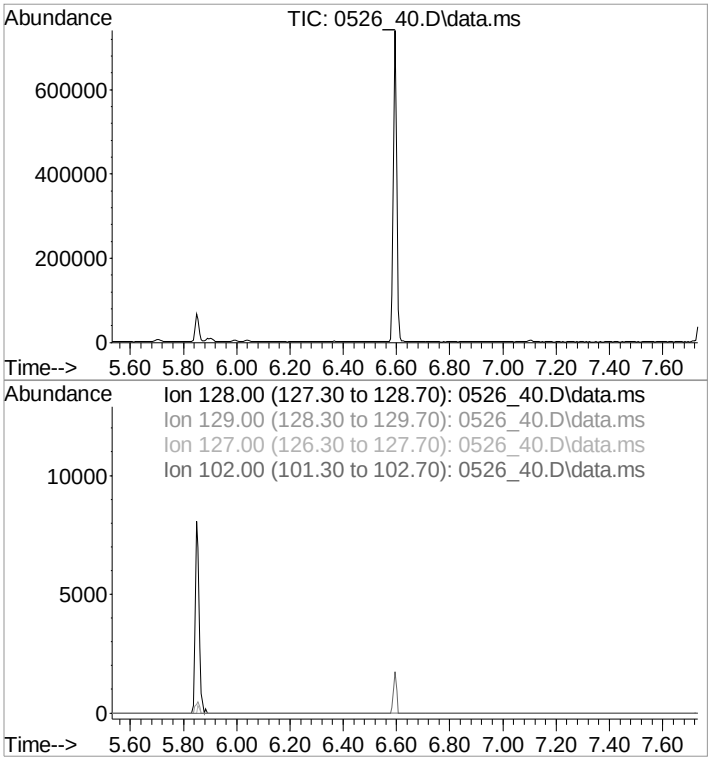


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.54 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 180

Sig	Exp Ratio
180	100
182	95.0
145	32.2
109	29.7

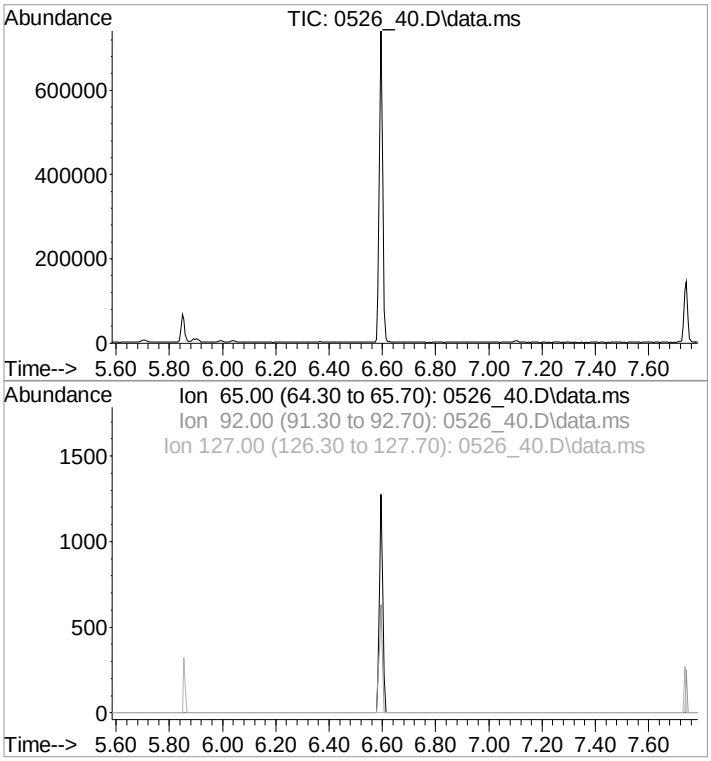


#32
Naphthalene
Concen: N.D.
Expected RT: 6.63 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
129	11.4
127	12.6
102	10.8

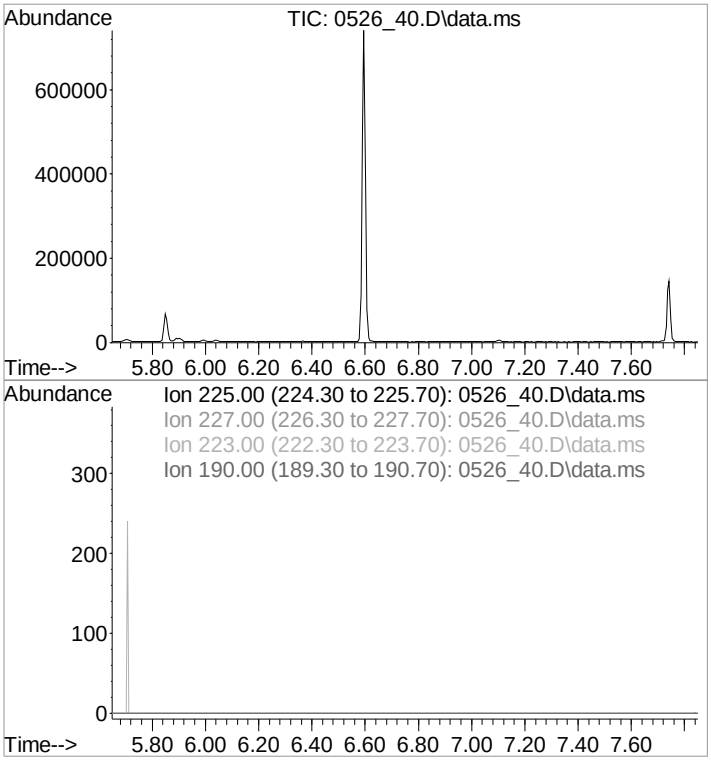


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.68 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	49.6
127	268.8

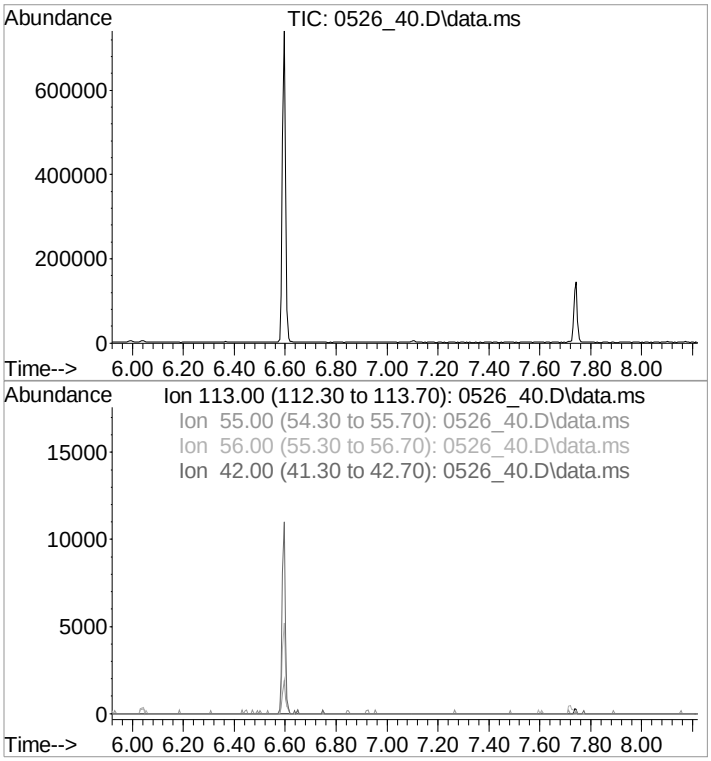


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.75 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 225

Sig	Exp Ratio
225	100
227	64.9
223	62.6
190	50.1

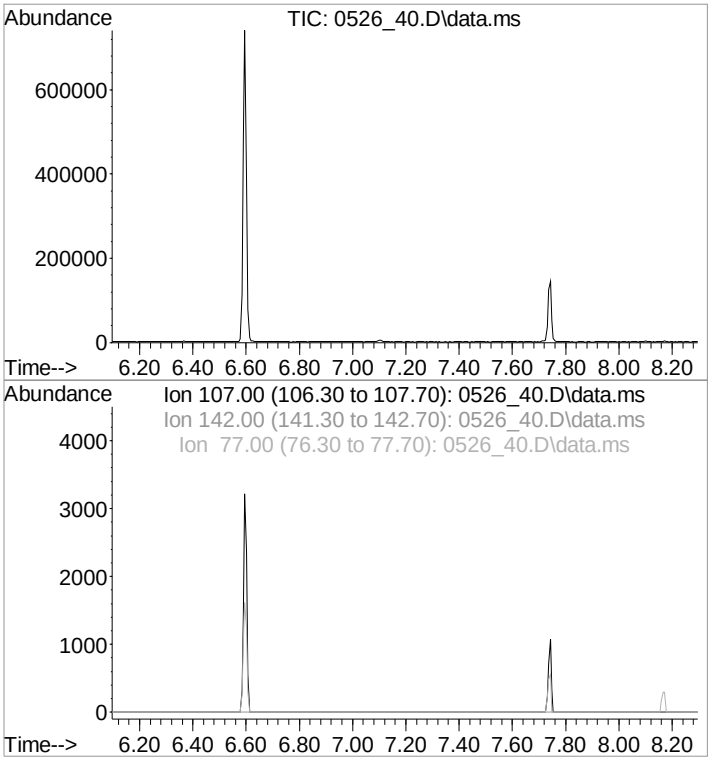


#35
Caprolactam
Concen: N.D.
Expected RT: 7.02 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 113

Sig	Exp Ratio
113	100
55	228.2
56	173.0
42	108.4

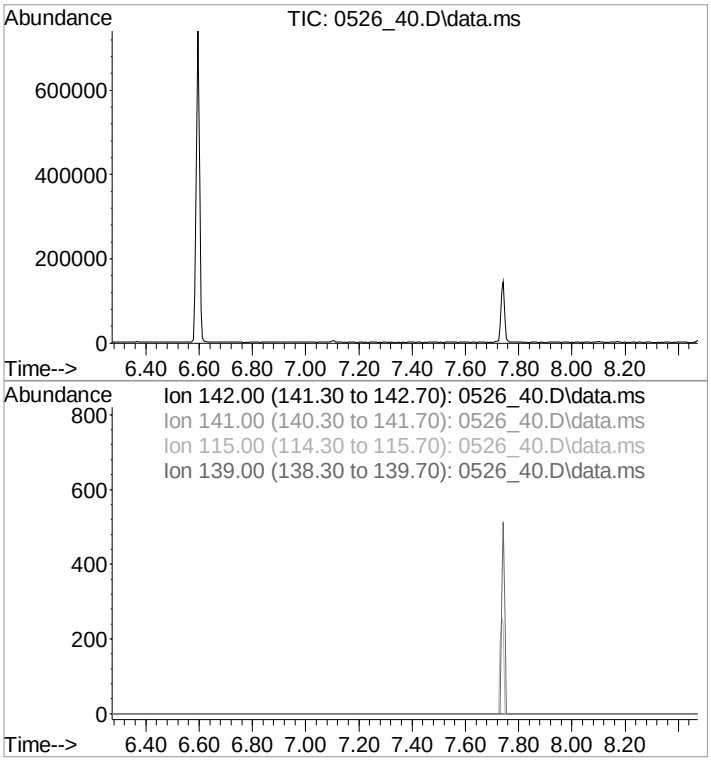


#36
4-Chloro-3-methylphenol
Concen: N.D.
Expected RT: 7.20 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
142	76.7
77	55.9

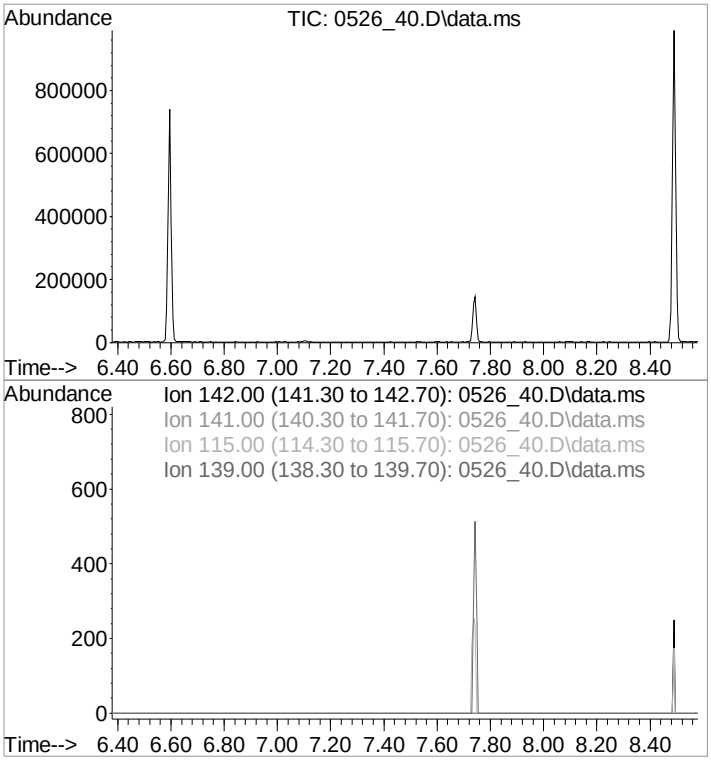


#37
2-Methylnaphthalene
Concen: N.D.
Expected RT: 7.37 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	87.1
115	41.7
139	11.0

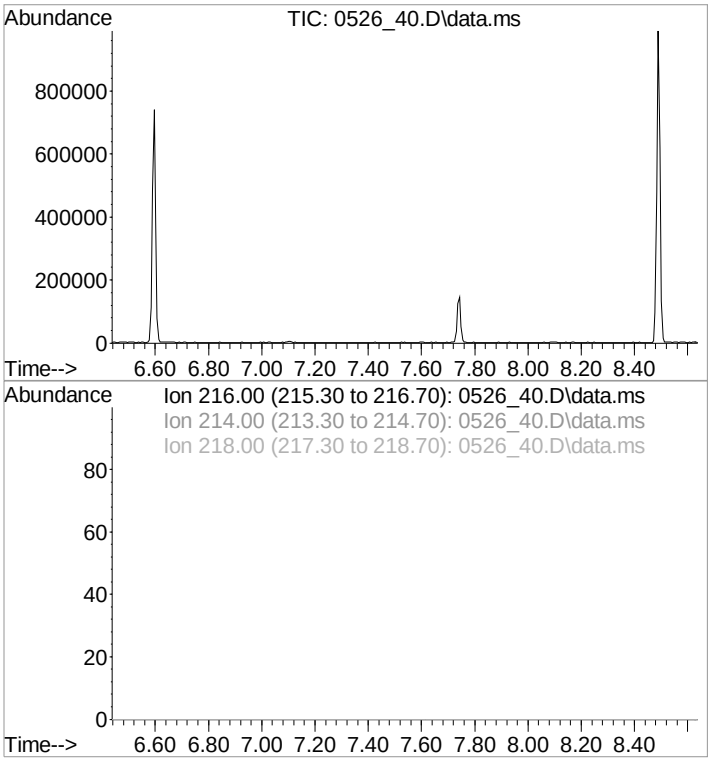


#38
1-Methylnaphthalene
Concen: N.D.
Expected RT: 7.48 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	90.1
115	43.8
139	11.9

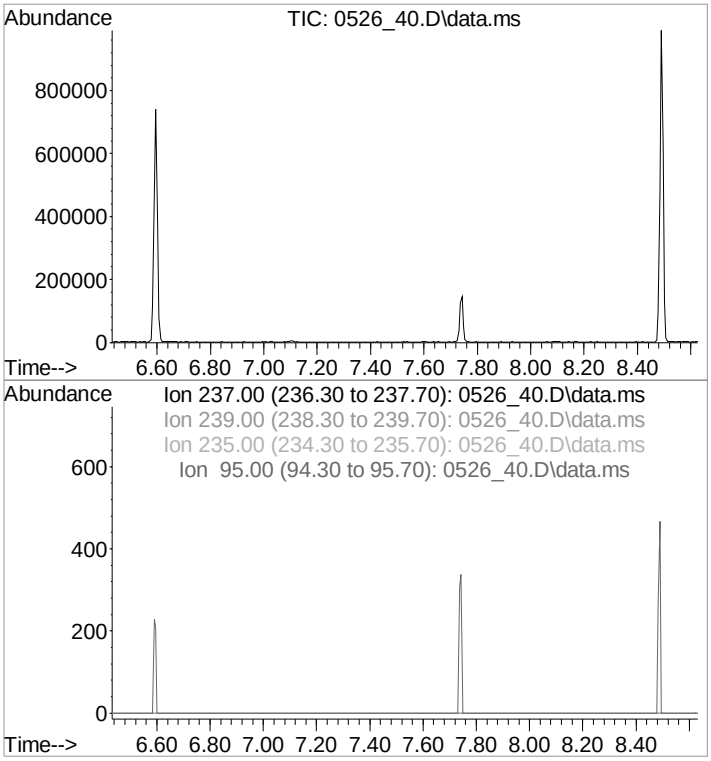


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.54 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	80.5
218	48.2

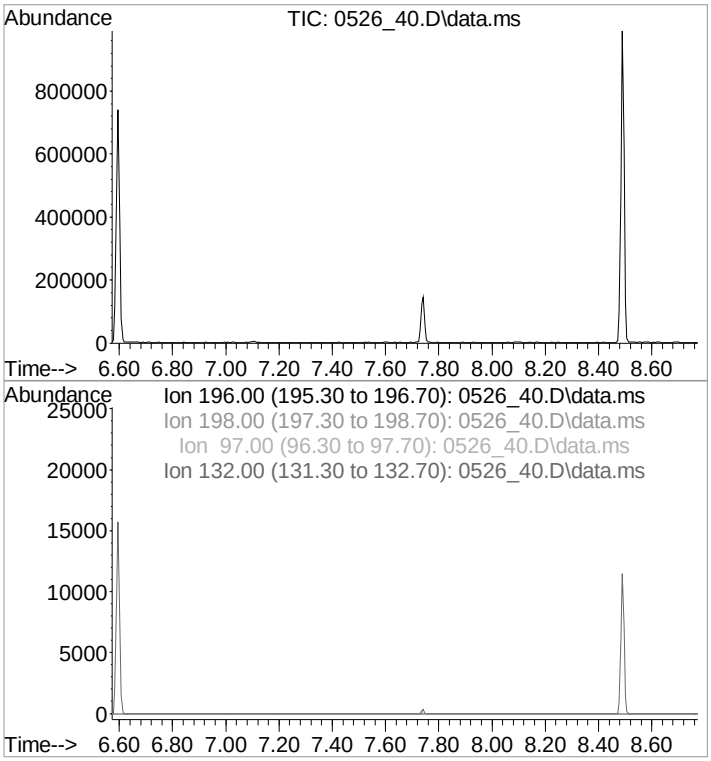


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.53 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	62.8
235	63.7
95	27.6

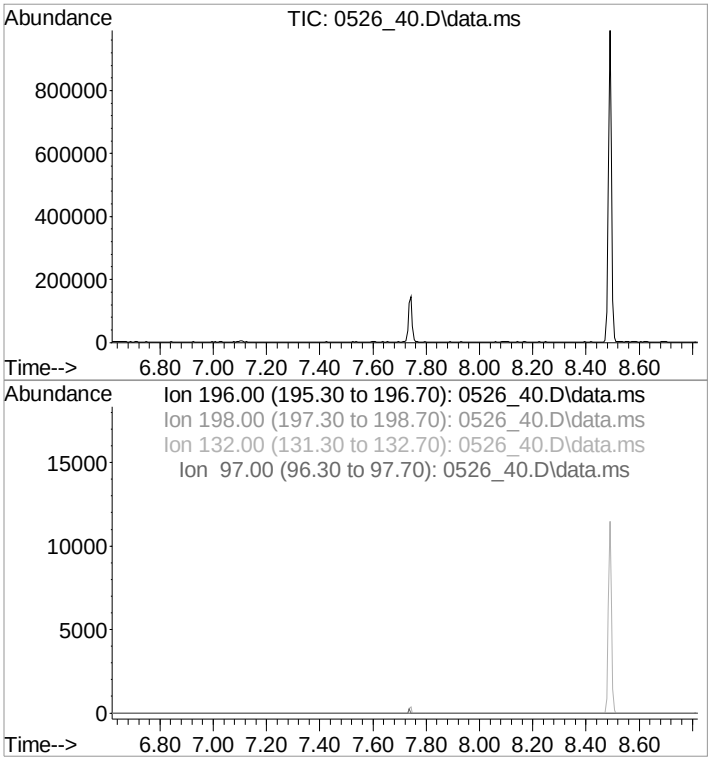


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.67 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	97.6
97	68.6
132	46.8

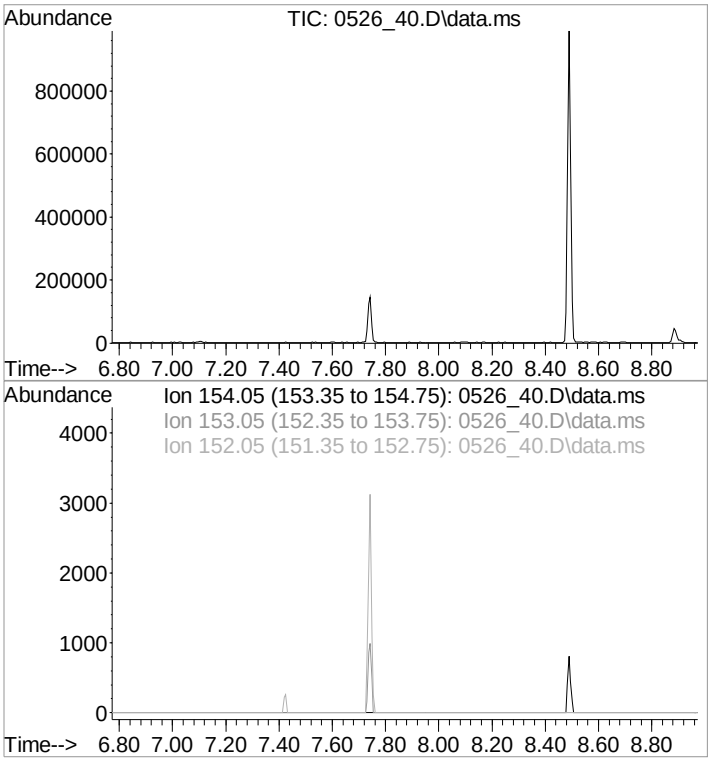


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.6
132	31.4
97	66.9

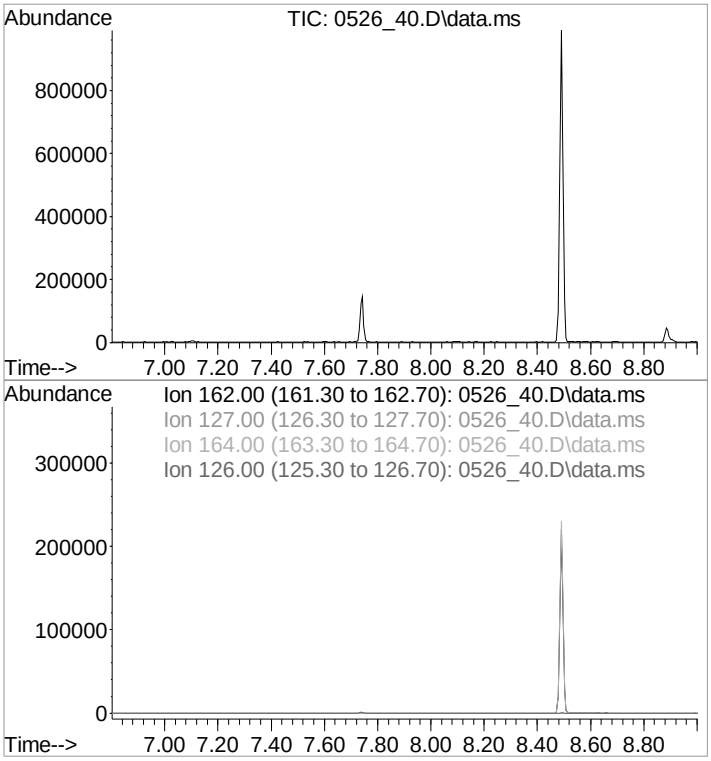


#45
Biphenyl
Concen: N.D.
Expected RT: 7.87 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 154

Sig	Exp Ratio
154	100
153	40.0
152	27.5

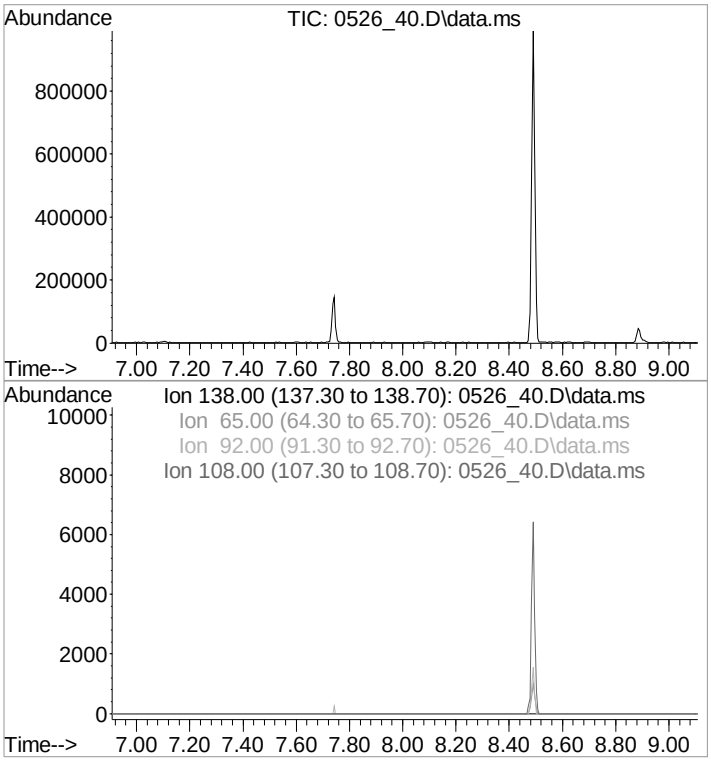


#46
2-Chloronaphthalene
Concen: N.D.
Expected RT: 7.90 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
127	39.1
164	32.7
126	19.9

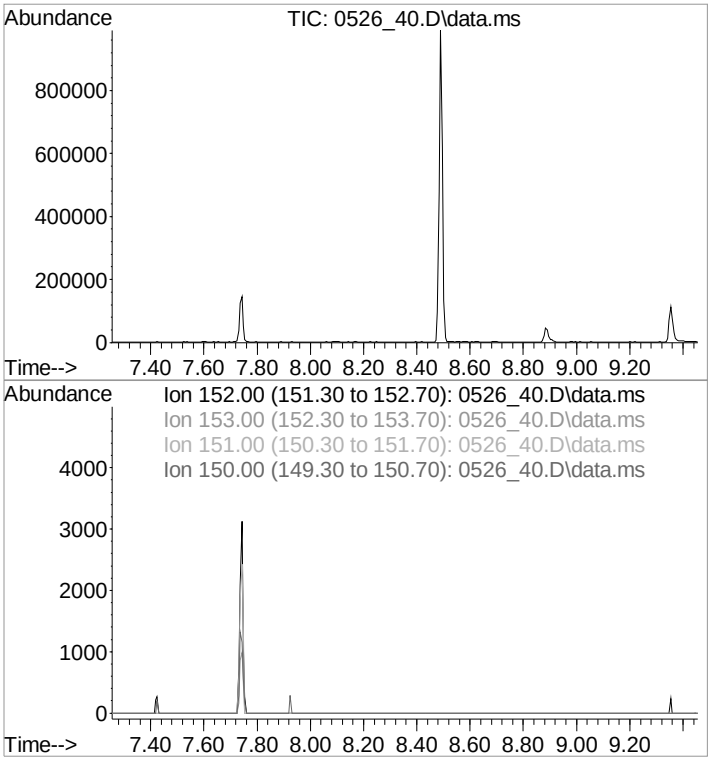


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.01 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	111.6
92	66.3
108	22.6

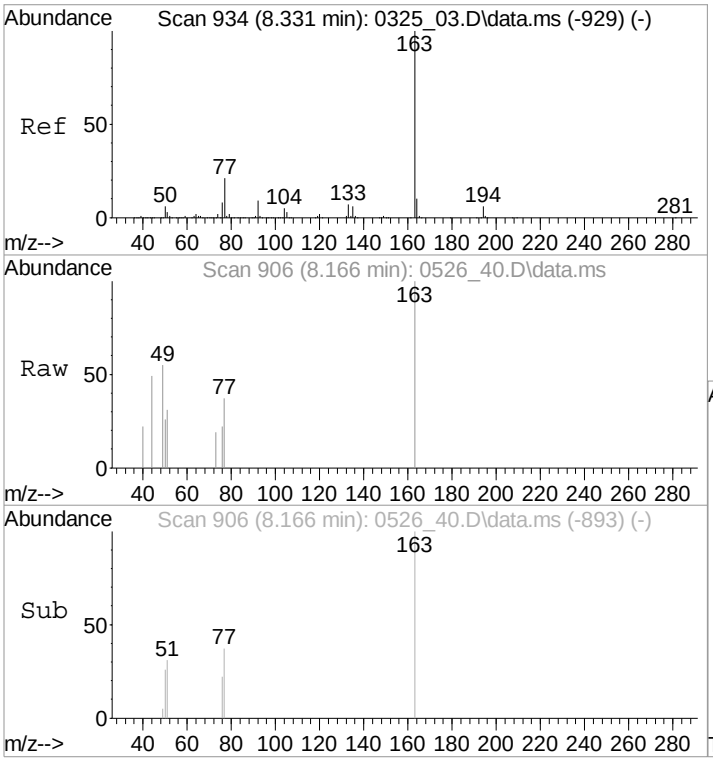


#48
Acenaphthylene
Concen: N.D.
Expected RT: 8.35 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 152

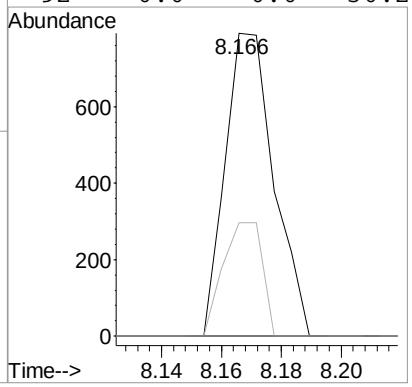
Sig	Exp Ratio
152	100
153	13.3
151	19.9
150	14.4

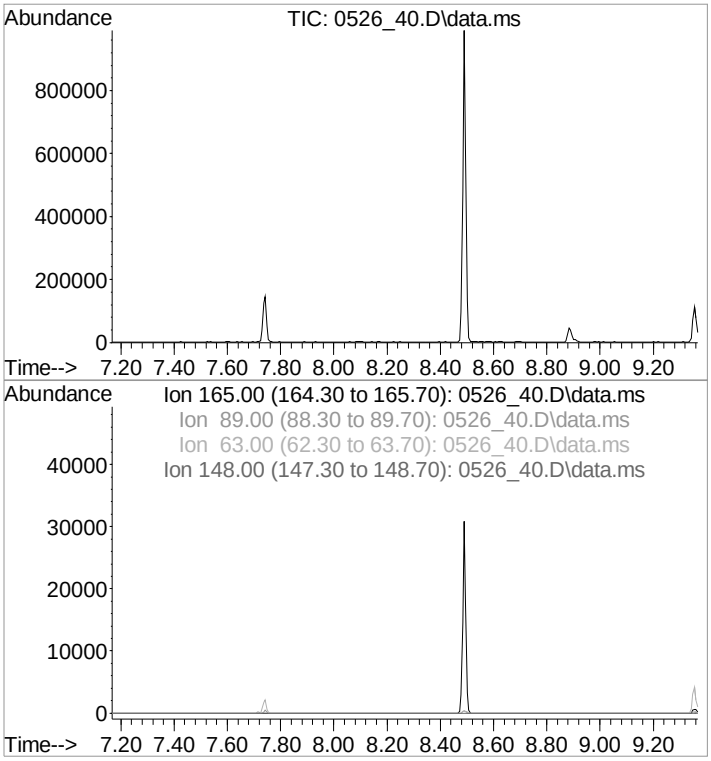


#49
Dimethyl phthalate
Concen: 0.1397071 ppb
RT: 8.166 min Scan# 906
Delta R.T. -0.024 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:163 Resp: 895

Ion	Ratio	Lower	Upper
163	100		
164	0.0	0.0	29.6
77	37.3	0.9	40.9
92	0.0	0.0	30.2



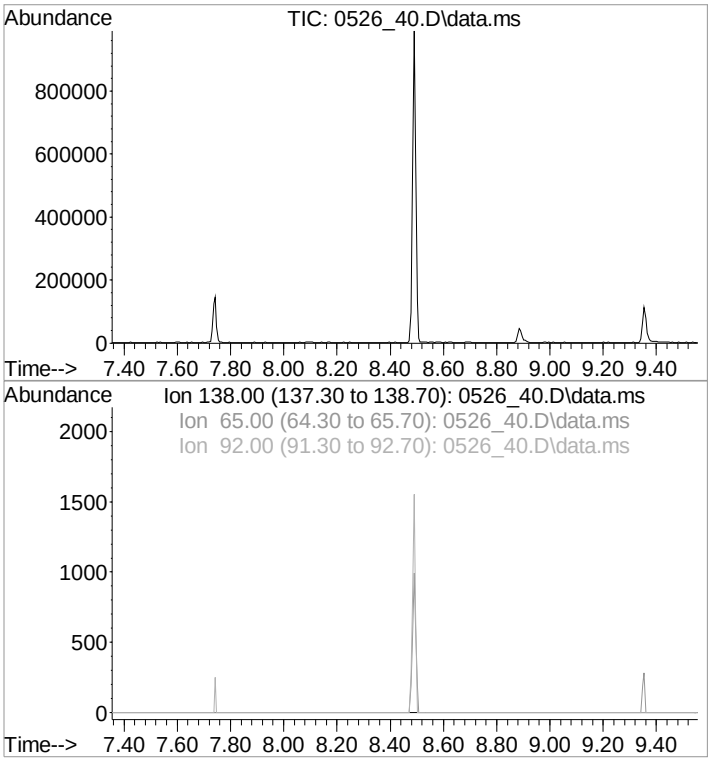


#50
2,6-Dinitrotoluene
Concen: N.D.
Expected RT: 8.27 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	61.1
63	69.0
148	20.7

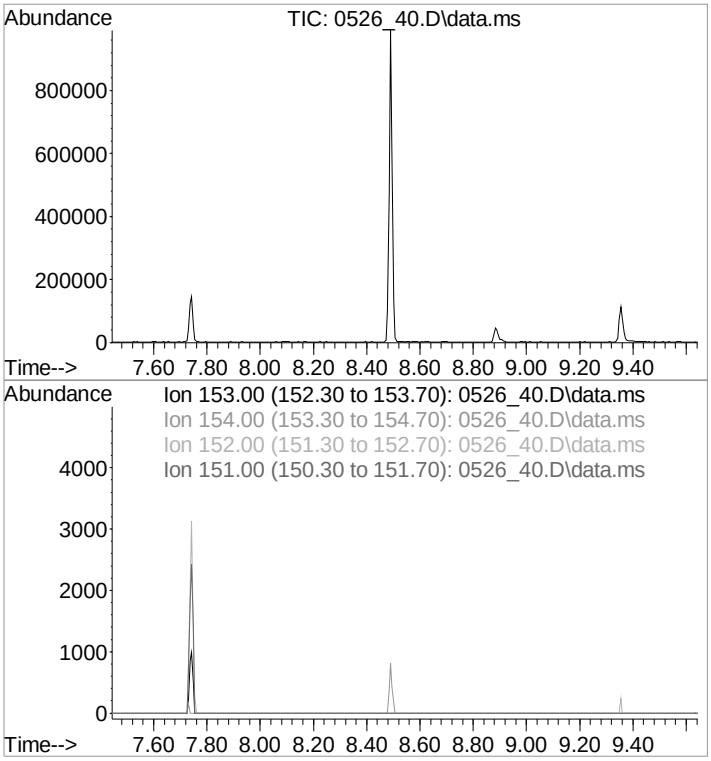


#51
3-Nitroaniline
Concen: N.D.
Expected RT: 8.45 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	169.6
92	124.6

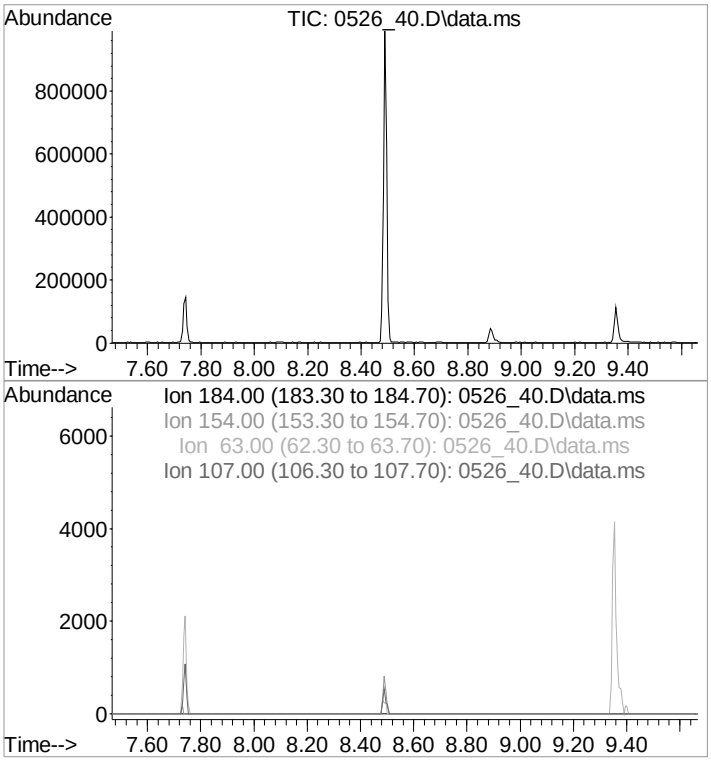


#52
Acenaphthene
Concen: N.D.
Expected RT: 8.54 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 153

Sig	Exp Ratio
153	100
154	92.6
152	46.9
151	17.7

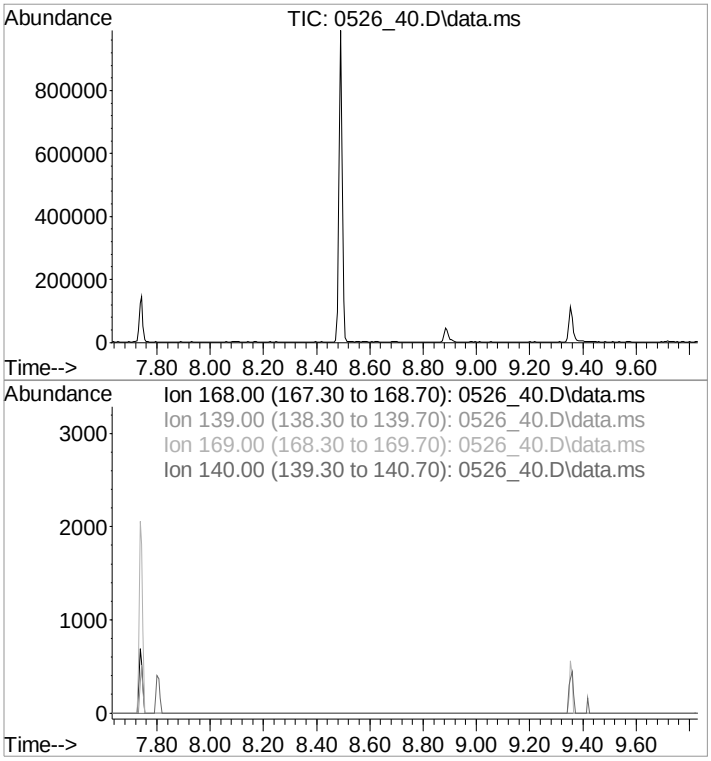


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.56 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
154	67.1
63	65.9
107	45.9

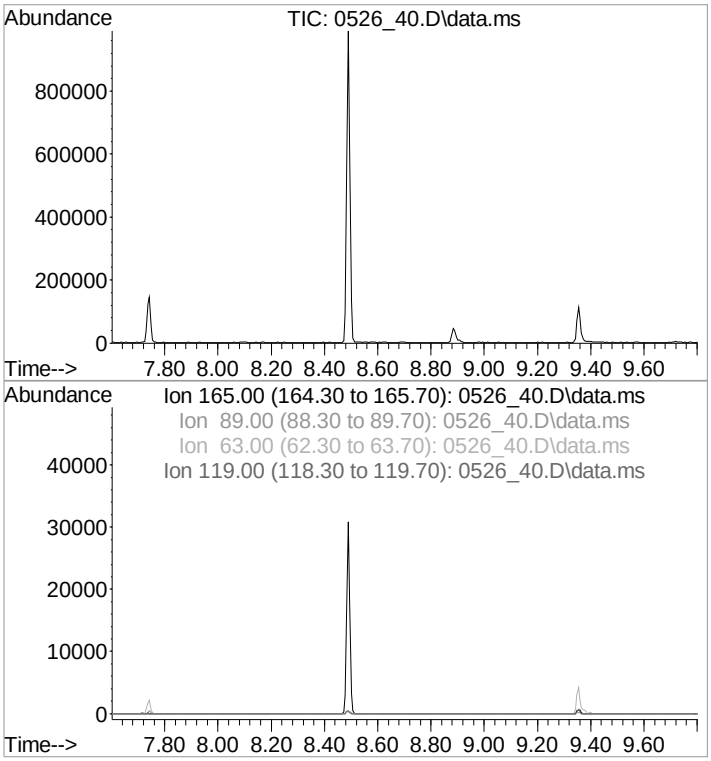


#54
Dibenzofuran
Concen: N.D.
Expected RT: 8.73 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 168

Sig	Exp Ratio
168	100
139	41.1
169	13.1
140	5.8

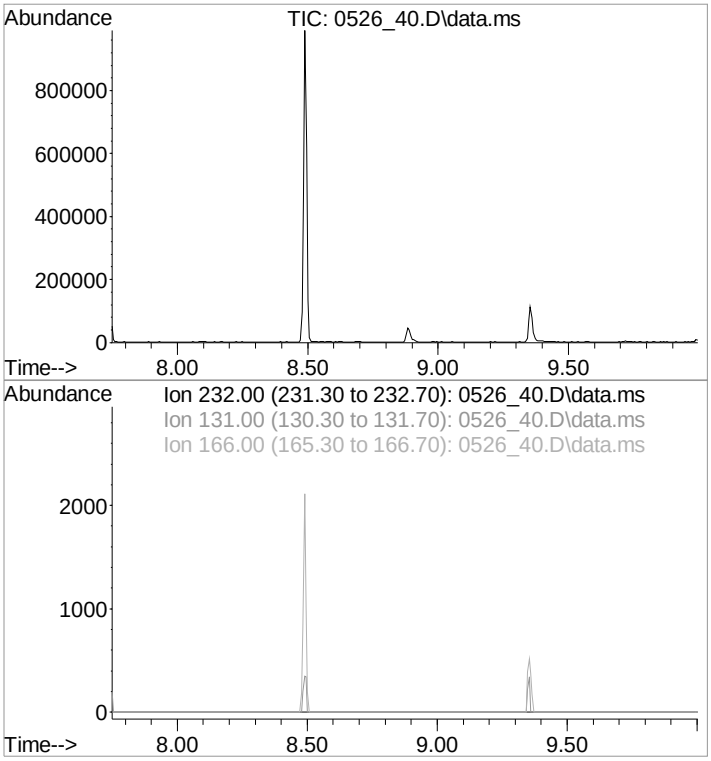


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.70 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	80.5
63	58.2
119	21.9

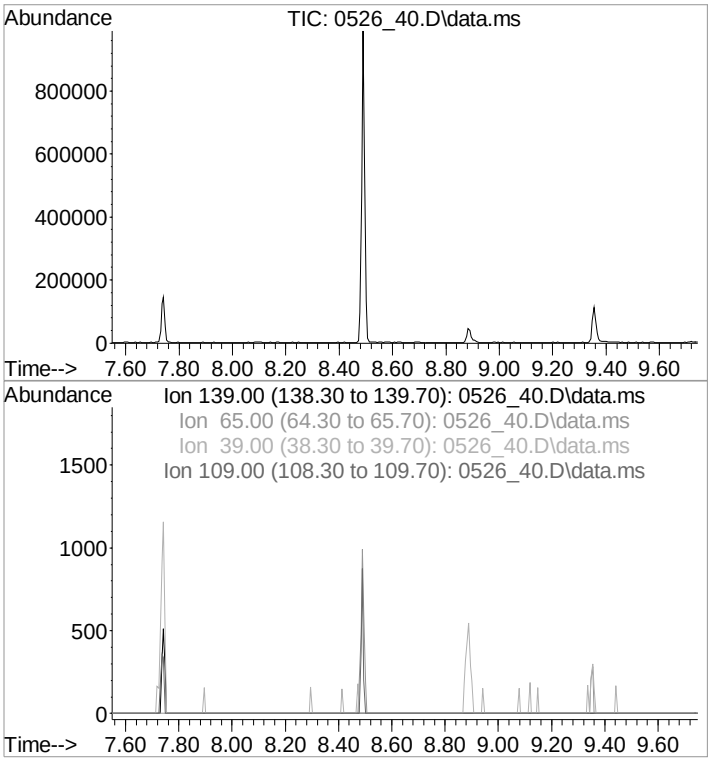


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 8.85 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	56.7
166	36.2

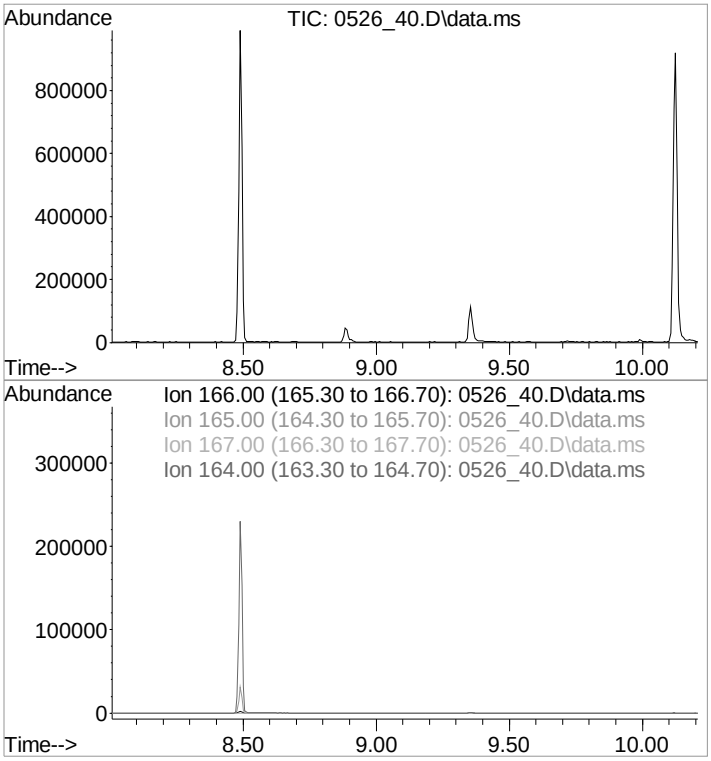


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.65 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	116.1
39	77.2
109	84.3

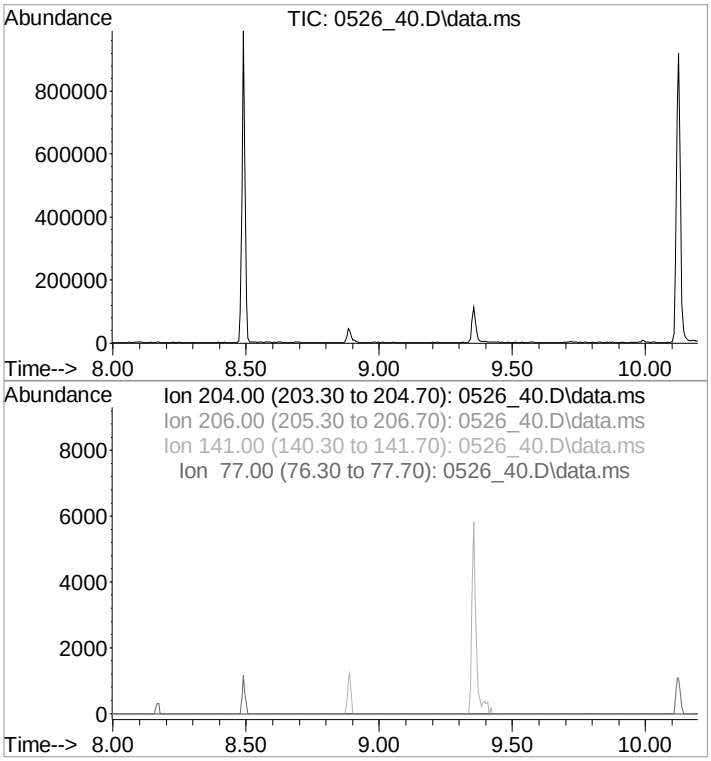


#58
Fluorene
Concen: N.D.
Expected RT: 9.11 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
165	95.7
167	13.2
164	13.5

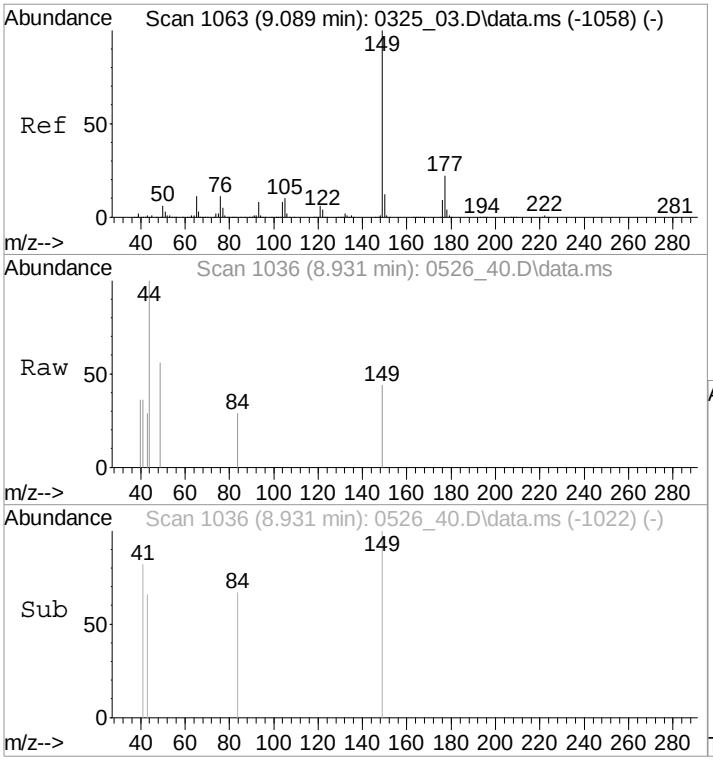


#59
4-Chlorophenyl-phenylether
Concen: N.D.
Expected RT: 9.10 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 204

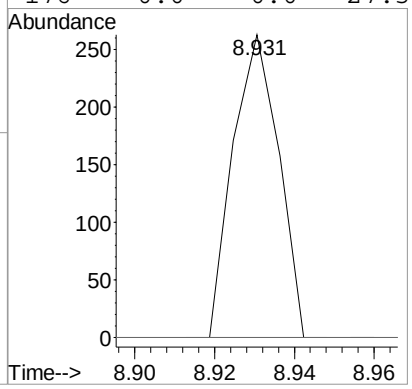
Sig	Exp Ratio
204	100
206	32.5
141	67.2
77	47.0

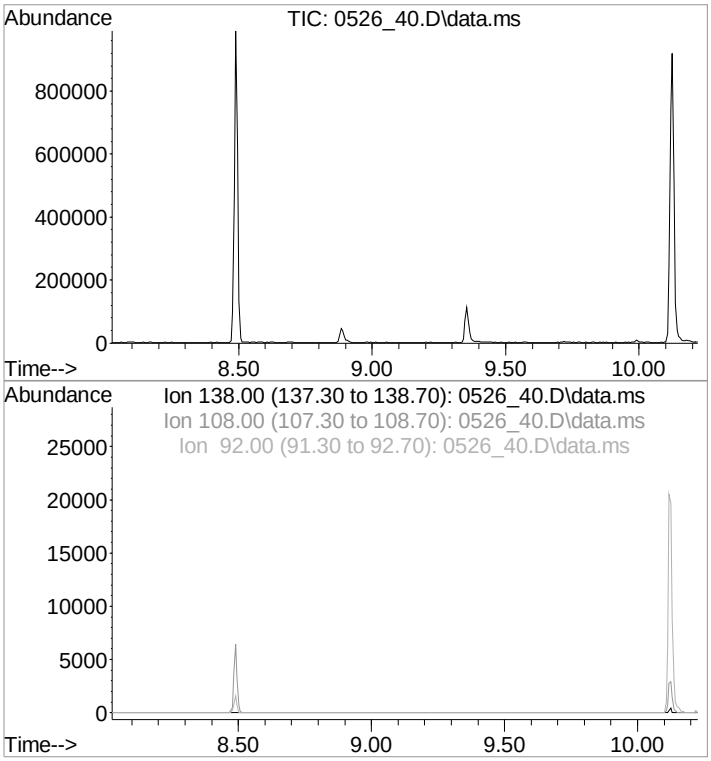


#60
Diethyl phthalate
Concen: Below Cal
RT: 8.931 min Scan# 1036
Delta R.T. -0.018 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:149 Resp: 209

Ion	Ratio	Lower	Upper
149	100		
177	0.0	0.0	39.8
150	0.0	0.0	32.1
176	0.0	0.0	27.3



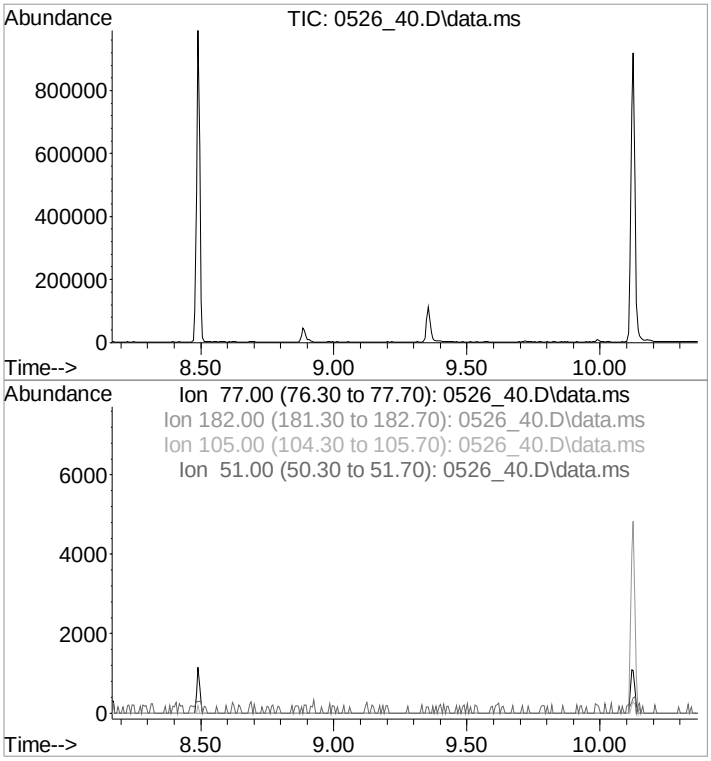


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.12 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
108	81.6
92	51.9

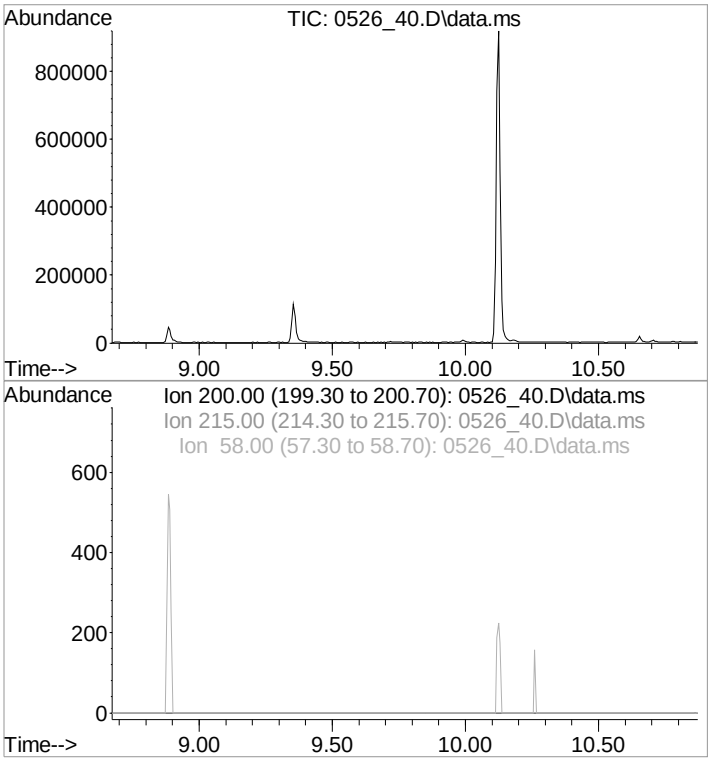


#62
Azobenzene
Concen: N.D.
Expected RT: 9.27 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 77

Sig	Exp Ratio
77	100
182	23.3
105	15.9
51	39.0

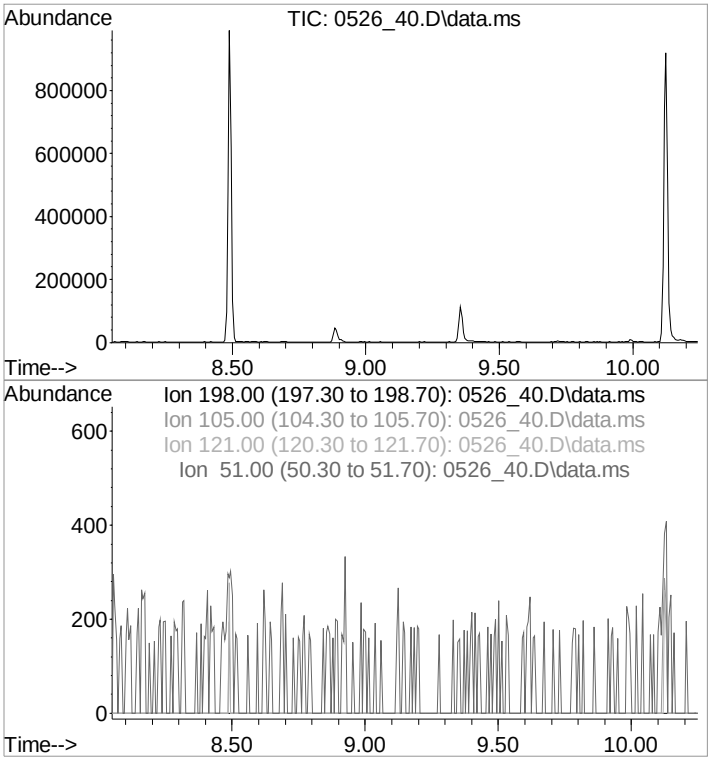


#63
Atrazine
Concen: N.D.
Expected RT: 9.77 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 200

Sig	Exp Ratio
200	100
215	47.1
58	80.3

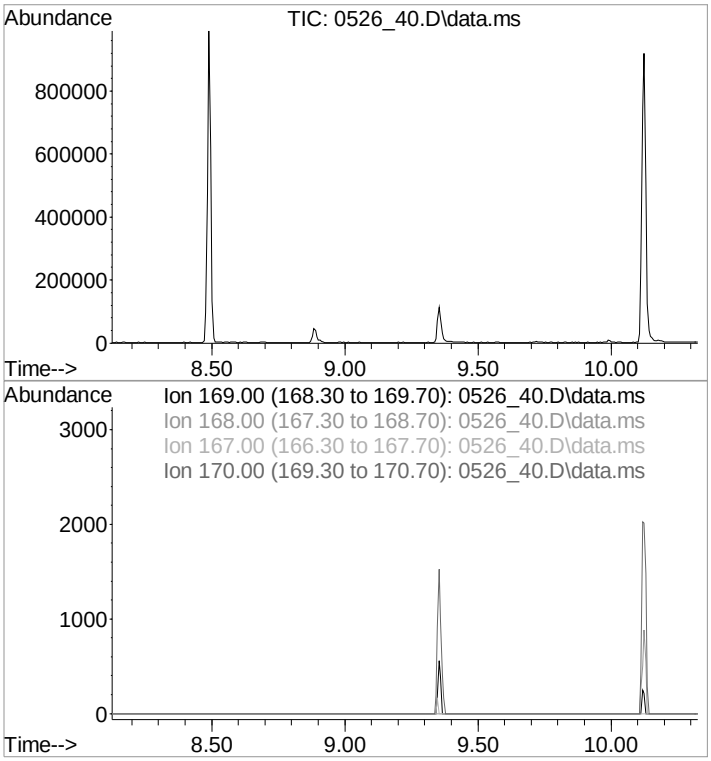


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.15 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 198

Sig	Exp Ratio
198	100
105	45.7
121	44.0
51	53.3

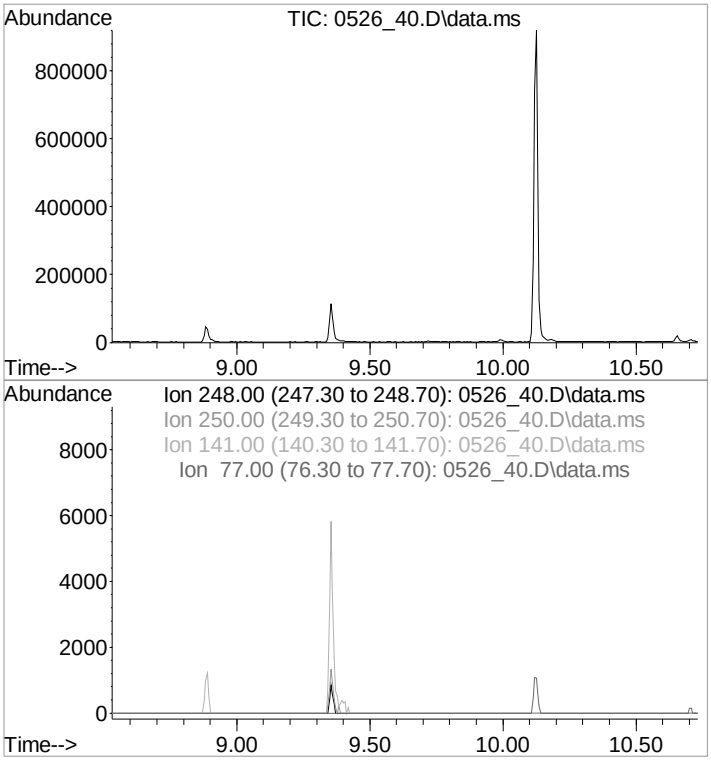


#66
N-Nitrosodiphenylamine
Concen: N.D.
Expected RT: 9.22 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 169

Sig	Exp Ratio
169	100
168	63.6
167	34.5
170	12.6

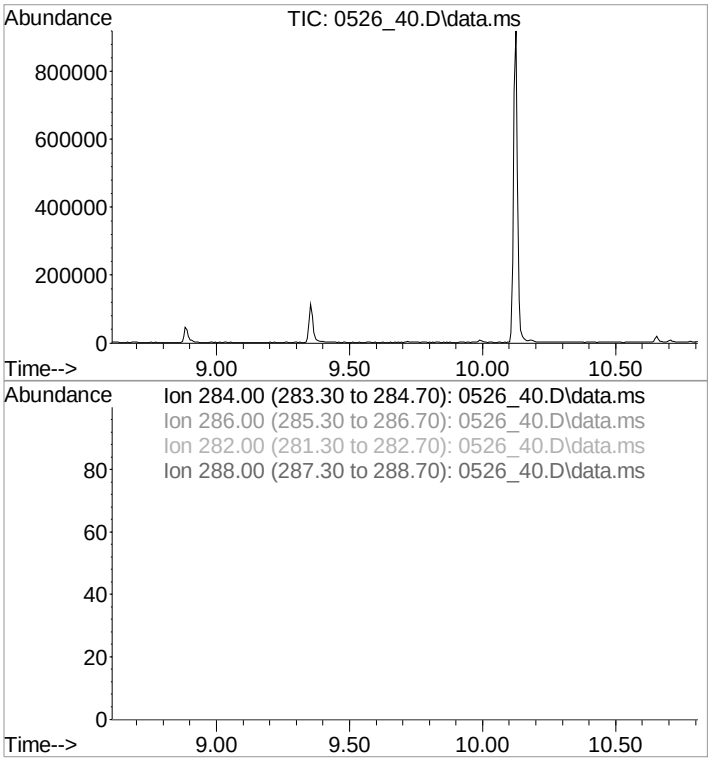


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.63 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	96.0
141	100.7
77	88.4

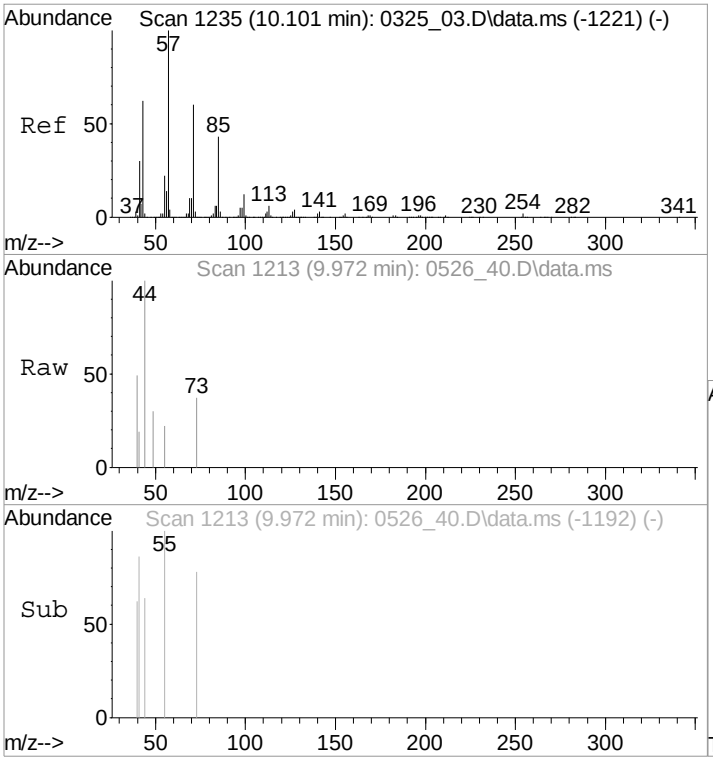


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.71 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 284

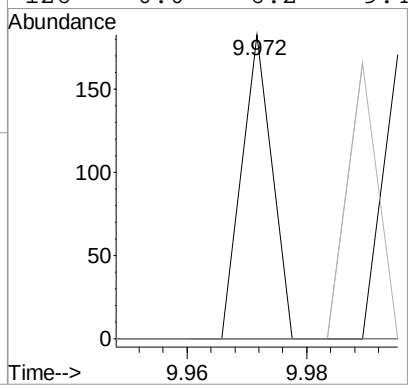
Sig	Exp Ratio
284	100
286	81.5
282	53.0
288	33.1

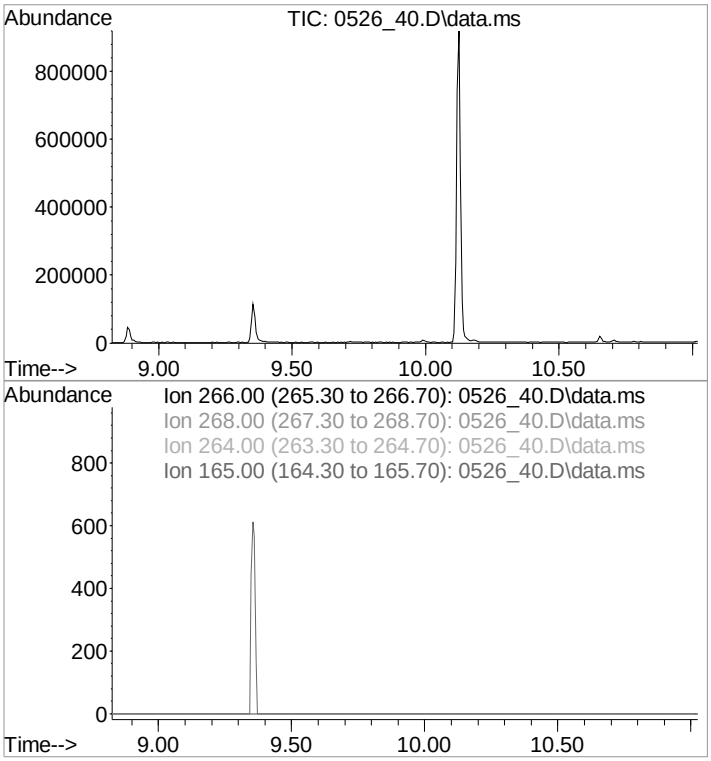


#70
n-octadecane
Concen: Below Cal
RT: 9.972 min Scan# 1213
Delta R.T. 0.024 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 55 Resp: 65

Ion	Ratio	Lower	Upper
55	100		
56	0.0	50.4	75.6#
70	0.0	25.2	37.8#
126	0.0	6.2	9.4#



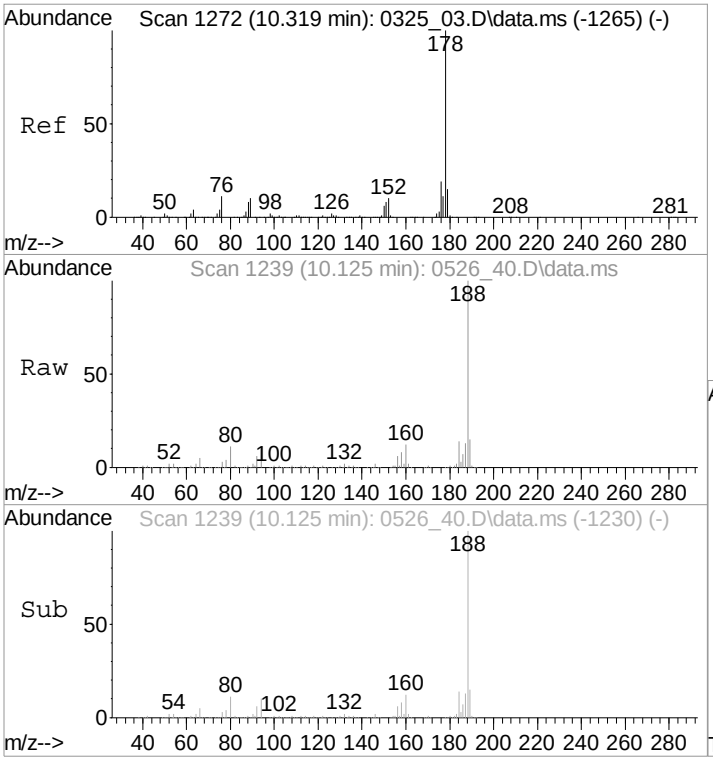


#71
Pentachlorophenol
Concen: N.D.
Expected RT: 9.92 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 266

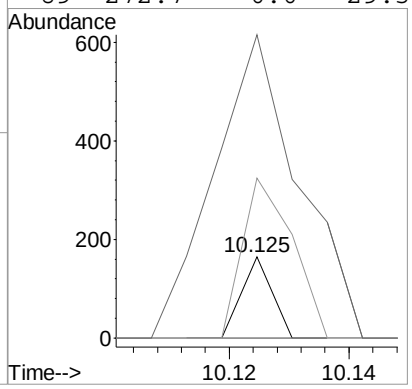
Sig	Exp Ratio
266	100
268	66.1
264	63.0
165	56.0

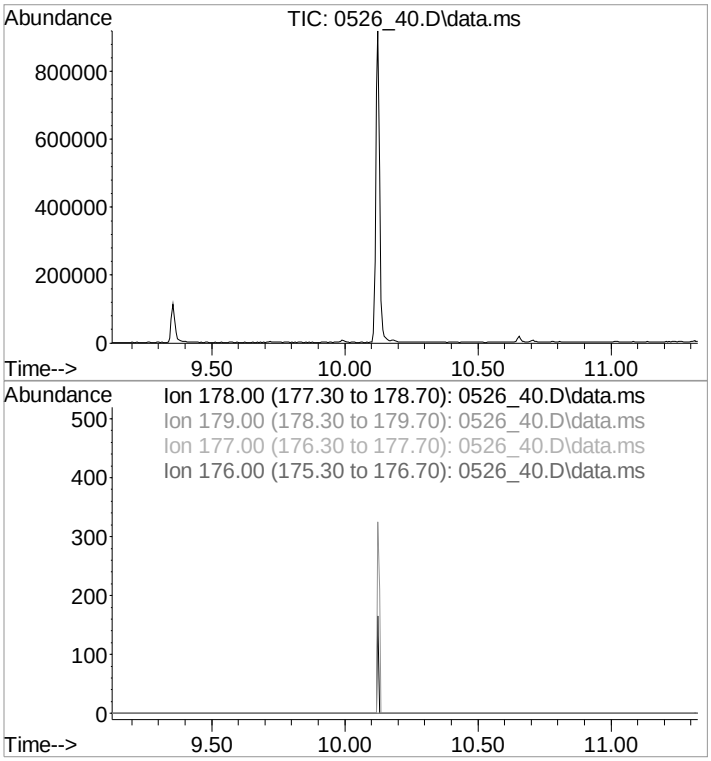


#72
Phenanthrene
Concen: Below Cal
RT: 10.125 min Scan# 1239
Delta R.T. -0.047 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:178 Resp: 58

Ion	Ratio	Lower	Upper
178	100		
179	197.0	0.0	34.7#
152	0.0	0.0	30.3
89	272.7	0.0	29.3#



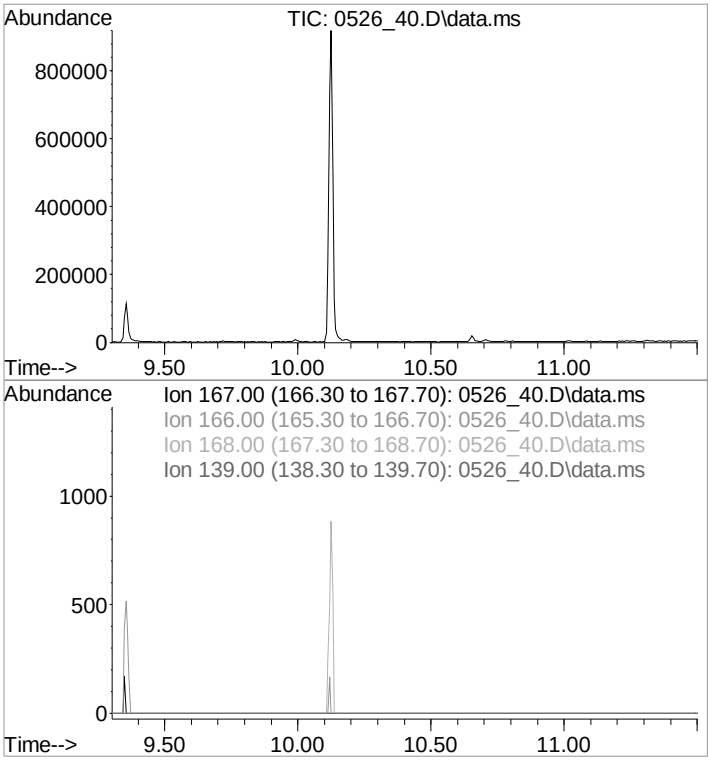


#73
Anthracene
Concen: N.D.
Expected RT: 10.22 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 178

Sig	Exp Ratio
178	100
179	15.6
177	9.9
176	18.6

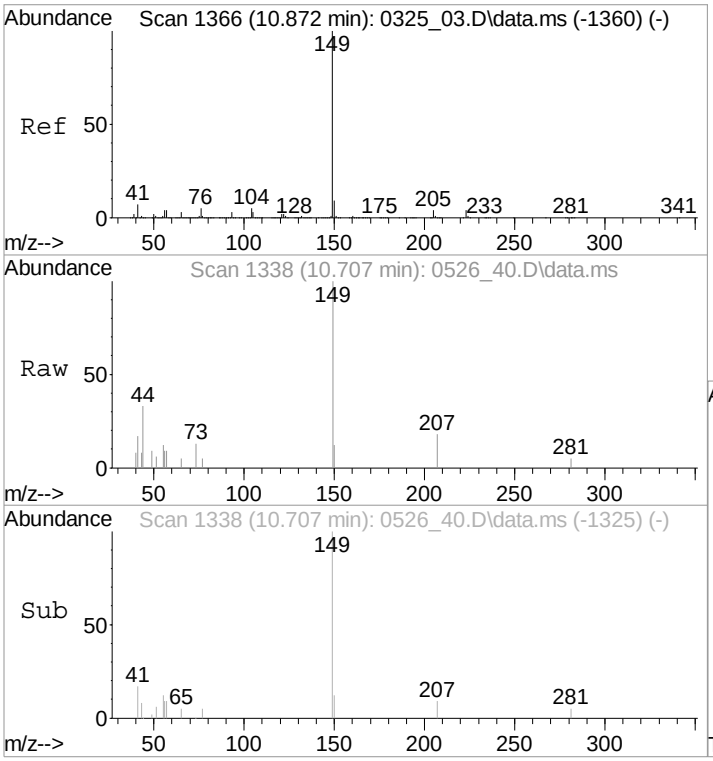


#74
Carbazole
Concen: N.D.
Expected RT: 10.40 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 167

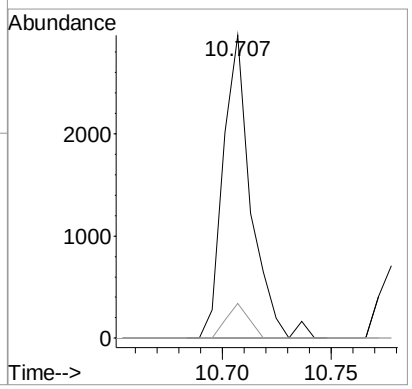
Sig	Exp Ratio
167	100
166	20.9
168	13.5
139	13.7

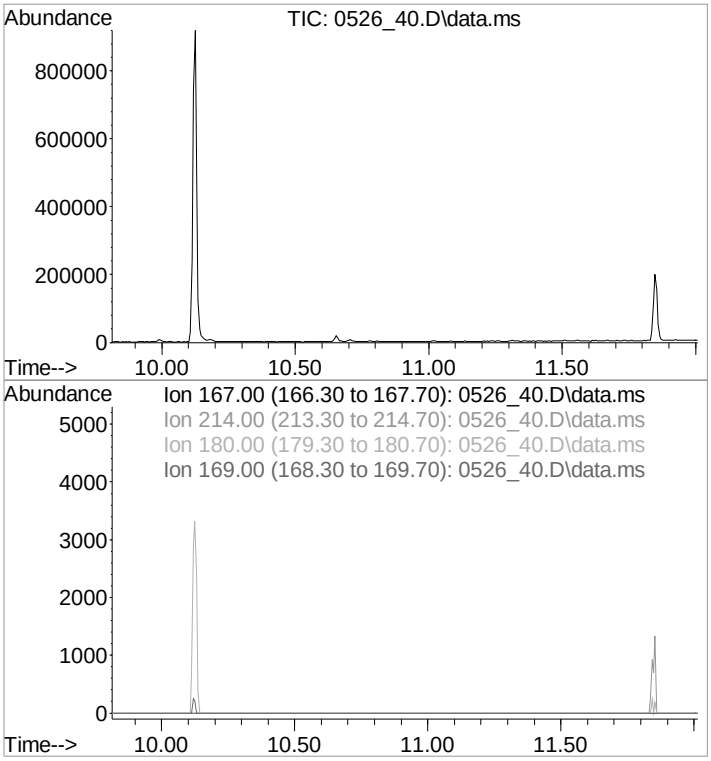


#75
Di-n-butyl phthalate
Concen: 0.1970551 ppb
RT: 10.707 min Scan# 1338
Delta R.T. -0.024 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:149 Resp: 2644

Ion	Ratio	Lower	Upper
149	100		
150	11.6	0.0	28.7
104	0.0	0.0	25.3



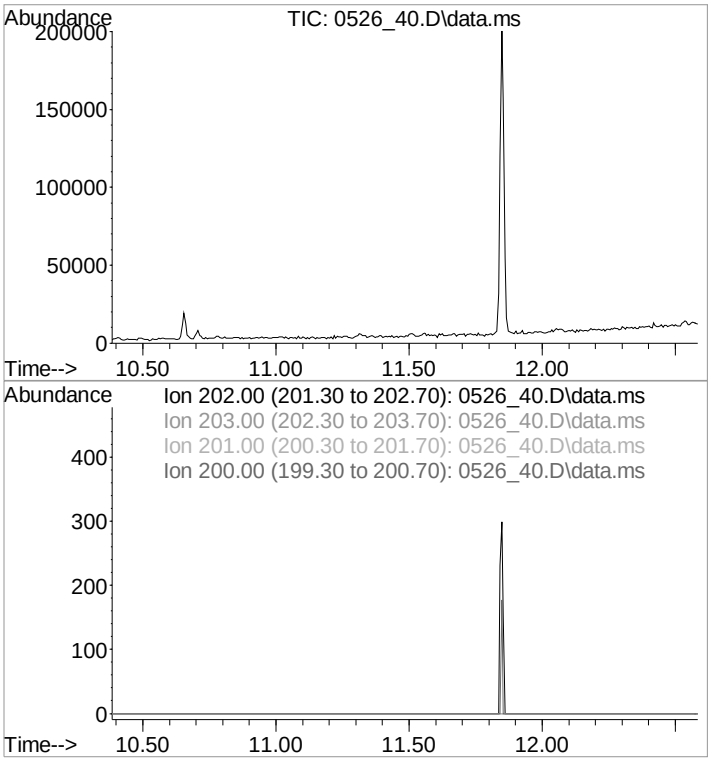


#76
2-nitrodiphenylamine
Concen: N.D.
Expected RT: 10.91 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 167

Sig	Exp Ratio
167	100
214	78.7
180	33.7
169	32.9

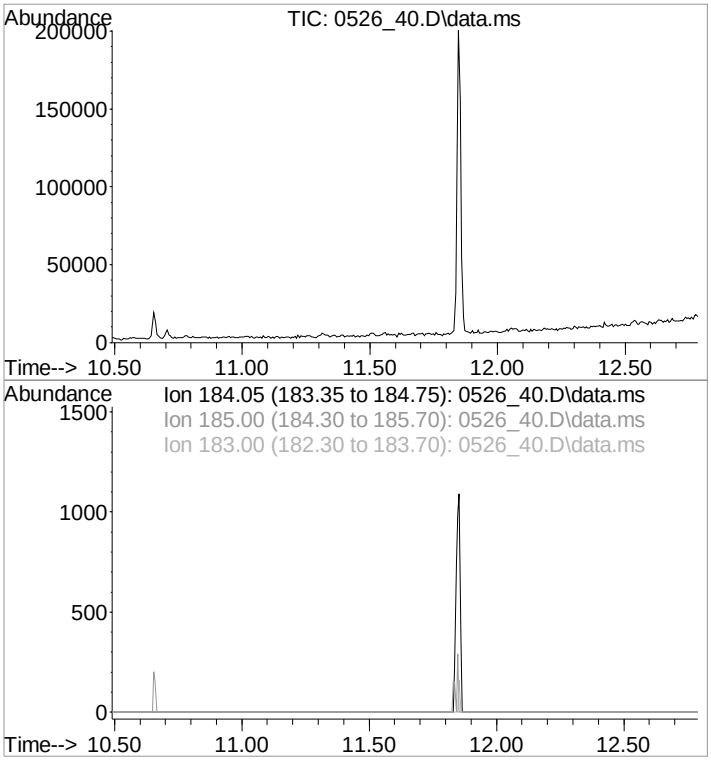


#77
Fluoranthene
Concen: N.D.
Expected RT: 11.48 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 202

Sig	Exp Ratio
202	100
203	17.2
201	14.6
200	20.1

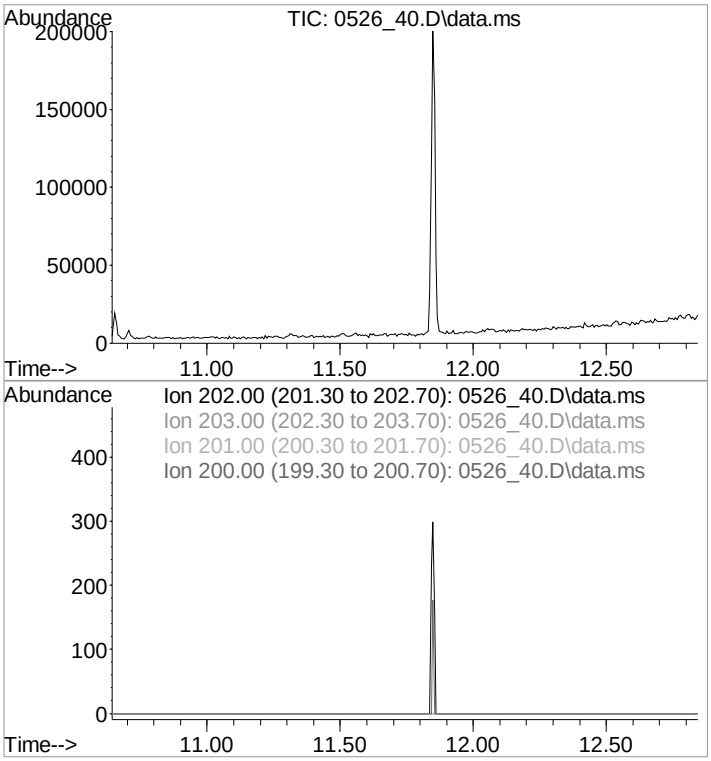


#79
Benzidine
Concen: N.D.
Expected RT: 11.59 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
185	13.4
183	11.7

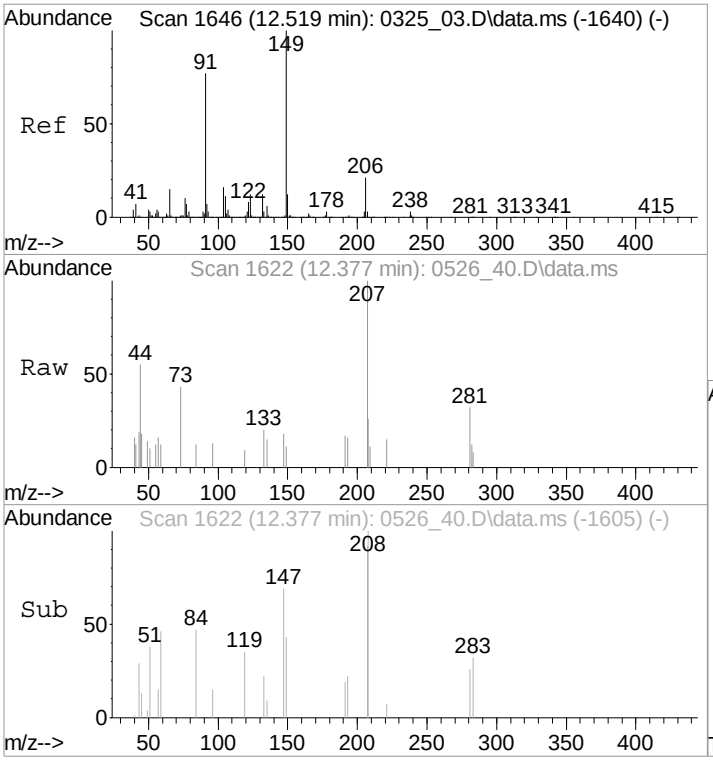


#80
Pyrene
Concen: N.D.
Expected RT: 11.74 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 202

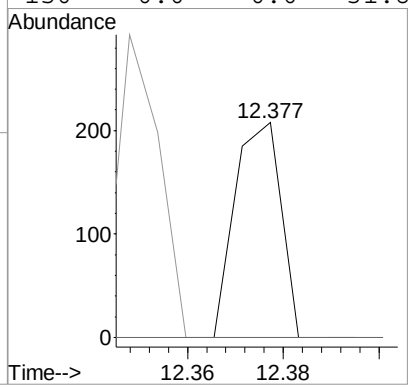
Sig	Exp Ratio
202	100
203	17.4
201	17.1
200	20.0

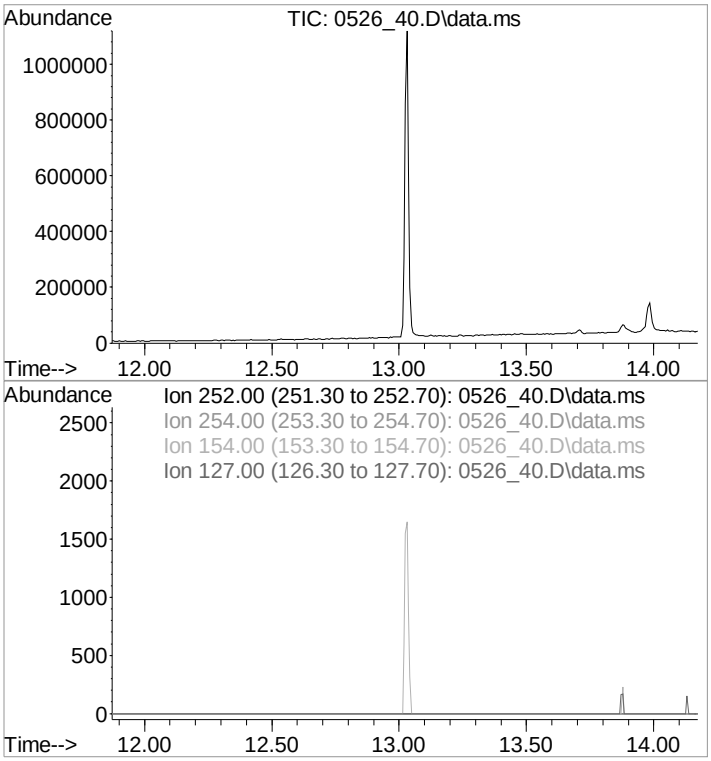


#82
Benzylbutyl phthalate
Concen: Below Cal
RT: 12.377 min Scan# 1622
Delta R.T. -0.000 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:149 Resp: 139

Ion	Ratio	Lower	Upper
149	100		
91	0.0	58.5	98.5#
206	0.0	0.0	38.2
150	0.0	0.0	31.8



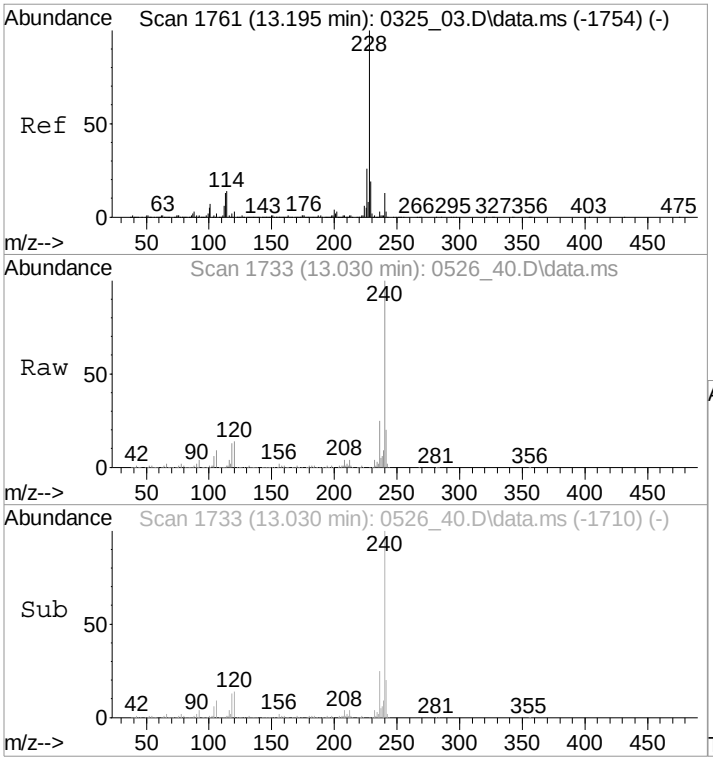


#83
3,3-Dichlorobenzidine
Concen: N.D.
Expected RT: 12.97 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 252

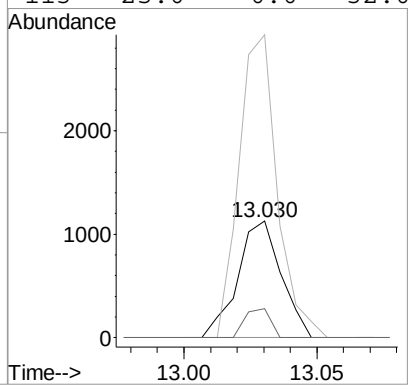
Sig	Exp Ratio
252	100
254	63.0
154	16.0
127	14.0

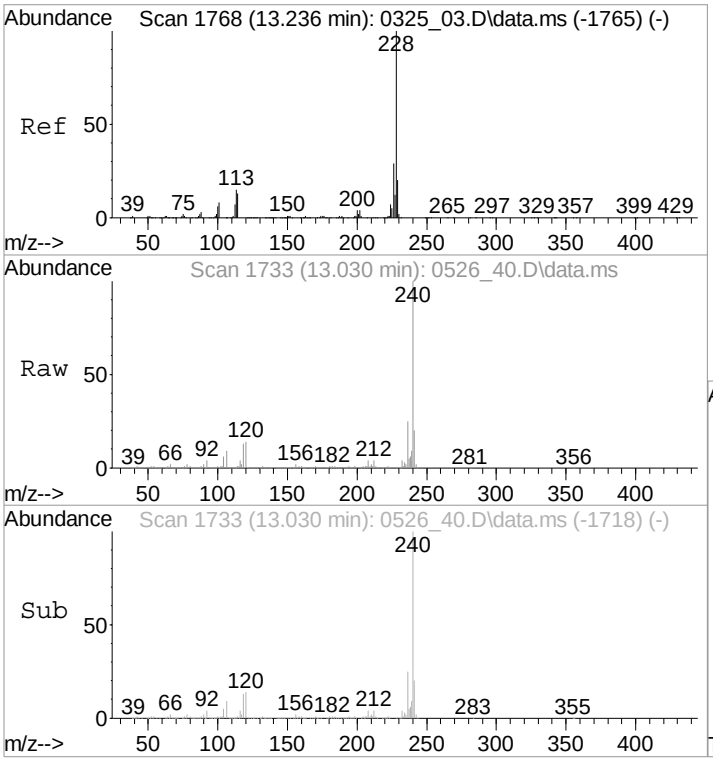


#84
Benzo(a)anthracene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.018 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:228 Resp: 1282

Ion	Ratio	Lower	Upper
228	100		
226	0.0	6.1	46.1#
114	260.5	0.0	33.0#
113	25.0	0.0	32.0

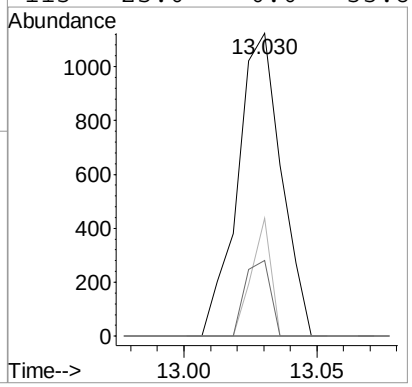


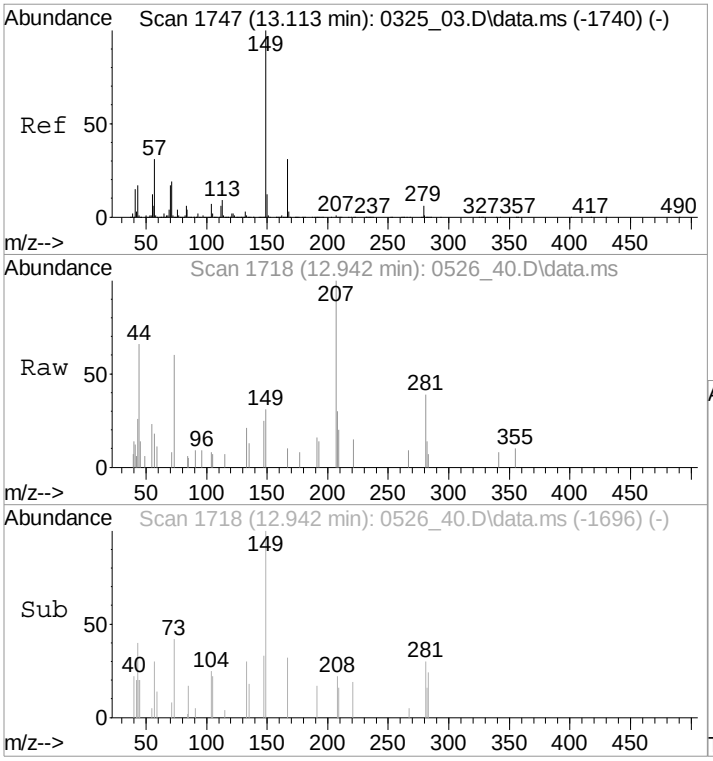


#85
Chrysene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.059 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:228 Resp: 1282

Ion	Ratio	Lower	Upper
228	100		
226	0.0	9.0	49.0#
229	38.8	0.0	39.4
113	25.0	0.0	33.8

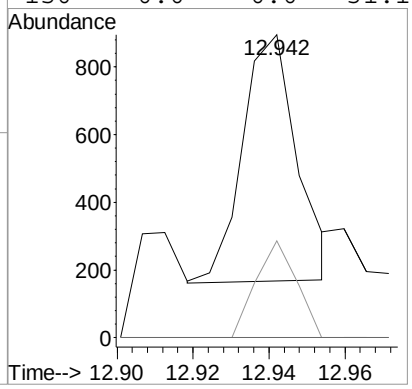


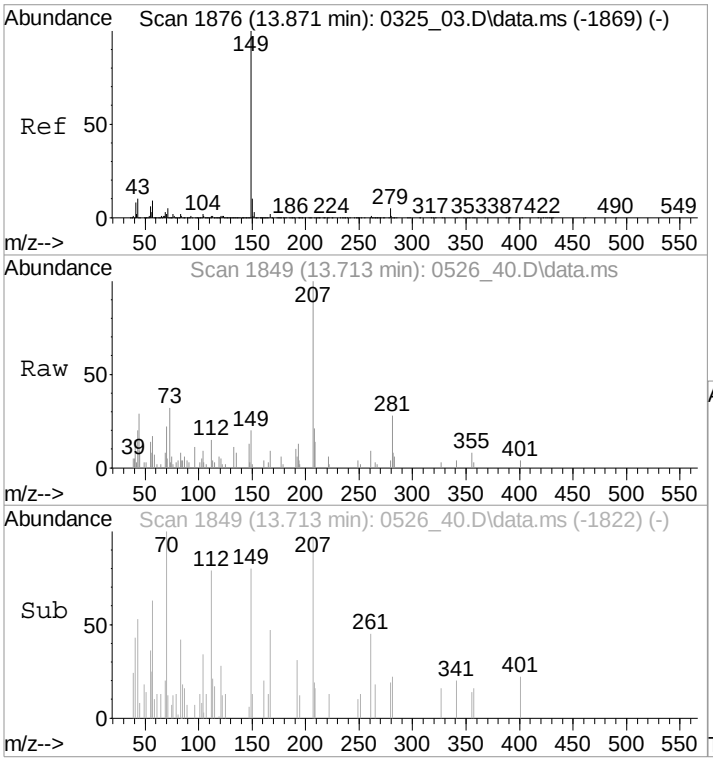


#86
bis(2-Ethylhexyl)phthalate
Concen: Below Cal m
RT: 12.942 min Scan# 1718
Delta R.T. -0.024 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:149 Resp: 728

Ion	Ratio	Lower	Upper
149	100		
167	32.0	8.4	48.4
279	0.0	0.0	25.2
150	0.0	0.0	31.1

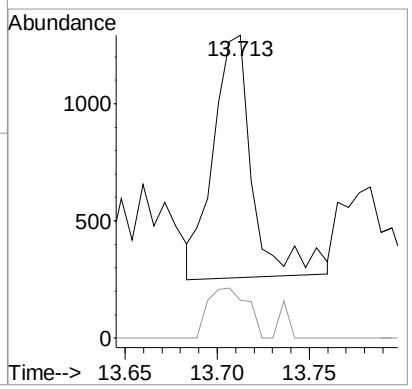


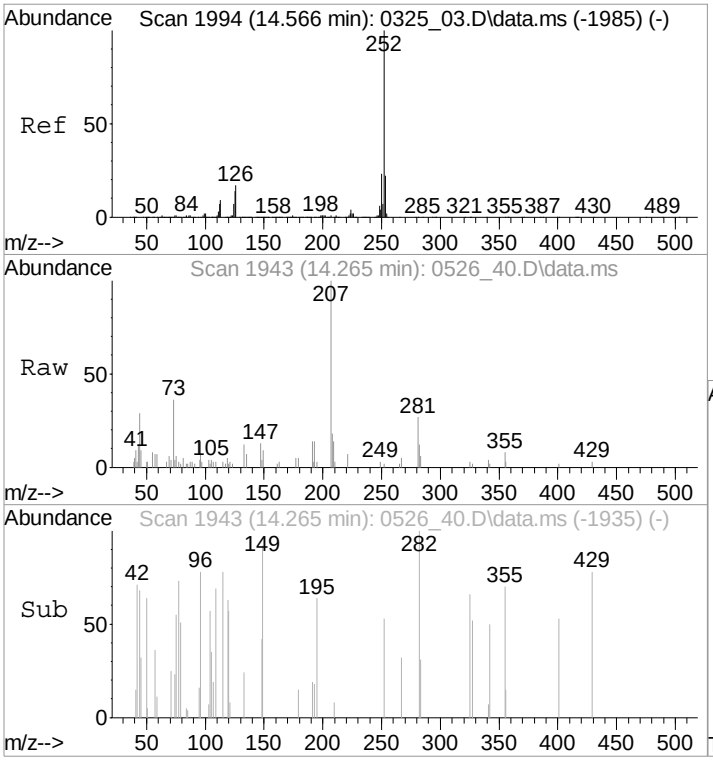


#87
Di-n-octyl phthalate
Concen: Below Cal
RT: 13.713 min Scan# 1849
Delta R.T. 0.012 min
Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:149 Resp: 1535

Ion	Ratio	Lower	Upper
149	100		
150	16.6	0.0	29.5

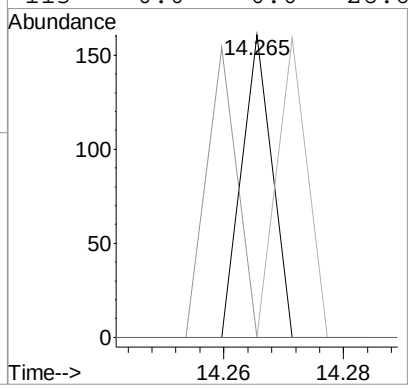


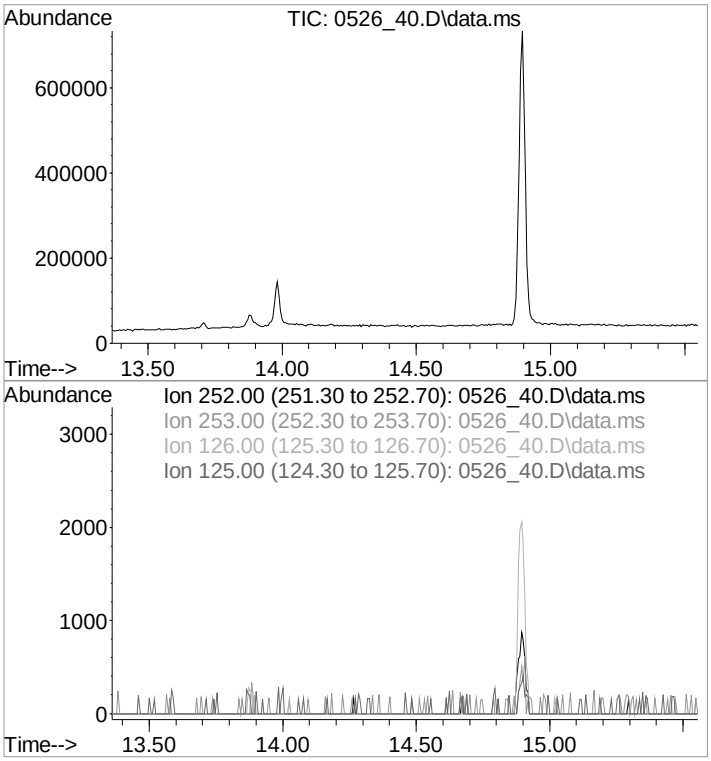


#89
Benzo(b)fluoranthene
Concen: Below Cal
RT: 14.265 min Scan# 1943
Delta R.T. -0.100 min
Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion:252 Resp: 57

Ion	Ratio	Lower	Upper
252	100		
253	0.0	1.8	41.8#
126	0.0	0.0	36.3
113	0.0	0.0	28.6



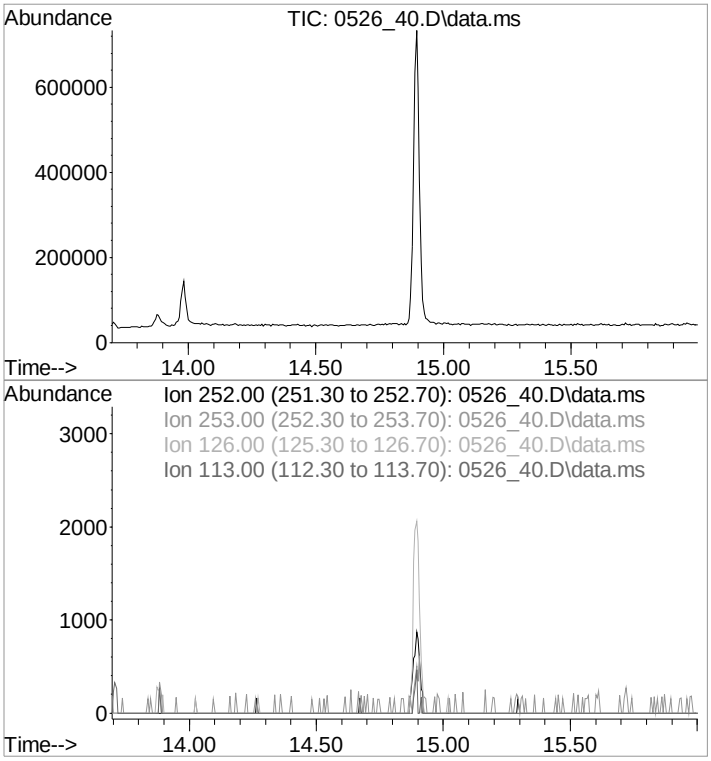


#90
Benzo(k)fluoranthene
Concen: N.D.
Expected RT: 14.40 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 252

Sig	Exp Ratio
252	100
253	21.3
126	19.4
125	13.3

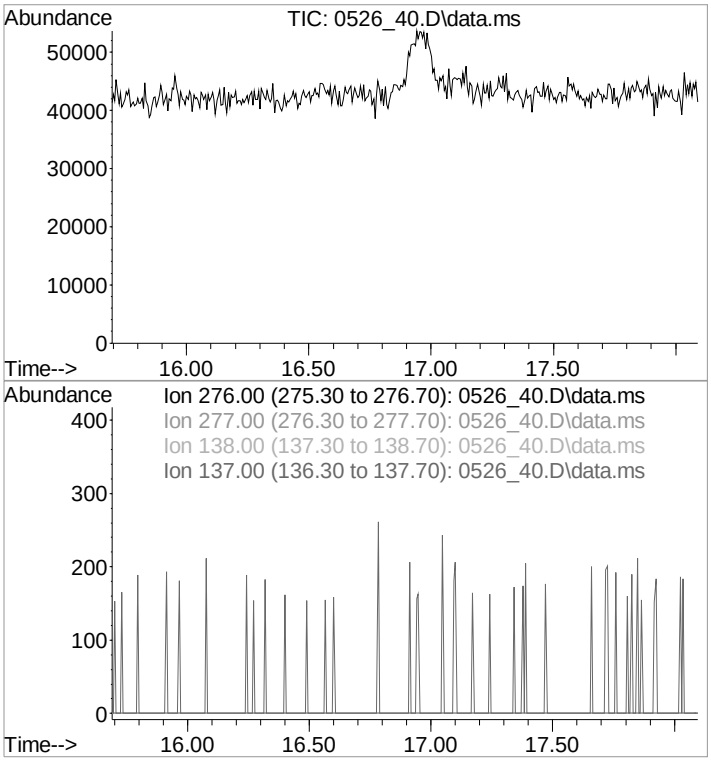


#91
Benzo(a)pyrene
Concen: N.D.
Expected RT: 14.85 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 252

Sig	Exp Ratio
252	100
253	21.7
126	19.6
113	12.2

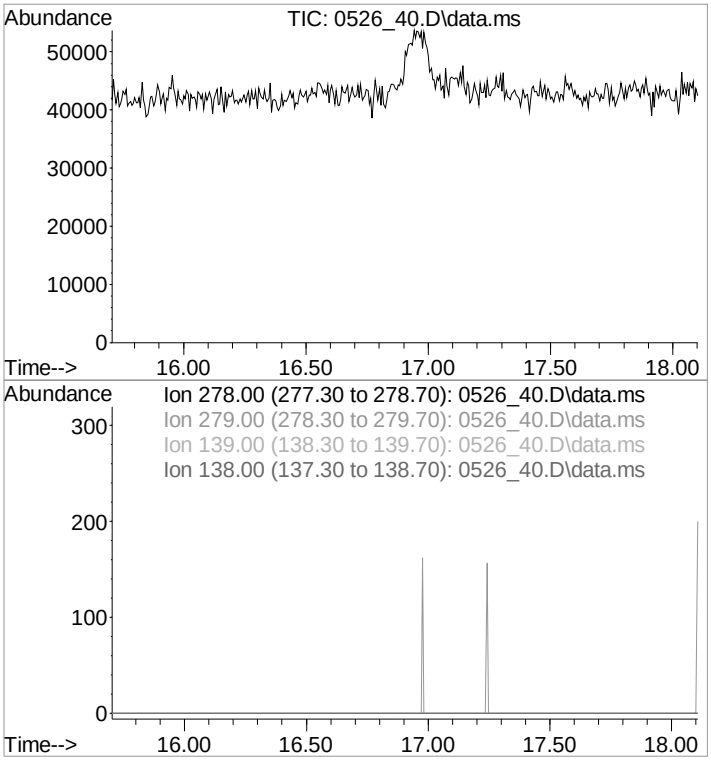


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 16.84 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
277	24.7
138	35.5
137	23.2

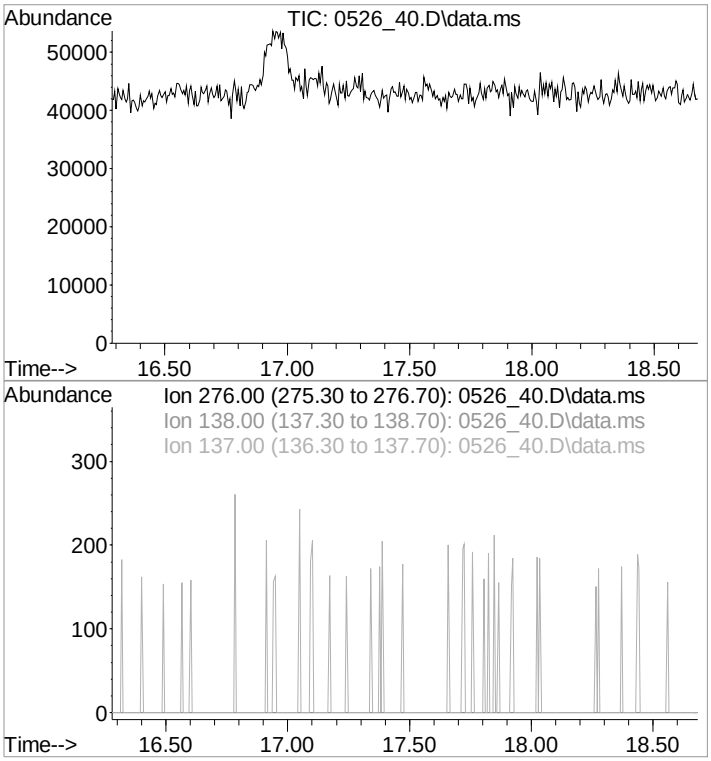


#93
Dibenz(a,h)anthracene
Concen: N.D.
Expected RT: 16.85 min

Lab File: 0526 40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 278

Sig	Exp Ratio
278	100
279	23.4
139	21.9
138	32.3



#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.43 min

Lab File: 0526_40.D
Acq: 27 May 2015 6:31 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	30.7
137	26.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 47.D
Acq On : 27 May 2015 9:15 pm
Operator : 377
Sample : L767115-02 1.25x WG791571 80-0.5
Misc : water 15E04055/15E11539
ALS Vial : 15 Sample Multiplier: 0.0062
InstName : BNAMS23

Quant Time: May 28 11:28:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	67881	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	268220	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.490	164	186504	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	349039	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	399192	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	391354	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	24530	14.9293508 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 74.65%		
7) Phenol-d5	4.954	99	28831	12.8519990 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 64.26%		
23) Nitrobenzene-d5	5.849	82	22858	10.0608846 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 100.61%		
44) 2-Fluorobiphenyl	7.743	172	44950	9.3093374 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 93.09%		
67) 2,4,6-Tribromophenol	9.360	330	17436	23.4981659 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 117.49%		
81) p-Terphenyl-d14	11.848	244	68065	8.4870929 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 84.87%		
Target Compounds					Qvalue
2) Pyridine	3.219	79	193	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	5.043	66	112	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.913	105	194	0.2073025 ppb #	1
10) 2-Chlorophenol	5.154	128	193	N.D.	
11) n-Decane	5.125	41	18115	13.7045631 ppb #	1
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.696	105	1305	0.4506431 ppb #	34
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	6.096	82	3609m	0.8916521 ppb	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.613	128	3297	0.5302675 ppb #	49
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.025	113	2572	4.1703799 ppb #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 47.D
Acq On : 27 May 2015 9:15 pm
Operator : 377
Sample : L767115-02 1.25x WG791571 80-0.5
Misc : water 15E04055/15E11539
ALS Vial : 15 Sample Multiplier: 0.0062
InstName : BNAMS23

Quant Time: May 28 11:28:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d	
37) 2-Methylnaphthalene	7.419	142	1542	0.3541151 ppb #	1
38) 1-Methylnaphthalene	7.460	142	2000	0.5197623 ppb #	1
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	7.843	154	1023	0.1920388 ppb #	1
46) 2-Chloronaphthalene	7.895	162	359	N.D.	
47) 2-Nitroaniline	0.000		0	N.D. d	
48) Acenaphthylene	8.272	152	2898	0.4295445 ppb	73
49) Dimethyl phthalate	0.000		0	N.D. d	
50) 2,6-Dinitrotoluene	0.000		0	N.D. d	
51) 3-Nitroaniline	0.000		0	N.D. d	
52) Acenaphthene	8.554	153	568	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D. d	
54) Dibenzofuran	8.713	168	3578m	0.5614385 ppb	
55) 2,4-Dinitrotoluene	0.000		0	N.D. d	
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57) 4-Nitrophenol	0.000		0	N.D. d	
58) Fluorene	9.078	166	1333	0.2532946 ppb #	49
59) 4-Chlorophenyl-phenyle...	9.113	204	56	N.D.	
60) Diethyl phthalate	0.000		0	N.D. d	
61) 4-Nitroaniline	0.000		0	N.D. d	
62) Azobenzene	0.000		0	N.D. d	
63) Atrazine	9.748	200	451	0.3426121 ppb #	31
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D. d	
66) N-Nitrosodiphenylamine	9.219	169	373	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.937	55	4324	3.2128882 ppb #	61
71) Pentachlorophenol	0.000		0	N.D.	
72) Phenanthrene	10.142	178	2183	0.2514292 ppb #	1
73) Anthracene	10.231	178	385	N.D.	
74) Carbazole	10.384	167	673	N.D.	
75) Di-n-butyl phthalate	10.707	149	5747	0.5334315 ppb	89
76) 2-nitrodiphenylamine	10.907	167	823	4.4947126 ppb #	60
77) Fluoranthene	11.466	202	530	N.D.	
79) Benzidine	11.583	184	249	4.2139597 ppb #	1
80) Pyrene	11.778	202	132	N.D.	
82) Benzylbutyl phthalate	12.354	149	237	N.D.	
83) 3,3-Dichlorobenzidine	13.019	252	176	N.D.	
84) Benzo(a)anthracene	13.030	228	1447	0.1334381 ppb #	1
85) Chrysene	13.066	228	152	N.D.	
86) bis(2-Ethylhexyl)phtha...	12.942	149	2371	0.2764135 ppb	96
87) Di-n-octyl phthalate	0.000		0	N.D. d	
89) Benzo(b)fluoranthene	14.366	252	59	N.D.	
90) Benzo(k)fluoranthene	14.383	252	64	N.D.	
91) Benzo(a)pyrene	14.895	252	2139	0.2219955 ppb #	1
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 47.D
Acq On : 27 May 2015 9:15 pm
Operator : 377
Sample : L767115-02 1.25x WG791571 80-0.5
Misc : water 15E04055/15E11539
ALS Vial : 15 Sample Multiplier: 0.0062
InstName : BNAMS23

Quant Time: May 28 11:28:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

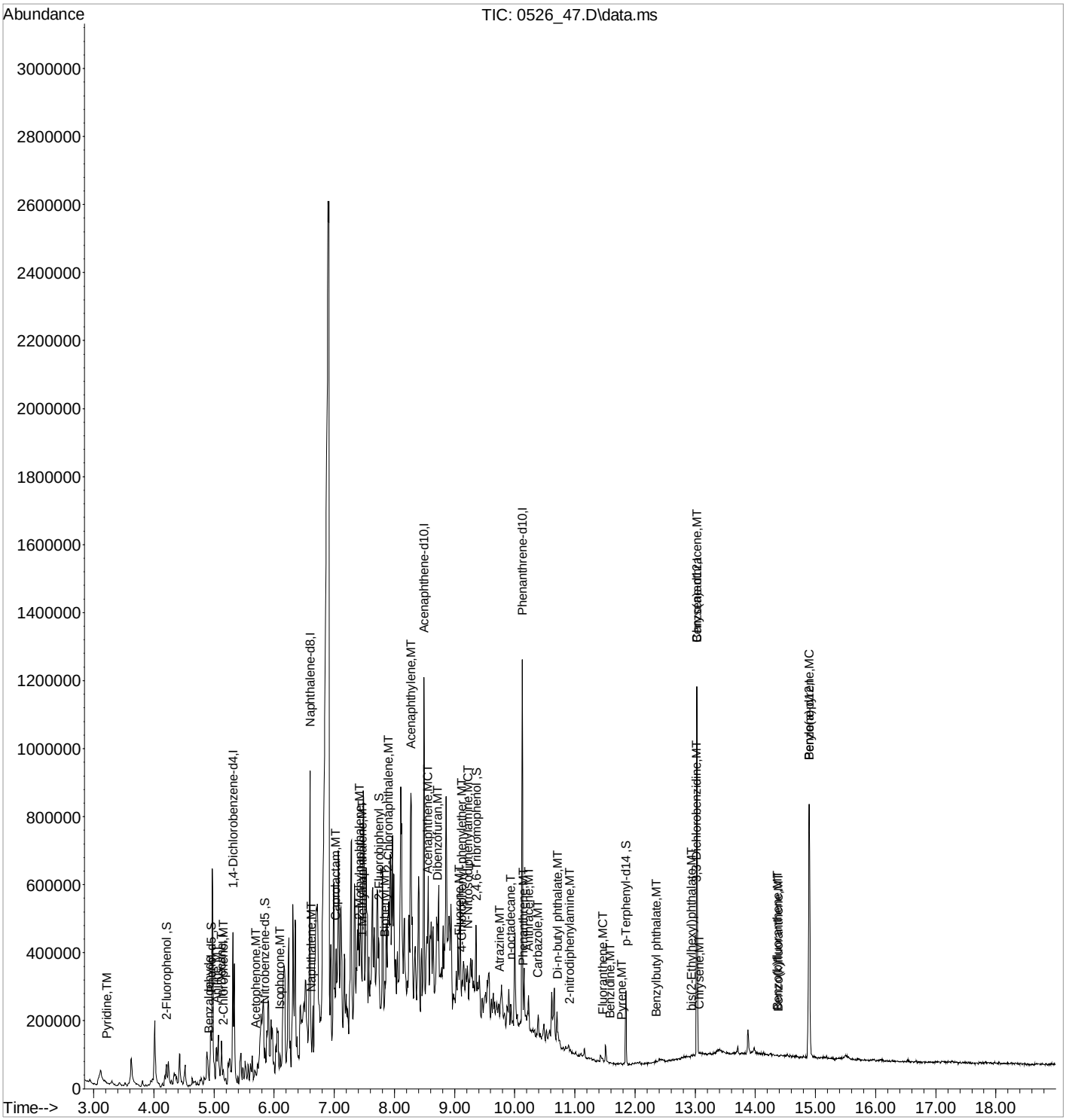
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

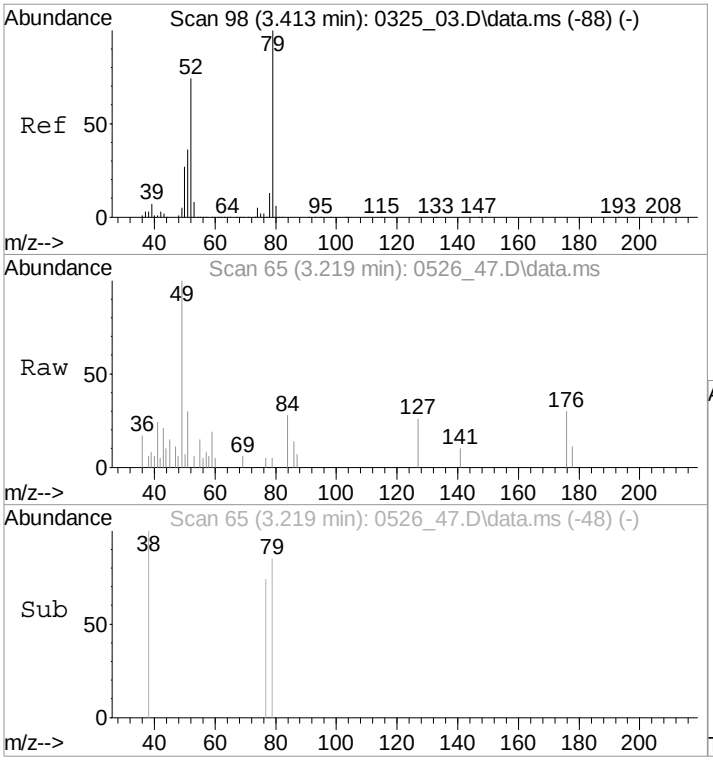
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 47.D
Acq On : 27 May 2015 9:15 pm
Operator : 377
Sample : L767115-02 1.25x WG791571 80-0.5
Misc : water 15E04055/15E11539
ALS Vial : 15 Sample Multiplier: 0.0062
InstName : BNAMS23

Quant Time: May 28 11:28:11 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

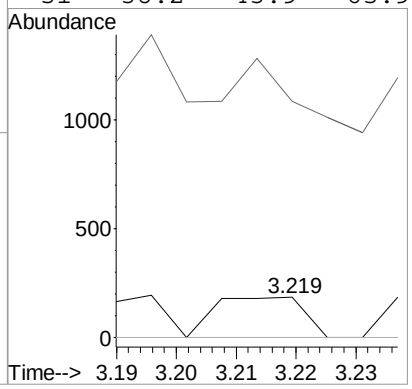


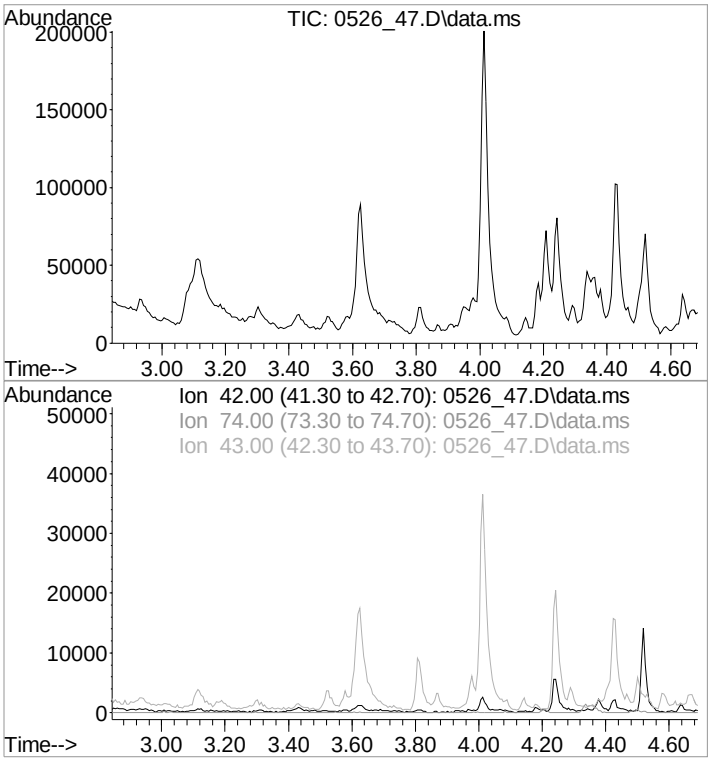


#2
Pyridine
Concen: Below Cal
RT: 3.219 min Scan# 65
Delta R.T. 0.000 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 79 Resp: 193

Ion	Ratio	Lower	Upper
79	100		
52	0.0	95.4	143.0#
78	0.0	10.3	15.5#
51	38.2	43.9	65.9#



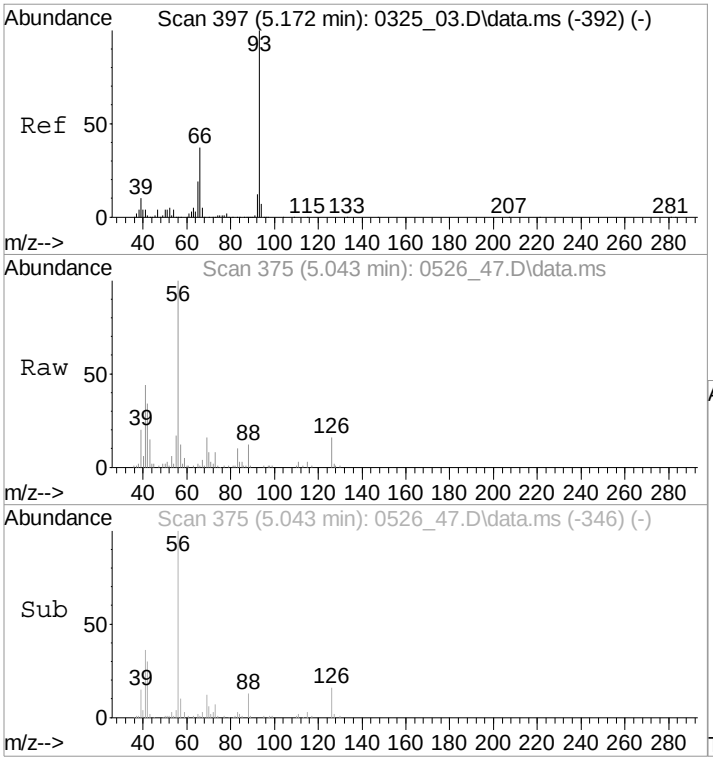


#3
N-Nitrosodimethylamine
Concen: N.D.
Expected RT: 3.19 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 42

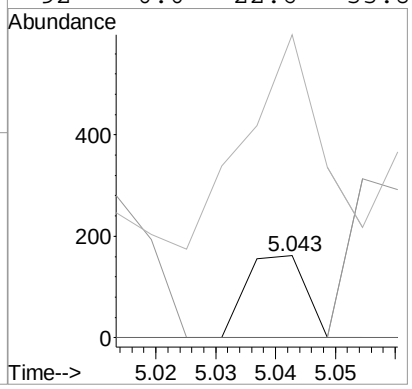
Sig	Exp Ratio
42	100
74	89.6
43	50.7

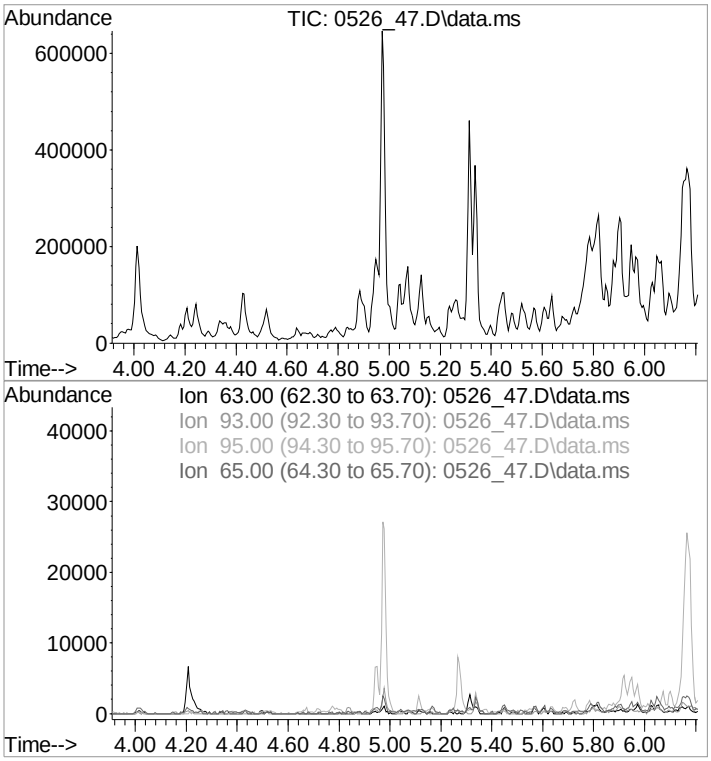


#5
Aniline
Concen: Below Cal
RT: 5.043 min Scan# 375
Delta R.T. 0.018 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 66 Resp: 112

Ion	Ratio	Lower	Upper
66	100		
93	0.0	176.8	265.2#
65	2475.0	40.7	61.1#
92	0.0	22.6	33.8#



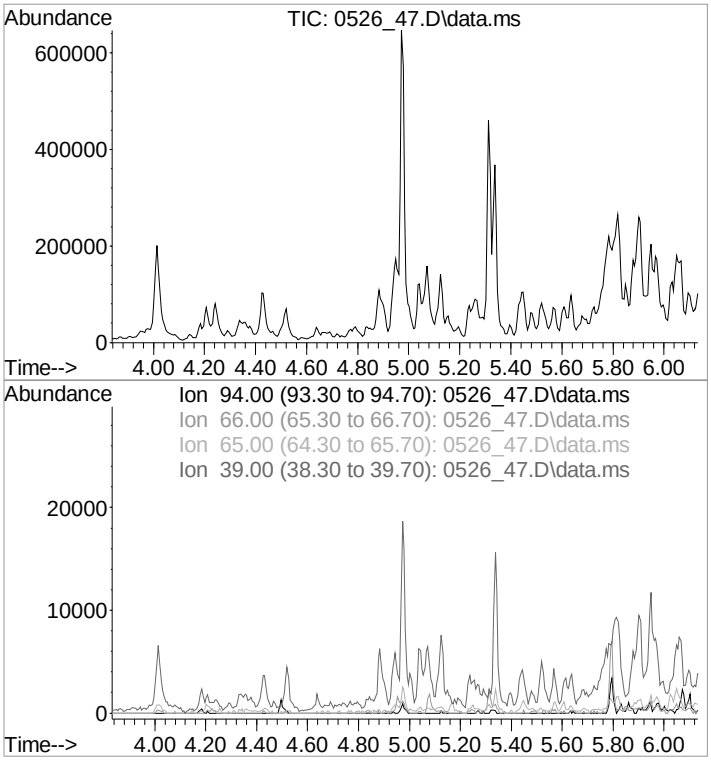


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.06 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
93	103.8
95	34.5
65	30.4

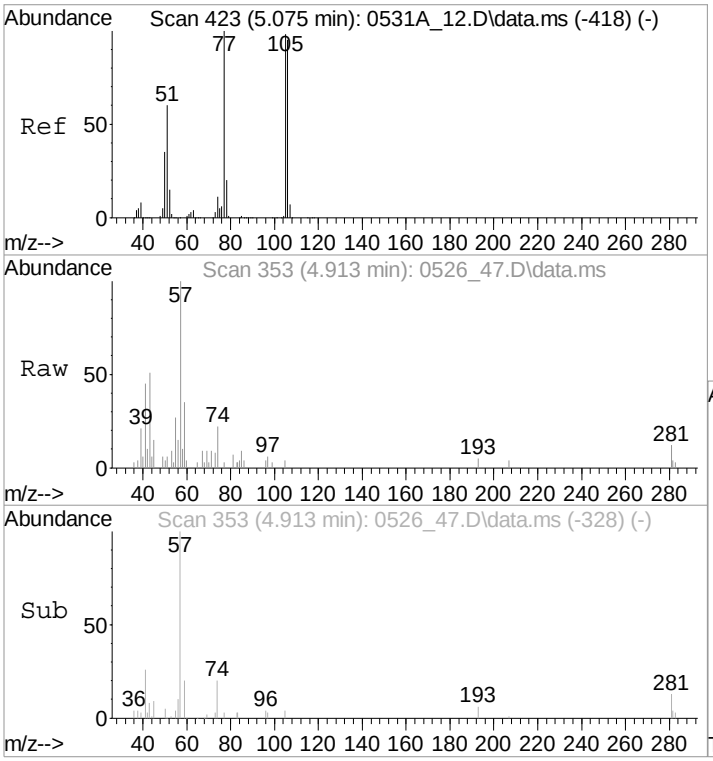


#8
Phenol
Concen: N.D.
Expected RT: 4.98 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 94

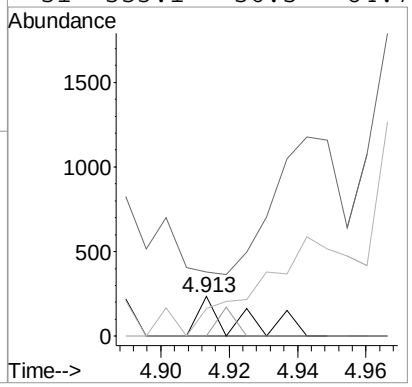
Sig	Exp Ratio
94	100
66	50.4
65	35.5
39	29.9

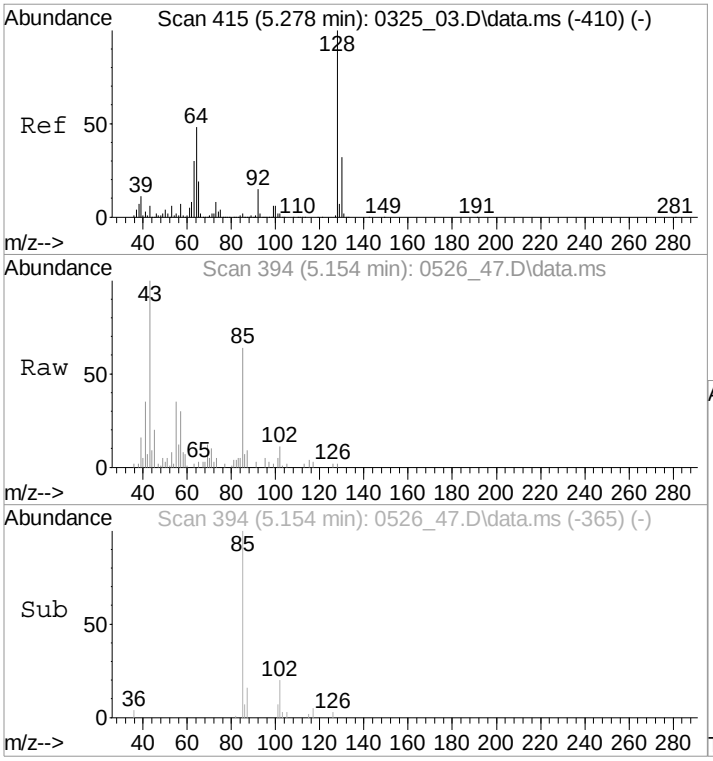


#9
Benzaldehyde
Concen: 0.2073025 ppb
RT: 4.913 min Scan# 353
Delta R.T. -0.006 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:105 Resp: 194

Ion	Ratio	Lower	Upper
105	100		
106	30.9	78.0	117.0#
77	605.2	87.4	131.0#
51	553.1	56.5	84.7#

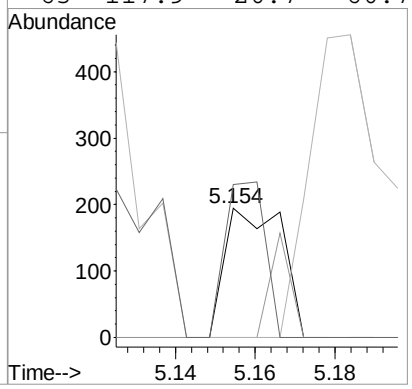


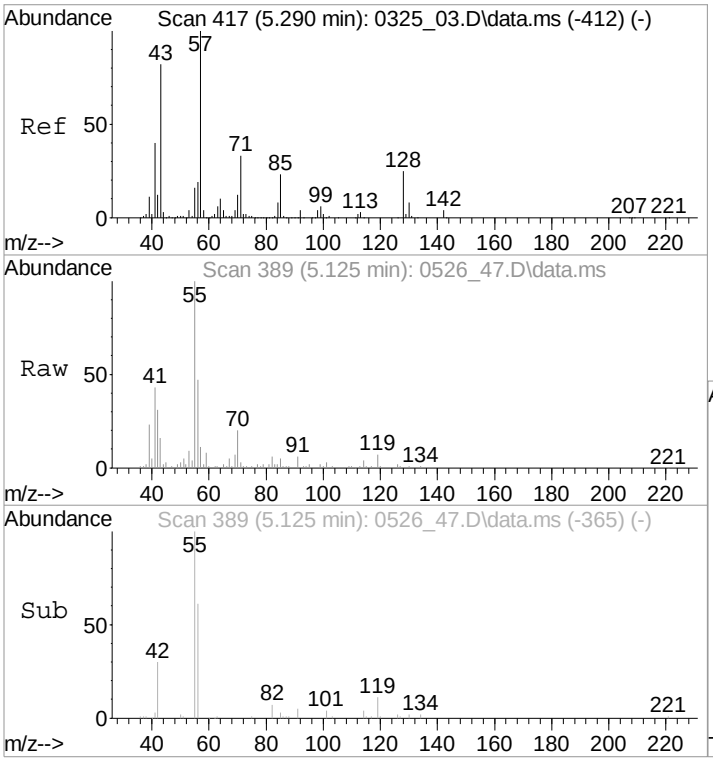


#10
2-Chlorophenol
Concen: Below Cal
RT: 5.154 min Scan# 394
Delta R.T. 0.018 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:128 Resp: 193

Ion	Ratio	Lower	Upper
128	100		
64	0.0	36.2	76.2#
130	0.0	12.1	52.1#
63	117.9	20.7	60.7#

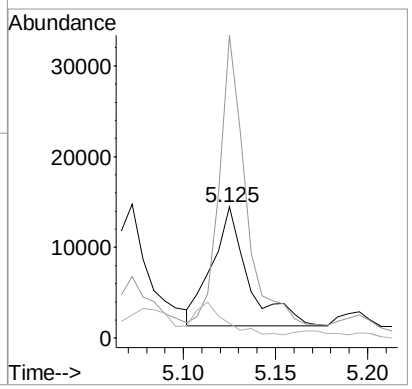


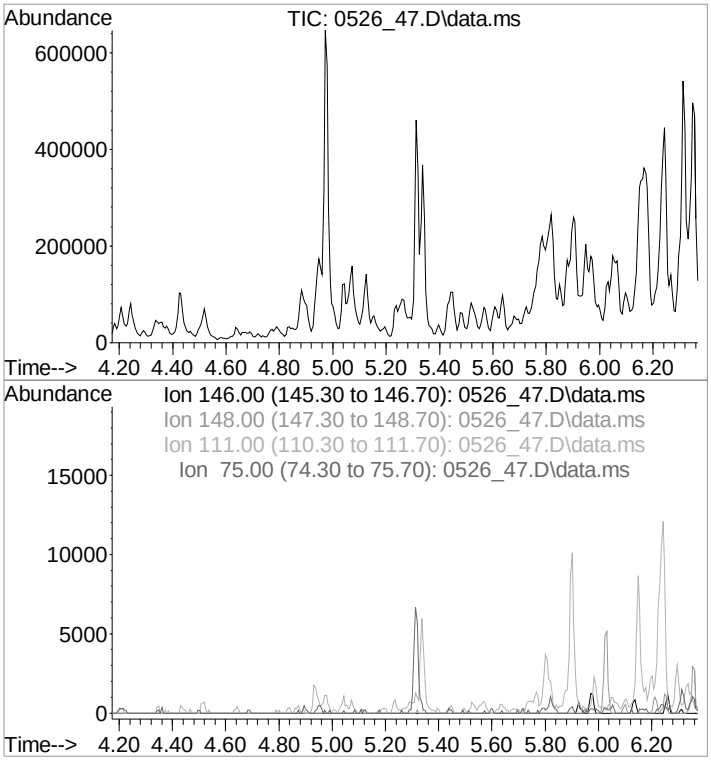


#11
n-Decane
Concen: 13.7045631 ppb
RT: 5.125 min Scan# 389
Delta R.T. -0.012 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 41 Resp: 18115

Ion	Ratio	Lower	Upper
41	100		
55	173.5	31.7	47.5#
67	37.8	2.2	3.2#



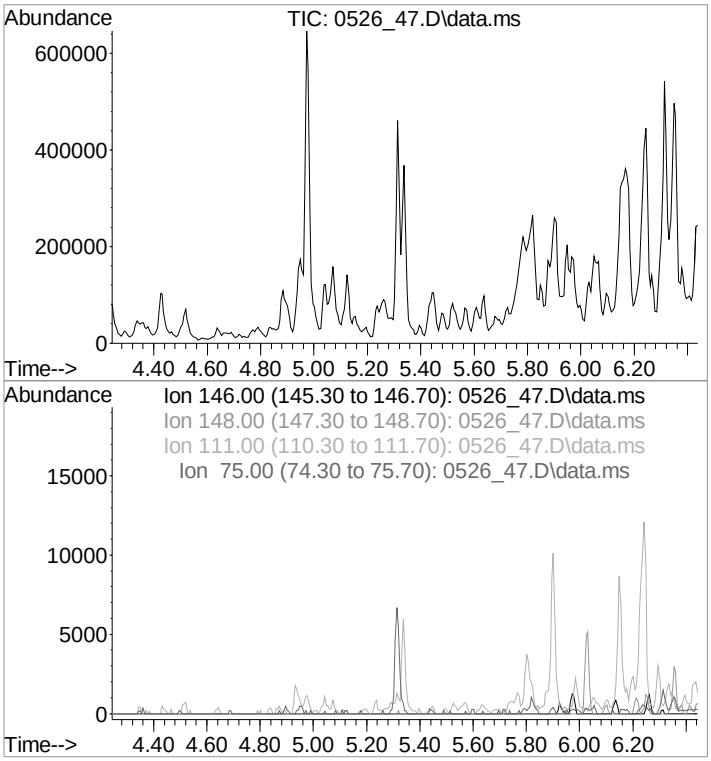


#12
1,3-Dichlorobenzene
Concen: N.D.
Expected RT: 5.27 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	61.0
111	45.0
75	36.9

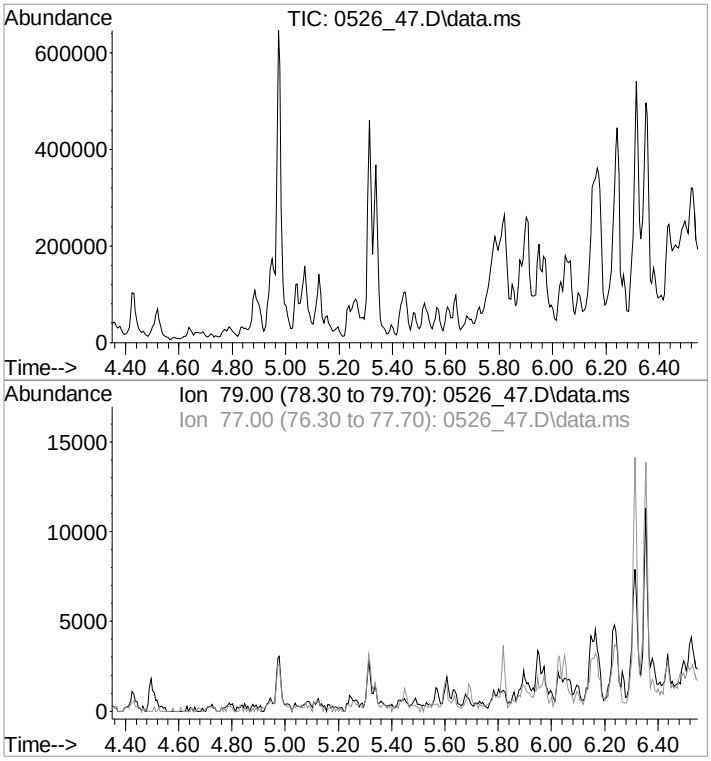


#13
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 5.34 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.3
111	42.9
75	35.3

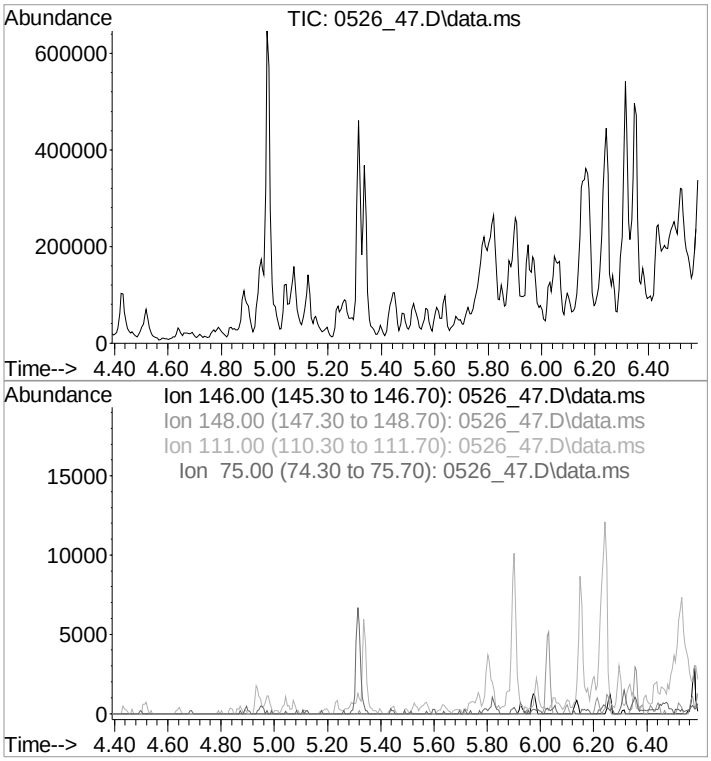


#14
Benzyl Alcohol
Concen: N.D.
Expected RT: 5.45 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
77	66.5

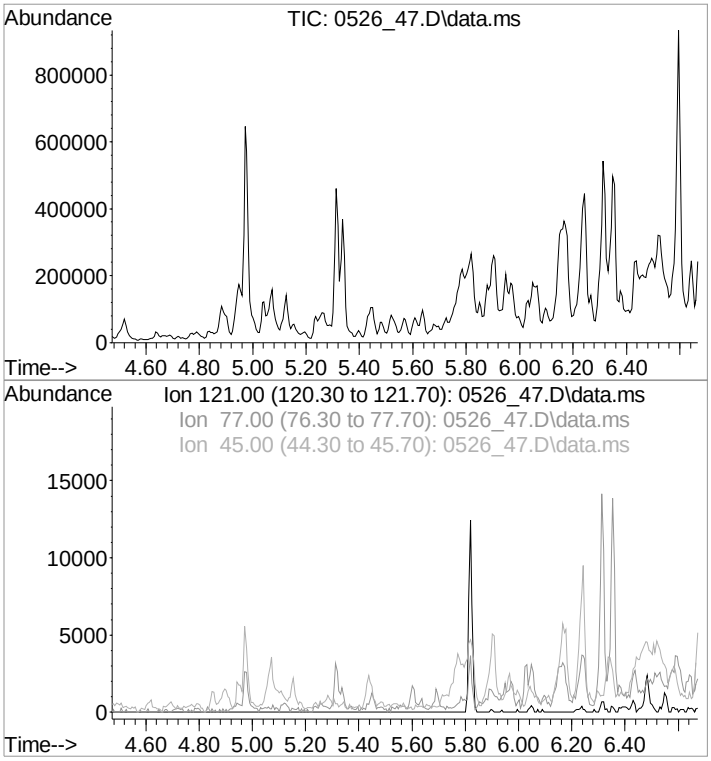


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.49 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.1
111	46.1
75	35.4

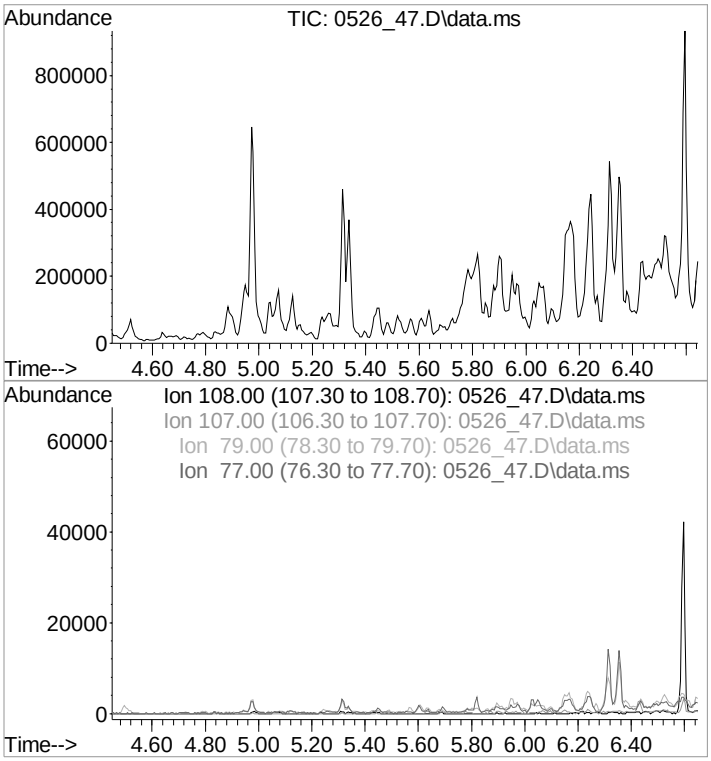


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.57 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 121

Sig	Exp Ratio
121	100
77	58.8
45	562.9

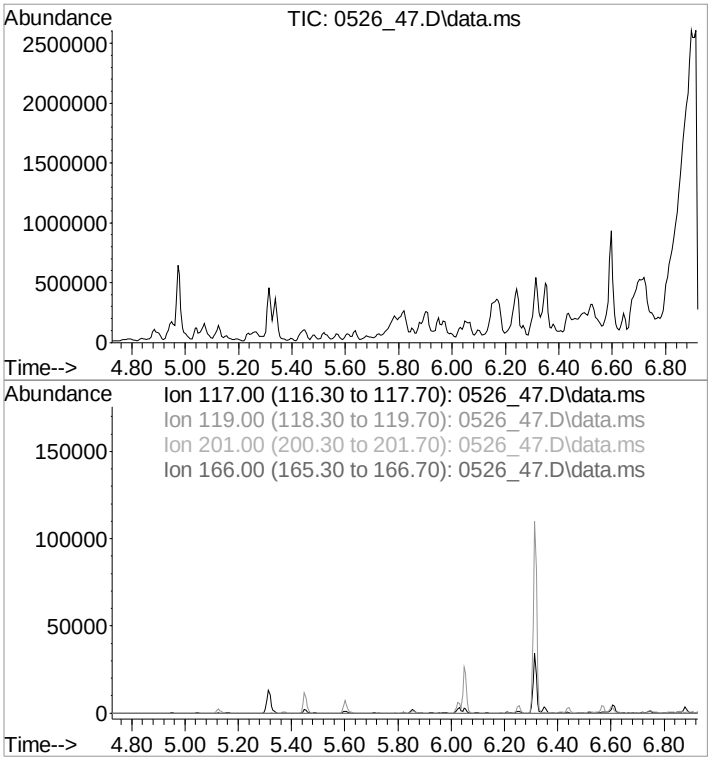


#17
2-Methylphenol
Concen: N.D.
Expected RT: 5.55 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 108

Sig	Exp Ratio
108	100
107	87.6
79	47.2
77	48.6

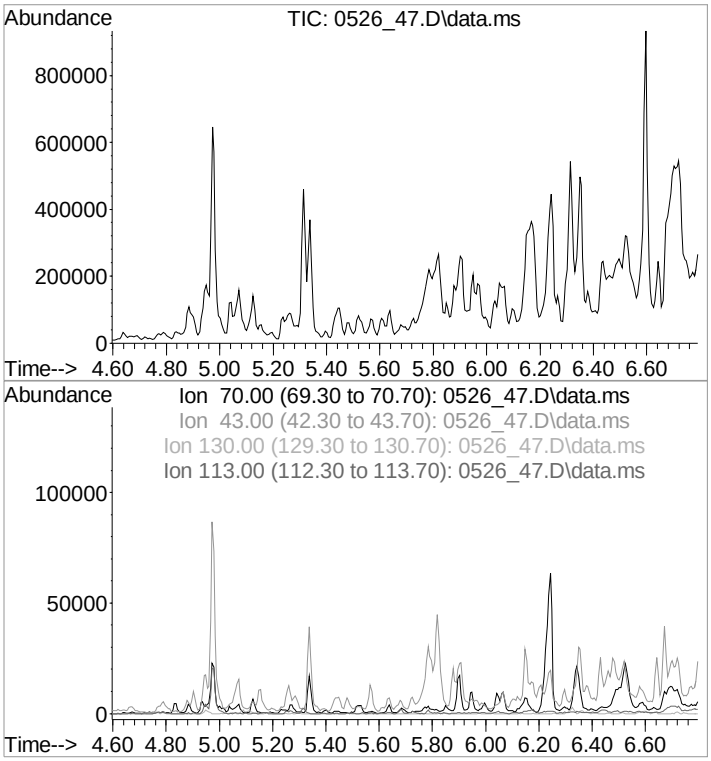


#18
Hexachloroethane
Concen: N.D.
Expected RT: 5.82 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.6
201	80.5
166	51.0

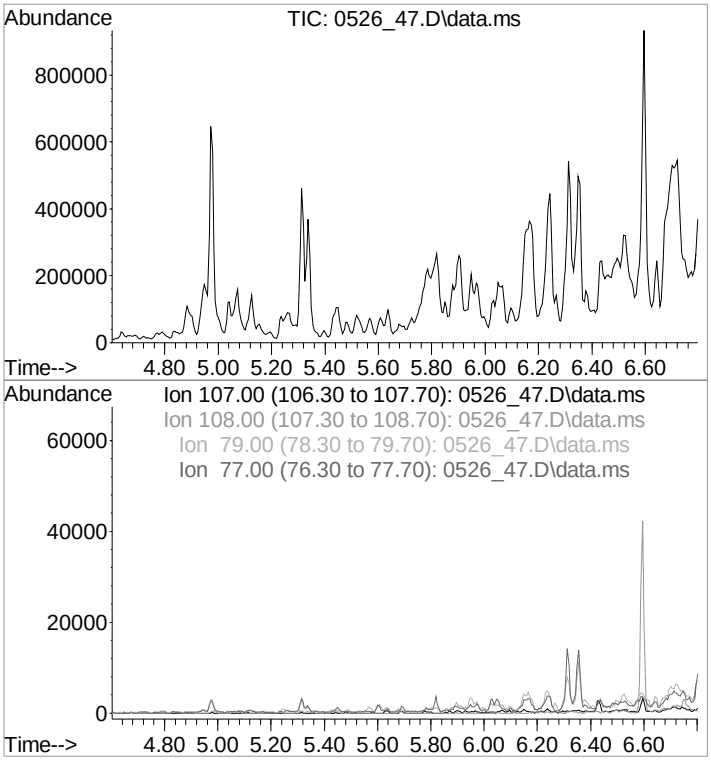


#19
N-Nitrosodi-n-propylamine
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 70

Sig	Exp Ratio
70	100
43	113.6
130	24.0
113	13.1

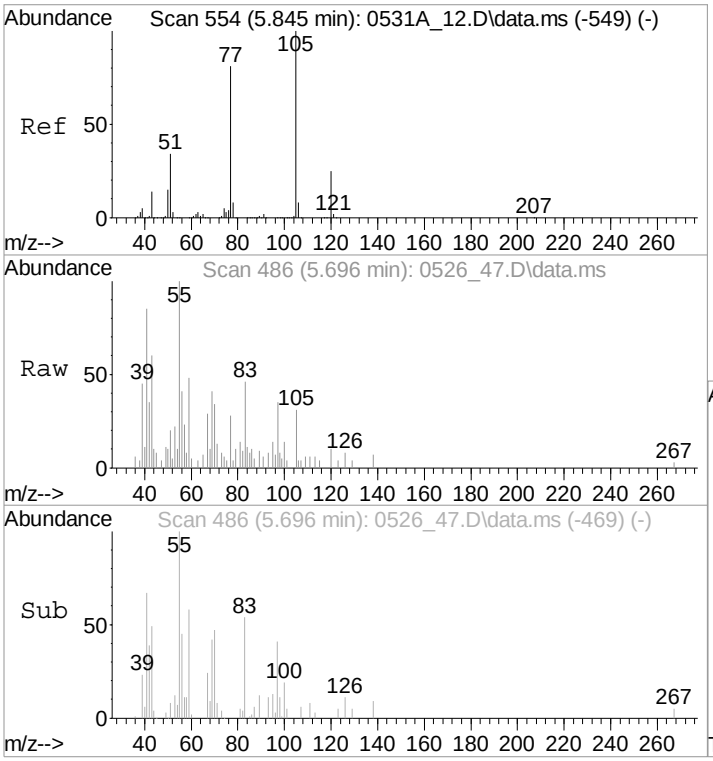


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 107

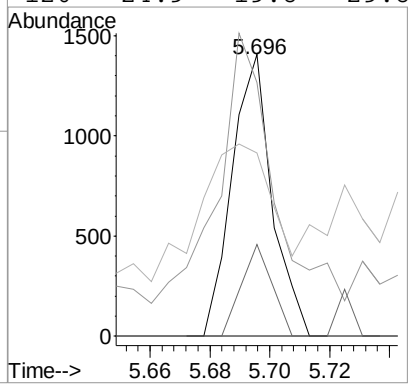
Sig	Exp Ratio
107	100
108	94.4
79	35.8
77	38.2

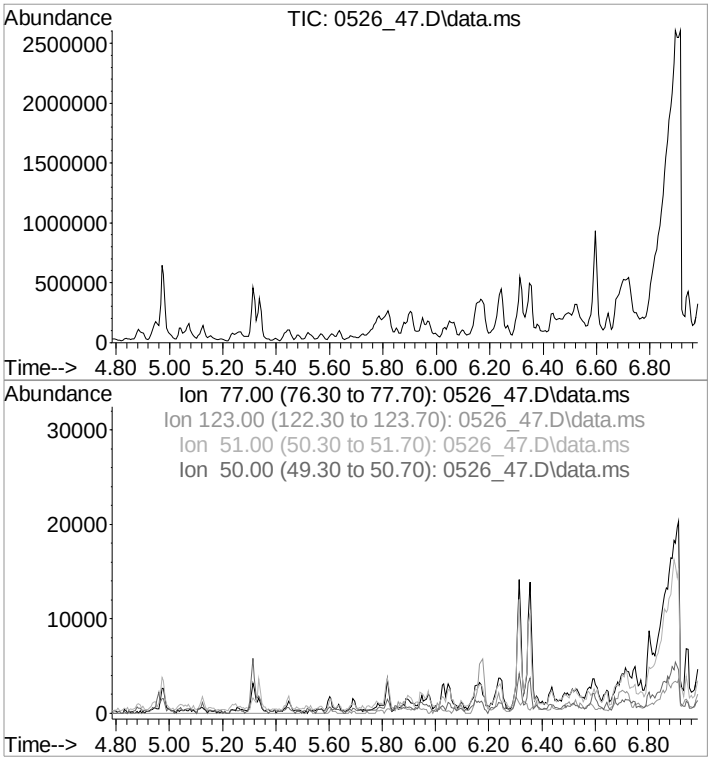


#21
Acetophenone
Concen: 0.4506431 ppb
RT: 5.696 min Scan# 486
Delta R.T. 0.000 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:105 Resp: 1305

Ion	Ratio	Lower	Upper
105	100		
77	128.1	67.3	100.9#
51	127.4	31.0	46.4#
120	24.9	19.8	29.8



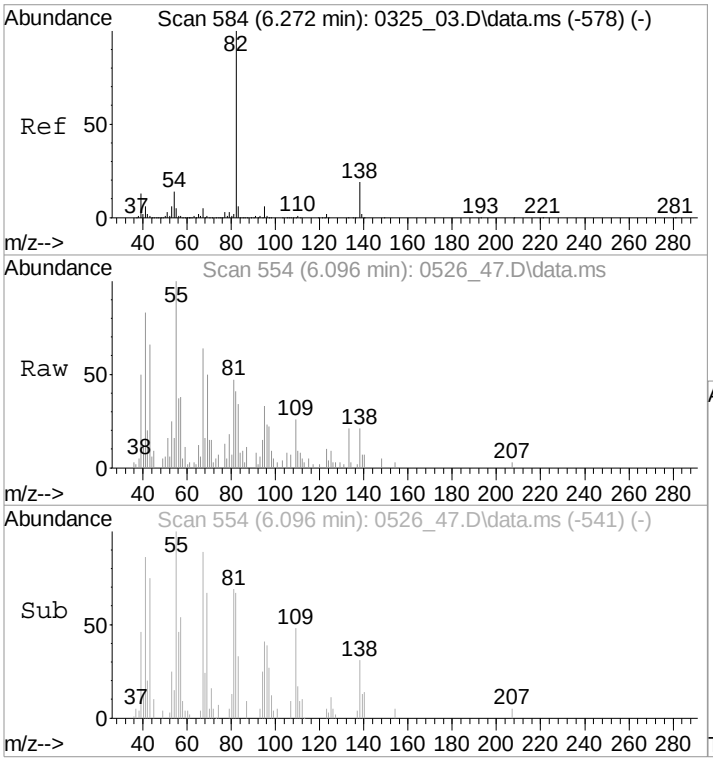


#24
Nitrobenzene
Concen: N.D.
Expected RT: 5.88 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 77

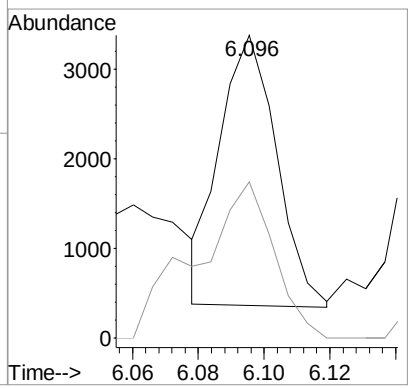
Sig	Exp Ratio
77	100
123	44.1
51	72.6
50	27.3

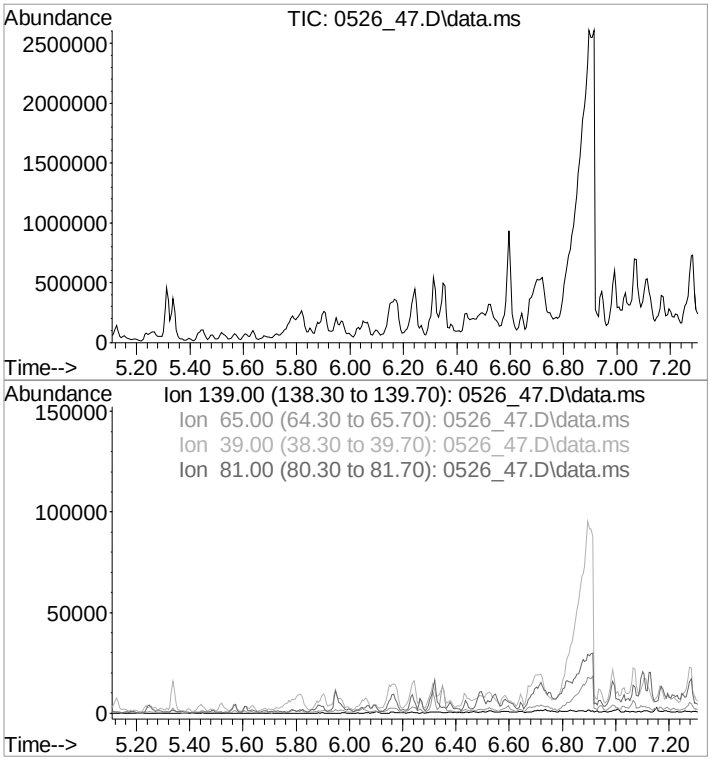


#25
Isophorone
Concen: 0.8916521 ppb m
RT: 6.096 min Scan# 554
Delta R.T. -0.023 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 82 Resp: 3609

Ion	Ratio	Lower	Upper
82	100		
138	51.5	0.0	37.1#



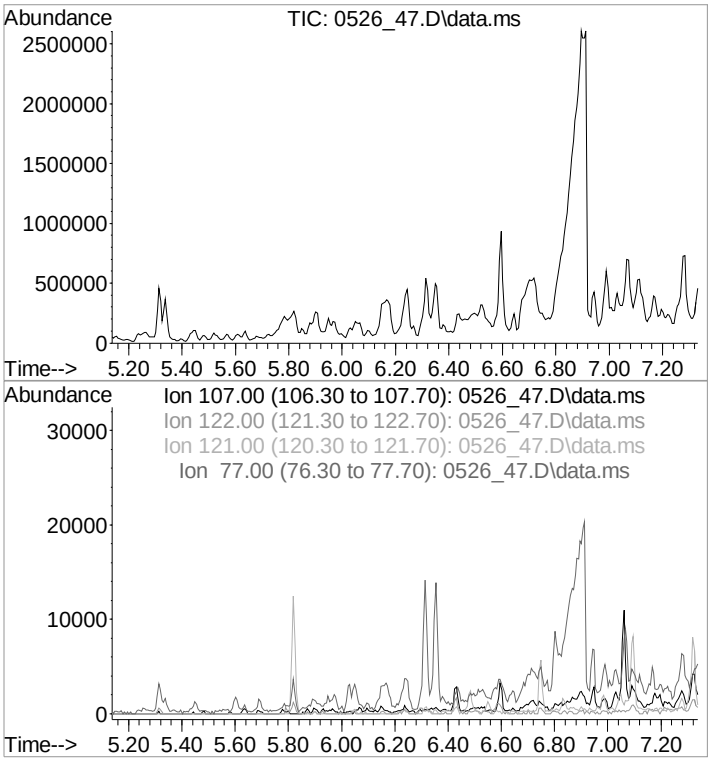


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.21 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	64.3
39	56.7
81	46.6

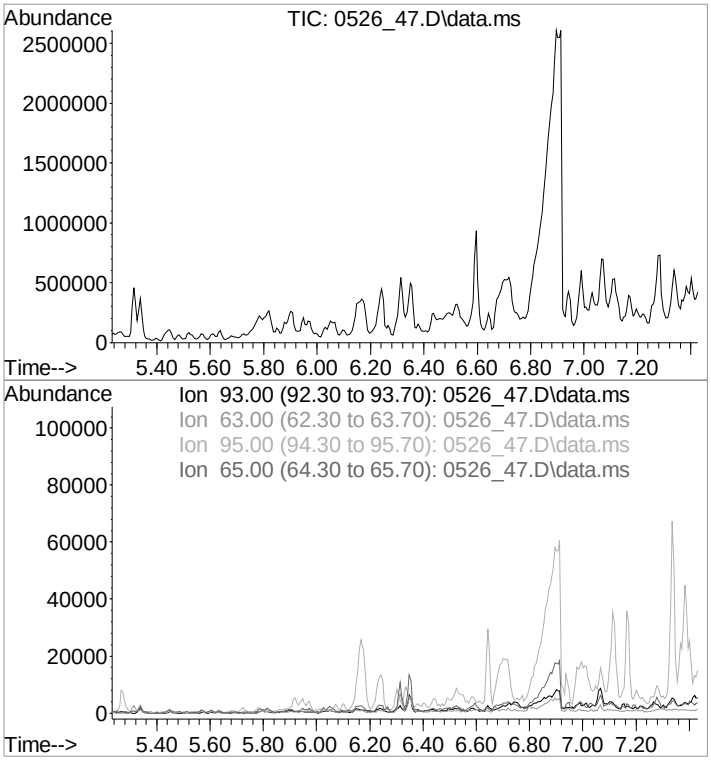


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.24 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
122	80.3
121	47.0
77	32.8

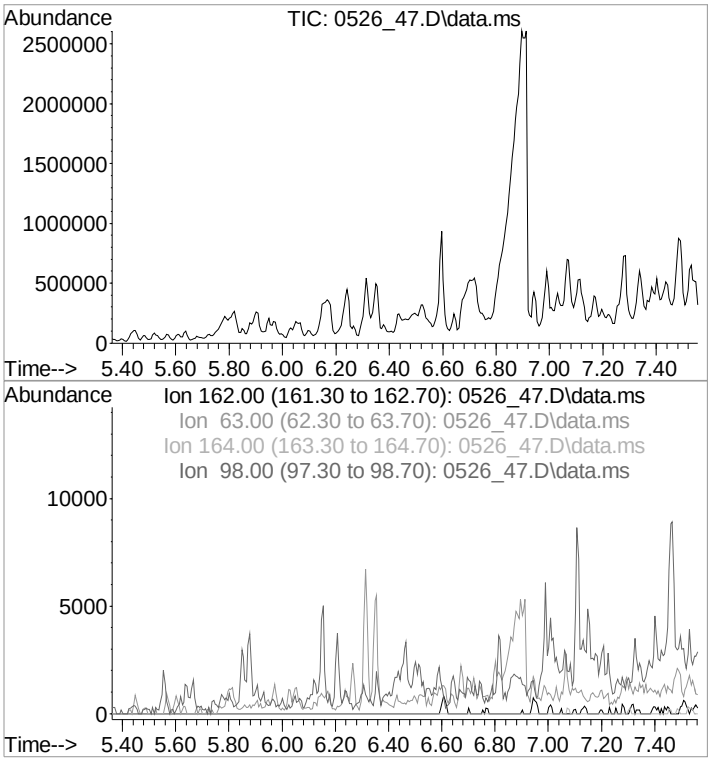


#28
bis(2-Chlorethoxy)methane
Concen: N.D.
Expected RT: 6.33 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 93

Sig	Exp Ratio
93	100
63	85.3
95	32.1
65	24.7

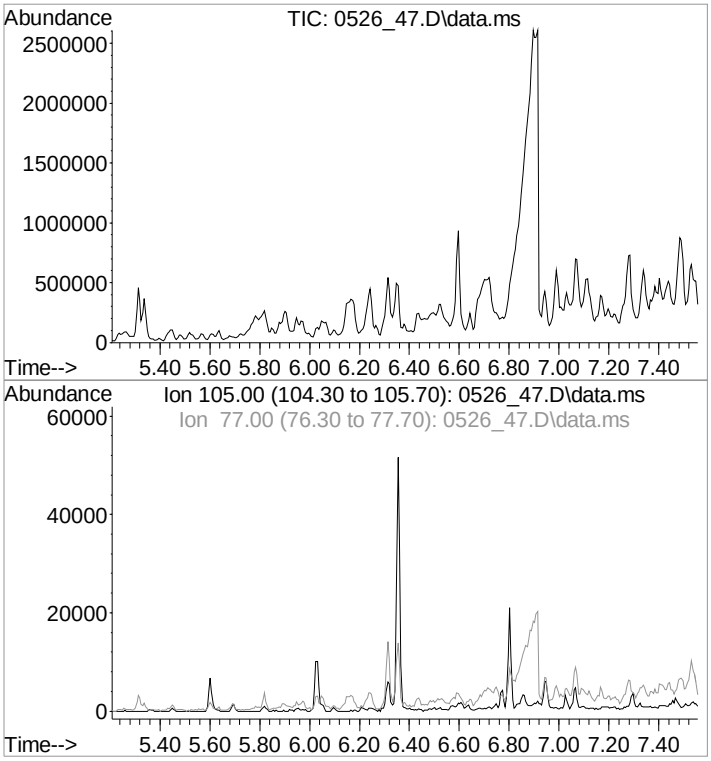


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.46 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	74.9
164	63.5
98	38.1

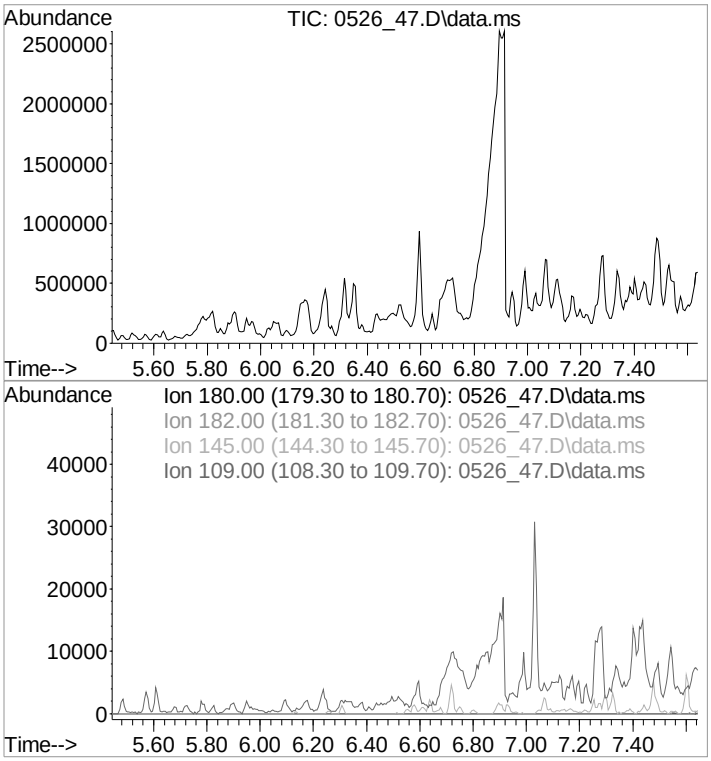


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.31 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	78.2

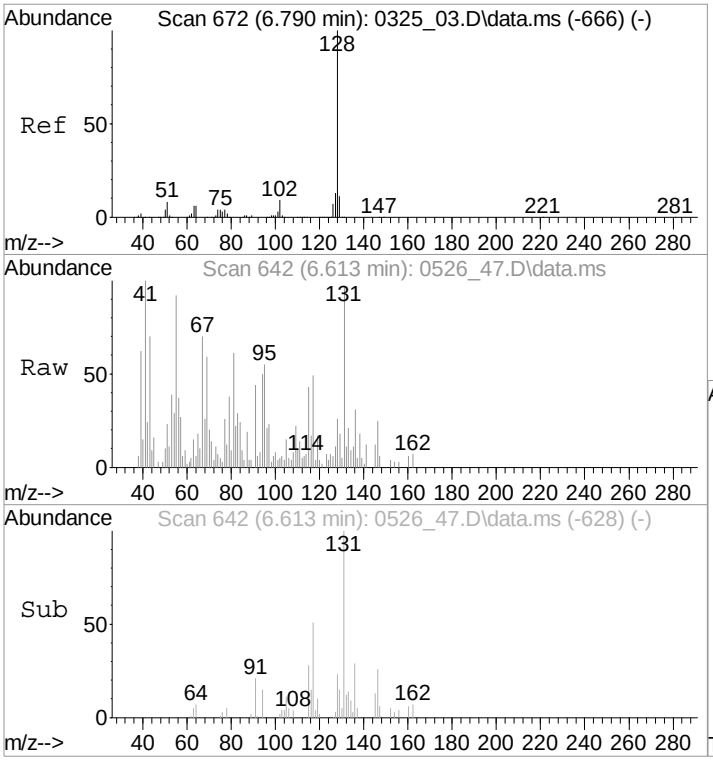


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.54 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 180

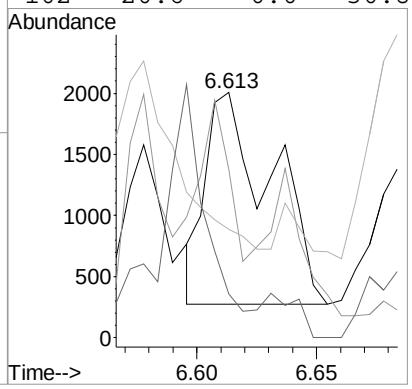
Sig	Exp Ratio
180	100
182	95.0
145	32.2
109	29.7

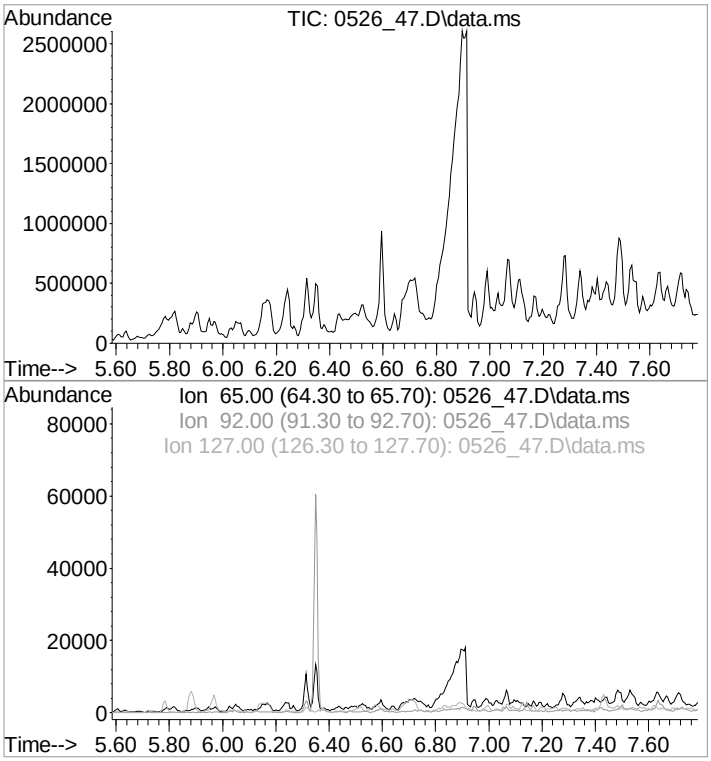


#32
Naphthalene
Concen: 0.5302675 ppb
RT: 6.613 min Scan# 642
Delta R.T. -0.017 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:128 Resp: 3297

Ion	Ratio	Lower	Upper
128	100		
129	59.3	0.0	31.4#
127	10.7	0.0	32.6
102	20.6	0.0	30.8



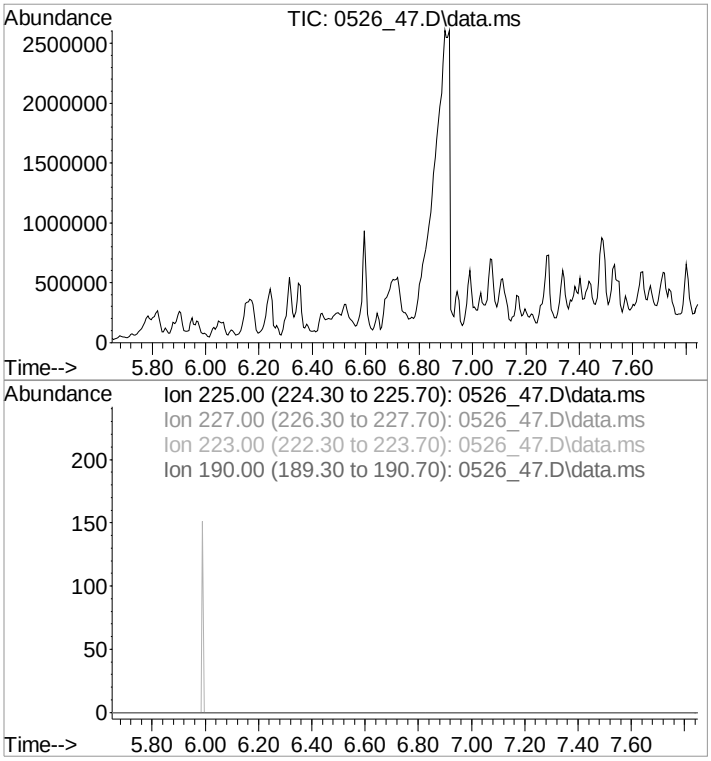


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.68 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	49.6
127	268.8

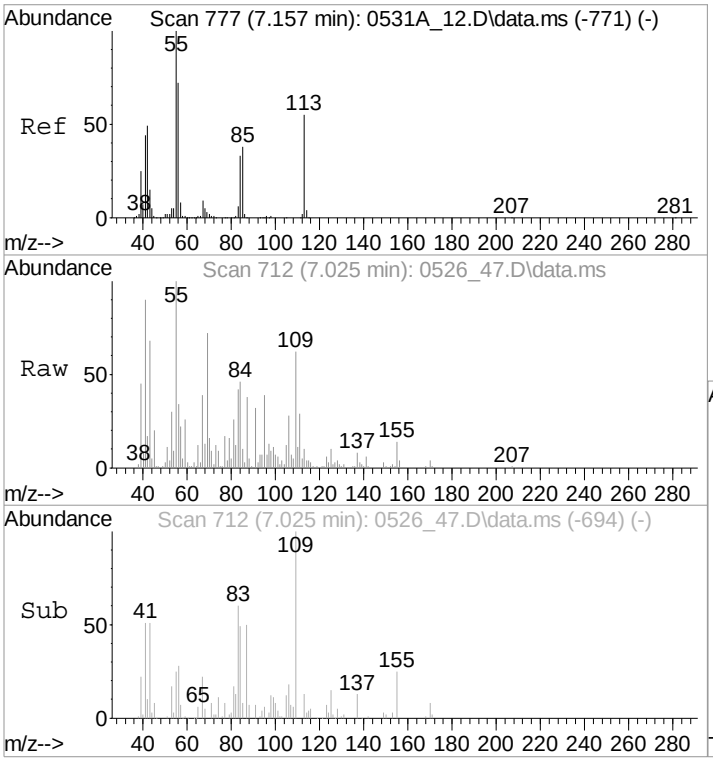


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.75 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 225

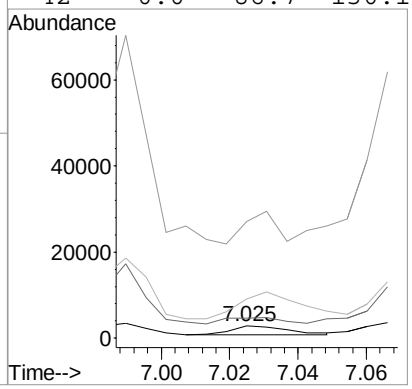
Sig	Exp Ratio
225	100
227	64.9
223	62.6
190	50.1

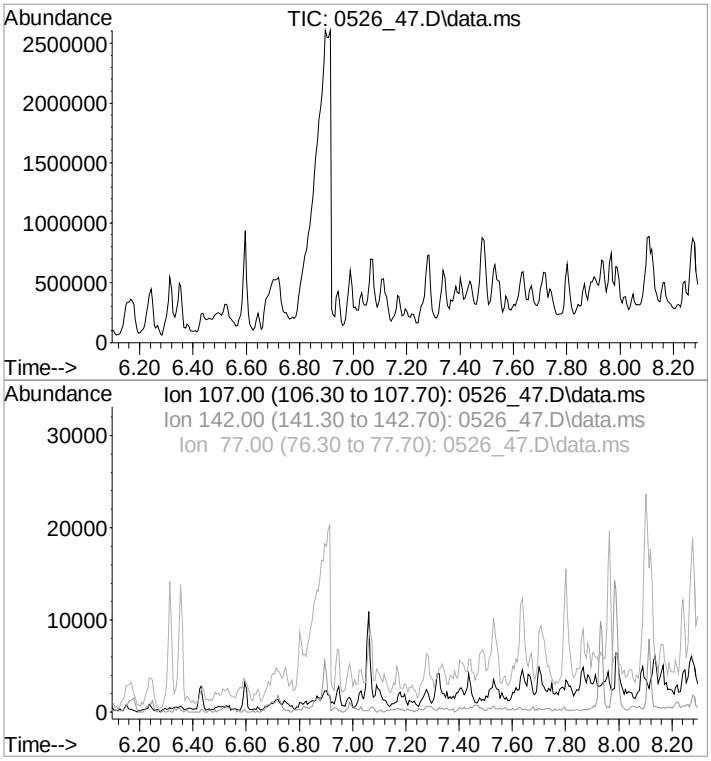


#35
Caprolactam
Concen: 4.1703799 ppb
RT: 7.025 min Scan# 712
Delta R.T. 0.006 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:113 Resp: 2572

Ion	Ratio	Lower	Upper
113	100		
55	0.0	182.6	273.8#
56	435.0	138.4	207.6#
42	0.0	86.7	130.1#



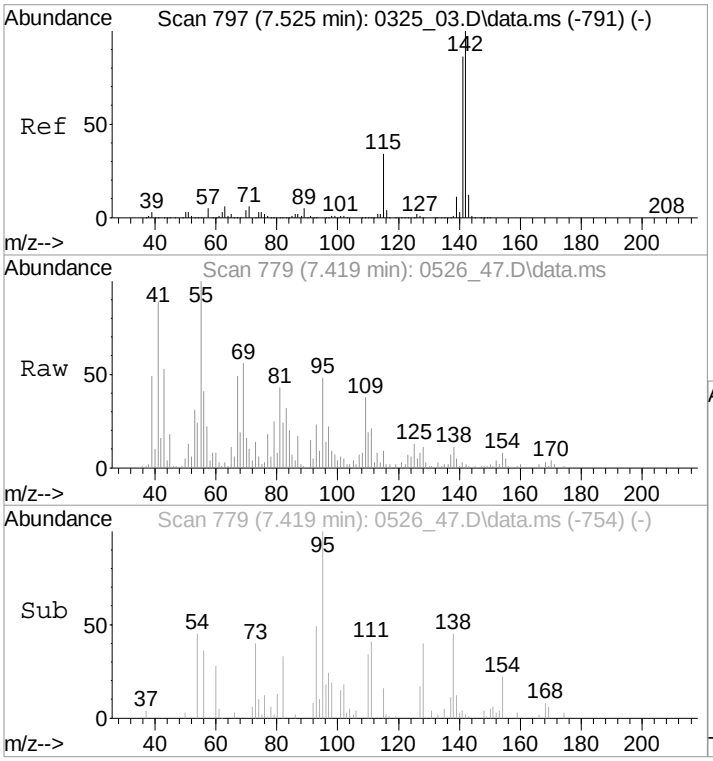


#36
4-Chloro-3-methylphenol
Concen: N.D.
Expected RT: 7.20 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 107

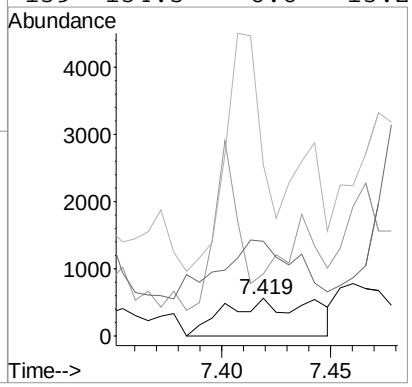
Sig	Exp Ratio
107	100
142	76.7
77	55.9

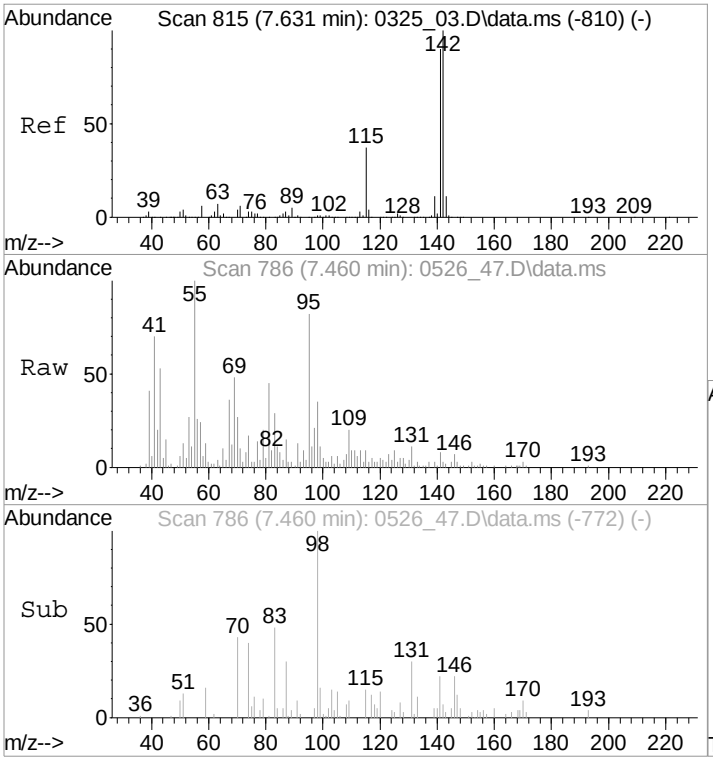


#37
2-Methylnaphthalene
Concen: 0.3541151 ppb
RT: 7.419 min Scan# 779
Delta R.T. 0.047 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:142 Resp: 1542

Ion	Ratio	Lower	Upper
142	100		
141	238.9	69.7	104.5#
115	394.2	33.4	50.0#
139	134.5	8.8	13.2#

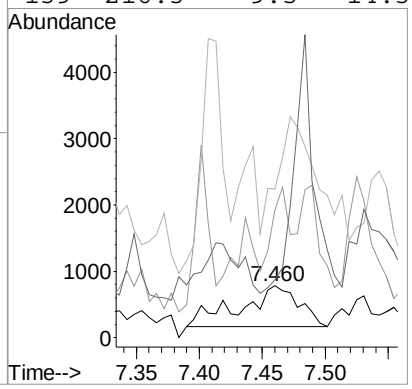


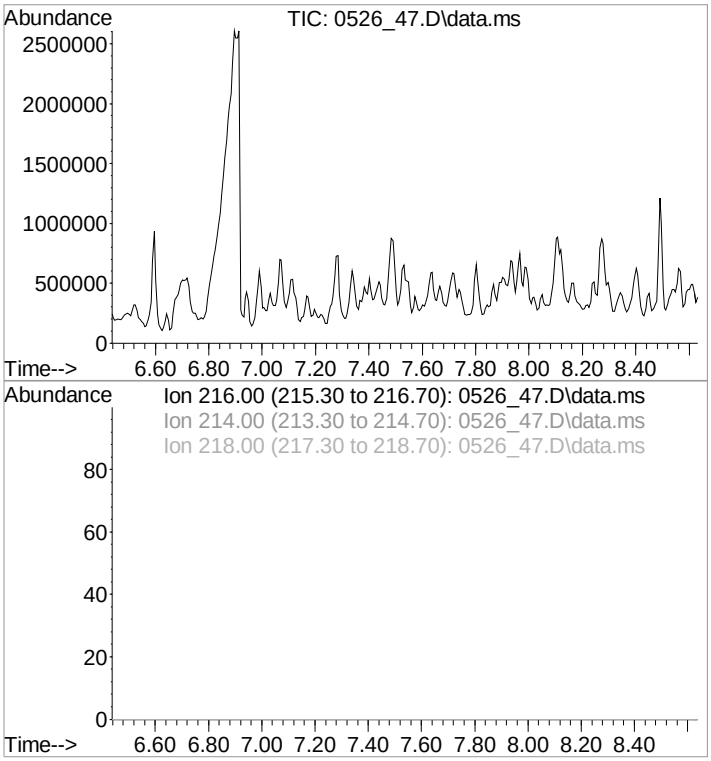


#38
1-Methylnaphthalene
Concen: 0.5197623 ppb
RT: 7.460 min Scan# 786
Delta R.T. -0.017 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:142 Resp: 2000

Ion	Ratio	Lower	Upper
142	100		
141	190.5	72.1	108.1#
115	0.0	35.0	52.6#
139	216.3	9.5	14.3#



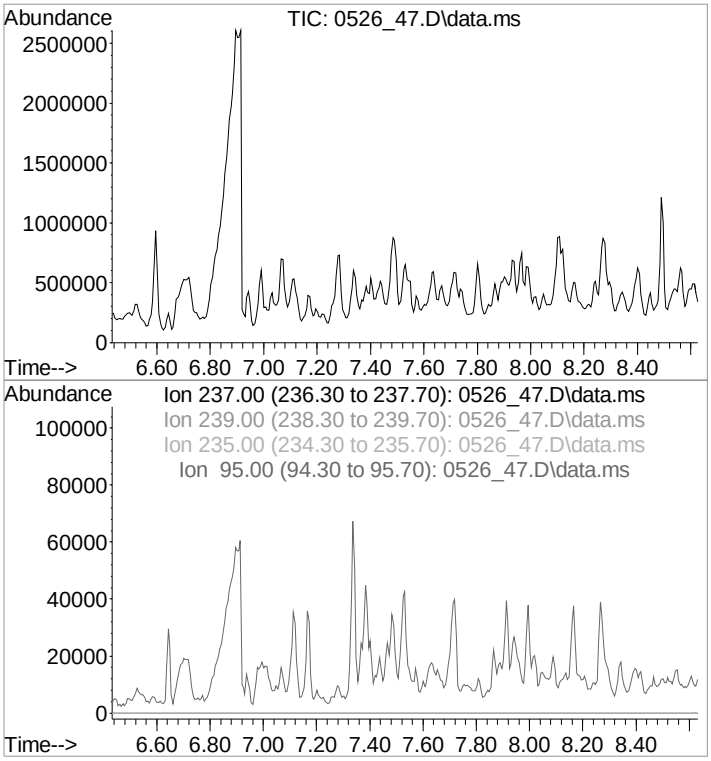


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.54 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	80.5
218	48.2

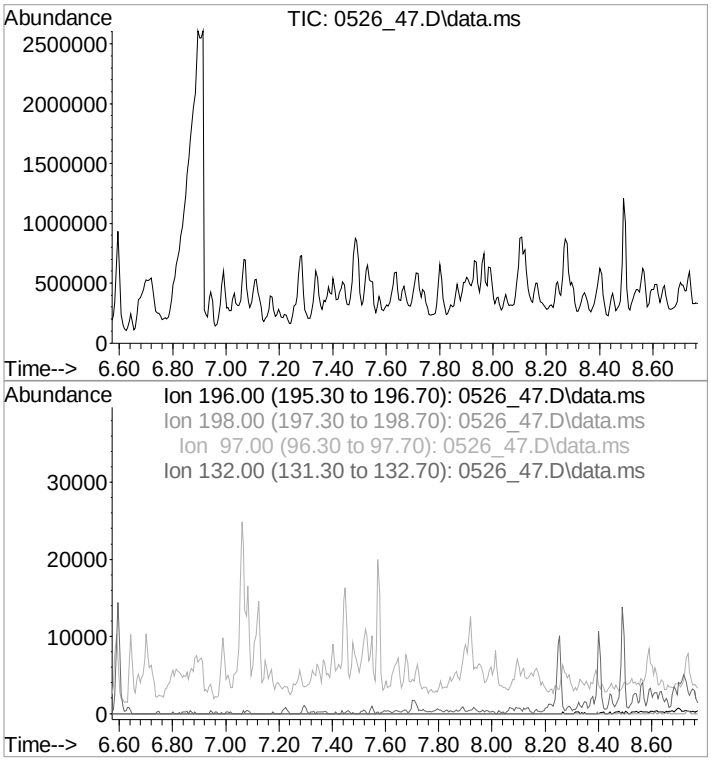


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.53 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	62.8
235	63.7
95	27.6

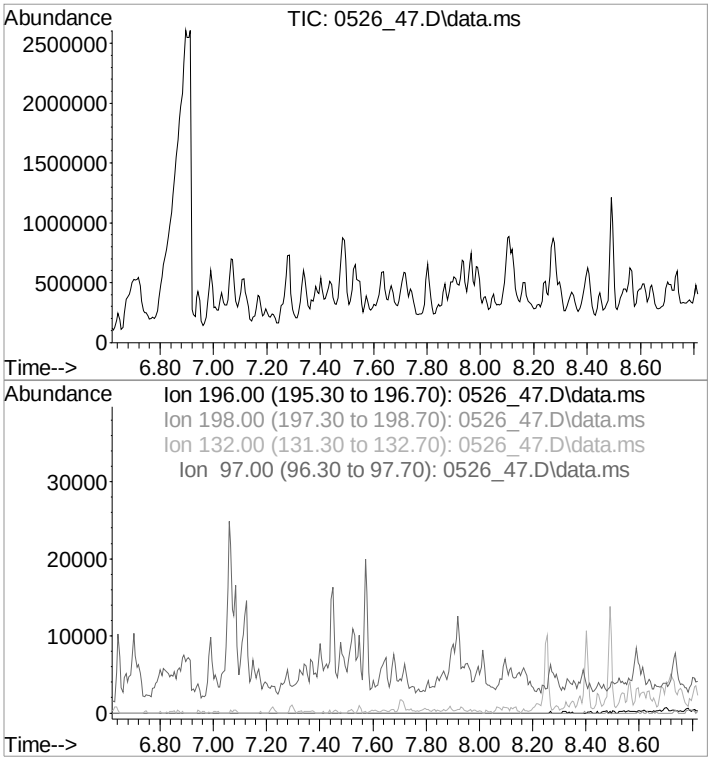


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.67 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	97.6
97	68.6
132	46.8

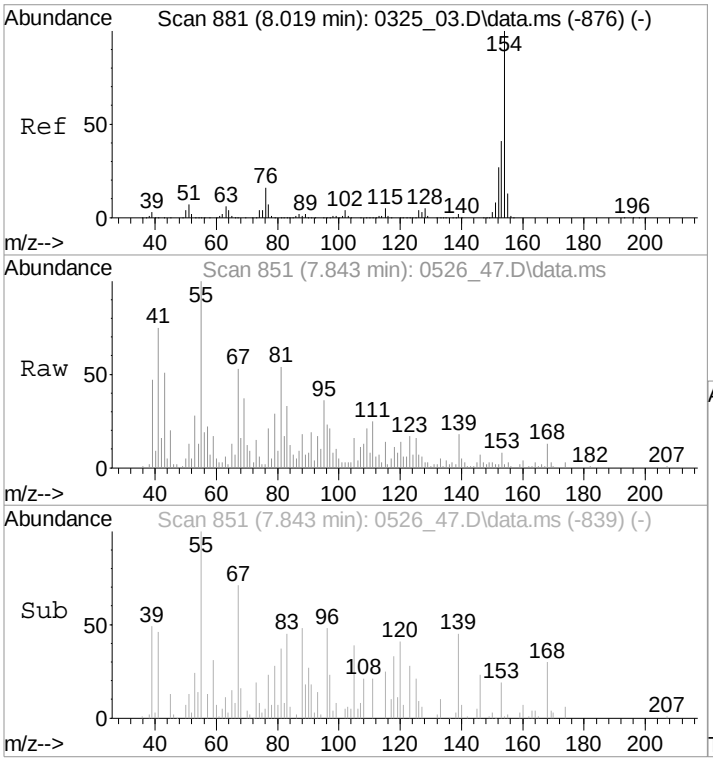


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 196

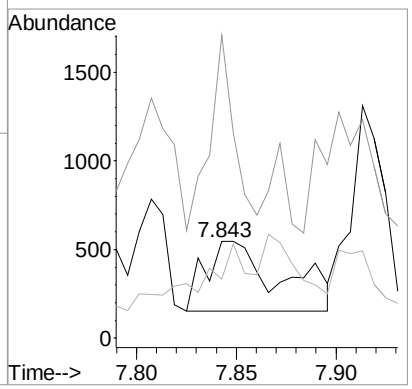
Sig	Exp Ratio
196	100
198	96.6
132	31.4
97	66.9

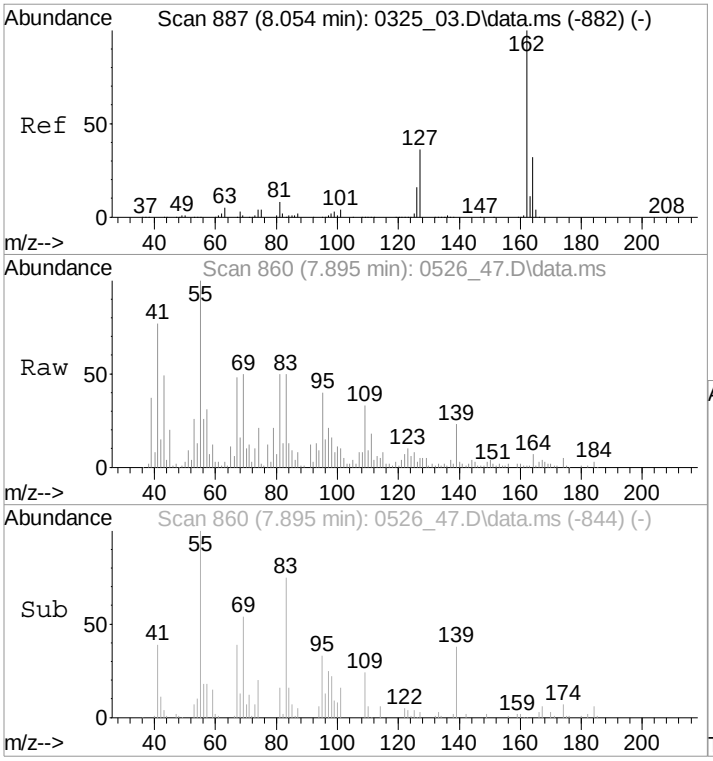


#45
Biphenyl
Concen: 0.1920388 ppb
RT: 7.843 min Scan# 851
Delta R.T. -0.029 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:154 Resp: 1023

Ion	Ratio	Lower	Upper
154	100		
153	122.8	32.0	48.0#
152	115.3	22.0	33.0#

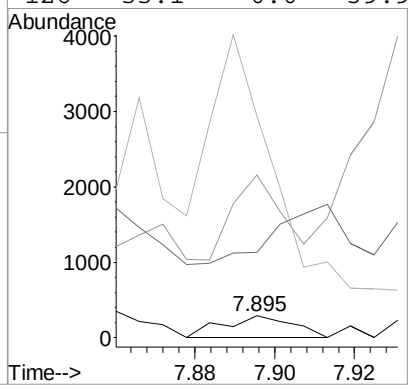


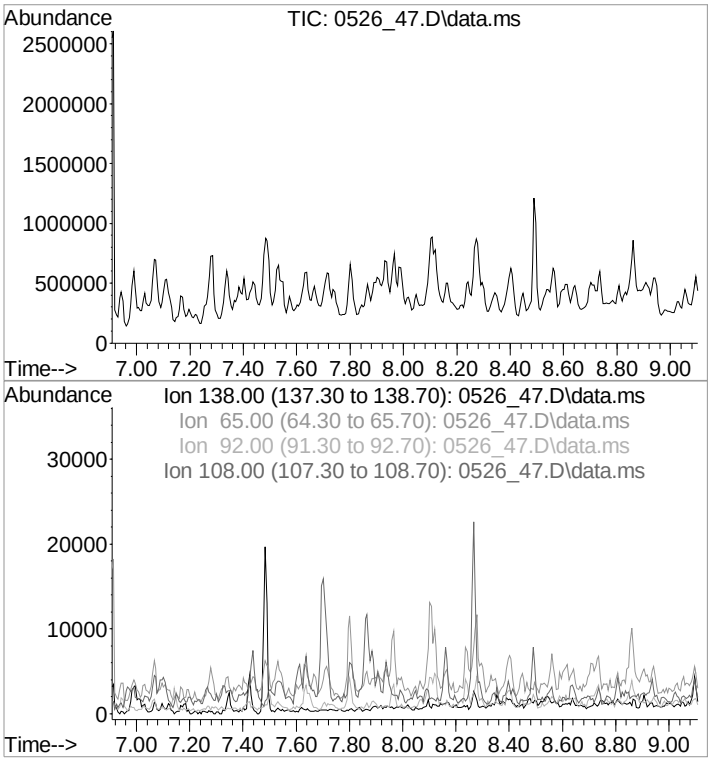


#46
2-Chloronaphthalene
Concen: Below Cal
RT: 7.895 min Scan# 860
Delta R.T. -0.006 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:162 Resp: 359

Ion	Ratio	Lower	Upper
162	100		
127	381.6	19.1	59.1#
164	659.2	12.7	52.7#
126	55.1	0.0	39.9#



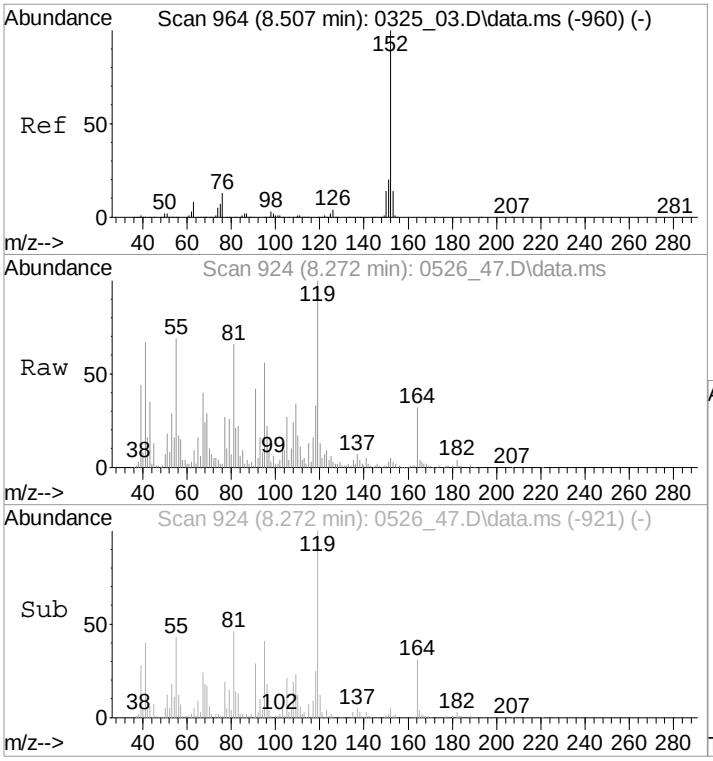


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.01 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 138

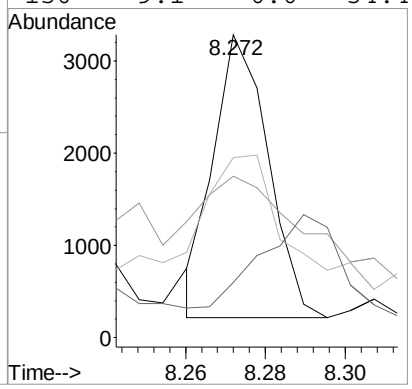
Sig	Exp Ratio
138	100
65	111.6
92	66.3
108	22.6

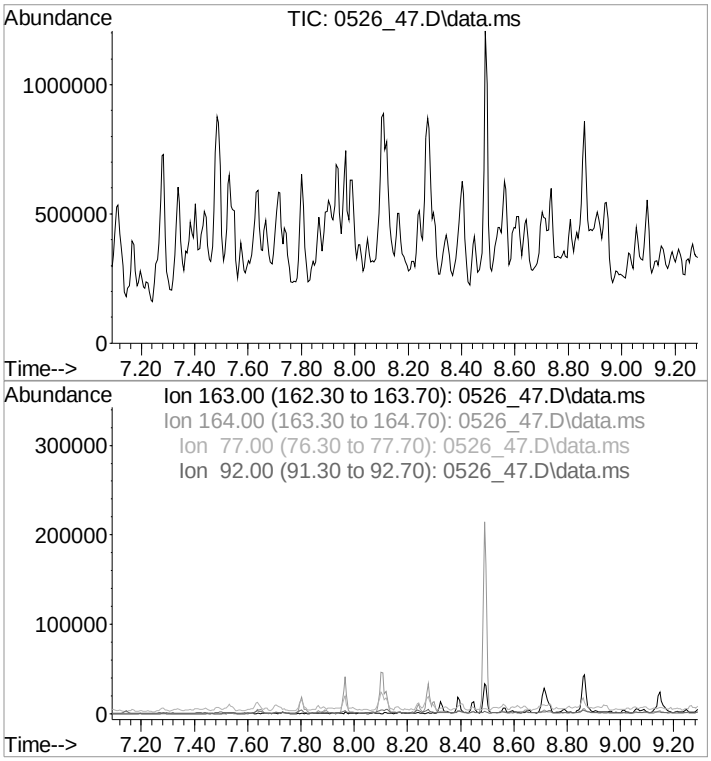


#48
Acenaphthylene
Concen: 0.4295445 ppb
RT: 8.272 min Scan# 924
Delta R.T. -0.082 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:152 Resp: 2898

Ion	Ratio	Lower	Upper
152	100		
153	20.4	0.0	33.3
151	39.6	0.0	39.9
150	9.1	0.0	34.4



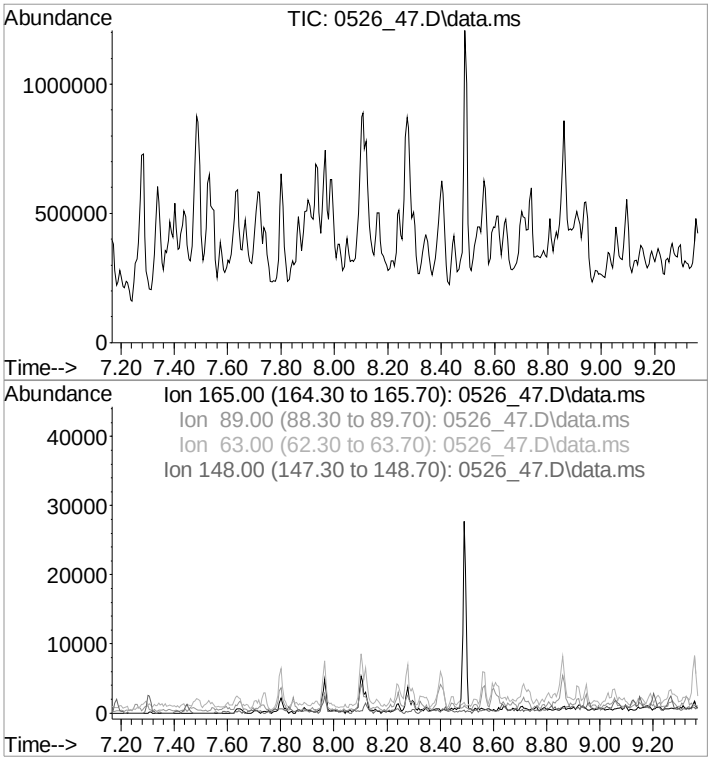


#49
Dimethyl phthalate
Concen: N.D.
Expected RT: 8.19 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 163

Sig	Exp Ratio
163	100
164	9.6
77	20.9
92	10.2

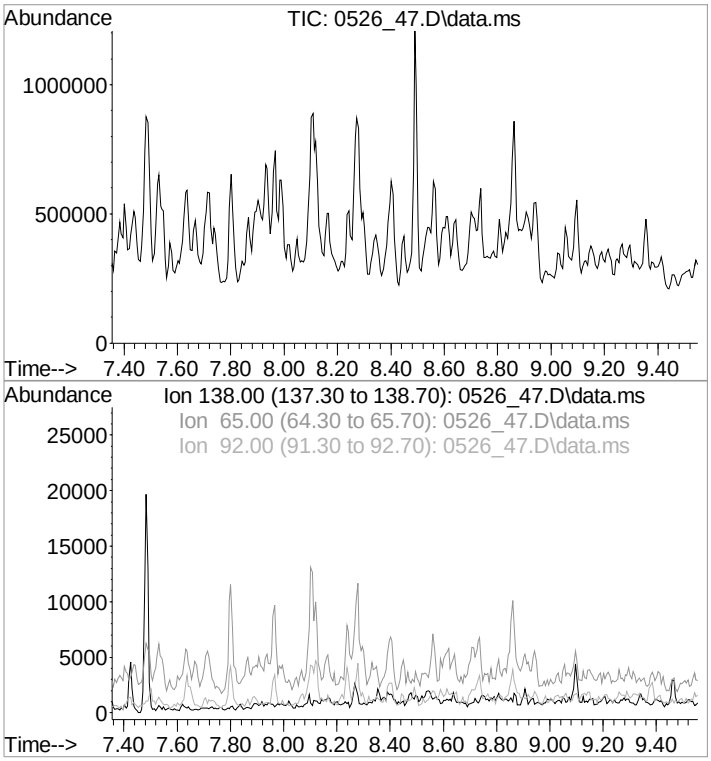


#50
2,6-Dinitrotoluene
Concen: N.D.
Expected RT: 8.27 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	61.1
63	69.0
148	20.7

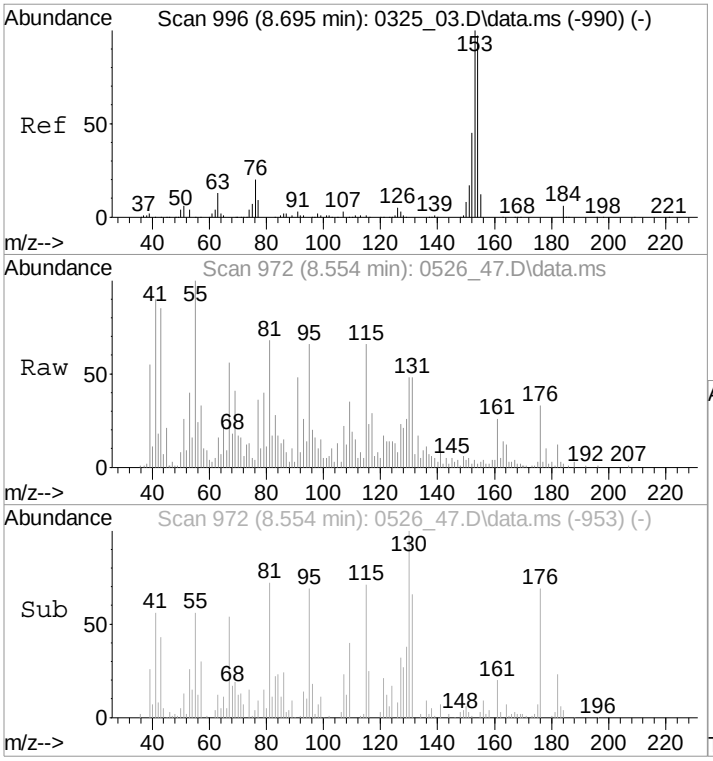


#51
3-Nitroaniline
Concen: N.D.
Expected RT: 8.45 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 138

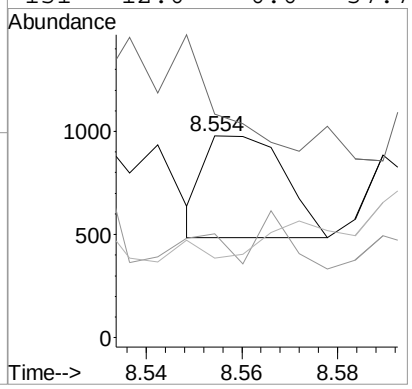
Sig	Exp Ratio
138	100
65	169.6
92	124.6

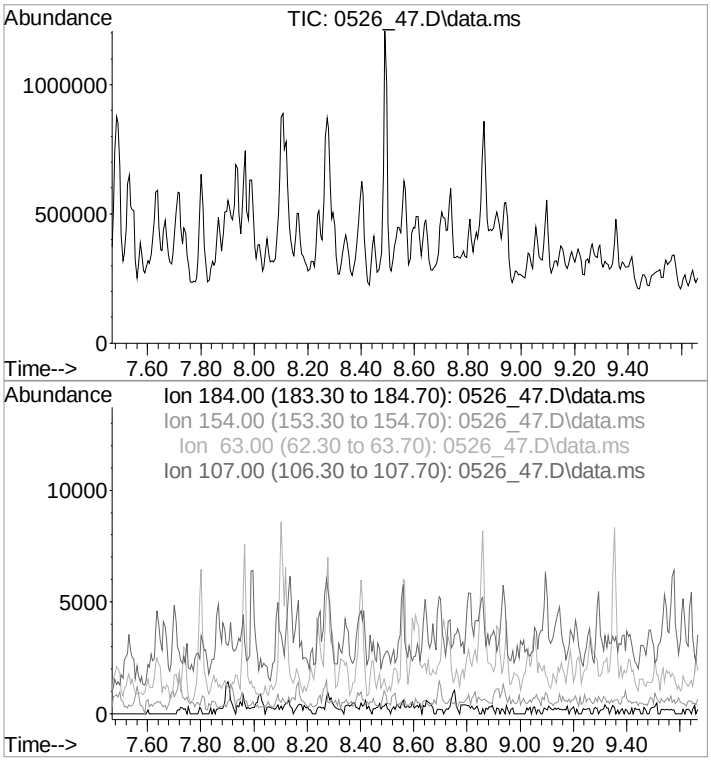


#52
Acenaphthene
Concen: Below Cal
RT: 8.554 min Scan# 972
Delta R.T. 0.012 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:153 Resp: 568

Ion	Ratio	Lower	Upper
153	100		
154	34.6	72.6	112.6#
152	0.0	26.9	66.9#
151	12.0	0.0	37.7



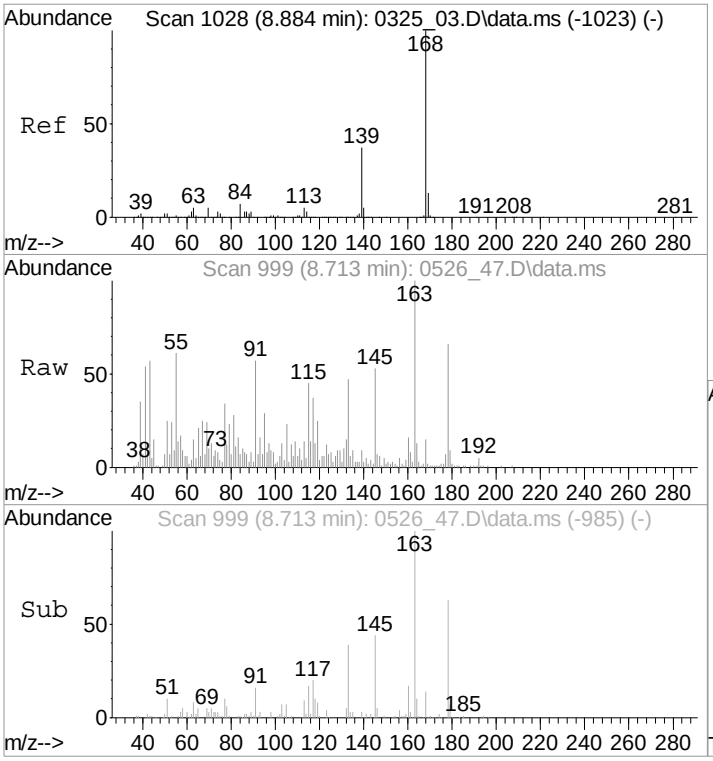


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.56 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 184

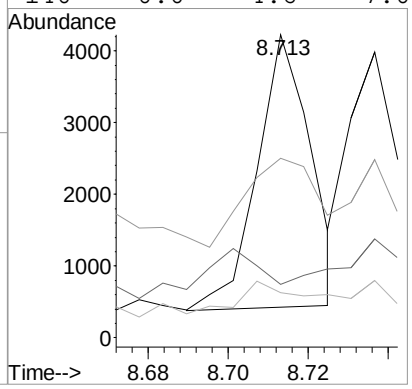
Sig	Exp Ratio
184	100
154	67.1
63	65.9
107	45.9

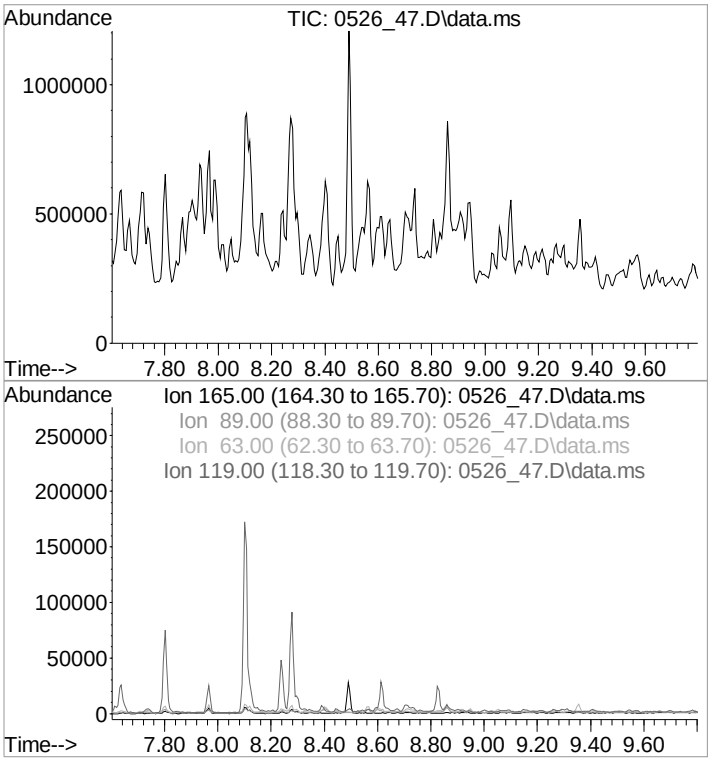


#54
Dibenzofuran
Concen: 0.5614385 ppb m
RT: 8.713 min Scan# 999
Delta R.T. -0.017 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:168 Resp: 3578

Ion	Ratio	Lower	Upper
168	100		
139	80.4	32.9	49.3#
169	0.0	10.5	15.7#
140	0.0	4.6	7.0#



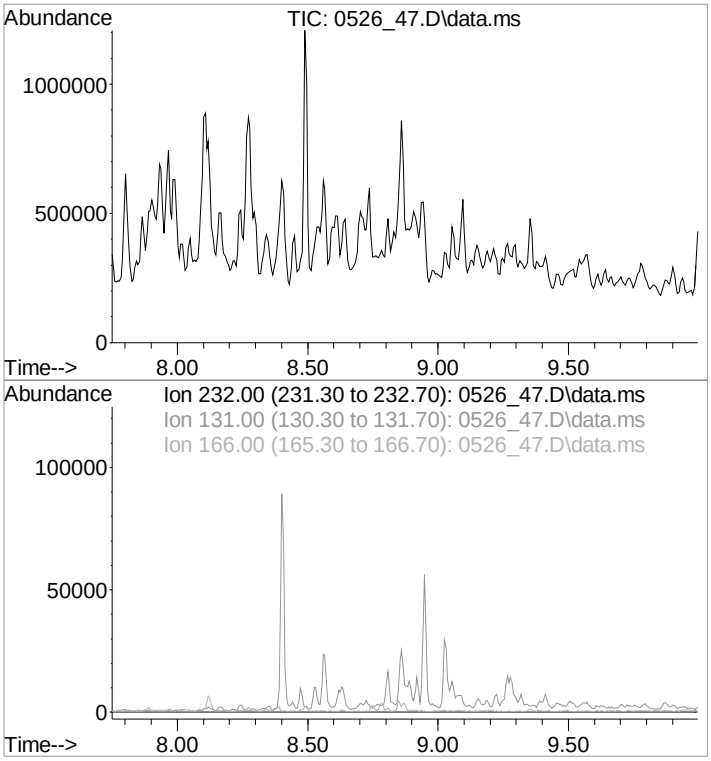


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.70 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	80.5
63	58.2
119	21.9

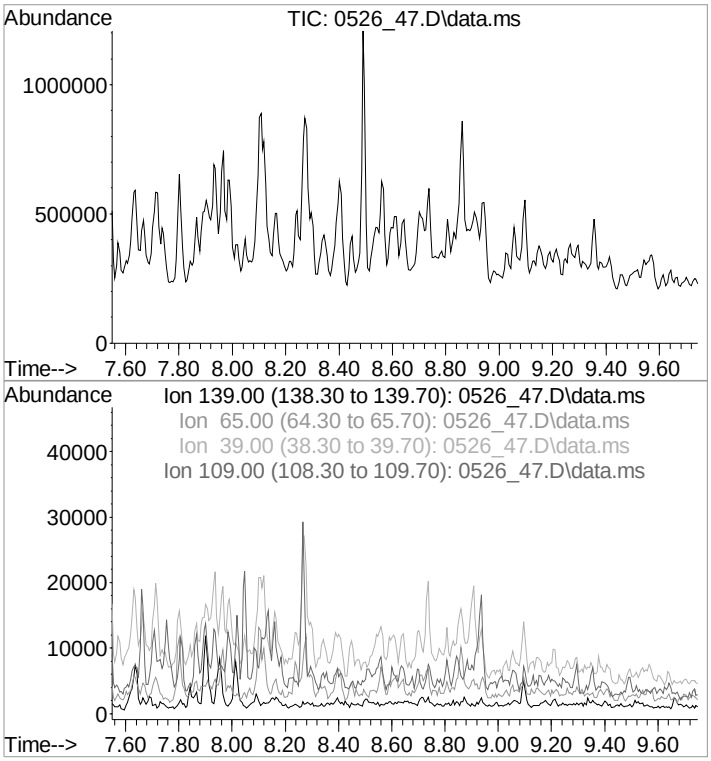


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 8.85 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	56.7
166	36.2

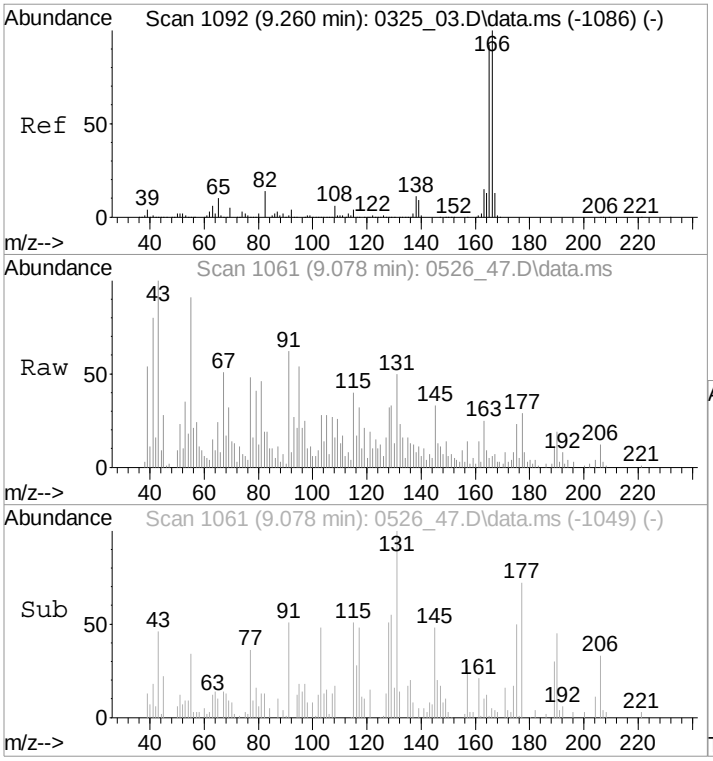


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.65 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 139

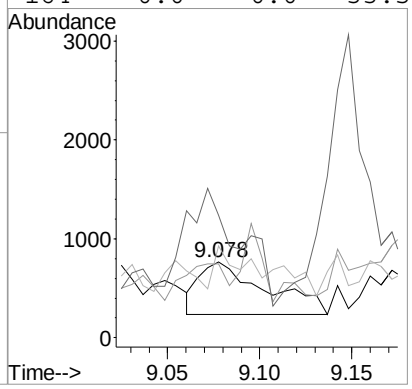
Sig	Exp Ratio
139	100
65	116.1
39	77.2
109	84.3

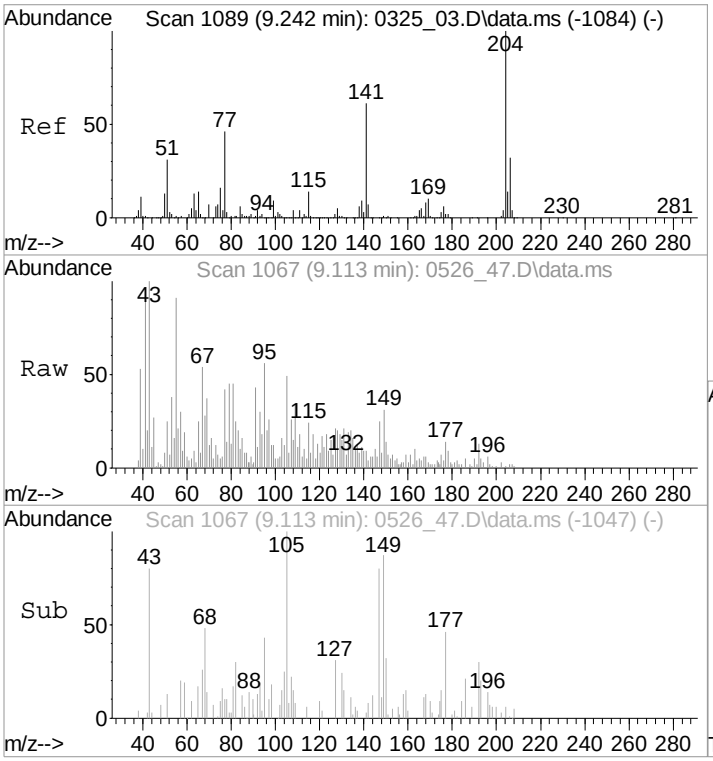


#58
Fluorene
Concen: 0.2532946 ppb
RT: 9.078 min Scan# 1061
Delta R.T. -0.029 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:166 Resp: 1333

Ion	Ratio	Lower	Upper
166	100		
165	48.6	75.7	115.7#
167	49.3	0.0	33.2#
164	0.0	0.0	33.5

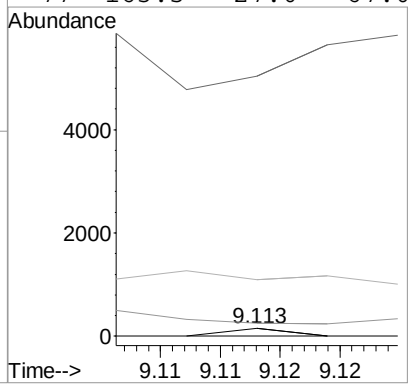


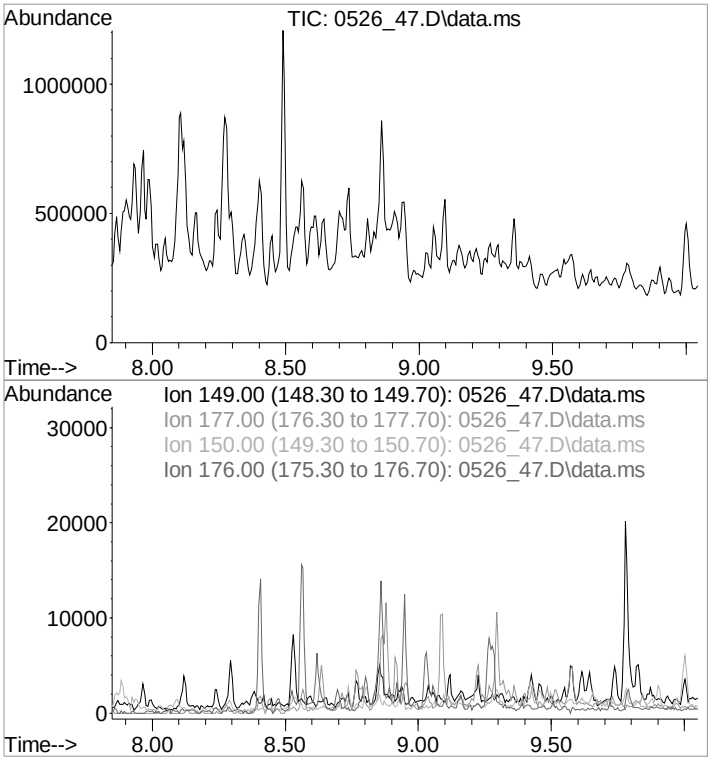


#59
4-Chlorophenyl-phenylether
Concen: Below Cal
RT: 9.113 min Scan# 1067
Delta R.T. 0.018 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:204 Resp: 56

Ion	Ratio	Lower	Upper
204	100		
206	8.2	12.5	52.5#
141	0.0	47.2	87.2#
77	163.5	27.0	67.0#



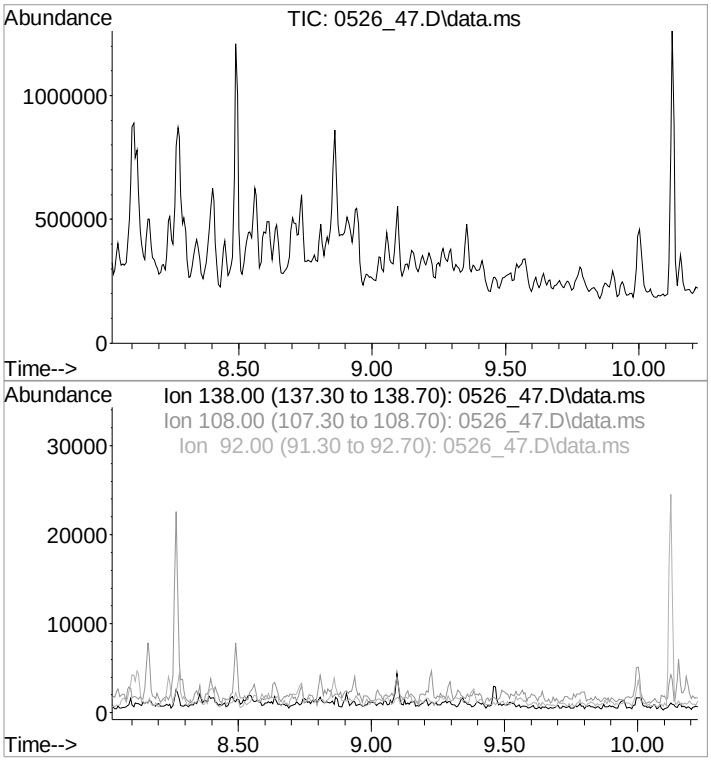


#60
Diethyl phthalate
Concen: N.D.
Expected RT: 8.95 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 149

Sig	Exp Ratio
149	100
177	19.8
150	12.1
176	7.3

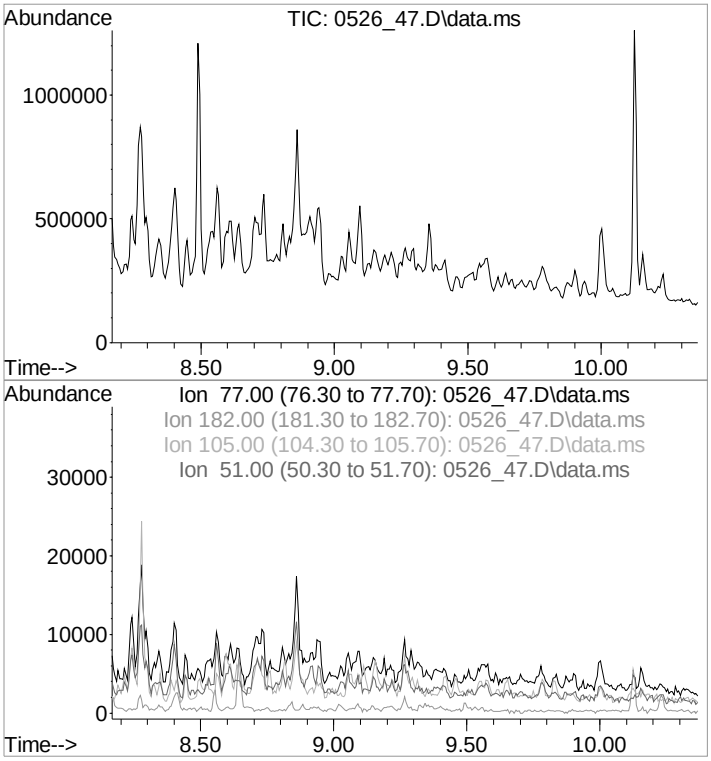


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.12 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
108	81.6
92	51.9

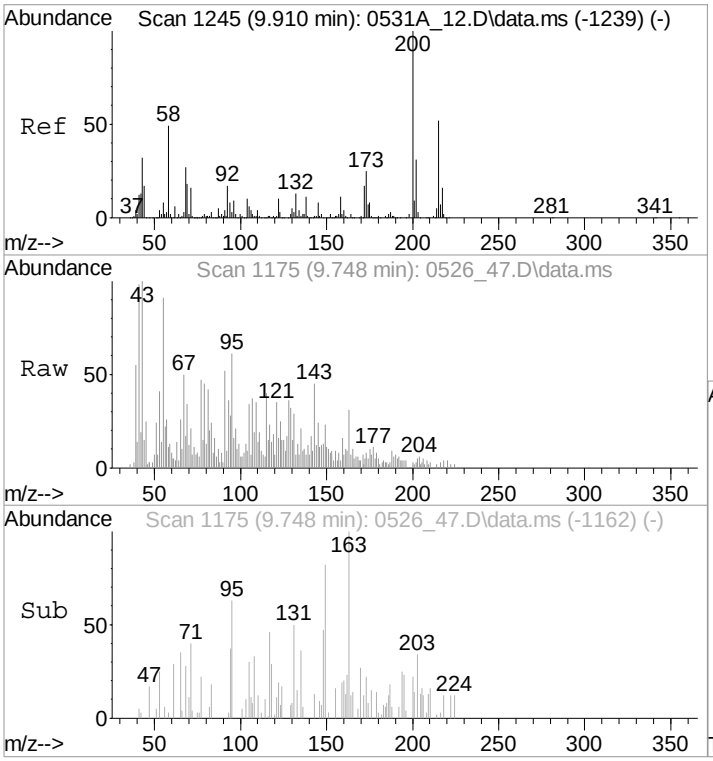


#62
Azobenzene
Concen: N.D.
Expected RT: 9.27 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 77

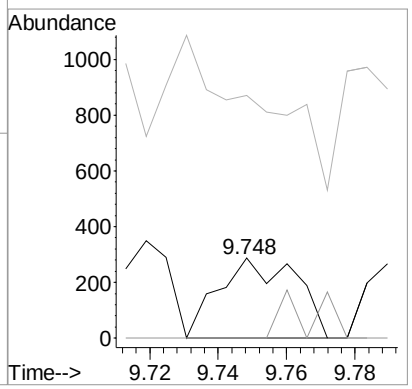
Sig	Exp Ratio
77	100
182	23.3
105	15.9
51	39.0

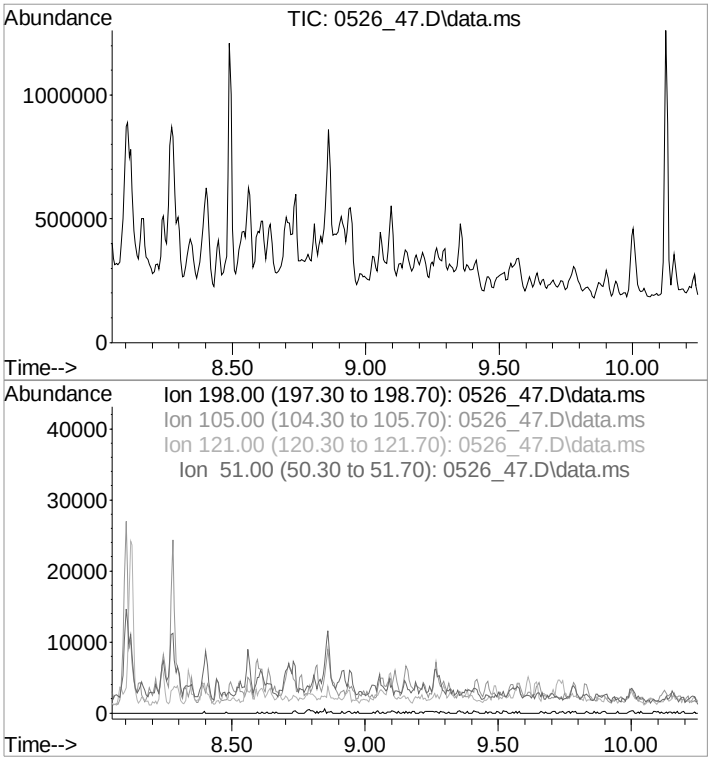


#63
Atrazine
Concen: 0.3426121 ppb
RT: 9.748 min Scan# 1175
Delta R.T. -0.023 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:200 Resp: 451

Ion	Ratio	Lower	Upper
200	100		
215	26.6	37.7	56.5#
58	0.0	64.2	96.4#



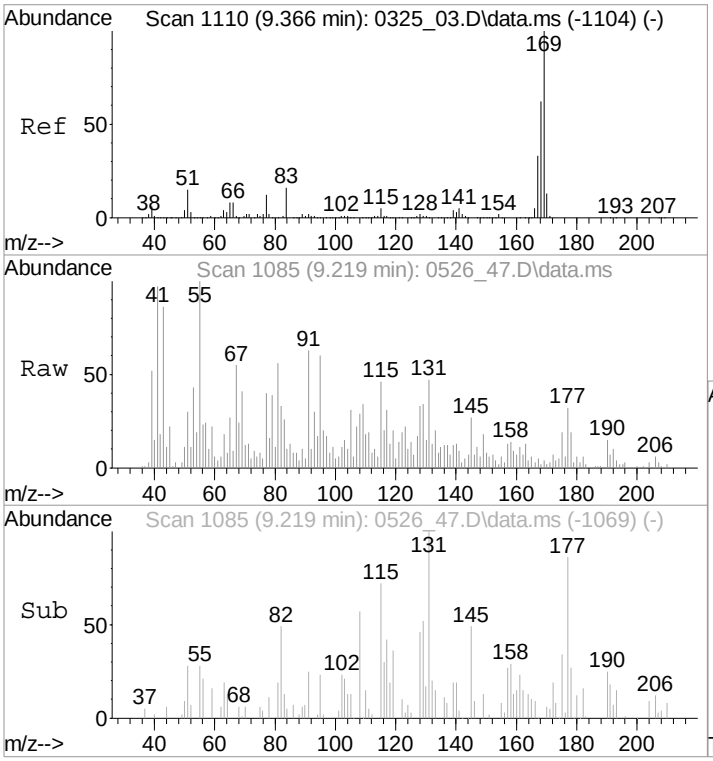


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.15 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 198

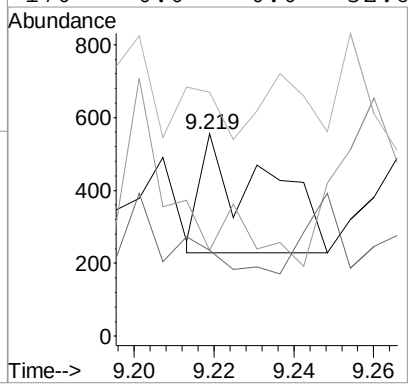
Sig	Exp Ratio
198	100
105	45.7
121	44.0
51	53.3

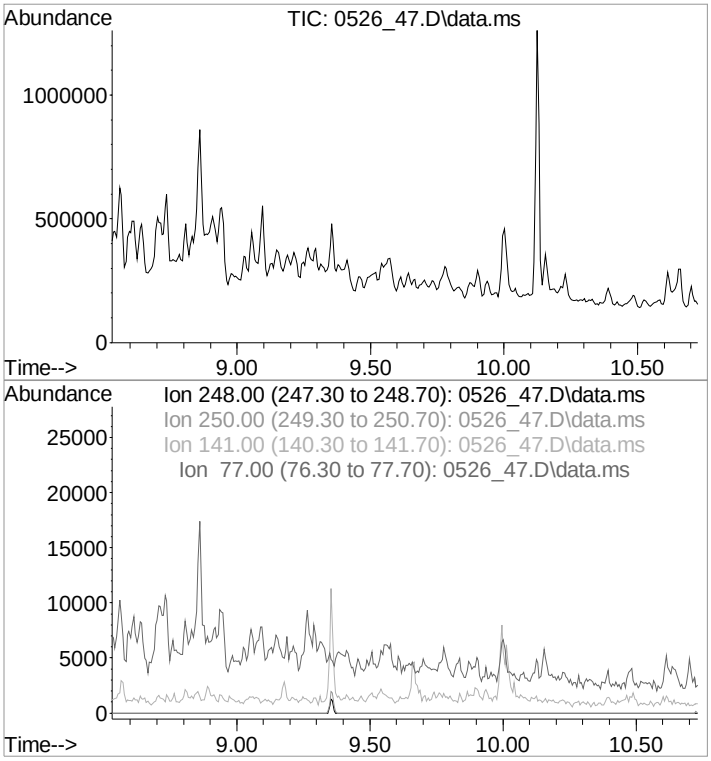


#66
N-Nitrosodiphenylamine
Concen: Below Cal
RT: 9.219 min Scan# 1085
Delta R.T. -0.006 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:169 Resp: 373

Ion	Ratio	Lower	Upper
169	100		
168	0.0	43.6	83.6#
167	33.1	14.5	54.5
170	0.0	0.0	32.6



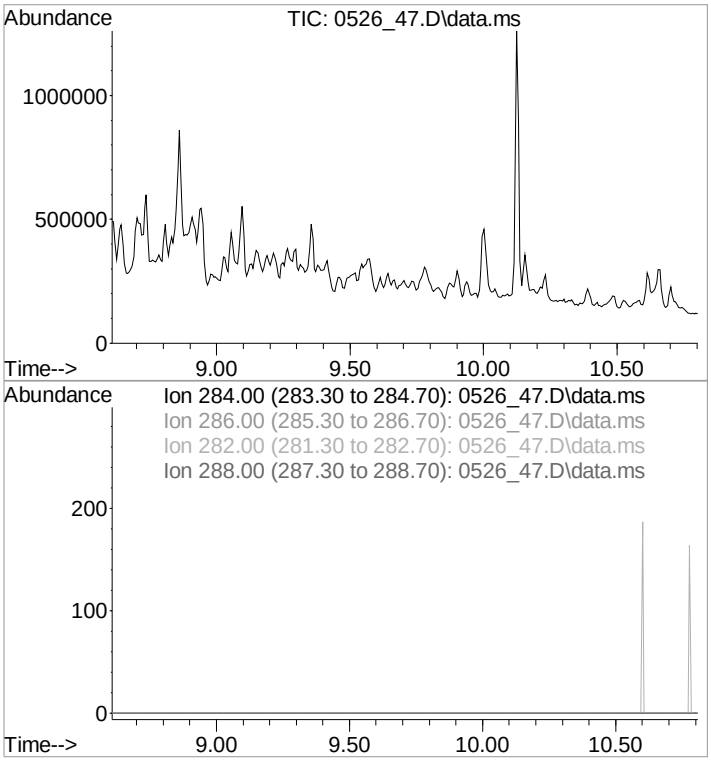


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.63 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	96.0
141	100.7
77	88.4

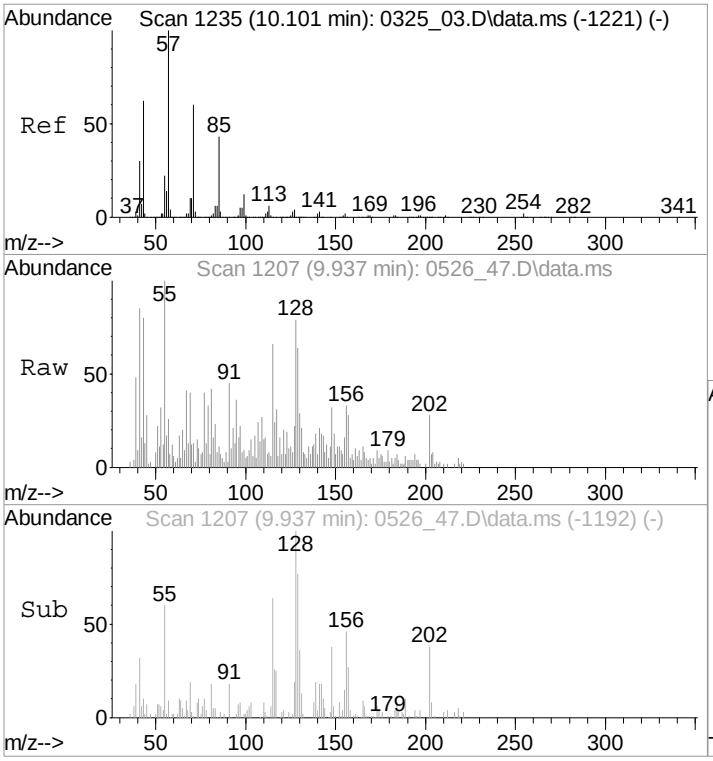


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.71 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 284

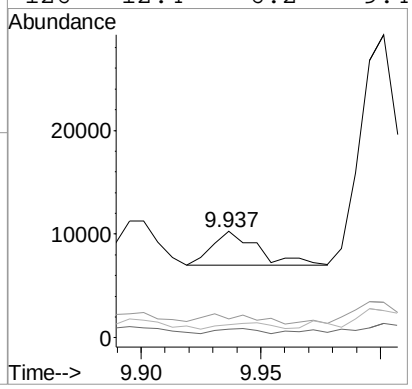
Sig	Exp Ratio
284	100
286	81.5
282	53.0
288	33.1

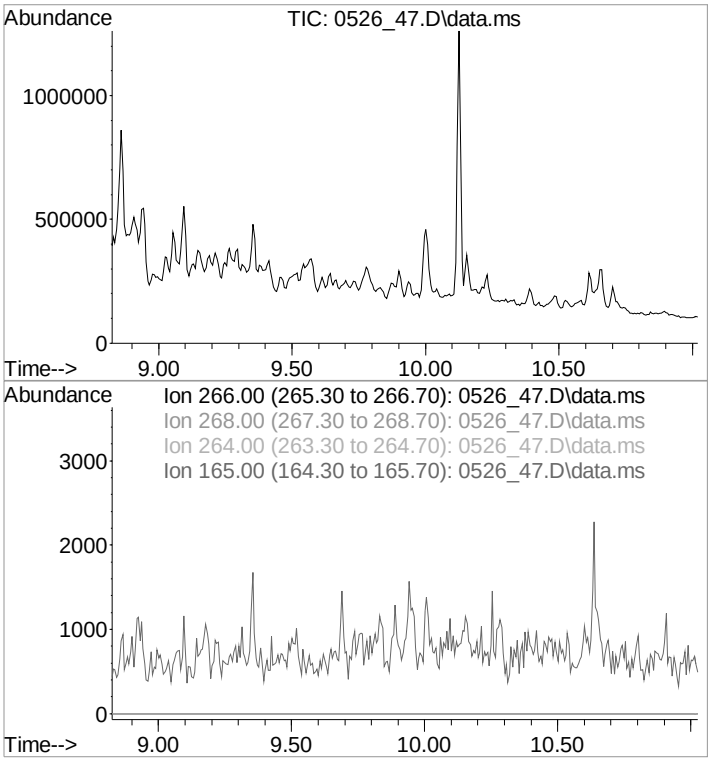


#70
n-octadecane
Concen: 3.2128882 ppb
RT: 9.937 min Scan# 1207
Delta R.T. -0.012 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 55 Resp: 4324

Ion	Ratio	Lower	Upper
55	100		
56	24.4	50.4	75.6#
70	18.9	25.2	37.8#
126	12.4	6.2	9.4#



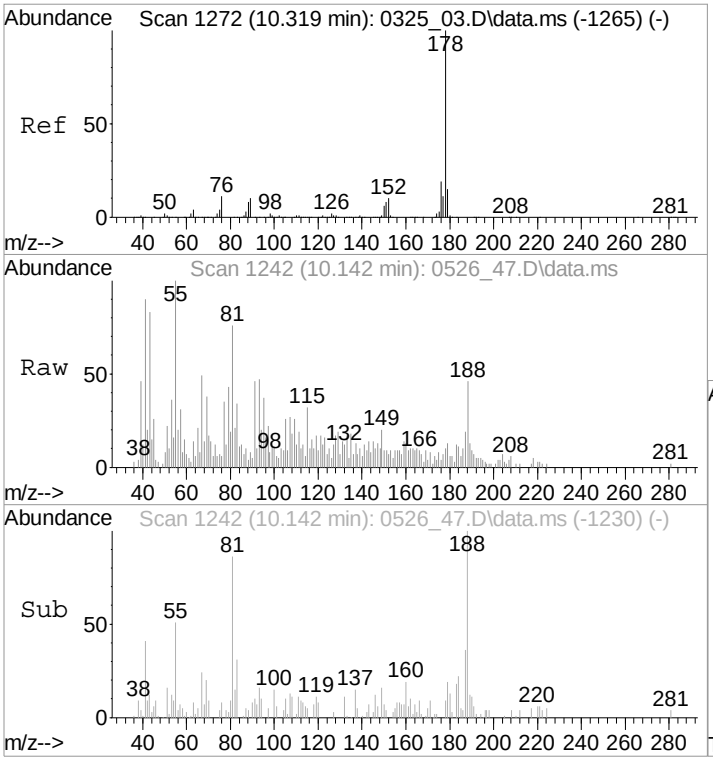


#71
Pentachlorophenol
Concen: N.D.
Expected RT: 9.92 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 266

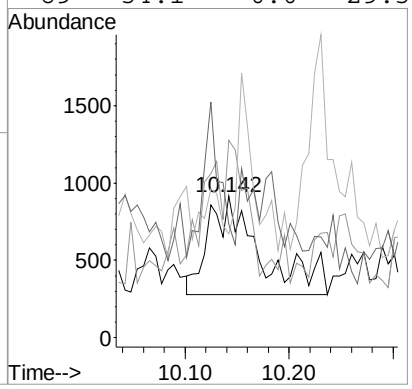
Sig	Exp Ratio
266	100
268	66.1
264	63.0
165	56.0

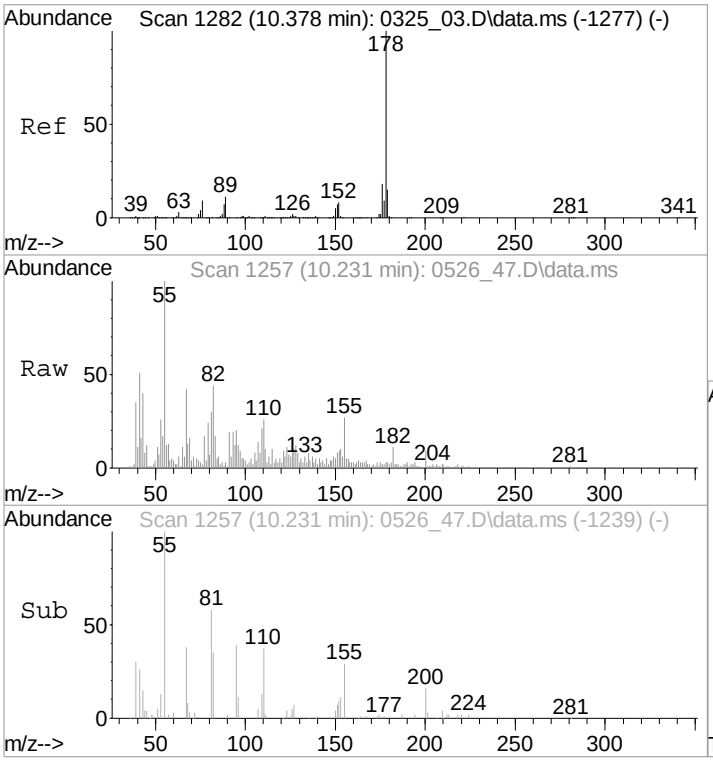


#72
Phenanthrene
Concen: 0.2514292 ppb
RT: 10.142 min Scan# 1242
Delta R.T. -0.029 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:178 Resp: 2183

Ion	Ratio	Lower	Upper
178	100		
179	116.0	0.0	34.7#
152	0.0	0.0	30.3
89	34.1	0.0	29.3#

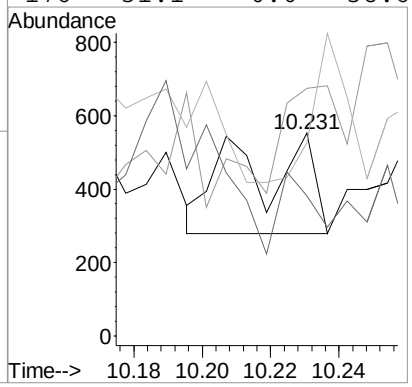


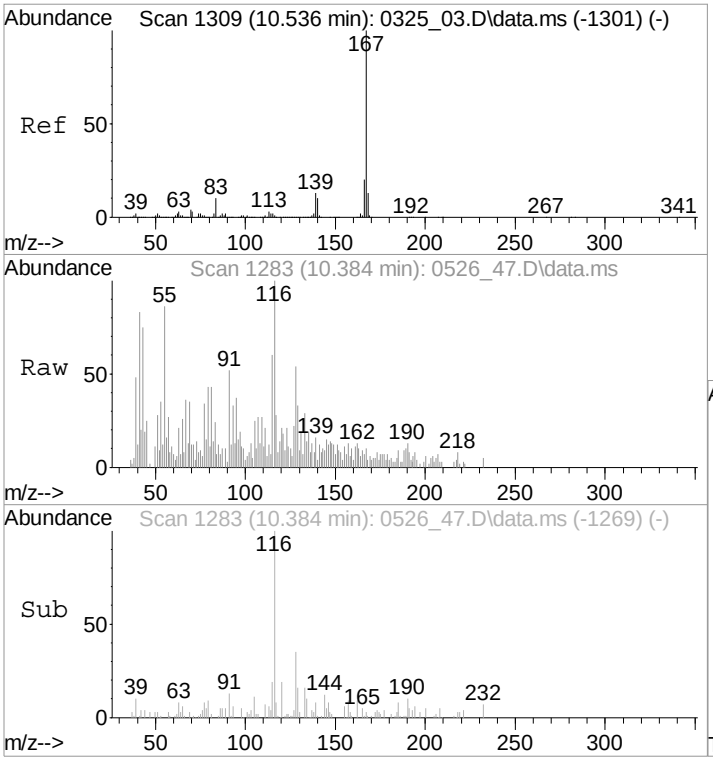


#73
Anthracene
Concen: Below Cal
RT: 10.231 min Scan# 1257
Delta R.T. 0.006 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:178 Resp: 385

Ion	Ratio	Lower	Upper
178	100		
179	4.0	0.0	35.6
177	0.0	0.0	29.9
176	31.1	0.0	38.6

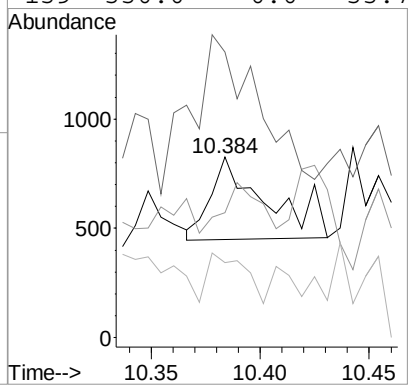


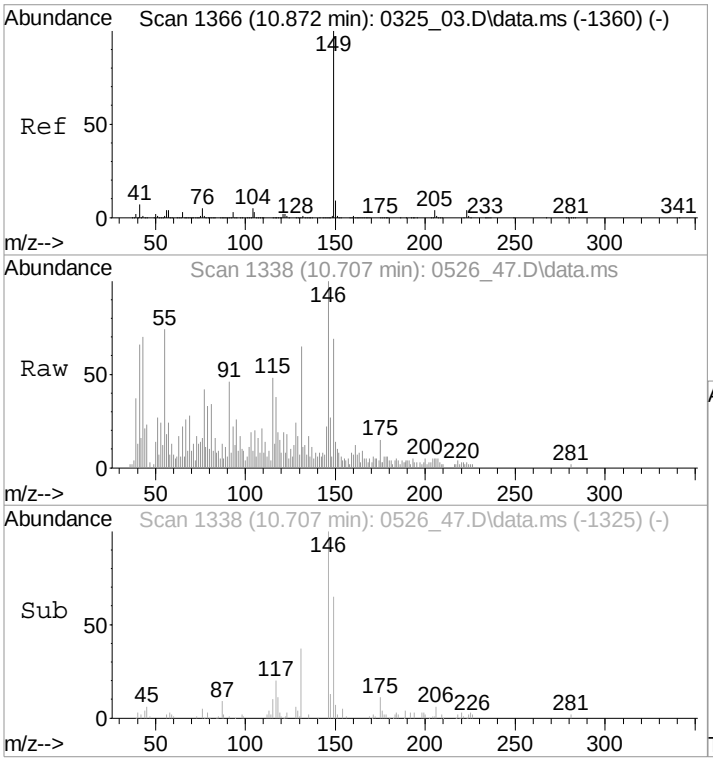


#74
Carbazole
Concen: Below Cal
RT: 10.384 min Scan# 1283
Delta R.T. -0.017 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:167 Resp: 673

Ion	Ratio	Lower	Upper
167	100		
166	54.8	0.9	40.9#
168	0.0	0.0	33.5
139	330.0	0.0	33.7#

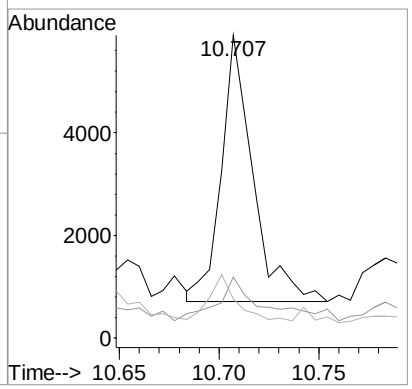


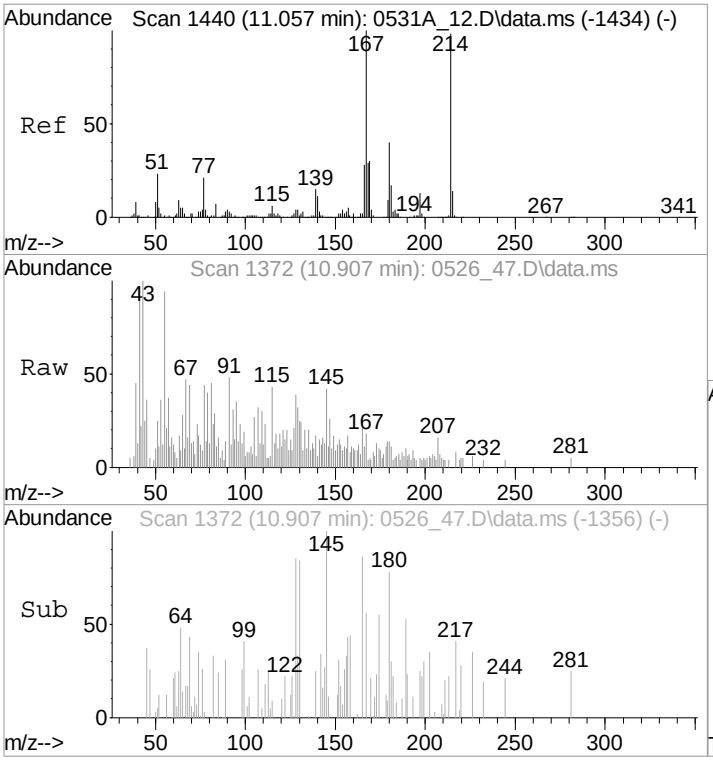


#75
Di-n-butyl phthalate
Concen: 0.5334315 ppb
RT: 10.707 min Scan# 1338
Delta R.T. -0.023 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:149 Resp: 5747

Ion	Ratio	Lower	Upper
149	100		
150	13.7	0.0	28.7
104	7.8	0.0	25.3

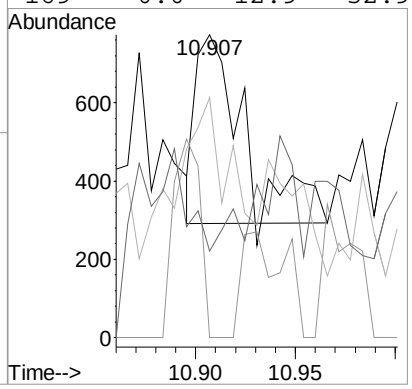


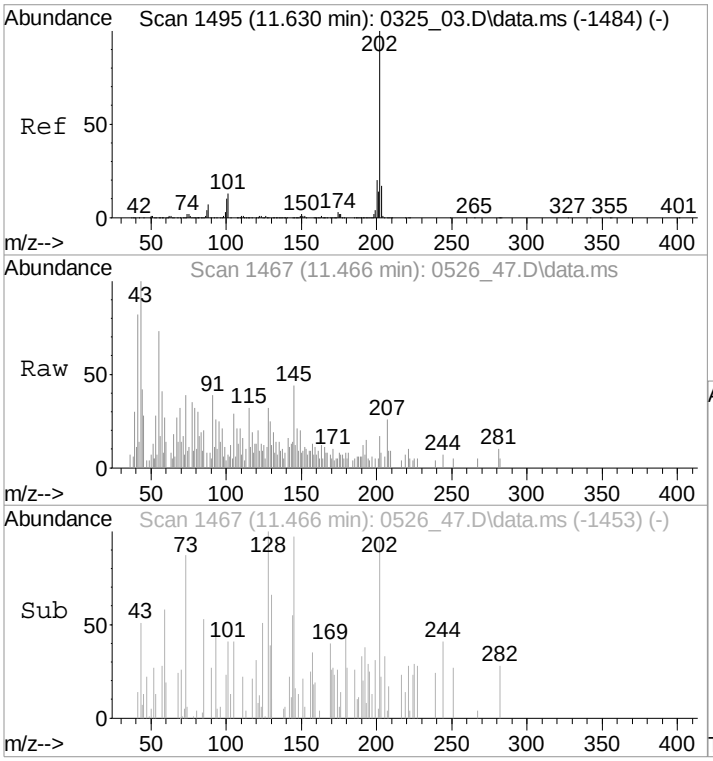


#76
2-nitrodiphenylamine
Concen: 4.4947126 ppb
RT: 10.907 min Scan# 1372
Delta R.T. -0.005 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:167 Resp: 823

Ion	Ratio	Lower	Upper
167	100		
214	57.7	58.7	98.7#
180	0.0	13.7	53.7#
169	0.0	12.9	52.9#

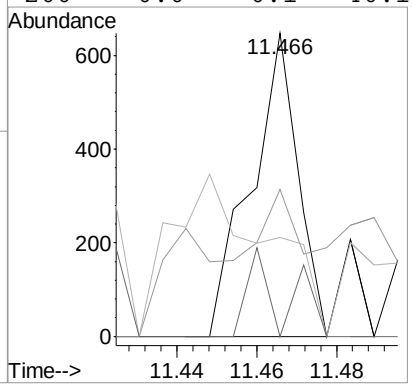


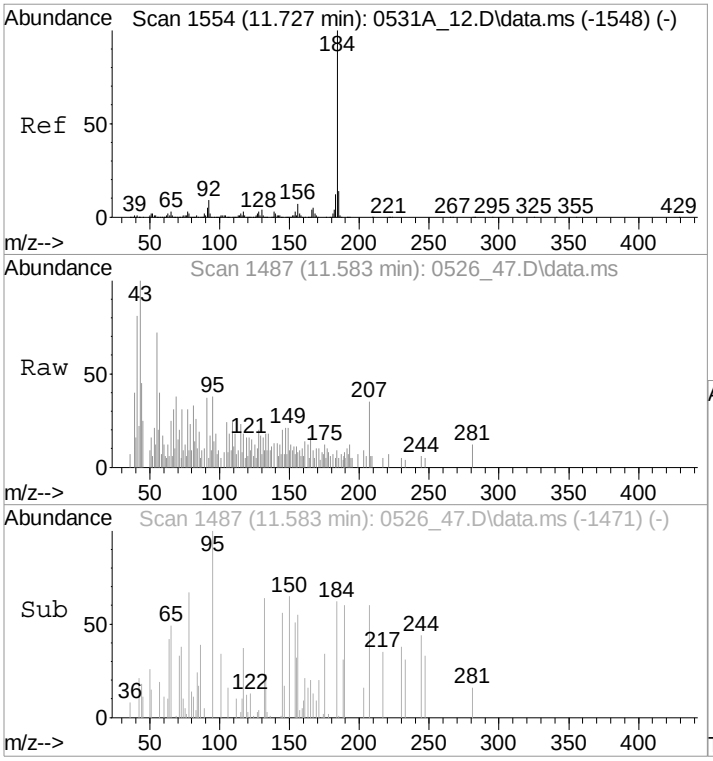


#77
Fluoranthene
Concen: Below Cal
RT: 11.466 min Scan# 1467
Delta R.T. -0.018 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:202 Resp: 530

Ion	Ratio	Lower	Upper
202	100		
203	19.3	0.0	37.2
201	32.6	0.0	34.6
200	0.0	0.1	40.1#

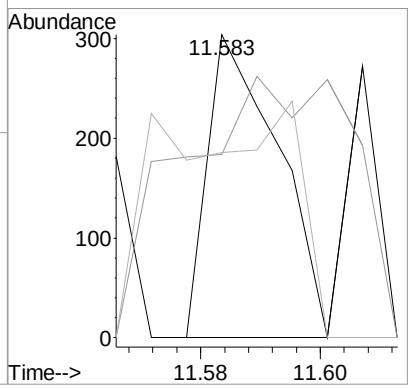


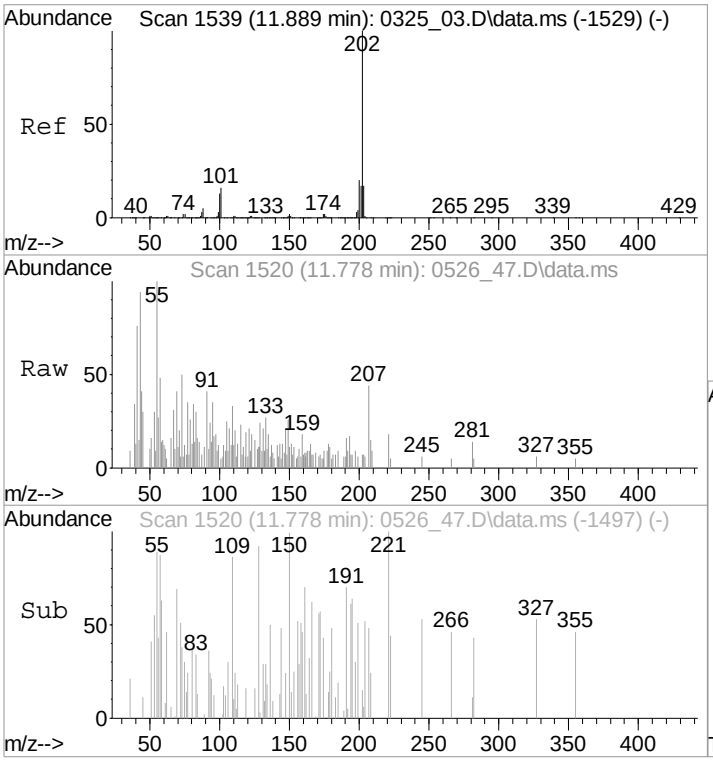


#79
Benzidine
Concen: 4.2139597 ppb
RT: 11.583 min Scan# 1487
Delta R.T. -0.006 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:184 Resp: 249

Ion	Ratio	Lower	Upper
184	100		
185	209.2	0.0	33.4#
183	143.8	0.0	31.7#

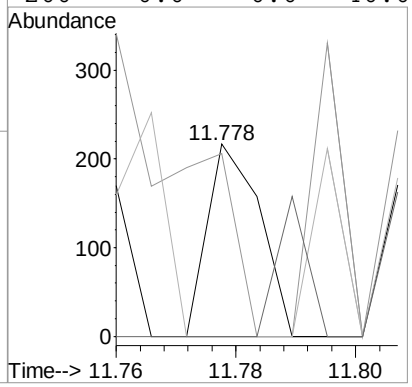


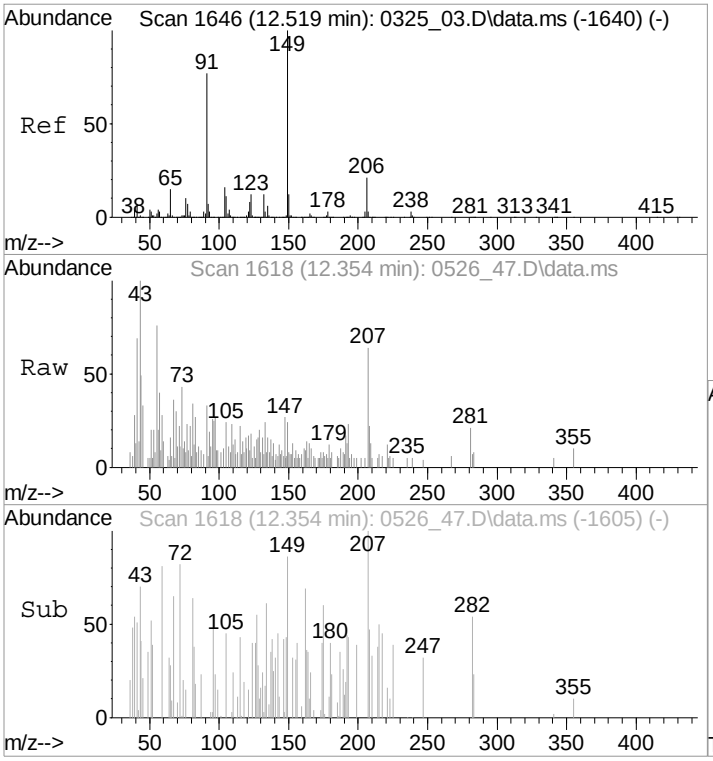


#80
Pyrene
Concen: Below Cal
RT: 11.778 min Scan# 1520
Delta R.T. 0.035 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:202 Resp: 132

Ion	Ratio	Lower	Upper
202	100		
203	7.4	0.0	37.4
201	0.0	0.0	37.1
200	0.0	0.0	40.0

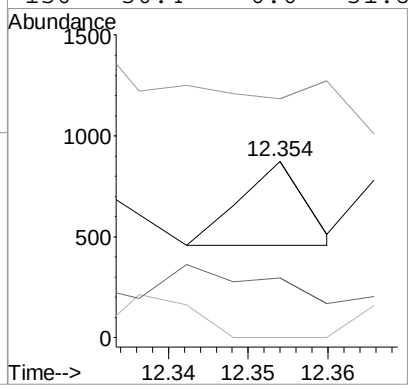


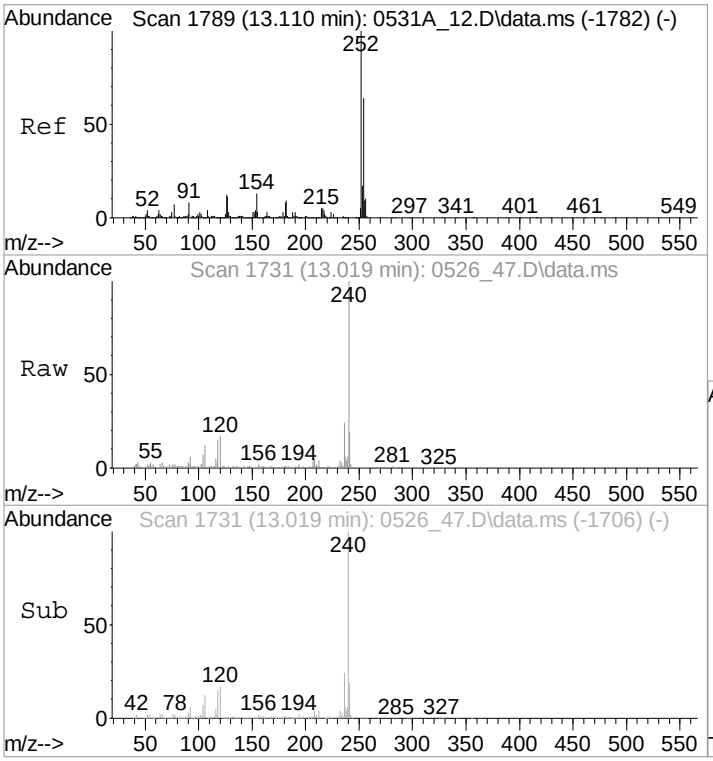


#82
Benzylbutyl phthalate
Concen: Below Cal
RT: 12.354 min Scan# 1618
Delta R.T. -0.023 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:149 Resp: 237

Ion	Ratio	Lower	Upper
149	100		
91	0.0	58.5	98.5#
206	0.0	0.0	38.2
150	30.4	0.0	31.8

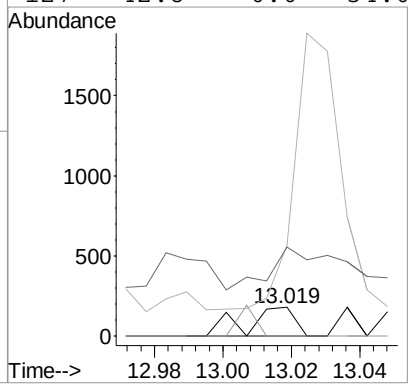


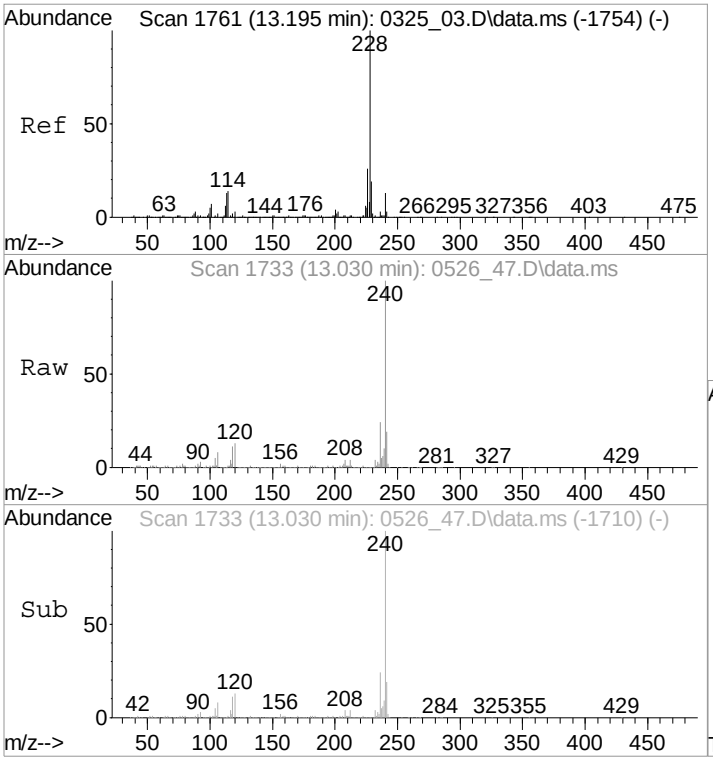


#83
3,3-Dichlorobenzidine
Concen: Below Cal
RT: 13.019 min Scan# 1731
Delta R.T. 0.047 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:252 Resp: 176

Ion	Ratio	Lower	Upper
252	100		
254	0.0	43.0	83.0#
154	161.7	0.0	36.0#
127	42.8	0.0	34.0#

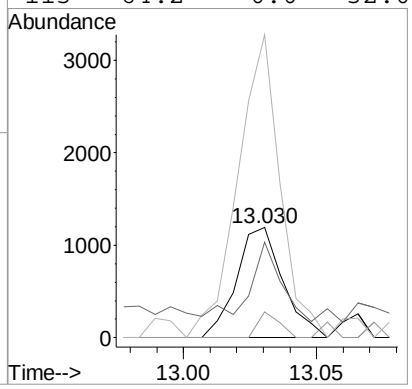


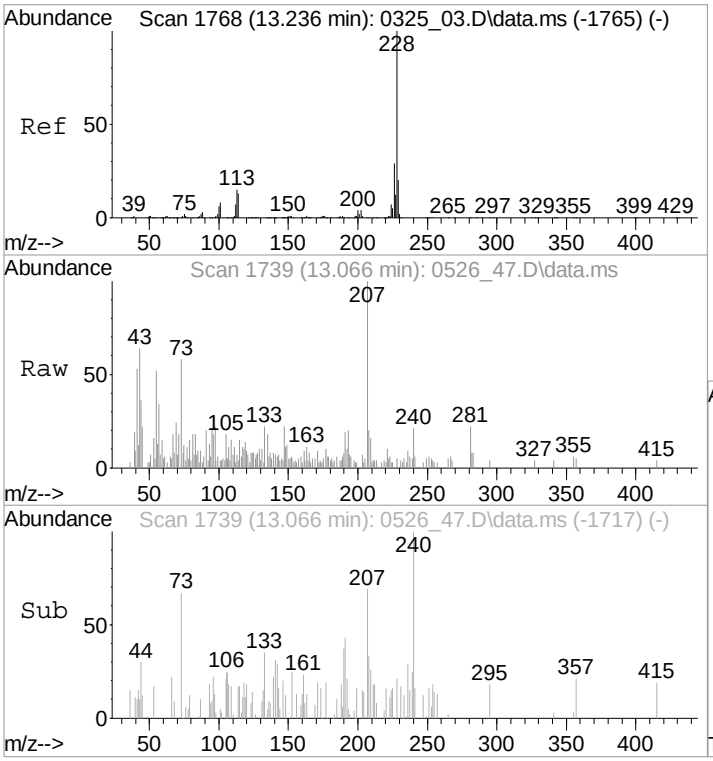


#84
Benzo(a)anthracene
Concen: 0.1334381 ppb
RT: 13.030 min Scan# 1733
Delta R.T. -0.017 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:228 Resp: 1447

Ion	Ratio	Lower	Upper
228	100		
226	23.5	6.1	46.1
114	274.9	0.0	33.0#
113	64.2	0.0	32.0#

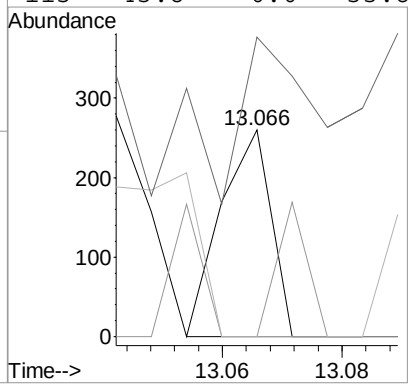


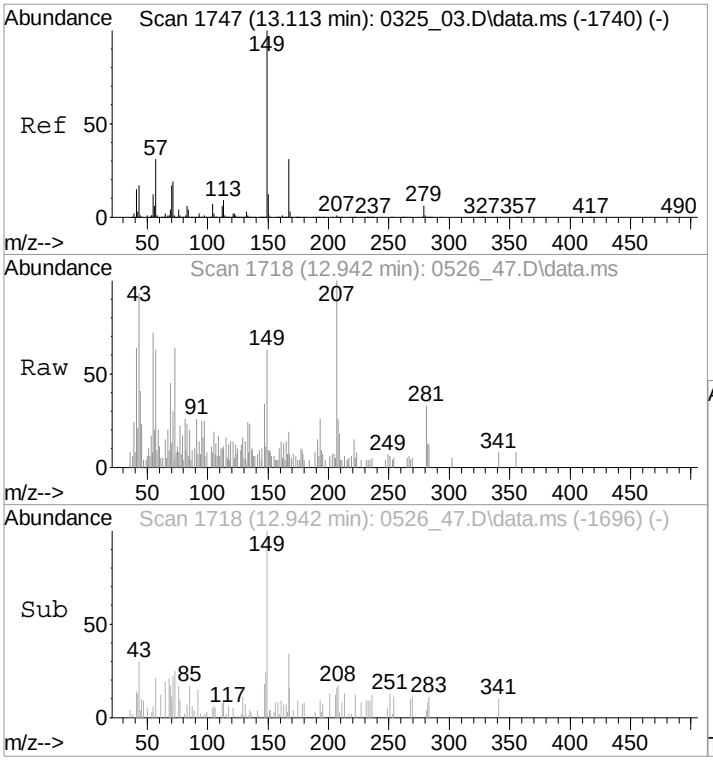


#85
Chrysene
Concen: Below Cal
RT: 13.066 min Scan# 1739
Delta R.T. -0.023 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:228 Resp: 152

Ion	Ratio	Lower	Upper
228	100		
226	0.0	9.0	49.0#
229	0.0	0.0	39.4
113	43.8	0.0	33.8#

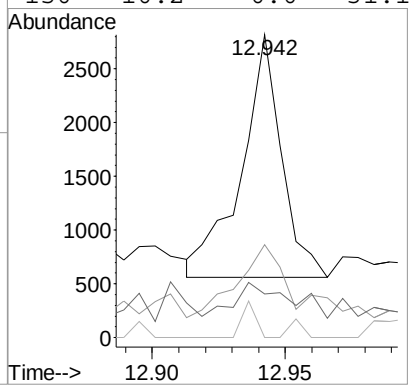


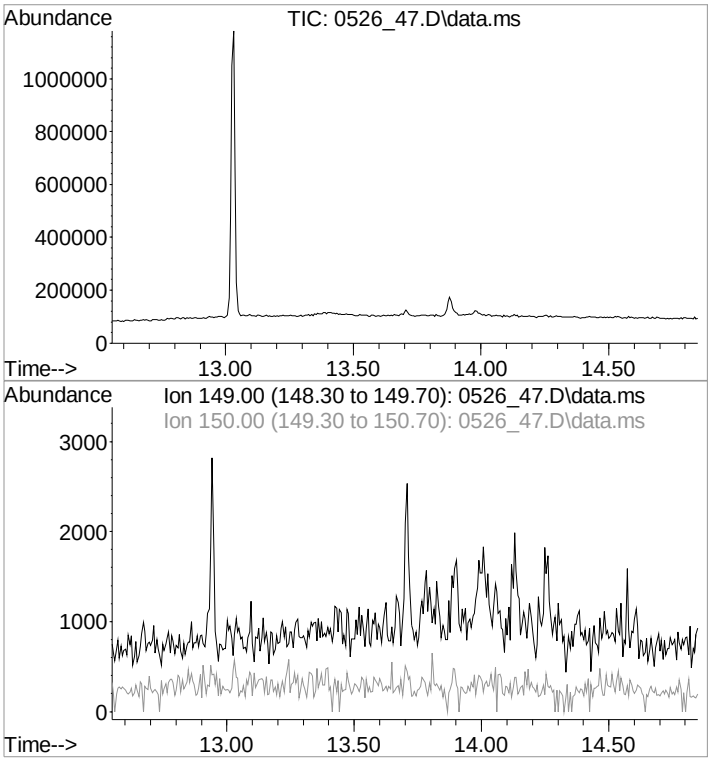


#86
bis(2-Ethylhexyl)phthalate
Concen: 0.2764135 ppb
RT: 12.942 min Scan# 1718
Delta R.T. -0.023 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:149 Resp: 2371

Ion	Ratio	Lower	Upper
149	100		
167	29.8	8.4	48.4
279	0.0	0.0	25.2
150	10.2	0.0	31.1



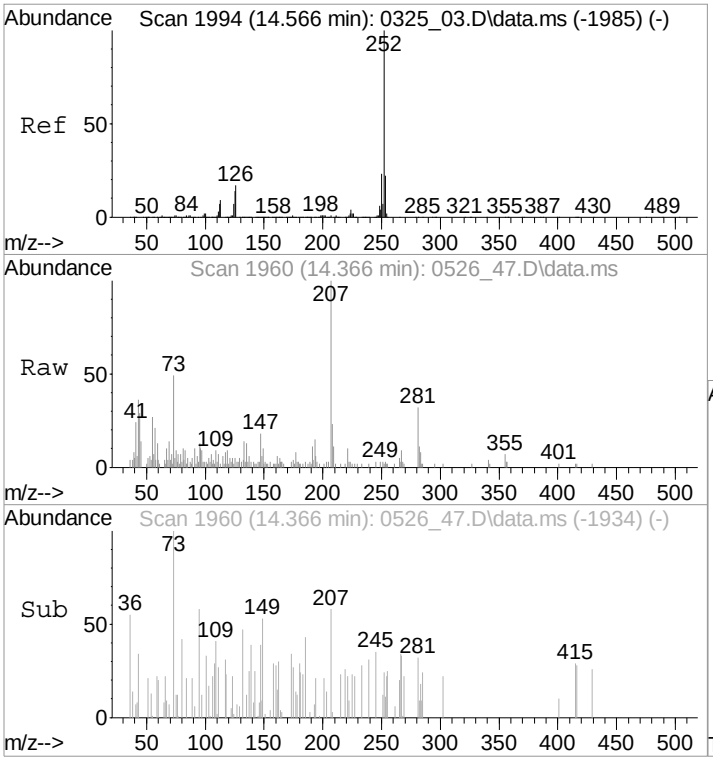


#87
Di-n-octyl phthalate
Concen: N.D.
Expected RT: 13.70 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 149

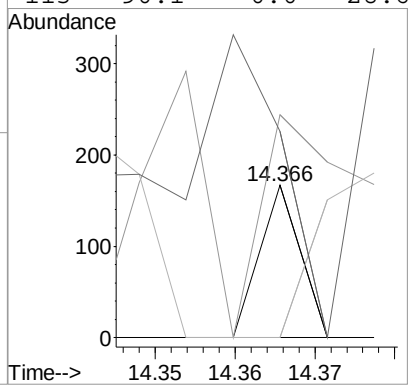
Sig	Exp Ratio
149	100
150	9.5

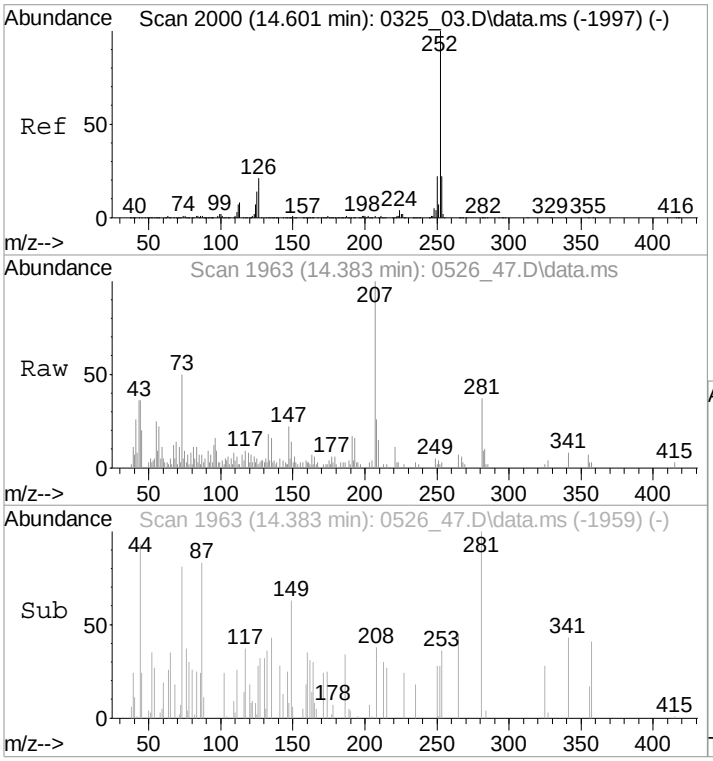


#89
Benzo(b)fluoranthene
Concen: Below Cal
RT: 14.366 min Scan# 1960
Delta R.T. 0.000 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:252 Resp: 59

Ion	Ratio	Lower	Upper
252	100		
253	1.2	1.8	41.8#
126	0.0	0.0	36.3
113	90.1	0.0	28.6#

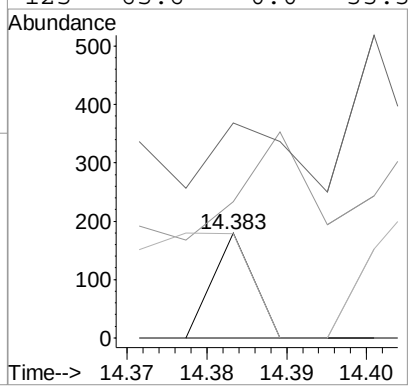


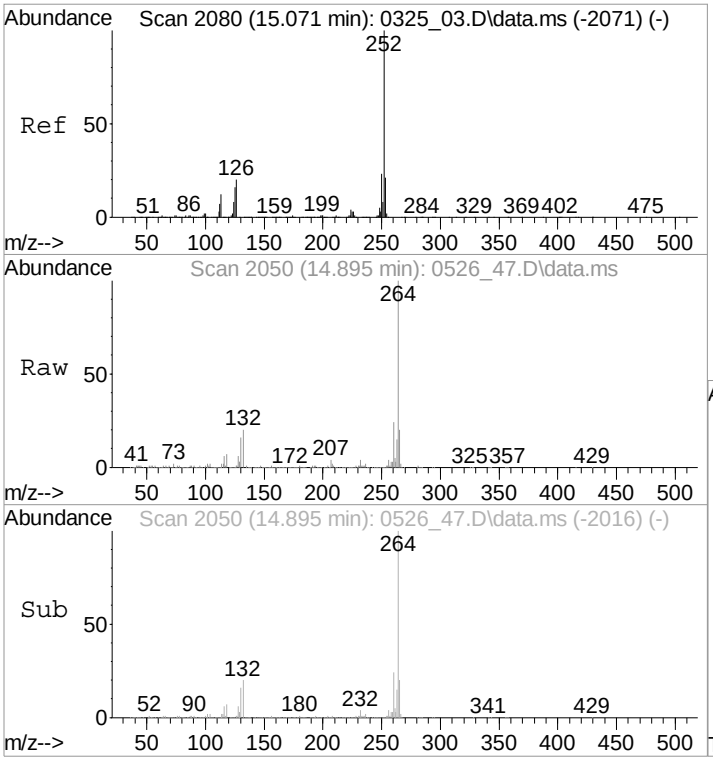


#90
Benzo(k)fluoranthene
Concen: Below Cal
RT: 14.383 min Scan# 1963
Delta R.T. -0.017 min
Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:252 Resp: 64

Ion	Ratio	Lower	Upper
252	100		
253	36.1	1.3	41.3
126	99.4	0.0	39.4#
125	65.6	0.0	33.3#

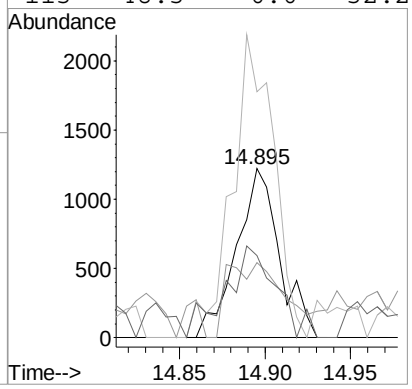


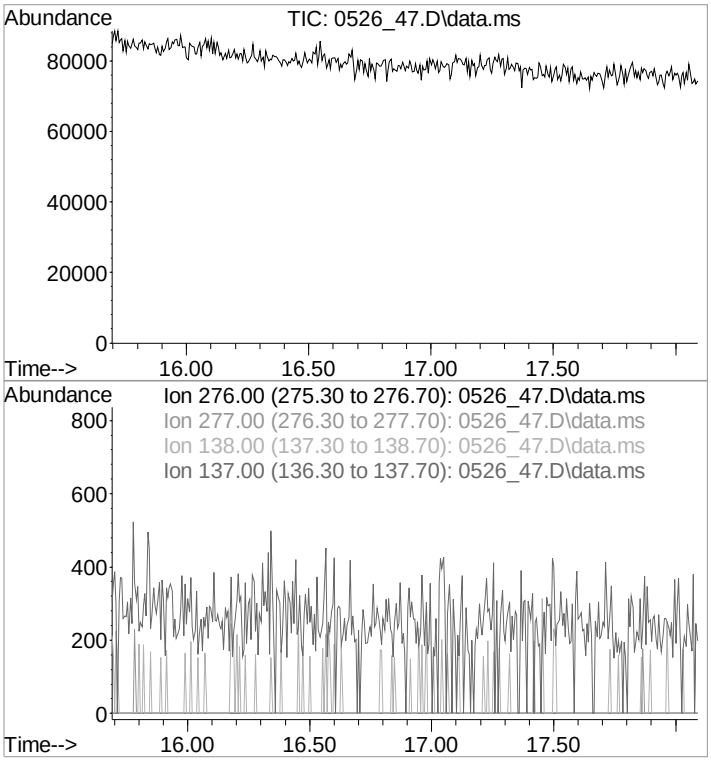


#91
Benzo(a)pyrene
Concen: 0.2219955 ppb
RT: 14.895 min Scan# 2050
Delta R.T. 0.047 min
Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion:252 Resp: 2139

Ion	Ratio	Lower	Upper
252	100		
253	28.0	1.7	41.7
126	145.2	0.0	39.6#
113	48.3	0.0	32.2#



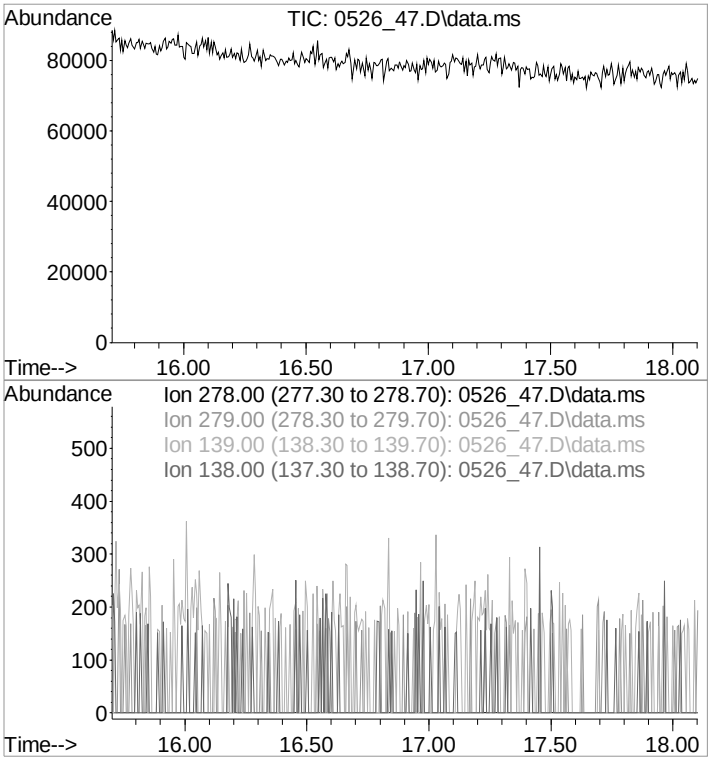


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 16.84 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
277	24.7
138	35.5
137	23.2

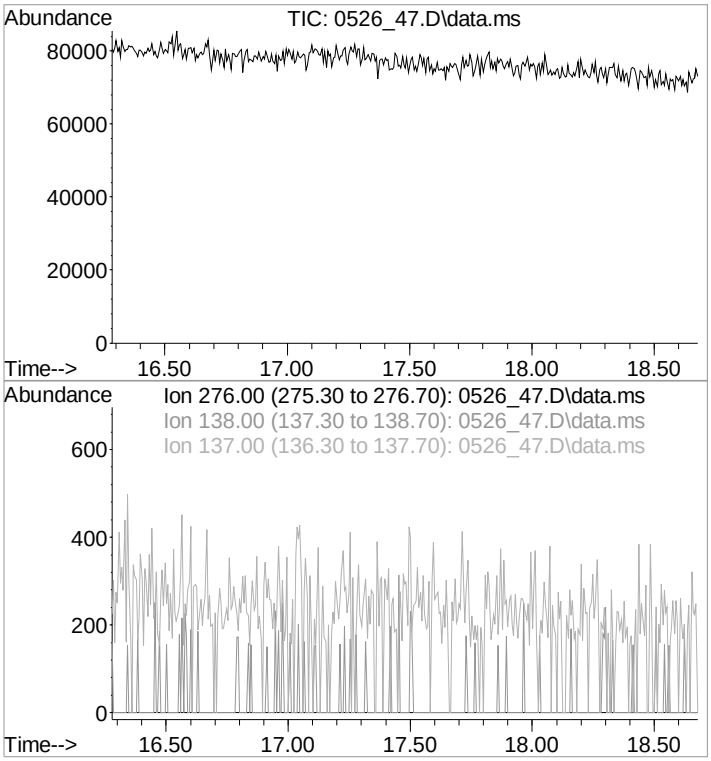


#93
Dibenz(a,h)anthracene
Concen: N.D.
Expected RT: 16.85 min

Lab File: 0526 47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 278

Sig	Exp Ratio
278	100
279	23.4
139	21.9
138	32.3



#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.43 min

Lab File: 0526_47.D
Acq: 27 May 2015 9:15 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	30.7
137	26.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 48.D
Acq On : 27 May 2015 9:38 pm
Operator : 377
Sample : L767115-05 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 16 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:30:07 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	68463	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	276044	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	202470	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	377655	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	433690	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	418510	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	24071	11.7140785 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 58.57%		
7) Phenol-d5	4.954	99	26961	9.6098718 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 48.05%		
23) Nitrobenzene-d5	5.848	82	23557	8.1247327 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 81.25%		
44) 2-Fluorobiphenyl	7.742	172	44050	6.7770513 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 67.77%		
67) 2,4,6-Tribromophenol	9.360	330	17422	17.5001651 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 87.50%		
81) p-Terphenyl-d14	11.848	244	66363	6.1424531 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 61.42%		
Target Compounds					Qvalue
2) Pyridine	3.219	79	73	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	5.037	66	248	0.1623882 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.925	105	311	0.2657258 ppb #	1
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.125	41	19995	12.0953624 ppb #	1
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	5.613	108	58	N.D.	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.690	105	1916	0.5290397 ppb #	80
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	6.096	82	3695m	0.7153427 ppb	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.607	128	3638	0.4584901 ppb #	13
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.001	113	5035	6.3972790 ppb #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 48.D
Acq On : 27 May 2015 9:38 pm
Operator : 377
Sample : L767115-05 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 16 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:30:07 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d	
37) 2-Methylnaphthalene	7.354	142	959	0.1725718 ppb #	1
38) 1-Methylnaphthalene	7.460	142	2307	0.4698006 ppb #	1
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	7.854	154	779	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D. d	
47) 2-Nitroaniline	0.000		0	N.D. d	
48) Acenaphthylene	8.278	152	3874	0.4265551 ppb	67
49) Dimethyl phthalate	8.172	163	1886m	0.2825012 ppb	
50) 2,6-Dinitrotoluene	0.000		0	N.D. d	
51) 3-Nitroaniline	0.000		0	N.D. d	
52) Acenaphthene	8.531	153	2664	0.4367890 ppb #	76
53) 2,4-Dinitrophenol	0.000		0	N.D. d	
54) Dibenzofuran	8.713	168	4218m	0.4916706 ppb	
55) 2,4-Dinitrotoluene	0.000		0	N.D. d	
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57) 4-Nitrophenol	0.000		0	N.D. d	
58) Fluorene	9.113	166	216	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D. d	
60) Diethyl phthalate	9.013	149	806	N.D.	
61) 4-Nitroaniline	0.000		0	N.D. d	
62) Azobenzene	0.000		0	N.D. d	
63) Atrazine	9.760	200	2224	1.2550663 ppb #	39
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D. d	
66) N-Nitrosodiphenylamine	9.225	169	231	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.942	55	5898	3.2664178 ppb #	47
71) Pentachlorophenol	0.000		0	N.D.	
72) Phenanthrene	10.131	178	2316	0.1988188 ppb #	1
73) Anthracene	10.254	178	77	N.D.	
74) Carbazole	0.000		0	N.D. d	
75) Di-n-butyl phthalate	10.707	149	4636	0.3207288 ppb	82
76) 2-nitrodiphenylamine	10.907	167	1258	3.7392015 ppb #	56
77) Fluoranthene	11.460	202	894	N.D.	
79) Benzidine	11.583	184	62	3.3657128 ppb #	68
80) Pyrene	11.719	202	258	N.D.	
82) Benzylbutyl phthalate	0.000		0	N.D. d	
83) 3,3-Dichlorobenzidine	12.977	252	118	N.D.	
84) Benzo(a)anthracene	13.030	228	1312	N.D.	
85) Chrysene	13.030	228	1312	N.D.	
86) bis(2-Ethylhexyl)phtha...	12.942	149	1990m	0.1722113 ppb	
87) Di-n-octyl phthalate	13.707	149	2237	N.D.	
89) Benzo(b)fluoranthene	14.342	252	137	N.D.	
90) Benzo(k)fluoranthene	14.407	252	74	N.D.	
91) Benzo(a)pyrene	14.801	252	56	N.D.	
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	16.865	278	54	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 48.D
Acq On : 27 May 2015 9:38 pm
Operator : 377
Sample : L767115-05 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 16 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:30:07 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

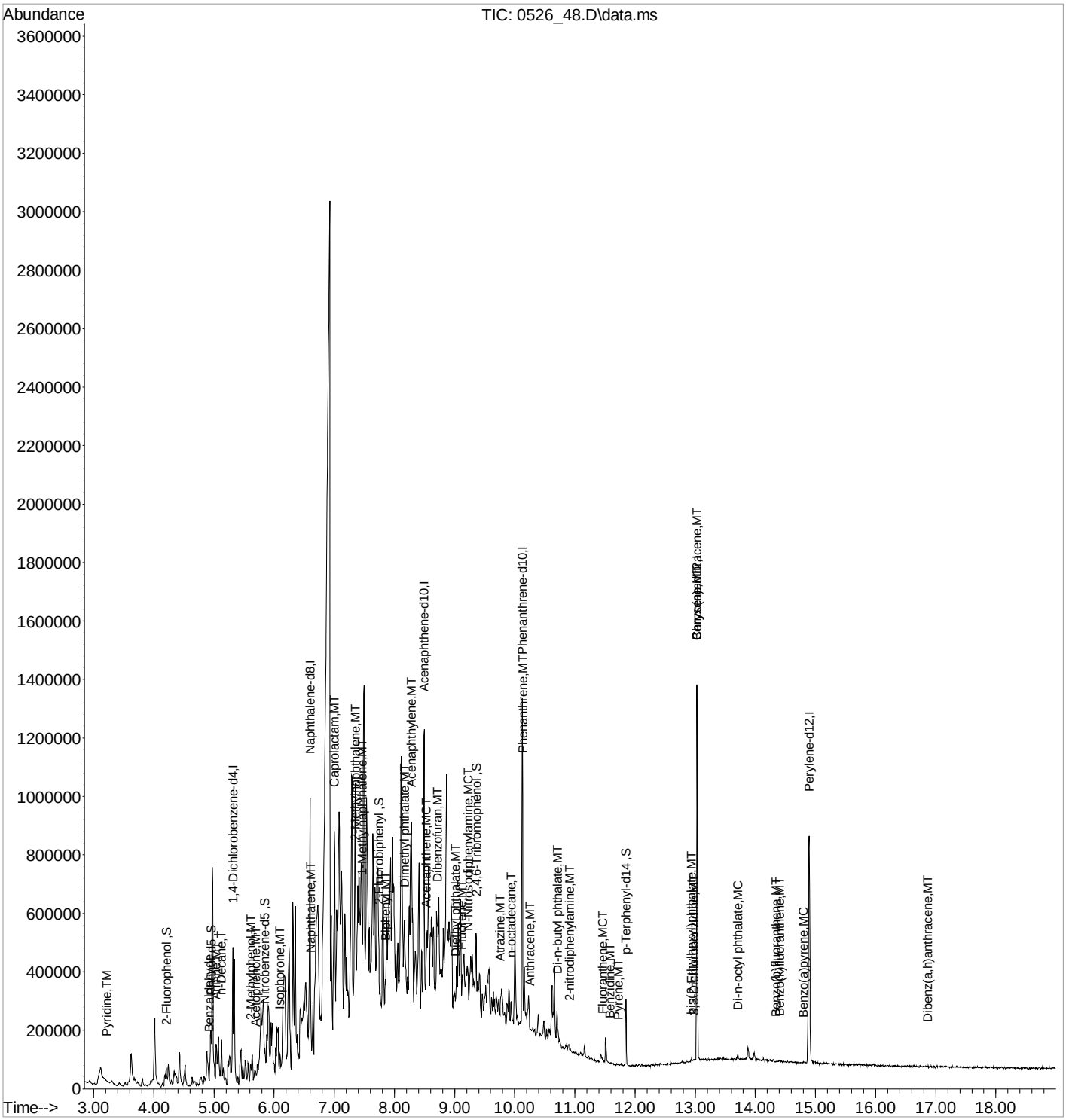
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

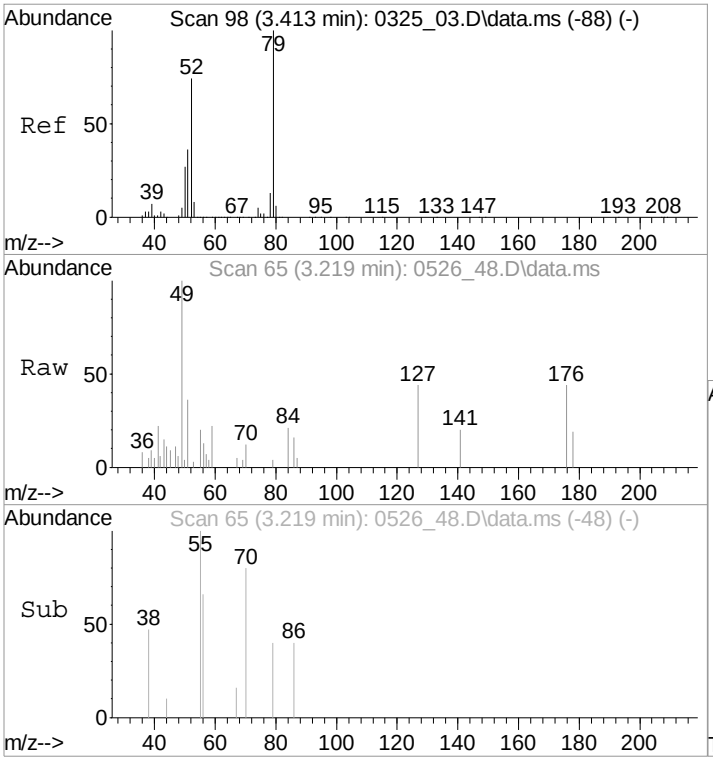
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 48.D
Acq On : 27 May 2015 9:38 pm
Operator : 377
Sample : L767115-05 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 16 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:30:07 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

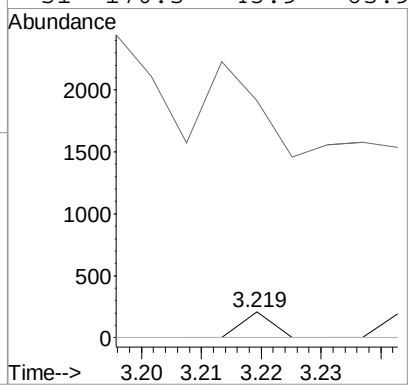


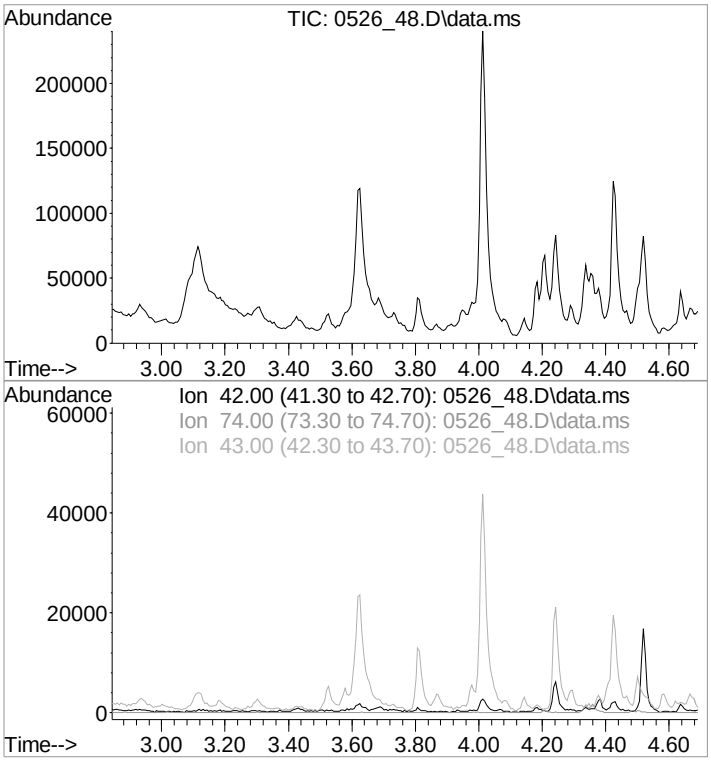


#2
Pyridine
Concen: Below Cal
RT: 3.219 min Scan# 65
Delta R.T. 0.000 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 79 Resp: 73

Ion	Ratio	Lower	Upper
79	100		
52	0.0	95.4	143.0#
78	0.0	10.3	15.5#
51	170.5	43.9	65.9#



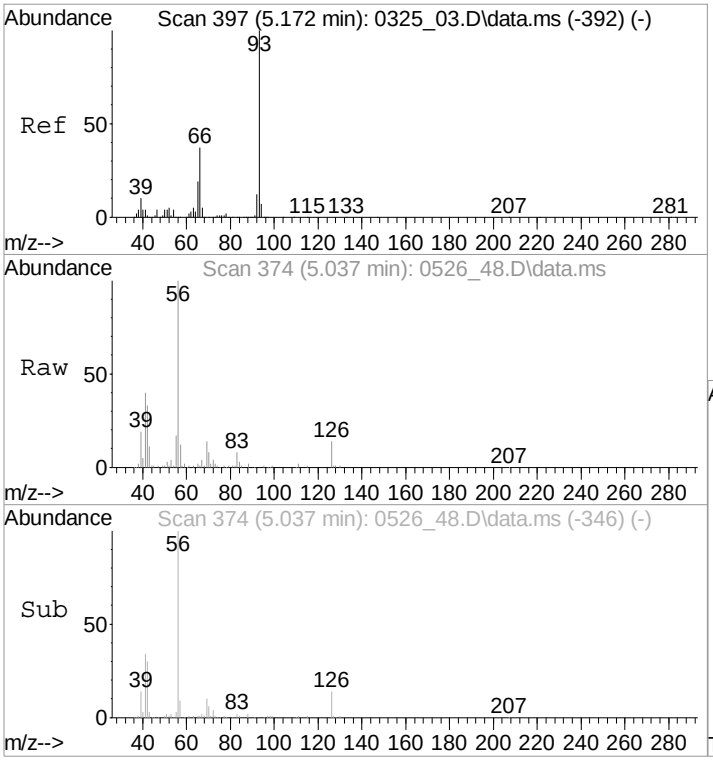


#3
N-Nitrosodimethylamine
Concen: N.D.
Expected RT: 3.19 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 42

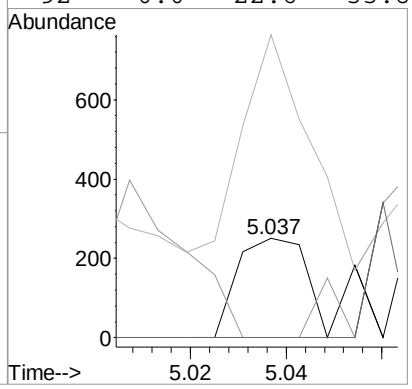
Sig	Exp Ratio
42	100
74	89.6
43	50.7

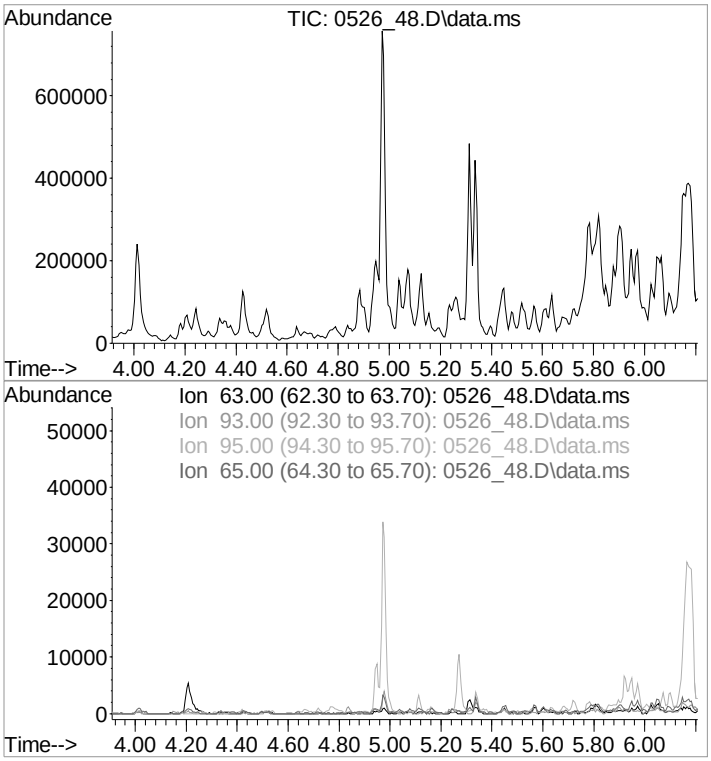


#5
Aniline
Concen: 0.1623882 ppb
RT: 5.037 min Scan# 374
Delta R.T. 0.012 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 66 Resp: 248

Ion	Ratio	Lower	Upper
66	100		
93	0.0	176.8	265.2#
65	421.0	40.7	61.1#
92	0.0	22.6	33.8#



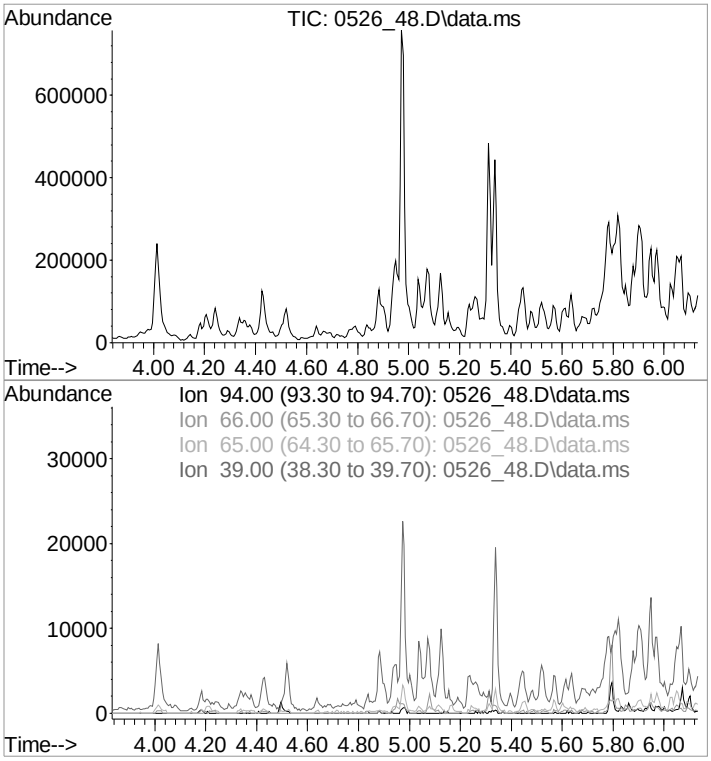


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.06 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
93	103.8
95	34.5
65	30.4

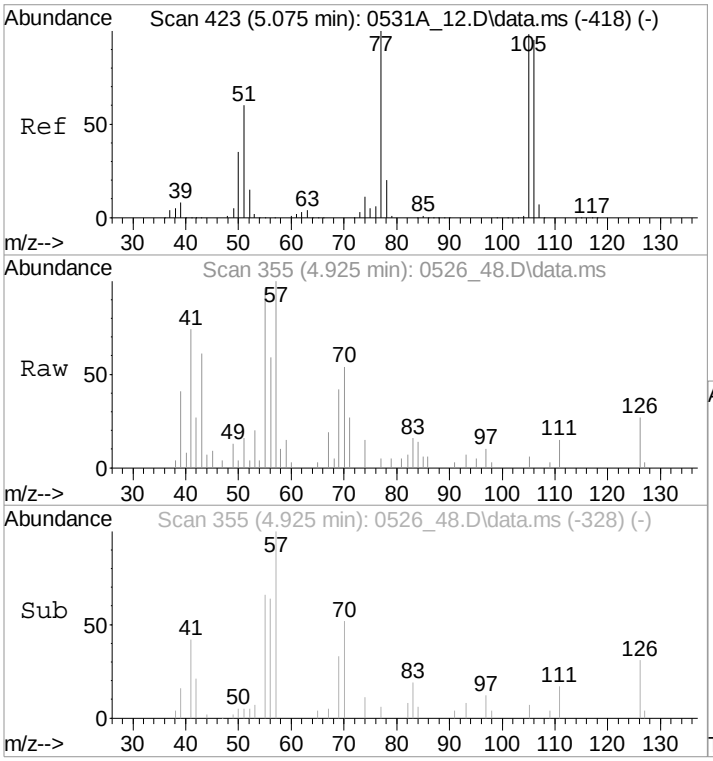


#8
Phenol
Concen: N.D.
Expected RT: 4.98 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 94

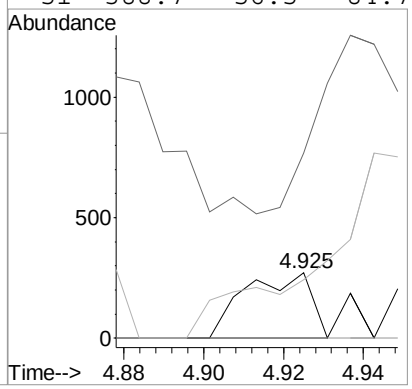
Sig	Exp Ratio
94	100
66	50.4
65	35.5
39	29.9

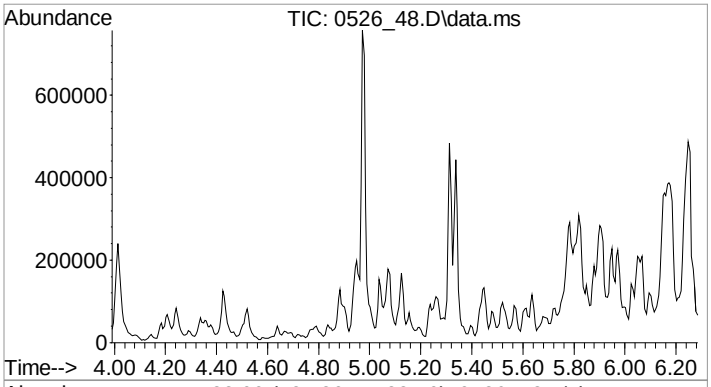


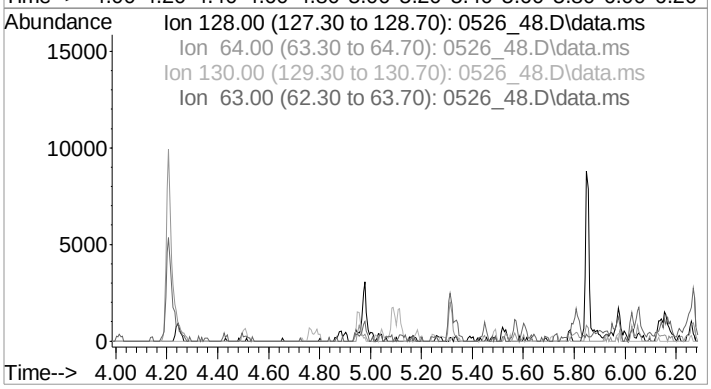
#9
Benzaldehyde
Concen: 0.2657258 ppb
RT: 4.925 min Scan# 355
Delta R.T. 0.006 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:105 Resp: 311

Ion	Ratio	Lower	Upper
105	100		
106	0.0	78.0	117.0#
77	474.6	87.4	131.0#
51	388.7	56.5	84.7#





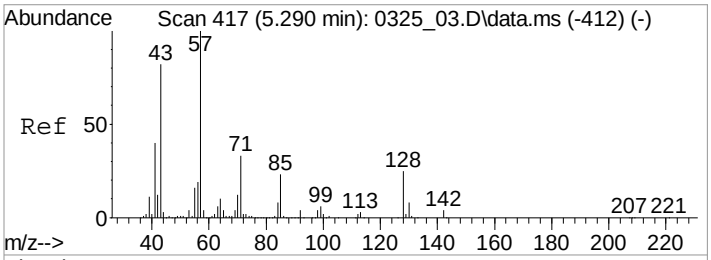


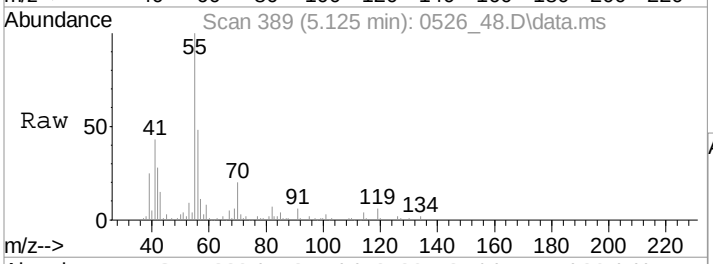
#10
2-Chlorophenol
Concen: N.D.
Expected RT: 5.14 min

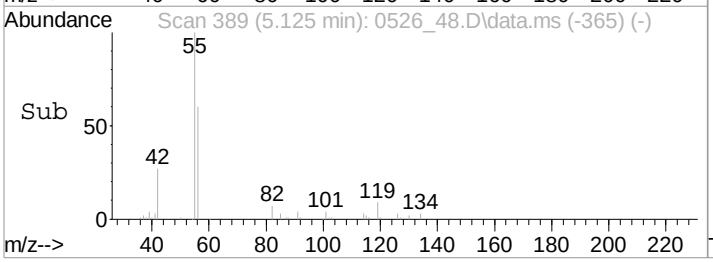
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
64	56.2
130	32.1
63	40.7



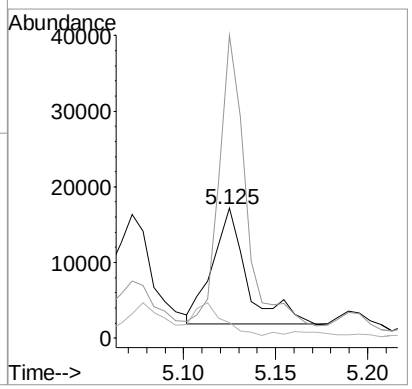


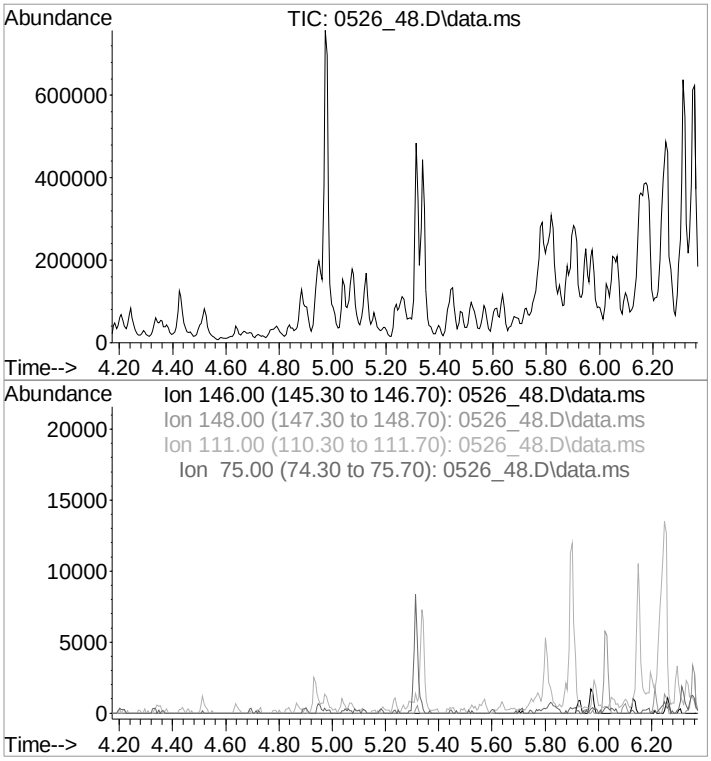


#11
n-Decane
Concen: 12.0953624 ppb
RT: 5.125 min Scan# 389
Delta R.T. -0.012 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 41 Resp: 19995

Ion	Ratio	Lower	Upper
41	100		
55	192.4	31.7	47.5#
67	22.8	2.2	3.2#



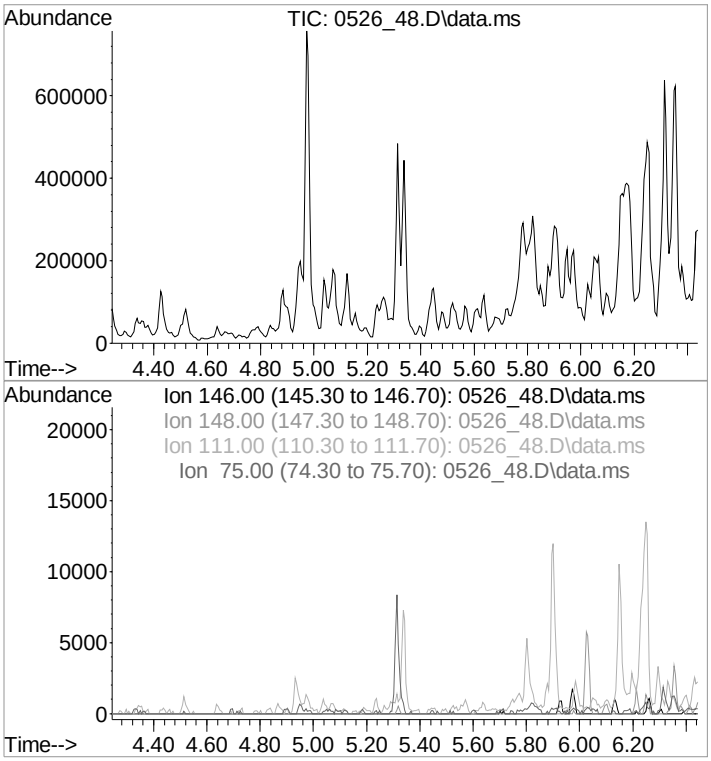


#12
1,3-Dichlorobenzene
Concen: N.D.
Expected RT: 5.27 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	61.0
111	45.0
75	36.9

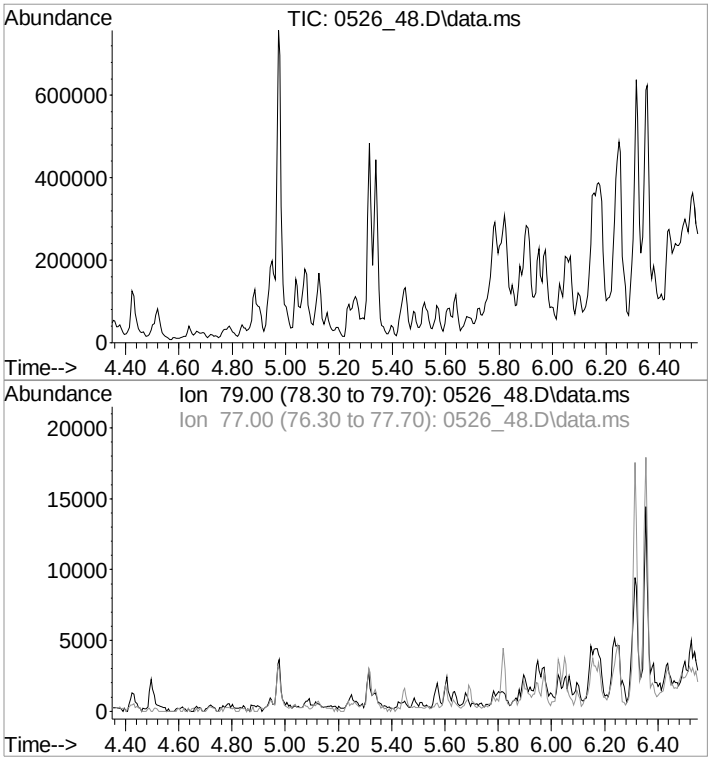


#13
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 5.34 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.3
111	42.9
75	35.3

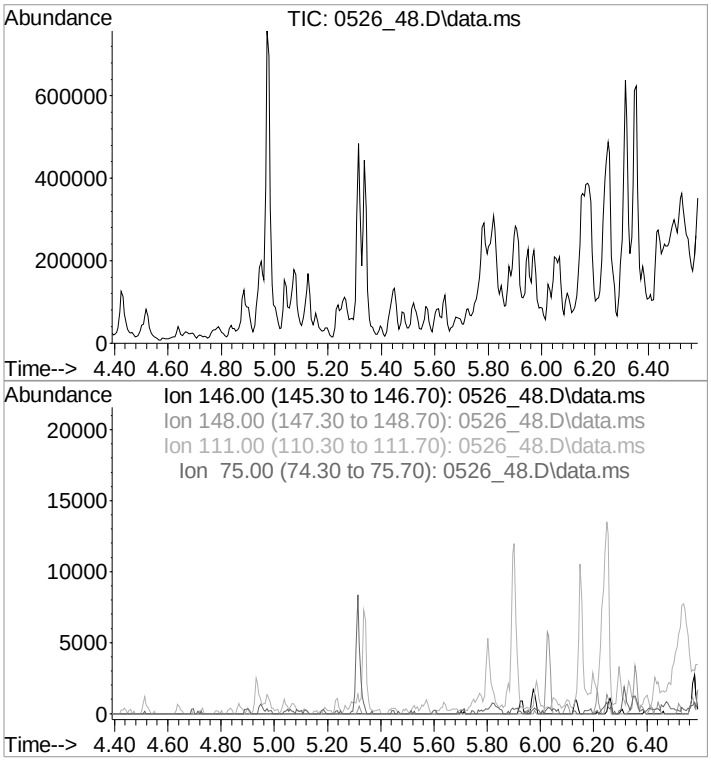


#14
Benzyl Alcohol
Concen: N.D.
Expected RT: 5.45 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
77	66.5

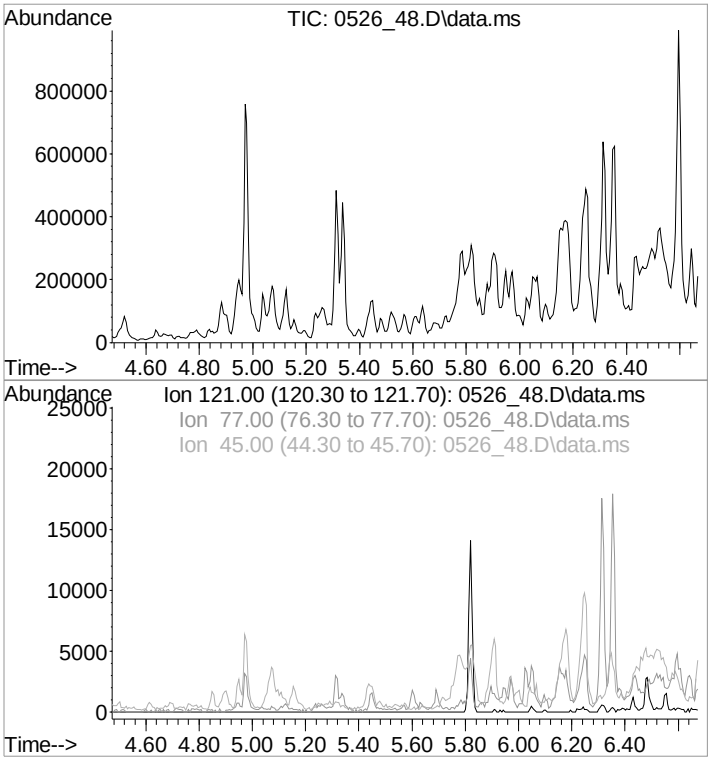


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.49 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.1
111	46.1
75	35.4

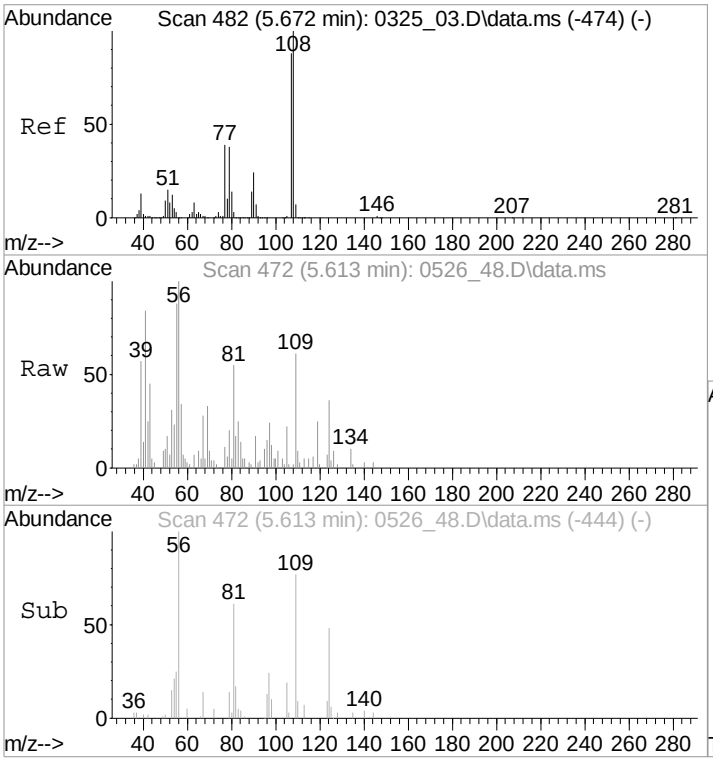


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.57 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 121

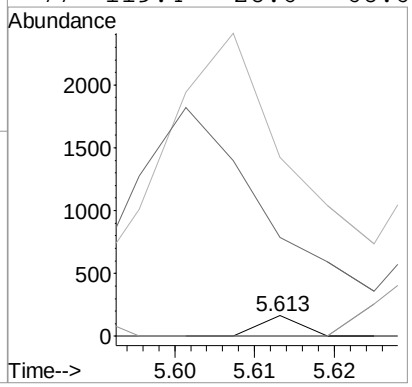
Sig	Exp Ratio
121	100
77	58.8
45	562.9

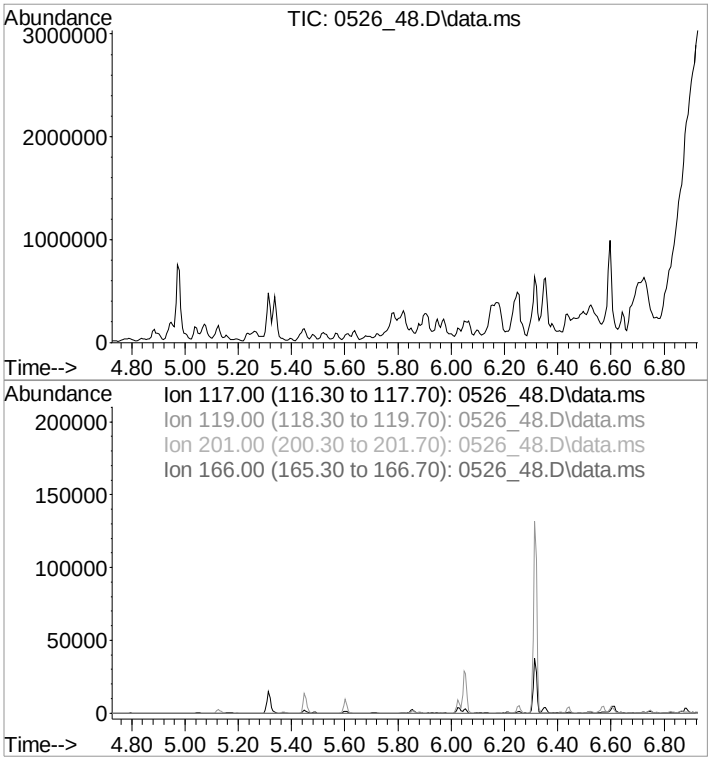


#17
2-Methylphenol
Concen: Below Cal
RT: 5.613 min Scan# 472
Delta R.T. 0.065 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:108 Resp: 58

Ion	Ratio	Lower	Upper
108	100		
107	0.0	67.6	107.6#
79	233.3	27.2	67.2#
77	119.4	28.6	68.6#



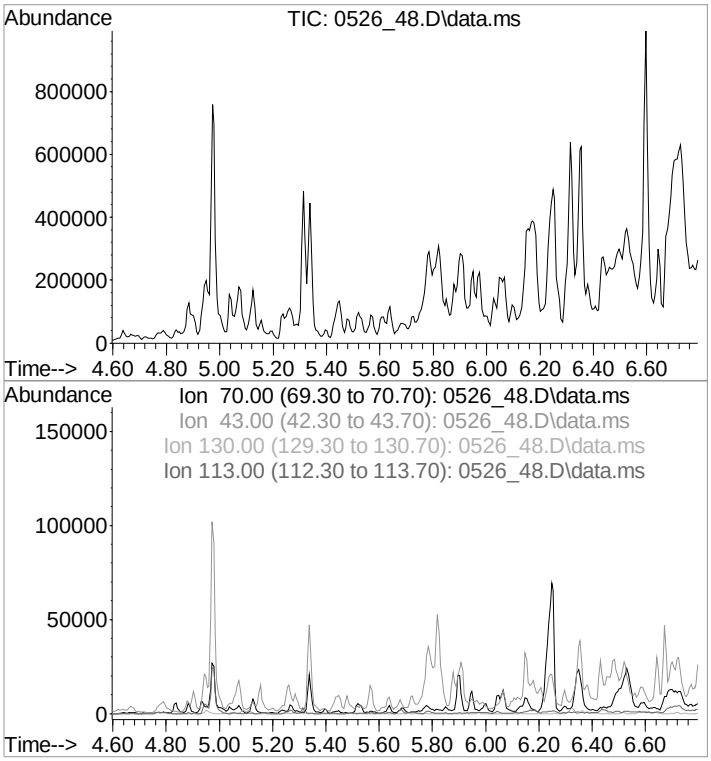


#18
Hexachloroethane
Concen: N.D.
Expected RT: 5.82 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.6
201	80.5
166	51.0

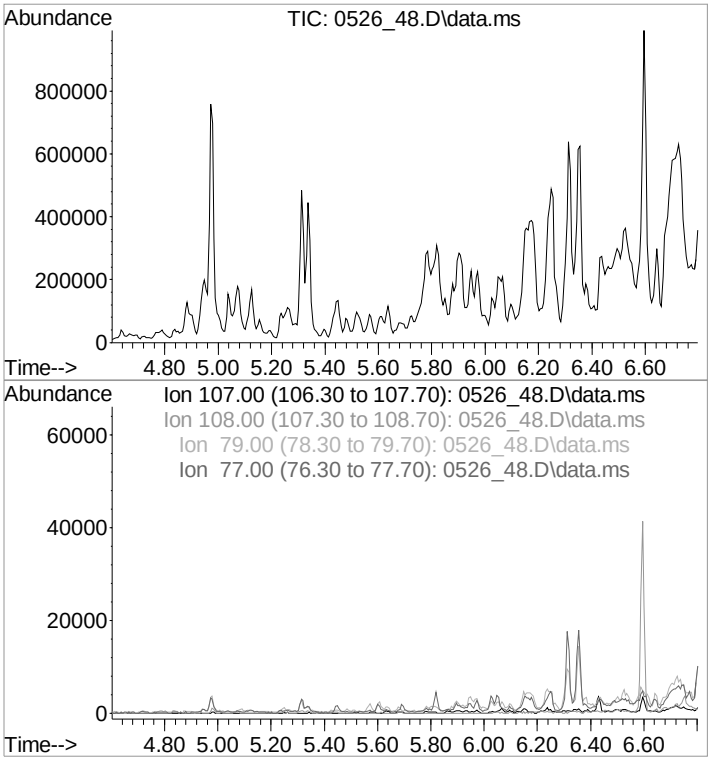


#19
N-Nitrosodi-n-propylamine
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 70

Sig	Exp Ratio
70	100
43	113.6
130	24.0
113	13.1

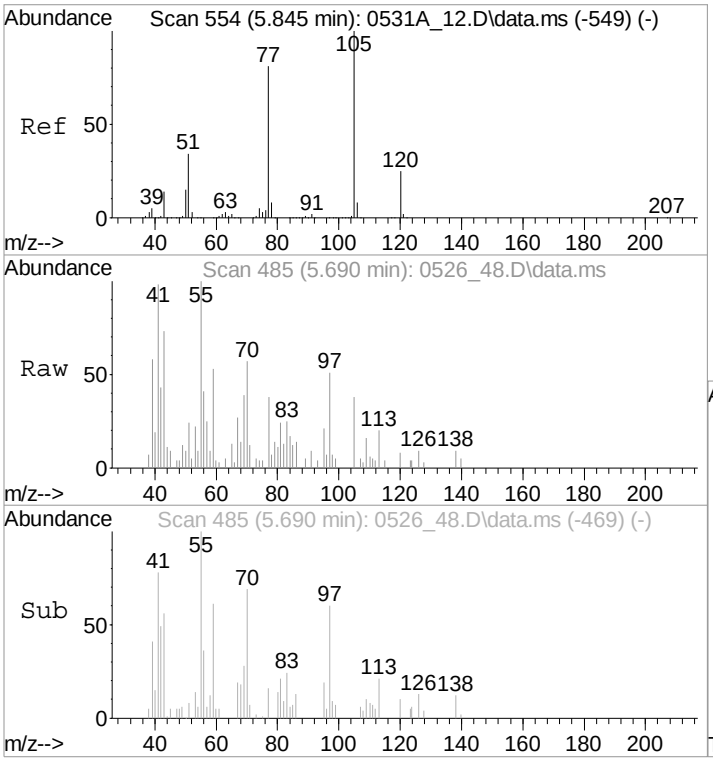


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 107

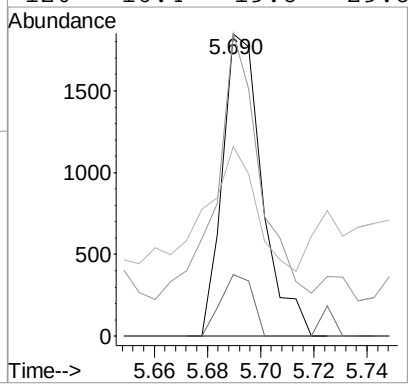
Sig	Exp Ratio
107	100
108	94.4
79	35.8
77	38.2

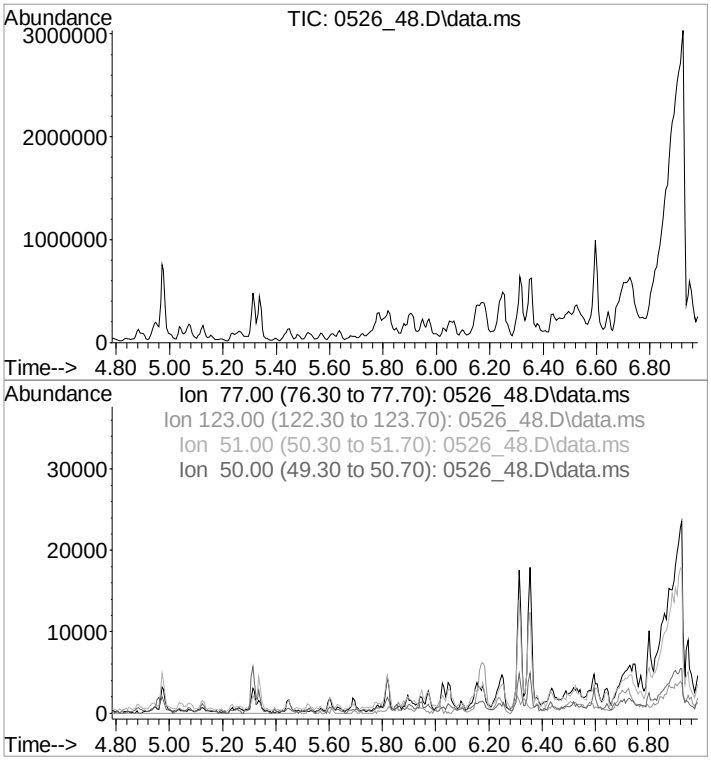


#21
Acetophenone
Concen: 0.5290397 ppb
RT: 5.690 min Scan# 485
Delta R.T. -0.006 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:105 Resp: 1916

Ion	Ratio	Lower	Upper
105	100		
77	102.5	67.3	100.9#
51	52.7	31.0	46.4#
120	16.4	19.8	29.8#



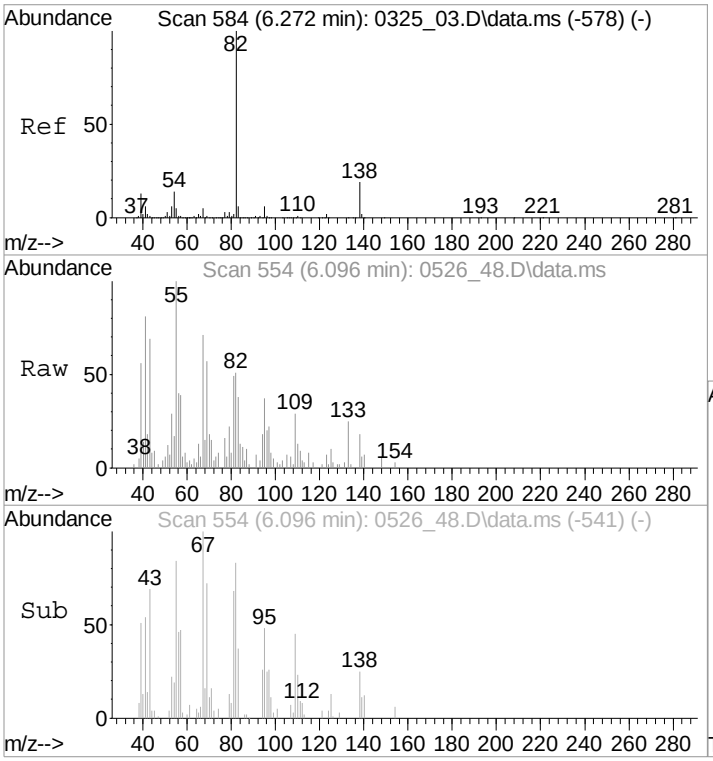


#24
Nitrobenzene
Concen: N.D.
Expected RT: 5.88 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 77

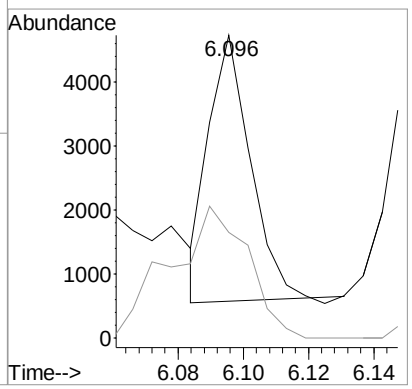
Sig	Exp Ratio
77	100
123	44.1
51	72.6
50	27.3

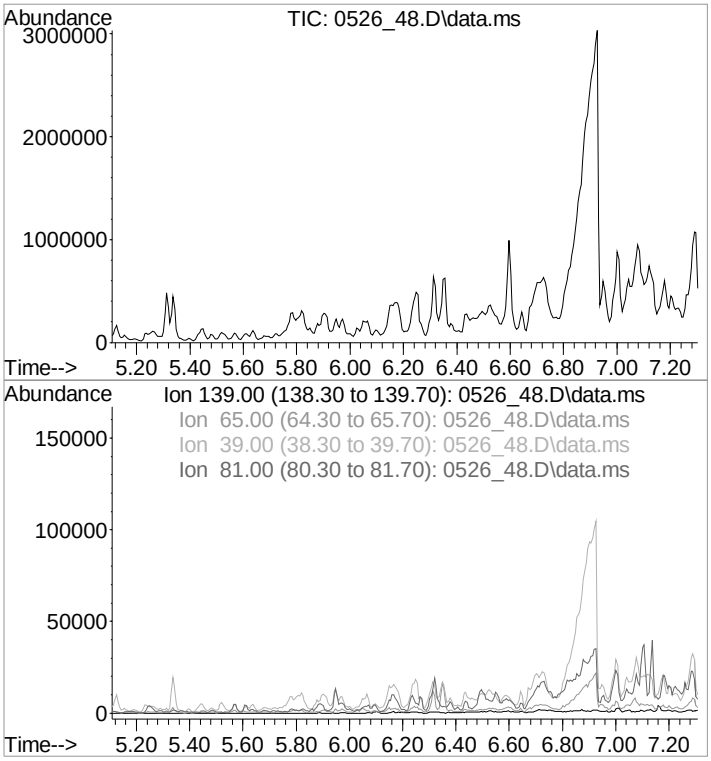


#25
Isophorone
Concen: 0.7153427 ppb m
RT: 6.096 min Scan# 554
Delta R.T. -0.023 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 82 Resp: 3695

Ion	Ratio	Lower	Upper
82	100		
138	34.8	0.0	37.1



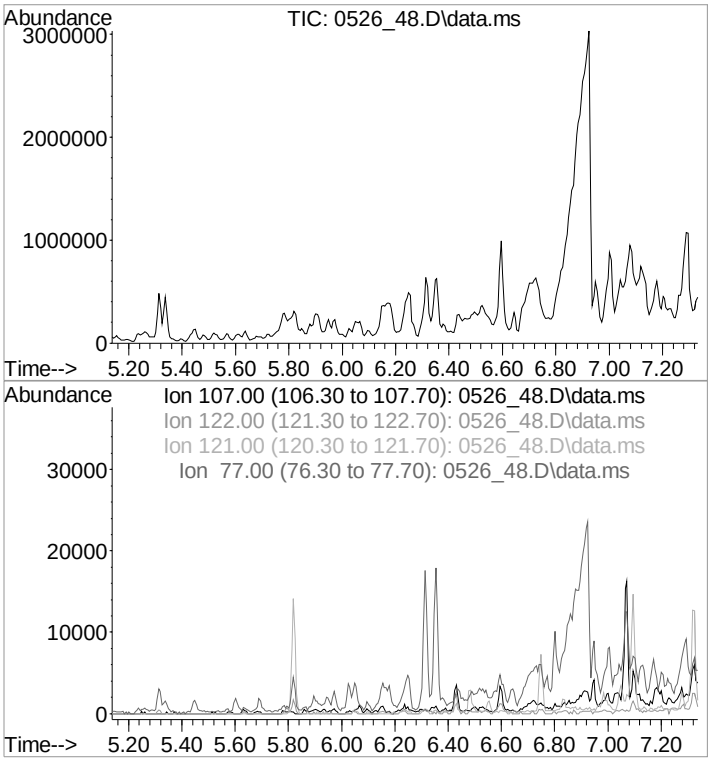


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.21 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	64.3
39	56.7
81	46.6

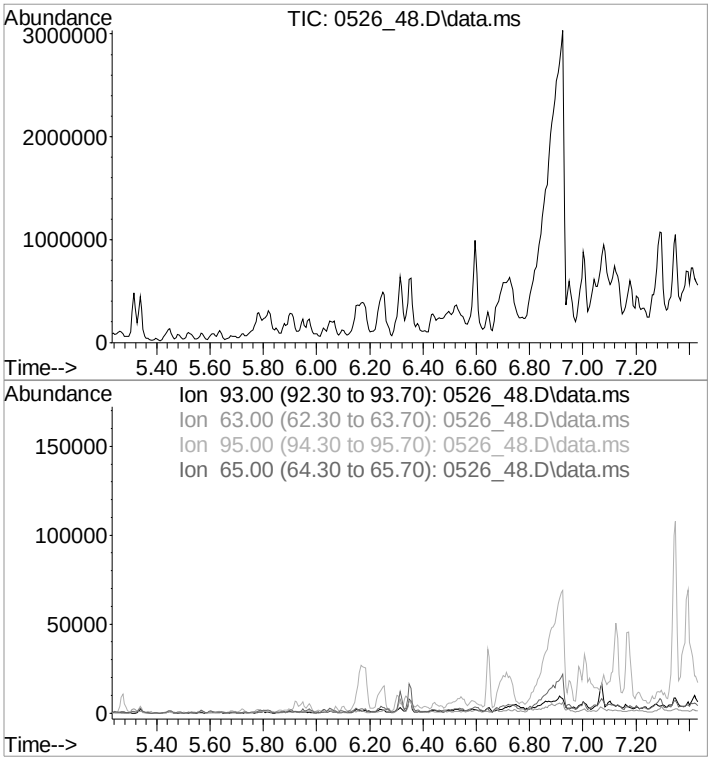


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.24 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
122	80.3
121	47.0
77	32.8

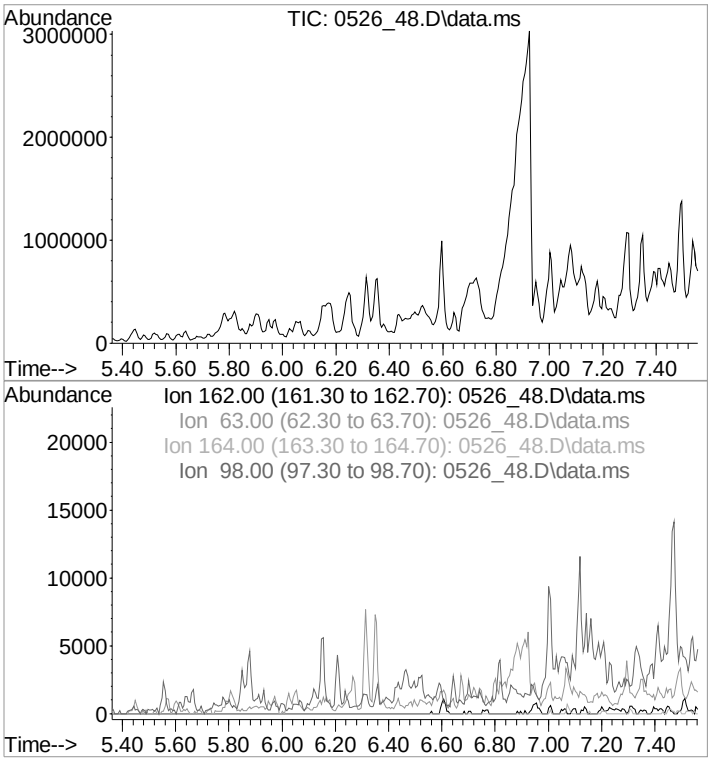


#28
bis(2-Chlorethoxy)methane
Concen: N.D.
Expected RT: 6.33 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 93

Sig	Exp Ratio
93	100
63	85.3
95	32.1
65	24.7

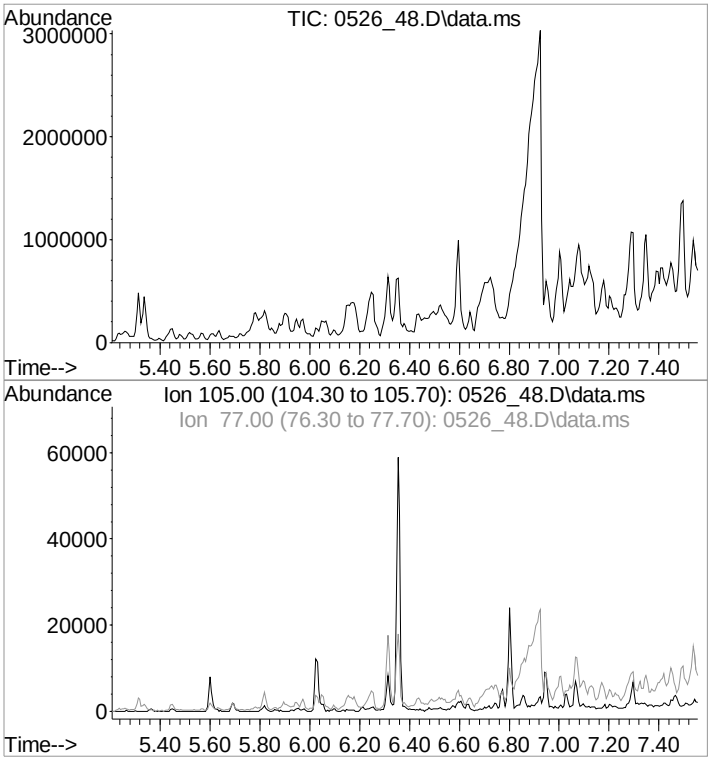


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.46 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	74.9
164	63.5
98	38.1

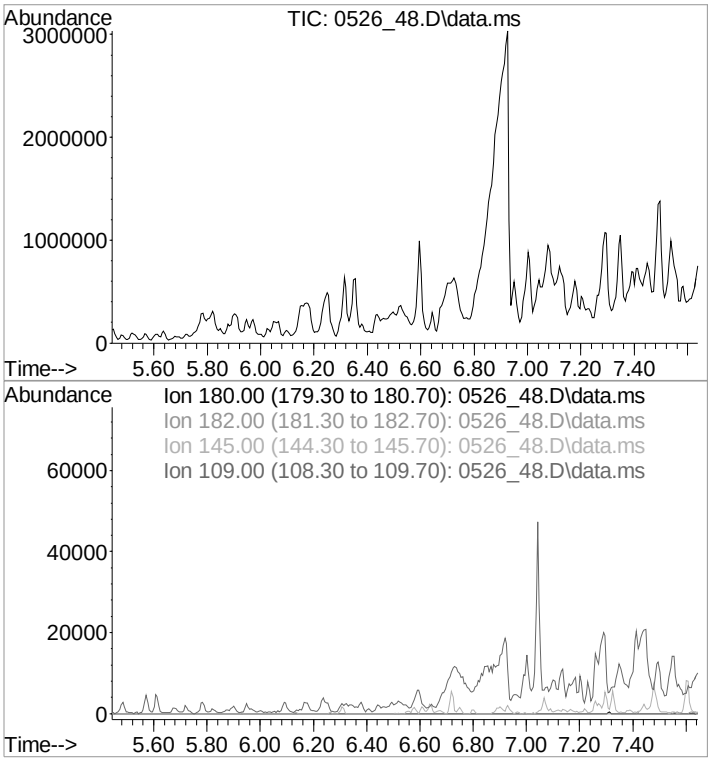


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.31 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	78.2

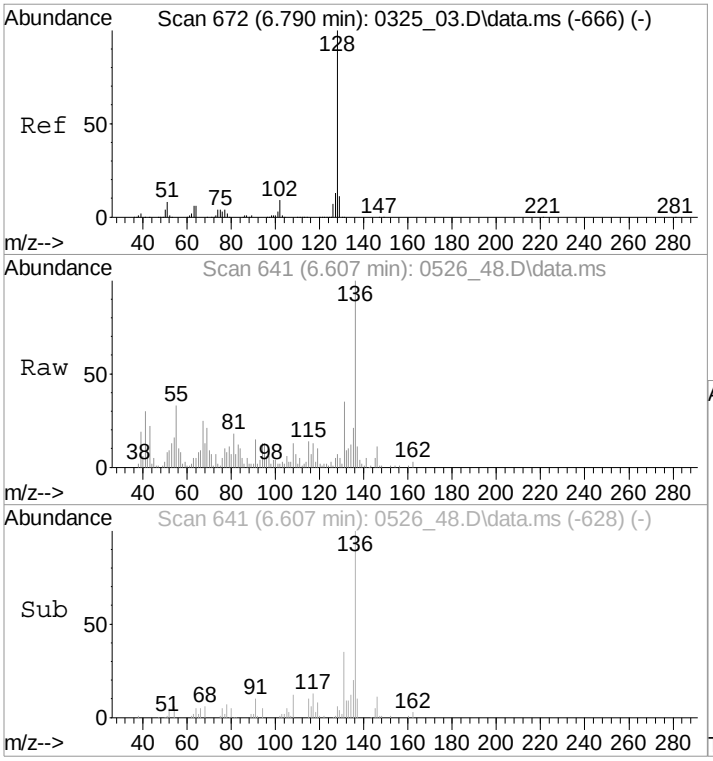


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.54 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 180

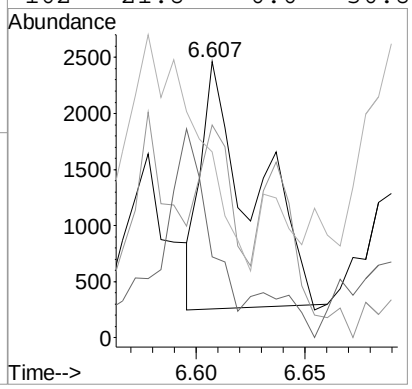
Sig	Exp Ratio
180	100
182	95.0
145	32.2
109	29.7

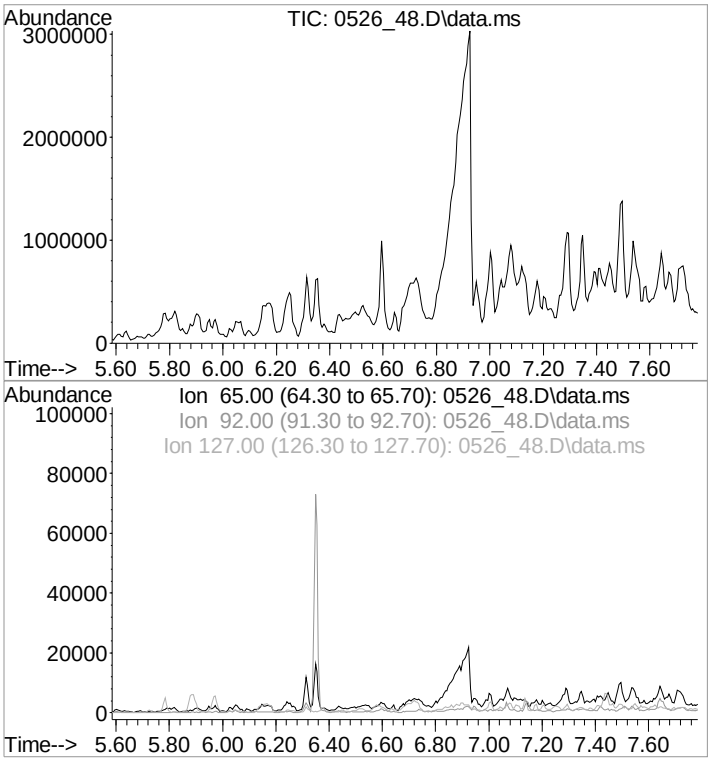


#32
Naphthalene
Concen: 0.4584901 ppb
RT: 6.607 min Scan# 641
Delta R.T. -0.023 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:128 Resp: 3638

Ion	Ratio	Lower	Upper
128	100		
129	79.4	0.0	31.4#
127	34.3	0.0	32.6#
102	21.8	0.0	30.8



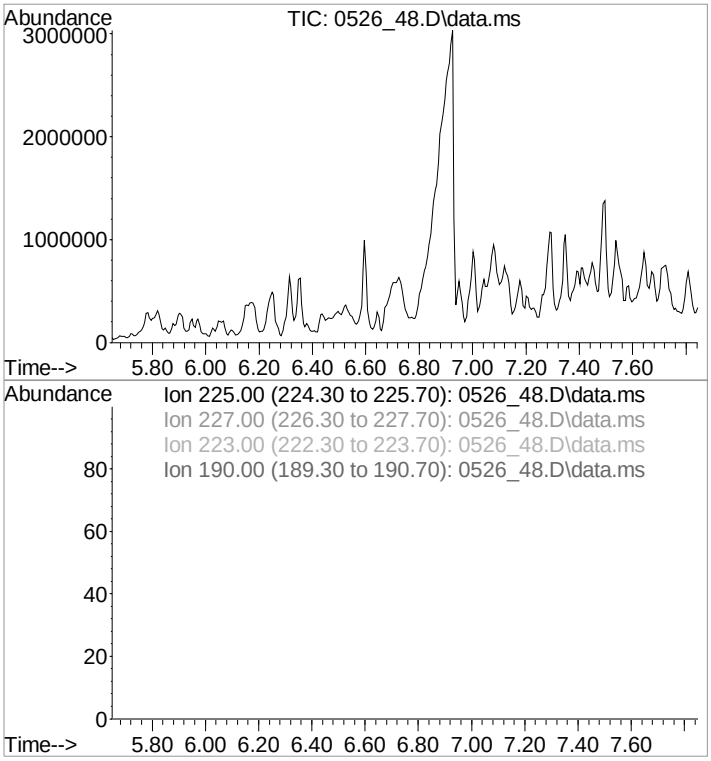


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.68 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	49.6
127	268.8

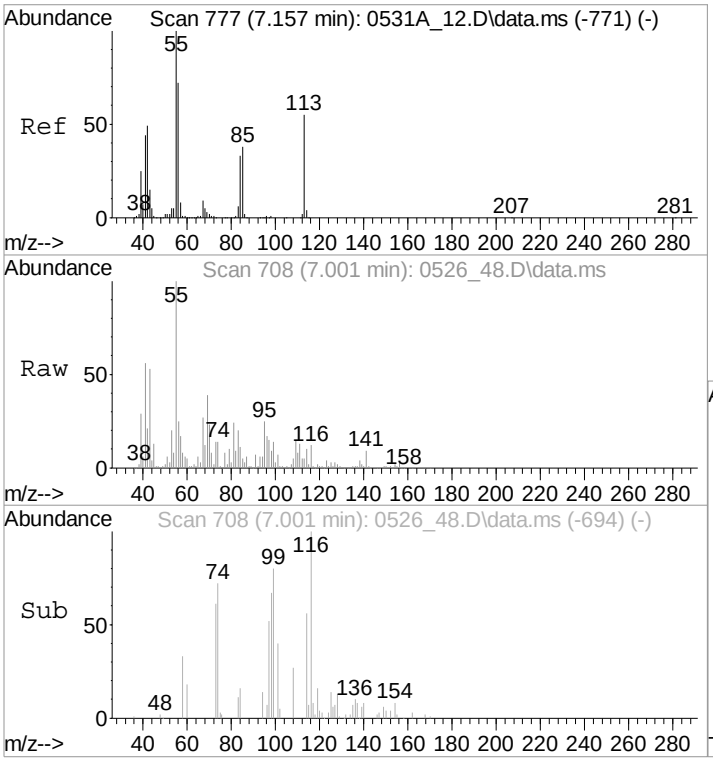


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.75 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 225

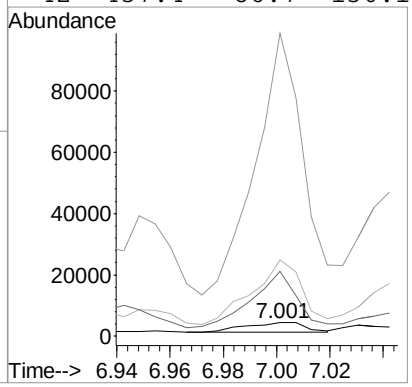
Sig	Exp Ratio
225	100
227	64.9
223	62.6
190	50.1

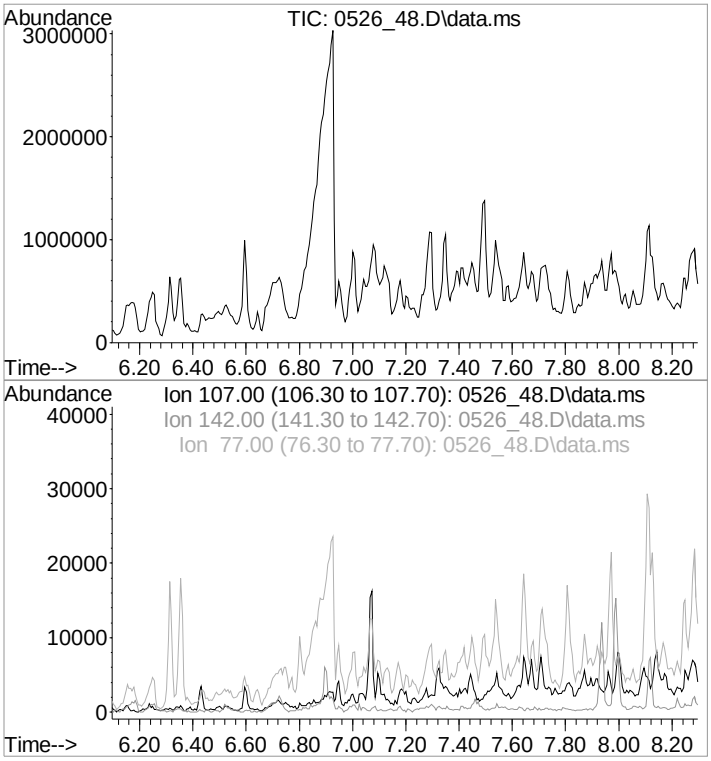


#35
Caprolactam
Concen: 6.3972790 ppb
RT: 7.001 min Scan# 708
Delta R.T. -0.018 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:113 Resp: 5035

Ion	Ratio	Lower	Upper
113	100		
55	2138.6	182.6	273.8#
56	537.5	138.4	207.6#
42	437.4	86.7	130.1#



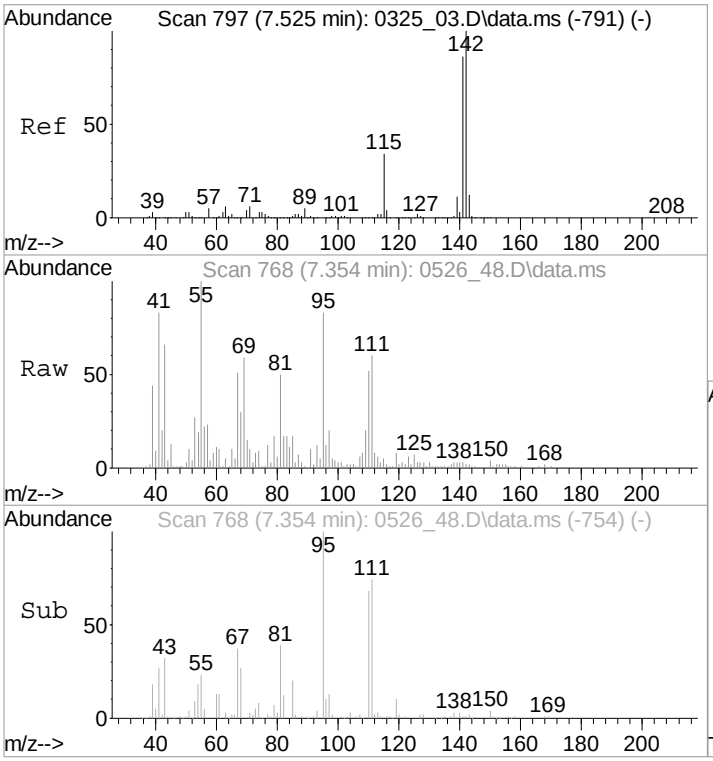


#36
4-Chloro-3-methylphenol
Concen: N.D.
Expected RT: 7.20 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 107

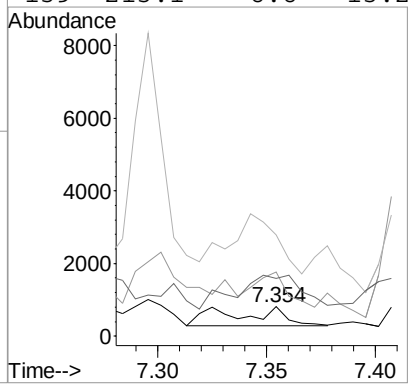
Sig	Exp Ratio
107	100
142	76.7
77	55.9

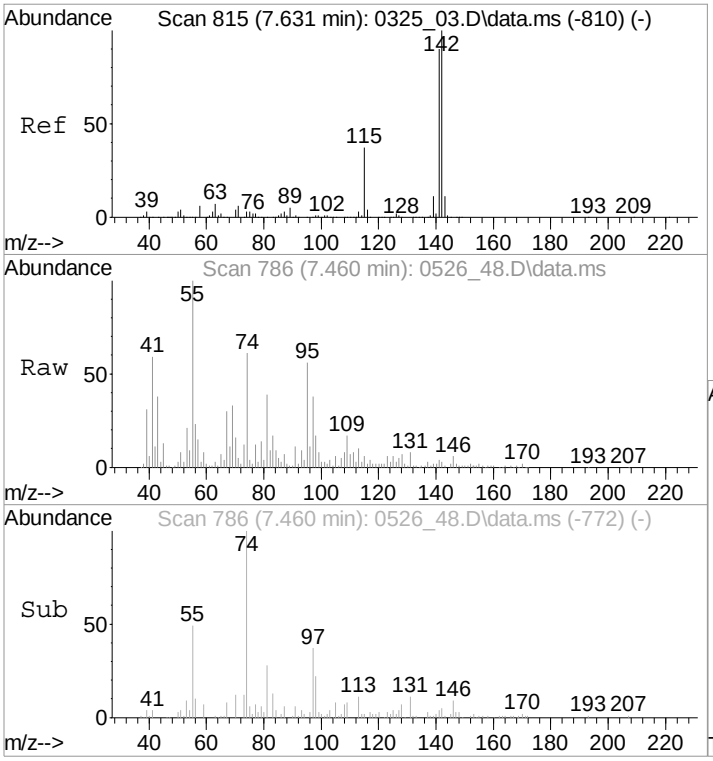


#37
2-Methylnaphthalene
Concen: 0.1725718 ppb
RT: 7.354 min Scan# 768
Delta R.T. -0.018 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:142 Resp: 959

Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.7	104.5#
115	0.0	33.4	50.0#
139	213.1	8.8	13.2#

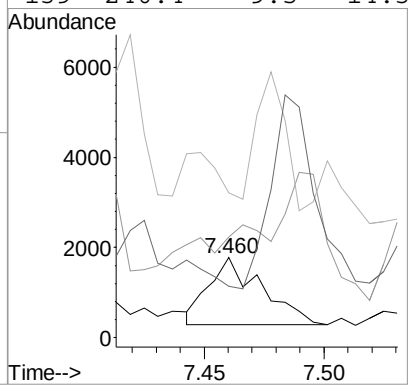


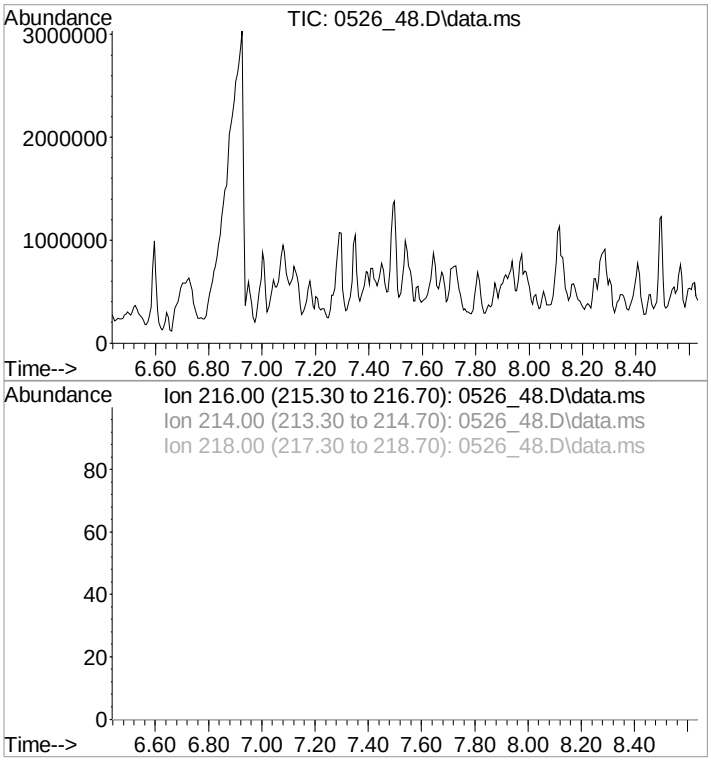


#38
1-Methylnaphthalene
Concen: 0.4698006 ppb
RT: 7.460 min Scan# 786
Delta R.T. -0.018 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:142 Resp: 2307

Ion	Ratio	Lower	Upper
142	100		
141	0.0	72.1	108.1#
115	185.8	35.0	52.6#
139	240.4	9.5	14.3#



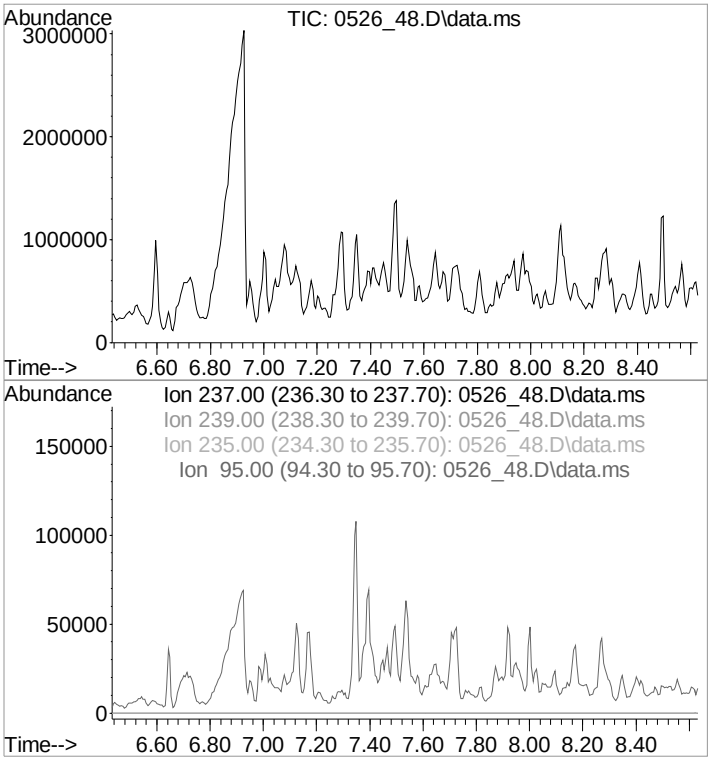


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.54 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	80.5
218	48.2

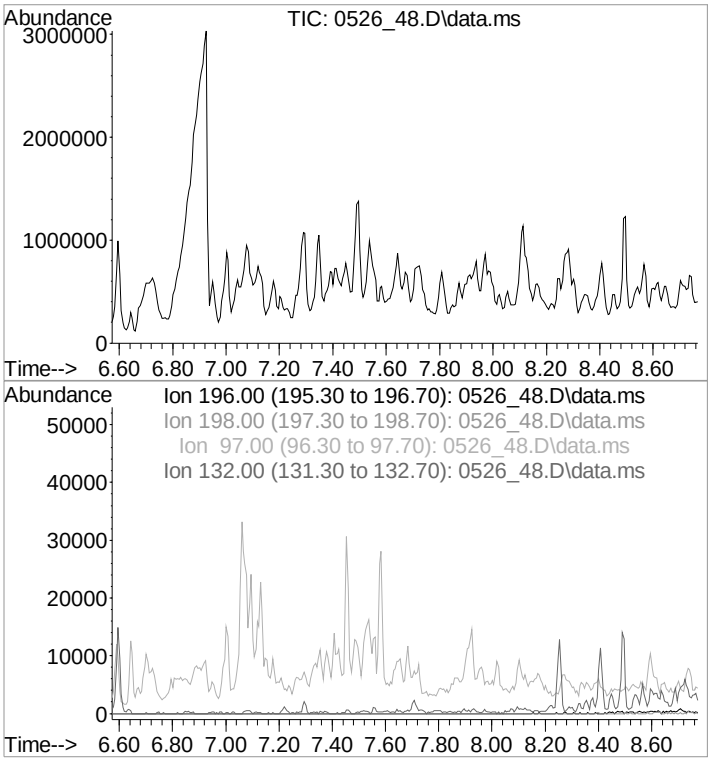


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.53 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	62.8
235	63.7
95	27.6

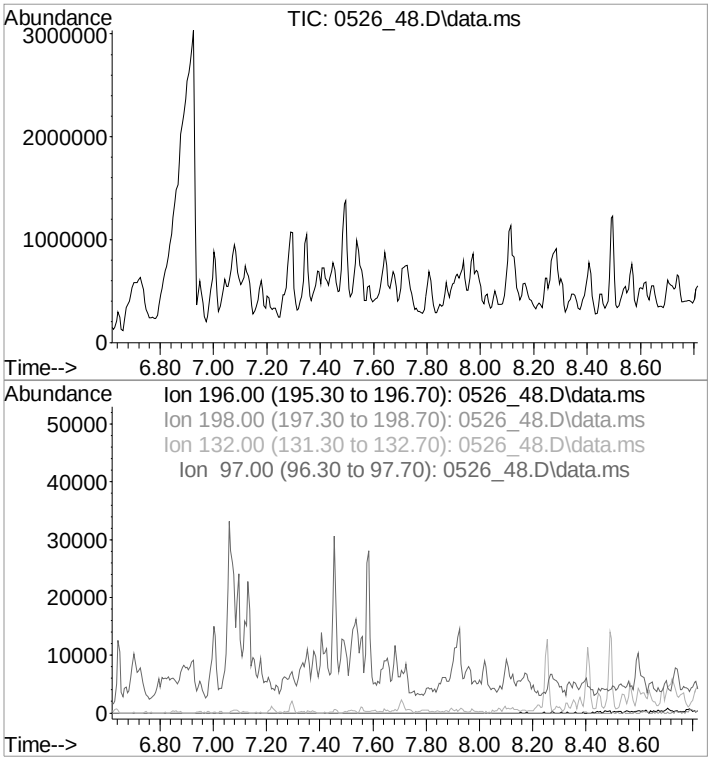


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.67 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	97.6
97	68.6
132	46.8

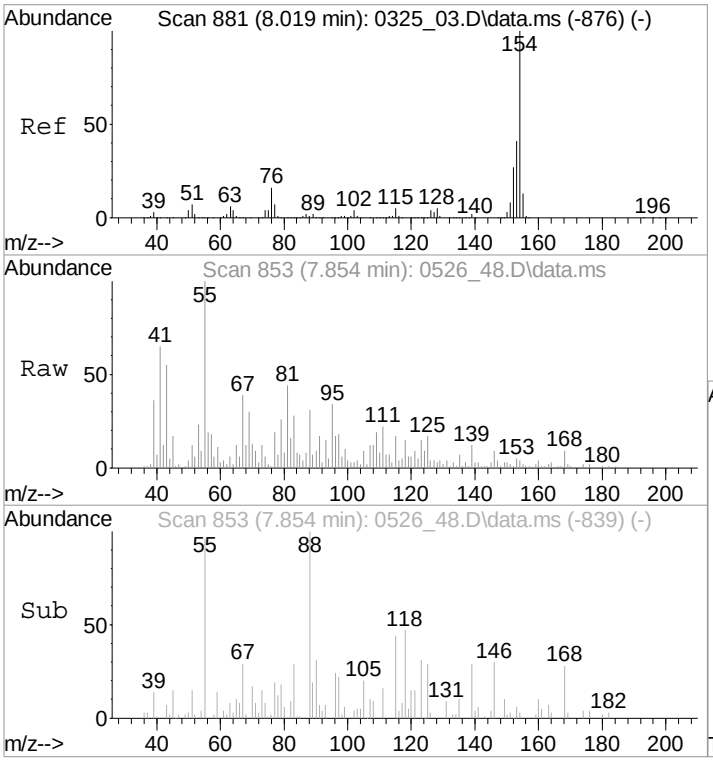


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 196

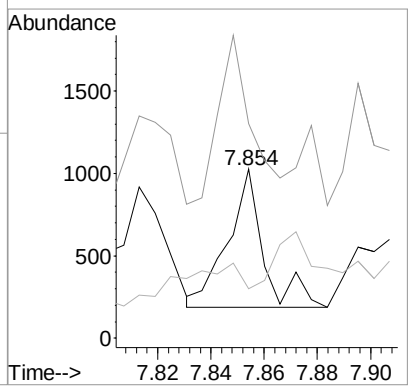
Sig	Exp Ratio
196	100
198	96.6
132	31.4
97	66.9

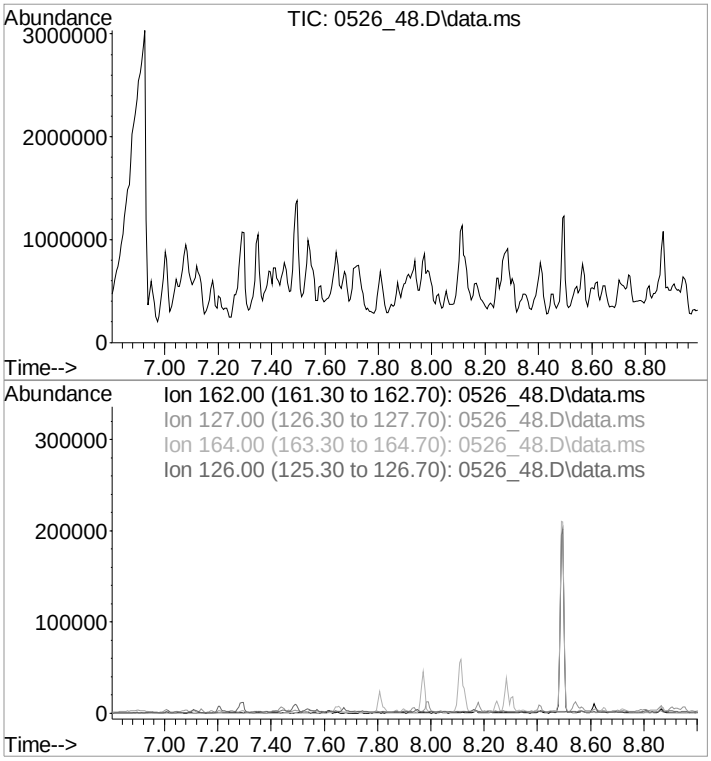


#45
Biphenyl
Concen: Below Cal
RT: 7.854 min Scan# 853
Delta R.T. -0.018 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:154 Resp: 779

Ion	Ratio	Lower	Upper
154	100		
153	172.1	32.0	48.0#
152	55.6	22.0	33.0#



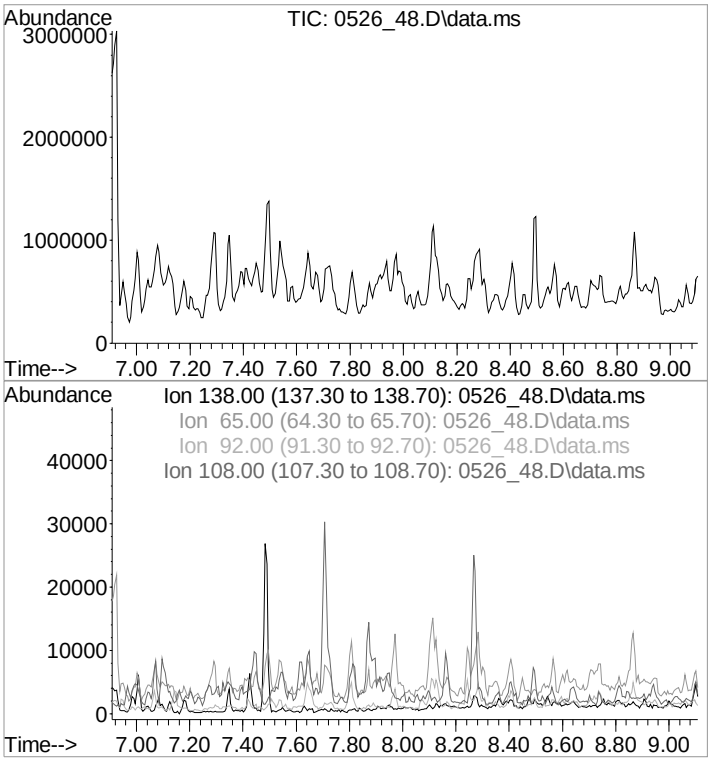


#46
2-Chloronaphthalene
Concen: N.D.
Expected RT: 7.90 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
127	39.1
164	32.7
126	19.9

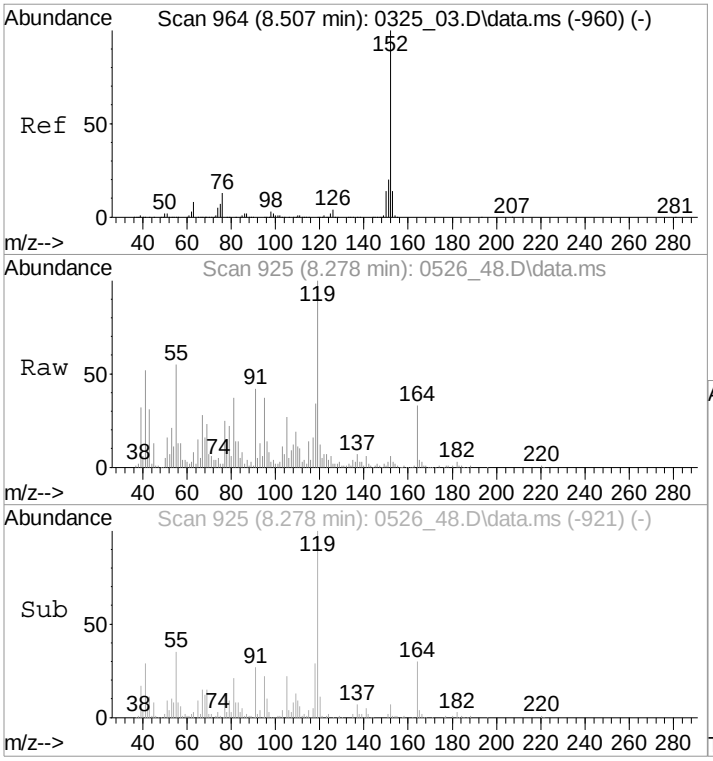


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.01 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 138

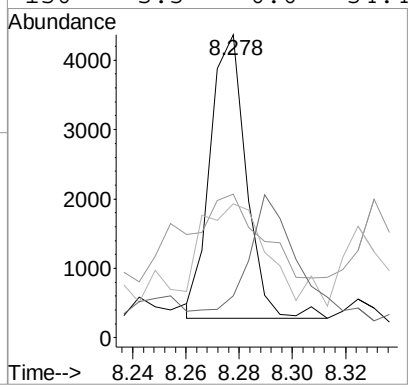
Sig	Exp Ratio
138	100
65	111.6
92	66.3
108	22.6

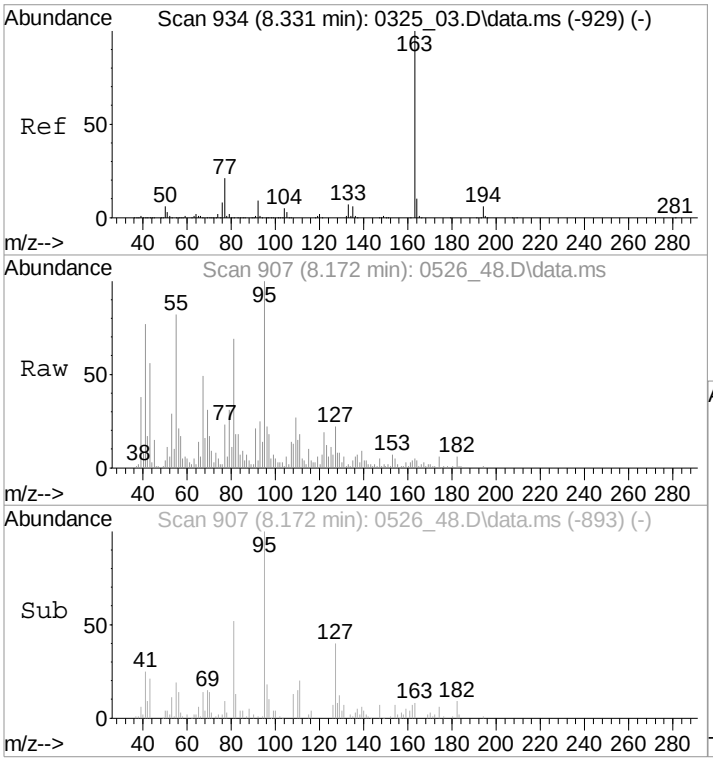


#48
Acenaphthylene
Concen: 0.4265551 ppb
RT: 8.278 min Scan# 925
Delta R.T. -0.076 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:152 Resp: 3874

Ion	Ratio	Lower	Upper
152	100		
153	29.4	0.0	33.3
151	35.9	0.0	39.9
150	5.3	0.0	34.4

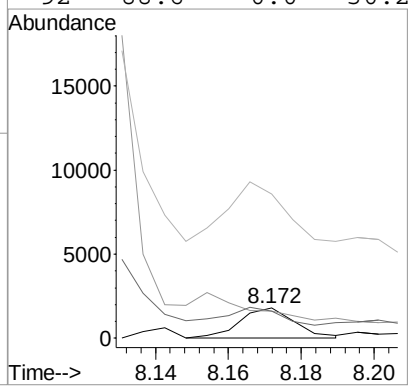


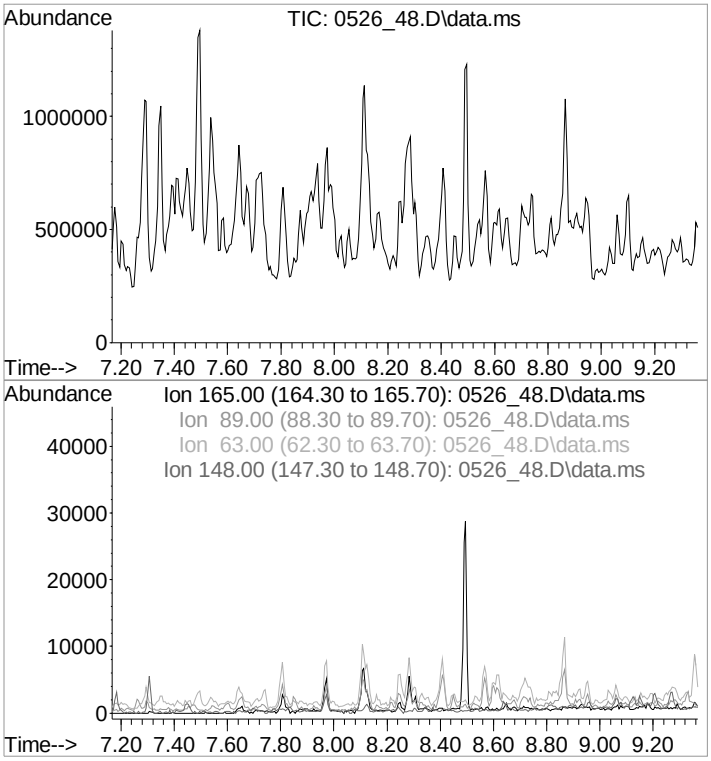


#49
Dimethyl phthalate
Concen: 0.2825012 ppb m
RT: 8.172 min Scan# 907
Delta R.T. -0.018 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:163 Resp: 1886

Ion	Ratio	Lower	Upper
163	100		
164	89.7	0.0	29.6#
77	477.0	0.9	40.9#
92	88.6	0.0	30.2#



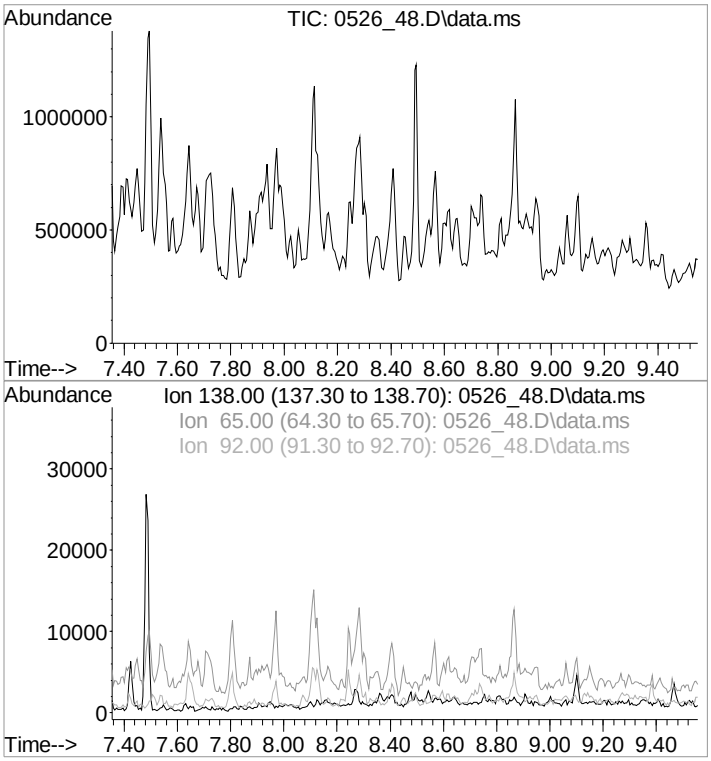


#50
2,6-Dinitrotoluene
Concen: N.D.
Expected RT: 8.27 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	61.1
63	69.0
148	20.7

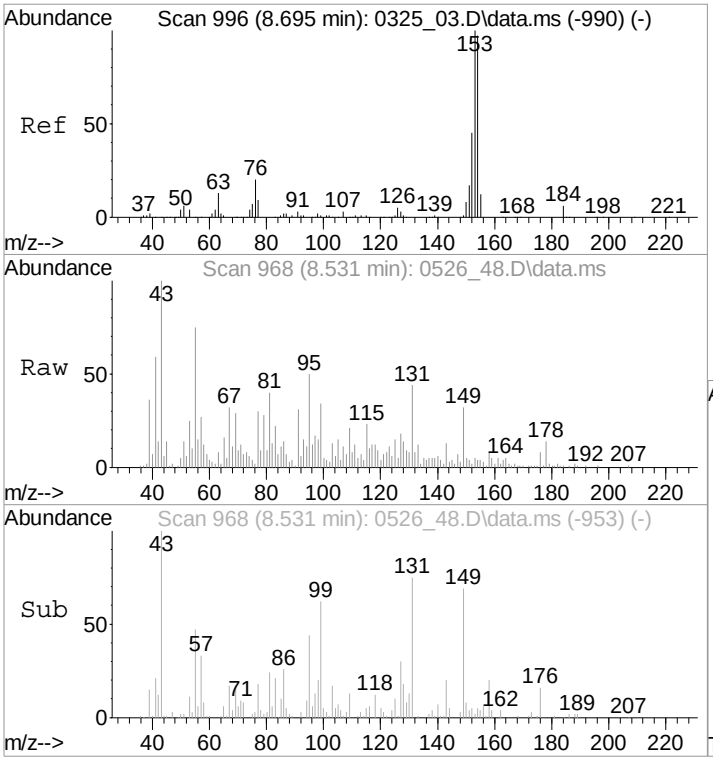


#51
3-Nitroaniline
Concen: N.D.
Expected RT: 8.45 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 138

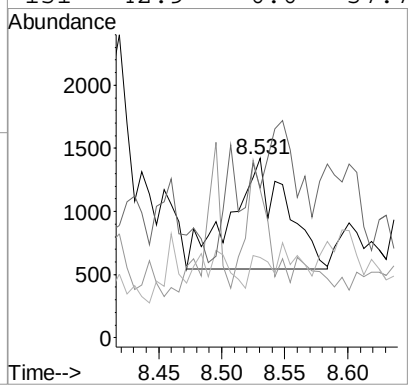
Sig	Exp Ratio
138	100
65	169.6
92	124.6

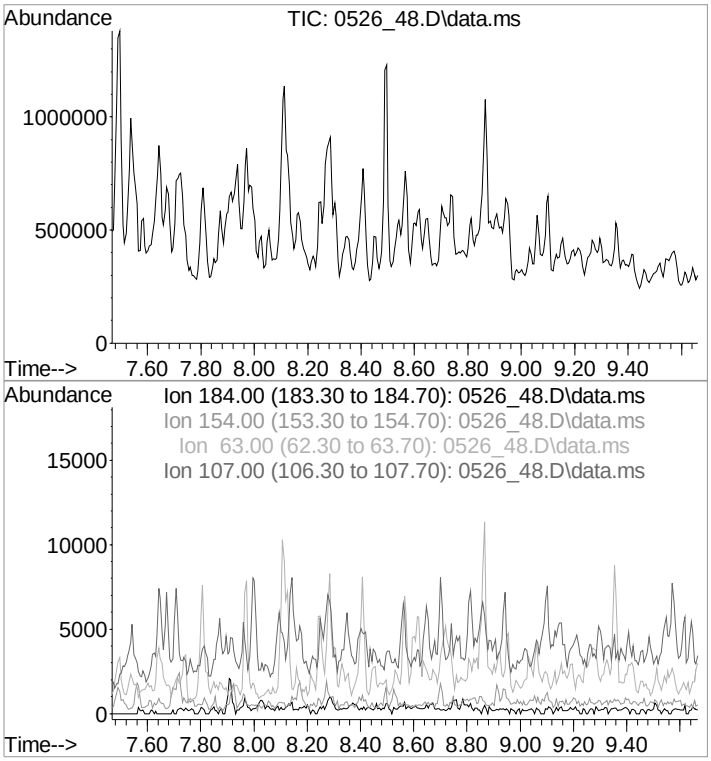


#52
Acenaphthene
Concen: 0.4367890 ppb
RT: 8.531 min Scan# 968
Delta R.T. -0.012 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:153 Resp: 2664

Ion	Ratio	Lower	Upper
153	100		
154	80.5	72.6	112.6
152	23.3	26.9	66.9#
151	42.9	0.0	37.7#



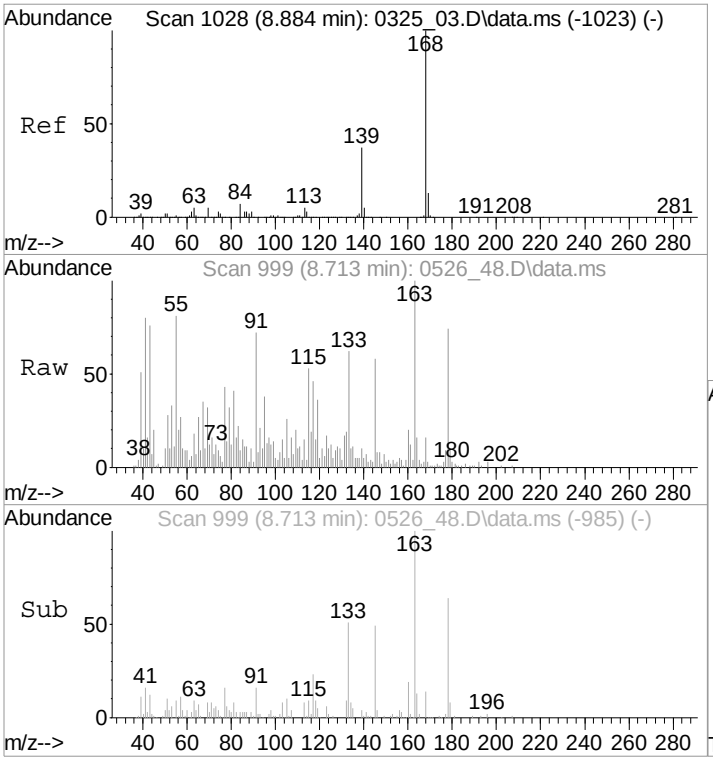


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.56 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 184

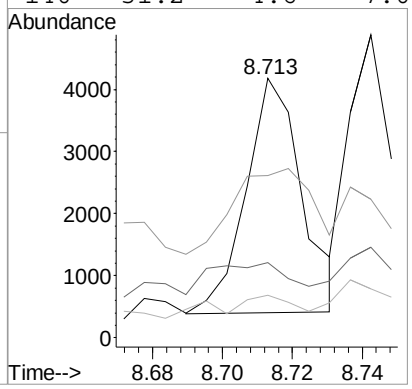
Sig	Exp Ratio
184	100
154	67.1
63	65.9
107	45.9

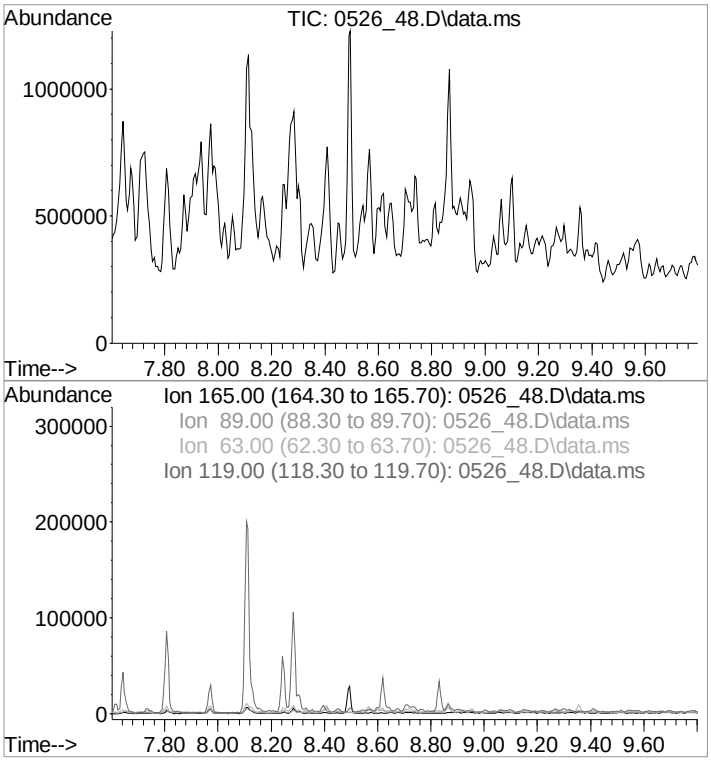


#54
Dibenzofuran
Concen: 0.4916706 ppb m
RT: 8.713 min Scan# 999
Delta R.T. -0.018 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:168 Resp: 4218

Ion	Ratio	Lower	Upper
168	100		
139	73.9	32.9	49.3#
169	12.7	10.5	15.7
140	31.2	4.6	7.0#



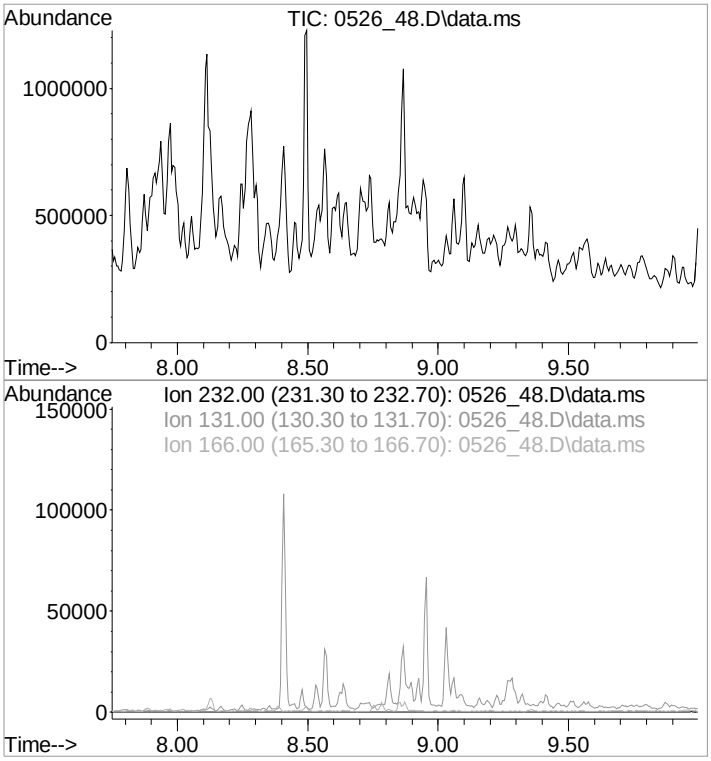


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.70 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	80.5
63	58.2
119	21.9

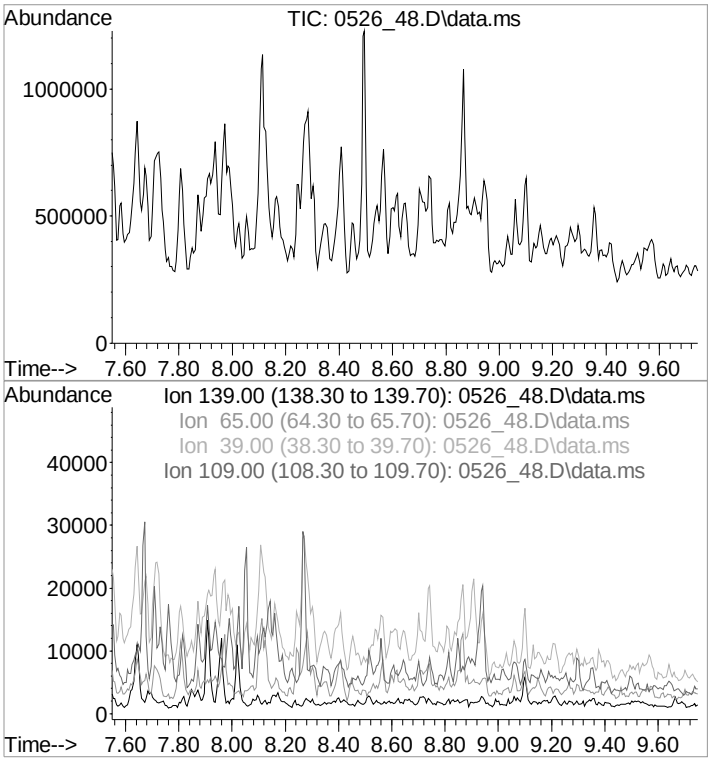


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 8.85 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	56.7
166	36.2

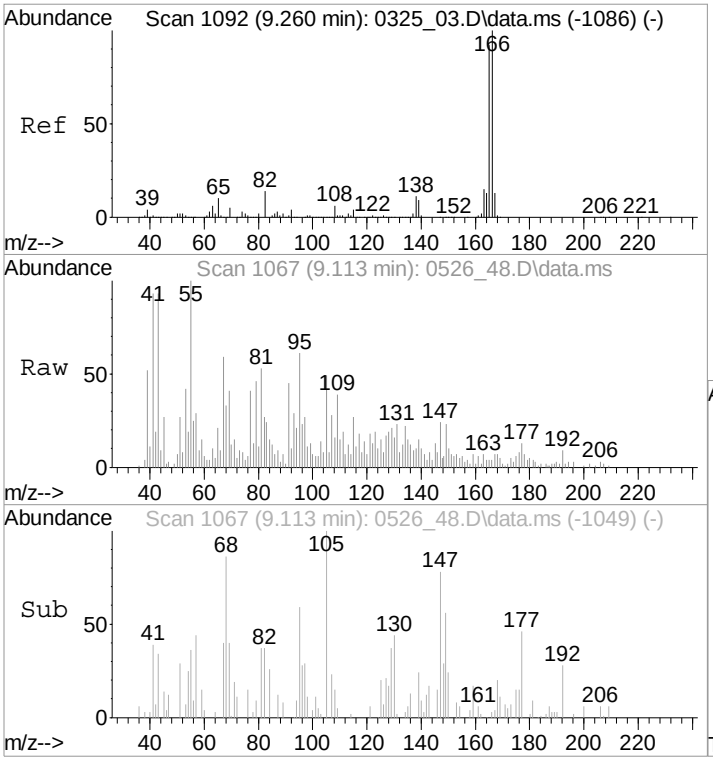


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.65 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 139

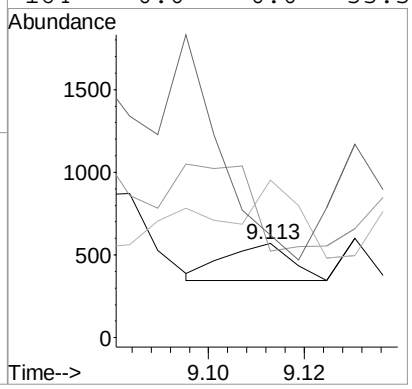
Sig	Exp Ratio
139	100
65	116.1
39	77.2
109	84.3

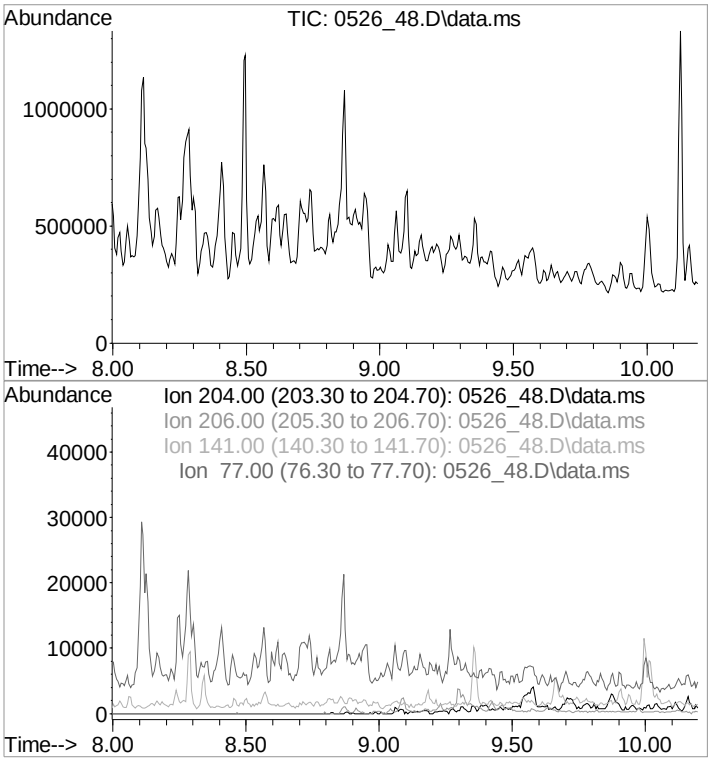


#58
Fluorene
Concen: Below Cal
RT: 9.113 min Scan# 1067
Delta R.T. 0.006 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:166 Resp: 216

Ion	Ratio	Lower	Upper
166	100		
165	0.0	75.7	115.7#
167	211.2	0.0	33.2#
164	0.0	0.0	33.5



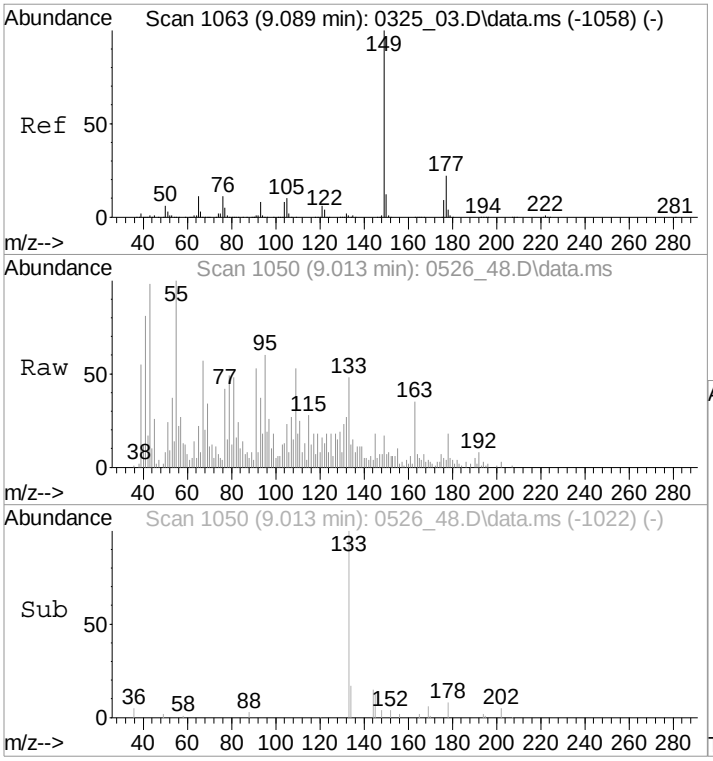


#59
4-Chlorophenyl-phenylether
Concen: N.D.
Expected RT: 9.10 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 204

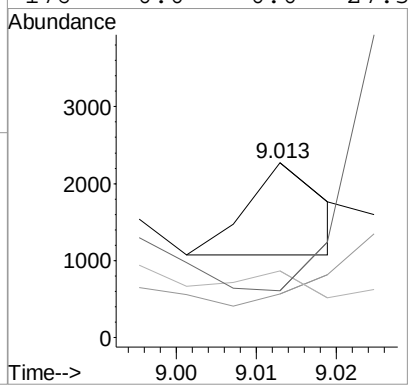
Sig	Exp Ratio
204	100
206	32.5
141	67.2
77	47.0

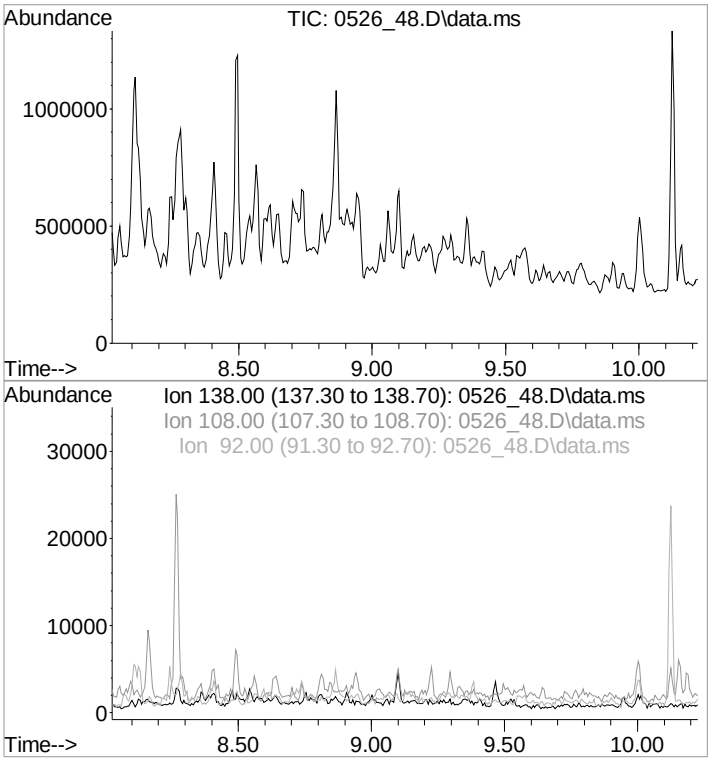


#60
Diethyl phthalate
Concen: Below Cal
RT: 9.013 min Scan# 1050
Delta R.T. 0.065 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:149 Resp: 806

Ion	Ratio	Lower	Upper
149	100		
177	0.8	0.0	39.8
150	29.4	0.0	32.1
176	0.0	0.0	27.3



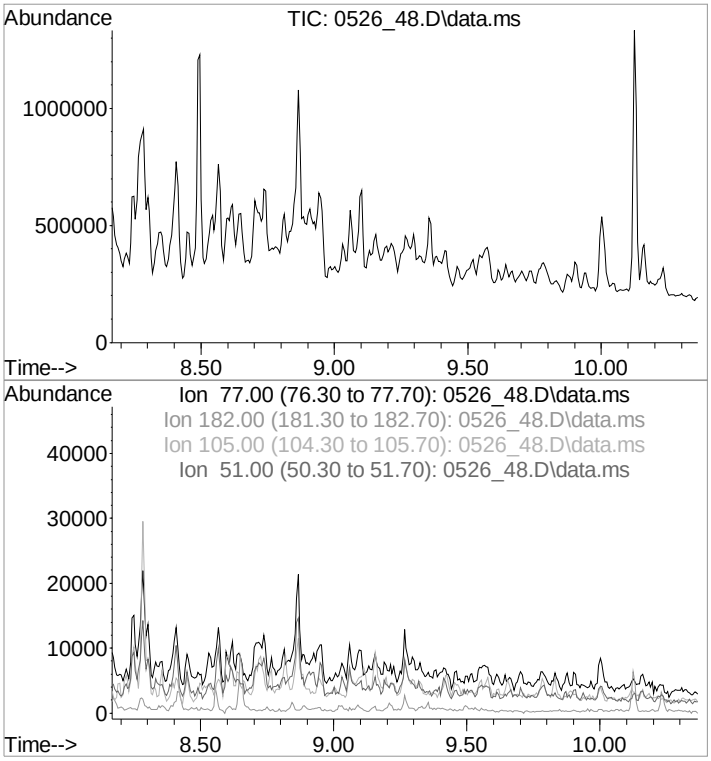


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.12 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
108	81.6
92	51.9

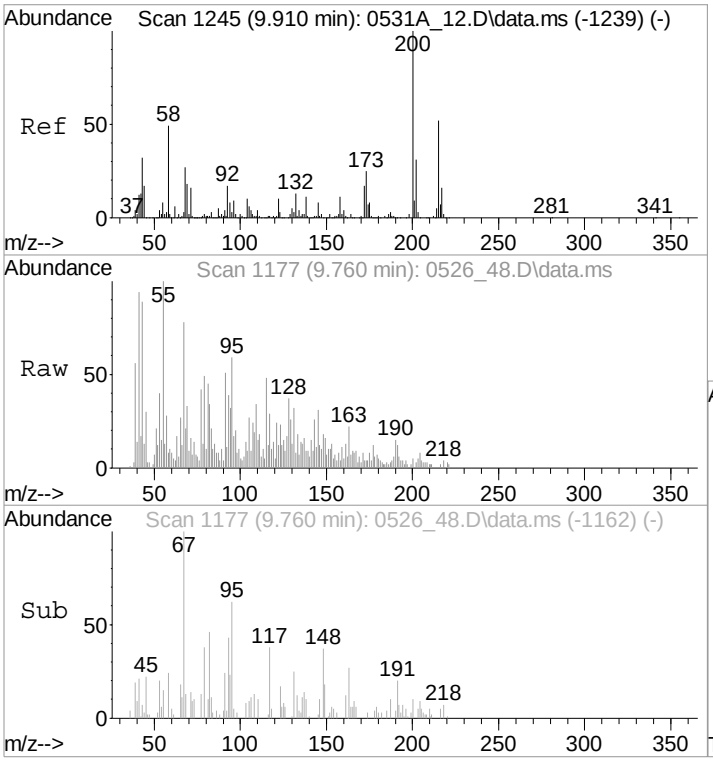


#62
Azobenzene
Concen: N.D.
Expected RT: 9.27 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 77

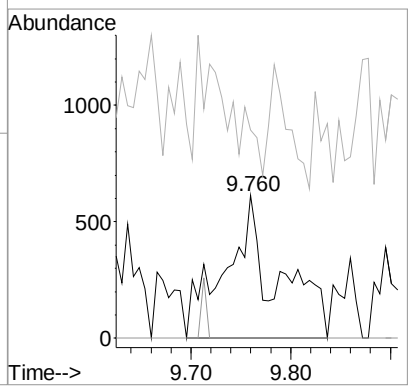
Sig	Exp Ratio
77	100
182	23.3
105	15.9
51	39.0

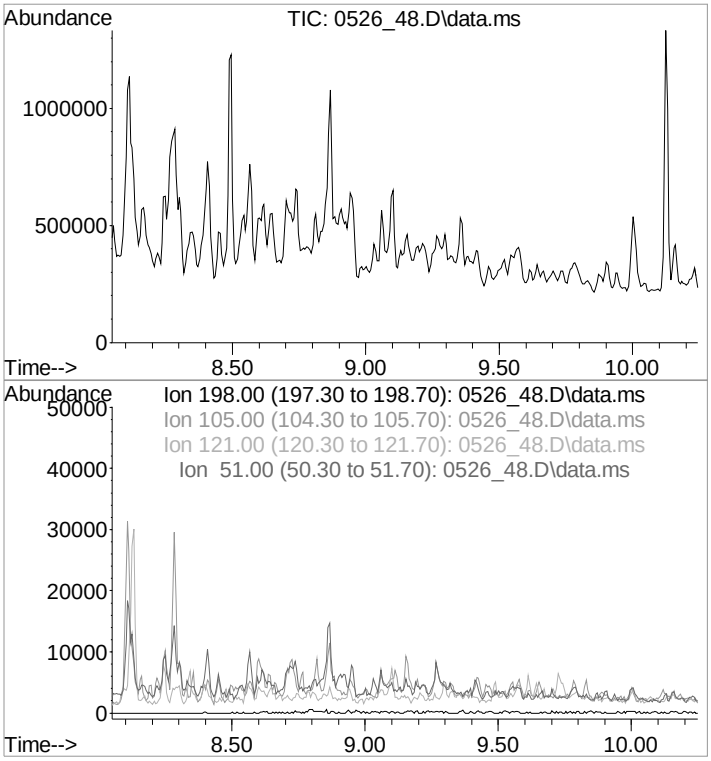


#63
Atrazine
Concen: 1.2550663 ppb
RT: 9.760 min Scan# 1177
Delta R.T. -0.012 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:200 Resp: 2224

Ion	Ratio	Lower	Upper
200	100		
215	0.0	37.7	56.5#
58	31.0	64.2	96.4#



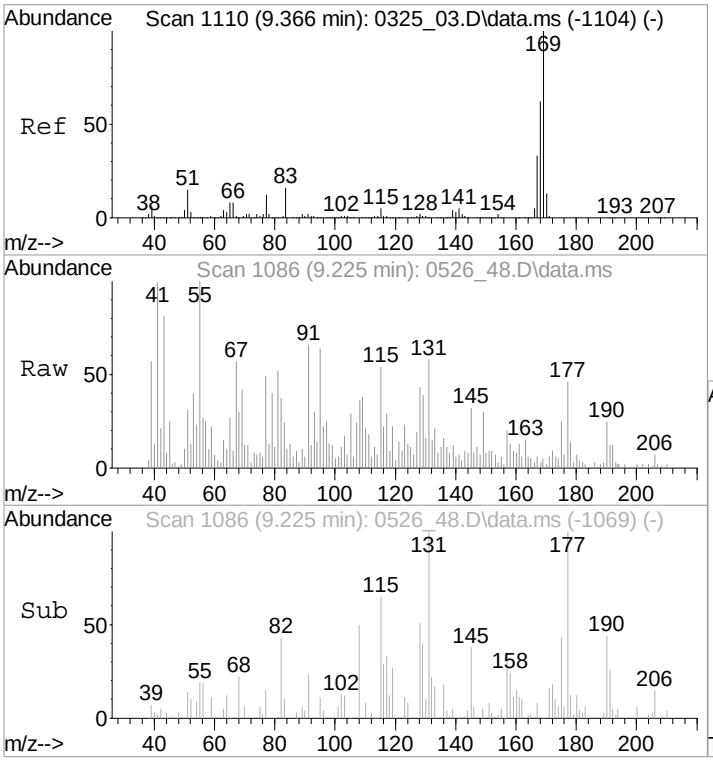


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.15 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 198

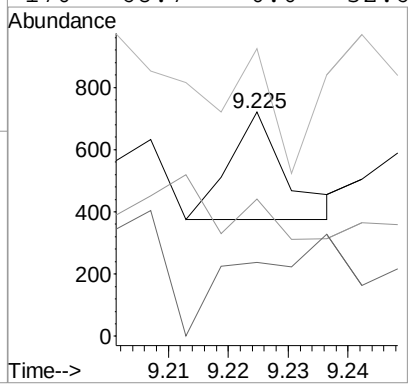
Sig	Exp Ratio
198	100
105	45.7
121	44.0
51	53.3

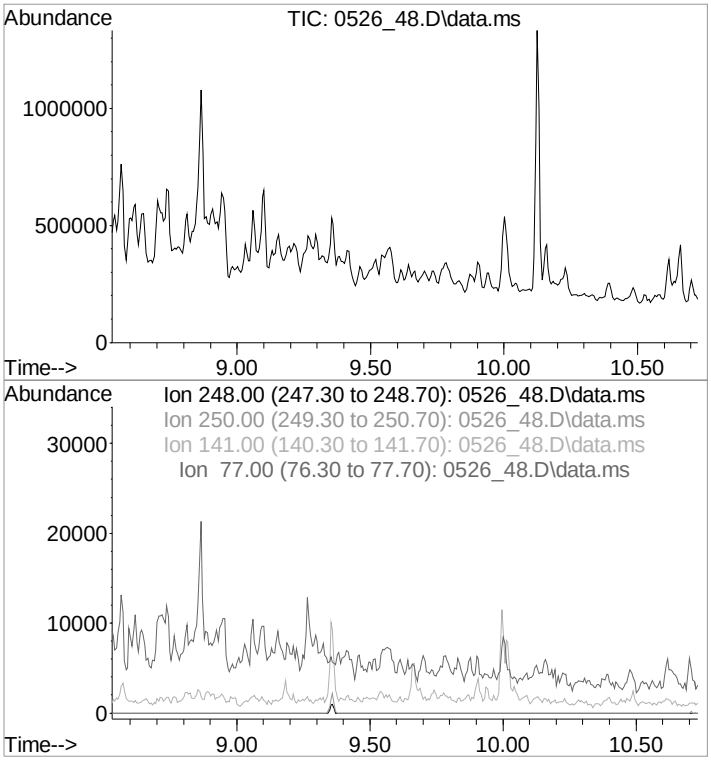


#66
N-Nitrosodiphenylamine
Concen: Below Cal
RT: 9.225 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:169 Resp: 231

Ion	Ratio	Lower	Upper
169	100		
168	36.8	43.6	83.6#
167	31.6	14.5	54.5
170	68.7	0.0	32.6#



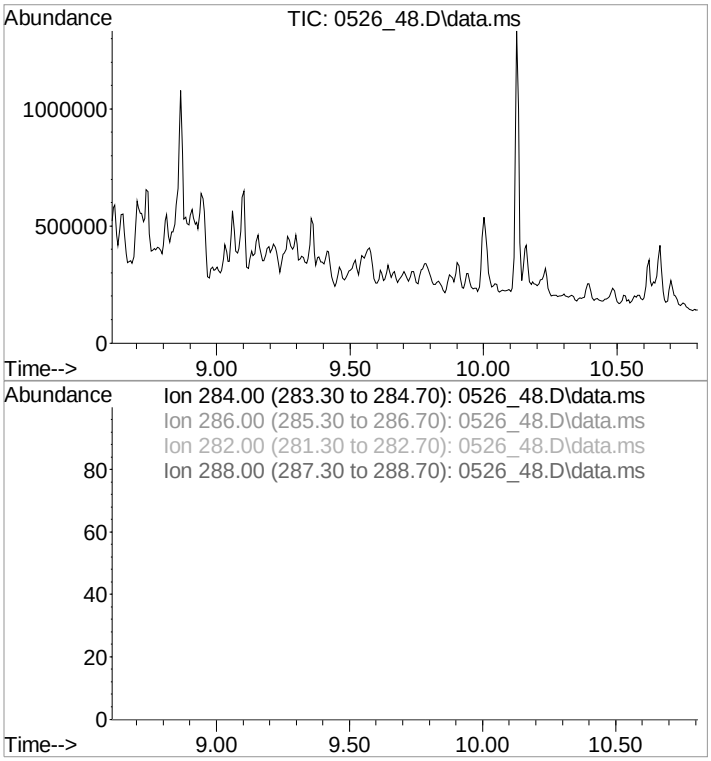


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.63 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	96.0
141	100.7
77	88.4

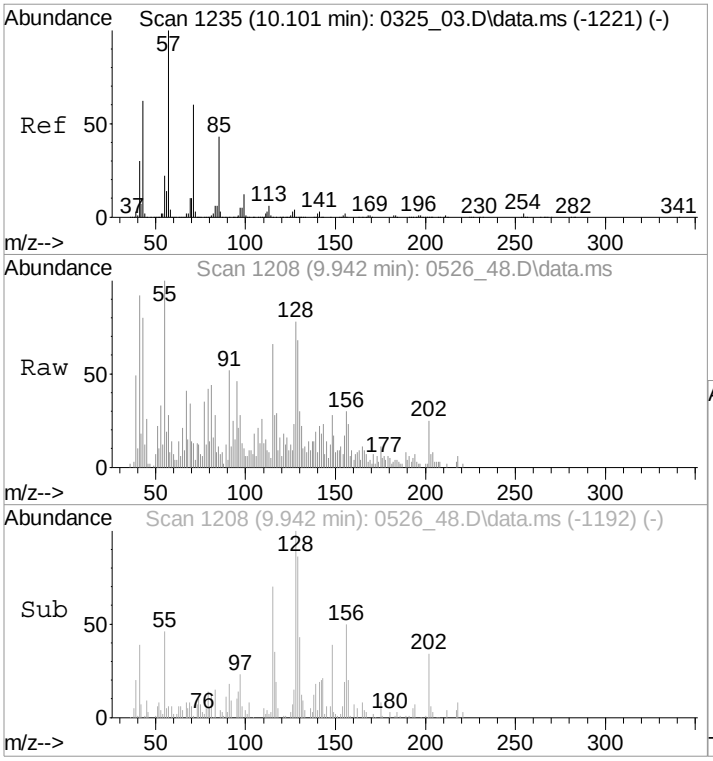


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.71 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 284

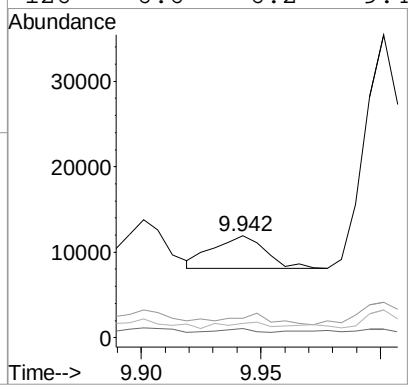
Sig	Exp Ratio
284	100
286	81.5
282	53.0
288	33.1

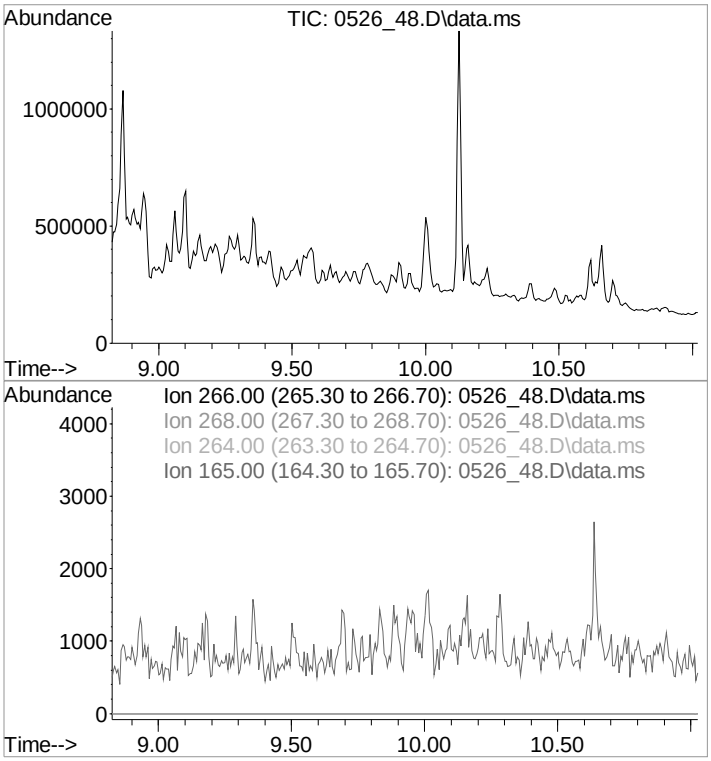


#70
n-octadecane
Concen: 3.2664178 ppb
RT: 9.942 min Scan# 1208
Delta R.T. -0.006 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 55 Resp: 5898

Ion	Ratio	Lower	Upper
55	100		
56	0.0	50.4	75.6#
70	26.9	25.2	37.8
126	6.6	6.2	9.4



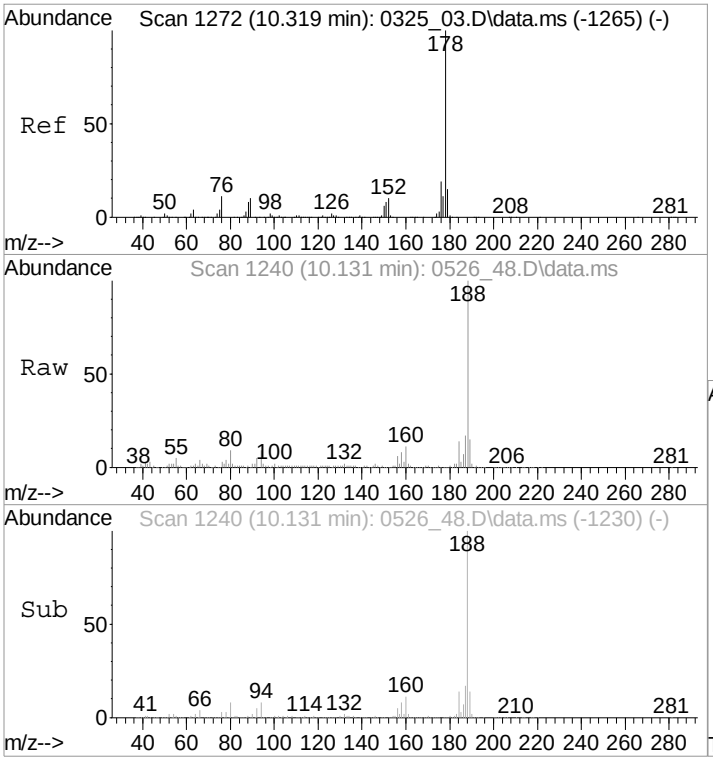


#71
Pentachlorophenol
Concen: N.D.
Expected RT: 9.92 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 266

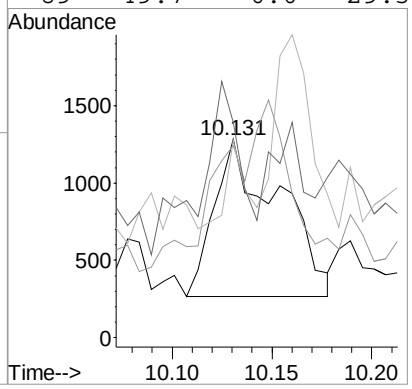
Sig	Exp Ratio
266	100
268	66.1
264	63.0
165	56.0

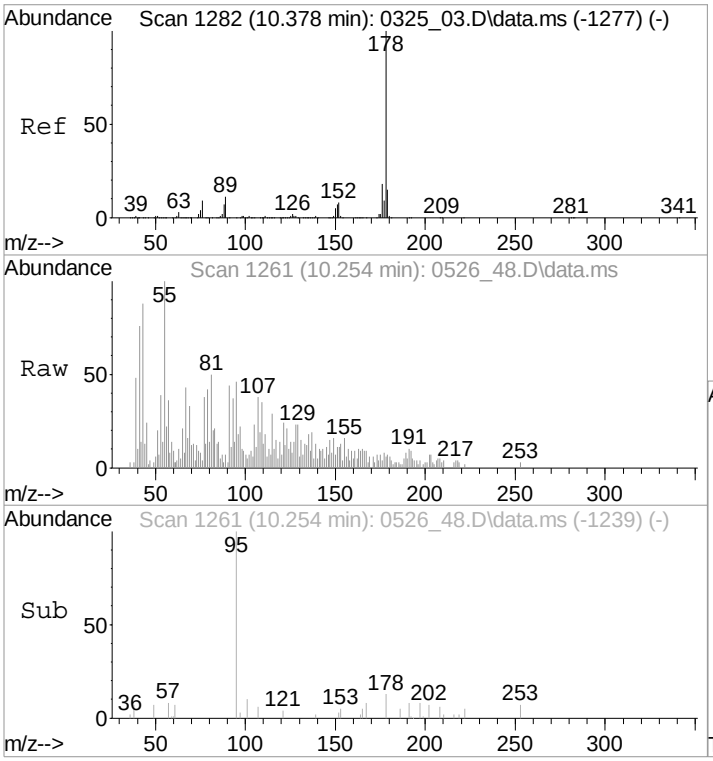


#72
Phenanthrene
Concen: 0.1988188 ppb
RT: 10.131 min Scan# 1240
Delta R.T. -0.041 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:178 Resp: 2316

Ion	Ratio	Lower	Upper
178	100		
179	64.5	0.0	34.7#
152	41.2	0.0	30.3#
89	49.7	0.0	29.3#

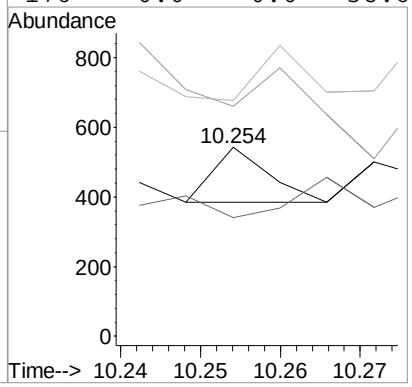


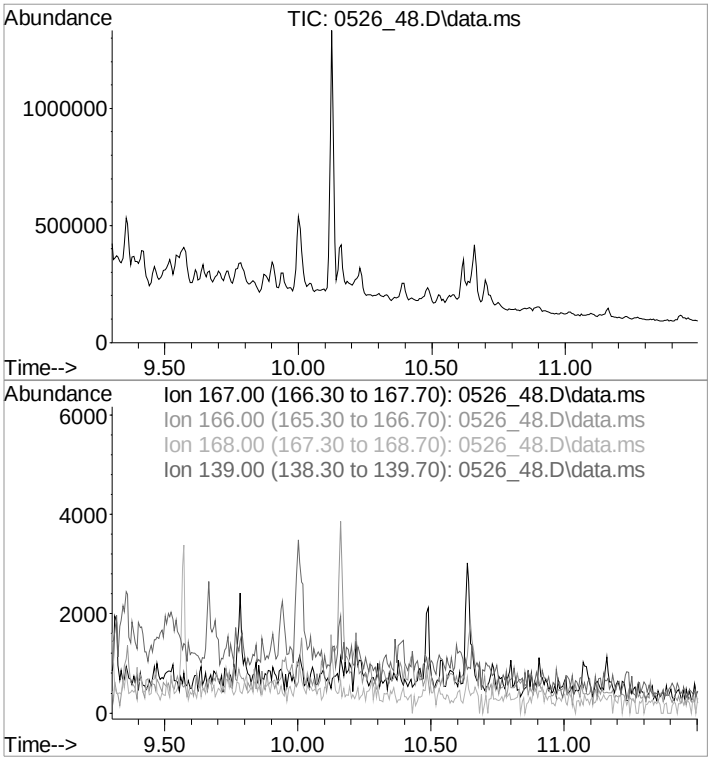


#73
Anthracene
Concen: Below Cal
RT: 10.254 min Scan# 1261
Delta R.T. 0.030 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:178 Resp: 77

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	35.6
177	0.0	0.0	29.9
176	0.0	0.0	38.6



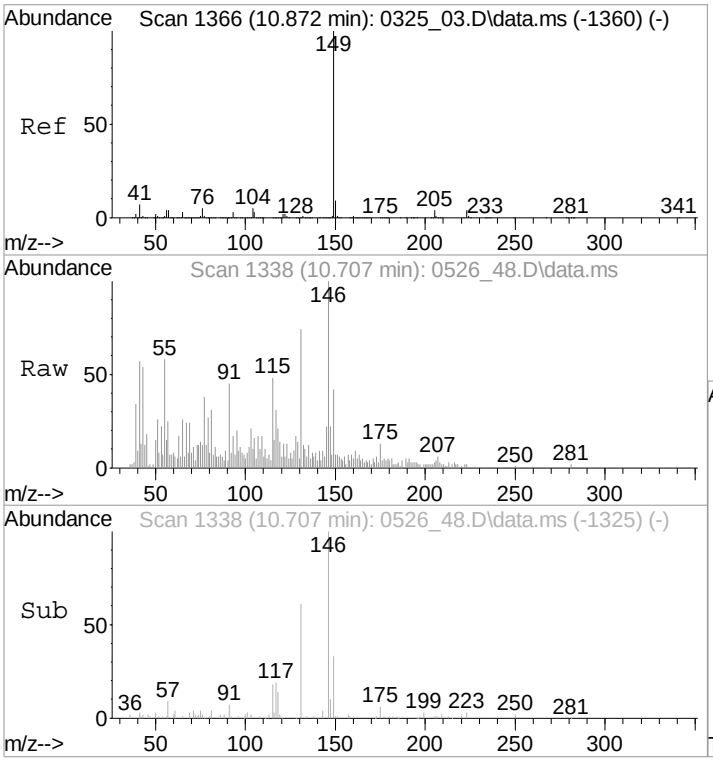


#74
Carbazole
Concen: N.D.
Expected RT: 10.40 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 167

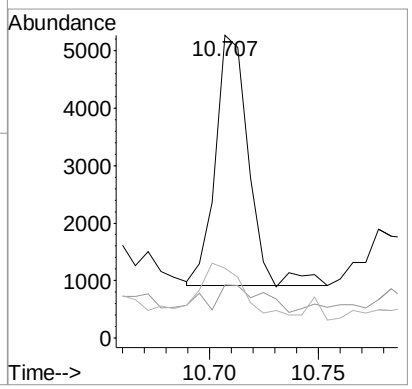
Sig	Exp Ratio
167	100
166	20.9
168	13.5
139	13.7

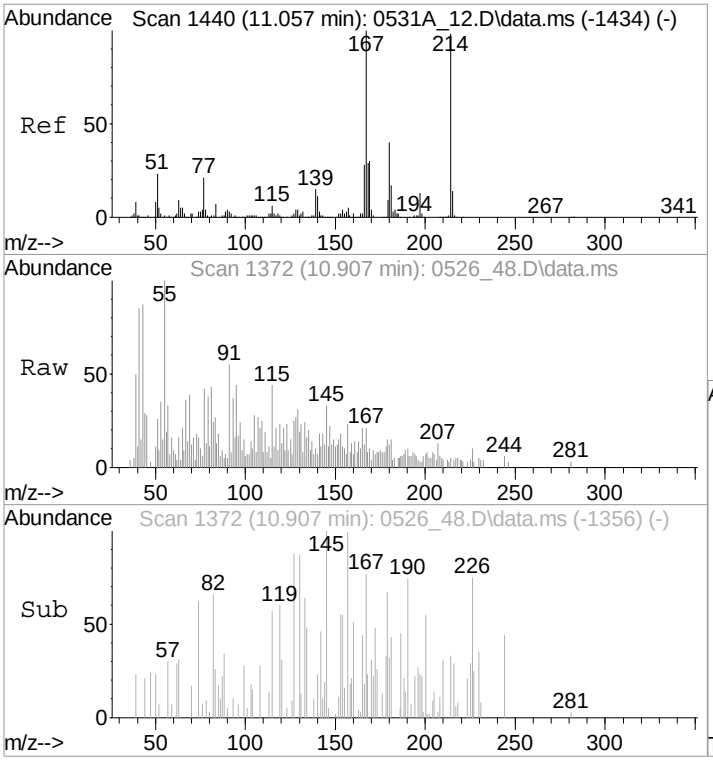


#75
Di-n-butyl phthalate
Concen: 0.3207288 ppb
RT: 10.707 min Scan# 1338
Delta R.T. -0.023 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:149 Resp: 4636

Ion	Ratio	Lower	Upper
149	100		
150	8.8	0.0	28.7
104	20.6	0.0	25.3

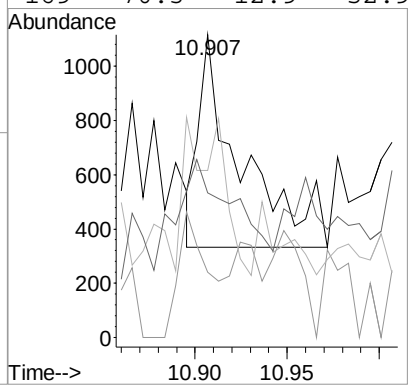


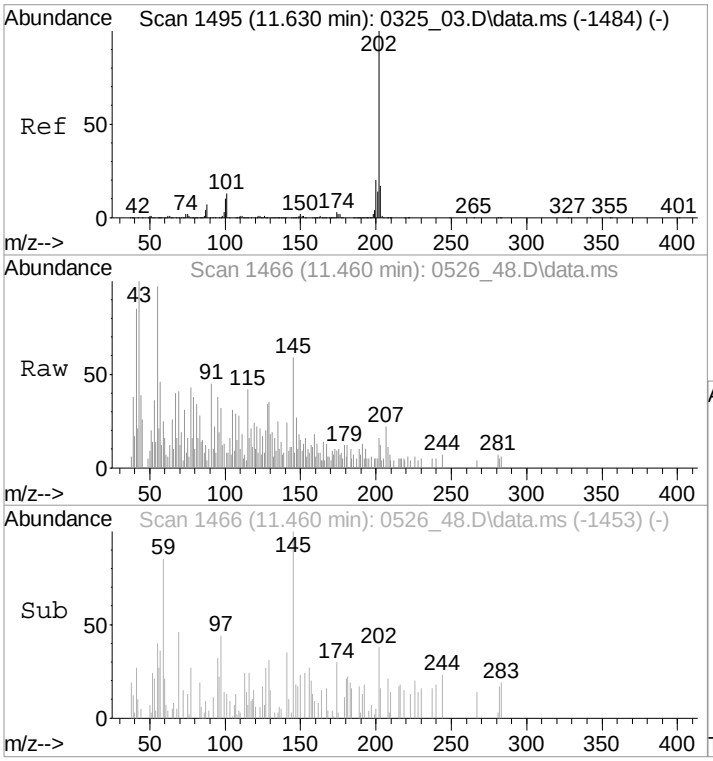


#76
2-nitrodiphenylamine
Concen: 3.7392015 ppb
RT: 10.907 min Scan# 1372
Delta R.T. -0.005 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:167 Resp: 1258

Ion	Ratio	Lower	Upper
167	100		
214	107.2	58.7	98.7#
180	62.5	13.7	53.7#
169	70.3	12.9	52.9#

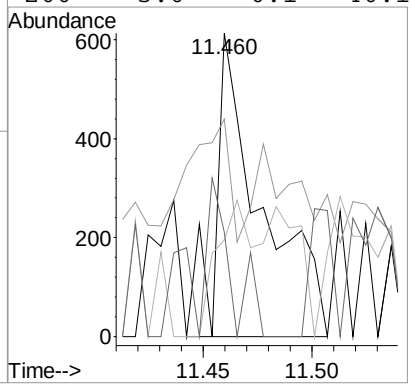


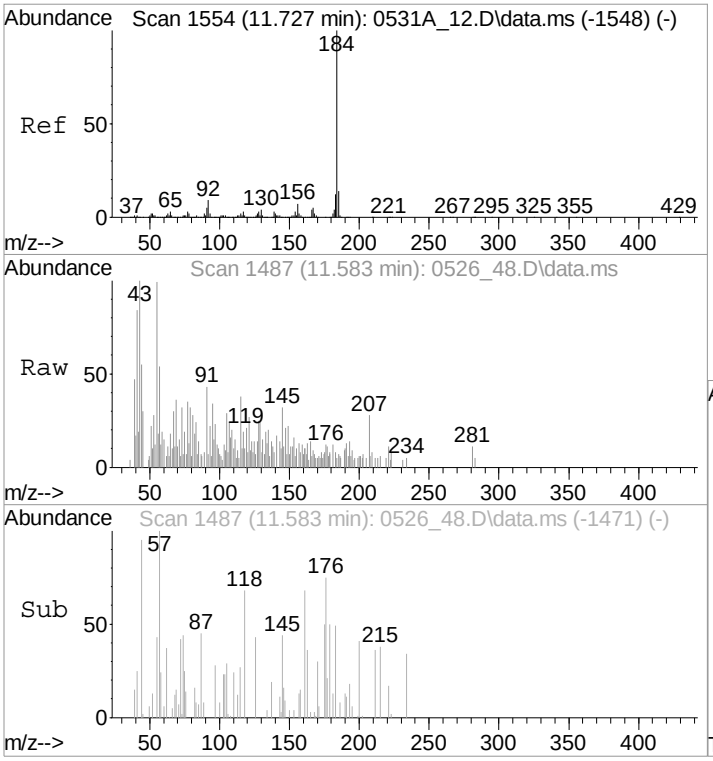


#77
Fluoranthene
Concen: Below Cal
RT: 11.460 min Scan# 1466
Delta R.T. -0.023 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:202 Resp: 894

Ion	Ratio	Lower	Upper
202	100		
203	24.9	0.0	37.2
201	31.8	0.0	34.6
200	5.0	0.1	40.1

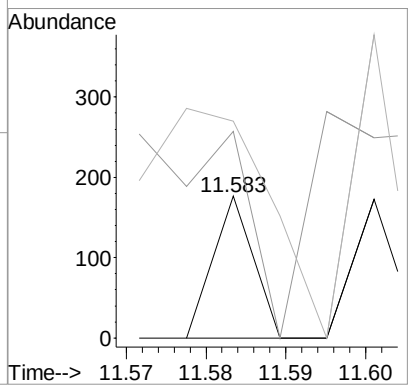


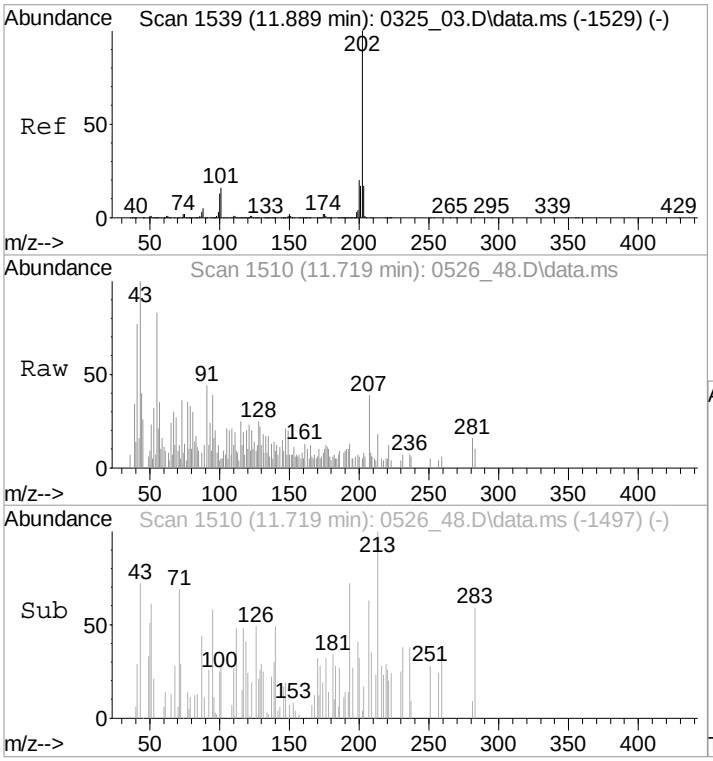


#79
Benzidine
Concen: 3.3657128 ppb
RT: 11.583 min Scan# 1487
Delta R.T. -0.006 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:184 Resp: 62

Ion	Ratio	Lower	Upper
184	100		
185	0.0	0.0	33.4
183	0.0	0.0	31.7

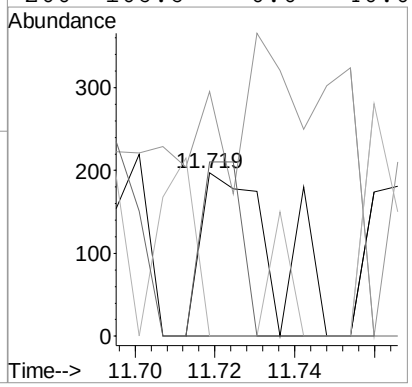


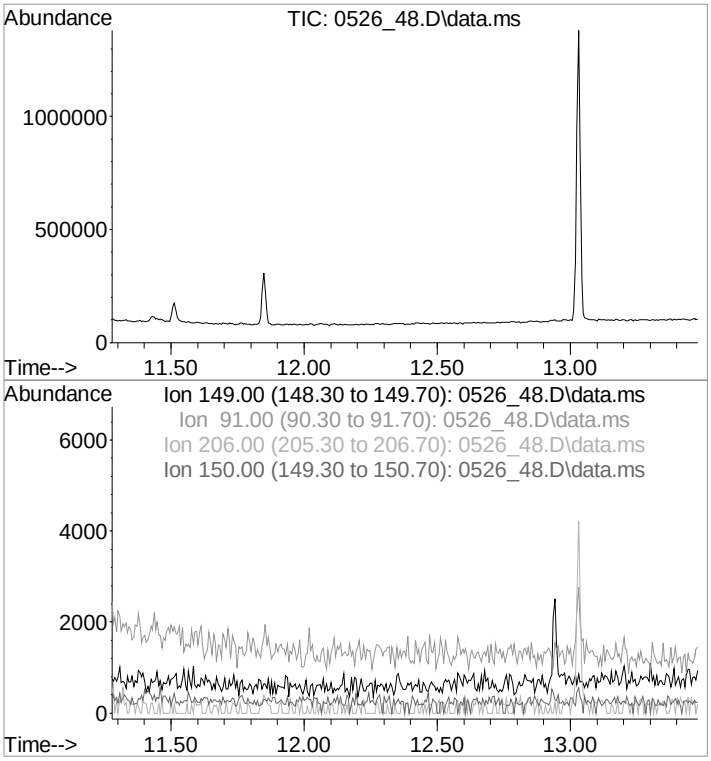


#80
Pyrene
Concen: Below Cal
RT: 11.719 min Scan# 1510
Delta R.T. -0.023 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:202 Resp: 258

Ion	Ratio	Lower	Upper
202	100		
203	46.2	0.0	37.4#
201	0.0	0.0	37.1
200	106.6	0.0	40.0#



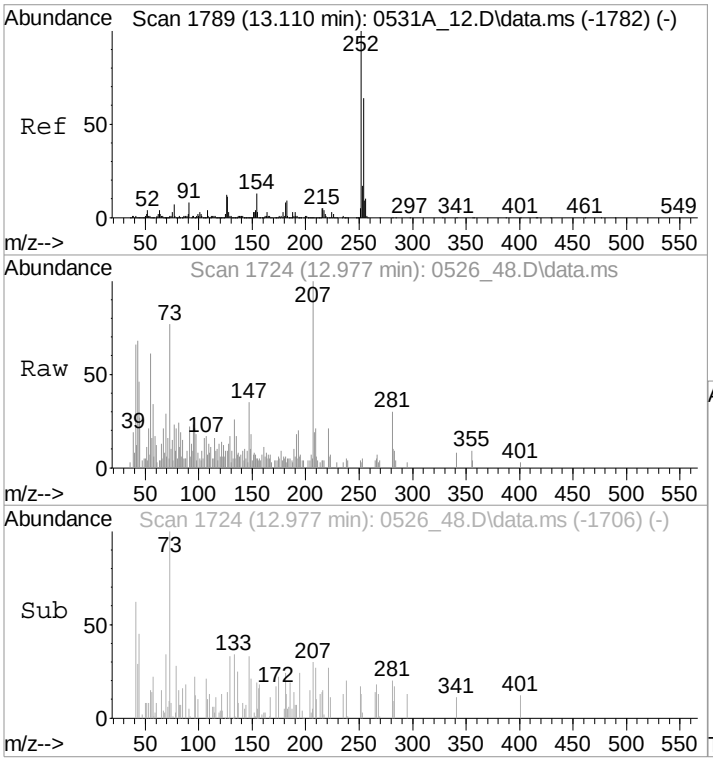


#82
Benzylbutyl phthalate
Concen: N.D.
Expected RT: 12.38 min

Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 149

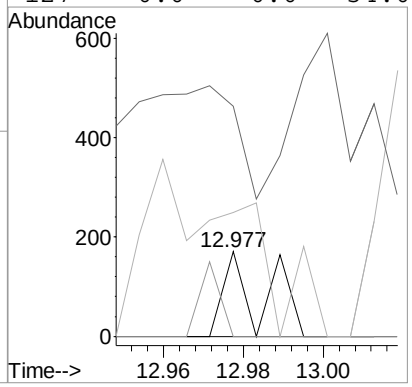
Sig	Exp Ratio
149	100
91	78.5
206	18.2
150	11.8

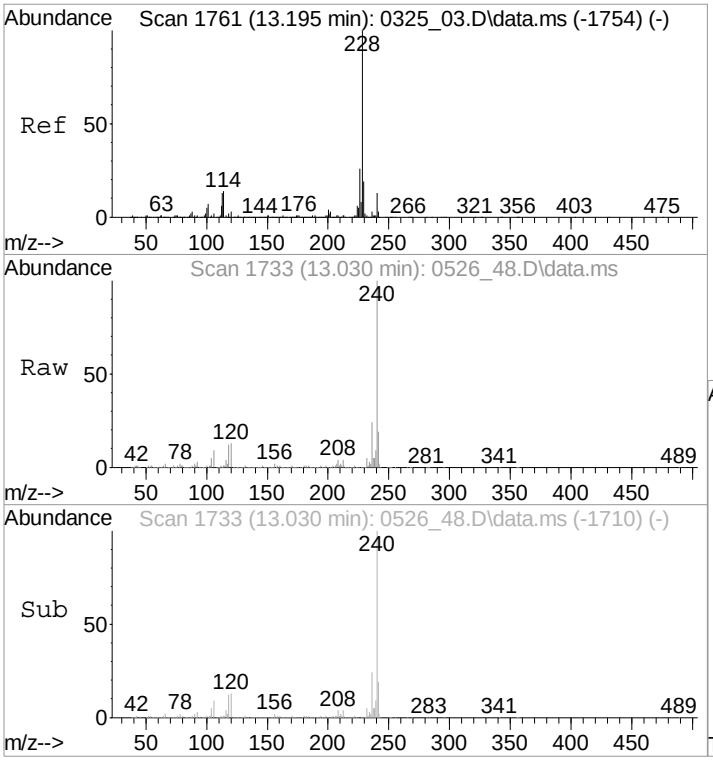


#83
3,3-Dichlorobenzidine
Concen: Below Cal
RT: 12.977 min Scan# 1724
Delta R.T. 0.006 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:252 Resp: 118

Ion	Ratio	Lower	Upper
252	100		
254	0.0	43.0	83.0#
154	270.8	0.0	36.0#
127	0.0	0.0	34.0

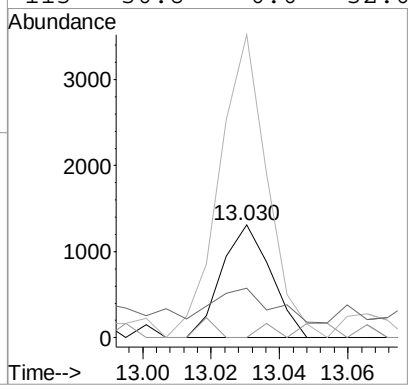


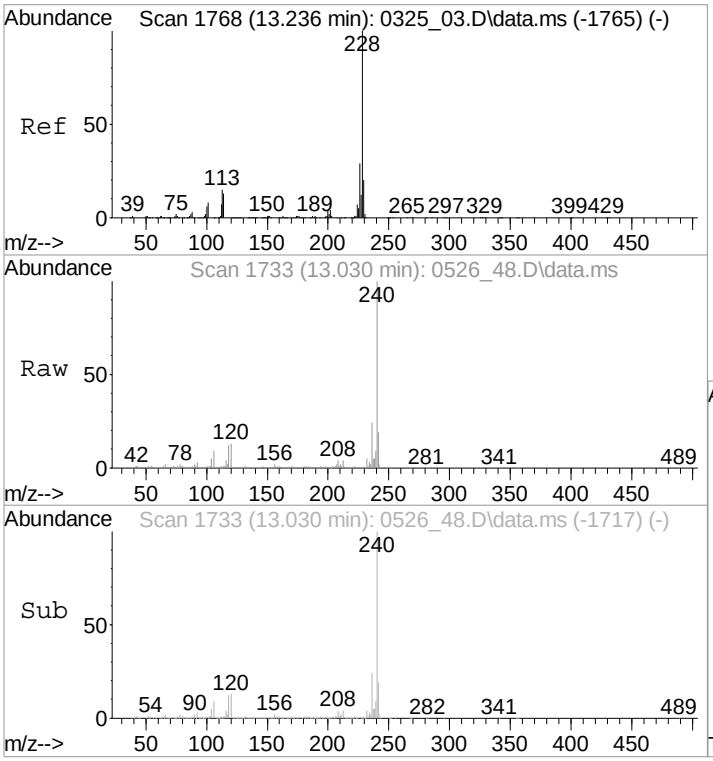


#84
Benzo(a)anthracene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.018 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:228 Resp: 1312

Ion	Ratio	Lower	Upper
228	100		
226	0.0	6.1	46.1#
114	269.0	0.0	33.0#
113	30.8	0.0	32.0

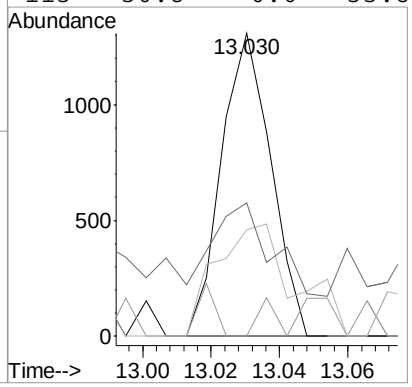


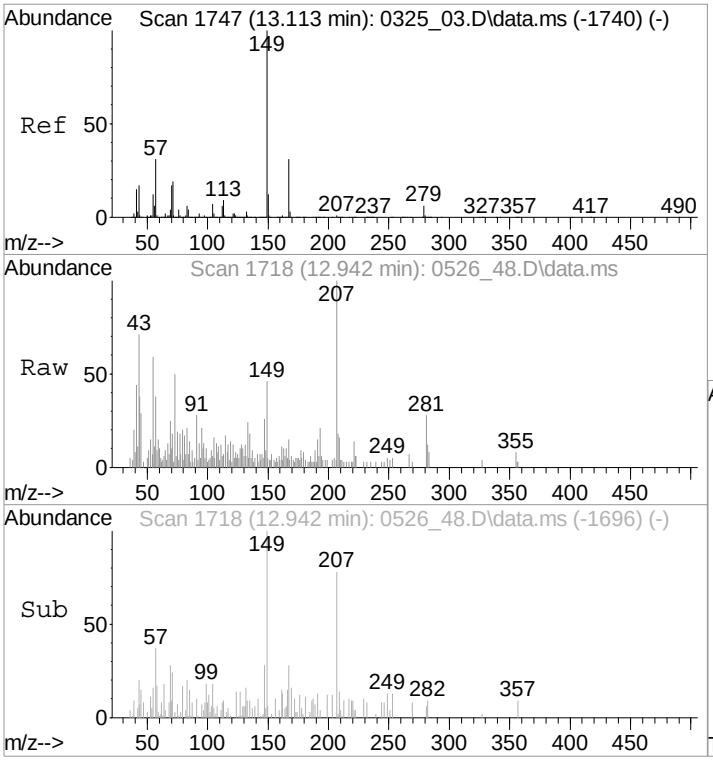


#85
Chrysene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.059 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:228 Resp: 1312

Ion	Ratio	Lower	Upper
228	100		
226	0.0	9.0	49.0#
229	35.1	0.0	39.4
113	30.8	0.0	33.8

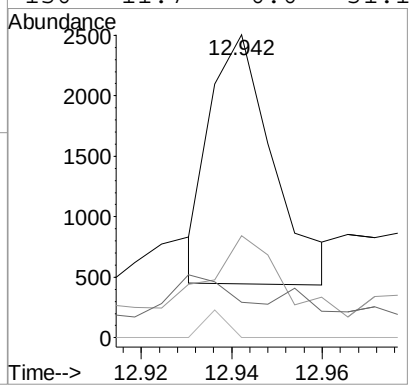


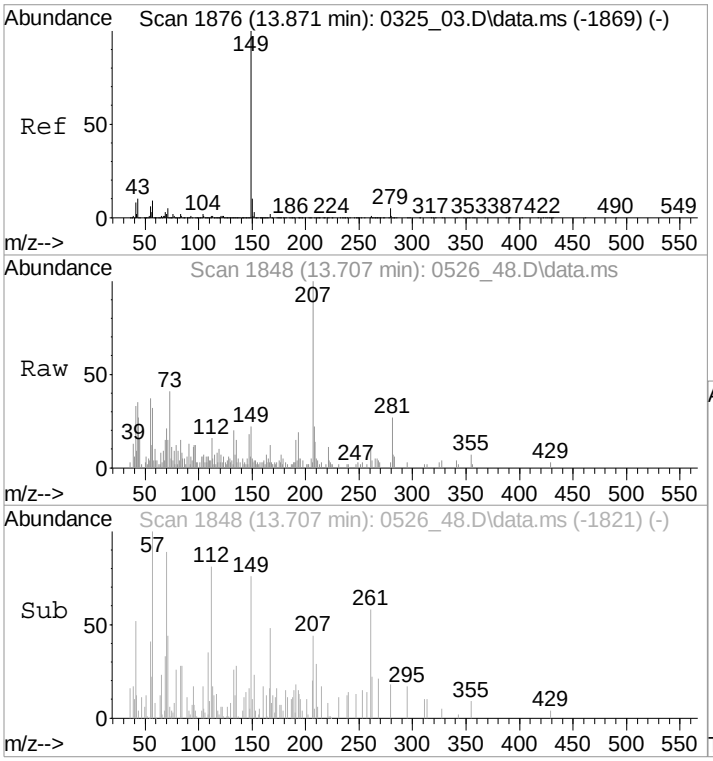


#86
bis(2-Ethylhexyl)phthalate
Concen: 0.1722113 ppb m
RT: 12.942 min Scan# 1718
Delta R.T. -0.023 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:149 Resp: 1990

Ion	Ratio	Lower	Upper
149	100		
167	33.6	8.4	48.4
279	0.0	0.0	25.2
150	11.7	0.0	31.1

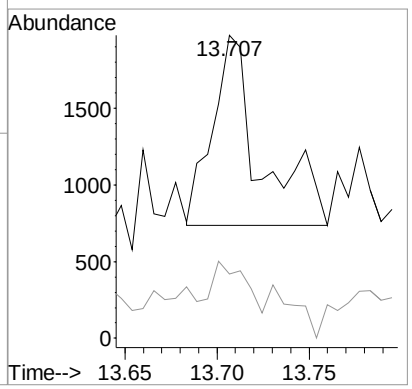


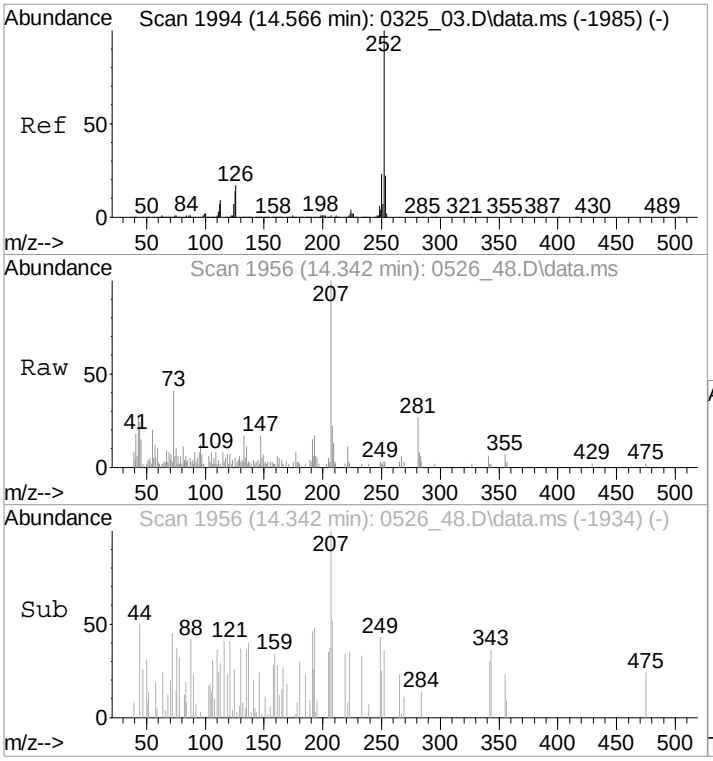


#87
Di-n-octyl phthalate
Concen: Below Cal
RT: 13.707 min Scan# 1848
Delta R.T. 0.006 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:149 Resp: 2237

Ion	Ratio	Lower	Upper
149	100		
150	16.0	0.0	29.5

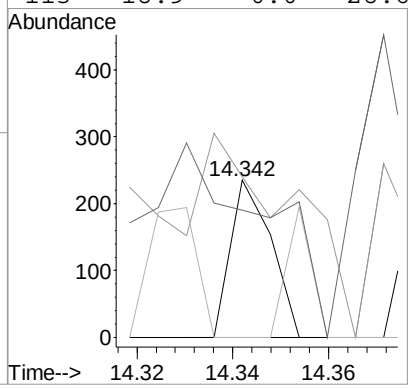


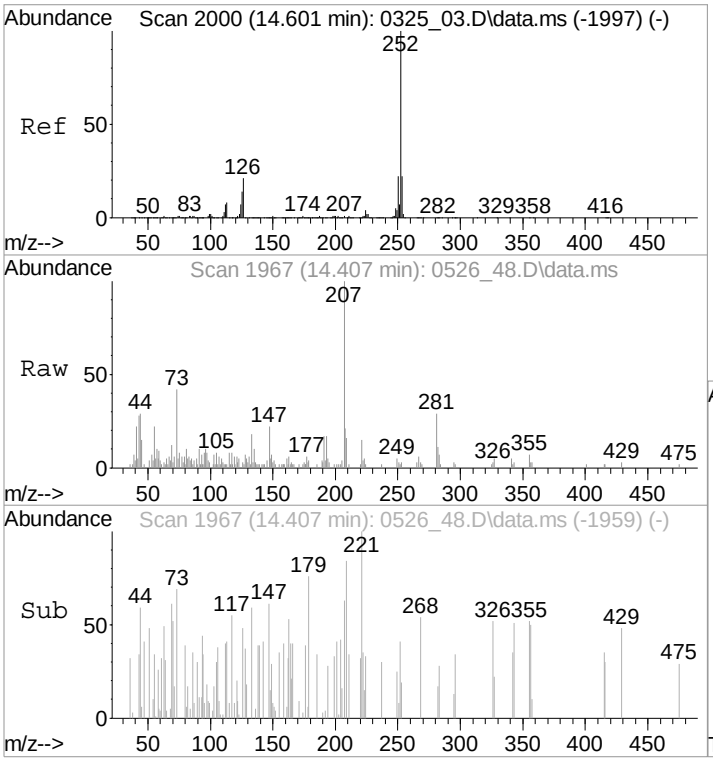


#89
Benzo(b)fluoranthene
Concen: Below Cal
RT: 14.342 min Scan# 1956
Delta R.T. -0.023 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:252 Resp: 137

Ion	Ratio	Lower	Upper
252	100		
253	32.3	1.8	41.8
126	0.0	0.0	36.3
113	18.9	0.0	28.6

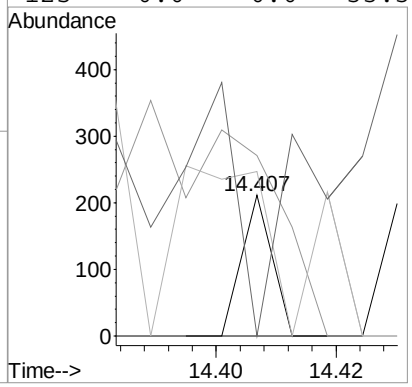


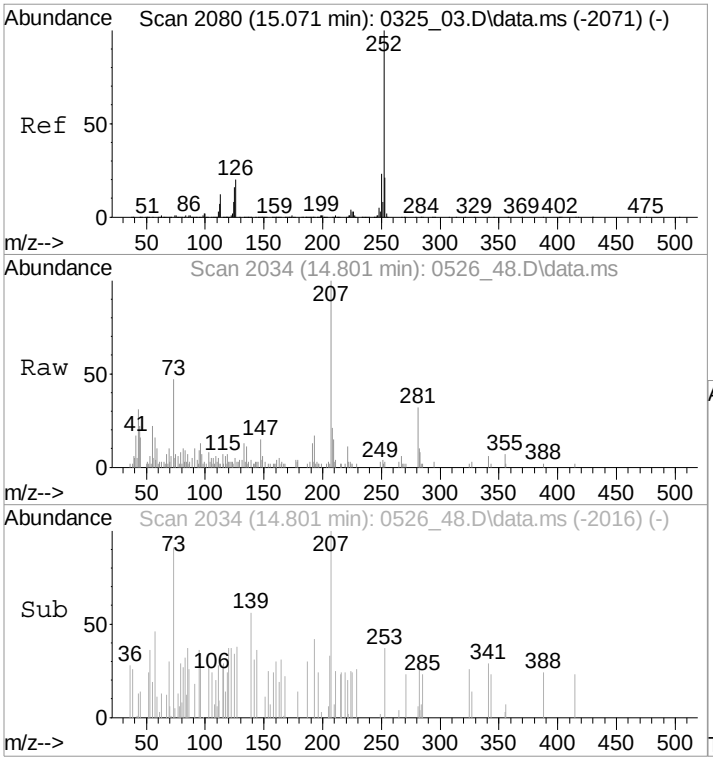


#90
Benzo(k)fluoranthene
Concen: Below Cal
RT: 14.407 min Scan# 1967
Delta R.T. 0.006 min
Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:252 Resp: 74

Ion	Ratio	Lower	Upper
252	100		
253	128.4	1.3	41.3#
126	14.7	0.0	39.4
125	0.0	0.0	33.3

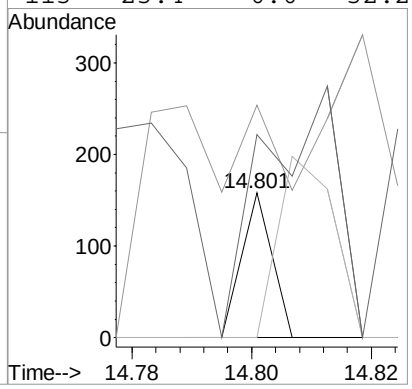


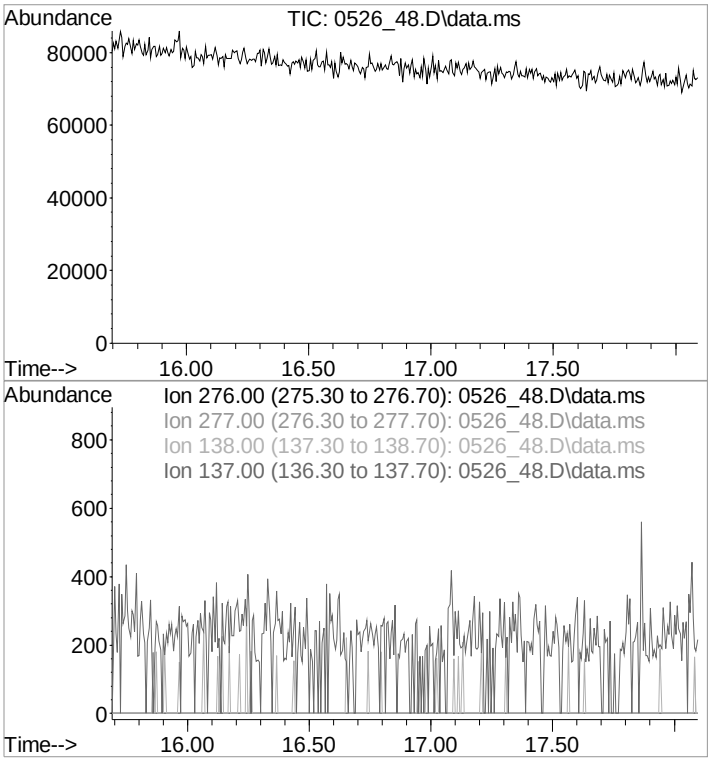


#91
Benzo(a)pyrene
Concen: Below Cal
RT: 14.801 min Scan# 2034
Delta R.T. -0.047 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:252 Resp: 56

Ion	Ratio	Lower	Upper
252	100		
253	9.5	1.7	41.7
126	0.0	0.0	39.6
113	23.4	0.0	32.2



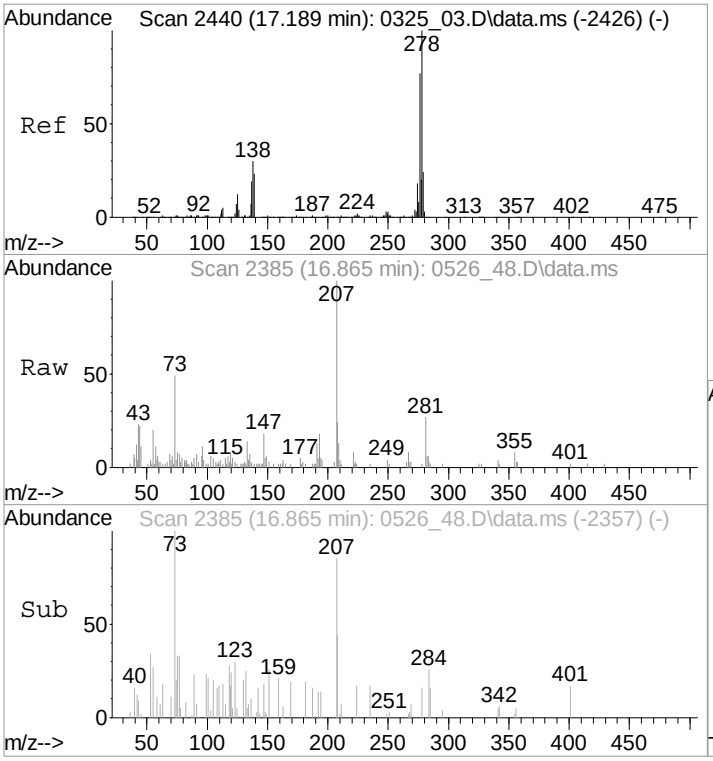


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 16.84 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 276

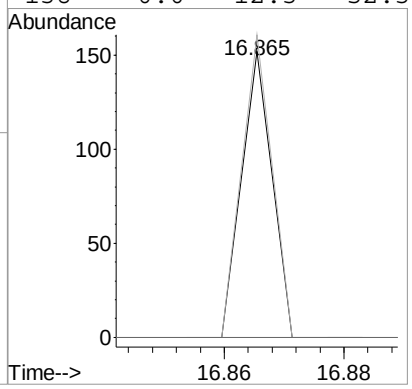
Sig	Exp Ratio
276	100
277	24.7
138	35.5
137	23.2

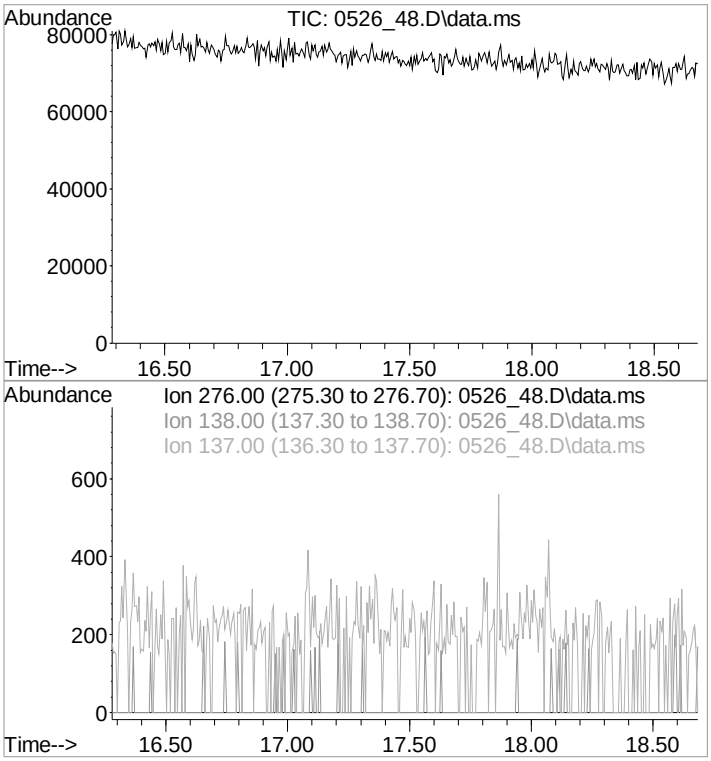


#93
Dibenz(a,h)anthracene
Concen: Below Cal
RT: 16.865 min Scan# 2385
Delta R.T. 0.012 min
Lab File: 0526 48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion:278 Resp: 54

Ion	Ratio	Lower	Upper
278	100		
279	0.0	3.4	43.4#
139	105.9	1.9	41.9#
138	0.0	12.3	52.3#





#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.43 min

Lab File: 0526_48.D
Acq: 27 May 2015 9:38 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	30.7
137	26.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 50.D
Acq On : 27 May 2015 10:25 pm
Operator : 377
Sample : L767115-09 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:31:02 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	62021	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	255171	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	178041	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	329082	8000.0000000 ppb	0.00
78) Chrysene-d12	13.030	240	370755	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	384046	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	18261	9.8096997 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 49.05%		
7) Phenol-d5	4.954	99	16977	6.6797423 ppb	-0.02
Spiked Amount 20.000	Range 10 - 67		Recovery = 33.40%		
23) Nitrobenzene-d5	5.848	82	16675	6.2215979 ppb	-0.02
Spiked Amount 10.000	Range 12 - 120		Recovery = 62.22%		
44) 2-Fluorobiphenyl	7.742	172	37759	6.6062651 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 66.06%		
67) 2,4,6-Tribromophenol	9.354	330	13580	15.6543492 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 78.27%		
81) p-Terphenyl-d14	11.848	244	60779	6.5805438 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 65.81%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	4.954	66	1129	0.8160445 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.101	41	9522	6.3583264 ppb #	69
12) 1,3-Dichlorobenzene	5.319	146	62	N.D.	
13) 1,4-Dichlorobenzene	5.319	146	62	N.D.	
14) Benzyl Alcohol	5.466	79	69	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.690	105	164	N.D.	
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 50.D
Acq On : 27 May 2015 10:25 pm
Operator : 377
Sample : L767115-09 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:31:02 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	4-Chloro-3-methylphenol	7.190	107	137	N.D.		
37)	2-Methylnaphthalene	0.000		0	N.D.		
38)	1-Methylnaphthalene	0.000		0	N.D.		
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	0.000		0	N.D.		
42)	2,4,6-Trichlorophenol	0.000		0	N.D.		
43)	2,4,5-Trichlorophenol	0.000		0	N.D.		
45)	Biphenyl	0.000		0	N.D.		
46)	2-Chloronaphthalene	0.000		0	N.D.		
47)	2-Nitroaniline	0.000		0	N.D.		
48)	Acenaphthylene	0.000		0	N.D.		
49)	Dimethyl phthalate	8.166	163	956	0.1628460 ppb		78
50)	2,6-Dinitrotoluene	0.000		0	N.D.		
51)	3-Nitroaniline	0.000		0	N.D.		
52)	Acenaphthene	0.000		0	N.D.		
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	0.000		0	N.D.		
55)	2,4-Dinitrotoluene	0.000		0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
57)	4-Nitrophenol	0.000		0	N.D.		
58)	Fluorene	0.000		0	N.D.		
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60)	Diethyl phthalate	8.931	149	371	N.D.		
61)	4-Nitroaniline	0.000		0	N.D.		
62)	Azobenzene	9.289	77	65	N.D.		
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D.		
68)	4-Bromophenyl-phenylether	0.000		0	N.D.		
69)	Hexachlorobenzene	0.000		0	N.D.		
70)	n-octadecane	9.948	55	385	0.2446915 ppb	#	31
71)	Pentachlorophenol	0.000		0	N.D.		
72)	Phenanthrene	10.131	178	138	N.D.		
73)	Anthracene	0.000		0	N.D.		
74)	Carbazole	0.000		0	N.D.		
75)	Di-n-butyl phthalate	10.707	149	5203	0.4130850 ppb		96
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	0.000		0	N.D.		
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	0.000		0	N.D.		
82)	Benzylbutyl phthalate	0.000		0	N.D. d		
83)	3,3-Dichlorobenzidine	0.000		0	N.D.		
84)	Benzo(a)anthracene	13.030	228	1201	N.D.		
85)	Chrysene	13.030	228	1201	N.D.		
86)	bis(2-Ethylhexyl)phtha...	12.942	149	2872	0.2907269 ppb		92
87)	Di-n-octyl phthalate	13.713	149	1431	N.D.		
89)	Benzo(b)fluoranthene	0.000		0	N.D.		
90)	Benzo(k)fluoranthene	0.000		0	N.D.		
91)	Benzo(a)pyrene	14.807	252	62	N.D.		
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93)	Dibenz(a,h)anthracene	0.000		0	N.D.		
94)	Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 50.D
Acq On : 27 May 2015 10:25 pm
Operator : 377
Sample : L767115-09 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:31:02 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

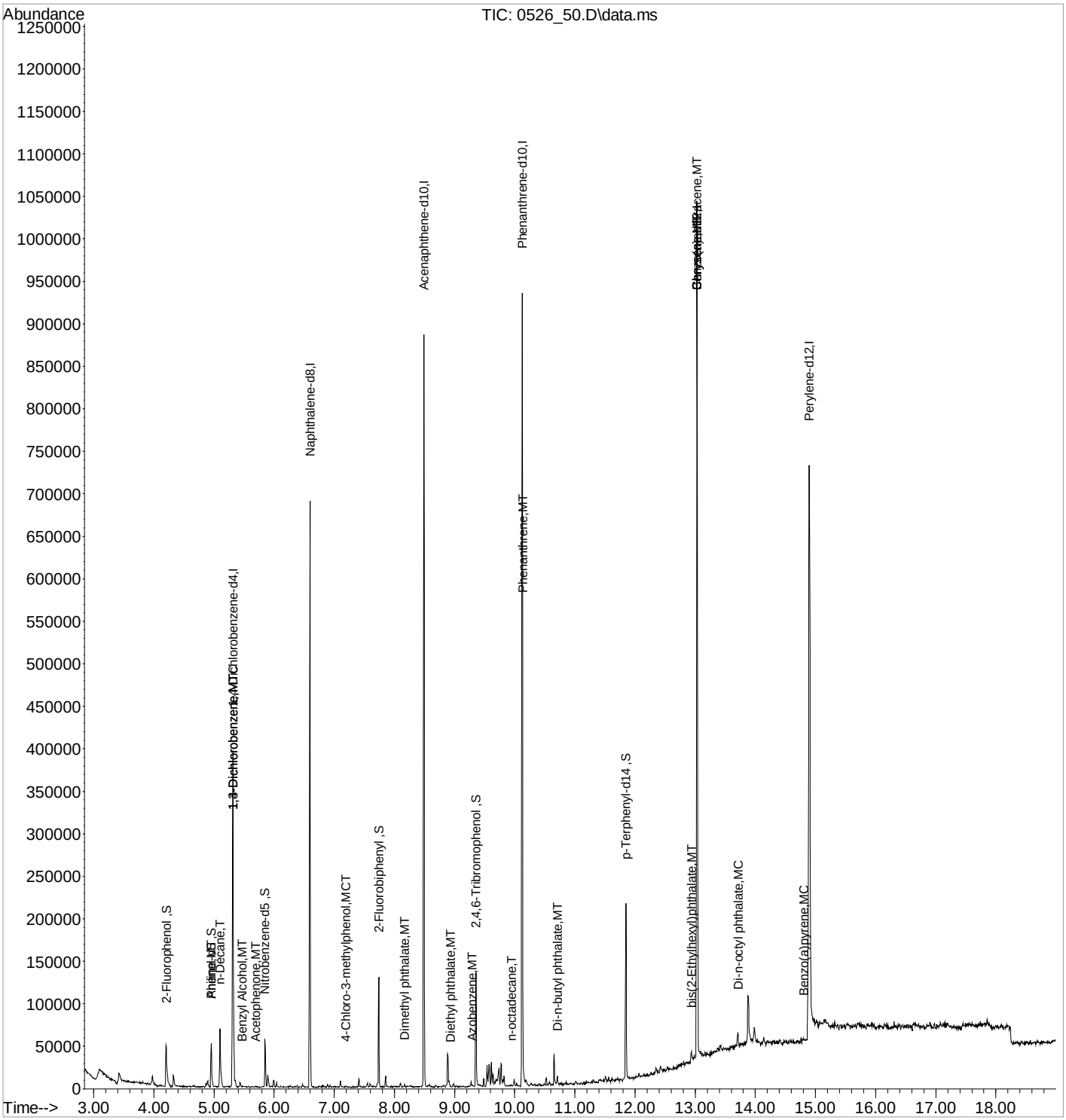
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

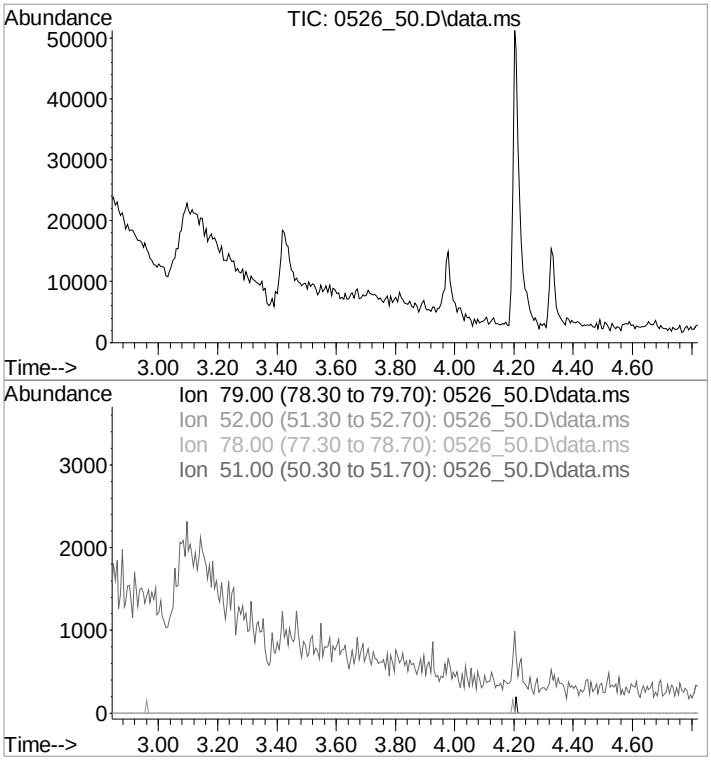
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052615\
Data File : 0526 50.D
Acq On : 27 May 2015 10:25 pm
Operator : 377
Sample : L767115-09 1x WG791571 100-0.5
Misc : water 15E04055/15E11539
ALS Vial : 18 Sample Multiplier: 0.005
InstName : BNAMS23

Quant Time: May 28 11:31:02 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



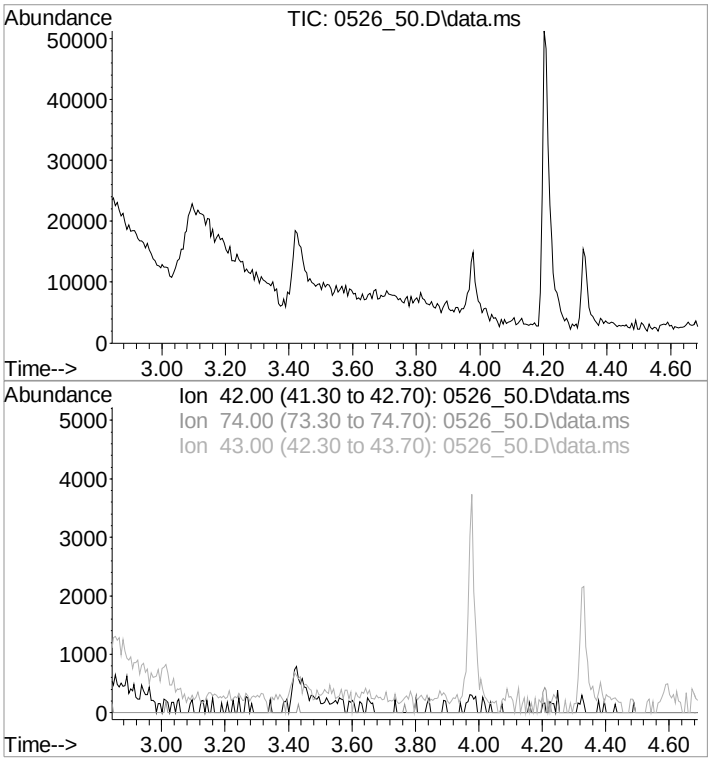


#2
Pyridine
Concen: N.D.
Expected RT: 3.22 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 79

Sig	Exp Ratio
79	100
52	119.2
78	12.9
51	54.9

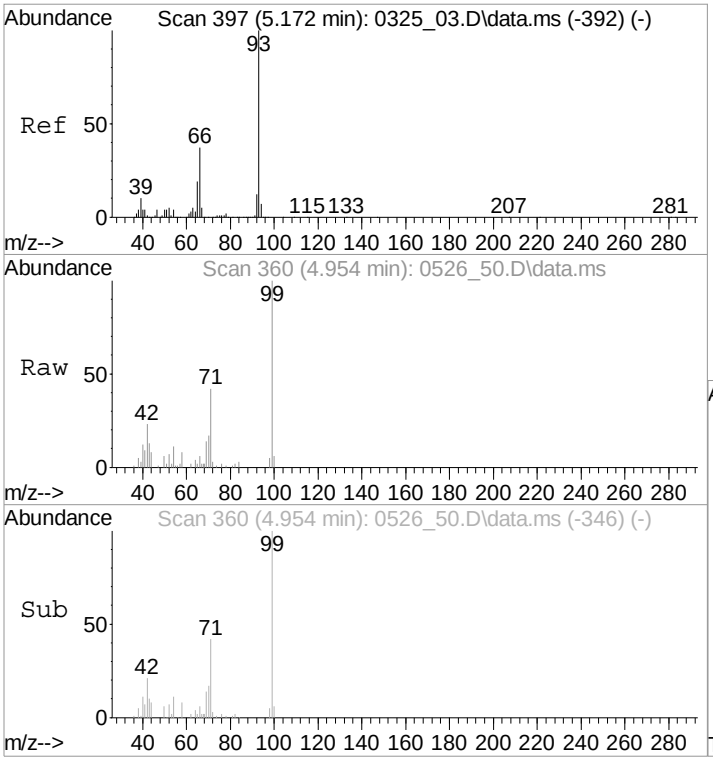


#3
N-Nitrosodimethylamine
Concen: N.D.
Expected RT: 3.19 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 42

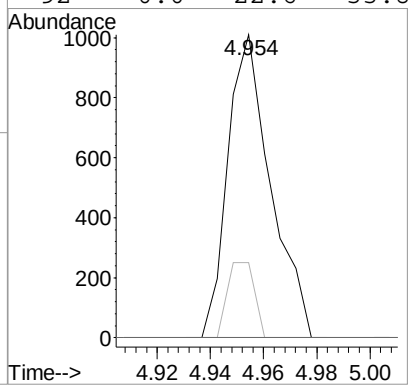
Sig	Exp Ratio
42	100
74	89.6
43	50.7

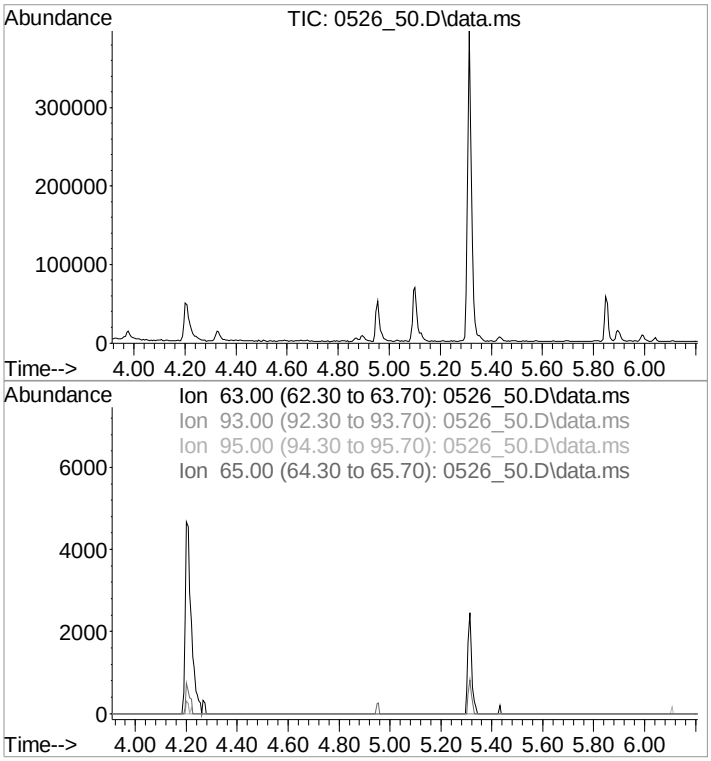


#5
Aniline
Concen: 0.8160445 ppb
RT: 4.954 min Scan# 360
Delta R.T. -0.070 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 66 Resp: 1129

Ion	Ratio	Lower	Upper
66	100		
93	0.0	176.8	265.2#
65	15.7	40.7	61.1#
92	0.0	22.6	33.8#



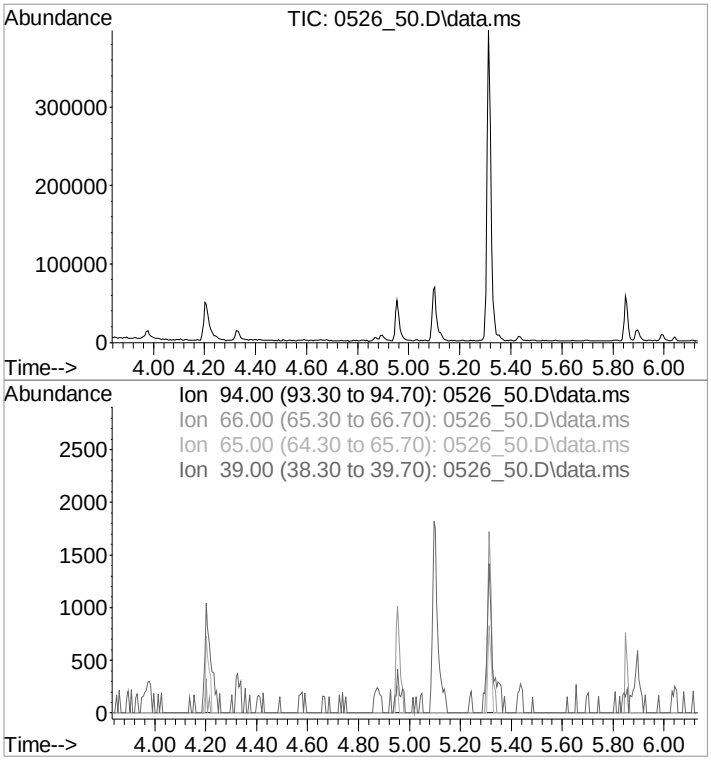


#6
bis(2-Chloroethyl)ether
Concen: N.D.
Expected RT: 5.06 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
93	103.8
95	34.5
65	30.4

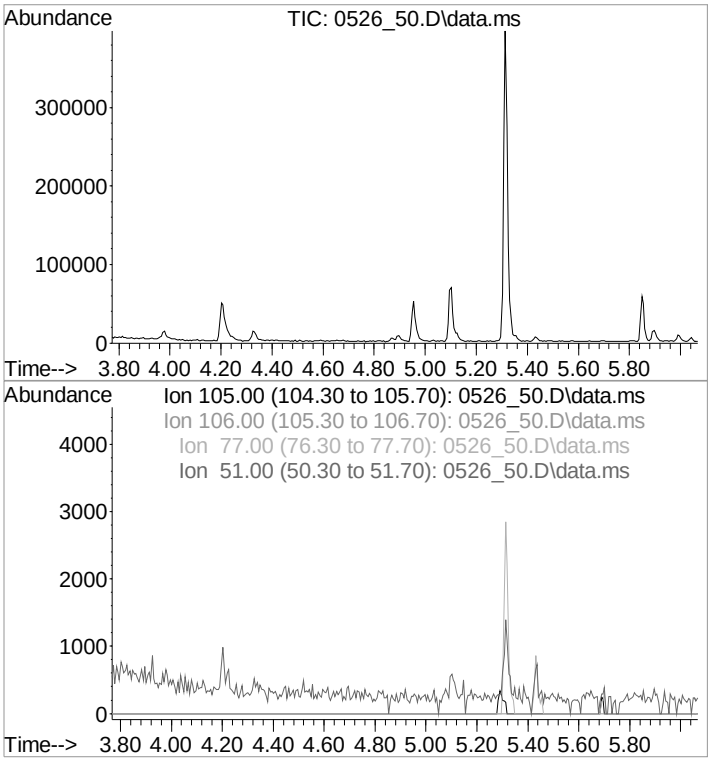


#8
Phenol
Concen: N.D.
Expected RT: 4.98 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 94

Sig	Exp Ratio
94	100
66	50.4
65	35.5
39	29.9

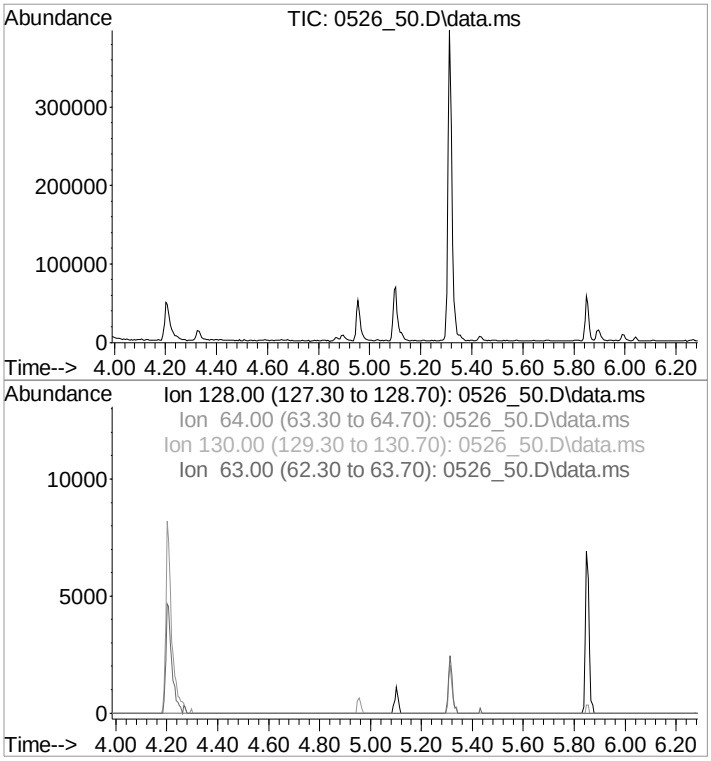


#9
Benzaldehyde
Concen: N.D.
Expected RT: 4.92 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
106	97.5
77	109.2
51	70.6

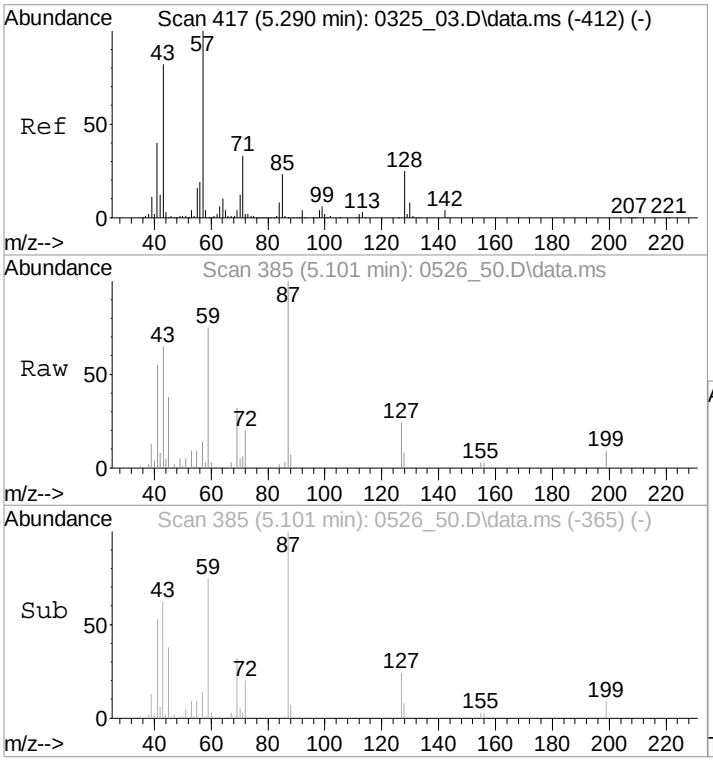


#10
2-Chlorophenol
Concen: N.D.
Expected RT: 5.14 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 128

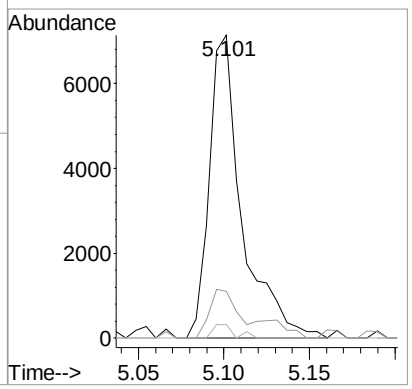
Sig	Exp Ratio
128	100
64	56.2
130	32.1
63	40.7

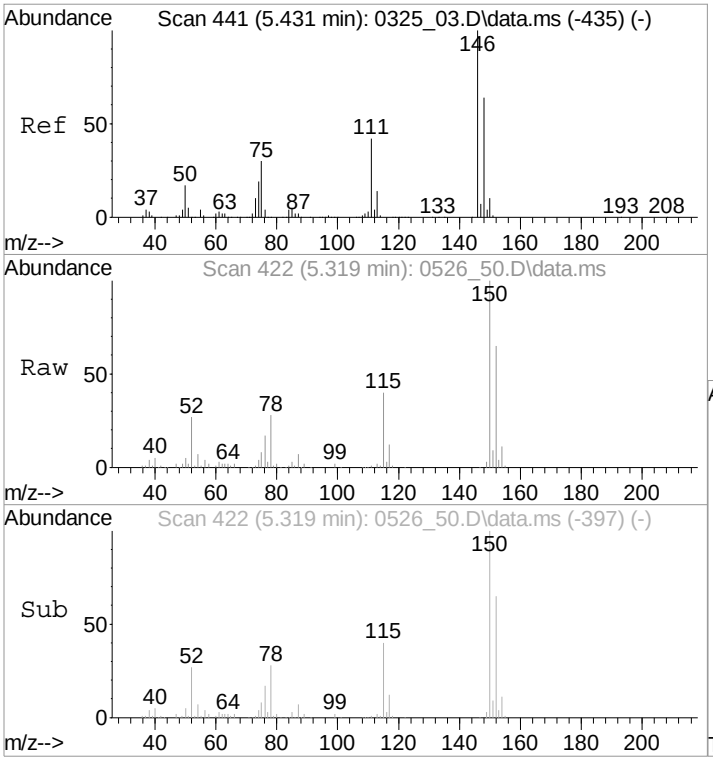


#11
n-Decane
Concen: 6.3583264 ppb
RT: 5.101 min Scan# 385
Delta R.T. -0.035 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 41 Resp: 9522

Ion	Ratio	Lower	Upper
41	100		
55	19.4	31.7	47.5#
67	3.0	2.2	3.2

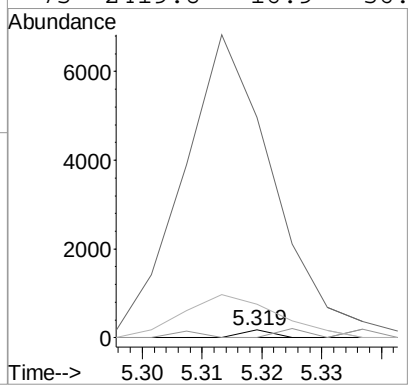


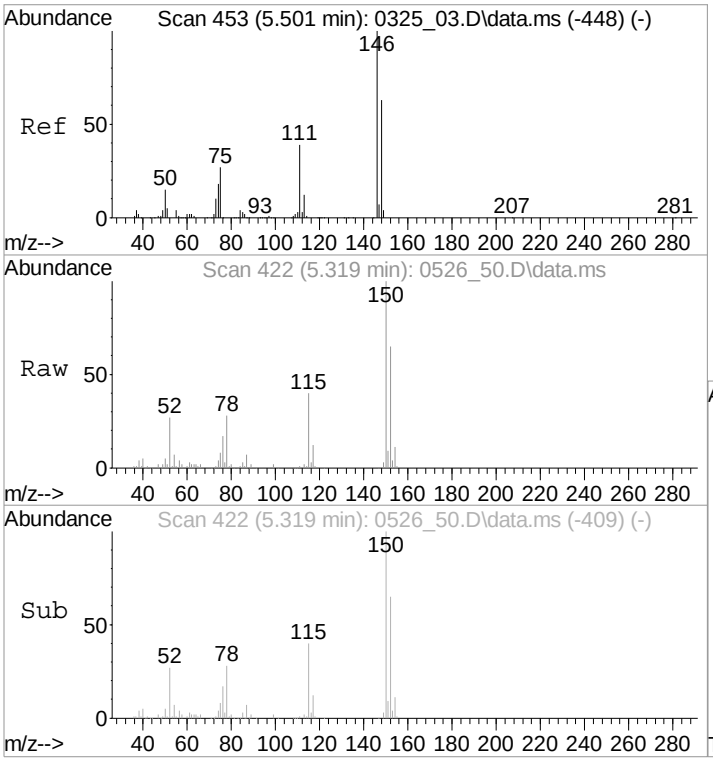


#12
1,3-Dichlorobenzene
Concen: Below Cal
RT: 5.319 min Scan# 422
Delta R.T. 0.047 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:146 Resp: 62

Ion	Ratio	Lower	Upper
146	100		
148	0.0	41.0	81.0#
111	331.1	25.0	65.0#
75	2419.8	16.9	56.9#

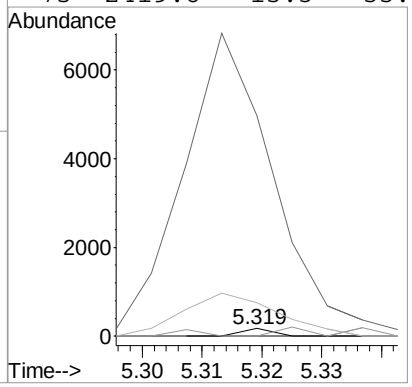


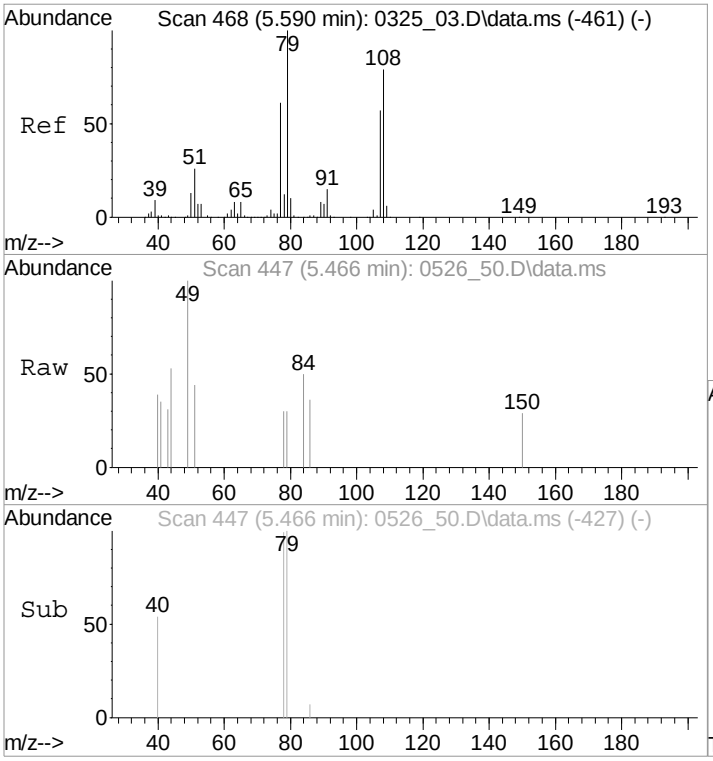


#13
1,4-Dichlorobenzene
Concen: Below Cal
RT: 5.319 min Scan# 422
Delta R.T. -0.023 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:146 Resp: 62

Ion	Ratio	Lower	Upper
146	100		
148	0.0	42.3	82.3#
111	331.1	22.9	62.9#
75	2419.8	15.3	55.3#

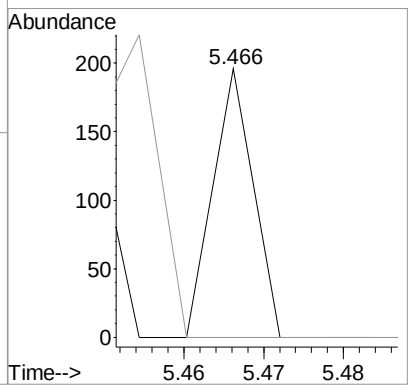


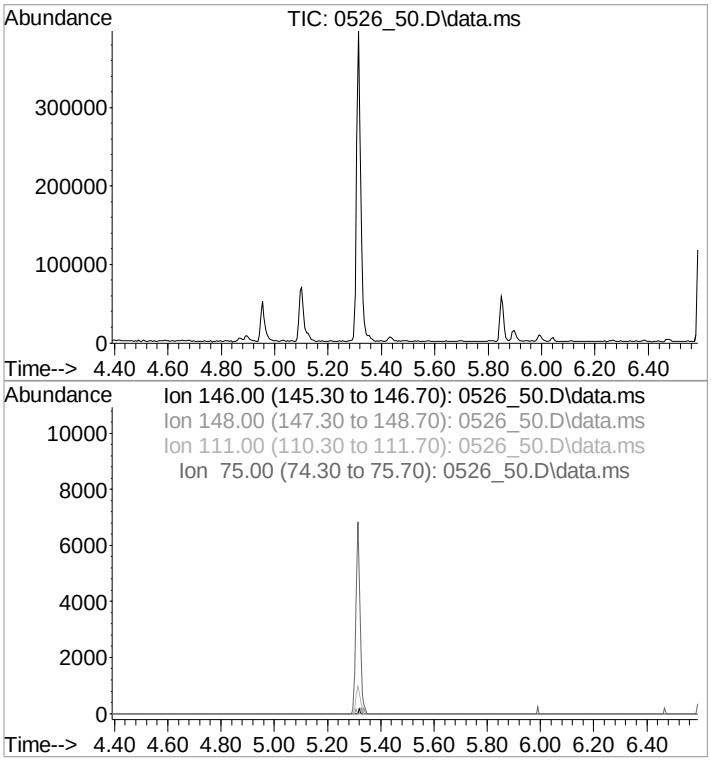


#14
Benzyl Alcohol
Concen: Below Cal
RT: 5.466 min Scan# 447
Delta R.T. 0.018 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 79 Resp: 69

Ion	Ratio	Lower	Upper
79	100		
77	0.0	53.2	79.8#



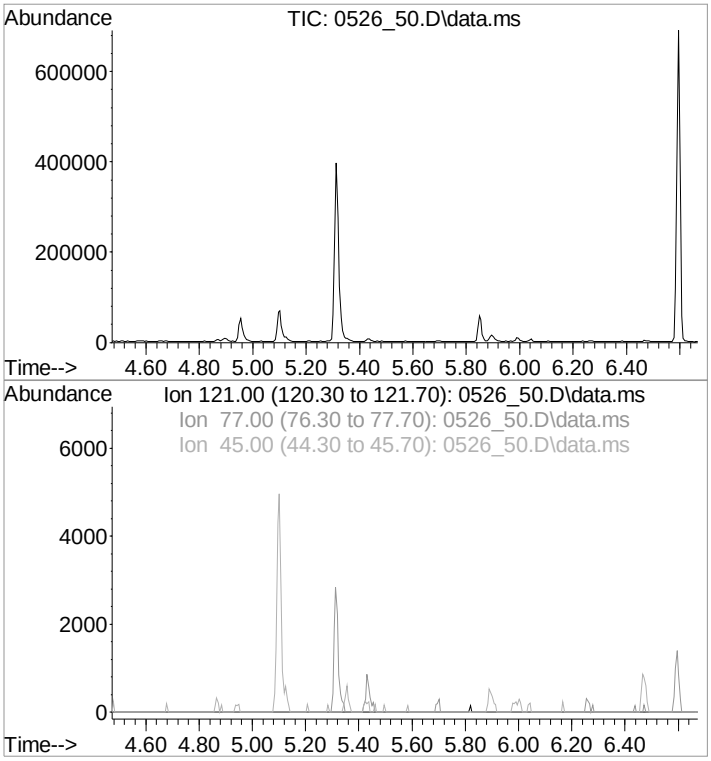


#15
1,2-Dichlorobenzene
Concen: N.D.
Expected RT: 5.49 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	62.1
111	46.1
75	35.4

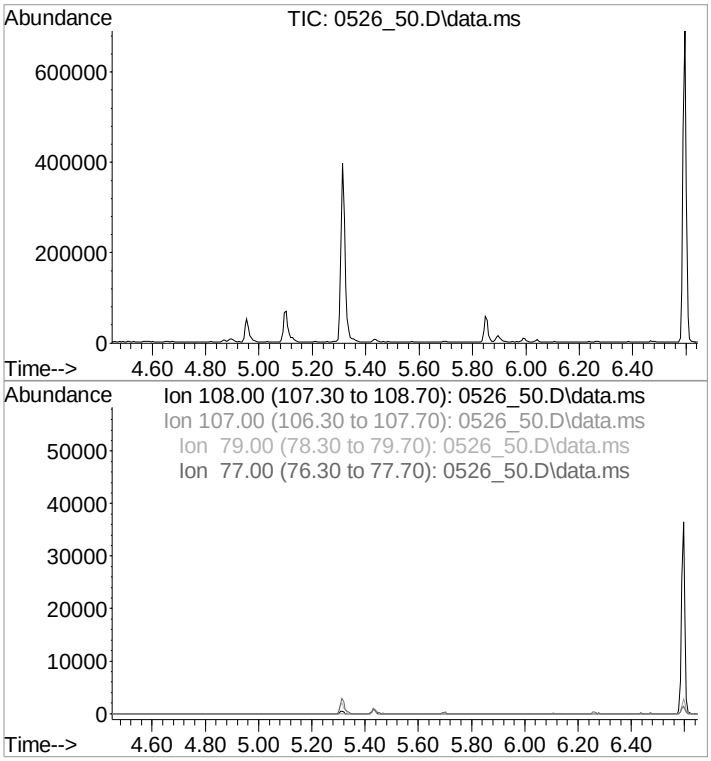


#16
bis(2-Chloroisopropyl)ether
Concen: N.D.
Expected RT: 5.57 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 121

Sig	Exp Ratio
121	100
77	58.8
45	562.9

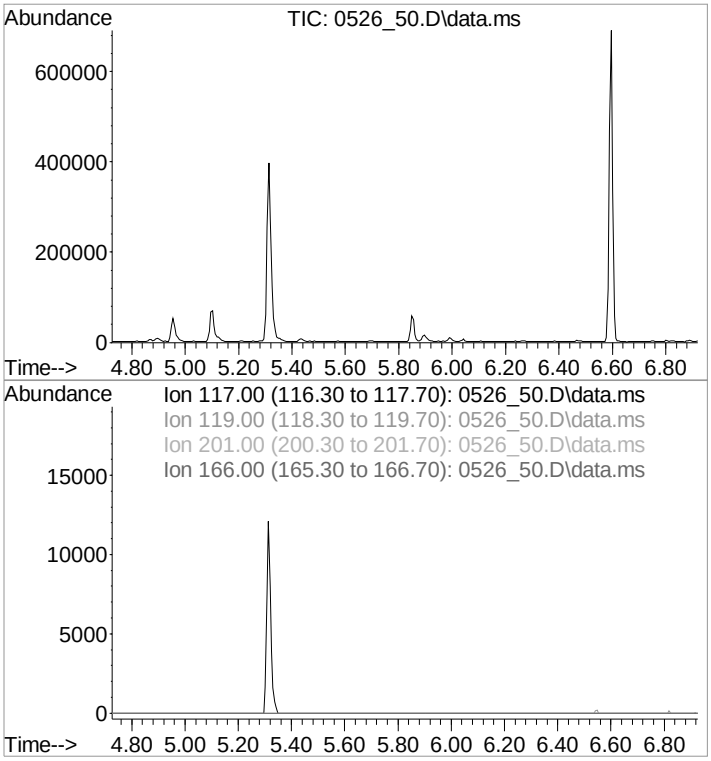


#17
2-Methylphenol
Concen: N.D.
Expected RT: 5.55 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 108

Sig	Exp Ratio
108	100
107	87.6
79	47.2
77	48.6

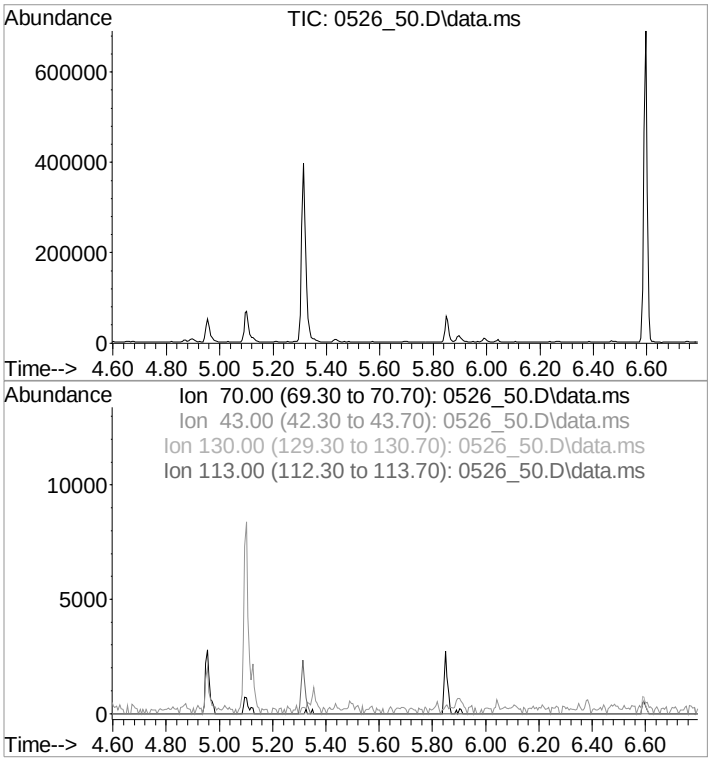


#18
Hexachloroethane
Concen: N.D.
Expected RT: 5.82 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.6
201	80.5
166	51.0

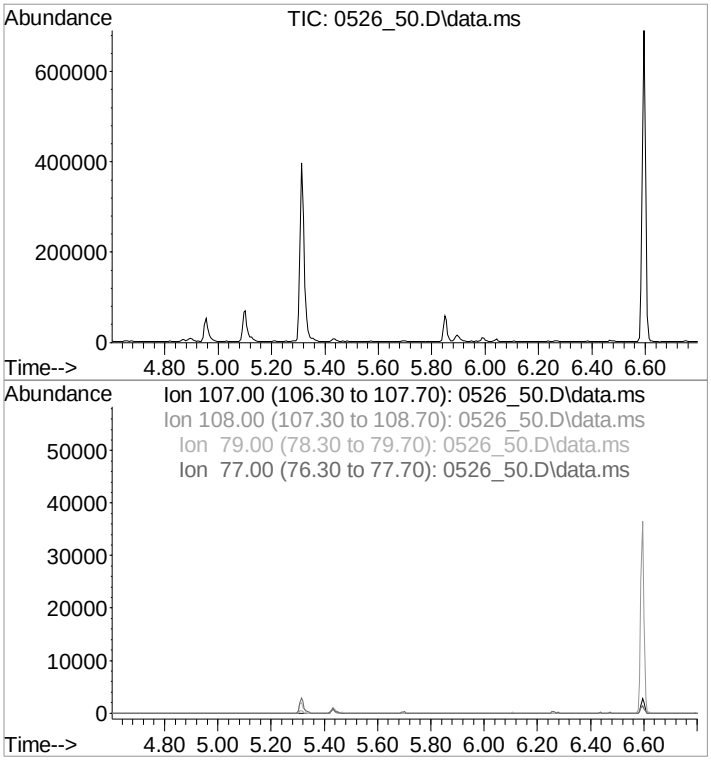


#19
N-Nitrosodi-n-propylamine
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 70

Sig	Exp Ratio
70	100
43	113.6
130	24.0
113	13.1

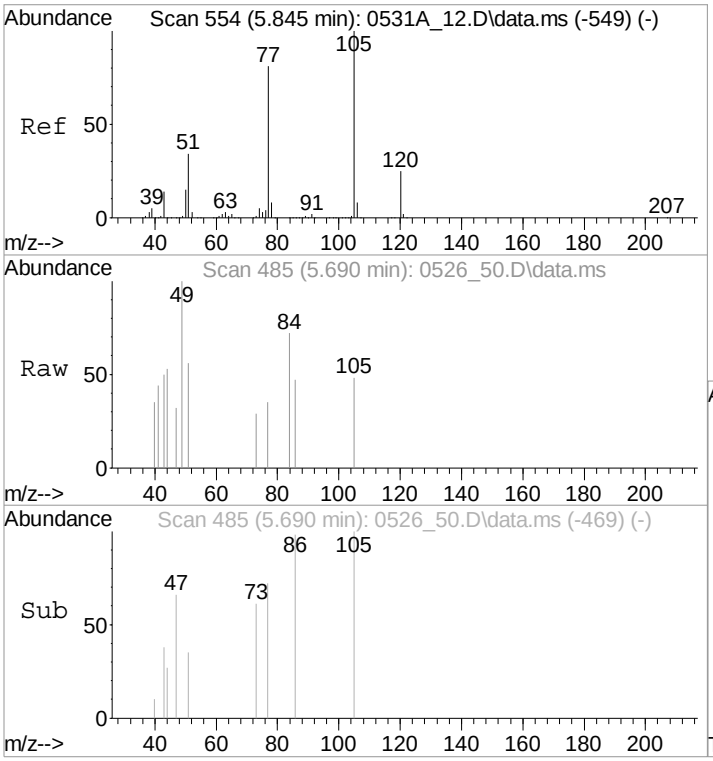


#20
3&4-Methyl phenol
Concen: N.D.
Expected RT: 5.70 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 107

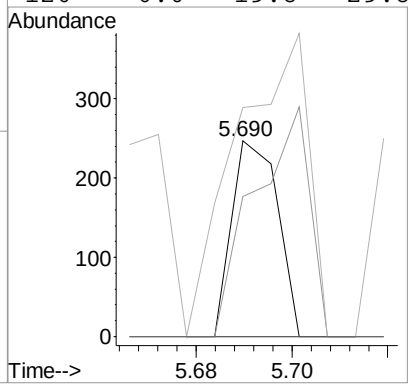
Sig	Exp Ratio
107	100
108	94.4
79	35.8
77	38.2

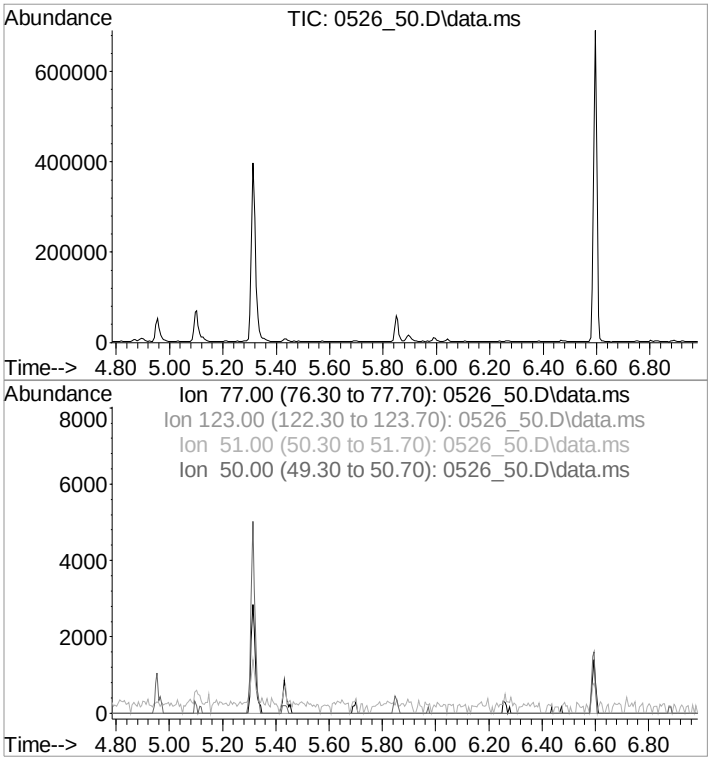


#21
Acetophenone
Concen: Below Cal
RT: 5.690 min Scan# 485
Delta R.T. -0.006 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:105 Resp: 164

Ion	Ratio	Lower	Upper
105	100		
77	142.1	67.3	100.9#
51	243.9	31.0	46.4#
120	0.0	19.8	29.8#



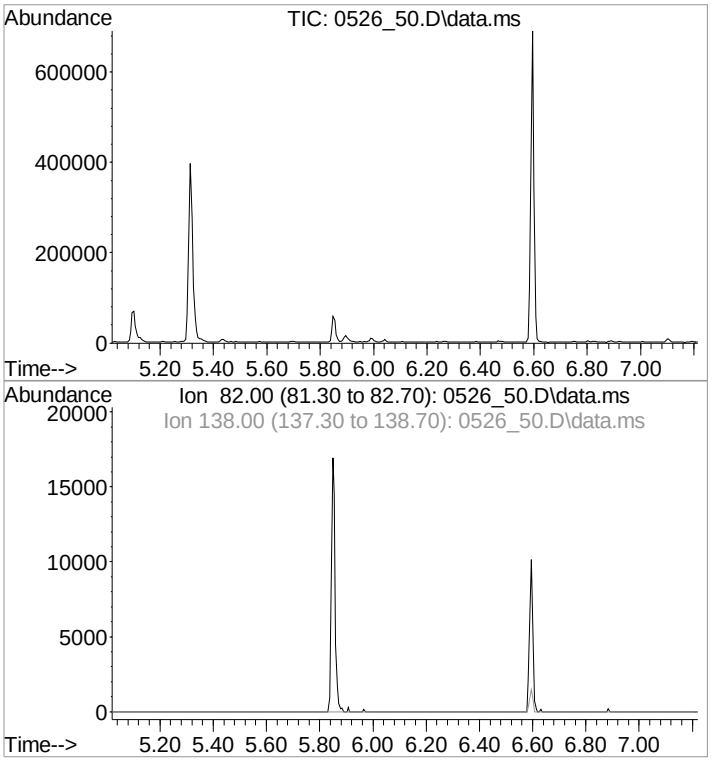


#24
Nitrobenzene
Concen: N.D.
Expected RT: 5.88 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 77

Sig	Exp Ratio
77	100
123	44.1
51	72.6
50	27.3

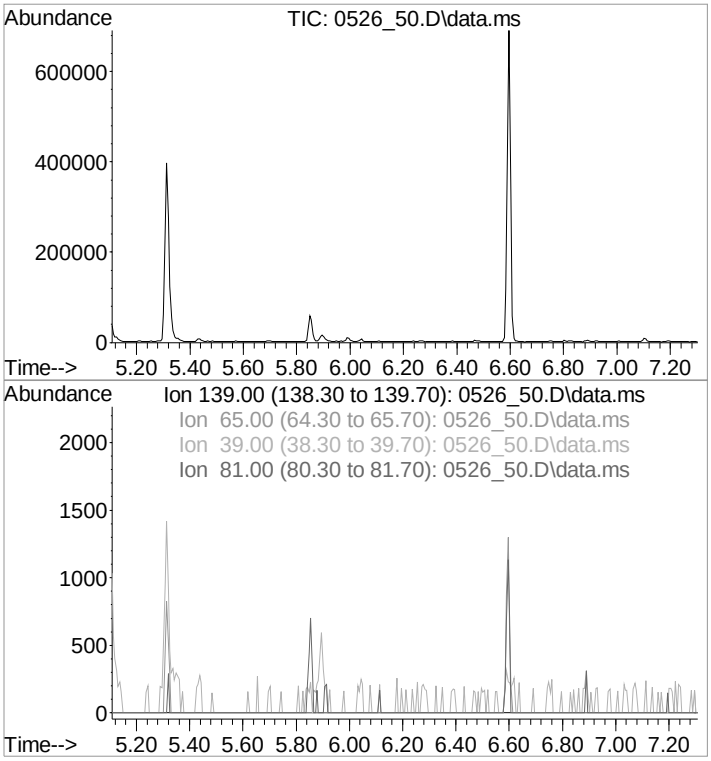


#25
Isophorone
Concen: N.D.
Expected RT: 6.12 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 82

Sig	Exp Ratio
82	100
138	17.1

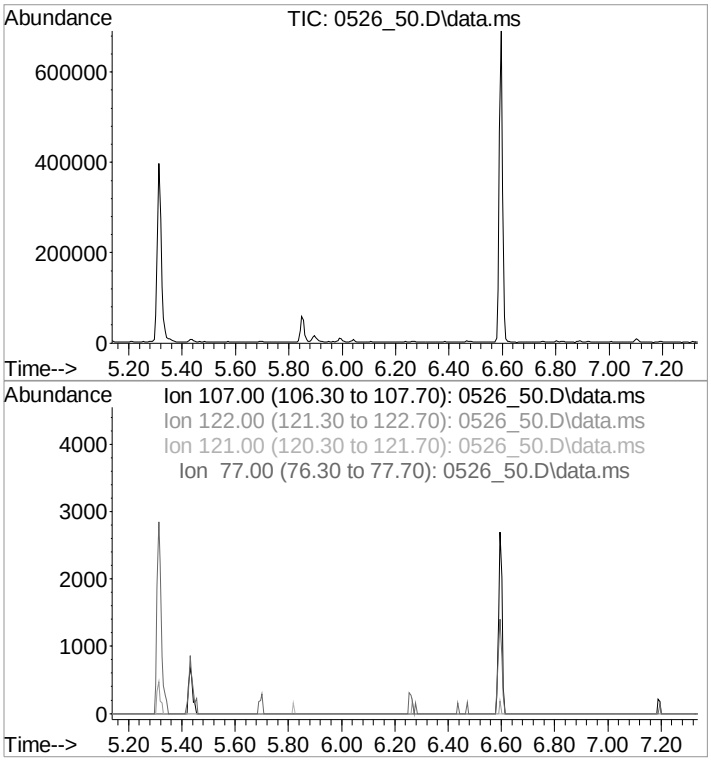


#26
2-Nitrophenol
Concen: N.D.
Expected RT: 6.21 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	64.3
39	56.7
81	46.6

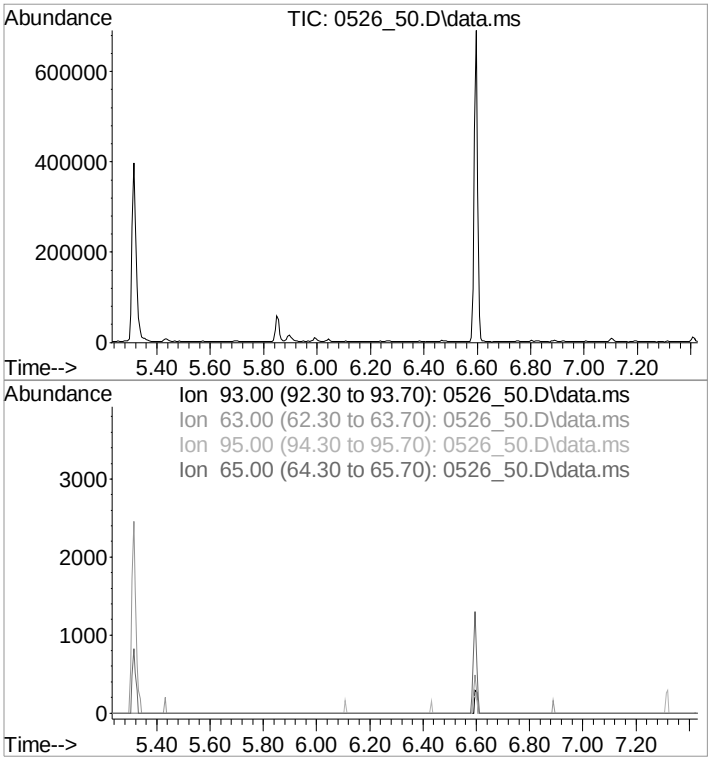


#27
2,4-Dimethylphenol
Concen: N.D.
Expected RT: 6.24 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
122	80.3
121	47.0
77	32.8

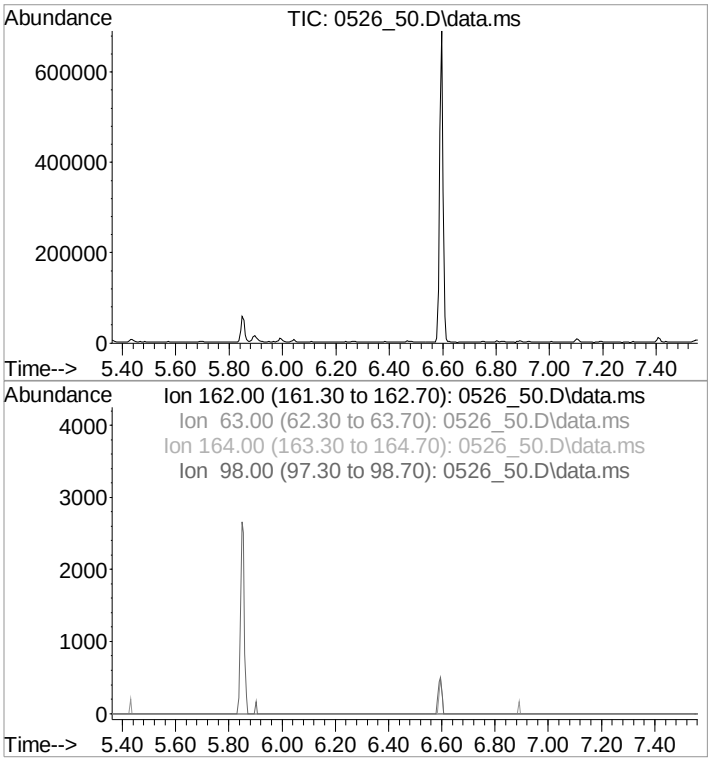


#28
bis(2-Chlorethoxy)methane
Concen: N.D.
Expected RT: 6.33 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 93

Sig	Exp Ratio
93	100
63	85.3
95	32.1
65	24.7

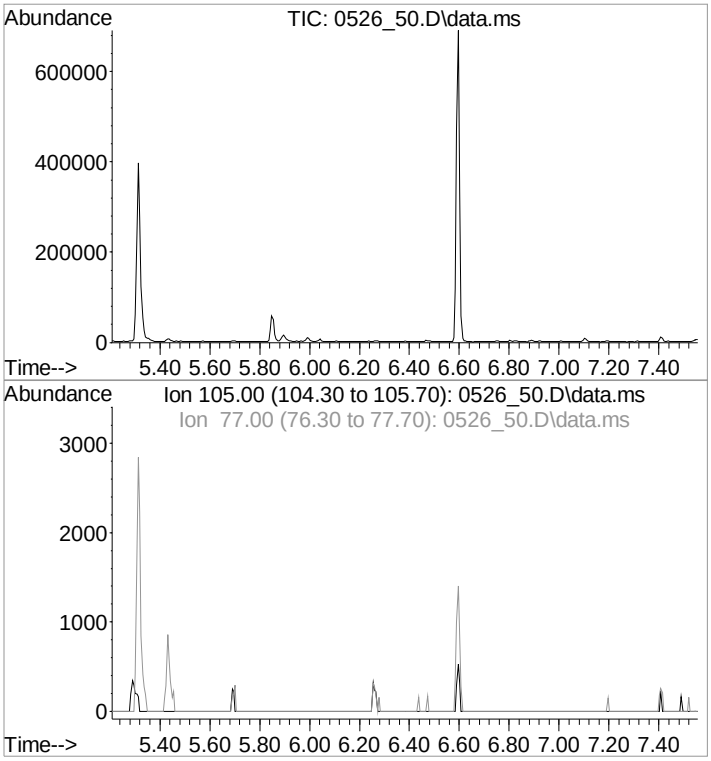


#29
2,4-Dichlorophenol
Concen: N.D.
Expected RT: 6.46 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
63	74.9
164	63.5
98	38.1

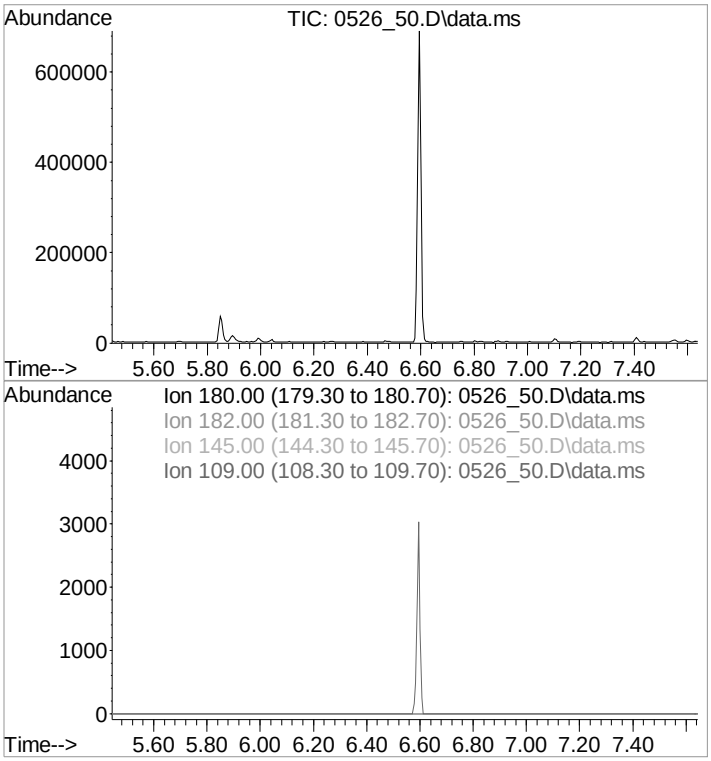


#30
Benzoic Acid
Concen: N.D.
Expected RT: 6.31 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
77	78.2

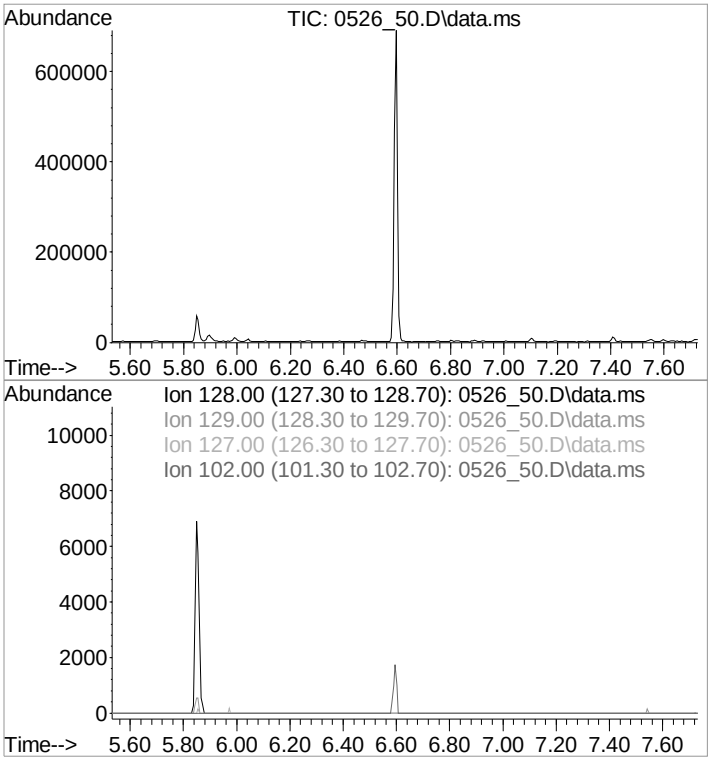


#31
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 6.54 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 180

Sig	Exp Ratio
180	100
182	95.0
145	32.2
109	29.7

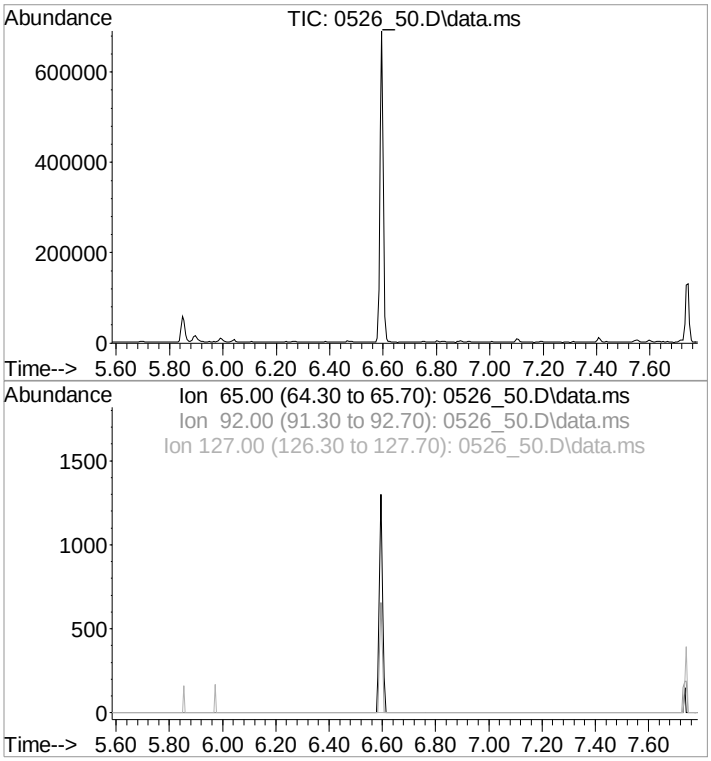


#32
Naphthalene
Concen: N.D.
Expected RT: 6.63 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
129	11.4
127	12.6
102	10.8

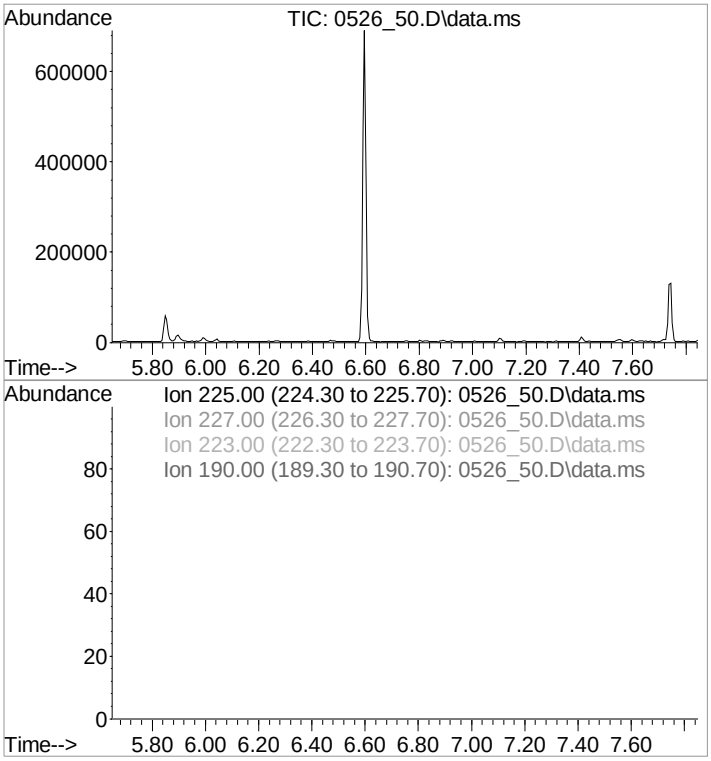


#33
4-Chloroaniline
Concen: N.D.
Expected RT: 6.68 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 65

Sig	Exp Ratio
65	100
92	49.6
127	268.8

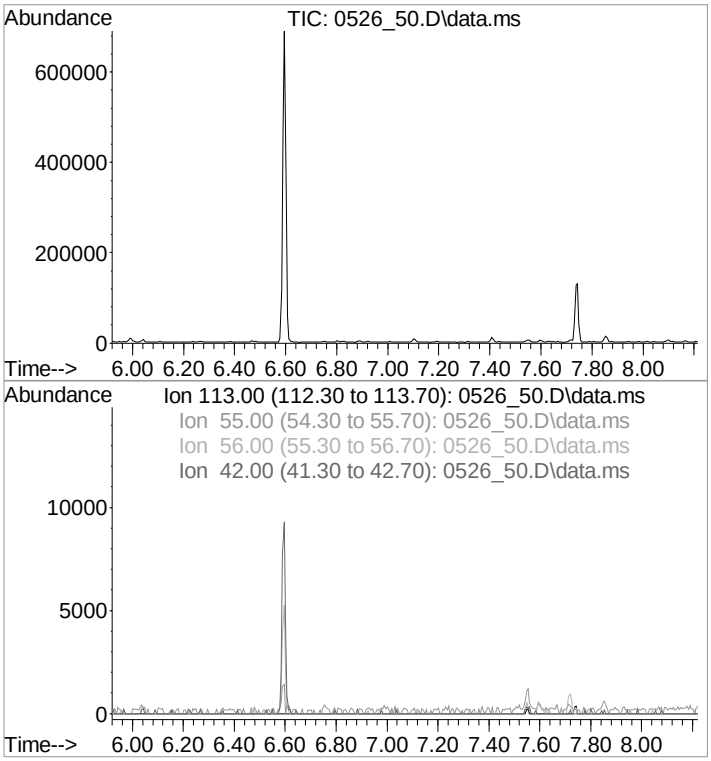


#34
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 6.75 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 225

Sig	Exp Ratio
225	100
227	64.9
223	62.6
190	50.1

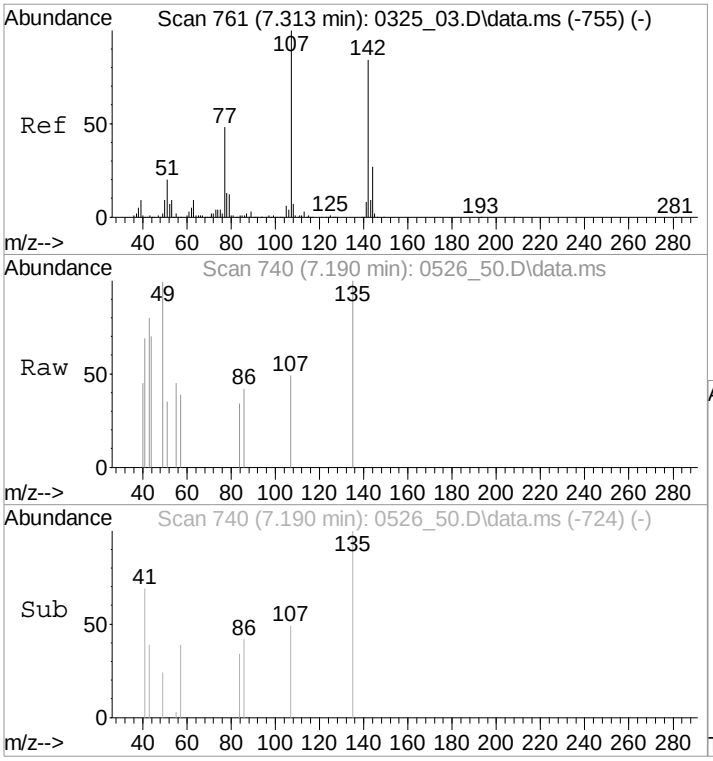


#35
Caprolactam
Concen: N.D.
Expected RT: 7.02 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 113

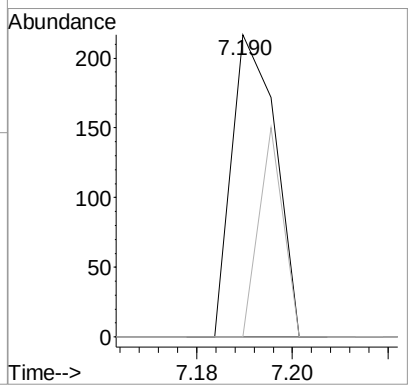
Sig	Exp Ratio
113	100
55	228.2
56	173.0
42	108.4

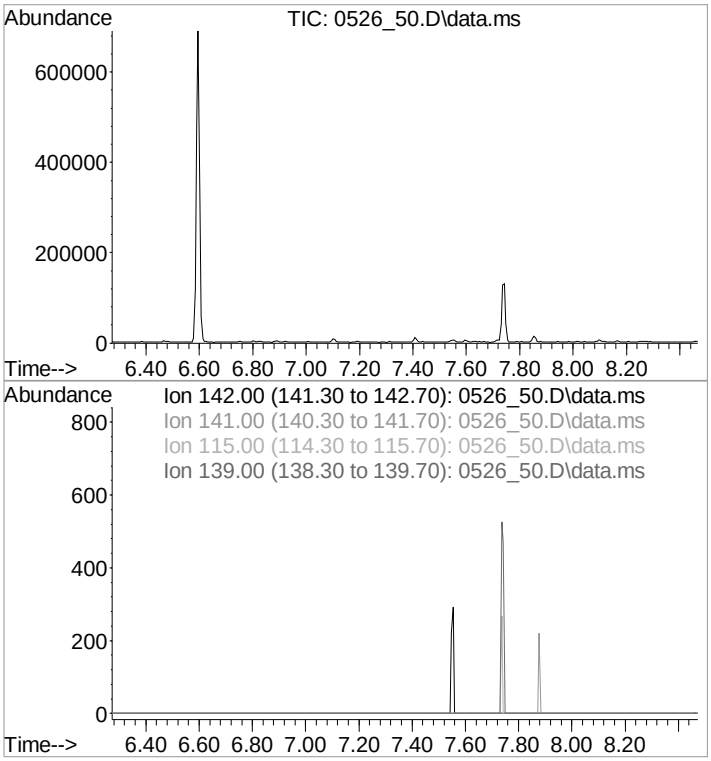


#36
4-Chloro-3-methylphenol
Concen: Below Cal
RT: 7.190 min Scan# 740
Delta R.T. -0.006 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:107 Resp: 137

Ion	Ratio	Lower	Upper
107	100		
142	0.0	56.7	96.7#
77	0.0	35.9	75.9#



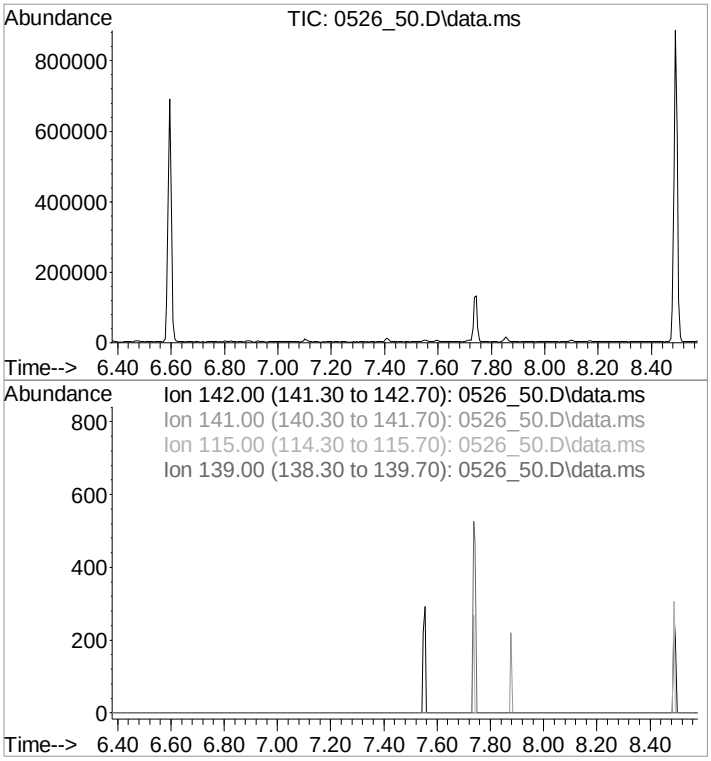


#37
2-Methylnaphthalene
Concen: N.D.
Expected RT: 7.37 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	87.1
115	41.7
139	11.0

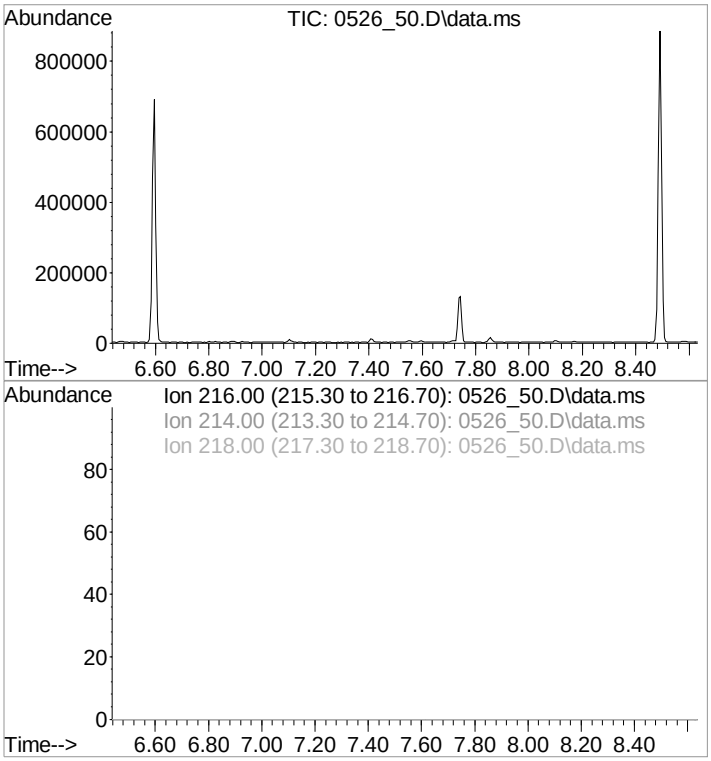


#38
1-Methylnaphthalene
Concen: N.D.
Expected RT: 7.48 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 142

Sig	Exp Ratio
142	100
141	90.1
115	43.8
139	11.9

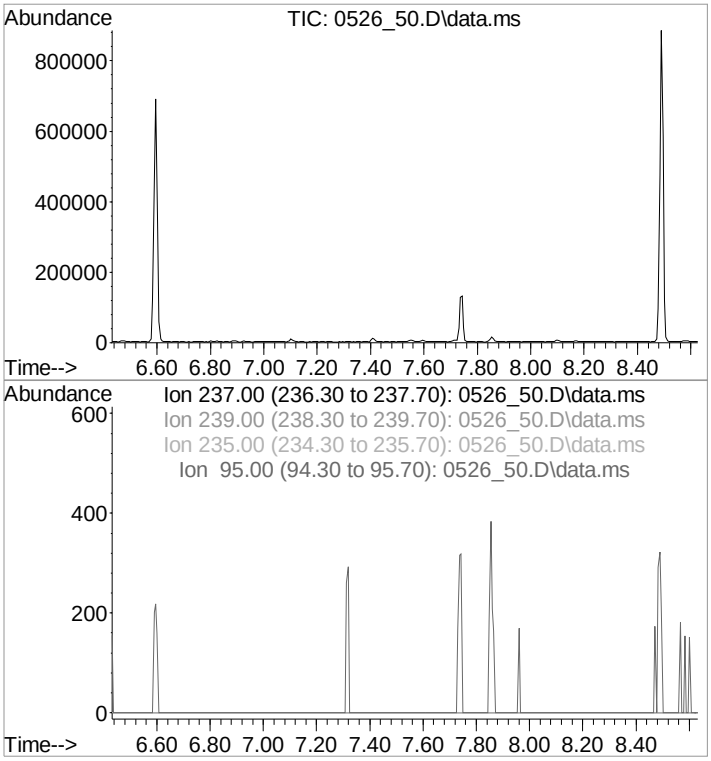


#39
1,2,4,5-Tetrachlorobenzene
Concen: N.D.
Expected RT: 7.54 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 216

Sig	Exp Ratio
216	100
214	80.5
218	48.2

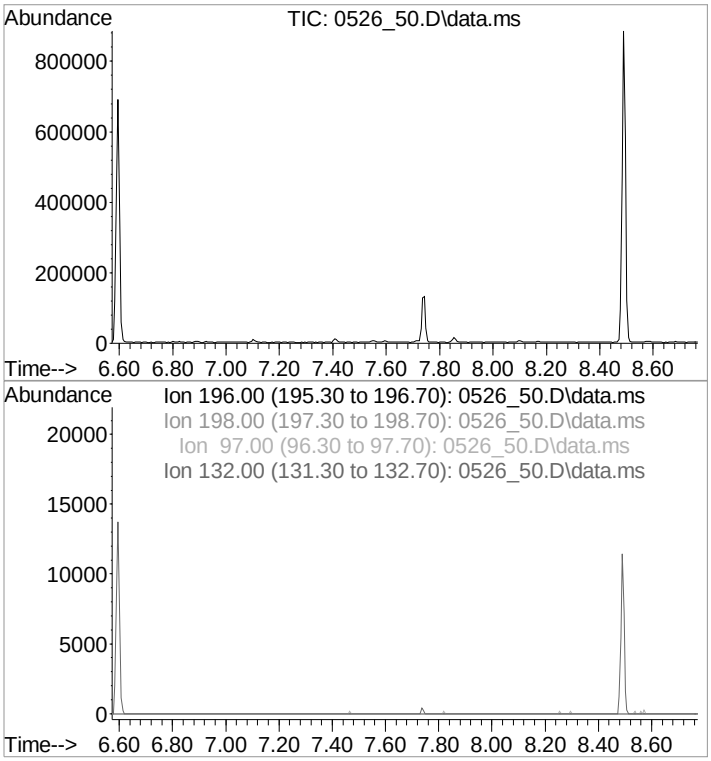


#41
Hexachlorocyclopentadiene
Concen: N.D.
Expected RT: 7.53 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 237

Sig	Exp Ratio
237	100
239	62.8
235	63.7
95	27.6

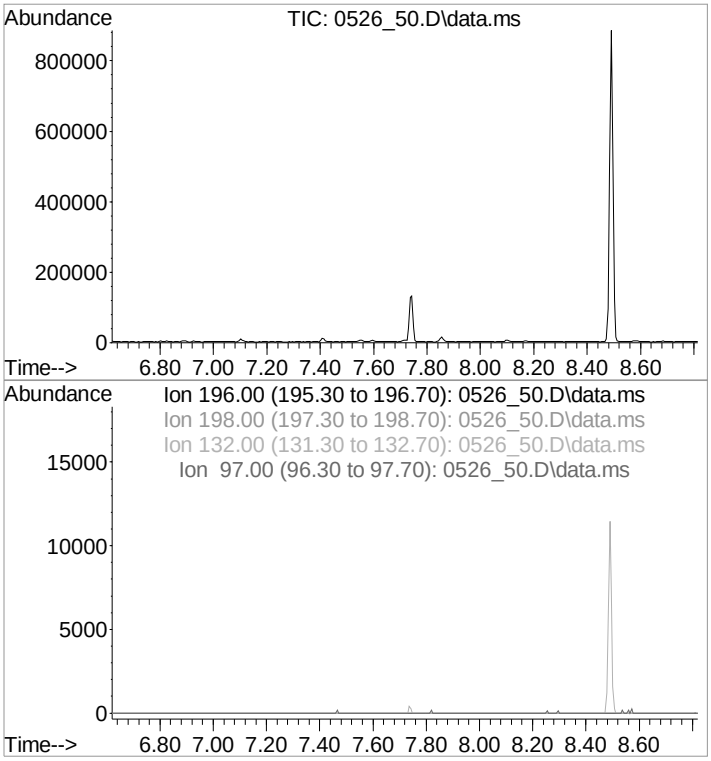


#42
2,4,6-Trichlorophenol
Concen: N.D.
Expected RT: 7.67 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	97.6
97	68.6
132	46.8

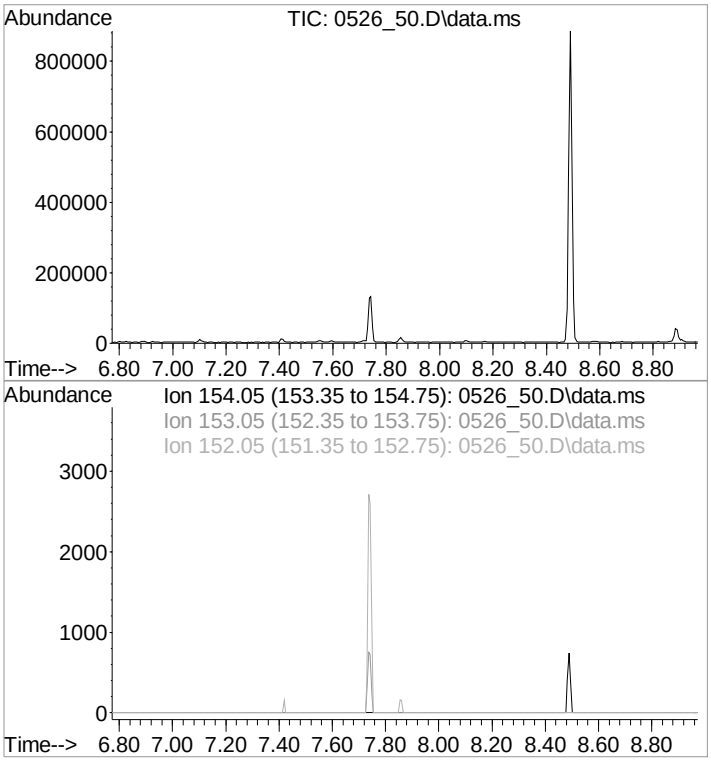


#43
2,4,5-Trichlorophenol
Concen: N.D.
Expected RT: 7.72 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 196

Sig	Exp Ratio
196	100
198	96.6
132	31.4
97	66.9

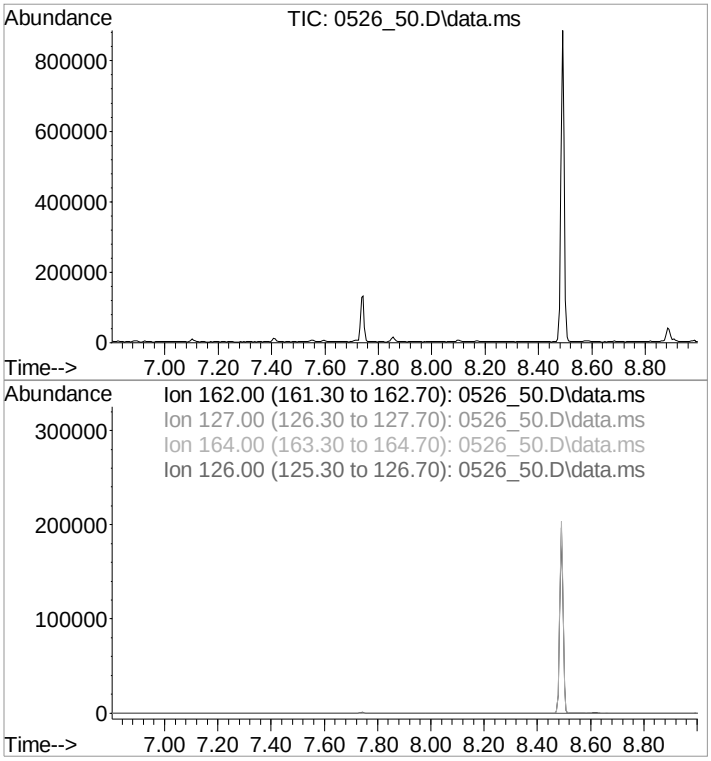


#45
Biphenyl
Concen: N.D.
Expected RT: 7.87 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 154

Sig	Exp Ratio
154	100
153	40.0
152	27.5

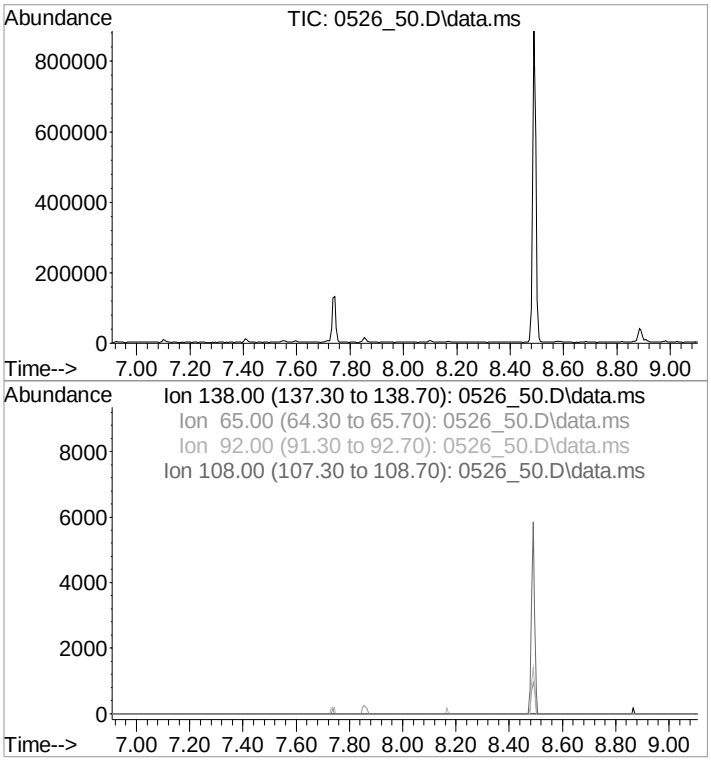


#46
2-Chloronaphthalene
Concen: N.D.
Expected RT: 7.90 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 162

Sig	Exp Ratio
162	100
127	39.1
164	32.7
126	19.9

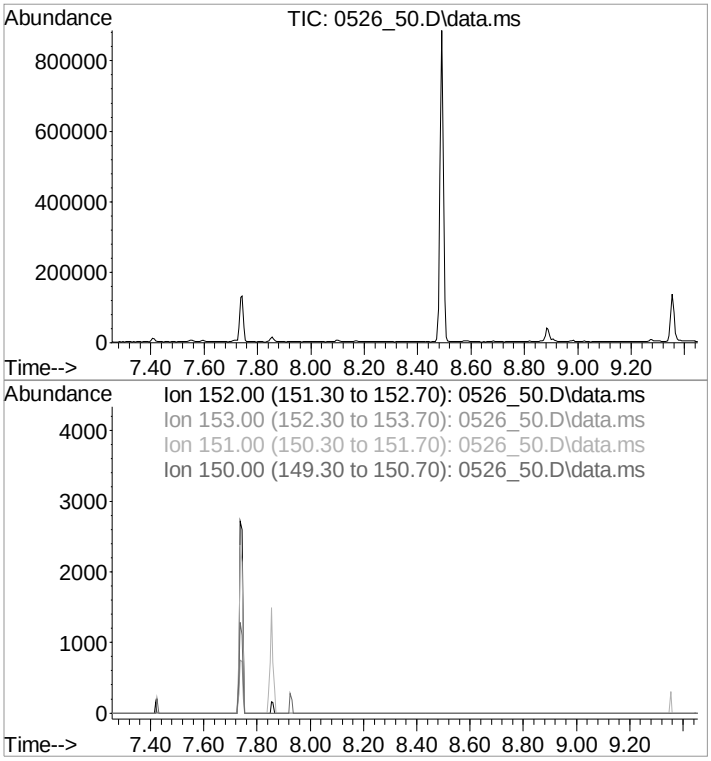


#47
2-Nitroaniline
Concen: N.D.
Expected RT: 8.01 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	111.6
92	66.3
108	22.6

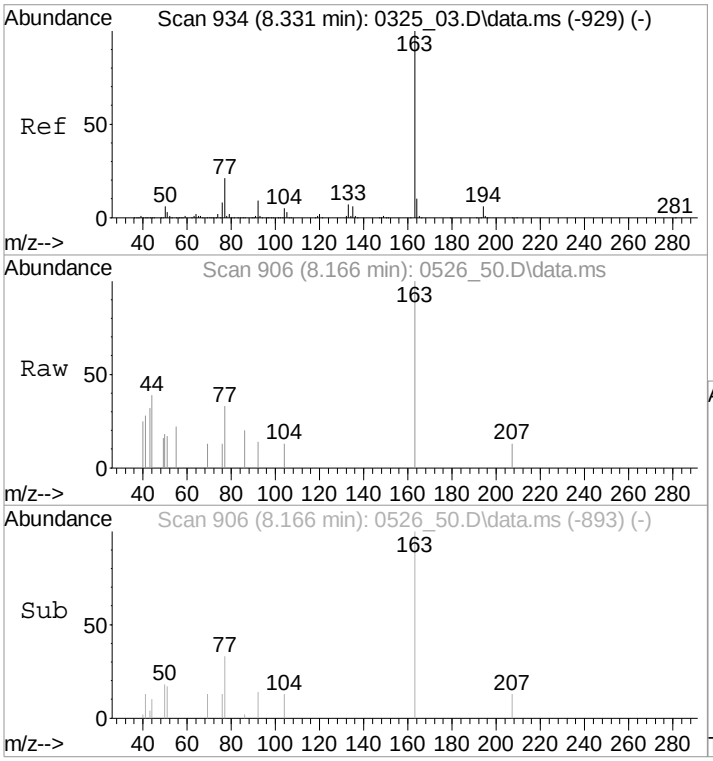


#48
Acenaphthylene
Concen: N.D.
Expected RT: 8.35 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 152

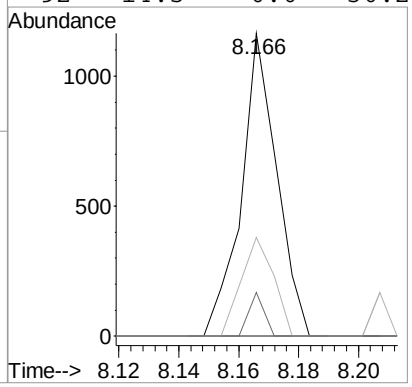
Sig	Exp Ratio
152	100
153	13.3
151	19.9
150	14.4

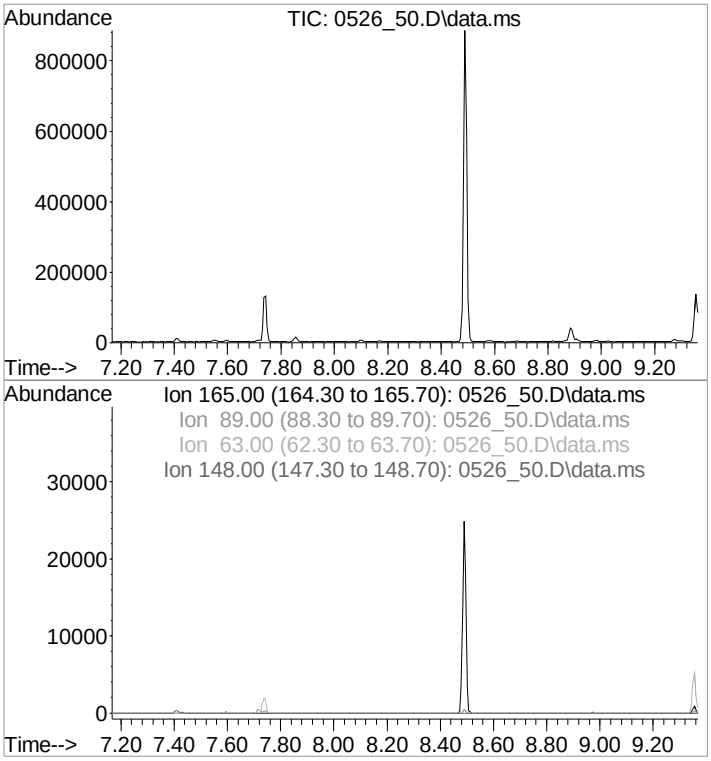


#49
Dimethyl phthalate
Concen: 0.1628460 ppb
RT: 8.166 min Scan# 906
Delta R.T. -0.023 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:163 Resp: 956

Ion	Ratio	Lower	Upper
163	100		
164	0.0	0.0	29.6
77	32.5	0.9	40.9
92	14.5	0.0	30.2



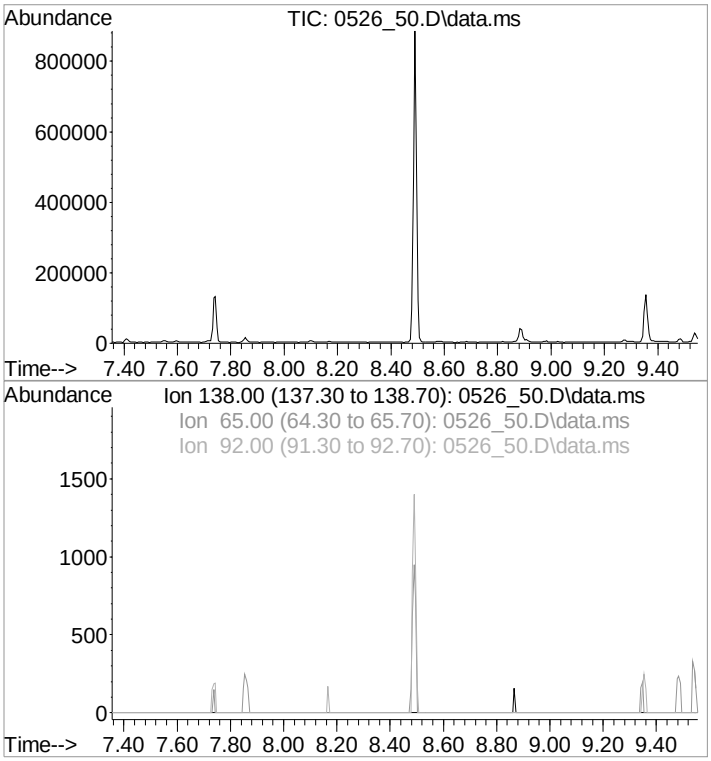


#50
2,6-Dinitrotoluene
Concen: N.D.
Expected RT: 8.27 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	61.1
63	69.0
148	20.7

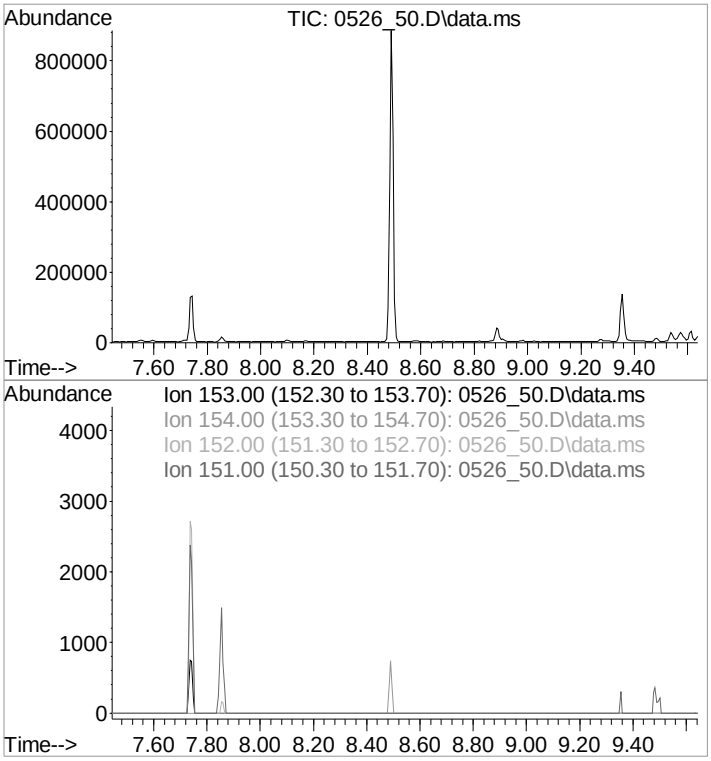


#51
3-Nitroaniline
Concen: N.D.
Expected RT: 8.45 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 138

Sig	Exp Ratio
138	100
65	169.6
92	124.6

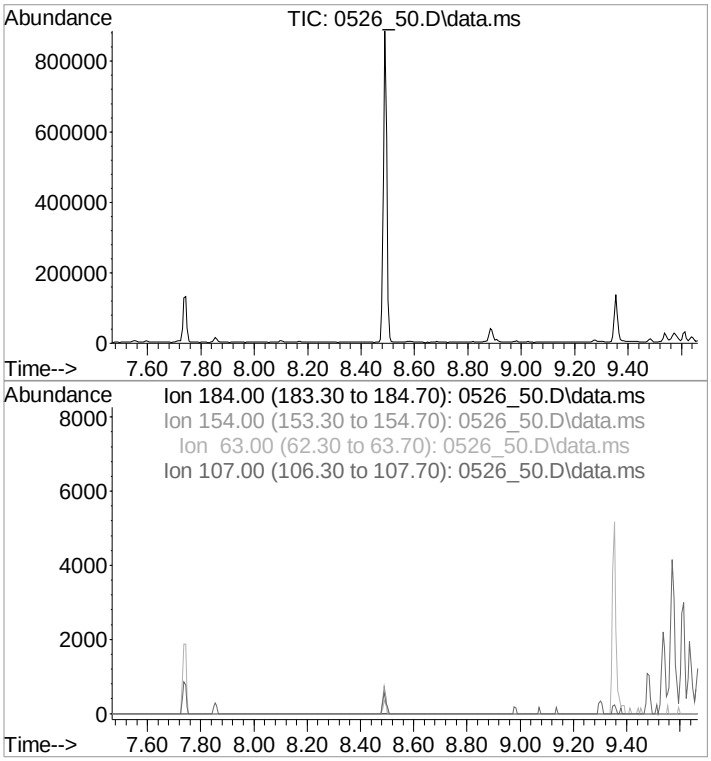


#52
Acenaphthene
Concen: N.D.
Expected RT: 8.54 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 153

Sig	Exp Ratio
153	100
154	92.6
152	46.9
151	17.7

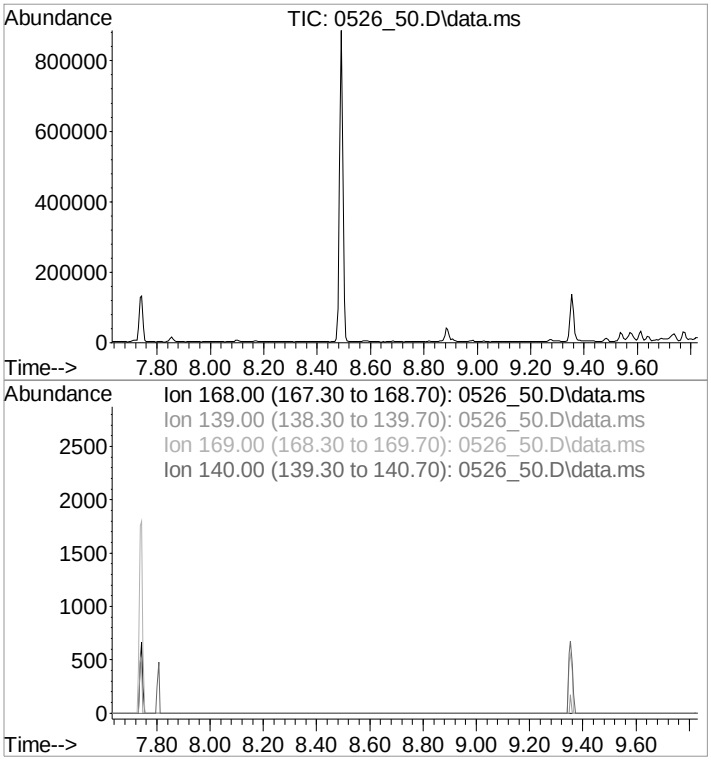


#53
2,4-Dinitrophenol
Concen: N.D.
Expected RT: 8.56 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
154	67.1
63	65.9
107	45.9

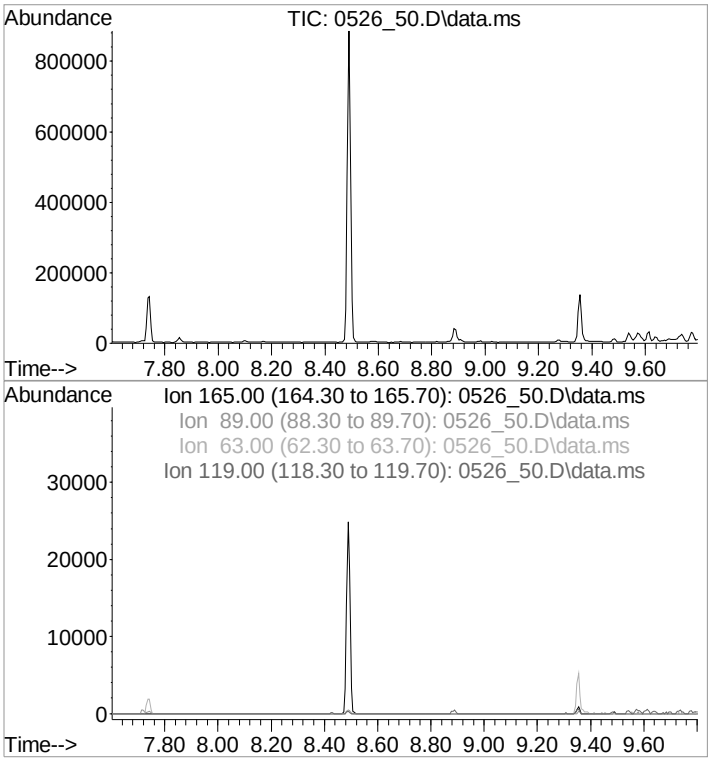


#54
Dibenzofuran
Concen: N.D.
Expected RT: 8.73 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 168

Sig	Exp Ratio
168	100
139	41.1
169	13.1
140	5.8

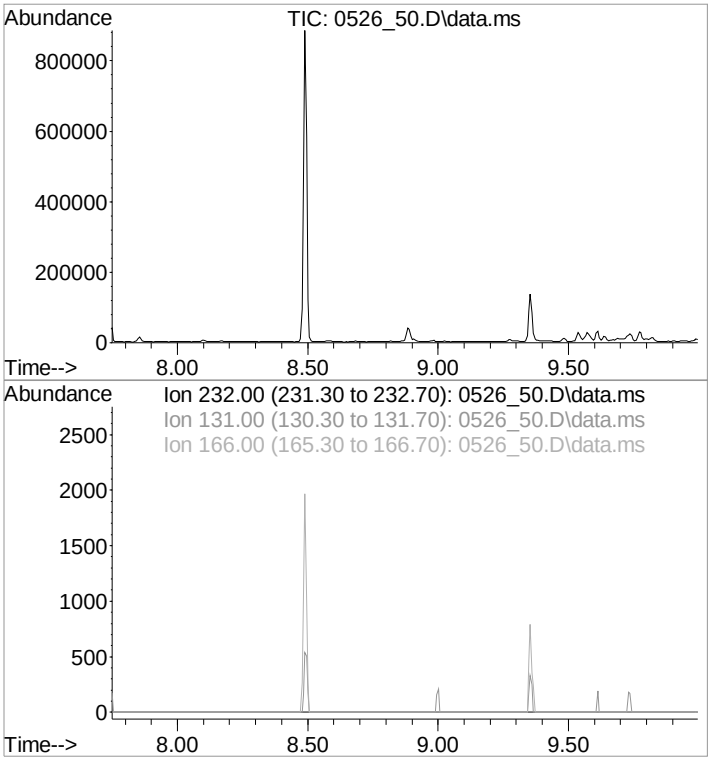


#55
2,4-Dinitrotoluene
Concen: N.D.
Expected RT: 8.70 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 165

Sig	Exp Ratio
165	100
89	80.5
63	58.2
119	21.9

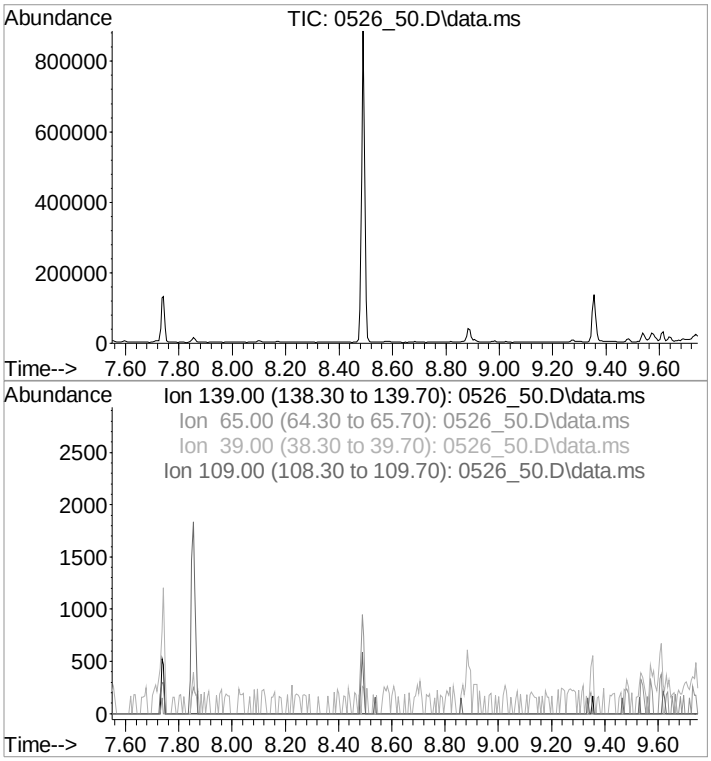


#56
2,3,4,6-Tetrachlorophenol
Concen: N.D.
Expected RT: 8.85 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 232

Sig	Exp Ratio
232	100
131	56.7
166	36.2

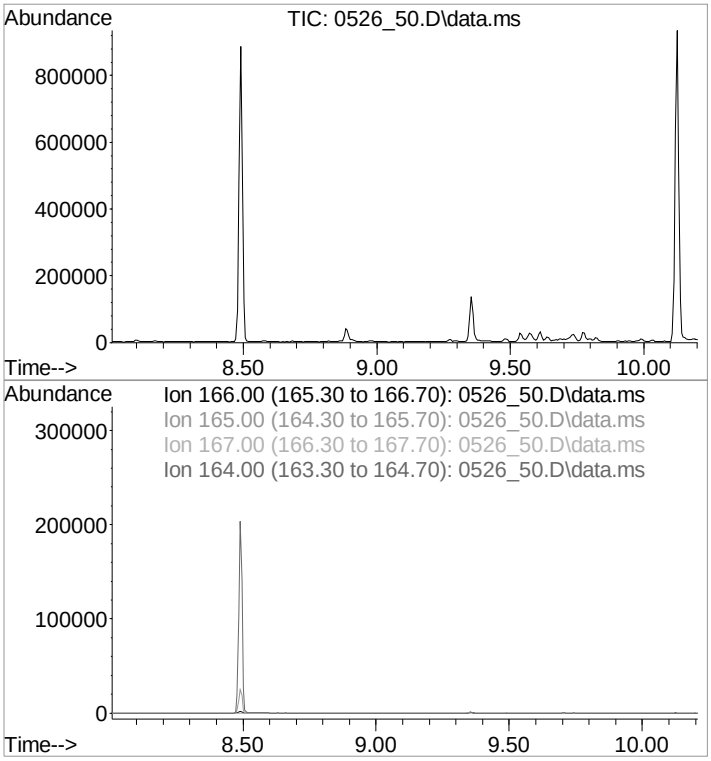


#57
4-Nitrophenol
Concen: N.D.
Expected RT: 8.65 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 139

Sig	Exp Ratio
139	100
65	116.1
39	77.2
109	84.3

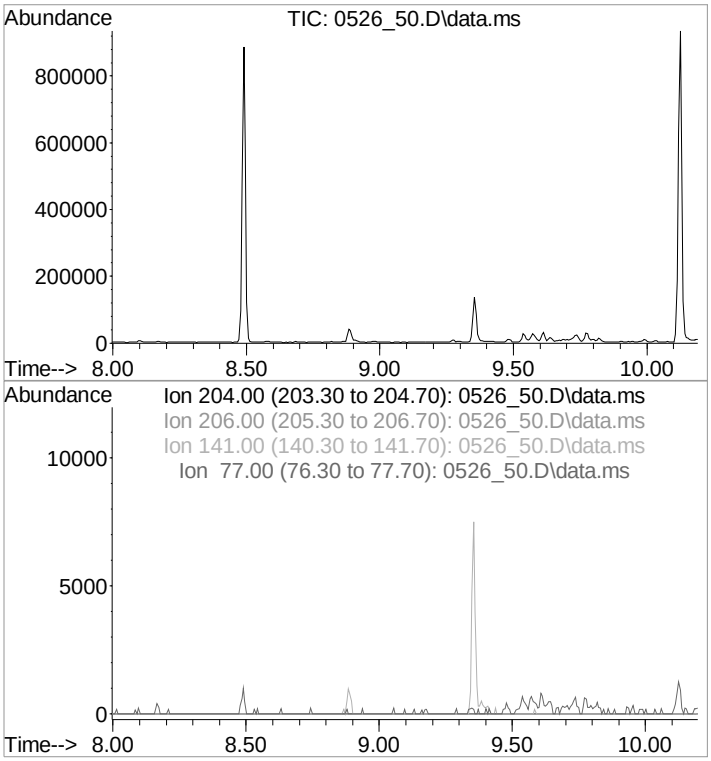


#58
Fluorene
Concen: N.D.
Expected RT: 9.11 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
165	95.7
167	13.2
164	13.5

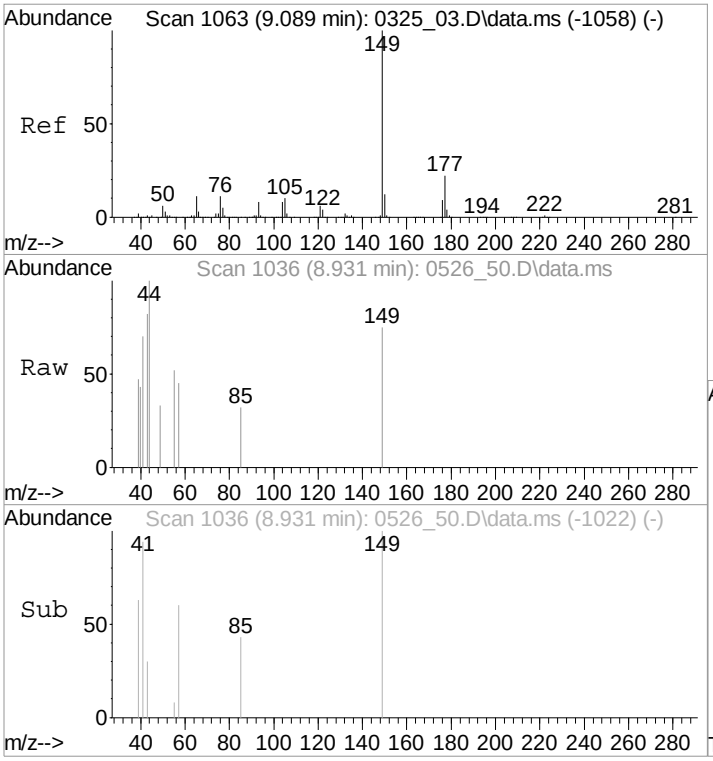


#59
4-Chlorophenyl-phenylether
Concen: N.D.
Expected RT: 9.10 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 204

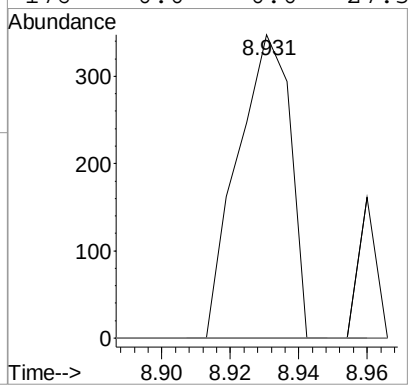
Sig	Exp Ratio
204	100
206	32.5
141	67.2
77	47.0

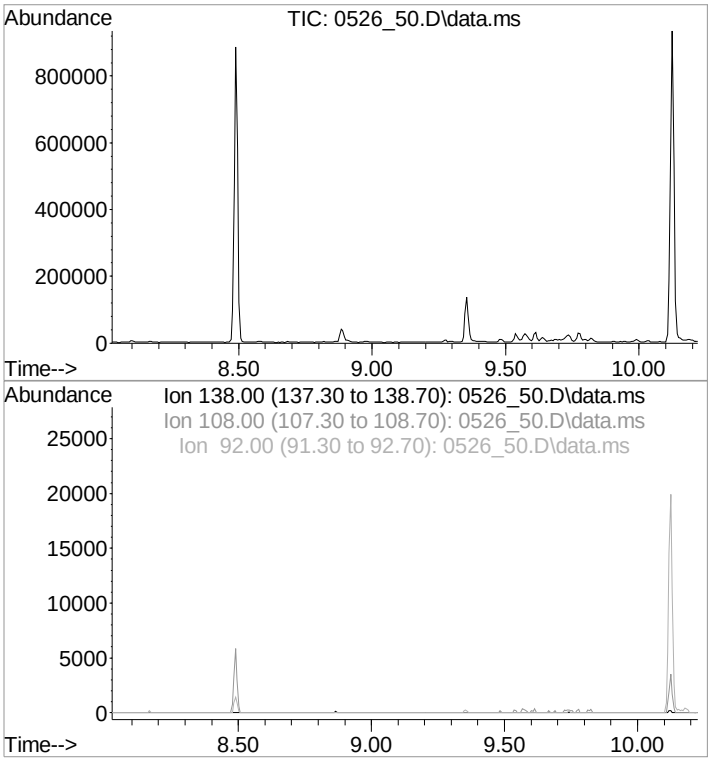


#60
Diethyl phthalate
Concen: Below Cal
RT: 8.931 min Scan# 1036
Delta R.T. -0.018 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:149 Resp: 371

Ion	Ratio	Lower	Upper
149	100		
177	0.0	0.0	39.8
150	0.0	0.0	32.1
176	0.0	0.0	27.3



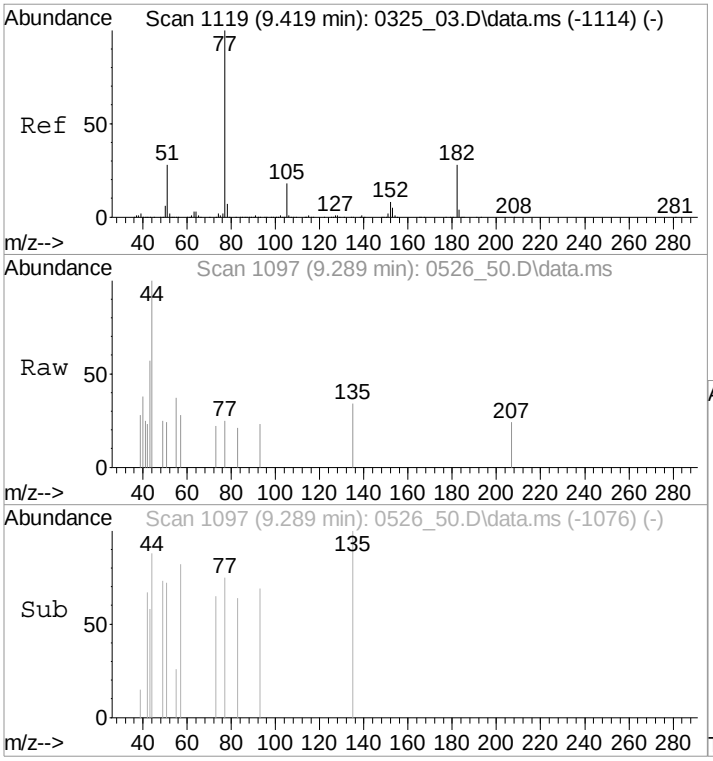


#61
4-Nitroaniline
Concen: N.D.
Expected RT: 9.12 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 138

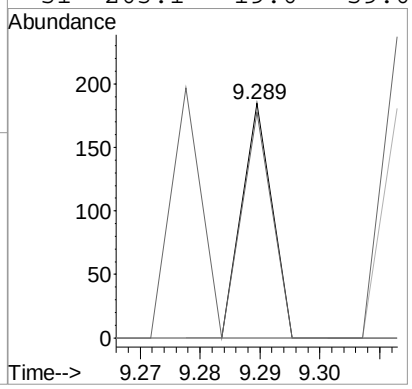
Sig	Exp Ratio
138	100
108	81.6
92	51.9

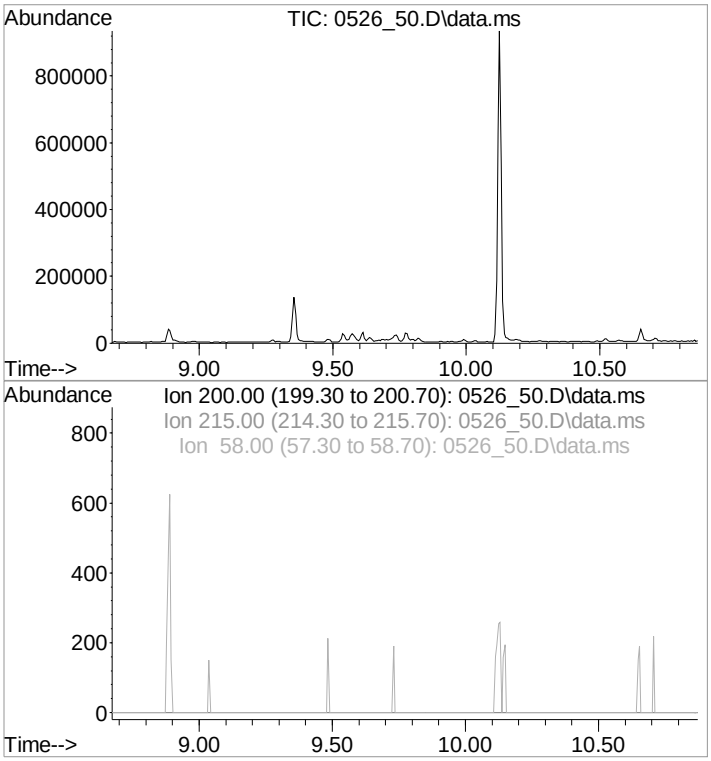


#62
Azobenzene
Concen: Below Cal
RT: 9.289 min Scan# 1097
Delta R.T. 0.024 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 77 Resp: 65

Ion	Ratio	Lower	Upper
77	100		
182	0.0	3.3	43.3#
105	0.0	0.0	35.9
51	203.1	19.0	59.0#



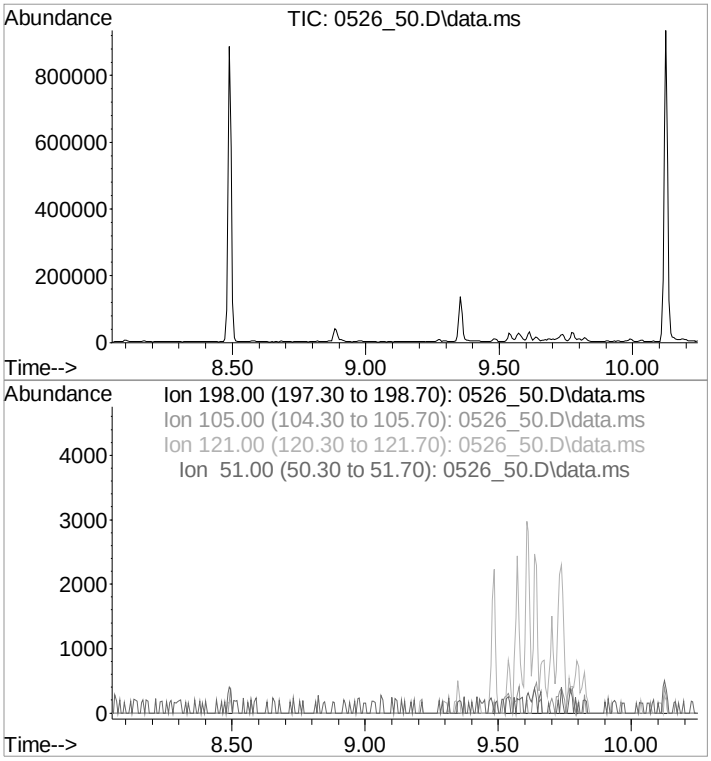


#63
Atrazine
Concen: N.D.
Expected RT: 9.77 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 200

Sig	Exp Ratio
200	100
215	47.1
58	80.3

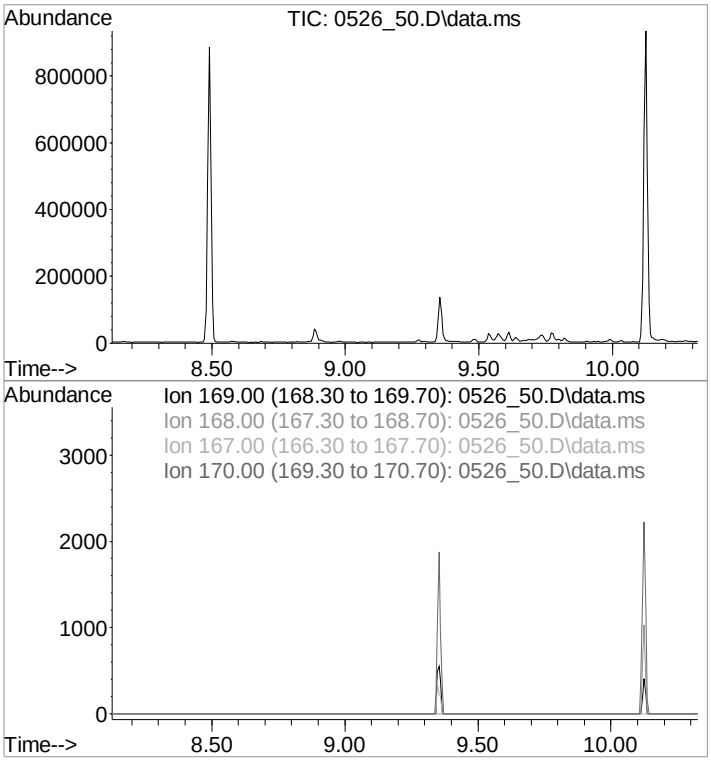


#65
4,6-Dinitro-2-methylphenol
Concen: N.D.
Expected RT: 9.15 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 198

Sig	Exp Ratio
198	100
105	45.7
121	44.0
51	53.3

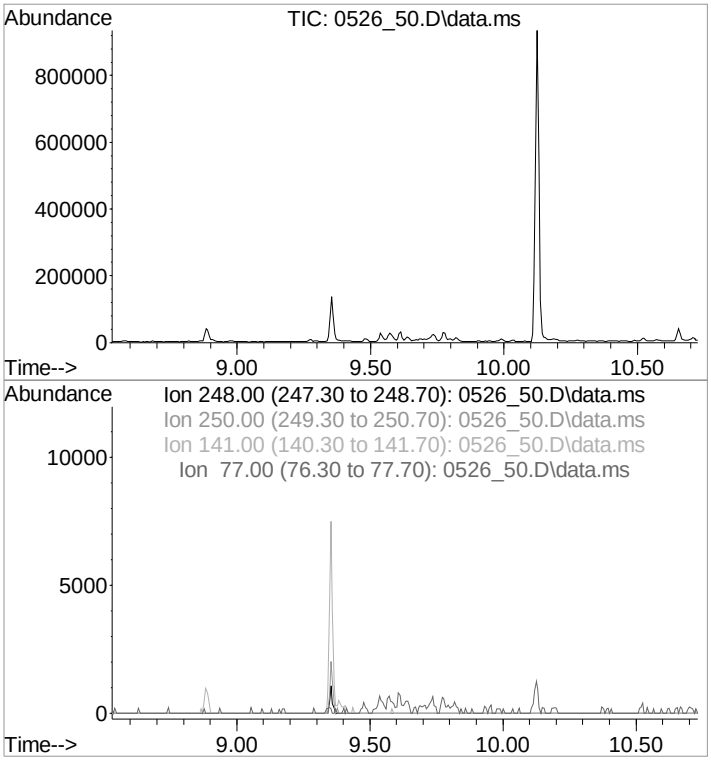


#66
N-Nitrosodiphenylamine
Concen: N.D.
Expected RT: 9.22 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 169

Sig	Exp Ratio
169	100
168	63.6
167	34.5
170	12.6

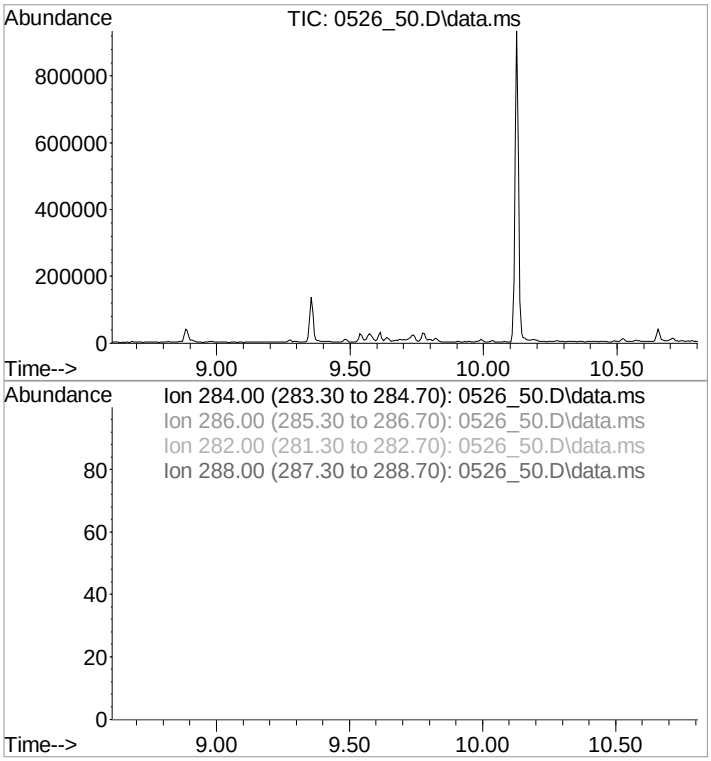


#68
4-Bromophenyl-phenylether
Concen: N.D.
Expected RT: 9.63 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 248

Sig	Exp Ratio
248	100
250	96.0
141	100.7
77	88.4

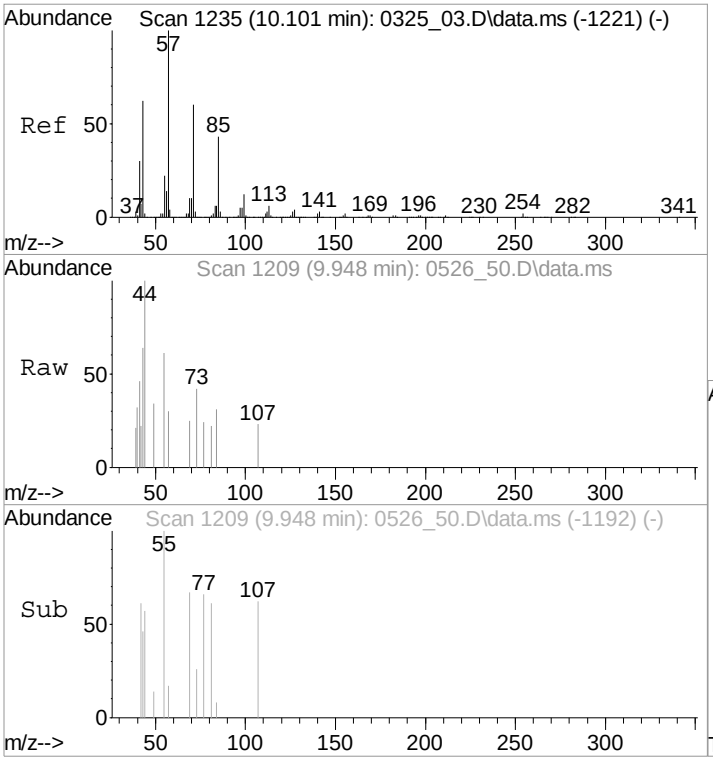


#69
Hexachlorobenzene
Concen: N.D.
Expected RT: 9.71 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 284

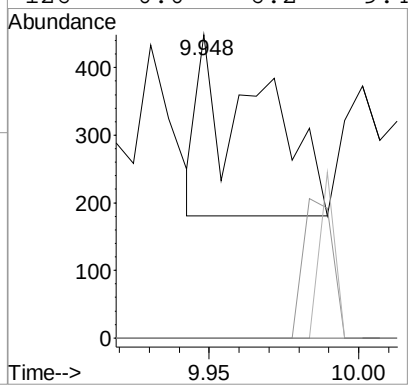
Sig	Exp Ratio
284	100
286	81.5
282	53.0
288	33.1

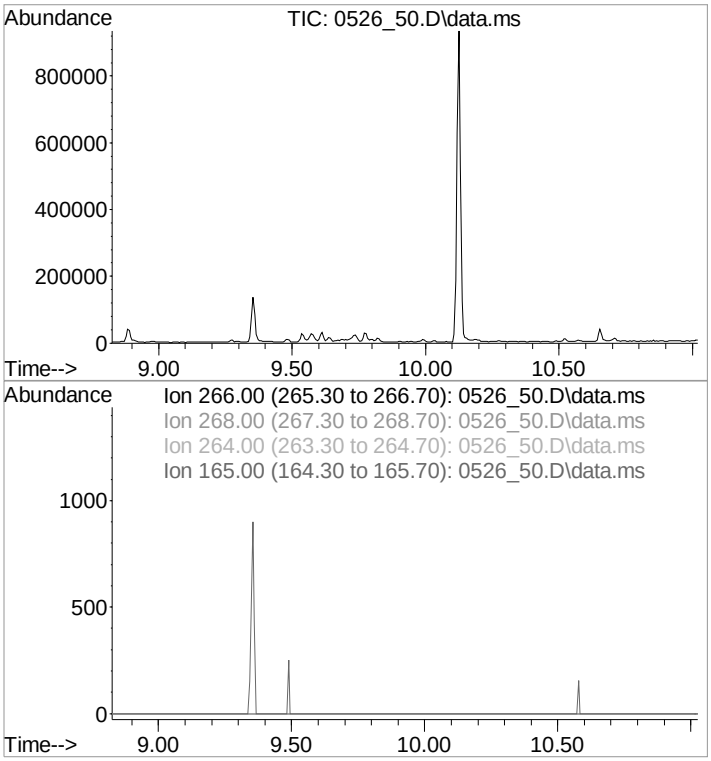


#70
n-octadecane
Concen: 0.2446915 ppb
RT: 9.948 min Scan# 1209
Delta R.T. 0.000 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 55 Resp: 385

Ion	Ratio	Lower	Upper
55	100		
56	0.0	50.4	75.6#
70	0.0	25.2	37.8#
126	0.0	6.2	9.4#



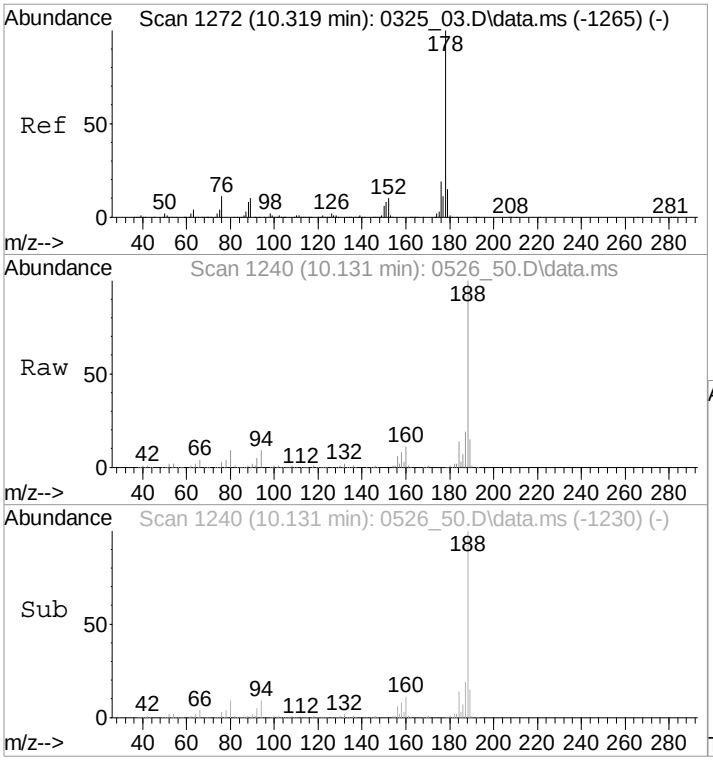


#71
Pentachlorophenol
Concen: N.D.
Expected RT: 9.92 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 266

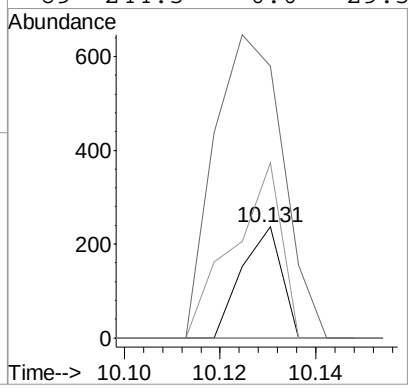
Sig	Exp Ratio
266	100
268	66.1
264	63.0
165	56.0

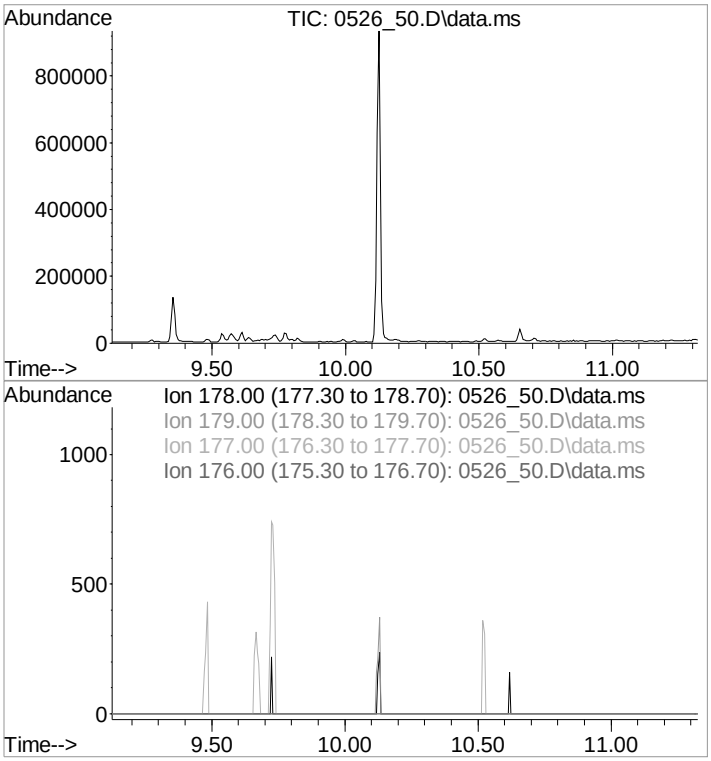


#72
Phenanthrene
Concen: Below Cal
RT: 10.131 min Scan# 1240
Delta R.T. -0.041 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:178 Resp: 138

Ion	Ratio	Lower	Upper
178	100		
179	157.4	0.0	34.7#
152	0.0	0.0	30.3
89	244.3	0.0	29.3#



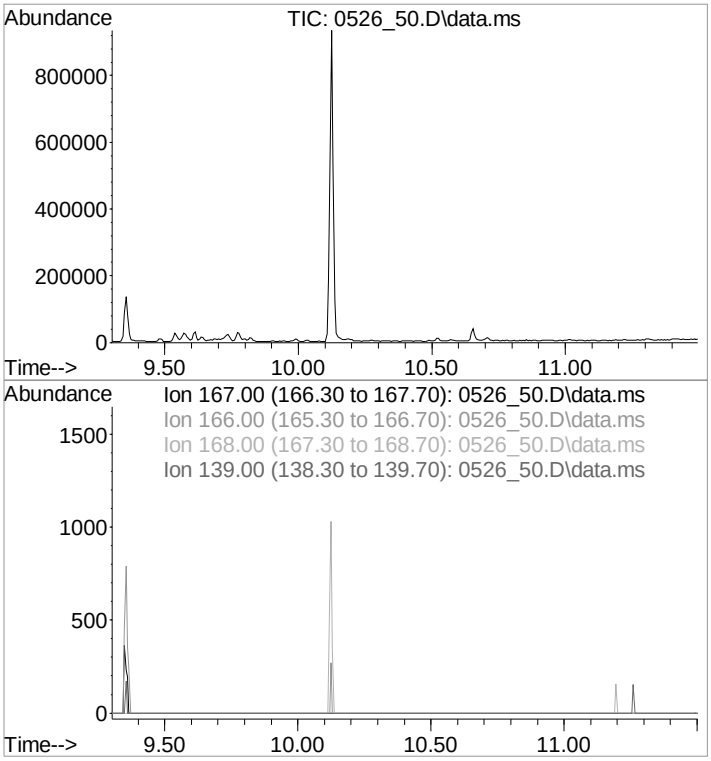


#73
Anthracene
Concen: N.D.
Expected RT: 10.22 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 178

Sig	Exp Ratio
178	100
179	15.6
177	9.9
176	18.6

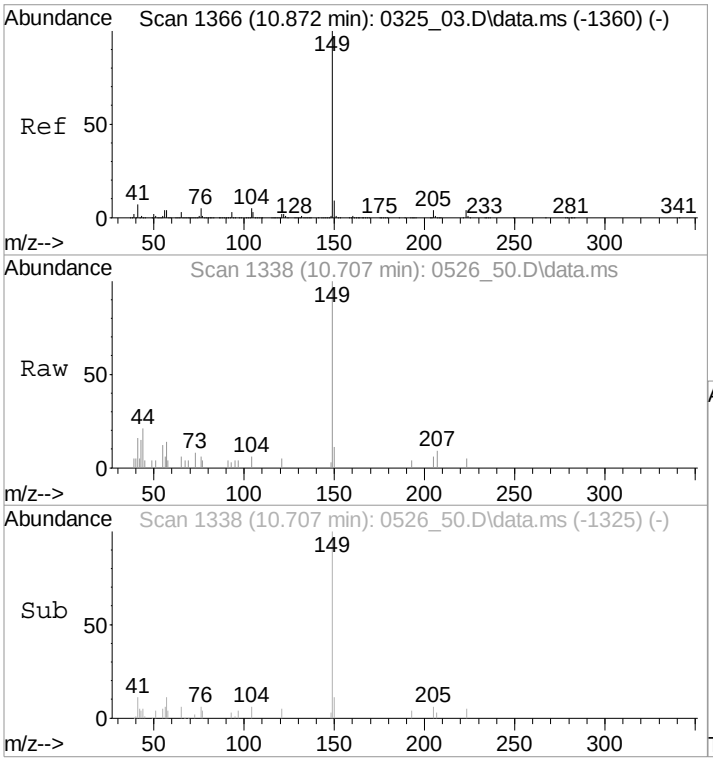


#74
Carbazole
Concen: N.D.
Expected RT: 10.40 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 167

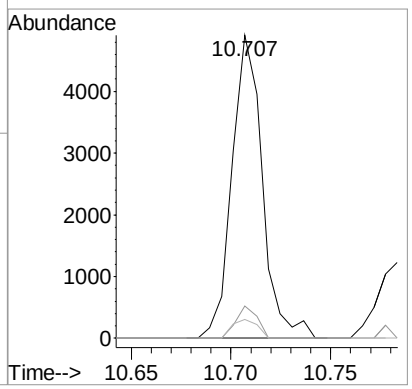
Sig	Exp Ratio
167	100
166	20.9
168	13.5
139	13.7

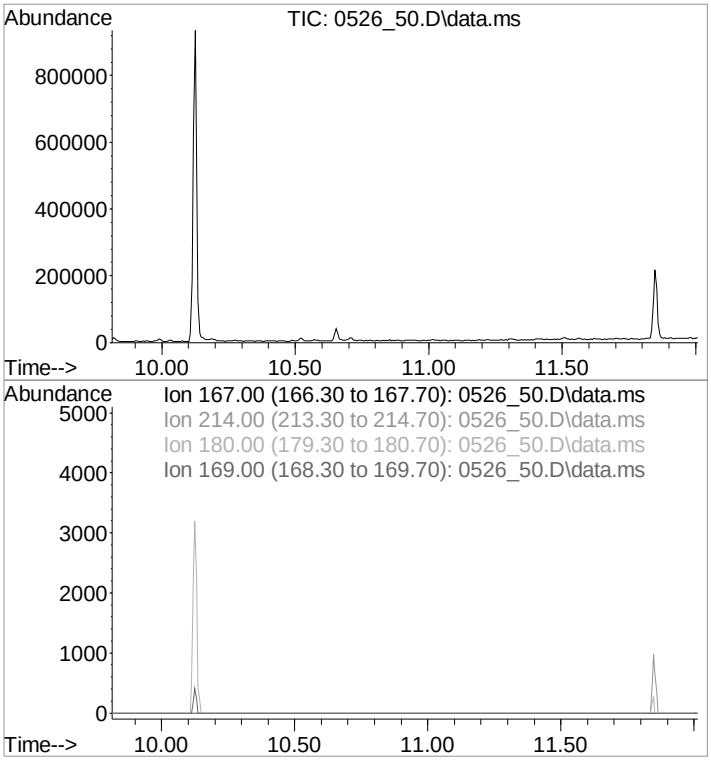


#75
Di-n-butyl phthalate
Concen: 0.4130850 ppb
RT: 10.707 min Scan# 1338
Delta R.T. -0.023 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:149 Resp: 5203

Ion	Ratio	Lower	Upper
149	100		
150	10.6	0.0	28.7
104	6.2	0.0	25.3



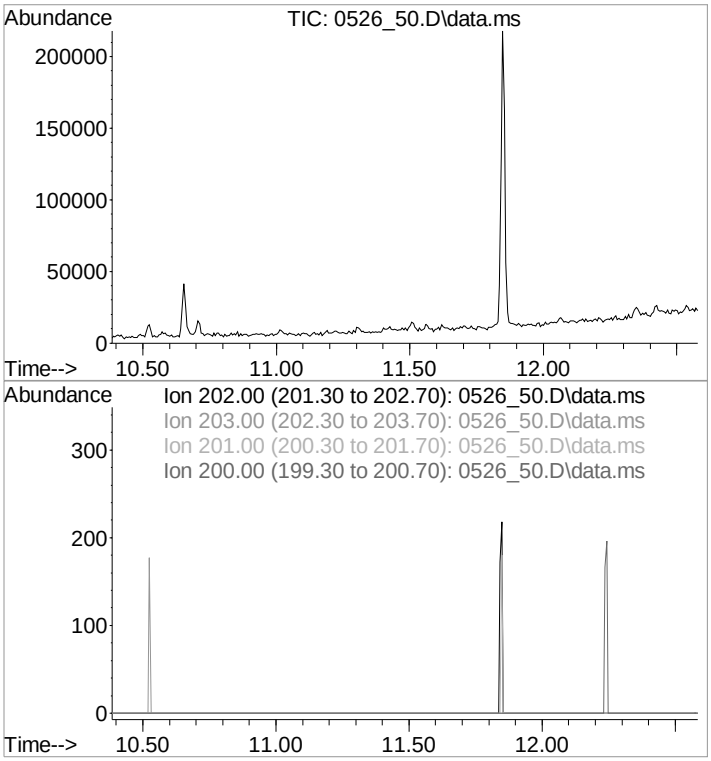


#76
2-nitrodiphenylamine
Concen: N.D.
Expected RT: 10.91 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 167

Sig	Exp Ratio
167	100
214	78.7
180	33.7
169	32.9

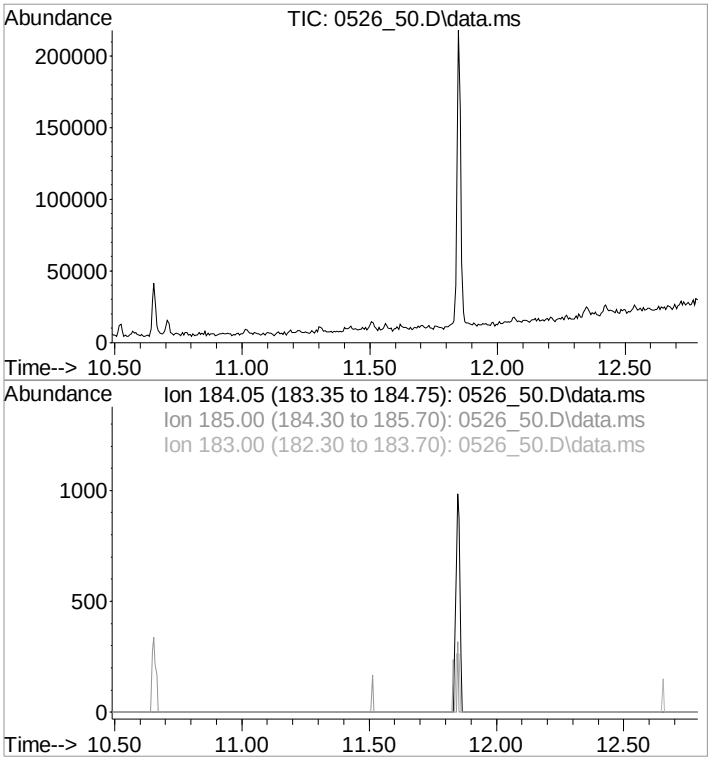


#77
Fluoranthene
Concen: N.D.
Expected RT: 11.48 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 202

Sig	Exp Ratio
202	100
203	17.2
201	14.6
200	20.1

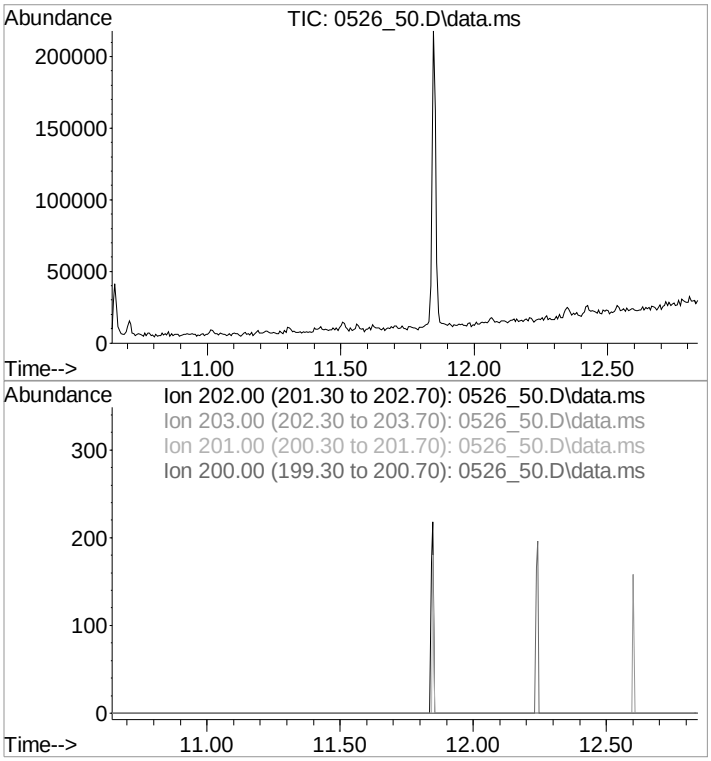


#79
Benzidine
Concen: N.D.
Expected RT: 11.59 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 184

Sig	Exp Ratio
184	100
185	13.4
183	11.7

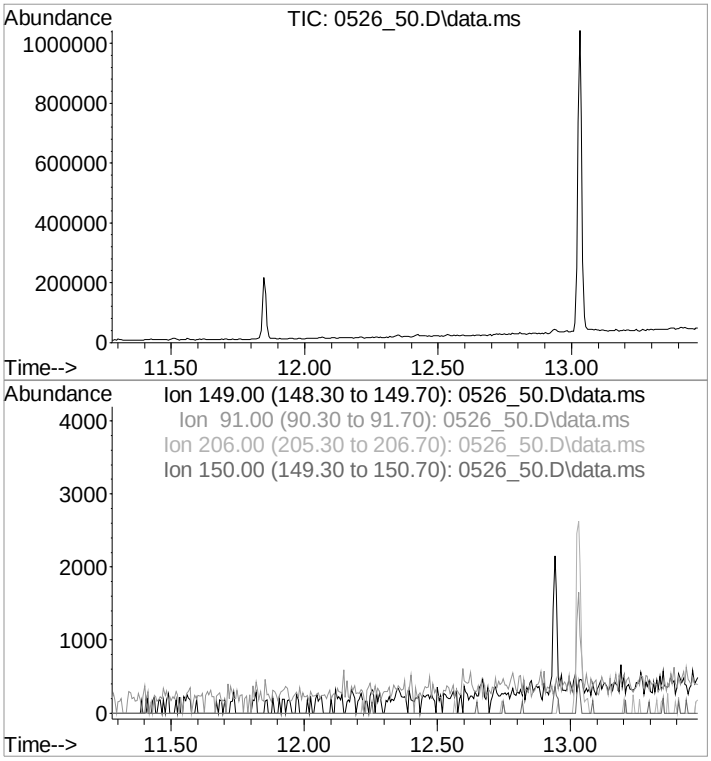


#80
Pyrene
Concen: N.D.
Expected RT: 11.74 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 202

Sig	Exp Ratio
202	100
203	17.4
201	17.1
200	20.0

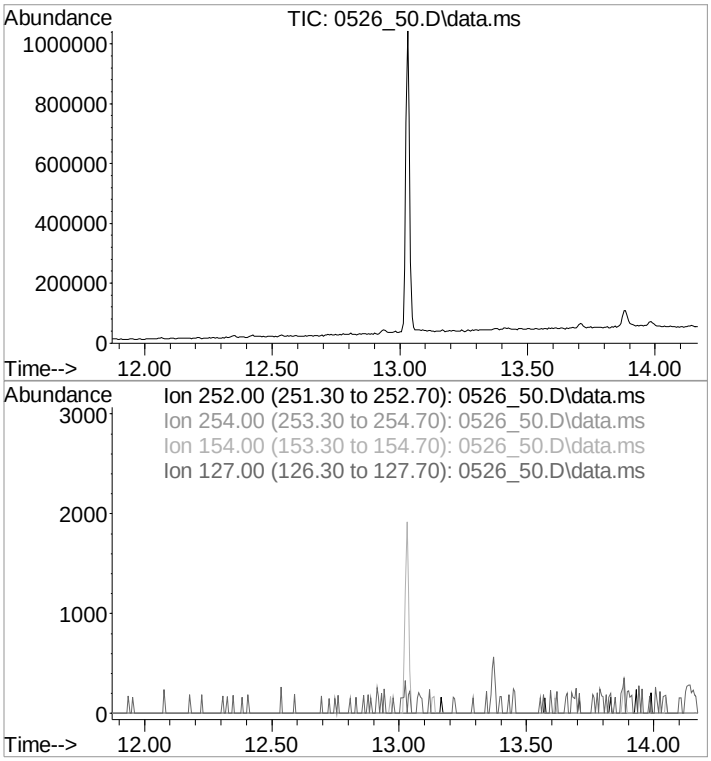


#82
Benzylbutyl phthalate
Concen: N.D.
Expected RT: 12.38 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 149

Sig	Exp Ratio
149	100
91	78.5
206	18.2
150	11.8

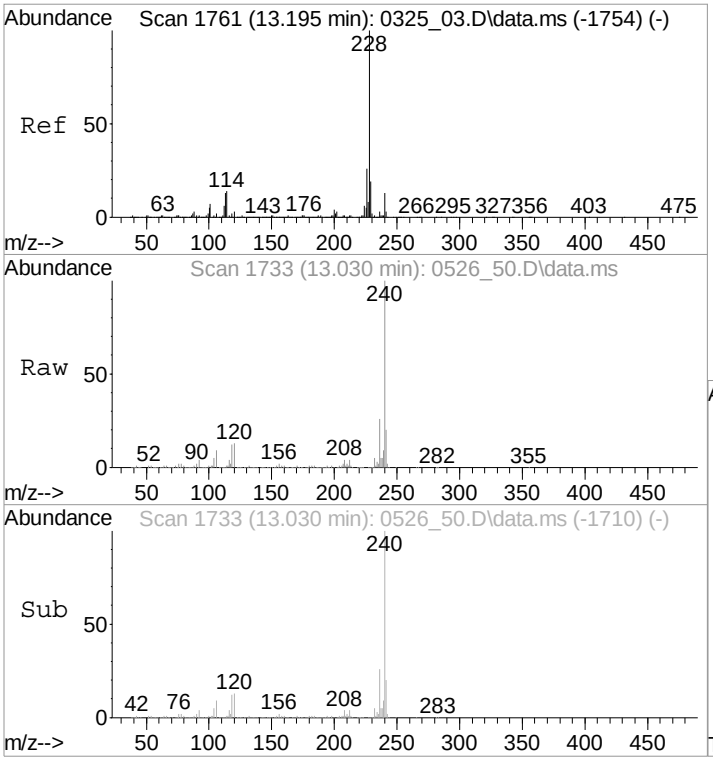


#83
3,3-Dichlorobenzidine
Concen: N.D.
Expected RT: 12.97 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 252

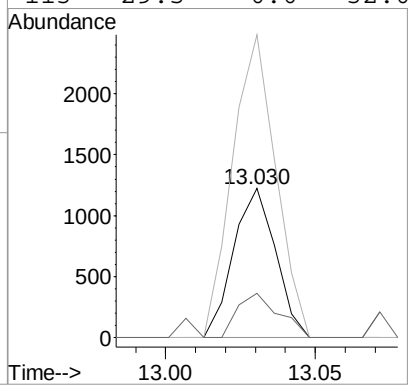
Sig	Exp Ratio
252	100
254	63.0
154	16.0
127	14.0

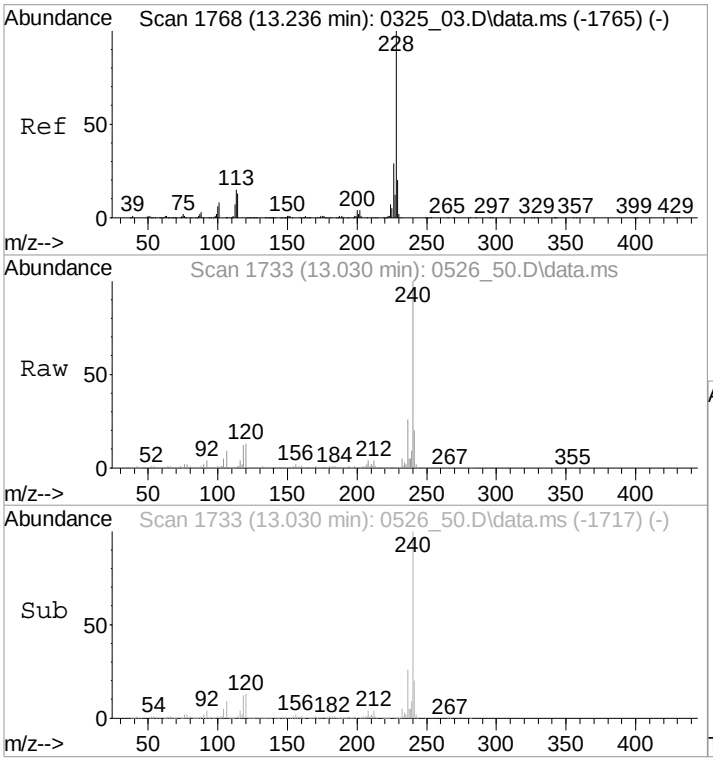


#84
Benzo(a)anthracene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.018 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:228 Resp: 1201

Ion	Ratio	Lower	Upper
228	100		
226	0.0	6.1	46.1#
114	202.8	0.0	33.0#
113	29.5	0.0	32.0

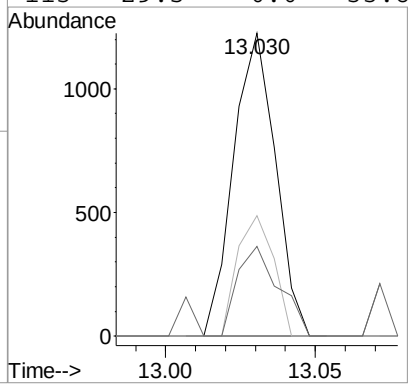


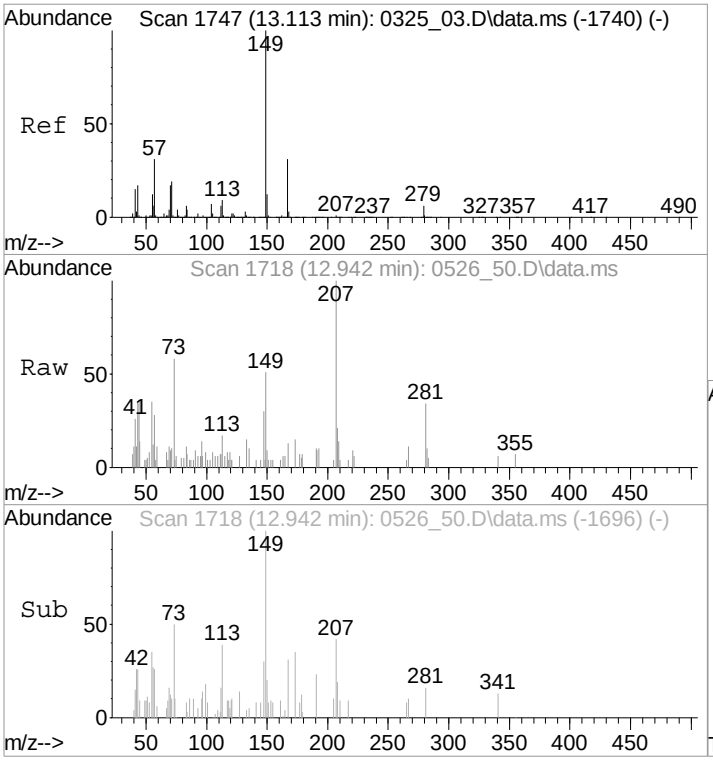


#85
Chrysene
Concen: Below Cal
RT: 13.030 min Scan# 1733
Delta R.T. -0.059 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:228 Resp: 1201

Ion	Ratio	Lower	Upper
228	100		
226	0.0	9.0	49.0#
229	39.8	0.0	39.4#
113	29.5	0.0	33.8

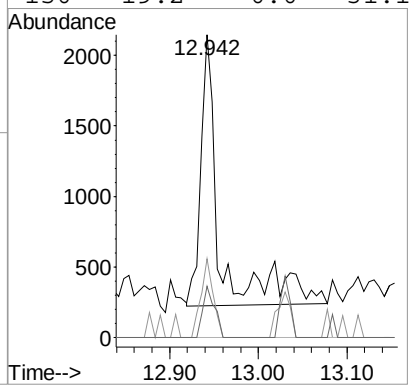


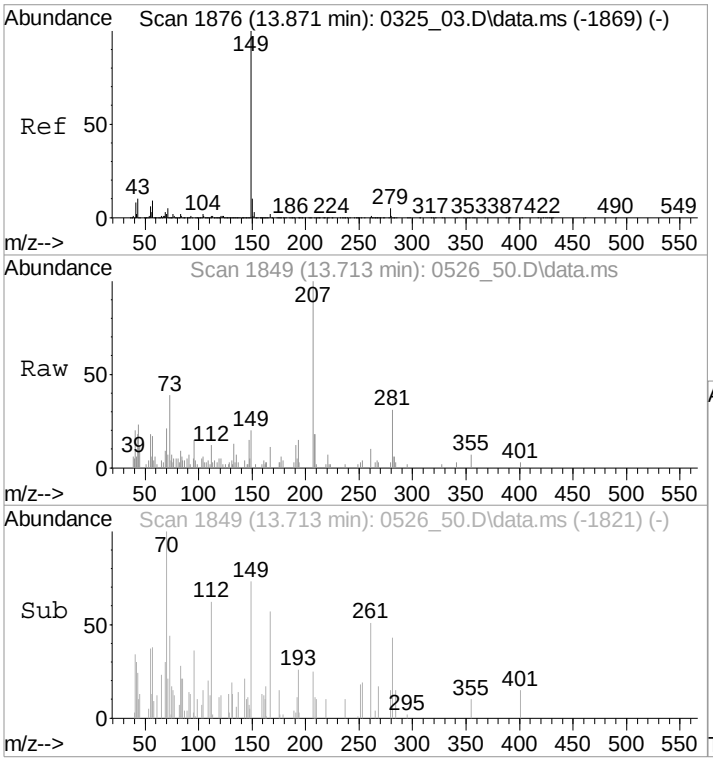


#86
bis(2-Ethylhexyl)phthalate
Concen: 0.2907269 ppb
RT: 12.942 min Scan# 1718
Delta R.T. -0.023 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:149 Resp: 2872

Ion	Ratio	Lower	Upper
149	100		
167	29.3	8.4	48.4
279	0.0	0.0	25.2
150	19.2	0.0	31.1

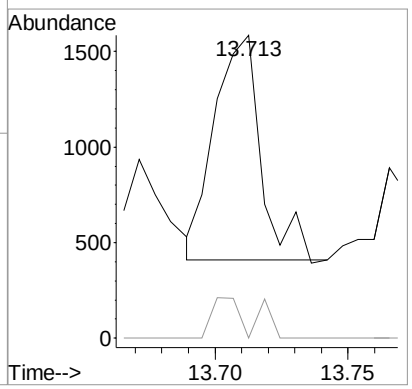


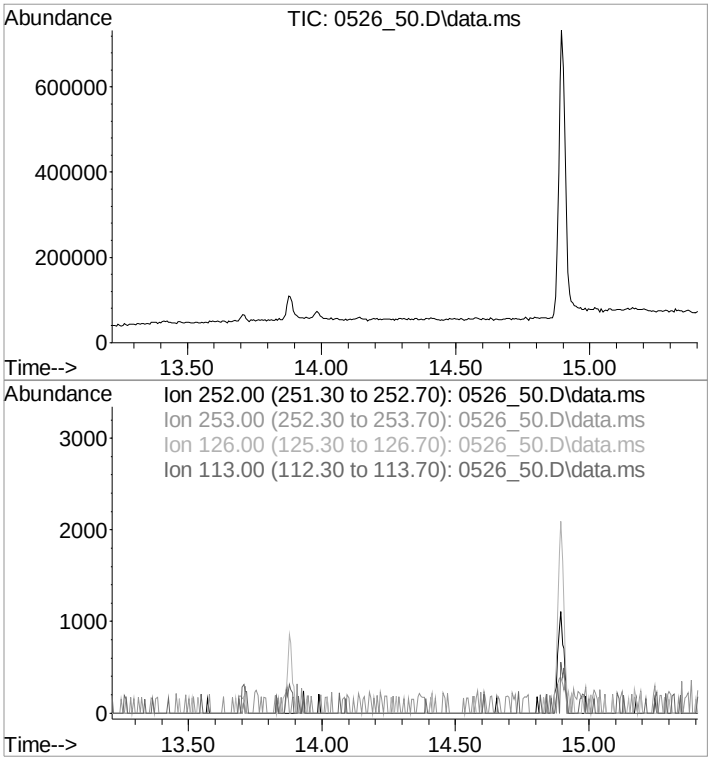


#87
Di-n-octyl phthalate
Concen: Below Cal
RT: 13.713 min Scan# 1849
Delta R.T. 0.012 min
Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:149 Resp: 1431

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	29.5



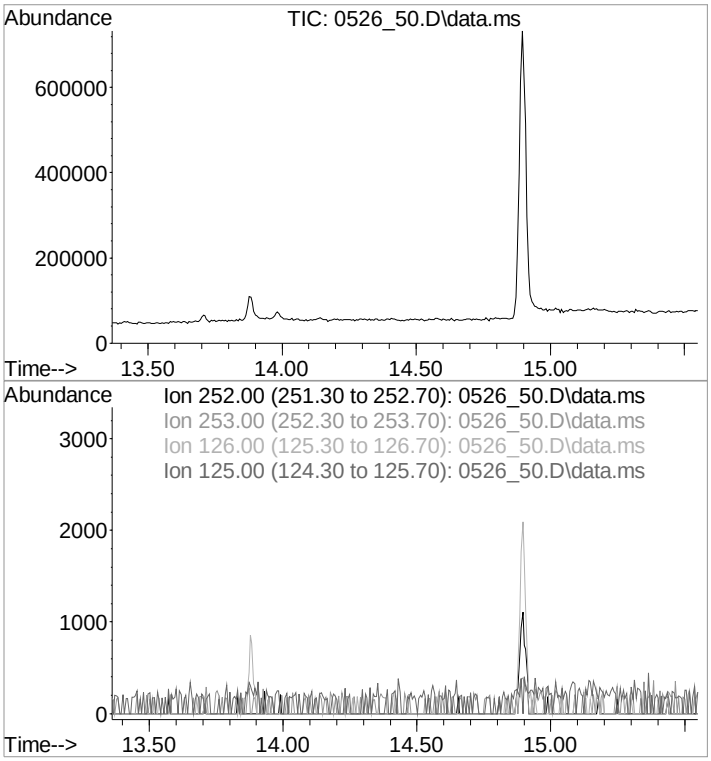


#89
Benzo(b)fluoranthene
Concen: N.D.
Expected RT: 14.37 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 252

Sig	Exp Ratio
252	100
253	21.8
126	16.3
113	8.6

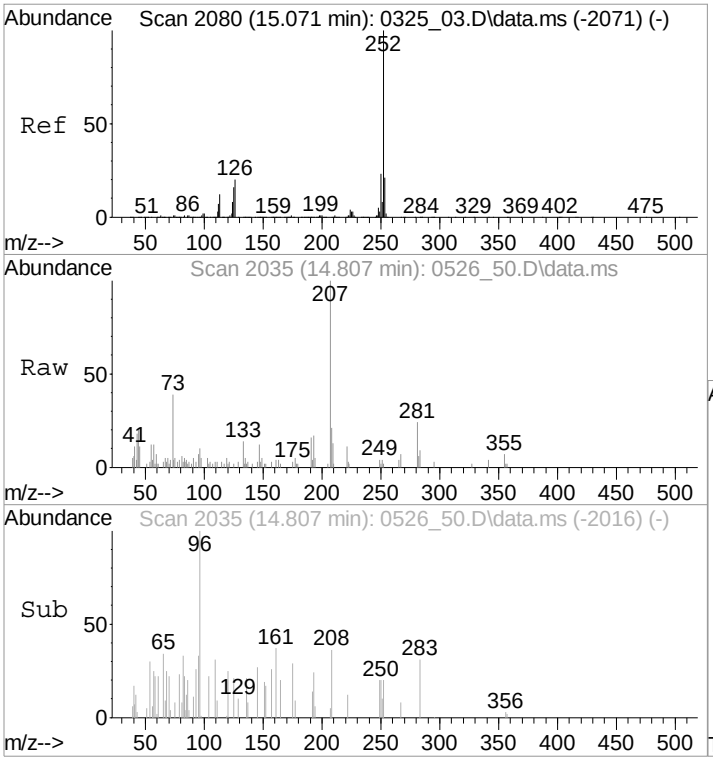


#90
Benzo(k)fluoranthene
Concen: N.D.
Expected RT: 14.40 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 252

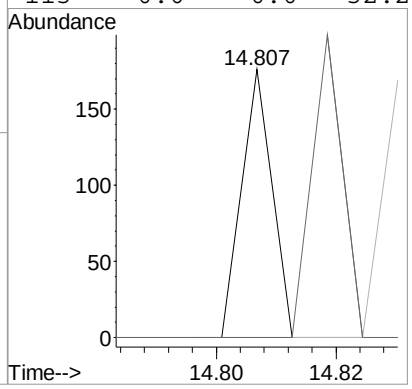
Sig	Exp Ratio
252	100
253	21.3
126	19.4
125	13.3

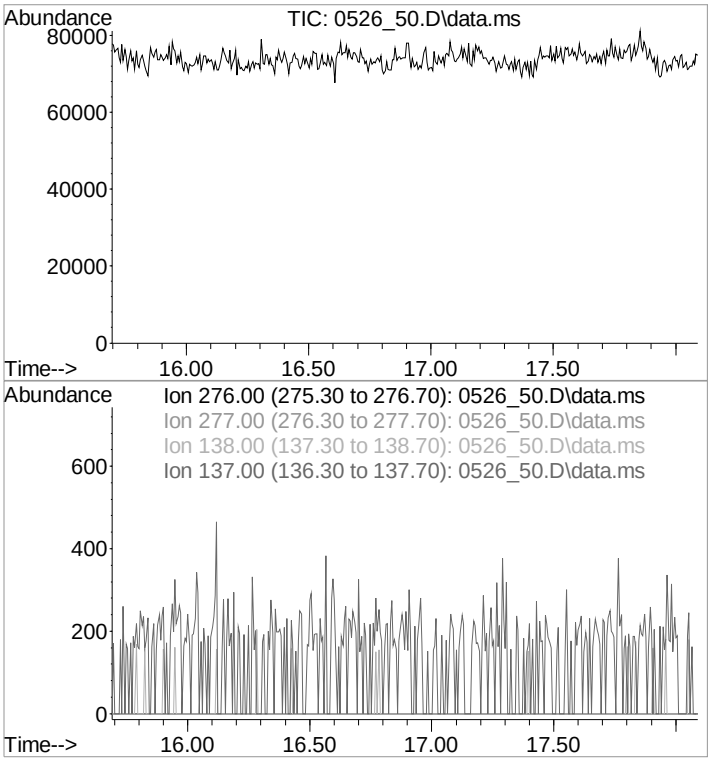


#91
Benzo(a)pyrene
Concen: Below Cal
RT: 14.807 min Scan# 2035
Delta R.T. -0.041 min
Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion:252 Resp: 62

Ion	Ratio	Lower	Upper
252	100		
253	0.0	1.7	41.7#
126	0.0	0.0	39.6
113	0.0	0.0	32.2



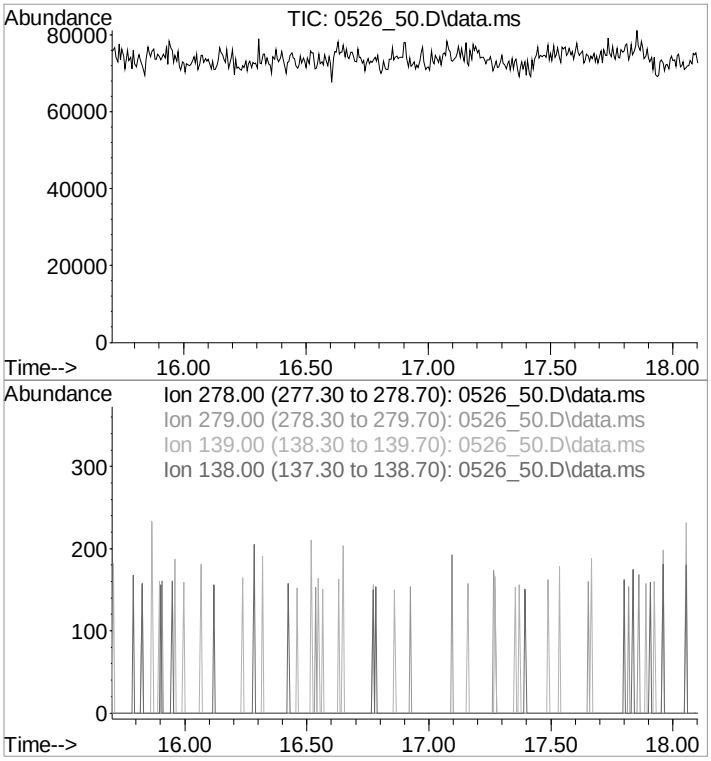


#92
Indeno(1,2,3-cd)pyrene
Concen: N.D.
Expected RT: 16.84 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
277	24.7
138	35.5
137	23.2

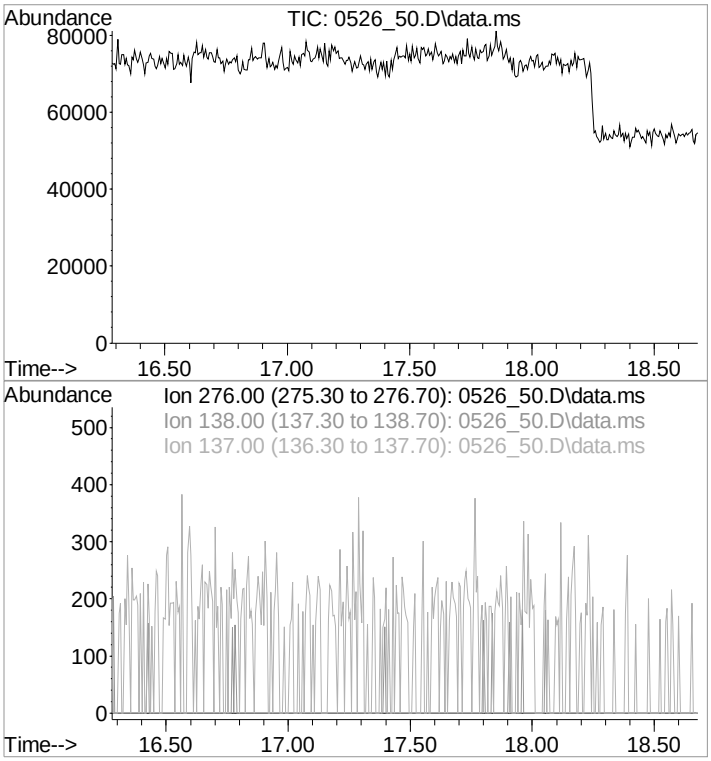


#93
Dibenz(a,h)anthracene
Concen: N.D.
Expected RT: 16.85 min

Lab File: 0526 50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 278

Sig	Exp Ratio
278	100
279	23.4
139	21.9
138	32.3



#94
Benzo(g,h,i)perylene
Concen: N.D.
Expected RT: 17.43 min

Lab File: 0526_50.D
Acq: 27 May 2015 10:25 pm

Tgt Ion: 276

Sig	Exp Ratio
276	100
138	30.7
137	26.2

Calibration

Instrument: BNAMS23
Method: S823E19O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0519b_04.D	40	5/19/2015 6:08:00 PM
0519b_05.D	200	5/19/2015 6:31:00 PM
0519b_06.D	1000	5/19/2015 6:54:00 PM
0519b_07.D	2000	5/19/2015 7:18:00 PM
0519b_08.D	5000	5/19/2015 7:41:00 PM
0519b_03.D	10000	5/19/2015 5:45:00 PM
0519b_09.D	20000	5/19/2015 8:04:00 PM
0519b_10.D	30000	5/19/2015 8:28:00 PM
0519b_11.D	40000	5/19/2015 8:51:00 PM
0519b_12.D	50000	5/19/2015 9:14:00 PM
0519b_14.D	1K1	5/19/2015 10:01:00 PM
0519b_15.D	2K1	5/19/2015 10:24:00 PM
0519b_16.D	5K1	5/19/2015 10:48:00 PM
0519b_13.D	10K1	5/19/2015 9:38:00 PM
0519b_17.D	20K1	5/19/2015 11:11:00 PM
0519b_18.D	30K1	5/19/2015 11:34:00 PM
0519b_19.D	40K1	5/19/2015 11:57:00 PM
0519b_20.D	50K1	5/20/2015 12:21:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/20/2015 2:37:58 PM

Run ID : 051915b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0519b_02	TUNE SVMS 50 PPM 15B11028								1	05/19/15 1640	
2	0519b_03	MSTD SVMS 10K PPB 15D30944	S823E19O						1	1	05/19/15 1745	"8270 PRIMARY CALIBRATION"
3	0519b_04	STD SVMS 40 PPB 15D30944	S823E19O						1	1	05/19/15 1808	"8270 PRIMARY CALIBRATION"
4	0519b_04 MRL	MRL SVMS 40 PPB 15D30944	S823E19O						1	1	05/19/15 1808	"8270 PRIMARY CALIBRATION"
5	0519b_05	STD SVMS 200 PPB 15D30944	S823E19O						1	1	05/19/15 1831	"8270 PRIMARY CALIBRATION"
6	0519b_05 MRL	MRL SVMS 200 PPB 15D30944	S823E19O						1	1	05/19/15 1831	"8270 PRIMARY CALIBRATION"
7	0519b_06	STD SVMS 1K PPB 15D30944	S823E19O						1	1	05/19/15 1854	"8270 PRIMARY CALIBRATION"
8	0519b_06 MRL	MRL SVMS 1K PPB 15D30944	S823E19O						1	1	05/19/15 1854	"8270 PRIMARY CALIBRATION"
9	0519b_07	STD SVMS 2K PPB 15D30944	S823E19O						1	1	05/19/15 1918	"8270 PRIMARY CALIBRATION"
10	0519b_07 MRL	MRL SVMS 2K PPB 15D30944	S823E19O						1	1	05/19/15 1918	"8270 PRIMARY CALIBRATION"
11	0519b_08	STD SVMS 5K PPB 15D30944	S823E19O						1	1	05/19/15 1941	"8270 PRIMARY CALIBRATION"
12	0519b_09	STD SVMS 20K PPB 15D30944	S823E19O						1	1	05/19/15 2004	"8270 PRIMARY CALIBRATION"
13	0519b_10	STD SVMS 30K PPB 15D30944	S823E19O						1	1	05/19/15 2028	"8270 PRIMARY CALIBRATION"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS23
Computer Name : SVCOMPAZ

Released By : Allen Fuller
Date Released : 5/20/2015 2:37:58 PM

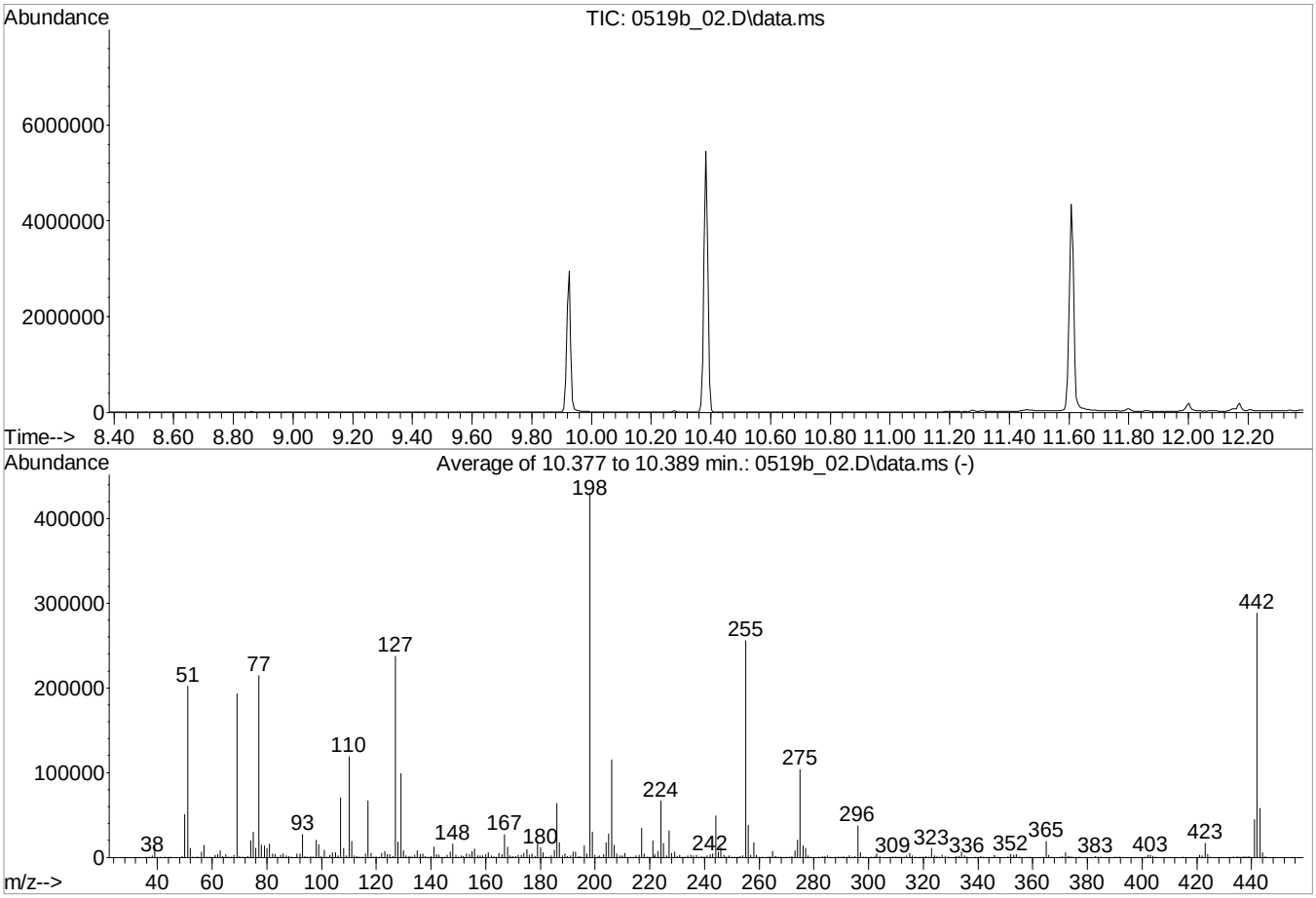
Run ID : 051915b
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	0519b_11	STD SVMS 40K PPB 15D30944	S823E19O						1	1	05/19/15 2051	"8270 PRIMARY CALIBRATION"
15	0519b_12	STD SVMS 50K PPB 15D30944	S823E19O						1	1	05/19/15 2114	"8270 PRIMARY CALIBRATION"
16	0519b_13	MSTD TCL 10K1 PPB 15B24611	S823E19O						1	1	05/19/15 2138	"8270 TCL CALIBRATION"
17	0519b_14	STD TCL 1K1 PPB 15B24611	S823E19O						1	1	05/19/15 2201	"8270 TCL CALIBRATION"
18	0519b_15	STD TCL 2K1 PPB 15B24611	S823E19O						1	1	05/19/15 2224	"8270 TCL CALIBRATION"
19	0519b_15 MRL	MRL TCL 2K1 PPB 15B24611	S823E19O						1	1	05/19/15 2224	"8270 TCL CALIBRATION"
20	0519b_16	STD TCL 5K1 PPB 15B24611	S823E19O						1	1	05/19/15 2248	"8270 TCL CALIBRATION"
21	0519b_17	STD TCL 20K1 PPB 15B24611	S823E19O						1	1	05/19/15 2311	"8270 TCL CALIBRATION"
22	0519b_18	STD TCL 30K1 PPB 15B24611	S823E19O						1	1	05/19/15 2334	"8270 TCL CALIBRATION"
23	0519b_19	STD TCL 40K1 PPB 15B24611	S823E19O						1	1	05/19/15 2357	"8270 TCL CALIBRATION"
24	0519b_20	STD TCL 50K1 PPB 15B24611	S823E19O						1	1	05/20/15 0021	"8270 TCL CALIBRATION"
25	0519b_21	SSCV SVMS 10K PPB 15D30945	S823E19O						1	1	05/20/15 0044	"8270 PRIMARY CALIBRATION"

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Thu Sep 13 10:14:57 2012



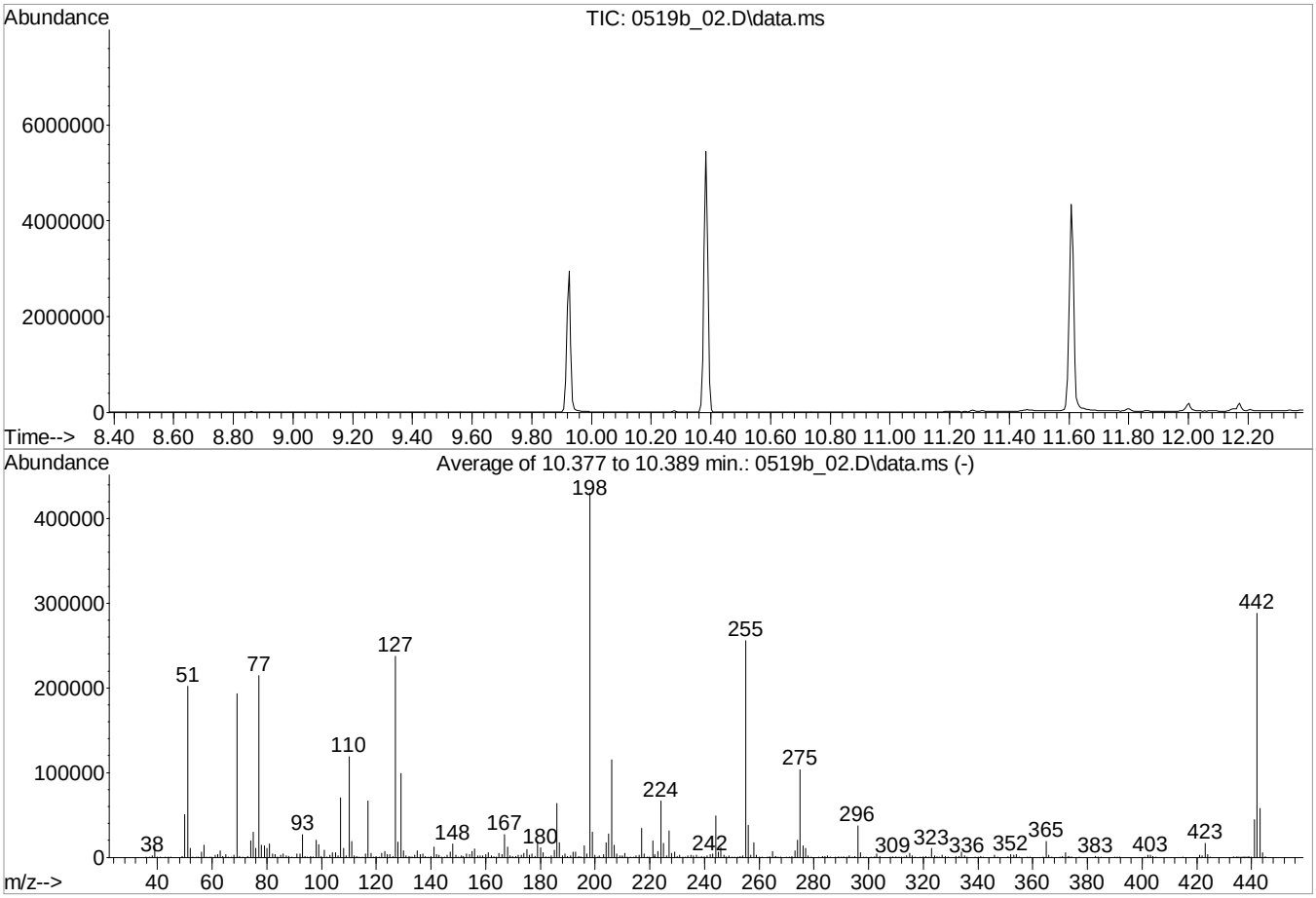
Spectrum Information: Average of 10.377 to 10.389 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.9	201912	PASS
68	69	0.00	2	1.5	2950	PASS
69	198	0.00	100	44.8	192885	PASS
70	69	0.00	2	0.5	909	PASS
127	198	40	60	55.1	236992	PASS
197	198	0.00	1	0.9	3736	PASS
198	198	100	100	100.0	430315	PASS
199	198	5	9	6.9	29517	PASS
275	198	10	30	24.1	103781	PASS
365	198	1	100	4.4	18990	PASS
441	443	0.01	100	76.6	44464	PASS
442	198	40	100	66.9	287787	PASS
443	442	17	23	20.2	58021	PASS

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TUNED.M
Title :
Last Update : Thu Sep 13 10:14:12 2012



Spectrum Information: Average of 10.377 to 10.389 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.9	201912	PASS
68	69	0.00	2	1.5	2950	PASS
70	69	0.00	2	0.5	909	PASS
127	198	10	80	55.1	236992	PASS
197	198	0.00	2	0.9	3736	PASS
198	198	50	100	100.0	430315	PASS
199	198	5	9	6.9	29517	PASS
275	198	10	60	24.1	103781	PASS
365	198	1	100	4.4	18990	PASS
441	442	0.01	24	15.5	44464	PASS
442	198	50	100	66.9	287787	PASS
443	442	15	24	20.2	58021	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:34:26 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Thu Sep 13 10:14:57 2012
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

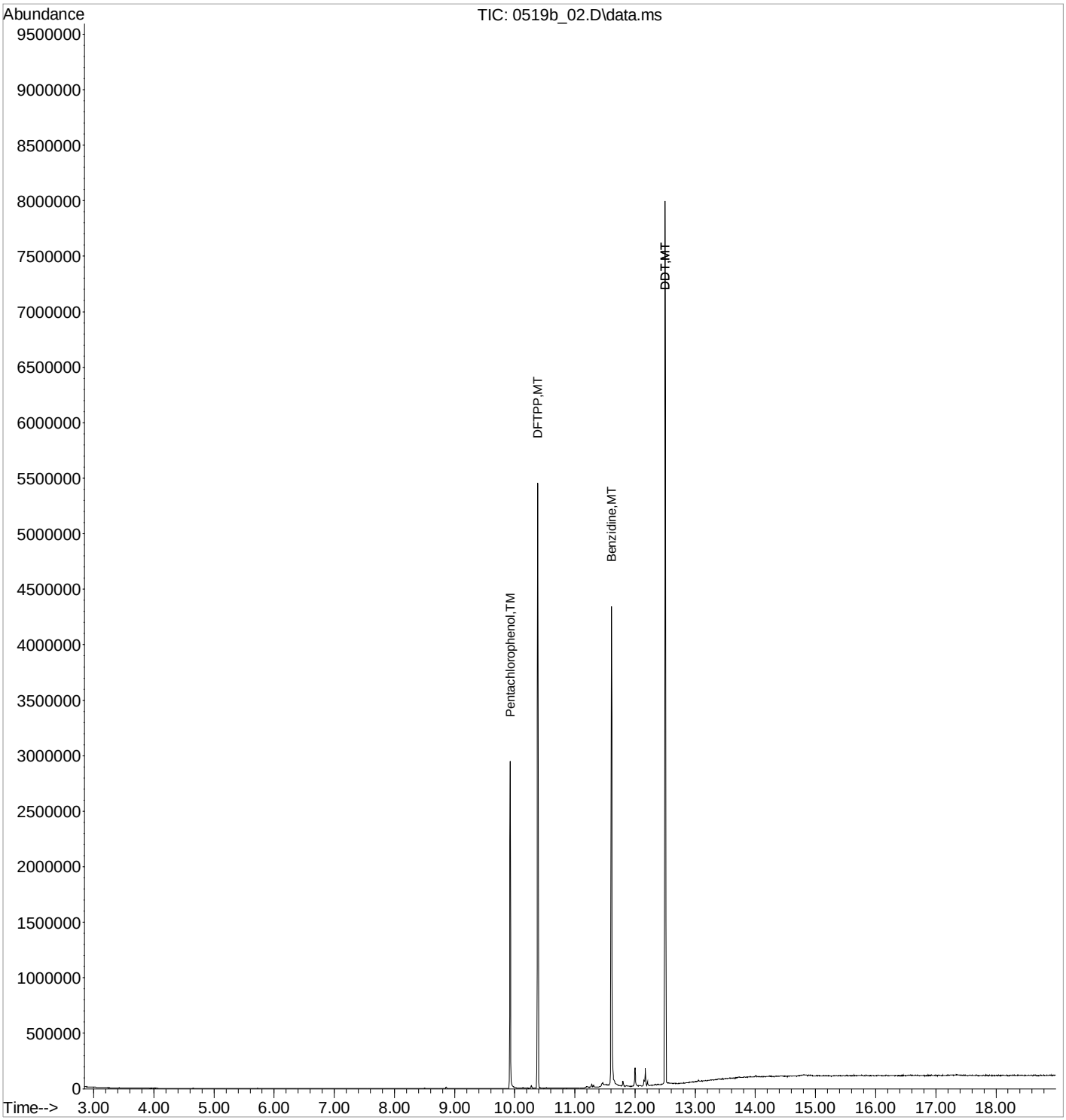
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	9.925	264	177884	30.4844359	ug/mL	100
2) DFTPP	10.383	198	521586	70.4954547	ug/mL	100
3) Benzidine	11.607	184	1737240	72.3800540	ug/mL	100
4) DDT	12.501	TIC	7685097	571.1185608	ug/ml	100
5) DDT	12.501	235	1365960	101.5114200	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS23

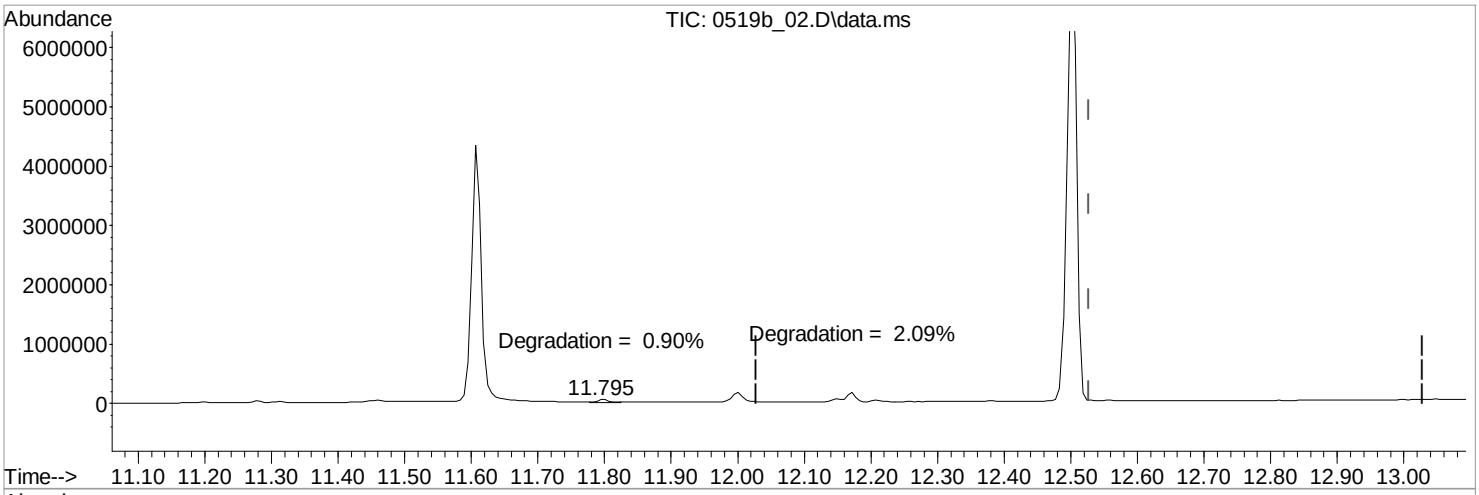
Quant Time: May 20 14:34:26 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Thu Sep 13 10:14:57 2012
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

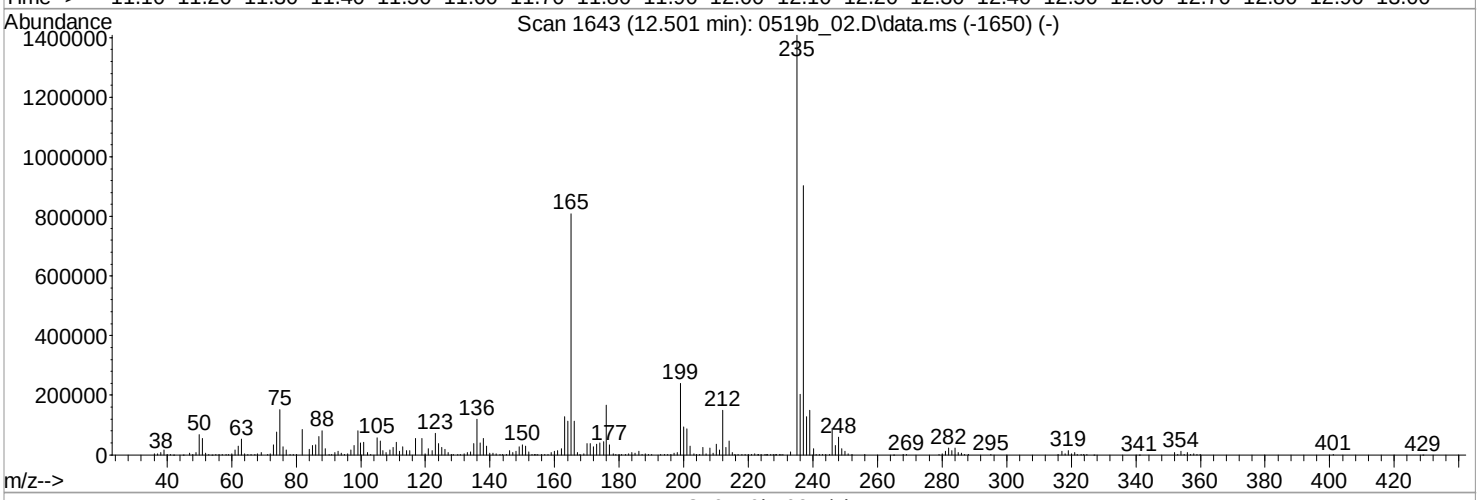


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:34:26 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Thu Sep 13 10:14:57 2012
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M





TIC: 0519b_02.D\data.ms

(4) DDT (MT)

12.501min (-0.027) 571.1185608 ug/ml

Qvalue = 100

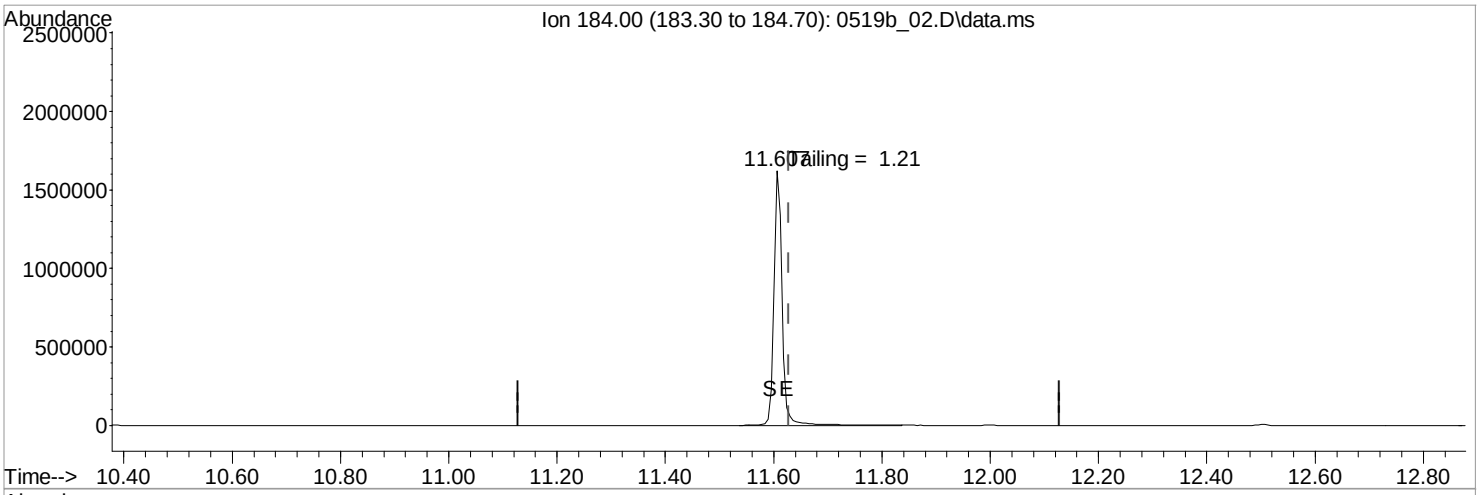
response 7685097

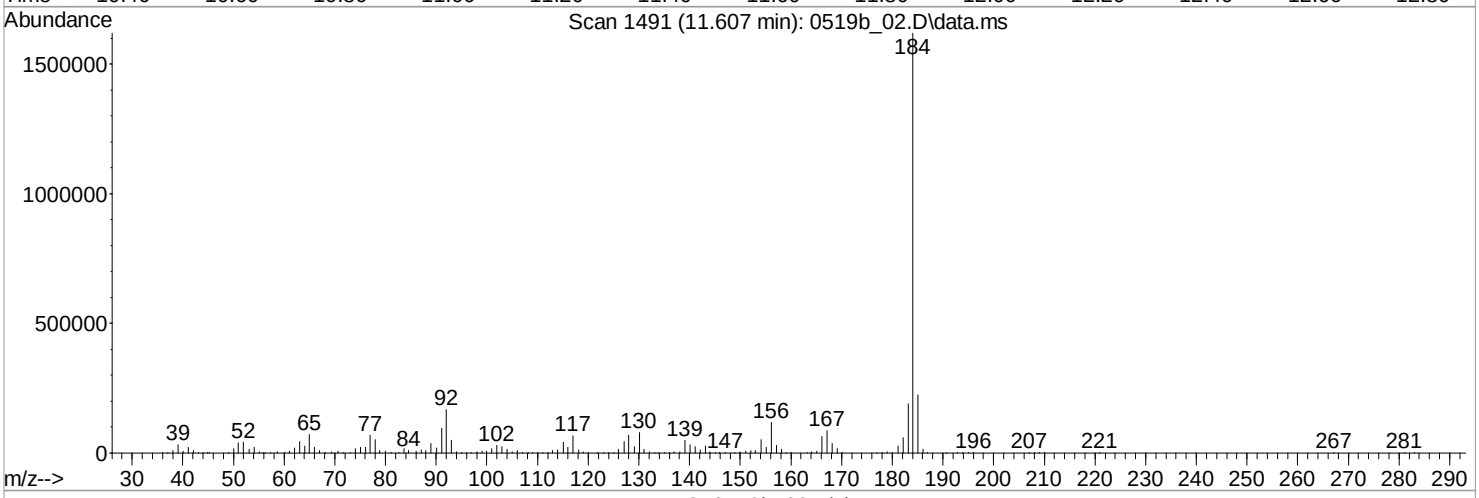
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:34:26 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Thu Sep 13 10:14:57 2012
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M





(3) Benzidine (MT)

11.607min (-0.021) 72.3800540 ug/mL

Qvalue = 100

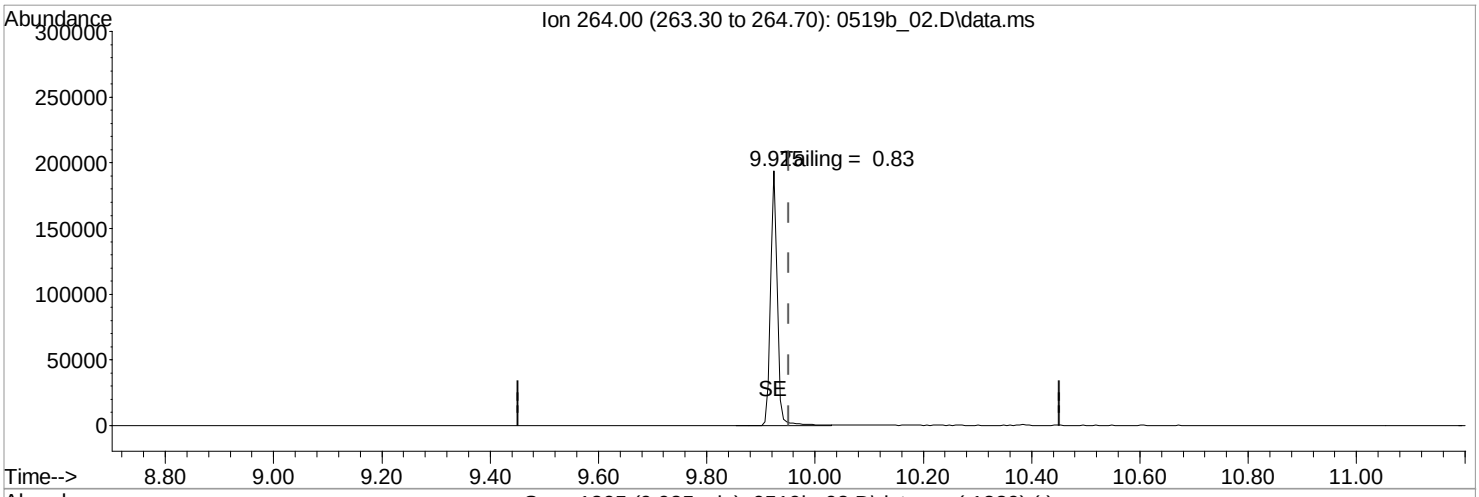
response 1737240

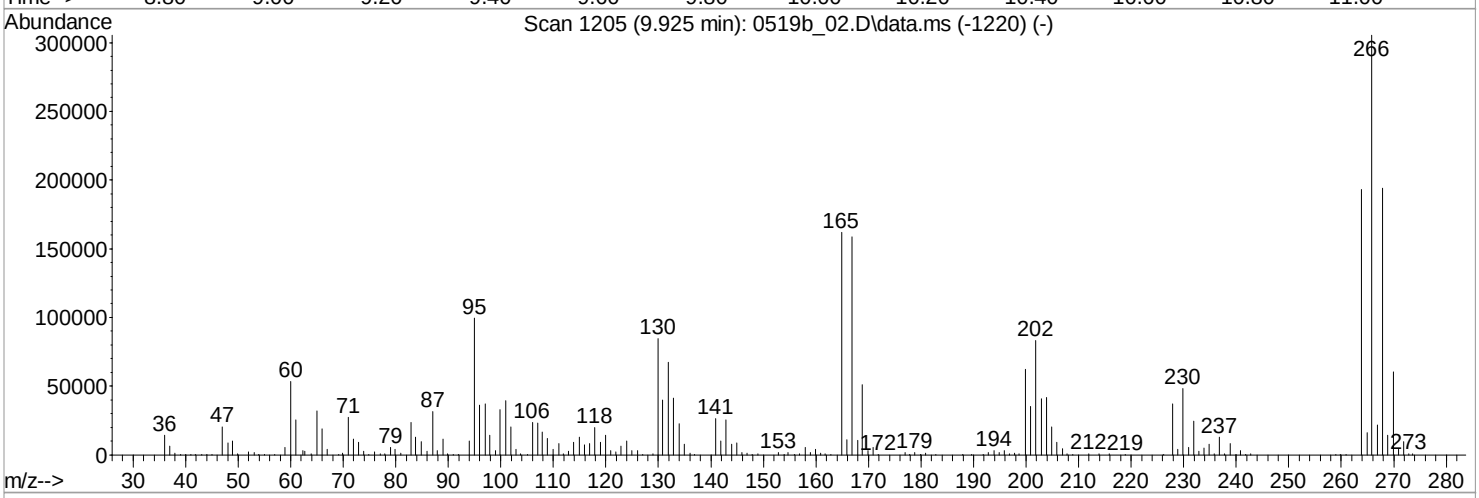
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 02.D
Acq On : 19 May 2015 4:40 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : dftpp tune 14K19964
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:34:26 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Thu Sep 13 10:14:57 2012
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M





(1) Pentachlorophenol (TM)

9.925min (-0.027) 30.4844359 ug/mL

Qvalue = 100

response 177884

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

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.767	1.921	2.151	1.917	1.965	1.934	1.94	1.936	1.868									1.933211	5.19	0.052	1
N-Nitrosodimethylamine		1.256	1.096	1.116	1.04	1.043	1	1.008	0.994	0.957									1.056644	8.51	0.085	1
2-Fluorophenol		1.141	1.145	1.255	1.194	1.204	1.22	1.227	1.233	1.186									1.200577	3.22	0.032	1
Aniline		0.829	0.877	0.946	0.897	0.871	0.91	0.911	0.907	0.883									0.89228	3.68	0.037	1
bis(2-Chloroethyl)ether		1.371	1.347	1.433	1.319	1.343	1.294	1.309	1.28	1.228									1.325034	4.41	0.044	1
Phenol-d5		1.458	1.569	1.755	1.623	1.66	1.668	1.701	1.679	1.639									1.639164	5.2	0.052	1
Phenol		1.676	1.74	1.948	1.832	1.815	1.822	1.846	1.842	1.773									1.810338	4.2	0.042	1
Benzaldehyde											0.715	0.648	0.641	0.671	0.689	0.703	0.701	0.704	0.683803	4.05	0.041	1
2-Chlorophenol		1.388	1.446	1.531	1.424	1.411	1.442	1.454	1.465	1.405									1.440804	2.92	0.029	1
n-Decane		1.228	1.067	1.11	0.975	0.974	0.89	0.859	0.822	0.769									0.965843	15.36	0.154	1
1,3-Dichlorobenzene		1.586	1.625	1.736	1.596	1.599	1.604	1.631	1.621	1.566									1.618322	3.01	0.03	1
1,4-Dichlorobenzene		1.551	1.654	1.708	1.621	1.622	1.618	1.653	1.655	1.598									1.631038	2.68	0.027	1
Benzyl Alcohol		1.099	1.144	1.288	1.217	1.263	1.301	1.337	1.339	1.295									1.253663	6.72	0.067	1
1,2-Dichlorobenzene		1.57	1.572	1.679	1.573	1.567	1.548	1.592	1.59	1.533									1.580333	2.62	0.026	1
bis(2-Chloroisopropyl)ether		0.484	0.482	0.545	0.466	0.464	0.465	0.471	0.471	0.452									0.477836	5.64	0.056	1
2-Methylphenol		1.316	1.242	1.336	1.224	1.238	1.242	1.273	1.253	1.217									1.260111	3.26	0.033	1
Hexachloroethane		0.803	0.749	0.832	0.781	0.779	0.789	0.805	0.791	0.775									0.789155	2.92	0.029	1
N-Nitrosodi-n-propylamine		0.792	0.769	0.835	0.789	0.811	0.813	0.839	0.828	0.803									0.808806	2.86	0.029	1
3&4-Methyl phenol		1.329	1.367	1.617	1.45	1.476	1.455	1.477	1.476	1.442									1.454412	5.5	0.055	1
Acetophenone											2.062	2.012	2.121	2.058	2.125	2.156	2.168	2.225	2.115979	3.27	0.033	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5		0.395	0.4	0.438	0.419	0.43	0.419	0.429	0.435	0.417									0.420139	3.54	0.035	1
Nitrobenzene		0.41	0.394	0.445	0.43	0.414	0.41	0.419	0.421	0.402									0.416136	3.62	0.036	1
Isophorone		0.733	0.72	0.784	0.749	0.754	0.744	0.753	0.764	0.735									0.748483	2.5	0.025	1
2-Nitrophenol		0.155	0.162	0.197	0.187	0.185	0.195	0.202	0.207	0.2									0.187761	9.58	0.096	1
2,4-Dimethylphenol		0.339	0.383	0.413	0.392	0.387	0.38	0.386	0.387	0.372									0.382203	5.17	0.052	1
bis(2-Chlorethoxy)methane		0.452	0.461	0.513	0.471	0.471	0.456	0.469	0.469	0.45									0.468169	4.03	0.04	1
2,4-Dichlorophenol		0.275	0.3	0.339	0.316	0.319	0.318	0.327	0.33	0.319									0.315845	5.93	0.059	1
Benzoic Acid											0.119	0.16	0.178	0.202	0.229	0.253	0.259	0.264	0.207968	25.27	0.999	3
1,2,4-Trichlorobenzene		0.352	0.359	0.372	0.35	0.339	0.336	0.344	0.349	0.336									0.348517	3.39	0.034	1
Naphthalene	1.2	1.187	1.147	1.227	1.132	1.127	1.106	1.128	1.14	1.104									1.149779	3.59	0.036	1
4-Chloroaniline		0.138	0.157	0.179	0.171	0.163	0.169	0.172	0.172	0.165									0.165061	7.27	0.073	1
Hexachloro-1,3-butadiene		0.254	0.226	0.241	0.223	0.214	0.224	0.224	0.23	0.224									0.228895	5.14	0.051	1
Caprolactam											0.092	0.1	0.113	0.116	0.122	0.124	0.123	0.122	0.114048	10.5	0.105	1
4-Chloro-3-methylphenol		0.3	0.329	0.362	0.351	0.348	0.35	0.36	0.368	0.356									0.347138	6.06	0.061	1
2-Methylnaphthalene	0.813	0.808	0.787	0.859	0.804	0.795	0.784	0.803	0.814	0.784									0.805249	2.75	0.028	1
1-Methylnaphthalene	0.67	0.708	0.721	0.761	0.719	0.702	0.698	0.713	0.722	0.7									0.711567	3.27	0.033	1
1,2,4,5-Tetrachlorobenzene											0.311	0.325	0.328	0.308	0.32	0.327	0.326	0.328	0.321492	2.5	0.025	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene				0.294	0.31	0.332	0.368	0.383	0.4	0.388									0.353717	11.78	0.118	1
2,4,6-Trichlorophenol		0.305	0.331	0.352	0.338	0.343	0.359	0.365	0.371	0.354									0.346406	5.77	0.058	1
2,4,5-Trichlorophenol		0.337	0.347	0.377	0.364	0.359	0.383	0.386	0.394	0.378									0.369303	5.08	0.051	1
2-Fluorobiphenyl		1.258	1.284	1.368	1.276	1.257	1.293	1.284	1.303	1.234									1.284117	2.94	0.029	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.415	1.448	1.432	1.51	1.388	1.38	1.404	1.415	1.436	1.34									1.416708	3.2	0.032	1
2-Chloronaphthalene	1.296	1.165	1.162	1.198	1.131	1.12	1.137	1.142	1.158	1.076									1.158629	5.01	0.05	1
2-Nitroaniline			0.306	0.329	0.353	0.367	0.388	0.392	0.401	0.377									0.364244	9.06	0.091	1
Acenaphthylene	1.443	1.706	1.78	1.939	1.85	1.827	1.857	1.861	1.896	1.784									1.794253	7.78	0.078	1
Dimethyl phthalate		1.264	1.334	1.411	1.334	1.289	1.326	1.315	1.34	1.257									1.318927	3.51	0.035	1
2,6-Dinitrotoluene		0.236	0.263	0.319	0.305	0.296	0.31	0.309	0.31	0.297									0.293814	9.15	0.091	1
3-Nitroaniline		0.225	0.259	0.314	0.312	0.3	0.302	0.303	0.307	0.295									0.290996	10.18	0.102	1
Acenaphthene	1.188	1.208	1.224	1.295	1.181	1.17	1.205	1.205	1.21	1.164									1.20493	3.06	0.031	1
2,4-Dinitrophenol				0.064	0.084	0.117	0.137	0.157	0.17	0.172									0.128833	32.83	0.992	0
Dibenzofuran	1.647	1.719	1.724	1.824	1.68	1.641	1.686	1.691	1.719	1.617									1.694852	3.43	0.034	1
2,4-Dinitrotoluene		0.284	0.333	0.392	0.4	0.405	0.419	0.428	0.436	0.414									0.390032	12.72	0.127	1
2,3,4,6-Tetrachlorophenol											0.204	0.22	0.245	0.258	0.275	0.293	0.285	0.286	0.258214	12.77	0.128	1
4-Nitrophenol			0.178	0.219	0.222	0.241	0.261	0.267	0.28	0.264									0.241459	13.97	0.14	1
Fluorene	1.287	1.374	1.407	1.505	1.389	1.386	1.426	1.425	1.43	1.366									1.39958	4	0.04	1
4-Chlorophenyl-phenylether		0.644	0.639	0.693	0.634	0.608	0.635	0.638	0.636	0.607									0.637204	3.92	0.039	1
Diethyl phthalate		1.4	1.374	1.484	1.42	1.367	1.422	1.421	1.448	1.39									1.414002	2.59	0.026	1
4-Nitroaniline			0.285	0.315	0.321	0.272	0.247	0.247	0.255	0.241									0.272906	11.57	0.116	1
Azobenzene		1.36	1.527	1.621	1.552	1.57	1.555	1.539	1.543	1.465									1.525717	4.86	0.049	1
Atrazine											0.32	0.31	0.327	0.351	0.359	0.381	0.374	0.379	0.35008	8.01	0.08	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.063	0.081	0.098	0.109	0.123	0.13	0.139	0.134									0.109526	24.99	0.997	0
N-Nitrosodiphenylamine		0.619	0.662	0.697	0.668	0.64	0.646	0.649	0.654	0.623									0.651014	3.65	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.074	0.095	0.109	0.109	0.105	0.112	0.114	0.117	0.113									0.105444	12.72	0.127	1
4-Bromophenyl-phenylether		0.204	0.205	0.227	0.208	0.203	0.208	0.212	0.213	0.205									0.20932	3.58	0.036	1
Hexachlorobenzene		0.262	0.256	0.259	0.248	0.233	0.245	0.242	0.25	0.239									0.248393	3.83	0.038	1
n-octadecane		0.177	0.195	0.218	0.204	0.199	0.193	0.184	0.182	0.169									0.191248	7.81	0.078	1
Pentachlorophenol			0.068	0.095	0.108	0.121	0.135	0.143	0.15	0.145									0.120594	23.55	0.997	0
Phenanthrene	1.311	1.311	1.233	1.275	1.222	1.195	1.205	1.212	1.218	1.154									1.233803	4.1	0.041	1
Anthracene	1.072	1.158	1.184	1.241	1.217	1.178	1.225	1.205	1.221	1.17									1.187262	4.09	0.041	1
Carbazole	0.99	1.04	1.129	1.189	1.163	1.07	1.046	0.975	0.955	0.874									1.043039	9.48	0.095	1
Di-n-butyl phthalate		1.407	1.457	1.582	1.557	1.551	1.598	1.577	1.581	1.468									1.530983	4.48	0.045	1
2-nitrodiphenylamine											0.199	0.219	0.25	0.28	0.311	0.337	0.339	0.346	0.285277	20.16	0.997	0
Fluoranthene	1.374	1.229	1.328	1.435	1.397	1.362	1.417	1.424	1.424	1.357									1.374696	4.51	0.045	1
Chrysene-d12																						
Benzidine											0.353	0.387	0.445	0.459	0.52	0.594	0.59	0.603	0.493861	19.78	0.995	0
Pyrene	1.322	1.41	1.371	1.479	1.392	1.397	1.419	1.404	1.439	1.345									1.39772	3.22	0.032	1
p-Terphenyl-d14		0.98	1.029	1.043	0.978	0.979	0.99	0.993	1.009	0.966									0.996471	2.59	0.026	1
Benzylbutyl phthalate		0.717	0.689	0.74	0.708	0.738	0.749	0.736	0.756	0.716									0.727753	2.99	0.03	1
3,3-Dichlorobenzidine											0.406	0.391	0.399	0.406	0.41	0.427	0.427	0.421	0.411001	3.22	0.032	1
Benzo(a)anthracene	1.801	1.42	1.275	1.334	1.261	1.279	1.286	1.282	1.293	1.243									1.347376	12.38	0.124	1
Chrysene	1.207	1.206	1.219	1.298	1.186	1.203	1.2	1.207	1.229	1.152									1.210651	3.05	0.031	1
bis(2-Ethylhexyl)phthalate		1.009	1.019	1.128	1.049	1.076	1.085	1.087	1.099	1.039									1.065791	3.68	0.037	1
Di-n-octyl phthalate		1.881	1.763	1.912	1.815	1.871	1.876	1.869	1.895	1.785									1.851733	2.79	0.028	1
Perylene-d12																						

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS23	Review Method	:	8270C	Released By	:	Allen Fuller
Method	:	S823E19O	Review Protocol	:	SW846	Released On	:	5/20/2015 2:37:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.438	1.35	1.28	1.388	1.318	1.337	1.304	1.296	1.357	1.278									1.334711	3.79	0.038	1
Benzo(k)fluoranthene	1.404	1.251	1.171	1.258	1.195	1.163	1.224	1.266	1.237	1.23									1.239921	5.45	0.055	1
Benzo(a)pyrene	1.289	1.231	1.142	1.283	1.198	1.198	1.211	1.216	1.238	1.205									1.221177	3.51	0.035	1
Indeno(1,2,3-cd)pyrene	1.224	1.268	1.212	1.344	1.253	1.263	1.267	1.256	1.276	1.216									1.257928	3.02	0.03	1
Dibenz(a,h)anthracene	1.064	1.034	1.007	1.096	1.03	1.057	1.031	1.035	1.044	1.005									1.040191	2.6	0.026	1
Benzo(g,h,i)perylene	1.03	1.078	1.041	1.133	1.059	1.07	1.077	1.072	1.078	1.035									1.067294	2.76	0.028	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 625	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: EPA	Released On	: 5/20/2015 2:37:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.767	1.921	2.151	1.917	1.965	1.934	1.94	1.936	1.868									1.933211	5.19	0.052	1
N-Nitrosodimethylamine		1.256	1.096	1.116	1.04	1.043	1	1.008	0.994	0.957									1.056644	8.51	0.085	1
2-Fluorophenol		1.141	1.145	1.255	1.194	1.204	1.22	1.227	1.233	1.186									1.200577	3.22	0.032	1
Aniline		0.829	0.877	0.946	0.897	0.871	0.91	0.911	0.907	0.883									0.89228	3.68	0.037	1
bis(2-Chloroethyl)ether		1.371	1.347	1.433	1.319	1.343	1.294	1.309	1.28	1.228									1.325034	4.41	0.044	1
Phenol-d5		1.458	1.569	1.755	1.623	1.66	1.668	1.701	1.679	1.639									1.639164	5.2	0.052	1
Phenol		1.676	1.74	1.948	1.832	1.815	1.822	1.846	1.842	1.773									1.810338	4.2	0.042	1
Benzaldehyde											0.715	0.648	0.641	0.671	0.689	0.703	0.701	0.704	0.683803	4.05	0.041	1
2-Chlorophenol		1.388	1.446	1.531	1.424	1.411	1.442	1.454	1.465	1.405									1.440804	2.92	0.029	1
n-Decane		1.228	1.067	1.11	0.975	0.974	0.89	0.859	0.822	0.769									0.965843	15.36	0.154	1
1,3-Dichlorobenzene		1.586	1.625	1.736	1.596	1.599	1.604	1.631	1.621	1.566									1.618322	3.01	0.03	1
1,4-Dichlorobenzene		1.551	1.654	1.708	1.621	1.622	1.618	1.653	1.655	1.598									1.631038	2.68	0.027	1
Benzyl Alcohol		1.099	1.144	1.288	1.217	1.263	1.301	1.337	1.339	1.295									1.253663	6.72	0.067	1
1,2-Dichlorobenzene		1.57	1.572	1.679	1.573	1.567	1.548	1.592	1.59	1.533									1.580333	2.62	0.026	1
bis(2-Chloroisopropyl)ether		0.484	0.482	0.545	0.466	0.464	0.465	0.471	0.471	0.452									0.477836	5.64	0.056	1
2-Methylphenol		1.316	1.242	1.336	1.224	1.238	1.242	1.273	1.253	1.217									1.260111	3.26	0.033	1
Hexachloroethane		0.803	0.749	0.832	0.781	0.779	0.789	0.805	0.791	0.775									0.789155	2.92	0.029	1
N-Nitrosodi-n-propylamine		0.792	0.769	0.835	0.789	0.811	0.813	0.839	0.828	0.803									0.808806	2.86	0.029	1
3&4-Methyl phenol		1.329	1.367	1.617	1.45	1.476	1.455	1.477	1.476	1.442									1.454412	5.5	0.055	1
Acetophenone											2.062	2.012	2.121	2.058	2.125	2.156	2.168	2.225	2.115979	3.27	0.033	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 625	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: EPA	Released On	: 5/20/2015 2:37:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5		0.395	0.4	0.438	0.419	0.43	0.419	0.429	0.435	0.417									0.420139	3.54	0.035	1
Nitrobenzene		0.41	0.394	0.445	0.43	0.414	0.41	0.419	0.421	0.402									0.416136	3.62	0.036	1
Isophorone		0.733	0.72	0.784	0.749	0.754	0.744	0.753	0.764	0.735									0.748483	2.5	0.025	1
2-Nitrophenol		0.155	0.162	0.197	0.187	0.185	0.195	0.202	0.207	0.2									0.187761	9.58	0.096	1
2,4-Dimethylphenol		0.339	0.383	0.413	0.392	0.387	0.38	0.386	0.387	0.372									0.382203	5.17	0.052	1
bis(2-Chlorethoxy)methane		0.452	0.461	0.513	0.471	0.471	0.456	0.469	0.469	0.45									0.468169	4.03	0.04	1
2,4-Dichlorophenol		0.275	0.3	0.339	0.316	0.319	0.318	0.327	0.33	0.319									0.315845	5.93	0.059	1
Benzoic Acid											0.119	0.16	0.178	0.202	0.229	0.253	0.259	0.264	0.207968	25.27	0.999	3
1,2,4-Trichlorobenzene		0.352	0.359	0.372	0.35	0.339	0.336	0.344	0.349	0.336									0.348517	3.39	0.034	1
Naphthalene	1.2	1.187	1.147	1.227	1.132	1.127	1.106	1.128	1.14	1.104									1.149779	3.59	0.036	1
4-Chloroaniline		0.138	0.157	0.179	0.171	0.163	0.169	0.172	0.172	0.165									0.165061	7.27	0.073	1
Hexachloro-1,3-butadiene		0.254	0.226	0.241	0.223	0.214	0.224	0.224	0.23	0.224									0.228895	5.14	0.051	1
Caprolactam											0.092	0.1	0.113	0.116	0.122	0.124	0.123	0.122	0.114048	10.5	0.105	1
4-Chloro-3-methylphenol		0.3	0.329	0.362	0.351	0.348	0.35	0.36	0.368	0.356									0.347138	6.06	0.061	1
2-Methylnaphthalene	0.813	0.808	0.787	0.859	0.804	0.795	0.784	0.803	0.814	0.784									0.805249	2.75	0.028	1
1-Methylnaphthalene	0.67	0.708	0.721	0.761	0.719	0.702	0.698	0.713	0.722	0.7									0.711567	3.27	0.033	1
1,2,4,5-Tetrachlorobenzene											0.311	0.325	0.328	0.308	0.32	0.327	0.326	0.328	0.321492	2.5	0.025	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene				0.294	0.31	0.332	0.368	0.383	0.4	0.388									0.353717	11.78	0.118	1
2,4,6-Trichlorophenol		0.305	0.331	0.352	0.338	0.343	0.359	0.365	0.371	0.354									0.346406	5.77	0.058	1
2,4,5-Trichlorophenol		0.337	0.347	0.377	0.364	0.359	0.383	0.386	0.394	0.378									0.369303	5.08	0.051	1
2-Fluorobiphenyl		1.258	1.284	1.368	1.276	1.257	1.293	1.284	1.303	1.234									1.284117	2.94	0.029	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 625	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: EPA	Released On	: 5/20/2015 2:37:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.415	1.448	1.432	1.51	1.388	1.38	1.404	1.415	1.436	1.34									1.416708	3.2	0.032	1
2-Chloronaphthalene	1.296	1.165	1.162	1.198	1.131	1.12	1.137	1.142	1.158	1.076									1.158629	5.01	0.05	1
2-Nitroaniline			0.306	0.329	0.353	0.367	0.388	0.392	0.401	0.377									0.364244	9.06	0.091	1
Acenaphthylene	1.443	1.706	1.78	1.939	1.85	1.827	1.857	1.861	1.896	1.784									1.794253	7.78	0.078	1
Dimethyl phthalate		1.264	1.334	1.411	1.334	1.289	1.326	1.315	1.34	1.257									1.318927	3.51	0.035	1
2,6-Dinitrotoluene		0.236	0.263	0.319	0.305	0.296	0.31	0.309	0.31	0.297									0.293814	9.15	0.091	1
3-Nitroaniline		0.225	0.259	0.314	0.312	0.3	0.302	0.303	0.307	0.295									0.290996	10.18	0.102	1
Acenaphthene	1.188	1.208	1.224	1.295	1.181	1.17	1.205	1.205	1.21	1.164									1.20493	3.06	0.031	1
2,4-Dinitrophenol				0.064	0.084	0.117	0.137	0.157	0.17	0.172									0.128833	32.83	0.992	0
Dibenzofuran	1.647	1.719	1.724	1.824	1.68	1.641	1.686	1.691	1.719	1.617									1.694852	3.43	0.034	1
2,4-Dinitrotoluene		0.284	0.333	0.392	0.4	0.405	0.419	0.428	0.436	0.414									0.390032	12.72	0.127	1
2,3,4,6-Tetrachlorophenol											0.204	0.22	0.245	0.258	0.275	0.293	0.285	0.286	0.258214	12.77	0.128	1
4-Nitrophenol			0.178	0.219	0.222	0.241	0.261	0.267	0.28	0.264									0.241459	13.97	0.14	1
Fluorene	1.287	1.374	1.407	1.505	1.389	1.386	1.426	1.425	1.43	1.366									1.39958	4	0.04	1
4-Chlorophenyl-phenylether		0.644	0.639	0.693	0.634	0.608	0.635	0.638	0.636	0.607									0.637204	3.92	0.039	1
Diethyl phthalate		1.4	1.374	1.484	1.42	1.367	1.422	1.421	1.448	1.39									1.414002	2.59	0.026	1
4-Nitroaniline			0.285	0.315	0.321	0.272	0.247	0.247	0.255	0.241									0.272906	11.57	0.116	1
Azobenzene		1.36	1.527	1.621	1.552	1.57	1.555	1.539	1.543	1.465									1.525717	4.86	0.049	1
Atrazine											0.32	0.31	0.327	0.351	0.359	0.381	0.374	0.379	0.35008	8.01	0.08	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.063	0.081	0.098	0.109	0.123	0.13	0.139	0.134									0.109526	24.99	0.997	0
N-Nitrosodiphenylamine		0.619	0.662	0.697	0.668	0.64	0.646	0.649	0.654	0.623									0.651014	3.65	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 625	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: EPA	Released On	: 5/20/2015 2:37:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.074	0.095	0.109	0.109	0.105	0.112	0.114	0.117	0.113									0.105444	12.72	0.127	1
4-Bromophenyl-phenylether		0.204	0.205	0.227	0.208	0.203	0.208	0.212	0.213	0.205									0.20932	3.58	0.036	1
Hexachlorobenzene		0.262	0.256	0.259	0.248	0.233	0.245	0.242	0.25	0.239									0.248393	3.83	0.038	1
n-octadecane		0.177	0.195	0.218	0.204	0.199	0.193	0.184	0.182	0.169									0.191248	7.81	0.078	1
Pentachlorophenol			0.068	0.095	0.108	0.121	0.135	0.143	0.15	0.145									0.120594	23.55	0.997	0
Phenanthrene	1.311	1.311	1.233	1.275	1.222	1.195	1.205	1.212	1.218	1.154									1.233803	4.1	0.041	1
Anthracene	1.072	1.158	1.184	1.241	1.217	1.178	1.225	1.205	1.221	1.17									1.187262	4.09	0.041	1
Carbazole	0.99	1.04	1.129	1.189	1.163	1.07	1.046	0.975	0.955	0.874									1.043039	9.48	0.095	1
Di-n-butyl phthalate		1.407	1.457	1.582	1.557	1.551	1.598	1.577	1.581	1.468									1.530983	4.48	0.045	1
2-nitrodiphenylamine											0.199	0.219	0.25	0.28	0.311	0.337	0.339	0.346	0.285277	20.16	0.997	0
Fluoranthene	1.374	1.229	1.328	1.435	1.397	1.362	1.417	1.424	1.424	1.357									1.374696	4.51	0.045	1
Chrysene-d12																						
Benzidine											0.353	0.387	0.445	0.459	0.52	0.594	0.59	0.603	0.493861	19.78	0.995	0
Pyrene	1.322	1.41	1.371	1.479	1.392	1.397	1.419	1.404	1.439	1.345									1.39772	3.22	0.032	1
p-Terphenyl-d14		0.98	1.029	1.043	0.978	0.979	0.99	0.993	1.009	0.966									0.996471	2.59	0.026	1
Benzylbutyl phthalate		0.717	0.689	0.74	0.708	0.738	0.749	0.736	0.756	0.716									0.727753	2.99	0.03	1
3,3-Dichlorobenzidine											0.406	0.391	0.399	0.406	0.41	0.427	0.427	0.421	0.411001	3.22	0.032	1
Benzo(a)anthracene	1.801	1.42	1.275	1.334	1.261	1.279	1.286	1.282	1.293	1.243									1.347376	12.38	0.124	1
Chrysene	1.207	1.206	1.219	1.298	1.186	1.203	1.2	1.207	1.229	1.152									1.210651	3.05	0.031	1
bis(2-Ethylhexyl)phthalate		1.009	1.019	1.128	1.049	1.076	1.085	1.087	1.099	1.039									1.065791	3.68	0.037	1
Di-n-octyl phthalate		1.881	1.763	1.912	1.815	1.871	1.876	1.869	1.895	1.785									1.851733	2.79	0.028	1
Perylene-d12																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 625	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: EPA	Released On	: 5/20/2015 2:37:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.438	1.35	1.28	1.388	1.318	1.337	1.304	1.296	1.357	1.278									1.334711	3.79	0.038	1
Benzo(k)fluoranthene	1.404	1.251	1.171	1.258	1.195	1.163	1.224	1.266	1.237	1.23									1.239921	5.45	0.055	1
Benzo(a)pyrene	1.289	1.231	1.142	1.283	1.198	1.198	1.211	1.216	1.238	1.205									1.221177	3.51	0.035	1
Indeno(1,2,3-cd)pyrene	1.224	1.268	1.212	1.344	1.253	1.263	1.267	1.256	1.276	1.216									1.257928	3.02	0.03	1
Dibenz(a,h)anthracene	1.064	1.034	1.007	1.096	1.03	1.057	1.031	1.035	1.044	1.005									1.040191	2.6	0.026	1
Benzo(g,h,i)perylene	1.03	1.078	1.041	1.133	1.059	1.07	1.077	1.072	1.078	1.035									1.067294	2.76	0.028	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
1,4-Dichlorobenzene-d4																							
Pyridine		1.767	1.921	2.151	1.917	1.965	1.934	1.94	1.936	1.868									1.933211	5.19	0.052	1	
N-Nitrosodimethylamine		1.256	1.096	1.116	1.04	1.043	1	1.008	0.994	0.957									1.056644	8.51	0.085	1	
2-Fluorophenol		1.141	1.145	1.255	1.194	1.204	1.22	1.227	1.233	1.186									1.200577	3.22	0.032	1	
Aniline		0.829	0.877	0.946	0.897	0.871	0.91	0.911	0.907	0.883									0.89228	3.68	0.037	1	
bis(2-Chloroethyl)ether		1.371	1.347	1.433	1.319	1.343	1.294	1.309	1.28	1.228									1.325034	4.41	0.044	1	0.7
Phenol-d5		1.458	1.569	1.755	1.623	1.66	1.668	1.701	1.679	1.639									1.639164	5.2	0.052	1	
Phenol		1.676	1.74	1.948	1.832	1.815	1.822	1.846	1.842	1.773									1.810338	4.2	0.042	1	0.8
Benzaldehyde											0.715	0.648	0.641	0.671	0.689	0.703	0.701	0.704	0.683803	4.05	0.041	1	0.01
2-Chlorophenol		1.388	1.446	1.531	1.424	1.411	1.442	1.454	1.465	1.405									1.440804	2.92	0.029	1	0.8
n-Decane		1.228	1.067	1.11	0.975	0.974	0.89	0.859	0.822	0.769									0.965843	15.36	0.154	1	
1,3-Dichlorobenzene		1.586	1.625	1.736	1.596	1.599	1.604	1.631	1.621	1.566									1.618322	3.01	0.03	1	
1,4-Dichlorobenzene		1.551	1.654	1.708	1.621	1.622	1.618	1.653	1.655	1.598									1.631038	2.68	0.027	1	
Benzyl Alcohol		1.099	1.144	1.288	1.217	1.263	1.301	1.337	1.339	1.295									1.253663	6.72	0.067	1	
1,2-Dichlorobenzene		1.57	1.572	1.679	1.573	1.567	1.548	1.592	1.59	1.533									1.580333	2.62	0.026	1	
bis(2-Chloroisopropyl)ether		0.484	0.482	0.545	0.466	0.464	0.465	0.471	0.471	0.452									0.477836	5.64	0.056	1	
2-Methylphenol		1.316	1.242	1.336	1.224	1.238	1.242	1.273	1.253	1.217									1.260111	3.26	0.033	1	0.7
Hexachloroethane		0.803	0.749	0.832	0.781	0.779	0.789	0.805	0.791	0.775									0.789155	2.92	0.029	1	0.3
N-Nitrosodi-n-propylamine		0.792	0.769	0.835	0.789	0.811	0.813	0.839	0.828	0.803									0.808806	2.86	0.029	1	0.5
3&4-Methyl phenol		1.329	1.367	1.617	1.45	1.476	1.455	1.477	1.476	1.442									1.454412	5.5	0.055	1	0.6
Acetophenone											2.062	2.012	2.121	2.058	2.125	2.156	2.168	2.225	2.115979	3.27	0.033	1	0.01
Naphthalene-d8																							

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Nitrobenzene-d5		0.395	0.4	0.438	0.419	0.43	0.419	0.429	0.435	0.417									0.420139	3.54	0.035	1	
Nitrobenzene		0.41	0.394	0.445	0.43	0.414	0.41	0.419	0.421	0.402									0.416136	3.62	0.036	1	0.2
Isophorone		0.733	0.72	0.784	0.749	0.754	0.744	0.753	0.764	0.735									0.748483	2.5	0.025	1	0.4
2-Nitrophenol		0.155	0.162	0.197	0.187	0.185	0.195	0.202	0.207	0.2									0.187761	9.58	0.096	1	0.1
2,4-Dimethylphenol		0.339	0.383	0.413	0.392	0.387	0.38	0.386	0.387	0.372									0.382203	5.17	0.052	1	0.2
bis(2-Chlorethoxy)methane		0.452	0.461	0.513	0.471	0.471	0.456	0.469	0.469	0.45									0.468169	4.03	0.04	1	0.3
2,4-Dichlorophenol		0.275	0.3	0.339	0.316	0.319	0.318	0.327	0.33	0.319									0.315845	5.93	0.059	1	0.2
Benzoic Acid											0.119	0.16	0.178	0.202	0.229	0.253	0.259	0.264	0.207968	25.27	0.999	3	
1,2,4-Trichlorobenzene		0.352	0.359	0.372	0.35	0.339	0.336	0.344	0.349	0.336									0.348517	3.39	0.034	1	
Naphthalene	1.2	1.187	1.147	1.227	1.132	1.127	1.106	1.128	1.14	1.104									1.149779	3.59	0.036	1	0.7
4-Chloroaniline		0.138	0.157	0.179	0.171	0.163	0.169	0.172	0.172	0.165									0.165061	7.27	0.073	1	0.01
Hexachloro-1,3-butadiene		0.254	0.226	0.241	0.223	0.214	0.224	0.224	0.23	0.224									0.228895	5.14	0.051	1	0.01
Caprolactam											0.092	0.1	0.113	0.116	0.122	0.124	0.123	0.122	0.114048	10.5	0.105	1	0.01
4-Chloro-3-methylphenol		0.3	0.329	0.362	0.351	0.348	0.35	0.36	0.368	0.356									0.347138	6.06	0.061	1	0.2
2-Methylnaphthalene	0.813	0.808	0.787	0.859	0.804	0.795	0.784	0.803	0.814	0.784									0.805249	2.75	0.028	1	0.4
1-Methylnaphthalene	0.67	0.708	0.721	0.761	0.719	0.702	0.698	0.713	0.722	0.7									0.711567	3.27	0.033	1	
1,2,4,5-Tetrachlorobenzene											0.311	0.325	0.328	0.308	0.32	0.327	0.326	0.328	0.321492	2.5	0.025	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene				0.294	0.31	0.332	0.368	0.383	0.4	0.388									0.353717	11.78	0.118	1	0.05
2,4,6-Trichlorophenol		0.305	0.331	0.352	0.338	0.343	0.359	0.365	0.371	0.354									0.346406	5.77	0.058	1	0.2
2,4,5-Trichlorophenol		0.337	0.347	0.377	0.364	0.359	0.383	0.386	0.394	0.378									0.369303	5.08	0.051	1	0.2
2-Fluorobiphenyl		1.258	1.284	1.368	1.276	1.257	1.293	1.284	1.303	1.234									1.284117	2.94	0.029	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Biphenyl	1.415	1.448	1.432	1.51	1.388	1.38	1.404	1.415	1.436	1.34									1.416708	3.2	0.032	1	0.01
-Chloronaphthalene	1.296	1.165	1.162	1.198	1.131	1.12	1.137	1.142	1.158	1.076									1.158629	5.01	0.05	1	0.8
-Nitroaniline			0.306	0.329	0.353	0.367	0.388	0.392	0.401	0.377									0.364244	9.06	0.091	1	0.01
Acenaphthylene	1.443	1.706	1.78	1.939	1.85	1.827	1.857	1.861	1.896	1.784									1.794253	7.78	0.078	1	0.9
Dimethyl phthalate		1.264	1.334	1.411	1.334	1.289	1.326	1.315	1.34	1.257									1.318927	3.51	0.035	1	0.01
,6-Dinitrotoluene		0.236	0.263	0.319	0.305	0.296	0.31	0.309	0.31	0.297									0.293814	9.15	0.091	1	0.2
-Nitroaniline		0.225	0.259	0.314	0.312	0.3	0.302	0.303	0.307	0.295									0.290996	10.18	0.102	1	0.01
Acenaphthene	1.188	1.208	1.224	1.295	1.181	1.17	1.205	1.205	1.21	1.164									1.20493	3.06	0.031	1	0.9
2,4-Dinitrophenol				0.064	0.084	0.117	0.137	0.157	0.17	0.172									0.128833	32.83	0.992	0	0.01
Dibenzofuran	1.647	1.719	1.724	1.824	1.68	1.641	1.686	1.691	1.719	1.617									1.694852	3.43	0.034	1	0.8
2,4-Dinitrotoluene		0.284	0.333	0.392	0.4	0.405	0.419	0.428	0.436	0.414									0.390032	12.72	0.127	1	0.2
2,3,4,6-Tetrachlorophenol											0.204	0.22	0.245	0.258	0.275	0.293	0.285	0.286	0.258214	12.77	0.128	1	0.01
4-Nitrophenol			0.178	0.219	0.222	0.241	0.261	0.267	0.28	0.264									0.241459	13.97	0.14	1	0.01
Fluorene	1.287	1.374	1.407	1.505	1.389	1.386	1.426	1.425	1.43	1.366									1.39958	4	0.04	1	0.9
4-Chlorophenyl-phenylether		0.644	0.639	0.693	0.634	0.608	0.635	0.638	0.636	0.607									0.637204	3.92	0.039	1	0.4
Diethyl phthalate		1.4	1.374	1.484	1.42	1.367	1.422	1.421	1.448	1.39									1.414002	2.59	0.026	1	0.01
4-Nitroaniline			0.285	0.315	0.321	0.272	0.247	0.247	0.255	0.241									0.272906	11.57	0.116	1	0.01
Azobenzene		1.36	1.527	1.621	1.552	1.57	1.555	1.539	1.543	1.465									1.525717	4.86	0.049	1	
Atrazine											0.32	0.31	0.327	0.351	0.359	0.381	0.374	0.379	0.35008	8.01	0.08	1	0.01
Phenanthrene-d10																							
,6-Dinitro-2-methylphenol			0.063	0.081	0.098	0.109	0.123	0.13	0.139	0.134									0.109526	24.99	0.997	0	0.01
-Nitrosodiphenylamine		0.619	0.662	0.697	0.668	0.64	0.646	0.649	0.654	0.623									0.651014	3.65	0.036	1	0.01

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
2,4,6-Tribromophenol		0.074	0.095	0.109	0.109	0.105	0.112	0.114	0.117	0.113									0.105444	12.72	0.127	1	
4-Bromophenyl-phenylether		0.204	0.205	0.227	0.208	0.203	0.208	0.212	0.213	0.205									0.20932	3.58	0.036	1	0.1
Hexachlorobenzene		0.262	0.256	0.259	0.248	0.233	0.245	0.242	0.25	0.239									0.248393	3.83	0.038	1	0.1
n-octadecane		0.177	0.195	0.218	0.204	0.199	0.193	0.184	0.182	0.169									0.191248	7.81	0.078	1	
Pentachlorophenol			0.068	0.095	0.108	0.121	0.135	0.143	0.15	0.145									0.120594	23.55	0.997	0	0.05
Phenanthrene	1.311	1.311	1.233	1.275	1.222	1.195	1.205	1.212	1.218	1.154									1.233803	4.1	0.041	1	0.7
Anthracene	1.072	1.158	1.184	1.241	1.217	1.178	1.225	1.205	1.221	1.17									1.187262	4.09	0.041	1	0.7
Carbazole	0.99	1.04	1.129	1.189	1.163	1.07	1.046	0.975	0.955	0.874									1.043039	9.48	0.095	1	0.01
Di-n-butyl phthalate		1.407	1.457	1.582	1.557	1.551	1.598	1.577	1.581	1.468									1.530983	4.48	0.045	1	0.01
2-nitrodiphenylamine											0.199	0.219	0.25	0.28	0.311	0.337	0.339	0.346	0.285277	20.16	0.997	0	
Fluoranthene	1.374	1.229	1.328	1.435	1.397	1.362	1.417	1.424	1.424	1.357									1.374696	4.51	0.045	1	0.6
Chrysene-d12																							
Benzidine											0.353	0.387	0.445	0.459	0.52	0.594	0.59	0.603	0.493861	19.78	0.995	0	
Pyrene	1.322	1.41	1.371	1.479	1.392	1.397	1.419	1.404	1.439	1.345									1.39772	3.22	0.032	1	0.6
p-Terphenyl-d14		0.98	1.029	1.043	0.978	0.979	0.99	0.993	1.009	0.966									0.996471	2.59	0.026	1	
Benzylbutyl phthalate		0.717	0.689	0.74	0.708	0.738	0.749	0.736	0.756	0.716									0.727753	2.99	0.03	1	0.01
3,3-Dichlorobenzidine											0.406	0.391	0.399	0.406	0.41	0.427	0.427	0.421	0.411001	3.22	0.032	1	0.01
Benzo(a)anthracene	1.801	1.42	1.275	1.334	1.261	1.279	1.286	1.282	1.293	1.243									1.347376	12.38	0.124	1	0.8
Chrysene	1.207	1.206	1.219	1.298	1.186	1.203	1.2	1.207	1.229	1.152									1.210651	3.05	0.031	1	0.7
bis(2-Ethylhexyl)phthalate		1.009	1.019	1.128	1.049	1.076	1.085	1.087	1.099	1.039									1.065791	3.68	0.037	1	0.01
Di-n-octyl phthalate		1.881	1.763	1.912	1.815	1.871	1.876	1.869	1.895	1.785									1.851733	2.79	0.028	1	0.01
Perylene-d12																							

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS23	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S823E19O	Review Protocol	: SW846	Released On	: 5/20/2015 2:37:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S823E19O -- ICal Updated Time: Wed May 20 14:19:31 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Benzo(b)fluoranthene	1.438	1.35	1.28	1.388	1.318	1.337	1.304	1.296	1.357	1.278									1.334711	3.79	0.038	1	0.7
Benzo(k)fluoranthene	1.404	1.251	1.171	1.258	1.195	1.163	1.224	1.266	1.237	1.23									1.239921	5.45	0.055	1	0.7
Benzo(a)pyrene	1.289	1.231	1.142	1.283	1.198	1.198	1.211	1.216	1.238	1.205									1.221177	3.51	0.035	1	0.7
Indeno(1,2,3-cd)pyrene	1.224	1.268	1.212	1.344	1.253	1.263	1.267	1.256	1.276	1.216									1.257928	3.02	0.03	1	0.5
Dibenz(a,h)anthracene	1.064	1.034	1.007	1.096	1.03	1.057	1.031	1.035	1.044	1.005									1.040191	2.6	0.026	1	0.4
Benzo(g,h,i)perylene	1.03	1.078	1.041	1.133	1.059	1.07	1.077	1.072	1.078	1.035									1.067294	2.76	0.028	1	0.5

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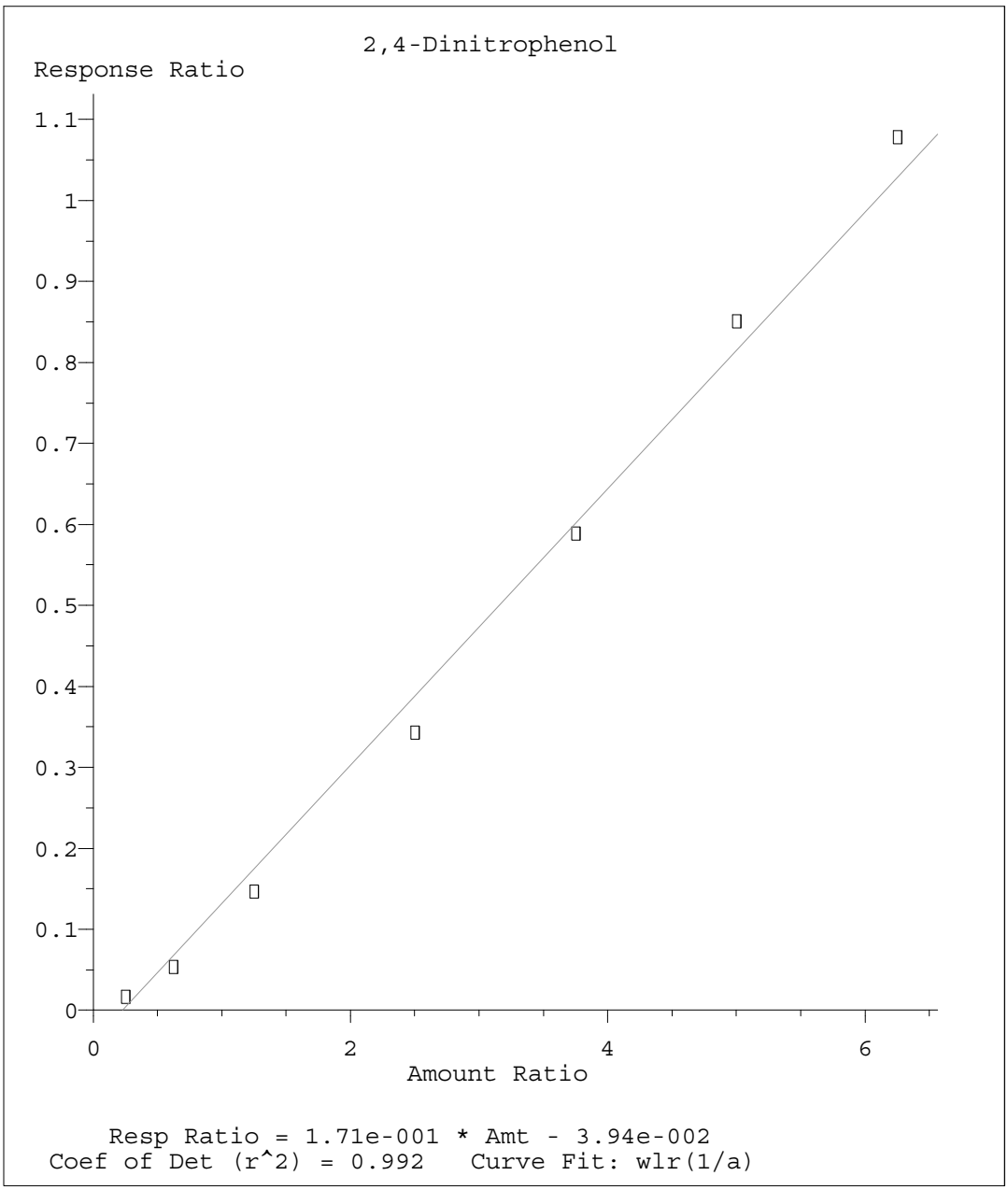
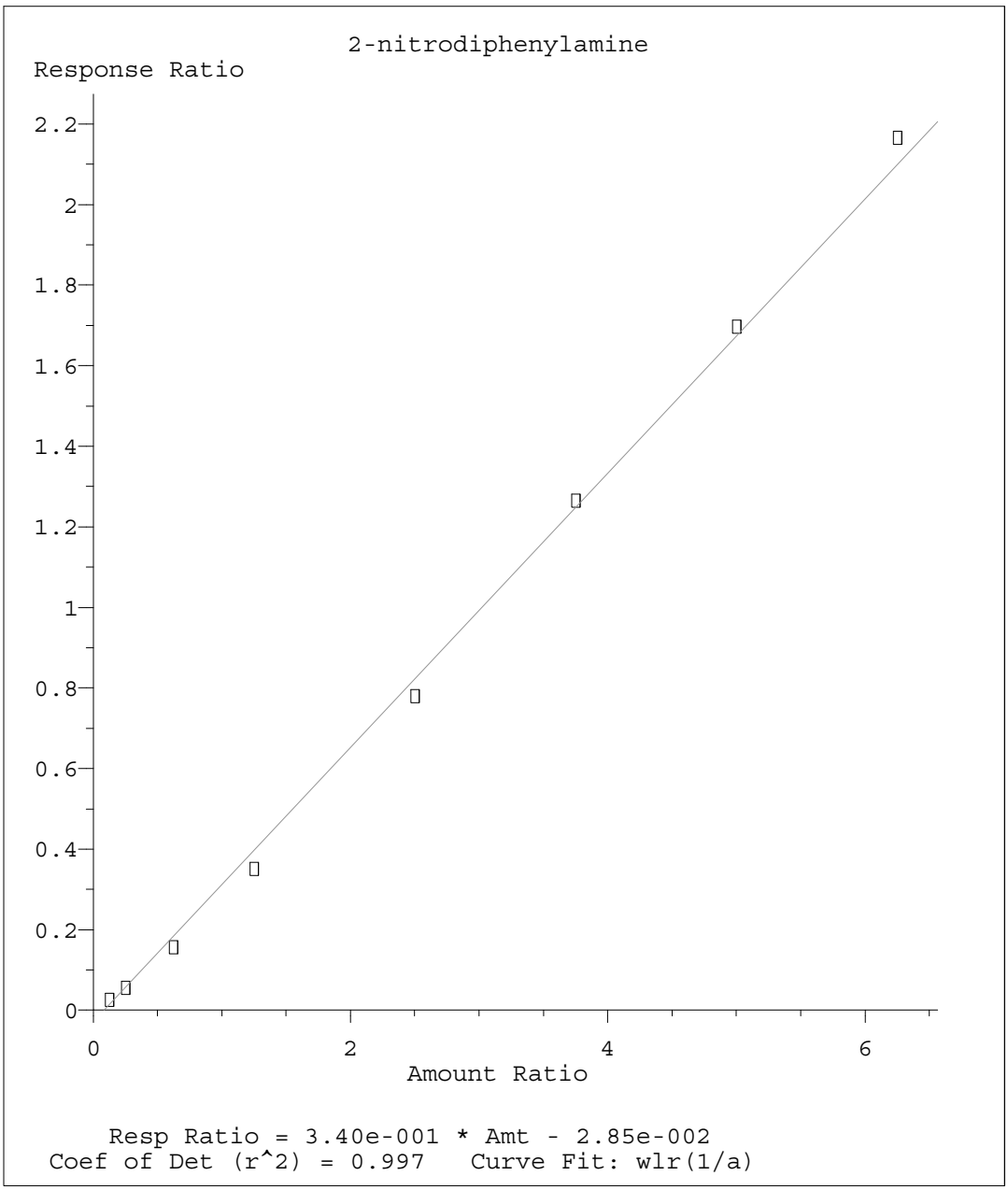
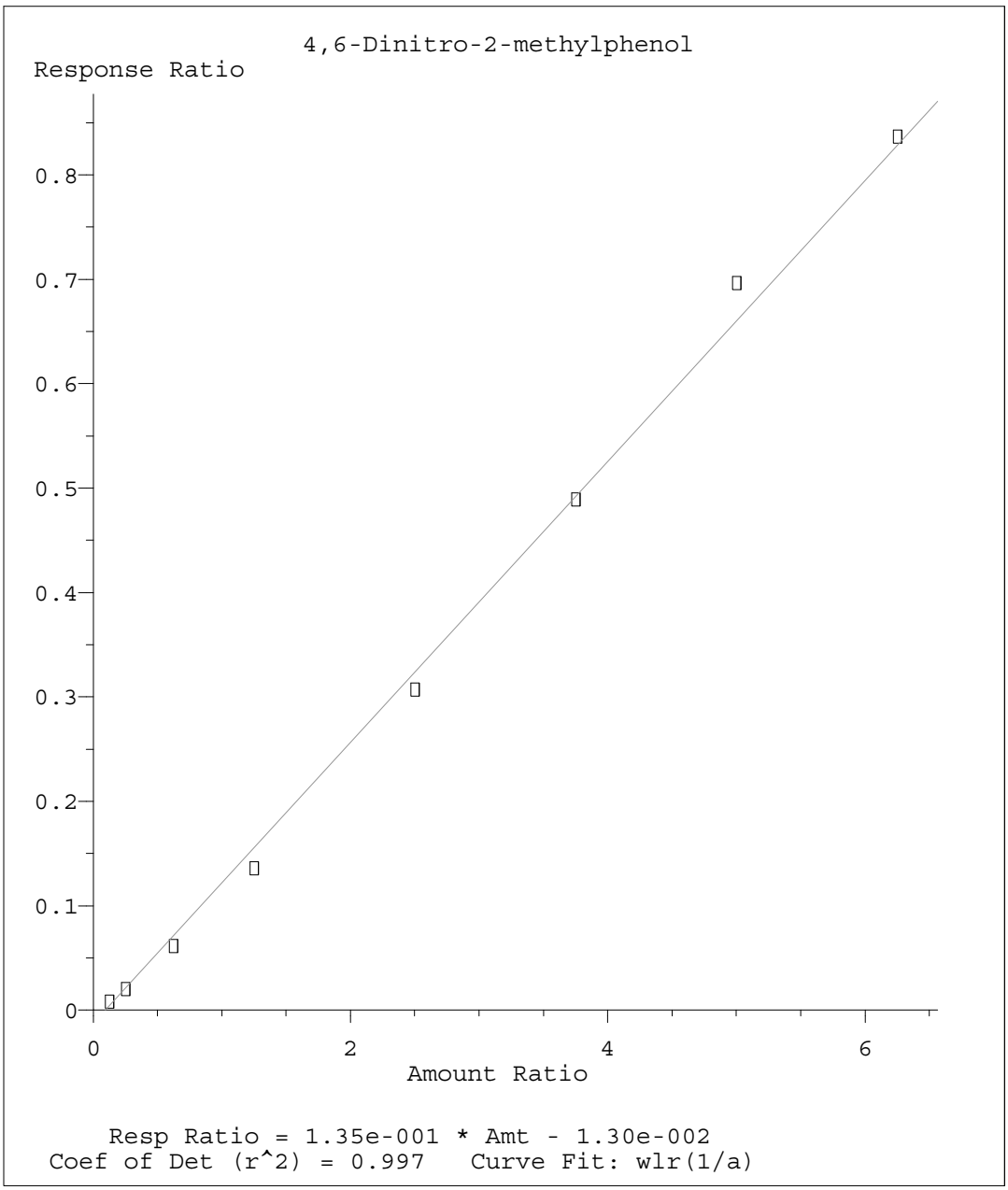


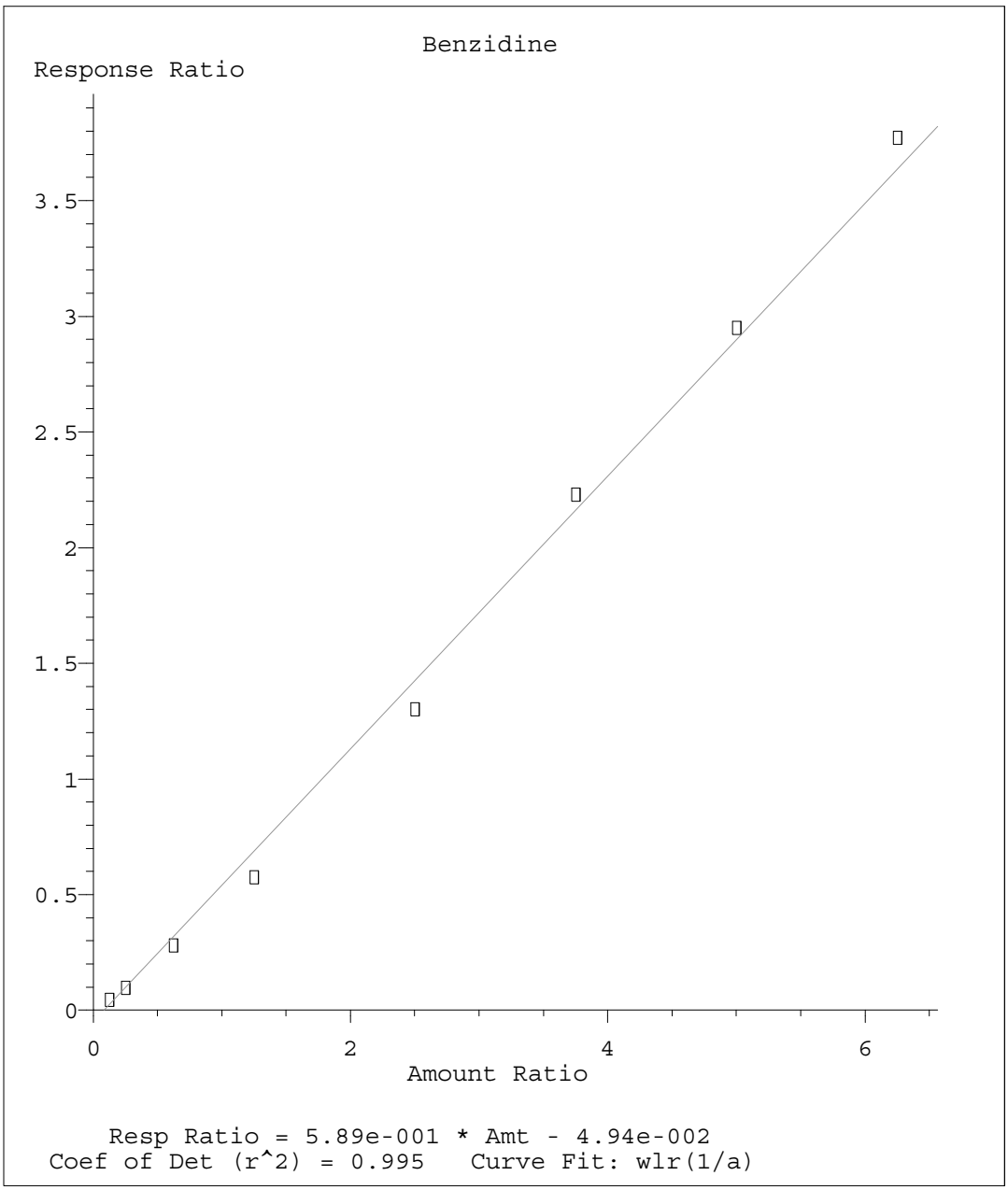
Method Name: C:\msdchem\1\methods\S823E19O.M



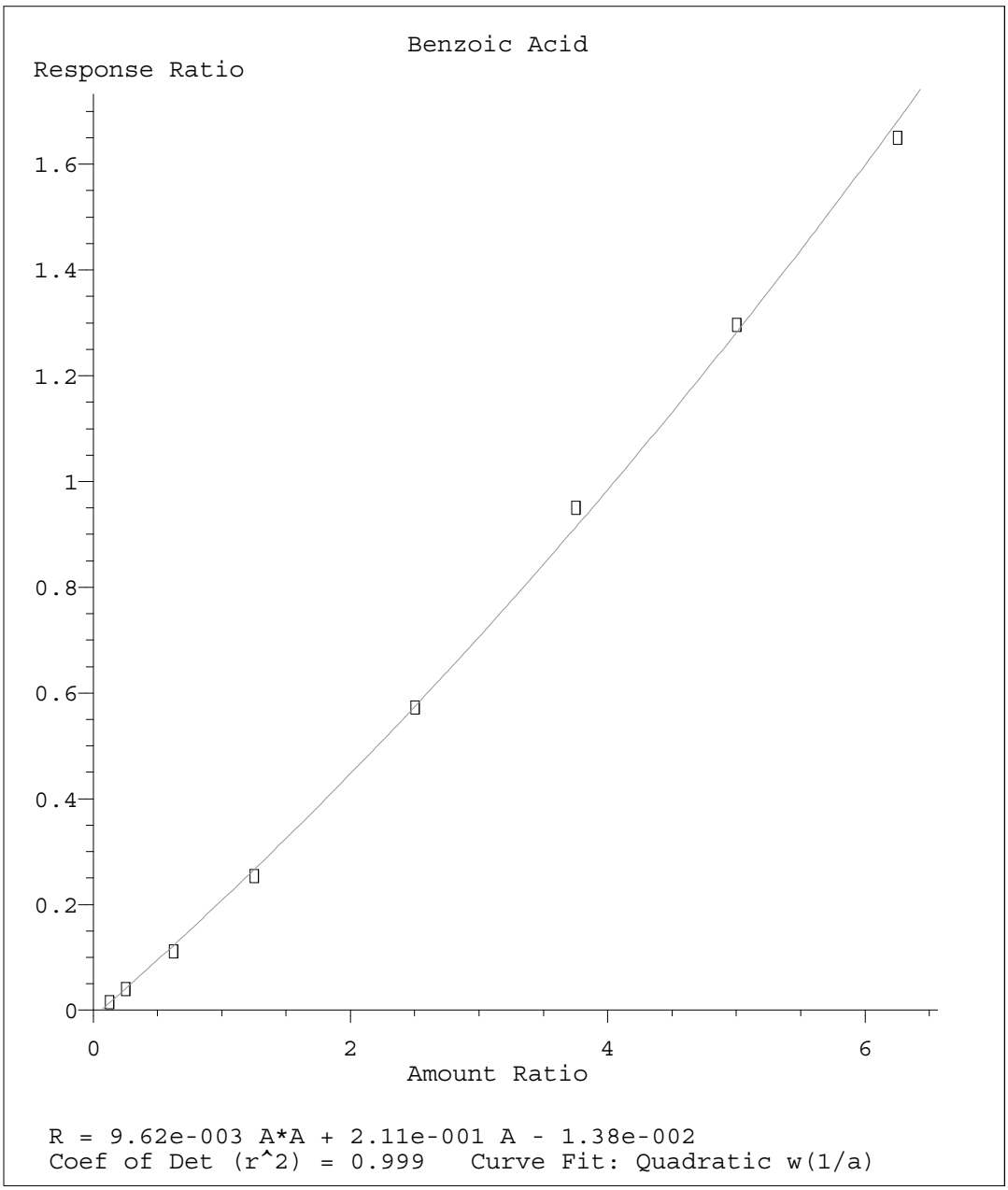
Method Name: C:\msdchem\1\methods\S823E19O.M



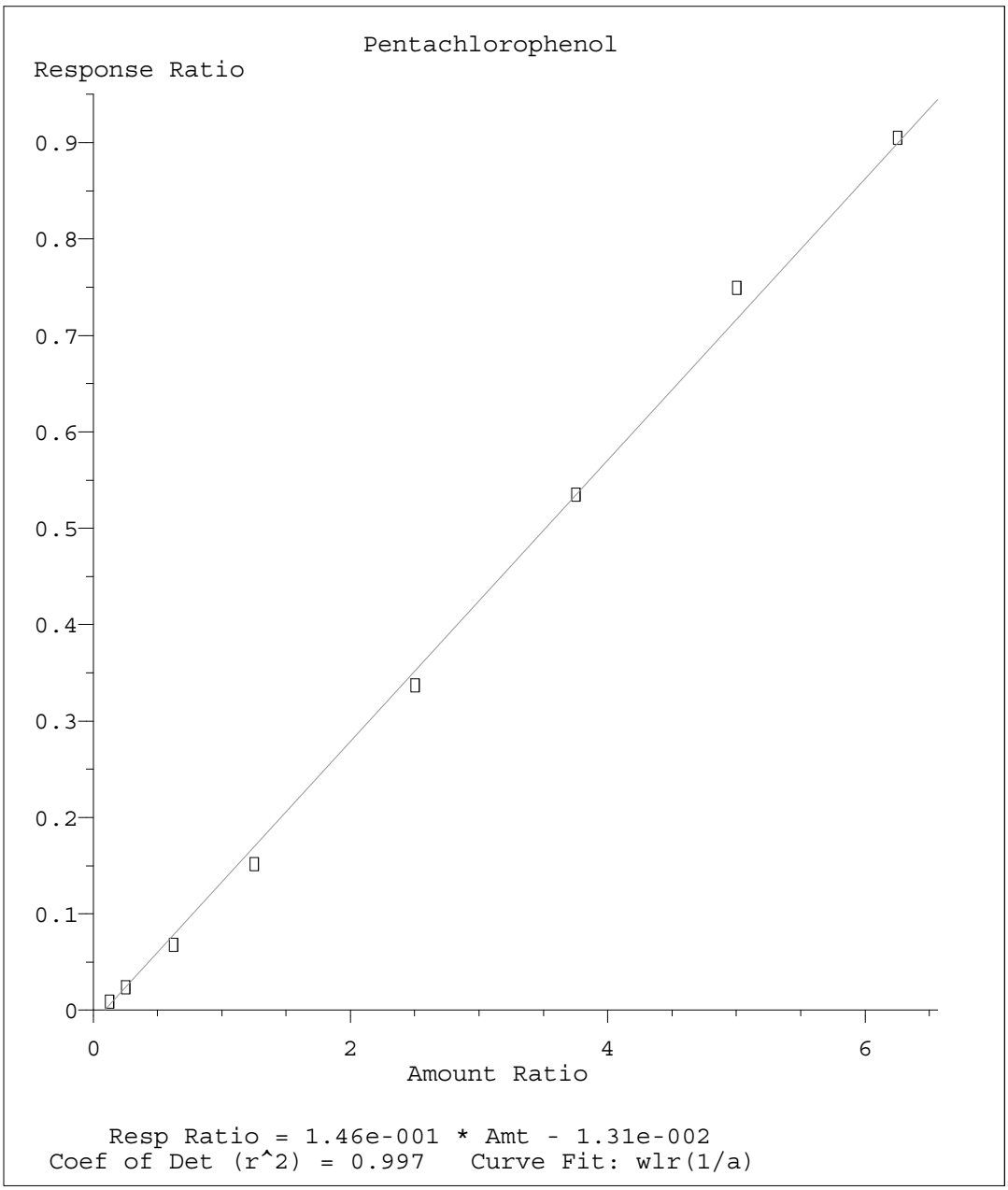
Method Name: C:\msdchem\1\methods\S823E19O.M



Method Name: C:\msdchem\1\methods\S823E19O.M



Method Name: C:\msdchem\1\methods\S823E19O.M



Method Name: C:\msdchem\1\methods\S823E19O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:30:47 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.319	152	104701	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.601	136	415379	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	284414	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.131	188	486625	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	484420	8000.0000000 ppb	0.00
88) Perylene-d12	14.907	264	450761	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D. d	
13) 1,4-Dichlorobenzene	0.000		0	N.D. d	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D. d	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D. d	
17) 2-Methylphenol	0.000		0	N.D. d	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D. d	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	6.625	128	2492	41.7425593 ppb	88
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D. d	
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:30:47 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
37) 2-Methylnaphthalene	7.360	142	1689	40.3965867 ppb	#	92
38) 1-Methylnaphthalene	7.466	142	1391	37.6492955 ppb	#	82
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	0.000		0	N.D. d		
42) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
43) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
45) Biphenyl	7.860	154	2012	39.9472398 ppb		94
46) 2-Chloronaphthalene	7.890	162	1843	44.7424760 ppb		94
47) 2-Nitroaniline	0.000		0	N.D. d		
48) Acenaphthylene	8.342	152	2052	32.1686324 ppb		90
49) Dimethyl phthalate	0.000		0	N.D. d		
50) 2,6-Dinitrotoluene	0.000		0	N.D. d		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) Acenaphthene	8.531	153	1689	39.4281872 ppb		92
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	8.719	168	2342	38.8681836 ppb	#	91
55) 2,4-Dinitrotoluene	0.000		0	N.D. d		
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	0.000		0	N.D. d		
58) Fluorene	9.095	166	1830	36.7783635 ppb		97
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
60) Diethyl phthalate	0.000		0	N.D. d		
61) 4-Nitroaniline	0.000		0	N.D. d		
62) Azobenzene	0.000		0	N.D. d		
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D. d		
68) 4-Bromophenyl-phenylether	0.000		0	N.D. d		
69) Hexachlorobenzene	0.000		0	N.D. d		
70) n-octadecane	0.000		0	N.D. d		
71) Pentachlorophenol	0.000		0	N.D.		
72) Phenanthrene	10.154	178	3190	42.5050469 ppb		92
73) Anthracene	10.213	178	2609	36.1262573 ppb		86
74) Carbazole	10.384	167	2408	37.9534679 ppb		98
75) Di-n-butyl phthalate	0.000		0	N.D. d		
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	3344	39.9903367 ppb		91
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.725	202	3202	37.8328480 ppb		96
82) Benzylbutyl phthalate	0.000		0	N.D. d		
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d		
84) Benzo(a)anthracene	13.030	228	4362m	53.4644262 ppb		
85) Chrysene	13.066	228	2924	39.8865320 ppb		83
86) bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
87) Di-n-octyl phthalate	0.000		0	N.D. d		
89) Benzo(b)fluoranthene	14.336	252	3240m	43.0825507 ppb		
90) Benzo(k)fluoranthene	14.372	252	3249m	46.5049678 ppb		
91) Benzo(a)pyrene	14.819	252	2906	42.2338640 ppb		90
92) Indeno(1,2,3-cd)pyrene	16.801	276	2758	38.9118593 ppb	#	79
93) Dibenz(a,h)anthracene	16.813	278	2399	40.9318021 ppb		81
94) Benzo(g,h,i)perylene	17.389	276	2322	38.6119714 ppb		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:30:47 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

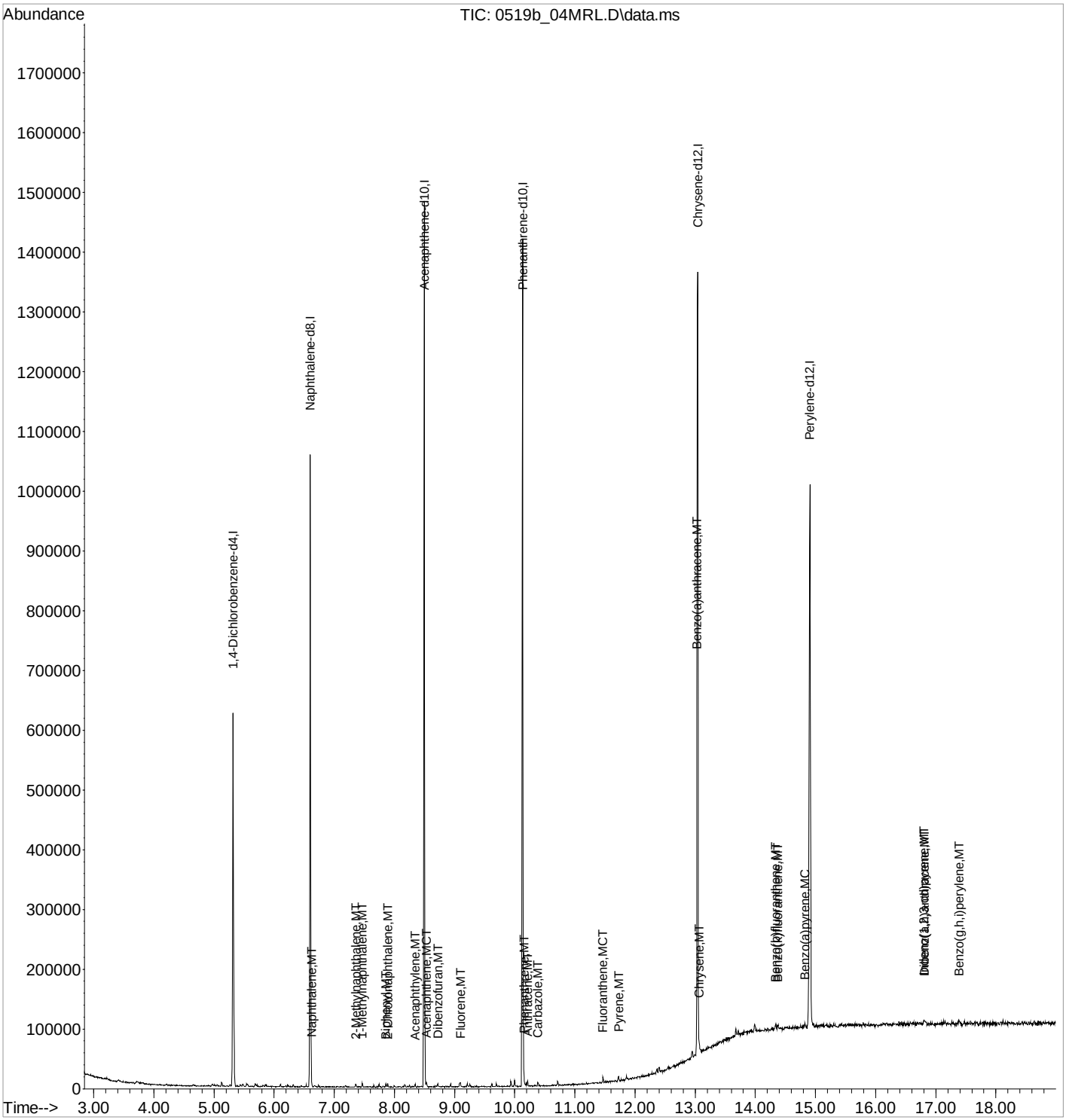
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:30:47 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On    : 19 May 2015   6:08 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:52:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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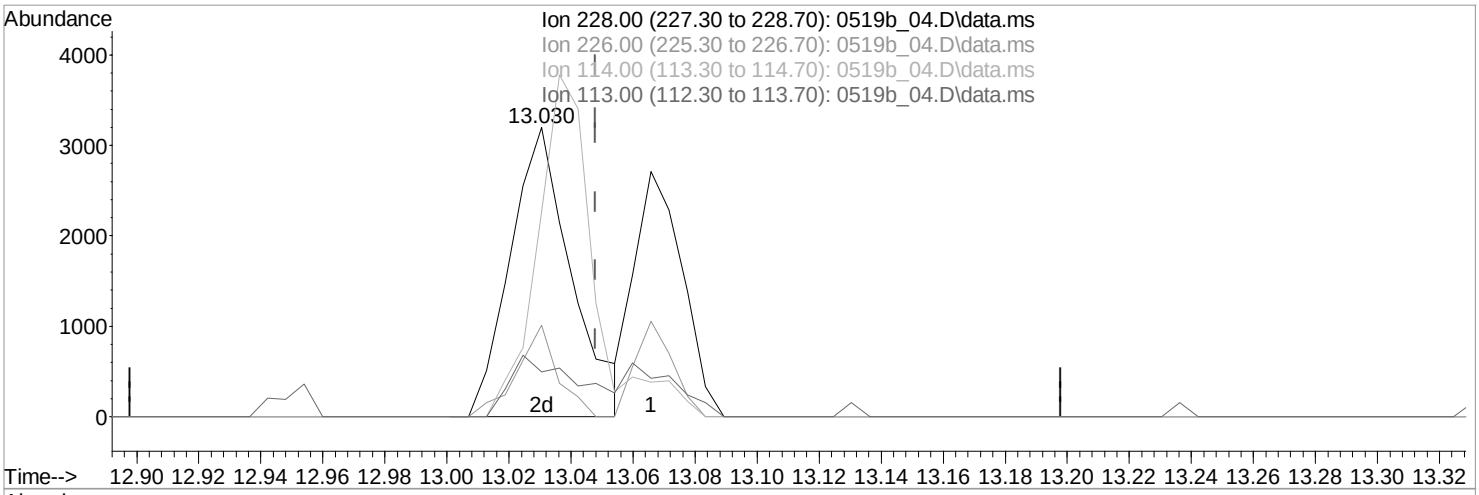

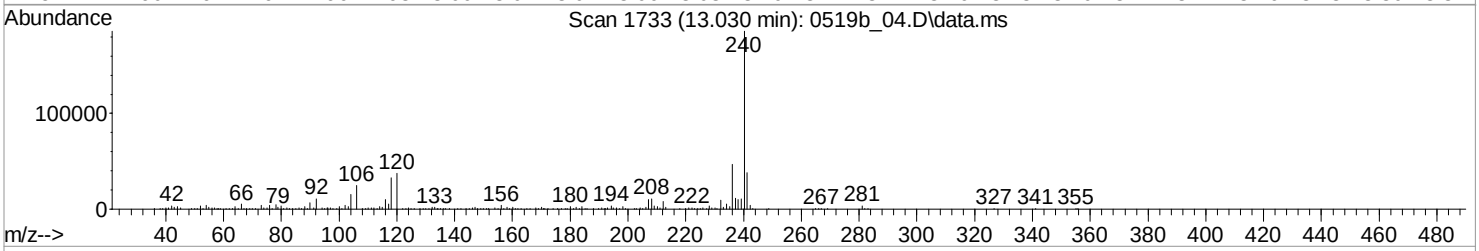

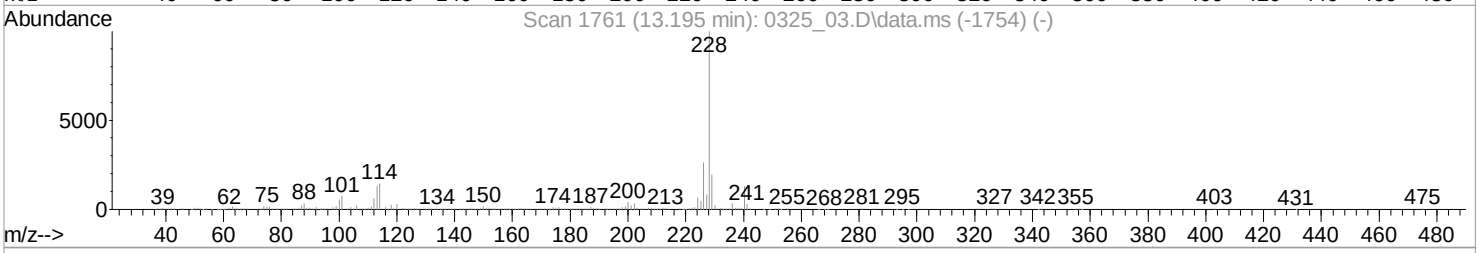

TIC: 0519b_04.D\data.ms

(84) Benzo(a)anthracene (MT)

13.030min (-0.018) 56.3335221 ppb m

response 4362

Ion	Exp%	Act%
228.00	100	100
226.00	26.10	35.86
114.00	13.00	80.14#
113.00	12.00	17.59

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On    : 19 May 2015   6:08 pm
Operator  : 377
Sample    : MRL SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:24:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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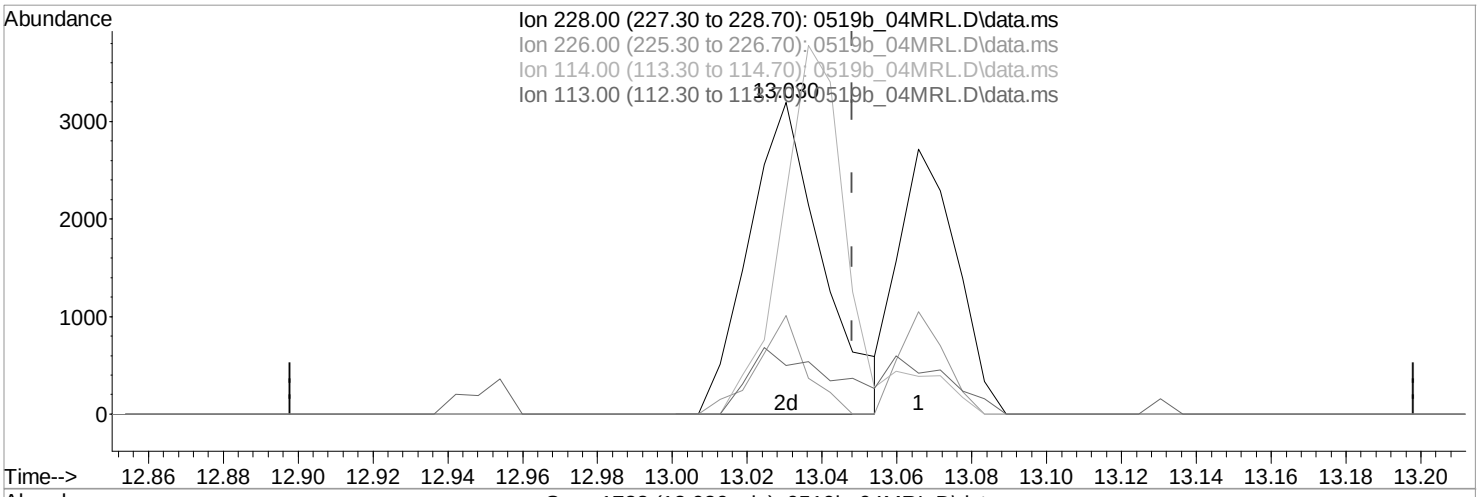
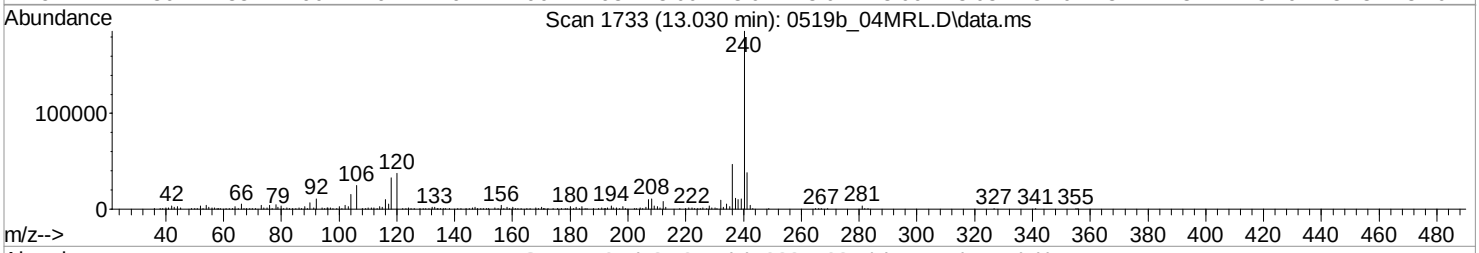
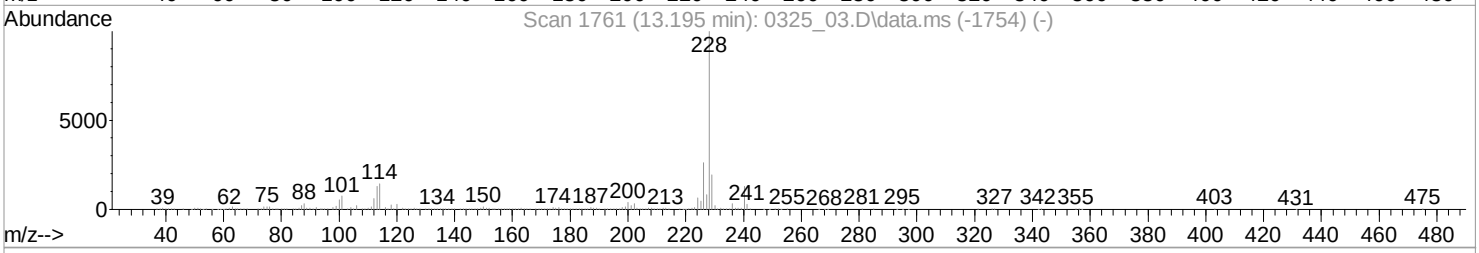






TIC: 0519b_04MRL.D\data.ms

(84) Benzo(a)anthracene (MT)

13.030min (-0.018) 53.4644262 ppb m

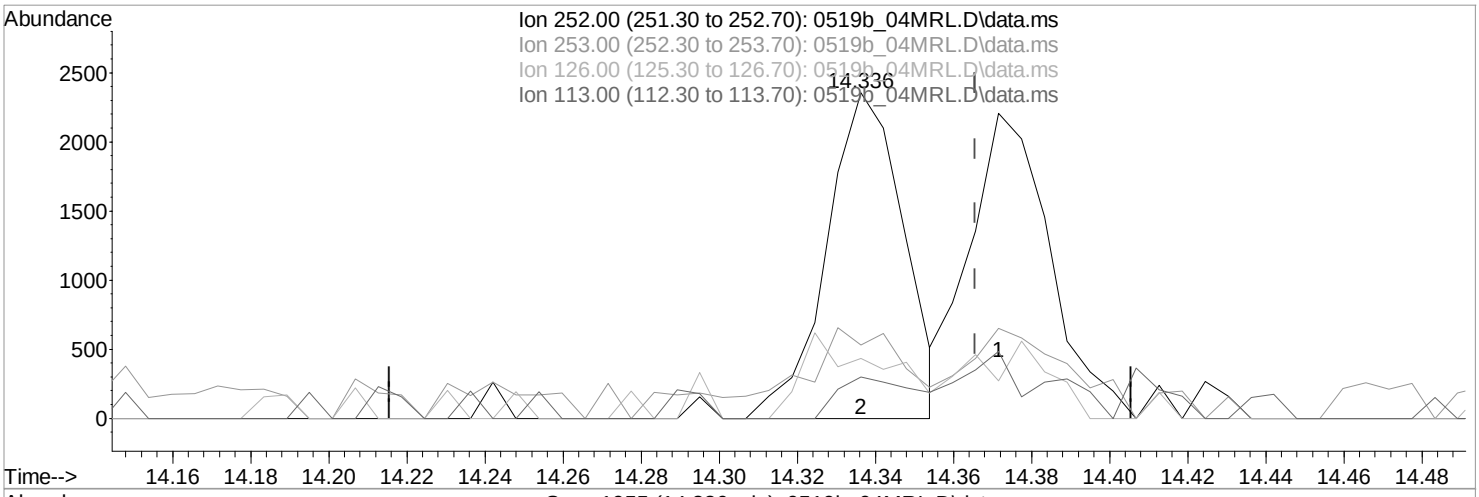
response 4362

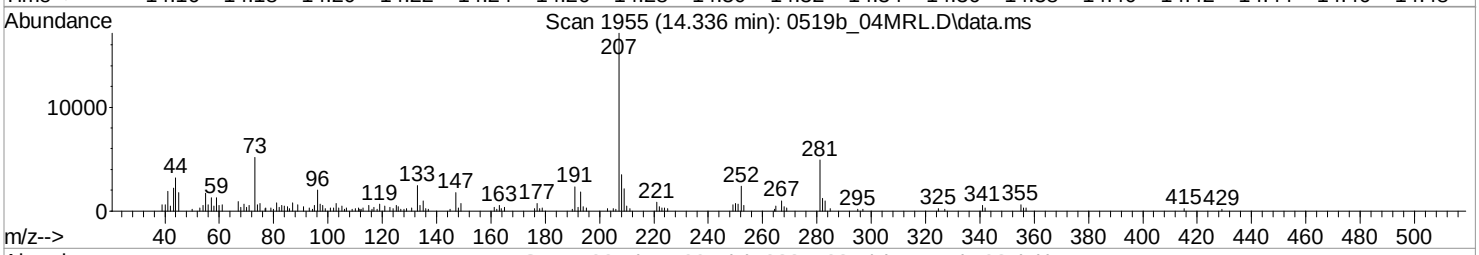
Ion	Exp%	Act%
228.00	100	100
226.00	26.10	35.86
114.00	13.00	80.14#
113.00	12.00	17.59

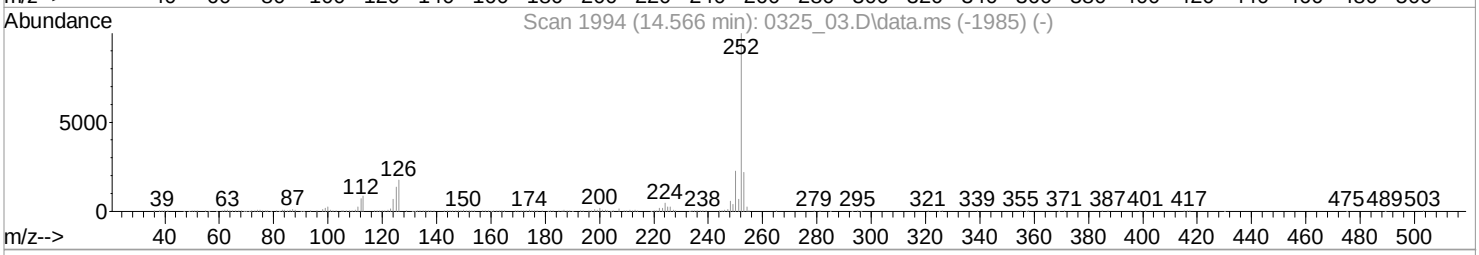
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:24:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_04MRL.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 43.0825507 ppb m

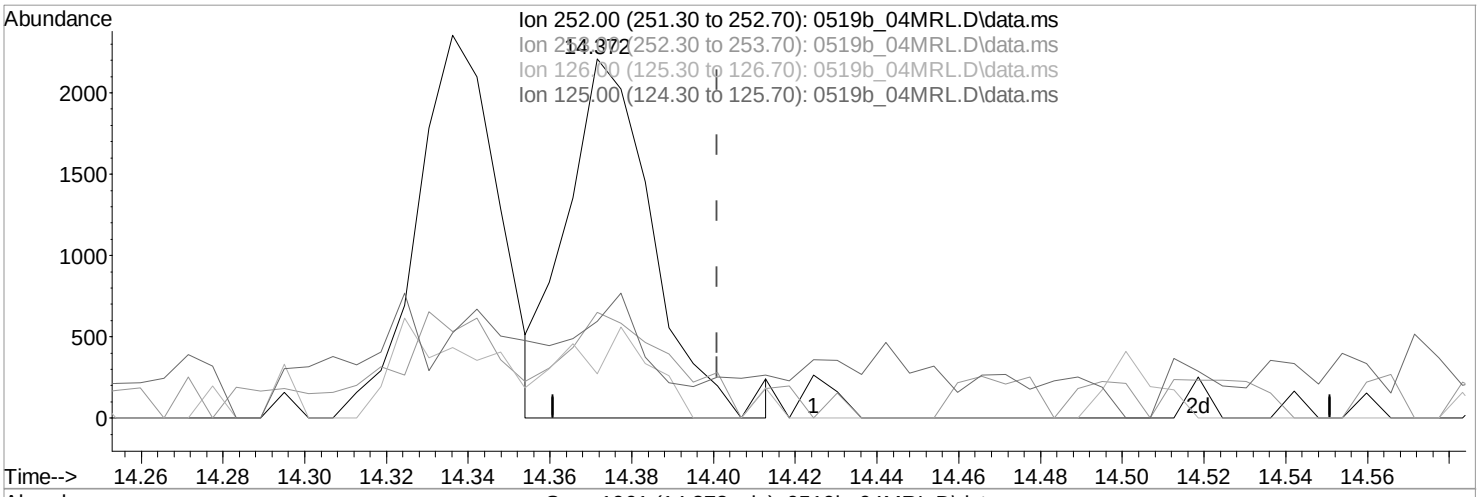
response 3240

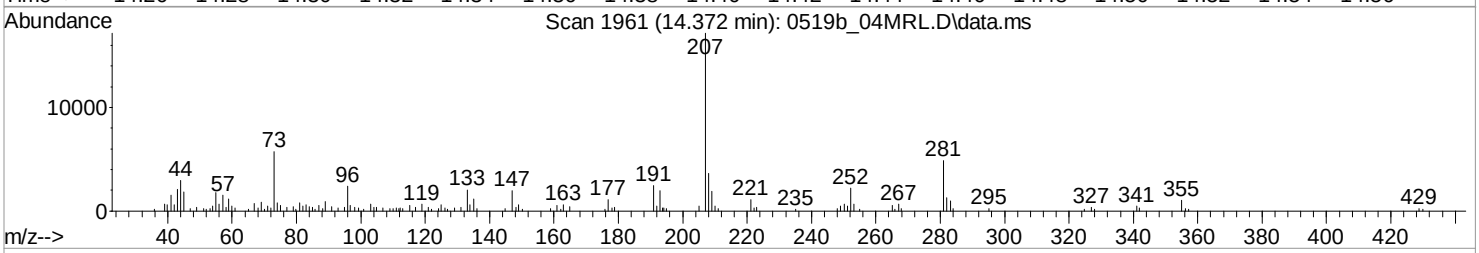
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.59
126.00	16.30	18.39
113.00	8.60	12.78

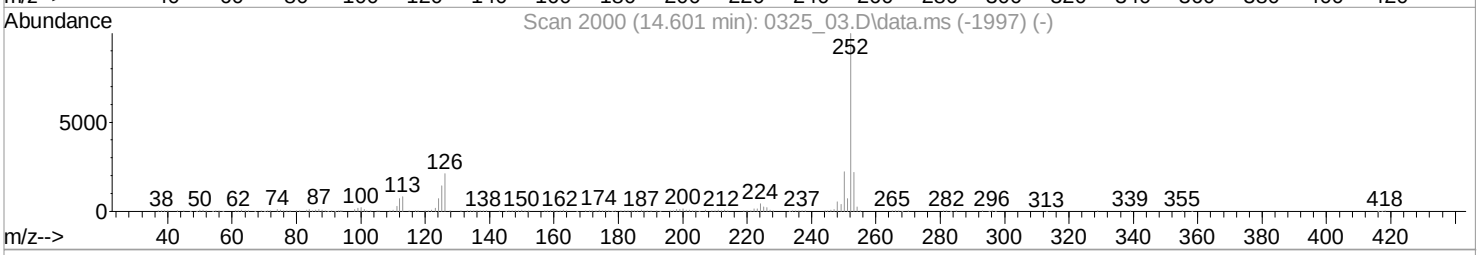
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04MRL.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:24:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_04MRL.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.372min (-0.029) 46.5049678 ppb m

response 3249

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	29.53
126.00	19.40	12.32
125.00	13.30	26.95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:31:45 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	92884	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.601	136	375605	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	249476	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.130	188	430721	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	432684	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	412549	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.213	112	2649	190.0382255 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 950.19%#		
7) Phenol-d5	4.960	99	3386	177.9154084 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 889.58%#		
23) Nitrobenzene-d5	5.854	82	3705	187.8253716 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 1878.25%#		
44) 2-Fluorobiphenyl	7.742	172	7849	196.0067797 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 1960.07%#		
67) 2,4,6-Tribromophenol	9.360	330	796	140.2123900 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 701.06%#		
81) p-Terphenyl-d14	11.854	244	10604	196.7542530 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 1967.54%#		
Target Compounds					Qvalue
2) Pyridine	3.231	79	4103	182.7979962 ppb #	82
3) N-Nitrosodimethylamine	3.190	42	2918m	237.8514776 ppb	
5) Aniline	5.013	66	1924	185.7174996 ppb	85
6) bis(2-Chloroethyl)ether	5.048	63	3183	206.8991767 ppb	88
8) Phenol	4.978	94	3891	185.1188855 ppb	87
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.125	128	3224	192.7254672 ppb	97
11) n-Decane	5.125	41	2851m	254.2375567 ppb	
12) 1,3-Dichlorobenzene	5.260	146	3684	196.0666771 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	3603m	190.2607989 ppb	
14) Benzyl Alcohol	5.437	79	2552	175.3270272 ppb	100
15) 1,2-Dichlorobenzene	5.478	146	3645	198.6543033 ppb	95
16) bis(2-Chloroisopropyl)...	5.560	121	1124	202.5987797 ppb #	77
17) 2-Methylphenol	5.537	108	3057	208.9467468 ppb	95
18) Hexachloroethane	5.813	117	1865	203.5474231 ppb #	81
19) N-Nitrosodi-n-propylamine	5.678	70	1838	195.7266975 ppb	92
20) 3&4-Methyl phenol	5.690	107	3087	182.8092348 ppb	91
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.872	77	3846	196.8487560 ppb	95
25) Isophorone	6.101	82	6882	195.8354561 ppb	90
26) 2-Nitrophenol	6.195	139	1457	165.2772402 ppb	95
27) 2,4-Dimethylphenol	6.225	107	3183	177.3786759 ppb	94
28) bis(2-Chlorethoxy)methane	6.319	93	4248	193.2591965 ppb	87
29) 2,4-Dichlorophenol	6.448	162	2582	174.1168500 ppb	93
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.531	180	3302	201.7956144 ppb	91
32) Naphthalene	6.619	128	11150	206.5470867 ppb	99
33) 4-Chloroaniline	6.672	65	1293	166.8452692 ppb #	82
34) Hexachloro-1,3-butadiene	6.737	225	2383	221.7409806 ppb	95
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:31:45 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.189	107	2813	172.5940571 ppb		84
37) 2-Methylnaphthalene	7.360	142	7585	200.6244127 ppb		97
38) 1-Methylnaphthalene	7.466	142	6649	199.0211489 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	1101	99.8141324 ppb		88
42) 2,4,6-Trichlorophenol	7.660	196	1902	176.0705180 ppb		94
43) 2,4,5-Trichlorophenol	7.713	196	2102m	182.5200846 ppb		
45) Biphenyl	7.860	154	9028	204.3490150 ppb		96
46) 2-Chloronaphthalene	7.889	162	7267	201.1277693 ppb		97
47) 2-Nitroaniline	7.995	138	1324	116.5619085 ppb	#	67
48) Acenaphthylene	8.342	152	10640	190.1599555 ppb		94
49) Dimethyl phthalate	8.172	163	7885	191.7088501 ppb		94
50) 2,6-Dinitrotoluene	8.248	165	1473	160.7652384 ppb		96
51) 3-Nitroaniline	8.442	138	1402	154.4975149 ppb		89
52) Acenaphthene	8.531	153	7532	200.4516658 ppb		90
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	8.719	168	10723	202.8830939 ppb		99
55) 2,4-Dinitrotoluene	8.689	165	1772	145.6881584 ppb		86
56) 2,3,4,6-Tetrachlorophenol	8.848	232	1559	193.6101229 ppb		93
57) 4-Nitrophenol	8.654	139	681	90.4410616 ppb	#	91
58) Fluorene	9.095	166	8567	196.2873340 ppb		95
59) 4-Chlorophenyl-phenyle...	9.083	204	4017	202.1550943 ppb		96
60) Diethyl phthalate	8.936	149	8729	197.9592441 ppb		96
61) 4-Nitroaniline	9.113	138	1160	136.3030831 ppb	#	81
62) Azobenzene	9.254	77	8485	178.3360723 ppb		97
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	503	840.3769182 ppb	#	59
66) N-Nitrosodiphenylamine	9.207	169	6669	190.2673301 ppb		93
68) 4-Bromophenyl-phenylether	9.619	248	2193	194.5910582 ppb	#	82
69) Hexachlorobenzene	9.695	284	2822	211.0140275 ppb		90
70) n-octadecane	9.936	55	2674	259.6913930 ppb	#	88
71) Pentachlorophenol	9.919	266	390	769.6155567 ppb	#	78
72) Phenanthrene	10.154	178	14120	212.5606570 ppb		98
73) Anthracene	10.213	178	12465	195.0022150 ppb		96
74) Carbazole	10.383	167	11194	199.3327486 ppb		98
75) Di-n-butyl phthalate	10.713	149	15154	183.8446425 ppb		98
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	13238	178.8584814 ppb		97
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.719	202	15251	201.7424348 ppb		95
82) Benzylbutyl phthalate	12.360	149	7759	197.1246574 ppb		88
83) 3,3-Dichlorobenzidine	13.048	252	61	2.7441373 ppb	#	1
84) Benzo(a)anthracene	13.024	228	15361m	210.7899824 ppb		
85) Chrysene	13.066	228	13047	199.2557215 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.948	149	10916	189.3697234 ppb		98
87) Di-n-octyl phthalate	13.671	149	20348	203.1713739 ppb		99
89) Benzo(b)fluoranthene	14.336	252	13928m	202.3559367 ppb		
90) Benzo(k)fluoranthene	14.371	252	12902m	201.7796987 ppb		
91) Benzo(a)pyrene	14.818	252	12698	201.6375096 ppb		91
92) Indeno(1,2,3-cd)pyrene	16.801	276	13076	201.5734959 ppb		96
93) Dibenz(a,h)anthracene	16.818	278	10660	198.7277965 ppb		93
94) Benzo(g,h,i)perylene	17.377	276	11119	202.0208925 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:31:45 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

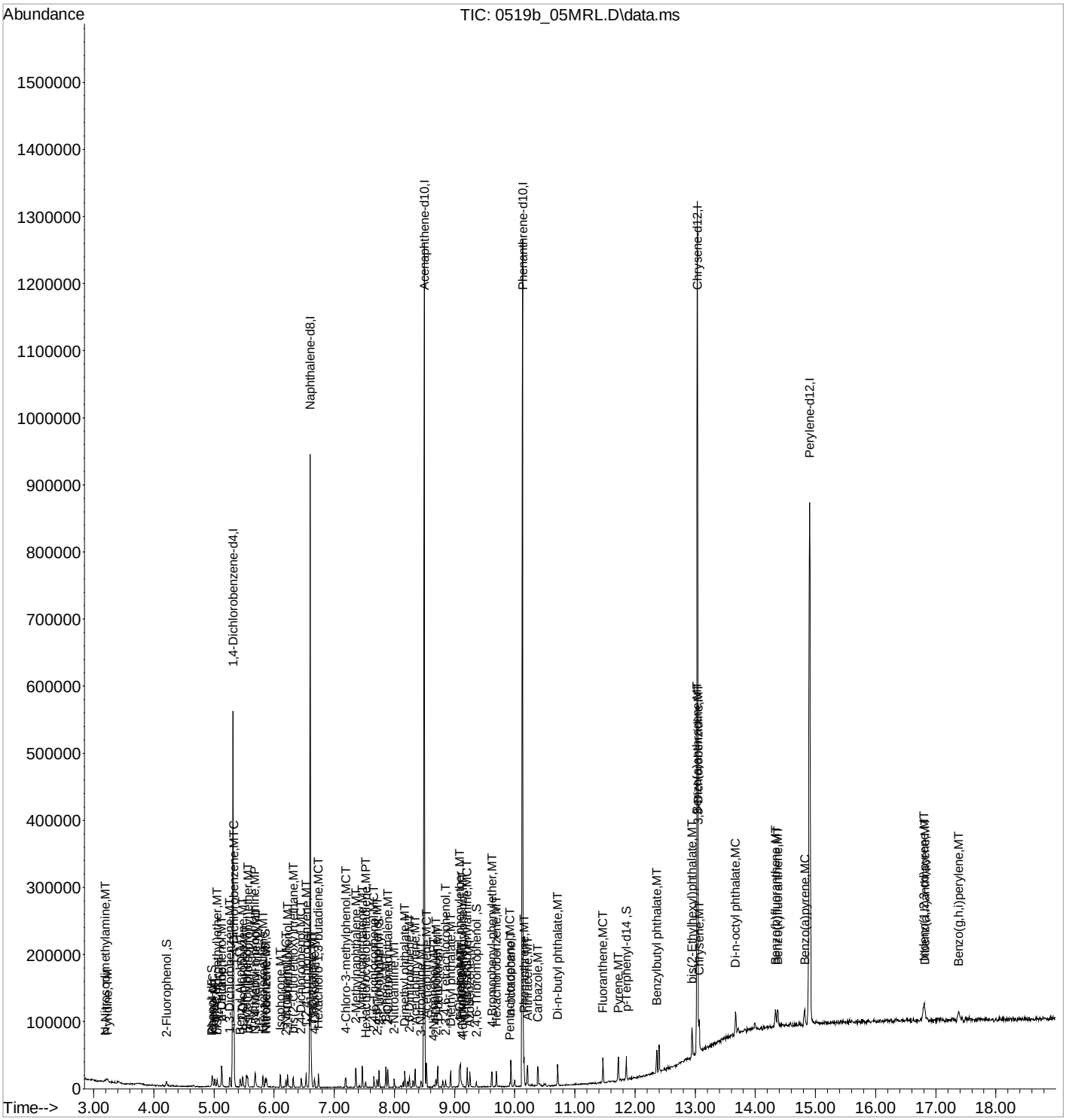
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

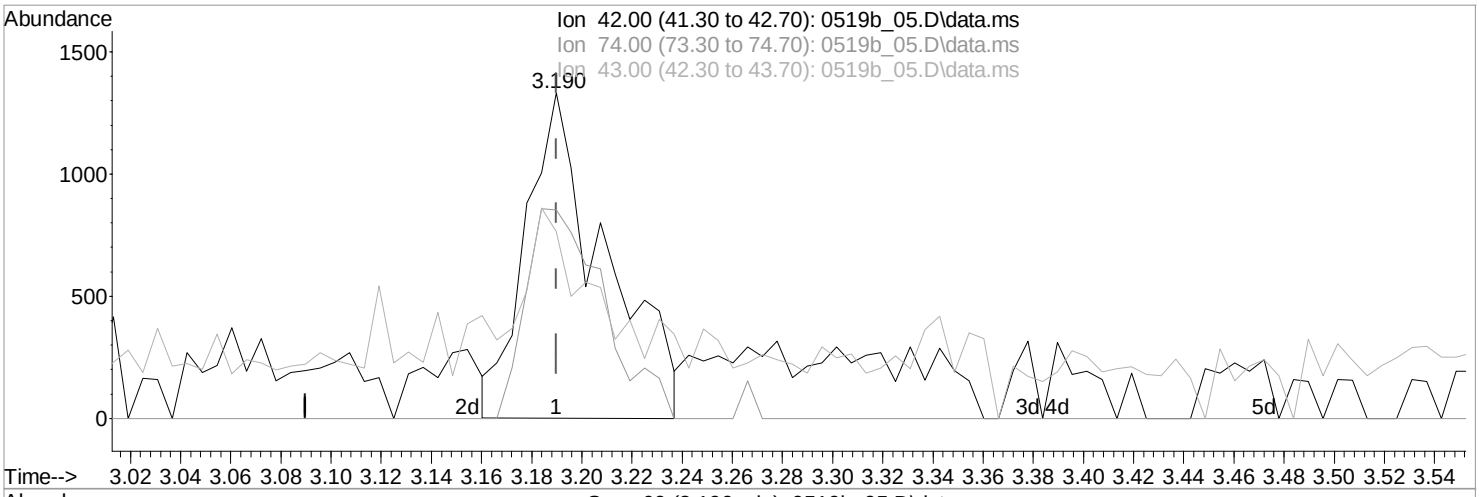
Quant Time: May 20 14:31:45 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

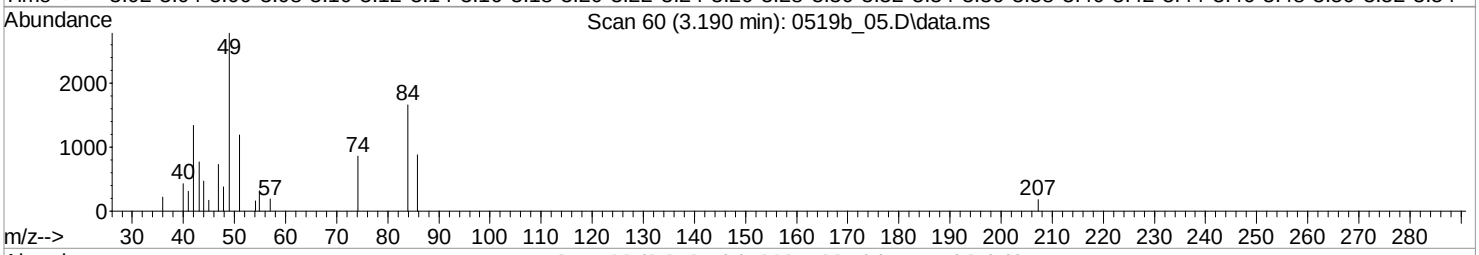


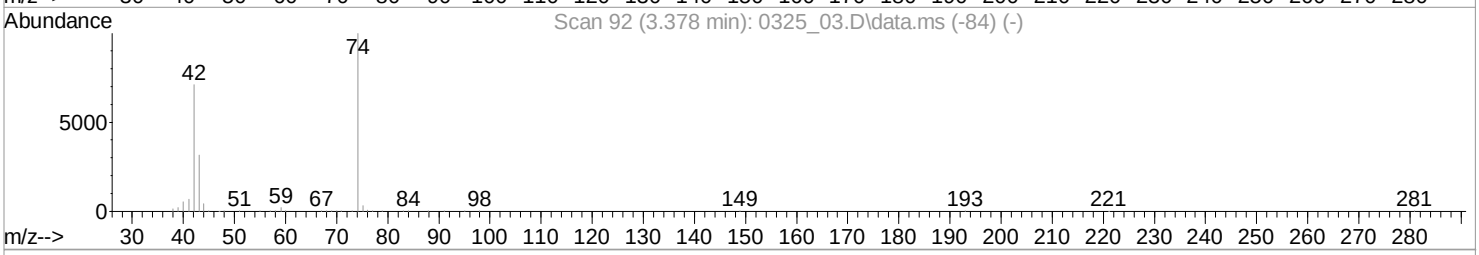
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.190min (0.000) 240.7356270 ppb m

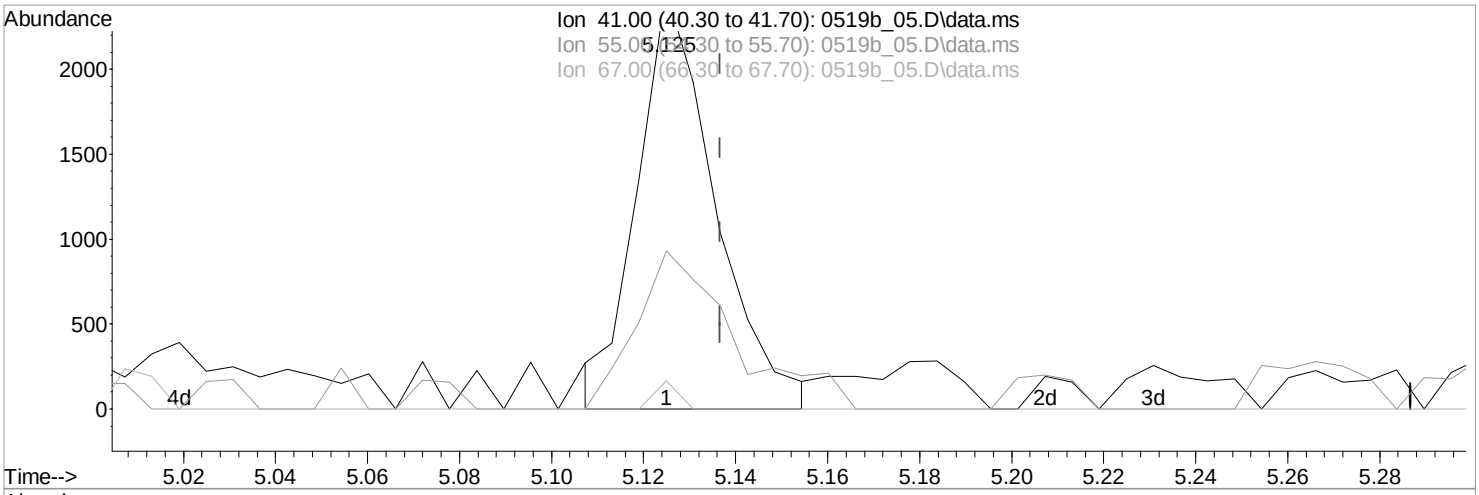
response 2916

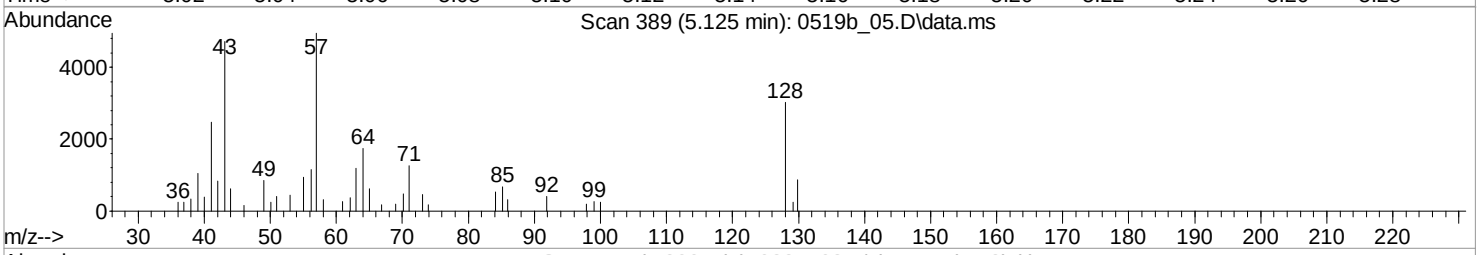
Ion	Exp%	Act%
42.00	100	100
74.00	89.60	63.75#
43.00	50.70	133.09#
0.00	0.00	0.00

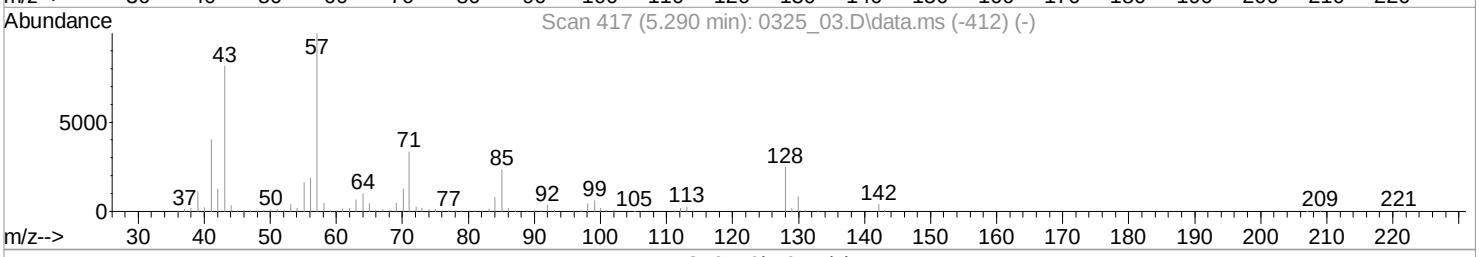
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_05.D\data.ms

(11) n-Decane (T)

5.125min (-0.012) 252.2346696 ppb m

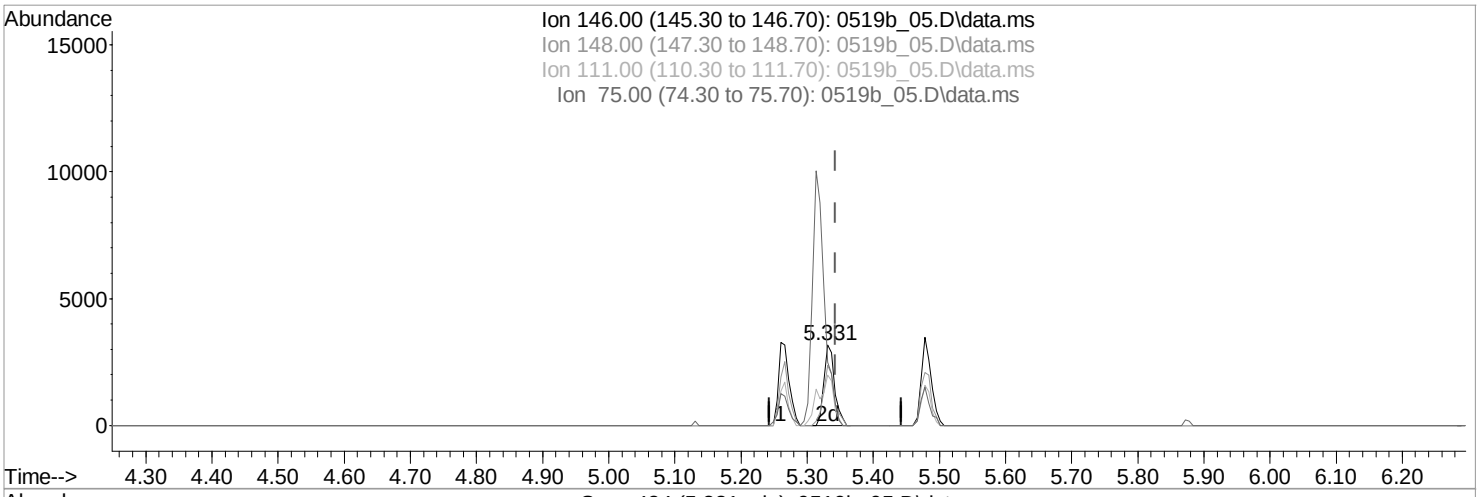
response 2851

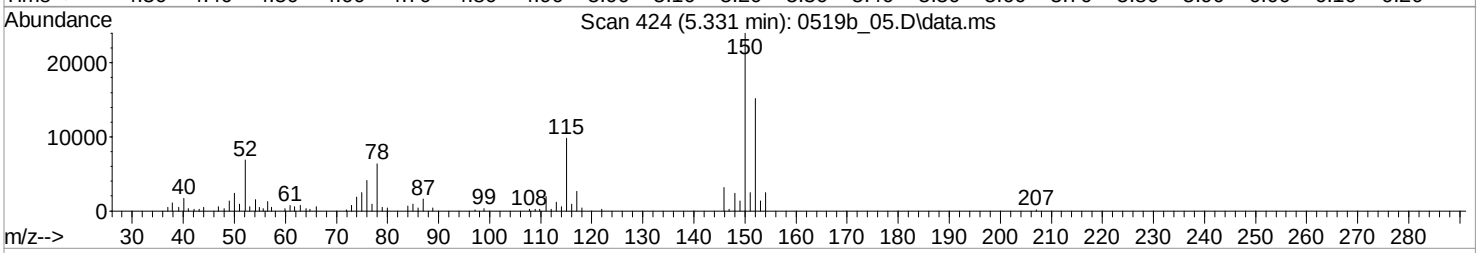
Ion	Exp%	Act%
41.00	100	100
55.00	39.60	48.33#
67.00	2.70	2.07#
0.00	0.00	0.00

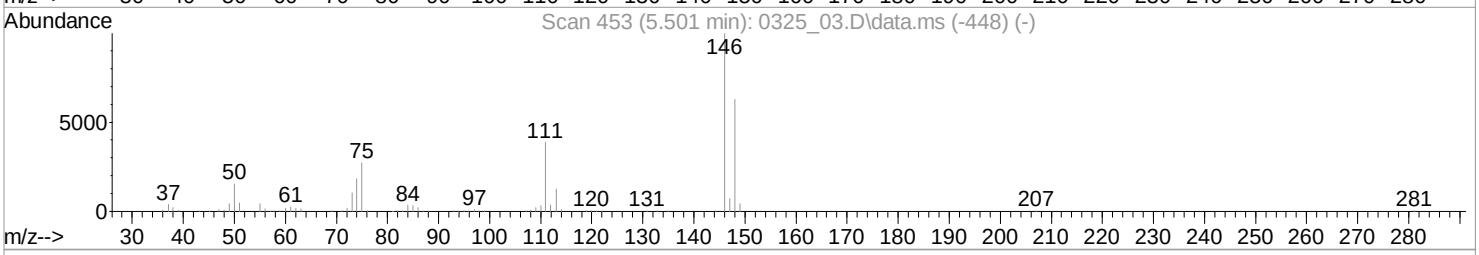
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.331min (-0.012) 191.3001274 ppb m

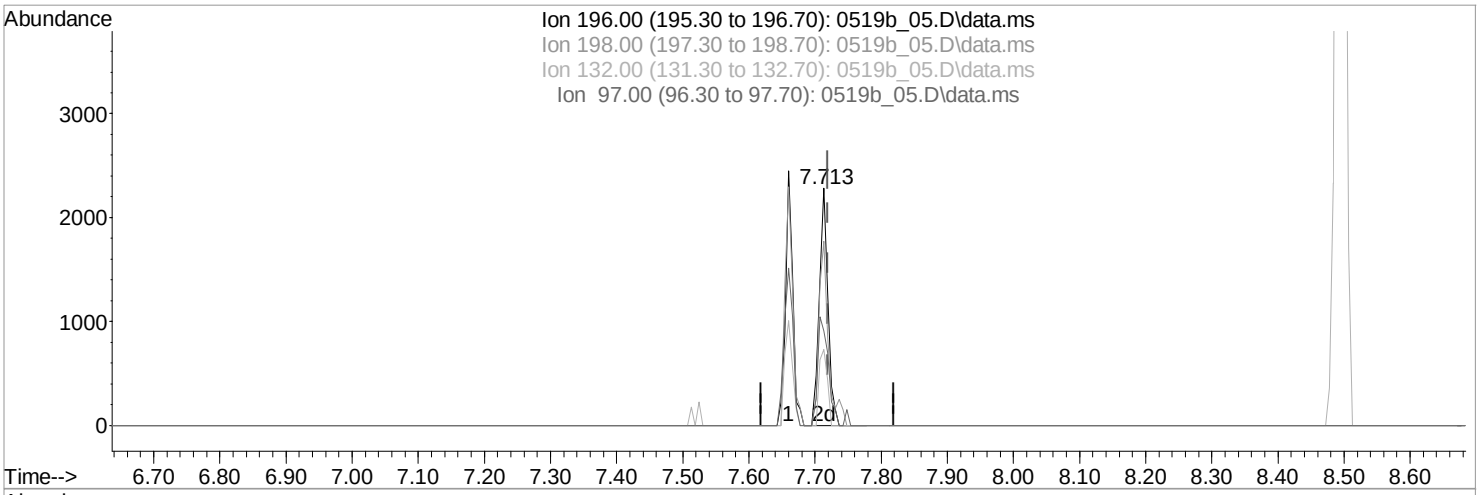
response 3602

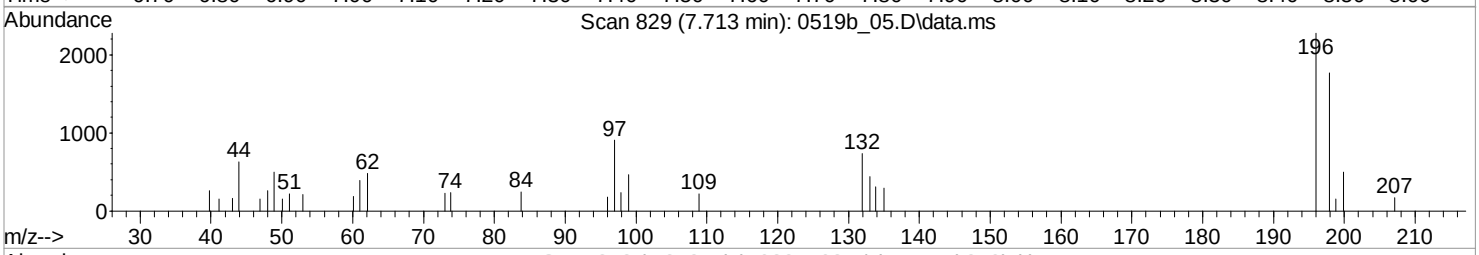
Ion	Exp%	Act%
146.00	100	100
148.00	62.30	74.15
111.00	42.90	62.37
75.00	35.30	78.55#

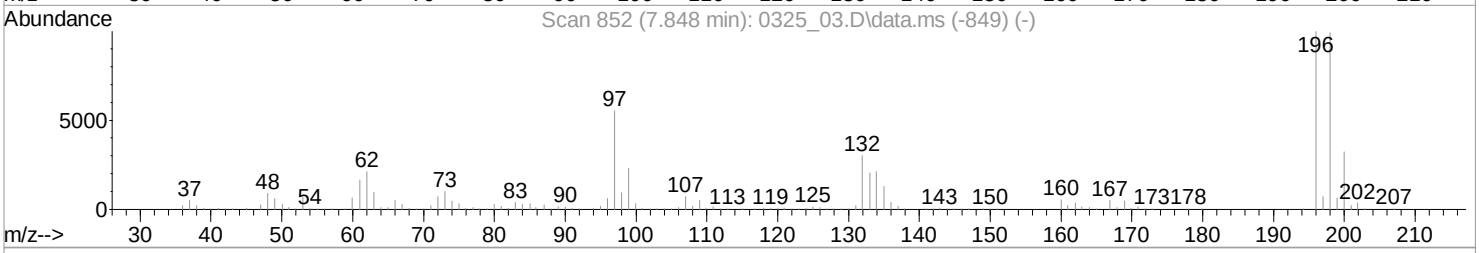
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(43) 2,4,5-Trichlorophenol (MT)

7.713min (-0.006) 187.7692786 ppb m

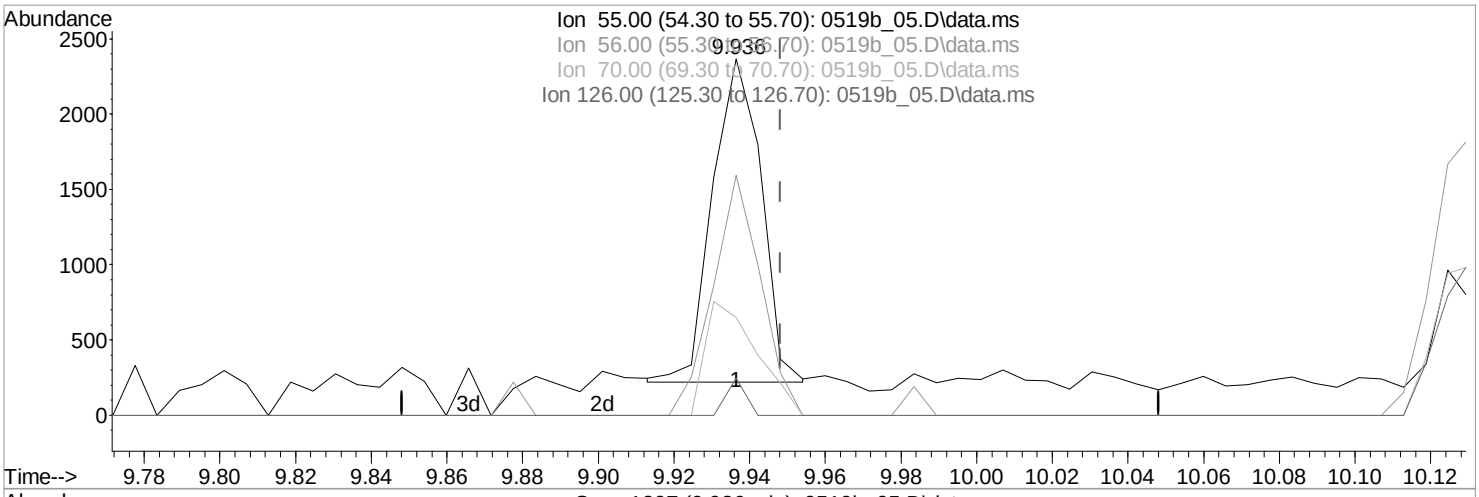
response 2101

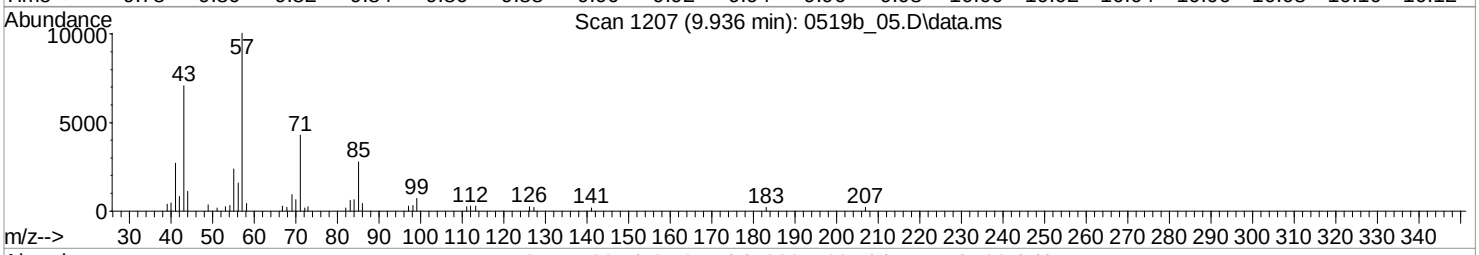
Ion	Exp%	Act%
196.00	100	100
198.00	96.60	77.55
132.00	31.40	32.18
97.00	66.90	39.76#

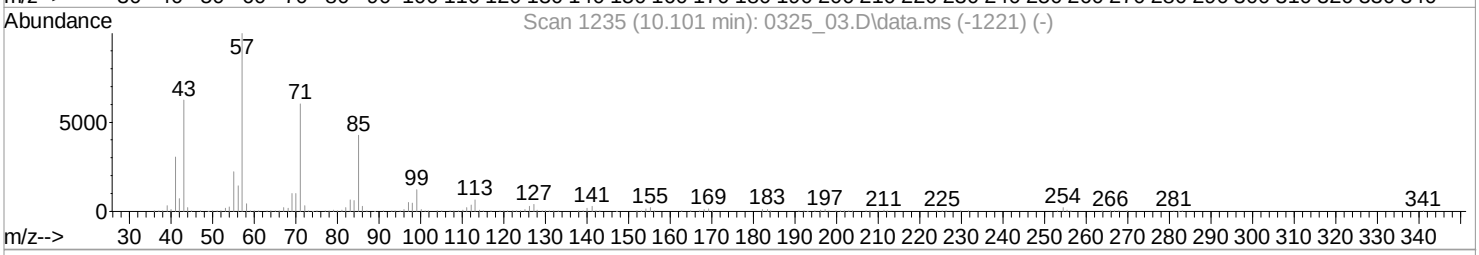
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(70) n-octadecane (T)

9.936min (-0.012) 177.9890108 ppb m

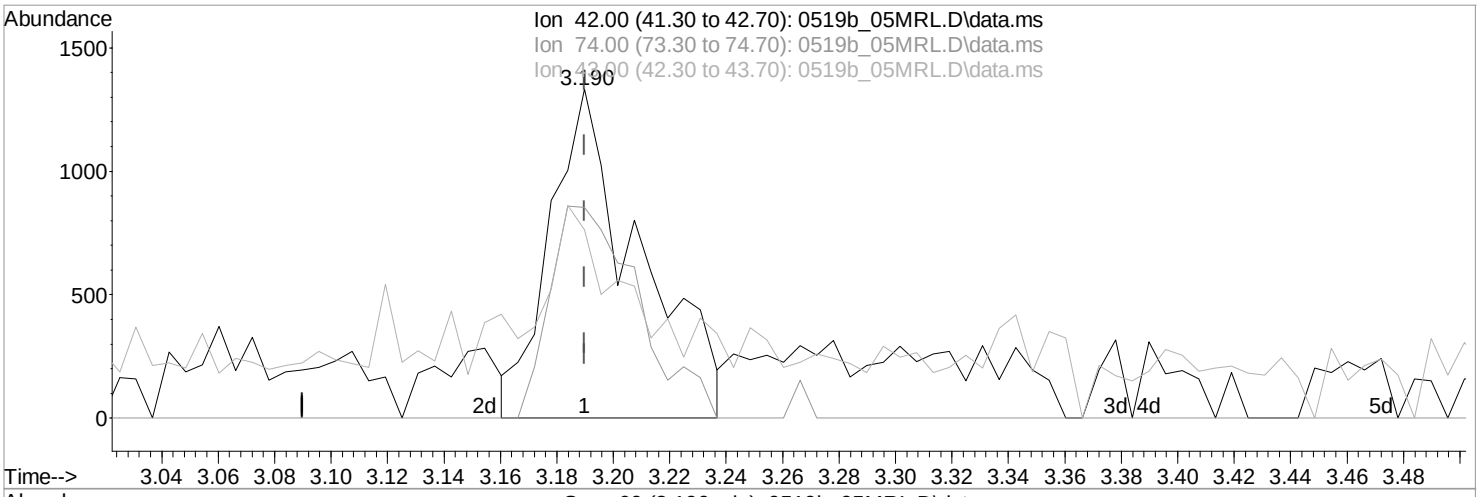
response 1910

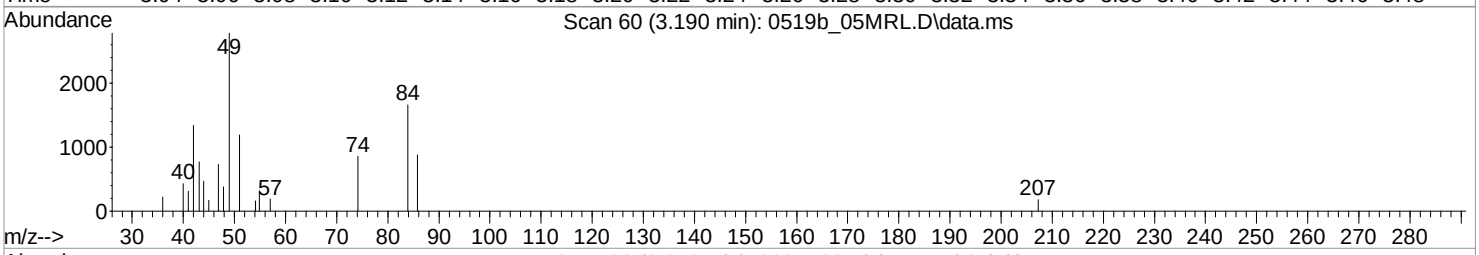
Ion	Exp%	Act%
55.00	100	100
56.00	63.00	73.77
70.00	31.50	37.33
126.00	7.80	4.50#

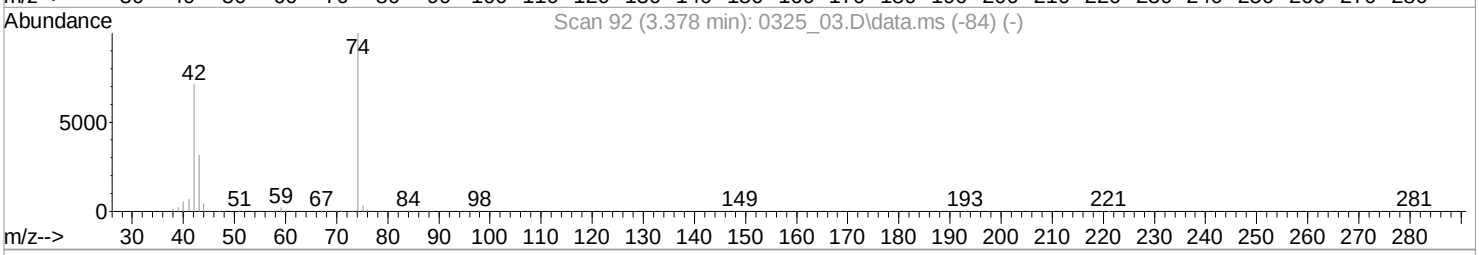
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05MRL.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.190min (0.000) 237.8514776 ppb m

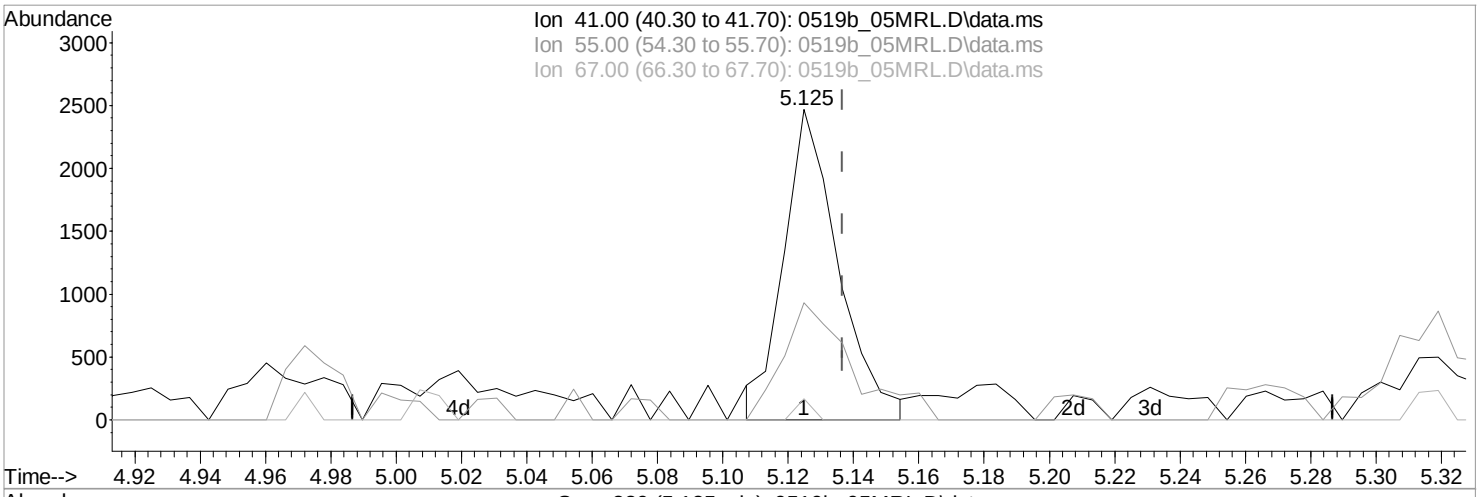
response 2918

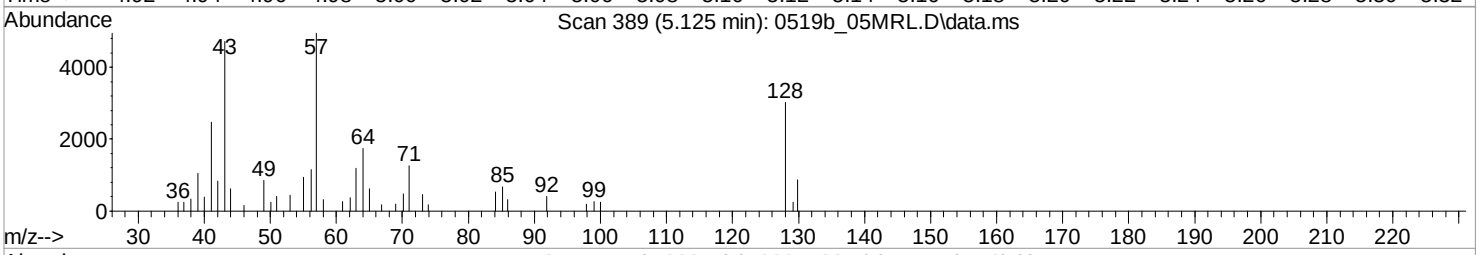
Ion	Exp%	Act%
42.00	100	100
74.00	89.60	63.71#
43.00	50.70	133.00#
0.00	0.00	0.00

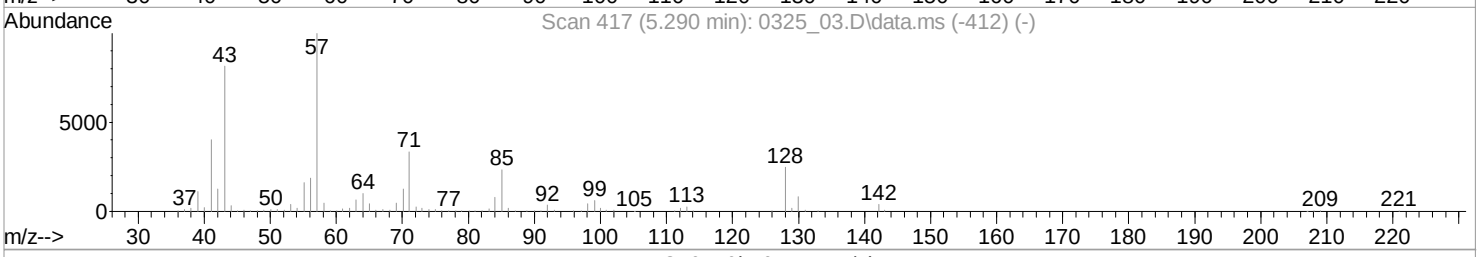
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05MRL.D\data.ms

(11) n-Decane (T)

5.125min (-0.012) 254.2375567 ppb m

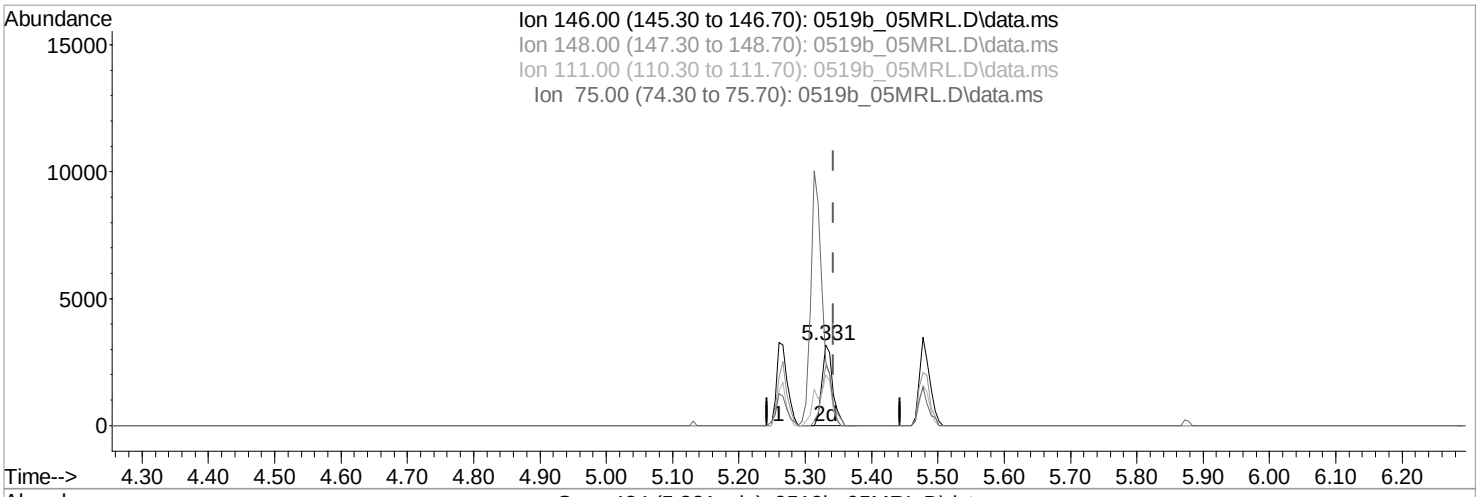
response 2851

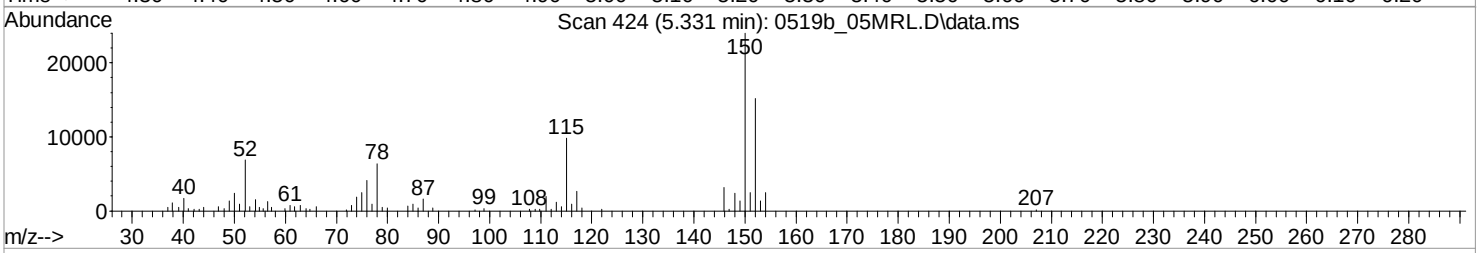
Ion	Exp%	Act%
41.00	100	100
55.00	39.60	48.33#
67.00	2.70	2.07#
0.00	0.00	0.00

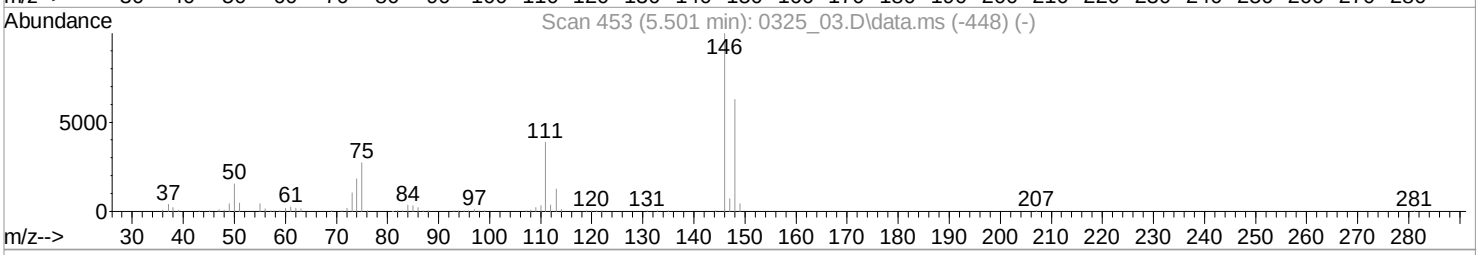
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05MRL.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.331min (-0.012) 190.2607989 ppb m

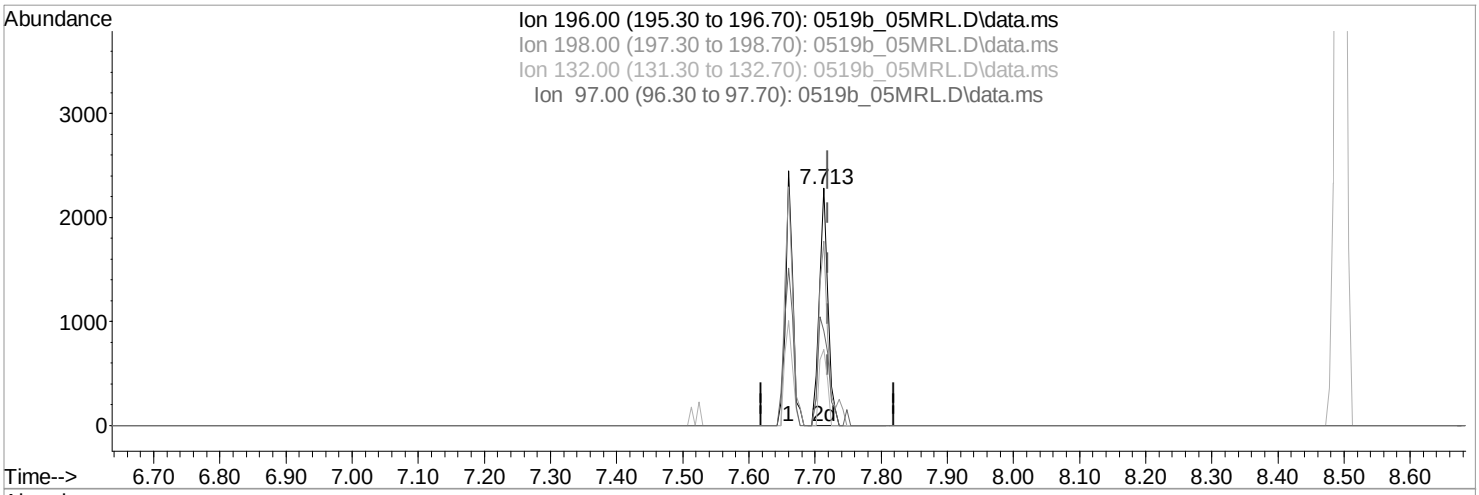
response 3603

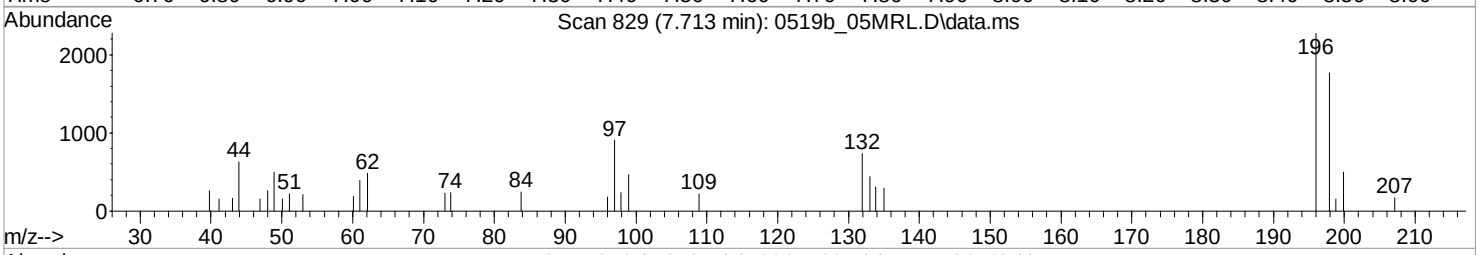
Ion	Exp%	Act%
146.00	100	100
148.00	62.30	74.15
111.00	42.90	62.37
75.00	35.30	78.55#

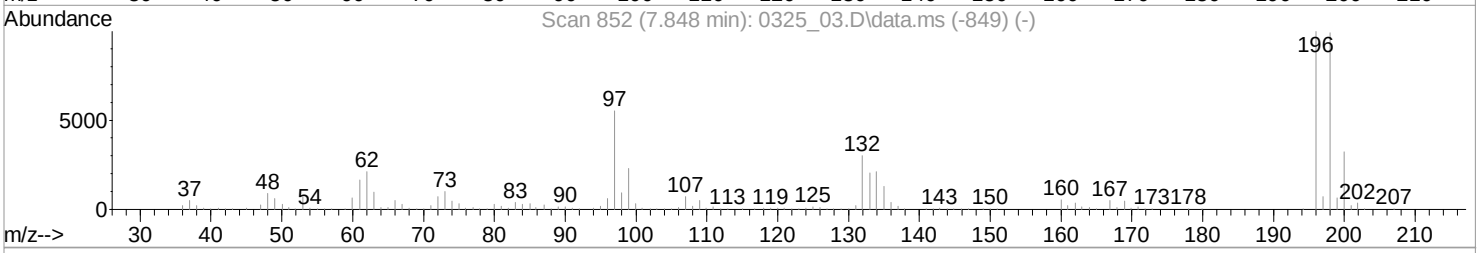
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05MRL.D\data.ms

(43) 2,4,5-Trichlorophenol (MT)

7.713min (-0.006) 182.5200846 ppb m

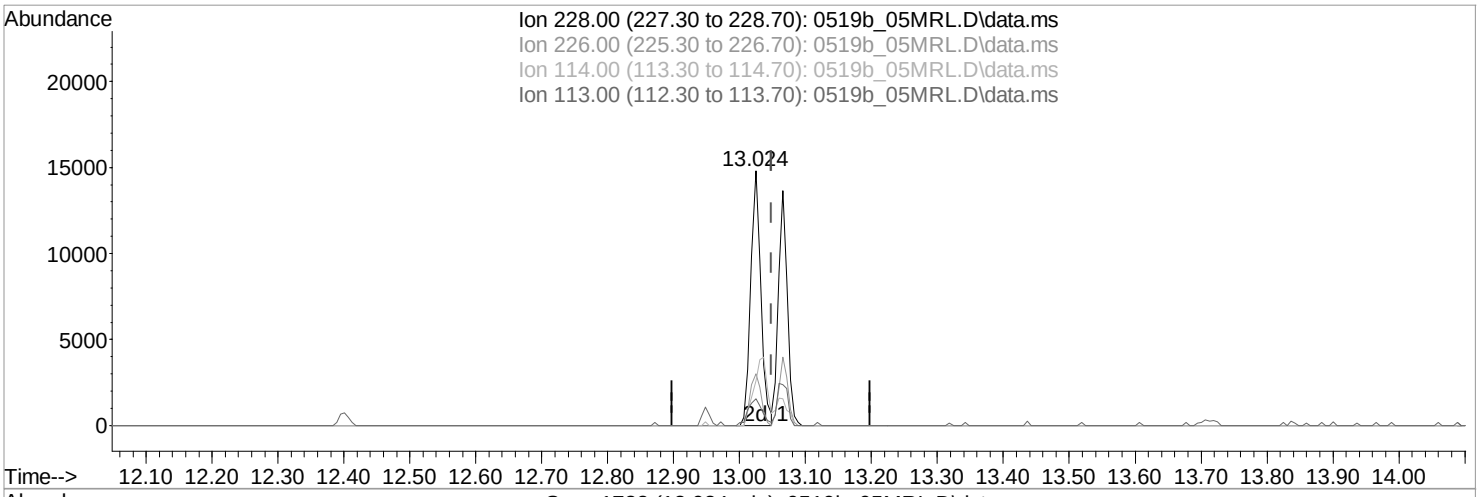
response 2102

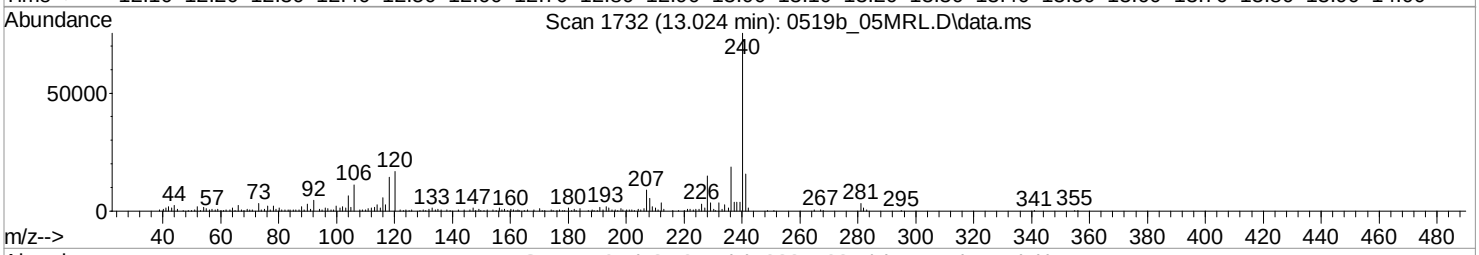
Ion	Exp%	Act%
196.00	100	100
198.00	96.60	77.55
132.00	31.40	32.18
97.00	66.90	39.76#

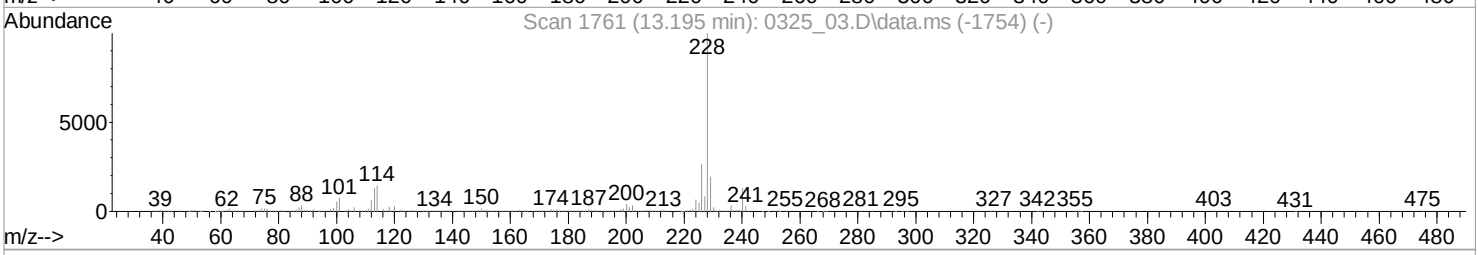
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_05MRL.D\data.ms

(84) Benzo(a)anthracene (MT)

13.024min (-0.024) 210.7899824 ppb m

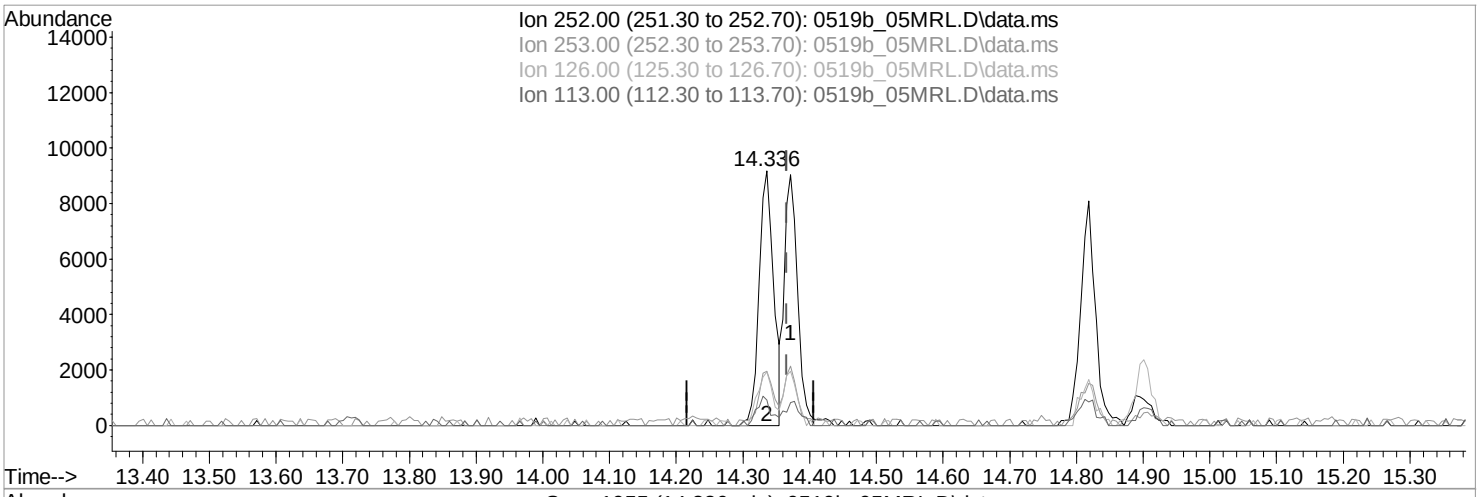
response 15361

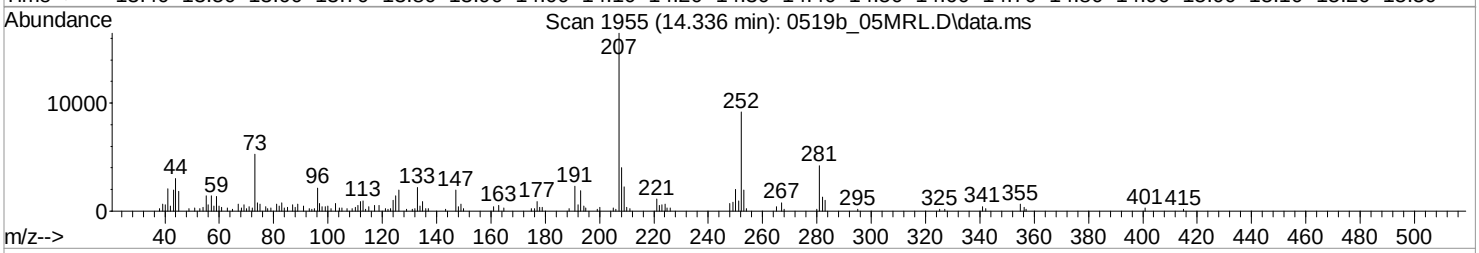
Ion	Exp%	Act%
228.00	100	100
226.00	26.10	20.27
114.00	13.00	17.58
113.00	12.00	10.43

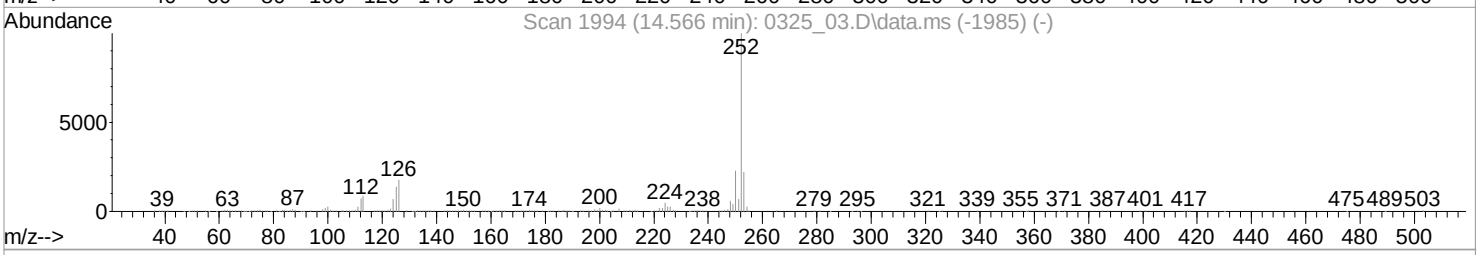
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_05MRL.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 202.3559367 ppb m

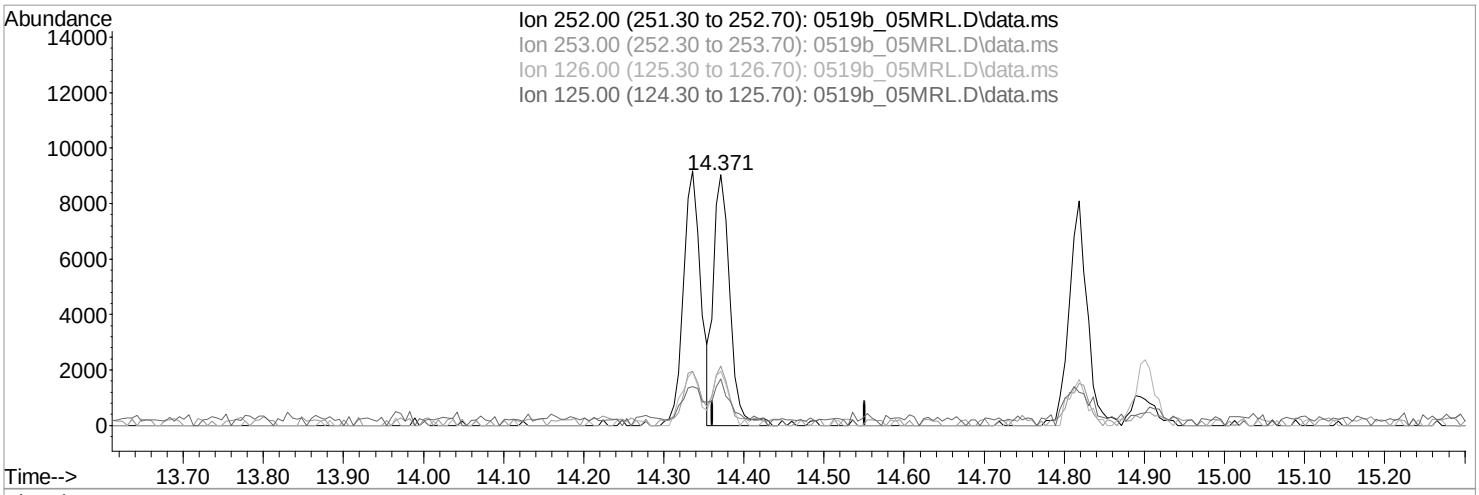
response 13928

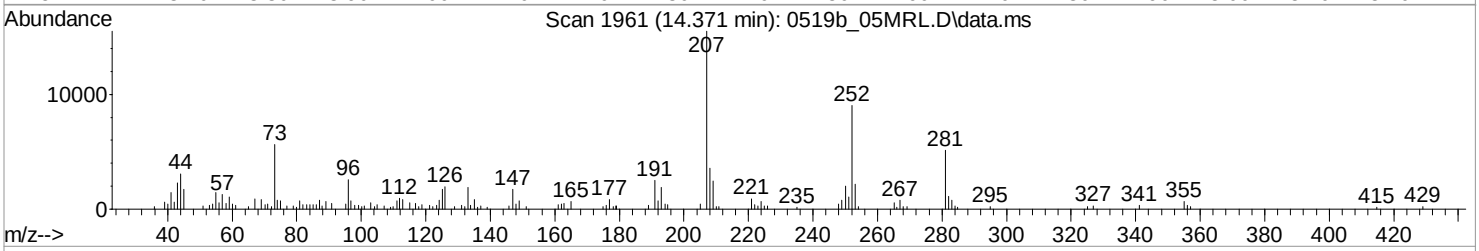
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.34
126.00	16.30	21.16
113.00	8.60	10.12

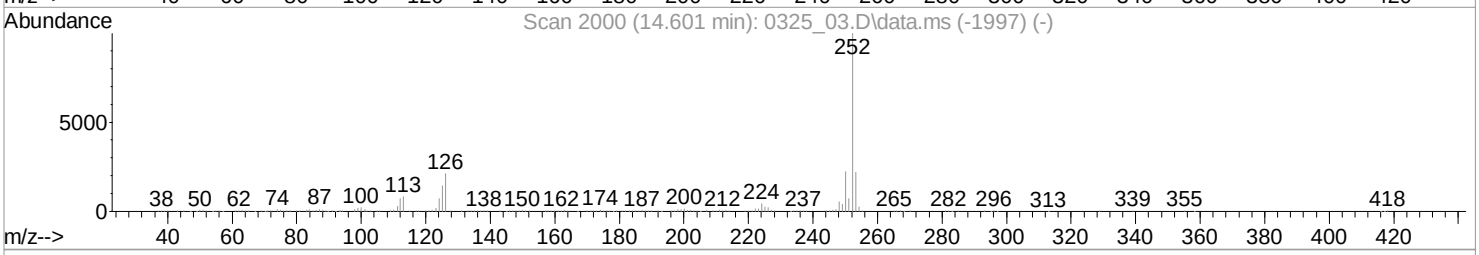
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05MRL.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05MRL.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.371min (-0.029) 201.7796987 ppb m

response 12902

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	23.75
126.00	19.40	21.61
125.00	13.30	18.69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : MRL SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	92224	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	372689	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	252065	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.130	188	438403	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	448653	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	428015	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	13202	953.8842798 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 4769.42%#		
7) Phenol-d5	4.960	99	18086	957.1193350 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 4785.60%#		
23) Nitrobenzene-d5	5.854	82	18648	952.7590776 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 9527.59%#		
44) 2-Fluorobiphenyl	7.742	172	40461	1000.0221097 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 10000.22%#		
67) 2,4,6-Tribromophenol	9.360	330	5229	904.9289773 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 4524.64%#		
81) p-Terphenyl-d14	11.854	244	57729	1033.0199389 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 10330.20%#		
Target Compounds					Qvalue
2) Pyridine	3.207	79	22145	993.6708586 ppb	98
3) N-Nitrosodimethylamine	3.184	42	12640	1037.6827450 ppb	82
5) Aniline	5.007	66	10105	982.3834400 ppb	93
6) bis(2-Chloroethyl)ether	5.048	63	15532	1016.8255745 ppb	93
8) Phenol	4.972	94	20064	961.3996733 ppb	97
9) Benzaldehyde	4.937	105	212	26.8937382 ppb #	21
10) 2-Chlorophenol	5.125	128	16674	1003.8777442 ppb	98
11) n-Decane	5.125	41	12295	1104.2514470 ppb #	98
12) 1,3-Dichlorobenzene	5.260	146	18731	1004.0193573 ppb	95
13) 1,4-Dichlorobenzene	5.331	146	19067	1014.0616889 ppb	94
14) Benzyl Alcohol	5.431	79	13186	912.3851862 ppb	98
15) 1,2-Dichlorobenzene	5.478	146	18119	994.5614571 ppb	96
16) bis(2-Chloroisopropyl)...	5.554	121	5560	1009.3510997 ppb #	77
17) 2-Methylphenol	5.537	108	14316	985.5049723 ppb	97
18) Hexachloroethane	5.813	117	8633	948.9546719 ppb	98
19) N-Nitrosodi-n-propylamine	5.684	70	8868	951.1022315 ppb	95
20) 3&4-Methyl phenol	5.684	107	15762	940.0907501 ppb	99
21) Acetophenone	5.690	105	61	2.5007173 ppb #	1
24) Nitrobenzene	5.872	77	18356	946.8610110 ppb	96
25) Isophorone	6.101	82	33555	962.3181765 ppb	94
26) 2-Nitrophenol	6.195	139	7562	864.5198387 ppb	95
27) 2,4-Dimethylphenol	6.225	107	17857	1002.9009874 ppb	95
28) bis(2-Chlorethoxy)methane	6.319	93	21476	984.6771206 ppb	99
29) 2,4-Dichlorophenol	6.448	162	13961	948.8244799 ppb	98
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.531	180	16734	1030.6689898 ppb	97
32) Naphthalene	6.619	128	53422	997.3535541 ppb	99
33) 4-Chloroaniline	6.672	65	7318	951.6835607 ppb	95
34) Hexachloro-1,3-butadiene	6.737	225	10548	989.1834301 ppb	93
35) Caprolactam	7.184	113	427	80.3684186 ppb #	30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : MRL SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	15310	946.7080860 ppb		99
37) 2-Methylnaphthalene	7.354	142	36674	977.6226711 ppb		98
38) 1-Methylnaphthalene	7.466	142	33601	1013.6310111 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	7564	678.6915823 ppb		97
42) 2,4,6-Trichlorophenol	7.660	196	10441	956.6089733 ppb		93
43) 2,4,5-Trichlorophenol	7.707	196	10949	940.9545158 ppb		90
45) Biphenyl	7.854	154	45133	1011.0937500 ppb		98
46) 2-Chloronaphthalene	7.889	162	36627	1003.3084053 ppb		99
47) 2-Nitroaniline	7.995	138	9653	841.0991542 ppb		98
48) Acenaphthylene	8.342	152	56081	991.9948412 ppb		98
49) Dimethyl phthalate	8.172	163	42033	1011.4561929 ppb		99
50) 2,6-Dinitrotoluene	8.248	165	8284	894.8406769 ppb		88
51) 3-Nitroaniline	8.442	138	8170	891.0698852 ppb		90
52) Acenaphthene	8.531	153	38553	1015.4855832 ppb		98
53) 2,4-Dinitrophenol	8.554	184	1240	2079.2032150 ppb	#	75
54) Dibenzofuran	8.719	168	54305	1016.9172081 ppb		100
55) 2,4-Dinitrotoluene	8.684	165	10490	853.5957610 ppb		94
56) 2,3,4,6-Tetrachlorophenol	8.848	232	8485	1042.9176502 ppb		85
57) 4-Nitrophenol	8.636	139	5607	736.9963229 ppb		90
58) Fluorene	9.095	166	44337	1005.4165705 ppb		98
59) 4-Chlorophenyl-phenyle...	9.078	204	20125	1002.3859545 ppb		95
60) Diethyl phthalate	8.936	149	43302	971.9310896 ppb		98
61) 4-Nitroaniline	9.107	138	8995	1046.0804438 ppb		96
62) Azobenzene	9.254	77	48113	1000.8431324 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	3431	1236.3416078 ppb		93
66) N-Nitrosodiphenylamine	9.207	169	36305	1017.6360343 ppb		98
68) 4-Bromophenyl-phenylether	9.619	248	11226	978.6599483 ppb		92
69) Hexachlorobenzene	9.695	284	14005	1028.8687098 ppb		97
70) n-octadecane	9.936	55	12833	1224.4664116 ppb	#	86
71) Pentachlorophenol	9.913	266	3752	1189.1890911 ppb		92
72) Phenanthrene	10.154	178	67578	999.4844704 ppb		98
73) Anthracene	10.213	178	64943	998.1645403 ppb		98
74) Carbazole	10.383	167	61897	1082.8928399 ppb		99
75) Di-n-butyl phthalate	10.713	149	79839	951.6150751 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	72776	966.0461477 ppb		99
79) Benzidine	11.589	184	74	673.4409866 ppb	#	68
80) Pyrene	11.719	202	76878	980.7566767 ppb		99
82) Benzylbutyl phthalate	12.360	149	38620	946.2540014 ppb		99
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.024	228	71502m	946.2566138 ppb		
85) Chrysene	13.066	228	68369	1006.9771737 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.948	149	57166	956.4121457 ppb		98
87) Di-n-octyl phthalate	13.671	149	98853	951.8990691 ppb		98
89) Benzo(b)fluoranthene	14.336	252	68504m	959.3115480 ppb		
90) Benzo(k)fluoranthene	14.371	252	62020m	934.9077133 ppb		
91) Benzo(a)pyrene	14.818	252	61127	935.5901343 ppb		96
92) Indeno(1,2,3-cd)pyrene	16.795	276	64867	963.8265344 ppb		97
93) Dibenz(a,h)anthracene	16.807	278	53891	968.3541189 ppb		81
94) Benzo(g,h,i)perylene	17.377	276	55722	975.8291797 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : MRL SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

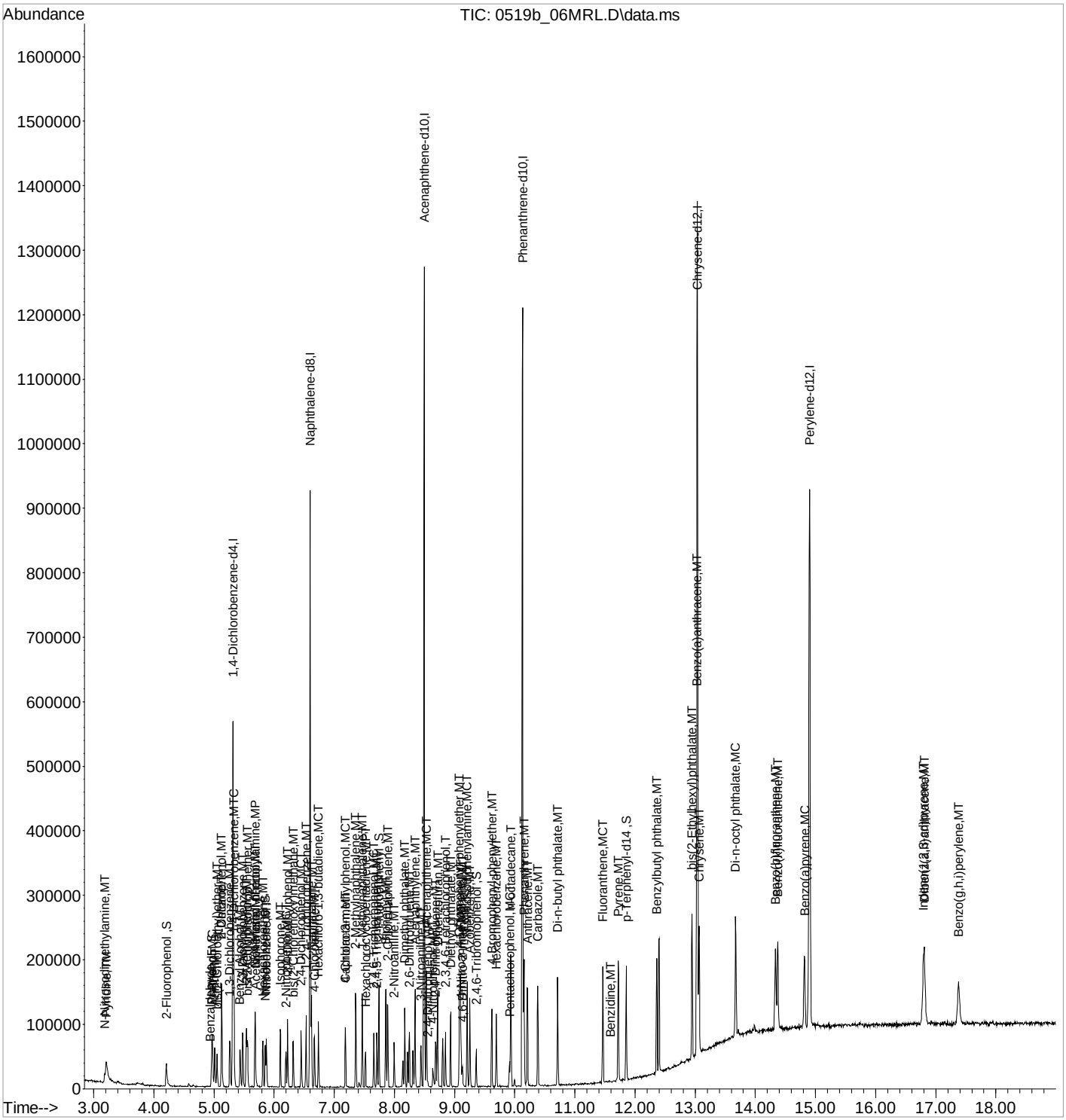
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : MRL SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

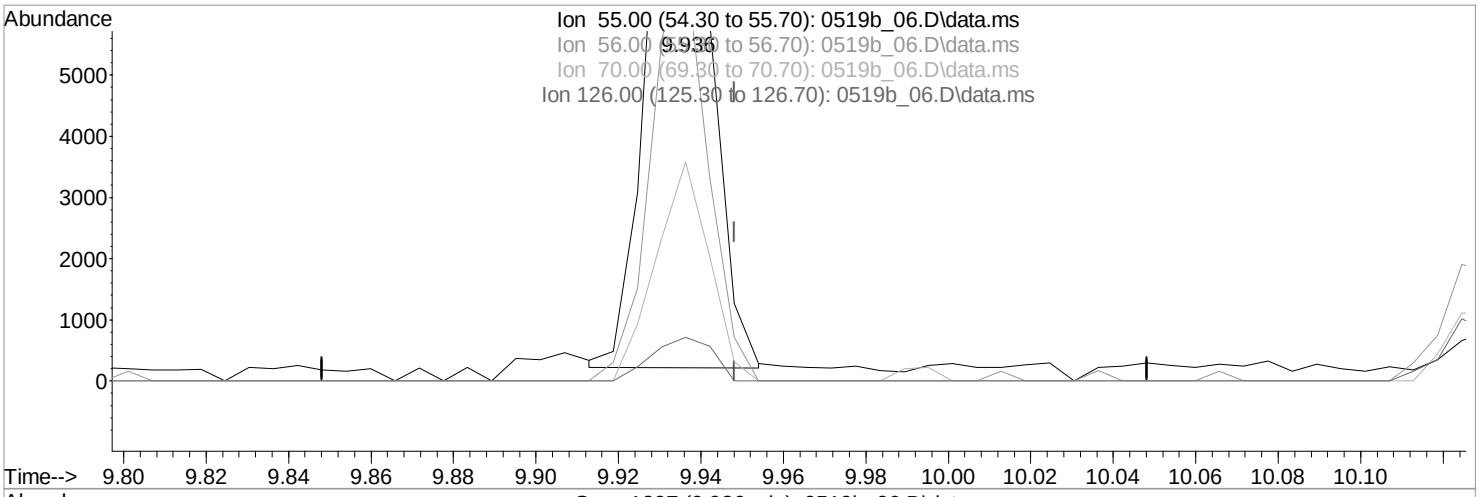
Quant Time: May 20 14:32:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

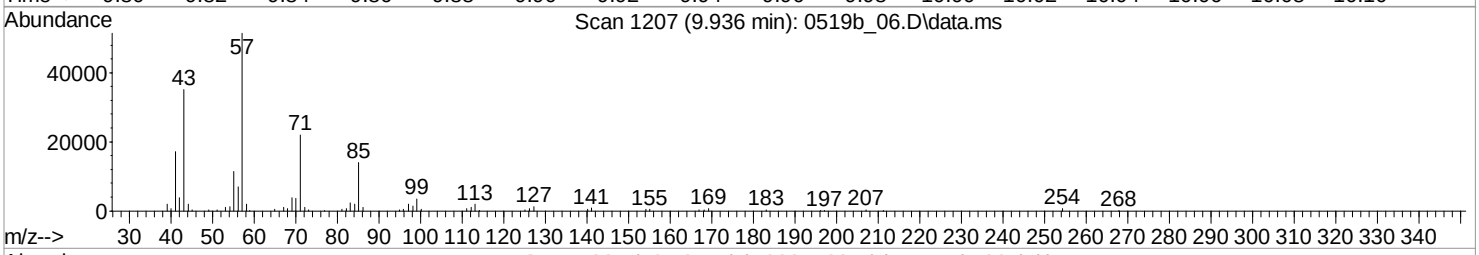


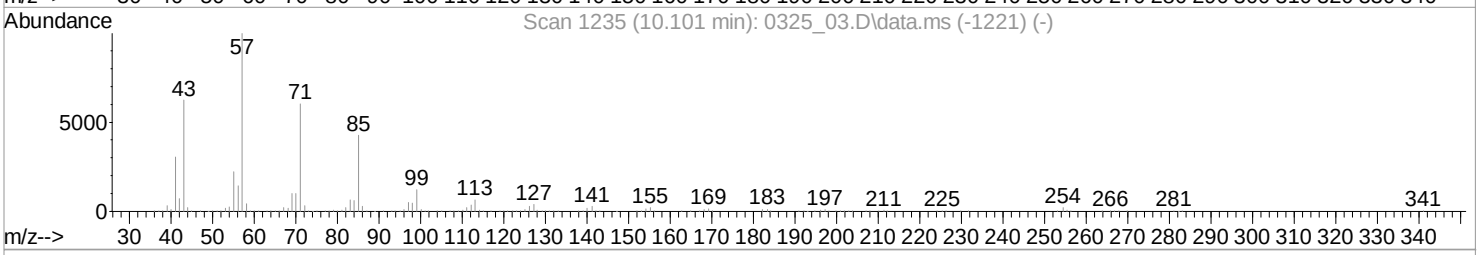
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:25:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_06.D\data.ms

(70) n-octadecane (T)

9.936min (-0.012) 1036.5884281 ppb m

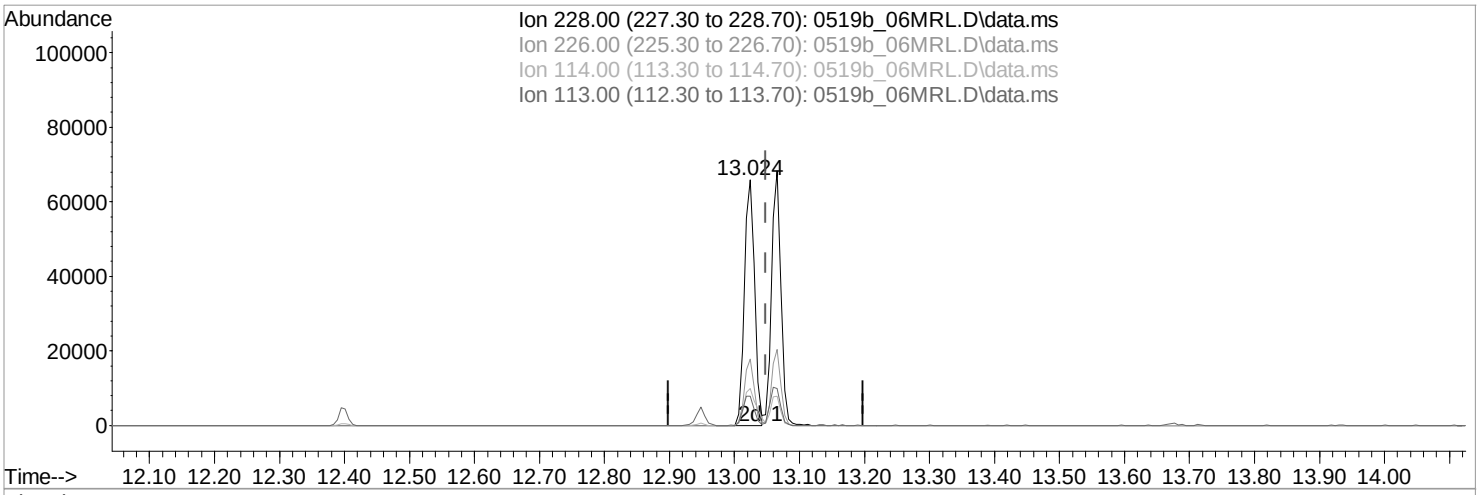
response 10699

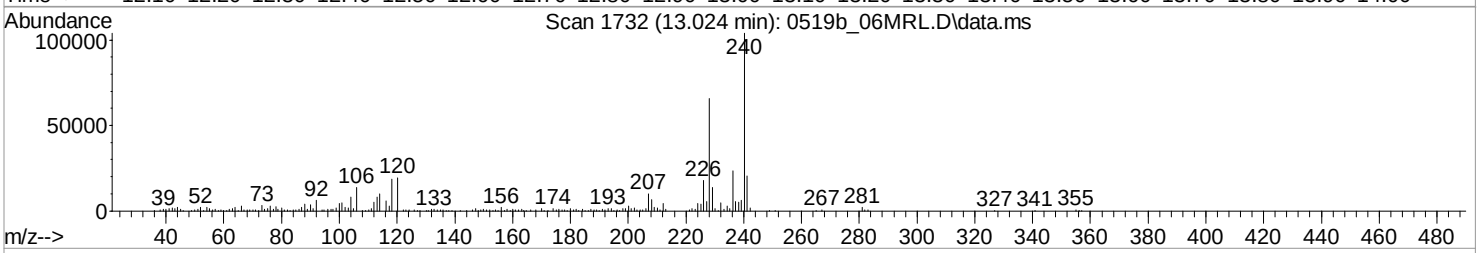
Ion	Exp%	Act%
55.00	100	100
56.00	63.00	60.46
70.00	31.50	30.39
126.00	7.80	6.83

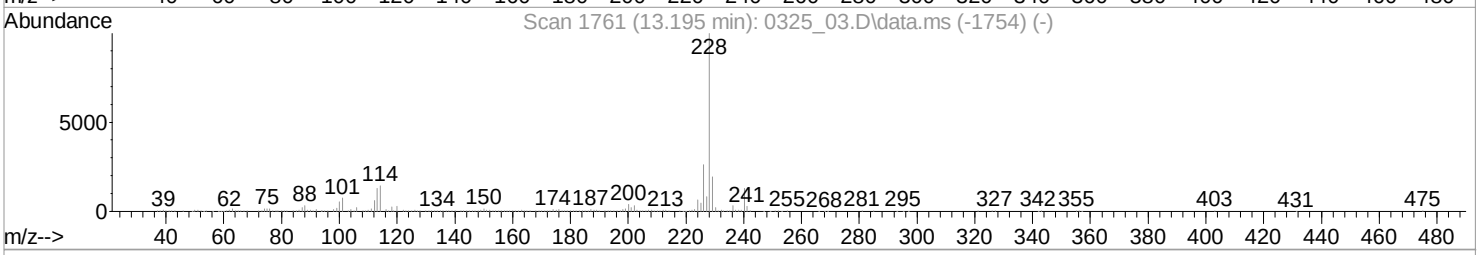
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On    : 19 May 2015   6:54 pm
Operator  : 377
Sample    : MRL SVMS 1K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:16 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_06MRL.D\data.ms

(84) Benzo(a)anthracene (MT)

13.024min (-0.024) 946.2566138 ppb m

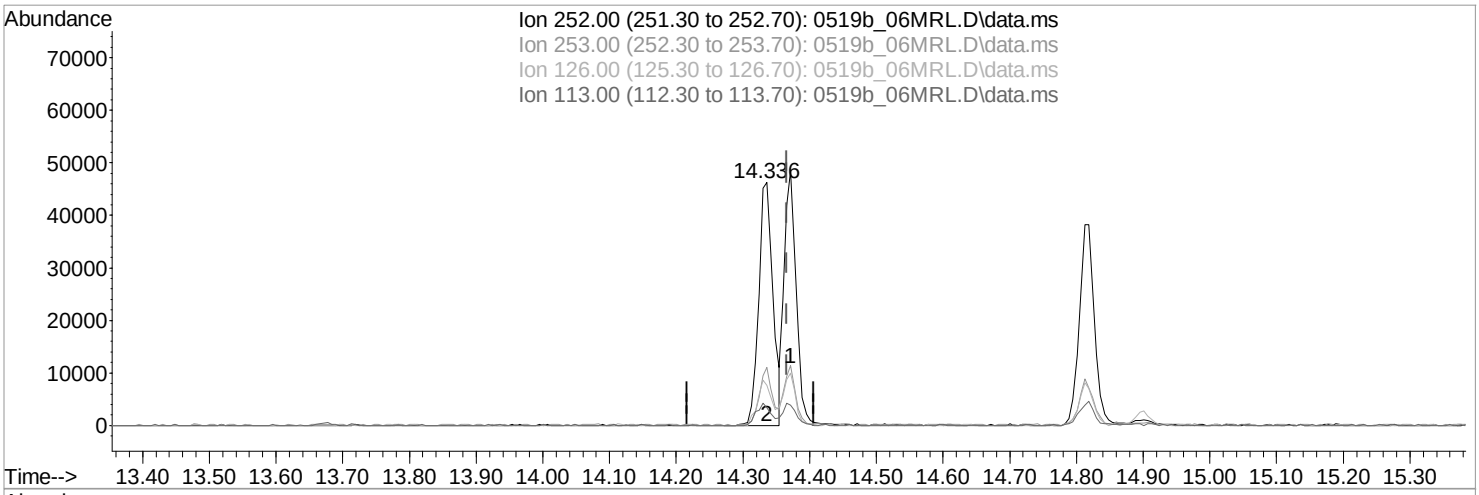
response 71502

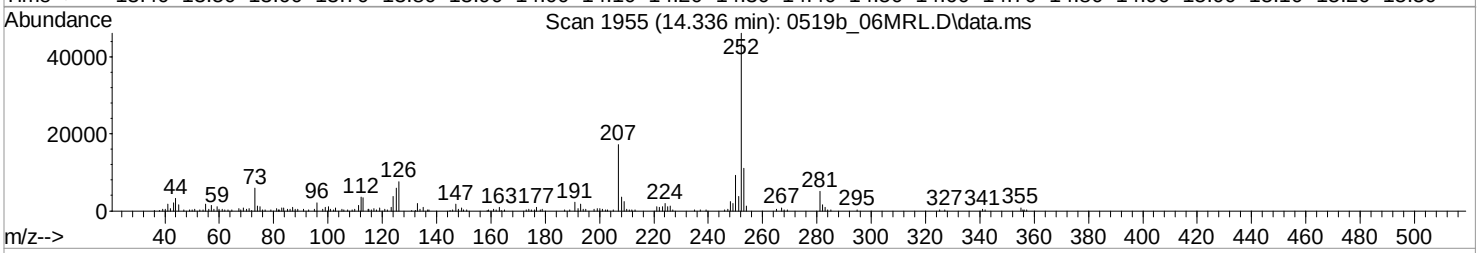
Ion	Exp%	Act%
228.00	100	100
226.00	26.10	27.01
114.00	13.00	15.03
113.00	12.00	12.00

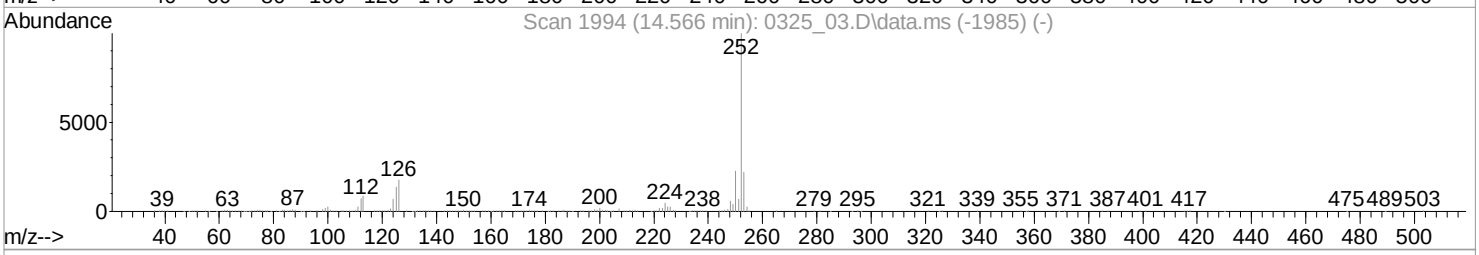
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On    : 19 May 2015   6:54 pm
Operator  : 377
Sample    : MRL SVMS 1K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:16 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_06MRL.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 959.3115480 ppb m

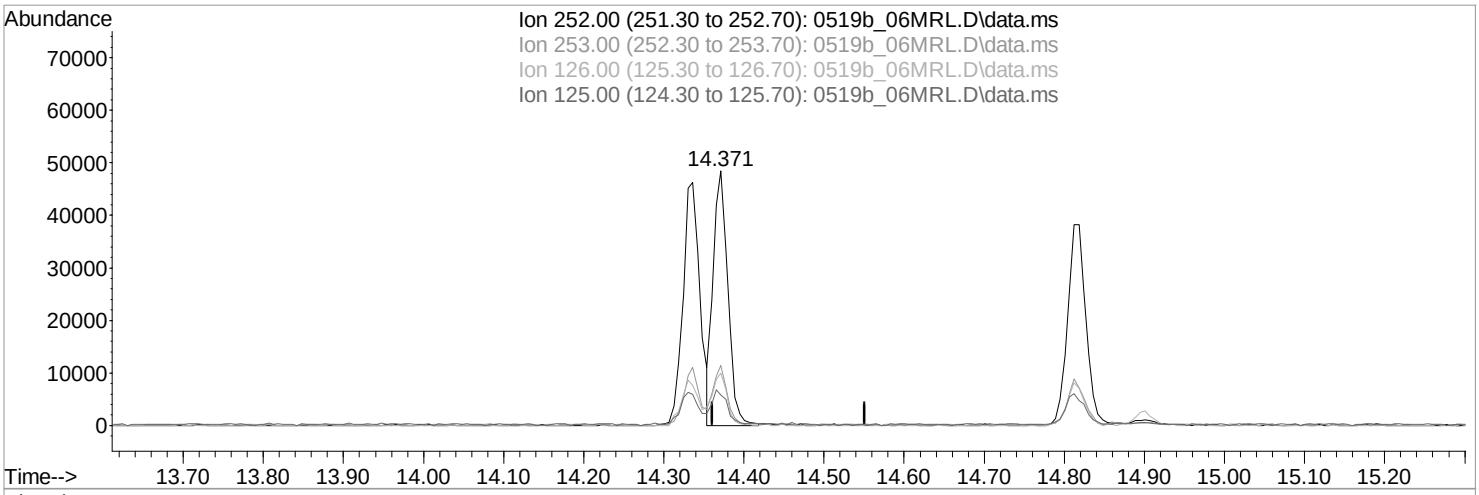
response 68504

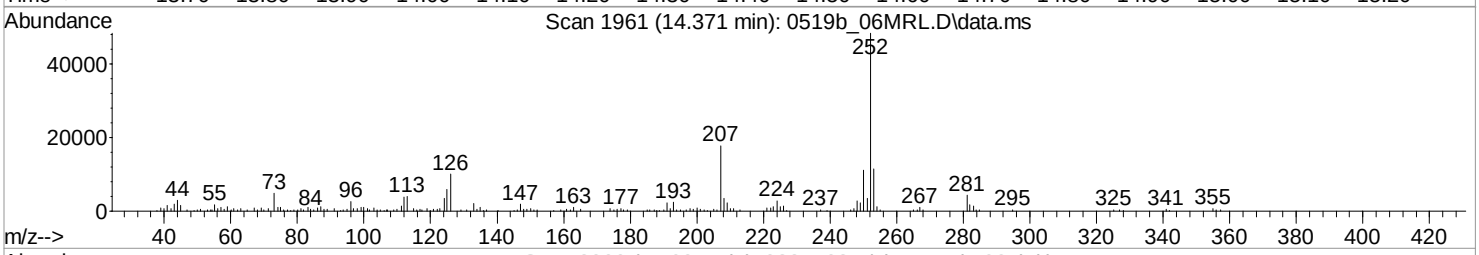
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	23.95
126.00	16.30	16.40
113.00	8.60	7.23

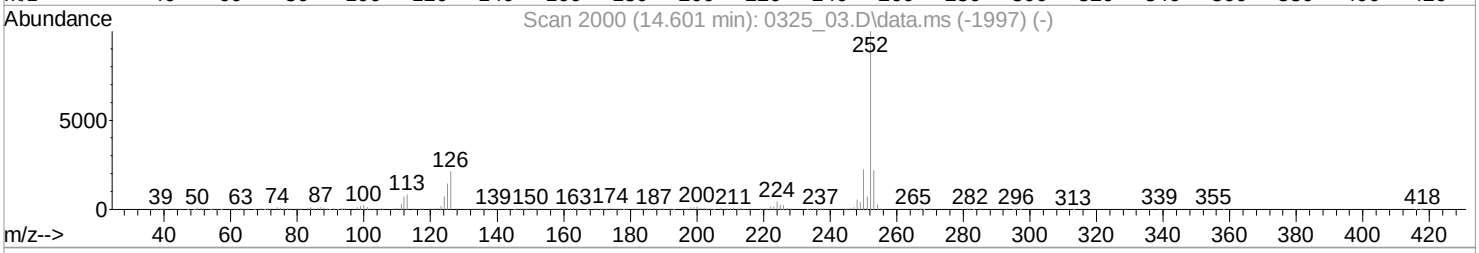
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06MRL.D
Acq On    : 19 May 2015   6:54 pm
Operator  : 377
Sample    : MRL SVMS 1K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:16 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_06MRL.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.371min (-0.029) 934.9077133 ppb m

response 62020

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	23.61
126.00	19.40	20.55
125.00	13.30	12.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	89297	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	364295	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	248673	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.131	188	435032	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	450977	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	419449	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	28017	2090.6661104 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 10453.33%#		
7) Phenol-d5	4.960	99	39176	2141.1679805 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 10705.84%#		
23) Nitrobenzene-d5	5.854	82	39913	2086.2126332 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 20862.13%#		
44) 2-Fluorobiphenyl	7.743	172	85033	2130.3178397 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 21303.18%#		
67) 2,4,6-Tribromophenol	9.360	330	11842	2065.2528192 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 10326.26%#		
81) p-Terphenyl-d14	11.854	244	117618	2093.8455471 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 20938.46%#		
Target Compounds					Qvalue
2) Pyridine	3.213	79	48009	2224.8288878 ppb	94
3) N-Nitrosodimethylamine	3.184	42	24910	2112.0214999 ppb	93
5) Aniline	5.013	66	21113	2119.8334894 ppb	96
6) bis(2-Chloroethyl)ether	5.049	63	31993	2163.1225813 ppb	98
8) Phenol	4.972	94	43484	2151.9046512 ppb	96
9) Benzaldehyde	4.937	105	392	51.3580428 ppb #	12
10) 2-Chlorophenol	5.125	128	34186	2125.6727411 ppb	98
11) n-Decane	5.125	41	24771	2297.6827797 ppb	97
12) 1,3-Dichlorobenzene	5.266	146	38764	2145.9361366 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	38120	2093.8327430 ppb	96
14) Benzyl Alcohol	5.437	79	28755	2054.8759628 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	37490	2125.2984538 ppb	97
16) bis(2-Chloroisopropyl)...	5.554	121	12165	2280.7971851 ppb #	88
17) 2-Methylphenol	5.537	108	29830	2120.7890363 ppb	95
18) Hexachloroethane	5.813	117	18567	2107.8152917 ppb	96
19) N-Nitrosodi-n-propylamine	5.684	70	18648	2065.5744967 ppb	96
20) 3&4-Methyl phenol	5.684	107	36088	2222.9431524 ppb	95
21) Acetophenone	5.684	105	347	14.6916752 ppb #	1
24) Nitrobenzene	5.872	77	40534	2139.0503739 ppb	99
25) Isophorone	6.101	82	71435	2095.8773243 ppb	98
26) 2-Nitrophenol	6.196	139	17952	2099.6383397 ppb	90
27) 2,4-Dimethylphenol	6.225	107	37648	2163.1410260 ppb	99
28) bis(2-Chlorethoxy)methane	6.319	93	46752	2192.9766631 ppb	96
29) 2,4-Dichlorophenol	6.449	162	30870	2146.3440932 ppb	96
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.531	180	33909	2136.6224692 ppb	98
32) Naphthalene	6.619	128	111750	2134.3709070 ppb	100
33) 4-Chloroaniline	6.666	65	16269	2164.4840284 ppb	97
34) Hexachloro-1,3-butadiene	6.737	225	21928	2103.7740721 ppb	98
35) Caprolactam	7.184	113	1189	228.9458451 ppb #	16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	33080	2092.6652411 ppb		95
37) 2-Methylnaphthalene	7.354	142	78267	2134.4453282 ppb		99
38) 1-Methylnaphthalene	7.466	142	69296	2138.5982977 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	18293	1663.7565950 ppb		97
42) 2,4,6-Trichlorophenol	7.660	196	21877	2031.7208359 ppb		97
43) 2,4,5-Trichlorophenol	7.707	196	23422	2040.3377493 ppb		95
45) Biphenyl	7.854	154	93875	2131.7245497 ppb		100
46) 2-Chloronaphthalene	7.890	162	74499	2068.5568372 ppb		97
47) 2-Nitroaniline	7.995	138	20458	1806.8910943 ppb		94
48) Acenaphthylene	8.342	152	120527	2161.0356151 ppb		98
49) Dimethyl phthalate	8.172	163	87701	2139.1692565 ppb		96
50) 2,6-Dinitrotoluene	8.248	165	19826	2170.8241396 ppb		93
51) 3-Nitroaniline	8.442	138	19546	2160.8843159 ppb	#	87
52) Acenaphthene	8.531	153	80517	2149.7456652 ppb		98
53) 2,4-Dinitrophenol	8.548	184	3996	2601.8281989 ppb		91
54) Dibenzofuran	8.719	168	113416	2152.8016509 ppb		98
55) 2,4-Dinitrotoluene	8.690	165	24398	2012.4027469 ppb		98
56) 2,3,4,6-Tetrachlorophenol	8.848	232	20120	2506.7444392 ppb		98
57) 4-Nitrophenol	8.637	139	13609	1813.1965832 ppb		91
58) Fluorene	9.095	166	93560	2150.5713755 ppb		99
59) 4-Chlorophenyl-phenyle...	9.078	204	43111	2176.5622547 ppb		95
60) Diethyl phthalate	8.937	149	92271	2099.3104084 ppb		98
61) 4-Nitroaniline	9.107	138	19570	2306.9525085 ppb		94
62) Azobenzene	9.254	77	100753	2124.4449192 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	8764	1968.9722587 ppb		88
66) N-Nitrosodiphenylamine	9.207	169	75810	2141.4347501 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	24681	2168.3123470 ppb	#	87
69) Hexachlorobenzene	9.695	284	28209	2088.4152254 ppb		97
70) n-octadecane	9.937	55	23699	2278.7727459 ppb		98
71) Pentachlorophenol	9.913	266	10339	2022.9620477 ppb		96
72) Phenanthrene	10.154	178	138631	2066.2524694 ppb		99
73) Anthracene	10.213	178	136258	2110.4939639 ppb		99
74) Carbazole	10.384	167	129456	2282.3927503 ppb		99
75) Di-n-butyl phthalate	10.713	149	172067	2066.7889216 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	156161	2088.9814631 ppb		99
79) Benzidine	11.589	184	278	679.5715245 ppb	#	68
80) Pyrene	11.719	202	166832	2117.3601535 ppb		98
82) Benzylbutyl phthalate	12.360	149	84044	2048.6056044 ppb		100
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.025	228	150382m	1979.8978202 ppb		
85) Chrysene	13.066	228	146329	2144.1096220 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.948	149	127183	2116.8618954 ppb		99
87) Di-n-octyl phthalate	13.672	149	215555	2064.9775394 ppb		99
89) Benzo(b)fluoranthene	14.336	252	145586m	2080.3824495 ppb		
90) Benzo(k)fluoranthene	14.372	252	133502m	2053.5466777 ppb		
91) Benzo(a)pyrene	14.819	252	134520	2100.9670257 ppb		96
92) Indeno(1,2,3-cd)pyrene	16.801	276	140962	2137.2579658 ppb		98
93) Dibenz(a,h)anthracene	16.813	278	114908	2106.9200376 ppb		92
94) Benzo(g,h,i)perylene	17.383	276	118781	2122.6280926 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:32:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

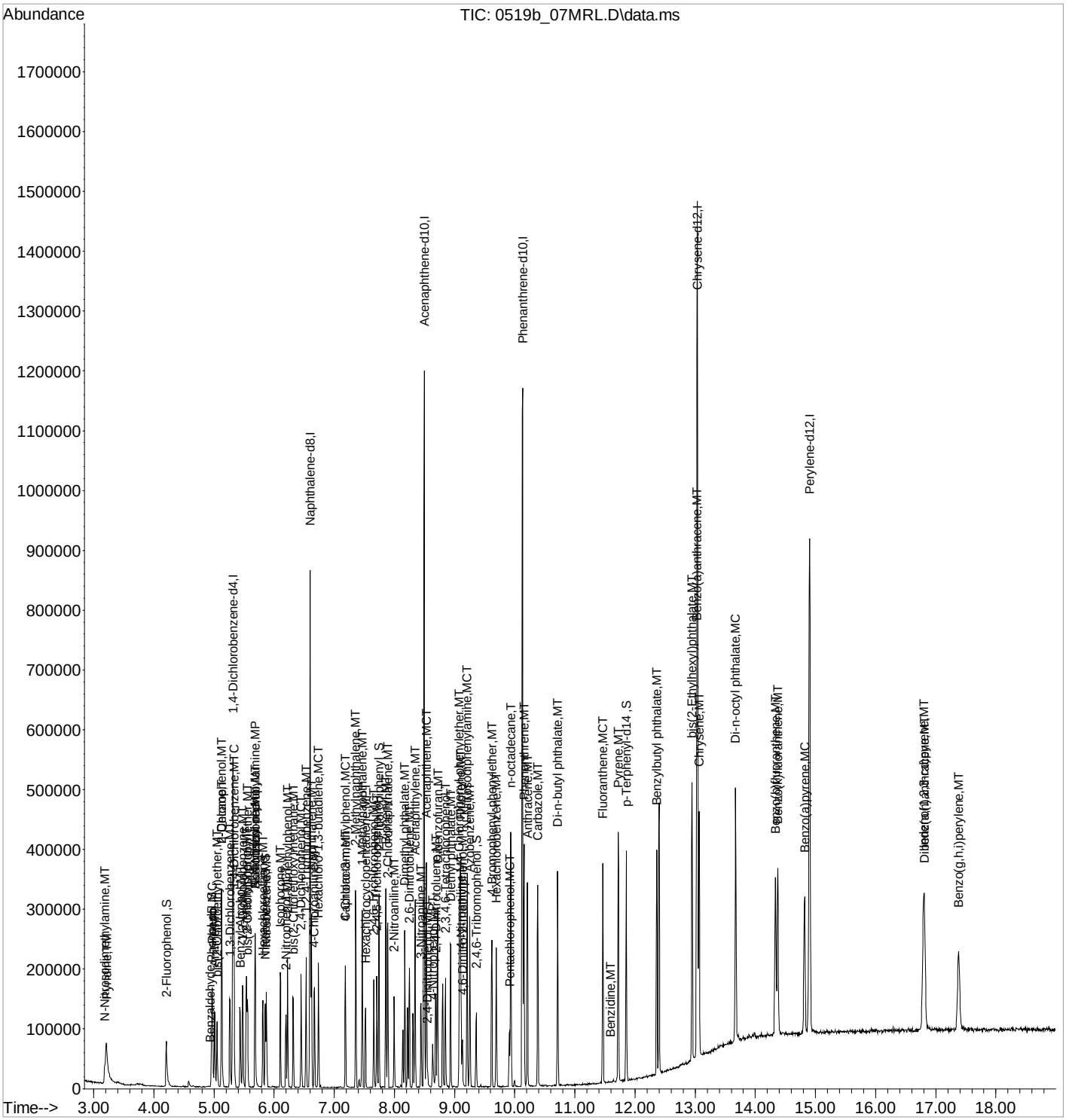
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

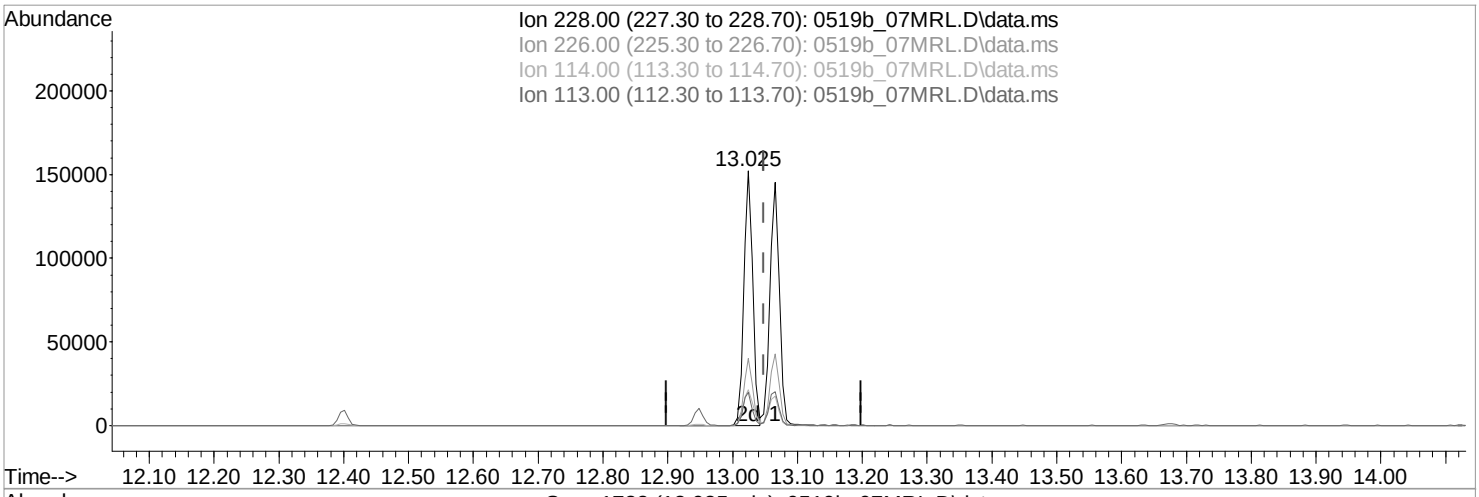
Quant Time: May 20 14:32:58 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

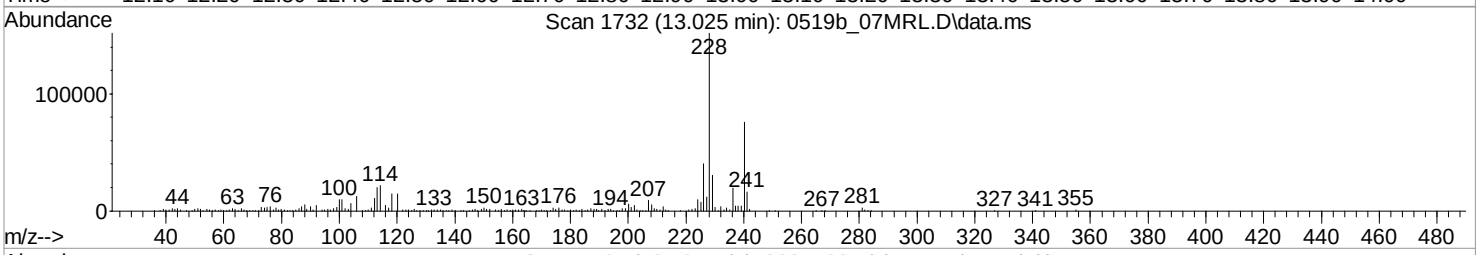


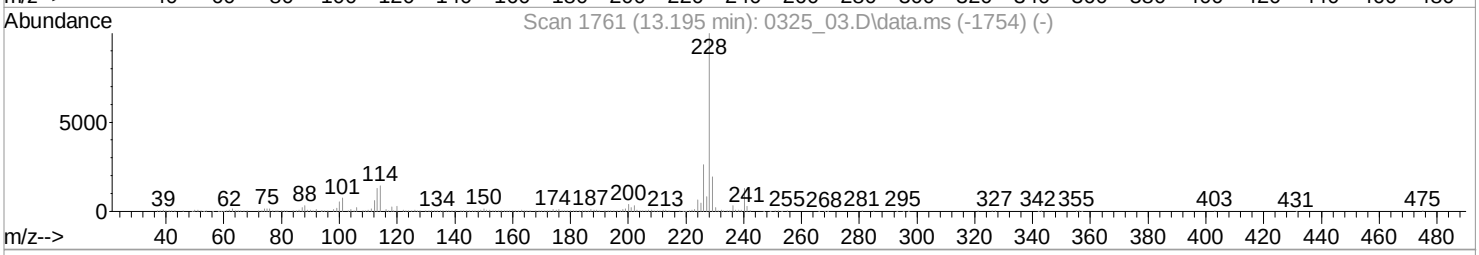
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_07MRL.D\data.ms

(84) Benzo(a)anthracene (MT)

13.025min (-0.023) 1979.8978202 ppb m

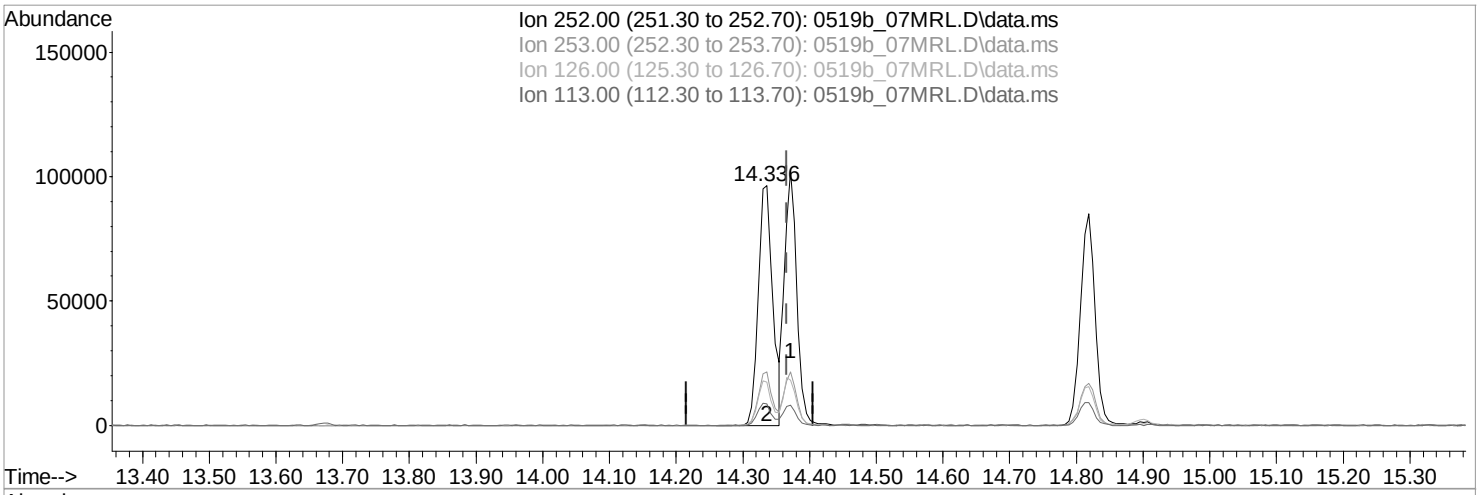
response 150382

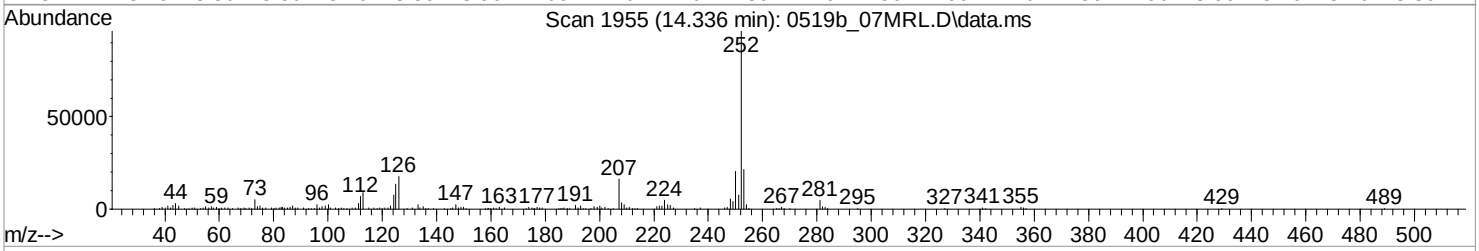
Ion	Exp%	Act%
228.00	100	100
226.00	26.10	26.28
114.00	13.00	14.11
113.00	12.00	13.09

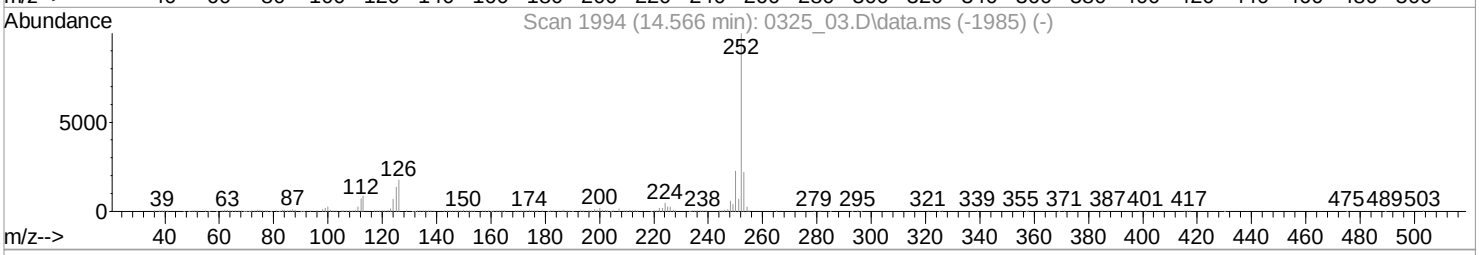
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On    : 19 May 2015   7:18 pm
Operator  : 377
Sample    : MRL SVMS 2K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 7   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_07MRL.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 2080.3824495 ppb m

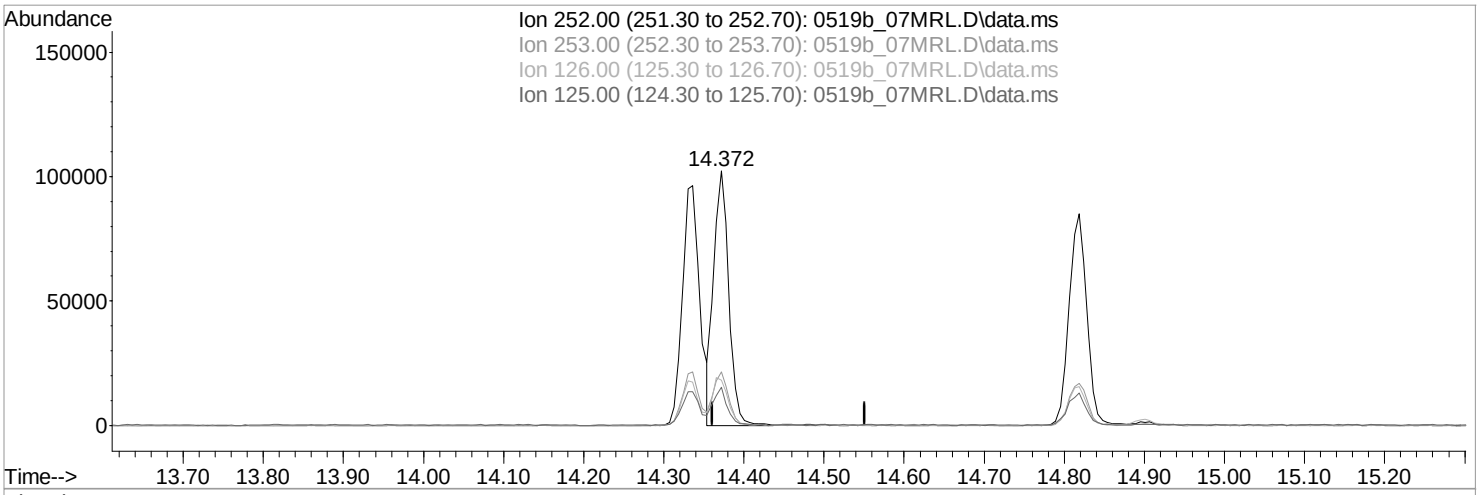
response 145586

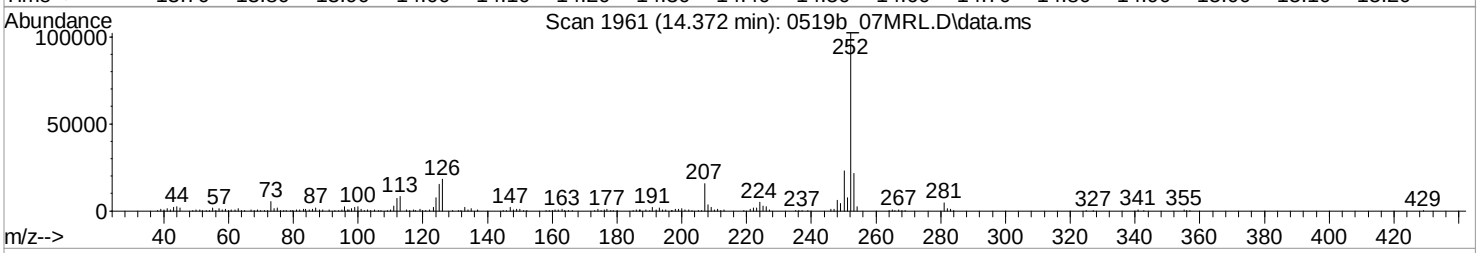
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.30
126.00	16.30	18.06
113.00	8.60	9.02

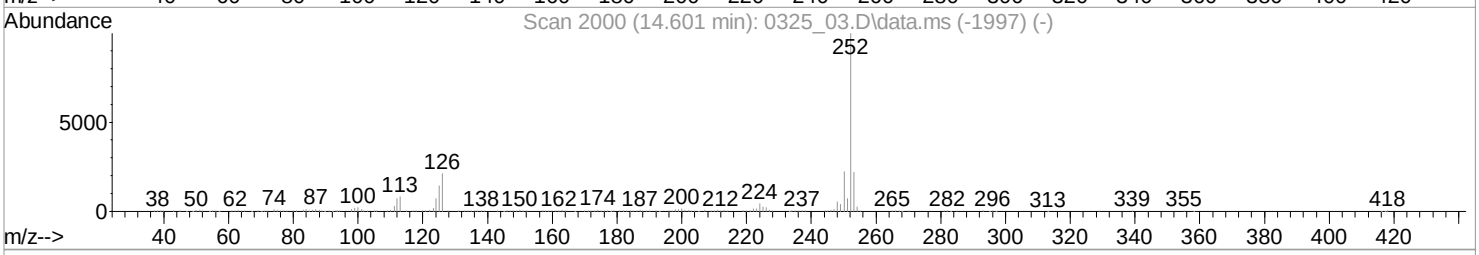
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07MRL.D
Acq On    : 19 May 2015   7:18 pm
Operator  : 377
Sample    : MRL SVMS 2K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 7   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:25:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_07MRL.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.372min (-0.029) 2053.5466777 ppb m

response 133502

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.00
126.00	19.40	17.89
125.00	13.30	14.95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15MRL.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	90207	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	364591	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	246339	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	434663	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	434974	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	410872	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.184	42	307	25.7667481 ppb #	22
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.978	94	74	3.6251158 ppb #	35
9) Benzaldehyde	4.919	105	14608	1894.5662092 ppb	94
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.137	41	196	17.9969633 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.690	107	177	10.7928325 ppb #	1
21) Acetophenone	5.695	105	45377	1901.8412031 ppb	98
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.278	105	14547	2014.5129437 ppb	95
31) 1,2,4-Trichlorobenzene	6.531	180	77	4.8478682 ppb #	19
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.007	113	9156	1761.5864559 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15MRL.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.195	107	55	3.4765159 ppb	#	16
37) 2-Methylnaphthalene	0.000		0	N.D.		
38) 1-Methylnaphthalene	7.537	142	191	5.8898154 ppb	#	18
39) 1,2,4,5-Tetrachloroben...	7.537	216	29584	2019.1570757 ppb		98
41) Hexachlorocyclopentadiene	0.000		0	N.D.		
42) 2,4,6-Trichlorophenol	0.000		0	N.D.		
43) 2,4,5-Trichlorophenol	0.000		0	N.D.		
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
48) Acenaphthylene	0.000		0	N.D.		
49) Dimethyl phthalate	0.000		0	N.D.		
50) 2,6-Dinitrotoluene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) Acenaphthene	0.000		0	N.D.		
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 2,3,4,6-Tetrachlorophenol	8.848	232	13534	1702.1730713 ppb		96
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	0.000		0	N.D.		
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60) Diethyl phthalate	0.000		0	N.D.		
61) 4-Nitroaniline	0.000		0	N.D.		
62) Azobenzene	9.278	77	54	1.1494146 ppb	#	1
63) Atrazine	9.772	200	19100	1771.8328559 ppb		96
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D.		
68) 4-Bromophenyl-phenylether	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) n-octadecane	9.936	55	57	5.4854768 ppb	#	31
71) Pentachlorophenol	9.913	266	530	786.8240453 ppb		84
72) Phenanthrene	10.207	178	61	0.9099581 ppb		70
73) Anthracene	10.207	178	61	0.9456283 ppb		63
74) Carbazole	10.383	167	62	1.0940279 ppb	#	61
75) Di-n-butyl phthalate	10.713	149	256	3.0775636 ppb		79
76) 2-nitrodiphenylamine	10.913	167	23787	1956.4956870 ppb		96
77) Fluoranthene	0.000		0	N.D.		
79) Benzidine	11.589	184	42078	1984.7054627 ppb		99
80) Pyrene	0.000		0	N.D.		
82) Benzylbutyl phthalate	12.430	149	167	4.2204544 ppb		76
83) 3,3-Dichlorobenzidine	12.971	252	42491	1901.4306493 ppb		99
84) Benzo(a)anthracene	13.036	228	1201	16.3938525 ppb	#	1
85) Chrysene	13.036	228	1201	18.2452863 ppb	#	59
86) bis(2-Ethylhexyl)phtha...	12.989	149	2262	39.0343683 ppb	#	57
87) Di-n-octyl phthalate	13.713	149	1856	18.4342850 ppb		74
89) Benzo(b)fluoranthene	14.371	252	145	2.1152621 ppb	#	61
90) Benzo(k)fluoranthene	0.000		0	N.D.		
91) Benzo(a)pyrene	14.818	252	206	3.2845223 ppb	#	40
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93) Dibenz(a,h)anthracene	0.000		0	N.D.		
94) Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15MRL.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

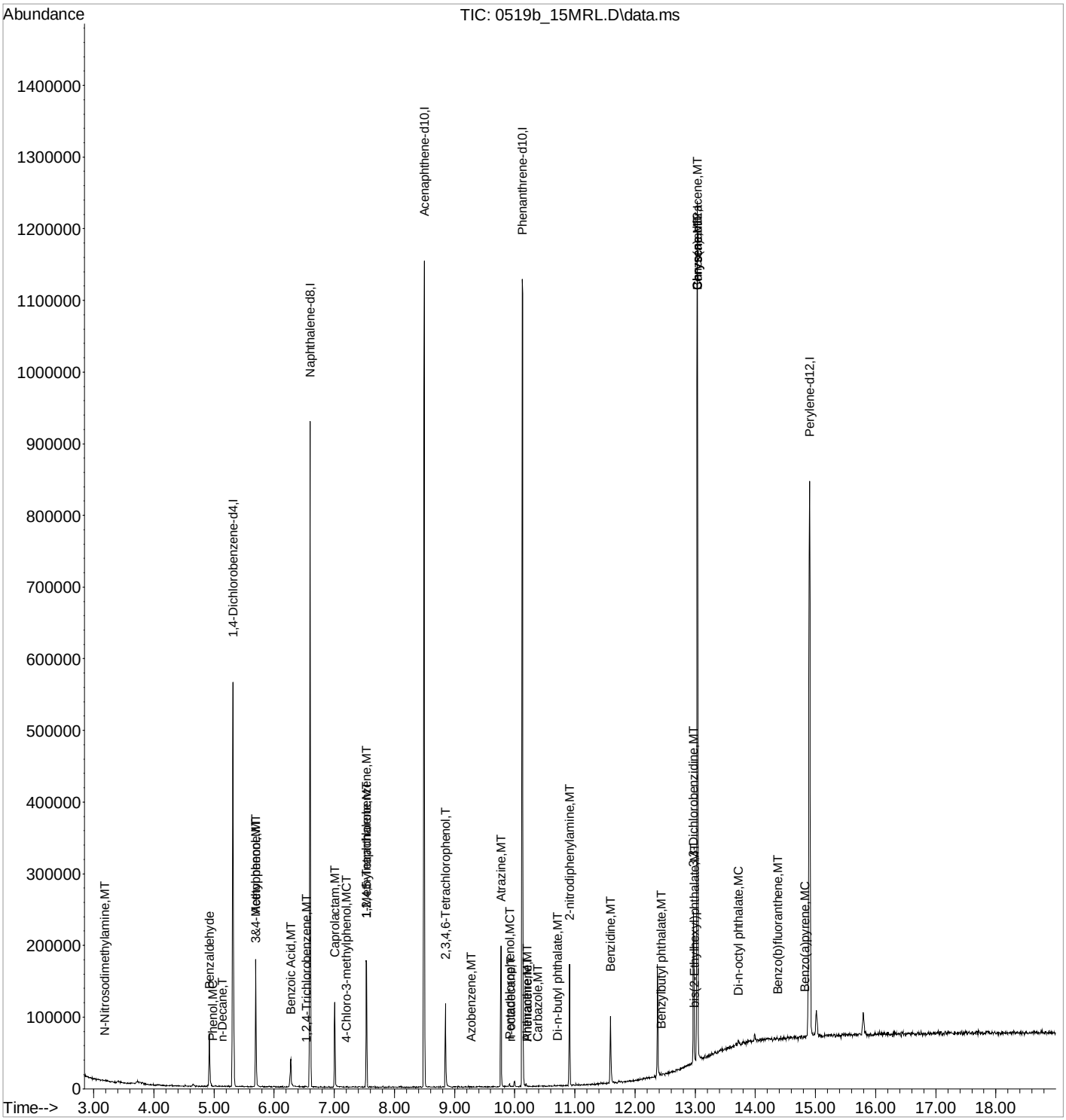
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15MRL.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:33:41 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	92547	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	377725	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	256632	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.131	188	468130	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	480699	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	455511	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	5.807	82	23165	1167.7610462 ppb	-0.06
Spiked Amount 10.000	Range 12 - 120		Recovery = 11677.61%#		
44) 2-Fluorobiphenyl	7.707	172	307	7.4526908 ppb	-0.05
Spiked Amount 10.000	Range 26 - 122		Recovery = 74.53%		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	3.208	79	215263	9625.3796200 ppb	95
3) N-Nitrosodimethylamine	3.178	42	112966	9241.5939295 ppb	97
5) Aniline	5.007	66	98421	9534.8551107 ppb	96
6) bis(2-Chloroethyl)ether	5.049	63	145286	9478.1691602 ppb	97
8) Phenol	4.972	94	203182	9701.8217593 ppb	95
9) Benzaldehyde	4.931	105	1600	202.2632141 ppb #	75
10) 2-Chlorophenol	5.125	128	162576	9753.9173778 ppb	95
11) n-Decane	5.125	41	1110	99.3445467 ppb #	1
12) 1,3-Dichlorobenzene	5.260	146	178327	9525.3257157 ppb	97
13) 1,4-Dichlorobenzene	5.331	146	186843	9902.3996556 ppb	99
14) Benzyl Alcohol	5.431	79	144380	9955.2873707 ppb	98
15) 1,2-Dichlorobenzene	5.478	146	177947	9733.5144945 ppb	98
16) bis(2-Chloroisopropyl)...	5.554	121	63868	11554.0008487 ppb #	89
17) 2-Methylphenol	5.537	108	142729	9791.0881973 ppb	100
18) Hexachloroethane	5.813	117	87248	9556.9830831 ppb	96
19) N-Nitrosodi-n-propylamine	5.678	70	89337	9548.0457260 ppb	97
20) 3&4-Methyl phenol	5.684	107	163933	9743.3084732 ppb	96
21) Acetophenone	5.684	105	1392	56.8663825 ppb #	1
24) Nitrobenzene	5.872	77	190980	9720.0146316 ppb	95
25) Isophorone	6.107	82	341081	9651.3889539 ppb	97
26) 2-Nitrophenol	6.196	139	92333	10415.1632604 ppb	92
27) 2,4-Dimethylphenol	6.225	107	178277	9879.0622565 ppb	98
28) bis(2-Chlorethoxy)methane	6.313	93	218277	9874.5945531 ppb	98
29) 2,4-Dichlorophenol	6.449	162	147279	9875.9987307 ppb	96
30) Benzoic Acid	6.260	105	1027	624.5795712 ppb #	1
31) 1,2,4-Trichlorobenzene	6.531	180	157394	9564.8565756 ppb	98
32) Naphthalene	6.619	128	533010	9818.2751438 ppb	99
33) 4-Chloroaniline	6.666	65	74816	9599.8731000 ppb	99
34) Hexachloro-1,3-butadiene	6.737	225	117104	10835.5082290 ppb	99
35) Caprolactam	7.178	113	5492	1019.9031216 ppb #	8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:33:41 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.178	107	163499	9975.3201136 ppb		97
37) 2-Methylnaphthalene	7.354	142	350249	9212.1443051 ppb		99
38) 1-Methylnaphthalene	7.466	142	337344	10040.8740924 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	88619	7809.9728806 ppb		97
42) 2,4,6-Trichlorophenol	7.660	196	114570	10310.1505258 ppb		95
43) 2,4,5-Trichlorophenol	7.707	196	117145	9888.2552836 ppb		93
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	7.890	162	354240	9530.8676668 ppb		99
47) 2-Nitroaniline	7.995	138	121600	10406.8717667 ppb		99
48) Acenaphthylene	8.342	152	579240	10063.6134672 ppb		100
49) Dimethyl phthalate	8.172	163	409844	9686.7258741 ppb		96
50) 2,6-Dinitrotoluene	8.248	165	98191	10417.8727559 ppb		93
51) 3-Nitroaniline	8.443	138	99363	10644.2764031 ppb	#	87
52) Acenaphthene	8.531	153	391486	10128.2300638 ppb		98
53) 2,4-Dinitrophenol	8.548	184	36254	8470.2235433 ppb		91
54) Dibenzofuran	8.719	168	529940	9747.0729855 ppb		99
55) 2,4-Dinitrotoluene	8.690	165	134703	10766.0345148 ppb		95
56) 2,3,4,6-Tetrachlorophenol	8.848	232	97367	11754.7040168 ppb		99
57) 4-Nitrophenol	8.631	139	75291	9720.2977540 ppb		97
58) Fluorene	9.095	166	456304	10163.3234864 ppb		97
59) 4-Chlorophenyl-phenyle...	9.078	204	201260	9845.9650584 ppb		95
60) Diethyl phthalate	8.937	149	443570	9778.9319207 ppb		99
61) 4-Nitroaniline	9.107	138	91524	10454.4369100 ppb		97
62) Azobenzene	9.254	77	497278	10160.2538879 ppb		100
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	64340	8944.3925441 ppb		88
66) N-Nitrosodiphenylamine	9.207	169	369364	9695.8892055 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	115673	9443.7791066 ppb	#	88
69) Hexachlorobenzene	9.695	284	135957	9353.7436428 ppb		97
70) n-octadecane	9.942	55	505	45.1249885 ppb	#	31
71) Pentachlorophenol	9.913	266	81981	10321.2742909 ppb		94
72) Phenanthrene	10.154	178	667021	9238.8361917 ppb		99
73) Anthracene	10.213	178	674648	9710.7790288 ppb		100
74) Carbazole	10.384	167	608406	9968.1924462 ppb		100
75) Di-n-butyl phthalate	10.713	149	853810	9530.4740987 ppb		100
76) 2-nitrodiphenylamine	10.948	167	134	676.2336239 ppb	#	24
77) Fluoranthene	11.466	202	775950	9646.0714056 ppb		100
79) Benzidine	11.560	184	1155	703.8262760 ppb	#	68
80) Pyrene	11.725	202	817318	9731.6754725 ppb		99
82) Benzylbutyl phthalate	12.360	149	441698	10100.8576288 ppb		99
83) 3,3-Dichlorobenzidine	12.972	252	812	32.8798363 ppb	#	62
84) Benzo(a)anthracene	13.025	228	736686m	9099.3529769 ppb		
85) Chrysene	13.066	228	715419	9834.6345319 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.948	149	626991	9790.5241275 ppb		99
87) Di-n-octyl phthalate	13.672	149	1088564	9783.4577372 ppb		99
89) Benzo(b)fluoranthene	14.336	252	723123m	9515.1587154 ppb		
90) Benzo(k)fluoranthene	14.372	252	674549m	9554.5580645 ppb		
91) Benzo(a)pyrene	14.819	252	643506	9254.7623791 ppb		97
92) Indeno(1,2,3-cd)pyrene	16.801	276	676146	9440.0798716 ppb		98
93) Dibenz(a,h)anthracene	16.813	278	562501	9497.3267707 ppb		99
94) Benzo(g,h,i)perylene	17.389	276	594223	9778.1497115 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:33:41 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

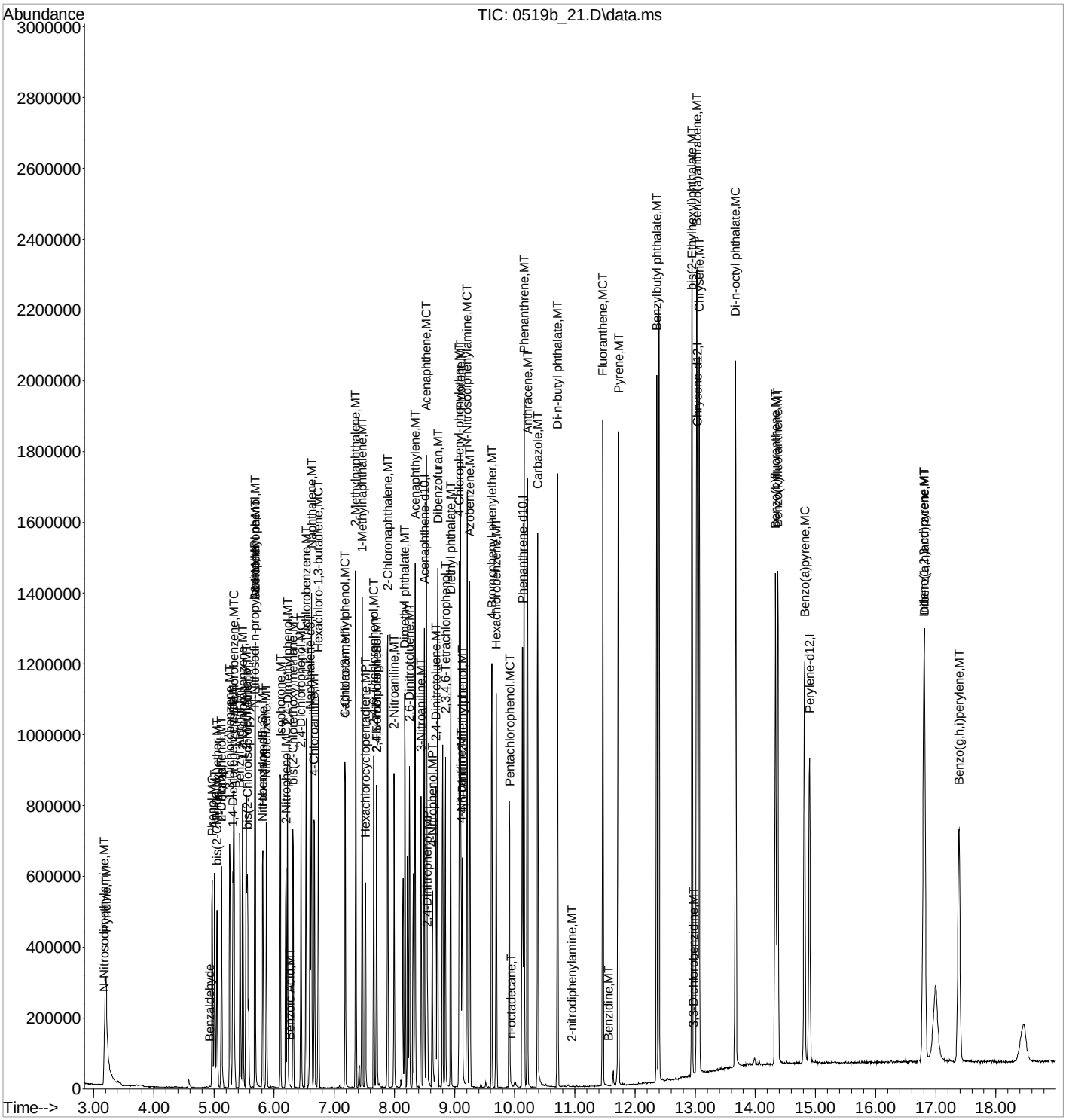
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

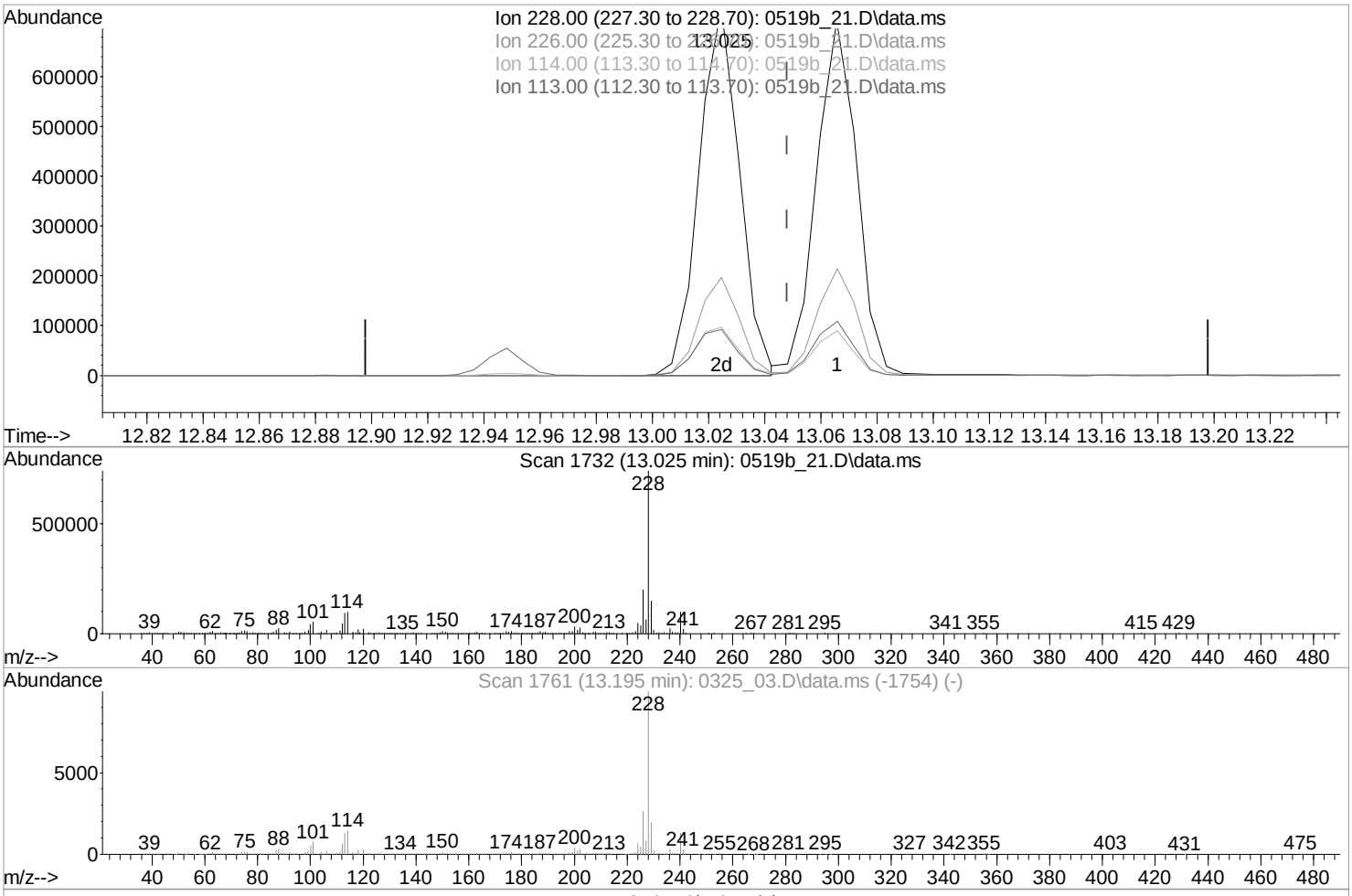
Quant Time: May 20 14:33:41 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:46 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



TIC: 0519b_21.D\data.ms

(84) Benzo(a)anthracene (MT)

13.025min (-0.023) 9099.3529769 ppb m

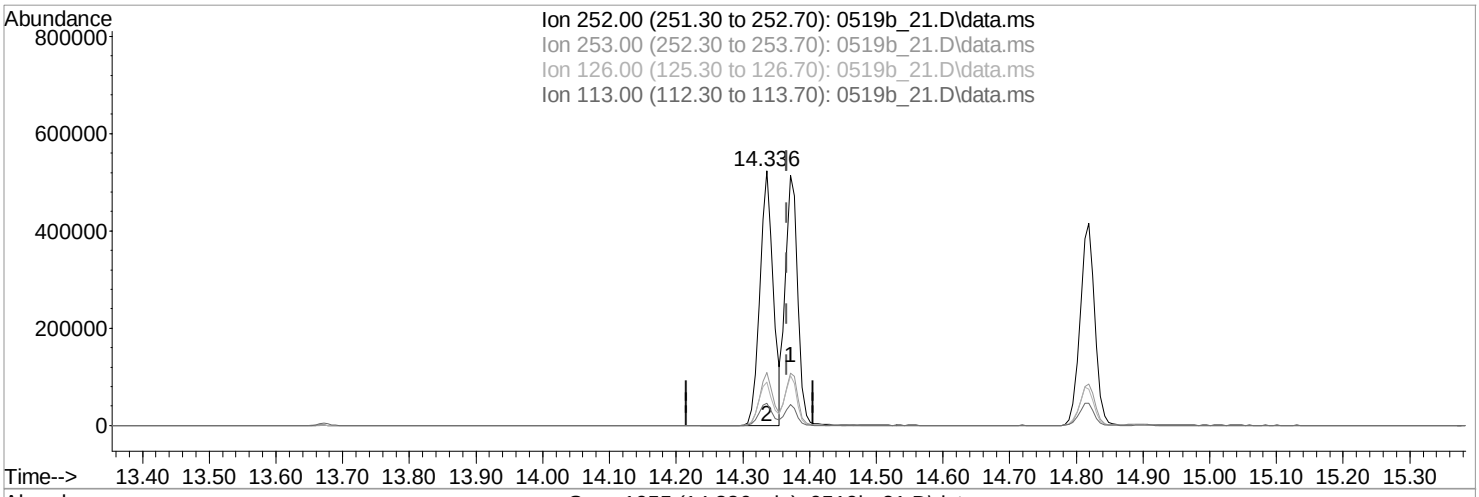
response 736686

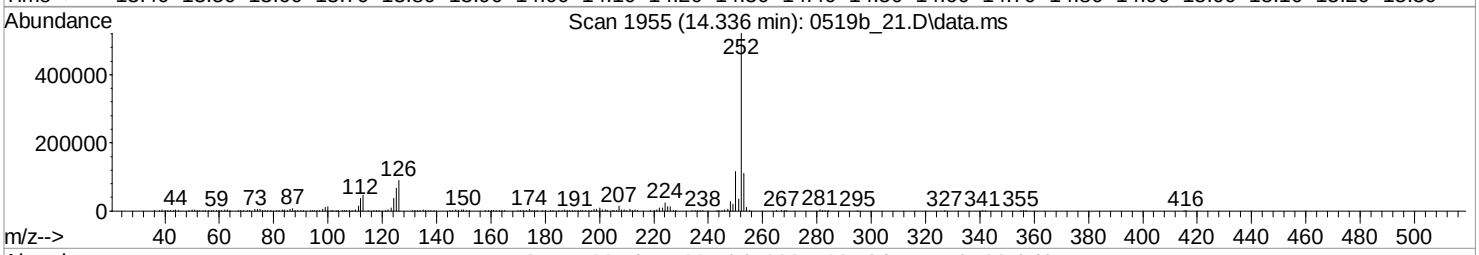
Ion	Exp%	Act%
228.00	100	100
226.00	26.10	26.65
114.00	13.00	13.11
113.00	12.00	12.46

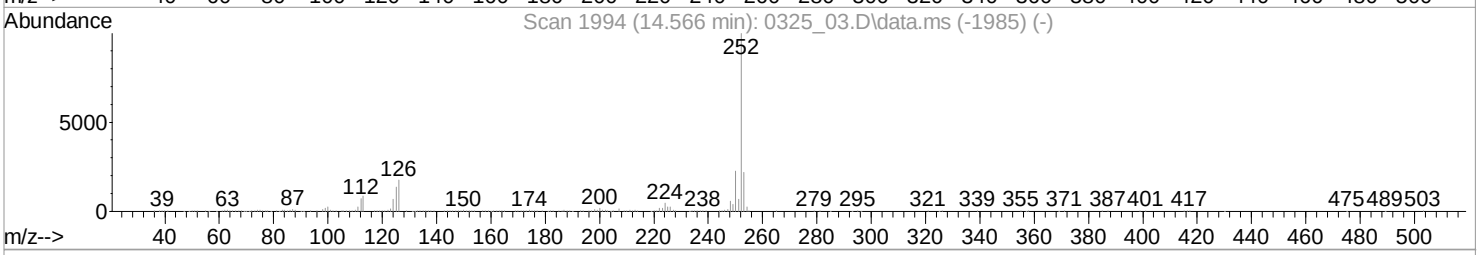
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:46 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_21.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (-0.029) 9515.1587154 ppb m

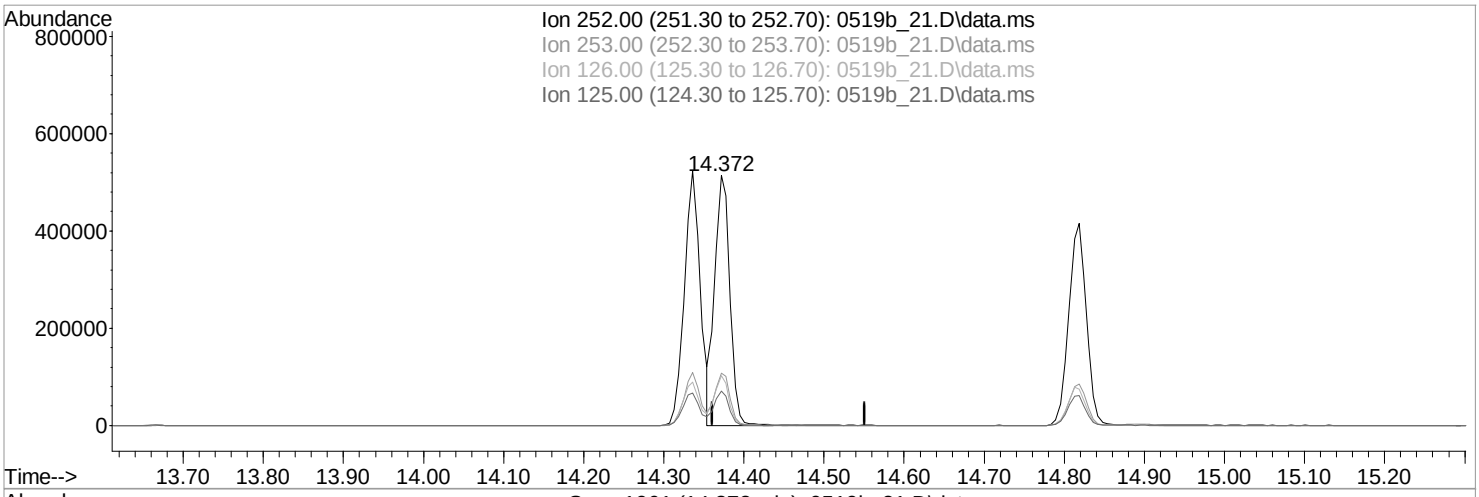
response 723123

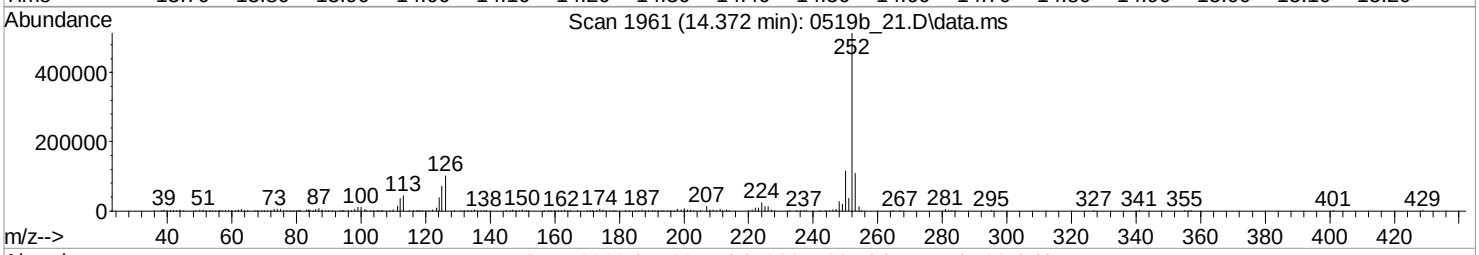
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.91
126.00	16.30	17.10
113.00	8.60	8.78

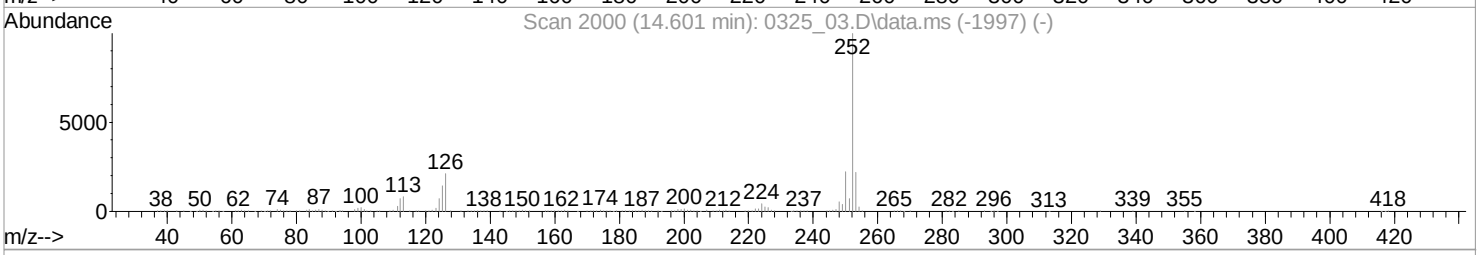
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:46 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_21.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.372min (-0.029) 9554.5580645 ppb m

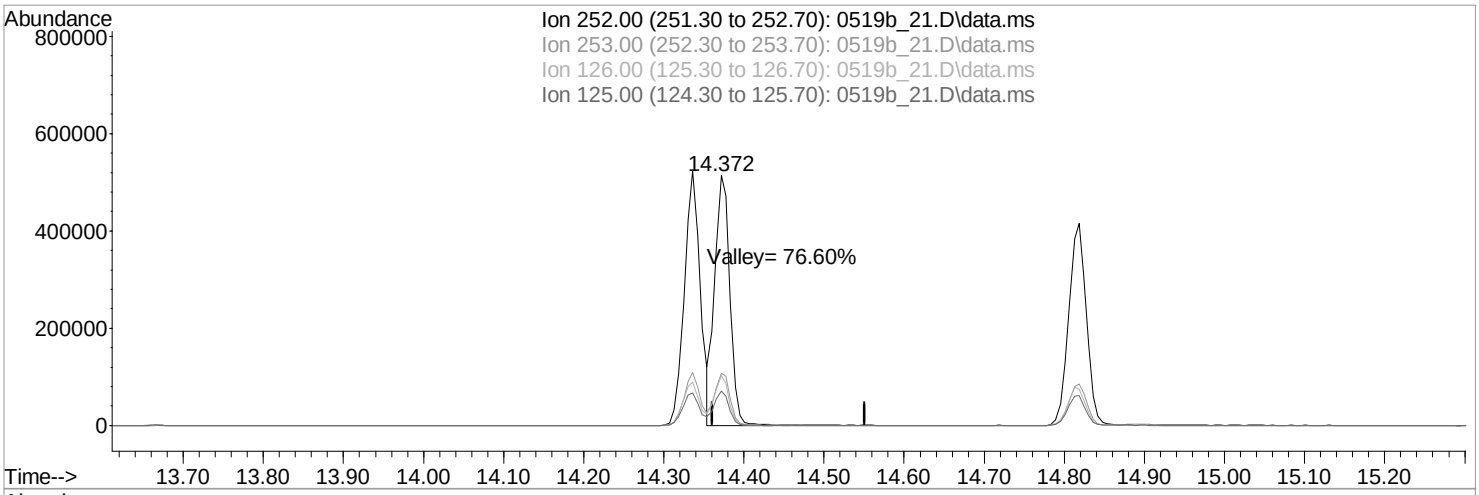
response 674549

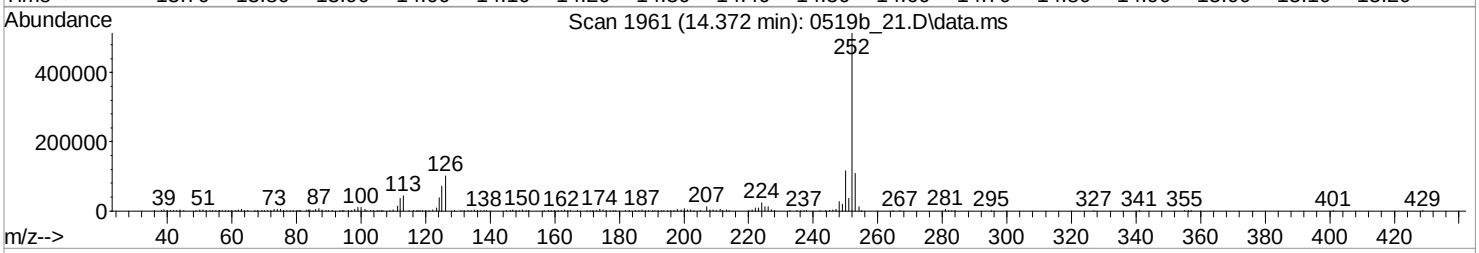
Ion	Exp%	Act%
252.00	100	100
253.00	21.30	20.94
126.00	19.40	19.77
125.00	13.30	13.71

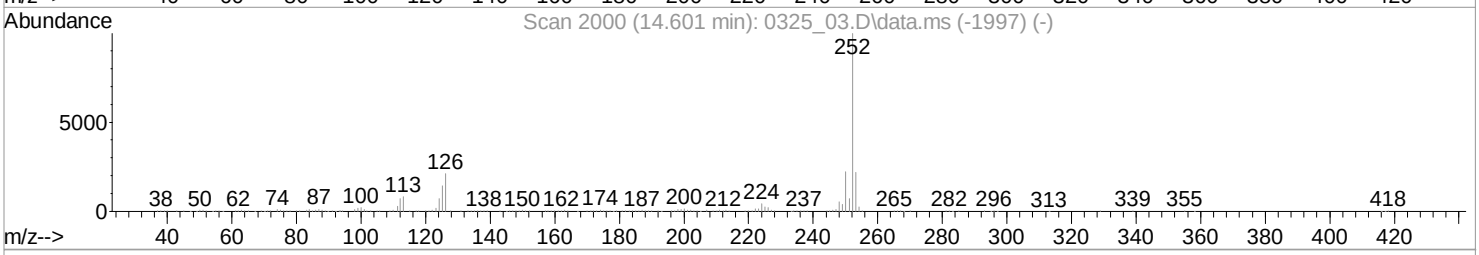
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 21.D
Acq On : 20 May 2015 12:44 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 21 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:25:46 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:19:31 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_21.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.372min (-0.029) 9554.5580645 ppb m

response 674549

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	20.94
126.00	19.40	19.77
125.00	13.30	13.71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 03.D
Acq On : 19 May 2015 5:45 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:24:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:23:28 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.325	152	96989	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.613	136	395296	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.507	164	269376	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.142	188	479866	8000.0000000 ppb	0.00
78) Chrysene-d12	13.060	240	499472	8000.0000000 ppb	0.00
88) Perylene-d12	14.930	264	466086	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.219	112	145995	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 50000.00%#		
7) Phenol-d5	4.972	99	201247	10000.0993814 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 50000.50%#		
23) Nitrobenzene-d5	5.866	82	212517	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 100000.00%#		
44) 2-Fluorobiphenyl	7.754	172	423383	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.378	330	63070	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.872	244	610678	9988.0673992 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 99880.67%#		
Target Compounds					Qvalue
2) Pyridine	3.219	79	238238	10000.0419750 ppb	100
3) N-Nitrosodimethylamine	3.190	42	126482	10000.0000000 ppb	100
5) Aniline	5.025	66	105598	10000.0000000 ppb	100
6) bis(2-Chloroethyl)ether	5.060	63	162860	10000.0000000 ppb	100
8) Phenol	4.984	94	220020	10000.0000000 ppb	100
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.137	128	171112	10000.0000000 ppb	100
11) n-Decane	5.137	41	118025	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.272	146	193884	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.343	146	196612	10000.0000000 ppb	100
14) Benzyl Alcohol	5.448	79	153683	10038.8009589 ppb	100
15) 1,2-Dichlorobenzene	5.490	146	189952	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)...	5.572	121	56280	10000.0000000 ppb	100
17) 2-Methylphenol	5.548	108	150982	10063.3198251 ppb	100
18) Hexachloroethane	5.825	117	94446	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.695	70	98379	10000.0000000 ppb	100
20) 3&4-Methyl phenol	5.701	107	179393	10024.3073794 ppb	100
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.884	77	204616	9997.0196944 ppb	100
25) Isophorone	6.119	82	372348	10000.0000000 ppb	100
26) 2-Nitrophenol	6.207	139	91184	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	6.237	107	191441	10016.4812741 ppb	100
28) bis(2-Chlorethoxy)methane	6.331	93	232853	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.460	162	157613	10003.4907780 ppb	100
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.542	180	167484	10000.0000000 ppb	100
32) Naphthalene	6.631	128	556899	10000.0000000 ppb	100
33) 4-Chloroaniline	6.684	65	80561	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.748	225	105558	10000.0000000 ppb	100
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 03.D
Acq On : 19 May 2015 5:45 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:24:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:23:28 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	7.195	107	172853	10042.6449143 ppb	100
37) 2-Methylnaphthalene	7.372	142	392701	10000.0000000 ppb	100
38) 1-Methylnaphthalene	7.478	142	347098	10000.0000000 ppb	100
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41) Hexachlorocyclopentadiene	7.531	237	111636	10000.0000000 ppb	100
42) 2,4,6-Trichlorophenol	7.672	196	115651	10000.0000000 ppb	100
43) 2,4,5-Trichlorophenol	7.719	196	121156	10027.9759638 ppb	100
45) Biphenyl	7.872	154	464525	10000.0000000 ppb	100
46) 2-Chloronaphthalene	7.901	162	376974	9998.2760404 ppb	100
47) 2-Nitroaniline	8.007	138	123463	10000.0000000 ppb	100
48) Acenaphthylene	8.354	152	615269	10000.0000000 ppb	100
49) Dimethyl phthalate	8.189	163	434047	10000.0000000 ppb	100
50) 2,6-Dinitrotoluene	8.266	165	99755	10000.0000000 ppb	100
51) 3-Nitroaniline	8.454	138	101178	10000.0000000 ppb	100
52) Acenaphthene	8.542	153	394066	10000.0000000 ppb	100
53) 2,4-Dinitrophenol	8.566	184	39321	10000.0000000 ppb	100
54) Dibenzofuran	8.731	168	552462	10000.0000000 ppb	100
55) 2,4-Dinitrotoluene	8.701	165	136299	10000.0000000 ppb	100
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d	
57) 4-Nitrophenol	8.648	139	81912	10078.0038879 ppb	100
58) Fluorene	9.107	166	466812	10000.0000000 ppb	100
59) 4-Chlorophenyl-phenyle...	9.095	204	204789	10000.0000000 ppb	100
60) Diethyl phthalate	8.948	149	460443	10000.0000000 ppb	100
61) 4-Nitroaniline	9.125	138	91945	10033.0634425 ppb	100
62) Azobenzene	9.266	77	528549	10000.0000000 ppb	100
63) Atrazine	0.000		0	N.D.	
65) 4,6-Dinitro-2-methylph...	9.148	198	65180	10000.1534236 ppb	100
66) N-Nitrosodiphenylamine	9.225	169	383694	10000.0000000 ppb	100
68) 4-Bromophenyl-phenylether	9.630	248	121585	10000.0000000 ppb	100
69) Hexachlorobenzene	9.707	284	139918	10000.0000000 ppb	100
70) n-octadecane	9.948	55	119554	10000.0000000 ppb	100
71) Pentachlorophenol	9.925	266	73067	10052.5555479 ppb	100
72) Phenanthrene	10.172	178	717037	10000.0000000 ppb	100
73) Anthracene	10.225	178	706755	10000.0000000 ppb	100
74) Carbazole	10.401	167	645096	10050.6351991 ppb	100
75) Di-n-butyl phthalate	10.730	149	930618	10000.0000000 ppb	100
76) 2-nitrodiphenylamine	0.000		0	N.D. d	
77) Fluoranthene	11.483	202	816782	10000.0000000 ppb	100
79) Benzidine	0.000		0	N.D. d	
80) Pyrene	11.742	202	870521	9983.6519905 ppb	100
82) Benzylbutyl phthalate	12.377	149	460358	9988.0673992 ppb	100
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d	
84) Benzo(a)anthracene	13.048	228	797424	9988.0673992 ppb	100
85) Chrysene	13.089	228	749898	9988.0673992 ppb	100
86) bis(2-Ethylhexyl)phtha...	12.966	149	670988	9988.0673992 ppb	100
87) Di-n-octyl phthalate	13.701	149	1166482	9988.0673992 ppb	100
89) Benzo(b)fluoranthene	14.365	252	778394	9994.2499882 ppb	100
90) Benzo(k)fluoranthene	14.401	252	677361	9997.2903785 ppb	100
91) Benzo(a)pyrene	14.848	252	697404	9991.5135842 ppb	100
92) Indeno(1,2,3-cd)pyrene	16.842	276	735304	9994.2499882 ppb	100
93) Dibenz(a,h)anthracene	16.854	278	615246	9990.5638887 ppb	100
94) Benzo(g,h,i)perylene	17.430	276	622852	9994.2499882 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 03.D
Acq On : 19 May 2015 5:45 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

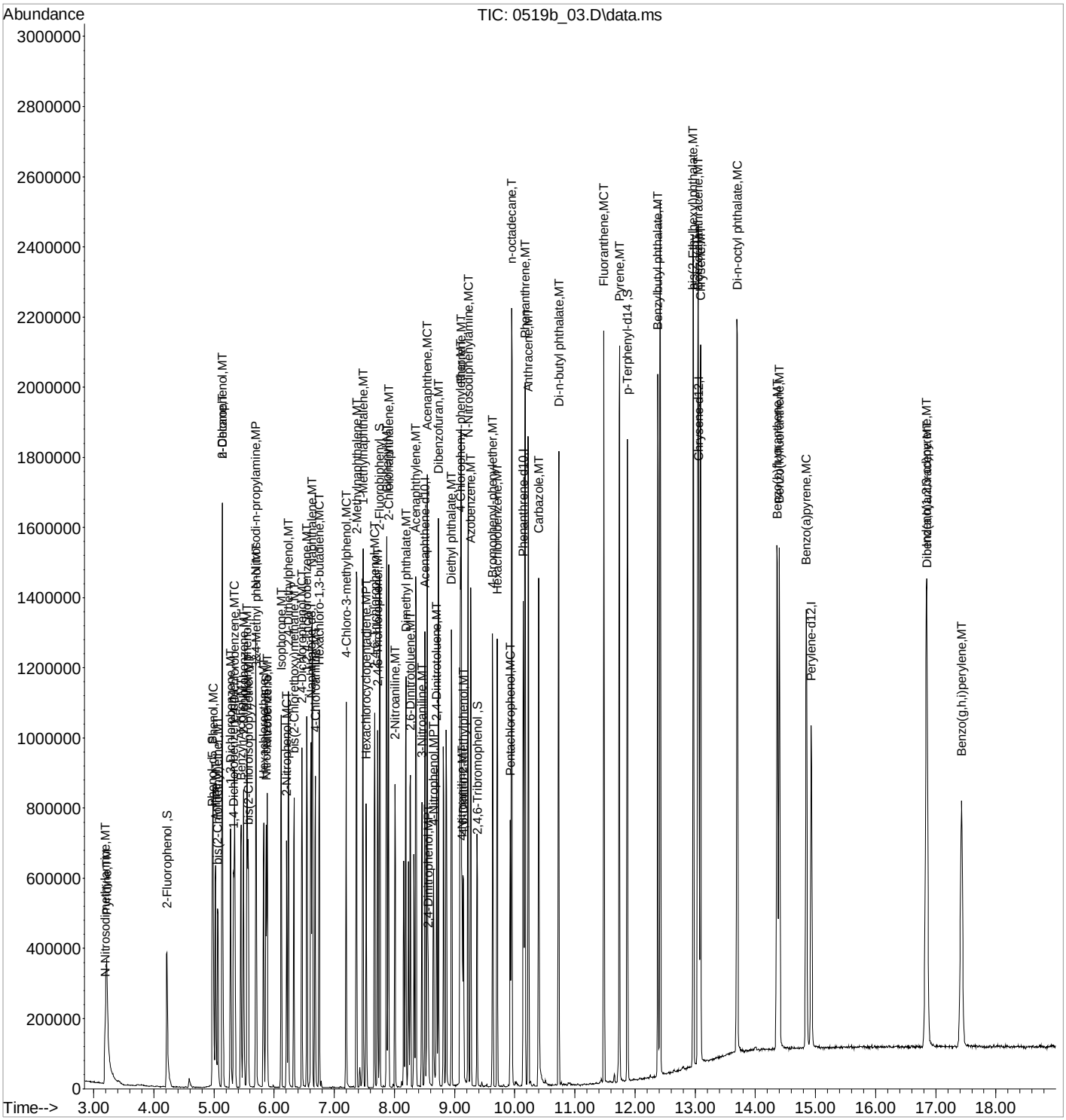
Quant Time: May 20 11:24:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:23:28 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 03.D
Acq On : 19 May 2015 5:45 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:24:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:23:28 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 03.D
Acq On    : 19 May 2015   5:45 pm
Operator  : 377
Sample    : MSTD SVMS 10K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 11:23:37 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 11:23:28 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```
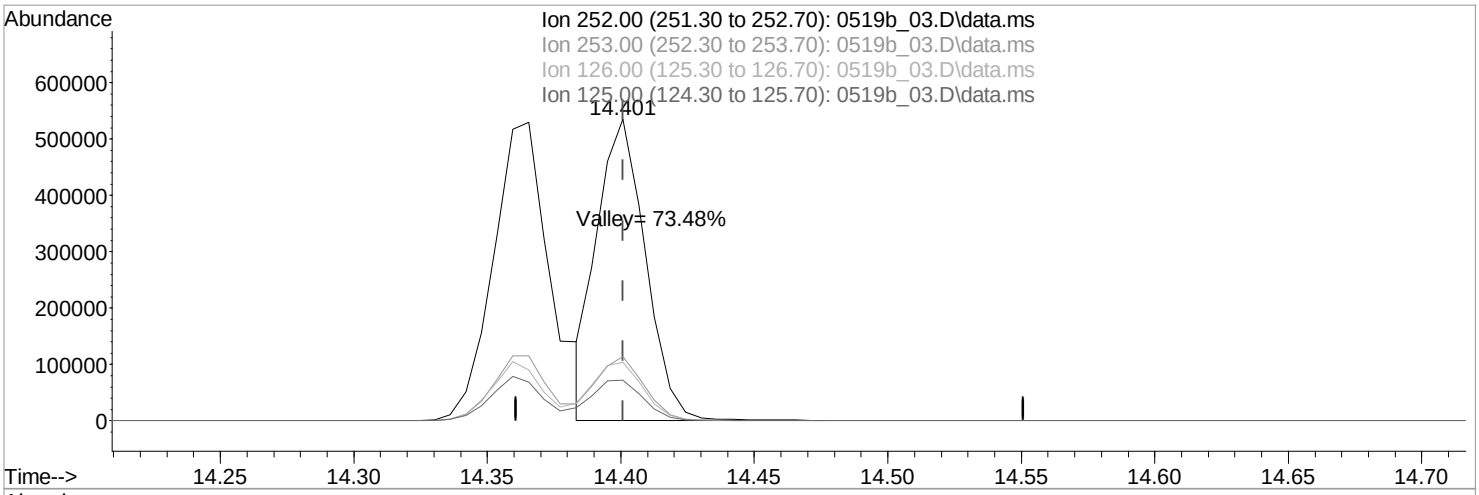
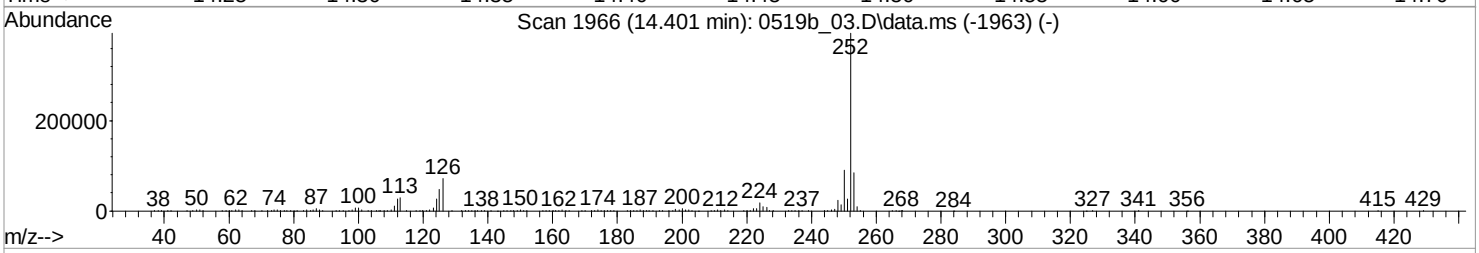
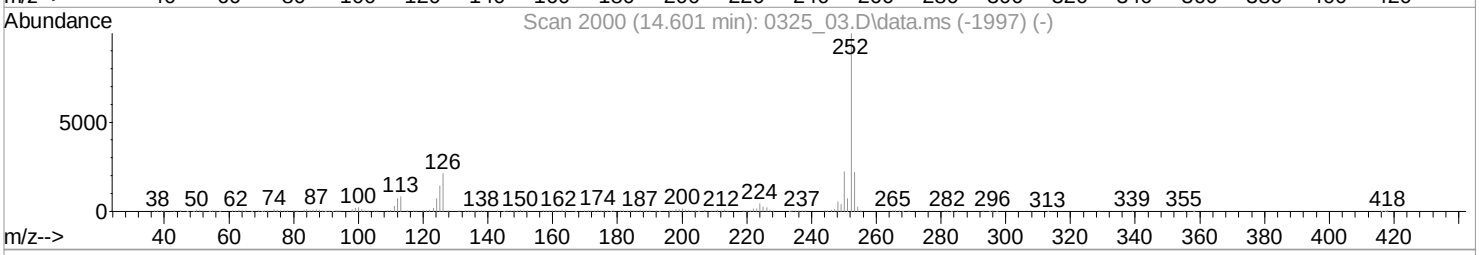







TIC: 0519b_03.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.401min (0.000) 9997.2903785 ppb

Qvalue = 100

response 677361

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	21.23
126.00	19.40	19.37
125.00	13.30	13.28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:03 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.319	152	104701	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.601	136	415379	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.495	164	284408	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.131	188	486625	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.042	240	484420	8000.0000000 ppb	-0.02
88) Perylene-d12	14.907	264	450761	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D. d	
13) 1,4-Dichlorobenzene	0.000		0	N.D. d	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D. d	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D. d	
17) 2-Methylphenol	0.000		0	N.D. d	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D. d	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	6.625	128	2492	42.5842971 ppb	88
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D. d	
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:03 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
37) 2-Methylnaphthalene	7.360	142	1689	40.9303563 ppb	#	92
38) 1-Methylnaphthalene	7.466	142	1391	38.1375598 ppb	#	82
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	0.000		0	N.D. d		
42) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
43) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
45) Biphenyl	7.860	154	2012	41.0238085 ppb		94
46) 2-Chloronaphthalene	7.890	162	1843	46.2973520 ppb		94
47) 2-Nitroaniline	0.000		0	N.D. d		
48) Acenaphthylene	8.342	152	2052	31.5885298 ppb		90
49) Dimethyl phthalate	0.000		0	N.D. d		
50) 2,6-Dinitrotoluene	0.000		0	N.D. d		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) Acenaphthene	8.531	153	1689	40.5954888 ppb		92
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	8.719	168	2342	40.1514812 ppb	#	91
55) 2,4-Dinitrotoluene	0.000		0	N.D. d		
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	9.095	166	1830	37.1301043 ppb		97
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
60) Diethyl phthalate	0.000		0	N.D. d		
61) 4-Nitroaniline	0.000		0	N.D. d		
62) Azobenzene	0.000		0	N.D. d		
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D. d		
68) 4-Bromophenyl-phenylether	0.000		0	N.D. d		
69) Hexachlorobenzene	0.000		0	N.D. d		
70) n-octadecane	0.000		0	N.D. d		
71) Pentachlorophenol	0.000		0	N.D.		
72) Phenanthrene	10.154	178	3190	43.8707117 ppb		92
73) Anthracene	10.213	178	2609	36.4024616 ppb		86
74) Carbazole	10.384	167	2408	36.9956964 ppb		98
75) Di-n-butyl phthalate	0.000		0	N.D. d		
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	3344	40.3725028 ppb		91
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.725	202	3202	37.8634856 ppb		96
82) Benzylbutyl phthalate	0.000		0	N.D. d		
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d		
84) Benzo(a)anthracene	13.030	228	4362m	56.3335221 ppb		
85) Chrysene	13.066	228	2924	40.1555630 ppb		83
86) bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
87) Di-n-octyl phthalate	0.000		0	N.D. d		
89) Benzo(b)fluoranthene	14.336	252	3240	43.0145579 ppb		94
90) Benzo(k)fluoranthene	14.372	252	3164	48.2856762 ppb		86
91) Benzo(a)pyrene	14.819	252	2906	43.0489124 ppb		90
92) Indeno(1,2,3-cd)pyrene	16.801	276	2758	38.7612047 ppb	#	79
93) Dibenz(a,h)anthracene	16.813	278	2399	40.2801589 ppb		81
94) Benzo(g,h,i)perylene	17.389	276	2322	38.5254114 ppb		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:03 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

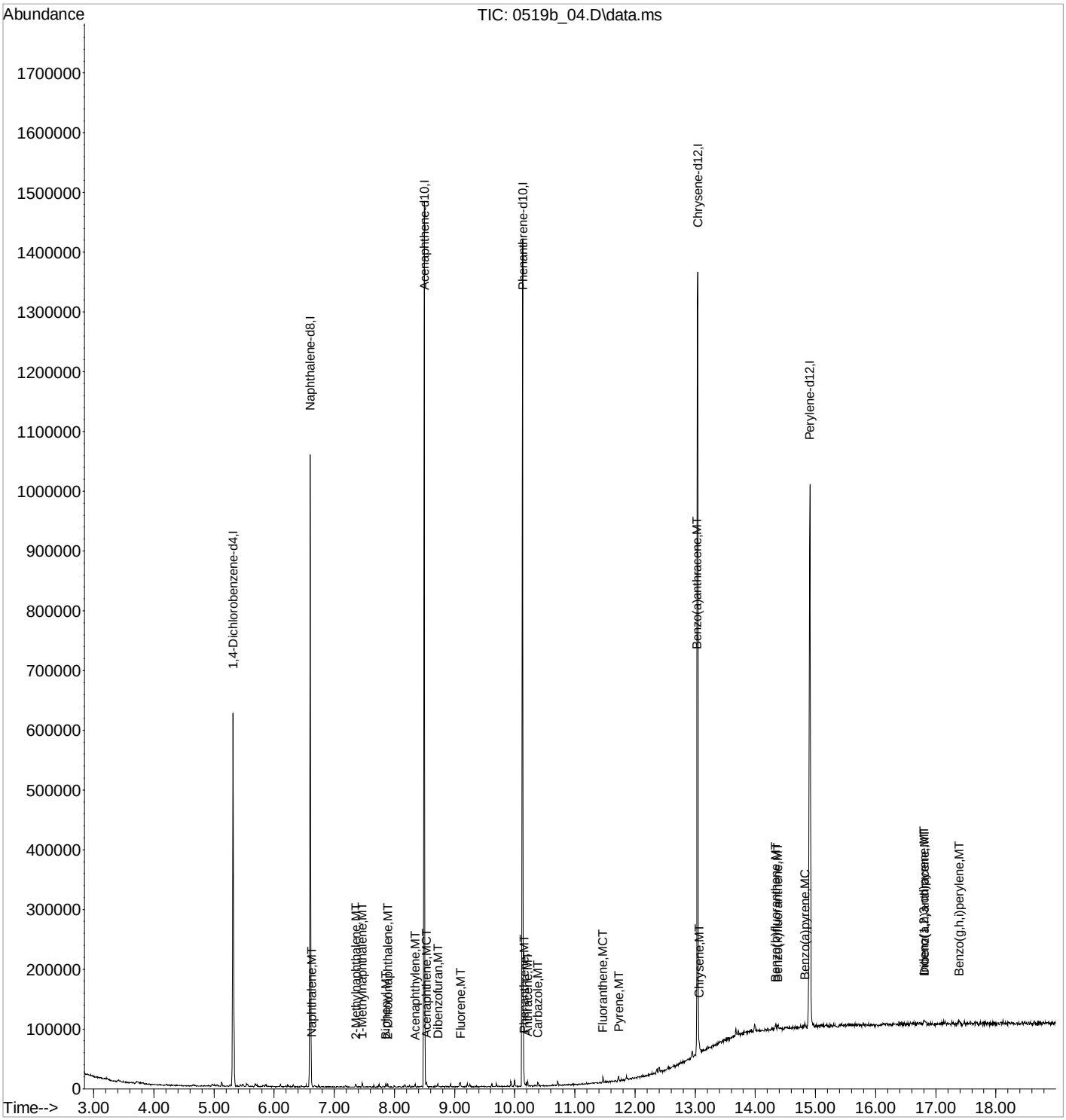
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On : 19 May 2015 6:08 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:03 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 04.D
Acq On    : 19 May 2015   6:08 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:52:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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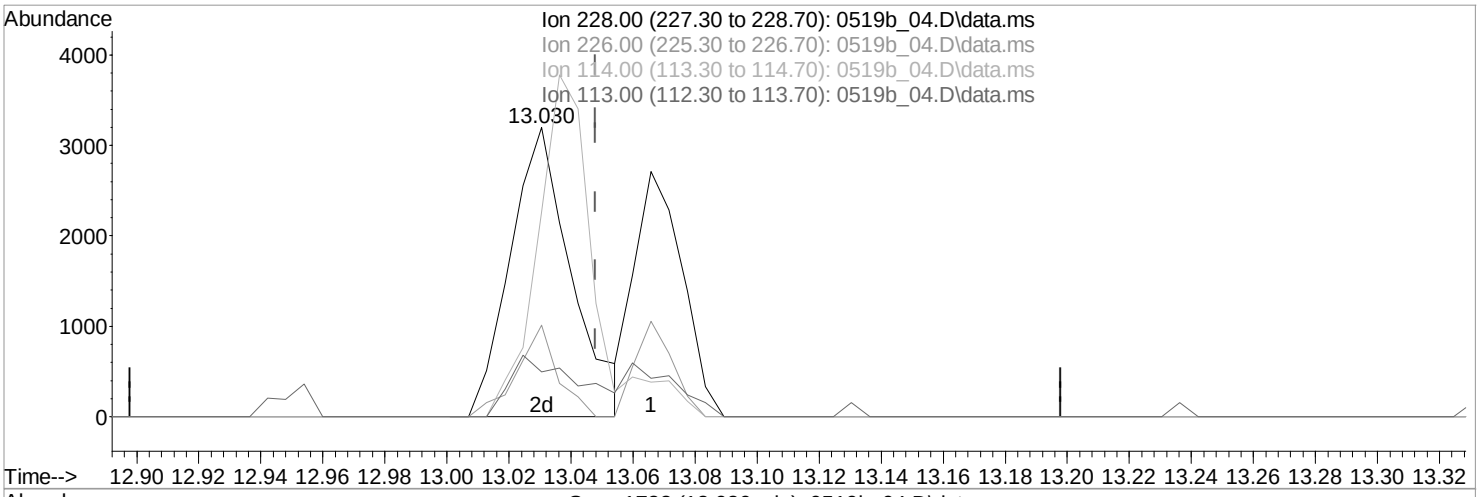
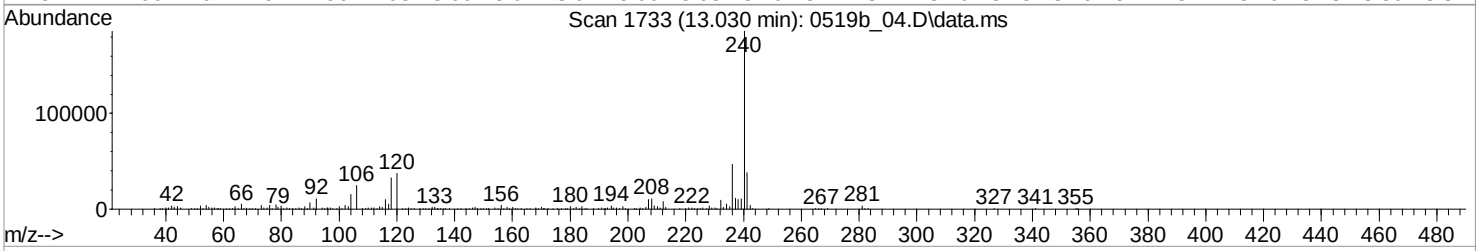
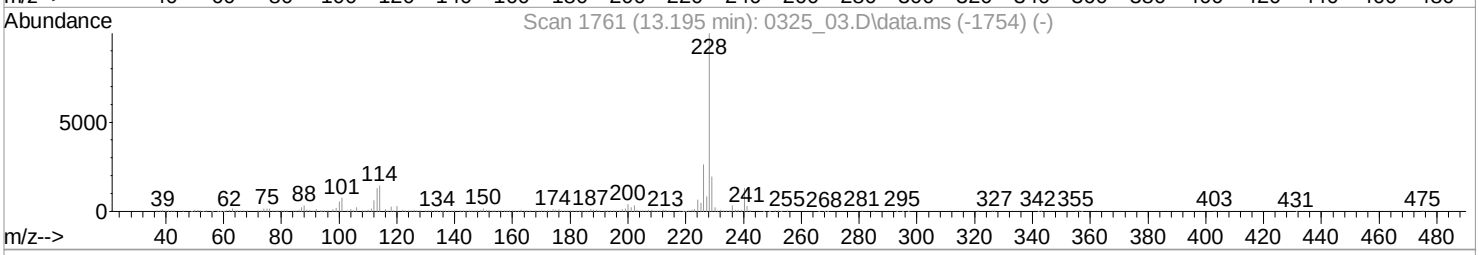






TIC: 0519b_04.D\data.ms

(84) Benzo(a)anthracene (MT)

13.030min (-0.018) 56.3335221 ppb m

response 4362

Ion	Exp%	Act%
228.00	100	100
226.00	26.10	35.86
114.00	13.00	80.14#
113.00	12.00	17.59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:56:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	92884	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.601	136	375605	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.495	164	249476	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.130	188	430721	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.036	240	432684	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	412549	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.213	112	2649	189.4634964 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 947.32%#		
7) Phenol-d5	4.960	99	3386	175.6885371 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 878.44%#		
23) Nitrobenzene-d5	5.854	82	3705	183.4786731 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 1834.79%#		
44) 2-Fluorobiphenyl	7.742	172	7849	200.1755548 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 2001.76%#		
67) 2,4,6-Tribromophenol	9.360	330	796	140.6093401 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 703.05%#		
81) p-Terphenyl-d14	11.854	244	10604	200.2069824 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 2002.07%#		
Target Compounds					Qvalue
2) Pyridine	3.231	79	4103	179.8348583 ppb #	82
3) N-Nitrosodimethylamine	3.190	42	2916m	240.7356270 ppb	
5) Aniline	5.013	66	1924	190.2527516 ppb	85
6) bis(2-Chloroethyl)ether	5.048	63	3183	204.0815669 ppb	88
8) Phenol	4.978	94	3891	184.6633212 ppb	87
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.125	128	3224	196.7415721 ppb	97
11) n-Decane	5.125	41	2851m	252.2346696 ppb	
12) 1,3-Dichlorobenzene	5.260	146	3684	198.4080196 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	3602m	191.3001274 ppb	
14) Benzyl Alcohol	5.437	79	2552	174.0677259 ppb	100
15) 1,2-Dichlorobenzene	5.478	146	3645	200.3711699 ppb	95
16) bis(2-Chloroisopropyl)...	5.560	121	1124	208.5421248 ppb #	77
17) 2-Methylphenol	5.537	108	3057	212.7615335 ppb	95
18) Hexachloroethane	5.813	117	1865	206.1943869 ppb #	81
19) N-Nitrosodi-n-propylamine	5.678	70	1838	195.0853581 ppb	92
20) 3&4-Methyl phenol	5.690	107	3087	180.1221340 ppb	91
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.872	77	3846	197.7567390 ppb	95
25) Isophorone	6.101	82	6882	194.5166125 ppb	90
26) 2-Nitrophenol	6.195	139	1457	168.1635887 ppb	95
27) 2,4-Dimethylphenol	6.225	107	3183	175.2701356 ppb	94
28) bis(2-Chlorethoxy)methane	6.319	93	4248	191.9966828 ppb	87
29) 2,4-Dichlorophenol	6.448	162	2582	172.4673274 ppb	93
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.531	180	3302	207.4888670 ppb	91
32) Naphthalene	6.619	128	11150	210.7121043 ppb	99
33) 4-Chloroaniline	6.672	65	1293	168.9136441 ppb #	82
34) Hexachloro-1,3-butadiene	6.737	225	2383	237.5876950 ppb	95
35) Caprolactam	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:56:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.189	107	2813	172.0013964 ppb		84
37) 2-Methylnaphthalene	7.360	142	7585	203.2753103 ppb		97
38) 1-Methylnaphthalene	7.466	142	6649	201.6022044 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	1101	106.4910673 ppb		88
42) 2,4,6-Trichlorophenol	7.660	196	1902	177.5788536 ppb		94
43) 2,4,5-Trichlorophenol	7.713	196	2101m	187.7692786 ppb		
45) Biphenyl	7.860	154	9028	209.8517455 ppb		96
46) 2-Chloronaphthalene	7.889	162	7267	208.1129057 ppb		97
47) 2-Nitroaniline	7.995	138	1324	115.7927284 ppb	#	67
48) Acenaphthylene	8.342	152	10640	186.7268288 ppb		94
49) Dimethyl phthalate	8.172	163	7885	196.1530505 ppb		94
50) 2,6-Dinitrotoluene	8.248	165	1473	159.4403362 ppb		96
51) 3-Nitroaniline	8.442	138	1402	149.6208270 ppb		89
52) Acenaphthene	8.531	153	7532	206.3818368 ppb		90
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	8.719	168	10723	209.5771945 ppb		99
55) 2,4-Dinitrotoluene	8.689	165	1772	140.3786869 ppb		86
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.654	139	681	90.4699252 ppb	#	91
58) Fluorene	9.095	166	8567	198.1604058 ppb		95
59) 4-Chlorophenyl-phenyle...	9.083	204	4017	211.7996968 ppb		96
60) Diethyl phthalate	8.936	149	8729	204.7004259 ppb		96
61) 4-Nitroaniline	9.113	138	1160	136.6764085 ppb	#	81
62) Azobenzene	9.254	77	8485	173.3391724 ppb		97
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	503	85.9773837 ppb	#	59
66) N-Nitrosodiphenylamine	9.207	169	6669	193.6420371 ppb		93
68) 4-Bromophenyl-phenylether	9.619	248	2193	200.9474808 ppb	#	82
69) Hexachlorobenzene	9.695	284	2822	224.7022153 ppb		90
70) n-octadecane	9.936	55	1910m	177.9890108 ppb		
71) Pentachlorophenol	9.919	266	390	59.7783255 ppb	#	78
72) Phenanthrene	10.154	178	14120	219.3901190 ppb		98
73) Anthracene	10.213	178	12465	196.4931100 ppb		96
74) Carbazole	10.383	167	11194	194.3025038 ppb		98
75) Di-n-butyl phthalate	10.713	149	15154	181.4177465 ppb		98
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	13238	180.5677356 ppb		97
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.719	202	15251	201.9058089 ppb		95
82) Benzylbutyl phthalate	12.360	149	7759	194.3264123 ppb		88
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d		
84) Benzo(a)anthracene	13.024	228	15361	222.1017406 ppb		90
85) Chrysene	13.066	228	13047	200.5996830 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.948	149	10916	187.5730970 ppb		98
87) Di-n-octyl phthalate	13.671	149	20348	201.1247248 ppb		99
89) Benzo(b)fluoranthene	14.336	252	13927	202.0220732 ppb		93
90) Benzo(k)fluoranthene	14.371	252	12902	215.1343089 ppb		96
91) Benzo(a)pyrene	14.818	252	12698	205.5288022 ppb		91
92) Indeno(1,2,3-cd)pyrene	16.801	276	13076	200.7930659 ppb		96
93) Dibenz(a,h)anthracene	16.818	278	10660	195.5640068 ppb		93
94) Benzo(g,h,i)perylene	17.377	276	11119	201.5680037 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:56:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

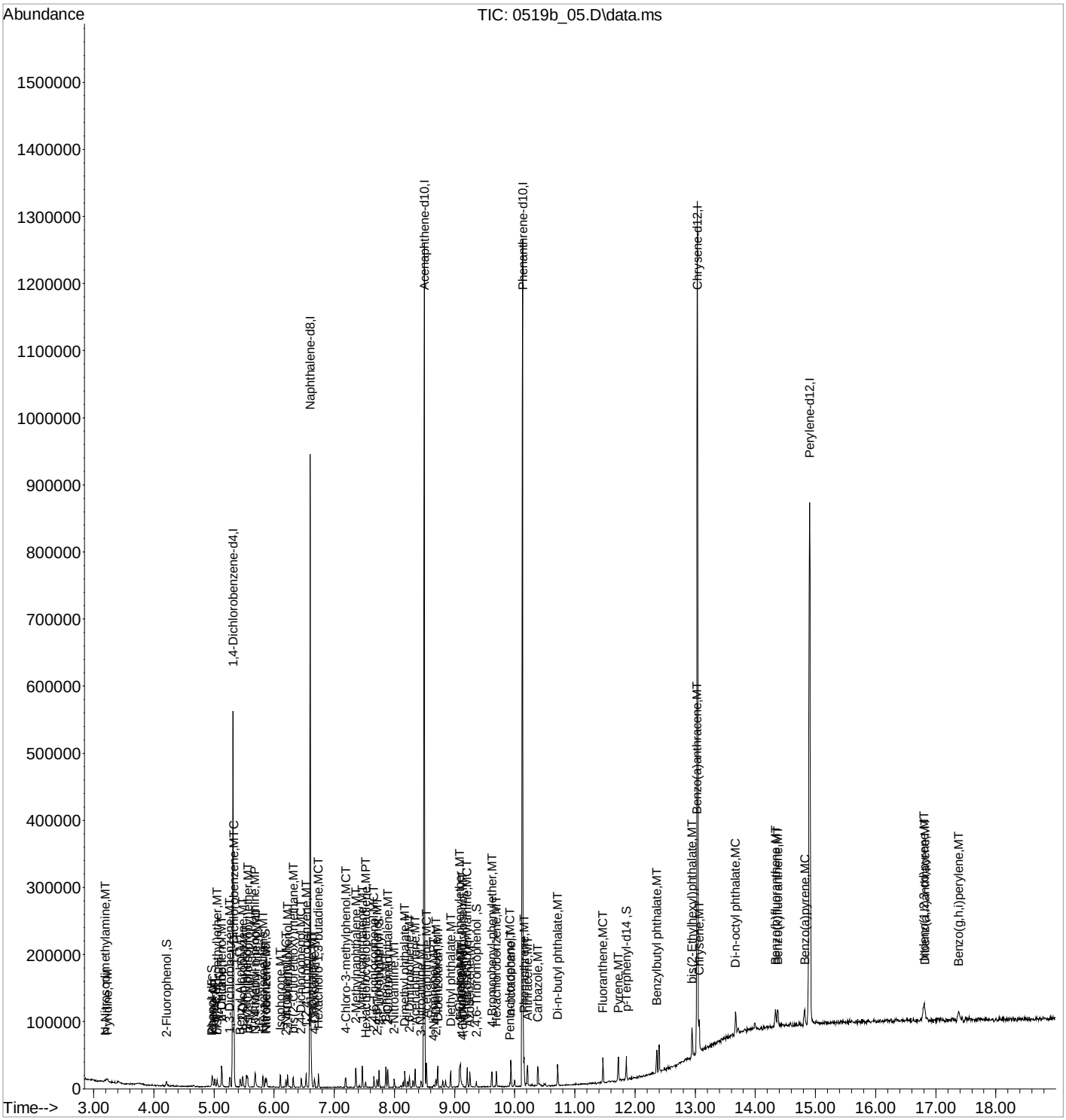
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:56:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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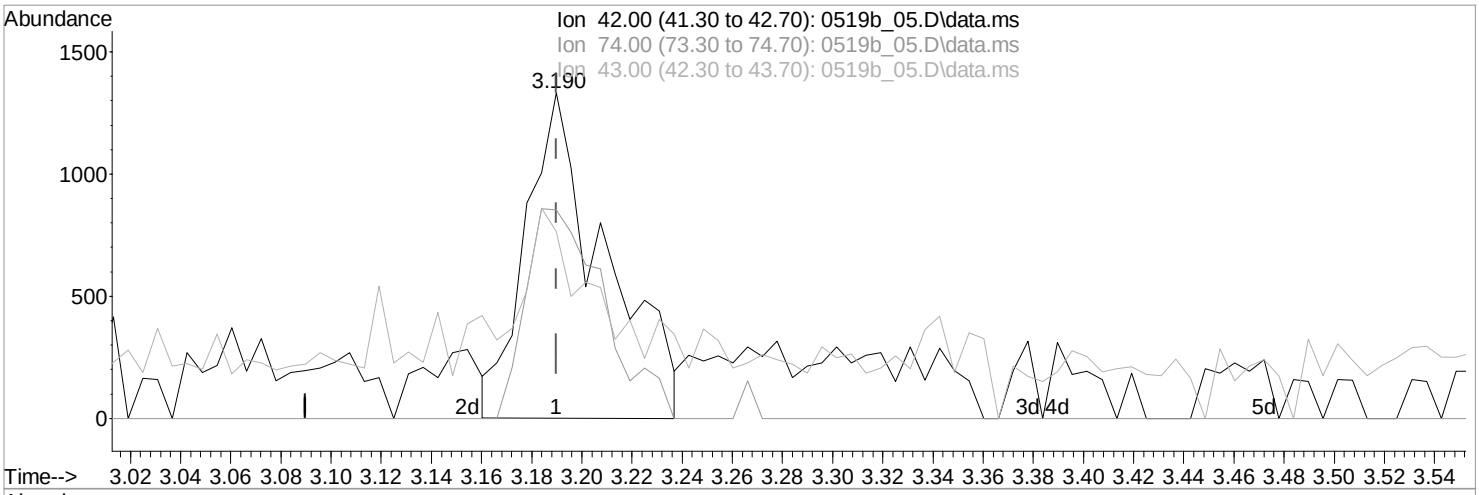
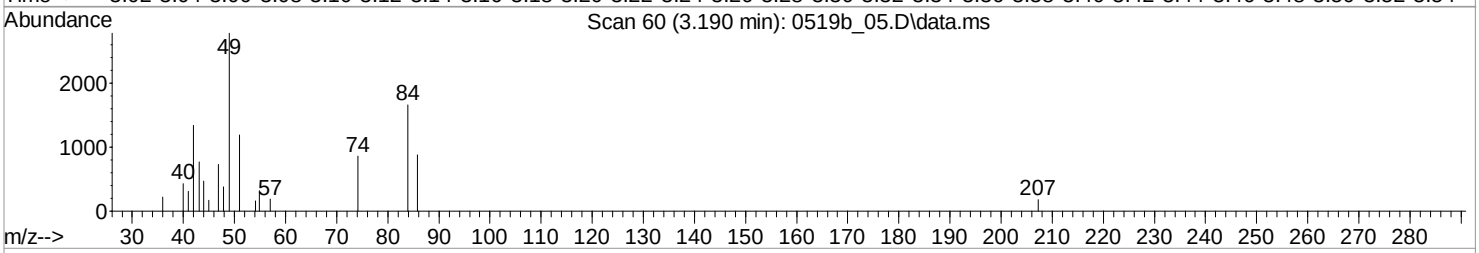
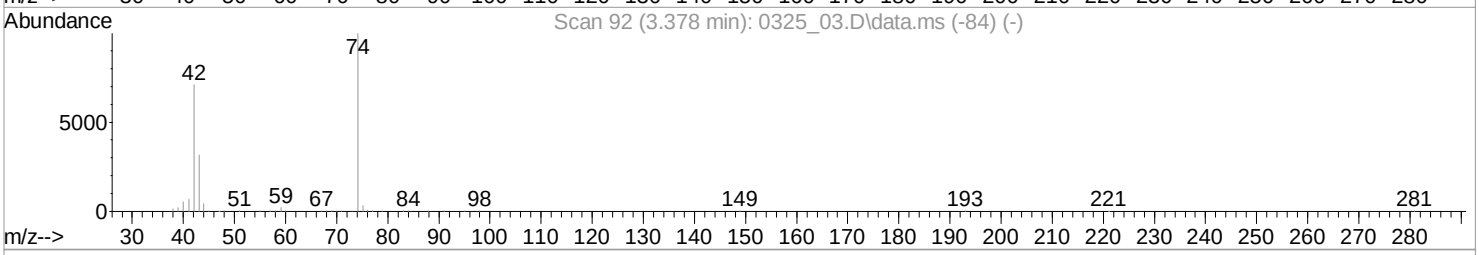






TIC: 0519b_05.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.190min (0.000) 240.7356270 ppb m

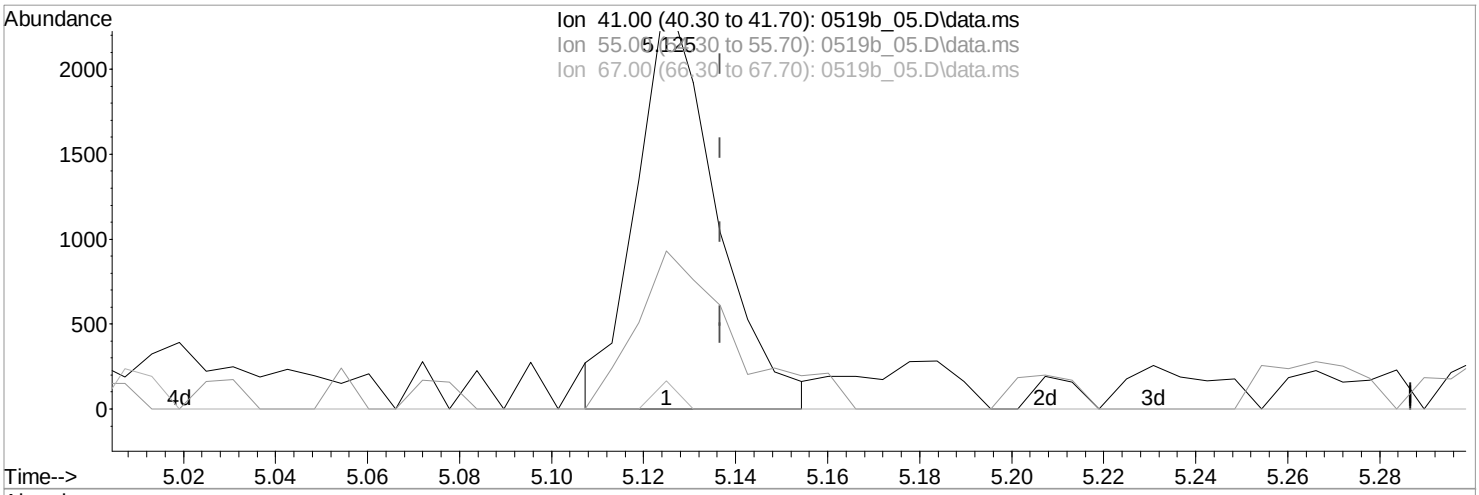
response 2916

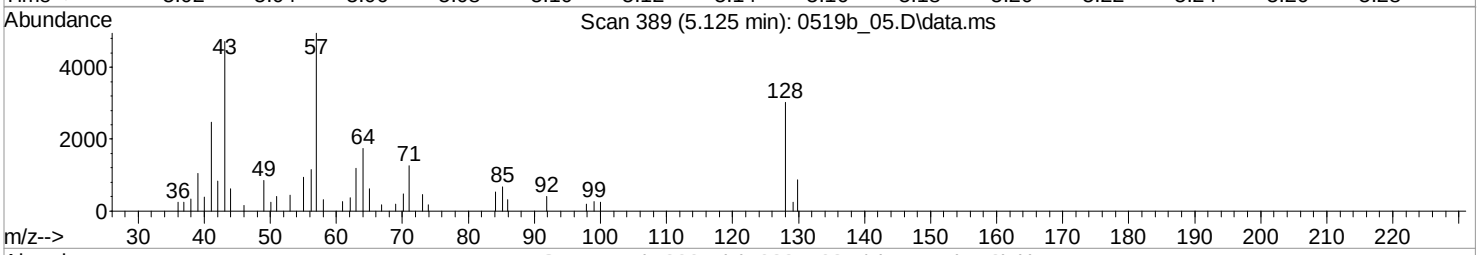
Ion	Exp%	Act%
42.00	100	100
74.00	89.60	63.75#
43.00	50.70	133.09#
0.00	0.00	0.00

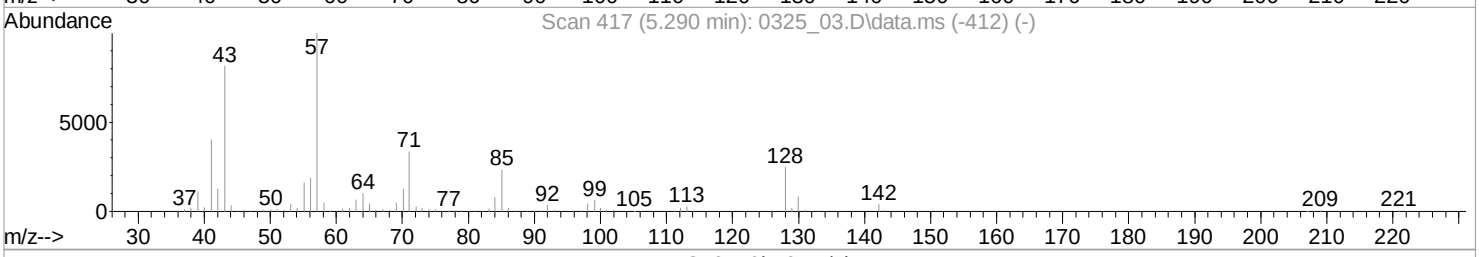
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(11) n-Decane (T)

5.125min (-0.012) 252.2346696 ppb m

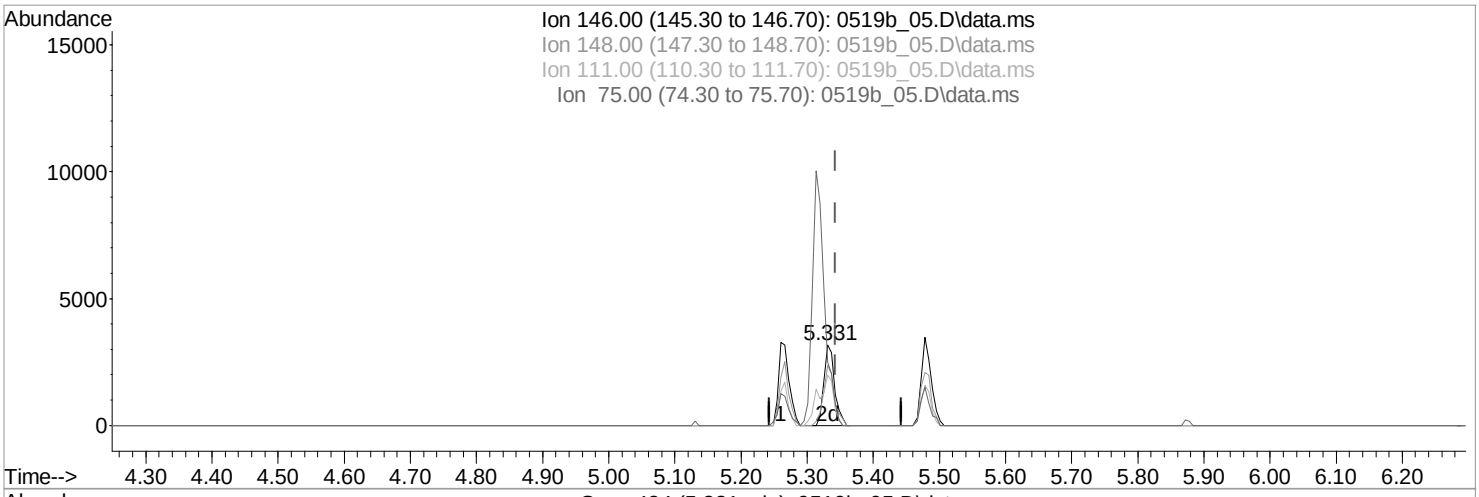
response 2851

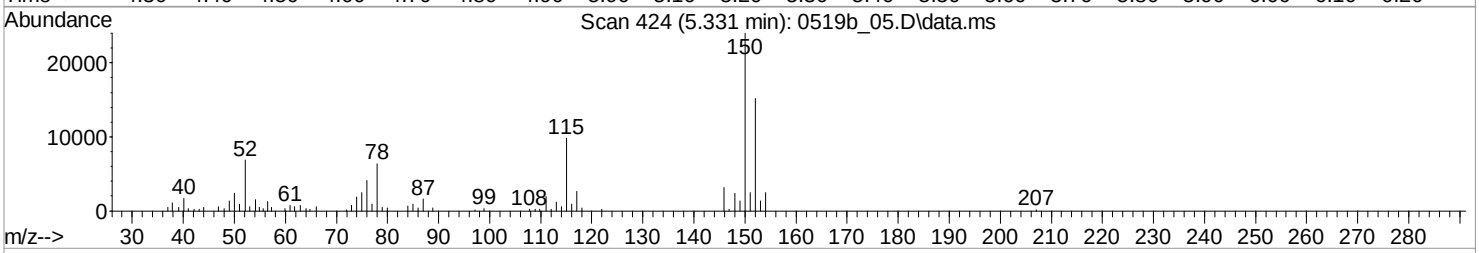
Ion	Exp%	Act%
41.00	100	100
55.00	39.60	48.33#
67.00	2.70	2.07#
0.00	0.00	0.00

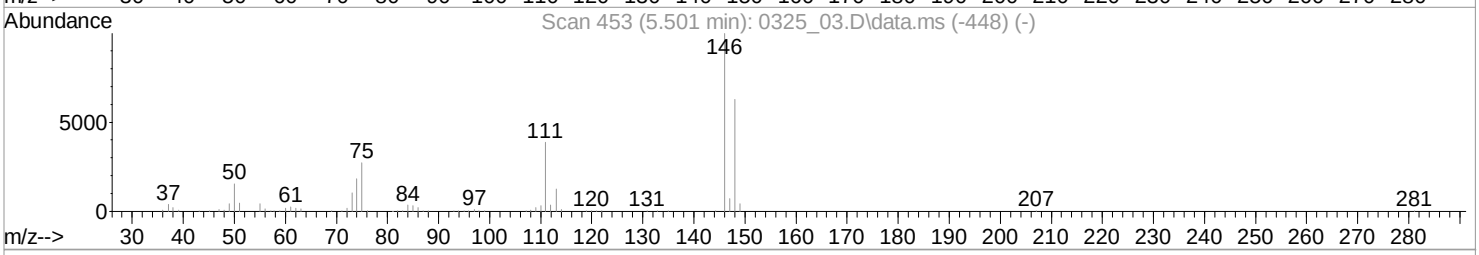
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
```







TIC: 0519b_05.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.331min (-0.012) 191.3001274 ppb m

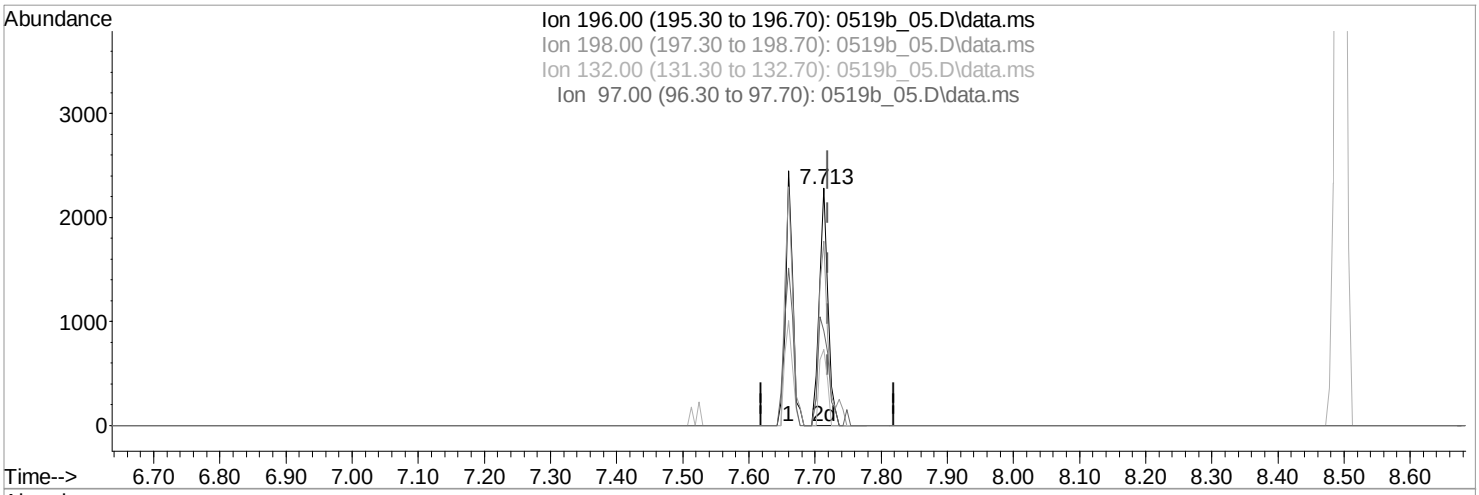
response 3602

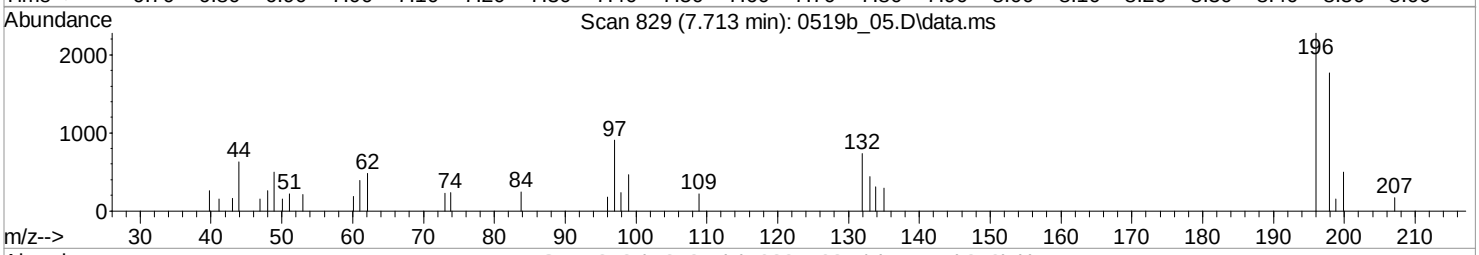
Ion	Exp%	Act%
146.00	100	100
148.00	62.30	74.15
111.00	42.90	62.37
75.00	35.30	78.55#

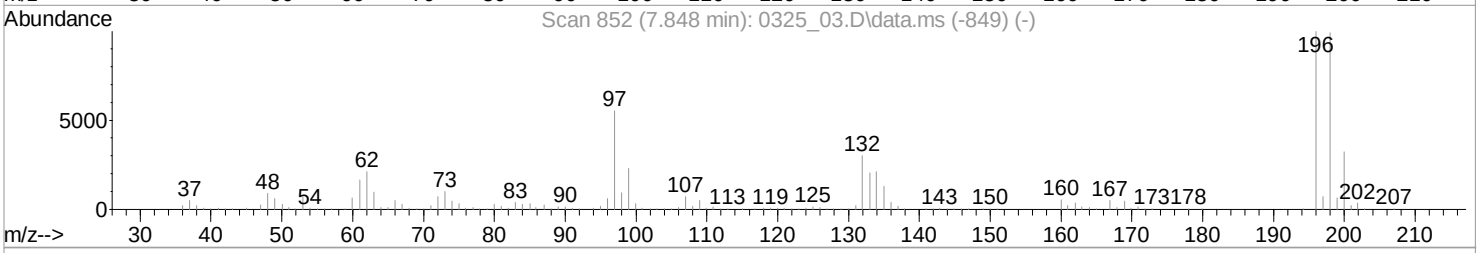
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On : 19 May 2015 6:31 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_05.D\data.ms

(43) 2,4,5-Trichlorophenol (MT)

7.713min (-0.006) 187.7692786 ppb m

response 2101

Ion	Exp%	Act%
196.00	100	100
198.00	96.60	77.55
132.00	31.40	32.18
97.00	66.90	39.76#

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 05.D
Acq On    : 19 May 2015   6:31 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 19 18:54:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Tue May 19 18:52:30 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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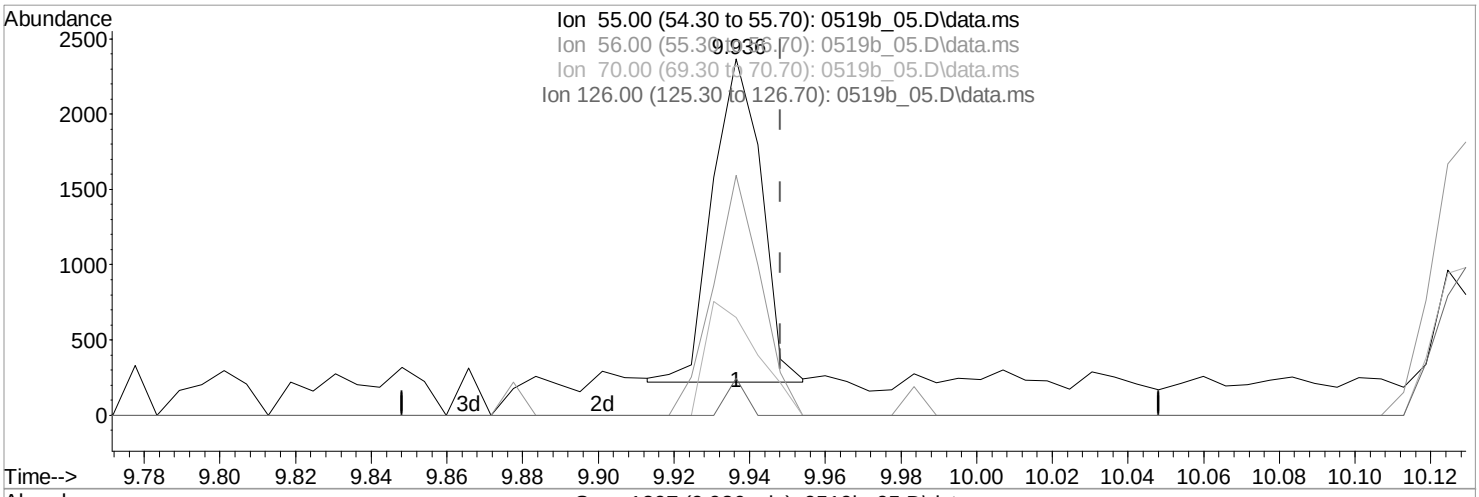
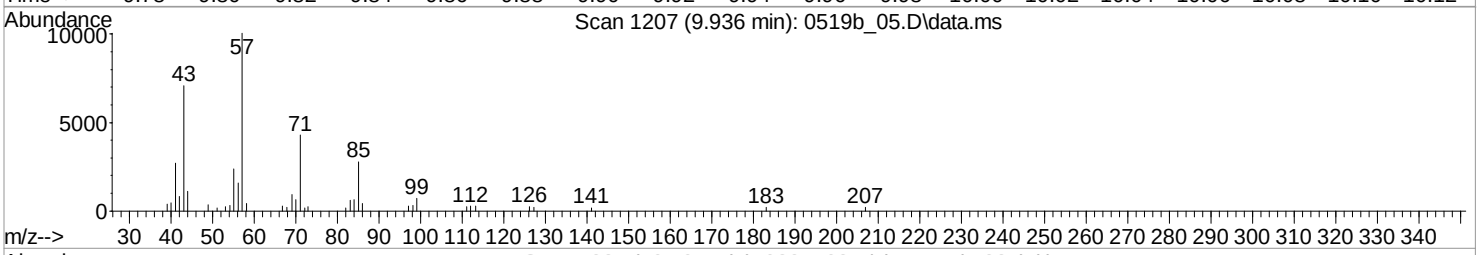
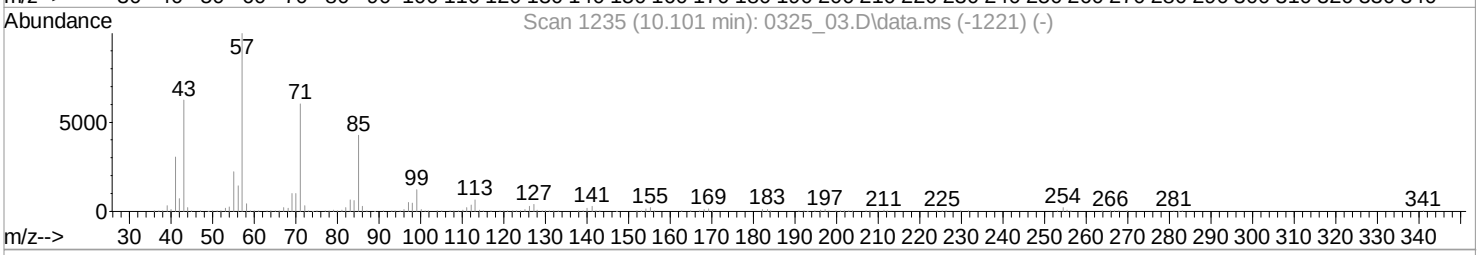






TIC: 0519b_05.D\data.ms

(70) n-octadecane (T)

9.936min (-0.012) 177.9890108 ppb m

response 1910

Ion	Exp%	Act%
55.00	100	100
56.00	63.00	73.77
70.00	31.50	37.33
126.00	7.80	4.50#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:39:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	92224	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.595	136	372689	8000.0000000 ppb	-0.02
40) Acenaphthene-d10	8.495	164	252065	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.130	188	438403	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.036	240	448653	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	428066	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	13202	976.7277027 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 4883.64%#		
7) Phenol-d5	4.960	99	18086	1006.3012252 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 5031.51%#		
23) Nitrobenzene-d5	5.854	82	18648	970.8076825 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 9708.08%#		
44) 2-Fluorobiphenyl	7.742	172	40461	1020.8430701 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 10208.43%#		
67) 2,4,6-Tribromophenol	9.360	330	5229	1065.7263695 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 5328.63%#		
81) p-Terphenyl-d14	11.854	244	57729	1050.6041816 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 10506.04%#		
Target Compounds					Qvalue
2) Pyridine	3.207	79	22145	1029.4616499 ppb	98
3) N-Nitrosodimethylamine	3.184	42	12640	953.8469812 ppb	82
5) Aniline	5.007	66	10105	1031.5093507 ppb	93
6) bis(2-Chloroethyl)ether	5.048	63	15532	992.8472335 ppb	93
8) Phenol	4.972	94	20064	997.2707925 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	16674	1033.2136566 ppb	98
11) n-Decane	5.125	41	12295	969.0120743 ppb #	98
12) 1,3-Dichlorobenzene	5.260	146	18731	1020.0687407 ppb	95
13) 1,4-Dichlorobenzene	5.331	146	19067	1042.5595585 ppb	94
14) Benzyl Alcohol	5.431	79	13186	968.6287692 ppb	98
15) 1,2-Dichlorobenzene	5.478	146	18119	1002.2269469 ppb	96
16) bis(2-Chloroisopropyl)...	5.554	121	5560	1017.2375368 ppb #	77
17) 2-Methylphenol	5.537	108	14316	972.4719691 ppb	97
18) Hexachloroethane	5.813	117	8633	946.6354673 ppb	98
19) N-Nitrosodi-n-propylamine	5.684	70	8868	959.7781614 ppb	95
20) 3&4-Methyl phenol	5.684	107	15762	974.7103215 ppb	99
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.872	77	18356	956.5932152 ppb	96
25) Isophorone	6.101	82	33555	969.1226832 ppb	94
26) 2-Nitrophenol	6.195	139	7562	955.6811832 ppb	95
27) 2,4-Dimethylphenol	6.225	107	17857	1056.2836564 ppb	95
28) bis(2-Chlorethoxy)methane	6.319	93	21476	998.2170929 ppb	99
29) 2,4-Dichlorophenol	6.448	162	13961	1009.3080137 ppb	98
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.531	180	16734	1040.2710885 ppb	97
32) Naphthalene	6.619	128	53422	978.9067013 ppb	99
33) 4-Chloroaniline	6.672	65	7318	1044.6689231 ppb	95
34) Hexachloro-1,3-butadiene	6.737	225	10548	968.8347406 ppb	93
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:39:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	15310	1014.4663425 ppb		99
37) 2-Methylnaphthalene	7.354	142	36674	977.6240367 ppb		98
38) 1-Methylnaphthalene	7.466	142	33601	1040.1423613 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	7564	945.0086332 ppb		97
42) 2,4,6-Trichlorophenol	7.660	196	10441	1022.0952836 ppb		93
43) 2,4,5-Trichlorophenol	7.707	196	10949	999.0236263 ppb		90
45) Biphenyl	7.854	154	45133	1013.0438094 ppb		98
46) 2-Chloronaphthalene	7.889	162	36627	973.8777618 ppb		99
47) 2-Nitroaniline	7.995	138	9653	1058.3509390 ppb		98
48) Acenaphthylene	8.342	152	56081	1073.0384380 ppb		98
49) Dimethyl phthalate	8.172	163	42033	1044.9535093 ppb		99
50) 2,6-Dinitrotoluene	8.248	165	8284	987.6087972 ppb		88
51) 3-Nitroaniline	8.442	138	8170	987.2906287 ppb		90
52) Acenaphthene	8.531	153	38553	1029.4692668 ppb		98
53) 2,4-Dinitrophenol	8.554	184	1240	337.0105403 ppb	#	75
54) Dibenzofuran	8.719	168	54305	1032.6829792 ppb		100
55) 2,4-Dinitrotoluene	8.684	165	10490	966.5555179 ppb		94
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.636	139	5607	1015.2259711 ppb		90
58) Fluorene	9.095	166	44337	1043.1569984 ppb		98
59) 4-Chlorophenyl-phenyle...	9.078	204	20125	1020.1160616 ppb		95
60) Diethyl phthalate	8.936	149	43302	993.3556441 ppb		98
61) 4-Nitroaniline	9.107	138	8995	1246.2359285 ppb		96
62) Azobenzene	9.254	77	48113	1042.2693479 ppb		99
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	3431	805.9123113 ppb		93
66) N-Nitrosodiphenylamine	9.207	169	36305	1052.4135142 ppb		98
68) 4-Bromophenyl-phenylether	9.619	248	11226	1008.2401864 ppb		92
69) Hexachlorobenzene	9.695	284	14005	1031.8853626 ppb		97
70) n-octadecane	9.936	55	10699m	1036.5884281 ppb		
71) Pentachlorophenol	9.913	266	3752	870.0046537 ppb		92
72) Phenanthrene	10.154	178	67578	969.0247435 ppb		98
73) Anthracene	10.213	178	64879	1042.1387385 ppb		98
74) Carbazole	10.383	167	61897	1093.3197684 ppb		99
75) Di-n-butyl phthalate	10.713	149	79839	984.8026267 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	72776	1004.6986378 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.719	202	76878	996.1221215 ppb		99
82) Benzylbutyl phthalate	12.360	149	38620	946.2431182 ppb		99
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.024	228	71494	849.9301389 ppb		98
85) Chrysene	13.066	228	68369	1011.4470318 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.948	149	57166	977.7131468 ppb		98
87) Di-n-octyl phthalate	13.671	149	98853	939.6679337 ppb		98
89) Benzo(b)fluoranthene	14.336	252	68502	931.1263636 ppb		96
90) Benzo(k)fluoranthene	14.371	252	62658	920.1720157 ppb		96
91) Benzo(a)pyrene	14.818	252	61127	921.6232685 ppb		96
92) Indeno(1,2,3-cd)pyrene	16.795	276	64867	968.7002840 ppb		97
93) Dibenz(a,h)anthracene	16.807	278	53891	957.6687022 ppb		81
94) Benzo(g,h,i)perylene	17.377	276	55722	983.0363511 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:39:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

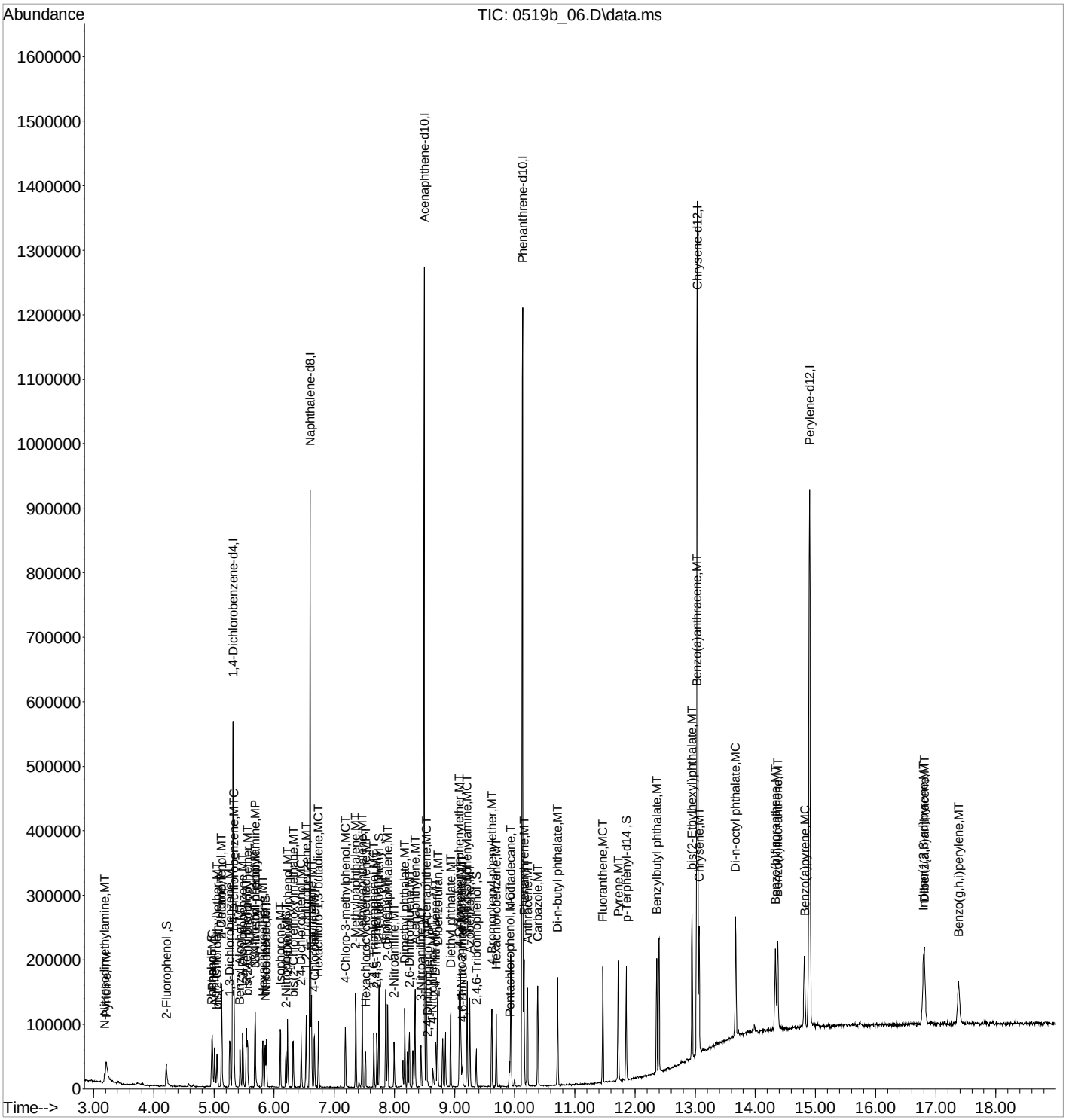
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On : 19 May 2015 6:54 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:39:08 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 06.D
Acq On    : 19 May 2015   6:54 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 11:25:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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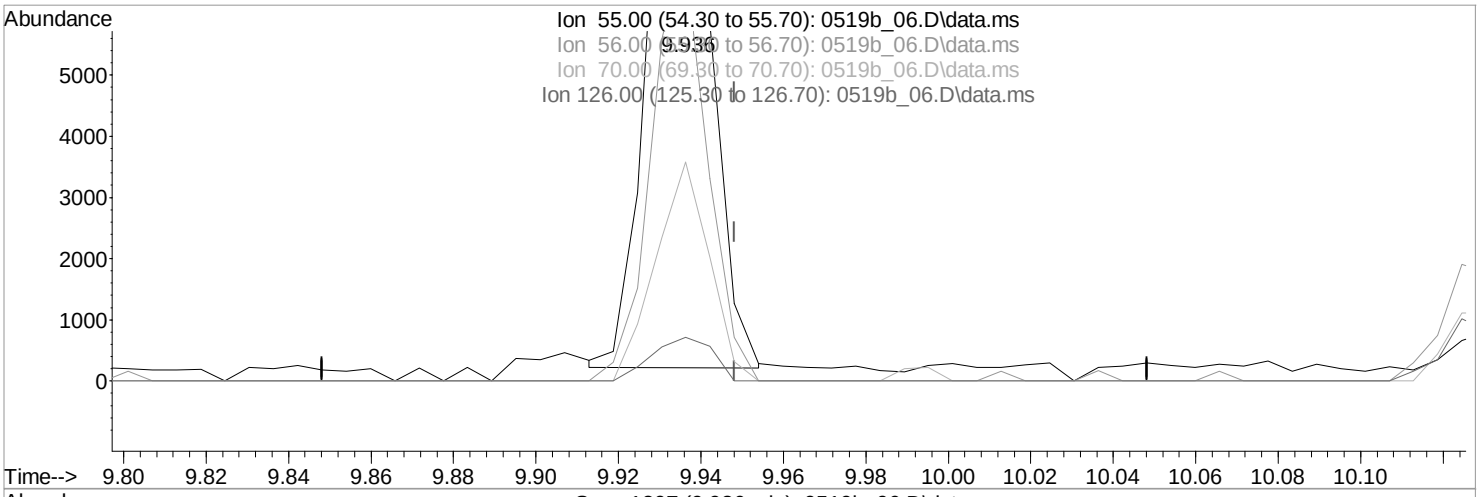
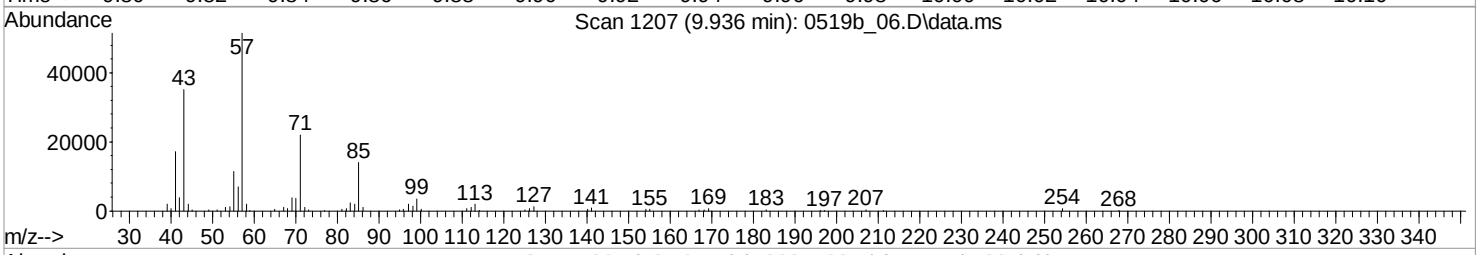
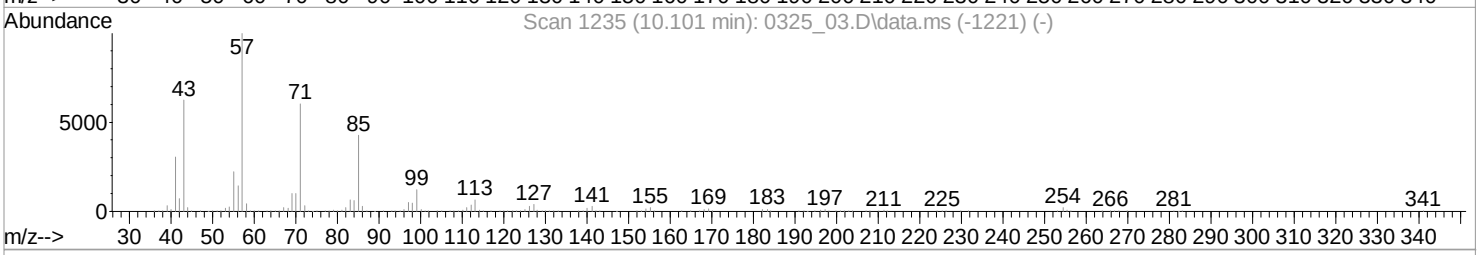






TIC: 0519b_06.D\data.ms

(70) n-octadecane (T)

9.936min (-0.012) 1036.5884281 ppb m

response 10699

Ion	Exp%	Act%
55.00	100	100
56.00	63.00	60.46
70.00	31.50	30.39
126.00	7.80	6.83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 12:06:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	89297	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.596	136	364295	8000.0000000 ppb	-0.02
40) Acenaphthene-d10	8.495	164	248673	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.131	188	435032	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.036	240	450977	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	419449	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	28017	2140.7329488 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 10703.66%#		
7) Phenol-d5	4.960	99	39176	2251.1925978 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 11255.96%#		
23) Nitrobenzene-d5	5.854	82	39913	2125.7328314 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 21257.33%#		
44) 2-Fluorobiphenyl	7.743	172	85033	2174.6721224 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 21746.72%#		
67) 2,4,6-Tribromophenol	9.360	330	11842	2432.2288757 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 12161.14%#		
81) p-Terphenyl-d14	11.854	244	117616	2129.4511352 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 21294.51%#		
Target Compounds					Qvalue
2) Pyridine	3.213	79	48009	2304.9644637 ppb	94
3) N-Nitrosodimethylamine	3.184	42	24910	1941.3884846 ppb	93
5) Aniline	5.013	66	21113	2225.8397051 ppb	96
6) bis(2-Chloroethyl)ether	5.049	63	31993	2112.1127599 ppb	98
8) Phenol	4.972	94	43484	2232.1951177 ppb	96
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	34186	2187.7904141 ppb	98
11) n-Decane	5.125	41	24771	2016.2820365 ppb	97
12) 1,3-Dichlorobenzene	5.266	146	38764	2180.2392122 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	38120	2152.6750927 ppb	96
14) Benzyl Alcohol	5.437	79	28755	2181.5478865 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	37490	2141.6789938 ppb	97
16) bis(2-Chloroisopropyl)...	5.554	121	12165	2298.6179055 ppb #	88
17) 2-Methylphenol	5.537	108	29830	2092.7422469 ppb	95
18) Hexachloroethane	5.813	117	18567	2102.6638812 ppb	96
19) N-Nitrosodi-n-propylamine	5.684	70	18648	2084.4166138 ppb	96
20) 3&4-Methyl phenol	5.684	107	36088	2304.8047590 ppb	95
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.872	77	40534	2161.0363621 ppb	99
25) Isophorone	6.101	82	71435	2110.6971745 ppb	98
26) 2-Nitrophenol	6.196	139	17952	2321.0396834 ppb	90
27) 2,4-Dimethylphenol	6.225	107	37648	2278.2812472 ppb	99
28) bis(2-Chlorethoxy)methane	6.319	93	46752	2223.1315663 ppb	96
29) 2,4-Dichlorophenol	6.449	162	30870	2283.1644202 ppb	96
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.531	180	33909	2156.5280452 ppb	98
32) Naphthalene	6.619	128	111750	2094.8940076 ppb	100
33) 4-Chloroaniline	6.666	65	16269	2375.9674879 ppb	97
34) Hexachloro-1,3-butadiene	6.737	225	21928	2060.4969164 ppb	98
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 12:06:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	33006	2237.4261599 ppb		95
37) 2-Methylnaphthalene	7.354	142	78267	2134.4483098 ppb		99
38) 1-Methylnaphthalene	7.466	142	69296	2194.5329798 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	18293	2316.6109418 ppb		97
42) 2,4,6-Trichlorophenol	7.660	196	21877	2170.8057752 ppb		97
43) 2,4,5-Trichlorophenol	7.707	196	23421	2166.1605911 ppb		95
45) Biphenyl	7.854	154	93875	2135.8359286 ppb		100
46) 2-Chloronaphthalene	7.890	162	74499	2007.8786266 ppb		97
47) 2-Nitroaniline	7.995	138	20458	2273.6021986 ppb		94
48) Acenaphthylene	8.342	152	120527	2337.5870365 ppb		98
49) Dimethyl phthalate	8.172	163	87701	2210.0140741 ppb		96
50) 2,6-Dinitrotoluene	8.248	165	19826	2395.8734473 ppb		93
51) 3-Nitroaniline	8.442	138	19546	2394.2239212 ppb	#	87
52) Acenaphthene	8.531	153	80517	2179.3486094 ppb		98
53) 2,4-Dinitrophenol	8.548	184	3996	1100.8577176 ppb		91
54) Dibenzofuran	8.719	168	113416	2186.1776010 ppb		98
55) 2,4-Dinitrotoluene	8.690	165	24398	2278.7120886 ppb		98
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.637	139	13609	2497.7115961 ppb		91
58) Fluorene	9.095	166	93560	2231.2976000 ppb		99
59) 4-Chlorophenyl-phenyle...	9.078	204	43111	2215.0610801 ppb		95
60) Diethyl phthalate	8.937	149	92271	2145.5861070 ppb		98
61) 4-Nitroaniline	9.107	138	19570	2748.3613889 ppb		94
62) Azobenzene	9.254	77	100753	2212.3784926 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.131	198	8764	2074.5397204 ppb		88
66) N-Nitrosodiphenylamine	9.207	169	75810	2214.6177954 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	24681	2233.8501219 ppb	#	87
69) Hexachlorobenzene	9.695	284	28209	2094.5384785 ppb		97
70) n-octadecane	9.937	55	23699	2313.9048866 ppb		98
71) Pentachlorophenol	9.913	266	10339	2415.9591946 ppb		96
72) Phenanthrene	10.154	178	138631	2003.2825205 ppb		99
73) Anthracene	10.213	178	135019	2185.5894876 ppb		99
74) Carbazole	10.384	167	129318	2301.9129342 ppb		99
75) Di-n-butyl phthalate	10.713	149	172067	2138.8681327 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.466	202	156079	2171.4229272 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.719	202	166721	2149.1018485 ppb		98
82) Benzylbutyl phthalate	12.360	149	83483	2034.9076038 ppb		100
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.025	228	150375	1778.4655497 ppb		98
85) Chrysene	13.066	228	146329	2153.6270828 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.948	149	127183	2164.0081782 ppb		99
87) Di-n-octyl phthalate	13.672	149	215555	2038.4442434 ppb		99
89) Benzo(b)fluoranthene	14.336	252	145580	2019.4758222 ppb		98
90) Benzo(k)fluoranthene	14.372	252	131952	1977.6072308 ppb		98
91) Benzo(a)pyrene	14.819	252	134519	2069.8341610 ppb		96
92) Indeno(1,2,3-cd)pyrene	16.801	276	140962	2148.3213192 ppb		98
93) Dibenz(a,h)anthracene	16.813	278	114908	2083.9192615 ppb		92
94) Benzo(g,h,i)perylene	17.383	276	118781	2138.5599540 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 12:06:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

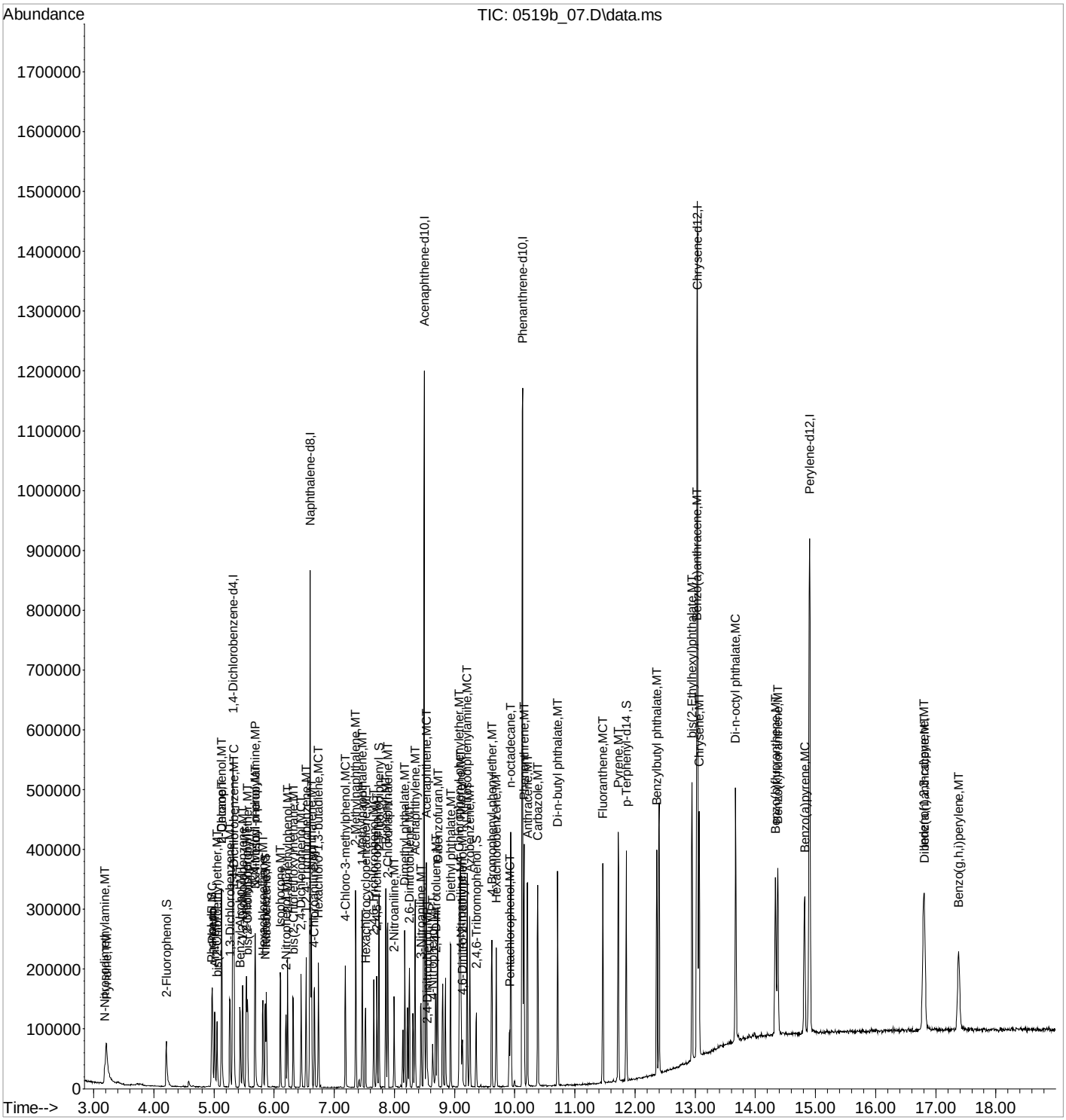
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 07.D
Acq On : 19 May 2015 7:18 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 12:06:13 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 08.D
Acq On : 19 May 2015 7:41 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:52:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	93714	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.595	136	376504	8000.0000000 ppb	-0.02
40) Acenaphthene-d10	8.495	164	257601	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.130	188	445850	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.036	240	475598	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	442151	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	69927	5091.1765001 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 25455.88%#		
7) Phenol-d5	4.960	99	95090	5206.6669908 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 26033.33%#		
23) Nitrobenzene-d5	5.854	82	98592	5080.6537762 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 50806.54%#		
44) 2-Fluorobiphenyl	7.742	172	205441	5071.9445305 ppb	-0.01
Spiked Amount 10.000	Range 26 - 122		Recovery = 50719.45%#		
67) 2,4,6-Tribromophenol	9.360	330	30366	6085.5439605 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 30427.72%#		
81) p-Terphenyl-d14	11.854	244	290726	4991.1373346 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery = 49911.37%#		
Target Compounds					Qvalue
2) Pyridine	3.207	79	112285	5136.8361224 ppb	96
3) N-Nitrosodimethylamine	3.184	42	60890	4521.8597609 ppb	97
5) Aniline	5.013	66	52553	5279.2696339 ppb	98
6) bis(2-Chloroethyl)ether	5.048	63	77275	4861.0886518 ppb	99
8) Phenol	4.972	94	107288	5247.9079616 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	83380	5084.5405004 ppb	97
11) n-Decane	5.125	41	57097	4428.4671255 ppb	97
12) 1,3-Dichlorobenzene	5.260	146	93470	5009.3363990 ppb	99
13) 1,4-Dichlorobenzene	5.331	146	94946	5108.9853846 ppb	97
14) Benzyl Alcohol	5.431	79	71286	5153.3307627 ppb	100
15) 1,2-Dichlorobenzene	5.478	146	92114	5014.1459569 ppb	98
16) bis(2-Chloroisopropyl)...	5.554	121	27287	4912.9557936 ppb #	84
17) 2-Methylphenol	5.537	108	71705	4793.4071773 ppb	98
18) Hexachloroethane	5.813	117	45718	4933.4159535 ppb	98
19) N-Nitrosodi-n-propylamine	5.684	70	46200	4920.6971248 ppb	99
20) 3&4-Methyl phenol	5.684	107	84921	5167.9561610 ppb	95
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.872	77	101133	5216.9793494 ppb	96
25) Isophorone	6.107	82	176183	5036.8903481 ppb	98
26) 2-Nitrophenol	6.195	139	43938	5496.5935856 ppb	96
27) 2,4-Dimethylphenol	6.225	107	92320	5405.6115943 ppb	97
28) bis(2-Chlorethoxy)methane	6.319	93	110925	5103.6164010 ppb	99
29) 2,4-Dichlorophenol	6.448	162	74309	5317.7215331 ppb	97
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.531	180	82296	5064.1023075 ppb	98
32) Naphthalene	6.619	128	266287	4830.0108194 ppb	99
33) 4-Chloroaniline	6.666	65	40348	5701.4492457 ppb	99
34) Hexachloro-1,3-butadiene	6.736	225	52514	4774.5413864 ppb	97
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 08.D
Acq On : 19 May 2015 7:41 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:52:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	82670	5422.3477899 ppb		99
37) 2-Methylnaphthalene	7.354	142	189255	4993.8780478 ppb		99
38) 1-Methylnaphthalene	7.466	142	169250	5186.1639125 ppb		100
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	49893	6099.4247303 ppb		99
42) 2,4,6-Trichlorophenol	7.660	196	54358	5206.8822910 ppb		97
43) 2,4,5-Trichlorophenol	7.707	196	58659	5237.2217220 ppb		96
45) Biphenyl	7.860	154	223462	4907.9791419 ppb		99
46) 2-Chloronaphthalene	7.889	162	182165	4739.5056004 ppb		99
47) 2-Nitroaniline	7.995	138	56786	6092.1932837 ppb		98
48) Acenaphthylene	8.342	152	297875	5576.9735890 ppb		100
49) Dimethyl phthalate	8.172	163	214829	5225.9408523 ppb		96
50) 2,6-Dinitrotoluene	8.248	165	49030	5719.6803030 ppb		92
51) 3-Nitroaniline	8.442	138	50180	5933.6047995 ppb		89
52) Acenaphthene	8.530	153	190205	4969.8369312 ppb		98
53) 2,4-Dinitrophenol	8.548	184	13602	3617.3420050 ppb	#	81
54) Dibenzofuran	8.719	168	270546	5034.2330952 ppb		100
55) 2,4-Dinitrotoluene	8.689	165	64368	5803.4511565 ppb		95
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.630	139	35678	6321.1728535 ppb		95
58) Fluorene	9.095	166	223699	5150.0615205 ppb		99
59) 4-Chlorophenyl-phenyle...	9.078	204	102057	5061.9924910 ppb		94
60) Diethyl phthalate	8.936	149	228652	5132.5928500 ppb		99
61) 4-Nitroaniline	9.107	138	51740	7014.3999730 ppb		97
62) Azobenzene	9.254	77	249944	5298.1621573 ppb		100
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.130	198	27374	6322.5181020 ppb		91
66) N-Nitrosodiphenylamine	9.207	169	186255	5308.9992230 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	57824	5106.6000239 ppb		91
69) Hexachlorobenzene	9.695	284	69213	5014.4206021 ppb		95
70) n-octadecane	9.936	55	56752	5406.6603319 ppb		99
71) Pentachlorophenol	9.913	266	30142	6872.5128079 ppb		97
72) Phenanthrene	10.154	178	340613	4802.5898425 ppb		98
73) Anthracene	10.213	178	339233	5358.0187855 ppb		99
74) Carbazole	10.383	167	324186	5630.6249793 ppb		99
75) Di-n-butyl phthalate	10.713	149	433983	5263.7053881 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.466	202	389223	5283.6114642 ppb		100
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.724	202	413815	5058.0986318 ppb		99
82) Benzylbutyl phthalate	12.360	149	210462	4864.4608686 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.024	228	374875	4204.0770700 ppb		98
85) Chrysene	13.065	228	352623	4921.1330719 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.948	149	311762	5029.9930533 ppb		98
87) Di-n-octyl phthalate	13.671	149	539453	4837.3634848 ppb		99
89) Benzo(b)fluoranthene	14.330	252	364157	4792.1914209 ppb		98
90) Benzo(k)fluoranthene	14.371	252	330158	4694.1227373 ppb		99
91) Benzo(a)pyrene	14.818	252	331080	4832.7398624 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.801	276	346317	5007.0225550 ppb		98
93) Dibenz(a,h)anthracene	16.812	278	284544	4895.4047760 ppb		98
94) Benzo(g,h,i)perylene	17.383	276	292733	4999.8236690 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 08.D
Acq On : 19 May 2015 7:41 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:52:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

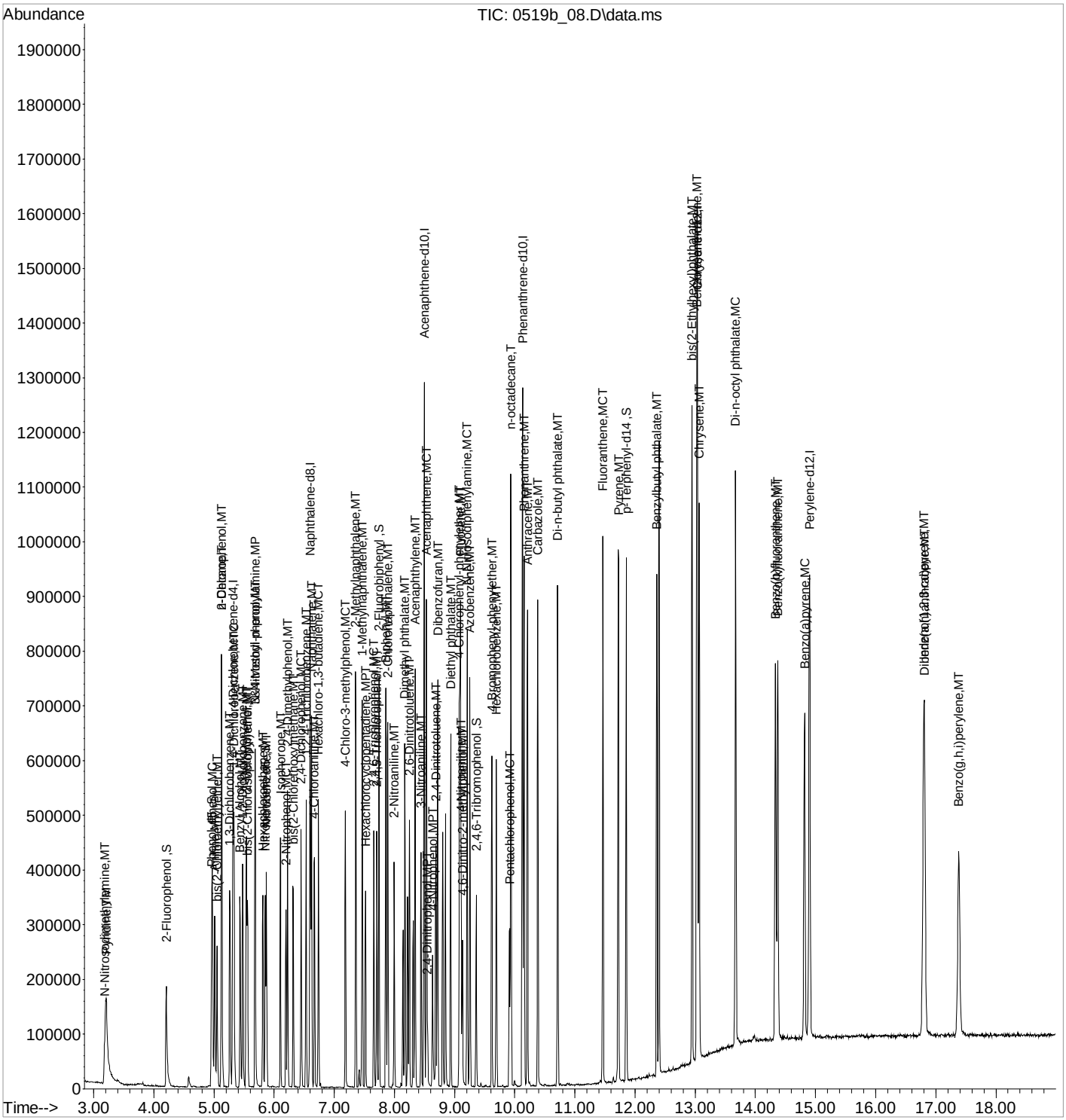
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 08.D
Acq On : 19 May 2015 7:41 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:52:23 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 09.D
Acq On : 19 May 2015 8:04 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:53:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	94150	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.601	136	387299	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.495	164	259362	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.131	188	460638	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.042	240	491523	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	460271	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	287055	20802.8349615 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 104014.17%#		
7) Phenol-d5	4.960	99	392676	21401.4630564 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 107007.32%#		
23) Nitrobenzene-d5	5.854	82	405377	20307.6770047 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 203076.77%#		
44) 2-Fluorobiphenyl	7.748	172	838178	20552.5082192 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 205525.08%#		
67) 2,4,6-Tribromophenol	9.360	330	128971	25016.8654411 ppb	-0.02
Spiked Amount 20.000	Range 10 - 148		Recovery = 125084.33%#		
81) p-Terphenyl-d14	11.860	244	1217131	20218.5099346 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 202185.10%#		
Target Compounds					Qvalue
2) Pyridine	3.208	79	455326	20733.8794227 ppb	98
3) N-Nitrosodimethylamine	3.178	42	235464	17405.2306768 ppb	96
5) Aniline	5.013	66	214206	21418.6509437 ppb	98
6) bis(2-Chloroethyl)ether	5.054	63	304602	19072.6671268 ppb	95
8) Phenol	4.972	94	428922	20883.2233583 ppb	98
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	339352	20597.9682434 ppb	97
11) n-Decane	5.125	41	209430	16168.2560631 ppb	96
12) 1,3-Dichlorobenzene	5.266	146	377620	20144.0640483 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	380803	20395.8824081 ppb	98
14) Benzyl Alcohol	5.437	79	306332	22042.4715672 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	364430	19745.5666730 ppb	99
16) bis(2-Chloroisopropyl)...	5.560	121	109413	19608.3090183 ppb	97
17) 2-Methylphenol	5.537	108	292221	19444.2168218 ppb	98
18) Hexachloroethane	5.813	117	185600	19935.2934729 ppb	99
19) N-Nitrosodi-n-propylamine	5.684	70	191446	20296.2174250 ppb	97
20) 3&4-Methyl phenol	5.690	107	342578	20751.3971326 ppb	99
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.872	77	397284	19922.8066921 ppb	95
25) Isophorone	6.107	82	720273	20017.9154139 ppb	100
26) 2-Nitrophenol	6.196	139	188489	22922.5311424 ppb	96
27) 2,4-Dimethylphenol	6.225	107	367525	20919.8779642 ppb	99
28) bis(2-Chlorethoxy)methane	6.319	93	441778	19759.4972598 ppb	100
29) 2,4-Dichlorophenol	6.449	162	308276	21446.0398477 ppb	99
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.531	180	325323	19460.8466981 ppb	98
32) Naphthalene	6.625	128	1070837	18881.8579579 ppb	99
33) 4-Chloroaniline	6.672	65	163773	22497.2157800 ppb	99
34) Hexachloro-1,3-butadiene	6.737	225	216666	19150.0779857 ppb	99
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 09.D
Acq On : 19 May 2015 8:04 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:53:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	339233	21630.2104119 ppb		99
37) 2-Methylnaphthalene	7.360	142	759006	19469.6882819 ppb		99
38) 1-Methylnaphthalene	7.466	142	676026	20137.4362993 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.519	237	238891	29006.1604223 ppb		99
42) 2,4,6-Trichlorophenol	7.660	196	232985	22165.8020269 ppb		97
43) 2,4,5-Trichlorophenol	7.707	196	248151	22005.1094649 ppb		98
45) Biphenyl	7.860	154	910452	19860.8247560 ppb		99
46) 2-Chloronaphthalene	7.890	162	737434	19056.0313245 ppb		97
47) 2-Nitroaniline	7.995	138	251883	26839.3782413 ppb		100
48) Acenaphthylene	8.348	152	1204080	22390.3598433 ppb		100
49) Dimethyl phthalate	8.178	163	859822	20774.0577408 ppb		99
50) 2,6-Dinitrotoluene	8.254	165	201132	23304.0944587 ppb		95
51) 3-Nitroaniline	8.448	138	196082	23028.5655426 ppb	#	88
52) Acenaphthene	8.531	153	781262	20274.8714356 ppb		99
53) 2,4-Dinitrophenol	8.554	184	88789	23452.3930339 ppb	#	86
54) Dibenzofuran	8.719	168	1093396	20207.4206455 ppb		99
55) 2,4-Dinitrotoluene	8.690	165	271368	24300.5526439 ppb		97
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.637	139	169019	29742.2548912 ppb		95
58) Fluorene	9.095	166	924841	21147.3837893 ppb		98
59) 4-Chlorophenyl-phenyle...	9.084	204	412009	20296.7545467 ppb		97
60) Diethyl phthalate	8.942	149	921818	20551.7208556 ppb		98
61) 4-Nitroaniline	9.113	138	159933	21534.9260117 ppb		97
62) Azobenzene	9.254	77	1007976	21221.3945708 ppb		99
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.137	198	141343	31597.6753447 ppb		98
66) N-Nitrosodiphenylamine	9.213	169	744337	20535.4081184 ppb		99
68) 4-Bromophenyl-phenylether	9.619	248	239592	20479.7680661 ppb		95
69) Hexachlorobenzene	9.695	284	282070	19779.6677762 ppb		97
70) n-octadecane	9.937	55	222793	20543.6906011 ppb		99
71) Pentachlorophenol	9.913	266	155126	34233.9565864 ppb		96
72) Phenanthrene	10.160	178	1388045	18942.9160096 ppb		99
73) Anthracene	10.213	178	1410939	21569.6642988 ppb		99
74) Carbazole	10.384	167	1204284	20245.1161271 ppb		100
75) Di-n-butyl phthalate	10.713	149	1840411	21605.4186155 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.466	202	1631309	21433.7232761 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.725	202	1743636	20622.1084665 ppb		99
82) Benzylbutyl phthalate	12.360	149	920586	20588.3509139 ppb		99
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	1580243	17147.6353829 ppb		99
85) Chrysene	13.072	228	1474380	19909.4874140 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.948	149	1333471	20817.2786988 ppb		100
87) Di-n-octyl phthalate	13.677	149	2305014	19999.7631162 ppb		100
89) Benzo(b)fluoranthene	14.342	252	1500654m	18970.6872383 ppb		
90) Benzo(k)fluoranthene	14.383	252	1407900	19229.2091854 ppb		98
91) Benzo(a)pyrene	14.824	252	1393798	19544.1734435 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.818	276	1457863	20247.8749540 ppb		98
93) Dibenz(a,h)anthracene	16.824	278	1185844	19598.5406724 ppb		99
94) Benzo(g,h,i)perylene	17.407	276	1239379	20334.9981382 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 09.D
Acq On : 19 May 2015 8:04 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:53:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

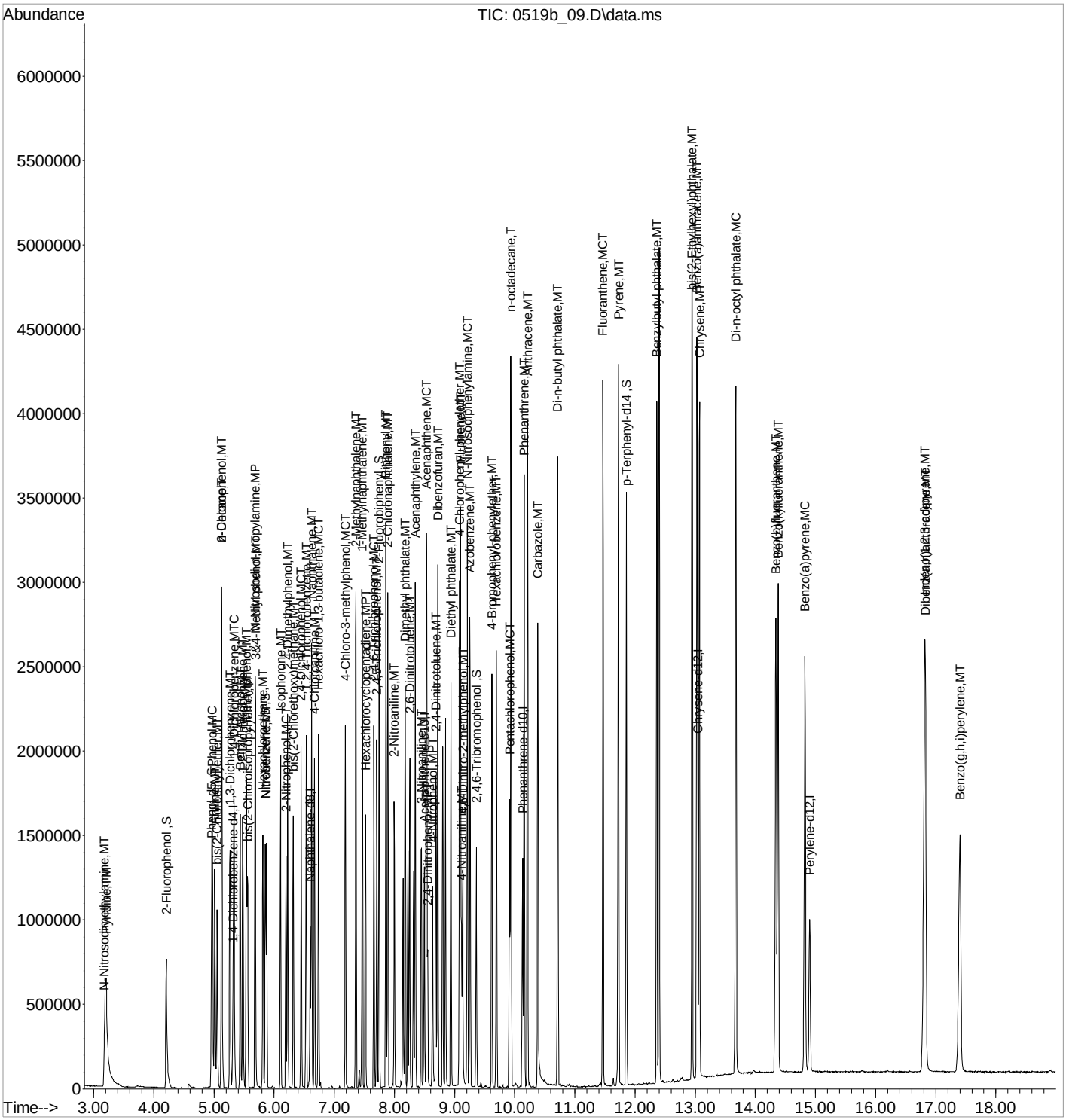
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 09.D
Acq On : 19 May 2015 8:04 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:53:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 09.D
Acq On    : 19 May 2015   8:04 pm
Operator  : 377
Sample    : STD SVMS 20K PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 9   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 11:25:34 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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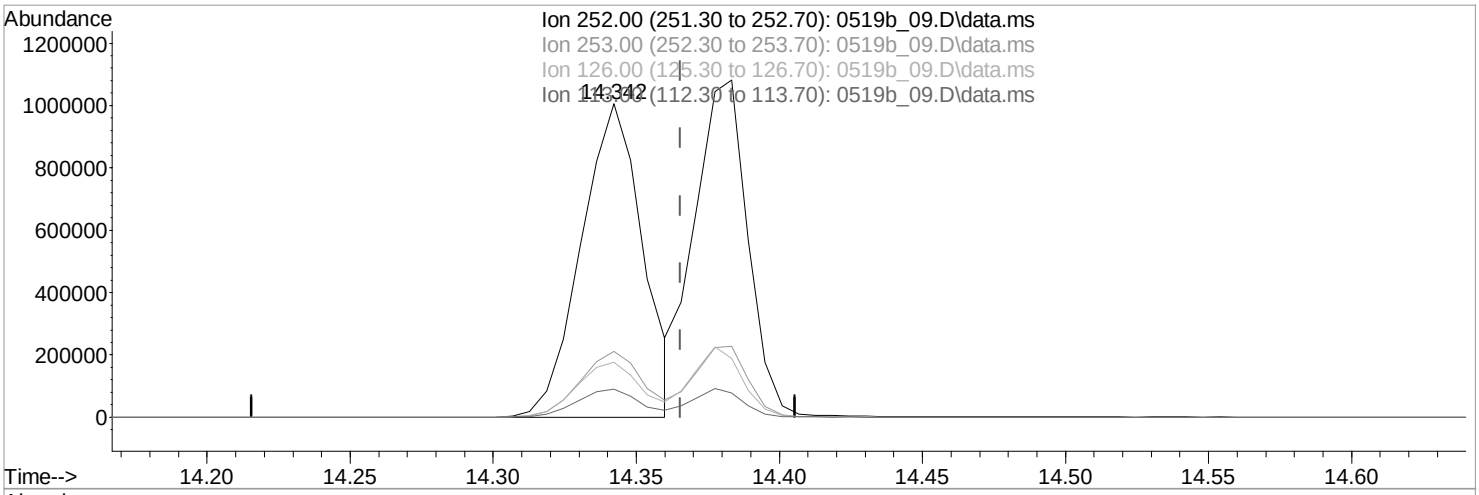
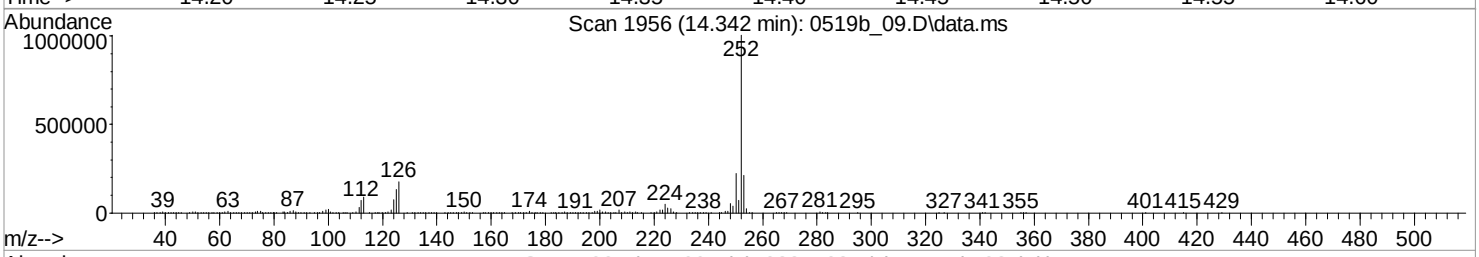
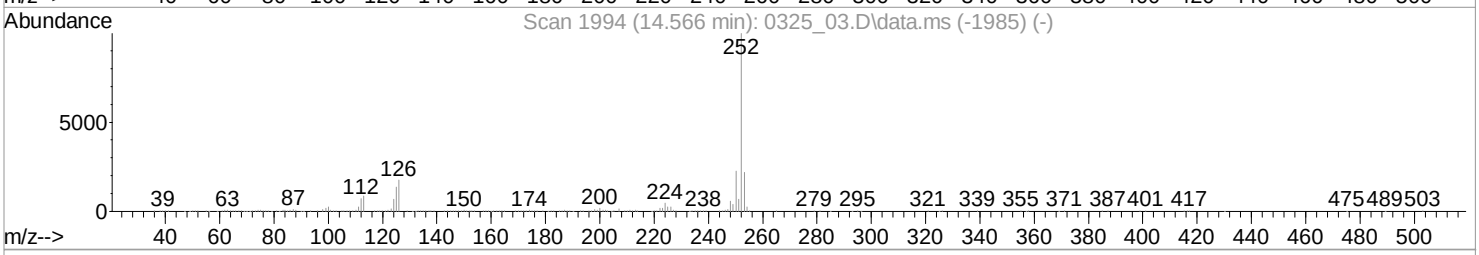






TIC: 0519b_09.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.342min (-0.023) 18970.6872383 ppb m

response 1500654

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.02
126.00	16.30	17.42
113.00	8.60	8.91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 10.D
Acq On : 19 May 2015 8:28 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:54:01 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	94409	8000.0000000 ppb	-0.01
22) Naphthalene-d8	6.601	136	387926	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.495	164	263126	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.131	188	469052	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.042	240	500828	8000.0000000 ppb	-0.02
88) Perylene-d12	14.907	264	467391	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	434371	31392.4460957 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 156962.23%#		
7) Phenol-d5	4.960	99	602098	32725.2683764 ppb	-0.01
Spiked Amount 20.000	Range 10 - 67		Recovery = 163626.34%#		
23) Nitrobenzene-d5	5.854	82	623381	31178.2827707 ppb	-0.01
Spiked Amount 10.000	Range 12 - 120		Recovery = 311782.83%#		
44) 2-Fluorobiphenyl	7.748	172	1266483	30610.5068277 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 306105.07%#		
67) 2,4,6-Tribromophenol	9.366	330	201211	38329.3376652 ppb	-0.01
Spiked Amount 20.000	Range 10 - 148		Recovery = 191646.69%#		
81) p-Terphenyl-d14	11.860	244	1865444	30412.3010992 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 304123.01%#		
Target Compounds					Qvalue
2) Pyridine	3.208	79	686825	31189.6958829 ppb	97
3) N-Nitrosodimethylamine	3.184	42	356789	26301.0840581 ppb	94
5) Aniline	5.013	66	322630	32171.5626992 ppb	99
6) bis(2-Chloroethyl)ether	5.054	63	463547	28945.3883128 ppb	96
8) Phenol	4.978	94	653392	31724.8772765 ppb	95
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	514761	31159.2168658 ppb	97
11) n-Decane	5.125	41	304239	23423.1930441 ppb	96
12) 1,3-Dichlorobenzene	5.266	146	577442	30719.0231666 ppb	97
13) 1,4-Dichlorobenzene	5.331	146	585349	31265.3968722 ppb	99
14) Benzyl Alcohol	5.437	79	473171	33954.1583086 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	563584	30452.3675441 ppb	98
16) bis(2-Chloroisopropyl)...	5.560	121	166779	29807.0851878 ppb	99
17) 2-Methylphenol	5.537	108	450842	29916.4685960 ppb	99
18) Hexachloroethane	5.813	117	284893	30516.4047768 ppb	99
19) N-Nitrosodi-n-propylamine	5.684	70	296927	31392.4656064 ppb	92
20) 3&4-Methyl phenol	5.690	107	522986	31592.5631544 ppb	98
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.878	77	608855	30483.2178920 ppb	95
25) Isophorone	6.107	82	1096052	30412.3766701 ppb	98
26) 2-Nitrophenol	6.196	139	294521	35759.4075365 ppb	96
27) 2,4-Dimethylphenol	6.225	107	561941	31934.5255164 ppb	99
28) bis(2-Chlorethoxy)methane	6.319	93	682046	30456.7079929 ppb	99
29) 2,4-Dichlorophenol	6.448	162	475318	33013.3154547 ppb	99
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.531	180	500216	29874.5952017 ppb	98
32) Naphthalene	6.625	128	1640972	28888.1689655 ppb	99
33) 4-Chloroaniline	6.672	65	250462	34349.9256074 ppb	99
34) Hexachloro-1,3-butadiene	6.737	225	326317	28794.9923987 ppb	99
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 10.D
Acq On : 19 May 2015 8:28 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:54:01 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	523564	33329.5857144 ppb	99
37) 2-Methylnaphthalene	7.360	142	1168719	29931.0106231 ppb	99
38) 1-Methylnaphthalene	7.466	142	1037450	30853.5714318 ppb	99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41) Hexachlorocyclopentadiene	7.519	237	378044	45245.4996581 ppb	98
42) 2,4,6-Trichlorophenol	7.660	196	359748	33736.2230751 ppb	96
43) 2,4,5-Trichlorophenol	7.707	196	380432	33252.7162803 ppb	99
45) Biphenyl	7.860	154	1395972	30016.4629732 ppb	100
46) 2-Chloronaphthalene	7.890	162	1126520	28693.9799207 ppb	97
47) 2-Nitroaniline	8.001	138	386851	40631.2235011 ppb	100
48) Acenaphthylene	8.348	152	1836080	33654.2497489 ppb	100
49) Dimethyl phthalate	8.184	163	1297436	30898.7782947 ppb	99
50) 2,6-Dinitrotoluene	8.254	165	304504	34776.5619169 ppb	90
51) 3-Nitroaniline	8.448	138	299204	34636.9096256 ppb	94
52) Acenaphthene	8.537	153	1188550	30403.3505595 ppb	99
53) 2,4-Dinitrophenol	8.554	184	154754	40291.4099370 ppb	97
54) Dibenzofuran	8.719	168	1668354	30392.3436312 ppb	99
55) 2,4-Dinitrotoluene	8.695	165	421894	37239.4663144 ppb	98
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d	
57) 4-Nitrophenol	8.637	139	263002	45618.3945630 ppb	97
58) Fluorene	9.095	166	1405883	31687.0153813 ppb	99
59) 4-Chlorophenyl-phenyle...	9.084	204	629805	30582.1901097 ppb	99
60) Diethyl phthalate	8.942	149	1402276	30816.2005768 ppb	99
61) 4-Nitroaniline	9.119	138	243532	32322.4236597 ppb	96
62) Azobenzene	9.260	77	1518748	31517.5195182 ppb	98
63) Atrazine	0.000		0	N.D. d	
65) 4,6-Dinitro-2-methylph...	9.137	198	229394	50361.8472867 ppb	83
66) N-Nitrosodiphenylamine	9.213	169	1140684	30905.6477491 ppb	99
68) 4-Bromophenyl-phenylether	9.619	248	373480	31351.5373042 ppb	95
69) Hexachlorobenzene	9.695	284	426124	29345.1854993 ppb	97
70) n-octadecane	9.936	55	322845	29235.4483710 ppb	99
71) Pentachlorophenol	9.913	266	250759	54346.0270370 ppb	98
72) Phenanthrene	10.160	178	2132712	28583.4252130 ppb	99
73) Anthracene	10.213	178	2119760	31824.4282884 ppb	100
74) Carbazole	10.384	167	1714293	28301.8729766 ppb	100
75) Di-n-butyl phthalate	10.713	149	2773739	31978.0684498 ppb	99
76) 2-nitrodiphenylamine	0.000		0	N.D. d	
77) Fluoranthene	11.466	202	2505494	32329.0932594 ppb	99
79) Benzidine	0.000		0	N.D. d	
80) Pyrene	11.725	202	2637055	30609.1782917 ppb	99
82) Benzylbutyl phthalate	12.366	149	1382519	30344.7488937 ppb	94
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d	
84) Benzo(a)anthracene	13.030	228	2407919	25643.5107430 ppb	99
85) Chrysene	13.072	228	2266642	30039.2318752 ppb	98
86) bis(2-Ethylhexyl)phtha...	12.948	149	2042062	31287.0451324 ppb	99
87) Di-n-octyl phthalate	13.677	149	3509561	29885.4172130 ppb	99
89) Benzo(b)fluoranthene	14.348	252	2272377	28288.9055576 ppb	99
90) Benzo(k)fluoranthene	14.383	252	2219423	29851.2804313 ppb	99
91) Benzo(a)pyrene	14.830	252	2130689	29421.9058817 ppb	98
92) Indeno(1,2,3-cd)pyrene	16.824	276	2200862	30101.5469600 ppb	96
93) Dibenz(a,h)anthracene	16.836	278	1813601	29516.9301526 ppb	95
94) Benzo(g,h,i)perylene	17.412	276	1879450	30367.1508767 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 10.D
Acq On : 19 May 2015 8:28 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:54:01 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

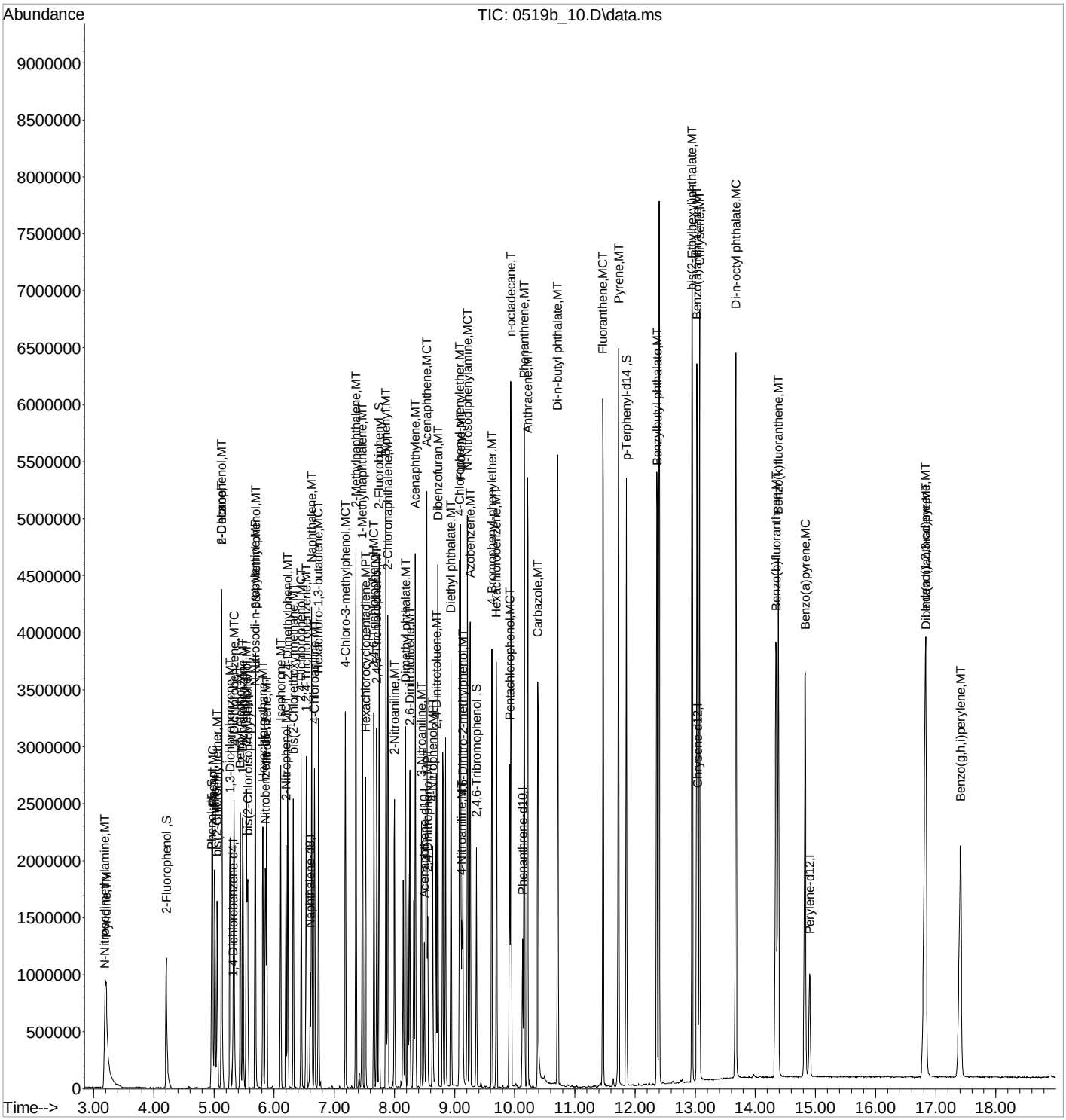
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 10.D
Acq On : 19 May 2015 8:28 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:54:01 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 11.D
Acq On : 19 May 2015 8:51 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:57:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.319	152	93999	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.601	136	381725	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.495	164	258667	8000.0000000 ppb	-0.01
64) Phenanthrene-d10	10.131	188	461465	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.042	240	486601	8000.0000000 ppb	-0.02
88) Perylene-d12	14.901	264	459175	8000.0000000 ppb	-0.03
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	579636	42073.6170194 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 210368.09%#		
7) Phenol-d5	4.966	99	789292	43086.7659201 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 215433.83%#		
23) Nitrobenzene-d5	5.860	82	829682	42170.4837503 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 421704.84%#		
44) 2-Fluorobiphenyl	7.748	172	1685533	41441.0883901 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 414410.88%#		
67) 2,4,6-Tribromophenol	9.366	330	270681	52410.6555888 ppb	-0.01
Spiked Amount 20.000	Range 10 - 148		Recovery = 262053.28%#		
81) p-Terphenyl-d14	11.860	244	2454018	41177.5414828 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 411775.41%#		
Target Compounds					Qvalue
2) Pyridine	3.207	79	909759	41493.6433821 ppb	96
3) N-Nitrosodimethylamine	3.184	42	467189	34589.5542789 ppb	94
5) Aniline	5.013	66	426101	42674.6655546 ppb	99
6) bis(2-Chloroethyl)ether	5.054	63	601621	37731.0383205 ppb	94
8) Phenol	4.978	94	865758	42219.4737239 ppb	95
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.125	128	688745	41872.5607340 ppb	97
11) n-Decane	5.125	41	386320	29872.2936112 ppb	95
12) 1,3-Dichlorobenzene	5.266	146	761637	40694.6418240 ppb	97
13) 1,4-Dichlorobenzene	5.331	146	777685	41719.8704856 ppb	98
14) Benzyl Alcohol	5.437	79	629513	45370.0979559 ppb	98
15) 1,2-Dichlorobenzene	5.478	146	747110	40544.9828722 ppb	98
16) bis(2-Chloroisopropyl)...	5.560	121	221364	39735.1906578 ppb #	88
17) 2-Methylphenol	5.537	108	588713	39235.5504256 ppb	97
18) Hexachloroethane	5.813	117	371836	40003.0575483 ppb	99
19) N-Nitrosodi-n-propylamine	5.690	70	389010	41307.2864530 ppb	86
20) 3&4-Methyl phenol	5.690	107	693564	42079.5906000 ppb	96
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.878	77	804313	40923.2678602 ppb	93
25) Isophorone	6.113	82	1457682	41103.6394520 ppb	98
26) 2-Nitrophenol	6.201	139	394849	48719.5620185 ppb	88
27) 2,4-Dimethylphenol	6.225	107	739099	42684.5440832 ppb	98
28) bis(2-Chlorethoxy)methane	6.319	93	896041	40662.6295407 ppb	99
29) 2,4-Dichlorophenol	6.448	162	629629	44441.4160128 ppb	98
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.537	180	665839	40412.1507375 ppb	99
32) Naphthalene	6.625	128	2175392	38918.3712449 ppb	99
33) 4-Chloroaniline	6.672	65	327657	45666.9168570 ppb	99
34) Hexachloro-1,3-butadiene	6.737	225	439773	39437.0222392 ppb	99
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 11.D
Acq On : 19 May 2015 8:51 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:57:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	702617	45454.5200458 ppb		99
37) 2-Methylnaphthalene	7.360	142	1554240	40450.8491636 ppb		99
38) 1-Methylnaphthalene	7.466	142	1378933	41675.3942841 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41) Hexachlorocyclopentadiene	7.519	237	517716	63030.0081772 ppb		99
42) 2,4,6-Trichlorophenol	7.660	196	479399	45731.7618087 ppb		97
43) 2,4,5-Trichlorophenol	7.707	196	509016	45258.9274440 ppb		98
45) Biphenyl	7.860	154	1857181	40621.8574050 ppb		99
46) 2-Chloronaphthalene	7.895	162	1497326	38796.3605664 ppb		98
47) 2-Nitroaniline	8.001	138	519019	55452.6327791 ppb		98
48) Acenaphthylene	8.348	152	2452006	45718.5638397 ppb		99
49) Dimethyl phthalate	8.184	163	1733509	41995.6398243 ppb		98
50) 2,6-Dinitrotoluene	8.260	165	400515	46530.2264271 ppb		96
51) 3-Nitroaniline	8.454	138	397566	46817.0144490 ppb	#	87
52) Acenaphthene	8.537	153	1565193	40728.1445254 ppb		99
53) 2,4-Dinitrophenol	8.554	184	219993	58264.2528320 ppb		92
54) Dibenzofuran	8.725	168	2223376	41201.3678905 ppb		99
55) 2,4-Dinitrotoluene	8.695	165	563441	50590.7692446 ppb		97
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.636	139	362343	63932.7755805 ppb		98
58) Fluorene	9.101	166	1849273	42399.0300598 ppb		98
59) 4-Chlorophenyl-phenyle...	9.084	204	822519	40628.5343683 ppb		98
60) Diethyl phthalate	8.942	149	1872560	41860.4671567 ppb		99
61) 4-Nitroaniline	9.125	138	329922	44543.2495508 ppb		96
62) Azobenzene	9.260	77	1995096	42116.5556565 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.142	198	321151	71665.6593343 ppb		93
66) N-Nitrosodiphenylamine	9.213	169	1509872	41580.9930027 ppb		99
68) 4-Bromophenyl-phenylether	9.625	248	490723	41870.6911096 ppb	#	85
69) Hexachlorobenzene	9.701	284	577660	40434.8079515 ppb		98
70) n-octadecane	9.936	55	419115	38577.2373578 ppb		98
71) Pentachlorophenol	9.913	266	345693	76152.4853083 ppb		97
72) Phenanthrene	10.160	178	2809879	38278.2346807 ppb		98
73) Anthracene	10.219	178	2817071	42988.6627135 ppb		99
74) Carbazole	10.389	167	2203296	36973.0430453 ppb		100
75) Di-n-butyl phthalate	10.713	149	3647865	42747.1944966 ppb		98
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.472	202	3285003	43084.2118024 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.725	202	3501188	41827.6551317 ppb		99
82) Benzylbutyl phthalate	12.360	149	1839619	41558.1235561 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d		
84) Benzo(a)anthracene	13.030	228	3146336	34487.0710867 ppb		98
85) Chrysene	13.072	228	2989429	40776.4805468 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.948	149	2675016	42183.0145686 ppb		100
87) Di-n-octyl phthalate	13.677	149	4610561	40408.7954037 ppb		99
89) Benzo(b)fluoranthene	14.348	252	3115809m	39482.8686541 ppb		
90) Benzo(k)fluoranthene	14.389	252	2840730	38891.5229982 ppb		99
91) Benzo(a)pyrene	14.830	252	2843111	39961.9493028 ppb		98
92) Indeno(1,2,3-cd)pyrene	16.830	276	2930477	40797.7705491 ppb		96
93) Dibenz(a,h)anthracene	16.842	278	2397130	39712.1261046 ppb		94
94) Benzo(g,h,i)perylene	17.418	276	2473928	40687.6341237 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 11.D
Acq On : 19 May 2015 8:51 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:57:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

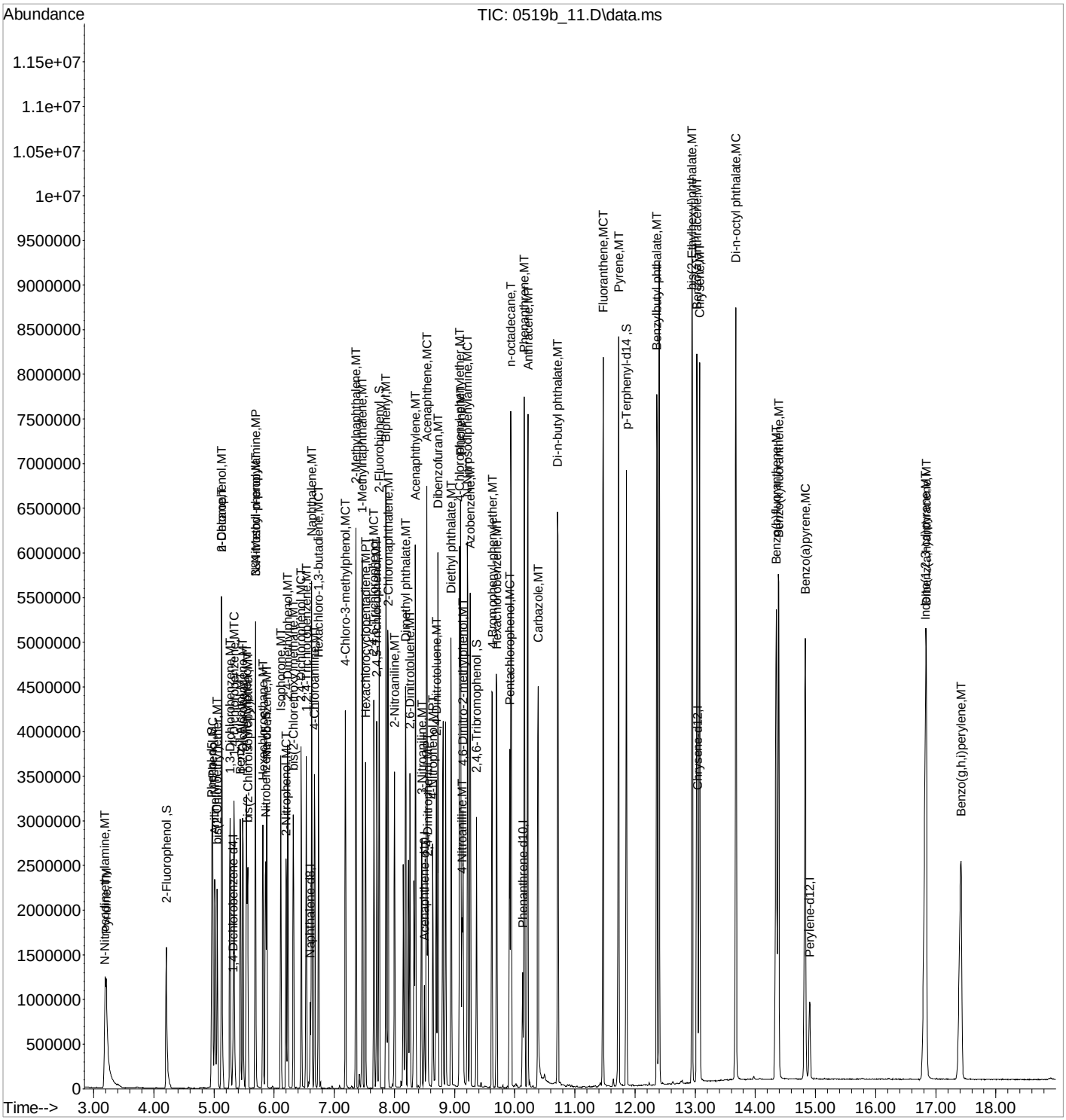
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 11.D
Acq On : 19 May 2015 8:51 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS23

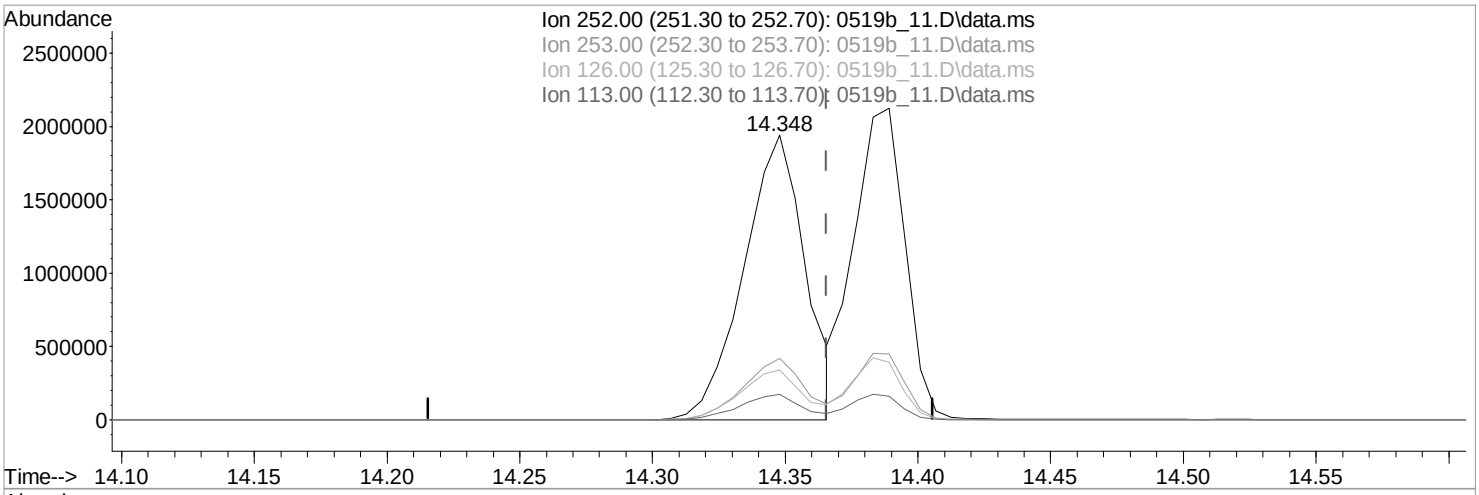
Quant Time: May 20 13:57:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

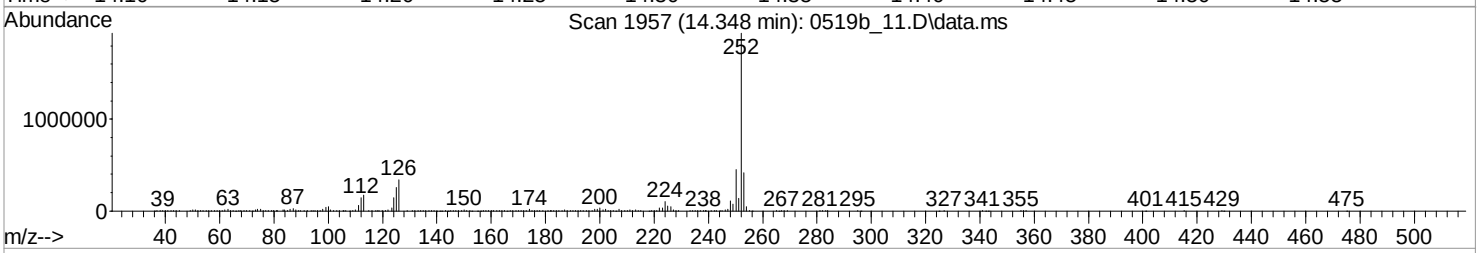


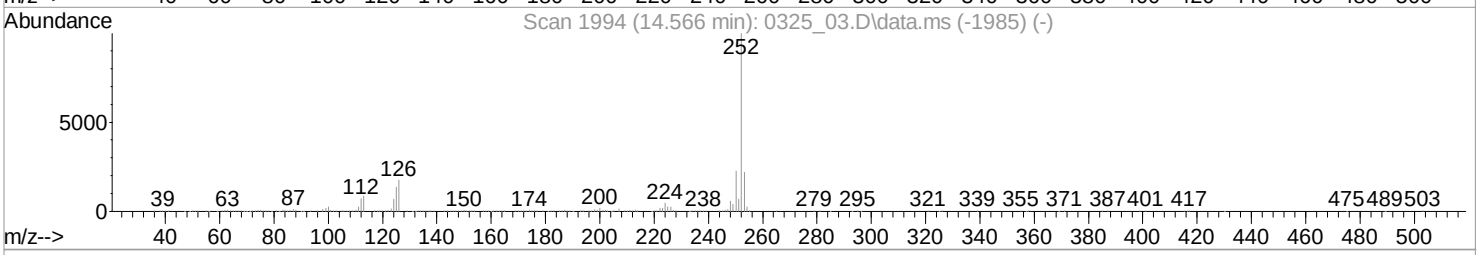
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 11.D
Acq On : 19 May 2015 8:51 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:25:42 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_11.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.348min (-0.018) 39482.8686541 ppb m

response 3115809

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.56
126.00	16.30	17.56
113.00	8.60	9.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 12.D
Acq On : 19 May 2015 9:14 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:58:25 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.319	152	95325	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.601	136	387692	8000.0000000 ppb	-0.01
40) Acenaphthene-d10	8.501	164	267445	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.130	188	476765	8000.0000000 ppb	-0.01
78) Chrysene-d12	13.042	240	503584	8000.0000000 ppb	-0.02
88) Perylene-d12	14.907	264	468494	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.207	112	706798	50590.1806298 ppb	-0.01
Spiked Amount 20.000	Range 10 - 87		Recovery = 252950.90%#		
7) Phenol-d5	4.966	99	976367	52557.6221321 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 262788.11%#		
23) Nitrobenzene-d5	5.860	82	1010855	50588.2367907 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 505882.37%#		
44) 2-Fluorobiphenyl	7.748	172	2062320	49040.6807340 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 490406.81%#		
67) 2,4,6-Tribromophenol	9.366	330	336562	63075.5870696 ppb	-0.01
Spiked Amount 20.000	Range 10 - 148		Recovery = 315377.94%#		
81) p-Terphenyl-d14	11.860	244	3039193	49276.7462620 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery = 492767.46%#		
Target Compounds					Qvalue
2) Pyridine	3.207	79	1113024	50058.3070631 ppb	96
3) N-Nitrosodimethylamine	3.184	42	569982	41613.0853657 ppb	93
5) Aniline	5.013	66	526332	51979.6998444 ppb	98
6) bis(2-Chloroethyl)ether	5.054	63	731599	45244.4478077 ppb	94
8) Phenol	4.978	94	1056103	50785.4140842 ppb	96
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.131	128	837062	50181.6697904 ppb	92
11) n-Decane	5.125	41	458308	34945.8199096 ppb #	95
12) 1,3-Dichlorobenzene	5.266	146	933123	49163.6943882 ppb	96
13) 1,4-Dichlorobenzene	5.331	146	952041	50362.9661892 ppb	98
14) Benzyl Alcohol	5.437	79	771467	54827.5433402 ppb	99
15) 1,2-Dichlorobenzene	5.478	146	913299	48874.4601594 ppb	100
16) bis(2-Chloroisopropyl)...	5.560	121	269433	47690.8994875 ppb #	85
17) 2-Methylphenol	5.542	108	725159	47656.8995193 ppb	99
18) Hexachloroethane	5.813	117	461559	48964.9590559 ppb	99
19) N-Nitrosodi-n-propylamine	5.690	70	478501	50103.1660416 ppb #	84
20) 3&4-Methyl phenol	5.690	107	859205	51404.1495407 ppb	95
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.878	77	974784	48833.4462871 ppb	94
25) Isophorone	6.113	82	1782089	49477.8295679 ppb	99
26) 2-Nitrophenol	6.201	139	484576	58870.5370800 ppb	90
27) 2,4-Dimethylphenol	6.231	107	901211	51245.8003976 ppb	100
28) bis(2-Chlorethoxy)methane	6.319	93	1089352	48674.2846082 ppb	99
29) 2,4-Dichlorophenol	6.454	162	773770	53774.8016499 ppb	95
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.537	180	814370	48666.2929208 ppb	98
32) Naphthalene	6.625	128	2675841	47134.7488744 ppb	100
33) 4-Chloroaniline	6.672	65	398925	54744.0922990 ppb	97
34) Hexachloro-1,3-butadiene	6.737	225	542272	47880.2597573 ppb	99
35) Caprolactam	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 12.D
Acq On : 19 May 2015 9:14 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:58:25 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.184	107	861607	54882.1865822 ppb		97
37) 2-Methylnaphthalene	7.360	142	1900318	48696.7085097 ppb		99
38) 1-Methylnaphthalene	7.472	142	1696528	50484.8823274 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41) Hexachlorocyclopentadiene	7.519	237	649364	76462.8581612 ppb		98
42) 2,4,6-Trichlorophenol	7.660	196	591305	54555.5456223 ppb		95
43) 2,4,5-Trichlorophenol	7.707	196	631258	54285.8024779 ppb		98
45) Biphenyl	7.860	154	2239647	47379.6296179 ppb		99
46) 2-Chloronaphthalene	7.895	162	1799220	45088.4633350 ppb		97
47) 2-Nitroaniline	8.001	138	630698	65172.8796810 ppb		99
48) Acenaphthylene	8.348	152	2981853	53772.9451865 ppb		100
49) Dimethyl phthalate	8.189	163	2100579	49217.9662596 ppb		98
50) 2,6-Dinitrotoluene	8.260	165	496547	55793.4588281 ppb		94
51) 3-Nitroaniline	8.454	138	493577	56215.4816371 ppb		93
52) Acenaphthene	8.536	153	1945399	48960.0620688 ppb		99
53) 2,4-Dinitrophenol	8.560	184	288208	73825.4145410 ppb		96
54) Dibenzofuran	8.725	168	2703078	48446.6601355 ppb		98
55) 2,4-Dinitrotoluene	8.701	165	692806	60164.5981408 ppb		94
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.642	139	442043	75435.3213021 ppb		95
58) Fluorene	9.101	166	2284057	50648.7082695 ppb		98
59) 4-Chlorophenyl-phenyle...	9.083	204	1014347	48459.4308782 ppb		96
60) Diethyl phthalate	8.948	149	2322788	50220.8946955 ppb		99
61) 4-Nitroaniline	9.130	138	402659	52579.2726858 ppb		96
62) Azobenzene	9.260	77	2448584	49993.1612286 ppb		97
63) Atrazine	0.000		0	N.D. d		
65) 4,6-Dinitro-2-methylph...	9.148	198	398622	86098.8771296 ppb		97
66) N-Nitrosodiphenylamine	9.219	169	1856206	49478.3603253 ppb		98
68) 4-Bromophenyl-phenylether	9.625	248	611321	50486.7520400 ppb	#	87
69) Hexachlorobenzene	9.701	284	713140	48316.1462482 ppb		97
70) n-octadecane	9.936	55	503841	44887.5421248 ppb		98
71) Pentachlorophenol	9.919	266	431433	91990.1354955 ppb		96
72) Phenanthrene	10.160	178	3440047	45358.9570356 ppb		97
73) Anthracene	10.219	178	3487727	51514.9197421 ppb		99
74) Carbazole	10.389	167	2604035	42295.4421330 ppb		100
75) Di-n-butyl phthalate	10.719	149	4373036	49600.5296251 ppb		98
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.472	202	4043275	51327.4943514 ppb		98
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.730	202	4232891	48863.6884651 ppb		98
82) Benzylbutyl phthalate	12.366	149	2252636	49172.2564448 ppb		96
83) 3,3-Dichlorobenzidine	0.000		0	N.D. d		
84) Benzo(a)anthracene	13.036	228	3912195	41435.5187582 ppb		98
85) Chrysene	13.077	228	3625538	47785.3785599 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.954	149	3269541	49819.4685858 ppb		98
87) Di-n-octyl phthalate	13.677	149	5618287	47580.2945691 ppb		98
89) Benzo(b)fluoranthene	14.348	252	3743083m	46488.0715057 ppb		
90) Benzo(k)fluoranthene	14.389	252	3602287	48336.7565048 ppb		99
91) Benzo(a)pyrene	14.836	252	3527167	48590.6907485 ppb		98
92) Indeno(1,2,3-cd)pyrene	16.842	276	3560933	48588.7937735 ppb		94
93) Dibenz(a,h)anthracene	16.854	278	2942339	47774.7542199 ppb		94
94) Benzo(g,h,i)perylene	17.430	276	3029255	48829.8529435 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 12.D
Acq On : 19 May 2015 9:14 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 13:58:25 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

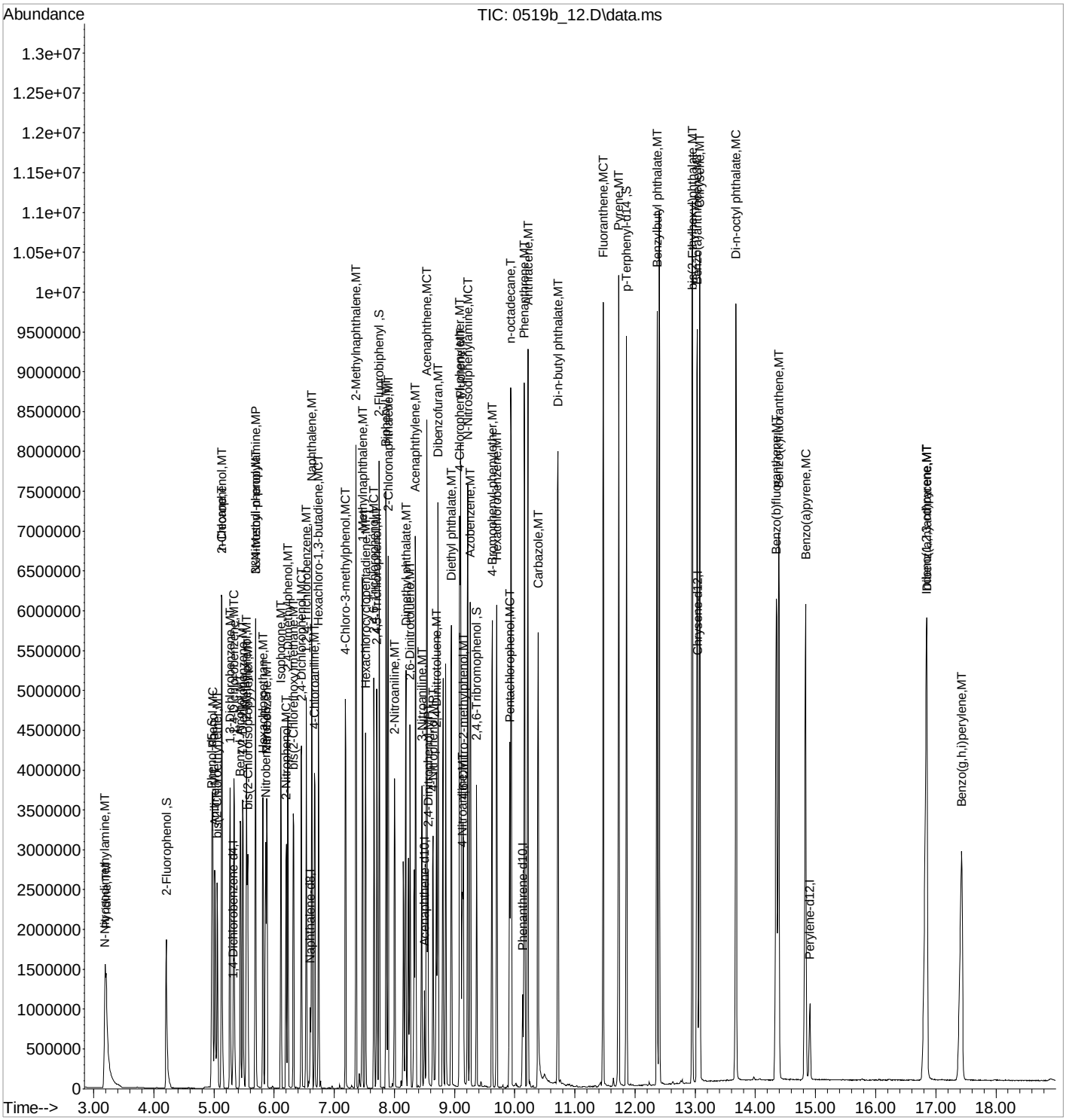
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 12.D
Acq On : 19 May 2015 9:14 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS23

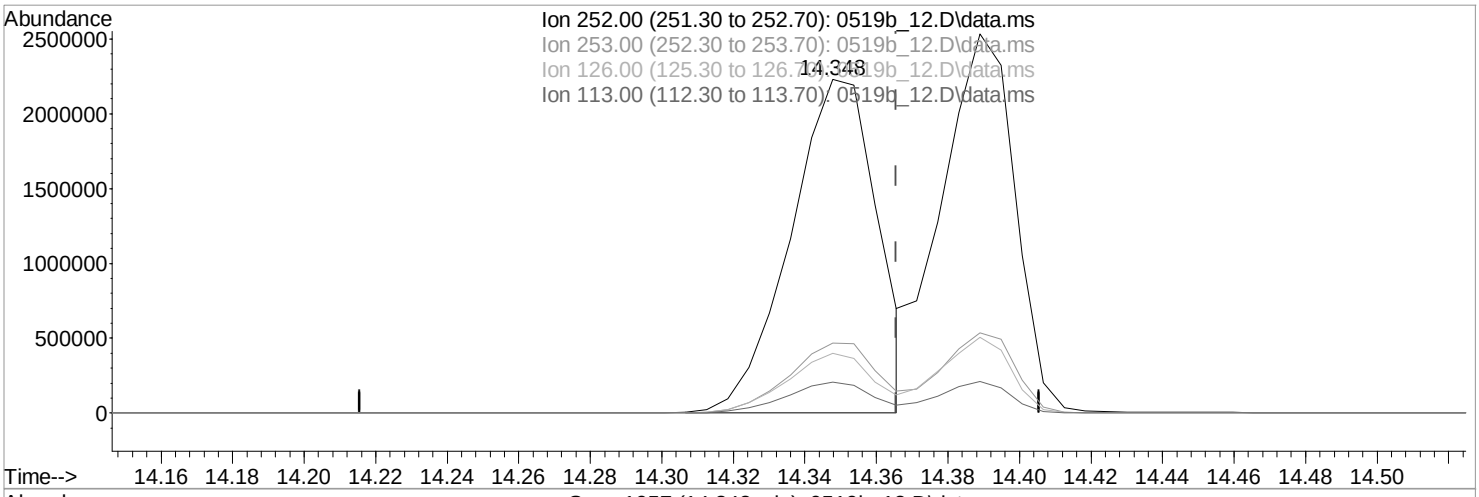
Quant Time: May 20 13:58:25 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

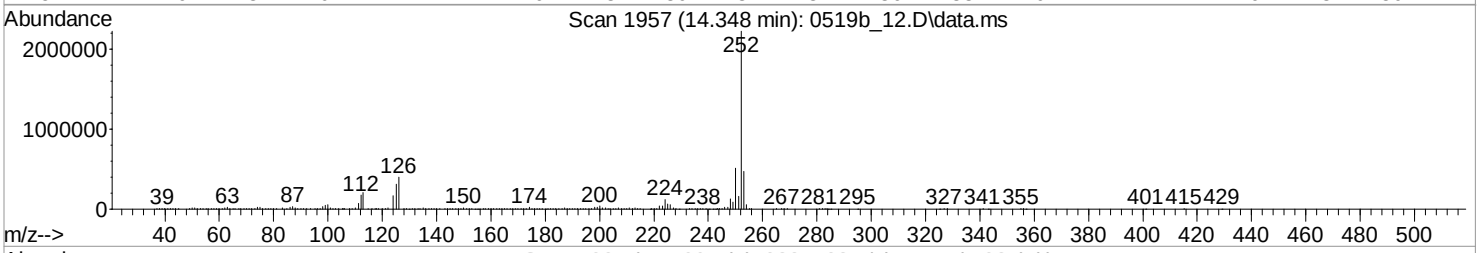


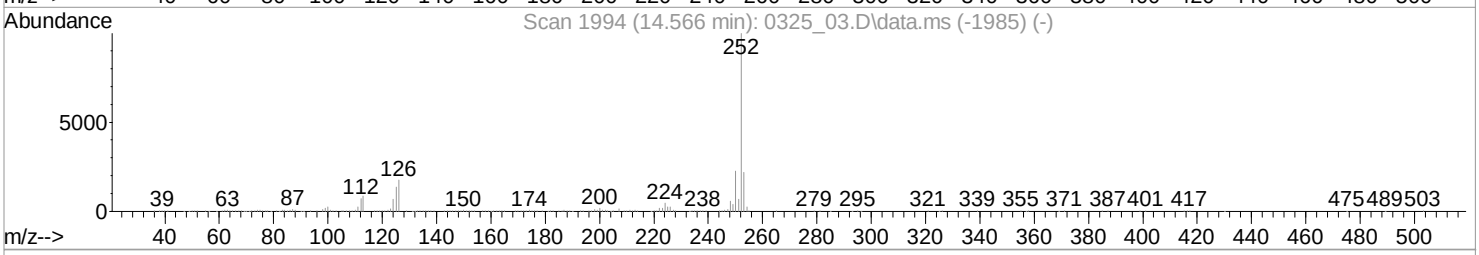
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 12.D
Acq On : 19 May 2015 9:14 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 11:25:46 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 11:25:05 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_12.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.348min (-0.018) 46488.0715057 ppb m

response 3743083

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.03
126.00	16.30	17.88
113.00	8.60	9.33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 13.D
Acq On : 19 May 2015 9:38 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:11:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	95050	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	383266	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	256332	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	450947	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	459353	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	423972	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.807	172	64	1.5554737 ppb	0.05
Spiked Amount 10.000	Range 26 - 122		Recovery	= 15.55%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.225	79	64	2.7863693 ppb #	7
3) N-Nitrosodimethylamine	3.178	42	567	45.1640016 ppb #	1
5) Aniline	4.984	66	215	20.2803296 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.978	94	219	10.1817493 ppb #	37
9) Benzaldehyde	4.919	105	79687	10000.0000000 ppb	100
10) 2-Chlorophenol	5.125	128	58	3.3881362 ppb #	32
11) n-Decane	5.119	41	268	23.3542579 ppb #	81
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.437	79	196	13.1587022 ppb #	67
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.695	107	1205	69.7328374 ppb #	1
21) Acetophenone	5.695	105	244221	9988.1395929 ppb	100
24) Nitrobenzene	5.901	77	453	22.7223198 ppb #	34
25) Isophorone	6.101	82	54	1.5059186 ppb	61
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.225	107	118	6.4443311 ppb #	22
28) bis(2-Chlorethoxy)methane	6.307	93	536	23.8974478 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.307	105	97109	10021.0515453 ppb	100
31) 1,2,4-Trichlorobenzene	6.531	180	569	34.0783055 ppb	89
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.019	113	55502	10000.0000000 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 13.D
Acq On : 19 May 2015 9:38 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:11:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	7.195	107	336	20.2034926 ppb #	45
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	7.531	142	1487	43.6199271 ppb #	39
39) 1,2,4,5-Tetrachloroben...	7.536	216	147340	10000.0000000 ppb	100
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	7.707	196	57	5.1354314 ppb #	12
43) 2,4,5-Trichlorophenol	7.707	196	57	4.8170233 ppb #	13
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	8.172	163	63	1.4907574 ppb #	64
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	8.719	168	178	3.2777475 ppb #	46
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.848	232	82649	10000.0000000 ppb	100
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	8.936	149	64	1.4125935 ppb	65
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.254	77	77	1.5750851 ppb #	1
63) Atrazine	9.772	200	112442	10000.0000000 ppb	100
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.983	55	1140	105.7478506 ppb #	39
71) Pentachlorophenol	9.913	266	5374	1373.3377176 ppb	91
72) Phenanthrene	10.148	178	129	1.8548485 ppb	70
73) Anthracene	10.207	178	98	1.4643466 ppb	63
74) Carbazole	10.389	167	342	5.8168786 ppb #	61
75) Di-n-butyl phthalate	10.713	149	420	4.8668003 ppb	79
76) 2-nitrodiphenylamine	10.913	167	157977	10000.1266023 ppb	100
77) Fluoranthene	11.466	202	128	1.6518389 ppb #	60
79) Benzidine	11.589	184	263711	10016.0280148 ppb	100
80) Pyrene	11.719	202	276	3.4390010 ppb	59
82) Benzylbutyl phthalate	12.419	149	652	15.6029628 ppb	88
83) 3,3-Dichlorobenzidine	12.971	252	233354	10003.4294435 ppb	100
84) Benzo(a)anthracene	13.036	228	1746	22.5683078 ppb #	1
85) Chrysene	13.036	228	1746	25.1170515 ppb #	63
86) bis(2-Ethylhexyl)phtha...	12.971	149	2151	35.1488975 ppb #	1
87) Di-n-octyl phthalate	13.713	149	789	7.4206521 ppb	46
89) Benzo(b)fluoranthene	14.365	252	284	4.0149847 ppb #	36
90) Benzo(k)fluoranthene	14.407	252	122	1.8566012 ppb #	7
91) Benzo(a)pyrene	14.818	252	521	8.0503004 ppb	76
92) Indeno(1,2,3-cd)pyrene	16.795	276	157	2.3550305 ppb #	30
93) Dibenz(a,h)anthracene	16.812	278	212	3.8457021 ppb #	30
94) Benzo(g,h,i)perylene	17.377	276	383	6.7712320 ppb #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 13.D
Acq On : 19 May 2015 9:38 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:11:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

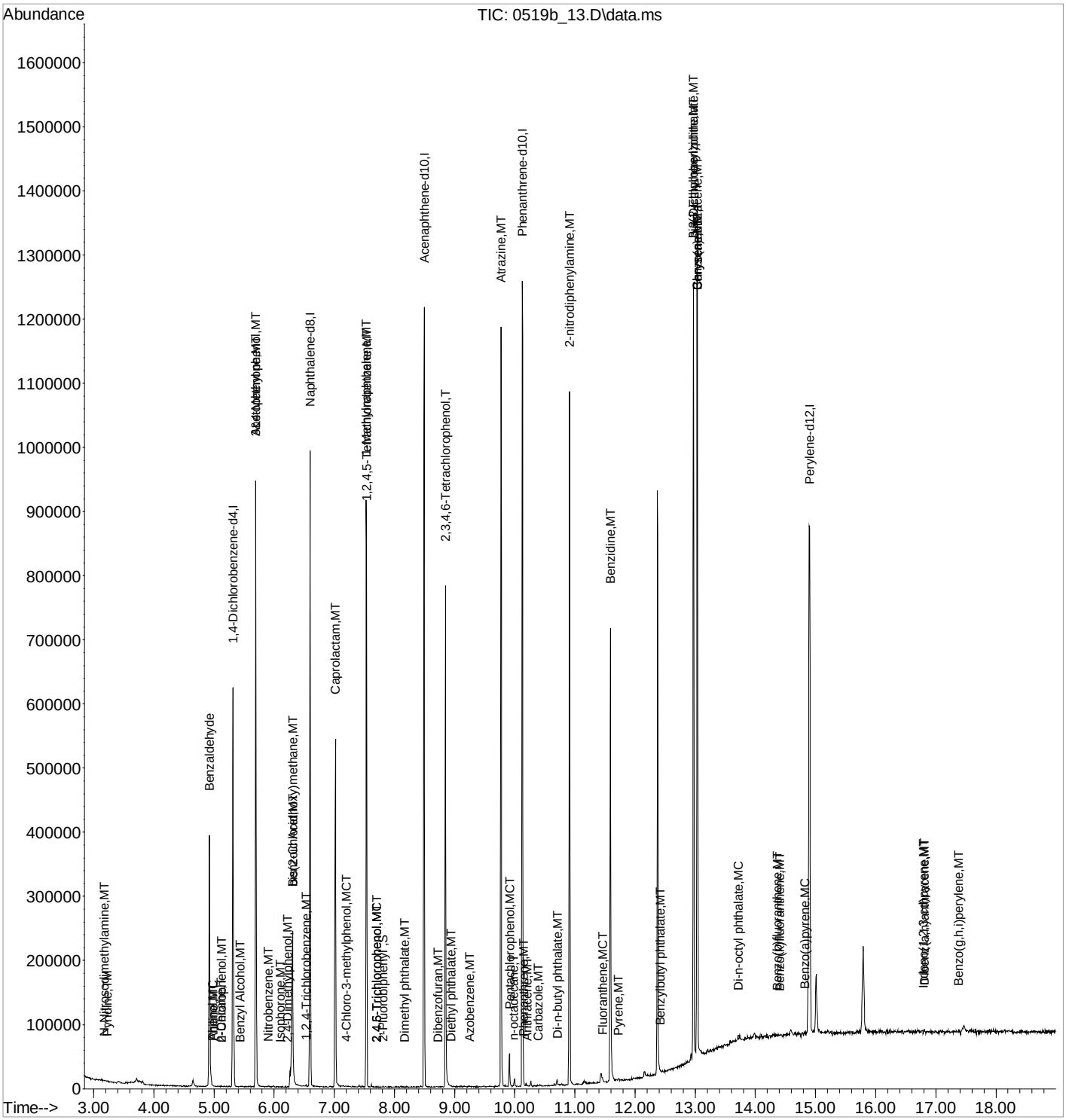
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 13.D
Acq On : 19 May 2015 9:38 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:11:59 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 14.D
Acq On : 19 May 2015 10:01 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	89852	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	366210	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	246887	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	429142	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	424876	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	397650	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.813	172	68	1.7159168 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 17.16%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.184	42	82	6.9095153 ppb #	1
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.925	105	8027	1065.5900550 ppb #	90
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.137	41	204	18.8055404 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.696	107	112	6.8563454 ppb #	1
21) Acetophenone	5.696	105	23162	1002.0791552 ppb	96
24) Nitrobenzene	5.843	77	53	2.7822774 ppb #	39
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.266	105	5470	590.7602088 ppb	98
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.001	113	4199	791.7851211 ppb	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 14.D
Acq On : 19 May 2015 10:01 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	7.531	142	200	6.1400804 ppb #	18
39) 1,2,4,5-Tetrachloroben...	7.531	216	14221	1010.1353410 ppb	96
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.848	232	6288	789.9134949 ppb	96
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	0.000		0	N.D.	
63) Atrazine	9.772	200	9871	911.4591177 ppb	97
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	9.207	169	58	1.6608351 ppb #	31
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.948	55	337	32.8489188 ppb #	31
71) Pentachlorophenol	9.913	266	130	736.5815742 ppb #	47
72) Phenanthrene	10.131	178	136	2.0548594 ppb #	1
73) Anthracene	0.000		0	N.D.	
74) Carbazole	0.000		0	N.D.	
75) Di-n-butyl phthalate	10.713	149	253	3.0806279 ppb	79
76) 2-nitrodiphenylamine	10.913	167	10684	710.6732954 ppb	94
77) Fluoranthene	11.472	202	65	0.8814457 ppb #	60
79) Benzidine	11.595	184	18766	770.5899742 ppb	98
80) Pyrene	11.725	202	56	0.7543894 ppb	59
82) Benzylbutyl phthalate	12.324	149	247	6.3905876 ppb	85
83) 3,3-Dichlorobenzidine	12.972	252	21548	998.6768616 ppb	99
84) Benzo(a)anthracene	13.036	228	1194	16.6856620 ppb #	1
85) Chrysene	13.066	228	90	1.3997526 ppb #	54
86) bis(2-Ethylhexyl)phtha...	12.942	149	2010	35.5100850 ppb #	57
87) Di-n-octyl phthalate	13.707	149	1165	11.8460988 ppb	60
89) Benzo(b)fluoranthene	14.360	252	76	1.1455534 ppb #	61
90) Benzo(k)fluoranthene	14.466	252	59	0.9572977 ppb #	4
91) Benzo(a)pyrene	14.818	252	146	2.4052676 ppb #	32
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 14.D
Acq On : 19 May 2015 10:01 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

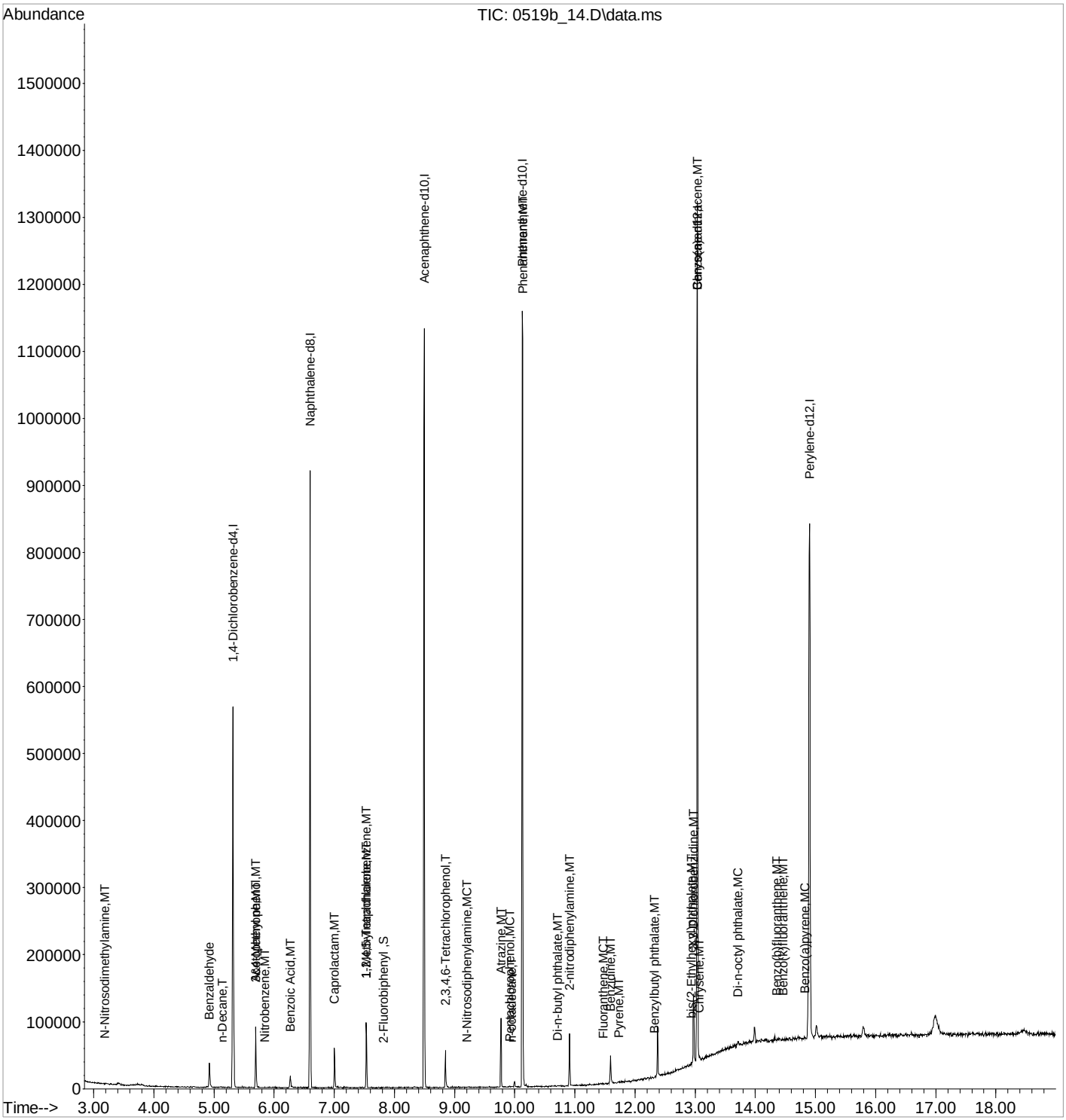
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 14.D
Acq On : 19 May 2015 10:01 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	90207	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	364591	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	246339	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	434663	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	434974	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	410872	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.184	42	307	25.7667481 ppb #	22
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.978	94	74	3.6251158 ppb #	35
9) Benzaldehyde	4.919	105	14608	1931.5909612 ppb	94
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.137	41	196	17.9969633 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.690	107	177	10.7928325 ppb #	1
21) Acetophenone	5.695	105	45377	1955.4614544 ppb	98
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.278	105	14547	1578.0530658 ppb	95
31) 1,2,4-Trichlorobenzene	6.531	180	77	4.8478682 ppb #	19
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.007	113	9156	1734.1693305 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.195	107	55	3.4765159 ppb	#	16
37) 2-Methylnaphthalene	0.000		0	N.D.		
38) 1-Methylnaphthalene	7.537	142	191	5.8898154 ppb	#	18
39) 1,2,4,5-Tetrachloroben...	7.537	216	29584	2110.7197733 ppb		98
41) Hexachlorocyclopentadiene	0.000		0	N.D.		
42) 2,4,6-Trichlorophenol	0.000		0	N.D.		
43) 2,4,5-Trichlorophenol	0.000		0	N.D.		
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
48) Acenaphthylene	0.000		0	N.D.		
49) Dimethyl phthalate	0.000		0	N.D.		
50) 2,6-Dinitrotoluene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) Acenaphthene	0.000		0	N.D.		
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 2,3,4,6-Tetrachlorophenol	8.848	232	13534	1703.9553909 ppb		96
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	0.000		0	N.D.		
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60) Diethyl phthalate	0.000		0	N.D.		
61) 4-Nitroaniline	0.000		0	N.D.		
62) Azobenzene	9.278	77	54	1.1494146 ppb	#	1
63) Atrazine	9.772	200	19100	1767.5611907 ppb		96
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D.		
68) 4-Bromophenyl-phenylether	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) n-octadecane	9.936	55	57	5.4854768 ppb	#	31
71) Pentachlorophenol	9.913	266	530	786.8240453 ppb		84
72) Phenanthrene	10.207	178	61	0.9099581 ppb		70
73) Anthracene	10.207	178	61	0.9456283 ppb		63
74) Carbazole	10.383	167	62	1.0940279 ppb	#	61
75) Di-n-butyl phthalate	10.713	149	256	3.0775636 ppb		79
76) 2-nitrodiphenylamine	10.913	167	23787	1562.1550513 ppb		96
77) Fluoranthene	0.000		0	N.D.		
79) Benzidine	11.589	184	42078	1687.7403480 ppb		99
80) Pyrene	0.000		0	N.D.		
82) Benzylbutyl phthalate	12.430	149	167	4.2204544 ppb		76
83) 3,3-Dichlorobenzidine	12.971	252	42491	1923.5960403 ppb		99
84) Benzo(a)anthracene	13.036	228	1201	16.3938525 ppb	#	1
85) Chrysene	13.036	228	1201	18.2452863 ppb	#	59
86) bis(2-Ethylhexyl)phtha...	12.989	149	2262	39.0343683 ppb	#	57
87) Di-n-octyl phthalate	13.713	149	1856	18.4342850 ppb		74
89) Benzo(b)fluoranthene	14.371	252	145	2.1152621 ppb	#	61
90) Benzo(k)fluoranthene	0.000		0	N.D.		
91) Benzo(a)pyrene	14.818	252	206	3.2845223 ppb	#	40
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93) Dibenz(a,h)anthracene	0.000		0	N.D.		
94) Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

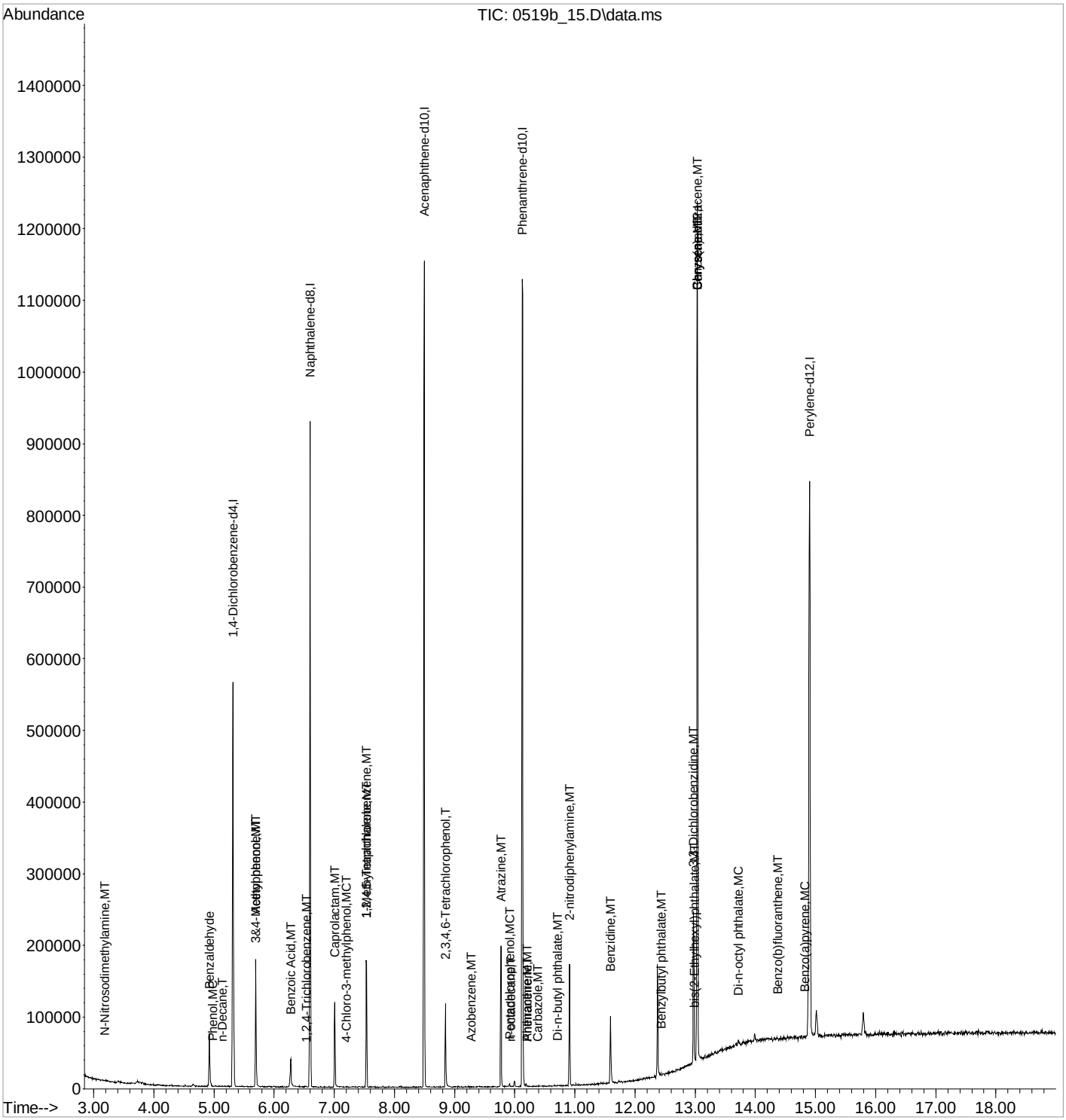
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 15.D
Acq On : 19 May 2015 10:24 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:28 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 16.D
Acq On : 19 May 2015 10:48 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:32 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	82423	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	337813	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	236398	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	415185	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	423436	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	399460	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.813	172	54	1.4231003 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 14.23%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.178	42	77	7.0730020 ppb #	1
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.919	105	33008	4776.7821683 ppb	96
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.131	41	59	5.9290757 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.696	107	548	36.5708077 ppb #	1
21) Acetophenone	5.696	105	109256	5152.8867543 ppb	98
24) Nitrobenzene	5.896	77	216	12.2922717 ppb #	57
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.278	107	82	5.0808179 ppb #	1
28) bis(2-Chlorethoxy)methane	6.284	93	57	2.8832714 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.290	105	37491	4389.3961095 ppb	96
31) 1,2,4-Trichlorobenzene	6.531	180	197	13.3861562 ppb #	77
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.013	113	23832	4871.6467879 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 16.D
Acq On : 19 May 2015 10:48 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:32 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	7.537	142	646	21.4996020 ppb #	34
39) 1,2,4,5-Tetrachloroben...	7.531	216	69187	5327.5528895 ppb	97
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.848	232	36185	4747.3363405 ppb	98
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	0.000		0	N.D.	
63) Atrazine	9.772	200	48290	4656.8009163 ppb	97
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.954	55	291	29.3186206 ppb #	31
71) Pentachlorophenol	9.907	266	1698	944.1958529 ppb	98
72) Phenanthrene	10.160	178	65	1.0151166 ppb	70
73) Anthracene	10.160	178	65	1.0549090 ppb	63
74) Carbazole	10.384	167	76	1.4039813 ppb #	61
75) Di-n-butyl phthalate	10.713	149	339	4.2665593 ppb	79
76) 2-nitrodiphenylamine	10.907	167	64754	4452.0710260 ppb	98
77) Fluoranthene	0.000		0	N.D.	
79) Benzidine	11.589	184	117655	4847.7079936 ppb	99
80) Pyrene	0.000		0	N.D.	
82) Benzylbutyl phthalate	12.330	149	243	6.3084771 ppb	76
83) 3,3-Dichlorobenzidine	12.972	252	105710	4915.9619766 ppb	99
84) Benzo(a)anthracene	13.060	228	72	1.0095923 ppb #	58
85) Chrysene	13.060	228	72	1.1236103 ppb #	54
86) bis(2-Ethylhexyl)phtha...	12.972	149	2487	44.0865242 ppb #	44
87) Di-n-octyl phthalate	13.666	149	319	3.2547267 ppb	74
89) Benzo(b)fluoranthene	14.366	252	105	1.5755012 ppb #	42
90) Benzo(k)fluoranthene	14.419	252	58	0.9368082 ppb #	18
91) Benzo(a)pyrene	14.830	252	64	1.0495865 ppb #	59
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	16.807	278	70	1.3477263 ppb #	49
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 16.D
Acq On : 19 May 2015 10:48 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:32 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

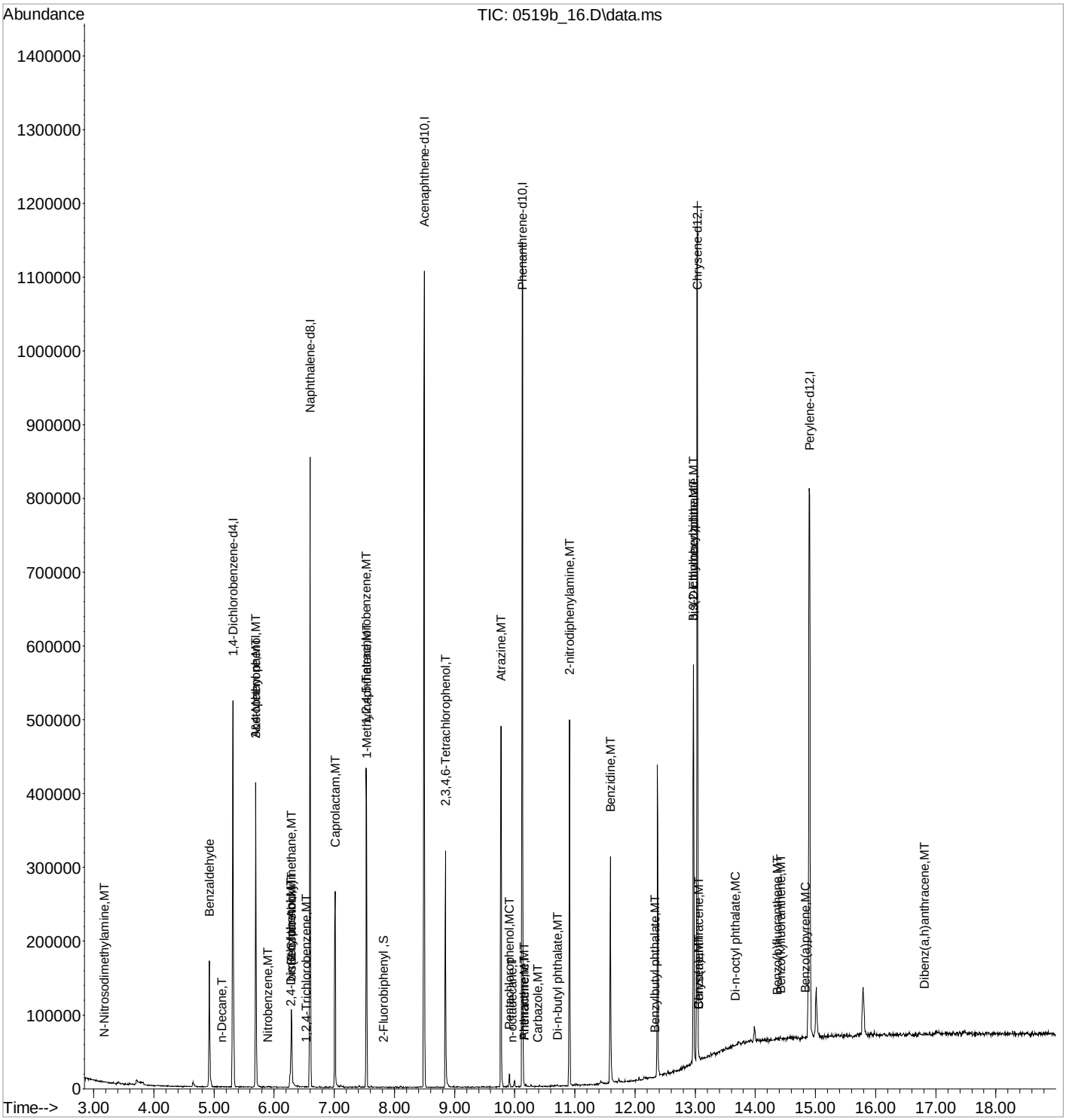
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 16.D
Acq On : 19 May 2015 10:48 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:32 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 17.D
Acq On : 19 May 2015 11:11 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	85253	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	348300	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	235042	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	420265	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	435602	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	409312	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.801	172	139	3.6842990 ppb	0.05
Spiked Amount 10.000	Range 26 - 122		Recovery	= 36.84%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.201	42	222	19.7153631 ppb #	23
5) Aniline	4.972	66	56	5.8893454 ppb #	24
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.972	94	251	13.0105141 ppb #	50
9) Benzaldehyde	4.919	105	146768	20534.6048345 ppb	100
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.142	41	133	12.9218701 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.695	107	2095	135.1688964 ppb #	1
21) Acetophenone	5.695	105	452820	20647.6033805 ppb	99
24) Nitrobenzene	5.878	77	621	34.2762171 ppb #	25
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	6.331	93	888	43.5658827 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.325	105	199059m	22603.8518309 ppb	
31) 1,2,4-Trichlorobenzene	6.531	180	888	58.5228558 ppb #	76
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.031	113	106412	21097.3929731 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 17.D
Acq On : 19 May 2015 11:11 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	7.531	142	2642	85.2812583 ppb #	41
39) 1,2,4,5-Tetrachloroben...	7.536	216	279051	20840.5769297 ppb	100
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	7.660	196	71	6.9761816 ppb #	67
43) 2,4,5-Trichlorophenol	7.660	196	71	6.5436430 ppb #	72
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.848	232	161666	21332.3372938 ppb	98
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.330	77	63	1.4054364 ppb #	1
63) Atrazine	9.777	200	210766	20442.2805267 ppb	99
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.936	55	206	20.5038869 ppb #	31
71) Pentachlorophenol	9.913	266	11724	2249.4255498 ppb	92
72) Phenanthrene	10.154	178	80	1.2342723 ppb	70
73) Anthracene	10.154	178	80	1.2826556 ppb	63
74) Carbazole	0.000		0	N.D.	
75) Di-n-butyl phthalate	10.707	149	360	4.4760922 ppb	79
76) 2-nitrodiphenylamine	10.913	167	327164	22221.8097066 ppb	99
77) Fluoranthene	0.000		0	N.D.	
79) Benzidine	11.589	184	566315	22682.0363401 ppb	99
80) Pyrene	11.719	202	116	1.5241858 ppb	59
82) Benzylbutyl phthalate	12.354	149	168	4.2396056 ppb	81
83) 3,3-Dichlorobenzidine	12.971	252	446841	20199.6279628 ppb	100
84) Benzo(a)anthracene	13.030	228	1269	17.2970910 ppb #	1
85) Chrysene	13.030	228	1269	19.2505318 ppb #	61
86) bis(2-Ethylhexyl)phtha...	12.948	149	1380	23.7797385 ppb	80
87) Di-n-octyl phthalate	13.718	149	970	9.6204081 ppb	74
89) Benzo(b)fluoranthene	14.365	252	57	0.8346860 ppb #	61
90) Benzo(k)fluoranthene	14.477	252	116	1.8285190 ppb #	1
91) Benzo(a)pyrene	14.807	252	254	4.0652830 ppb #	59
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 17.D
Acq On : 19 May 2015 11:11 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

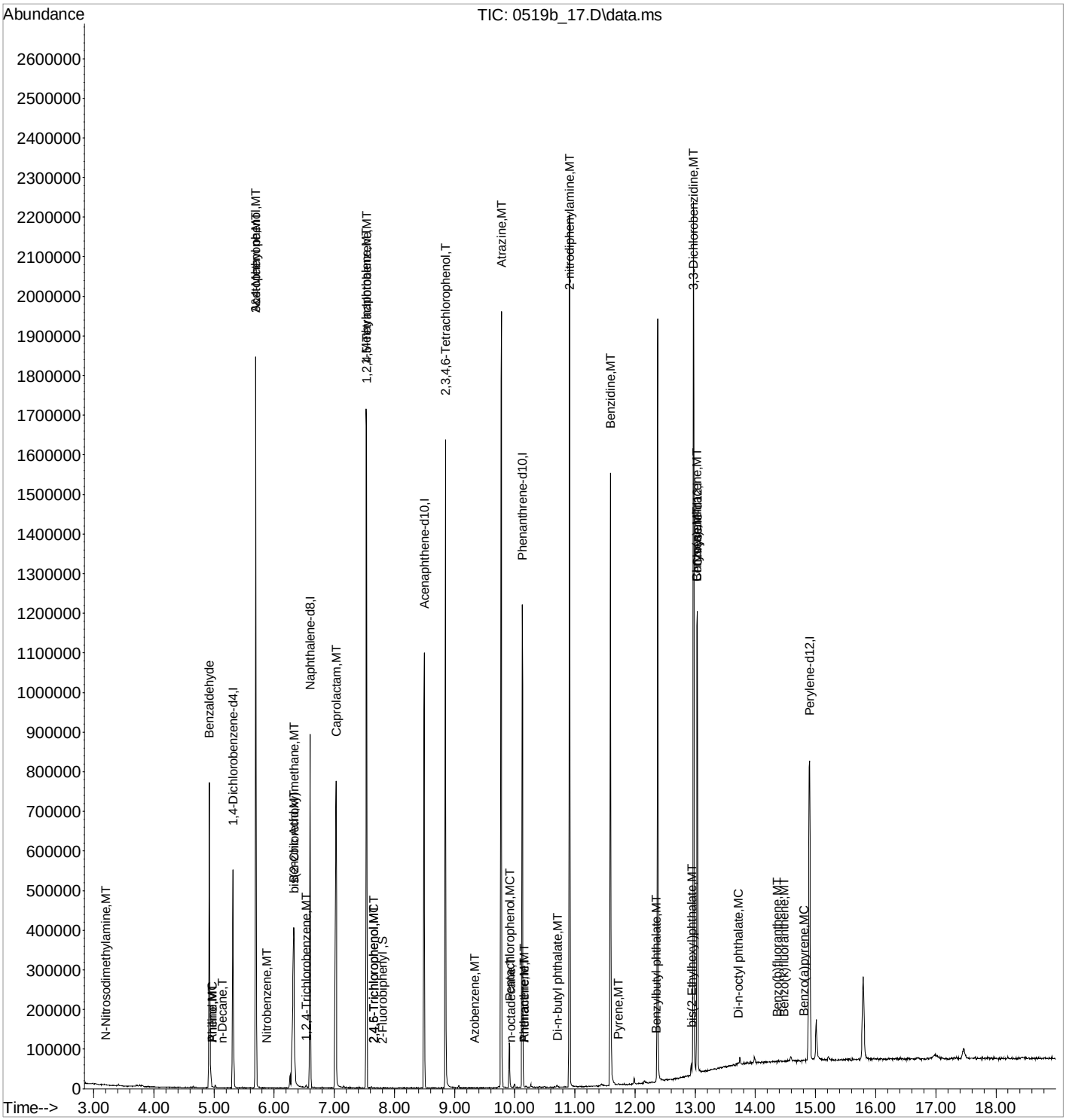
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 17.D
Acq On : 19 May 2015 11:11 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS23

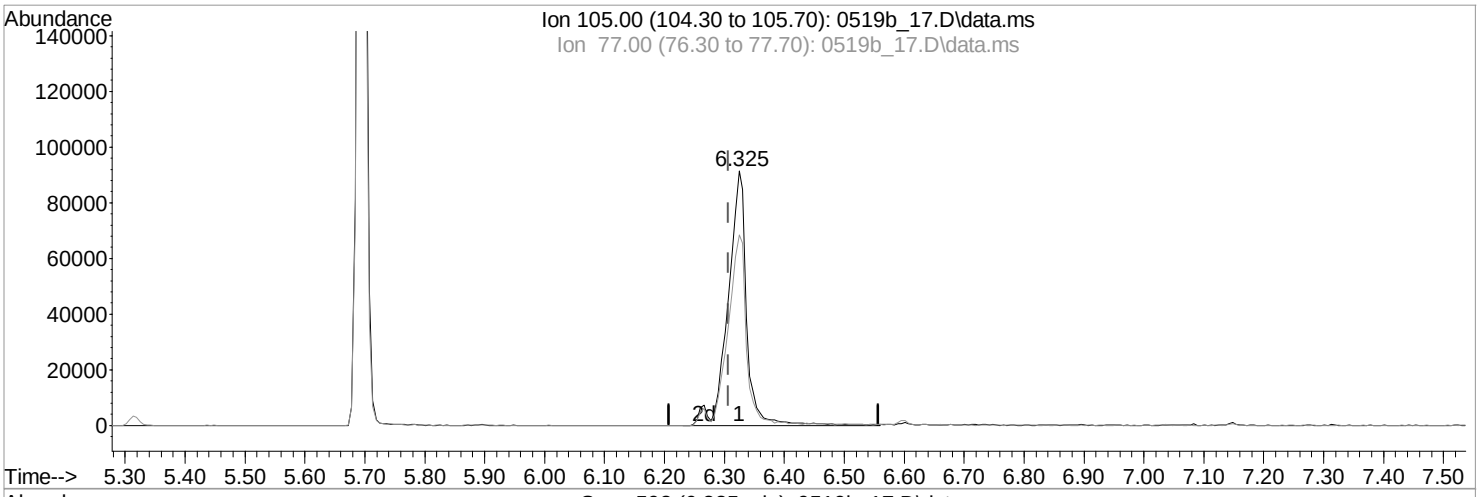
Quant Time: May 20 14:16:24 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

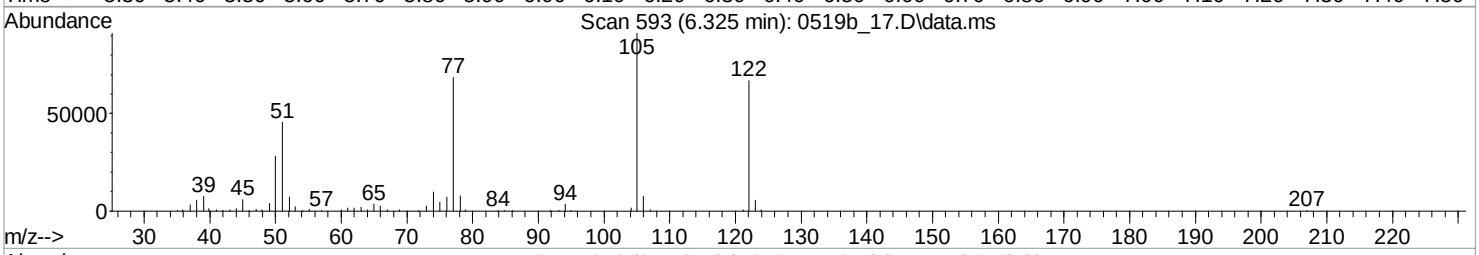


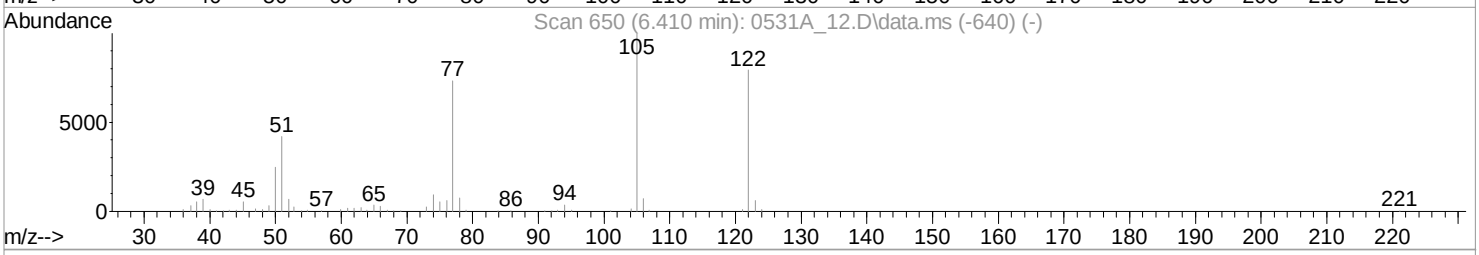
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 17.D
Acq On : 19 May 2015 11:11 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:36 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_17.D\data.ms

(30) Benzoic Acid (MT)

6.325min (+0.018) 22603.8518309 ppb m

response 199059

Ion	Exp%	Act%
105.00	100	100
77.00	78.20	72.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 18.D
Acq On : 19 May 2015 11:34 pm
Operator : 377
Sample : STD TCL 30K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:48 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	87766	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.596	136	353572	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	237081	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	429079	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	439324	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	411881	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	11.854	244	64	1.1695540 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery	= 11.70%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.190	42	137	11.8183198 ppb #	34
5) Aniline	4.972	66	147	15.0168796 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.972	94	385	19.3849565 ppb #	63
9) Benzaldehyde	4.919	105	231276	31431.7749303 ppb	100
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.154	41	198	18.6862555 ppb #	81
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.696	107	3422	214.4648440 ppb #	1
21) Acetophenone	5.696	105	709658	31432.3257608 ppb	99
24) Nitrobenzene	5.896	77	670	36.4293731 ppb #	41
25) Isophorone	6.107	82	56	1.6928488 ppb	61
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	6.337	93	1760	85.0593048 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.343	105	335657m	37546.7154887 ppb	
31) 1,2,4-Trichlorobenzene	6.531	180	1408	91.4093896 ppb	87
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.043	113	164663	32159.5393624 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 18.D
Acq On : 19 May 2015 11:34 pm
Operator : 377
Sample : STD TCL 30K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:48 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
38) 1-Methylnaphthalene	7.537	142	3918	124.5835860 ppb #	41
39) 1,2,4,5-Tetrachloroben...	7.537	216	433887	31921.1406392 ppb	100
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	7.660	196	186	18.1184522 ppb #	60
43) 2,4,5-Trichlorophenol	7.660	196	186	16.9950684 ppb #	65
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	8.172	163	66	1.6885597 ppb #	64
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.848	232	260313	34053.7018759 ppb	99
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.248	77	57	1.2606491 ppb #	1
63) Atrazine	9.778	200	339002	32597.1607586 ppb	97
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	9.931	55	850	82.8655210 ppb #	27
71) Pentachlorophenol	9.913	266	20071	3284.5464573 ppb	95
72) Phenanthrene	10.154	178	107	1.6169283 ppb	70
73) Anthracene	10.154	178	107	1.6803116 ppb	63
74) Carbazole	10.378	167	144	2.5740361 ppb #	61
75) Di-n-butyl phthalate	10.713	149	336	4.0918694 ppb	79
76) 2-nitrodiphenylamine	10.913	167	542647	36100.8381166 ppb	99
77) Fluoranthene	11.466	202	69	0.9358259 ppb #	60
79) Benzidine	11.595	184	978767	38869.4353005 ppb	99
80) Pyrene	0.000		0	N.D.	
82) Benzylbutyl phthalate	12.378	149	1009	25.2471449 ppb #	1
83) 3,3-Dichlorobenzidine	12.972	252	704206	31564.2164290 ppb	98
84) Benzo(a)anthracene	13.036	228	1386	18.7318045 ppb #	1
85) Chrysene	13.036	228	1386	20.8472740 ppb #	63
86) bis(2-Ethylhexyl)phtha...	12.972	149	3549	60.6371700 ppb #	1
87) Di-n-octyl phthalate	13.713	149	1377	13.5413086 ppb	74
89) Benzo(b)fluoranthene	14.372	252	189	2.7503805 ppb #	61
90) Benzo(k)fluoranthene	14.407	252	60	0.9398866 ppb #	14
91) Benzo(a)pyrene	14.948	252	160	2.5448358 ppb	63
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	16.807	278	78	1.4564641 ppb #	49
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 18.D
Acq On : 19 May 2015 11:34 pm
Operator : 377
Sample : STD TCL 30K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:16:48 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

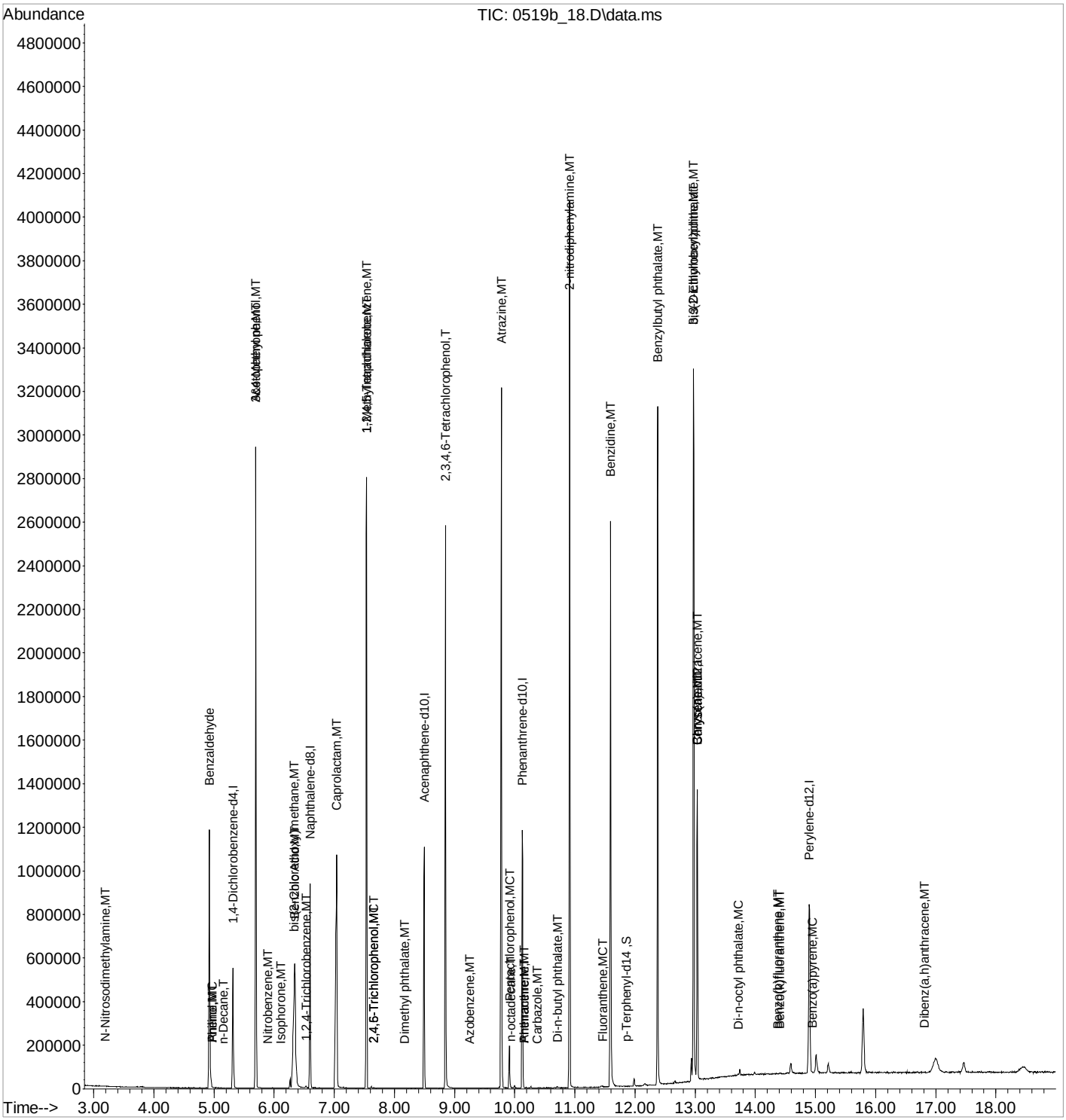
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 18.D
Acq On : 19 May 2015 11:34 pm
Operator : 377
Sample : STD TCL 30K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS23

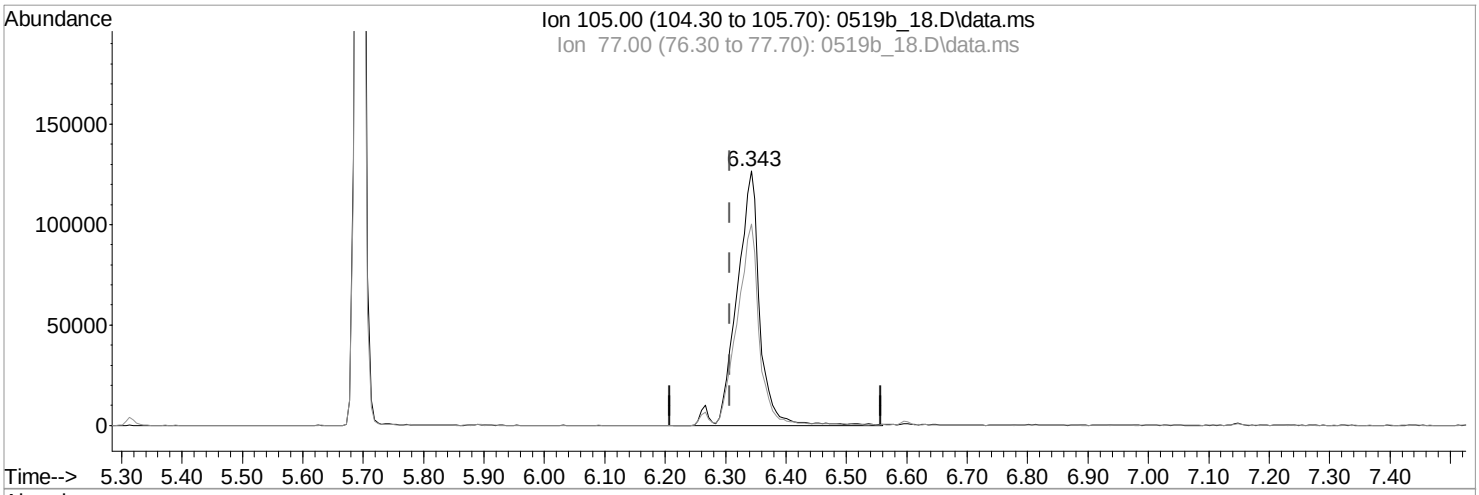
Quant Time: May 20 14:16:48 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

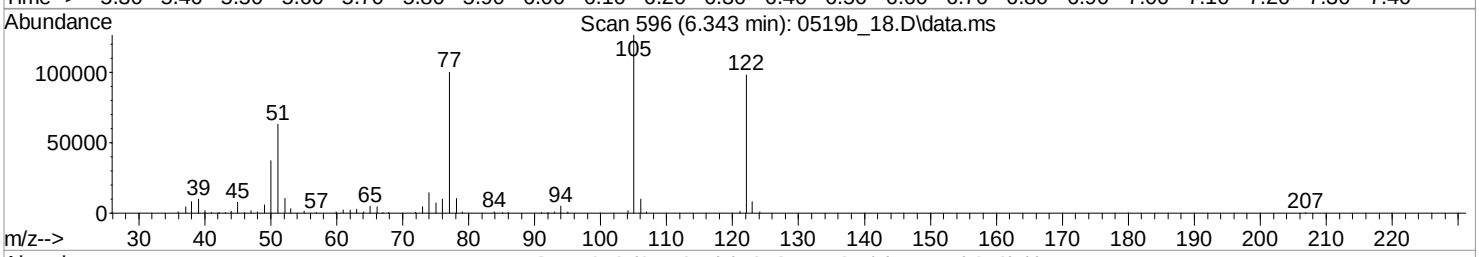


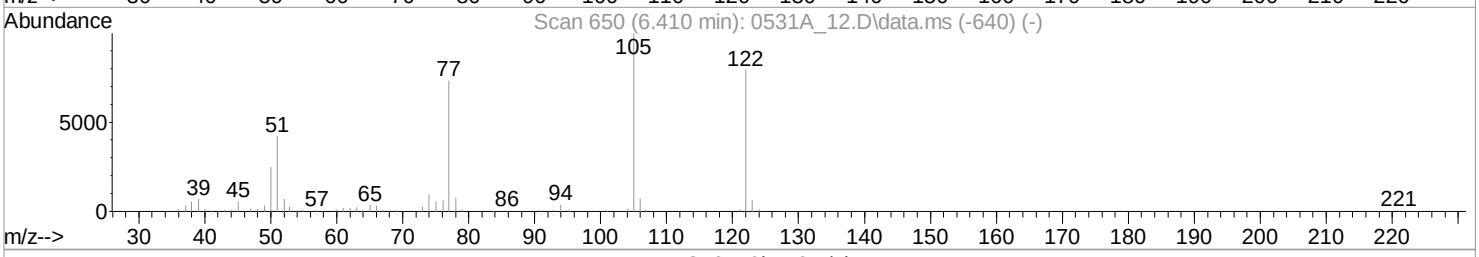
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 18.D
Acq On : 19 May 2015 11:34 pm
Operator : 377
Sample : STD TCL 30K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:40 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_18.D\data.ms

(30) Benzoic Acid (MT)

6.343min (+0.035) 37546.7154887 ppb m

response 335657

Ion	Exp%	Act%
105.00	100	100
77.00	78.20	75.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 19.D
Acq On : 19 May 2015 11:57 pm
Operator : 377
Sample : STD TCL 40K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:06 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	88244	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	356075	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.495	164	242905	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	435116	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	445917	8000.0000000 ppb	0.00
88) Perylene-d12	14.901	264	417707	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.196	42	207	17.7601502 ppb #	34
5) Aniline	4.966	66	276	28.0422312 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.972	94	549	27.4927108 ppb #	37
9) Benzaldehyde	4.919	105	309411	41823.0024685 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.125	41	154	14.4550279 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.695	107	4748	295.9565360 ppb #	1
21) Acetophenone	5.695	105	956713	42145.4027790 ppb	99
24) Nitrobenzene	5.884	77	641	34.6075859 ppb #	48
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	6.354	93	2633	126.3561552 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.354	105	461212m	51228.6868533 ppb	
31) 1,2,4-Trichlorobenzene	6.531	180	1953	125.9003043 ppb	93
32) Naphthalene	6.619	128	68	1.3287492 ppb	70
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.048	113	219831	42632.3343836 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 19.D
Acq On : 19 May 2015 11:57 pm
Operator : 377
Sample : STD TCL 40K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:06 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	7.213	107	56	3.6243824 ppb	#	5
37) 2-Methylnaphthalene	0.000		0	N.D.		
38) 1-Methylnaphthalene	7.537	142	5139	162.2599716 ppb	#	44
39) 1,2,4,5-Tetrachloroben...	7.537	216	580756	42425.9768872 ppb		100
41) Hexachlorocyclopentadiene	0.000		0	N.D.		
42) 2,4,6-Trichlorophenol	7.660	196	248	23.5787147 ppb		91
43) 2,4,5-Trichlorophenol	7.660	196	248	22.1167826 ppb		86
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
48) Acenaphthylene	0.000		0	N.D.		
49) Dimethyl phthalate	0.000		0	N.D.		
50) 2,6-Dinitrotoluene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) Acenaphthene	0.000		0	N.D.		
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 2,3,4,6-Tetrachlorophenol	8.848	232	346413	44230.6121408 ppb		98
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	9.095	166	74	1.7413559 ppb	#	16
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60) Diethyl phthalate	8.936	149	81	1.8866382 ppb		65
61) 4-Nitroaniline	0.000		0	N.D.		
62) Azobenzene	9.242	77	126	2.7198829 ppb	#	1
63) Atrazine	9.778	200	453824	42591.7288680 ppb		97
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D.		
68) 4-Bromophenyl-phenylether	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) n-octadecane	9.907	55	392	37.6854073 ppb	#	6
71) Pentachlorophenol	9.913	266	28470	4307.2572721 ppb		94
72) Phenanthrene	10.207	178	63	0.9388144 ppb		70
73) Anthracene	10.207	178	63	0.9756158 ppb		63
74) Carbazole	10.383	167	217	3.8251113 ppb	#	74
75) Di-n-butyl phthalate	10.713	149	321	3.8549586 ppb		79
76) 2-nitrodiphenylamine	10.913	167	738095	48422.1811372 ppb		98
77) Fluoranthene	11.460	202	106	1.4176990 ppb	#	60
79) Benzidine	11.595	184	1315305	51461.9553344 ppb		100
80) Pyrene	0.000		0	N.D.		
82) Benzylbutyl phthalate	12.430	149	272	6.7053416 ppb		84
83) 3,3-Dichlorobenzidine	12.977	252	952873	42078.5932576 ppb		98
84) Benzo(a)anthracene	13.036	228	1600	21.3042999 ppb	#	1
85) Chrysene	13.036	228	1600	23.7102934 ppb	#	66
86) bis(2-Ethylhexyl)phtha...	12.971	149	6066	102.1095190 ppb	#	26
87) Di-n-octyl phthalate	13.718	149	1234	11.9556379 ppb		74
89) Benzo(b)fluoranthene	14.365	252	260	3.7308203 ppb	#	60
90) Benzo(k)fluoranthene	14.460	252	129	1.9925716 ppb	#	26
91) Benzo(a)pyrene	14.801	252	146	2.2897741 ppb	#	39
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93) Dibenz(a,h)anthracene	16.824	278	55	1.0126699 ppb	#	16
94) Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 19.D
Acq On : 19 May 2015 11:57 pm
Operator : 377
Sample : STD TCL 40K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:06 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

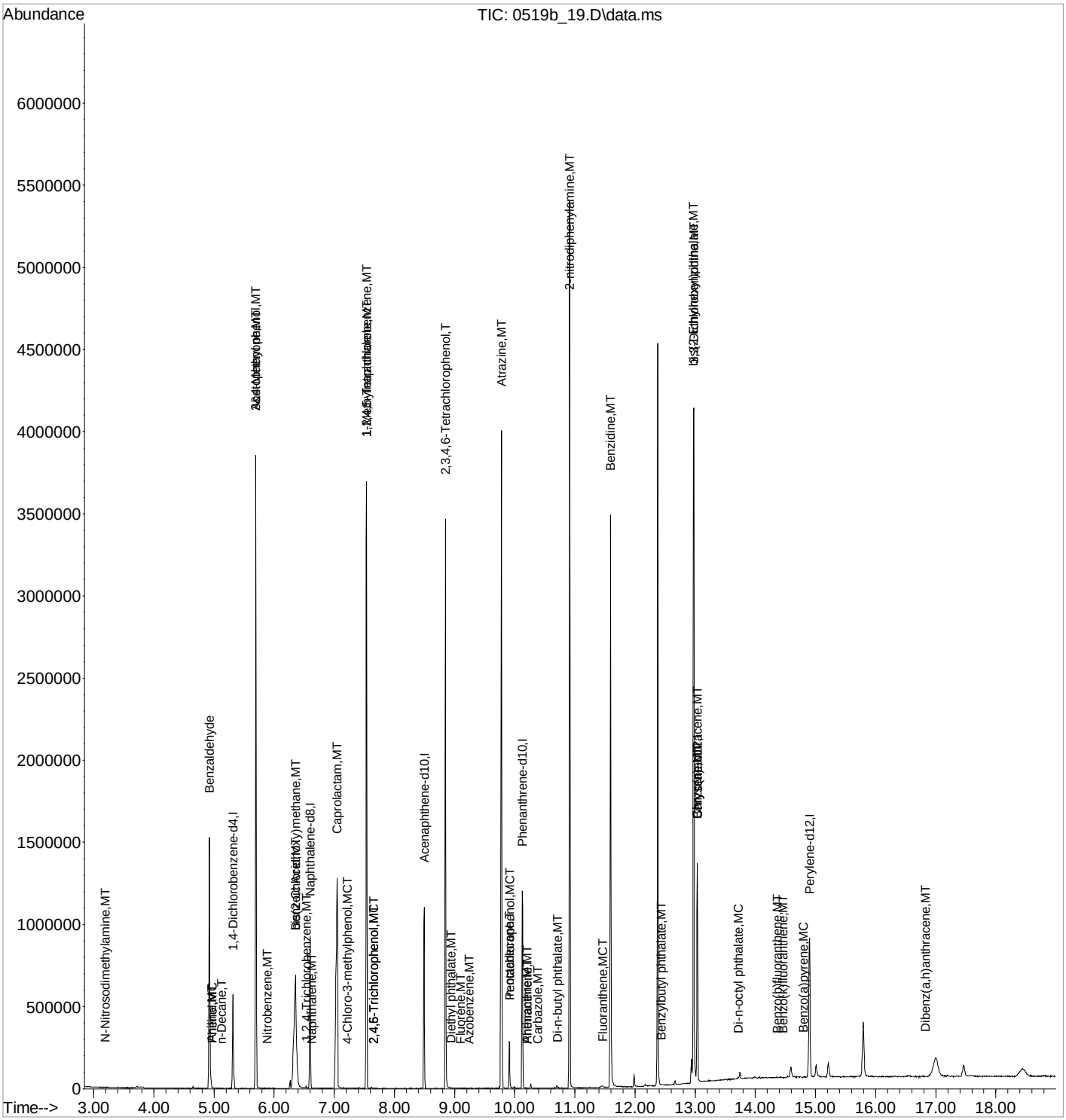
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 19.D
Acq On : 19 May 2015 11:57 pm
Operator : 377
Sample : STD TCL 40K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS23

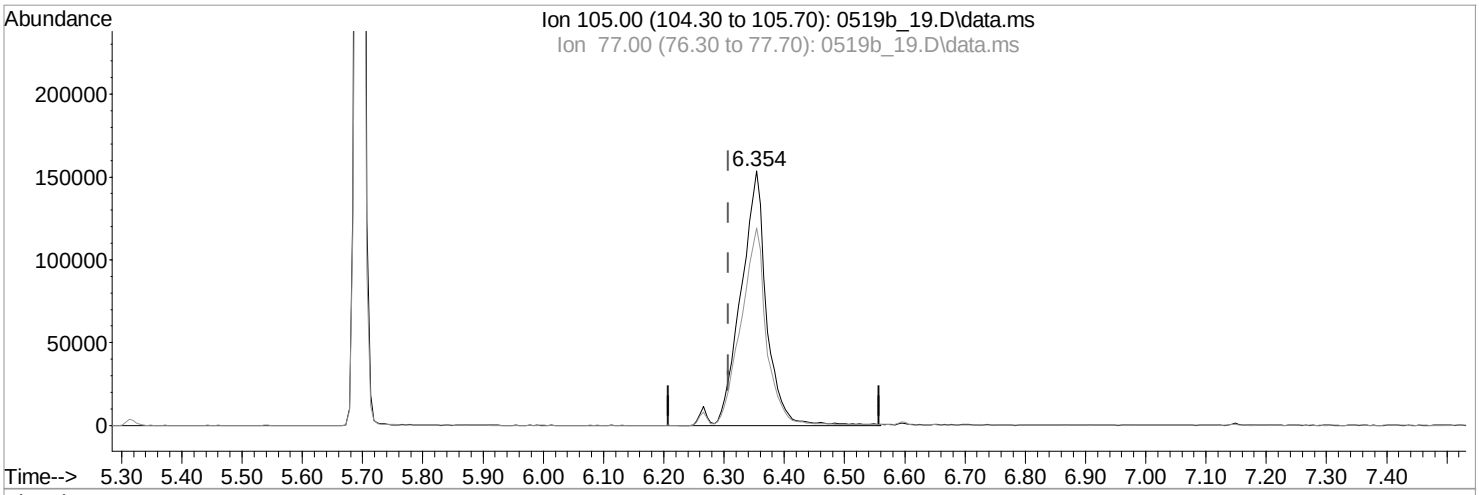
Quant Time: May 20 14:17:06 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

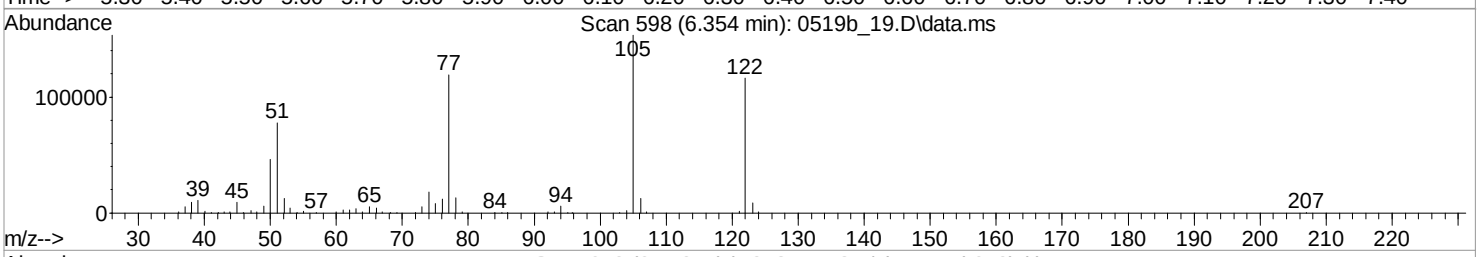


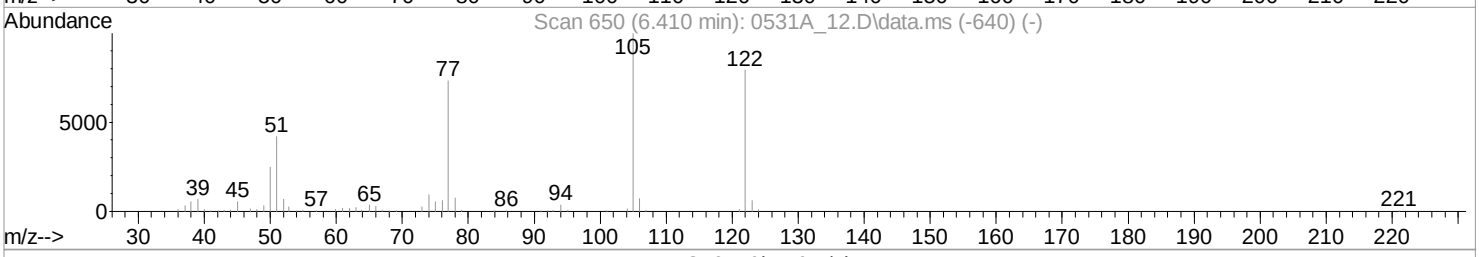
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 19.D
Acq On : 19 May 2015 11:57 pm
Operator : 377
Sample : STD TCL 40K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:12:44 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M







TIC: 0519b_19.D\data.ms

(30) Benzoic Acid (MT)

6.354min (+0.047) 51228.6868533 ppb m

response 461212

Ion	Exp%	Act%
105.00	100	100
77.00	78.20	75.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 20.D
Acq On : 20 May 2015 12:21 am
Operator : 377
Sample : STD TCL 50K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.313	152	82487	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.595	136	346362	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.489	164	240154	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.125	188	431590	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	450924	8000.0000000 ppb	0.00
88) Perylene-d12	14.895	264	416892	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.807	172	74	1.9196738 ppb	0.05
Spiked Amount 10.000	Range 26 - 122		Recovery	= 19.20%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	3.190	42	198	18.1736081 ppb #	34
5) Aniline	4.972	66	264	28.6950567 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	4.972	94	526	28.1793286 ppb #	43
9) Benzaldehyde	4.919	105	362912	52478.3853168 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.143	41	68	6.8282090 ppb #	39
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.431	79	59	4.5643150 ppb #	17
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.695	107	5177	345.2192997 ppb #	1
21) Acetophenone	5.695	105	1147334	54070.2122171 ppb	97
24) Nitrobenzene	5.890	77	648	35.9666117 ppb #	49
25) Isophorone	6.101	82	83	2.5612730 ppb	61
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	6.360	93	3141	154.9618256 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.366	105	571491m	65257.9256747 ppb	
31) 1,2,4-Trichlorobenzene	6.531	180	2507	166.1460859 ppb	94
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	6.654	65	61	8.5358413 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.054	113	263235	52481.3569267 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 20.D
Acq On : 20 May 2015 12:21 am
Operator : 377
Sample : STD TCL 50K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
38) 1-Methylnaphthalene	7.536	142	6934	225.0753113 ppb	#	39
39) 1,2,4,5-Tetrachloroben...	7.536	216	709075	53252.6915927 ppb		99
41) Hexachlorocyclopentadiene	0.000		0	N.D.		
42) 2,4,6-Trichlorophenol	7.660	196	250	24.0411415 ppb		86
43) 2,4,5-Trichlorophenol	7.660	196	250	22.5505379 ppb	#	81
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
48) Acenaphthylene	0.000		0	N.D.		
49) Dimethyl phthalate	0.000		0	N.D.		
50) 2,6-Dinitrotoluene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) Acenaphthene	0.000		0	N.D.		
53) 2,4-Dinitrophenol	0.000		0	N.D.		
54) Dibenzofuran	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 2,3,4,6-Tetrachlorophenol	8.848	232	429563	55475.6328117 ppb		99
57) 4-Nitrophenol	0.000		0	N.D.		
58) Fluorene	9.095	166	55	1.3090769 ppb	#	16
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60) Diethyl phthalate	0.000		0	N.D.		
61) 4-Nitroaniline	0.000		0	N.D.		
62) Azobenzene	9.260	77	76	1.6593572 ppb	#	1
63) Atrazine	9.783	200	569199	54031.6920511 ppb		95
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66) N-Nitrosodiphenylamine	0.000		0	N.D.		
68) 4-Bromophenyl-phenylether	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) n-octadecane	9.977	55	348	33.7287363 ppb	#	46
71) Pentachlorophenol	9.907	266	36554	5363.4885762 ppb		95
72) Phenanthrene	10.148	178	71	1.0666728 ppb		70
73) Anthracene	10.148	178	71	1.1084862 ppb		63
74) Carbazole	10.383	167	169	3.0033416 ppb	#	61
75) Di-n-butyl phthalate	10.713	149	300	3.6321989 ppb		79
76) 2-nitrodiphenylamine	10.913	167	934526	61809.7736516 ppb		98
77) Fluoranthene	11.460	202	128	1.7259245 ppb	#	60
79) Benzidine	11.595	184	1700588	65797.5316146 ppb		99
80) Pyrene	11.724	202	68	0.8631283 ppb		59
82) Benzylbutyl phthalate	12.319	149	152	3.7054954 ppb		75
83) 3,3-Dichlorobenzidine	12.977	252	1185618	51775.1843594 ppb		97
84) Benzo(a)anthracene	13.036	228	1354	17.8285748 ppb	#	1
85) Chrysene	13.036	228	1354	19.8420385 ppb		63
86) bis(2-Ethylhexyl)phtha...	12.977	149	4786	79.6686022 ppb	#	1
87) Di-n-octyl phthalate	13.707	149	906	8.6803347 ppb		74
89) Benzo(b)fluoranthene	14.360	252	350	5.0320763 ppb		75
90) Benzo(k)fluoranthene	14.430	252	131	2.0274199 ppb	#	33
91) Benzo(a)pyrene	14.824	252	359	5.6413420 ppb		60
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93) Dibenz(a,h)anthracene	16.806	278	77	1.4205094 ppb	#	49
94) Benzo(g,h,i)perylene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 20.D
Acq On : 20 May 2015 12:21 am
Operator : 377
Sample : STD TCL 50K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M

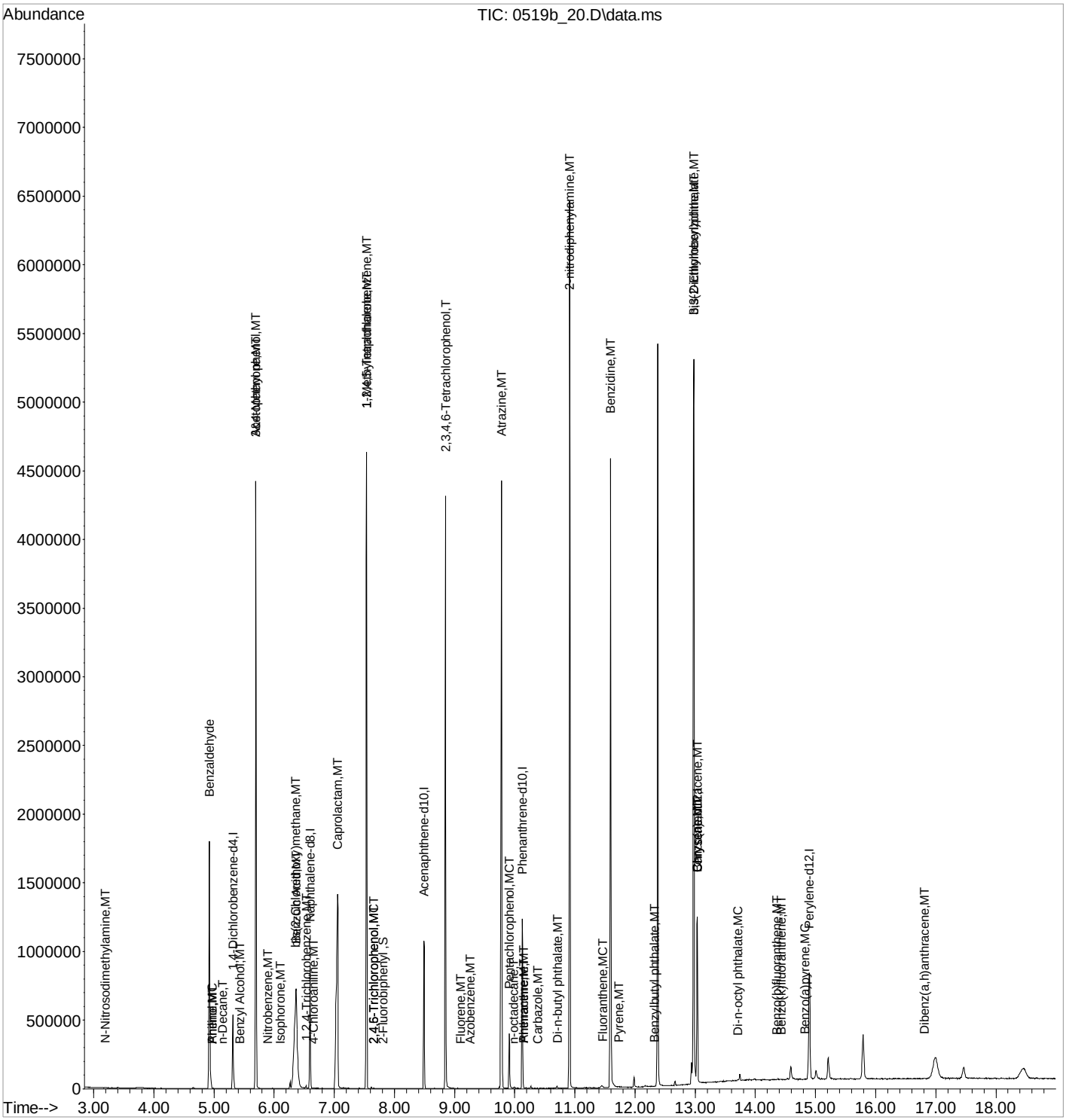
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 20.D
Acq On : 20 May 2015 12:21 am
Operator : 377
Sample : STD TCL 50K1 PPB 15B24611
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS23

Quant Time: May 20 14:17:21 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\051915b\
Data File : 0519b 20.D
Acq On    : 20 May 2015  12:21 am
Operator  : 377
Sample    : STD TCL 50K1 PPB 15B24611
Misc      : 8270 TCL CALIBRATION
ALS Vial  : 20   Sample Multiplier: 1
InstName  : BNAMS23

Quant Time: May 20 14:12:48 2015
Quant Method : C:\msdchem\1\methods\S823E19O.M
Quant Title  : 8270 BNA
QLast Update : Wed May 20 14:11:55 2015
Response via : Initial Calibration
DataAcq Meth:BNAMS23A.M
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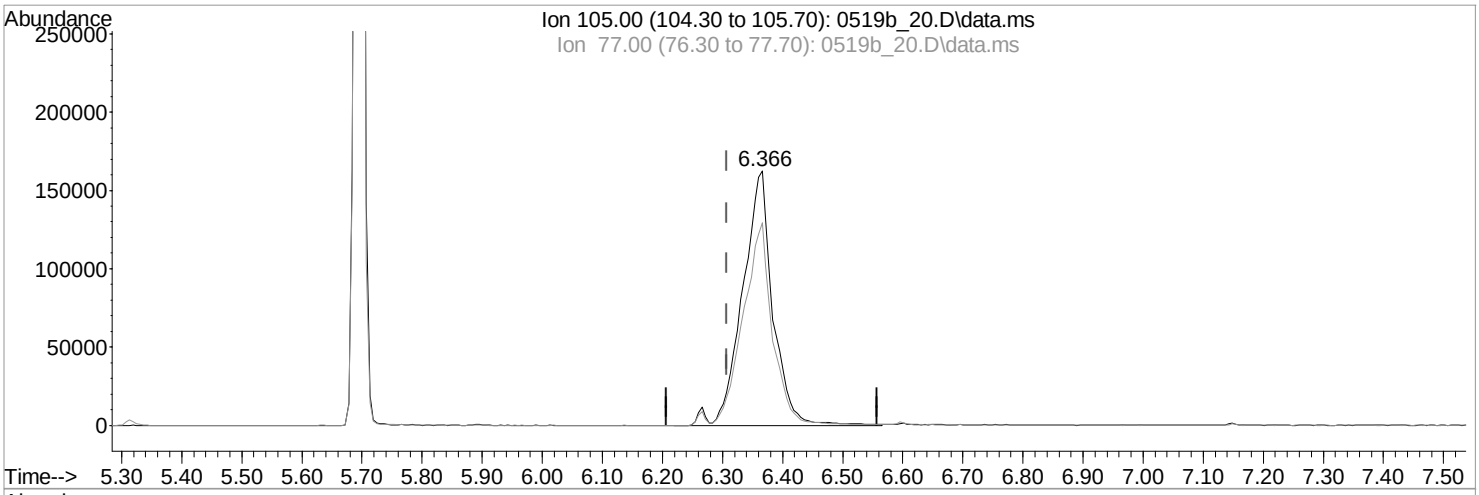

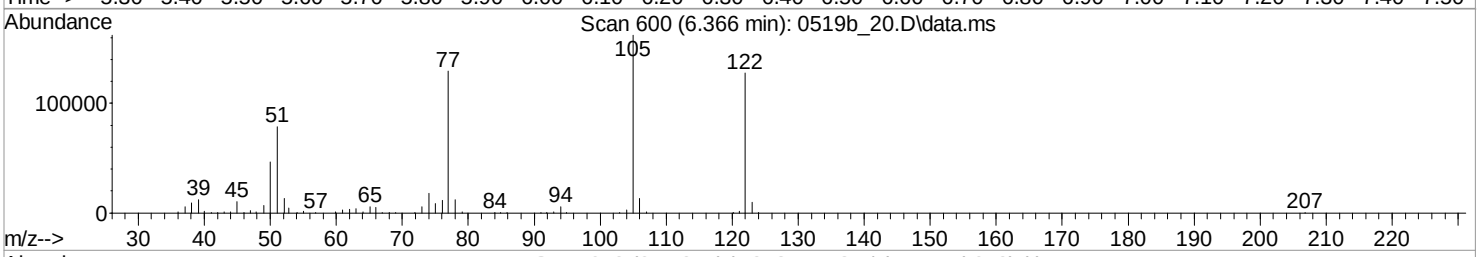

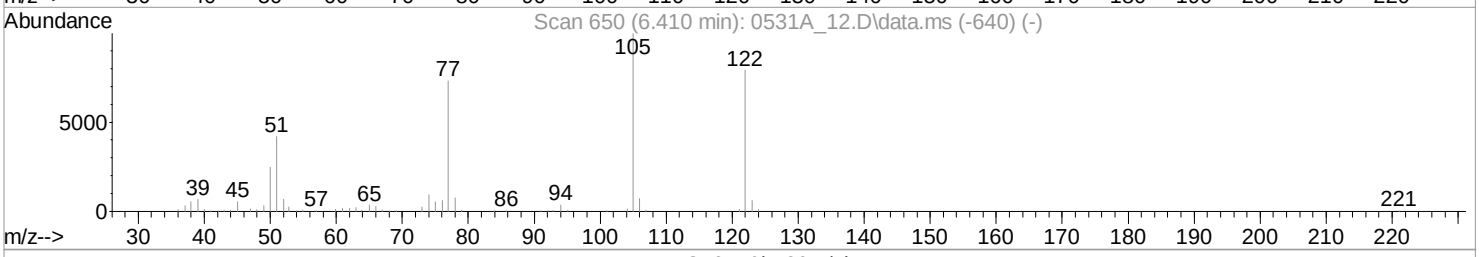

TIC: 0519b_20.D\data.ms

(30) Benzoic Acid (MT)

6.366min (+0.059) 65257.9256747 ppb m

response 571491

Ion	Exp%	Act%
105.00	100	100
77.00	78.20	75.90
0.00	0.00	0.00
0.00	0.00	0.00

Instrument: BNAMS19
Method: S819E27O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
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0527_04.D	200	5/27/2015 7:16:00 PM
0527_05.D	1000	5/27/2015 7:39:00 PM
0527_06.D	2000	5/27/2015 8:03:00 PM
0527_07.D	5000	5/27/2015 8:26:00 PM
0527_02.D	10000	5/27/2015 6:30:00 PM
0527_08.D	20000	5/27/2015 8:49:00 PM
0527_09.D	30000	5/27/2015 9:12:00 PM
0527_10.D	40000	5/27/2015 9:35:00 PM
0527_11.D	50000	5/27/2015 9:59:00 PM
0527_13.D	1K1	5/27/2015 10:45:00 PM
0527_14.D	2K1	5/27/2015 11:08:00 PM
0527_15.D	5K1	5/27/2015 11:32:00 PM
0527_12.D	10K1	5/27/2015 10:22:00 PM
0527_16.D	20K1	5/27/2015 11:55:00 PM
0527_17.D	30K1	5/28/2015 12:18:00 AM
0527_18.D	40K1	5/28/2015 12:41:00 AM
0527_19.D	50K1	5/28/2015 1:04:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Allen Fuller
Date Released : 5/28/2015 5:09:21 PM

Run ID : 052715
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0527_00	INSTBLK	S819E27O						1	1	05/27/15 1736	"instrument blank"
2	0527_01	TUNE SVMS 50 PPM 15B11028	TUNEC							1	05/27/15 1759	
3	0527_02	MSTD SVMS 10K PPB 15D30944	S819E27O						1	1	05/27/15 1830	"8270 PRIMARY CALIBRATION"
4	0527_03	STD SVMS 40 PPB 15D30944	S819E27O						1	1	05/27/15 1853	"8270 PRIMARY CALIBRATION"
5	0527_03 MRL	MRL SVMS 40 PPB 15D30944	S819E27O						1	1	05/27/15 1853	"8270 PRIMARY CALIBRATION"
6	0527_04	STD SVMS 200 PPB 15D30944	S819E27O						1	1	05/27/15 1916	"8270 PRIMARY CALIBRATION"
7	0527_04 MRL	MRL SVMS 200 PPB 15D30944	S819E27O						1	1	05/27/15 1916	"8270 PRIMARY CALIBRATION"
8	0527_05	STD SVMS 1K PPB 15D30944	S819E27O						1	1	05/27/15 1939	"8270 PRIMARY CALIBRATION"
9	0527_06	STD SVMS 2K PPB 15D30944	S819E27O						1	1	05/27/15 2003	"8270 PRIMARY CALIBRATION"
10	0527_06 MRL	MRL SVMS 2K PPB 15D30944	S819E27O						1	1	05/27/15 2003	"8270 PRIMARY CALIBRATION"
11	0527_07	STD SVMS 5K PPB 15D30944	S819E27O						1	1	05/27/15 2026	"8270 PRIMARY CALIBRATION"
12	0527_08	STD SVMS 20K PPB 15D30944	S819E27O						1	1	05/27/15 2049	"8270 PRIMARY CALIBRATION"
13	0527_09	STD SVMS 30K PPB 15D30944	S819E27O						1	1	05/27/15 2112	"8270 PRIMARY CALIBRATION"
14	0527_10	STD SVMS 40K PPB 15D30944	S819E27O						1	1	05/27/15 2135	"8270 PRIMARY CALIBRATION"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Allen Fuller
Date Released : 5/28/2015 5:09:21 PM

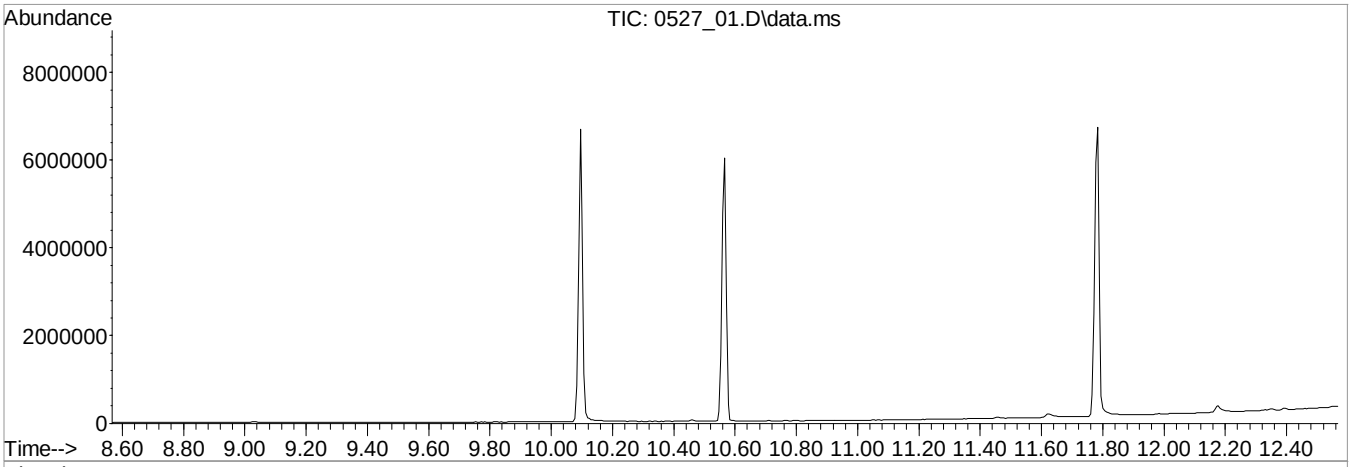
Run ID : 052715
Signature : _____

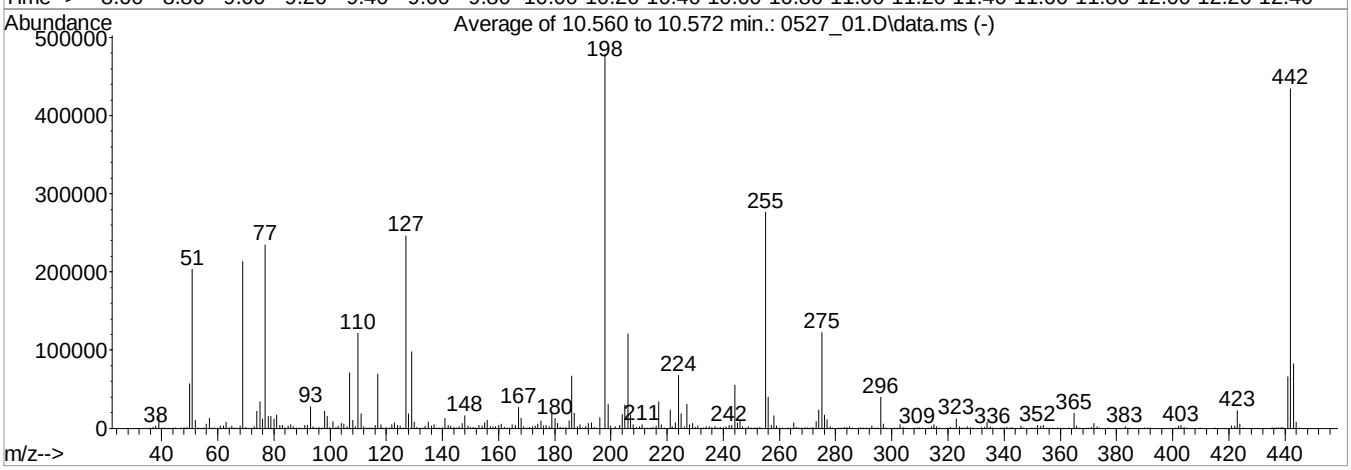
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0527_11	STD SVMS 50K PPB 15D30944	S819E27O						1	1	05/27/15 2159	"8270 PRIMARY CALIBRATION"
16	0527_12	MSTD TCL 10K1 PPB 15D30944	S819E27O						1	1	05/27/15 2222	"8270 TCL CALIBRATION"
17	0527_13	STD TCL 1K1 PPB 15D30944	S819E27O						1	1	05/27/15 2245	"8270 TCL CALIBRATION"
18	0527_14	STD TCL 2K1 PPB 15D30944	S819E27O						1	1	05/27/15 2308	"8270 TCL CALIBRATION"
19	0527_14 MRL	MRL TCL 2K1 PPB 15D30944	S819E27O						1	1	05/27/15 2308	"8270 TCL CALIBRATION"
20	0527_15	STD TCL 5K1 PPB 15D30944	S819E27O						1	1	05/27/15 2332	"8270 TCL CALIBRATION"
21	0527_16	STD TCL 20K1 PPB 15D30944	S819E27O						1	1	05/27/15 2355	"8270 TCL CALIBRATION"
22	0527_17	STD TCL 30K1 PPB 15D30944	S819E27O						1	1	05/28/15 0018	"8270 TCL CALIBRATION"
23	0527_18	STD TCL 40K1 PPB 15D30944	S819E27O						1	1	05/28/15 0041	"8270 TCL CALIBRATION"
24	0527_19	STD TCL 50K1 PPB 15D30944	S819E27O						1	1	05/28/15 0104	"8270 TCL CALIBRATION"
25	0527_20	SSCV SVMS 10K PPB 15D30945	S819E27O						1	1	05/28/15 0128	"8270 sscv"

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Tue May 21 10:58:22 2013





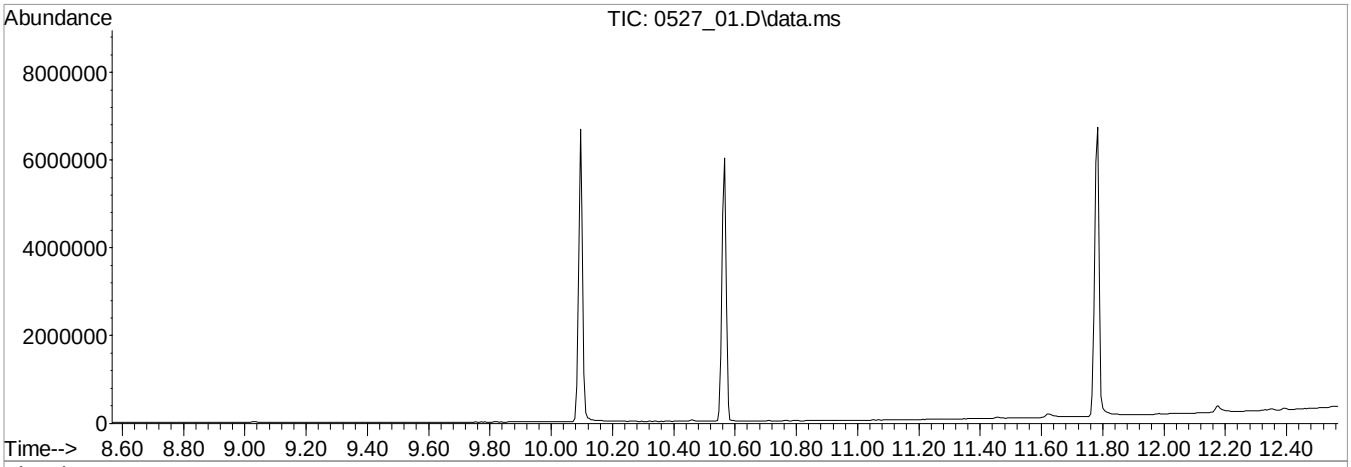
Spectrum Information: Average of 10.560 to 10.572 min.

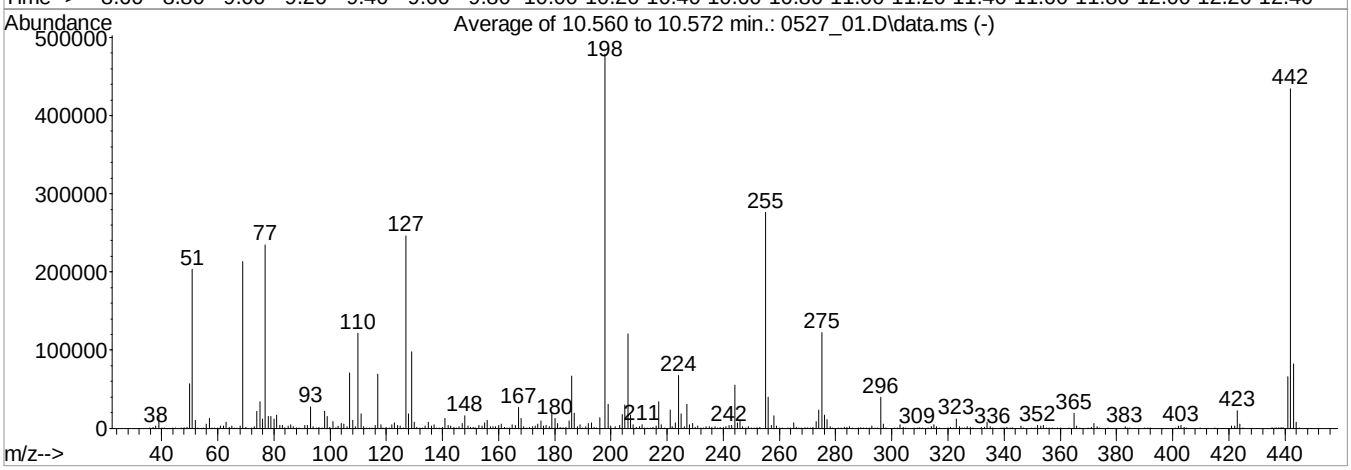
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.5	203473	PASS
68	69	0.00	2	1.5	3140	PASS
69	198	0.00	100	44.6	213617	PASS
70	69	0.00	2	0.4	908	PASS
127	198	40	60	51.3	245709	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	478805	PASS
199	198	5	9	6.5	30995	PASS
275	198	10	30	25.6	122781	PASS
365	198	1	100	4.0	19165	PASS
441	443	0.01	100	79.8	65552	PASS
442	198	40	100	90.8	434624	PASS
443	442	17	23	18.9	82139	PASS

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TUNED.M
Title :
Last Update : Tue May 21 11:00:42 2013





AutoFind: Scans 1313, 1314, 1315; Background Corrected with Scan 1308

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.5	203473	PASS
68	69	0.00	2	1.5	3140	PASS
70	69	0.00	2	0.4	908	PASS
127	198	10	80	51.3	245709	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	478805	PASS
199	198	5	9	6.5	30995	PASS
275	198	10	60	25.6	122781	PASS
365	198	1	100	4.0	19165	PASS
441	442	0.01	24	15.1	65552	PASS
442	198	50	100	90.8	434624	PASS
443	442	15	24	18.9	82139	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 16:12:33 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

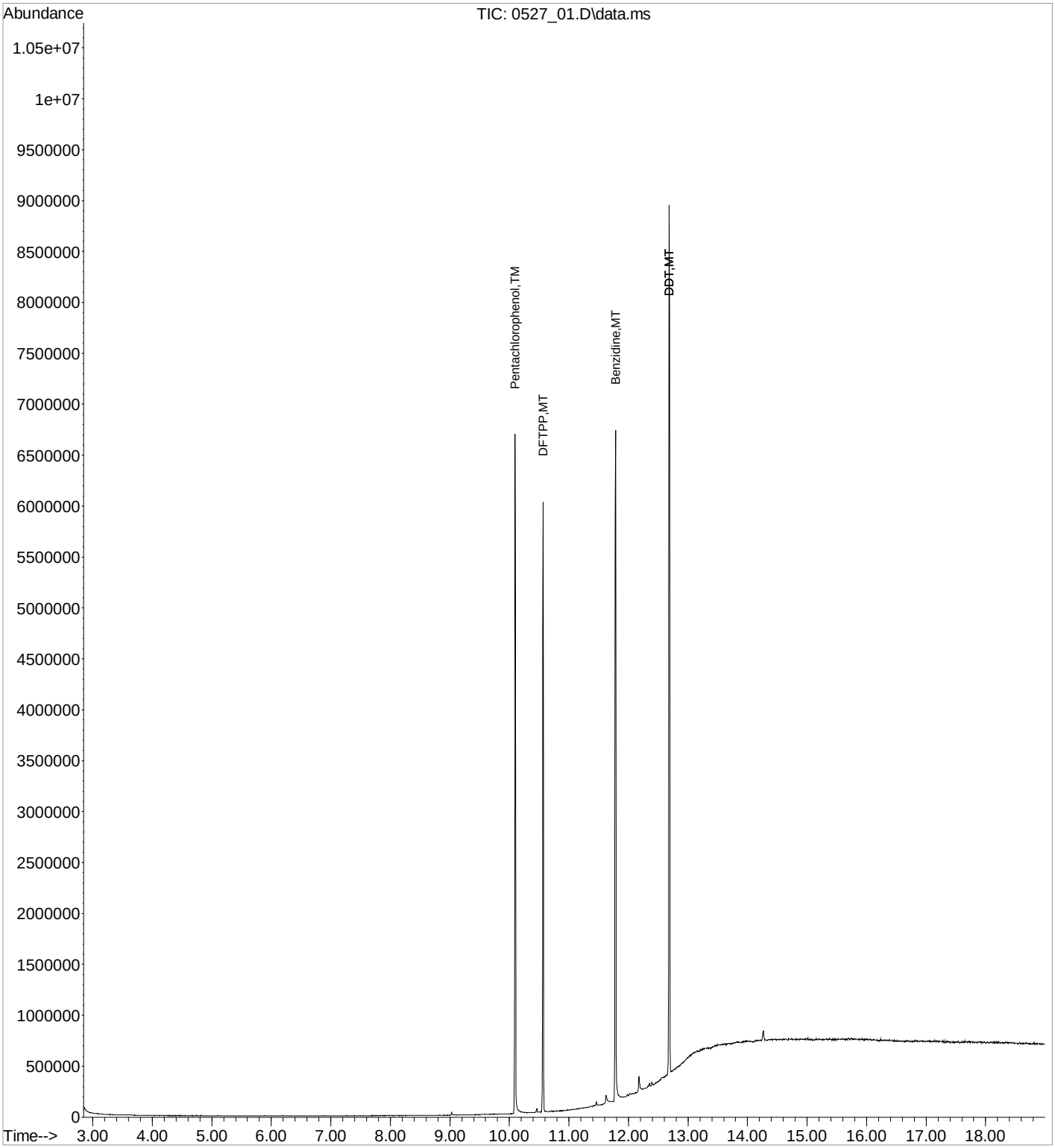
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	10.095	264	452938	77.6211433	ug/mL	100
2) DFTPP	10.566	198	584776	79.0359596	ug/mL	100
3) Benzidine	11.783	184	2617152	109.0405489	ug/mL	100
4) DDT	12.683	TIC	8601723	639.2376908	ug/ml	100
5) DDT	12.683	235	1635668	121.5547903	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

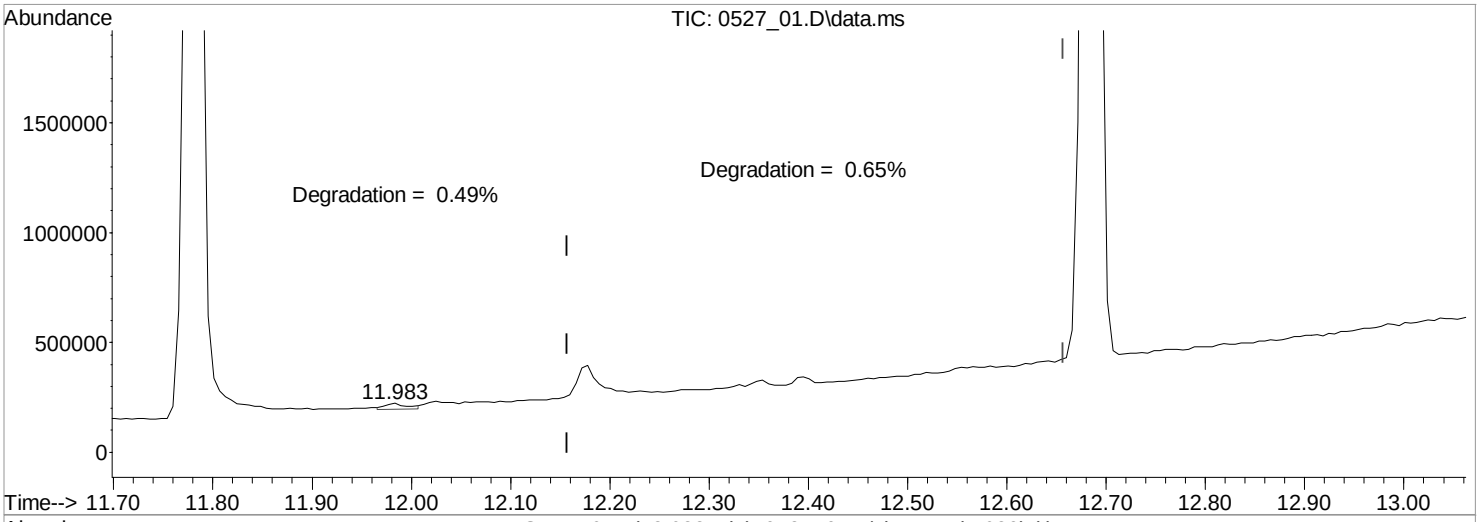
Quant Time: May 28 16:12:33 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

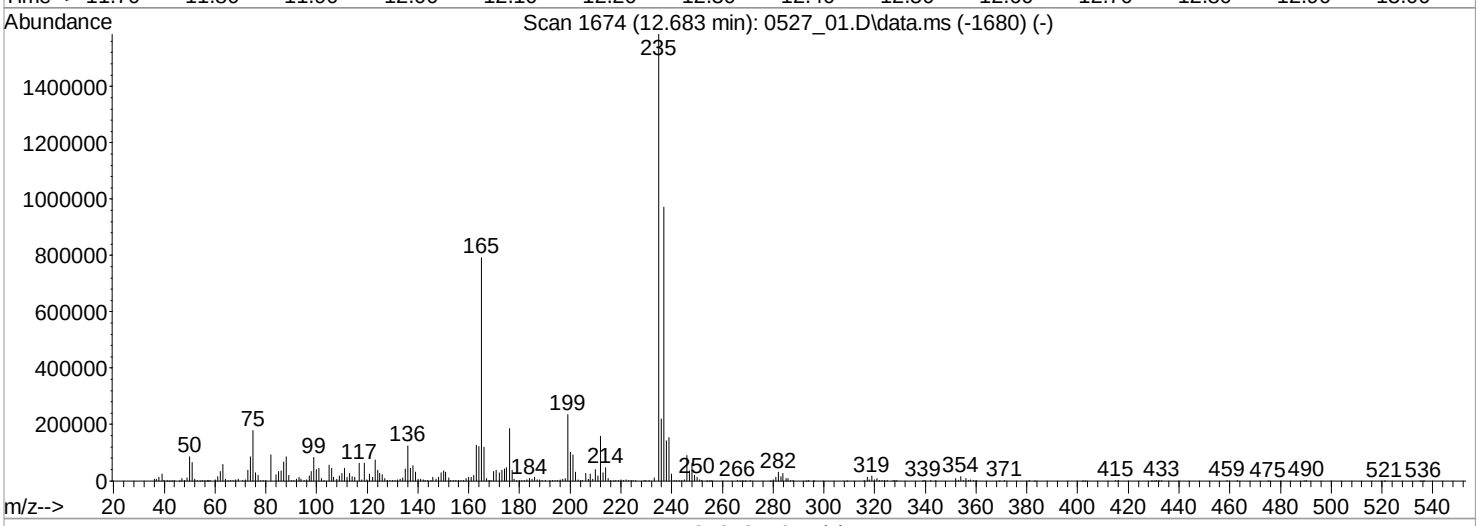


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 16:12:33 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0527_01.D\data.ms

(4) DDT (MT)

12.683min (+0.027) 639.2376908 ug/ml

Qvalue = 100

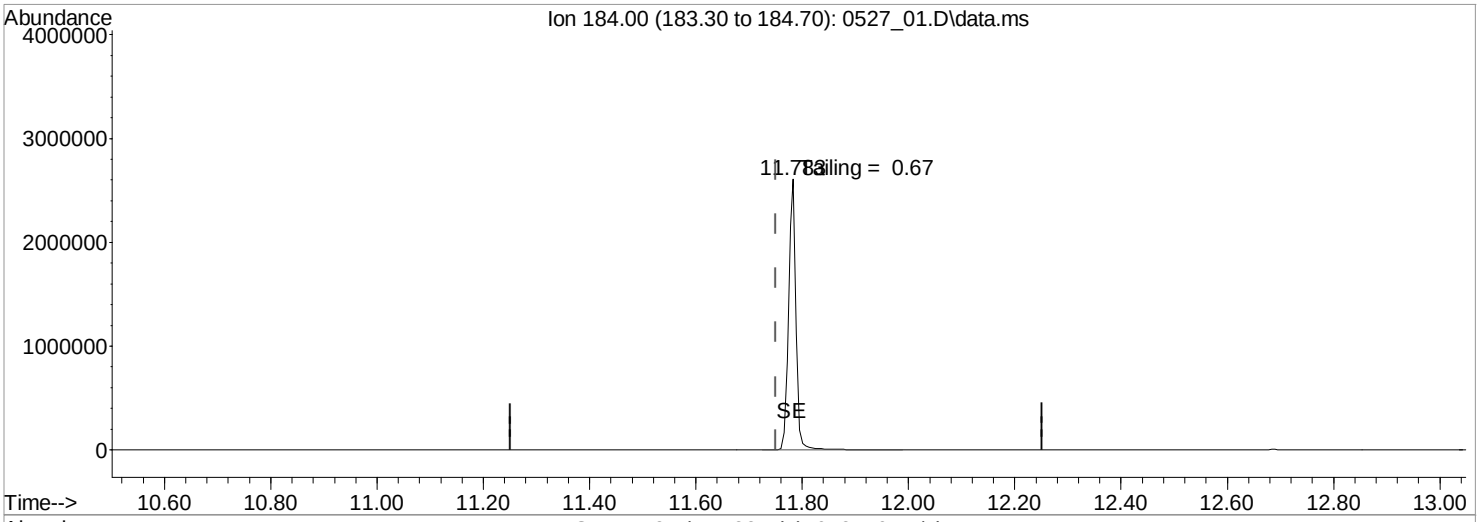
response 8601723

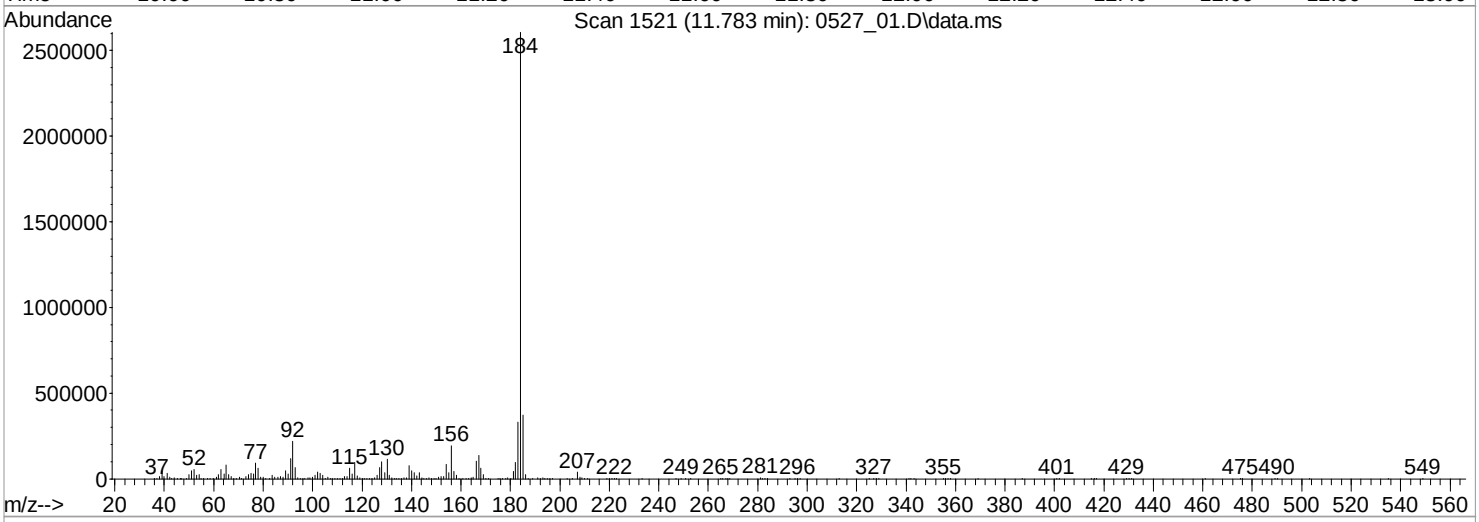
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 16:12:33 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0527_01.D\data.ms

(3) Benzidine (MT)

11.783min (+0.032) 109.0405489 ug/mL

Qvalue = 100

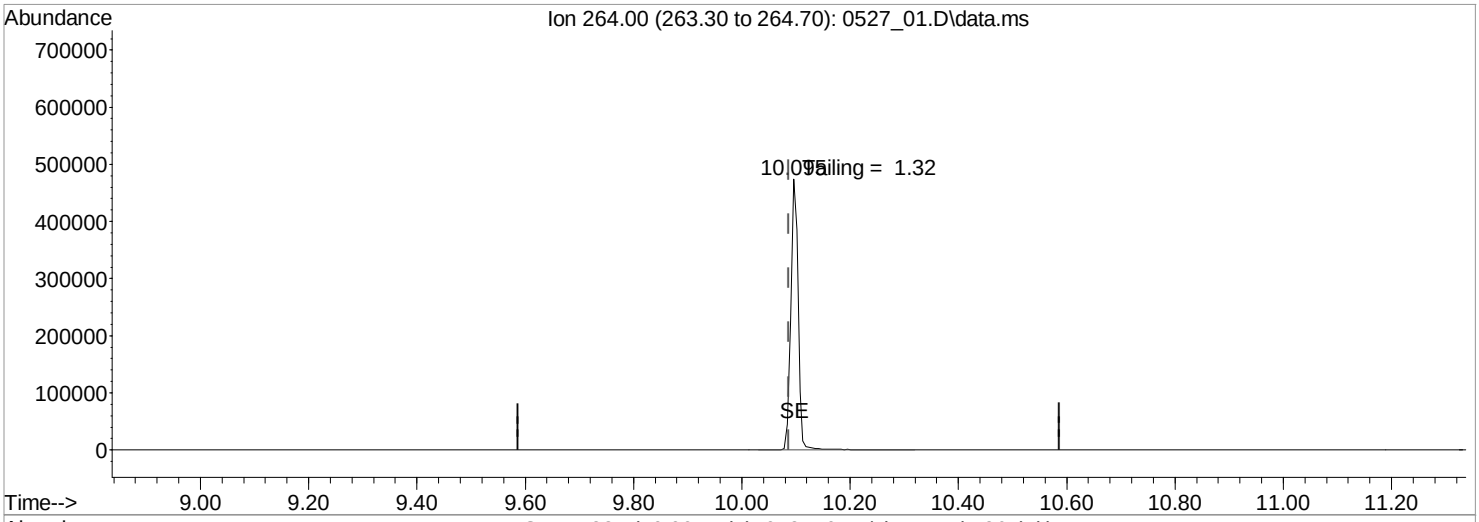
response 2617152

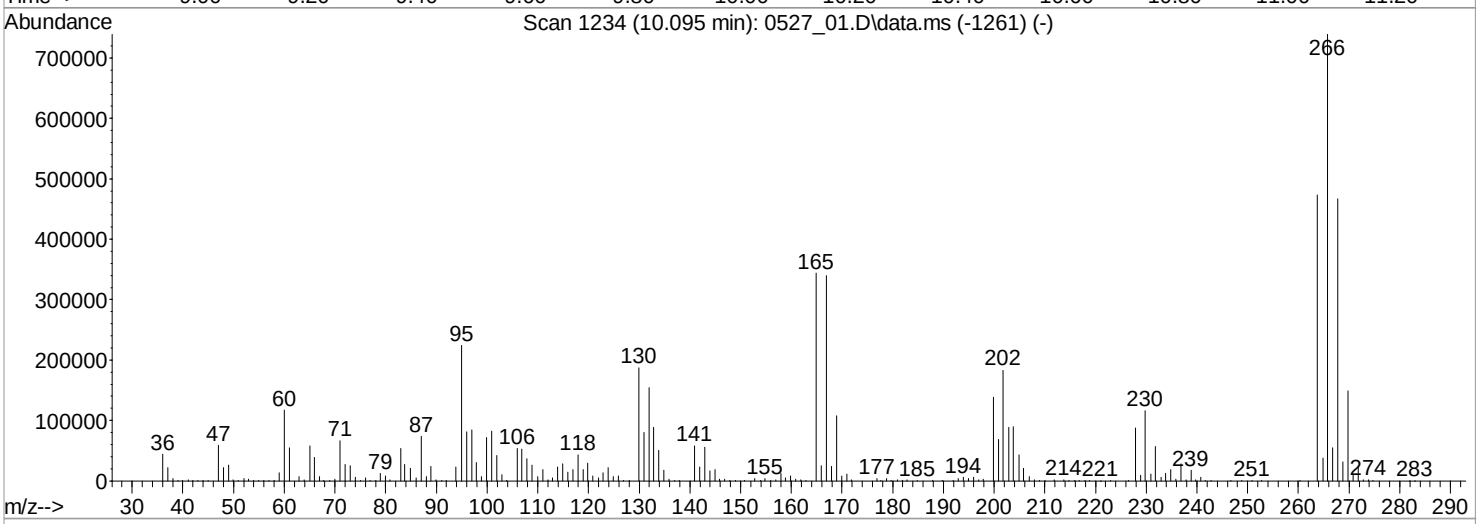
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 01.D
Acq On : 27 May 2015 5:59 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 15B11028
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 16:12:33 2015
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 0527_01.D\data.ms

(1) Pentachlorophenol (TM)

10.095min (+0.009) 77.6211433 ug/mL

Qvalue = 100

response 452938

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

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
1,4-Dichlorobenzene-d4																							
Pyridine		1.562	1.501	1.578	1.441	1.412	1.454	1.446	1.455	1.407									1.473064	4.18	0.042	1	
N-Nitrosodimethylamine		0.768	0.821	0.905	0.752	0.726	0.73	0.72	0.725	0.715									0.762453	8.27	0.083	1	
2-Fluorophenol		1.065	1.055	1.127	1.055	1.037	1.083	1.094	1.092	1.058									1.073973	2.54	0.025	1	
Aniline		0.593	0.699	0.756	0.688	0.7	0.714	0.708	0.712	0.687									0.695206	6.24	0.062	1	
bis(2-Chloroethyl)ether		0.974	0.956	1.04	0.928	0.924	0.943	0.928	0.928	0.904									0.947315	4.25	0.042	1	0.7
Phenol-d5		1.476	1.4	1.568	1.413	1.404	1.468	1.452	1.447	1.425									1.450469	3.57	0.036	1	
Phenol		1.482	1.479	1.619	1.463	1.455	1.499	1.487	1.487	1.444									1.490622	3.43	0.034	1	0.8
Benzaldehyde											0.584	0.594	0.617	0.593	0.636	0.646	0.646	0.661	0.622082	4.74	0.047	1	0.01
2-Chlorophenol		1.38	1.282	1.41	1.3	1.259	1.331	1.321	1.327	1.288									1.321969	3.62	0.036	1	0.8
n-Decane		1.011	0.853	0.898	0.836	0.844	0.826	0.816	0.798	0.767									0.849898	8.29	0.083	1	
1,3-Dichlorobenzene		1.55	1.526	1.664	1.492	1.459	1.528	1.523	1.525	1.48									1.527464	3.82	0.038	1	
1,4-Dichlorobenzene		1.617	1.553	1.709	1.538	1.486	1.559	1.563	1.554	1.501									1.56423	4.22	0.042	1	
Benzyl Alcohol		1.178	1.076	1.161	1.056	1.077	1.125	1.11	1.126	1.093									1.111455	3.64	0.036	1	
1,2-Dichlorobenzene		1.506	1.501	1.621	1.492	1.438	1.504	1.495	1.503	1.449									1.50108	3.43	0.034	1	
bis(2-Chloroisopropyl)ether		0.5	0.454	0.469	0.43	0.414	0.427	0.426	0.422	0.409									0.438897	6.81	0.068	1	
2-Methylphenol		1.21	1.136	1.196	1.119	1.115	1.146	1.135	1.146	1.103									1.145129	3.14	0.031	1	0.7
Hexachloroethane		0.671	0.647	0.702	0.644	0.642	0.673	0.675	0.674	0.652									0.664559	2.97	0.03	1	0.3
N-Nitrosodi-n-propylamine		0.886	0.763	0.86	0.804	0.804	0.841	0.839	0.853	0.826									0.83074	4.39	0.044	1	0.5
3&4-Methyl phenol		1.359	1.323	1.402	1.296	1.301	1.336	1.331	1.332	1.298									1.330872	2.55	0.026	1	0.6
Acetophenone											1.784	1.721	1.813	1.732	1.835	1.888	1.873	1.874	1.814995	3.57	0.036	1	0.01
Naphthalene-d8																							

PDF Generated On: 05/28/2015 - By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Nitrobenzene-d5		0.357	0.349	0.377	0.362	0.376	0.384	0.385	0.389	0.372									0.372106	3.7	0.037	1	
Nitrobenzene		0.378	0.377	0.396	0.376	0.38	0.38	0.382	0.382	0.368									0.380019	1.96	0.02	1	0.2
Isophorone		0.621	0.628	0.679	0.659	0.676	0.689	0.688	0.69	0.657									0.665182	3.94	0.039	1	0.4
2-Nitrophenol		0.154	0.169	0.19	0.187	0.189	0.204	0.208	0.209	0.201									0.190164	9.71	0.097	1	0.1
2,4-Dimethylphenol		0.376	0.365	0.384	0.357	0.36	0.358	0.356	0.355	0.338									0.361016	3.67	0.037	1	0.2
bis(2-Chlorethoxy)methane		0.418	0.419	0.457	0.426	0.421	0.423	0.426	0.425	0.409									0.42505	3.12	0.031	1	0.3
2,4-Dichlorophenol		0.331	0.316	0.345	0.325	0.321	0.332	0.335	0.338	0.327									0.330101	2.67	0.027	1	0.2
Benzoic Acid											0.14	0.146	0.166	0.189	0.209	0.235	0.244	0.254	0.19776	22.49	0.999	3	
1,2,4-Trichlorobenzene		0.401	0.39	0.419	0.379	0.367	0.383	0.382	0.387	0.372									0.386745	4.02	0.04	1	
Naphthalene	1.276	1.174	1.135	1.192	1.09	1.067	1.074	1.068	1.065	1.007									1.114754	7.11	0.071	1	0.7
4-Chloroaniline		0.136	0.14	0.15	0.138	0.14	0.141	0.14	0.14	0.135									0.140064	3.09	0.031	1	0.01
Hexachloro-1,3-butadiene		0.229	0.236	0.252	0.233	0.227	0.241	0.241	0.243	0.235									0.237369	3.23	0.032	1	0.01
Caprolactam											0.087	0.091	0.097	0.103	0.108	0.116	0.116	0.119	0.104693	11.4	0.114	1	0.01
4-Chloro-3-methylphenol		0.323	0.315	0.338	0.317	0.321	0.327	0.33	0.332	0.322									0.325134	2.31	0.023	1	0.2
2-Methylnaphthalene	0.819	0.825	0.798	0.866	0.787	0.781	0.798	0.797	0.79	0.756									0.801664	3.71	0.037	1	0.4
1-Methylnaphthalene	0.734	0.734	0.719	0.774	0.712	0.693	0.709	0.709	0.711	0.675									0.716859	3.7	0.037	1	
1,2,4,5-Tetrachlorobenzene											0.393	0.383	0.384	0.381	0.378	0.391	0.384	0.39	0.385373	1.37	0.014	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene		0.37	0.379	0.42	0.409	0.406	0.447	0.456	0.464	0.452									0.4224	8.15	0.081	1	0.05
2,4,6-Trichlorophenol		0.355	0.361	0.383	0.366	0.367	0.386	0.391	0.397	0.382									0.376526	3.86	0.039	1	0.2
2,4,5-Trichlorophenol		0.341	0.392	0.413	0.407	0.389	0.419	0.417	0.424	0.413									0.401688	6.4	0.064	1	0.2
2-Fluorobiphenyl		1.375	1.324	1.414	1.308	1.251	1.3	1.277	1.278	1.212									1.304276	4.72	0.047	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Biphenyl	1.42	1.453	1.451	1.528	1.432	1.379	1.41	1.389	1.391	1.313									1.416422	3.99	0.04	1	0.01
2-Chloronaphthalene	1.282	1.203	1.185	1.226	1.146	1.104	1.136	1.131	1.129	1.078									1.161986	5.3	0.053	1	0.8
2-Nitroaniline		0.268	0.274	0.316	0.323	0.336	0.369	0.37	0.38	0.364									0.33321	12.49	0.125	1	0.01
Acenaphthylene	1.656	1.656	1.759	1.906	1.811	1.776	1.799	1.784	1.773	1.689									1.760928	4.36	0.044	1	0.9
Dimethyl phthalate		1.259	1.313	1.37	1.318	1.271	1.305	1.282	1.277	1.22									1.290496	3.28	0.033	1	0.01
2,6-Dinitrotoluene		0.219	0.255	0.294	0.293	0.292	0.313	0.311	0.315	0.305									0.288687	10.98	0.11	1	0.2
3-Nitroaniline		0.203	0.266	0.303	0.305	0.306	0.321	0.318	0.316	0.308									0.294066	12.79	0.128	1	0.01
Acenaphthene	1.059	1.234	1.211	1.269	1.197	1.149	1.165	1.154	1.135	1.084									1.1657	5.57	0.056	1	0.9
2,4-Dinitrophenol			0.099	0.129	0.152	0.166	0.197	0.207	0.213	0.211									0.171897	24.76	0.997	0	0.01
Dibenzofuran	1.682	1.77	1.749	1.828	1.69	1.64	1.666	1.642	1.63	1.562									1.685844	4.6	0.046	1	0.8
2,4-Dinitrotoluene		0.263	0.324	0.374	0.384	0.389	0.423	0.418	0.42	0.408									0.378052	14.08	0.141	1	0.2
2,3,4,6-Tetrachlorophenol											0.251	0.258	0.274	0.293	0.298	0.31	0.308	0.313	0.288002	8.42	0.084	1	0.01
4-Nitrophenol		0.167	0.214	0.25	0.257	0.258	0.269	0.268	0.271	0.265									0.24654	13.98	0.14	1	0.01
Fluorene	1.474	1.395	1.43	1.527	1.419	1.37	1.413	1.385	1.364	1.303									1.408153	4.39	0.044	1	0.9
4-Chlorophenyl-phenylether		0.72	0.715	0.756	0.698	0.673	0.696	0.692	0.7	0.673									0.702714	3.65	0.036	1	0.4
Diethyl phthalate		1.235	1.299	1.414	1.343	1.299	1.324	1.283	1.266	1.217									1.297833	4.54	0.045	1	0.01
4-Nitroaniline		0.27	0.273	0.32	0.32	0.292	0.271	0.247	0.246	0.244									0.275859	10.75	0.108	1	0.01
Azobenzene		1.214	1.253	1.409	1.382	1.381	1.363	1.345	1.336	1.264									1.32743	5.1	0.051	1	
Atrazine											0.319	0.305	0.333	0.348	0.36	0.378	0.37	0.371	0.347913	7.7	0.077	1	0.01
Phenanthrene-d10																							
4,6-Dinitro-2-methylphenol			0.075	0.102	0.112	0.117	0.138	0.141	0.148	0.147									0.122482	21.18	0.997	0	0.01
N-Nitrosodiphenylamine		0.617	0.605	0.67	0.636	0.596	0.631	0.611	0.617	0.595									0.61994	3.79	0.038	1	0.01

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
2,4,6-Tribromophenol		0.096	0.107	0.12	0.117	0.115	0.13	0.135	0.142	0.141									0.122554	12.74	0.127	1	
4-Bromophenyl-phenylether		0.218	0.215	0.23	0.217	0.209	0.227	0.227	0.238	0.228									0.223101	4	0.04	1	0.1
Hexachlorobenzene		0.267	0.258	0.267	0.251	0.238	0.26	0.265	0.277	0.27									0.261486	4.37	0.044	1	0.1
n-octadecane		0.117	0.107	0.116	0.108	0.11	0.111	0.11	0.112	0.108									0.111099	3.19	0.032	1	
Pentachlorophenol		0.12	0.128	0.145	0.143	0.144	0.164	0.168	0.176	0.173									0.151278	13.21	0.132	1	0.05
Phenanthrene	1.286	1.242	1.181	1.24	1.151	1.094	1.132	1.096	1.118	1.044									1.158433	6.69	0.067	1	0.7
Anthracene	1.043	1.055	1.12	1.188	1.138	1.093	1.133	1.128	1.136	1.065									1.109949	4.07	0.041	1	0.7
Carbazole	1.052	1.047	1.039	1.119	1.078	1.025	1.041	0.988	0.941	0.85									1.017998	7.46	0.075	1	0.01
Di-n-butyl phthalate		1.141	1.169	1.263	1.232	1.235	1.273	1.244	1.224	1.143									1.21357	4.12	0.041	1	0.01
2-nitrodiphenylamine											0.155	0.169	0.199	0.24	0.251	0.278	0.273	0.286	0.231456	22.12	0.997	0	
Fluoranthene	1.303	1.216	1.258	1.346	1.291	1.24	1.282	1.255	1.233	1.152									1.257604	4.22	0.042	1	0.6
Chrysene-d12																							
Benzidine											0.382	0.42	0.467	0.529	0.533	0.566			0.482885	14.91	0.149	1	
Pyrene	1.253	1.178	1.21	1.287	1.212	1.129	1.121	1.088	1.042	0.967									1.148557	8.62	0.086	1	0.6
p-Terphenyl-d14		0.919	0.905	0.975	0.917	0.852	0.866	0.855	0.85	0.82									0.884288	5.46	0.055	1	
Benzylbutyl phthalate		0.49	0.486	0.528	0.515	0.529	0.531	0.523	0.538	0.512									0.516814	3.49	0.035	1	0.01
3,3-Dichlorobenzidine											0.403	0.404	0.414	0.427	0.378	0.393	0.428	0.414	0.407715	4.13	0.041	1	0.01
Benzo(a)anthracene	1.83	1.305	1.253	1.313	1.253	1.175	1.193	1.18	1.183	1.12									1.28057	15.82	0.999	0	0.8
Chrysene	1.209	1.232	1.216	1.271	1.193	1.152	1.166	1.134	1.128	1.056									1.175693	5.25	0.052	1	0.7
bis(2-Ethylhexyl)phthalate		0.904	0.737	0.812	0.785	0.8	0.777	0.758	0.773	0.725									0.785759	6.67	0.067	1	0.01
Di-n-octyl phthalate		1.216	1.24	1.359	1.336	1.363	1.347	1.337	1.34	1.263									1.311441	4.25	0.042	1	0.01
Perylene-d12																							

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS19	Review Method	:	8270D	Released By	:	Allen Fuller
Method	:	S819E27O	Review Protocol	:	SW846	Released On	:	5/28/2015 5:09:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Benzo(b)fluoranthene	1.3	1.241	1.259	1.357	1.277	1.2	1.27	1.244	1.291	1.274									1.271299	3.26	0.033	1	0.7
Benzo(k)fluoranthene	1.356	1.205	1.172	1.271	1.197	1.188	1.201	1.224	1.173	1.142									1.212975	5.02	0.05	1	0.7
Benzo(a)pyrene	1.294	1.103	1.143	1.277	1.186	1.164	1.204	1.217	1.222	1.157									1.196677	4.95	0.05	1	0.7
Indeno(1,2,3-cd)pyrene	1.306	1.325	1.388	1.479	1.429	1.381	1.418	1.39	1.365	1.263									1.374318	4.6	0.046	1	0.5
Dibenz(a,h)anthracene	1.19	1.115	1.166	1.265	1.218	1.186	1.218	1.2	1.174	1.092									1.182264	4.25	0.043	1	0.4
Benzo(g,h,i)perylene	1.233	1.142	1.175	1.254	1.199	1.154	1.166	1.13	1.08	0.972									1.150659	6.97	0.07	1	0.5

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: EPA	Released On	: 5/28/2015 5:08:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.562	1.501	1.578	1.441	1.412	1.454	1.446	1.455	1.407									1.473064	4.18	0.042	1
N-Nitrosodimethylamine		0.768	0.821	0.905	0.752	0.726	0.73	0.72	0.725	0.715									0.762453	8.27	0.083	1
2-Fluorophenol		1.065	1.055	1.127	1.055	1.037	1.083	1.094	1.092	1.058									1.073973	2.54	0.025	1
Aniline		0.593	0.699	0.756	0.688	0.7	0.714	0.708	0.712	0.687									0.695206	6.24	0.062	1
bis(2-Chloroethyl)ether		0.974	0.956	1.04	0.928	0.924	0.943	0.928	0.928	0.904									0.947315	4.25	0.042	1
Phenol-d5		1.476	1.4	1.568	1.413	1.404	1.468	1.452	1.447	1.425									1.450469	3.57	0.036	1
Phenol		1.482	1.479	1.619	1.463	1.455	1.499	1.487	1.487	1.444									1.490622	3.43	0.034	1
Benzaldehyde											0.584	0.594	0.617	0.593	0.636	0.646	0.646	0.661	0.622082	4.74	0.047	1
2-Chlorophenol		1.38	1.282	1.41	1.3	1.259	1.331	1.321	1.327	1.288									1.321969	3.62	0.036	1
n-Decane		1.011	0.853	0.898	0.836	0.844	0.826	0.816	0.798	0.767									0.849898	8.29	0.083	1
1,3-Dichlorobenzene		1.55	1.526	1.664	1.492	1.459	1.528	1.523	1.525	1.48									1.527464	3.82	0.038	1
1,4-Dichlorobenzene		1.617	1.553	1.709	1.538	1.486	1.559	1.563	1.554	1.501									1.56423	4.22	0.042	1
Benzyl Alcohol		1.178	1.076	1.161	1.056	1.077	1.125	1.11	1.126	1.093									1.111455	3.64	0.036	1
1,2-Dichlorobenzene		1.506	1.501	1.621	1.492	1.438	1.504	1.495	1.503	1.449									1.50108	3.43	0.034	1
bis(2-Chloroisopropyl)ether		0.5	0.454	0.469	0.43	0.414	0.427	0.426	0.422	0.409									0.438897	6.81	0.068	1
2-Methylphenol		1.21	1.136	1.196	1.119	1.115	1.146	1.135	1.146	1.103									1.145129	3.14	0.031	1
Hexachloroethane		0.671	0.647	0.702	0.644	0.642	0.673	0.675	0.674	0.652									0.664559	2.97	0.03	1
N-Nitrosodi-n-propylamine		0.886	0.763	0.86	0.804	0.804	0.841	0.839	0.853	0.826									0.83074	4.39	0.044	1
3&4-Methyl phenol		1.359	1.323	1.402	1.296	1.301	1.336	1.331	1.332	1.298									1.330872	2.55	0.026	1
Acetophenone											1.784	1.721	1.813	1.732	1.835	1.888	1.873	1.874	1.814995	3.57	0.036	1
Naphthalene-d8																						

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: EPA	Released On	: 5/28/2015 5:08:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5		0.357	0.349	0.377	0.362	0.376	0.384	0.385	0.389	0.372									0.372106	3.7	0.037	1
Nitrobenzene		0.378	0.377	0.396	0.376	0.38	0.38	0.382	0.382	0.368									0.380019	1.96	0.02	1
Isophorone		0.621	0.628	0.679	0.659	0.676	0.689	0.688	0.69	0.657									0.665182	3.94	0.039	1
2-Nitrophenol		0.154	0.169	0.19	0.187	0.189	0.204	0.208	0.209	0.201									0.190164	9.71	0.097	1
2,4-Dimethylphenol		0.376	0.365	0.384	0.357	0.36	0.358	0.356	0.355	0.338									0.361016	3.67	0.037	1
bis(2-Chlorethoxy)methane		0.418	0.419	0.457	0.426	0.421	0.423	0.426	0.425	0.409									0.42505	3.12	0.031	1
2,4-Dichlorophenol		0.331	0.316	0.345	0.325	0.321	0.332	0.335	0.338	0.327									0.330101	2.67	0.027	1
Benzoic Acid											0.14	0.146	0.166	0.189	0.209	0.235	0.244	0.254	0.19776	22.49	0.999	3
1,2,4-Trichlorobenzene		0.401	0.39	0.419	0.379	0.367	0.383	0.382	0.387	0.372									0.386745	4.02	0.04	1
Naphthalene	1.276	1.174	1.135	1.192	1.09	1.067	1.074	1.068	1.065	1.007									1.114754	7.11	0.071	1
4-Chloroaniline		0.136	0.14	0.15	0.138	0.14	0.141	0.14	0.14	0.135									0.140064	3.09	0.031	1
Hexachloro-1,3-butadiene		0.229	0.236	0.252	0.233	0.227	0.241	0.241	0.243	0.235									0.237369	3.23	0.032	1
Caprolactam											0.087	0.091	0.097	0.103	0.108	0.116	0.116	0.119	0.104693	11.4	0.114	1
4-Chloro-3-methylphenol		0.323	0.315	0.338	0.317	0.321	0.327	0.33	0.332	0.322									0.325134	2.31	0.023	1
2-Methylnaphthalene	0.819	0.825	0.798	0.866	0.787	0.781	0.798	0.797	0.79	0.756									0.801664	3.71	0.037	1
1-Methylnaphthalene	0.734	0.734	0.719	0.774	0.712	0.693	0.709	0.709	0.711	0.675									0.716859	3.7	0.037	1
1,2,4,5-Tetrachlorobenzene											0.393	0.383	0.384	0.381	0.378	0.391	0.384	0.39	0.385373	1.37	0.014	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene		0.37	0.379	0.42	0.409	0.406	0.447	0.456	0.464	0.452									0.4224	8.15	0.081	1
2,4,6-Trichlorophenol		0.355	0.361	0.383	0.366	0.367	0.386	0.391	0.397	0.382									0.376526	3.86	0.039	1
2,4,5-Trichlorophenol		0.341	0.392	0.413	0.407	0.389	0.419	0.417	0.424	0.413									0.401688	6.4	0.064	1
2-Fluorobiphenyl		1.375	1.324	1.414	1.308	1.251	1.3	1.277	1.278	1.212									1.304276	4.72	0.047	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: EPA	Released On	: 5/28/2015 5:08:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.42	1.453	1.451	1.528	1.432	1.379	1.41	1.389	1.391	1.313									1.416422	3.99	0.04	1
2-Chloronaphthalene	1.282	1.203	1.185	1.226	1.146	1.104	1.136	1.131	1.129	1.078									1.161986	5.3	0.053	1
2-Nitroaniline		0.268	0.274	0.316	0.323	0.336	0.369	0.37	0.38	0.364									0.33321	12.49	0.125	1
Acenaphthylene	1.656	1.656	1.759	1.906	1.811	1.776	1.799	1.784	1.773	1.689									1.760928	4.36	0.044	1
Dimethyl phthalate		1.259	1.313	1.37	1.318	1.271	1.305	1.282	1.277	1.22									1.290496	3.28	0.033	1
2,6-Dinitrotoluene		0.219	0.255	0.294	0.293	0.292	0.313	0.311	0.315	0.305									0.288687	10.98	0.11	1
3-Nitroaniline		0.203	0.266	0.303	0.305	0.306	0.321	0.318	0.316	0.308									0.294066	12.79	0.128	1
Acenaphthene	1.059	1.234	1.211	1.269	1.197	1.149	1.165	1.154	1.135	1.084									1.1657	5.57	0.056	1
2,4-Dinitrophenol			0.099	0.129	0.152	0.166	0.197	0.207	0.213	0.211									0.171897	24.76	0.997	0
Dibenzofuran	1.682	1.77	1.749	1.828	1.69	1.64	1.666	1.642	1.63	1.562									1.685844	4.6	0.046	1
2,4-Dinitrotoluene		0.263	0.324	0.374	0.384	0.389	0.423	0.418	0.42	0.408									0.378052	14.08	0.141	1
2,3,4,6-Tetrachlorophenol											0.251	0.258	0.274	0.293	0.298	0.31	0.308	0.313	0.288002	8.42	0.084	1
4-Nitrophenol		0.167	0.214	0.25	0.257	0.258	0.269	0.268	0.271	0.265									0.24654	13.98	0.14	1
Fluorene	1.474	1.395	1.43	1.527	1.419	1.37	1.413	1.385	1.364	1.303									1.408153	4.39	0.044	1
4-Chlorophenyl-phenylether		0.72	0.715	0.756	0.698	0.673	0.696	0.692	0.7	0.673									0.702714	3.65	0.036	1
Diethyl phthalate		1.235	1.299	1.414	1.343	1.299	1.324	1.283	1.266	1.217									1.297833	4.54	0.045	1
4-Nitroaniline		0.27	0.273	0.32	0.32	0.292	0.271	0.247	0.246	0.244									0.275859	10.75	0.108	1
Azobenzene		1.214	1.253	1.409	1.382	1.381	1.363	1.345	1.336	1.264									1.32743	5.1	0.051	1
Atrazine											0.319	0.305	0.333	0.348	0.36	0.378	0.37	0.371	0.347913	7.7	0.077	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.075	0.102	0.112	0.117	0.138	0.141	0.148	0.147									0.122482	21.18	0.997	0
N-Nitrosodiphenylamine		0.617	0.605	0.67	0.636	0.596	0.631	0.611	0.617	0.595									0.61994	3.79	0.038	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: EPA	Released On	: 5/28/2015 5:08:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.096	0.107	0.12	0.117	0.115	0.13	0.135	0.142	0.141									0.122554	12.74	0.127	1
4-Bromophenyl-phenylether		0.218	0.215	0.23	0.217	0.209	0.227	0.227	0.238	0.228									0.223101	4	0.04	1
Hexachlorobenzene		0.267	0.258	0.267	0.251	0.238	0.26	0.265	0.277	0.27									0.261486	4.37	0.044	1
n-octadecane		0.117	0.107	0.116	0.108	0.11	0.111	0.11	0.112	0.108									0.111099	3.19	0.032	1
Pentachlorophenol		0.12	0.128	0.145	0.143	0.144	0.164	0.168	0.176	0.173									0.151278	13.21	0.132	1
Phenanthrene	1.286	1.242	1.181	1.24	1.151	1.094	1.132	1.096	1.118	1.044									1.158433	6.69	0.067	1
Anthracene	1.043	1.055	1.12	1.188	1.138	1.093	1.133	1.128	1.136	1.065									1.109949	4.07	0.041	1
Carbazole	1.052	1.047	1.039	1.119	1.078	1.025	1.041	0.988	0.941	0.85									1.017998	7.46	0.075	1
Di-n-butyl phthalate		1.141	1.169	1.263	1.232	1.235	1.273	1.244	1.224	1.143									1.21357	4.12	0.041	1
2-nitrodiphenylamine											0.155	0.169	0.199	0.24	0.251	0.278	0.273	0.286	0.231456	22.12	0.997	0
Fluoranthene	1.303	1.216	1.258	1.346	1.291	1.24	1.282	1.255	1.233	1.152									1.257604	4.22	0.042	1
Chrysene-d12																						
Benzidine											0.382	0.42	0.467	0.529	0.533	0.566			0.482885	14.91	0.149	1
Pyrene	1.253	1.178	1.21	1.287	1.212	1.129	1.121	1.088	1.042	0.967									1.148557	8.62	0.086	1
p-Terphenyl-d14		0.919	0.905	0.975	0.917	0.852	0.866	0.855	0.85	0.82									0.884288	5.46	0.055	1
Benzylbutyl phthalate		0.49	0.486	0.528	0.515	0.529	0.531	0.523	0.538	0.512									0.516814	3.49	0.035	1
3,3-Dichlorobenzidine											0.403	0.404	0.414	0.427	0.378	0.393	0.428	0.414	0.407715	4.13	0.041	1
Benzo(a)anthracene	1.83	1.305	1.253	1.313	1.253	1.175	1.193	1.18	1.183	1.12									1.28057	15.82	0.999	0
Chrysene	1.209	1.232	1.216	1.271	1.193	1.152	1.166	1.134	1.128	1.056									1.175693	5.25	0.052	1
bis(2-Ethylhexyl)phthalate		0.904	0.737	0.812	0.785	0.8	0.777	0.758	0.773	0.725									0.785759	6.67	0.067	1
Di-n-octyl phthalate		1.216	1.24	1.359	1.336	1.363	1.347	1.337	1.34	1.263									1.311441	4.25	0.042	1
Perylene-d12																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: EPA	Released On	: 5/28/2015 5:08:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.3	1.241	1.259	1.357	1.277	1.2	1.27	1.244	1.291	1.274									1.271299	3.26	0.033	1
Benzo(k)fluoranthene	1.356	1.205	1.172	1.271	1.197	1.188	1.201	1.224	1.173	1.142									1.212975	5.02	0.05	1
Benzo(a)pyrene	1.294	1.103	1.143	1.277	1.186	1.164	1.204	1.217	1.222	1.157									1.196677	4.95	0.05	1
Indeno(1,2,3-cd)pyrene	1.306	1.325	1.388	1.479	1.429	1.381	1.418	1.39	1.365	1.263									1.374318	4.6	0.046	1
Dibenz(a,h)anthracene	1.19	1.115	1.166	1.265	1.218	1.186	1.218	1.2	1.174	1.092									1.182264	4.25	0.043	1
Benzo(g,h,i)perylene	1.233	1.142	1.175	1.254	1.199	1.154	1.166	1.13	1.08	0.972									1.150659	6.97	0.07	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.562	1.501	1.578	1.441	1.412	1.454	1.446	1.455	1.407									1.473064	4.18	0.042	1
N-Nitrosodimethylamine		0.768	0.821	0.905	0.752	0.726	0.73	0.72	0.725	0.715									0.762453	8.27	0.083	1
2-Fluorophenol		1.065	1.055	1.127	1.055	1.037	1.083	1.094	1.092	1.058									1.073973	2.54	0.025	1
Aniline		0.593	0.699	0.756	0.688	0.7	0.714	0.708	0.712	0.687									0.695206	6.24	0.062	1
bis(2-Chloroethyl)ether		0.974	0.956	1.04	0.928	0.924	0.943	0.928	0.928	0.904									0.947315	4.25	0.042	1
Phenol-d5		1.476	1.4	1.568	1.413	1.404	1.468	1.452	1.447	1.425									1.450469	3.57	0.036	1
Phenol		1.482	1.479	1.619	1.463	1.455	1.499	1.487	1.487	1.444									1.490622	3.43	0.034	1
Benzaldehyde											0.584	0.594	0.617	0.593	0.636	0.646	0.646	0.661	0.622082	4.74	0.047	1
2-Chlorophenol		1.38	1.282	1.41	1.3	1.259	1.331	1.321	1.327	1.288									1.321969	3.62	0.036	1
n-Decane		1.011	0.853	0.898	0.836	0.844	0.826	0.816	0.798	0.767									0.849898	8.29	0.083	1
1,3-Dichlorobenzene		1.55	1.526	1.664	1.492	1.459	1.528	1.523	1.525	1.48									1.527464	3.82	0.038	1
1,4-Dichlorobenzene		1.617	1.553	1.709	1.538	1.486	1.559	1.563	1.554	1.501									1.56423	4.22	0.042	1
Benzyl Alcohol		1.178	1.076	1.161	1.056	1.077	1.125	1.11	1.126	1.093									1.111455	3.64	0.036	1
1,2-Dichlorobenzene		1.506	1.501	1.621	1.492	1.438	1.504	1.495	1.503	1.449									1.50108	3.43	0.034	1
bis(2-Chloroisopropyl)ether		0.5	0.454	0.469	0.43	0.414	0.427	0.426	0.422	0.409									0.438897	6.81	0.068	1
2-Methylphenol		1.21	1.136	1.196	1.119	1.115	1.146	1.135	1.146	1.103									1.145129	3.14	0.031	1
Hexachloroethane		0.671	0.647	0.702	0.644	0.642	0.673	0.675	0.674	0.652									0.664559	2.97	0.03	1
N-Nitrosodi-n-propylamine		0.886	0.763	0.86	0.804	0.804	0.841	0.839	0.853	0.826									0.83074	4.39	0.044	1
3&4-Methyl phenol		1.359	1.323	1.402	1.296	1.301	1.336	1.331	1.332	1.298									1.330872	2.55	0.026	1
Acetophenone											1.784	1.721	1.813	1.732	1.835	1.888	1.873	1.874	1.814995	3.57	0.036	1
Naphthalene-d8																						

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5		0.357	0.349	0.377	0.362	0.376	0.384	0.385	0.389	0.372									0.372106	3.7	0.037	1
Nitrobenzene		0.378	0.377	0.396	0.376	0.38	0.38	0.382	0.382	0.368									0.380019	1.96	0.02	1
Isophorone		0.621	0.628	0.679	0.659	0.676	0.689	0.688	0.69	0.657									0.665182	3.94	0.039	1
2-Nitrophenol		0.154	0.169	0.19	0.187	0.189	0.204	0.208	0.209	0.201									0.190164	9.71	0.097	1
2,4-Dimethylphenol		0.376	0.365	0.384	0.357	0.36	0.358	0.356	0.355	0.338									0.361016	3.67	0.037	1
bis(2-Chlorethoxy)methane		0.418	0.419	0.457	0.426	0.421	0.423	0.426	0.425	0.409									0.42505	3.12	0.031	1
2,4-Dichlorophenol		0.331	0.316	0.345	0.325	0.321	0.332	0.335	0.338	0.327									0.330101	2.67	0.027	1
Benzoic Acid											0.14	0.146	0.166	0.189	0.209	0.235	0.244	0.254	0.19776	22.49	0.999	3
1,2,4-Trichlorobenzene		0.401	0.39	0.419	0.379	0.367	0.383	0.382	0.387	0.372									0.386745	4.02	0.04	1
Naphthalene	1.276	1.174	1.135	1.192	1.09	1.067	1.074	1.068	1.065	1.007									1.114754	7.11	0.071	1
4-Chloroaniline		0.136	0.14	0.15	0.138	0.14	0.141	0.14	0.14	0.135									0.140064	3.09	0.031	1
Hexachloro-1,3-butadiene		0.229	0.236	0.252	0.233	0.227	0.241	0.241	0.243	0.235									0.237369	3.23	0.032	1
Caprolactam											0.087	0.091	0.097	0.103	0.108	0.116	0.116	0.119	0.104693	11.4	0.114	1
4-Chloro-3-methylphenol		0.323	0.315	0.338	0.317	0.321	0.327	0.33	0.332	0.322									0.325134	2.31	0.023	1
2-Methylnaphthalene	0.819	0.825	0.798	0.866	0.787	0.781	0.798	0.797	0.79	0.756									0.801664	3.71	0.037	1
1-Methylnaphthalene	0.734	0.734	0.719	0.774	0.712	0.693	0.709	0.709	0.711	0.675									0.716859	3.7	0.037	1
1,2,4,5-Tetrachlorobenzene											0.393	0.383	0.384	0.381	0.378	0.391	0.384	0.39	0.385373	1.37	0.014	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene		0.37	0.379	0.42	0.409	0.406	0.447	0.456	0.464	0.452									0.4224	8.15	0.081	1
2,4,6-Trichlorophenol		0.355	0.361	0.383	0.366	0.367	0.386	0.391	0.397	0.382									0.376526	3.86	0.039	1
2,4,5-Trichlorophenol		0.341	0.392	0.413	0.407	0.389	0.419	0.417	0.424	0.413									0.401688	6.4	0.064	1
2-Fluorobiphenyl		1.375	1.324	1.414	1.308	1.251	1.3	1.277	1.278	1.212									1.304276	4.72	0.047	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.42	1.453	1.451	1.528	1.432	1.379	1.41	1.389	1.391	1.313									1.416422	3.99	0.04	1
2-Chloronaphthalene	1.282	1.203	1.185	1.226	1.146	1.104	1.136	1.131	1.129	1.078									1.161986	5.3	0.053	1
2-Nitroaniline		0.268	0.274	0.316	0.323	0.336	0.369	0.37	0.38	0.364									0.33321	12.49	0.125	1
Acenaphthylene	1.656	1.656	1.759	1.906	1.811	1.776	1.799	1.784	1.773	1.689									1.760928	4.36	0.044	1
Dimethyl phthalate		1.259	1.313	1.37	1.318	1.271	1.305	1.282	1.277	1.22									1.290496	3.28	0.033	1
2,6-Dinitrotoluene		0.219	0.255	0.294	0.293	0.292	0.313	0.311	0.315	0.305									0.288687	10.98	0.11	1
3-Nitroaniline		0.203	0.266	0.303	0.305	0.306	0.321	0.318	0.316	0.308									0.294066	12.79	0.128	1
Acenaphthene	1.059	1.234	1.211	1.269	1.197	1.149	1.165	1.154	1.135	1.084									1.1657	5.57	0.056	1
2,4-Dinitrophenol			0.099	0.129	0.152	0.166	0.197	0.207	0.213	0.211									0.171897	24.76	0.997	0
Dibenzofuran	1.682	1.77	1.749	1.828	1.69	1.64	1.666	1.642	1.63	1.562									1.685844	4.6	0.046	1
2,4-Dinitrotoluene		0.263	0.324	0.374	0.384	0.389	0.423	0.418	0.42	0.408									0.378052	14.08	0.141	1
2,3,4,6-Tetrachlorophenol											0.251	0.258	0.274	0.293	0.298	0.31	0.308	0.313	0.288002	8.42	0.084	1
4-Nitrophenol		0.167	0.214	0.25	0.257	0.258	0.269	0.268	0.271	0.265									0.24654	13.98	0.14	1
Fluorene	1.474	1.395	1.43	1.527	1.419	1.37	1.413	1.385	1.364	1.303									1.408153	4.39	0.044	1
4-Chlorophenyl-phenylether		0.72	0.715	0.756	0.698	0.673	0.696	0.692	0.7	0.673									0.702714	3.65	0.036	1
Diethyl phthalate		1.235	1.299	1.414	1.343	1.299	1.324	1.283	1.266	1.217									1.297833	4.54	0.045	1
4-Nitroaniline		0.27	0.273	0.32	0.32	0.292	0.271	0.247	0.246	0.244									0.275859	10.75	0.108	1
Azobenzene		1.214	1.253	1.409	1.382	1.381	1.363	1.345	1.336	1.264									1.32743	5.1	0.051	1
Atrazine											0.319	0.305	0.333	0.348	0.36	0.378	0.37	0.371	0.347913	7.7	0.077	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.075	0.102	0.112	0.117	0.138	0.141	0.148	0.147									0.122482	21.18	0.997	0
N-Nitrosodiphenylamine		0.617	0.605	0.67	0.636	0.596	0.631	0.611	0.617	0.595									0.61994	3.79	0.038	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S819E27O	Review Protocol	: SW846	Released On	: 5/28/2015 5:09:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.096	0.107	0.12	0.117	0.115	0.13	0.135	0.142	0.141									0.122554	12.74	0.127	1
4-Bromophenyl-phenylether		0.218	0.215	0.23	0.217	0.209	0.227	0.227	0.238	0.228									0.223101	4	0.04	1
Hexachlorobenzene		0.267	0.258	0.267	0.251	0.238	0.26	0.265	0.277	0.27									0.261486	4.37	0.044	1
n-octadecane		0.117	0.107	0.116	0.108	0.11	0.111	0.11	0.112	0.108									0.111099	3.19	0.032	1
Pentachlorophenol		0.12	0.128	0.145	0.143	0.144	0.164	0.168	0.176	0.173									0.151278	13.21	0.132	1
Phenanthrene	1.286	1.242	1.181	1.24	1.151	1.094	1.132	1.096	1.118	1.044									1.158433	6.69	0.067	1
Anthracene	1.043	1.055	1.12	1.188	1.138	1.093	1.133	1.128	1.136	1.065									1.109949	4.07	0.041	1
Carbazole	1.052	1.047	1.039	1.119	1.078	1.025	1.041	0.988	0.941	0.85									1.017998	7.46	0.075	1
Di-n-butyl phthalate		1.141	1.169	1.263	1.232	1.235	1.273	1.244	1.224	1.143									1.21357	4.12	0.041	1
2-nitrodiphenylamine											0.155	0.169	0.199	0.24	0.251	0.278	0.273	0.286	0.231456	22.12	0.997	0
Fluoranthene	1.303	1.216	1.258	1.346	1.291	1.24	1.282	1.255	1.233	1.152									1.257604	4.22	0.042	1
Chrysene-d12																						
Benzidine											0.382	0.42	0.467	0.529	0.533	0.566			0.482885	14.91	0.149	1
Pyrene	1.253	1.178	1.21	1.287	1.212	1.129	1.121	1.088	1.042	0.967									1.148557	8.62	0.086	1
p-Terphenyl-d14		0.919	0.905	0.975	0.917	0.852	0.866	0.855	0.85	0.82									0.884288	5.46	0.055	1
Benzylbutyl phthalate		0.49	0.486	0.528	0.515	0.529	0.531	0.523	0.538	0.512									0.516814	3.49	0.035	1
3,3-Dichlorobenzidine											0.403	0.404	0.414	0.427	0.378	0.393	0.428	0.414	0.407715	4.13	0.041	1
Benzo(a)anthracene	1.83	1.305	1.253	1.313	1.253	1.175	1.193	1.18	1.183	1.12									1.28057	15.82	0.999	0
Chrysene	1.209	1.232	1.216	1.271	1.193	1.152	1.166	1.134	1.128	1.056									1.175693	5.25	0.052	1
bis(2-Ethylhexyl)phthalate		0.904	0.737	0.812	0.785	0.8	0.777	0.758	0.773	0.725									0.785759	6.67	0.067	1
Di-n-octyl phthalate		1.216	1.24	1.359	1.336	1.363	1.347	1.337	1.34	1.263									1.311441	4.25	0.042	1
Perylene-d12																						

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

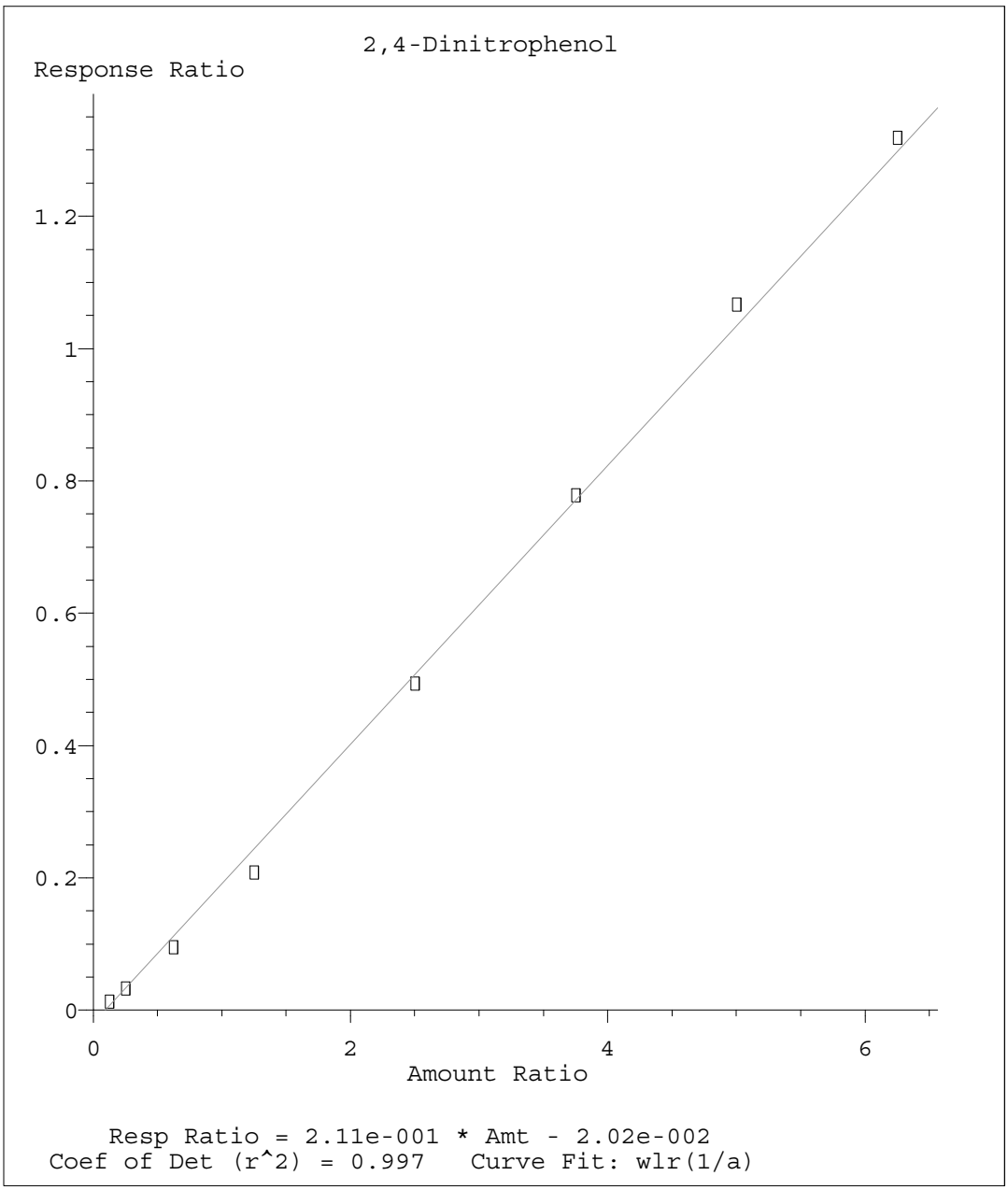
INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS19	Review Method	:	8270C	Released By	:	Allen Fuller
Method	:	S819E27O	Review Protocol	:	SW846	Released On	:	5/28/2015 5:09:01 PM

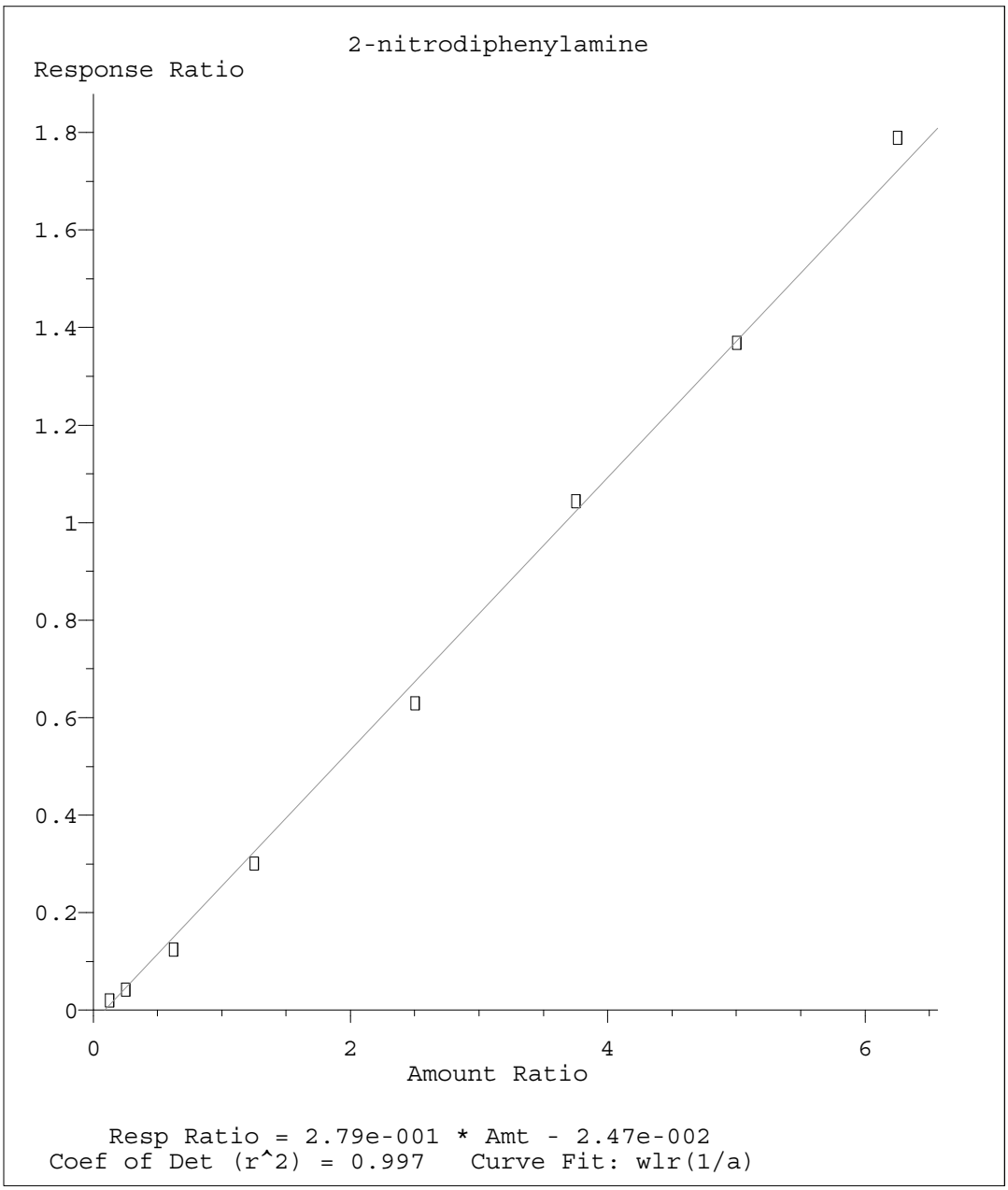
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819E27O -- ICal Updated Time: Thu May 28 16:43:04 2015

Parameter	40	200	1000	2000	5000	10000	20000	30000	40000	50000	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.3	1.241	1.259	1.357	1.277	1.2	1.27	1.244	1.291	1.274									1.271299	3.26	0.033	1
Benzo(k)fluoranthene	1.356	1.205	1.172	1.271	1.197	1.188	1.201	1.224	1.173	1.142									1.212975	5.02	0.05	1
Benzo(a)pyrene	1.294	1.103	1.143	1.277	1.186	1.164	1.204	1.217	1.222	1.157									1.196677	4.95	0.05	1
Indeno(1,2,3-cd)pyrene	1.306	1.325	1.388	1.479	1.429	1.381	1.418	1.39	1.365	1.263									1.374318	4.6	0.046	1
Dibenz(a,h)anthracene	1.19	1.115	1.166	1.265	1.218	1.186	1.218	1.2	1.174	1.092									1.182264	4.25	0.043	1
Benzo(g,h,i)perylene	1.233	1.142	1.175	1.254	1.199	1.154	1.166	1.13	1.08	0.972									1.150659	6.97	0.07	1

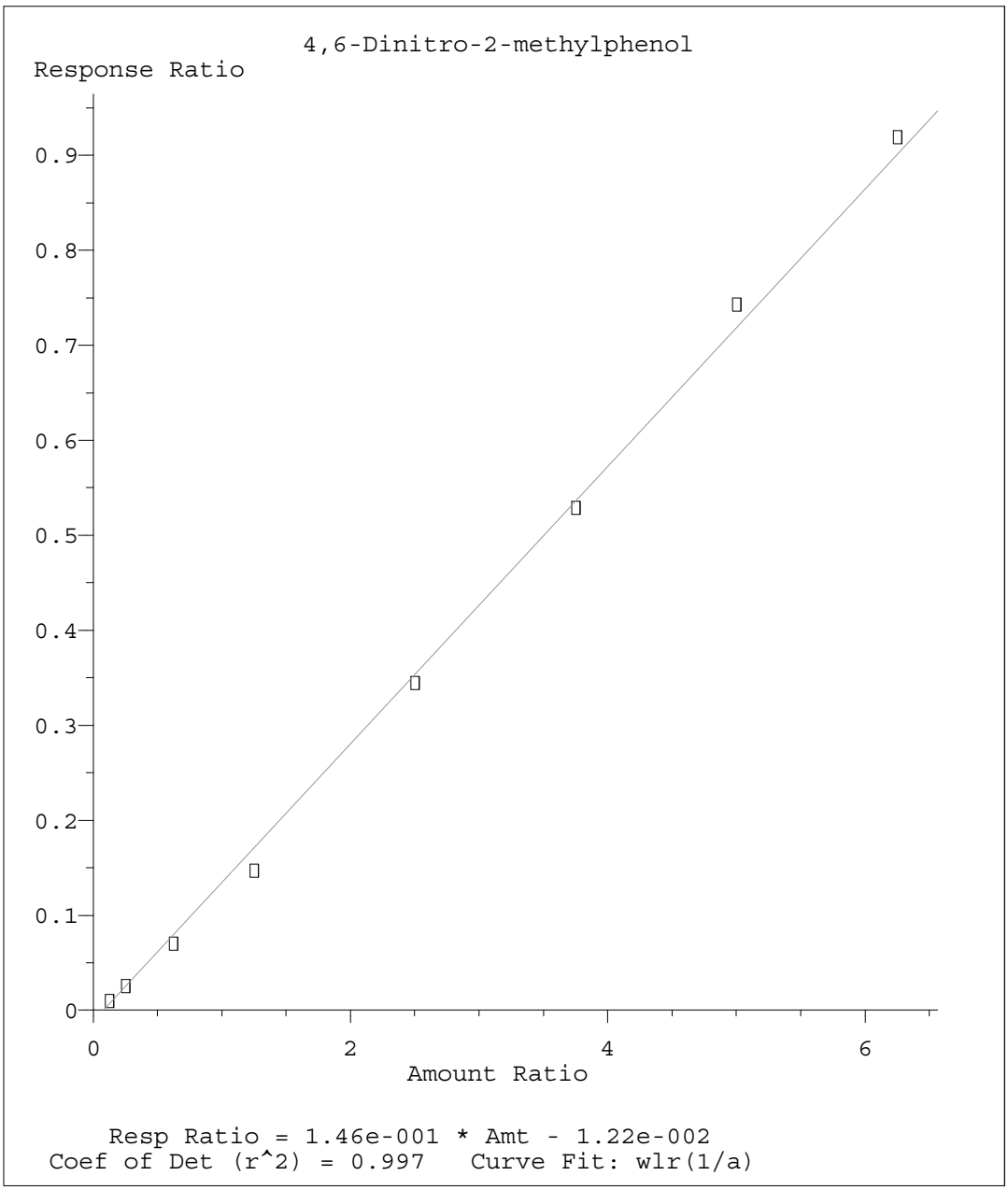
PDF Generated On: 05/28/2015 -- By: Allen Fuller



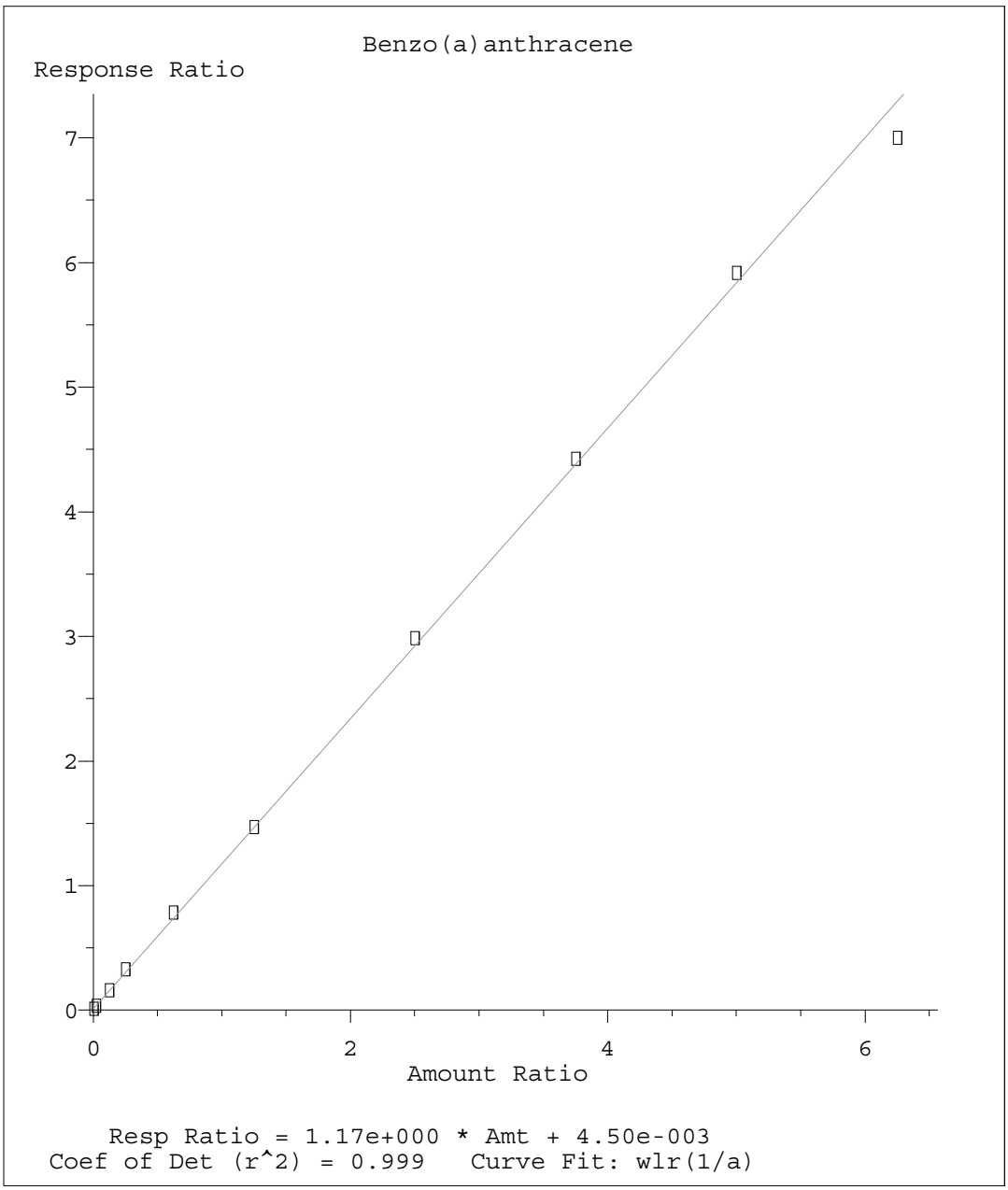
Method Name: C:\msdchem\1\methods\S819E27O.M



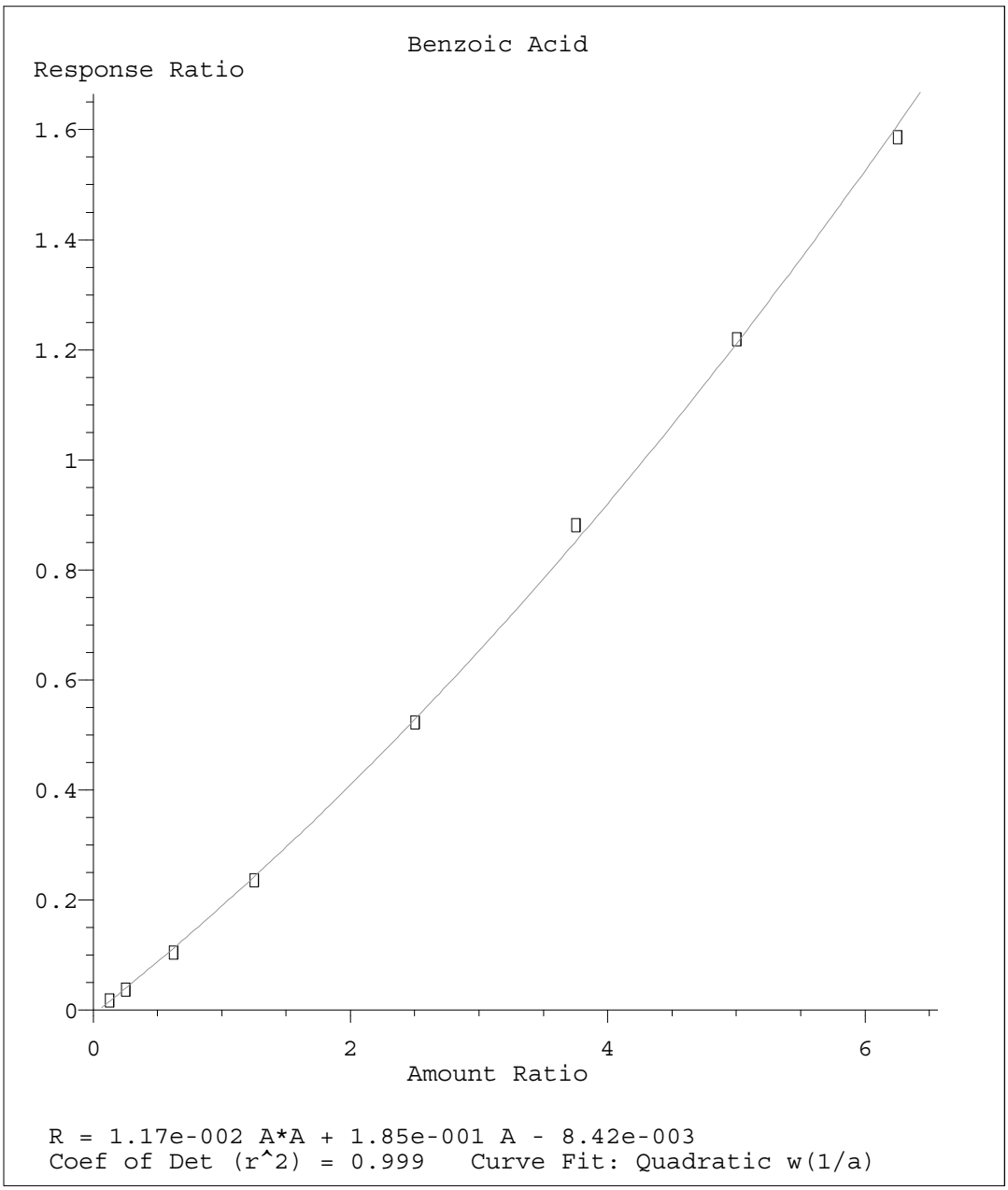
Method Name: C:\msdchem\1\methods\S819E27O.M



Method Name: C:\msdchem\1\methods\S819E27O.M



Method Name: C:\msdchem\1\methods\S819E27O.M



Method Name: C:\msdchem\1\methods\S819E27O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	121478	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.796	136	478583	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.690	164	331820	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.331	188	620123	8000.0000000 ppb	0.01
78) Chrysene-d12	13.254	240	674326	8000.0000000 ppb	0.02
88) Perylene-d12	15.219	264	715817	8000.0000000 ppb	0.03
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.043	82	257	11.5451325 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 115.45%	
44) 2-Fluorobiphenyl	8.001	172	55	1.0166712 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 10.17%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.455	79	3449	154.1927468 ppb #	30
3) N-Nitrosodimethylamine	3.402	42	228	19.6930919 ppb #	11
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	5.019	94	59	2.6066152 ppb #	19
9) Benzaldehyde	5.113	105	53	5.6107493 ppb #	27
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.307	41	609	47.1892006 ppb #	48
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.549	79	204	12.0873379 ppb	97
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	5.854	70	174	13.7935687 ppb #	34
20) 3&4-Methyl phenol	5.760	107	57	2.8205305 ppb #	23
21) Acetophenone	5.896	105	56	2.0319123 ppb #	1
24) Nitrobenzene	6.060	77	113	4.9705718 ppb #	31
25) Isophorone	6.290	82	129	3.2417679 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.348	107	54	2.5003455 ppb #	20
28) bis(2-Chlorethoxy)methane	6.496	93	65	2.5562633 ppb #	29
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.543	105	175	378.6214996 ppb #	1
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	6.896	65	118	14.0827261 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	7.325	107	72	3.7017157 ppb #	30
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

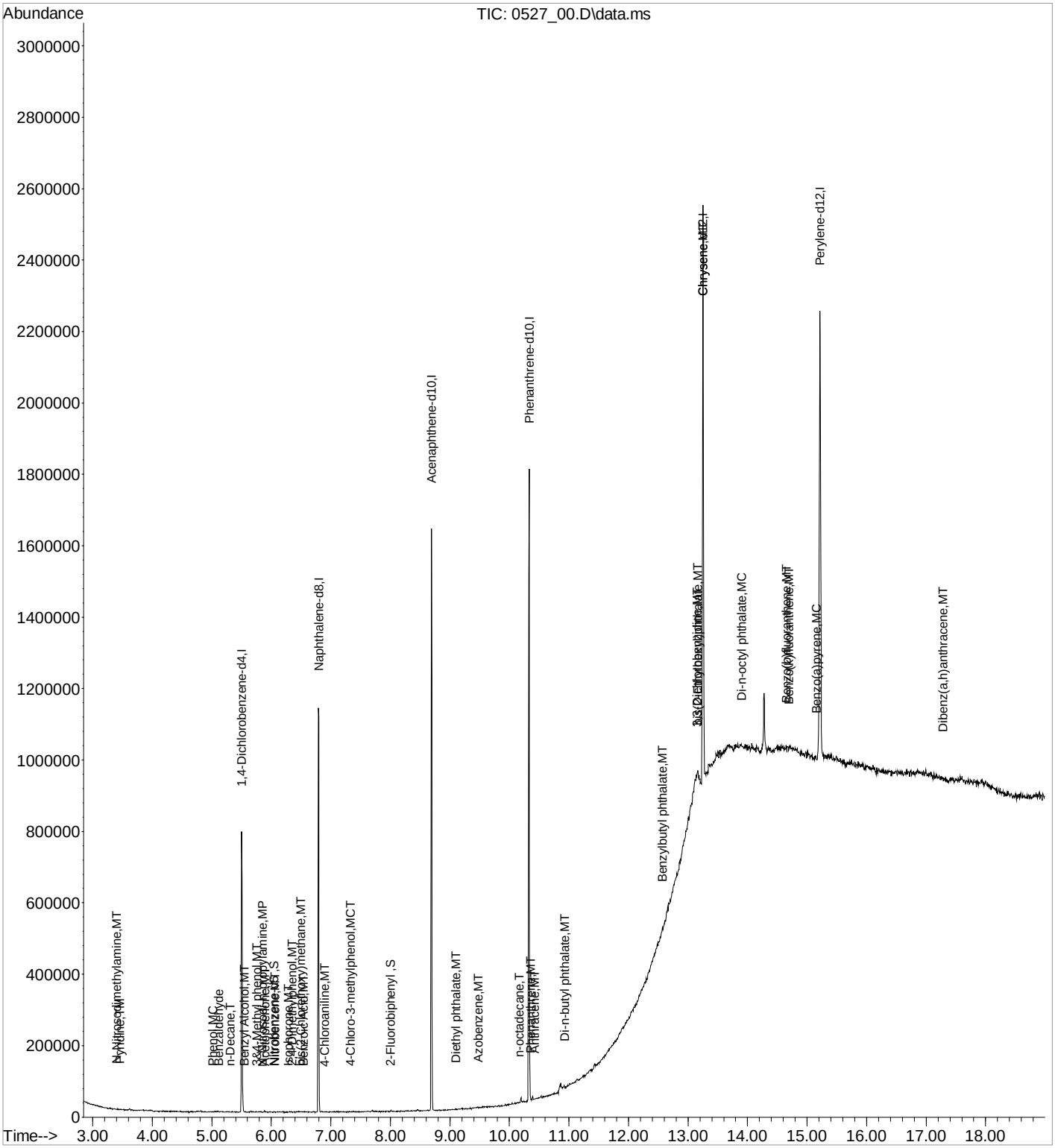
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.095	149	56	1.0402953 ppb #	62
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.478	77	325	5.9028139 ppb #	44
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.166	55	355	41.2221798 ppb #	49
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.354	178	60	0.6681787 ppb	70
73)	Anthracene	10.425	178	113	1.3133710 ppb #	42
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.931	149	1934	20.5590850 ppb #	29
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	12.572	149	501	11.5006888 ppb #	24
83)	3,3-Dichlorobenzidine	13.154	252	716	20.8341905 ppb #	52
84)	Benzo(a)anthracene	13.248	228	1763	Below Cal #	1
85)	Chrysene	13.248	228	1763	17.7901075 ppb	75
86)	bis(2-Ethylhexyl)phtha...	13.166	149	6481	97.8527006 ppb	85
87)	Di-n-octyl phthalate	13.901	149	719	6.5042938 ppb	73
89)	Benzo(b)fluoranthene	14.654	252	161	1.4153572 ppb #	14
90)	Benzo(k)fluoranthene	14.695	252	1170	10.7800772 ppb	79
91)	Benzo(a)pyrene	15.160	252	199	1.8585070 ppb #	1
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	17.283	278	189	1.7866335 ppb #	31
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	121478	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.796	136	478583	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.690	164	331820	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.331	188	620123	8000.0000000 ppb	0.01
78) Chrysene-d12	13.254	240	674326	8000.0000000 ppb	0.02
88) Perylene-d12	15.219	264	715817	8000.0000000 ppb	0.03
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.043	82	257	11.5451325 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 115.45%	
44) 2-Fluorobiphenyl	8.001	172	55	1.0166712 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 10.17%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.455	79	3449	154.1927468 ppb #	30
3) N-Nitrosodimethylamine	3.402	42	228	19.6930919 ppb #	11
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	5.019	94	59	2.6066152 ppb #	19
9) Benzaldehyde	5.113	105	53	5.6107493 ppb #	27
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.307	41	609	47.1892006 ppb #	48
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.549	79	204	12.0873379 ppb	97
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	5.854	70	174	13.7935687 ppb #	34
20) 3&4-Methyl phenol	5.760	107	57	2.8205305 ppb #	23
21) Acetophenone	5.896	105	56	2.0319123 ppb #	1
24) Nitrobenzene	6.060	77	113	4.9705718 ppb #	31
25) Isophorone	6.290	82	129	3.2417679 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.348	107	54	2.5003455 ppb #	20
28) bis(2-Chlorethoxy)methane	6.496	93	65	2.5562633 ppb #	29
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.543	105	175	378.6214996 ppb #	1
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D.	
33) 4-Chloroaniline	6.896	65	118	14.0827261 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	7.325	107	72	3.7017157 ppb #	30
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

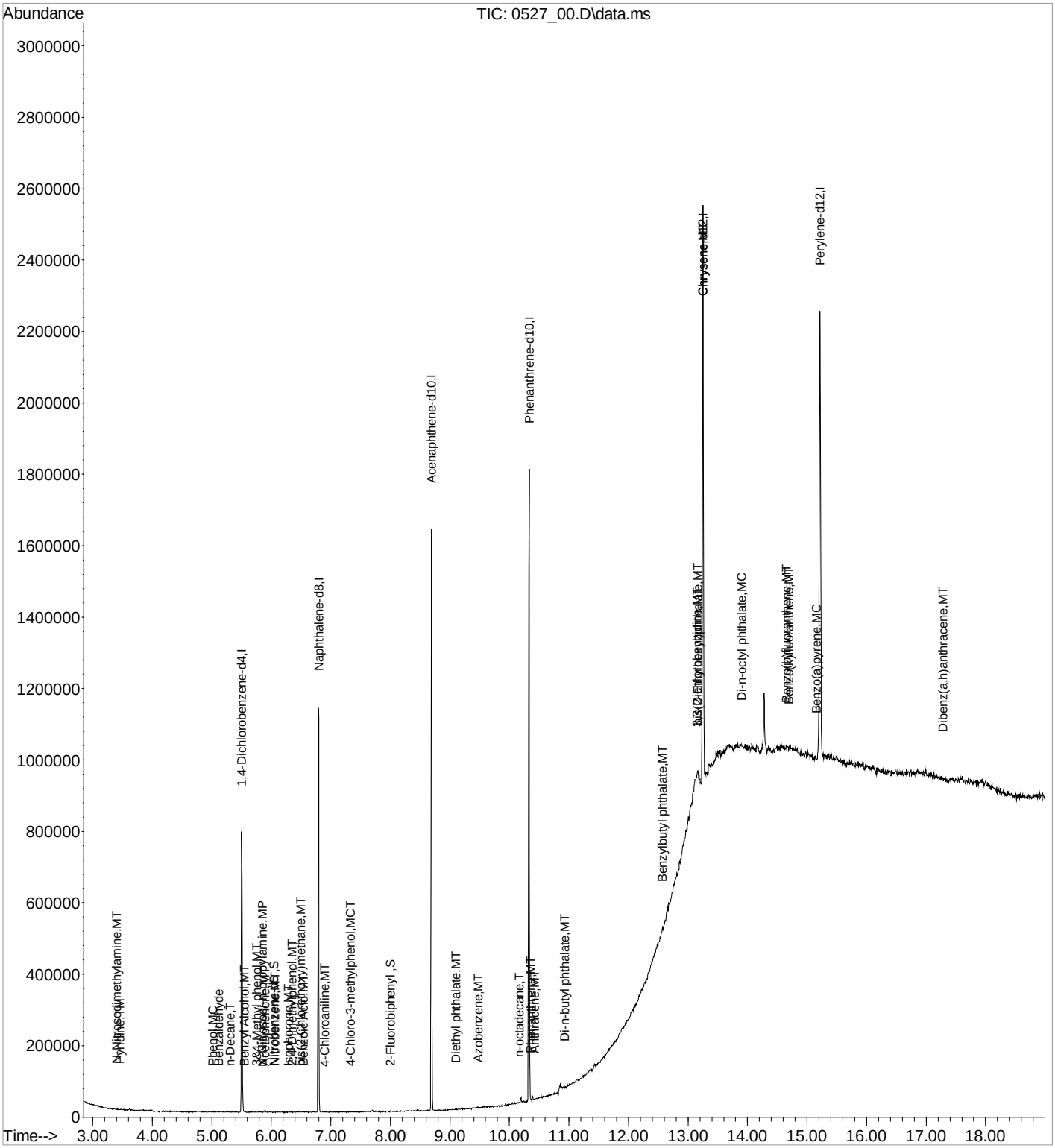
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.095	149	56	1.0402953 ppb #	62
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.478	77	325	5.9028139 ppb #	44
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.166	55	355	41.2221798 ppb #	49
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.354	178	60	0.6681787 ppb	70
73)	Anthracene	10.425	178	113	1.3133710 ppb #	42
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.931	149	1934	20.5590850 ppb #	29
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	12.572	149	501	11.5006888 ppb #	24
83)	3,3-Dichlorobenzidine	13.154	252	716	20.8341905 ppb #	52
84)	Benzo(a)anthracene	13.248	228	1763	Below Cal #	1
85)	Chrysene	13.248	228	1763	17.7901075 ppb	75
86)	bis(2-Ethylhexyl)phtha...	13.166	149	6481	97.8527006 ppb	85
87)	Di-n-octyl phthalate	13.901	149	719	6.5042938 ppb	73
89)	Benzo(b)fluoranthene	14.654	252	161	1.4153572 ppb #	14
90)	Benzo(k)fluoranthene	14.695	252	1170	10.7800772 ppb	79
91)	Benzo(a)pyrene	15.160	252	199	1.8585070 ppb #	1
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	17.283	278	189	1.7866335 ppb #	31
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 00.D
Acq On : 27 May 2015 5:36 pm
Operator : 377
Sample : INSTBLK SVOC
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 16:43:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03MRL.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:52:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	145691	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	556547	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	384257	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	732519	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	787299	8000.0000000 ppb	0.00
88) Perylene-d12	15.201	264	781858	8000.0000000 ppb	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D. d	
13) 1,4-Dichlorobenzene	0.000		0	N.D. d	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D. d	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D. d	
17) 2-Methylphenol	0.000		0	N.D. d	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D. d	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	6.813	128	3550	45.7759449 ppb	97
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D. d	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d	
37) 2-Methylnaphthalene	7.548	142	2278	40.8460075 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03MRL.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:52:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

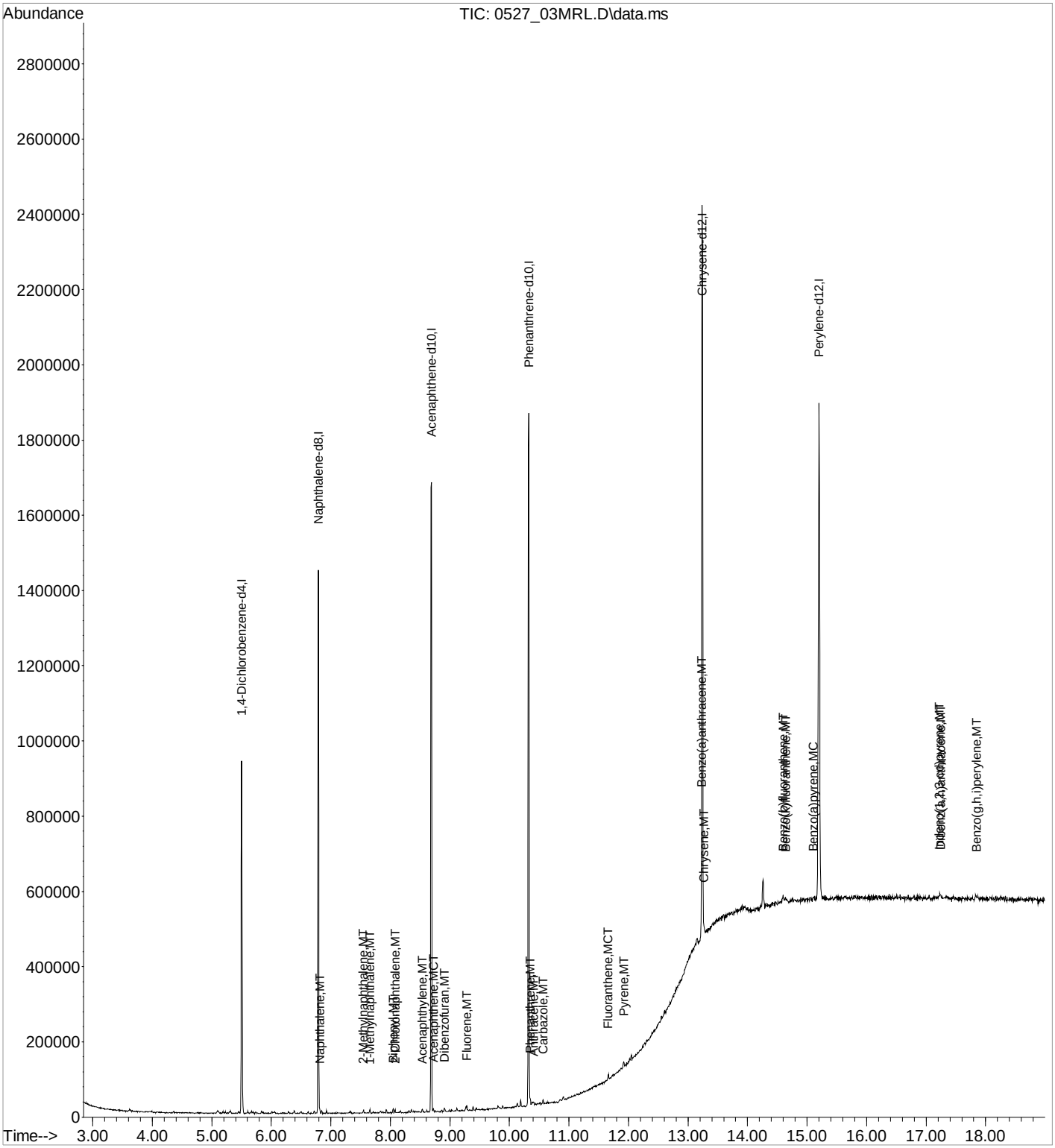
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	2042	40.9458718 ppb		94
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	0.000		0	N.D. d		
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d		
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d		
45)	Biphenyl	8.048	154	2728	40.0977368 ppb		97
46)	2-Chloronaphthalene	8.078	162	2463	44.1297927 ppb		92
47)	2-Nitroaniline	0.000		0	N.D. d		
48)	Acenaphthylene	8.537	152	3182	37.6206916 ppb		96
49)	Dimethyl phthalate	0.000		0	N.D. d		
50)	2,6-Dinitrotoluene	0.000		0	N.D. d		
51)	3-Nitroaniline	0.000		0	N.D. d		
52)	Acenaphthene	8.719	153	2035	36.3451110 ppb		92
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	8.907	168	3231	39.9013600 ppb	#	96
55)	2,4-Dinitrotoluene	0.000		0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	0.000		0	N.D. d		
58)	Fluorene	9.284	166	2832	41.8708199 ppb		91
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
60)	Diethyl phthalate	0.000		0	N.D. d		
61)	4-Nitroaniline	0.000		0	N.D. d		
62)	Azobenzene	0.000		0	N.D. d		
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D. d		
68)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
69)	Hexachlorobenzene	0.000		0	N.D. d		
70)	n-octadecane	0.000		0	N.D. d		
71)	Pentachlorophenol	0.000		0	N.D. d		
72)	Phenanthrene	10.348	178	5118	48.2503626 ppb		95
73)	Anthracene	10.407	178	3819	37.5766089 ppb		93
74)	Carbazole	10.566	167	3852	41.3247749 ppb		96
75)	Di-n-butyl phthalate	0.000		0	N.D. d		
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	4772	41.4407603 ppb		93
79)	Benzidine	0.000		0	N.D. d		
80)	Pyrene	11.919	202	4931	43.6247100 ppb		97
82)	Benzylbutyl phthalate	0.000		0	N.D. d		
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	7204	31.9037618 ppb		83
85)	Chrysene	13.272	228	4759	41.1312748 ppb		91
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
87)	Di-n-octyl phthalate	0.000		0	N.D. d		
89)	Benzo(b)fluoranthene	14.601	252	5296m	42.6247936 ppb		
90)	Benzo(k)fluoranthene	14.636	252	5290m	44.6237235 ppb		
91)	Benzo(a)pyrene	15.107	252	5060	43.2649055 ppb		96
92)	Indeno(1,2,3-cd)pyrene	17.218	276	5106	38.0150479 ppb		91
93)	Dibenz(a,h)anthracene	17.242	278	4651	40.2526184 ppb		81
94)	Benzo(g,h,i)perylene	17.848	276	4821	42.8699305 ppb		80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03MRL.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:52:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On    : 27 May 2015   6:53 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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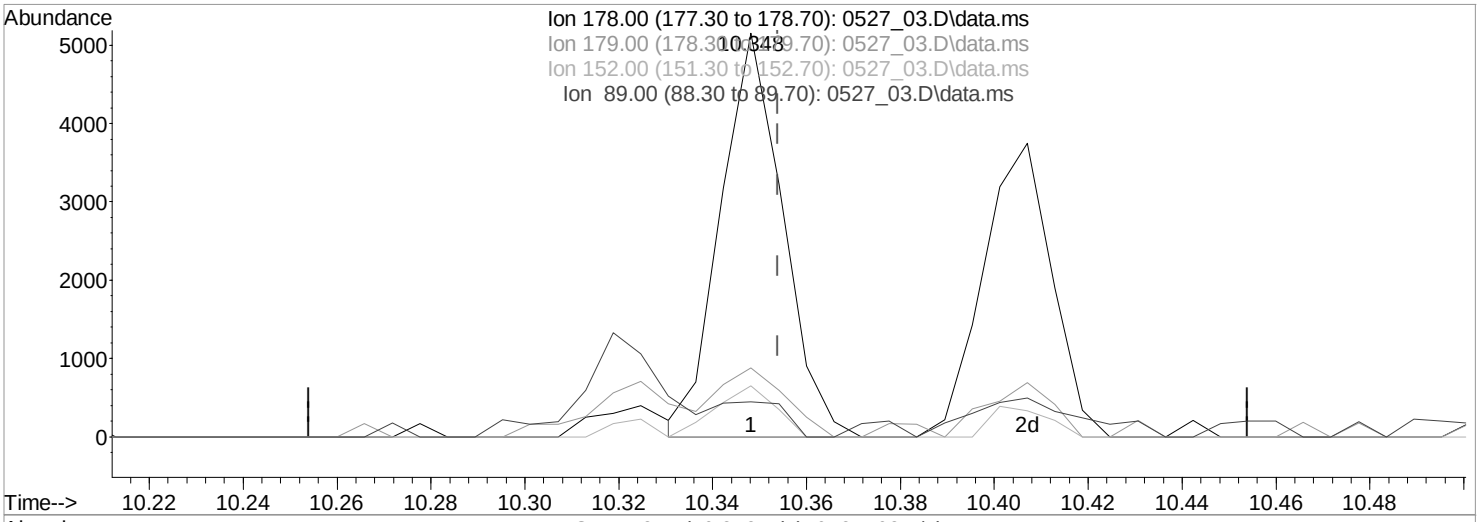
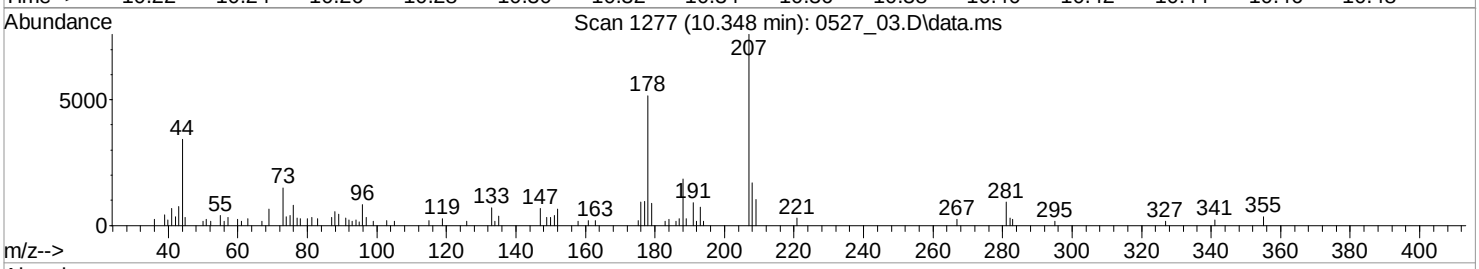
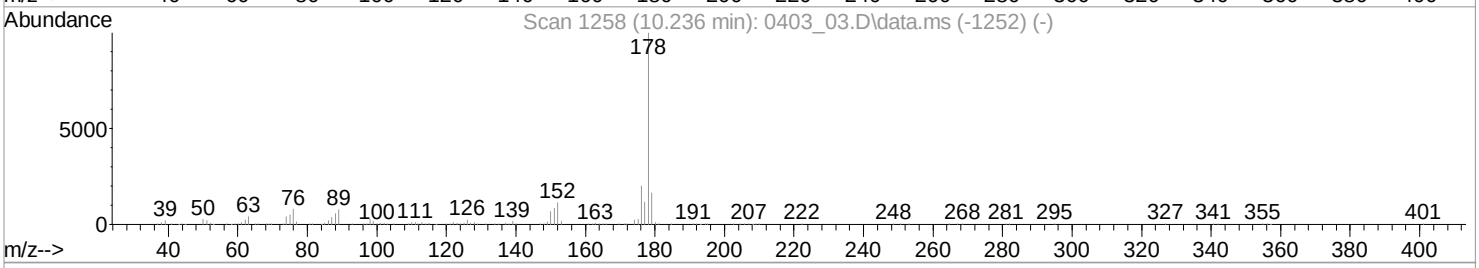






TIC: 0527_03.D\data.ms

(72) Phenanthrene (MT)

10.348min (-0.006) 47.0132656 ppb m

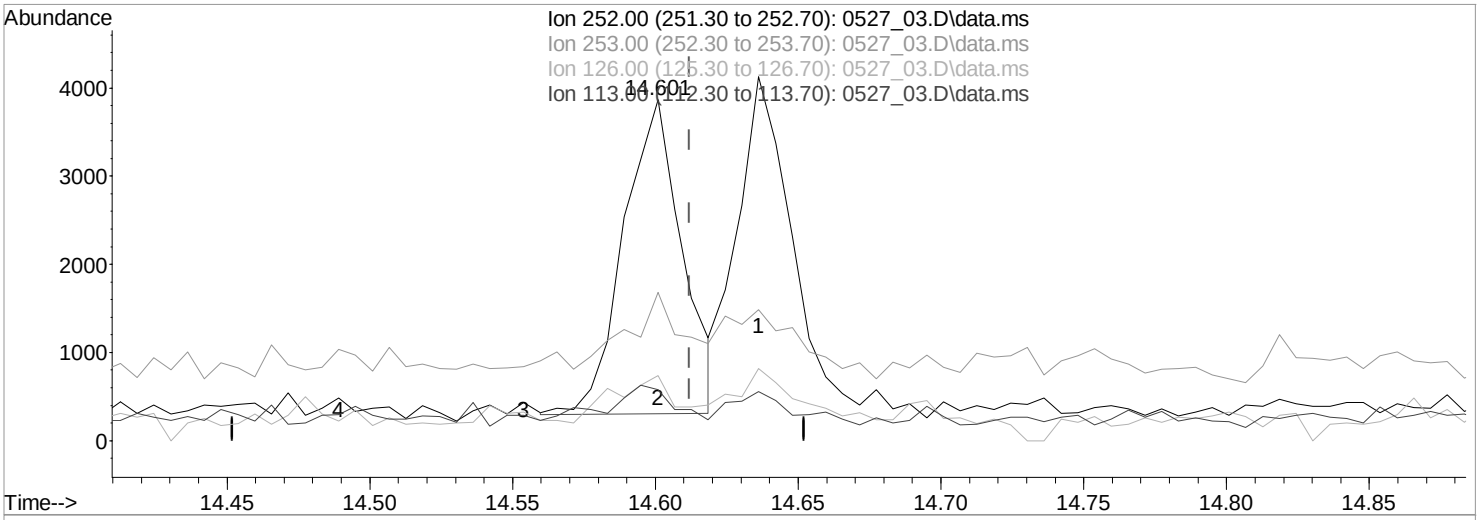
response 4711

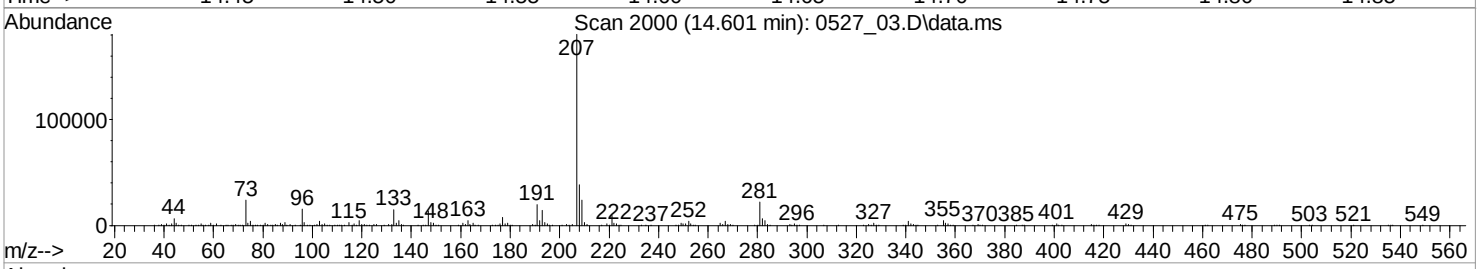
Ion	Exp%	Act%
178.00	100	100
179.00	15.20	16.98
152.00	10.10	12.64
89.00	7.50	8.64

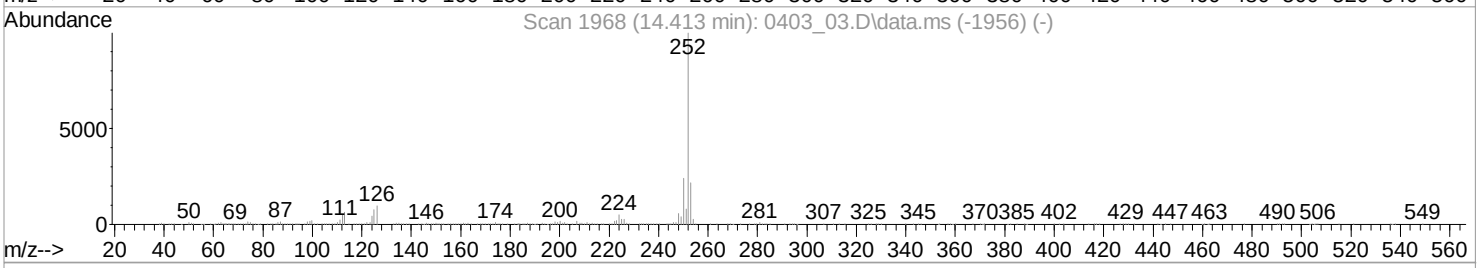
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_03.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.601min (-0.011) 43.3309207 ppb m

response 5081

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	43.46#
126.00	13.60	19.09
113.00	6.70	14.95

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On    : 27 May 2015   6:53 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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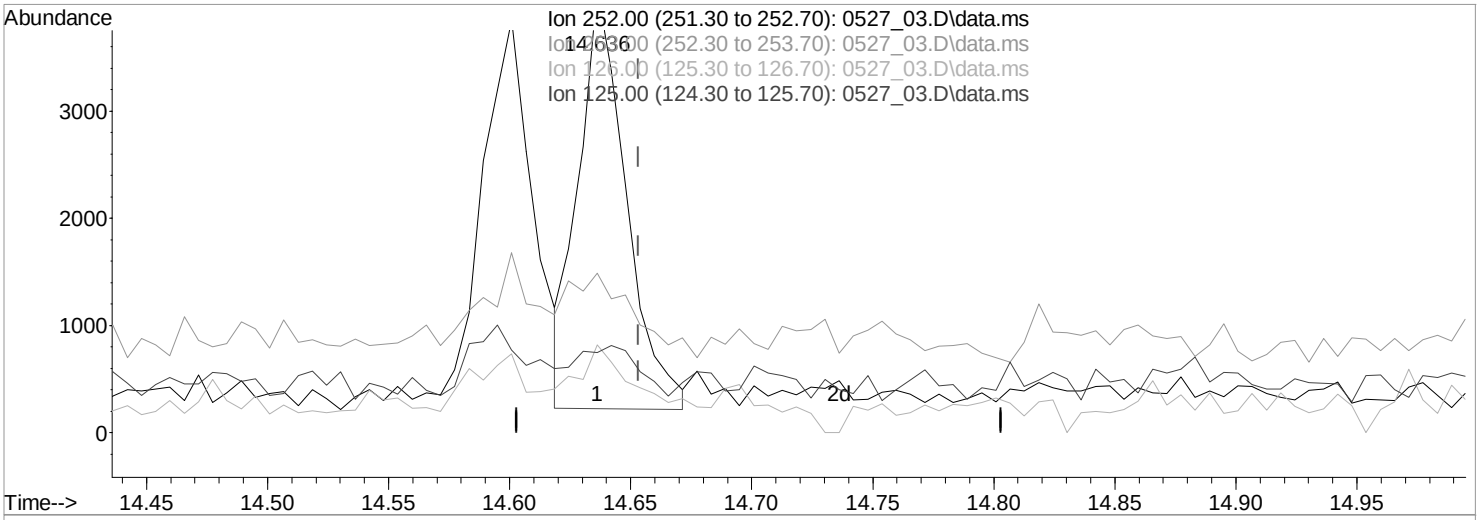
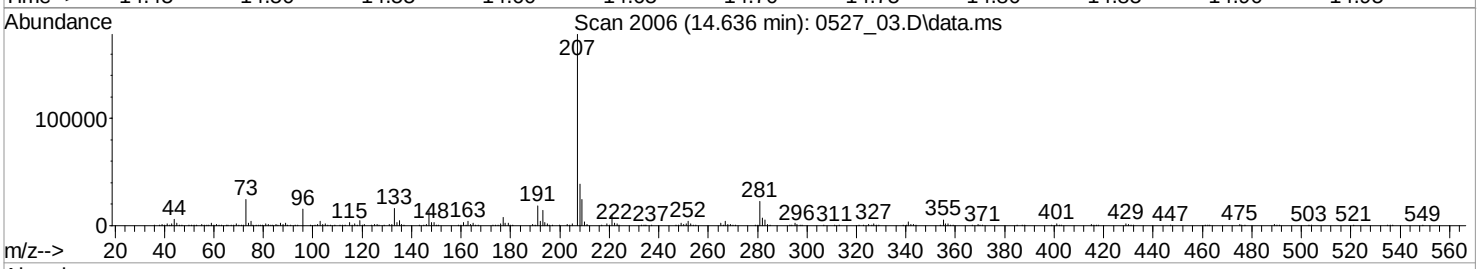
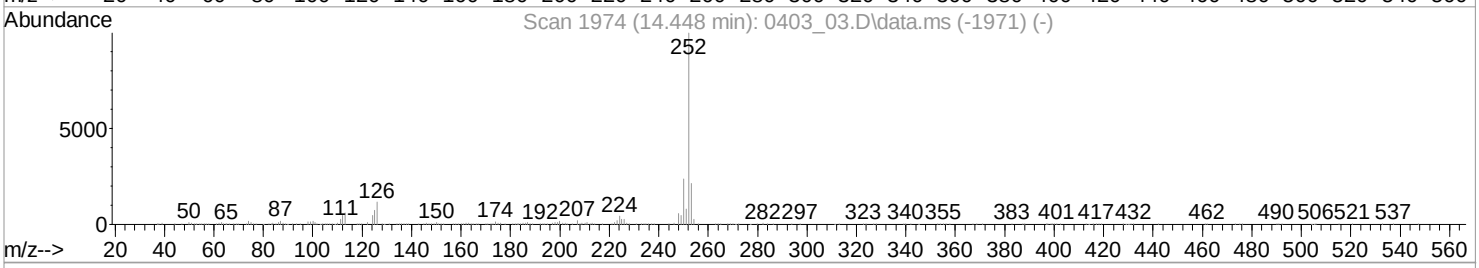






TIC: 0527_03.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.636min (-0.017) 45.6462156 ppb m

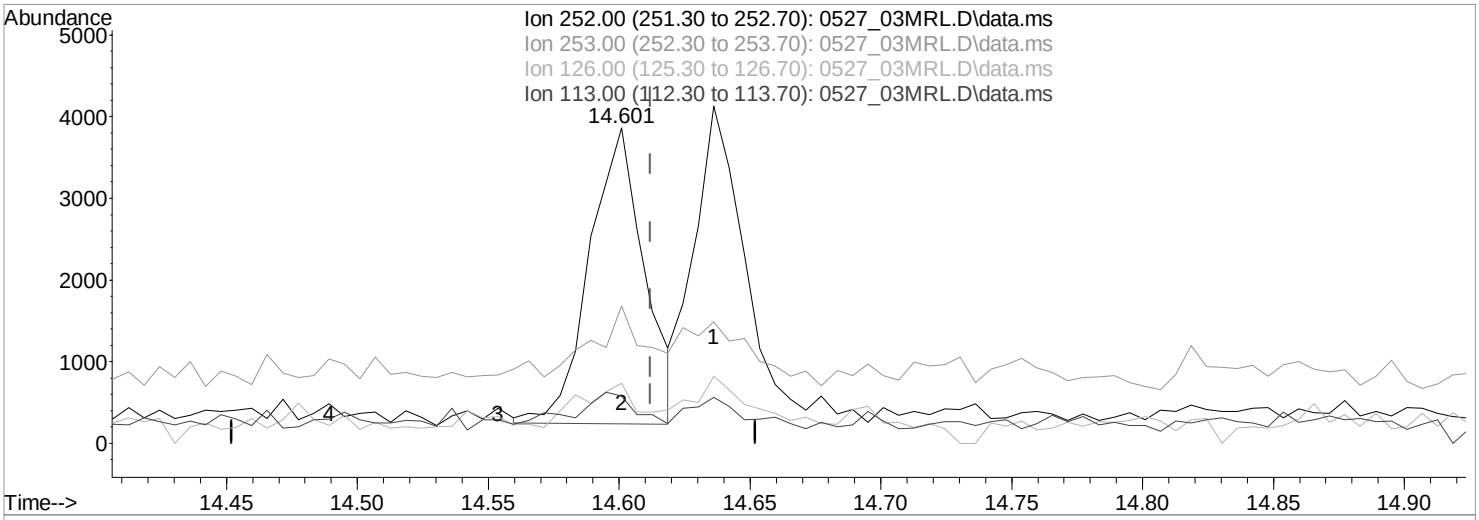
response 5301

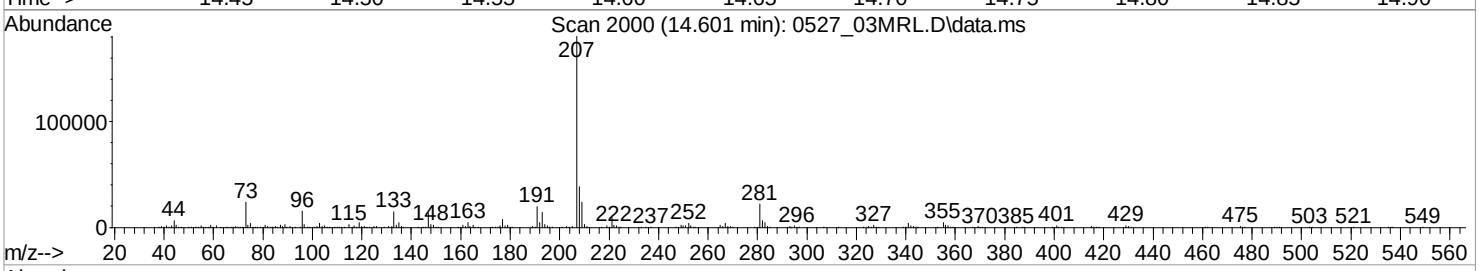
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	36.01
126.00	14.60	19.87
125.00	9.70	18.15

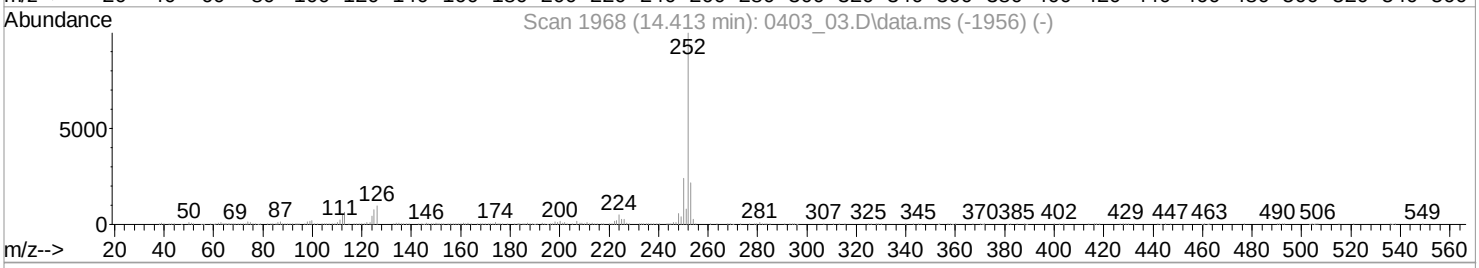
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03MRL.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:46:48 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration







TIC: 0527_03MRL.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.601min (-0.011) 42.6247936 ppb m

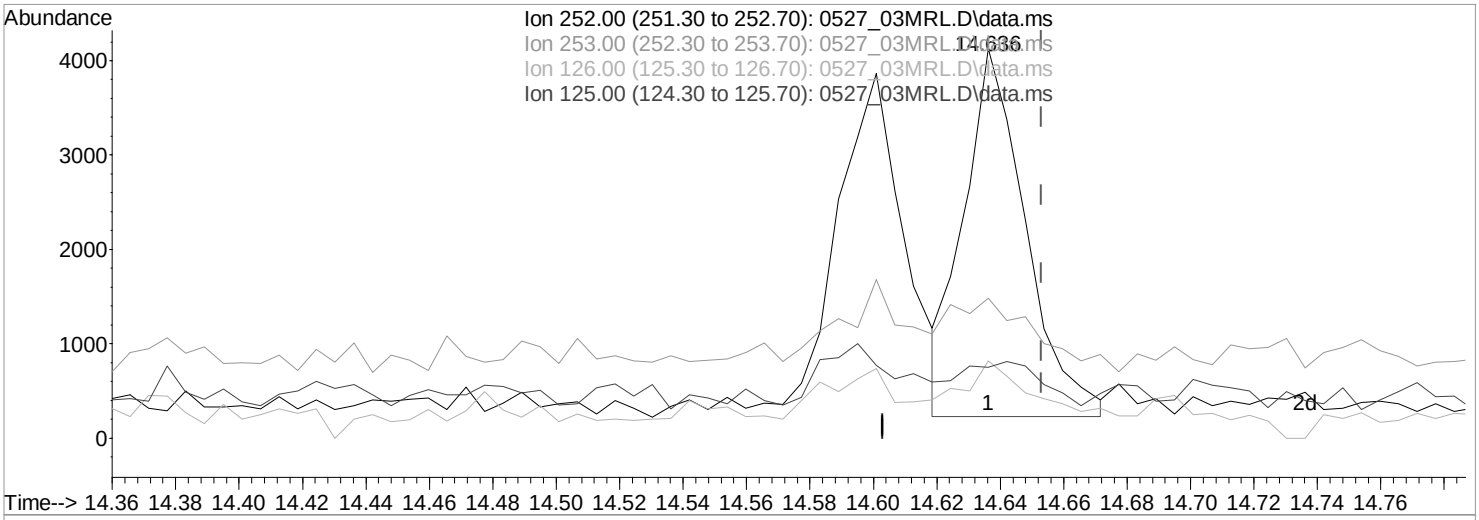
response 5296

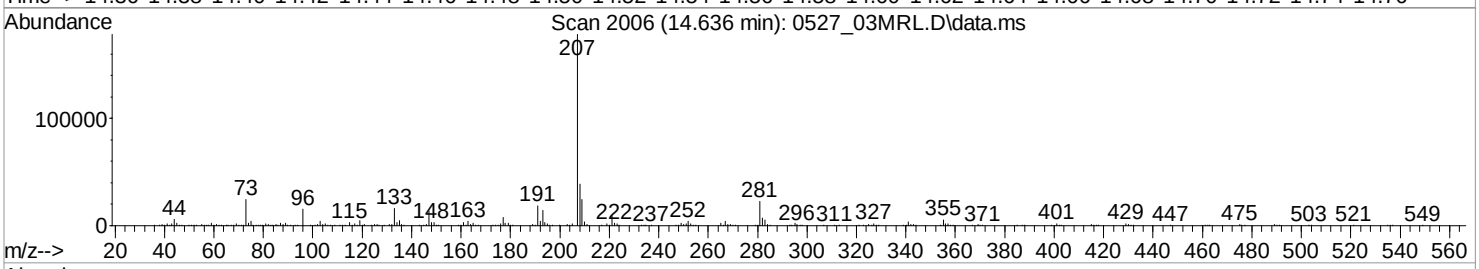
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	43.46#
126.00	13.60	19.09
113.00	6.70	14.95

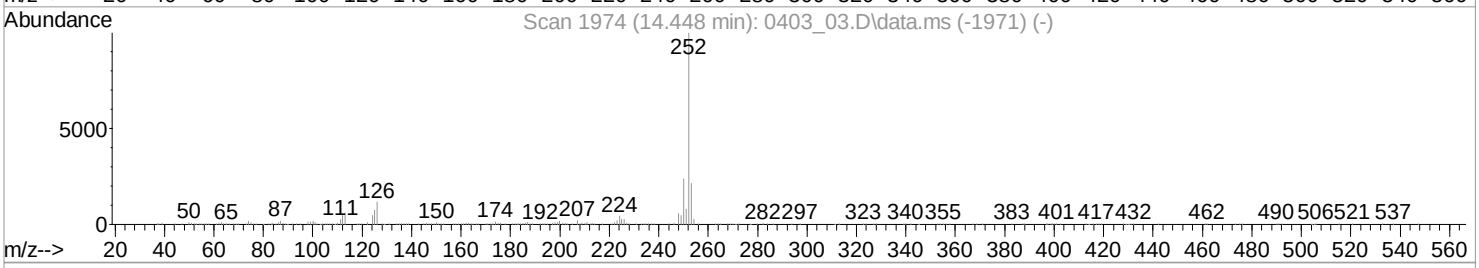
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03MRL.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : MRL SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:46:48 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration







TIC: 0527_03MRL.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.636min (-0.017) 44.6237235 ppb m

response 5290

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	36.01
126.00	14.60	19.87
125.00	9.70	18.15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04MRL.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:53:36 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	136424	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	513743	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	361464	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	689820	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	749423	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	754418	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.360	112	3633	198.3677460 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 991.84%#		
7) Phenol-d5	5.096	99	5034	203.5185911 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 1017.59%#		
23) Nitrobenzene-d5	6.037	82	4581	191.7067654 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 1917.07%#		
44) 2-Fluorobiphenyl	7.931	172	12422	210.7884694 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 2107.88%#		
67) 2,4,6-Tribromophenol	9.542	330	1664	157.4638686 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 787.32%#		
81) p-Terphenyl-d14	12.048	244	17225	207.9355282 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 2079.36%#		
Target Compounds					Qvalue
2) Pyridine	3.431	79	5328	212.1005628 ppb #	75
3) N-Nitrosodimethylamine	3.396	42	2510m	193.0454794 ppb	
5) Aniline	5.184	66	2023	170.6402525 ppb #	79
6) bis(2-Chloroethyl)ether	5.225	63	3323	205.7004962 ppb	93
8) Phenol	5.113	94	5056	198.9018552 ppb	98
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.296	128	4705	208.7073395 ppb	97
11) n-Decane	5.313	41	3447	237.8337400 ppb #	69
12) 1,3-Dichlorobenzene	5.448	146	5285	202.8958328 ppb	96
13) 1,4-Dichlorobenzene	5.519	146	5514	206.7118987 ppb	90
14) Benzyl Alcohol	5.607	79	4018	211.9909316 ppb	91
15) 1,2-Dichlorobenzene	5.666	146	5138	200.7194071 ppb	95
16) bis(2-Chloroisopropyl)...	5.737	121	1707	228.0712009 ppb	99
17) 2-Methylphenol	5.690	108	4128	211.3900867 ppb	93
18) Hexachloroethane	6.007	117	2289	201.9813783 ppb	96
19) N-Nitrosodi-n-propylamine	5.860	70	3023	213.3891798 ppb	91
20) 3&4-Methyl phenol	5.837	107	4634	204.1826441 ppb	97
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	6.054	77	4860	199.1478084 ppb	97
25) Isophorone	6.290	82	7974	186.6722612 ppb	94
26) 2-Nitrophenol	6.378	139	1983	162.3821189 ppb	85
27) 2,4-Dimethylphenol	6.390	107	4833	208.4656038 ppb	97
28) bis(2-Chlorethoxy)methane	6.495	93	5375	196.9164756 ppb	96
29) 2,4-Dichlorophenol	6.619	162	4253	200.6287807 ppb	82
30) Benzoic Acid	6.384	105	163	376.5417229 ppb #	1
31) 1,2,4-Trichlorobenzene	6.719	180	5153	207.4815236 ppb	97
32) Naphthalene	6.813	128	15072	210.5405624 ppb	98
33) 4-Chloroaniline	6.843	65	1745	194.0043673 ppb	83
34) Hexachloro-1,3-butadiene	6.931	225	2943	193.0683515 ppb	96
35) Caprolactam	7.331	113	60	8.9244135 ppb #	1
36) 4-Chloro-3-methylphenol	7.331	107	4149	198.7125758 ppb	87
37) 2-Methylnaphthalene	7.548	142	10601	205.9200598 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04MRL.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:53:36 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

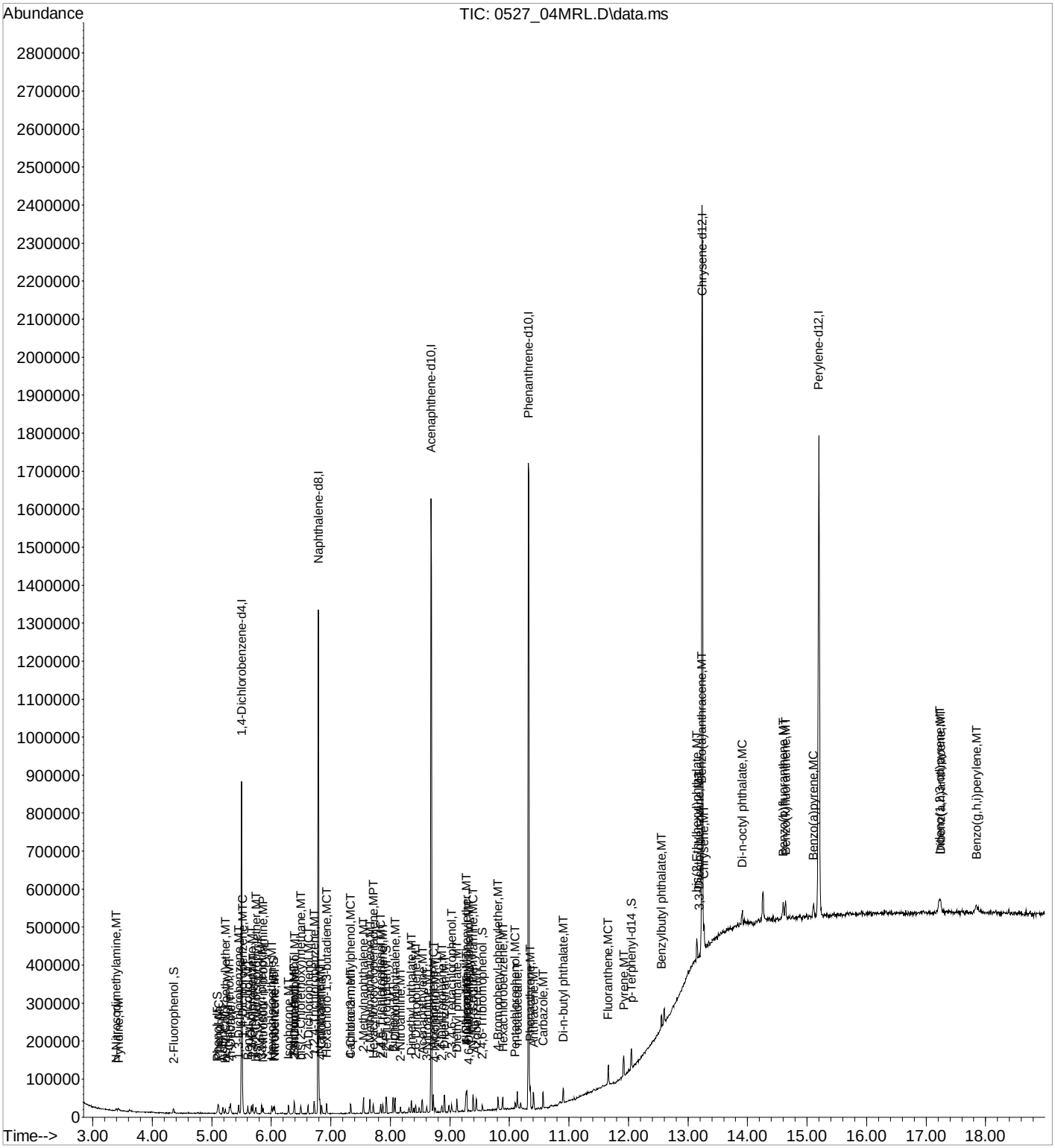
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	9422	204.6696341 ppb		98
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	3340	175.0036141 ppb		96
42)	2,4,6-Trichlorophenol	7.837	196	3211	188.7425902 ppb		94
43)	2,4,5-Trichlorophenol	7.872	196	3081	169.7568811 ppb		86
45)	Biphenyl	8.048	154	13127	205.1151397 ppb		98
46)	2-Chloronaphthalene	8.078	162	10870	207.0397609 ppb		99
47)	2-Nitroaniline	8.172	138	2422	160.8720980 ppb		99
48)	Acenaphthylene	8.537	152	14964	188.0749853 ppb		98
49)	Dimethyl phthalate	8.354	163	11375	195.0831768 ppb		96
50)	2,6-Dinitrotoluene	8.425	165	1982	151.9501201 ppb		98
51)	3-Nitroaniline	8.613	138	1838	138.3327998 ppb		99
52)	Acenaphthene	8.719	153	11155	211.7911937 ppb		89
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	8.907	168	15992	209.9472833 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	2373	138.9221250 ppb		96
56)	2,3,4,6-Tetrachlorophenol	9.031	232	2636	202.5697694 ppb		95
57)	4-Nitrophenol	8.754	139	1512	135.7341959 ppb		88
58)	Fluorene	9.284	166	12608	198.1623543 ppb		98
59)	4-Chlorophenyl-phenyle...	9.272	204	6505	204.8772599 ppb		94
60)	Diethyl phthalate	9.119	149	11164	190.3820272 ppb		95
61)	4-Nitroaniline	9.272	138	2439	195.6814802 ppb		92
62)	Azobenzene	9.442	77	10967	182.8525748 ppb		96
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.313	198	713	724.1450252 ppb		89
66)	N-Nitrosodiphenylamine	9.389	169	10640	199.0427515 ppb		98
68)	4-Bromophenyl-phenylether	9.807	248	3760	195.4518276 ppb		89
69)	Hexachlorobenzene	9.889	284	4611	204.5039535 ppb		89
70)	n-octadecane	10.131	55	2470	257.8348460 ppb	#	96
71)	Pentachlorophenol	10.095	266	2075	159.0730494 ppb	#	86
72)	Phenanthrene	10.348	178	21411	214.3484579 ppb		98
73)	Anthracene	10.407	178	18195	190.1091841 ppb		96
74)	Carbazole	10.566	167	18063	205.7771805 ppb		98
75)	Di-n-butyl phthalate	10.901	149	19671	187.9818017 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	20974	193.4156694 ppb		98
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	22062	205.0477996 ppb		98
82)	Benzylbutyl phthalate	12.554	149	9182	189.6558761 ppb		97
83)	3,3-Dichlorobenzidine	13.183	252	326	8.5354043 ppb	#	31
84)	Benzo(a)anthracene	13.224	228	24444	192.9695201 ppb		96
85)	Chrysene	13.266	228	23082	209.5765006 ppb		94
86)	bis(2-Ethylhexyl)phtha...	13.148	149	16938	230.1101686 ppb		97
87)	Di-n-octyl phthalate	13.907	149	25443	207.1011294 ppb		99
89)	Benzo(b)fluoranthene	14.595	252	23411	195.2765618 ppb		96
90)	Benzo(k)fluoranthene	14.636	252	22731	198.7213452 ppb		99
91)	Benzo(a)pyrene	15.107	252	20794	184.2634189 ppb		97
92)	Indeno(1,2,3-cd)pyrene	17.224	276	24982	192.7603816 ppb		96
93)	Dibenz(a,h)anthracene	17.242	278	21037	188.6893752 ppb		96
94)	Benzo(g,h,i)perylene	17.842	276	21536	198.4707600 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04MRL.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:53:36 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On    : 27 May 2015   7:16 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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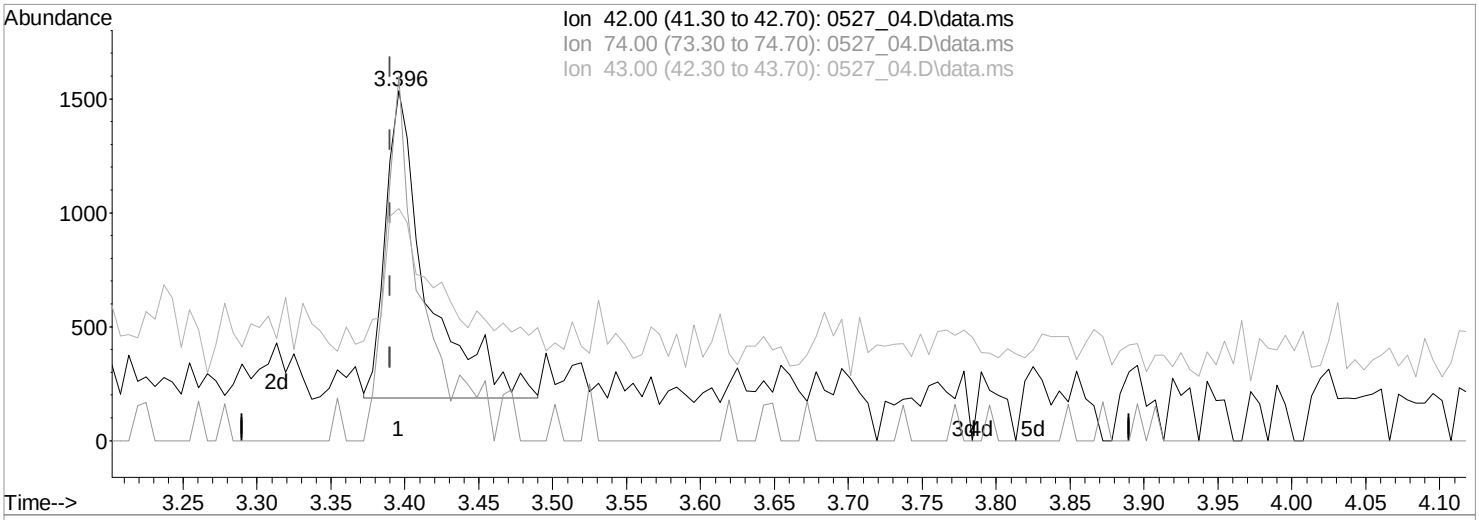
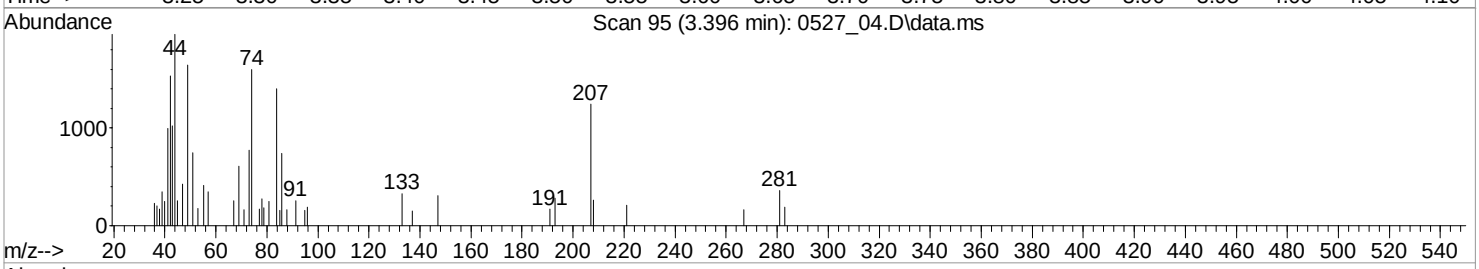
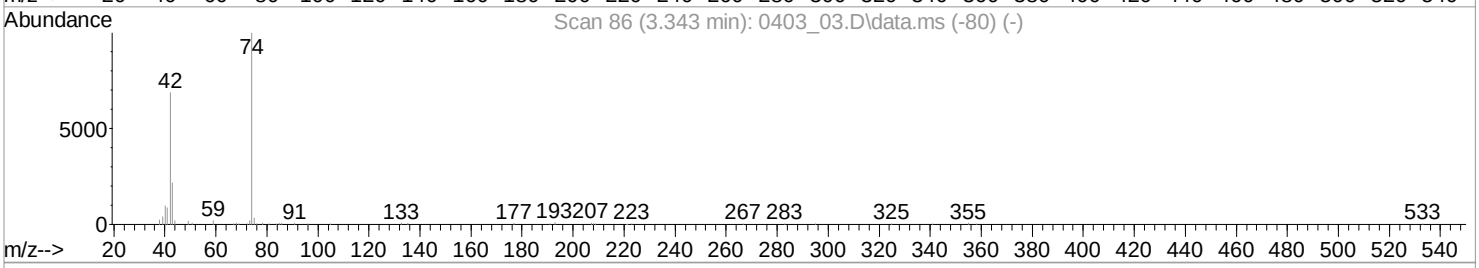






TIC: 0527_04.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.396min (+0.006) 211.5646967 ppb m

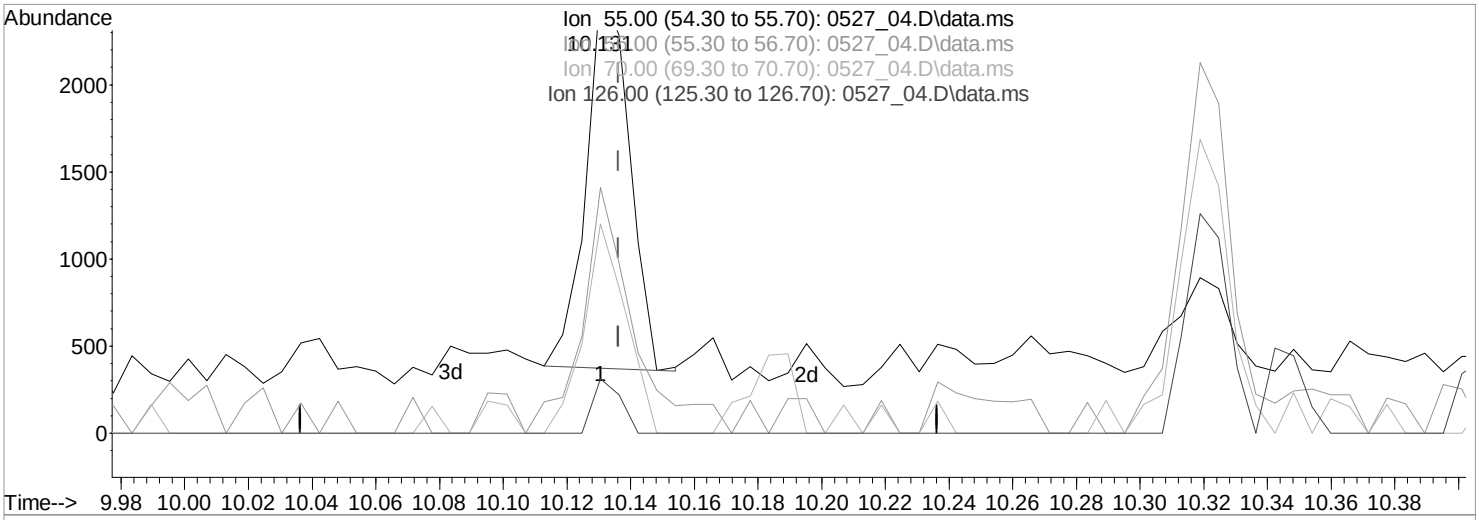
response 2620

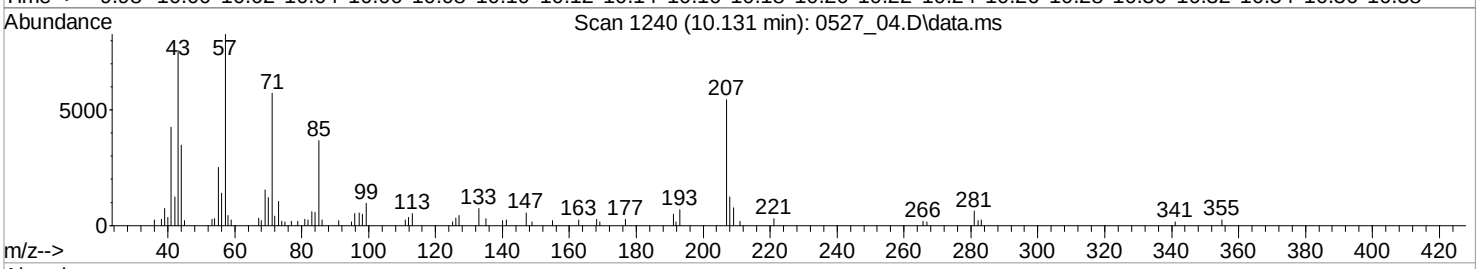
Ion	Exp%	Act%
42.00	100	100
74.00	97.00	104.35
43.00	44.20	71.53#
0.00	0.00	0.00

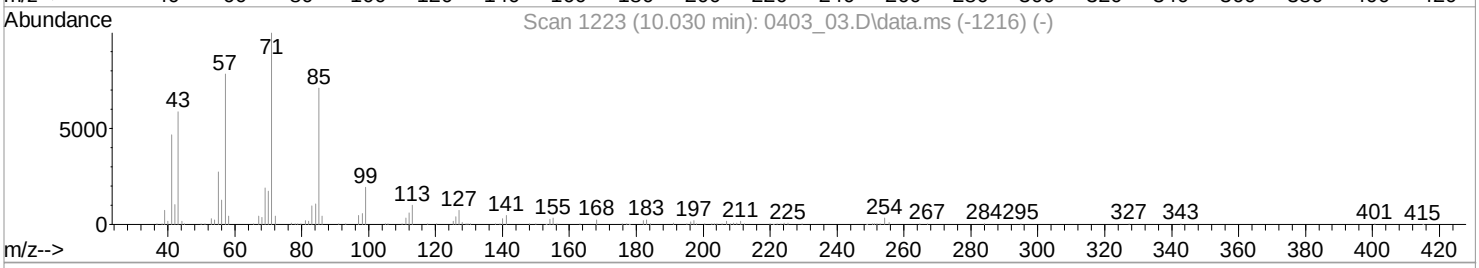
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_04.D\data.ms

(70) n-octadecane (T)

10.131min (-0.006) 211.8072056 ppb m

response 2016

Ion	Exp%	Act%
55.00	100	100
56.00	60.00	79.27#
70.00	45.60	54.76#
126.00	10.60	9.38

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On    : 27 May 2015   7:16 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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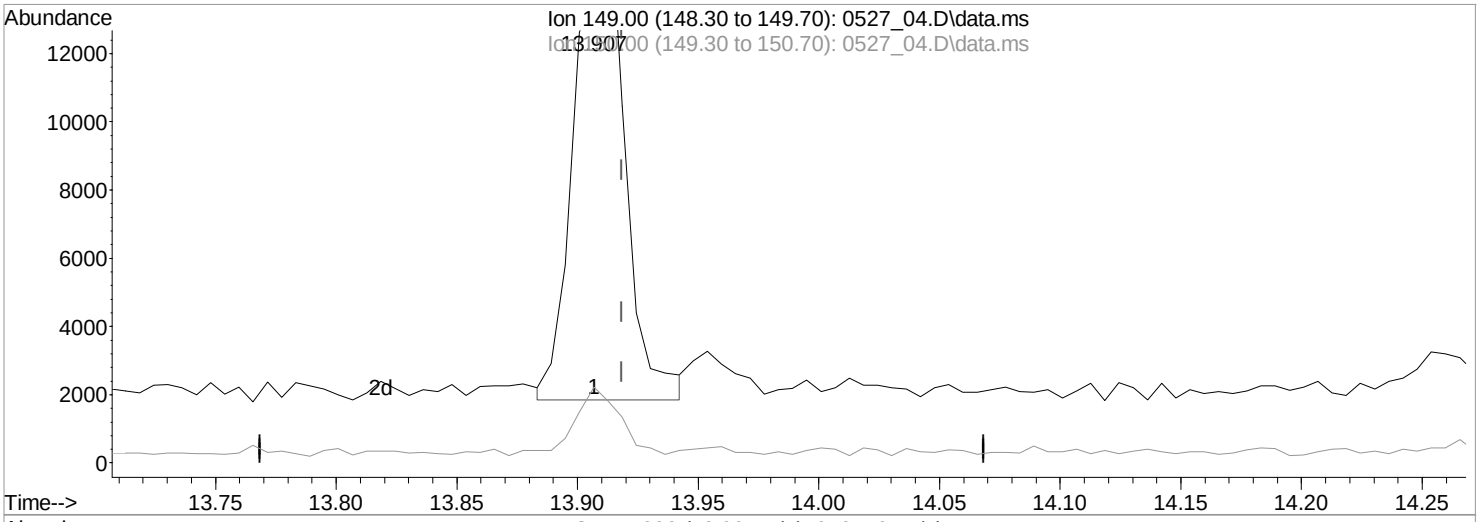
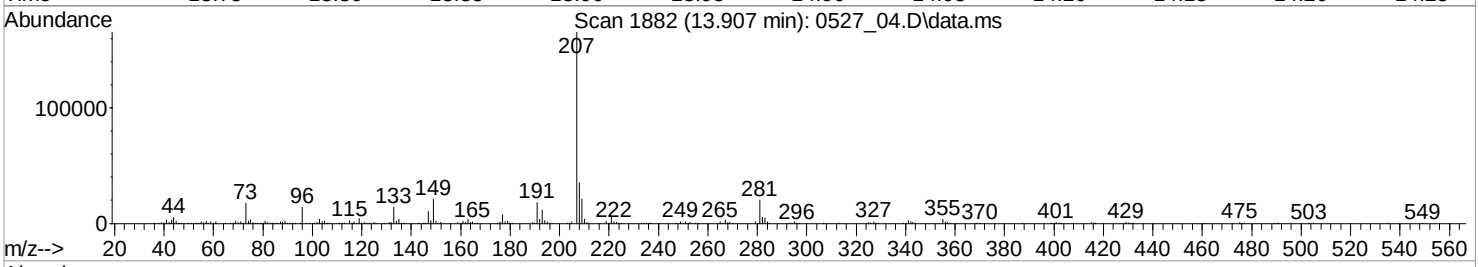
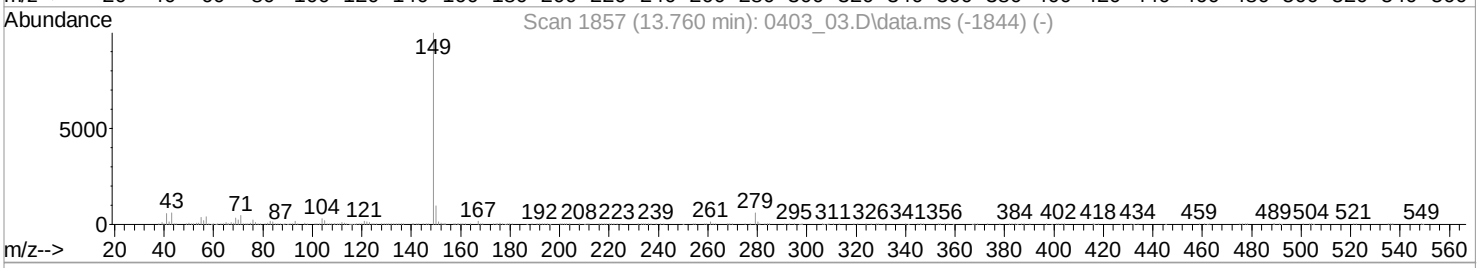






TIC: 0527_04.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.907min (-0.012) 178.4251761 ppb m

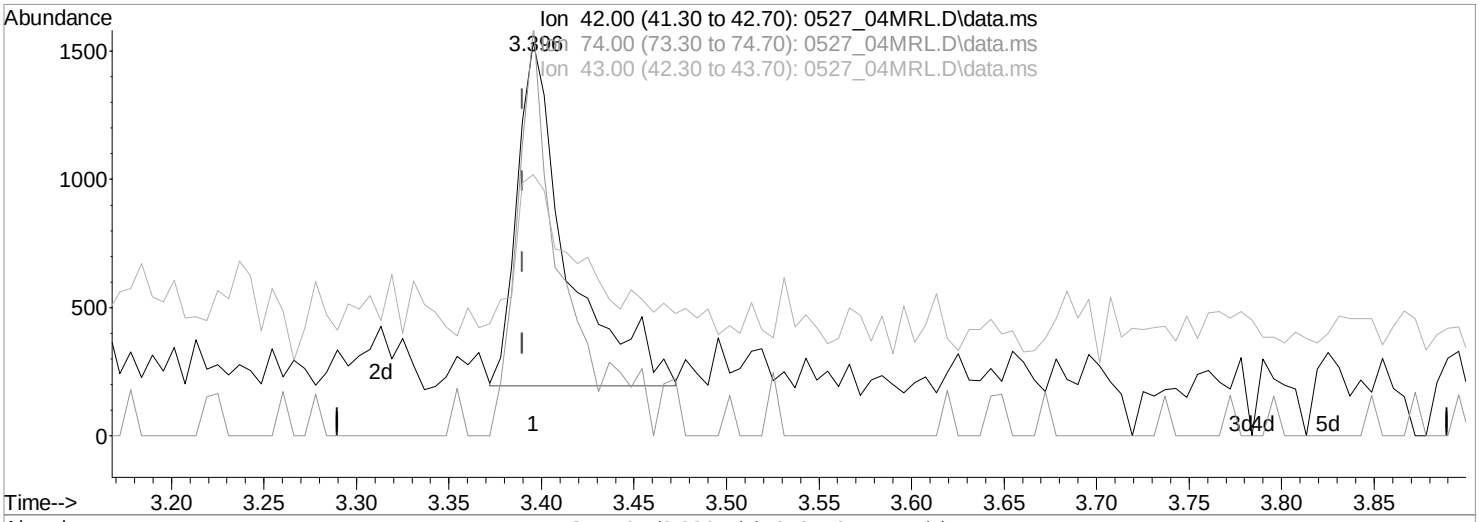
response 22785

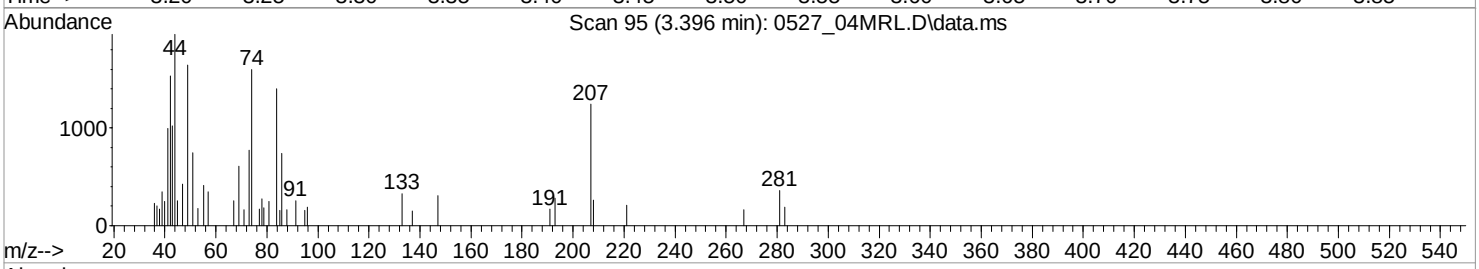
Ion	Exp%	Act%
149.00	100	100
150.00	9.80	10.71
0.00	0.00	0.00
0.00	0.00	0.00

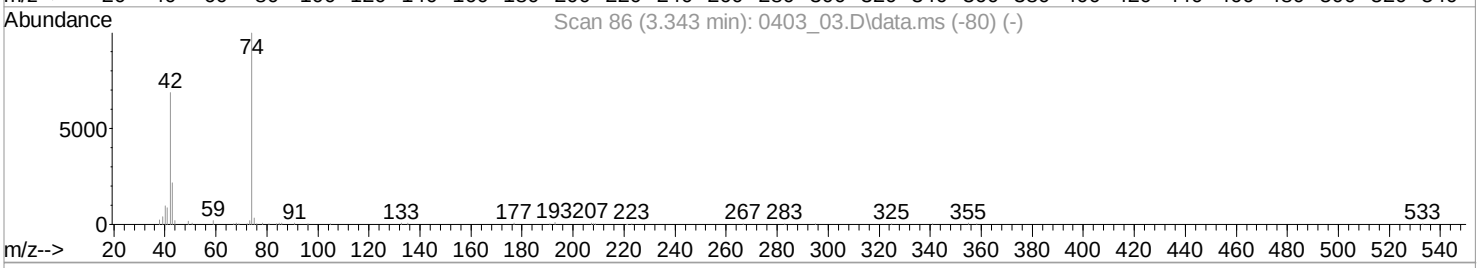
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04MRL.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : MRL SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:46:57 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration







TIC: 0527_04MRL.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.396min (+0.006) 193.0454794 ppb m

response 2510

Ion	Exp%	Act%
42.00	100	100
74.00	97.00	108.92
43.00	44.20	74.66#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06MRL.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:47:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.501	152	141913	8000.0000000 ppb		0.00
22) Naphthalene-d8	6.790	136	545163	8000.0000000 ppb		0.00
40) Acenaphthene-d10	8.684	164	385825	8000.0000000 ppb		0.00
64) Phenanthrene-d10	10.319	188	735406	8000.0000000 ppb		0.00
78) Chrysene-d12	13.236	240	817028	8000.0000000 ppb		0.00
88) Perylene-d12	15.195	264	805688	8000.0000000 ppb		0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.354	112	39969	2097.9616321 ppb		0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 10489.81%#			
7) Phenol-d5	5.101	99	55618	2161.5975630 ppb		0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 10807.99%#			
23) Nitrobenzene-d5	6.037	82	51435	2028.4085698 ppb		0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 20284.09%#			
44) 2-Fluorobiphenyl	7.931	172	136406	2168.5202622 ppb		0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 21685.20%#			
67) 2,4,6-Tribromophenol	9.542	330	22084	1960.2612114 ppb		0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 9801.31%#			
81) p-Terphenyl-d14	12.048	244	199208	2205.8009631 ppb		0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 22058.01%#			
Target Compounds						Qvalue
2) Pyridine	3.425	79	56001	2143.0977734 ppb		99
3) N-Nitrosodimethylamine	3.390	42	32113	2374.2989035 ppb		89
5) Aniline	5.184	66	26825	2175.1736365 ppb		97
6) bis(2-Chloroethyl)ether	5.225	63	36899	2195.7768021 ppb		96
8) Phenol	5.113	94	57437	2172.1615141 ppb		95
9) Benzaldehyde	0.000		0	N.D.		
10) 2-Chlorophenol	5.296	128	50013	2132.6991626 ppb		97
11) n-Decane	5.313	41	31866	2113.6269204 ppb	#	90
12) 1,3-Dichlorobenzene	5.448	146	59025	2178.3754277 ppb		99
13) 1,4-Dichlorobenzene	5.519	146	60625	2184.8371109 ppb		99
14) Benzyl Alcohol	5.607	79	41177	2088.4815903 ppb		100
15) 1,2-Dichlorobenzene	5.666	146	57508	2159.6935320 ppb		96
16) bis(2-Chloroisopropyl)...	5.737	121	16639	2137.1388934 ppb		97
17) 2-Methylphenol	5.690	108	42418	2088.1597194 ppb		99
18) Hexachloroethane	6.007	117	24921	2113.9738073 ppb		96
19) N-Nitrosodi-n-propylamine	5.860	70	30521	2071.1025519 ppb		97
20) 3&4-Methyl phenol	5.837	107	49758	2107.6296901 ppb		97
21) Acetophenone	5.837	105	536	16.6478123 ppb	#	1
24) Nitrobenzene	6.054	77	53977	2084.3351375 ppb		96
25) Isophorone	6.290	82	92547	2041.6695269 ppb		99
26) 2-Nitrophenol	6.378	139	25897	1998.4095268 ppb		96
27) 2,4-Dimethylphenol	6.390	107	52312	2126.3682638 ppb		97
28) bis(2-Chlorethoxy)methane	6.495	93	62317	2151.4421267 ppb		99
29) 2,4-Dichlorophenol	6.619	162	47019	2090.2141534 ppb		94
30) Benzoic Acid	6.390	105	1729	499.1157560 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.719	180	57045	2164.4941440 ppb		98
32) Naphthalene	6.813	128	162445	2138.4090627 ppb		98
33) 4-Chloroaniline	6.848	65	20447	2142.2256591 ppb		97
34) Hexachloro-1,3-butadiene	6.931	225	34321	2121.7797693 ppb		96
35) Caprolactam	7.337	113	1453	203.6636833 ppb	#	64
36) 4-Chloro-3-methylphenol	7.337	107	46129	2081.9749632 ppb		97
37) 2-Methylnaphthalene	7.548	142	118053	2160.9682888 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06MRL.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:47:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

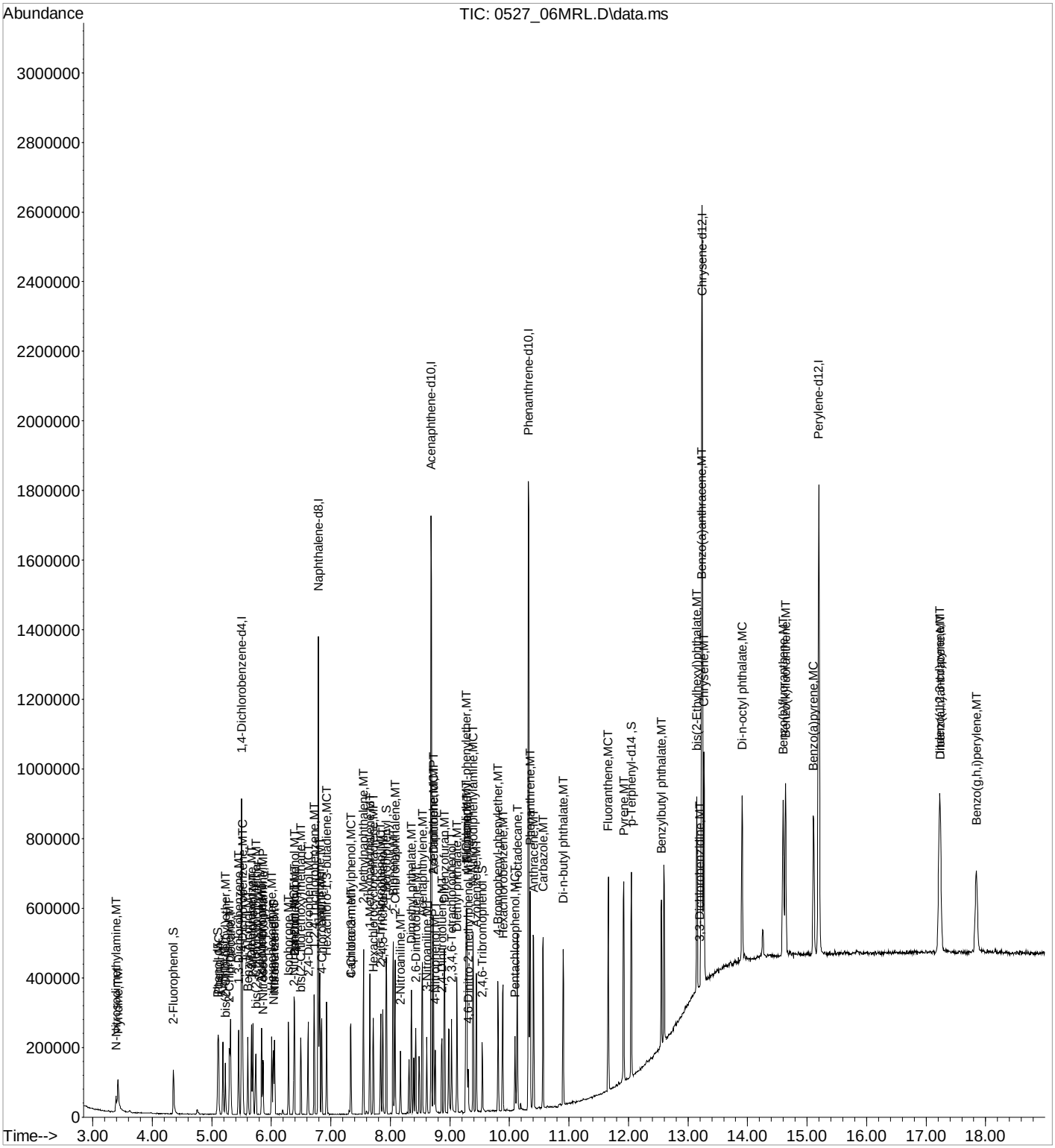
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	105439	2158.3960437 ppb		99
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	40473	1986.7381585 ppb		97
42)	2,4,6-Trichlorophenol	7.837	196	36922	2033.2440430 ppb		94
43)	2,4,5-Trichlorophenol	7.872	196	39841	2056.5563084 ppb		98
45)	Biphenyl	8.048	154	147362	2157.2099981 ppb		100
46)	2-Chloronaphthalene	8.078	162	118284	2110.6921812 ppb		99
47)	2-Nitroaniline	8.172	138	30510	1898.5562982 ppb		97
48)	Acenaphthylene	8.537	152	183893	2165.3256494 ppb		99
49)	Dimethyl phthalate	8.354	163	132097	2122.4430884 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	28356	2036.6530438 ppb		99
51)	3-Nitroaniline	8.613	138	29239	2061.6591244 ppb		97
52)	Acenaphthene	8.725	153	122446	2177.9986753 ppb		99
53)	2,4-Dinitrophenol	8.725	184	12474	1992.7507331 ppb	#	22
54)	Dibenzofuran	8.907	168	176278	2168.1048357 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	36083	1979.0237371 ppb		98
56)	2,3,4,6-Tetrachlorophenol	9.031	232	34362	2473.9011737 ppb		93
57)	4-Nitrophenol	8.754	139	24125	2028.9880574 ppb		95
58)	Fluorene	9.284	166	147332	2169.4354021 ppb		99
59)	4-Chlorophenyl-phenyle...	9.272	204	72959	2152.7818062 ppb		93
60)	Diethyl phthalate	9.119	149	136373	2178.7590241 ppb		99
61)	4-Nitroaniline	9.278	138	30903	2322.8076716 ppb		99
62)	Azobenzene	9.442	77	135880	2122.4792848 ppb		98
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	18692	2060.5303126 ppb		94
66)	N-Nitrosodiphenylamine	9.389	169	123266	2163.0006743 ppb		98
68)	4-Bromophenyl-phenylether	9.807	248	42275	2061.3138435 ppb		96
69)	Hexachlorobenzene	9.889	284	49097	2042.5380466 ppb		99
70)	n-octadecane	10.131	55	21399	2095.3025886 ppb		98
71)	Pentachlorophenol	10.095	266	26601	1912.8683508 ppb		92
72)	Phenanthrene	10.348	178	228056	2141.5761788 ppb		100
73)	Anthracene	10.407	178	218346	2139.9562334 ppb		99
74)	Carbazole	10.566	167	205714	2198.2637188 ppb		100
75)	Di-n-butyl phthalate	10.901	149	232178	2081.2250676 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	247381	2139.8599234 ppb		99
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	262946	2241.6452190 ppb		99
82)	Benzylbutyl phthalate	12.554	149	107751	2041.4577732 ppb		96
83)	3,3-Dichlorobenzidine	13.195	252	1355	32.5413726 ppb	#	31
84)	Benzo(a)anthracene	13.224	228	268281	2222.8306185 ppb		99
85)	Chrysene	13.266	228	259595	2161.9992974 ppb		100
86)	bis(2-Ethylhexyl)phtha...	13.148	149	165932	2067.7303733 ppb		99
87)	Di-n-octyl phthalate	13.907	149	277651	2073.0198880 ppb		100
89)	Benzo(b)fluoranthene	14.595	252	273303	2134.6157058 ppb		99
90)	Benzo(k)fluoranthene	14.636	252	256077	2096.2433427 ppb		98
91)	Benzo(a)pyrene	15.107	252	257256	2134.5766021 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.224	276	297879	2152.1652127 ppb		99
93)	Dibenz(a,h)anthracene	17.236	278	254786	2139.8550046 ppb		99
94)	Benzo(g,h,i)perylene	17.842	276	252531	2179.1711237 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06MRL.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : MRL SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:47:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14MRL.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:47:19 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	153197	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	578858	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.683	164	399999	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	761267	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	826327	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	832912	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	8.001	172	171	2.6221503 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 26.22%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.042	244	57	0.6240500 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 6.24%#	
Target Compounds					Qvalue
2) Pyridine	3.401	79	59	2.0915591 ppb #	27
3) N-Nitrosodimethylamine	3.390	42	1060	72.5992774 ppb #	11
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	5.101	63	833	45.9187987 ppb #	7
8) Phenol	5.113	94	55	1.9267926 ppb #	1
9) Benzaldehyde	5.101	105	22735	1908.4787505 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.301	41	454	27.8951405 ppb #	75
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.872	107	327	12.8307211 ppb #	1
21) Acetophenone	5.878	105	65917	1896.5388137 ppb	100
24) Nitrobenzene	6.089	77	61	2.2184159 ppb #	32
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.401	105	21096	1910.9218995 ppb #	58
31) 1,2,4-Trichlorobenzene	6.719	180	236	8.4334479 ppb #	77
32) Naphthalene	6.813	128	169	2.0952000 ppb	70
33) 4-Chloroaniline	6.789	65	1807	178.2986708 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.178	113	13236	1747.2661808 ppb	93
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14MRL.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:47:19 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

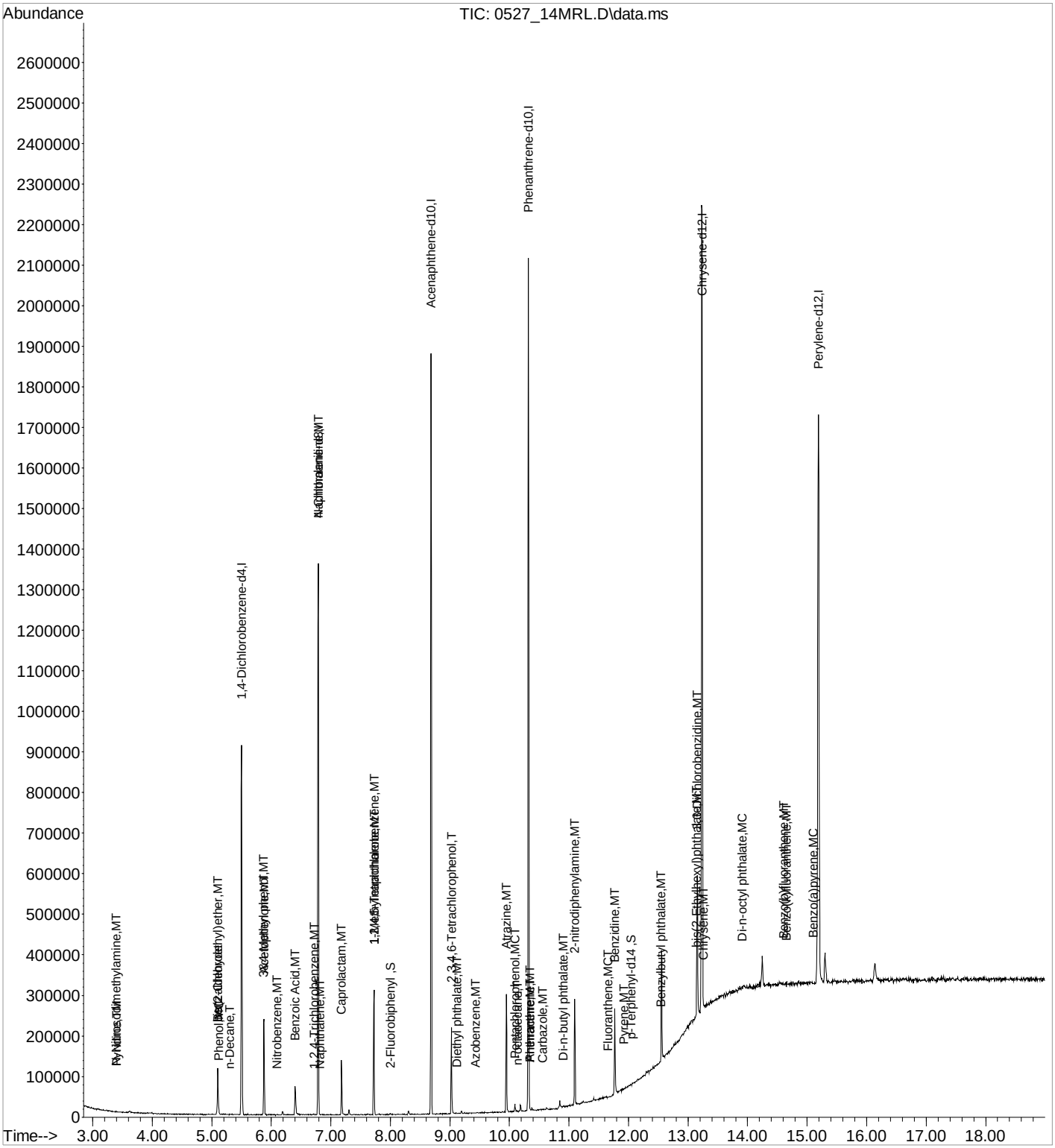
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.725	142	377	7.2681778 ppb #	31
39) 1,2,4,5-Tetrachloroben...	7.725	216	55401	1986.7996163 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	9.025	232	25802	1791.7967450 ppb	98
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	9.119	149	59	0.9092102 ppb #	62
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.425	77	54	0.8136041 ppb #	1
63) Atrazine	9.948	200	30493	1752.9120854 ppb	98
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	10.136	55	1308	123.7232101 ppb #	37
71) Pentachlorophenol	10.089	266	2446	169.9157888 ppb	94
72) Phenanthrene	10.342	178	62	0.5624370 ppb #	14
73) Anthracene	10.342	178	62	0.5870046 ppb	64
74) Carbazole	10.560	167	128	1.3213445 ppb #	62
75) Di-n-butyl phthalate	10.901	149	588	5.0917313 ppb	78
76) 2-nitrodiphenylamine	11.095	167	32078	1916.0574582 ppb	90
77) Fluoranthene	11.660	202	75	0.6267155 ppb #	59
79) Benzidine	11.771	184	86761	1739.4792211 ppb	99
80) Pyrene	11.919	202	89	0.7501970 ppb #	58
82) Benzylbutyl phthalate	12.542	149	721	13.5063921 ppb #	1
83) 3,3-Dichlorobenzidine	13.154	252	83519	1983.2015597 ppb	98
84) Benzo(a)anthracene	13.230	228	2072	Below Cal #	1
85) Chrysene	13.260	228	113	0.9305135 ppb #	53
86) bis(2-Ethylhexyl)phtha...	13.142	149	2974	36.6428901 ppb	90
87) Di-n-octyl phthalate	13.907	149	492	3.6320710 ppb	95
89) Benzo(b)fluoranthene	14.607	252	555	4.1931081 ppb	75
90) Benzo(k)fluoranthene	14.654	252	869	6.8811128 ppb #	55
91) Benzo(a)pyrene	15.107	252	1157	9.2863996 ppb #	61
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14MRL.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : MRL TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:47:19 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 20.D
Acq On : 28 May 2015 1:28 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 sscv
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 28 16:47:28 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	161063	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	612762	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	421137	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	800747	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	904507	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	887145	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	6.001	82	34076	1195.5833268 ppb	-0.04
Spiked Amount 10.000	Range 12 - 120		Recovery = 11955.83%#		
44) 2-Fluorobiphenyl	7.872	172	427	6.2190615 ppb	-0.06
Spiked Amount 10.000	Range 26 - 122		Recovery = 62.19%		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	3.419	79	282239	9516.7711179 ppb	99
3) N-Nitrosodimethylamine	3.390	42	136611	8899.5199295 ppb	95
5) Aniline	5.184	66	131032	9361.7699972 ppb	98
6) bis(2-Chloroethyl)ether	5.225	63	181868	9535.7813380 ppb	98
8) Phenol	5.113	94	288560	9615.3011929 ppb	92
9) Benzaldehyde	5.101	105	717	57.2487492 ppb #	1
10) 2-Chlorophenol	5.296	128	259846	9763.1311856 ppb	99
11) n-Decane	5.301	41	1148	67.0917415 ppb #	1
12) 1,3-Dichlorobenzene	5.449	146	298167	9695.7789653 ppb	98
13) 1,4-Dichlorobenzene	5.513	146	306838	9743.2277089 ppb	99
14) Benzyl Alcohol	5.601	79	213182	9526.9278935 ppb	100
15) 1,2-Dichlorobenzene	5.666	146	293363	9707.2362330 ppb	95
16) bis(2-Chloroisopropyl)...	5.737	121	102035	11547.3170974 ppb	93
17) 2-Methylphenol	5.690	108	225984	9802.0658249 ppb	99
18) Hexachloroethane	6.001	117	129595	9686.0962373 ppb	100
19) N-Nitrosodi-n-propylamine	5.860	70	160517	9597.3266421 ppb	95
20) 3&4-Methyl phenol	5.837	107	256374	9568.2335705 ppb	99
21) Acetophenone	5.837	105	2512	68.7445721 ppb #	1
24) Nitrobenzene	6.054	77	277730	9541.4888837 ppb	93
25) Isophorone	6.290	82	500145	9816.4301516 ppb	99
26) 2-Nitrophenol	6.378	139	149708	10278.1414655 ppb	91
27) 2,4-Dimethylphenol	6.384	107	263564	9531.4241294 ppb	99
28) bis(2-Chlorethoxy)methane	6.495	93	326844	10039.1789340 ppb	99
29) 2,4-Dichlorophenol	6.613	162	244635	9675.4357956 ppb	99
30) Benzoic Acid	6.384	105	9096	997.9520422 ppb #	1
31) 1,2,4-Trichlorobenzene	6.719	180	287126	9692.7251793 ppb	99
32) Naphthalene	6.813	128	828992	9708.8842883 ppb	99
33) 4-Chloroaniline	6.843	65	98394	9171.4664967 ppb	93
34) Hexachloro-1,3-butadiene	6.931	225	197653	10871.2211163 ppb	96
35) Caprolactam	7.331	113	7497	934.9105016 ppb #	37
36) 4-Chloro-3-methylphenol	7.331	107	239744	9626.8400811 ppb	99
37) 2-Methylnaphthalene	7.548	142	575284	9368.8914920 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 20.D
Acq On : 28 May 2015 1:28 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 sscv
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 28 16:47:28 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration

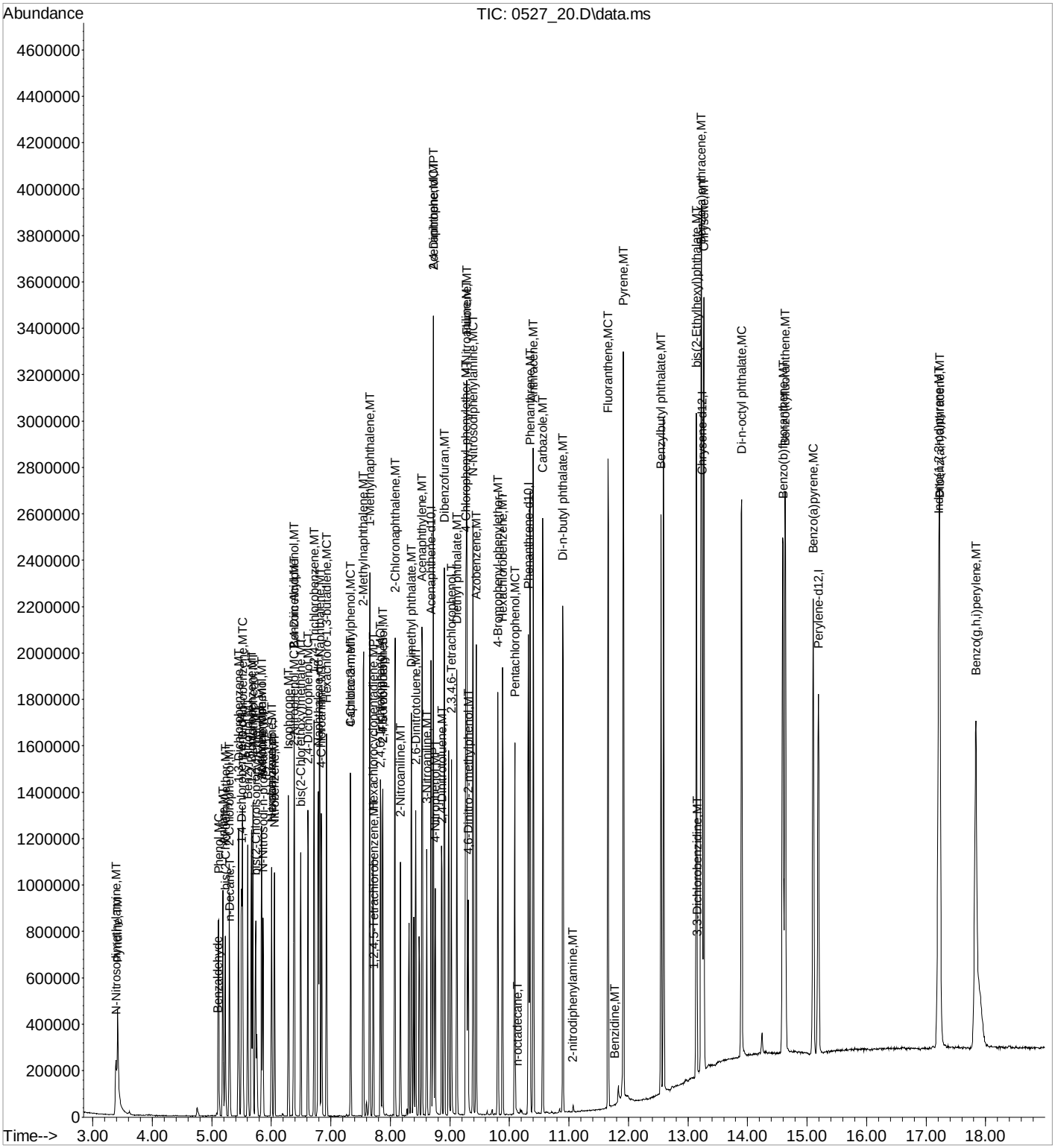
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	554524	10099.1483790 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	296	10.0278629 ppb	#	30
41)	Hexachlorocyclopentadiene	7.713	237	181544	8164.3967673 ppb		96
42)	2,4,6-Trichlorophenol	7.837	196	199247	10052.2445952 ppb		91
43)	2,4,5-Trichlorophenol	7.872	196	207262	9801.6011208 ppb		98
45)	Biphenyl	0.000		0	N.D.		
46)	2-Chloronaphthalene	8.078	162	598964	9791.8913281 ppb		98
47)	2-Nitroaniline	8.166	138	186746	10646.3207473 ppb		94
48)	Acenaphthylene	8.531	152	933393	10069.0738898 ppb		99
49)	Dimethyl phthalate	8.354	163	670683	9872.5050202 ppb		97
50)	2,6-Dinitrotoluene	8.425	165	161208	10607.8077132 ppb		95
51)	3-Nitroaniline	8.613	138	168900	10910.6584447 ppb		93
52)	Acenaphthene	8.719	153	633810	10328.5429948 ppb		99
53)	2,4-Dinitrophenol	8.719	184	89266	8809.4837298 ppb	#	80
54)	Dibenzofuran	8.907	168	869965	9802.8173331 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	211608	10632.7943265 ppb		94
56)	2,3,4,6-Tetrachlorophenol	9.025	232	174231	11492.0182813 ppb		100
57)	4-Nitrophenol	8.754	139	139928	10781.6135542 ppb		93
58)	Fluorene	9.284	166	746409	10069.1653292 ppb		100
59)	4-Chlorophenyl-phenyle...	9.266	204	359813	9726.6873807 ppb		96
60)	Diethyl phthalate	9.119	149	695035	10173.1265089 ppb		100
61)	4-Nitroaniline	9.278	138	165821	11418.7642186 ppb		97
62)	Azobenzene	9.442	77	719776	10300.3563416 ppb		97
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	129405	9524.5389640 ppb		89
66)	N-Nitrosodiphenylamine	9.389	169	614050	9895.7550317 ppb		100
68)	4-Bromophenyl-phenylether	9.807	248	218487	9784.0340124 ppb		94
69)	Hexachlorobenzene	9.883	284	255721	9770.4246909 ppb		98
70)	n-octadecane	10.131	55	311	27.9669759 ppb	#	29
71)	Pentachlorophenol	10.089	266	178427	11783.6420233 ppb		98
72)	Phenanthrene	10.348	178	1115081	9616.7934693 ppb		100
73)	Anthracene	10.401	178	1129773	10169.1040499 ppb		99
74)	Carbazole	10.560	167	1028303	10091.8060335 ppb		100
75)	Di-n-butyl phthalate	10.895	149	1201293	9889.6011642 ppb		100
76)	2-nitrodiphenylamine	11.066	167	883	739.8742055 ppb	#	35
77)	Fluoranthene	11.654	202	1250876	9937.2247628 ppb		99
79)	Benzidine	11.766	184	846	15.4954813 ppb	#	77
80)	Pyrene	11.913	202	1328809	10232.6443322 ppb		100
82)	Benzylbutyl phthalate	12.548	149	612564	10483.2409971 ppb		97
83)	3,3-Dichlorobenzidine	13.154	252	393	8.5253876 ppb	#	82
84)	Benzo(a)anthracene	13.219	228	1373353	10390.3356886 ppb		98
85)	Chrysene	13.266	228	1338521	10069.5351536 ppb		98
86)	bis(2-Ethylhexyl)phtha...	13.142	149	872308	9818.8047250 ppb		99
87)	Di-n-octyl phthalate	13.901	149	1510527	10187.2679005 ppb		100
89)	Benzo(b)fluoranthene	14.595	252	1375244	9755.0016353 ppb		99
90)	Benzo(k)fluoranthene	14.630	252	1329641	9885.0258063 ppb		99
91)	Benzo(a)pyrene	15.107	252	1274822	9606.5637193 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.212	276	1542450	10120.8992344 ppb		99
93)	Dibenz(a,h)anthracene	17.230	278	1361424	10384.2342034 ppb		95
94)	Benzo(g,h,i)perylene	17.836	276	1326543	10396.0953777 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 20.D
Acq On : 28 May 2015 1:28 am
Operator : 377
Sample : SSCV SVMS 10K PPB 15D30945
Misc : 8270 sscv
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 28 16:47:28 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 20.D
Acq On    : 28 May 2015   1:28 am
Operator  : 377
Sample    : SSCV SVMS 10K PPB 15D30945
Misc      : 8270 sscv
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: May 28 16:47:28 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:43:04 2015
Response via : Initial Calibration
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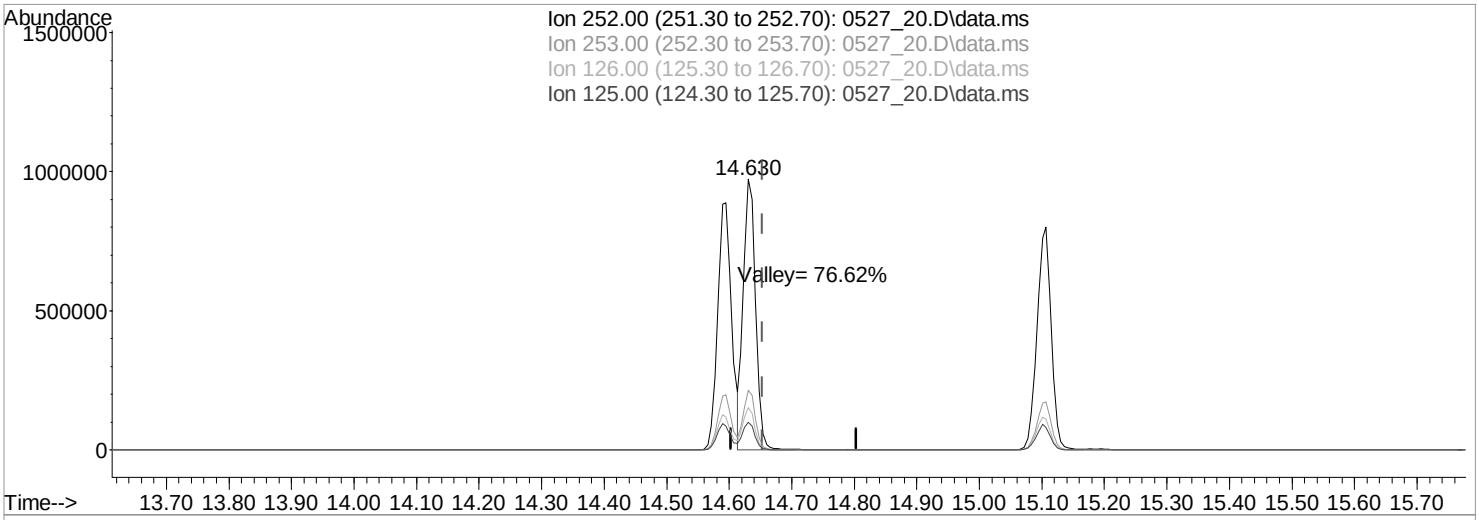
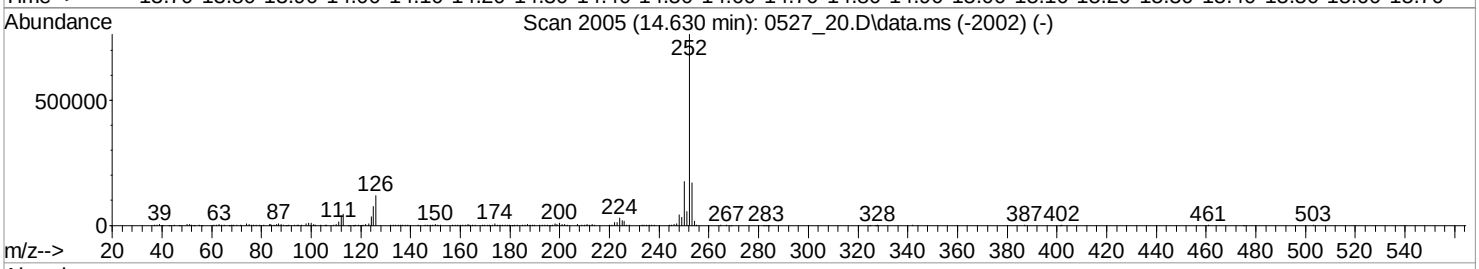
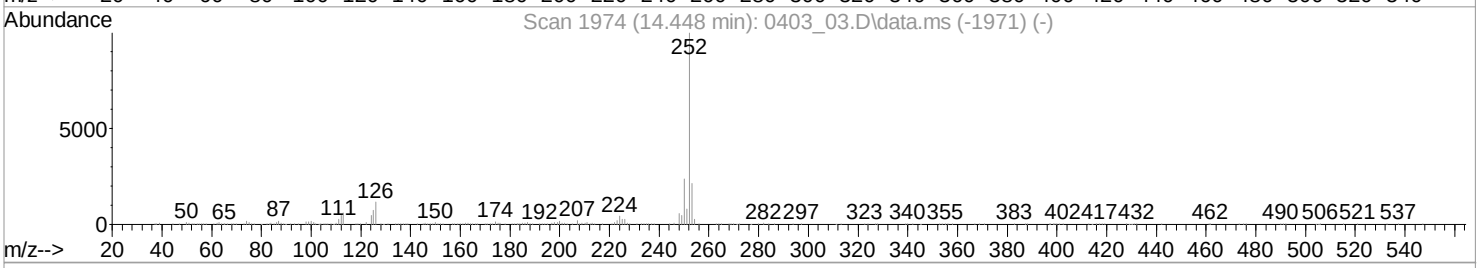






TIC: 0527_20.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.630min (-0.023) 9885.0258063 ppb

Qvalue = 99

response 1329641

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.91
126.00	14.60	15.59
125.00	9.70	10.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 02.D
Acq On : 27 May 2015 6:30 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 16:22:25 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	139212	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	525318	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	367900	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	712643	8000.0000000 ppb	0.00
78) Chrysene-d12	13.248	240	811352	8000.0000000 ppb	0.01
88) Perylene-d12	15.207	264	782915	8000.0000000 ppb	0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	180447	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 50000.00%#		
7) Phenol-d5	5.101	99	244342	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 50000.00%#		
23) Nitrobenzene-d5	6.037	82	246708	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 100000.00%#		
44) 2-Fluorobiphenyl	7.936	172	575177	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.548	330	102145	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 50000.00%#		
81) p-Terphenyl-d14	12.054	244	863621	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 100000.00%#		
Target Compounds					Qvalue
2) Pyridine	3.425	79	245671	10000.0000000 ppb	100
3) N-Nitrosodimethylamine	3.390	42	126370	10000.0000000 ppb	100
5) Aniline	5.190	66	121807	10000.0000000 ppb	100
6) bis(2-Chloroethyl)ether	5.231	63	160748	10000.0000000 ppb	100
8) Phenol	5.113	94	253197	10000.0000000 ppb	100
9) Benzaldehyde	5.119	105	550	53.3383811 ppb #	1
10) 2-Chlorophenol	5.301	128	219035	10000.0000000 ppb	100
11) n-Decane	5.319	41	146837	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.454	146	253919	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.519	146	258549	10000.0000000 ppb	100
14) Benzyl Alcohol	5.607	79	187438	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.666	146	250283	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)...	5.742	121	71991	10000.0000000 ppb	100
17) 2-Methylphenol	5.695	108	193991	10000.0000000 ppb	100
18) Hexachloroethane	6.007	117	111772	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.866	70	139965	10000.0000000 ppb	100
20) 3&4-Methyl phenol	5.842	107	226357	10000.0000000 ppb	100
21) Acetophenone	5.842	105	2427	80.5342950 ppb #	1
24) Nitrobenzene	6.054	77	249688	10000.0000000 ppb	100
25) Isophorone	6.295	82	443899	10000.0000000 ppb	100
26) 2-Nitrophenol	6.384	139	124344	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	6.389	107	236349	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.501	93	276220	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.619	162	211086	10000.0000000 ppb	100
30) Benzoic Acid	6.389	105	7654	616.9303953 ppb #	1
31) 1,2,4-Trichlorobenzene	6.725	180	241169	10000.0000000 ppb	100
32) Naphthalene	6.813	128	700574	10000.0000000 ppb	100
33) 4-Chloroaniline	6.848	65	92254	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.931	225	148822	10000.0000000 ppb	100
35) Caprolactam	7.336	113	6780	1000.0621823 ppb #	39
36) 4-Chloro-3-methylphenol	7.336	107	211026	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.548	142	512539	10000.0000000 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 02.D
Acq On : 27 May 2015 6:30 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 16:22:25 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

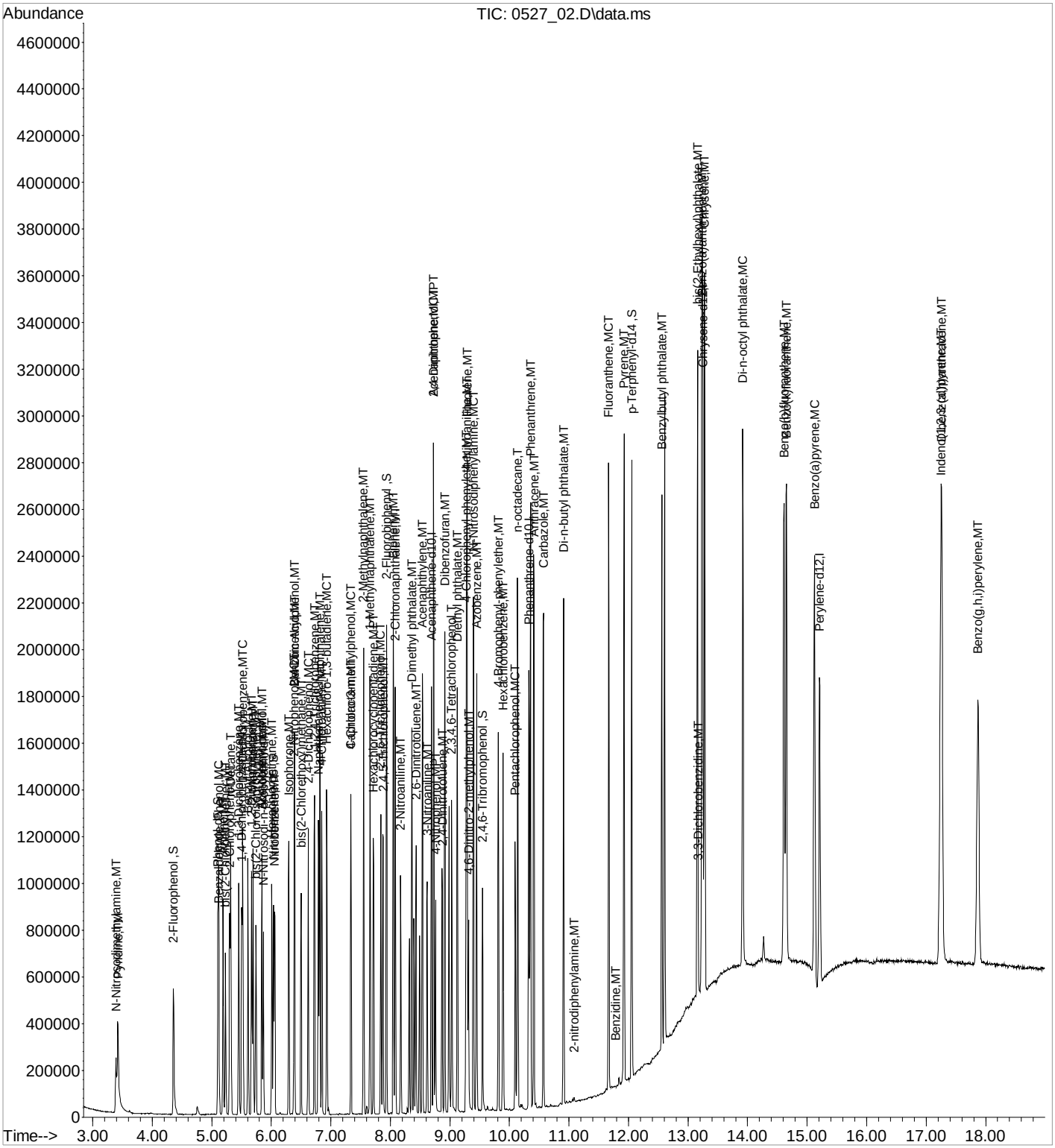
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	7.660	142	455222	10000.0000000 ppb	100
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	7.713	237	186719	10000.0000000 ppb	100
42)	2,4,6-Trichlorophenol	7.836	196	168823	10000.0000000 ppb	100
43)	2,4,5-Trichlorophenol	7.878	196	178819	10000.0000000 ppb	100
45)	Biphenyl	8.048	154	634025	10000.0000000 ppb	100
46)	2-Chloronaphthalene	8.083	162	507860	10000.0000000 ppb	100
47)	2-Nitroaniline	8.172	138	154339	10000.0000000 ppb	100
48)	Acenaphthylene	8.536	152	816578	10000.0000000 ppb	100
49)	Dimethyl phthalate	8.360	163	584704	10000.0000000 ppb	100
50)	2,6-Dinitrotoluene	8.431	165	134485	10000.0000000 ppb	100
51)	3-Nitroaniline	8.619	138	140704	10000.0000000 ppb	100
52)	Acenaphthene	8.725	153	528425	10000.0000000 ppb	100
53)	2,4-Dinitrophenol	8.725	184	76487	10000.0000000 ppb	100
54)	Dibenzofuran	8.913	168	754213	10000.0000000 ppb	100
55)	2,4-Dinitrotoluene	8.872	165	179021	10000.0000000 ppb	100
56)	2,3,4,6-Tetrachlorophenol	9.030	232	157539	11700.4139295 ppb	100
57)	4-Nitrophenol	8.760	139	118542	10000.0000000 ppb	100
58)	Fluorene	9.289	166	629953	10000.0000000 ppb	100
59)	4-Chlorophenyl-phenyle...	9.272	204	309469	10000.0000000 ppb	100
60)	Diethyl phthalate	9.125	149	597521	10000.0000000 ppb	100
61)	4-Nitroaniline	9.283	138	134489	10000.0000000 ppb	100
62)	Azobenzene	9.448	77	635317	10000.0000000 ppb	100
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	9.313	198	104567	10000.0000000 ppb	100
66)	N-Nitrosodiphenylamine	9.395	169	530814	10000.0000000 ppb	100
68)	4-Bromophenyl-phenylether	9.813	248	186227	10000.0000000 ppb	100
69)	Hexachlorobenzene	9.895	284	212101	10000.0000000 ppb	100
70)	n-octadecane	10.136	55	98330	10000.0000000 ppb	100
71)	Pentachlorophenol	10.095	266	128541	10000.0000000 ppb	100
72)	Phenanthrene	10.354	178	974868	10000.0000000 ppb	100
73)	Anthracene	10.413	178	974073	10000.0000000 ppb	100
74)	Carbazole	10.572	167	912754	10000.0000000 ppb	100
75)	Di-n-butyl phthalate	10.907	149	1099885	10000.0000000 ppb	100
76)	2-nitrodiphenylamine	11.083	167	1420	66.4114432 ppb #	1
77)	Fluoranthene	11.666	202	1104803	10000.0000000 ppb	100
79)	Benzidine	11.783	184	333	6.2069927 ppb #	82
80)	Pyrene	11.924	202	1144877	10000.0000000 ppb	100
82)	Benzylbutyl phthalate	12.560	149	536112	10000.0000000 ppb	100
83)	3,3-Dichlorobenzidine	13.171	252	253	5.8444886 ppb	79
84)	Benzo(a)anthracene	13.236	228	1192166	10000.0000000 ppb	100
85)	Chrysene	13.277	228	1168339	10000.0000000 ppb	100
86)	bis(2-Ethylhexyl)phtha...	13.160	149	811542	10000.0000000 ppb	100
87)	Di-n-octyl phthalate	13.918	149	1382532	10000.0000000 ppb	100
89)	Benzo(b)fluoranthene	14.612	252	1174189	10000.0000000 ppb	100
90)	Benzo(k)fluoranthene	14.654	252	1162893	10000.0000000 ppb	100
91)	Benzo(a)pyrene	15.124	252	1139354	10000.0000000 ppb	100
92)	Indeno(1,2,3-cd)pyrene	17.248	276	1351273	10000.0000000 ppb	100
93)	Dibenz(a,h)anthracene	17.259	278	1160567	10000.0000000 ppb	100
94)	Benzo(g,h,i)perylene	17.871	276	1129739	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 02.D
Acq On : 27 May 2015 6:30 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

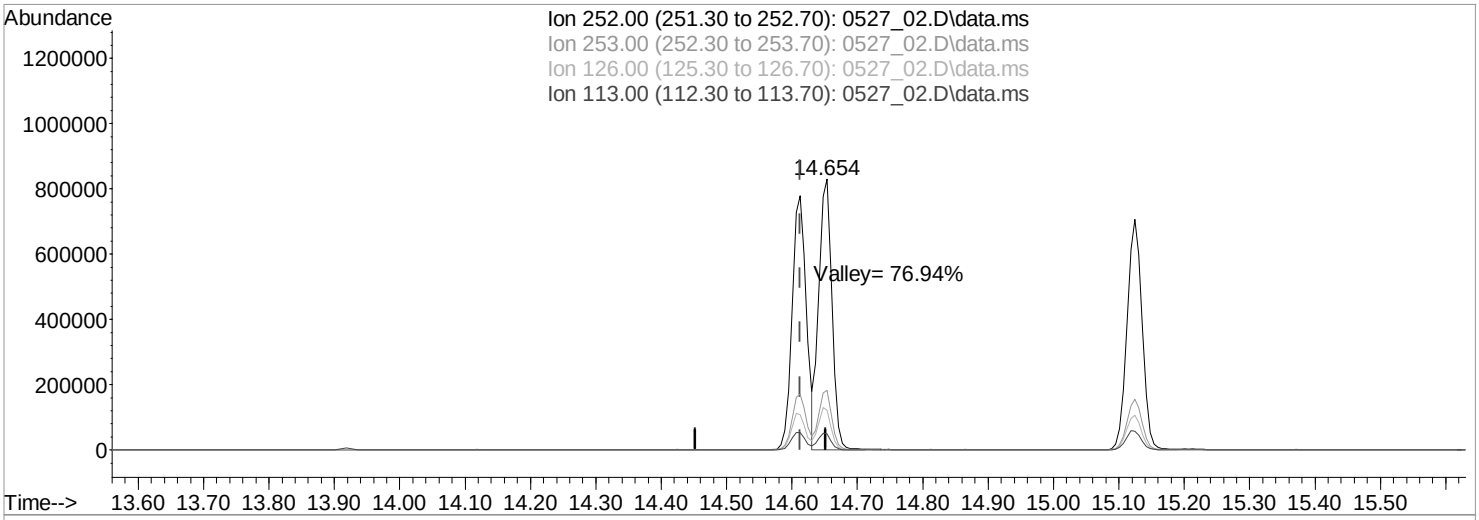
Quant Time: May 28 16:22:25 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

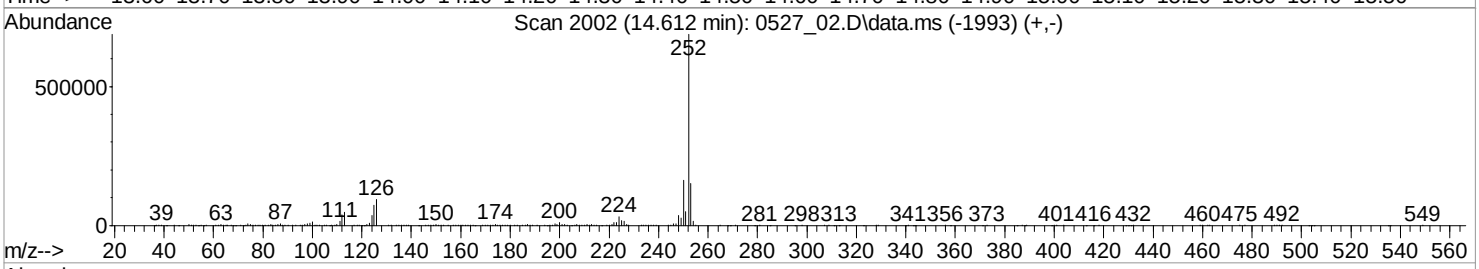


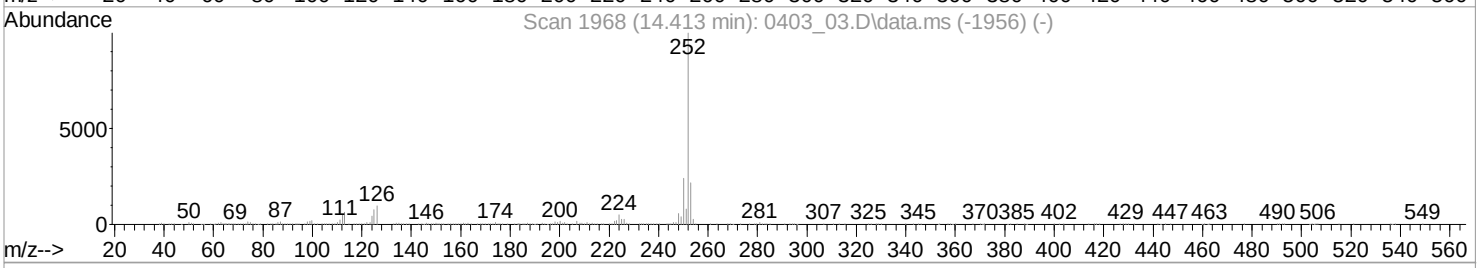
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 02.D
Acq On : 27 May 2015 6:30 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 16:22:25 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_02.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.612min (+0.000) 10000.0000000 ppb

Qvalue = 100

response 1174189

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.86
126.00	13.60	13.61
113.00	6.70	6.74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:28:01 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	145691	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	556547	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	384257	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	732519	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	787299	8000.0000000 ppb	0.00
88) Perylene-d12	15.201	264	781858	8000.0000000 ppb	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 26 - 122		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D. d	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D. d	
13) 1,4-Dichlorobenzene	0.000		0	N.D. d	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D. d	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D. d	
17) 2-Methylphenol	0.000		0	N.D. d	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D. d	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D. d	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	6.813	128	3550	47.8293825 ppb	97
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D. d	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d	
37) 2-Methylnaphthalene	7.548	142	2278	41.9514753 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:28:01 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

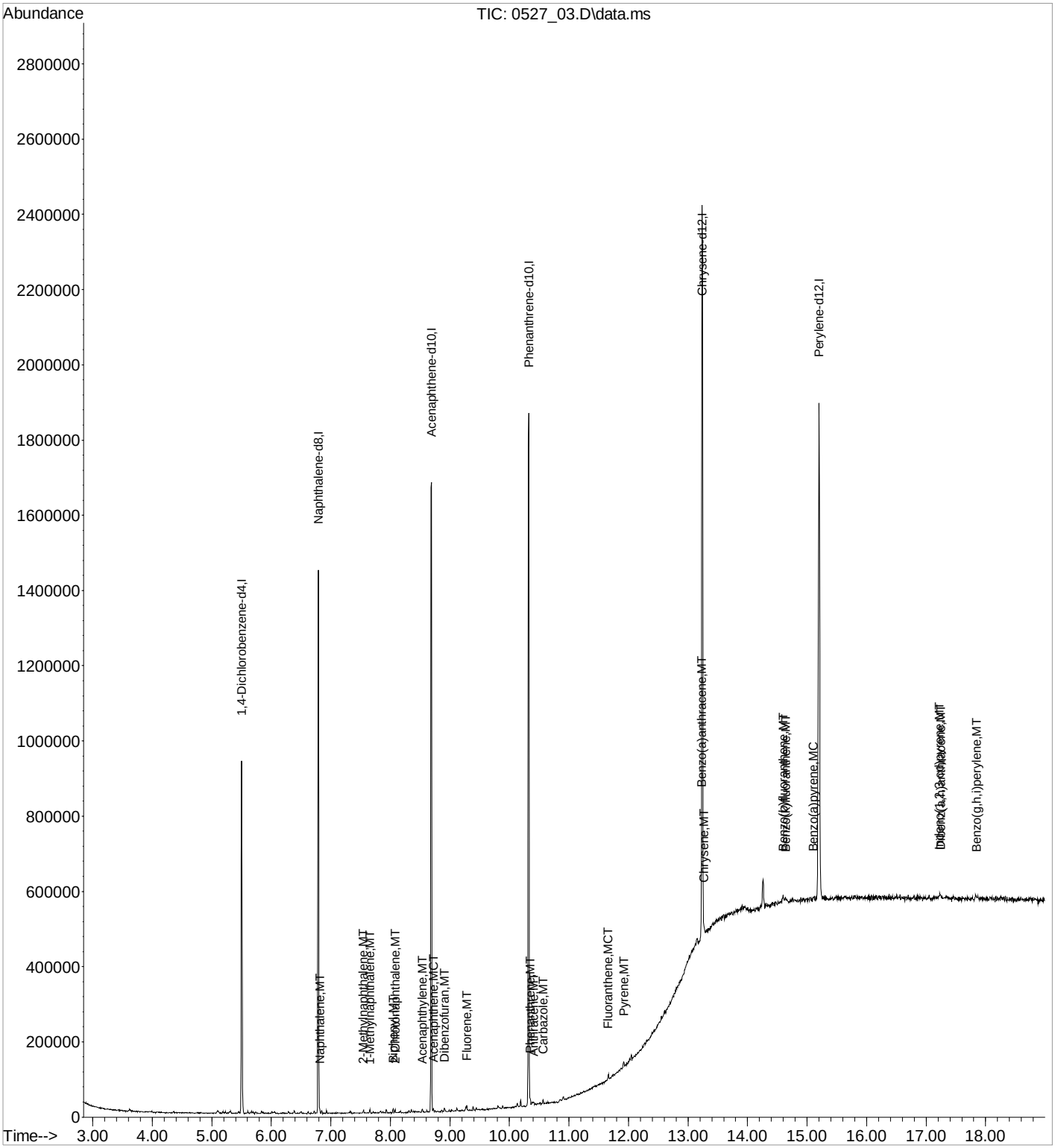
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	2042	42.3402026 ppb		94
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	0.000		0	N.D. d		
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d		
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d		
45)	Biphenyl	8.048	154	2728	41.1951400 ppb		97
46)	2-Chloronaphthalene	8.078	162	2463	46.4331774 ppb		92
47)	2-Nitroaniline	0.000		0	N.D. d		
48)	Acenaphthylene	8.537	152	3182	37.3087330 ppb		96
49)	Dimethyl phthalate	0.000		0	N.D. d		
50)	2,6-Dinitrotoluene	0.000		0	N.D. d		
51)	3-Nitroaniline	0.000		0	N.D. d		
52)	Acenaphthene	8.719	153	2035	36.8713516 ppb		92
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	8.907	168	3231	41.0157771 ppb	#	96
55)	2,4-Dinitrotoluene	0.000		0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	0.000		0	N.D. d		
58)	Fluorene	9.284	166	2832	43.0420652 ppb		91
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
60)	Diethyl phthalate	0.000		0	N.D. d		
61)	4-Nitroaniline	0.000		0	N.D. d		
62)	Azobenzene	0.000		0	N.D. d		
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D. d		
68)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
69)	Hexachlorobenzene	0.000		0	N.D. d		
70)	n-octadecane	0.000		0	N.D. d		
71)	Pentachlorophenol	0.000		0	N.D. d		
72)	Phenanthrene	10.348	178	4711m	47.0132656 ppb		
73)	Anthracene	10.407	178	3819	38.1426869 ppb		93
74)	Carbazole	10.566	167	3852	41.0568535 ppb		96
75)	Di-n-butyl phthalate	0.000		0	N.D. d		
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	4772	42.0212261 ppb		93
79)	Benzidine	0.000		0	N.D. d		
80)	Pyrene	11.919	202	4931	44.3859769 ppb		97
82)	Benzylbutyl phthalate	0.000		0	N.D. d		
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	7204	62.2739744 ppb		83
85)	Chrysene	13.272	228	4759	41.9774876 ppb		91
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
87)	Di-n-octyl phthalate	0.000		0	N.D. d		
89)	Benzo(b)fluoranthene	14.601	252	5081m	43.3309207 ppb		
90)	Benzo(k)fluoranthene	14.636	252	5301m	45.6462156 ppb		
91)	Benzo(a)pyrene	15.107	252	5060	44.4711710 ppb		96
92)	Indeno(1,2,3-cd)pyrene	17.218	276	5106	37.8376749 ppb		91
93)	Dibenz(a,h)anthracene	17.242	278	4651	40.1294171 ppb		81
94)	Benzo(g,h,i)perylene	17.848	276	4821	42.7312640 ppb		80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:28:01 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On    : 27 May 2015   6:53 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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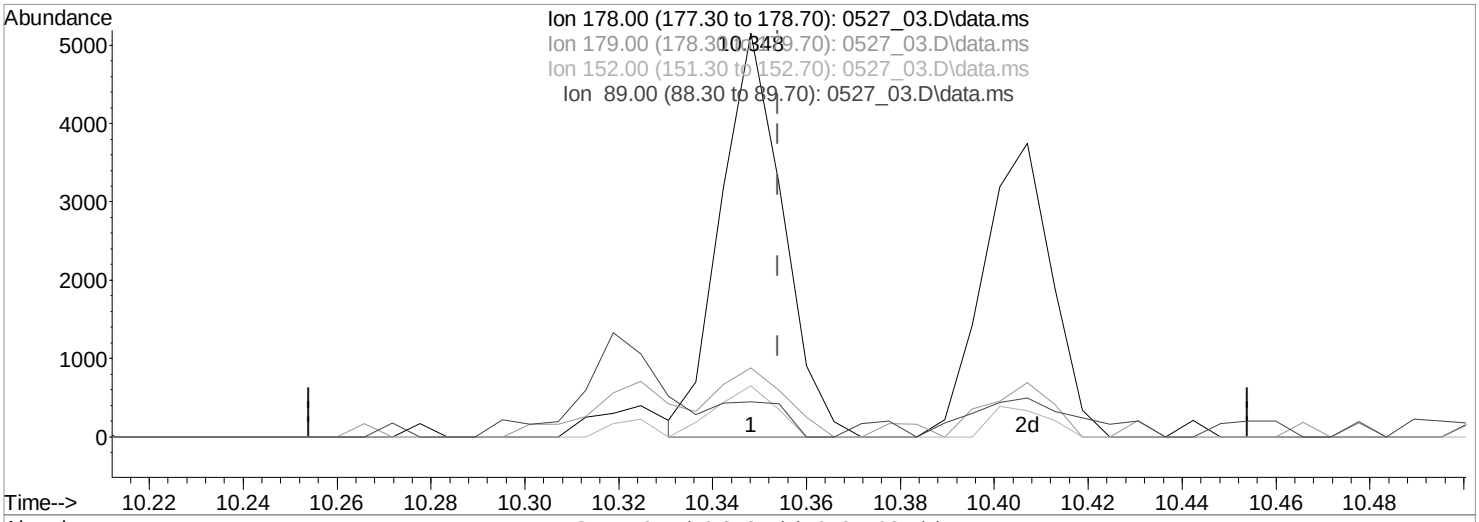
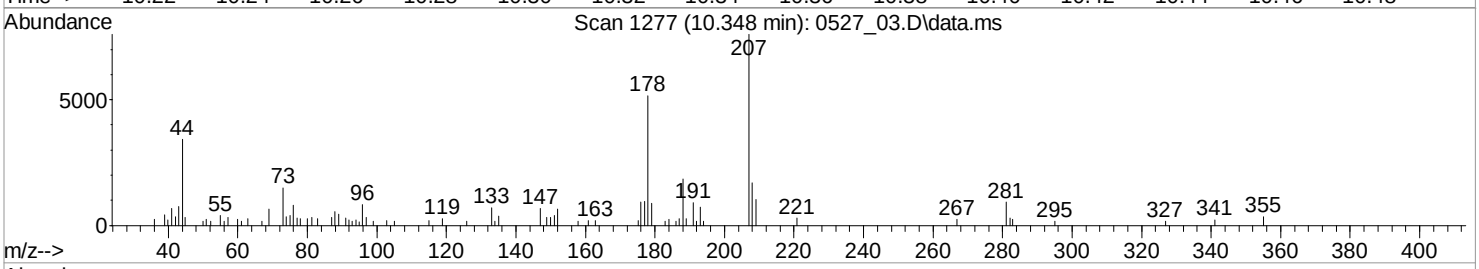
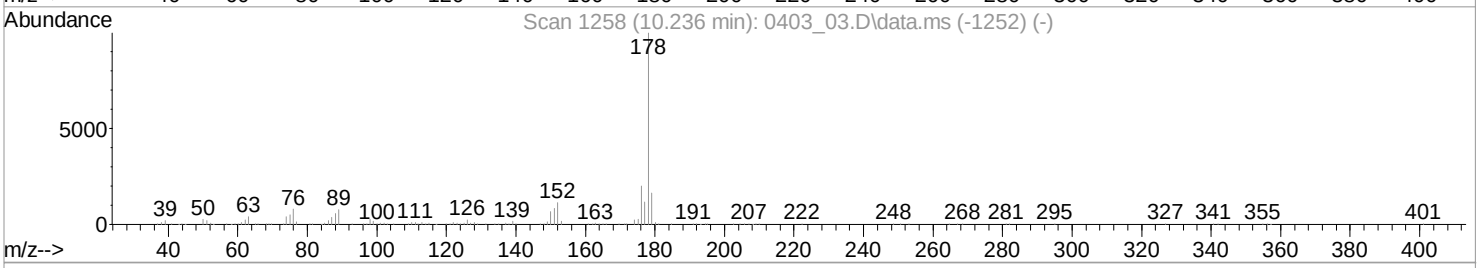






TIC: 0527_03.D\data.ms

(72) Phenanthrene (MT)

10.348min (-0.006) 47.0132656 ppb m

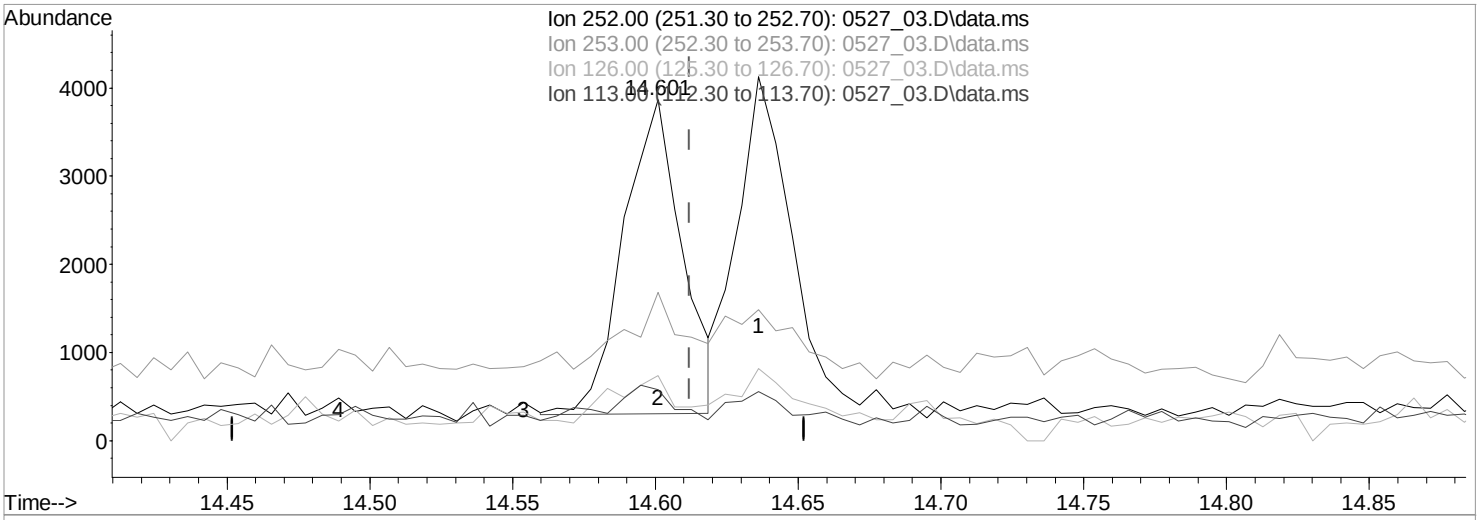
response 4711

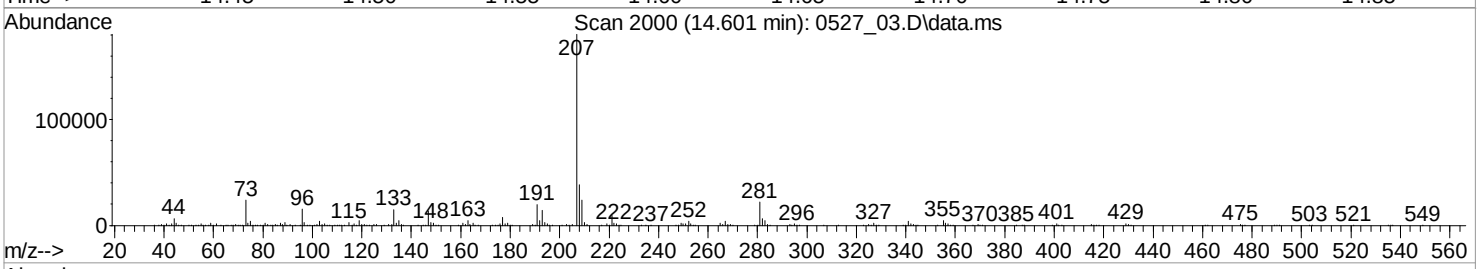
Ion	Exp%	Act%
178.00	100	100
179.00	15.20	16.98
152.00	10.10	12.64
89.00	7.50	8.64

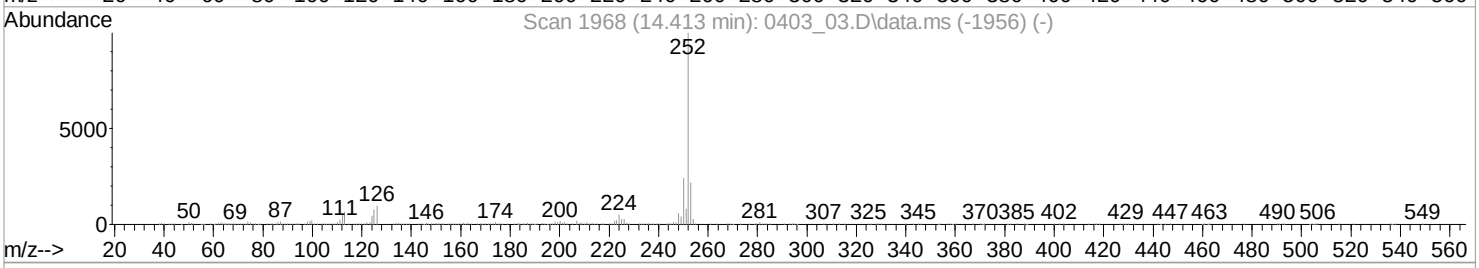
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On : 27 May 2015 6:53 pm
Operator : 377
Sample : STD SVMS 40 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_03.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.601min (-0.011) 43.3309207 ppb m

response 5081

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	43.46#
126.00	13.60	19.09
113.00	6.70	14.95

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\052715\
Data File : 0527 03.D
Acq On    : 27 May 2015   6:53 pm
Operator  : 377
Sample    : STD SVMS 40 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: May 28 16:22:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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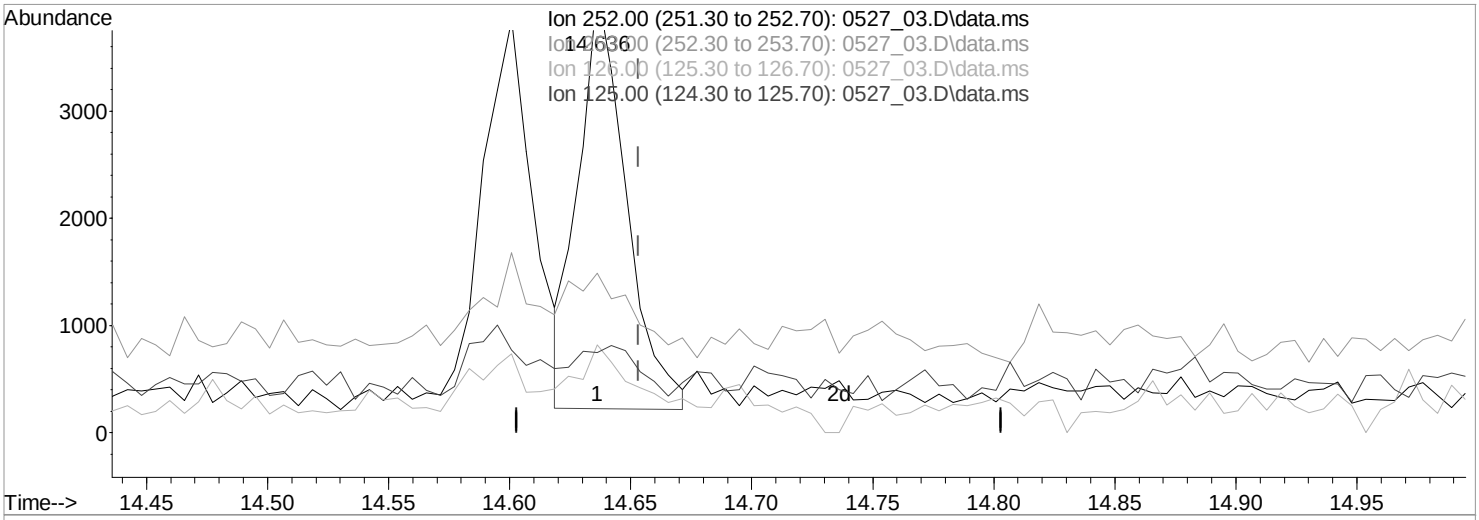
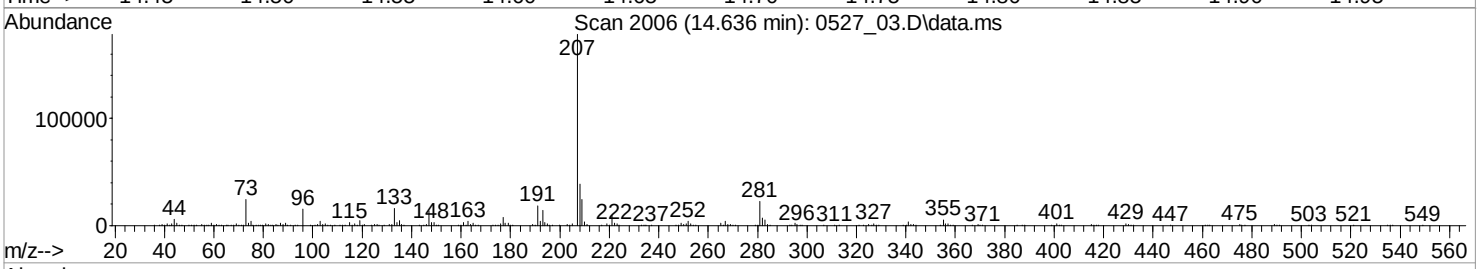
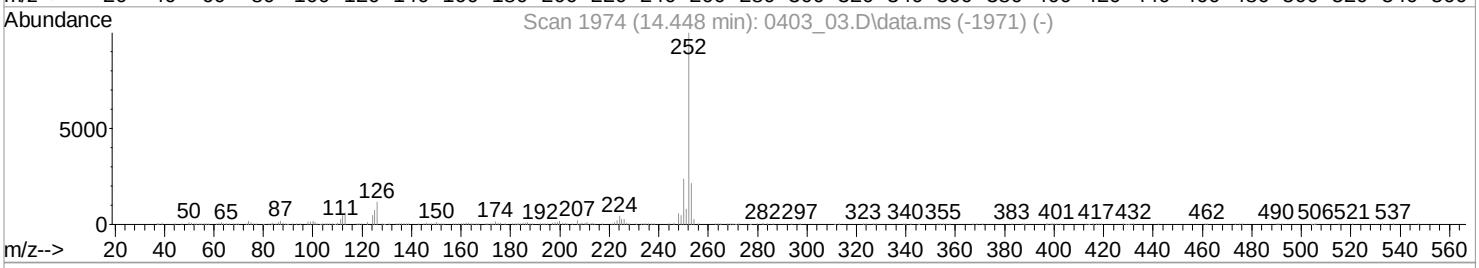






TIC: 0527_03.D\data.ms

(90) Benzo(k)fluoranthene (MT)

14.636min (-0.017) 45.6462156 ppb m

response 5301

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	36.01
126.00	14.60	19.87
125.00	9.70	18.15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:29:41 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	136424	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	513743	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	361464	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	689820	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	749423	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	754418	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.360	112	3633	205.4478617 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 1027.24%#		
7) Phenol-d5	5.096	99	5034	210.2330450 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 1051.17%#		
23) Nitrobenzene-d5	6.037	82	4581	189.8687206 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 1898.69%#		
44) 2-Fluorobiphenyl	7.931	172	12422	219.8136973 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 2198.14%#		
67) 2,4,6-Tribromophenol	9.542	330	1664	168.2954796 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 841.48%#		
81) p-Terphenyl-d14	12.048	244	17225	215.9326576 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 2159.33%#		
Target Compounds					Qvalue
2) Pyridine	3.431	79	5328	221.3075429 ppb #	75
3) N-Nitrosodimethylamine	3.396	42	2620m	211.5646967 ppb	
5) Aniline	5.184	66	2023	169.4765168 ppb #	79
6) bis(2-Chloroethyl)ether	5.225	63	3323	210.9456902 ppb	93
8) Phenol	5.113	94	5056	203.7672589 ppb	98
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.296	128	4705	219.1956870 ppb	97
11) n-Decane	5.313	41	3447	239.5475174 ppb #	69
12) 1,3-Dichlorobenzene	5.448	146	5285	212.3907930 ppb	96
13) 1,4-Dichlorobenzene	5.519	146	5514	217.6255056 ppb	90
14) Benzyl Alcohol	5.607	79	4018	218.7450251 ppb	91
15) 1,2-Dichlorobenzene	5.666	146	5138	209.4829310 ppb	95
16) bis(2-Chloroisopropyl)...	5.737	121	1707	241.9586812 ppb	99
17) 2-Methylphenol	5.690	108	4128	217.1420835 ppb	93
18) Hexachloroethane	6.007	117	2289	208.9770838 ppb	96
19) N-Nitrosodi-n-propylamine	5.860	70	3023	220.3964488 ppb	91
20) 3&4-Methyl phenol	5.837	107	4634	208.9045955 ppb	97
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	6.054	77	4860	199.0283595 ppb	97
25) Isophorone	6.290	82	7974	183.6827739 ppb	94
26) 2-Nitrophenol	6.378	139	1983	163.0700652 ppb	85
27) 2,4-Dimethylphenol	6.390	107	4833	209.0929504 ppb	97
28) bis(2-Chlorethoxy)methane	6.495	93	5375	198.9755493 ppb	96
29) 2,4-Dichlorophenol	6.619	162	4253	206.0213920 ppb	82
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.719	180	5153	218.4816790 ppb	97
32) Naphthalene	6.813	128	15072	219.9850840 ppb	98
33) 4-Chloroaniline	6.843	65	1745	193.4134138 ppb	83
34) Hexachloro-1,3-butadiene	6.931	225	2943	202.2085384 ppb	96
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.331	107	4149	201.0406282 ppb	87
37) 2-Methylnaphthalene	7.548	142	10601	211.4931385 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:29:41 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

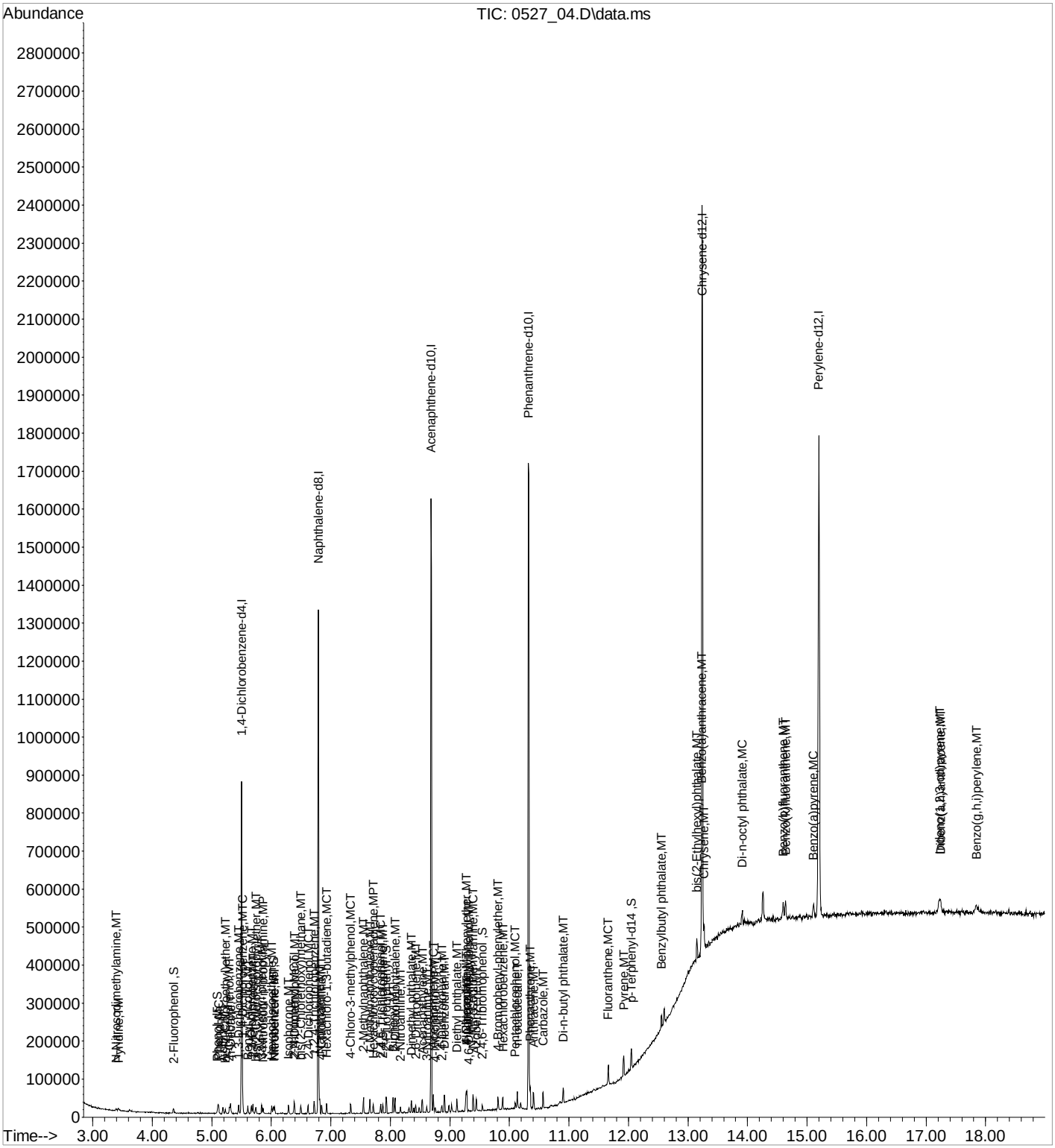
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	9422	211.6392540 ppb		98
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	3340	182.0634179 ppb		96
42)	2,4,6-Trichlorophenol	7.837	196	3211	193.5857698 ppb		94
43)	2,4,5-Trichlorophenol	7.872	196	3081	175.3649412 ppb		86
45)	Biphenyl	8.048	154	13127	210.7287738 ppb		98
46)	2-Chloronaphthalene	8.078	162	10870	217.8463428 ppb		99
47)	2-Nitroaniline	8.172	138	2422	159.7214317 ppb		99
48)	Acenaphthylene	8.537	152	14964	186.5154284 ppb		98
49)	Dimethyl phthalate	8.354	163	11375	198.0067876 ppb		96
50)	2,6-Dinitrotoluene	8.425	165	1982	150.0011334 ppb		98
51)	3-Nitroaniline	8.613	138	1838	132.9547325 ppb		99
52)	Acenaphthene	8.719	153	11155	214.8577167 ppb		89
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	8.907	168	15992	215.8109641 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	2373	134.9144593 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	8.754	139	1512	129.8207992 ppb		88
58)	Fluorene	9.284	166	12608	203.7055161 ppb		98
59)	4-Chlorophenyl-phenyle...	9.272	204	6505	213.9414264 ppb		94
60)	Diethyl phthalate	9.119	149	11164	190.1653522 ppb		95
61)	4-Nitroaniline	9.272	138	2439	184.5821811 ppb		92
62)	Azobenzene	9.442	77	10967	175.6960932 ppb		96
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.313	198	713	70.4419100 ppb		89
66)	N-Nitrosodiphenylamine	9.389	169	10640	207.0787340 ppb		98
68)	4-Bromophenyl-phenylether	9.807	248	3760	208.5842152 ppb		89
69)	Hexachlorobenzene	9.889	284	4611	224.5890861 ppb		89
70)	n-octadecane	10.131	55	2016m	211.8072056 ppb		
71)	Pentachlorophenol	10.095	266	2075	166.7679801 ppb	#	86
72)	Phenanthrene	10.348	178	21411	226.8962815 ppb		98
73)	Anthracene	10.407	178	18195	192.9731101 ppb		96
74)	Carbazole	10.566	167	18063	204.4430630 ppb		98
75)	Di-n-butyl phthalate	10.901	149	19671	184.7631683 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	20974	196.1248664 ppb		98
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	22062	208.6259576 ppb		98
82)	Benzylbutyl phthalate	12.554	149	9182	185.4231922 ppb		97
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	24444	221.9820392 ppb		96
85)	Chrysene	13.266	228	23082	213.8882150 ppb		94
86)	bis(2-Ethylhexyl)phtha...	13.148	149	16938	225.9609651 ppb		97
87)	Di-n-octyl phthalate	13.907	149	22785m	178.4251761 ppb		
89)	Benzo(b)fluoranthene	14.595	252	23411	206.9114525 ppb		96
90)	Benzo(k)fluoranthene	14.636	252	22731	202.8529639 ppb		99
91)	Benzo(a)pyrene	15.107	252	20794	189.4008528 ppb		97
92)	Indeno(1,2,3-cd)pyrene	17.224	276	24982	191.8609881 ppb		96
93)	Dibenz(a,h)anthracene	17.242	278	21037	188.1118530 ppb		96
94)	Benzo(g,h,i)perylene	17.842	276	21536	197.8287893 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:29:41 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On    : 27 May 2015   7:16 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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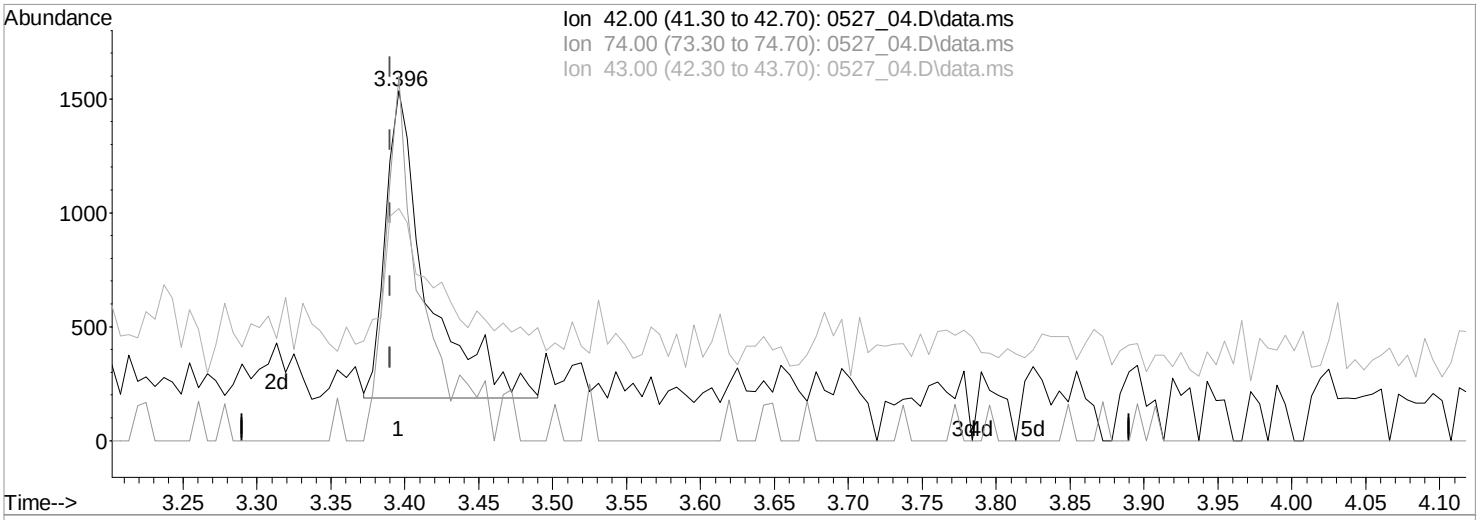
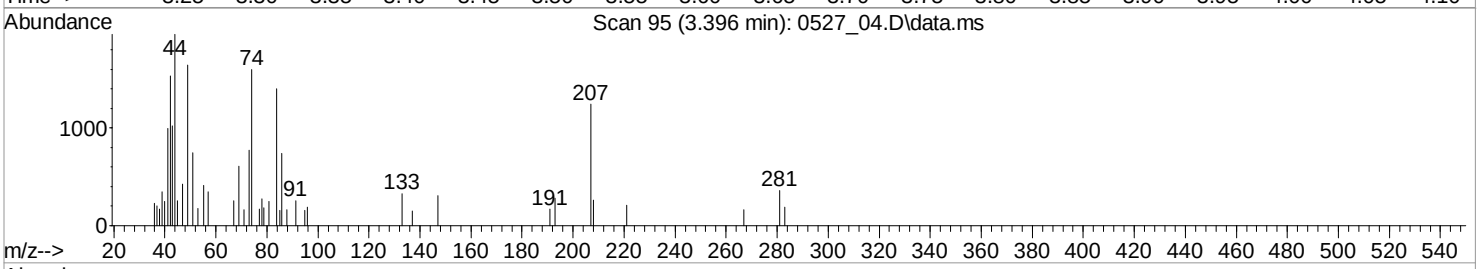
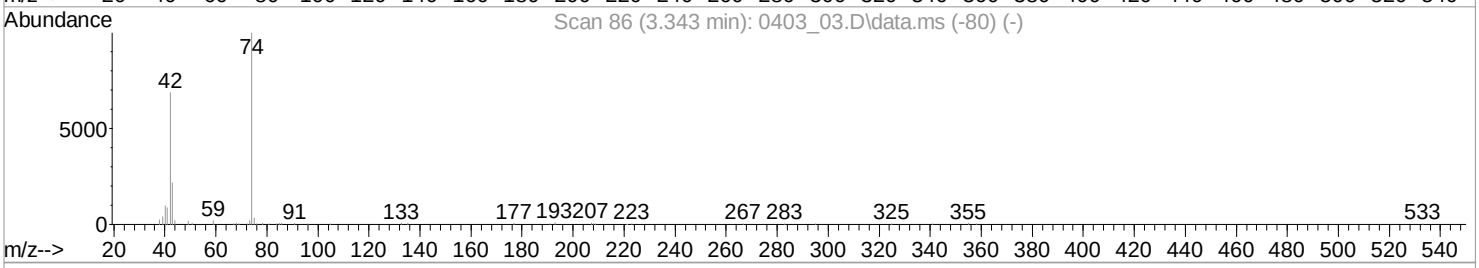






TIC: 0527_04.D\data.ms

(3) N-Nitrosodimethylamine (MT)

3.396min (+0.006) 211.5646967 ppb m

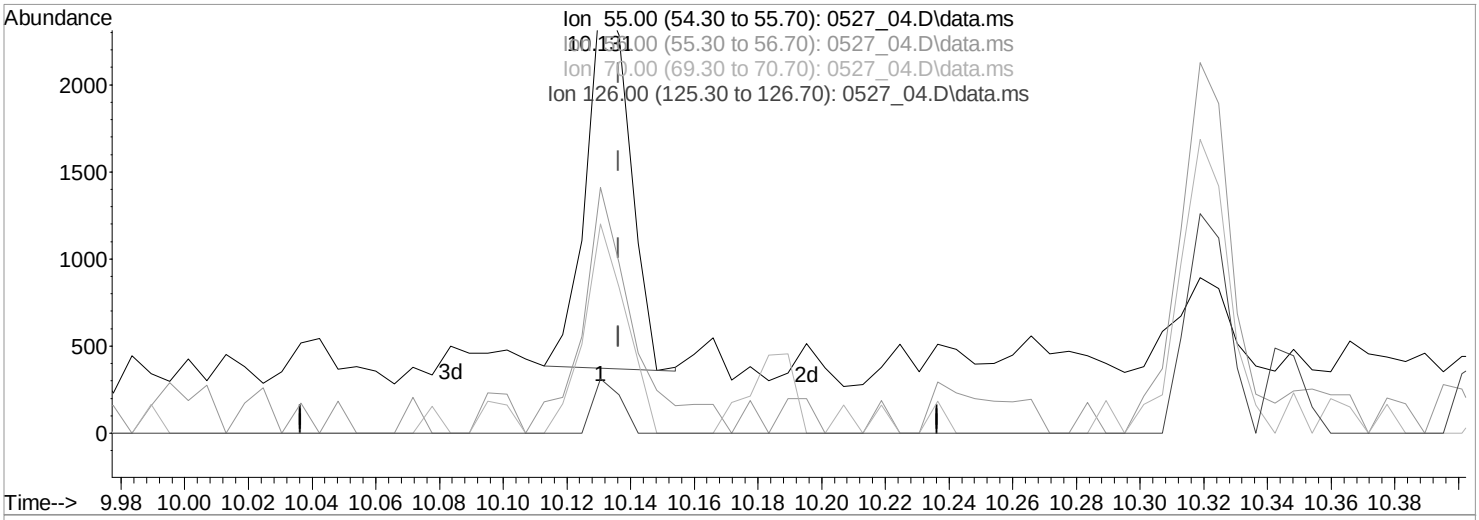
response 2620

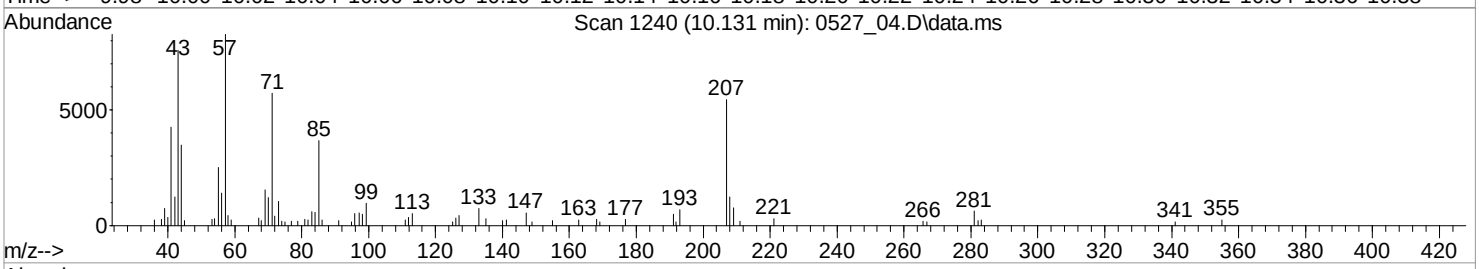
Ion	Exp%	Act%
42.00	100	100
74.00	97.00	104.35
43.00	44.20	71.53#
0.00	0.00	0.00

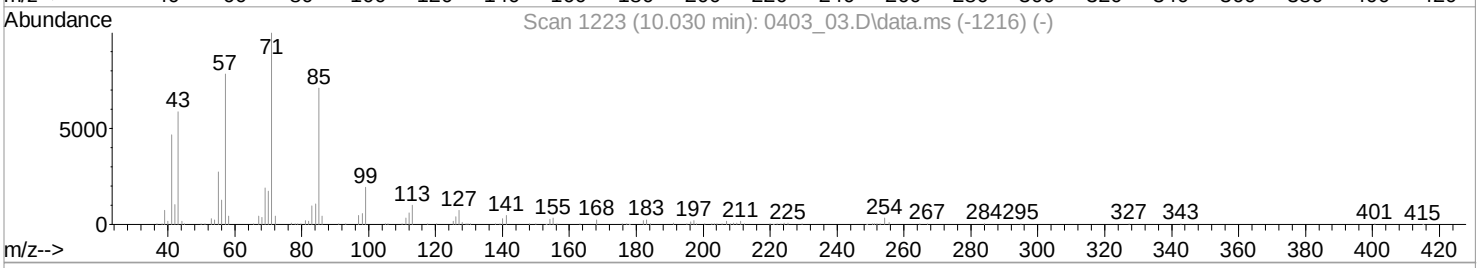
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On : 27 May 2015 7:16 pm
Operator : 377
Sample : STD SVMS 200 PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_04.D\data.ms

(70) n-octadecane (T)

10.131min (-0.006) 211.8072056 ppb m

response 2016

Ion	Exp%	Act%
55.00	100	100
56.00	60.00	79.27#
70.00	45.60	54.76#
126.00	10.60	9.38

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 04.D
Acq On    : 27 May 2015   7:16 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 15D30944
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: May 28 16:22:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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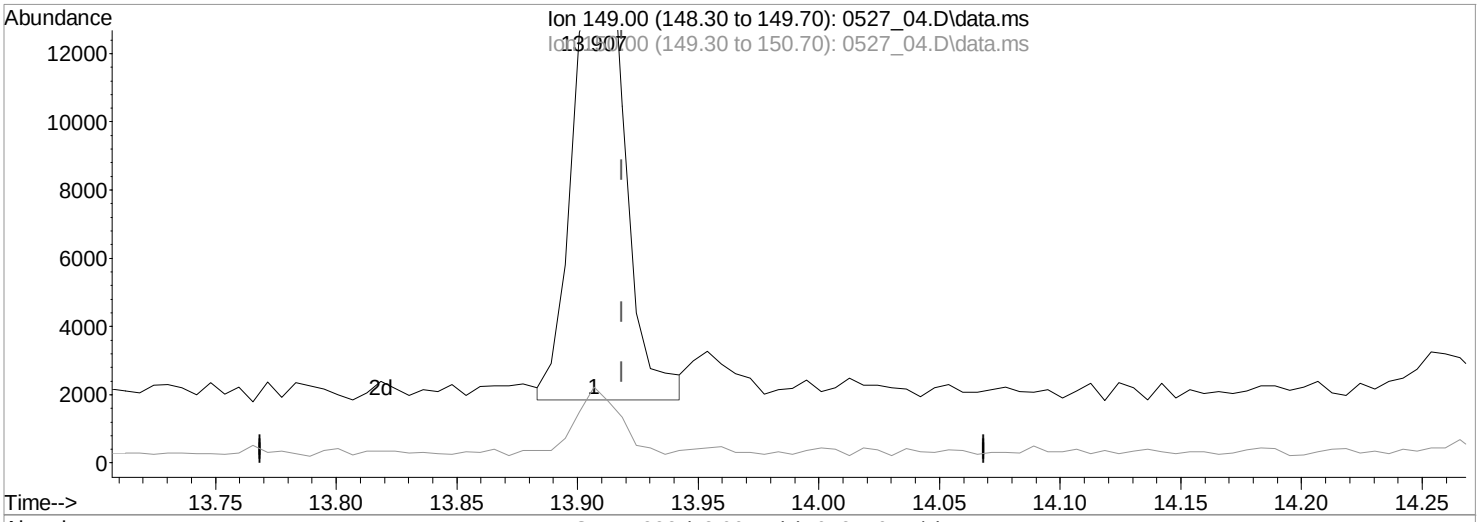
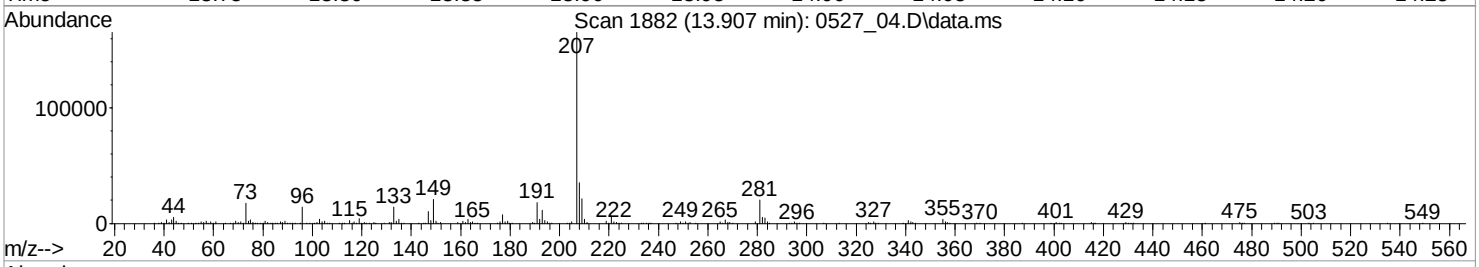
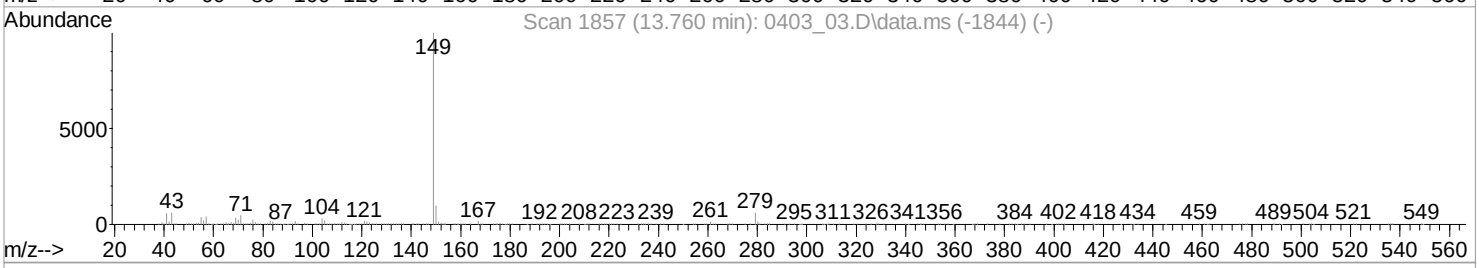






TIC: 0527_04.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.907min (-0.012) 178.4251761 ppb m

response 22785

Ion	Exp%	Act%
149.00	100	100
150.00	9.80	10.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 05.D
Acq On : 27 May 2015 7:39 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 16:31:15 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	142433	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	537330	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	375472	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	723707	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	794069	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	791500	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	18784	1017.4298253 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 5087.15%#		
7) Phenol-d5	5.101	99	24924	996.9782166 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 4984.89%#		
23) Nitrobenzene-d5	6.037	82	23420	928.0787988 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 9280.79%#		
44) 2-Fluorobiphenyl	7.931	172	62147	1058.6950670 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 10586.95%#		
67) 2,4,6-Tribromophenol	9.542	330	9674	932.6060330 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 4663.03%#		
81) p-Terphenyl-d14	12.048	244	89804	1062.4868320 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 10624.87%#		
Target Compounds					Qvalue
2) Pyridine	3.425	79	26731	1063.4751919 ppb	95
3) N-Nitrosodimethylamine	3.396	42	14616	1130.4480264 ppb	91
5) Aniline	5.184	66	12444	998.5131909 ppb	99
6) bis(2-Chloroethyl)ether	5.225	63	17029	1035.4034754 ppb	98
8) Phenol	5.113	94	26338	1016.6940661 ppb	94
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.296	128	22824	1018.4607408 ppb	97
11) n-Decane	5.313	41	15191	1011.1530866 ppb #	95
12) 1,3-Dichlorobenzene	5.449	146	27173	1045.9440190 ppb	97
13) 1,4-Dichlorobenzene	5.519	146	27652	1045.3211485 ppb	98
14) Benzyl Alcohol	5.607	79	19158	998.9841056 ppb	100
15) 1,2-Dichlorobenzene	5.666	146	26731	1043.8783851 ppb	98
16) bis(2-Chloroisopropyl)...	5.737	121	8079	1096.8454879 ppb #	91
17) 2-Methylphenol	5.690	108	20218	1018.6445397 ppb	97
18) Hexachloroethane	6.007	117	11520	1007.3618698 ppb	96
19) N-Nitrosodi-n-propylamine	5.860	70	13587	948.7901733 ppb	97
20) 3&4-Methyl phenol	5.837	107	23559	1017.2529872 ppb	98
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	6.054	77	25343	992.2966986 ppb	97
25) Isophorone	6.290	82	42171	928.7758758 ppb	98
26) 2-Nitrophenol	6.378	139	11328	890.6551837 ppb	97
27) 2,4-Dimethylphenol	6.390	107	24546	1015.3321878 ppb	97
28) bis(2-Chlorethoxy)methane	6.495	93	28153	996.4390819 ppb	92
29) 2,4-Dichlorophenol	6.619	162	21254	984.3792251 ppb	93
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.719	180	26210	1062.4946010 ppb	99
32) Naphthalene	6.813	128	76262	1064.2296847 ppb	98
33) 4-Chloroaniline	6.848	65	9414	997.6315653 ppb	99
34) Hexachloro-1,3-butadiene	6.931	225	15831	1039.9738179 ppb	97
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.337	107	21150	979.8409783 ppb	98
37) 2-Methylnaphthalene	7.548	142	53620	1022.7773128 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 05.D
Acq On : 27 May 2015 7:39 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 16:31:15 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

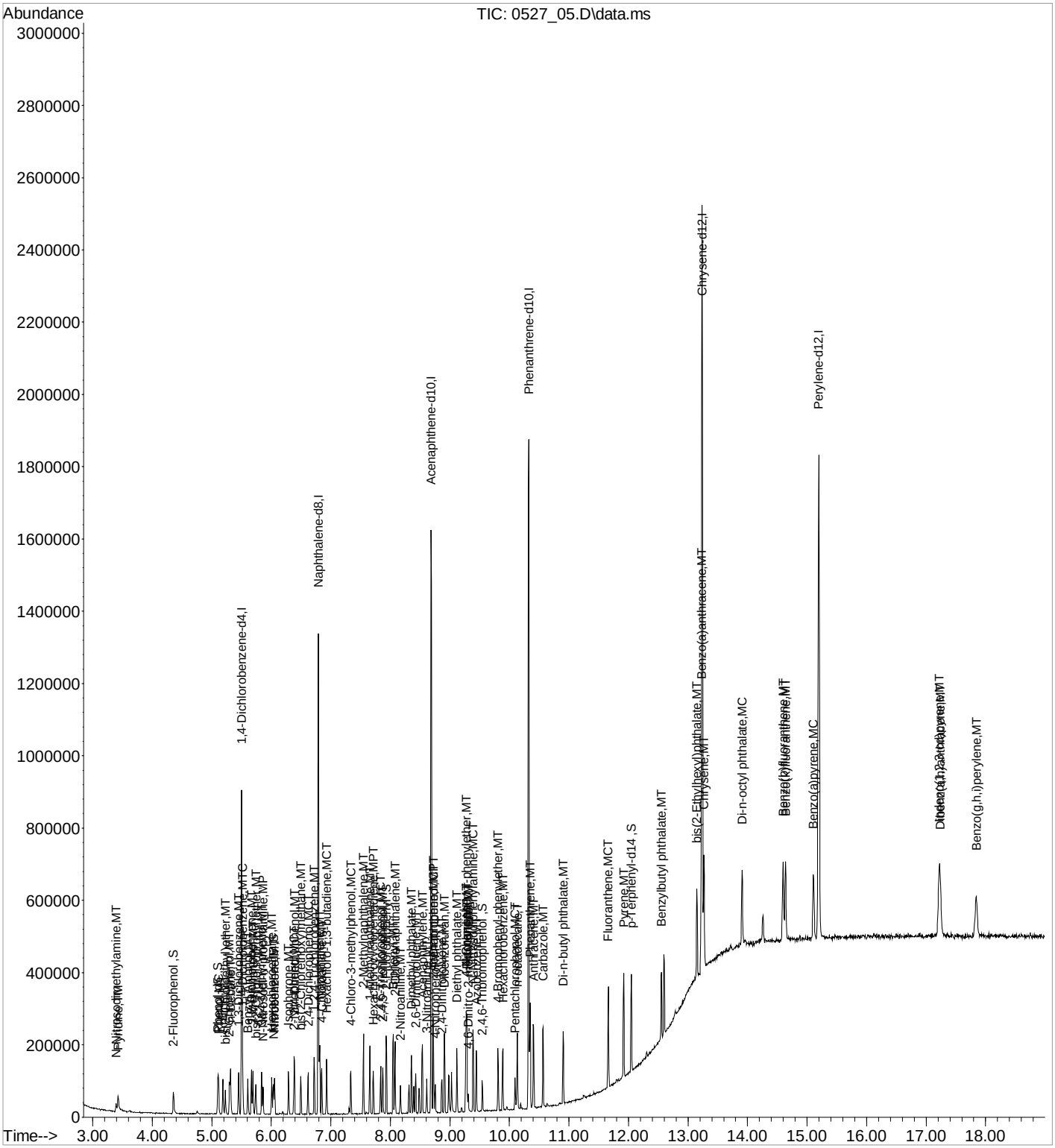
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	48304	1037.3875861 ppb		98
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	17772	932.6099049 ppb		96
42)	2,4,6-Trichlorophenol	7.837	196	16950	983.7626297 ppb		93
43)	2,4,5-Trichlorophenol	7.872	196	18383	1007.2910083 ppb		98
45)	Biphenyl	8.048	154	68100	1052.4293740 ppb		100
46)	2-Chloronaphthalene	8.078	162	55604	1072.7888676 ppb		98
47)	2-Nitroaniline	8.172	138	12870	817.0621580 ppb		98
48)	Acenaphthylene	8.537	152	82552	990.5631236 ppb		99
49)	Dimethyl phthalate	8.354	163	61632	1032.8147415 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	11973	872.3311221 ppb		98
51)	3-Nitroaniline	8.613	138	12490	869.7776150 ppb		98
52)	Acenaphthene	8.719	153	56838	1053.9200421 ppb		96
53)	2,4-Dinitrophenol	8.725	184	4647	595.3019116 ppb	#	1
54)	Dibenzofuran	8.907	168	82100	1066.5994984 ppb		100
55)	2,4-Dinitrotoluene	8.866	165	15197	831.7754857 ppb		97
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	8.754	139	10024	828.5544222 ppb		96
58)	Fluorene	9.284	166	67135	1044.2225717 ppb		98
59)	4-Chlorophenyl-phenyle...	9.272	204	33560	1062.5687334 ppb		91
60)	Diethyl phthalate	9.119	149	60956	999.5753069 ppb		99
61)	4-Nitroaniline	9.278	138	12823	934.2327975 ppb		99
62)	Azobenzene	9.442	77	58815	907.0889087 ppb		98
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	6747	635.3679620 ppb		88
66)	N-Nitrosodiphenylamine	9.389	169	54755	1015.7589669 ppb		94
68)	4-Bromophenyl-phenylether	9.807	248	19461	1029.0388133 ppb		93
69)	Hexachlorobenzene	9.889	284	23323	1082.8067301 ppb		94
70)	n-octadecane	10.131	55	9688	970.1912227 ppb		97
71)	Pentachlorophenol	10.095	266	11587	887.6435119 ppb		95
72)	Phenanthrene	10.348	178	106863	1079.4208372 ppb		99
73)	Anthracene	10.407	178	101359	1024.6606587 ppb		99
74)	Carbazole	10.566	167	93947	1013.5342326 ppb		100
75)	Di-n-butyl phthalate	10.901	149	105786	947.0876355 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	113813	1014.4164343 ppb		99
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	120111	1071.9512162 ppb		99
82)	Benzylbutyl phthalate	12.554	149	48289	920.3303685 ppb		97
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	124368	1065.9160162 ppb		97
85)	Chrysene	13.266	228	120702	1055.5933889 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.148	149	73167	921.2029431 ppb		98
87)	Di-n-octyl phthalate	13.907	149	123074	909.5827025 ppb		99
89)	Benzo(b)fluoranthene	14.595	252	124609	1049.7239306 ppb		99
90)	Benzo(k)fluoranthene	14.636	252	115949	986.2589238 ppb		97
91)	Benzo(a)pyrene	15.107	252	113095	981.8574013 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.218	276	137351	1005.4313466 ppb		97
93)	Dibenz(a,h)anthracene	17.236	278	115328	982.9427818 ppb		95
94)	Benzo(g,h,i)perylene	17.842	276	116246	1017.8026824 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 05.D
Acq On : 27 May 2015 7:39 pm
Operator : 377
Sample : STD SVMS 1K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 16:31:15 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:32:47 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	141913	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	545163	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	385825	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	735406	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	817028	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	805688	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	39969	2172.8418044 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 10864.21%#		
7) Phenol-d5	5.101	99	55618	2232.9126558 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 11164.56%#		
23) Nitrobenzene-d5	6.037	82	51435	2008.9606073 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 20089.61%#		
44) 2-Fluorobiphenyl	7.931	172	136406	2261.3687454 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 22613.69%#		
67) 2,4,6-Tribromophenol	9.542	330	22084	2095.1034907 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 10475.52%#		
81) p-Terphenyl-d14	12.048	244	199208	2290.6353141 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 22906.35%#		
Target Compounds					Qvalue
2) Pyridine	3.425	79	56001	2236.1265618 ppb	99
3) N-Nitrosodimethylamine	3.390	42	32113	2492.8226706 ppb	89
5) Aniline	5.184	66	26825	2160.3393459 ppb	97
6) bis(2-Chloroethyl)ether	5.225	63	36899	2251.7673108 ppb	96
8) Phenol	5.113	94	57437	2225.2954724 ppb	95
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.296	128	50013	2239.8755080 ppb	97
11) n-Decane	5.313	41	31866	2128.8572490 ppb #	90
12) 1,3-Dichlorobenzene	5.448	146	59025	2280.3173337 ppb	99
13) 1,4-Dichlorobenzene	5.519	146	60625	2300.1882524 ppb	99
14) Benzyl Alcohol	5.607	79	41177	2155.0212284 ppb	100
15) 1,2-Dichlorobenzene	5.666	146	57508	2253.9869845 ppb	96
16) bis(2-Chloroisopropyl)...	5.737	121	16639	2267.2713875 ppb	97
17) 2-Methylphenol	5.690	108	42418	2144.9792625 ppb	99
18) Hexachloroethane	6.007	117	24921	2187.1921320 ppb	96
19) N-Nitrosodi-n-propylamine	5.860	70	30521	2139.1133703 ppb	97
20) 3&4-Methyl phenol	5.837	107	49758	2156.3709781 ppb	97
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	6.054	77	53977	2083.0849530 ppb	96
25) Isophorone	6.290	82	92547	2008.9729443 ppb	99
26) 2-Nitrophenol	6.378	139	25897	2006.8759670 ppb	96
27) 2,4-Dimethylphenol	6.390	107	52312	2132.7672566 ppb	97
28) bis(2-Chlorethoxy)methane	6.495	93	62317	2173.9388623 ppb	99
29) 2,4-Dichlorophenol	6.619	162	47019	2146.3960846 ppb	94
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.719	180	57045	2279.2502507 ppb	98
32) Naphthalene	6.813	128	162445	2234.3347615 ppb	98
33) 4-Chloroaniline	6.848	65	20447	2135.7002611 ppb	97
34) Hexachloro-1,3-butadiene	6.931	225	34321	2222.2284635 ppb	96
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.337	107	46129	2106.3667099 ppb	97
37) 2-Methylnaphthalene	7.548	142	118053	2219.4533448 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:32:47 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

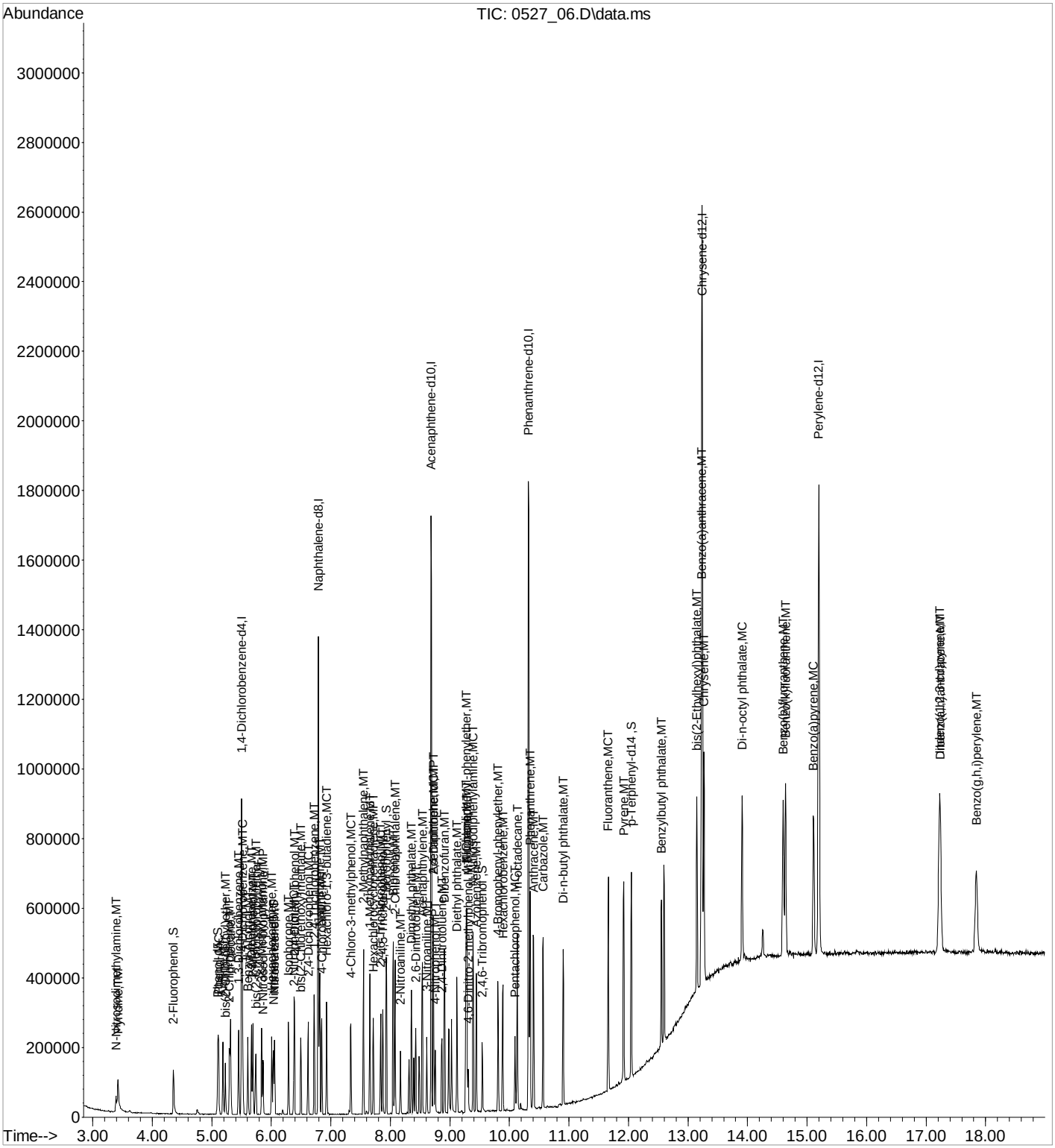
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	105439	2231.8959556 ppb		99
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	40473	2066.8849702 ppb		97
42)	2,4,6-Trichlorophenol	7.837	196	36922	2085.4175664 ppb		94
43)	2,4,5-Trichlorophenol	7.872	196	39841	2124.4963617 ppb		98
45)	Biphenyl	8.048	154	147362	2216.2489732 ppb		100
46)	2-Chloronaphthalene	8.078	162	118284	2220.8612026 ppb		99
47)	2-Nitroaniline	8.172	138	30510	1884.9765363 ppb		97
48)	Acenaphthylene	8.537	152	183893	2147.3703177 ppb		99
49)	Dimethyl phthalate	8.354	163	132097	2154.2510472 ppb		98
50)	2,6-Dinitrotoluene	8.425	165	28356	2010.5299331 ppb		99
51)	3-Nitroaniline	8.613	138	29239	1981.5064681 ppb		97
52)	Acenaphthene	8.725	153	122446	2209.5339007 ppb		99
53)	2,4-Dinitrophenol	8.725	184	12474	1555.0971859 ppb	#	22
54)	Dibenzofuran	8.907	168	176278	2228.6584871 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	36083	1921.9322866 ppb		98
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	8.754	139	24125	1940.5931531 ppb		95
58)	Fluorene	9.284	166	147332	2230.1206485 ppb		99
59)	4-Chlorophenyl-phenyle...	9.272	204	72959	2248.0250390 ppb		93
60)	Diethyl phthalate	9.119	149	136373	2176.2793647 ppb		99
61)	4-Nitroaniline	9.278	138	30903	2191.0551065 ppb		99
62)	Azobenzene	9.442	77	135880	2039.4097193 ppb		98
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	18692	1732.2316870 ppb		94
66)	N-Nitrosodiphenylamine	9.389	169	123266	2250.3278206 ppb		98
68)	4-Bromophenyl-phenylether	9.807	248	42275	2199.8133023 ppb		96
69)	Hexachlorobenzene	9.889	284	49097	2243.1436920 ppb		99
70)	n-octadecane	10.131	55	21399	2108.8820696 ppb		98
71)	Pentachlorophenol	10.095	266	26601	2005.4006146 ppb		92
72)	Phenanthrene	10.348	178	228056	2266.9426982 ppb		100
73)	Anthracene	10.407	178	218346	2172.1938989 ppb		99
74)	Carbazole	10.566	167	205714	2184.0116909 ppb		100
75)	Di-n-butyl phthalate	10.901	149	232178	2045.5902325 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D.		
77)	Fluoranthene	11.660	202	247381	2169.8332036 ppb		99
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	262946	2280.7627358 ppb		99
82)	Benzylbutyl phthalate	12.554	149	107751	1995.8971215 ppb		96
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	268281	2234.7325534 ppb		99
85)	Chrysene	13.266	228	259595	2206.4791101 ppb		100
86)	bis(2-Ethylhexyl)phtha...	13.148	149	165932	2030.4463450 ppb		99
87)	Di-n-octyl phthalate	13.907	149	277651	1994.3272367 ppb		100
89)	Benzo(b)fluoranthene	14.595	252	273303	2261.7995326 ppb		99
90)	Benzo(k)fluoranthene	14.636	252	256077	2139.8263719 ppb		98
91)	Benzo(a)pyrene	15.107	252	257256	2194.0905649 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.224	276	297879	2142.1235051 ppb		99
93)	Dibenz(a,h)anthracene	17.236	278	254786	2133.3055428 ppb		99
94)	Benzo(g,h,i)perylene	17.842	276	252531	2172.1224071 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 06.D
Acq On : 27 May 2015 8:03 pm
Operator : 377
Sample : STD SVMS 2K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 16:32:47 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 07.D
Acq On : 27 May 2015 8:26 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 16:33:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	150756	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	569037	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	393909	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	748948	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	831493	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	823971	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	99424	5087.9593450 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 25439.80%#		
7) Phenol-d5	5.101	99	133150	5032.0519198 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 25160.26%#		
23) Nitrobenzene-d5	6.037	82	128600	4812.1539420 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 48121.54%#		
44) 2-Fluorobiphenyl	7.931	172	322057	5229.5595891 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 52295.60%#		
67) 2,4,6-Tribromophenol	9.542	330	54755	5100.6676750 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 25503.34%#		
81) p-Terphenyl-d14	12.048	244	476610	5385.0615270 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 53850.62%#		
Target Compounds					Qvalue
2) Pyridine	3.419	79	135797	5104.3253564 ppb	97
3) N-Nitrosodimethylamine	3.390	42	70879	5179.3548094 ppb	96
5) Aniline	5.184	66	64857	4916.8467950 ppb	98
6) bis(2-Chloroethyl)ether	5.225	63	87438	5022.9251223 ppb	99
8) Phenol	5.113	94	137825	5026.5674260 ppb	94
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.295	128	122532	5165.8057597 ppb	97
11) n-Decane	5.313	41	78756	4952.7934242 ppb	99
12) 1,3-Dichlorobenzene	5.448	146	140621	5113.9567408 ppb	100
13) 1,4-Dichlorobenzene	5.519	146	144890	5174.8482290 ppb	97
14) Benzyl Alcohol	5.607	79	99546	4904.2007467 ppb	99
15) 1,2-Dichlorobenzene	5.666	146	140546	5185.4828822 ppb	97
16) bis(2-Chloroisopropyl)...	5.737	121	40472	5191.3286900 ppb	100
17) 2-Methylphenol	5.690	108	105451	5019.6240079 ppb	99
18) Hexachloroethane	6.007	117	60683	5013.4430725 ppb	94
19) N-Nitrosodi-n-propylamine	5.866	70	75733	4996.5217166 ppb	93
20) 3&4-Methyl phenol	5.837	107	122081	4980.3081576 ppb	100
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	6.054	77	133651	4941.4717625 ppb	97
25) Isophorone	6.290	82	234232	4871.2883299 ppb	100
26) 2-Nitrophenol	6.378	139	66550	4940.8879143 ppb	95
27) 2,4-Dimethylphenol	6.390	107	127032	4961.8215690 ppb	96
28) bis(2-Chlorethoxy)methane	6.495	93	151609	5067.0085642 ppb	97
29) 2,4-Dichlorophenol	6.619	162	115444	5048.8644603 ppb	93
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.719	180	134926	5164.8289019 ppb	99
32) Naphthalene	6.813	128	387670	5108.4595016 ppb	99
33) 4-Chloroaniline	6.848	65	49128	4916.1559922 ppb	97
34) Hexachloro-1,3-butadiene	6.931	225	82994	5148.2702436 ppb	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.337	107	112734	4931.7462829 ppb	96
37) 2-Methylnaphthalene	7.548	142	279912	5041.6927587 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 07.D
Acq On : 27 May 2015 8:26 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 16:33:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

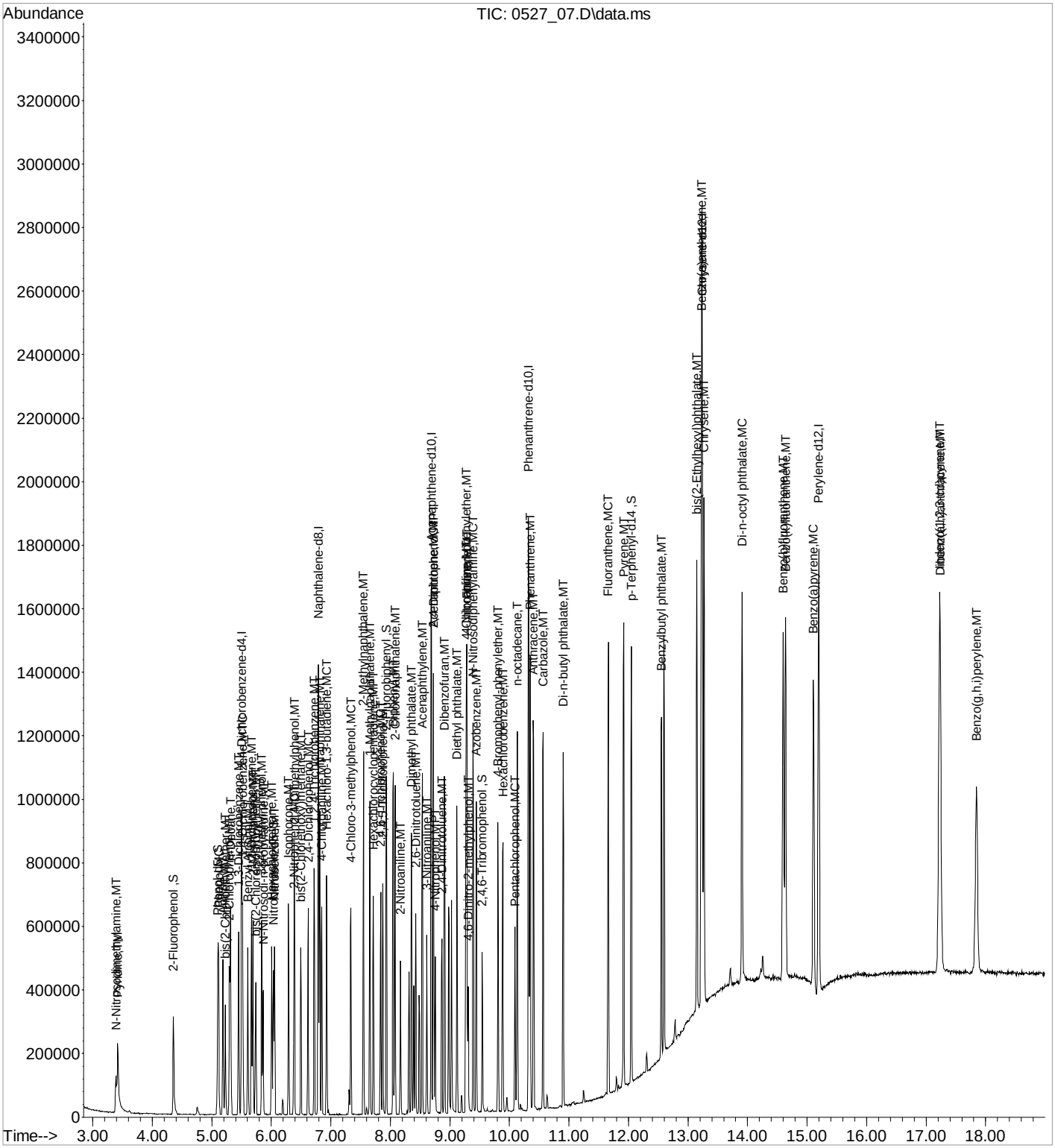
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.654	142	253226	5135.3119264 ppb		99
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41)	Hexachlorocyclopentadiene	7.713	237	100703	5037.1835920 ppb		97
42)	2,4,6-Trichlorophenol	7.837	196	90065	4982.6263923 ppb		95
43)	2,4,5-Trichlorophenol	7.872	196	100221	5234.5451982 ppb		98
45)	Biphenyl	8.048	154	352437	5191.6929261 ppb		100
46)	2-Chloronaphthalene	8.078	162	282124	5188.3576837 ppb		99
47)	2-Nitroaniline	8.172	138	79416	4805.8057315 ppb		97
48)	Acenaphthylene	8.536	152	445783	5098.7029606 ppb		99
49)	Dimethyl phthalate	8.354	163	324445	5182.4951575 ppb		99
50)	2,6-Dinitrotoluene	8.425	165	72187	5013.2461659 ppb		99
51)	3-Nitroaniline	8.613	138	75005	4978.7194625 ppb		100
52)	Acenaphthene	8.725	153	294626	5207.4079011 ppb		99
53)	2,4-Dinitrophenol	8.725	184	37397	4566.4953666 ppb	#	83
54)	Dibenzofuran	8.907	168	416080	5152.4847030 ppb		99
55)	2,4-Dinitrotoluene	8.866	165	94630	4936.9501899 ppb		98
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	8.754	139	63387	4994.1528688 ppb		98
58)	Fluorene	9.283	166	349412	5180.4030661 ppb		100
59)	4-Chlorophenyl-phenyle...	9.272	204	171858	5186.6445495 ppb		92
60)	Diethyl phthalate	9.119	149	330530	5166.4424320 ppb		100
61)	4-Nitroaniline	9.278	138	78703	5465.6070758 ppb		99
62)	Azobenzene	9.442	77	340351	5003.4600748 ppb		99
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.307	198	52459	4773.5966210 ppb		96
66)	N-Nitrosodiphenylamine	9.389	169	297654	5335.6792288 ppb		99
68)	4-Bromophenyl-phenylether	9.807	248	101401	5181.0758351 ppb		96
69)	Hexachlorobenzene	9.889	284	117716	5280.9631671 ppb		99
70)	n-octadecane	10.130	55	50600	4896.4895943 ppb		99
71)	Pentachlorophenol	10.095	266	66841	4947.9080776 ppb		95
72)	Phenanthrene	10.348	178	538860	5259.5730342 ppb		100
73)	Anthracene	10.401	178	532777	5204.4437719 ppb		99
74)	Carbazole	10.566	167	504826	5262.6965323 ppb		99
75)	Di-n-butyl phthalate	10.901	149	576537	4987.6993021 ppb		99
76)	2-nitrodiphenylamine	0.000		0	N.D. d		
77)	Fluoranthene	11.660	202	604191	5203.6702147 ppb		99
79)	Benzidine	0.000		0	N.D.		
80)	Pyrene	11.919	202	630103	5370.3603813 ppb		100
82)	Benzylbutyl phthalate	12.554	149	267403	4867.0012818 ppb		97
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	651408	5331.7167554 ppb		99
85)	Chrysene	13.266	228	619818	5176.6168777 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.148	149	407895	4904.4249648 ppb		100
87)	Di-n-octyl phthalate	13.907	149	694487	4901.6200300 ppb		100
89)	Benzo(b)fluoranthene	14.601	252	657715	5322.3376910 ppb		98
90)	Benzo(k)fluoranthene	14.636	252	616495	5037.2382145 ppb		99
91)	Benzo(a)pyrene	15.107	252	610528	5091.5450648 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.224	276	735882	5174.4925732 ppb		99
93)	Dibenz(a,h)anthracene	17.236	278	627027	5133.5608196 ppb		99
94)	Benzo(g,h,i)perylene	17.848	276	617667	5194.9212044 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 07.D
Acq On : 27 May 2015 8:26 pm
Operator : 377
Sample : STD SVMS 5K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 16:33:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 08.D
Acq On : 27 May 2015 8:49 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 16:34:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	151697	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	578173	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	406795	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	765639	8000.0000000 ppb	0.00
78) Chrysene-d12	13.242	240	919475	8000.0000000 ppb	0.00
88) Perylene-d12	15.195	264	875189	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	410664	20885.1042559 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 104425.52%#		
7) Phenol-d5	5.101	99	556891	20915.6687723 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 104578.34%#		
23) Nitrobenzene-d5	6.037	82	554331	20415.0481810 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 204150.48%#		
44) 2-Fluorobiphenyl	7.936	172	1322115	20788.4401164 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 207884.40%#		
67) 2,4,6-Tribromophenol	9.548	330	248786	22670.2756621 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 113351.38%#		
81) p-Terphenyl-d14	12.048	244	1989857	20331.4362241 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 203314.36%#		
Target Compounds					Qvalue
2) Pyridine	3.419	79	551413	20597.8925262 ppb	96
3) N-Nitrosodimethylamine	3.390	42	276728	20095.9619389 ppb	97
5) Aniline	5.190	66	270677	20392.8905367 ppb	99
6) bis(2-Chloroethyl)ether	5.231	63	357678	20419.5577078 ppb	96
8) Phenol	5.113	94	568339	20599.1160279 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.301	128	504758	21148.0035426 ppb	98
11) n-Decane	5.313	41	313347	19583.4732387 ppb	98
12) 1,3-Dichlorobenzene	5.448	146	579436	20941.6046198 ppb	99
13) 1,4-Dichlorobenzene	5.519	146	591065	20979.3516053 ppb	98
14) Benzyl Alcohol	5.607	79	426735	20892.9759054 ppb	99
15) 1,2-Dichlorobenzene	5.666	146	570308	20911.1439857 ppb	97
16) bis(2-Chloroisopropyl)...	5.742	121	161814	20627.0712216 ppb #	92
17) 2-Methylphenol	5.695	108	434631	20560.7426860 ppb	99
18) Hexachloroethane	6.007	117	255042	20940.0813248 ppb	94
19) N-Nitrosodi-n-propylamine	5.866	70	318905	20909.3995107 ppb	96
20) 3&4-Methyl phenol	5.842	107	506619	20539.3750210 ppb	99
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	6.054	77	549182	19984.0311994 ppb	98
25) Isophorone	6.295	82	996105	20388.5071948 ppb	98
26) 2-Nitrophenol	6.378	139	295028	21557.7224685 ppb	94
27) 2,4-Dimethylphenol	6.389	107	517927	19910.3666669 ppb	98
28) bis(2-Chlorethoxy)methane	6.495	93	611939	20128.7815618 ppb	97
29) 2,4-Dichlorophenol	6.619	162	480244	20671.2620591 ppb	96
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.719	180	553339	20846.5539353 ppb	98
32) Naphthalene	6.813	128	1551770	20125.0890776 ppb	99
33) 4-Chloroaniline	6.848	65	203490	20041.1362932 ppb	96
34) Hexachloro-1,3-butadiene	6.931	225	347706	21228.0217348 ppb	97
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.336	107	472607	20348.3246627 ppb	97
37) 2-Methylnaphthalene	7.548	142	1153642	20450.7206732 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 08.D
Acq On : 27 May 2015 8:49 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 16:34:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

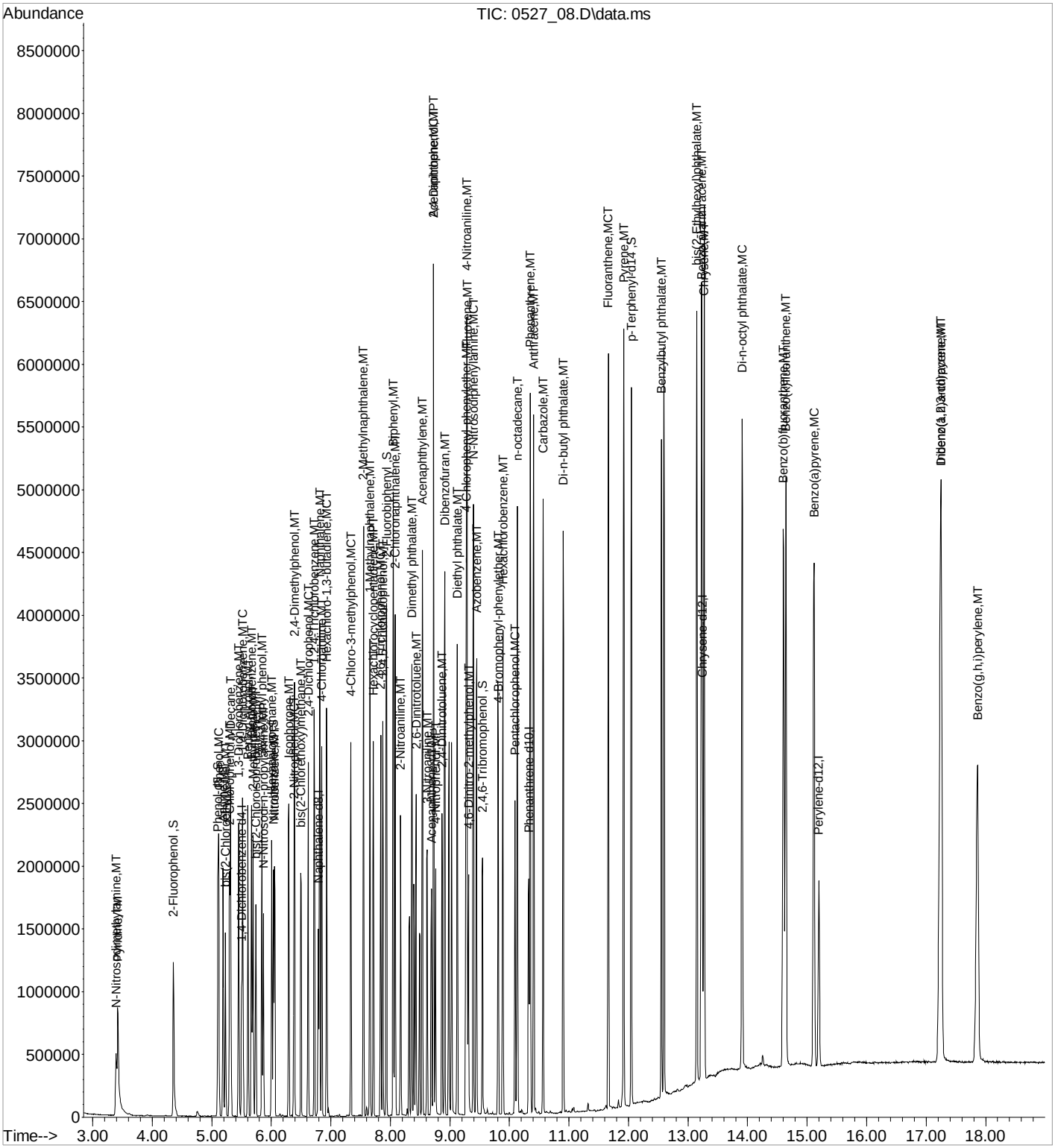
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	1024203	20442.1832191 ppb		99
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41)	Hexachlorocyclopentadiene	7.713	237	454640	22020.8111181 ppb		97
42)	2,4,6-Trichlorophenol	7.836	196	392737	21038.9657419 ppb		95
43)	2,4,5-Trichlorophenol	7.872	196	426344	21562.5775892 ppb		98
45)	Biphenyl	8.048	154	1434267	20458.6892106 ppb		100
46)	2-Chloronaphthalene	8.078	162	1154973	20567.5236323 ppb		99
47)	2-Nitroaniline	8.172	138	375018	21975.0874936 ppb		95
48)	Acenaphthylene	8.536	152	1829233	20259.3512444 ppb		100
49)	Dimethyl phthalate	8.360	163	1327484	20532.7638333 ppb		99
50)	2,6-Dinitrotoluene	8.431	165	318126	21393.3846154 ppb		96
51)	3-Nitroaniline	8.619	138	326417	20980.7257351 ppb		96
52)	Acenaphthene	8.725	153	1184368	20270.1746346 ppb		97
53)	2,4-Dinitrophenol	8.725	184	200548	23712.9119996 ppb	#	76
54)	Dibenzofuran	8.913	168	1694621	20320.4233484 ppb		100
55)	2,4-Dinitrotoluene	8.866	165	429908	21718.2950883 ppb		93
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57)	4-Nitrophenol	8.760	139	273693	20880.7272872 ppb		96
58)	Fluorene	9.289	166	1437356	20635.2806207 ppb		100
59)	4-Chlorophenyl-phenyle...	9.272	204	708221	20696.9252042 ppb		96
60)	Diethyl phthalate	9.125	149	1346497	20380.1041193 ppb		100
61)	4-Nitroaniline	9.283	138	275633	18535.2577285 ppb		98
62)	Azobenzene	9.448	77	1386244	19733.4665800 ppb		98
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.313	198	263656	23468.8055597 ppb		95
66)	N-Nitrosodiphenylamine	9.395	169	1208731	21195.0901468 ppb		99
68)	4-Bromophenyl-phenylether	9.813	248	433821	21682.8267756 ppb		91
69)	Hexachlorobenzene	9.889	284	497299	21823.4217667 ppb		98
70)	n-octadecane	10.130	55	213108	20172.5913292 ppb		99
71)	Pentachlorophenol	10.095	266	314103	22744.6043418 ppb		96
72)	Phenanthrene	10.348	178	2166476	20685.0246914 ppb		99
73)	Anthracene	10.407	178	2168931	20725.3659109 ppb		99
74)	Carbazole	10.566	167	1992817	20321.7755680 ppb		100
75)	Di-n-butyl phthalate	10.901	149	2435748	20612.6130995 ppb		100
76)	2-nitrodiphenylamine	0.000		0	N.D. d		
77)	Fluoranthene	11.660	202	2454624	20679.8844404 ppb		99
79)	Benzidine	0.000		0	N.D. d		
80)	Pyrene	11.919	202	2576083	19855.0235481 ppb		99
82)	Benzylbutyl phthalate	12.554	149	1221195	20100.1303892 ppb		98
83)	3,3-Dichlorobenzidine	0.000		0	N.D. d		
84)	Benzo(a)anthracene	13.224	228	2742526	20299.4096197 ppb		98
85)	Chrysene	13.271	228	2680586	20245.5815632 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.148	149	1786477	19424.7668079 ppb		99
87)	Di-n-octyl phthalate	13.907	149	3095600	19757.8203056 ppb		100
89)	Benzo(b)fluoranthene	14.601	252	2779746	21177.7525644 ppb		99
90)	Benzo(k)fluoranthene	14.642	252	2627553	20212.7075287 ppb		98
91)	Benzo(a)pyrene	15.118	252	2634431	20684.3039115 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.242	276	3102066	20536.2289711 ppb		98
93)	Dibenz(a,h)anthracene	17.253	278	2665533	20545.9680973 ppb		97
94)	Benzo(g,h,i)perylene	17.865	276	2551863	20206.5419581 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 08.D
Acq On : 27 May 2015 8:49 pm
Operator : 377
Sample : STD SVMS 20K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 16:34:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 09.D
Acq On : 27 May 2015 9:12 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 16:22:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	149112	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	565343	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	401389	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	754370	8000.0000000 ppb	0.00
78) Chrysene-d12	13.242	240	914086	8000.0000000 ppb	0.00
88) Perylene-d12	15.201	264	865841	8000.0000000 ppb	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	611549	31640.6700361 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 158203.35%#		
7) Phenol-d5	5.101	99	812031	31026.9125972 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 155134.56%#		
23) Nitrobenzene-d5	6.037	82	815569	30717.6324921 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 307176.32%#		
44) 2-Fluorobiphenyl	7.936	172	1922183	30630.7437410 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 306307.44%#		
67) 2,4,6-Tribromophenol	9.548	330	380891	35226.6393272 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 176133.20%#		
81) p-Terphenyl-d14	12.048	244	2930309	30117.0533595 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 301170.53%#		
Target Compounds					Qvalue
2) Pyridine	3.419	79	808617	30729.3271752 ppb	99
3) N-Nitrosodimethylamine	3.390	42	402608	29744.2136740 ppb	95
5) Aniline	5.190	66	395730	30331.2847024 ppb	99
6) bis(2-Chloroethyl)ether	5.231	63	518868	30135.2908014 ppb	96
8) Phenol	5.119	94	831559	30661.8666242 ppb	93
9) Benzaldehyde	5.060	105	2815	254.8705274 ppb #	22
10) 2-Chlorophenol	5.301	128	738910	31495.0356683 ppb	98
11) n-Decane	5.313	41	456212	29006.4966811 ppb	99
12) 1,3-Dichlorobenzene	5.448	146	851650	31313.3858302 ppb	99
13) 1,4-Dichlorobenzene	5.519	146	873887	31555.6037532 ppb	98
14) Benzyl Alcohol	5.607	79	620824	30922.5238794 ppb	100
15) 1,2-Dichlorobenzene	5.666	146	836025	31185.4481934 ppb	97
16) bis(2-Chloroisopropyl)...	5.743	121	238117	30879.9276113 ppb #	92
17) 2-Methylphenol	5.695	108	634768	30549.0367308 ppb	99
18) Hexachloroethane	6.007	117	377525	31533.8336071 ppb	95
19) N-Nitrosodi-n-propylamine	5.872	70	469012	31284.4542791 ppb	94
20) 3&4-Methyl phenol	5.843	107	744267	30697.2104335 ppb	99
21) Acetophenone	5.843	105	6872	212.8914958 ppb #	1
24) Nitrobenzene	6.060	77	810851	30175.4426071 ppb	94
25) Isophorone	6.295	82	1458410	30528.5185449 ppb	100
26) 2-Nitrophenol	6.384	139	441073	32960.6602387 ppb	95
27) 2,4-Dimethylphenol	6.390	107	753707	29631.8688356 ppb	98
28) bis(2-Chlorethoxy)methane	6.501	93	904066	30412.7210609 ppb	99
29) 2,4-Dichlorophenol	6.619	162	710178	31262.0927513 ppb	97
30) Benzoic Acid	6.390	105	24759	1854.3472852 ppb #	1
31) 1,2,4-Trichlorobenzene	6.725	180	810837	31240.8138084 ppb	98
32) Naphthalene	6.813	128	2263707	30024.5468331 ppb	100
33) 4-Chloroaniline	6.848	65	297279	29942.5848404 ppb	96
34) Hexachloro-1,3-butadiene	6.931	225	510622	31881.7864617 ppb	97
35) Caprolactam	7.337	113	22074	3025.4404696 ppb #	35
36) 4-Chloro-3-methylphenol	7.337	107	699167	30786.1384301 ppb	98
37) 2-Methylnaphthalene	7.548	142	1688787	30616.6890158 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 09.D
Acq On : 27 May 2015 9:12 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 16:22:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

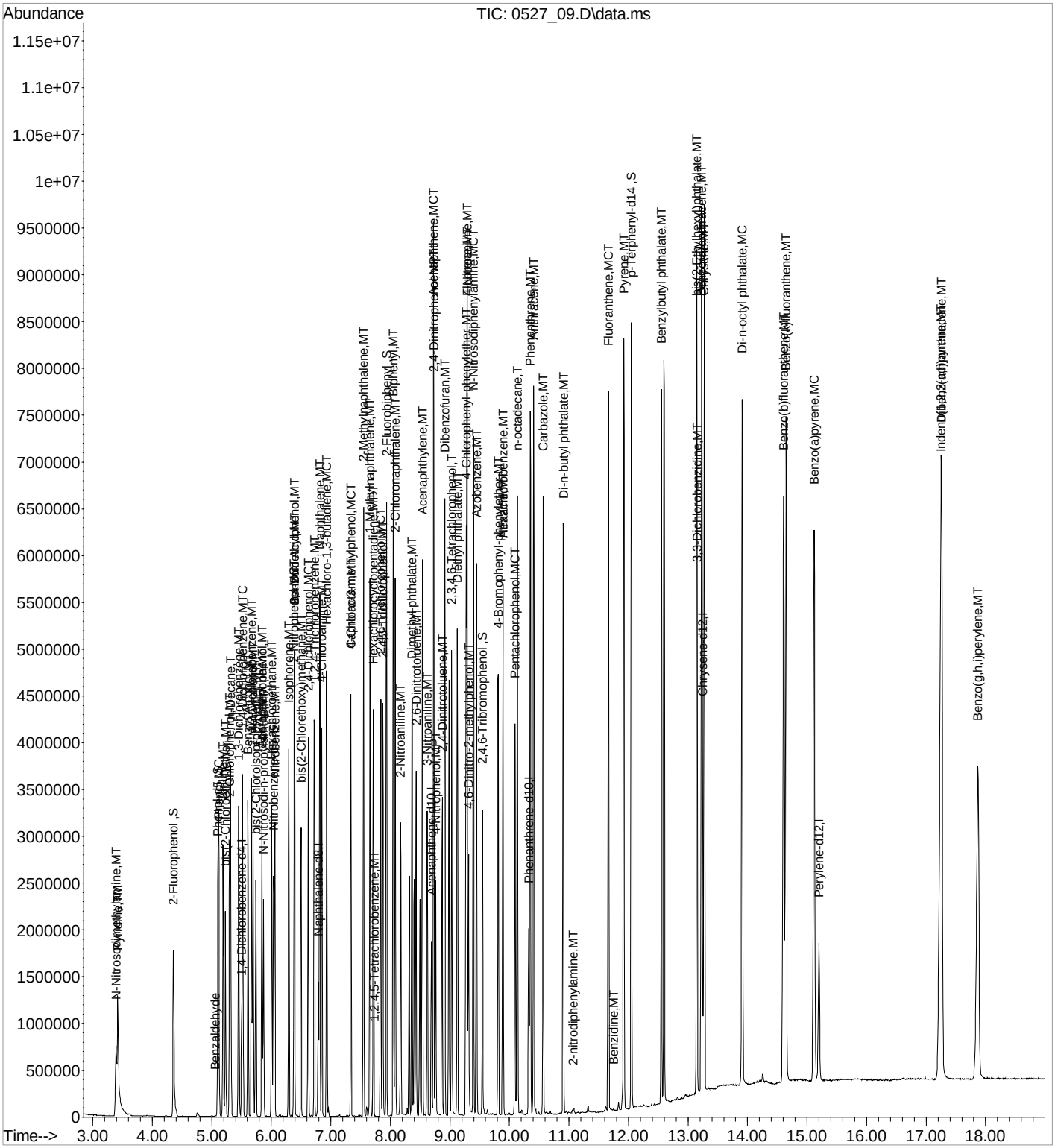
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	1503075	30680.8700992 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.725	216	197	7.3186776 ppb	#	58
41)	Hexachlorocyclopentadiene	7.713	237	685686	33658.9908385 ppb		98
42)	2,4,6-Trichlorophenol	7.837	196	588351	31942.5220880 ppb		96
43)	2,4,5-Trichlorophenol	7.872	196	627635	32170.5001890 ppb		95
45)	Biphenyl	8.048	154	2090064	30214.6469112 ppb		99
46)	2-Chloronaphthalene	8.084	162	1702818	30731.8387151 ppb		99
47)	2-Nitroaniline	8.172	138	556414	33043.5491568 ppb		96
48)	Acenaphthylene	8.536	152	2685946	30148.3760176 ppb		100
49)	Dimethyl phthalate	8.366	163	1928954	30237.7956354 ppb		97
50)	2,6-Dinitrotoluene	8.431	165	468560	31934.1738303 ppb		99
51)	3-Nitroaniline	8.619	138	478185	31149.6969704 ppb		96
52)	Acenaphthene	8.725	153	1737051	30129.6117072 ppb		99
53)	2,4-Dinitrophenol	8.731	184	312071	37396.4267150 ppb	#	44
54)	Dibenzofuran	8.913	168	2470883	30027.7290774 ppb		100
55)	2,4-Dinitrotoluene	8.872	165	628592	32183.1976226 ppb		99
56)	2,3,4,6-Tetrachlorophenol	9.031	232	566870	38588.7700913 ppb		99
57)	4-Nitrophenol	8.766	139	402769	31142.1152641 ppb		89
58)	Fluorene	9.289	166	2084597	30330.4100114 ppb		100
59)	4-Chlorophenyl-phenyle...	9.272	204	1042008	30861.5847183 ppb		98
60)	Diethyl phthalate	9.125	149	1931089	29621.9359141 ppb		100
61)	4-Nitroaniline	9.289	138	371492	25317.8616700 ppb		97
62)	Azobenzene	9.448	77	2023801	29197.2299980 ppb		98
63)	Atrazine	9.889	200	75	4.3006680 ppb	#	1
65)	4,6-Dinitro-2-methylph...	9.313	198	398765	36025.4985068 ppb		98
66)	N-Nitrosodiphenylamine	9.395	169	1729813	30785.3717722 ppb		100
68)	4-Bromophenyl-phenylether	9.813	248	640772	32504.8744980 ppb		92
69)	Hexachlorobenzene	9.889	284	750614	33431.9384764 ppb		97
70)	n-octadecane	10.130	55	309930	29775.9201934 ppb		100
71)	Pentachlorophenol	10.095	266	476010	34983.4000868 ppb		96
72)	Phenanthrene	10.348	178	3099259	30033.0660200 ppb		98
73)	Anthracene	10.407	178	3190932	30946.6510945 ppb		98
74)	Carbazole	10.566	167	2795748	28935.5600583 ppb		100
75)	Di-n-butyl phthalate	10.907	149	3517756	30213.8485449 ppb		99
76)	2-nitrodiphenylamine	11.072	167	1721	76.0366647 ppb	#	1
77)	Fluoranthene	11.666	202	3550201	30356.7805980 ppb		100
79)	Benzidine	11.754	184	170	2.8126013 ppb	#	1
80)	Pyrene	11.919	202	3729150	28911.6764828 ppb		99
82)	Benzylbutyl phthalate	12.554	149	1794091	29703.7439734 ppb		98
83)	3,3-Dichlorobenzidine	13.154	252	217	4.4494670 ppb	#	1
84)	Benzo(a)anthracene	13.230	228	4043435	30104.8167426 ppb		98
85)	Chrysene	13.271	228	3887241	29532.1350899 ppb		99
86)	bis(2-Ethylhexyl)phtha...	13.148	149	2598732	28423.1853364 ppb		98
87)	Di-n-octyl phthalate	13.907	149	4584467	29433.0936535 ppb		99
89)	Benzo(b)fluoranthene	14.607	252	4037590	31092.8602889 ppb		100
90)	Benzo(k)fluoranthene	14.648	252	3973616	30897.4477325 ppb		98
91)	Benzo(a)pyrene	15.118	252	3949914	31347.6814914 ppb		100
92)	Indeno(1,2,3-cd)pyrene	17.248	276	4514506	30209.5045190 ppb		98
93)	Dibenz(a,h)anthracene	17.259	278	3895155	30348.0641614 ppb		96
94)	Benzo(g,h,i)perylene	17.871	276	3668722	29363.8603164 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 09.D
Acq On : 27 May 2015 9:12 pm
Operator : 377
Sample : STD SVMS 30K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 16:22:54 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 10.D
Acq On : 27 May 2015 9:35 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 16:22:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	149815	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	566474	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	404965	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.324	188	741242	8000.0000000 ppb	0.00
78) Chrysene-d12	13.242	240	914698	8000.0000000 ppb	0.00
88) Perylene-d12	15.201	264	873982	8000.0000000 ppb	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	817909	42118.8684552 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 210594.34%#		
7) Phenol-d5	5.107	99	1084182	41231.1494714 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 206155.75%#		
23) Nitrobenzene-d5	6.042	82	1101860	41417.6530358 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 414176.53%#		
44) 2-Fluorobiphenyl	7.936	172	2587915	40875.2850608 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 408752.85%#		
67) 2,4,6-Tribromophenol	9.548	330	527578	49657.1246837 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 248285.62%#		
81) p-Terphenyl-d14	12.048	244	3889670	39950.4011636 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 399504.01%#		
Target Compounds					Qvalue
2) Pyridine	3.419	79	1090120	41232.7013230 ppb	99
3) N-Nitrosodimethylamine	3.390	42	542800	39913.2624415 ppb	95
5) Aniline	5.189	66	533552	40702.9493383 ppb	99
6) bis(2-Chloroethyl)ether	5.231	63	694966	40173.4707683 ppb	98
8) Phenol	5.119	94	1114011	40883.8981554 ppb	95
9) Benzaldehyde	5.084	105	4084	368.0308702 ppb #	1
10) 2-Chlorophenol	5.301	128	993887	42164.2973333 ppb	99
11) n-Decane	5.319	41	597731	37826.1074100 ppb	97
12) 1,3-Dichlorobenzene	5.448	146	1142627	41814.8609849 ppb	99
13) 1,4-Dichlorobenzene	5.519	146	1163976	41833.3397339 ppb	98
14) Benzyl Alcohol	5.607	79	843761	41829.5488289 ppb	99
15) 1,2-Dichlorobenzene	5.666	146	1126206	41812.6659721 ppb	98
16) bis(2-Chloroisopropyl)...	5.742	121	316179	40810.9016163 ppb #	92
17) 2-Methylphenol	5.695	108	858515	41123.2736784 ppb	99
18) Hexachloroethane	6.007	117	505043	41987.1801234 ppb	95
19) N-Nitrosodi-n-propylamine	5.872	70	638831	42411.9175397 ppb	94
20) 3&4-Methyl phenol	5.848	107	997864	40963.6644161 ppb	98
21) Acetophenone	5.848	105	9123	281.3002604 ppb #	1
24) Nitrobenzene	6.060	77	1082187	40192.6778920 ppb	95
25) Isophorone	6.295	82	1954494	40831.2312030 ppb	100
26) 2-Nitrophenol	6.384	139	591392	44105.5164792 ppb	95
27) 2,4-Dimethylphenol	6.389	107	1004857	39426.9147486 ppb	99
28) bis(2-Chlorethoxy)methane	6.501	93	1204228	40429.2700974 ppb	99
29) 2,4-Dichlorophenol	6.619	162	958208	42096.1775893 ppb	99
30) Benzoic Acid	6.389	105	32240	2409.8224382 ppb #	1
31) 1,2,4-Trichlorobenzene	6.725	180	1096884	42177.5665832 ppb	99
32) Naphthalene	6.813	128	3017553	39943.2309951 ppb	99
33) 4-Chloroaniline	6.848	65	397053	39912.1916978 ppb	96
34) Hexachloro-1,3-butadiene	6.931	225	688592	42907.8878528 ppb	97
35) Caprolactam	7.336	113	30401	4158.4116687 ppb #	33
36) 4-Chloro-3-methylphenol	7.336	107	941198	41360.6475375 ppb	98
37) 2-Methylnaphthalene	7.548	142	2237724	40487.5878431 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 10.D
Acq On : 27 May 2015 9:35 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 16:22:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

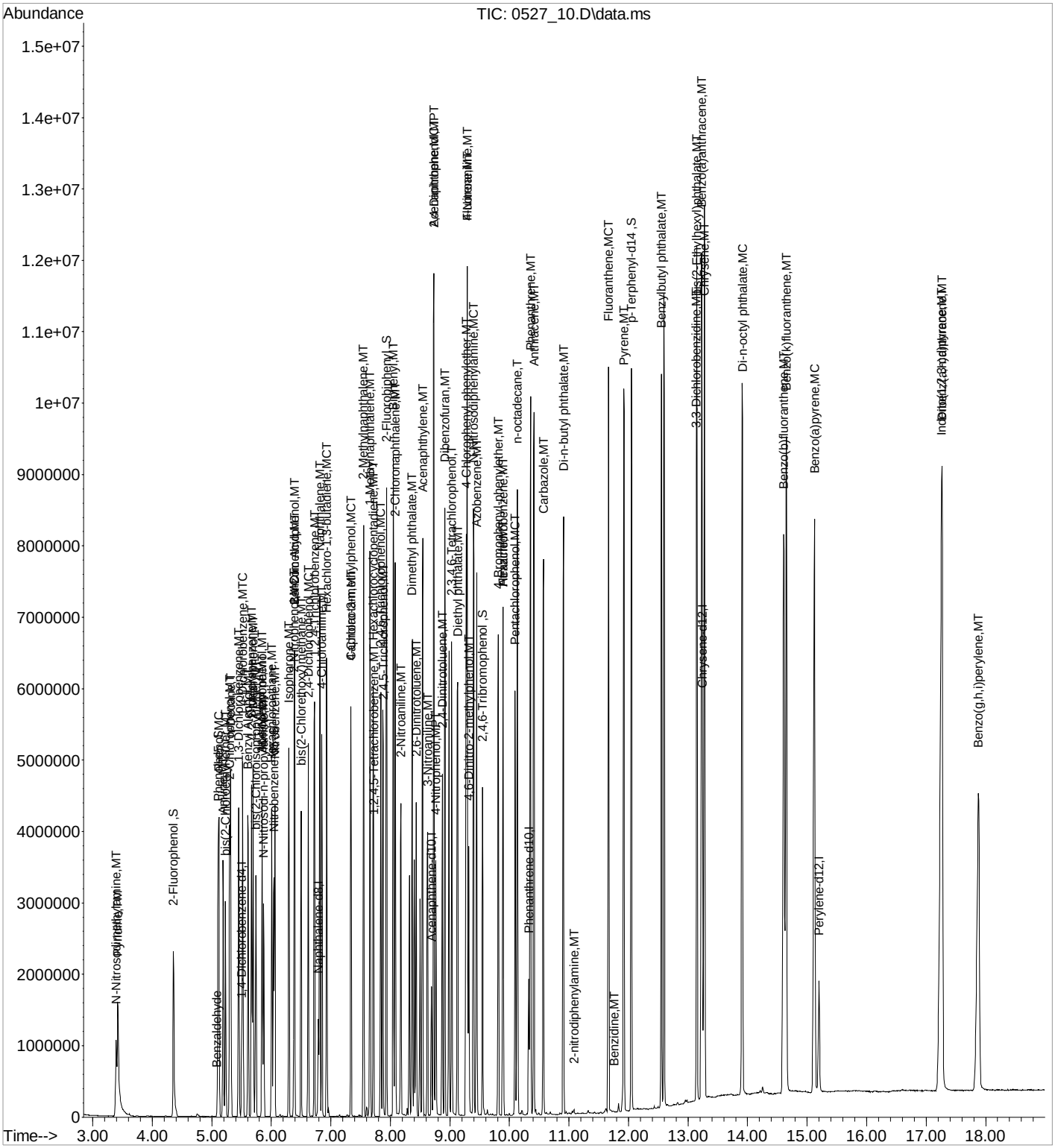
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	2013405	41015.7069032 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.719	216	397	14.7193602 ppb	#	51
41)	Hexachlorocyclopentadiene	7.713	237	939519	45711.9083593 ppb		97
42)	2,4,6-Trichlorophenol	7.836	196	804137	43272.3747711 ppb		97
43)	2,4,5-Trichlorophenol	7.878	196	858940	43637.6609730 ppb		98
45)	Biphenyl	8.048	154	2816033	40350.0107691 ppb		100
46)	2-Chloronaphthalene	8.083	162	2286493	40901.3992554 ppb		100
47)	2-Nitroaniline	8.178	138	769551	45297.4779961 ppb		95
48)	Acenaphthylene	8.542	152	3589790	39937.7566292 ppb		99
49)	Dimethyl phthalate	8.366	163	2585306	40168.7379596 ppb		99
50)	2,6-Dinitrotoluene	8.436	165	636939	43026.5269987 ppb		89
51)	3-Nitroaniline	8.625	138	640803	41374.2743791 ppb		95
52)	Acenaphthene	8.730	153	2297961	39506.7765057 ppb		98
53)	2,4-Dinitrophenol	8.730	184	431667	51271.2044287 ppb	#	42
54)	Dibenzofuran	8.913	168	3300855	39759.8494300 ppb		100
55)	2,4-Dinitrotoluene	8.872	165	850358	43152.9133208 ppb		95
56)	2,3,4,6-Tetrachlorophenol	9.030	232	777280	52444.8602869 ppb		98
57)	4-Nitrophenol	8.766	139	548434	42030.4866521 ppb		97
58)	Fluorene	9.289	166	2762238	39835.0388361 ppb		100
59)	4-Chlorophenyl-phenyle...	9.272	204	1417708	41618.0700010 ppb		96
60)	Diethyl phthalate	9.130	149	2563863	38981.0864755 ppb		98
61)	4-Nitroaniline	9.289	138	497182	33584.6580293 ppb		96
62)	Azobenzene	9.448	77	2705022	38680.5484209 ppb		98
63)	Atrazine	9.895	200	55	3.1259737 ppb	#	1
65)	4,6-Dinitro-2-methylph...	9.319	198	550274	50593.6892831 ppb		92
66)	N-Nitrosodiphenylamine	9.395	169	2285016	41386.5172367 ppb		99
68)	4-Bromophenyl-phenylether	9.813	248	880689	45466.5424658 ppb		93
69)	Hexachlorobenzene	9.895	284	1026184	46515.1608690 ppb		98
70)	n-octadecane	10.130	55	415571	40632.2805627 ppb		100
71)	Pentachlorophenol	10.095	266	651543	48731.9077464 ppb		98
72)	Phenanthrene	10.354	178	4142248	40850.9618318 ppb		99
73)	Anthracene	10.413	178	4210546	41558.4092312 ppb		98
74)	Carbazole	10.572	167	3487096	36730.1044414 ppb		99
75)	Di-n-butyl phthalate	10.907	149	4536255	39651.7340867 ppb		100
76)	2-nitrodiphenylamine	11.083	167	4132	185.7919492 ppb	#	1
77)	Fluoranthene	11.666	202	4571012	39777.6865306 ppb		99
79)	Benzidine	11.760	184	306	5.0592951 ppb	#	1
80)	Pyrene	11.924	202	4763420	36905.5452985 ppb		99
82)	Benzylbutyl phthalate	12.554	149	2458446	40675.8583850 ppb		99
83)	3,3-Dichlorobenzidine	13.142	252	393	8.0528596 ppb	#	1
84)	Benzo(a)anthracene	13.230	228	5410465	40255.8908335 ppb		97
85)	Chrysene	13.277	228	5160818	39181.5174072 ppb		98
86)	bis(2-Ethylhexyl)phtha...	13.148	149	3533856	38625.0833155 ppb		98
87)	Di-n-octyl phthalate	13.912	149	6130540	39332.8231777 ppb		99
89)	Benzo(b)fluoranthene	14.607	252	5640075	43028.7764895 ppb		98
90)	Benzo(k)fluoranthene	14.654	252	5127538	39498.5594599 ppb		98
91)	Benzo(a)pyrene	15.124	252	5340368	41987.9459170 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.259	276	5964165	39538.3622654 ppb		96
93)	Dibenz(a,h)anthracene	17.265	278	5128530	39585.3790982 ppb		97
94)	Benzo(g,h,i)perylene	17.877	276	4721656	37439.3540570 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 10.D
Acq On : 27 May 2015 9:35 pm
Operator : 377
Sample : STD SVMS 40K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 16:22:58 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 11.D
Acq On : 27 May 2015 9:59 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 16:23:02 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	154248	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	590274	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.689	164	421210	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.325	188	772570	8000.0000000 ppb	0.00
78) Chrysene-d12	13.242	240	951903	8000.0000000 ppb	0.00
88) Perylene-d12	15.201	264	923402	8000.0000000 ppb	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.354	112	1020306	51031.4496657 ppb	0.00
Spiked Amount 20.000	Range 10 - 87		Recovery = 255157.25%#		
7) Phenol-d5	5.107	99	1374137	50756.1930374 ppb	0.00
Spiked Amount 20.000	Range 10 - 67		Recovery = 253780.97%#		
23) Nitrobenzene-d5	6.042	82	1371184	49463.0773305 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery = 494630.77%#		
44) 2-Fluorobiphenyl	7.936	172	3189420	48432.9939660 ppb	0.00
Spiked Amount 10.000	Range 26 - 122		Recovery = 484329.94%#		
67) 2,4,6-Tribromophenol	9.548	330	679998	61407.9651156 ppb	0.00
Spiked Amount 20.000	Range 10 - 148		Recovery = 307039.83%#		
81) p-Terphenyl-d14	12.048	244	4875764	48121.1611013 ppb	0.00
Spiked Amount 10.000	Range 34 - 149		Recovery = 481211.61%#		
Target Compounds					Qvalue
2) Pyridine	3.425	79	1356553	49835.6358464 ppb	100
3) N-Nitrosodimethylamine	3.396	42	689326	49230.9033986 ppb	95
5) Aniline	5.195	66	661944	49046.2868913 ppb	98
6) bis(2-Chloroethyl)ether	5.231	63	871909	48953.3834267 ppb	99
8) Phenol	5.119	94	1392264	49627.2453119 ppb	96
9) Benzaldehyde	5.101	105	5617	491.6303618 ppb #	1
10) 2-Chlorophenol	5.301	128	1241863	51170.2221076 ppb	99
11) n-Decane	5.313	41	739671	45463.2229390 ppb	98
12) 1,3-Dichlorobenzene	5.454	146	1426550	50704.7832171 ppb	99
13) 1,4-Dichlorobenzene	5.519	146	1446694	50499.9501163 ppb	98
14) Benzyl Alcohol	5.613	79	1053517	50727.2171046 ppb	99
15) 1,2-Dichlorobenzene	5.666	146	1396524	50358.6620325 ppb	98
16) bis(2-Chloroisopropyl)...	5.742	121	394255	49426.0762485 ppb #	91
17) 2-Methylphenol	5.695	108	1063652	49485.1750035 ppb	100
18) Hexachloroethane	6.007	117	628742	50768.7629496 ppb	95
19) N-Nitrosodi-n-propylamine	5.878	70	796600	51366.2646251 ppb	92
20) 3&4-Methyl phenol	5.848	107	1251282	49890.5623249 ppb	99
21) Acetophenone	5.848	105	11885	355.9323011 ppb #	1
24) Nitrobenzene	6.060	77	1357163	48372.9939952 ppb	96
25) Isophorone	6.295	82	2424384	48605.5509776 ppb	99
26) 2-Nitrophenol	6.384	139	741417	53064.7758155 ppb	91
27) 2,4-Dimethylphenol	6.395	107	1246363	46930.9566207 ppb	97
28) bis(2-Chlorethoxy)methane	6.501	93	1507635	48574.6542707 ppb	99
29) 2,4-Dichlorophenol	6.625	162	1205399	50820.6276718 ppb	91
30) Benzoic Acid	6.395	105	39842	2857.9687065 ppb #	1
31) 1,2,4-Trichlorobenzene	6.725	180	1370580	50576.8218414 ppb	99
32) Naphthalene	6.813	128	3716303	47209.1007968 ppb	99
33) 4-Chloroaniline	6.848	65	496982	47942.8758794 ppb	95
34) Hexachloro-1,3-butadiene	6.931	225	867446	51873.3075116 ppb	98
35) Caprolactam	7.336	113	37684	4946.7838454 ppb #	33
36) 4-Chloro-3-methylphenol	7.336	107	1189424	50161.3664260 ppb	99
37) 2-Methylnaphthalene	7.548	142	2788193	48413.2840391 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 11.D
Acq On : 27 May 2015 9:59 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 16:23:02 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

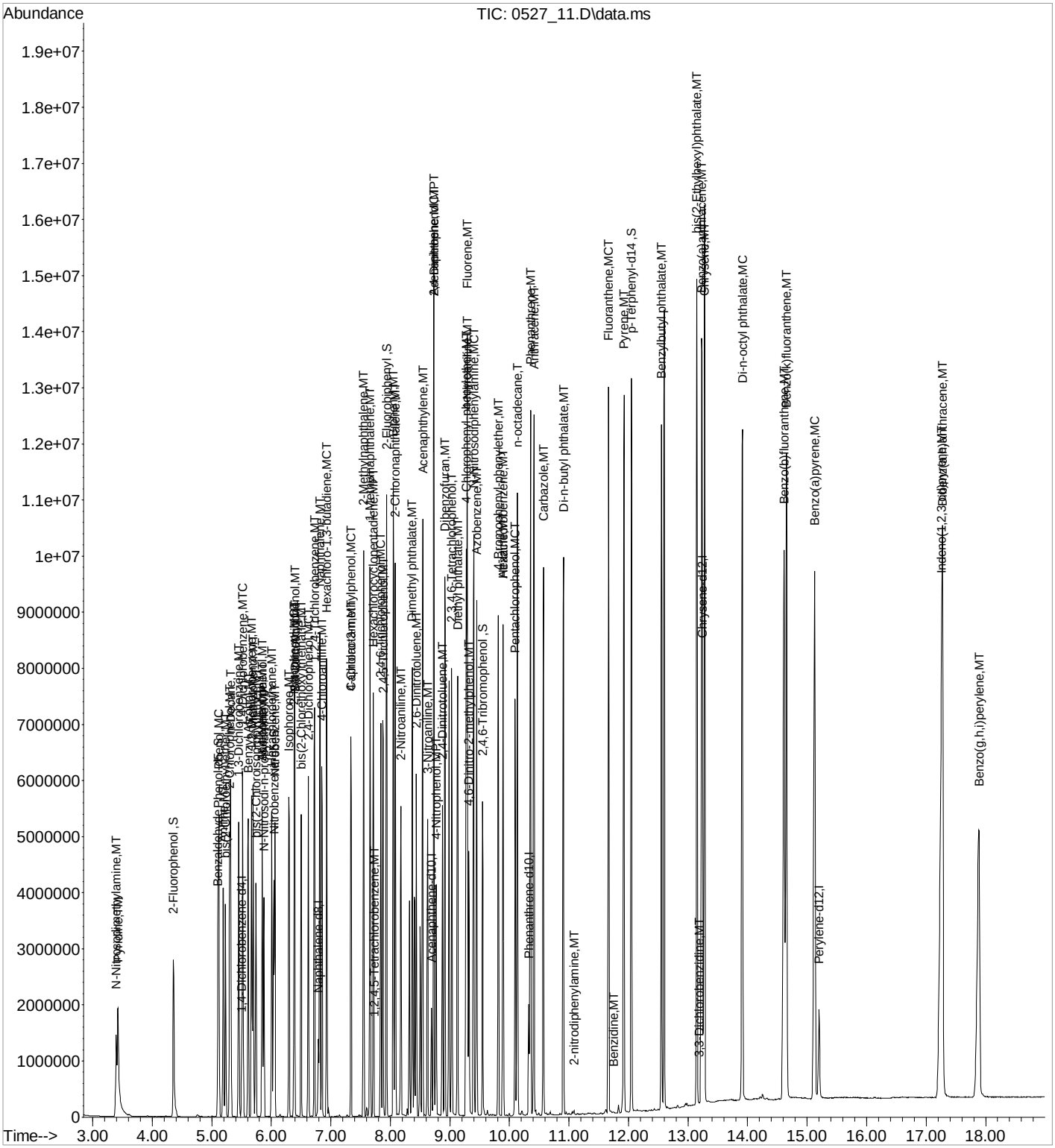
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.660	142	2489096	48661.6725971 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.725	216	445	15.8337858 ppb	#	60
41)	Hexachlorocyclopentadiene	7.713	237	1190148	55672.8652110 ppb		98
42)	2,4,6-Trichlorophenol	7.836	196	1006545	52075.4098816 ppb		97
43)	2,4,5-Trichlorophenol	7.878	196	1087763	53131.4581571 ppb		98
45)	Biphenyl	8.048	154	3456824	47621.3826178 ppb		99
46)	2-Chloronaphthalene	8.083	162	2836604	48784.9447183 ppb		100
47)	2-Nitroaniline	8.178	138	957435	54183.2101846 ppb		95
48)	Acenaphthylene	8.542	152	4447503	47571.8114773 ppb		99
49)	Dimethyl phthalate	8.366	163	3211997	47981.0978343 ppb		97
50)	2,6-Dinitrotoluene	8.436	165	804125	52225.2865628 ppb		94
51)	3-Nitroaniline	8.625	138	811371	50366.7759255 ppb		99
52)	Acenaphthene	8.730	153	2852707	47152.5219895 ppb		97
53)	2,4-Dinitrophenol	8.730	184	555231	63404.0782481 ppb	#	47
54)	Dibenzofuran	8.913	168	4112322	47623.8184369 ppb		99
55)	2,4-Dinitrotoluene	8.878	165	1074154	52407.5293049 ppb		96
56)	2,3,4,6-Tetrachlorophenol	9.030	232	970993	62988.3678949 ppb		99
57)	4-Nitrophenol	8.772	139	697767	51412.5672408 ppb		91
58)	Fluorene	9.289	166	3429950	47556.5953481 ppb		99
59)	4-Chlorophenyl-phenyle...	9.272	204	1772522	50027.1309896 ppb		97
60)	Diethyl phthalate	9.130	149	3205015	46849.8287472 ppb		98
61)	4-Nitroaniline	9.295	138	641628	41670.3989167 ppb		95
62)	Azobenzene	9.448	77	3327253	45743.1916440 ppb		97
63)	Atrazine	9.895	200	168	9.1801702 ppb	#	1
65)	4,6-Dinitro-2-methylph...	9.319	198	709668	62602.9441379 ppb		97
66)	N-Nitrosodiphenylamine	9.401	169	2875267	49965.4720704 ppb		99
68)	4-Bromophenyl-phenylether	9.813	248	1102633	54616.3311022 ppb		95
69)	Hexachlorobenzene	9.895	284	1301397	56598.0239883 ppb		98
70)	n-octadecane	10.130	55	521478	48919.7395084 ppb		99
71)	Pentachlorophenol	10.095	266	836070	59997.7756626 ppb		98
72)	Phenanthrene	10.354	178	5041928	47707.3186805 ppb		97
73)	Anthracene	10.413	178	5141500	48689.1865028 ppb		97
74)	Carbazole	10.572	167	4104436	41479.5395736 ppb		99
75)	Di-n-butyl phthalate	10.907	149	5518379	46280.5411891 ppb		100
76)	2-nitrodiphenylamine	11.083	167	3256	140.4666269 ppb	#	1
77)	Fluoranthene	11.666	202	5560476	46426.0045335 ppb		98
79)	Benzidine	11.754	184	360	5.7194744 ppb	#	1
80)	Pyrene	11.924	202	5750309	42810.3686318 ppb		98
82)	Benzylbutyl phthalate	12.554	149	3045277	48415.8866532 ppb		98
83)	3,3-Dichlorobenzidine	13.183	252	222	4.3711488 ppb	#	41
84)	Benzo(a)anthracene	13.230	228	6662748	47635.7789517 ppb		95
85)	Chrysene	13.277	228	6281228	45823.9264785 ppb		96
86)	bis(2-Ethylhexyl)phtha...	13.148	149	4314543	45314.8363824 ppb		97
87)	Di-n-octyl phthalate	13.913	149	7516851	46342.2765917 ppb		98
89)	Benzo(b)fluoranthene	14.612	252	7352770	53092.9402128 ppb		99
90)	Benzo(k)fluoranthene	14.654	252	6589375	48042.7955555 ppb		96
91)	Benzo(a)pyrene	15.130	252	6678538	49698.8709965 ppb		99
92)	Indeno(1,2,3-cd)pyrene	17.259	276	7287000	45722.4478658 ppb		97
93)	Dibenz(a,h)anthracene	17.277	278	6301744	46037.7766951 ppb		95
94)	Benzo(g,h,i)perylene	17.889	276	5611485	42113.7086184 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 11.D
Acq On : 27 May 2015 9:59 pm
Operator : 377
Sample : STD SVMS 50K PPB 15D30944
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 16:23:02 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



S819E27O.M Thu May 28 16:35:10 2015 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 12.D
Acq On : 27 May 2015 10:22 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 16:23:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.502	152	155997	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	580435	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	406364	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	782796	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	847358	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	856933	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.107	82	53	1.9442913 ppb	0.07
Spiked Amount 10.000	Range 12 - 120		Recovery	= 19.44%	
44) 2-Fluorobiphenyl	8.001	172	223	3.5100873 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 35.10%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.437	79	209	7.5919409 ppb #	27
3) N-Nitrosodimethylamine	3.390	42	318	22.4565771 ppb #	1
5) Aniline	5.107	66	57	4.1760245 ppb #	1
6) bis(2-Chloroethyl)ether	5.102	63	4112	228.2800475 ppb #	9
8) Phenol	5.113	94	226	7.9654499 ppb #	1
9) Benzaldehyde	5.102	105	115548	10000.0000000 ppb	100
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.331	41	194	11.7903488 ppb #	1
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.607	79	342	16.2827926 ppb	95
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.878	107	1549	61.0685931 ppb #	1
21) Acetophenone	5.878	105	337698	10000.0000000 ppb	100
24) Nitrobenzene	6.054	77	68	2.4647900 ppb #	22
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.396	107	195	7.4670581 ppb #	1
28) bis(2-Chlorethoxy)methane	6.437	93	525	17.2017595 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.437	105	137083	10000.0000000 ppb	100
31) 1,2,4-Trichlorobenzene	6.719	180	776	29.1211773 ppb #	76
32) Naphthalene	6.813	128	141	1.8215193 ppb	70
33) 4-Chloroaniline	6.790	65	1589	155.8860962 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.190	113	74909	10000.0000000 ppb	100
36) 4-Chloro-3-methylphenol	7.337	107	68	2.9163634 ppb #	23
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 12.D
Acq On : 27 May 2015 10:22 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 16:23:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

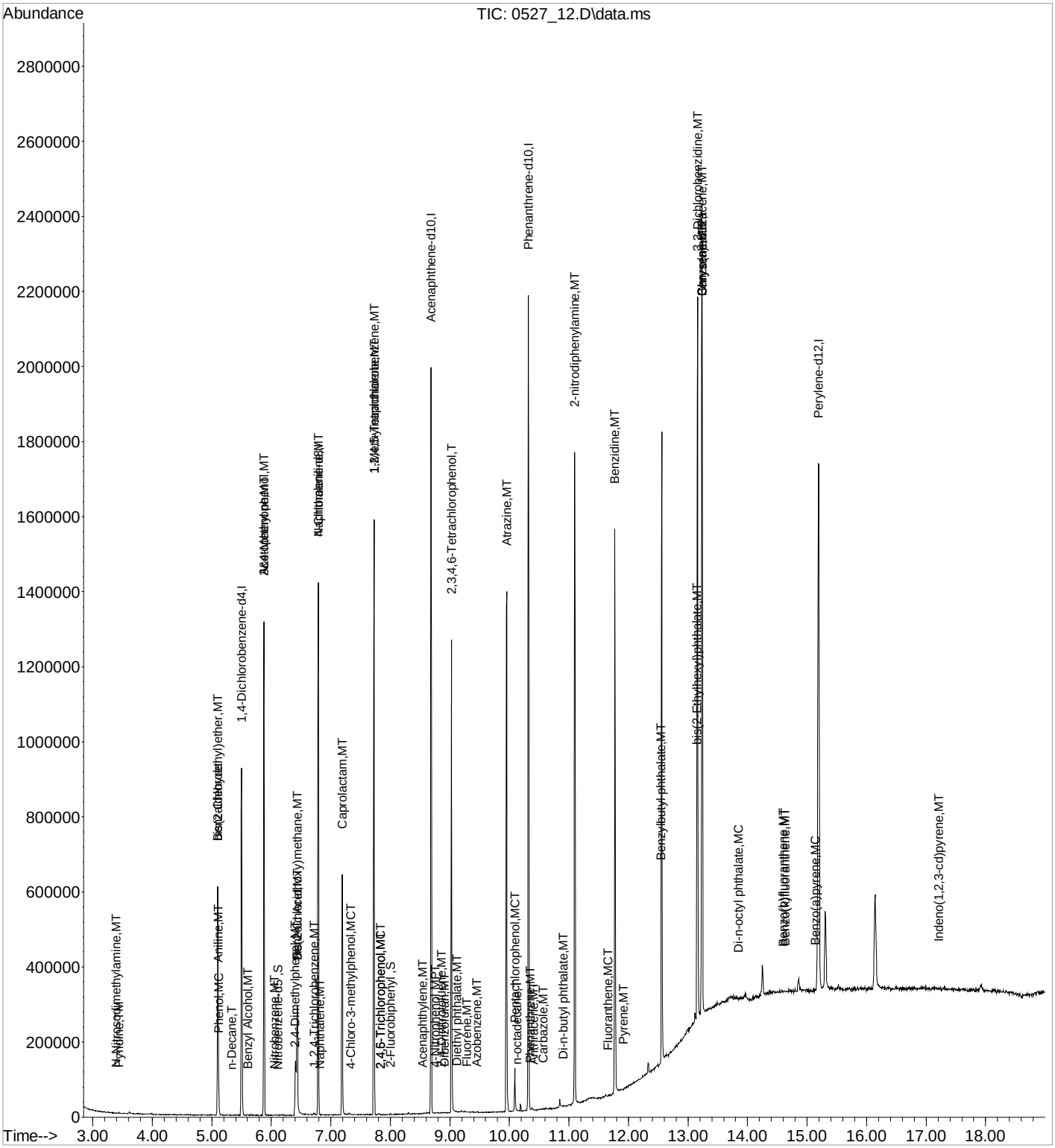
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	7.725	142	1757	34.9314979 ppb #	41
39)	1,2,4,5-Tetrachloroben...	7.725	216	276360	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	7.837	196	53	2.8422274 ppb #	18
43)	2,4,5-Trichlorophenol	7.837	196	53	2.6833466 ppb #	8
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	8.537	152	161	1.7850187 ppb #	62
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	8.907	168	1322	15.8690892 ppb #	55
55)	2,4-Dinitrotoluene	8.860	165	53	2.6803188 ppb #	28
56)	2,3,4,6-Tetrachlorophenol	9.025	232	148721	10000.0000000 ppb	100
57)	4-Nitrophenol	8.754	139	202	15.4274334 ppb #	60
58)	Fluorene	9.284	166	1642	23.5982374 ppb #	18
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	9.119	149	72	1.0909225 ppb #	62
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.448	77	121	1.7242866 ppb #	1
63)	Atrazine	9.954	200	176553	10000.0000000 ppb	100
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.125	55	283	26.2013593 ppb #	58
71)	Pentachlorophenol	10.089	266	13808	977.9407201 ppb	97
72)	Phenanthrene	10.348	178	168	1.5688698 ppb	70
73)	Anthracene	10.407	178	150	1.4019198 ppb	64
74)	Carbazole	10.566	167	481	4.7974975 ppb #	62
75)	Di-n-butyl phthalate	10.901	149	782	6.4726616 ppb	78
76)	2-nitrodiphenylamine	11.095	167	234867	10000.0000000 ppb	100
77)	Fluoranthene	11.660	202	186	1.5326801 ppb #	59
79)	Benzidine	11.772	184	560300	10000.0000000 ppb	100
80)	Pyrene	11.913	202	194	1.6225021 ppb #	58
82)	Benzylbutyl phthalate	12.548	149	1388	24.7899879 ppb #	1
83)	3,3-Dichlorobenzidine	13.160	252	452097	10000.0000000 ppb	100
84)	Benzo(a)anthracene	13.236	228	2711	21.7738468 ppb #	1
85)	Chrysene	13.236	228	2711	22.2179007 ppb #	70
86)	bis(2-Ethylhexyl)phtha...	13.148	149	4666	55.0523815 ppb	88
87)	Di-n-octyl phthalate	13.848	149	1759	12.1824047 ppb	99
89)	Benzo(b)fluoranthene	14.595	252	393	3.0578930 ppb #	62
90)	Benzo(k)fluoranthene	14.630	252	520	4.0853694 ppb #	17
91)	Benzo(a)pyrene	15.136	252	210	1.6839468 ppb #	61
92)	Indeno(1,2,3-cd)pyrene	17.213	276	108	0.7302111 ppb #	39
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 12.D
Acq On : 27 May 2015 10:22 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 16:23:06 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 13.D
Acq On : 27 May 2015 10:45 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 16:23:10 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	150200	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	567631	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.683	164	396252	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	757720	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	818164	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	823032	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	8.001	172	90	1.4527782 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 14.53%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.466	79	60	2.2636230 ppb #	1
3) N-Nitrosodimethylamine	3.396	42	125	9.1679612 ppb #	1
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	5.101	63	270	15.5677169 ppb #	7
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	5.101	105	10958	984.9522512 ppb #	93
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.325	41	134	8.4581627 ppb #	1
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.878	107	234	9.5813933 ppb #	1
21) Acetophenone	5.878	105	33486	1029.8668953 ppb	98
24) Nitrobenzene	6.037	77	60	2.2238718 ppb #	28
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.395	105	9941	741.5389376 ppb #	59
31) 1,2,4-Trichlorobenzene	6.719	180	67	2.5710439 ppb #	18
32) Naphthalene	6.807	128	181	2.3910064 ppb	70
33) 4-Chloroaniline	6.784	65	1629	163.4150516 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.178	113	6202	846.6136166 ppb #	81
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 13.D
Acq On : 27 May 2015 10:45 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 16:23:10 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

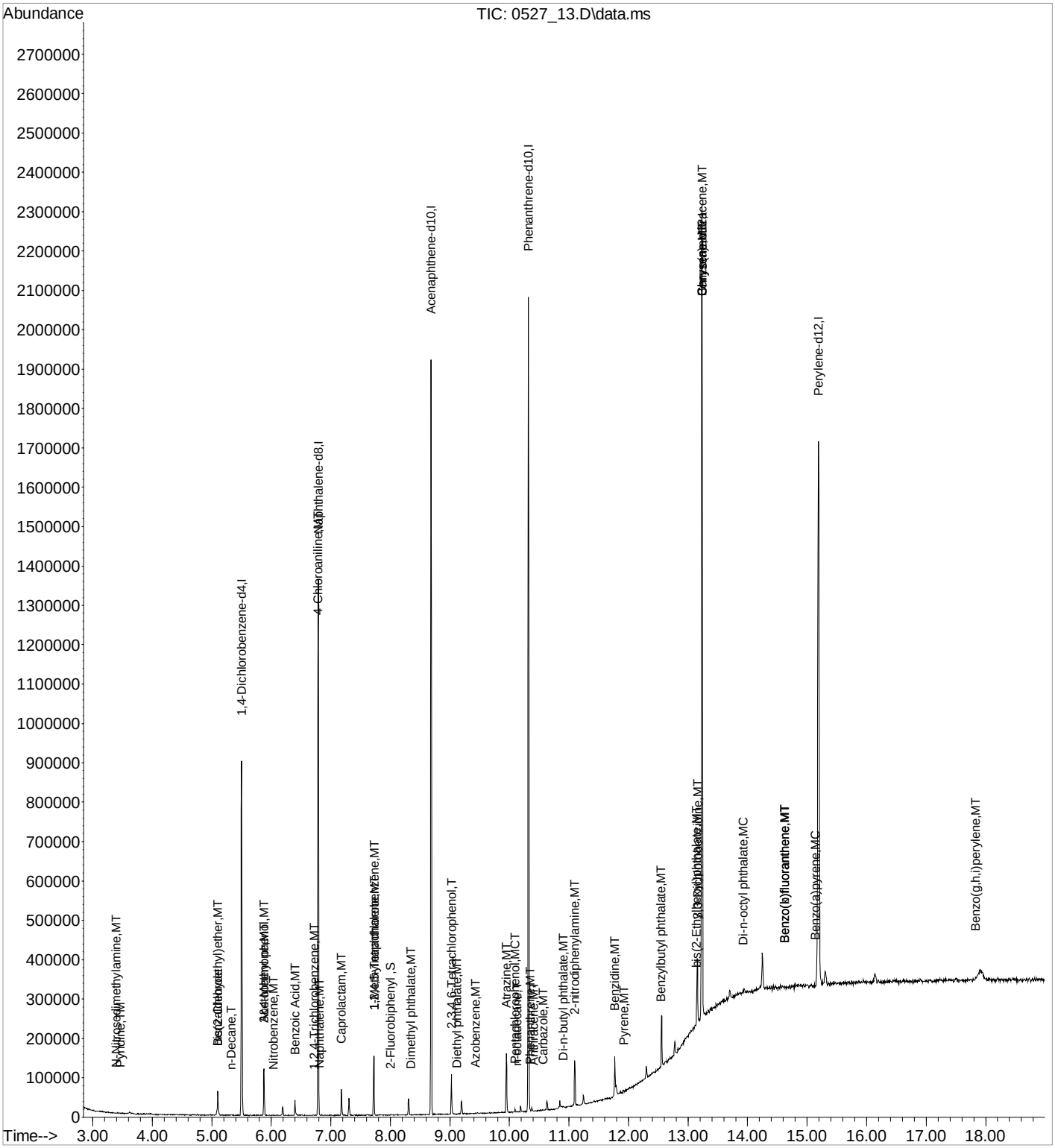
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.725	142	142	2.8868305 ppb #	19
39) 1,2,4,5-Tetrachloroben...	7.725	216	27864	1030.9931131 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	8.348	163	130	2.0642658 ppb #	64
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	9.025	232	12412	855.8806923 ppb	97
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	9.119	149	77	1.1964536 ppb #	62
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.430	77	118	1.7244470 ppb #	24
63) Atrazine	9.948	200	15783	916.7654006 ppb	96
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	10.125	55	168	16.0689136 ppb #	67
71) Pentachlorophenol	10.095	266	964	70.5340194 ppb	87
72) Phenanthrene	10.348	178	125	1.2059449 ppb	70
73) Anthracene	10.407	178	122	1.1779629 ppb	64
74) Carbazole	10.566	167	132	1.3601395 ppb #	62
75) Di-n-butyl phthalate	10.901	149	610	5.2160990 ppb	78
76) 2-nitrodiphenylamine	11.095	167	14661	644.8837602 ppb	91
77) Fluoranthene	0.000		0	N.D.	
79) Benzidine	11.771	184	39111	722.9443461 ppb	98
80) Pyrene	11.919	202	158	1.3685706 ppb #	58
82) Benzylbutyl phthalate	12.548	149	566	10.4695942 ppb #	37
83) 3,3-Dichlorobenzidine	13.160	252	41182	943.4141307 ppb	99
84) Benzo(a)anthracene	13.236	228	2335	19.4231247 ppb #	1
85) Chrysene	13.236	228	2335	19.8192381 ppb	78
86) bis(2-Ethylhexyl)phtha...	13.142	149	3321	40.5813808 ppb	93
87) Di-n-octyl phthalate	13.924	149	812	5.8243811 ppb	83
89) Benzo(b)fluoranthene	14.624	252	1394	11.2933466 ppb #	44
90) Benzo(k)fluoranthene	14.624	252	845	6.9121769 ppb #	36
91) Benzo(a)pyrene	15.136	252	1381	11.5300951 ppb #	33
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	17.830	276	54	0.4546880 ppb #	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 13.D
Acq On : 27 May 2015 10:45 pm
Operator : 377
Sample : STD TCL 1K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 28 16:23:10 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:23:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	153197	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.789	136	578858	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.683	164	399999	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	761267	8000.0000000 ppb	0.00
78) Chrysene-d12	13.236	240	826327	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	832912	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	8.001	172	171	2.7344216 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 27.34%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.042	244	57	0.6480508 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 6.48%#	
Target Compounds					Qvalue
2) Pyridine	3.401	79	59	2.1823506 ppb #	27
3) N-Nitrosodimethylamine	3.390	42	1060	76.2233956 ppb #	11
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	5.101	63	833	47.0896904 ppb #	7
8) Phenol	5.113	94	55	1.9739245 ppb #	1
9) Benzaldehyde	5.101	105	22735	2003.5422794 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.301	41	454	28.0961467 ppb #	75
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.872	107	327	13.1274458 ppb #	1
21) Acetophenone	5.878	105	65917	1987.6271977 ppb	100
24) Nitrobenzene	6.089	77	61	2.2170853 ppb #	32
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.401	105	21096	1543.1142051 ppb #	58
31) 1,2,4-Trichlorobenzene	6.719	180	236	8.8805684 ppb #	77
32) Naphthalene	6.813	128	169	2.1891874 ppb	70
33) 4-Chloroaniline	6.789	65	1807	177.7555581 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.178	113	13236	1771.7576295 ppb	93
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:23:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

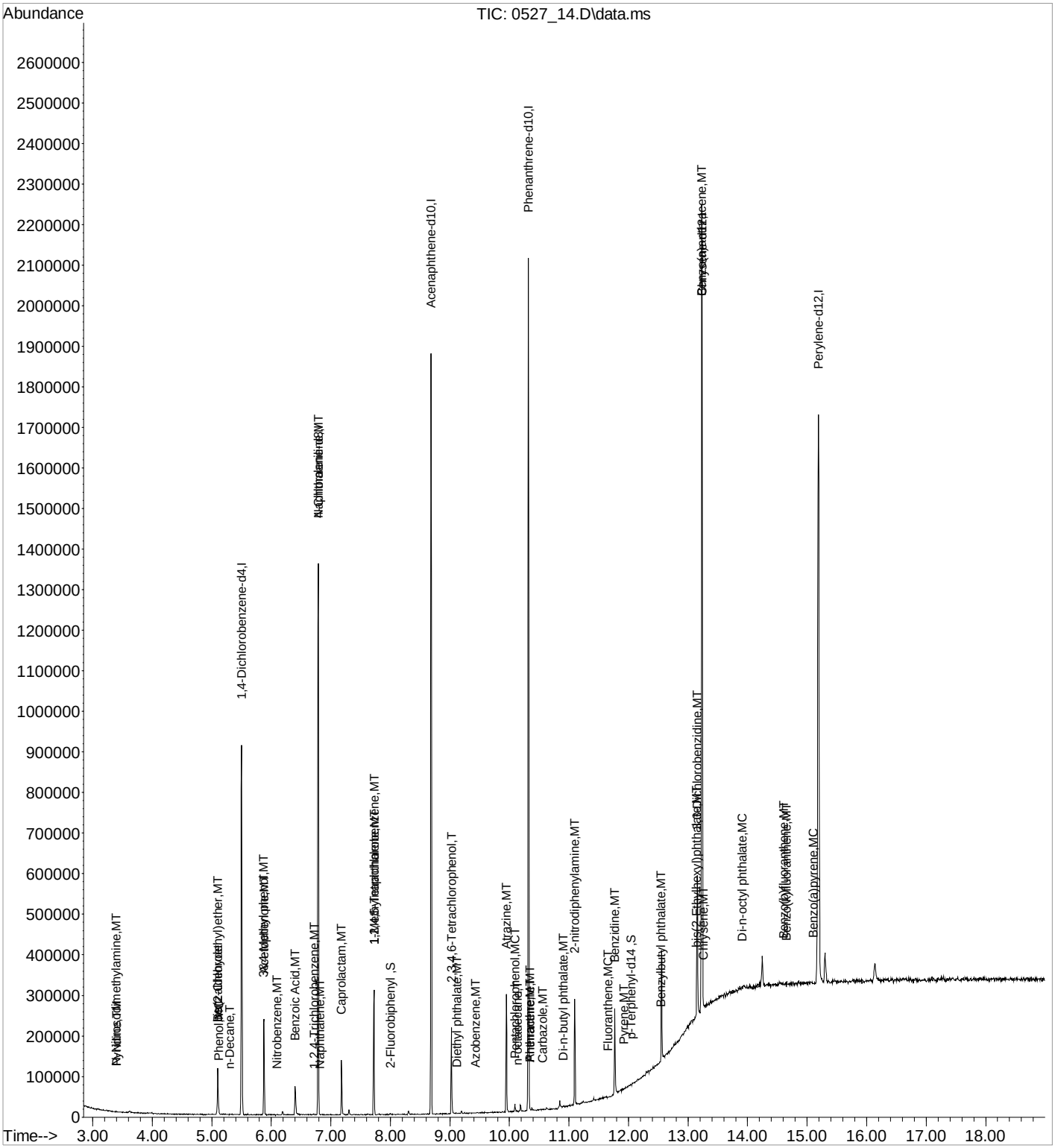
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.725	142	377	7.5156812 ppb #	31
39) 1,2,4,5-Tetrachloroben...	7.725	216	55401	2010.1292005 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	9.025	232	25802	1762.5335596 ppb	98
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	9.119	149	59	0.9081754 ppb #	62
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.425	77	54	0.7817613 ppb #	1
63) Atrazine	9.948	200	30493	1754.6131233 ppb	98
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	10.136	55	1308	124.5250499 ppb #	37
71) Pentachlorophenol	10.089	266	2446	178.1352214 ppb	94
72) Phenanthrene	10.342	178	62	0.5953617 ppb #	14
73) Anthracene	10.342	178	62	0.5958476 ppb	64
74) Carbazole	10.560	167	128	1.3127779 ppb #	62
75) Di-n-butyl phthalate	10.901	149	588	5.0045504 ppb	78
76) 2-nitrodiphenylamine	11.095	167	32078	1404.4195821 ppb	90
77) Fluoranthene	11.660	202	75	0.6354940 ppb #	59
79) Benzidine	11.771	184	86761	1587.8845283 ppb	99
80) Pyrene	11.919	202	89	0.7632882 ppb #	58
82) Benzylbutyl phthalate	12.542	149	721	13.2049604 ppb #	1
83) 3,3-Dichlorobenzidine	13.154	252	83519	1894.3867662 ppb	98
84) Benzo(a)anthracene	13.230	228	2072	17.0651609 ppb #	1
85) Chrysene	13.260	228	113	0.9496574 ppb #	53
86) bis(2-Ethylhexyl)phtha...	13.142	149	2974	35.9821683 ppb	90
87) Di-n-octyl phthalate	13.907	149	492	3.4941961 ppb	95
89) Benzo(b)fluoranthene	14.607	252	555	4.4429402 ppb	75
90) Benzo(k)fluoranthene	14.654	252	869	7.0241781 ppb #	55
91) Benzo(a)pyrene	15.107	252	1157	9.5453130 ppb #	61
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 14.D
Acq On : 27 May 2015 11:08 pm
Operator : 377
Sample : STD TCL 2K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 28 16:23:14 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 15.D
Acq On : 27 May 2015 11:32 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 16:23:18 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	148673	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	572697	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	395518	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	759726	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	830447	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	817007	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 12 - 120		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	8.001	172	112	1.8112569 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 18.11%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 34 - 149		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.384	79	60	2.2868724 ppb #	27
3) N-Nitrosodimethylamine	3.384	42	114	8.4470572 ppb #	11
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	5.101	63	1911	111.3165343 ppb #	7
8) Phenol	5.113	94	120	4.4377952 ppb #	1
9) Benzaldehyde	5.101	105	57313	5204.4501203 ppb	98
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.243	41	1849	117.9087339 ppb #	68
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.601	79	54	2.6976195 ppb #	1
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.878	107	806	33.3415419 ppb #	1
21) Acetophenone	5.878	105	168453	5234.0082489 ppb	100
24) Nitrobenzene	6.048	77	122	4.4818729 ppb #	37
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.419	107	228	8.8486792 ppb #	1
28) bis(2-Chlorethoxy)methane	6.425	93	160	5.3132743 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.425	105	59452	4395.5330831 ppb #	57
31) 1,2,4-Trichlorobenzene	6.719	180	408	15.5180110 ppb #	71
32) Naphthalene	6.813	128	255	3.3387472 ppb	70
33) 4-Chloroaniline	6.790	65	1725	171.5146683 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.184	113	34662	4689.7349964 ppb	94
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 15.D
Acq On : 27 May 2015 11:32 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 16:23:18 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

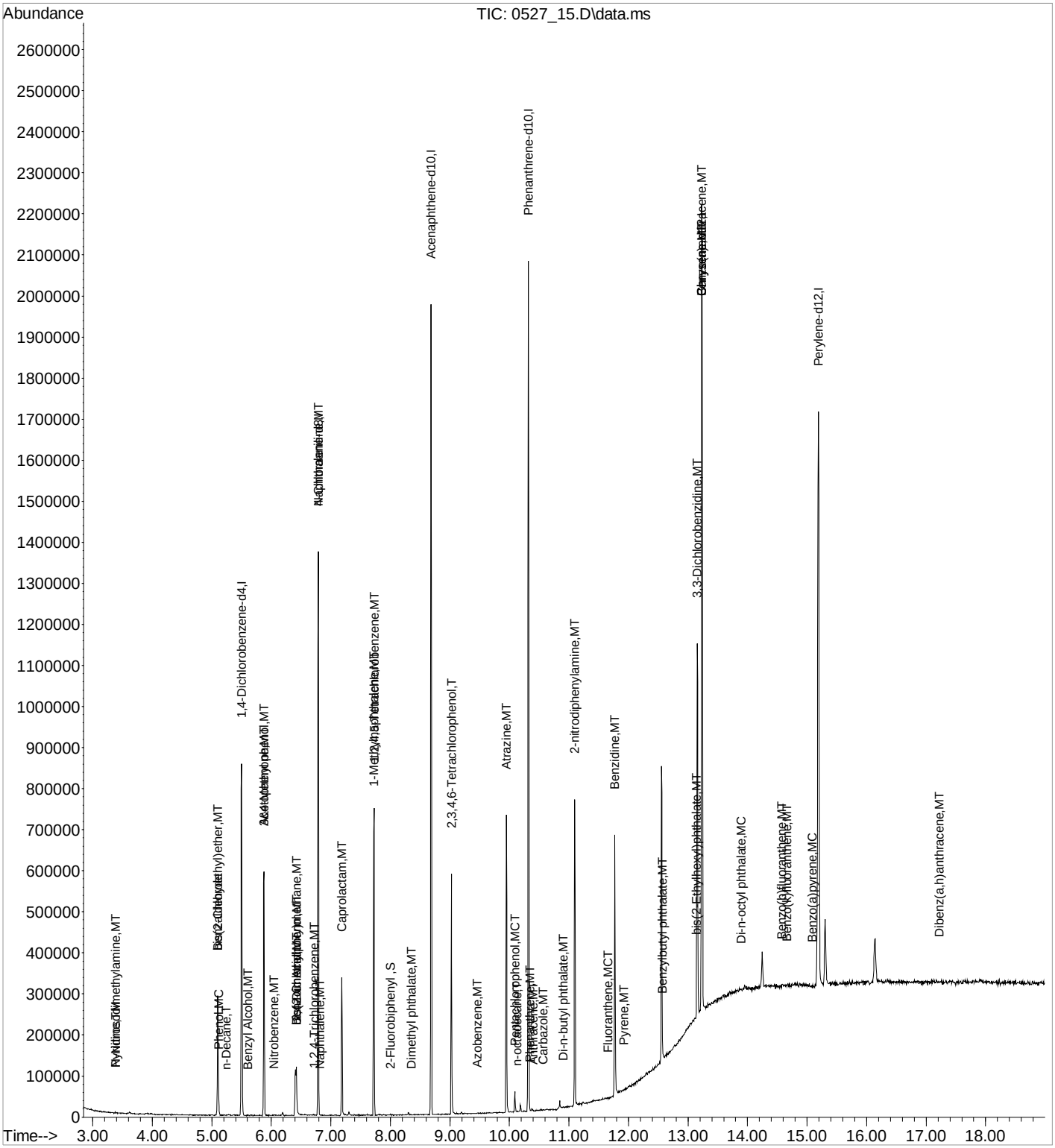
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.719	142	989	19.9283078 ppb	#	41
39)	1,2,4,5-Tetrachloroben...	7.725	216	137384	5038.3653565 ppb		99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.		
42)	2,4,6-Trichlorophenol	0.000		0	N.D.		
43)	2,4,5-Trichlorophenol	0.000		0	N.D.		
45)	Biphenyl	0.000		0	N.D.		
46)	2-Chloronaphthalene	0.000		0	N.D.		
47)	2-Nitroaniline	0.000		0	N.D.		
48)	Acenaphthylene	0.000		0	N.D.		
49)	Dimethyl phthalate	8.354	163	94	1.4953929 ppb	#	64
50)	2,6-Dinitrotoluene	0.000		0	N.D.		
51)	3-Nitroaniline	0.000		0	N.D.		
52)	Acenaphthene	0.000		0	N.D.		
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	0.000		0	N.D.		
55)	2,4-Dinitrotoluene	0.000		0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	9.025	232	67736	4679.4652163 ppb		97
57)	4-Nitrophenol	0.000		0	N.D.		
58)	Fluorene	0.000		0	N.D.		
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60)	Diethyl phthalate	0.000		0	N.D.		
61)	4-Nitroaniline	0.000		0	N.D.		
62)	Azobenzene	9.460	77	55	0.8052593 ppb	#	24
63)	Atrazine	9.948	200	82271	4787.6307560 ppb		99
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D.		
68)	4-Bromophenyl-phenylether	0.000		0	N.D.		
69)	Hexachlorobenzene	0.000		0	N.D.		
70)	n-octadecane	10.125	55	318	30.3358463 ppb	#	29
71)	Pentachlorophenol	10.089	266	6193	451.9334010 ppb		91
72)	Phenanthrene	10.342	178	172	1.6549987 ppb		70
73)	Anthracene	10.401	178	152	1.4637507 ppb		64
74)	Carbazole	10.566	167	239	2.4561743 ppb	#	62
75)	Di-n-butyl phthalate	10.901	149	614	5.2364399 ppb		78
76)	2-nitrodiphenylamine	11.095	167	94382	4140.5571547 ppb		95
77)	Fluoranthene	11.654	202	57	0.4839551 ppb	#	59
79)	Benzidine	11.772	184	242142	4409.6540202 ppb		99
80)	Pyrene	11.919	202	141	1.2032550 ppb	#	58
82)	Benzylbutyl phthalate	12.572	149	434	7.9091824 ppb	#	65
83)	3,3-Dichlorobenzidine	13.154	252	214702	4845.7329721 ppb		98
84)	Benzo(a)anthracene	13.230	228	2195	17.9885096 ppb	#	1
85)	Chrysene	13.230	228	2195	18.3553657 ppb		75
86)	bis(2-Ethylhexyl)phtha...	13.142	149	4284	51.5745980 ppb		94
87)	Di-n-octyl phthalate	13.895	149	667	4.7135491 ppb		73
89)	Benzo(b)fluoranthene	14.577	252	1183	9.6546286 ppb	#	44
90)	Benzo(k)fluoranthene	14.666	252	628	5.1749806 ppb	#	48
91)	Benzo(a)pyrene	15.089	252	912	7.6705233 ppb	#	49
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93)	Dibenz(a,h)anthracene	17.218	278	58	0.4789020 ppb	#	59
94)	Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 15.D
Acq On : 27 May 2015 11:32 pm
Operator : 377
Sample : STD TCL 5K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 16:23:18 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 16.D
Acq On : 27 May 2015 11:55 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 28 16:38:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.502	152	150081	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	569549	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	389197	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	761931	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	835508	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	843431	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.031	82	55	2.0562250 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 20.56%	
44) 2-Fluorobiphenyl	8.001	172	217	3.5663054 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 35.66%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.042	244	341	3.8343335 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 38.34%	
Target Compounds					Qvalue
2) Pyridine	3.443	79	62	2.3409318 ppb #	1
3) N-Nitrosodimethylamine	3.390	42	252	18.4972648 ppb #	11
5) Aniline	5.102	66	394	30.0037082 ppb #	1
6) bis(2-Chloroethyl)ether	5.102	63	8392	484.2513666 ppb #	8
8) Phenol	5.107	94	519	19.0133989 ppb #	1
9) Benzaldehyde	5.102	105	238643	21467.2690259 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.337	41	723	45.6723915 ppb #	88
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.607	79	149	7.3736002 ppb	86
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.807	107	140	5.7370028 ppb #	17
21) Acetophenone	5.878	105	688606	21194.9719246 ppb	100
24) Nitrobenzene	6.049	77	124	4.5805244 ppb #	52
25) Isophorone	6.366	82	54	1.1220205 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.384	107	70	2.7317155 ppb #	1
28) bis(2-Chlorethoxy)methane	6.501	93	130	4.3408964 ppb #	7
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.460	105	297447m	22113.0420376 ppb	
31) 1,2,4-Trichlorobenzene	6.719	180	1761	67.3486759 ppb	92
32) Naphthalene	6.813	128	196	2.5804369 ppb	70
33) 4-Chloroaniline	6.837	65	182	18.1960604 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.201	113	153817	20926.3187368 ppb	98
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 16.D
Acq On : 27 May 2015 11:55 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 28 16:38:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

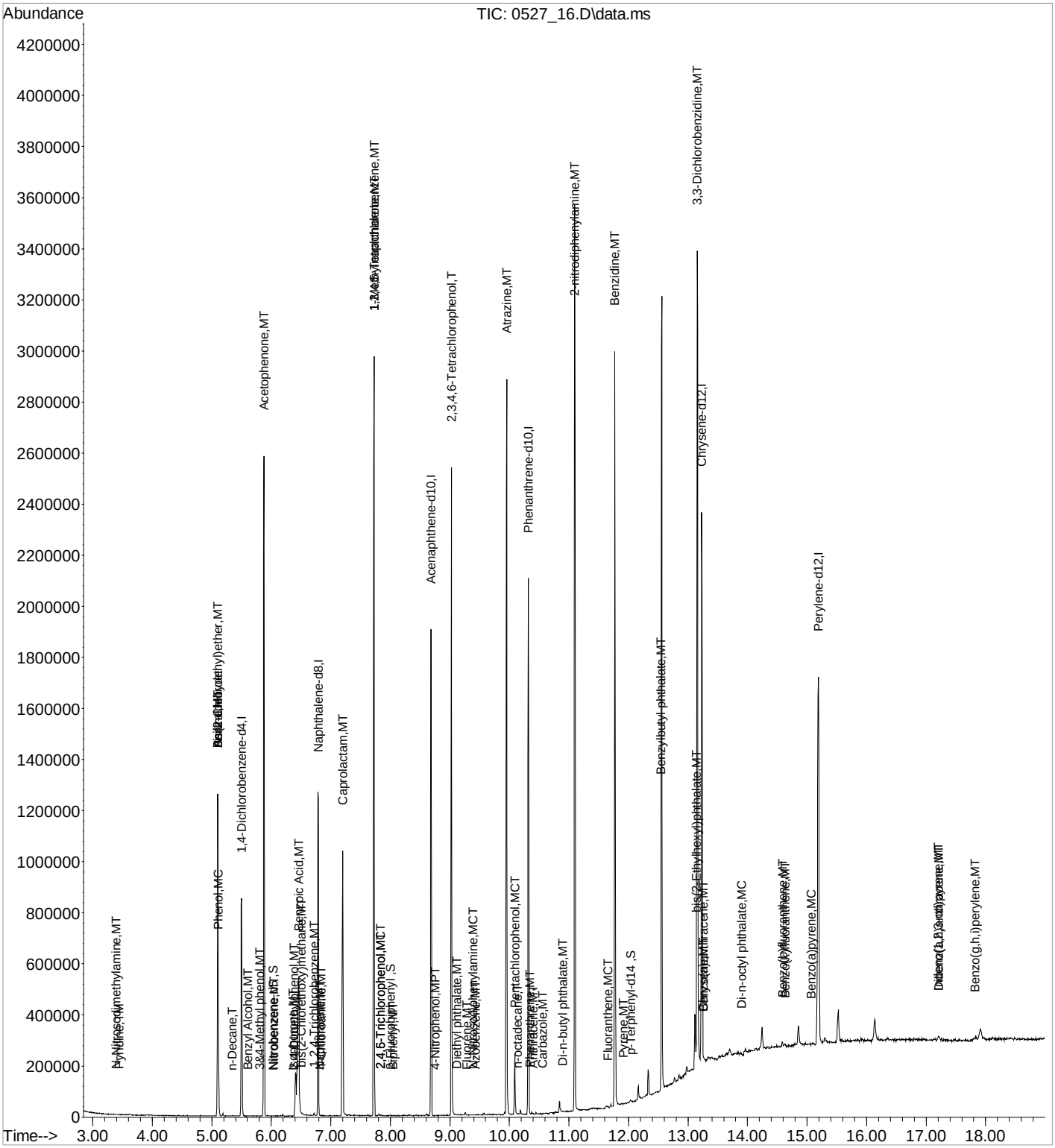
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.725	142	3793	76.8512240 ppb	#	41
39)	1,2,4,5-Tetrachloroben...	7.725	216	537854	19834.0643284 ppb		99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.		
42)	2,4,6-Trichlorophenol	7.837	196	204	11.4224393 ppb	#	84
43)	2,4,5-Trichlorophenol	7.837	196	204	10.7839238 ppb	#	84
45)	Biphenyl	8.043	154	57	0.8498236 ppb	#	40
46)	2-Chloronaphthalene	0.000		0	N.D.		
47)	2-Nitroaniline	0.000		0	N.D.		
48)	Acenaphthylene	0.000		0	N.D.		
49)	Dimethyl phthalate	0.000		0	N.D.		
50)	2,6-Dinitrotoluene	0.000		0	N.D.		
51)	3-Nitroaniline	0.000		0	N.D.		
52)	Acenaphthene	0.000		0	N.D.		
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	0.000		0	N.D.		
55)	2,4-Dinitrotoluene	0.000		0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	9.025	232	289499	20324.5300996 ppb		99
57)	4-Nitrophenol	8.754	139	185	14.7523016 ppb	#	58
58)	Fluorene	9.284	166	77	1.1554280 ppb	#	18
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60)	Diethyl phthalate	9.119	149	164	2.5944839 ppb	#	62
61)	4-Nitroaniline	0.000		0	N.D.		
62)	Azobenzene	9.431	77	166	2.4698917 ppb	#	1
63)	Atrazine	9.954	200	350436	20724.2754335 ppb		99
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	9.389	169	145	2.5549477 ppb	#	70
68)	4-Bromophenyl-phenylether	0.000		0	N.D.		
69)	Hexachlorobenzene	0.000		0	N.D.		
70)	n-octadecane	10.131	55	146	13.8874720 ppb	#	68
71)	Pentachlorophenol	10.089	266	28029	2039.4934236 ppb		95
72)	Phenanthrene	10.342	178	159	1.5254841 ppb		70
73)	Anthracene	10.401	178	288	2.7653962 ppb		64
74)	Carbazole	10.560	167	449	4.6009655 ppb	#	62
75)	Di-n-butyl phthalate	10.895	149	775	6.5903853 ppb		78
76)	2-nitrodiphenylamine	11.095	167	478898	20948.5504460 ppb		99
77)	Fluoranthene	11.654	202	281	2.3789091 ppb	#	59
79)	Benzidine	11.772	184	1113545	20155.9592264 ppb		99
80)	Pyrene	11.913	202	336	2.8499625 ppb	#	45
82)	Benzylbutyl phthalate	12.548	149	2072	37.5312407 ppb	#	1
83)	3,3-Dichlorobenzidine	13.154	252	789776	17716.9364891 ppb		99
84)	Benzo(a)anthracene	13.260	228	1766	14.3850927 ppb		86
85)	Chrysene	13.260	228	1766	14.6784610 ppb		85
86)	bis(2-Ethylhexyl)phtha...	13.142	149	10886	130.2614858 ppb		87
87)	Di-n-octyl phthalate	13.901	149	6832	47.9878579 ppb		98
89)	Benzo(b)fluoranthene	14.589	252	6621	52.3420388 ppb		87
90)	Benzo(k)fluoranthene	14.630	252	5439	43.4154550 ppb		98
91)	Benzo(a)pyrene	15.071	252	1213	9.8825080 ppb		65
92)	Indeno(1,2,3-cd)pyrene	17.207	276	8685	59.6611717 ppb		95
93)	Dibenz(a,h)anthracene	17.212	278	6316	50.5169310 ppb		76
94)	Benzo(g,h,i)perylene	17.818	276	7872	64.6802990 ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 16.D
Acq On : 27 May 2015 11:55 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

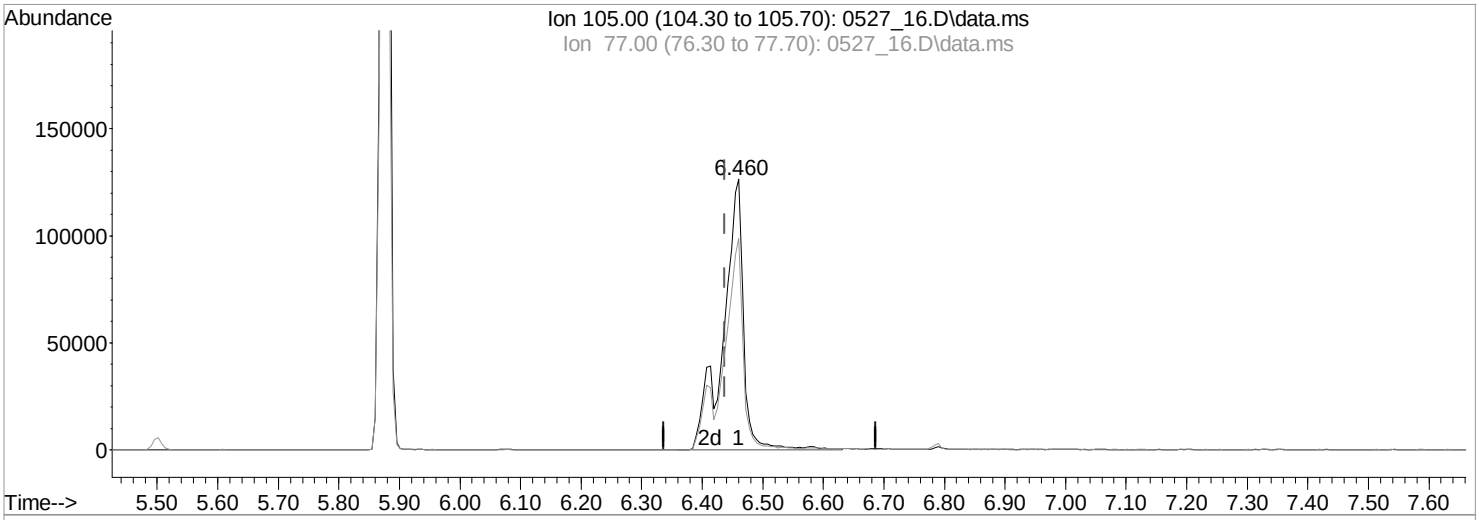
Quant Time: May 28 16:38:17 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

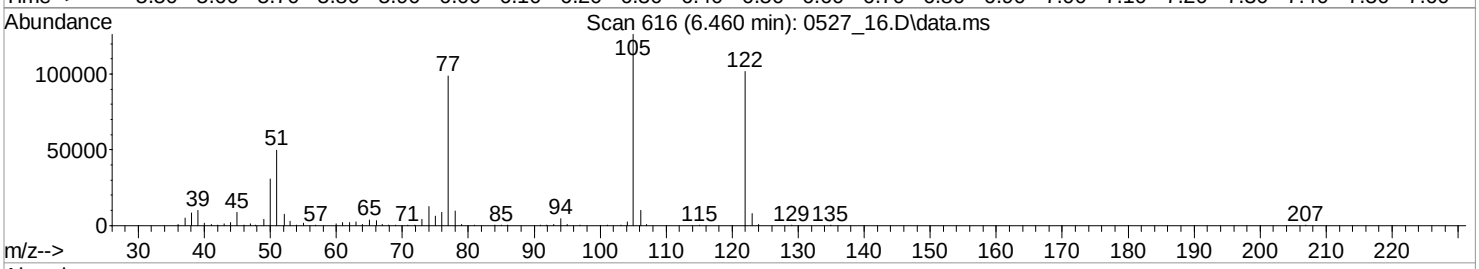


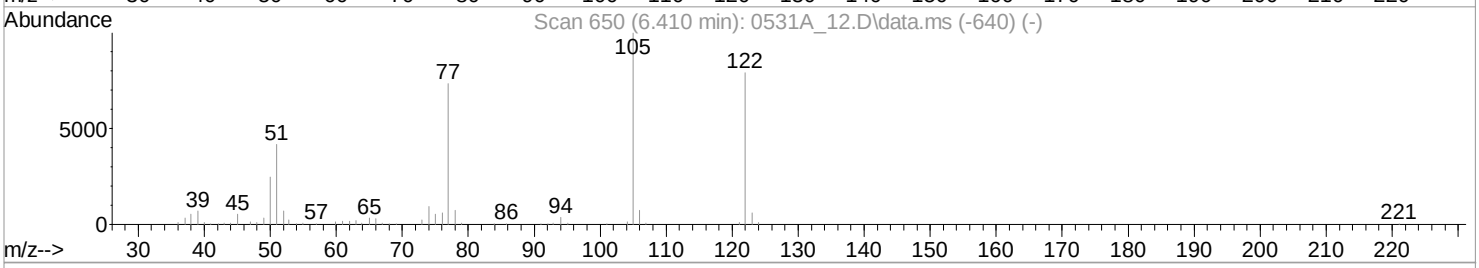
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 16.D
Acq On : 27 May 2015 11:55 pm
Operator : 377
Sample : STD TCL 20K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 28 16:23:22 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_16.D\data.ms

(30) Benzoic Acid (MT)

6.460min (+0.024) 22113.0420376 ppb m

response 297447

Ion	Exp%	Act%
105.00	100	100
77.00	49.30	60.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 17.D
Acq On : 28 May 2015 12:18 am
Operator : 377
Sample : STD TCL 30K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 28 16:38:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	152466	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	576100	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	396965	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	761580	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	843602	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	848543	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.084	82	148	5.4701960 ppb	0.05
Spiked Amount 10.000	Range 12 - 120		Recovery	= 54.70%	
44) 2-Fluorobiphenyl	8.001	172	220	3.5448572 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 35.45%	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.036	244	112	1.2472874 ppb	-0.02
Spiked Amount 10.000	Range 34 - 149		Recovery	= 12.47%#	
Target Compounds					Qvalue
2) Pyridine	3.449	79	62	2.3043130 ppb #	4
3) N-Nitrosodimethylamine	3.407	42	786	56.7913545 ppb #	11
5) Aniline	5.101	66	529	39.6540081 ppb #	1
6) bis(2-Chloroethyl)ether	5.101	63	12460	707.7438926 ppb #	8
8) Phenol	5.107	94	716	25.8201127 ppb #	1
9) Benzaldehyde	5.101	105	369536	32721.8282398 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.366	41	357	22.1991517 ppb #	57
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.601	79	303	14.7600780 ppb #	27
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.878	107	4965	200.2760373 ppb #	1
21) Acetophenone	5.878	105	1079734	32713.8402452 ppb	99
24) Nitrobenzene	6.048	77	163	5.9527047 ppb #	58
25) Isophorone	6.295	82	56	1.1503454 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.407	107	248	9.5680254 ppb #	1
28) bis(2-Chlorethoxy)methane	6.472	93	2440	80.5488070 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.478	105	507434m	37295.0917712 ppb	
31) 1,2,4-Trichlorobenzene	6.719	180	2872	108.5893816 ppb	97
32) Naphthalene	6.813	128	173	2.2517309 ppb	70
33) 4-Chloroaniline	6.848	65	277	27.3790875 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.207	113	250386	33676.8730553 ppb	99
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 17.D
Acq On : 28 May 2015 12:18 am
Operator : 377
Sample : STD TCL 30K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 28 16:38:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

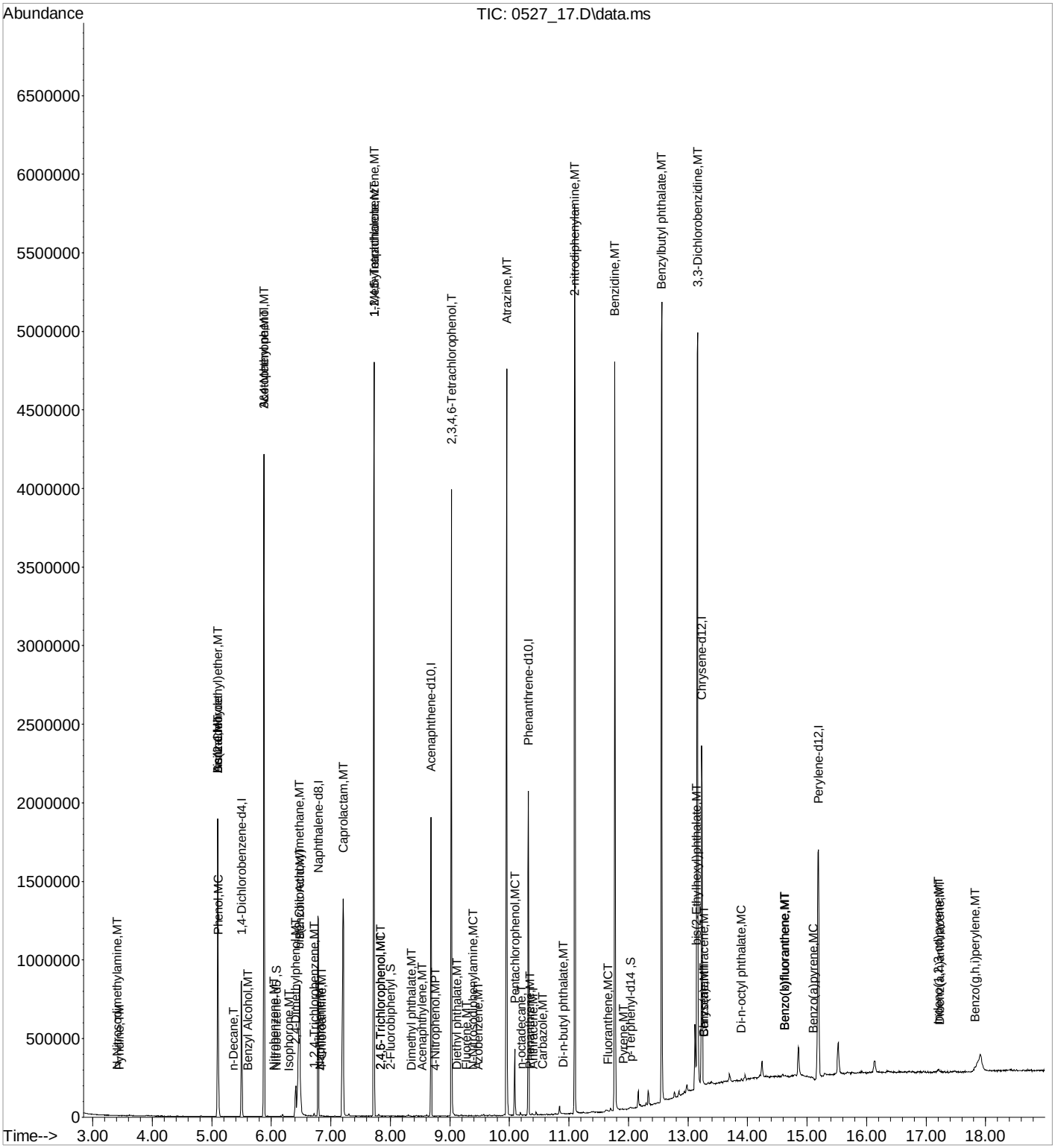
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.725	142	5848	117.1408924 ppb #	40
39) 1,2,4,5-Tetrachloroben...	7.725	216	845241	30814.9230996 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	7.837	196	411	22.5625291 ppb #	83
43) 2,4,5-Trichlorophenol	7.837	196	411	21.3012815 ppb	91
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	8.531	152	69	0.7831212 ppb #	62
49) Dimethyl phthalate	8.354	163	73	1.1570826 ppb #	64
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	9.025	232	461470	31763.9267209 ppb	98
57) 4-Nitrophenol	8.754	139	71	5.5509034 ppb #	10
58) Fluorene	9.278	166	66	0.9709869 ppb #	18
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	9.119	149	60	0.9306270 ppb #	62
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.478	77	285	4.1574971 ppb #	66
63) Atrazine	9.954	200	563318	32661.9069060 ppb	98
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	9.389	169	54	0.9519363 ppb #	31
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	10.195	55	305	29.0248707 ppb #	28
71) Pentachlorophenol	10.089	266	47398	3450.4428263 ppb	97
72) Phenanthrene	10.342	178	208	1.9965216 ppb	70
73) Anthracene	10.395	178	278	2.6706058 ppb	64
74) Carbazole	10.560	167	317	3.2498402 ppb #	62
75) Di-n-butyl phthalate	10.901	149	574	4.8833866 ppb	78
76) 2-nitrodiphenylamine	11.095	167	794938	34789.1906047 ppb	99
77) Fluoranthene	11.654	202	83	0.7029910 ppb #	37
79) Benzidine	11.772	184	1791407	32114.6340679 ppb	99
80) Pyrene	11.913	202	254	2.1337650 ppb #	58
82) Benzylbutyl phthalate	12.554	149	1820	32.6503296 ppb #	1
83) 3,3-Dichlorobenzidine	13.160	252	1244592	27651.8831672 ppb	99
84) Benzo(a)anthracene	13.266	228	952	7.6801893 ppb	86
85) Chrysene	13.266	228	952	7.8368184 ppb	90
86) bis(2-Ethylhexyl)phtha...	13.142	149	15819	187.4734344 ppb	94
87) Di-n-octyl phthalate	13.895	149	9759	67.8893790 ppb	97
89) Benzo(b)fluoranthene	14.624	252	1688	13.2640208 ppb	79
90) Benzo(k)fluoranthene	14.624	252	4703	37.3143586 ppb	88
91) Benzo(a)pyrene	15.101	252	2813	22.7798998 ppb	88
92) Indeno(1,2,3-cd)pyrene	17.206	276	8913	60.8585451 ppb	95
93) Dibenz(a,h)anthracene	17.224	278	6362	50.5782974 ppb	98
94) Benzo(g,h,i)perylene	17.818	276	8729	71.2897564 ppb	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 17.D
Acq On : 28 May 2015 12:18 am
Operator : 377
Sample : STD TCL 30K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

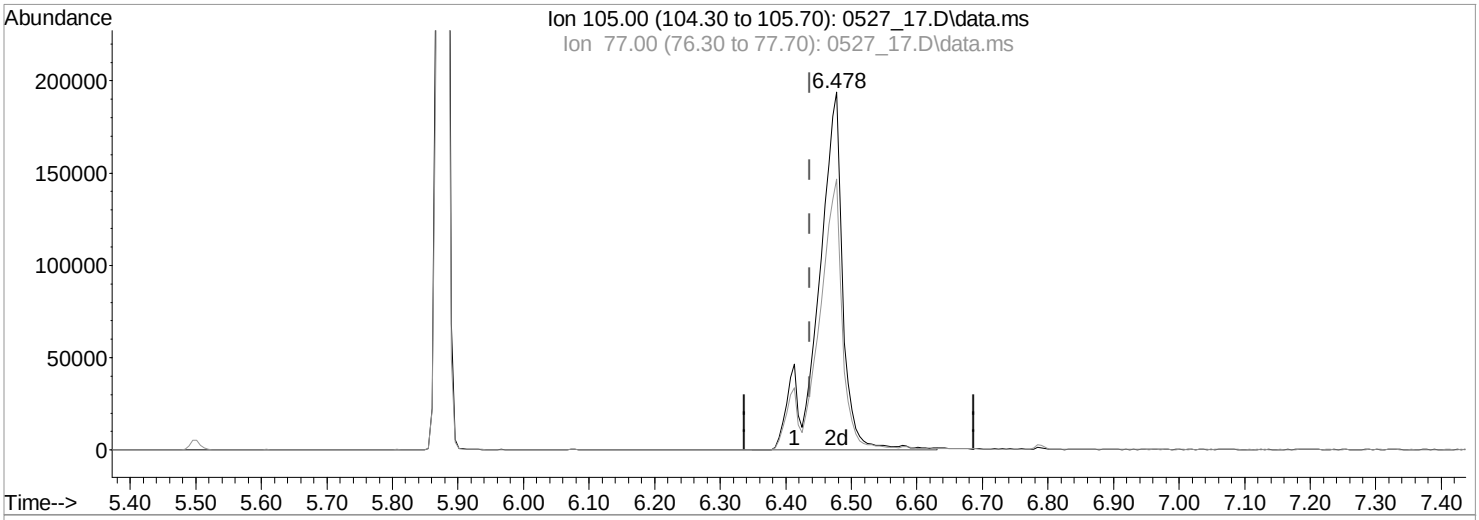
Quant Time: May 28 16:38:32 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

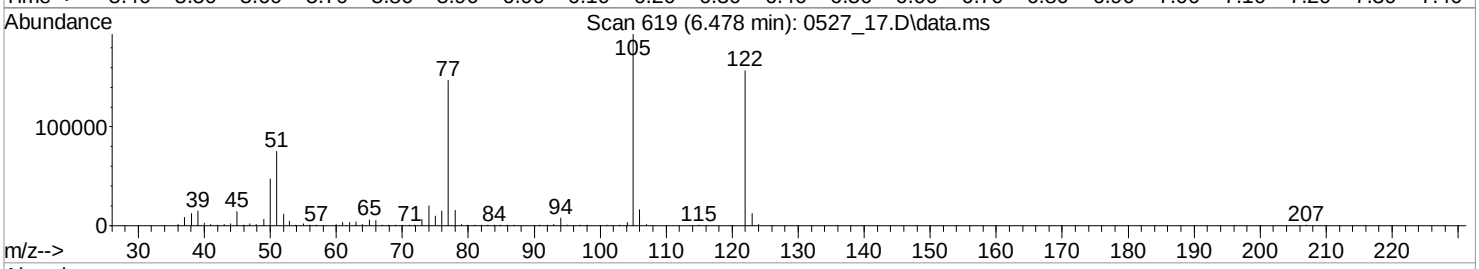


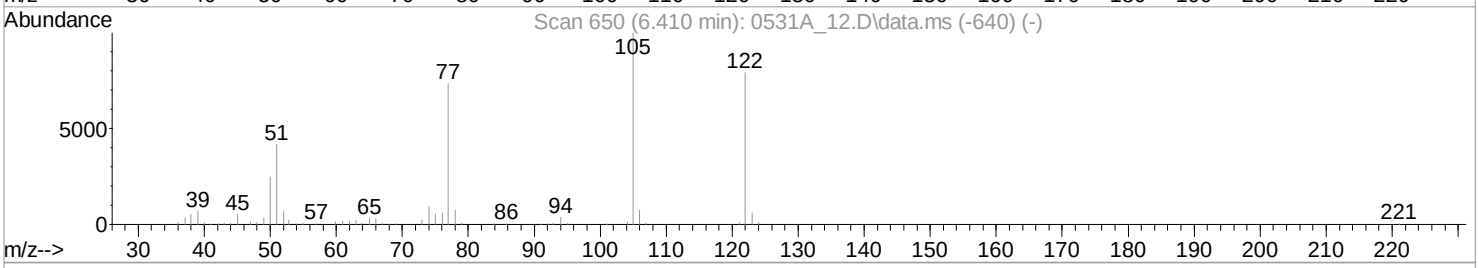
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 17.D
Acq On : 28 May 2015 12:18 am
Operator : 377
Sample : STD TCL 30K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 28 16:23:26 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_17.D\data.ms

(30) Benzoic Acid (MT)

6.478min (+0.041) 37295.0917712 ppb m

response 507434

Ion	Exp%	Act%
105.00	100	100
77.00	49.30	8.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 18.D
Acq On : 28 May 2015 12:41 am
Operator : 377
Sample : STD TCL 40K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 28 16:38:46 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	156556	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	593394	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	411085	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	791171	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	848314	8000.0000000 ppb	0.00
88) Perylene-d12	15.189	264	851496	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.037	82	70	2.5118514 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 25.12%	
44) 2-Fluorobiphenyl	8.001	172	155	2.4117281 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 24.12%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.042	244	215	2.3810469 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 23.81%#	
Target Compounds					Qvalue
2) Pyridine	3.390	79	65	2.3526993 ppb #	28
3) N-Nitrosodimethylamine	3.396	42	326	22.9393216 ppb #	11
5) Aniline	5.107	66	765	55.8465237 ppb #	1
6) bis(2-Chloroethyl)ether	5.101	63	16744	926.2337322 ppb #	8
8) Phenol	5.107	94	941	33.0474553 ppb #	1
9) Benzaldehyde	5.101	105	506043	43638.6713019 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.331	41	2324	140.7367692 ppb #	52
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.601	79	353	16.7464987 ppb	100
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.807	107	264	10.3709121 ppb #	4
21) Acetophenone	5.878	105	1465845	43251.9897396 ppb	99
24) Nitrobenzene	6.072	77	425	15.0685128 ppb #	50
25) Isophorone	6.290	82	294	5.8633024 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.395	107	59	2.2099242 ppb #	1
28) bis(2-Chlorethoxy)methane	6.490	93	3372	108.0715988 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.490	105	723026m	51591.8090131 ppb	
31) 1,2,4-Trichlorobenzene	6.719	180	3598	132.0744491 ppb	96
32) Naphthalene	6.807	128	193	2.4388350 ppb	70
33) 4-Chloroaniline	6.790	65	1841	176.6638596 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.219	113	343911	44907.8754118 ppb	99
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 18.D
Acq On : 28 May 2015 12:41 am
Operator : 377
Sample : STD TCL 40K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 28 16:38:46 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

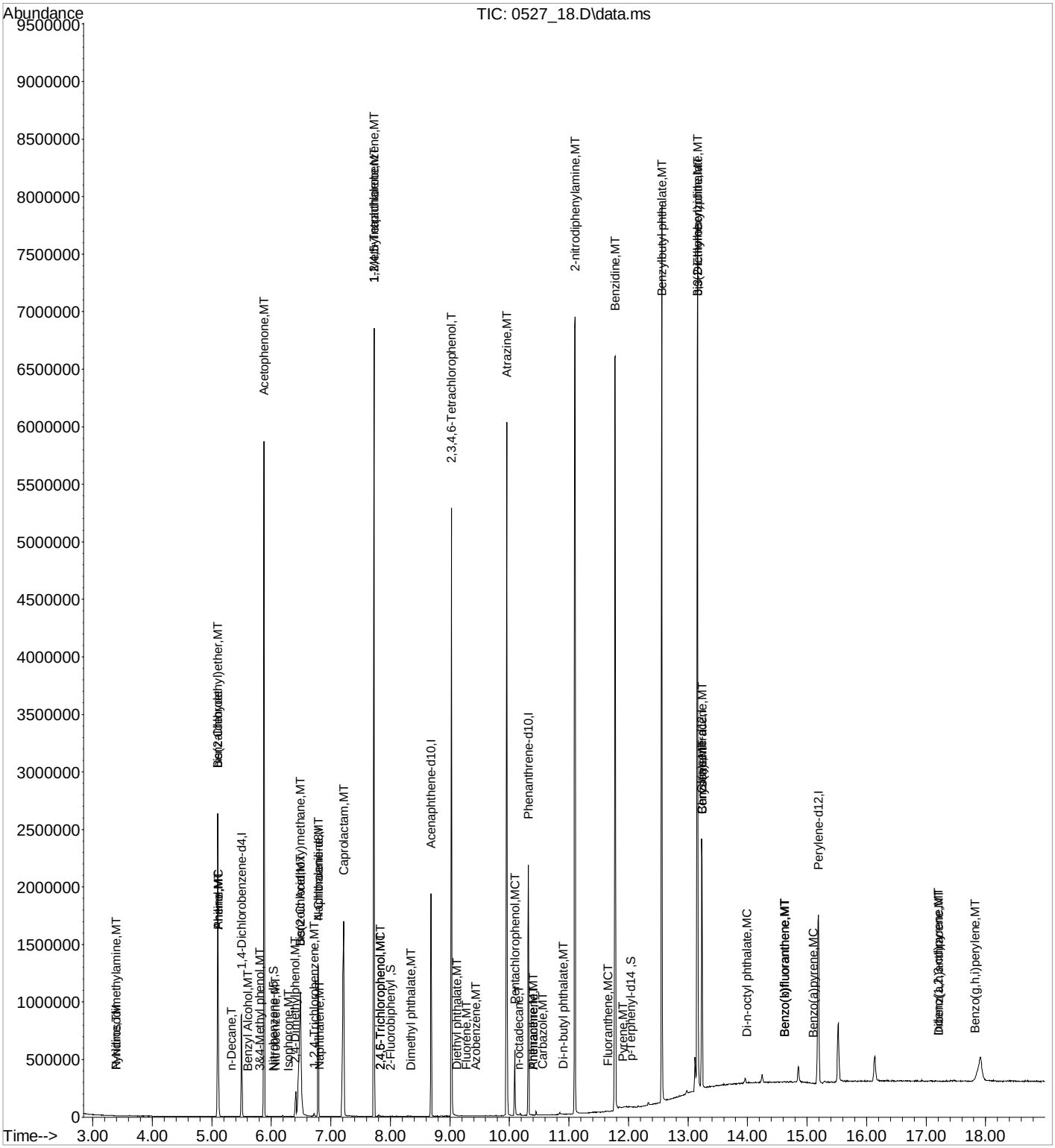
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.725	142	7611	148.0122331 ppb	#	41
39)	1,2,4,5-Tetrachloroben...	7.725	216	1139779	40341.8591377 ppb		99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.		
42)	2,4,6-Trichlorophenol	7.837	196	454	24.0670243 ppb	#	77
43)	2,4,5-Trichlorophenol	7.837	196	454	22.7216753 ppb	#	64
45)	Biphenyl	0.000		0	N.D.		
46)	2-Chloronaphthalene	0.000		0	N.D.		
47)	2-Nitroaniline	0.000		0	N.D.		
48)	Acenaphthylene	0.000		0	N.D.		
49)	Dimethyl phthalate	8.348	163	57	0.8724428 ppb	#	1
50)	2,6-Dinitrotoluene	0.000		0	N.D.		
51)	3-Nitroaniline	0.000		0	N.D.		
52)	Acenaphthene	0.000		0	N.D.		
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	0.000		0	N.D.		
55)	2,4-Dinitrotoluene	0.000		0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	9.025	232	633105	42081.0960380 ppb		95
57)	4-Nitrophenol	0.000		0	N.D.		
58)	Fluorene	9.278	166	67	0.9518419 ppb	#	18
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60)	Diethyl phthalate	9.119	149	65	0.9735502 ppb	#	62
61)	4-Nitroaniline	0.000		0	N.D.		
62)	Azobenzene	9.436	77	274	3.8597417 ppb	#	20
63)	Atrazine	9.954	200	760689	42590.7836592 ppb		98
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D.		
68)	4-Bromophenyl-phenylether	0.000		0	N.D.		
69)	Hexachlorobenzene	0.000		0	N.D.		
70)	n-octadecane	10.154	55	1519	139.1468561 ppb	#	47
71)	Pentachlorophenol	10.089	266	63410	4443.4238578 ppb		98
72)	Phenanthrene	10.401	178	160	1.4783451 ppb		70
73)	Anthracene	10.401	178	160	1.4795517 ppb		63
74)	Carbazole	10.560	167	262	2.5855278 ppb	#	62
75)	Di-n-butyl phthalate	10.901	149	743	6.0847564 ppb		78
76)	2-nitrodiphenylamine	11.101	167	1081896	45576.5820099 ppb		98
77)	Fluoranthene	11.654	202	324	2.6415682 ppb	#	59
79)	Benzidine	11.777	184	2824108	50346.6963472 ppb		99
80)	Pyrene	11.907	202	336	2.8069400 ppb	#	58
82)	Benzylbutyl phthalate	12.560	149	2133	38.0529214 ppb	#	1
83)	3,3-Dichlorobenzidine	13.160	252	1816912	40143.2534833 ppb		99
84)	Benzo(a)anthracene	13.236	228	2671	21.4284044 ppb	#	1
85)	Chrysene	13.236	228	2671	21.8654133 ppb		78
86)	bis(2-Ethylhexyl)phtha...	13.160	149	11660	137.4169250 ppb	#	22
87)	Di-n-octyl phthalate	13.989	149	415	2.8709497 ppb		73
89)	Benzo(b)fluoranthene	14.624	252	1449	11.3465121 ppb	#	62
90)	Benzo(k)fluoranthene	14.624	252	1054	8.3336039 ppb		72
91)	Benzo(a)pyrene	15.107	252	1706	13.7674132 ppb	#	40
92)	Indeno(1,2,3-cd)pyrene	17.201	276	59	0.4014587 ppb	#	52
93)	Dibenz(a,h)anthracene	17.212	278	347	2.7491046 ppb	#	1
94)	Benzo(g,h,i)perylene	17.818	276	59	0.4801820 ppb	#	31

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 18.D
Acq On : 28 May 2015 12:41 am
Operator : 377
Sample : STD TCL 40K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 28 16:38:46 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\052715\
Data File : 0527 18.D
Acq On    : 28 May 2015  12:41 am
Operator  : 377
Sample    : STD TCL 40K1 PPB 15D30944
Misc      : 8270 TCL CALIBRATION
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: May 28 16:23:30 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration
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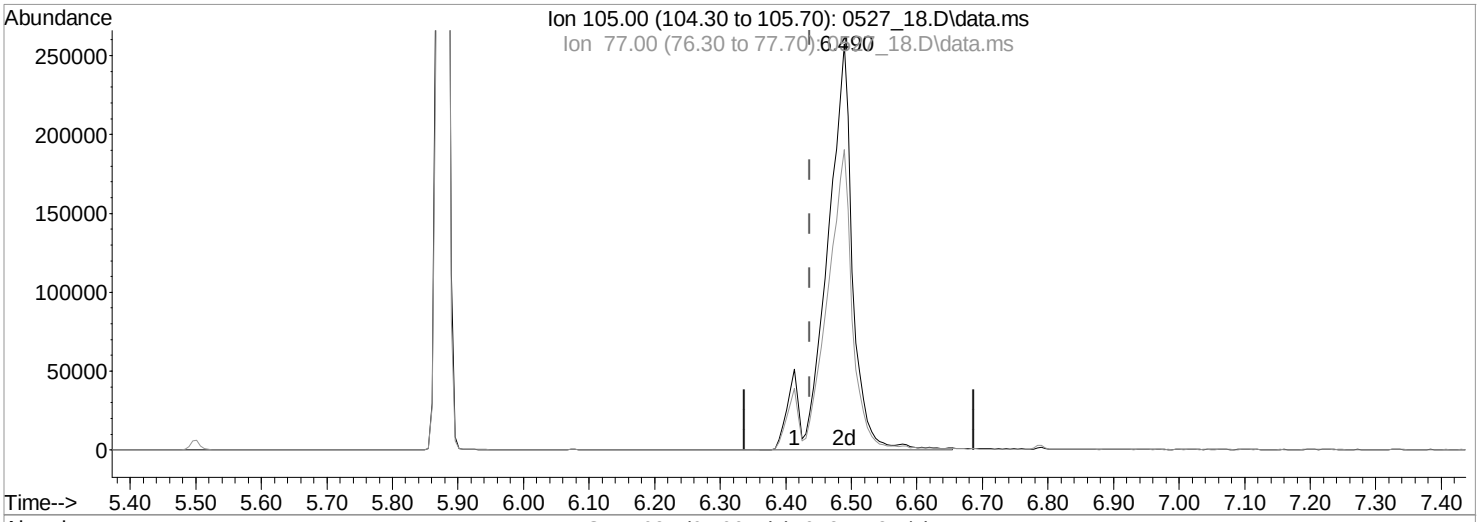
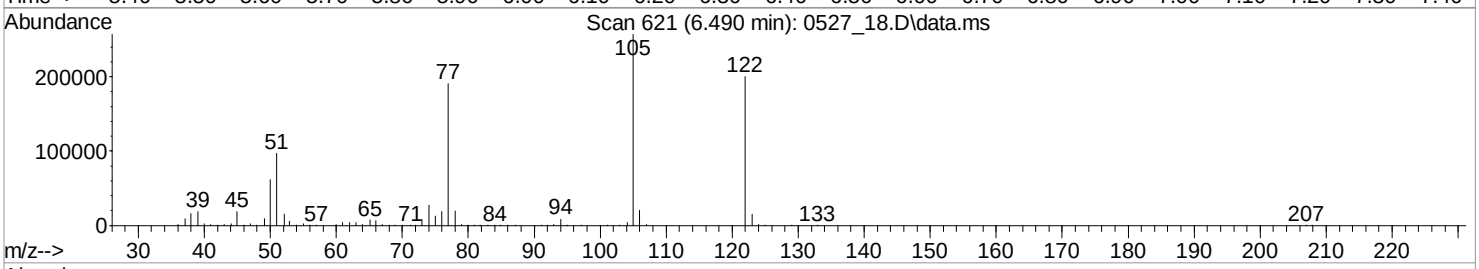
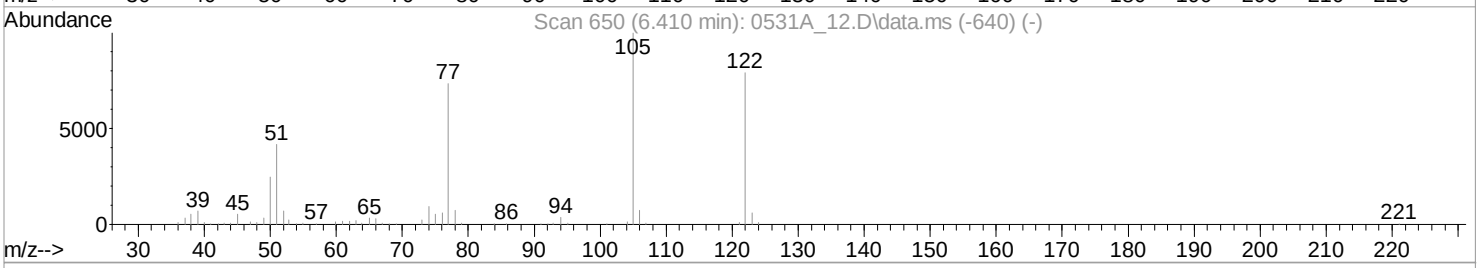






TIC: 0527_18.D\data.ms

(30) Benzoic Acid (MT)

6.490min (+0.053) 51591.8090131 ppb m

response 723026

Ion	Exp%	Act%
105.00	100	100
77.00	49.30	6.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 19.D
Acq On : 28 May 2015 1:04 am
Operator : 377
Sample : STD TCL 50K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 16:39:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.501	152	154082	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.790	136	583713	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.684	164	409698	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.319	188	774667	8000.0000000 ppb	0.00
78) Chrysene-d12	13.230	240	851032	8000.0000000 ppb	0.00
88) Perylene-d12	15.183	264	839104	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 87		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 67		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.043	82	61	2.2252024 ppb	0.00
Spiked Amount 10.000	Range 12 - 120		Recovery	= 22.25%	
44) 2-Fluorobiphenyl	8.001	172	144	2.2481585 ppb	0.06
Spiked Amount 10.000	Range 26 - 122		Recovery	= 22.48%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 148		Recovery	= 0.00%#	
81) p-Terphenyl-d14	12.042	244	170	1.8766753 ppb	-0.01
Spiked Amount 10.000	Range 34 - 149		Recovery	= 18.77%#	
Target Compounds					Qvalue
2) Pyridine	3.343	79	56	2.0594863 ppb #	1
3) N-Nitrosodimethylamine	3.396	42	349	24.9520486 ppb #	11
5) Aniline	5.107	66	792	58.7459188 ppb #	1
6) bis(2-Chloroethyl)ether	5.101	63	21256	1194.7051314 ppb #	8
8) Phenol	5.107	94	1020	36.3970665 ppb #	1
9) Benzaldehyde	5.101	105	636739	55790.8987638 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.372	41	3828	235.5381133 ppb #	53
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.607	79	308	14.8462866 ppb #	78
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.807	107	323	12.8923877 ppb #	6
21) Acetophenone	5.878	105	1804916	54111.9077753 ppb	99
24) Nitrobenzene	6.072	77	950	34.2411901 ppb #	60
25) Isophorone	6.290	82	315	6.3862998 ppb	58
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.413	107	330	12.5655958 ppb #	1
28) bis(2-Chlorethoxy)methane	6.495	93	4492	146.3549929 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.495	105	925523m	67136.3679273 ppb	
31) 1,2,4-Trichlorobenzene	6.719	180	4361	162.7374552 ppb	97
32) Naphthalene	6.813	128	227	2.9160486 ppb	70
33) 4-Chloroaniline	6.790	65	1614	157.4494838 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.225	113	433205	57506.0698766 ppb	99
36) 4-Chloro-3-methylphenol	7.342	107	68	2.8999857 ppb #	14
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 19.D
Acq On : 28 May 2015 1:04 am
Operator : 377
Sample : STD TCL 50K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 16:39:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

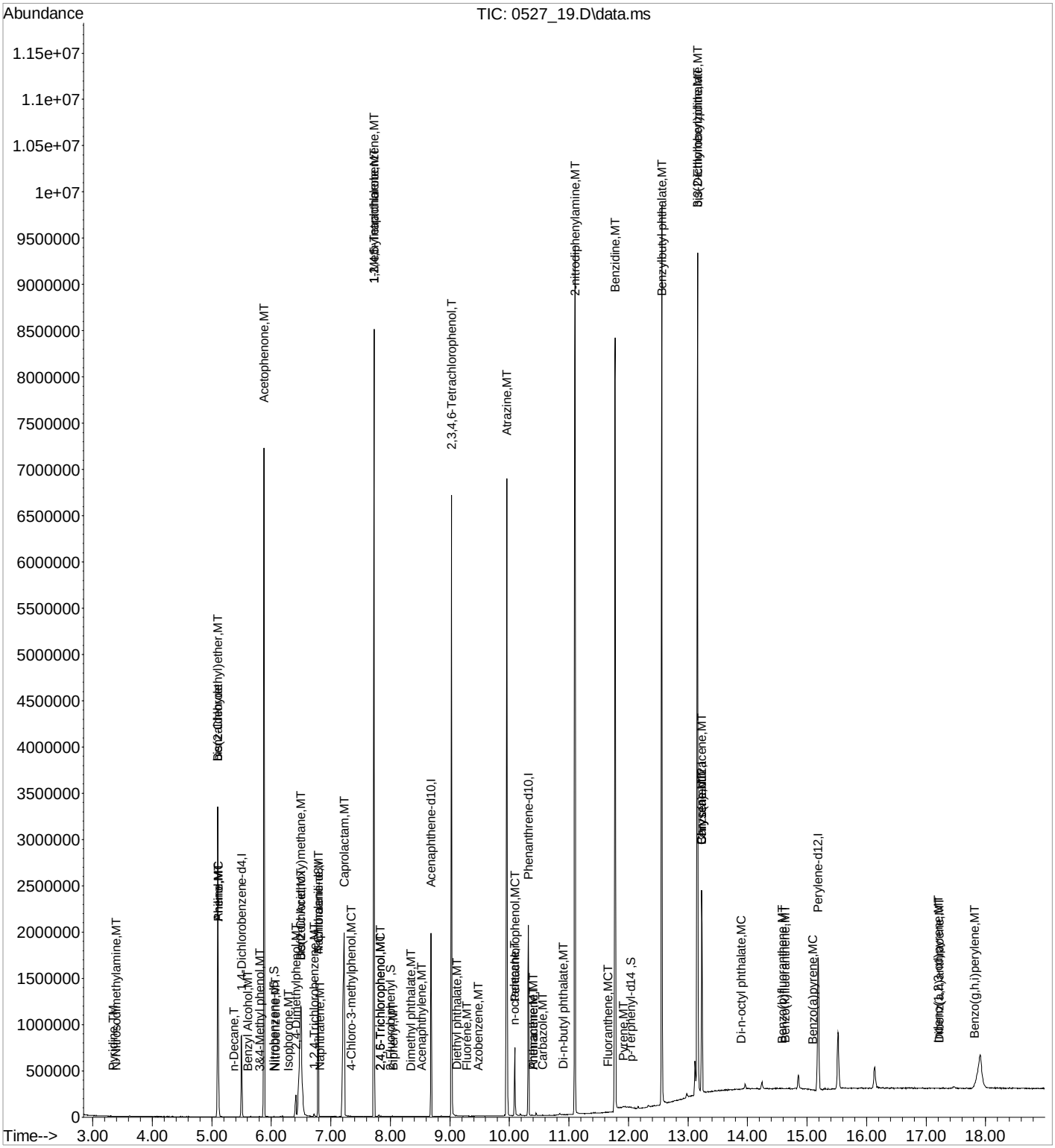
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.725	142	9592	189.6307855 ppb #	39
39) 1,2,4,5-Tetrachloroben...	7.725	216	1421278	51139.6882568 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	7.837	196	530	28.1909817 ppb #	86
43) 2,4,5-Trichlorophenol	7.837	196	530	26.6151030 ppb #	77
45) Biphenyl	8.048	154	57	0.8072990 ppb #	40
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	8.525	152	54	0.5938299 ppb #	62
49) Dimethyl phthalate	8.348	163	138	2.1193807 ppb #	64
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	9.025	232	801626	53462.6990778 ppb	97
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	9.283	166	69	0.9835737 ppb	83
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	9.113	149	186	2.7952826 ppb #	62
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	9.478	77	204	2.8834049 ppb #	70
63) Atrazine	9.960	200	949150	53322.5773954 ppb	98
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	10.083	55	2407	225.1889204 ppb #	36
71) Pentachlorophenol	10.089	266	81810	5854.9297172 ppb	98
72) Phenanthrene	10.395	178	213	2.0099755 ppb	70
73) Anthracene	10.395	178	213	2.0116159 ppb	65
74) Carbazole	10.560	167	285	2.8724209 ppb #	62
75) Di-n-butyl phthalate	10.901	149	722	6.0387477 ppb	78
76) 2-nitrodiphenylamine	11.101	167	1385962	59629.7329639 ppb	98
77) Fluoranthene	11.654	202	152	1.2656561 ppb #	59
79) Benzidine	11.777	184	3555935	63190.8554749 ppb	99
80) Pyrene	11.913	202	339	2.8229572 ppb #	42
82) Benzylbutyl phthalate	12.560	149	2024	35.9930293 ppb #	1
83) 3,3-Dichlorobenzidine	13.160	252	2204039	48540.9971306 ppb	99
84) Benzo(a)anthracene	13.230	228	2332	18.6489865 ppb #	1
85) Chrysene	13.230	228	2332	19.0293123 ppb #	64
86) bis(2-Ethylhexyl)phtha...	13.160	149	11886	139.6330247 ppb #	6
87) Di-n-octyl phthalate	13.895	149	743	5.1236215 ppb	73
89) Benzo(b)fluoranthene	14.583	252	1715	13.6277745 ppb #	1
90) Benzo(k)fluoranthene	14.630	252	1403	11.2568463 ppb	82
91) Benzo(a)pyrene	15.095	252	1126	9.2210108 ppb #	57
92) Indeno(1,2,3-cd)pyrene	17.201	276	74	0.5109606 ppb #	52
93) Dibenz(a,h)anthracene	17.218	278	438	3.5212975 ppb #	52
94) Benzo(g,h,i)perylene	17.812	276	128	1.0571355 ppb #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 19.D
Acq On : 28 May 2015 1:04 am
Operator : 377
Sample : STD TCL 50K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

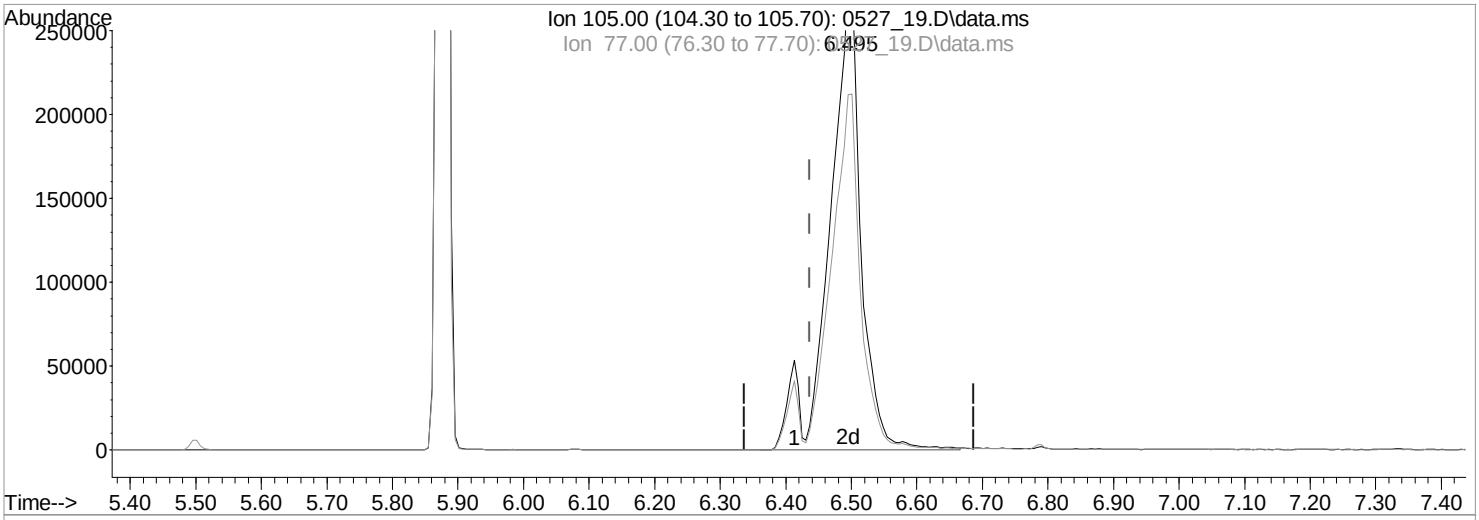
Quant Time: May 28 16:39:04 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration

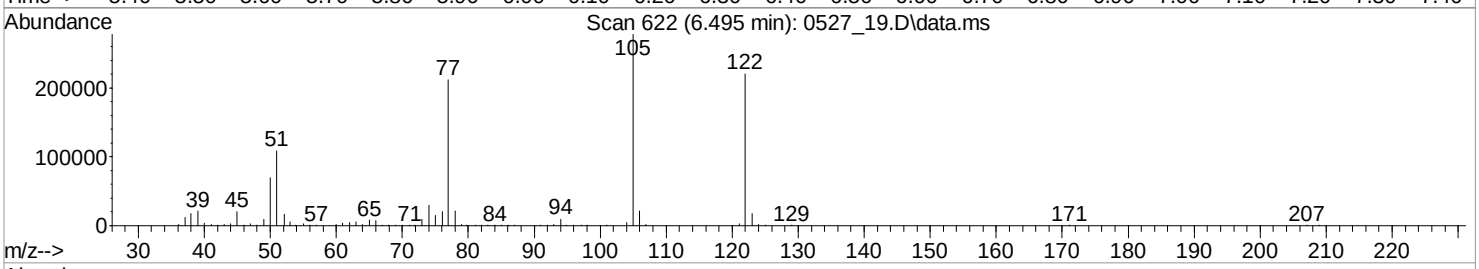


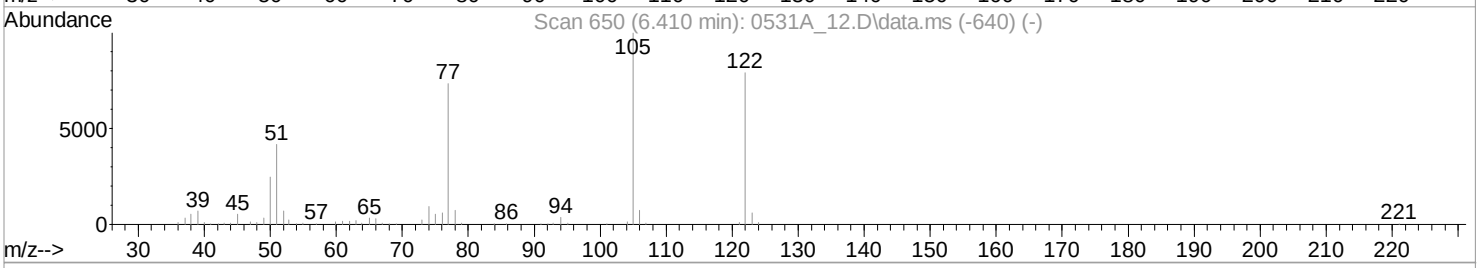
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\052715\
Data File : 0527 19.D
Acq On : 28 May 2015 1:04 am
Operator : 377
Sample : STD TCL 50K1 PPB 15D30944
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 16:23:34 2015
Quant Method : C:\msdchem\1\methods\S819E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 16:22:04 2015
Response via : Initial Calibration







TIC: 0527_19.D\data.ms

(30) Benzoic Acid (MT)

6.495min (+0.059) 67136.3679273 ppb m

response 925523

Ion	Exp%	Act%
105.00	100	100
77.00	49.30	5.72#
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatiles by Method 8270 C-SIM

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

Quality Control Summary
SDG: L767115

Semi-Volatiles by Method 8270 C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Hollman AFB
Project No: 60425210 23446543.00

Login No: L767115

Lab SampleID.	Client ID
L767115-01	H-SS059-FIELDBLANK-FT01
L767115-02	H-SS059-MW52-DT01
L767115-03	H-SS059-MW52-DD01
L767115-04	H-SS059-MW52-ND01
L767115-05	H-SS059-MW52-NT01
L767115-06	H-SS059-MW51-ND01
L767115-07	H-SS059-MW51-NT01
L767115-08	H-SS059-MW50-ND01
L767115-09	H-SS059-MW50-NT01
L767115-10	H-TU506-MW05-NT02
L767115-11	H-TUQC-TRIPBLANK-TT02

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: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Workgroup: **WG792025**
Description: **PAHs by SIM by Method 8270 C-SIM (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L767115-02 1.11x	05/21/2015	05/28/2015	05/29/2015
L767115-05 1.11x	05/21/2015	05/28/2015	05/29/2015
L767115-07 1.11x	05/21/2015	05/28/2015	05/29/2015
L767115-09 1.11x	05/21/2015	05/28/2015	05/29/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS13	LCS WG792025	LCS WG792025	0528_04.D	5/29/2015	12:37 AM
BNAMS13	LCSD WG792025	LCSD WG792025	0528_05.D	5/29/2015	12:59 AM
BNAMS13	Blank WG792025	Blank WG792025	0528_06.D	5/29/2015	1:20 AM
BNAMS13	H-SS059-MW52-DT01	L767115-02	0528_10.D	5/29/2015	2:46 AM
BNAMS13	H-SS059-MW52-NT01	L767115-05	0528_11.D	5/29/2015	3:08 AM
BNAMS13	H-SS059-MW51-NT01	L767115-07	0528_12.D	5/29/2015	3:29 AM
BNAMS13	MS WG792025	MS WG792025	0528_13.D	5/29/2015	3:51 AM
BNAMS13	MSD WG792025	MSD WG792025	0528_14.D	5/29/2015	4:12 AM
BNAMS13	H-SS059-MW50-NT01	L767115-09	0528_15.D	5/29/2015	4:34 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1-Methylnaphthalene	90-12-0	< 0.250	< 0.0185	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
Acenaphthene	83-32-9	< 0.0500	< 0.0100	
Acenaphthylene	208-96-8	< 0.0500	< 0.00700	
Anthracene	120-12-7	< 0.0500	< 0.00800	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.00830	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	0.00318	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.00227	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Naphthalene	91-20-3	< 0.250	< 0.0120	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Pyrene	129-00-0	< 0.0500	< 0.0155	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1-Methylnaphthalene	1	2	1.7115	85.6	48.8 - 109	
2-Chloronaphthalene	1	2	1.6762	83.8	50.3 - 105	
2-Methylnaphthalene	1	2	1.7619	88.1	46.7 - 107	
Acenaphthene	1	2	1.7430	87.1	50.6 - 107	
Acenaphthylene	1	2	1.7129	85.6	50.1 - 108	
Anthracene	1	2	1.8448	92.2	51.8 - 119	
Benzo(a)anthracene	1	2	1.8801	94	47.4 - 121	
Benzo(a)pyrene	1	2	1.8536	92.7	49.8 - 119	
Benzo(b)fluoranthene	1	2	1.7740	88.7	47.4 - 119	
Benzo(g,h,i)perylene	1	2	1.8138	90.7	37.2 - 129	
Benzo(k)fluoranthene	1	2	2.0352	102	47.5 - 122	
Chrysene	1	2	1.9350	96.8	48.6 - 126	
Dibenz(a,h)anthracene	1	2	1.9463	97.3	34.1 - 130	
Fluoranthene	1	2	1.8902	94.5	50.9 - 123	
Fluorene	1	2	1.6687	83.4	50.2 - 110	
Indeno(1,2,3-cd)pyrene	1	2	1.9043	95.2	45.3 - 125	
Naphthalene	1	2	1.7363	86.8	45.7 - 101	
Phenanthrene	1	2	1.6903	84.5	47.7 - 113	
Pyrene	1	2	1.9327	96.6	44.5 - 125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1-Methylnaphthalene	1	2	1.7055	85.3	48.8 - 109	
2-Chloronaphthalene	1	2	1.6567	82.8	50.3 - 105	
2-Methylnaphthalene	1	2	1.7224	86.1	46.7 - 107	
Acenaphthene	1	2	1.7343	86.7	50.6 - 107	
Acenaphthylene	1	2	1.6989	84.9	50.1 - 108	
Anthracene	1	2	1.7713	88.6	51.8 - 119	
Benzo(a)anthracene	1	2	1.7689	88.4	47.4 - 121	
Benzo(a)pyrene	1	2	1.8156	90.8	49.8 - 119	
Benzo(b)fluoranthene	1	2	1.7786	88.9	47.4 - 119	
Benzo(g,h,i)perylene	1	2	1.8408	92	37.2 - 129	
Benzo(k)fluoranthene	1	2	1.9588	97.9	47.5 - 122	
Chrysene	1	2	1.8735	93.7	48.6 - 126	
Dibenz(a,h)anthracene	1	2	1.9055	95.3	34.1 - 130	
Fluoranthene	1	2	1.7996	90	50.9 - 123	
Fluorene	1	2	1.6632	83.2	50.2 - 110	
Indeno(1,2,3-cd)pyrene	1	2	1.8803	94	45.3 - 125	
Naphthalene	1	2	1.7081	85.4	45.7 - 101	
Phenanthrene	1	2	1.6527	82.6	47.7 - 113	
Pyrene	1	2	1.8228	91.1	44.5 - 125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1-Methylnaphthalene	1	2	1.7115	85.6	1.7055	85.3	48.8 - 109		0.35	20	
2-Chloronaphthalene	1	2	1.6762	83.8	1.6567	82.8	50.3 - 105		1.17	20	
2-Methylnaphthalene	1	2	1.7619	88.1	1.7224	86.1	46.7 - 107		2.26	20	
Acenaphthene	1	2	1.7430	87.1	1.7343	86.7	50.6 - 107		0.5	20	
Acenaphthylene	1	2	1.7129	85.6	1.6989	84.9	50.1 - 108		0.82	20	
Anthracene	1	2	1.8448	92.2	1.7713	88.6	51.8 - 119		4.07	20	
Benzo(a)anthracene	1	2	1.8801	94	1.7689	88.4	47.4 - 121		6.09	20	
Benzo(a)pyrene	1	2	1.8536	92.7	1.8156	90.8	49.8 - 119		2.07	20	
Benzo(b)fluoranthene	1	2	1.7740	88.7	1.7786	88.9	47.4 - 119		0.26	20.2	
Benzo(g,h,i)perylene	1	2	1.8138	90.7	1.8408	92	37.2 - 129		1.48	21.3	
Benzo(k)fluoranthene	1	2	2.0352	102	1.9588	97.9	47.5 - 122		3.83	20	
Chrysene	1	2	1.9350	96.8	1.8735	93.7	48.6 - 126		3.23	20	
Dibenz(a,h)anthracene	1	2	1.9463	97.3	1.9055	95.3	34.1 - 130		2.11	21	
Fluoranthene	1	2	1.8902	94.5	1.7996	90	50.9 - 123		4.91	20	
Fluorene	1	2	1.6687	83.4	1.6632	83.2	50.2 - 110		0.33	20	
Indeno(1,2,3-cd)pyrene	1	2	1.9043	95.2	1.8803	94	45.3 - 125		1.27	20	
Naphthalene	1	2	1.7363	86.8	1.7081	85.4	45.7 - 101		1.64	20	
Phenanthrene	1	2	1.6903	84.5	1.6527	82.6	47.7 - 113		2.25	20	
Pyrene	1	2	1.9327	96.6	1.8228	91.1	44.5 - 125		5.86	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Matrix Spike / Matrix Spike Duplicate

L767115-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1-Methylnaphthalene	1.11	1.801802	<0.0205	1.3502	67.3	1.2370	61.7	48.8 - 109		8.75	20	
2-Chloronaphthalene	1.11	1.801802	<0.3663	1.3037	65.1	1.1861	59.3	50.3 - 105		9.44	20	
2-Methylnaphthalene	1.11	1.801802	<0.0172	1.3706	68.4	1.2524	62.5	46.7 - 107		9.01	20	
Acenaphthene	1.11	1.801802	<0.0111	1.3761	68.7	1.2440	62.1	50.6 - 107		10.1	20	
Acenaphthylene	1.11	1.801802	<0.0078	1.3580	67.9	1.2348	61.7	50.1 - 108		9.51	20	
Anthracene	1.11	1.801802	<0.0089	1.4462	72.2	1.3108	65.5	51.8 - 119		9.82	20	
Benzo(a)anthracene	1.11	1.801802	<0.0092	0.5496	27.1	0.5043	24.9	47.4 - 121	J6	8.6	20	
Benzo(a)pyrene	1.11	1.801802	<0.0175	0.2626	13.1	0.2600	12.9	49.8 - 119	J6	1.02	20	
Benzo(b)fluoranthene	1.11	1.801802	<0.0024	0.2377	11.8	0.2047	10.1	47.4 - 119	J6	14.9	20.2	
Benzo(g,h,i)perylene	1.11	1.801802	<0.0025	0.2027	10.1	0.2004	9.99	37.2 - 129	J6	1.15	21.3	
Benzo(k)fluoranthene	1.11	1.801802	<0.0283	0.3141	15.6	0.3250	16.2	47.5 - 122	J6	3.42	20	
Chrysene	1.11	1.801802	<0.0160	0.6176	30.8	0.5852	29.2	48.6 - 126	J6	5.39	20	
Dibenz(a,h)anthracene	1.11	1.801802	<0.0050	0.2284	11.4	0.2298	11.5	34.1 - 130	J6	0.62	21	
Fluoranthene	1.11	1.801802	<0.0183	1.3476	67.2	1.2502	62.4	50.9 - 123		7.5	20	
Fluorene	1.11	1.801802	<0.0100	1.3116	65.5	1.1826	59.1	50.2 - 110		10.3	20	
Indeno(1,2,3-cd)pyrene	1.11	1.801802	<0.0082	0.2181	10.9	0.2227	11.1	45.3 - 125	J6	2.1	20	
Naphthalene	1.11	1.801802	0.0163	1.3605	67.2	1.2508	61.7	45.7 - 101		8.4	20	
Phenanthrene	1.11	1.801802	<0.0204	1.2624	62.8	1.1949	59.4	47.7 - 113		5.49	20	
Pyrene	1.11	1.801802	<0.0172	1.4108	70.4	1.3020	64.9	44.5 - 125		8.02	20	

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Internal Standard Response and Retention Time Summary

File ID: 0528_03
Analyzed: 05/28/15 235000

	NAP		ACE		PHEN		CHR	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	24561	5.36	15009	7.29	26295	8.83	31038	11.52
Upper Limit	49100	5.86	30000	7.79	52600	9.33	62100	12.02
Lower Limit	12300	4.86	7500	6.79	13100	8.33	15500	11.02
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L767115-02 1.11X	26302	5.36	15921	7.29	27340	8.82	25287	11.52
L767115-05 1.11X	24586	5.36	16511	7.29	27684	8.83	25774	11.52
L767115-07 1.11X	25196	5.36	15310	7.29	24239	8.83	24072	11.52
L767115-09 1.11X	25014	5.36	15291	7.29	24675	8.83	25119	11.52
MSD WG792025 1.11X	24977	5.36	15143	7.29	24415	8.83	24254	11.52
MS WG792025 1.11X	25300	5.36	15287	7.29	25078	8.83	24761	11.52
LCSD WG792025	26260	5.36	15774	7.29	26249	8.83	26958	11.52
LCS WG792025	25461	5.34	15444	7.29	26307	8.83	26699	11.53
BLANK WG792025	26078	5.36	15729	7.29	24321	8.83	24879	11.52

Legend:

NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Internal Standard Response and Retention Time Summary

File ID: 0528_03
Analyzed: 05/28/15 235000

	NAP		PER	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	24561	5.36	30872	13.08
Upper Limit	49100	5.86	61700	13.58
Lower Limit	12300	4.86	15400	12.58
Sample ID	**Response**	**RT**	**Response**	**RT**
L767115-02 1.11X	26302	5.36	24141	13.08
L767115-05 1.11X	24586	5.36	24904	13.08
L767115-07 1.11X	25196	5.36	23449	13.08
L767115-09 1.11X	25014	5.36	24418	13.08
MSD WG792025 1.11X	24977	5.36	23632	13.08
MS WG792025 1.11X	25300	5.36	24193	13.08
LCSD WG792025	26260	5.36	26796	13.08
LCS WG792025	25461	5.34	27418	13.10
BLANK WG792025	26078	5.36	23806	13.09

Legend:
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	FBP ppm	FBP % Rec		NBZ ppm	NBZ % Rec	TPH ppm	TPH % Rec	
L767115-02 1.11x	BNAMS13	0528_10	0.000655	29.5	J2	0.000949	42.8	0.000664	29.9	J2
L767115-05 1.11x	BNAMS13	0528_11	0.000619	27.8	J2	0.00104	46.7	0.000695	31.3	J2
L767115-07 1.11x	BNAMS13	0528_12	0.000947	42.7		0.00106	47.8	0.000996	44.9	
L767115-09 1.11x	BNAMS13	0528_15	0.000998	45.0		0.00124	56.0	0.000990	44.6	
LCS WG792025	BNAMS13	0528_04	0.00130	64.9		0.00148	74.1	0.00142	70.8	
LCSD WG792025	BNAMS13	0528_05	0.00129	64.4		0.00153	76.3	0.00131	65.4	
BLANK WG792025	BNAMS13	0528_06	0.00119	59.4		0.00143	71.5	0.00135	67.6	
MS WG792025 1.11x	BNAMS13	0528_13	0.00104	51.8		0.00134	66.8	0.00101	50.4	
MSD WG792025	BNAMS13	0528_14	0.000927	46.3		0.00122	61.2	0.000950	47.5	

FBP --2-FLUOROBIPHENYL	True Value: 0.002 ppm	Limits: 38.8 - 115
NBZ --NITROBENZENE-D5	True Value: 0.002 ppm	Limits: 18 - 137
TPH --P-TERPHENYL-D14	True Value: 0.002 ppm	Limits: 33.90 - 128

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Hollman AFB	EPA ID:	TN00003
Collection Date:	5/21/2015	**Analytic Batch:**	**WG792025**
Analysis Date:	5/29/2015	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	5/28/2015
Sample Numbers:	L767115-02, -05, -07, -09		

Instrument Performance Summary

FileID:0528_02.D Date:5/28/2015 Time: 11:28 PM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	51.1
68	Less than 2% of mass 69	1.8
70	Less than 2% of mass 69	0.5
127	10 - 80% of mass 442	45.2
197	Less than 2% of mass 198	0.9
198	50 - 100% of mass 442	77.5
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 442	22.2
365	1 - 100% of mass 442	4.9
441	Present, but less than mass 443	82.2
442	50 - 100% of mass 442	100.0
443	15 - 24% 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 WG792025	LCS WG792025	0528_04.D	5/29/2015	12:37 AM
LCSD WG792025	LCSD WG792025	0528_05.D	5/29/2015	12:59 AM
Blank WG792025	Blank WG792025	0528_06.D	5/29/2015	1:20 AM
H-SS059-MW52-DT01	L767115-02	0528_10.D	5/29/2015	2:46 AM
H-SS059-MW52-NT01	L767115-05	0528_11.D	5/29/2015	3:08 AM
H-SS059-MW51-NT01	L767115-07	0528_12.D	5/29/2015	3:29 AM
MS WG792025	MS WG792025	0528_13.D	5/29/2015	3:51 AM
MSD WG792025	MSD WG792025	0528_14.D	5/29/2015	4:12 AM
H-SS059-MW50-NT01	L767115-09	0528_15.D	5/29/2015	4:34 AM

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project: Hollman AFB
Instrument ID: BNAMS13
Method Name : SS13E21O.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1000	Level 2000	Average RRF	%RSD
Nitrobenzene-d5	0.328	0.294	0.295	0.296	0.307	0.307	0.312	0.344	0.315	0.310986	5.36
Naphthalene	1.048	1.073	1.069	1.035	1.050	1.037	1.031	1.013	0.990	1.038445	2.51
2-Methylnaphthalene	0.744	0.692	0.709	0.693	0.712	0.708	0.710	0.712	0.707	0.709644	2.11
1-Methylnaphthalene	0.721	0.662	0.667	0.654	0.669	0.659	0.655	0.651	0.656	0.666034	3.22
2-Fluorobiphenyl	1.388	1.431	1.446	1.409	1.420	1.416	1.415	1.407	1.433	1.418276	1.20
2-Chloronaphthalene	1.188	1.252	1.276	1.249	1.276	1.266	1.268	1.277	1.296	1.260880	2.42
Acenaphthylene	1.739	1.754	1.790	1.751	1.812	1.833	1.881	1.943	1.981	1.831716	4.74
Acenaphthene	1.283	1.275	1.301	1.261	1.282	1.271	1.283	1.290	1.315	1.284460	1.25
Dibenzofuran	1.604	1.638	1.660	1.625	1.656	1.645	1.653	1.670	1.697	1.649746	1.61
Fluorene	1.516	1.419	1.407	1.343	1.362	1.354	1.371	1.437	1.502	1.412396	4.48
Hexachlorobenzene	0.267	0.263	0.259	0.253	0.258	0.253	0.251	0.254	0.265	0.258050	2.31
Pentachlorophenol	0.095	0.030	0.026	0.026	0.029	0.038	0.057	0.101	0.123	0.058392	65.22
Phenanthrene	1.311	1.195	1.193	1.165	1.192	1.180	1.180	1.173	1.160	1.194577	3.81
Anthracene	1.088	1.095	1.107	1.115	1.166	1.178	1.181	1.189	1.192	1.145711	3.78
Fluoranthene	1.254	1.263	1.278	1.255	1.303	1.310	1.330	1.318	1.312	1.291395	2.27
Pyrene	1.199	1.185	1.191	1.150	1.168	1.150	1.113	1.055	0.932	1.126901	7.61
p-Terphenyl-d14	0.961	0.966	0.966	0.939	0.956	0.940	0.923	0.907	0.825	0.931556	4.79
Benzo(a)anthracene	1.240	1.177	1.169	1.142	1.179	1.174	1.178	1.144	0.999	1.155862	5.65
Chrysene	1.143	1.164	1.172	1.121	1.152	1.124	1.107	1.003	0.890	1.097119	8.42
Benzo(b)fluoranthene	1.087	1.103	1.153	1.119	1.211	1.211	1.209	1.061	1.071	1.136174	5.42
Benzo(k)fluoranthene	1.086	1.131	1.134	1.103	1.082	1.061	1.058	1.037	0.944	1.070611	5.37
Benzo(a)pyrene	0.951	0.951	0.974	0.953	0.988	0.987	1.011	0.953	0.889	0.961814	3.60
Indeno(1,2,3-cd)pyrene	1.190	1.212	1.251	1.233	1.284	1.287	1.305	1.015	0.941	1.190742	10.70
Dibenz(a,h)anthracene	0.998	0.995	1.034	1.017	1.057	1.073	1.095	0.891	0.834	0.999241	8.55
Benzo(g,h,i)perylene	1.064	1.061	1.085	1.060	1.098	1.087	1.090	0.785	0.724	1.006164	14.31

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Quality Control Summary
SDG: L767115
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project No: 60425210 23446543.00
Project: Hollman AFB EPA ID: TN00003
Collection Date: 5/21/2015
Instrument ID: BNAMS13

Method Name : SS13E21O.M Date : 5/28/2015
FileName : 0528_03.D Time : 11:50 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0384	1.2073	16.3
2-Methylnaphthalene	0.7096	0.8189	15.4
1-Methylnaphthalene	0.6660	0.7536	13.1
Acenaphthylene	1.8317	1.9869	8.47
Acenaphthene	1.2845	1.4123	9.95
Fluorene	1.4124	1.4711	4.16
Phenanthrene	1.1946	1.1708	1.99
Anthracene	1.1457	1.2347	7.77
Fluoranthene	1.2914	1.3738	6.38
Pyrene	1.1269	1.0598	5.95
Benzo(a)anthracene	1.1559	1.1006	4.78
Chrysene	1.0971	1.0254	6.54
Benzo(b)fluoranthene	1.1362	1.0035	11.7
Benzo(k)fluoranthene	1.0706	1.0695	0.1
Benzo(a)pyrene	0.9618	0.8983	6.6
Indeno(1,2,3-cd)pyrene	1.1907	1.0980	7.79
Dibenz(a,h)anthracene	0.9992	0.9332	6.61
Benzo(g,h,i)perylene	1.0062	0.9114	9.41

*** - calibrated by linear regression*

Raw Data

BNA RV Extractions Benchsheet

Batch #: WG791571

Analyst: DMG614 **Prep Start Date/Time:** 05/27/15 10:17 **Prep End Date/Time:** 05/27/15 15:27 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15C28209 Exp. Date:09/28/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **H2SO4:** 15E20986 Exp. Date:10/10/15 **Surrogate:** 15E22118 Amt. Used: 100 µL Exp. Date:07/08/15

LCS/MS Spike: 15E21085 Amt. Used: 250 µL Exp. Date:11/05/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Extract Color	Final Sample Vol.	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	Colorless	0.5	
LCS		100	<2	>11	36	No Emulsion	Yellow	0.5	
LCSD		100	<2	>11	36	No Emulsion	Yellow	0.5	
1. L767080-01		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD ADAPT - refer to
2. L767084-01		100	<2	>11	36	No Emulsion	Pink	0.5	SV608-no PCBS - refer to L767085 SV608-no PCBS - refer to L767085624 rr
3. L767115-02		80	<2	>11	36	No Emulsion	Pink	0.5	EDD/QC4/DOD
4. L767115-05		100	<2	>11	36	No Emulsion	Pink	0.5	EDD/QC4/DOD
5. L767115-07		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD - MS/MSD sample
6. L767115-09		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD
7. L767137-01		100	<2	>11	36	No Emulsion	Colorless	0.5	

Comments:
DOD SYRINGE ESC30645

Reviewed By:ADF377 on 05/27/15 16:04:32

BNA RV Extractions Benchsheet

Batch #: WG791778

Analyst: NCC250 **Prep Start Date/Time:** 05/27/15 20:41 **Prep End Date/Time:** 05/28/15 04:12 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15D23548 Exp. Date:10/23/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **H2SO4:** 15E20986 Exp. Date:10/10/15 **Surrogate:** 15E22118 Amt. Used: 100 µL Exp. Date:07/08/15

LCS/MS Spike: 15E21085 Amt. Used: 250 µL Exp. Date:11/05/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Extract Color	Final Sample Vol.	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	Colorless	0.5	
LCS		100	<2	>11	36	No Emulsion	Yellow	0.5	
LCSD		100	<2	>11	36	No Emulsion	Yellow	0.5	
MS(L767115-07)		100	<2	>11	36	No Emulsion	Yellow	0.5	
MSD(L767115-07)		100	<2	>11	36	No Emulsion	Yellow	0.5	
1. L767115-07		100	<2	>11	36	No Emulsion	Colorless	0.5	EDD/QC4/DOD - MS/MSD sample EDD/QC4/DOD - MS/MSD sampleclient req MS/D" ||
2. L767246-01		100	<2	>11	36	No Emulsion	Colorless	0.5	
3. L767260-01		100	<2	>11	36	No Emulsion	Yellow	0.5	
4. L767467-01		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-01 MS 5/27/15
5. L767467-02		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-02 MS 5/27/15
6. L767467-03		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-03 MS 5/27/15
7. L767467-04		100	<2	>11	36	No Emulsion	Colorless	0.5	Relogged from L766430-04 MS 5/27/15

Comments:
'DOD SYRINGE ESC30593'

Reviewed By: on

SIM RV Extractions Benchsheet

Batch #: WG792025

Analyst: DMG614 **Prep Start Date/Time:** 05/28/15 14:25 **Prep End Date/Time:** 05/28/15 18:38 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15D23548 Exp. Date:10/23/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **MeCl2:** 15E13643 Exp. Date:11/13/15 **Surrogate:** 15D29868 Amt. Used: 200 µL Exp. Date:10/22/15

LCS/MS Spike: 15D14085 Amt. Used: 200 µL Exp. Date:09/15/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Final Volume (mL)	Extract Color	Sample Comments
BLANK		100	>11	18	No Emulsion	5	Colorless	
LCS		100	>11	18	No Emulsion	5	Colorless	
LCSD		100	>11	18	No Emulsion	5	Colorless	
MS(L767115-07)		90	>11	18	Heavy Emulsion	5	Colorless	10@@@% sediment, no rinse
MSD(L767115-07)		90	>11	18	Heavy Emulsion	5	Colorless	10@@@% sediment, no rinse
1. L767115-02		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD EDD/QC4/DODHits in WG Blank, K 10@@@% sediment, no rinse
2. L767115-05		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD Hits in WG Blank10@@@% sediment, no rinse
3. L767115-07		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD - MS/MSD sample Hits in WG Blank10@@@% sediment, no rinse
4. L767115-09		90	>11	18	Heavy Emulsion	5	Colorless	EDD/QC4/DOD EDD/QC4/DODHits in WG Blank10@@@% sediment, no rinse
5. L767150-01		80	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank20@@@% sediment, no rinse
6. L767150-02		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse
7. L767150-03		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse
8. L767150-04		90	>11	18	Med. Emulsion	5	Colorless	Hits in WG Blank10@@@% sediment, no rinse

Comments:

SIM RVSYRINGE ESC30133DG614 changed ms/d volumes to reflect sediment 5/29/15.

Reviewed By:CBB298 on 05/29/15 11:15:11

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK

Released By : Brett Basham
Date Released : 5/29/2015 11:20:08 AM

Run ID : 052815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0528_01	INSTBLK	SS13E21O						1	1	05/28/15 2307	"instrument blank"
2	0528_02	TUNE SVMS 2000 PPB 15E15158	TUNE525						1	1	05/28/15 2328	"DFTPP TUNE"
3	0528_02T	TUNE SVMS 2000 PPB 15E15158	TUNE525							1	05/28/15 2328	
4	0528_03	ICV SIMLVI 40 PPB 15E19926	SS13E21O						1	1	05/28/15 2350	"sim calibration"
5	0528_04	LCS	SS13E21O	WG792025	8270PAHSIM	GW			1	0.05	05/29/15 0037	"WATER 15D29868/15D14085"
6	0528_05	LCSD	SS13E21O	WG792025	8270PAHSIM	GW			1	0.05	05/29/15 0059	"WATER 15D29868/15D14085"
7	0528_06	BLANK	SS13E21O	WG792025	8270PAHSIM	GW			1	0.05	05/29/15 0120	"WATER 15D29868/15D14085"
8	0528_07	LCS	SS13E21O	WG791845	8270PAHSIM	GW			1	0.05	05/29/15 0142	"WATER 15D29868/15D14085"
9	0528_08	LCSD	SS13E21O	WG791845	8270PAHSIM	GW			1	0.05	05/29/15 0203	"WATER 15D29868/15D14085"
10	0528_09	BLANK	SS13E21O	WG791845	8270PAHSIM	GW			1	0.05	05/29/15 0225	"WATER 15D29868/15D14085"
11	0528_10	L767115-02	SS13E21O	WG792025	8270PAHSIM	GW	URSTAZ	AZ	1.11	0.055	05/29/15 0246	"WATER 15D29868/15D14085"
12	0528_11	L767115-05	SS13E21O	WG792025	8270PAHSIM	GW	URSTAZ	AZ	1.11	0.055	05/29/15 0308	"WATER 15D29868/15D14085"
13	0528_12	L767115-07	SS13E21O	WG792025	8270PAHSIM	GW	URSTAZ	AZ	1.11	0.055	05/29/15 0329	"WATER 15D29868/15D14085"
14	0528_13	MS	SS13E21O	WG792025	8270PAHSIM	GW			1.11	0.055	05/29/15 0351	"WATER 15D29868/15D14085"
15	0528_14	MSD	SS13E21O	WG792025	8270PAHSIM	GW			1.11	0.055	05/29/15 0412	"WATER 15D29868/15D14085"
16	0528_15	L767115-09	SS13E21O	WG792025	8270PAHSIM	GW	URSTAZ	AZ	1.11	0.055	05/29/15 0434	"WATER 15D29868/15D14085"
17	0528_16	L767150-01	SS13E21O	WG792025	8270PAHSIM	GW	BRORESAOH	OH	1.25	0.062	05/29/15 0456	"WATER 15D29868/15D14085"
18	0528_17	L767150-02	SS13E21O	WG792025	8270PAHSIM	GW	BRORESAOH	OH	1.11	0.055	05/29/15 0517	"WATER 15D29868/15D14085"
19	0528_18	L767150-03	SS13E21O	WG792025	8270PAHSIM	GW	BRORESAOH	OH	1.11	0.055	05/29/15 0539	"WATER 15D29868/15D14085"
20	0528_19	L767150-04	SS13E21O	WG792025	8270PAHSIM	GW	BRORESAOH	OH	1.11	0.055	05/29/15 0600	"WATER 15D29868/15D14085"
21	0528_20	L767436-01	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.25	0.062	05/29/15 0622	"WATER 15D29868/15D14085"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK

Released By : Brett Basham
Date Released : 5/29/2015 11:20:08 AM

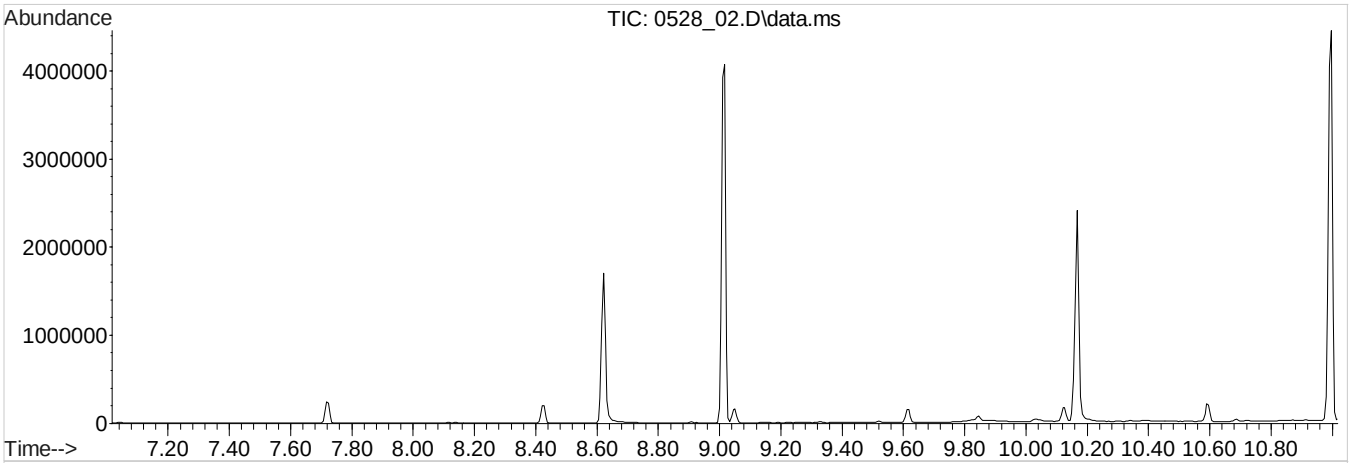
Run ID : 052815
Signature : _____

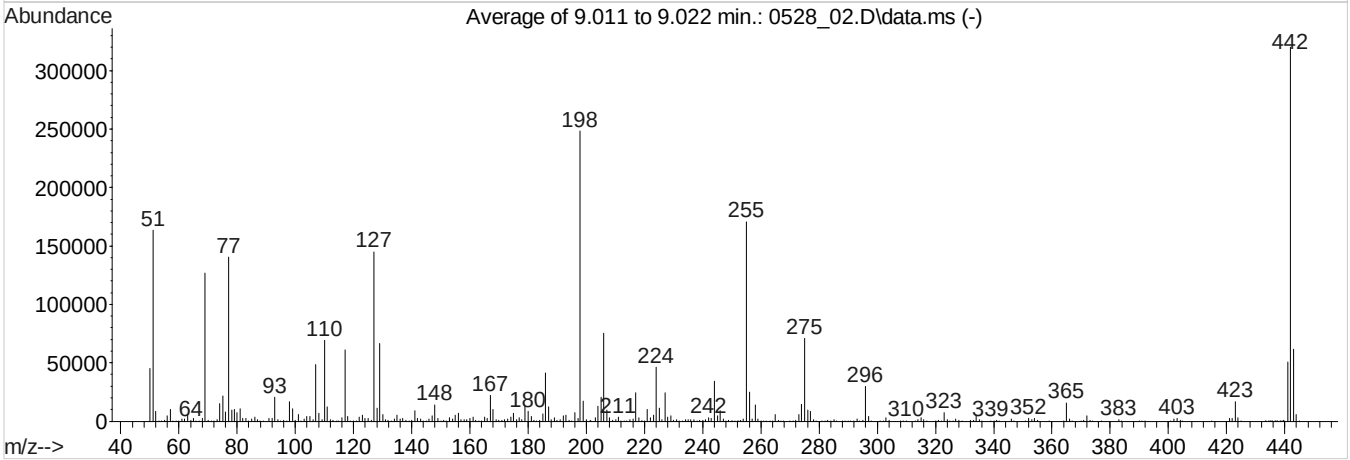
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	0528_21	L767436-02	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0643	"WATER 15D29868/15D14085"
23	0528_22	L767436-03	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0705	"WATER 15D29868/15D14085"
24	0528_23	L767436-04	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.25	0.062	05/29/15 0726	"WATER 15D29868/15D14085"
25	0528_24	L767436-05	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0748	"WATER 15D29868/15D14085"
26	0528_25	L767436-06	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0809	"WATER 15D29868/15D14085"
27	0528_26	L767436-07	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0831	"WATER 15D29868/15D14085"
28	0528_27	L767436-08	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0852	"WATER 15D29868/15D14085"
29	0528_28	L767436-09	SS13E21O	WG791845	8270PAHSIM	GW	ATCDOH	OH	1.11	0.055	05/29/15 0914	"WATER 15D29868/15D14085"

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:28 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





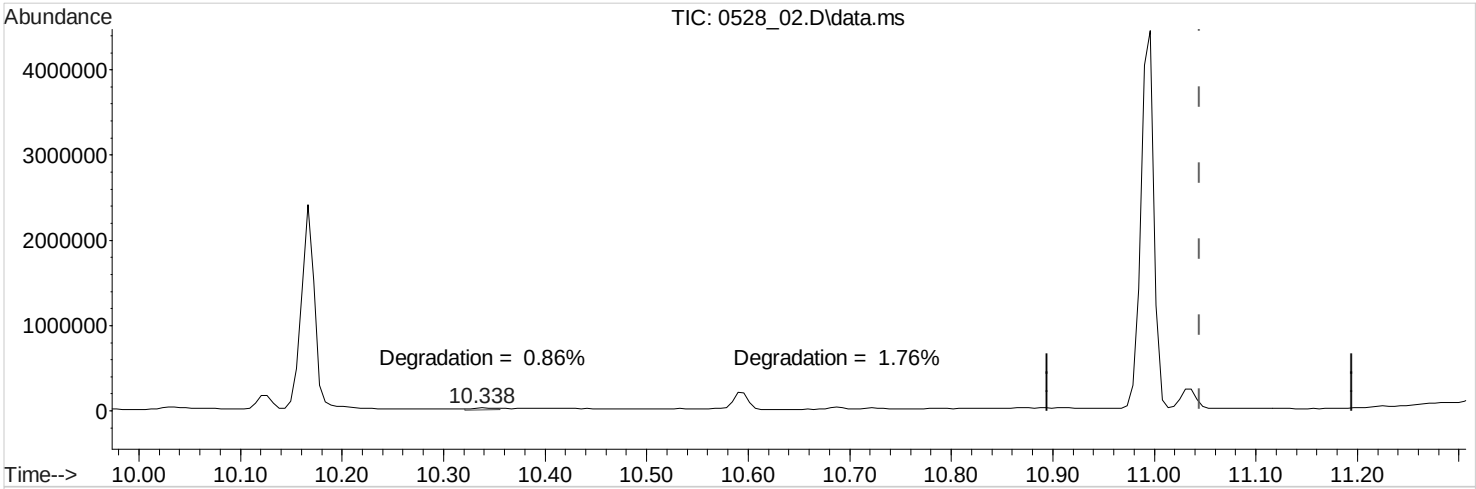
AutoFind: Scans 878, 879, 880; Background Corrected with Scan 873

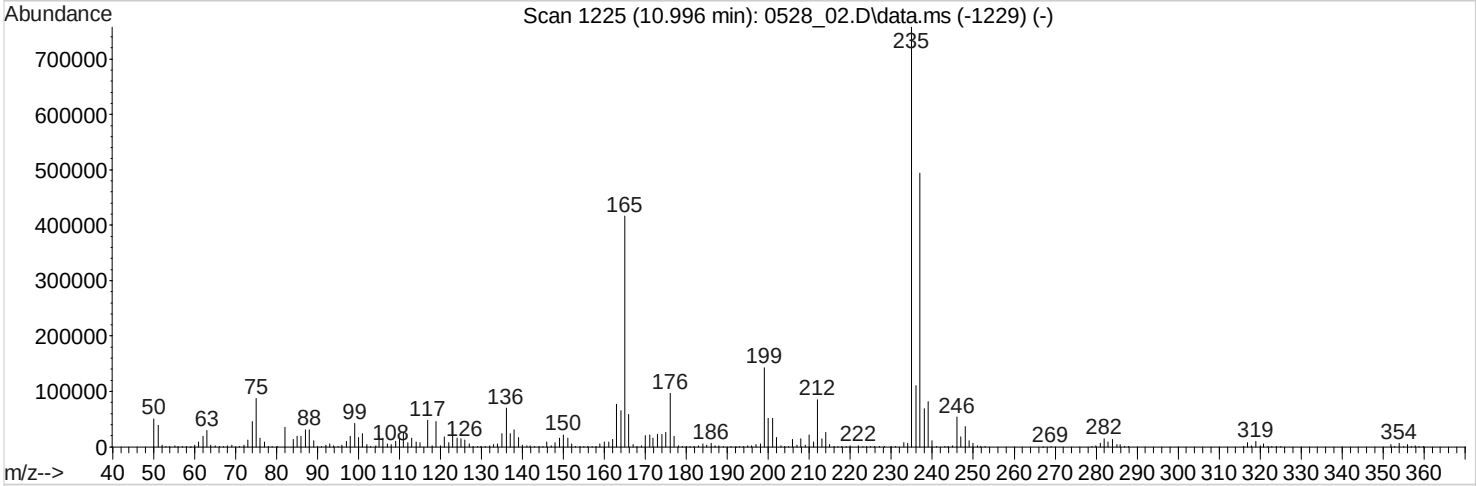
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	51.1	163578	PASS
68	69	0.00	2	1.8	2260	PASS
70	69	0.00	2	0.5	680	PASS
127	442	10	80	45.2	144731	PASS
197	198	0.00	2	0.9	2345	PASS
198	442	50	100	77.5	248245	PASS
199	198	5	9	6.9	17008	PASS
275	442	10	60	22.2	70968	PASS
365	442	1	100	4.9	15581	PASS
441	443	0.01	100	82.2	50624	PASS
442	442	50	100	100.0	320235	PASS
443	442	15	24	19.2	61621	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:28 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 28 23:45:01 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





TIC: 0528_02.D\data.ms

(4) DDT (T)

10.996min (-0.049) 3.0086828 ppm

Qvalue = 100

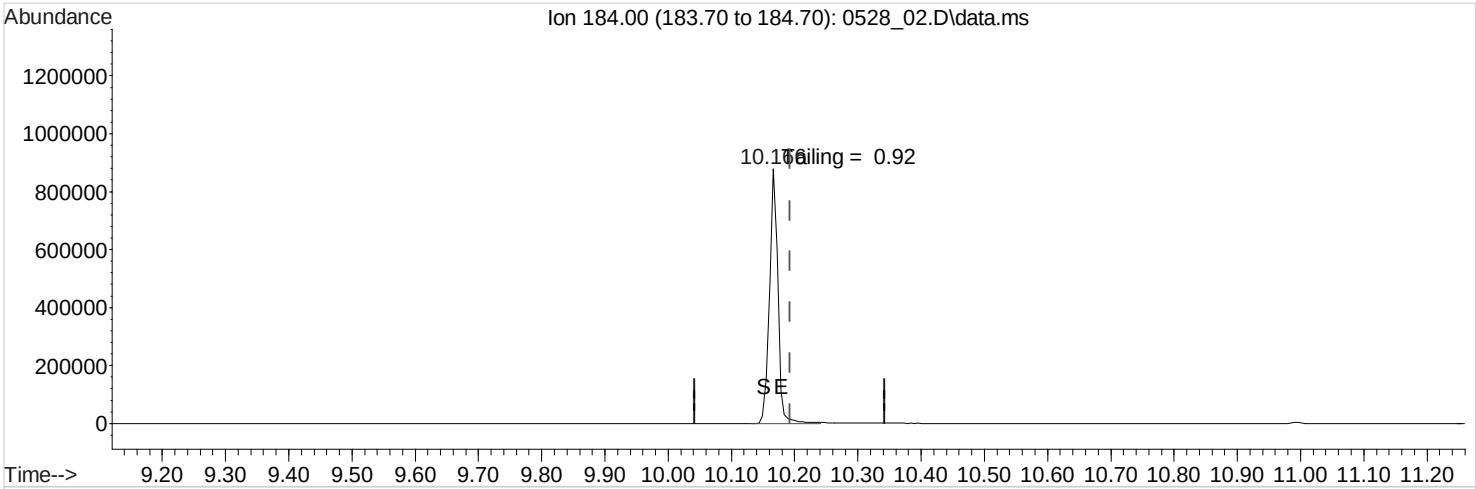
response 39269826

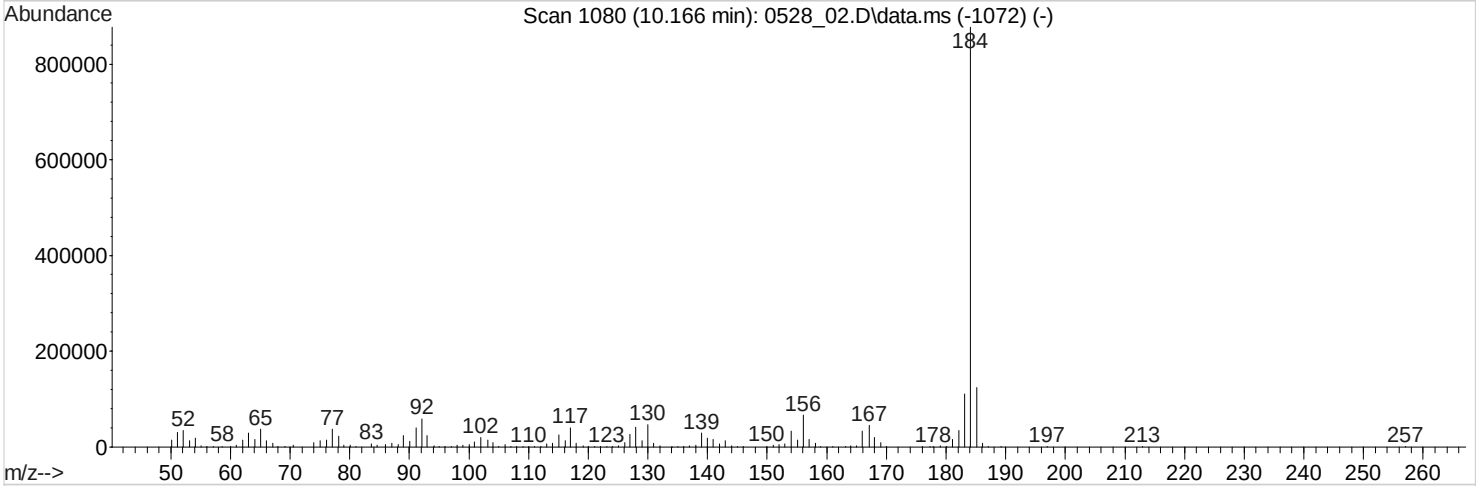
Signal	Exp%	Act%
TIC	100	100
0.00	6.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:28 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 28 23:45:01 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





TIC: 0528_02.D\data.ms

(3) Benzidine (T)

10.169min (-0.023) 0.2947146 ppm

Qvalue = 100

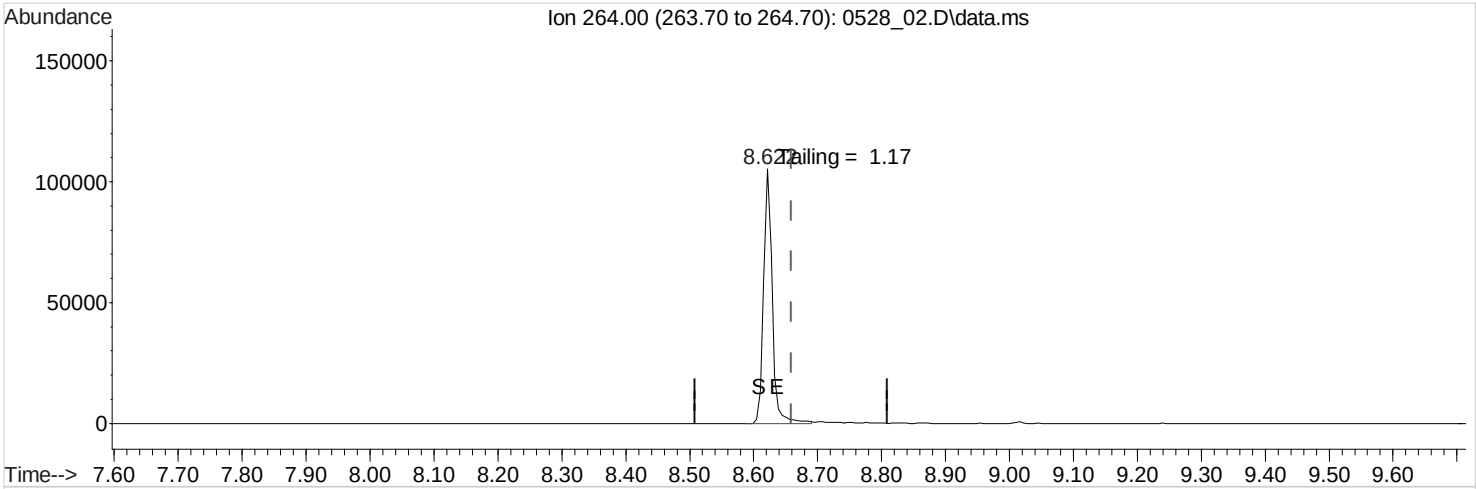
response 8084061

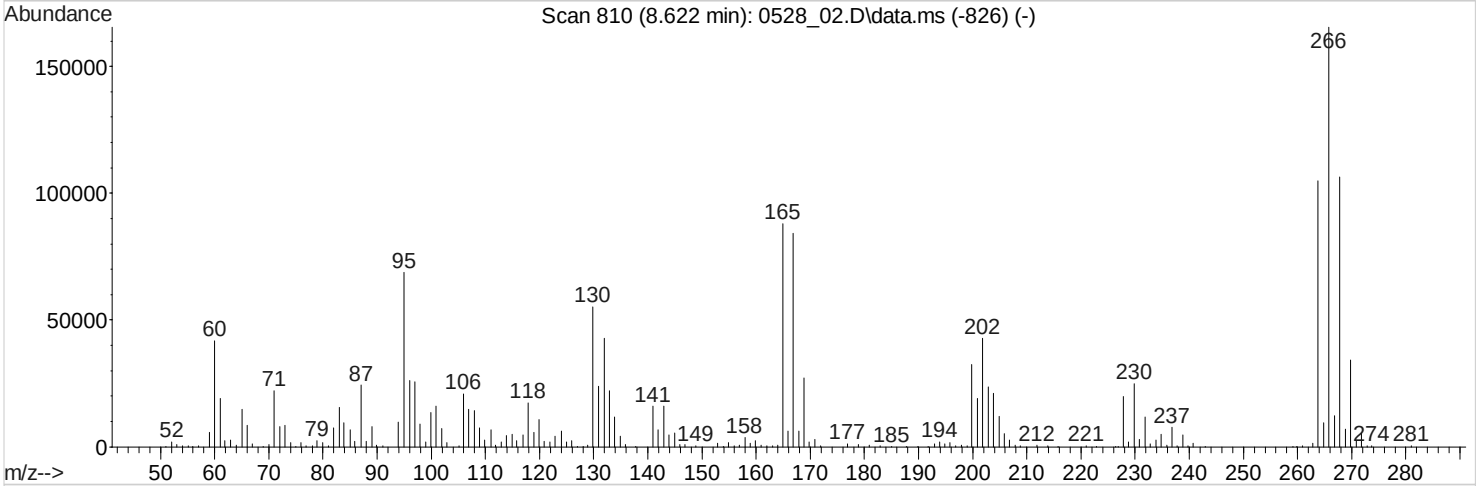
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 02.D
Acq On : 28 May 2015 11:28 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 28 23:45:01 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





TIC: 0528_02.D\data.ms

(1) Pentachlorophenol (T)

8.624min (-0.034) 0.3217193 ppm

Qvalue = 100

response 985305

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 Path : C:\msdchem\1\DATA\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 pm
Operator : 282
Sample : ICV SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 29 00:34:41 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

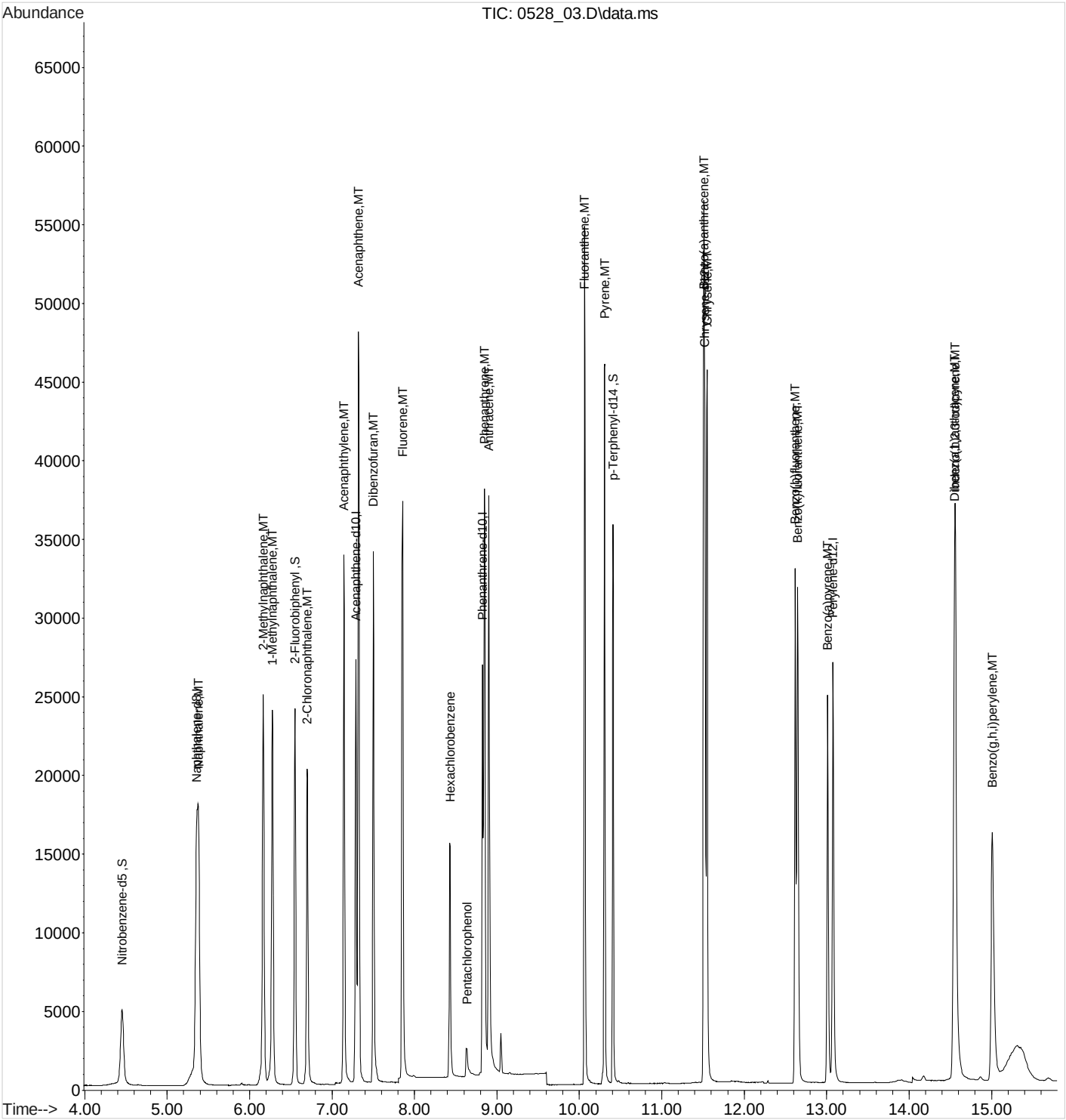
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	24561	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.291	164	15009	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.825	188	26295	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	31038	40.0000000	ppb	0.00
24) Perylene-d12	13.077	264	30872	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.453	82	9695	50.7716105	ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 2538.58%#			
7) 2-Fluorobiphenyl	6.550	172	22915	43.0593500	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 2152.97%#			
21) p-Terphenyl-d14	10.407	244	27335	37.8160787	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 1890.80%#			
Target Compounds						Qvalue
3) Naphthalene	5.382	128	29653	46.5049300	ppb	100
4) 2-Methylnaphthalene	6.166	142	20112	46.1560509	ppb	99
5) 1-Methylnaphthalene	6.276	142	18508	45.2560626	ppb	99
8) 2-Chloronaphthalene	6.698	162	20287	42.8797696	ppb	94
9) Acenaphthylene	7.144	152	29821	43.3882586	ppb	99
10) Acenaphthene	7.321	153	21197	43.9807056	ppb	97
11) Dibenzofuran	7.502	168	26693	43.1209585	ppb	97
12) Fluorene	7.856	166	22080	41.6630240	ppb	96
14) Hexachlorobenzene	8.432	284	6772	39.9208685	ppb	93
15) Pentachlorophenol	8.636	266	1412	47.1062000	ppb	95
16) Phenanthrene	8.847	178	30785	39.2023222	ppb	100
17) Anthracene	8.903	178	32466	43.1062638	ppb	99
18) Fluoranthene	10.064	202	36125	42.5535116	ppb	99
20) Pyrene	10.306	202	32894	37.6181300	ppb	99
22) Benzo(a)anthracene	11.509	228	34160	38.0871318	ppb	98
23) Chrysene	11.550	228	31825	37.3835919	ppb	99
25) Benzo(b)fluoranthene	12.620	252	30980	35.3290502	ppb	100
26) Benzo(k)fluoranthene	12.647	252	33019	39.9601969	ppb	97
27) Benzo(a)pyrene	13.012	252	27733	37.3595114	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.560	276	33898	36.8851420	ppb	89
29) Dibenz(a,h)anthracene	14.549	278	28811	37.3579694	ppb	89
30) Benzo(g,h,i)perylene	15.010	276	28138	36.2342903	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 pm
Operator : 282
Sample : ICV SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

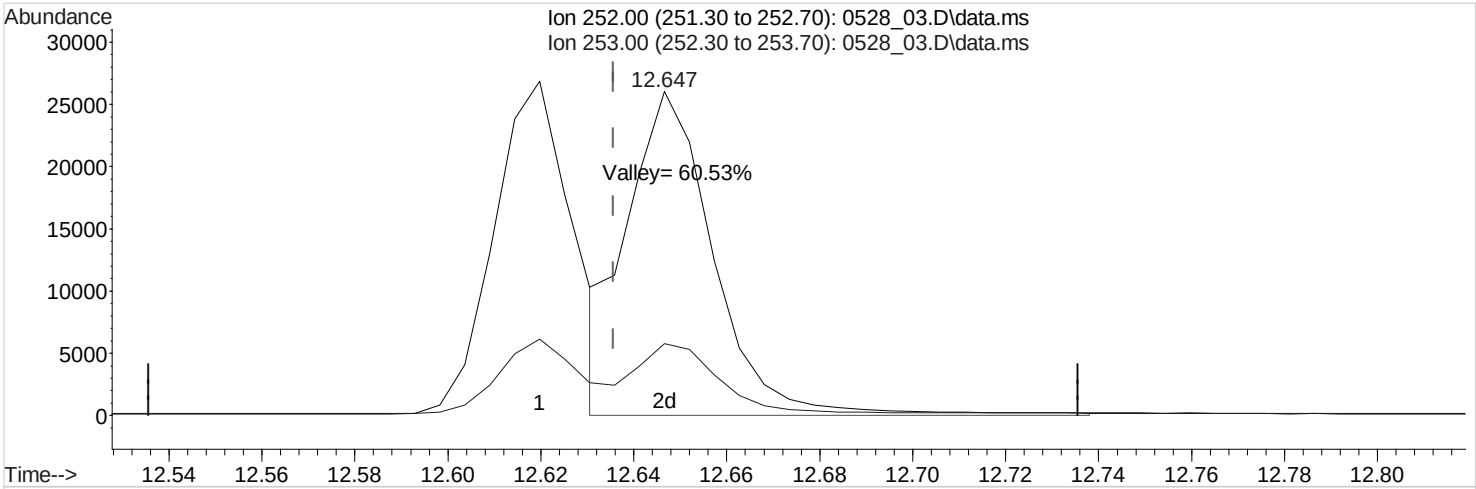
Quant Time: May 29 00:34:41 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

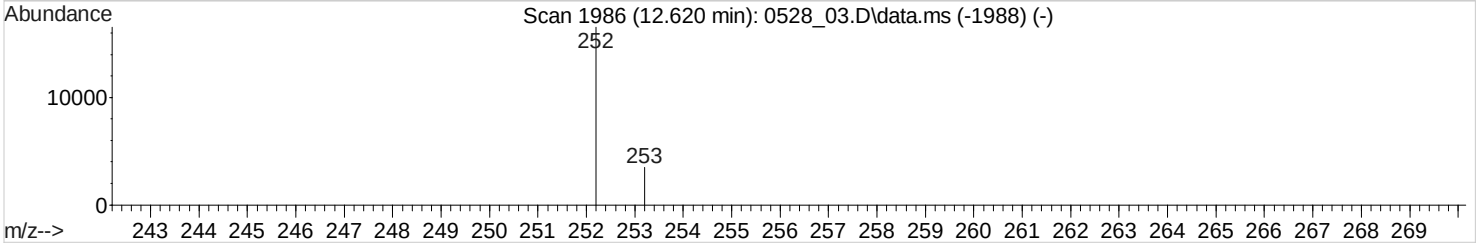


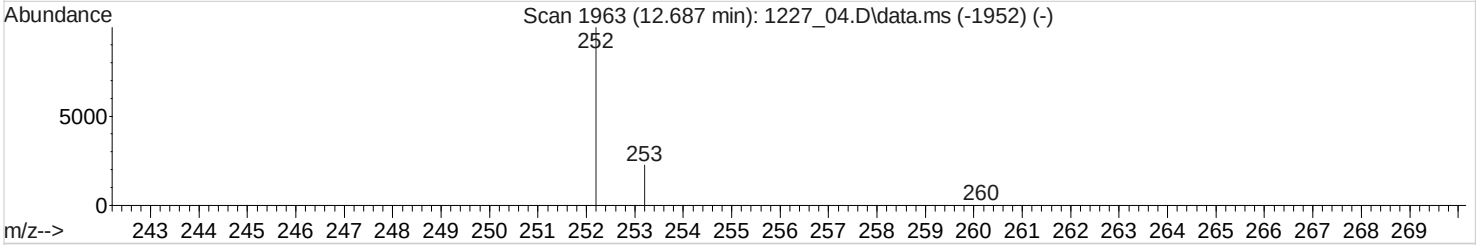
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 03.D
Acq On : 28 May 2015 11:50 pm
Operator : 282
Sample : ICV SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 29 00:34:41 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_03.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.620min (-0.016) 35.3290502 ppb

Qvalue = 100

response 30980

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 04.D
Acq On : 29 May 2015 12:37 am
Operator : 282
Sample : LCS 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 66 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 07:38:29 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

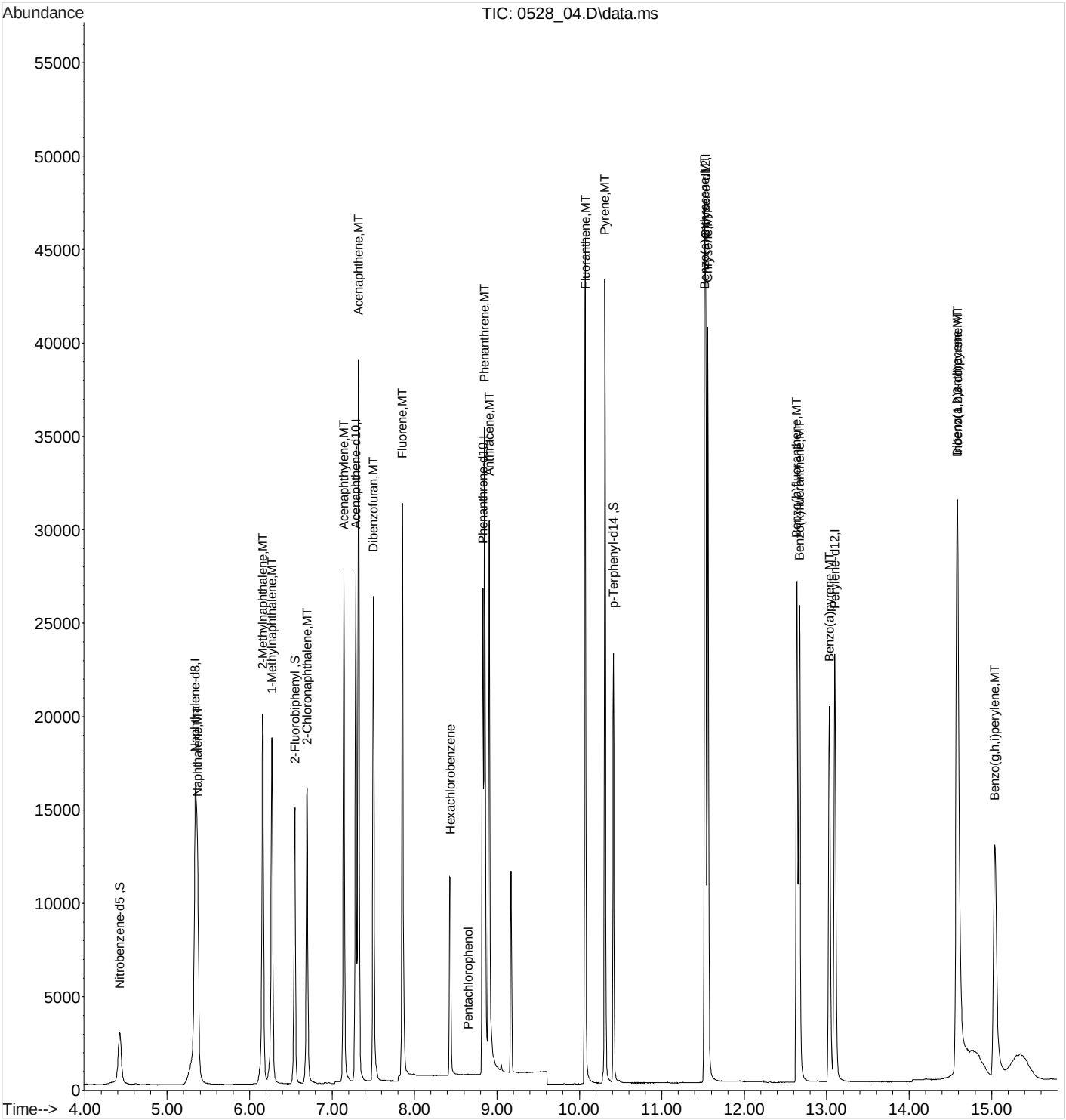
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.341	136	25461	40.0000000	ppb	-0.04
6) Acenaphthene-d10	7.287	164	15444	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.829	188	26307	40.0000000	ppb	0.00
19) Chrysene-d12	11.531	240	26699	40.0000000	ppb	0.00
24) Perylene-d12	13.098	264	27418	40.0000000	ppb	0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.423	82	5868	1.4821898	ppb	-0.06
Spiked Amount 2.000	Range 45 - 170		Recovery = 74.11%			
7) 2-Fluorobiphenyl	6.550	172	14226	1.2989498	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 64.95%			
21) p-Terphenyl-d14	10.414	244	17605	1.4156705	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 70.78%			
Target Compounds						Qvalue
3) Naphthalene	5.367	128	22954	1.7363182	ppb	99
4) 2-Methylnaphthalene	6.159	142	15917	1.7618754	ppb	97
5) 1-Methylnaphthalene	6.272	142	14512	1.7115325	ppb	100
8) 2-Chloronaphthalene	6.698	162	16320	1.6761649	ppb	100
9) Acenaphthylene	7.144	152	24228	1.7128903	ppb	99
10) Acenaphthene	7.321	153	17288	1.7429885	ppb	97
11) Dibenzofuran	7.502	168	21935	1.7218314	ppb	98
12) Fluorene	7.852	166	18200	1.6687262	ppb	99
14) Hexachlorobenzene	8.435	284	5200	1.5319981	ppb	92
15) Pentachlorophenol	8.646	266	7	1.0205758	ppb #	81
16) Phenanthrene	8.850	178	26559	1.6902705	ppb	100
17) Anthracene	8.906	178	27802	1.8448433	ppb	99
18) Fluoranthene	10.071	202	32107	1.8901625	ppb	98
20) Pyrene	10.310	202	29075	1.9327202	ppb	100
22) Benzo(a)anthracene	11.522	228	29010	1.8800824	ppb	97
23) Chrysene	11.558	228	28340	1.9350010	ppb	99
25) Benzo(b)fluoranthene	12.636	252	27632	1.7740337	ppb	96
26) Benzo(k)fluoranthene	12.668	252	29871	2.0352252	ppb	97
27) Benzo(a)pyrene	13.033	252	24440	1.8535510	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.587	276	31086	1.9043257	ppb	91
29) Dibenz(a,h)anthracene	14.581	278	26661	1.9462578	ppb	87
30) Benzo(g,h,i)perylene	15.037	276	25018	1.8137529	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 04.D
Acq On : 29 May 2015 12:37 am
Operator : 282
Sample : LCS 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 66 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 07:38:29 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 05.D
Acq On : 29 May 2015 12:59 am
Operator : 282
Sample : LCSD 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 67 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 08:56:56 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

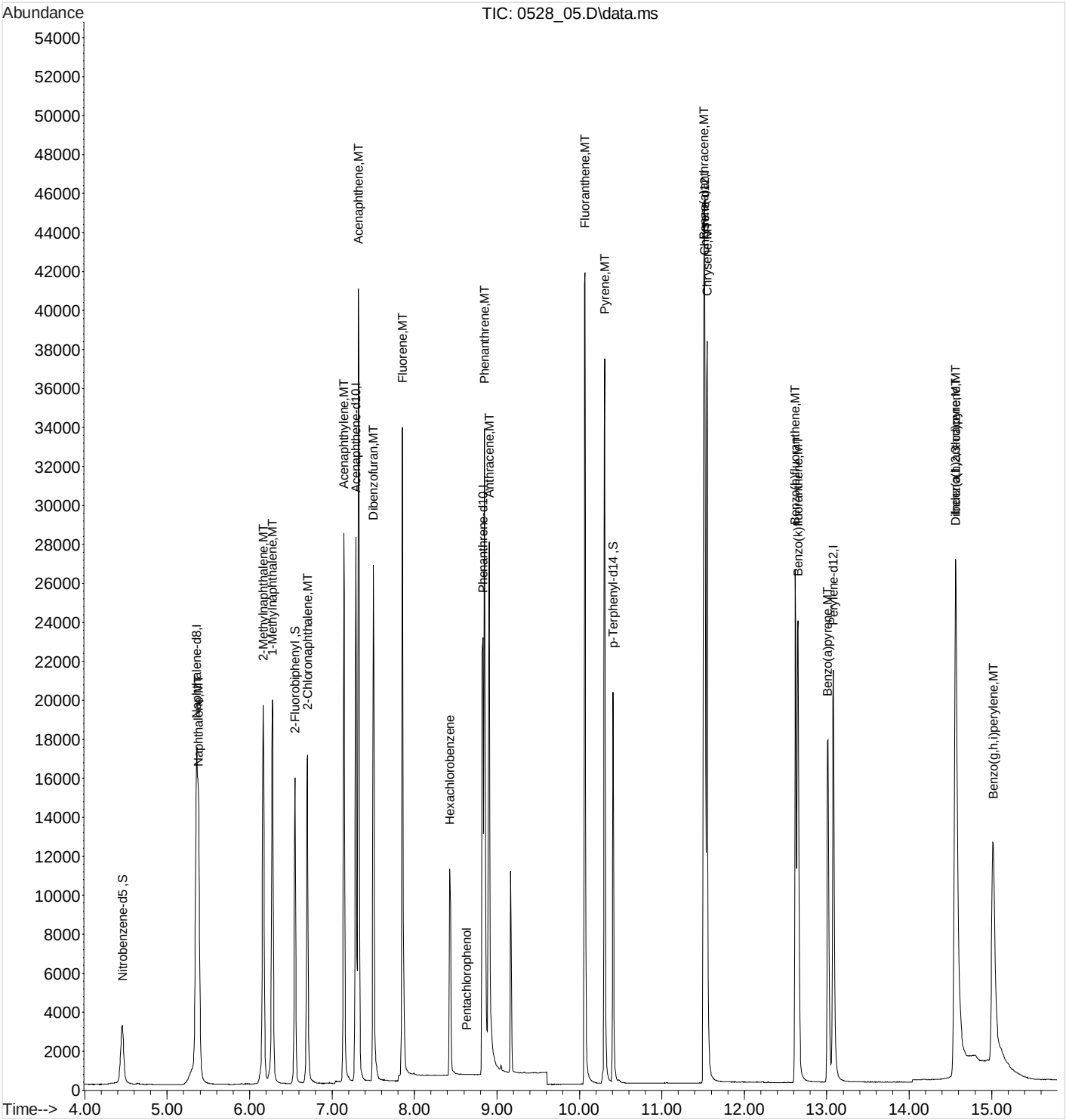
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	26260	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.287	164	15774	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.829	188	26249	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	26958	40.0000000	ppb	0.00
24) Perylene-d12	13.082	264	26796	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.457	82	6232m	1.5262367	ppb	-0.02
Spiked Amount 2.000	Range 45 - 170		Recovery = 76.31%			
7) 2-Fluorobiphenyl	6.550	172	14405	1.2877774	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 64.39%			
21) p-Terphenyl-d14	10.410	244	16413	1.3071380	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 65.36%			
Target Compounds						Qvalue
3) Naphthalene	5.382	128	23290	1.7081310	ppb	99
4) 2-Methylnaphthalene	6.167	142	16049	1.7224344	ppb	98
5) 1-Methylnaphthalene	6.276	142	14915	1.7055398	ppb	98
8) 2-Chloronaphthalene	6.702	162	16475	1.6566851	ppb	98
9) Acenaphthylene	7.144	152	24543	1.6988600	ppb	99
10) Acenaphthene	7.321	153	17569	1.7342622	ppb	97
11) Dibenzofuran	7.502	168	22343	1.7171666	ppb	97
12) Fluorene	7.852	166	18527	1.6631704	ppb	99
14) Hexachlorobenzene	8.428	284	5107	1.5079235	ppb	99
15) Pentachlorophenol	8.632	266	1	1.0148366	ppb #	1
16) Phenanthrene	8.850	178	25912	1.6527379	ppb	99
17) Anthracene	8.906	178	26635	1.7713106	ppb	99
18) Fluoranthene	10.067	202	30502	1.7996427	ppb	98
20) Pyrene	10.306	202	27687	1.8227725	ppb	100
22) Benzo(a)anthracene	11.508	228	27559	1.7688863	ppb	100
23) Chrysene	11.549	228	27706	1.8735380	ppb	99
25) Benzo(b)fluoranthene	12.619	252	27075	1.7786226	ppb	98
26) Benzo(k)fluoranthene	12.652	252	28097	1.9587926	ppb	95
27) Benzo(a)pyrene	13.012	252	23397	1.8156382	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.565	276	29997	1.8802691	ppb	91
29) Dibenz(a,h)anthracene	14.560	278	25511	1.9055362	ppb	89
30) Benzo(g,h,i)perylene	15.021	276	24815	1.8407958	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 05.D
Acq On : 29 May 2015 12:59 am
Operator : 282
Sample : LCSD 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 67 Sample Multiplier: 0.05
InstName : BNAMS13

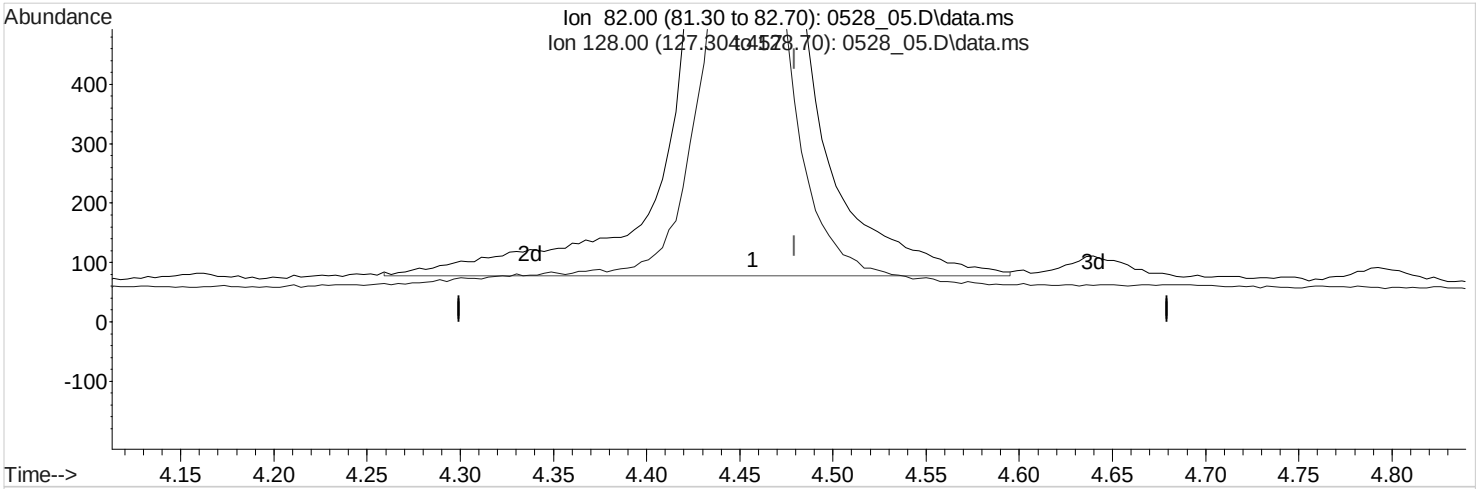
Quant Time: May 29 08:56:56 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

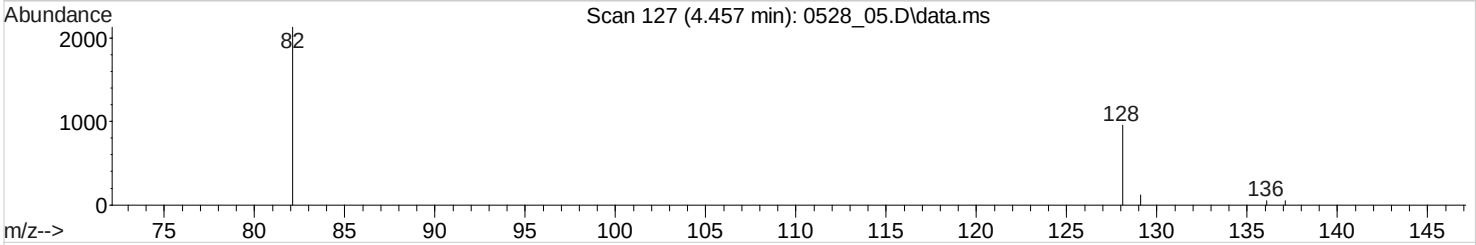


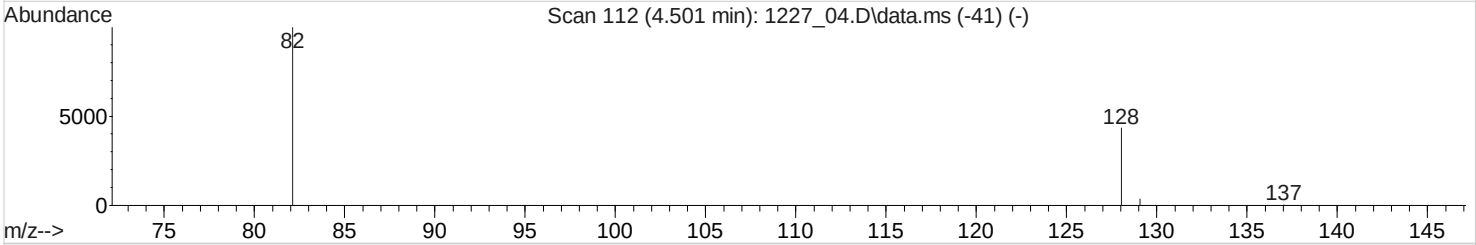
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 05.D
Acq On : 29 May 2015 12:59 am
Operator : 282
Sample : LCSD 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 67 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 07:38:33 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_05.D\data.ms

(2) Nitrobenzene-d5 (S)

4.457min (-0.022) 1.5262367 ppb m

response 6232

Ion	Exp%	Act%
82.00	100	100
128.00	47.90	44.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On : 29 May 2015 1:20 am
Operator : 282
Sample : BLANK 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 68 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 08:57:36 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

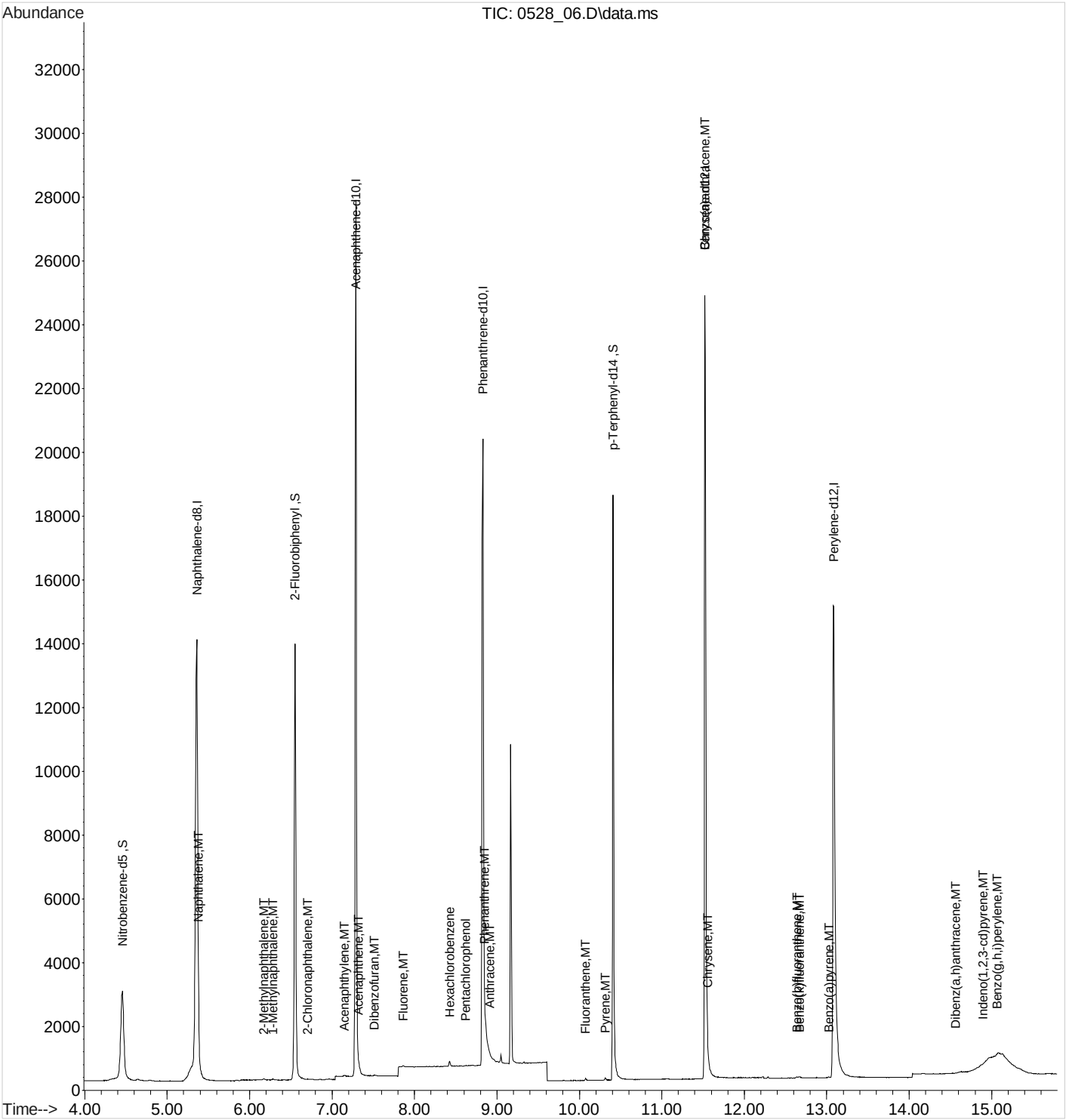
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.359	136	26078	40.0000000 ppb	-0.02
6) Acenaphthene-d10	7.287	164	15729	40.0000000 ppb	-0.01
13) Phenanthrene-d10	8.829	188	24321	40.0000000 ppb	0.00
19) Chrysene-d12	11.522	240	24879	40.0000000 ppb	0.00
24) Perylene-d12	13.087	264	23806	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.457	82	5800m	1.4303519 ppb	-0.02
Spiked Amount 2.000	Range 45 - 170		Recovery = 71.52%		
7) 2-Fluorobiphenyl	6.554	172	13252	1.1880909 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 59.40%		
21) p-Terphenyl-d14	10.410	244	15665	1.3518193 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 67.59%		
Target Compounds					Qvalue
3) Naphthalene	5.378	128	88	0.0064991 ppb	93
4) 2-Methylnaphthalene	6.171	142	37	0.0039987 ppb	92
5) 1-Methylnaphthalene	6.284	142	30	0.0034545 ppb	80
8) 2-Chloronaphthalene	6.706	162	23	0.0023194 ppb	93
9) Acenaphthylene	7.148	152	35	0.0024296 ppb	94
10) Acenaphthene	7.321	153	36	0.0035638 ppb #	82
11) Dibenzofuran	7.513	168	38	0.0029288 ppb	93
12) Fluorene	7.866	166	24m	0.0021606 ppb	
14) Hexachlorobenzene	8.428	284	26m	0.0082855 ppb	
15) Pentachlorophenol	8.618	266	3	1.0169827 ppb #	19
16) Phenanthrene	8.850	178	139	0.0095686 ppb	98
17) Anthracene	8.913	178	30	0.0021533 ppb	82
18) Fluoranthene	10.075	202	63	0.0040117 ppb	96
20) Pyrene	10.313	202	60	0.0042802 ppb	86
22) Benzo(a)anthracene	11.522	228	105	0.0073027 ppb	78
23) Chrysene	11.554	228	55	0.0040300 ppb	97
25) Benzo(b)fluoranthene	12.641	252	43	0.0031796 ppb	62
26) Benzo(k)fluoranthene	12.668	252	44	0.0034527 ppb	69
27) Benzo(a)pyrene	13.028	252	39	0.0034066 ppb	65
28) Indeno(1,2,3-cd)pyrene	14.896	276	2	0.0001411 ppb	89
29) Dibenz(a,h)anthracene	14.560	278	3	0.0002522 ppb #	1
30) Benzo(g,h,i)perylene	15.064	276	24	0.0020039 ppb	99

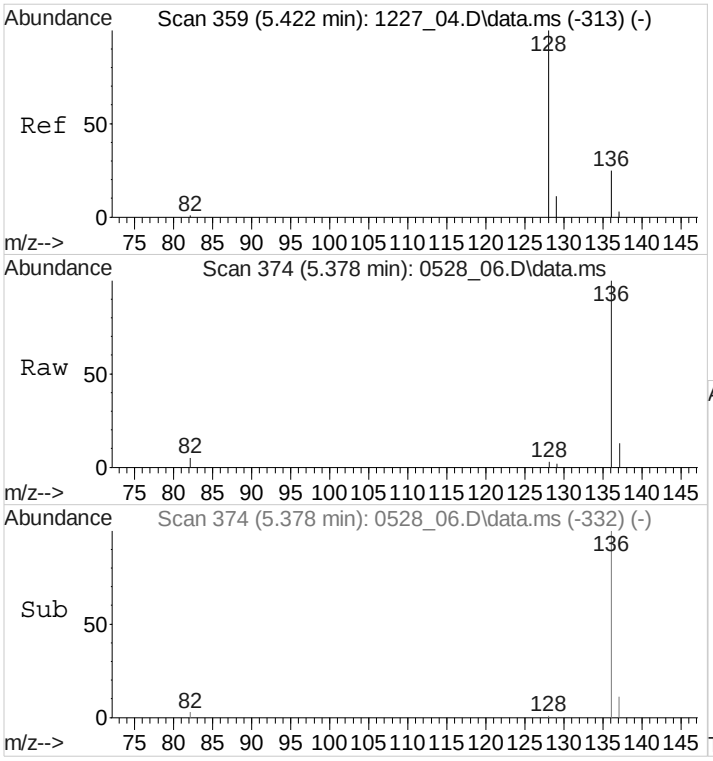
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On : 29 May 2015 1:20 am
Operator : 282
Sample : BLANK 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 68 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 08:57:36 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

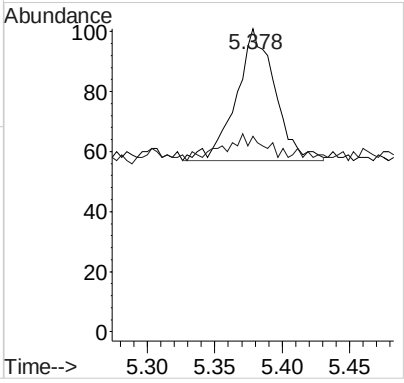


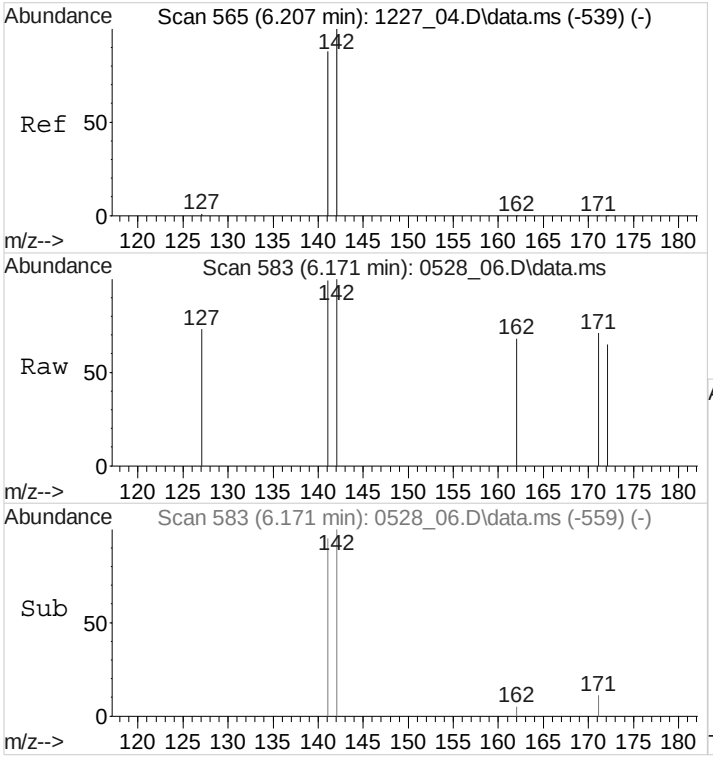


#3
Naphthalene
Concen: 0.0064991 ppb
RT: 5.378 min Scan# 374
Delta R.T. -0.022 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:128 Resp: 88

Ion	Ratio	Lower	Upper
128	100		
129	13.6	0.0	30.9

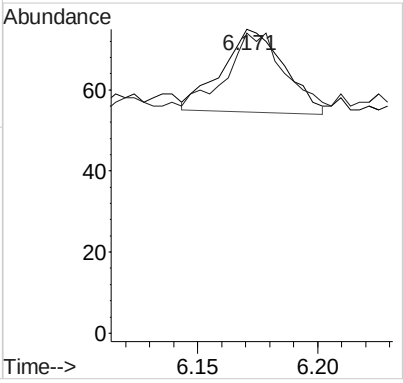


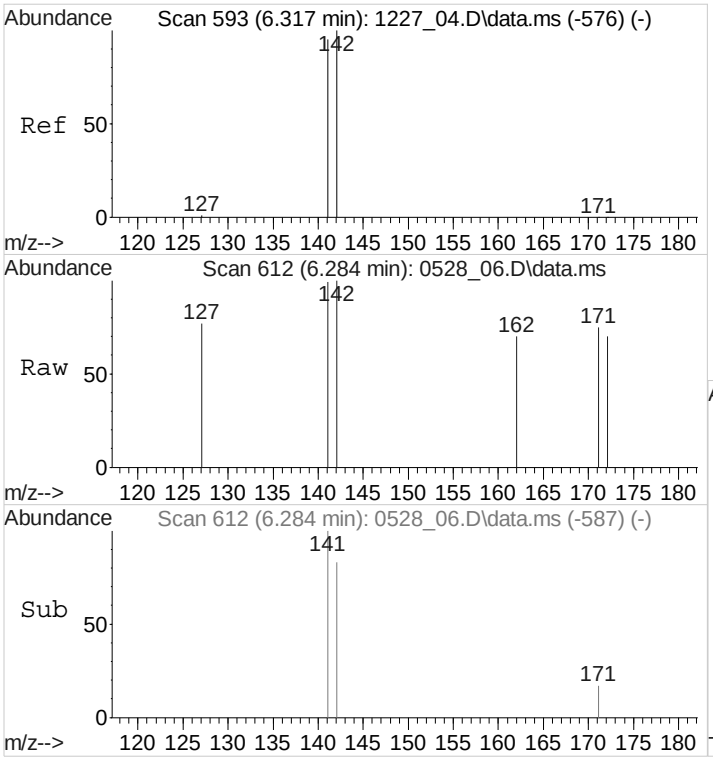


#4
2-Methylnaphthalene
Concen: 0.0039987 ppb
RT: 6.171 min Scan# 583
Delta R.T. -0.008 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:142 Resp: 37

Ion	Ratio	Lower	Upper
142	100		
141	94.7	67.1	107.1

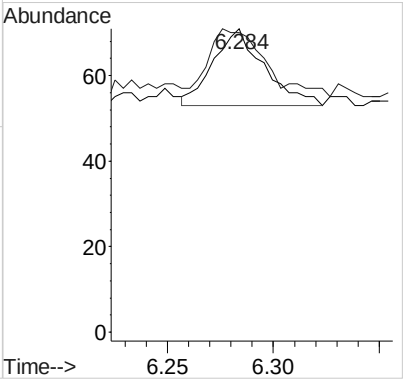


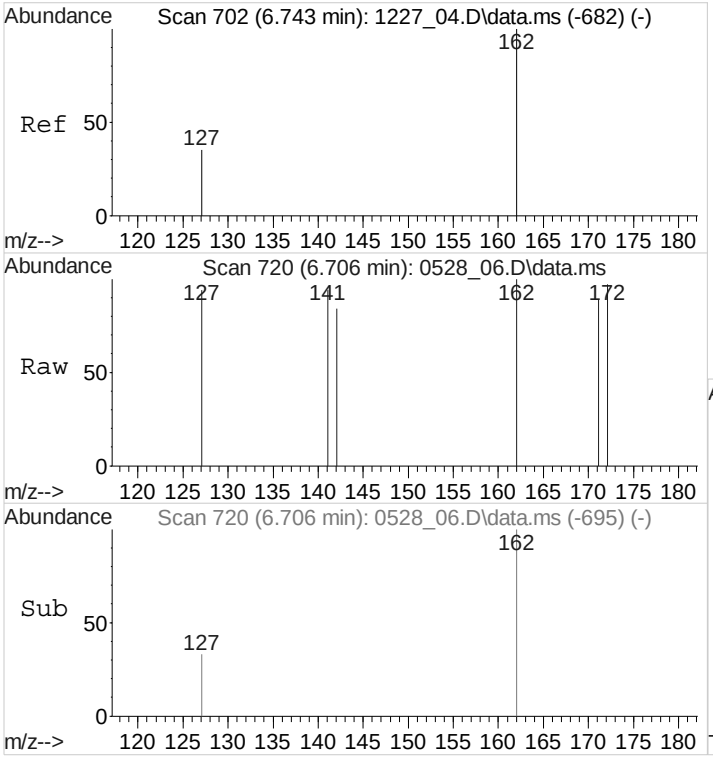


#5
1-Methylnaphthalene
Concen: 0.0034545 ppb
RT: 6.284 min Scan# 612
Delta R.T. -0.004 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:142 Resp: 30

Ion	Ratio	Lower	Upper
142	100		
141	72.2	71.6	111.6

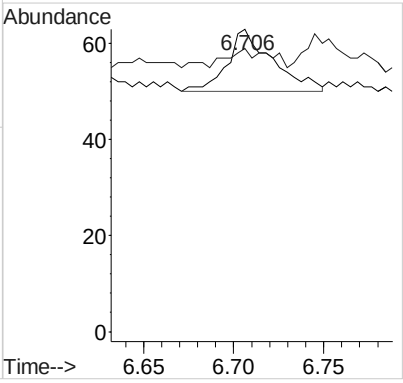


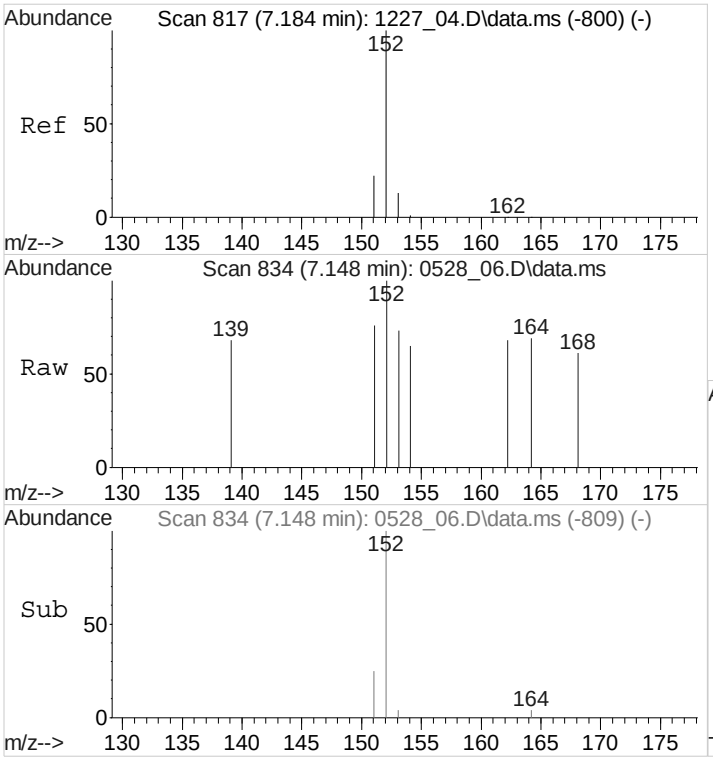


#8
2-Chloronaphthalene
Concen: 0.0023194 ppb
RT: 6.706 min Scan# 720
Delta R.T. -0.004 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:162 Resp: 23

Ion	Ratio	Lower	Upper
162	100		
127	30.8	14.7	54.7

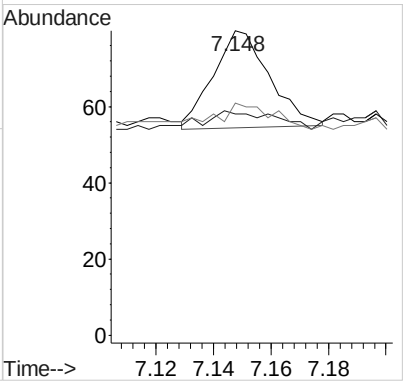


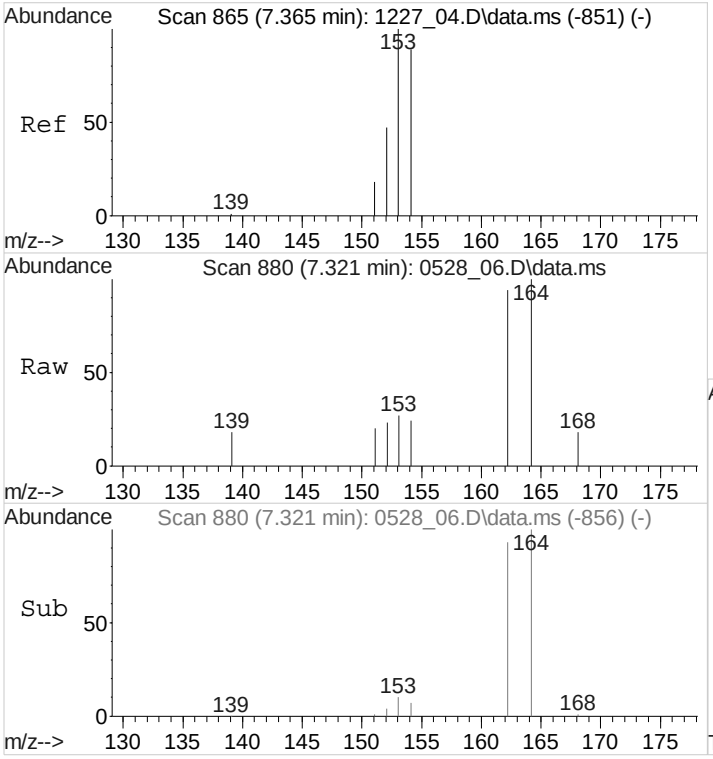


#9
Acenaphthylene
Concen: 0.0024296 ppb
RT: 7.148 min Scan# 834
Delta R.T. -0.008 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:152 Resp: 35

Ion	Ratio	Lower	Upper
152	100		
153	12.5	0.0	33.0
151	25.0	0.8	40.8

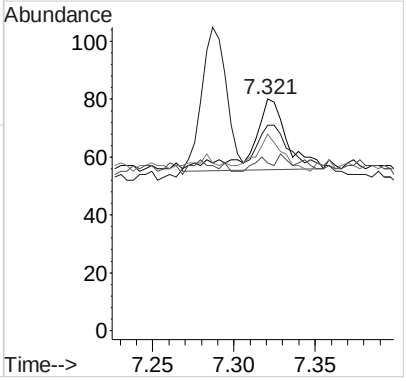


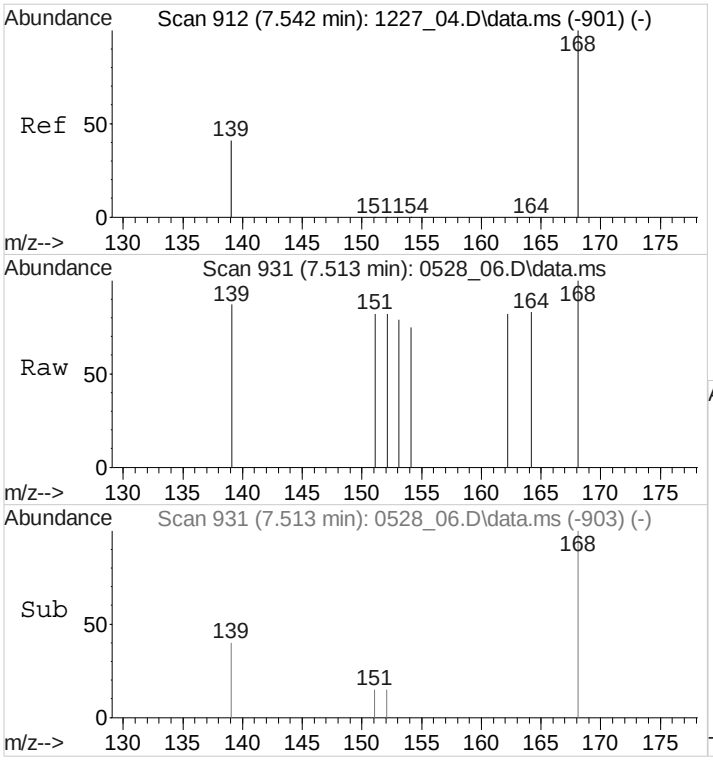


#10
Acenaphthene
Concen: 0.0035638 ppb
RT: 7.321 min Scan# 880
Delta R.T. -0.011 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:153 Resp: 36

Ion	Ratio	Lower	Upper
153	100		
154	62.5	71.0	111.0#
152	45.8	27.0	67.0
151	16.7	0.0	37.6

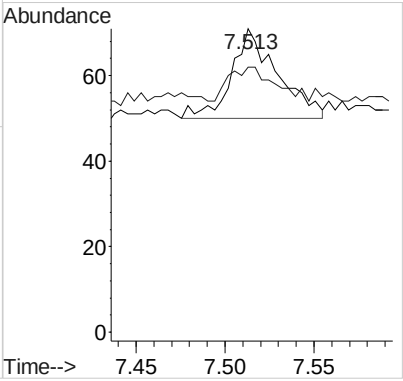


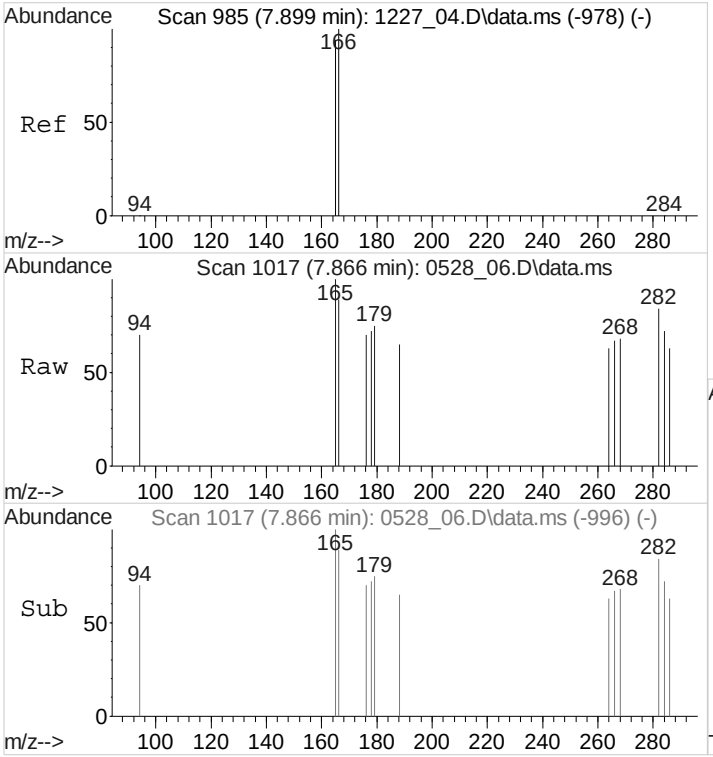


#11
Dibenzofuran
Concen: 0.0029288 ppb
RT: 7.513 min Scan# 931
Delta R.T. 0.004 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:168 Resp: 38

Ion	Ratio	Lower	Upper
168	100		
139	33.3	17.4	57.4

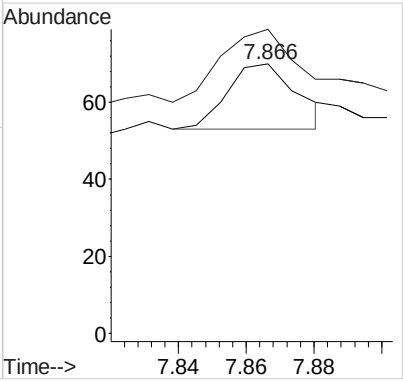


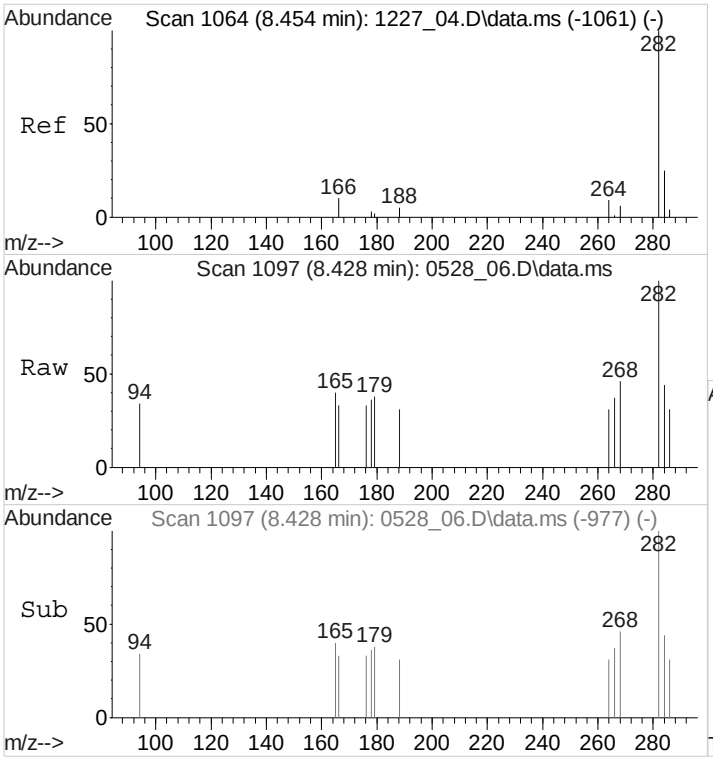


#12
Fluorene
Concen: 0.0021606 ppb m
RT: 7.866 min Scan# 1017
Delta R.T. 0.007 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:166 Resp: 24

Ion	Ratio	Lower	Upper
166	100		
165	112.9	78.8	118.8

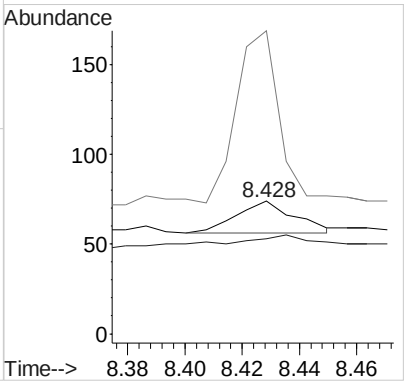


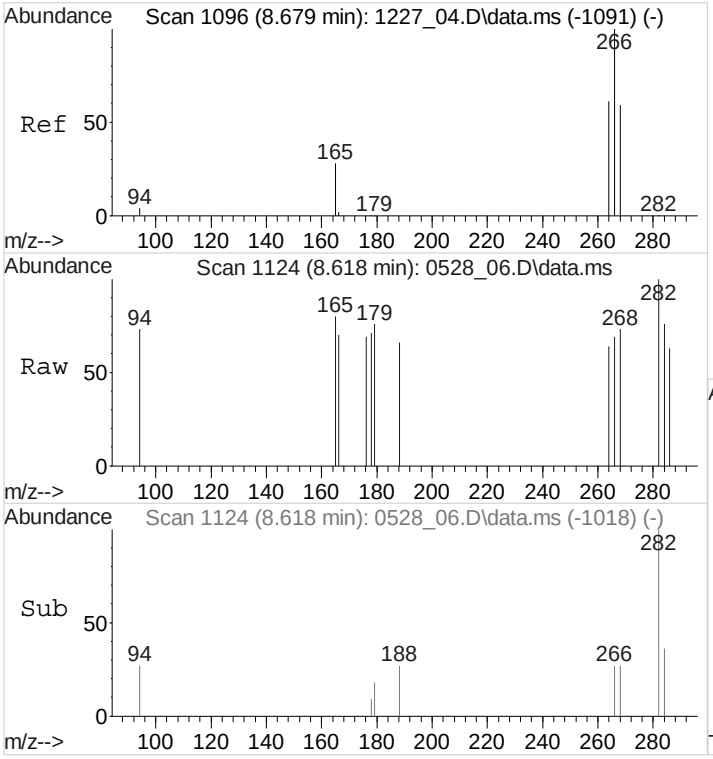


#14
Hexachlorobenzene
Concen: 0.0082855 ppb m
RT: 8.428 min Scan# 1097
Delta R.T. -0.007 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:284 Resp: 26

Ion	Ratio	Lower	Upper
284	100		
286	71.6	59.6	89.4
282	228.4	45.5	68.3#

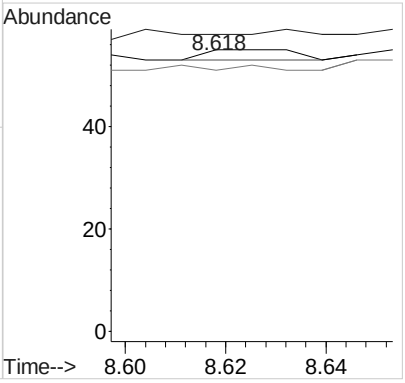


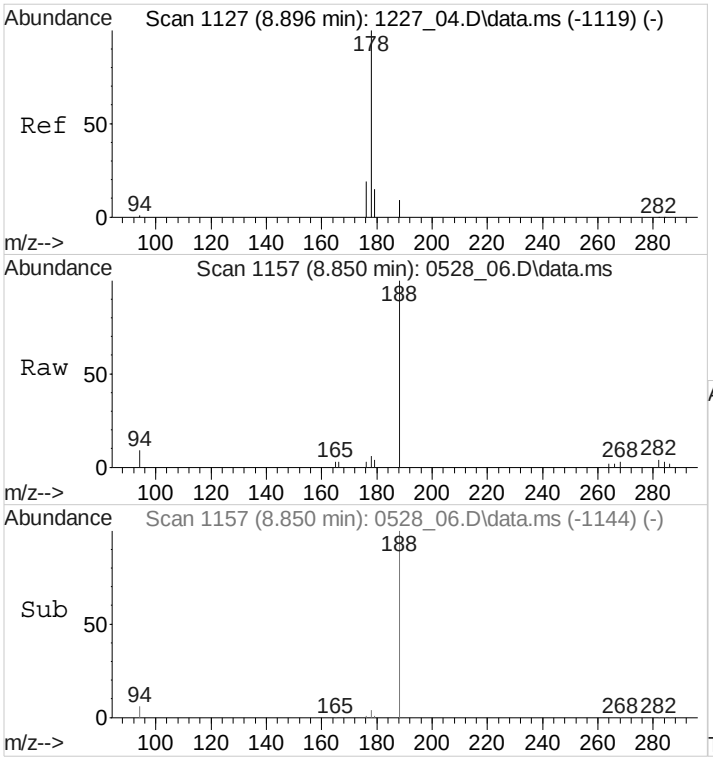


#15
Pentachlorophenol
Concen: 1.0169827 ppb
RT: 8.618 min Scan# 1124
Delta R.T. -0.007 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:266 Resp: 3

Ion	Ratio	Lower	Upper
266	100		
268	0.0	48.4	72.6#
264	0.0	51.8	77.6#

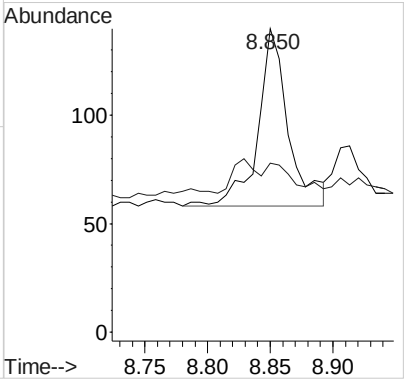


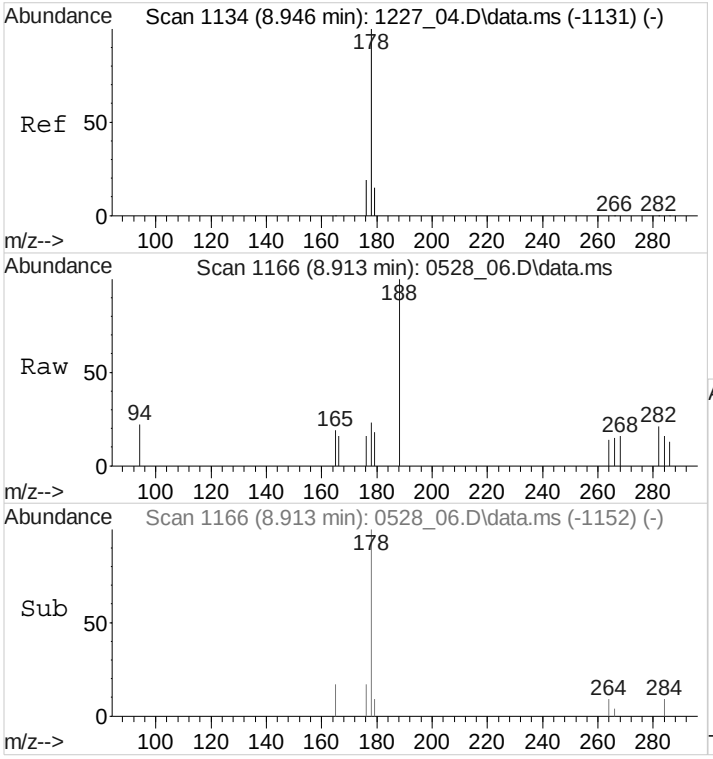


#16
Phenanthrene
Concen: 0.0095686 ppb
RT: 8.850 min Scan# 1157
Delta R.T. -0.007 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:178 Resp: 139

Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	35.0

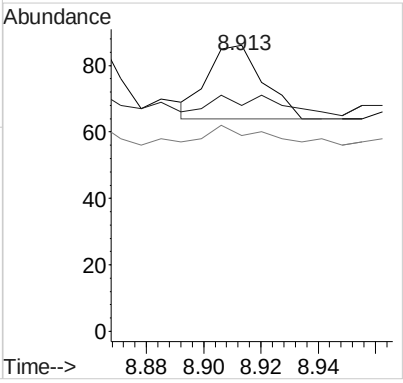


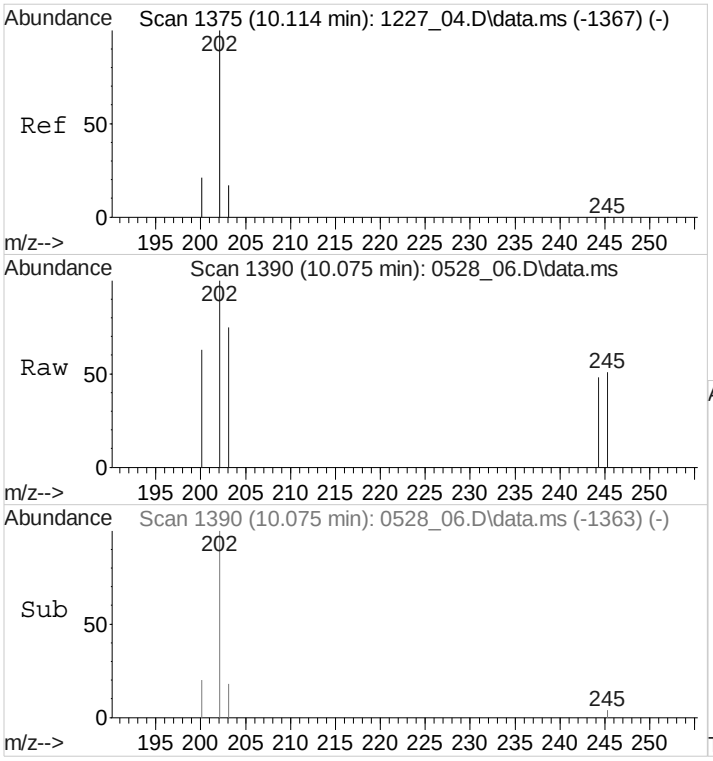


#17
Anthracene
Concen: 0.0021533 ppb
RT: 8.913 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:178 Resp: 30

Ion	Ratio	Lower	Upper
178	100		
179	9.1	0.0	35.5
176	9.1	0.0	38.1

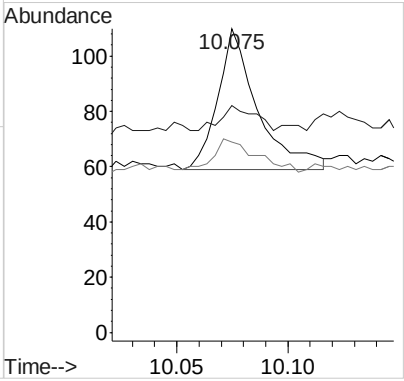


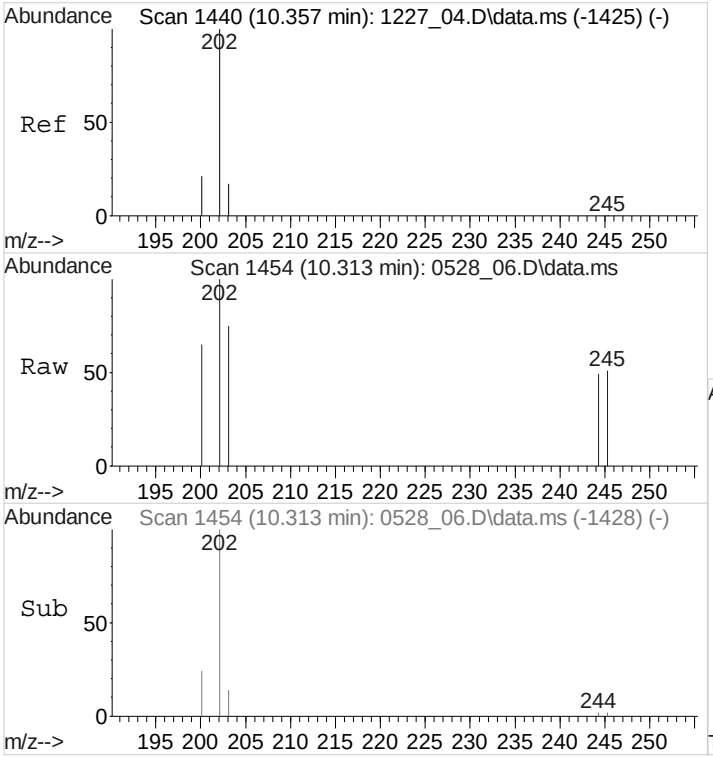


#18
Fluoranthene
Concen: 0.0040117 ppb
RT: 10.075 min Scan# 1390
Delta R.T. -0.000 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:202 Resp: 63

Ion	Ratio	Lower	Upper
202	100		
203	13.7	0.0	36.7
200	19.6	0.8	40.8

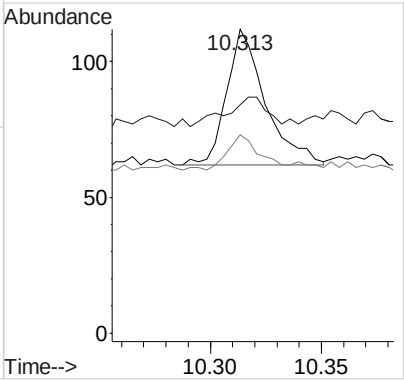


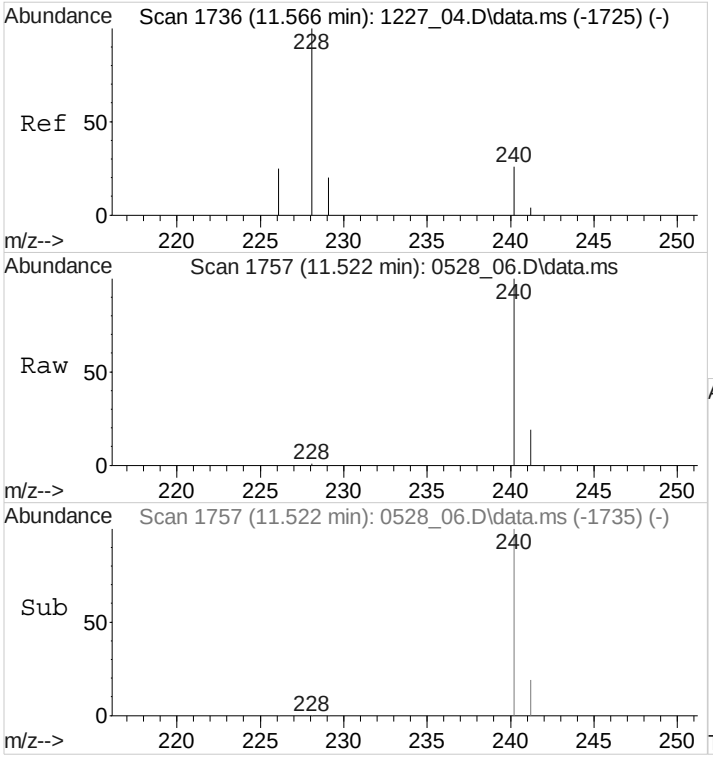


#20
Pyrene
Concen: 0.0042802 ppb
RT: 10.313 min Scan# 1454
Delta R.T. -0.004 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:202 Resp: 60

Ion	Ratio	Lower	Upper
202	100		
203	10.0	0.0	37.2
200	26.0	0.7	40.7

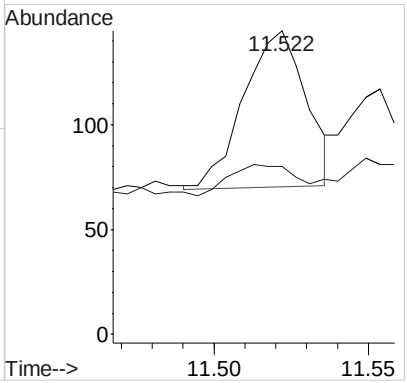


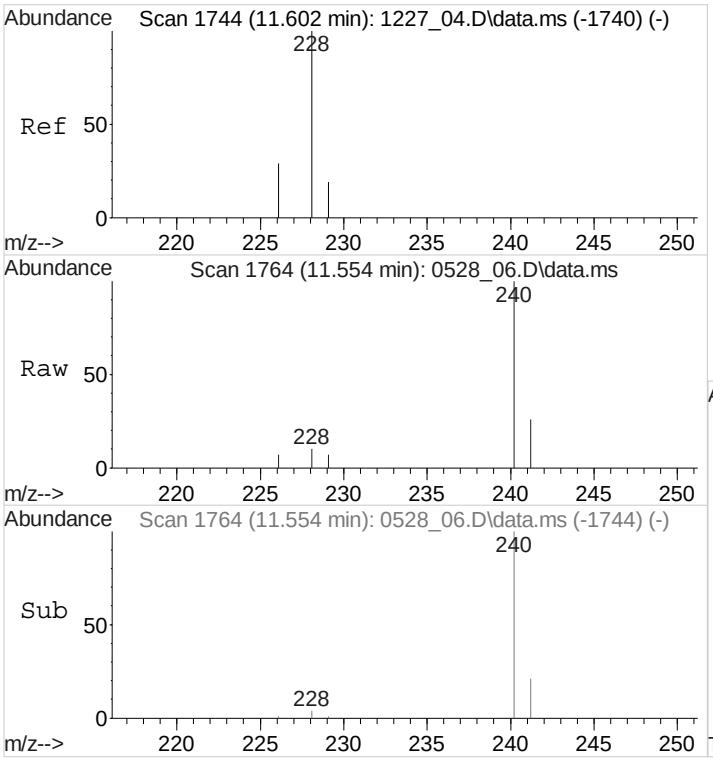


#22
Benzo(a)anthracene
Concen: 0.0073027 ppb
RT: 11.522 min Scan# 1757
Delta R.T. -0.000 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:228 Resp: 105

Ion	Ratio	Lower	Upper
228	100		
226	16.2	7.6	47.6

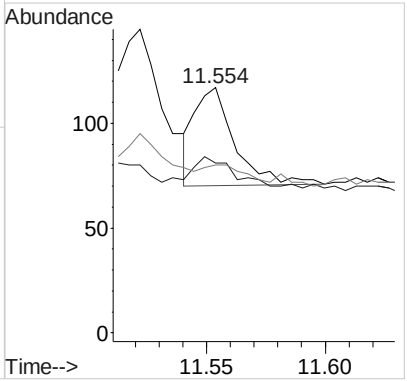


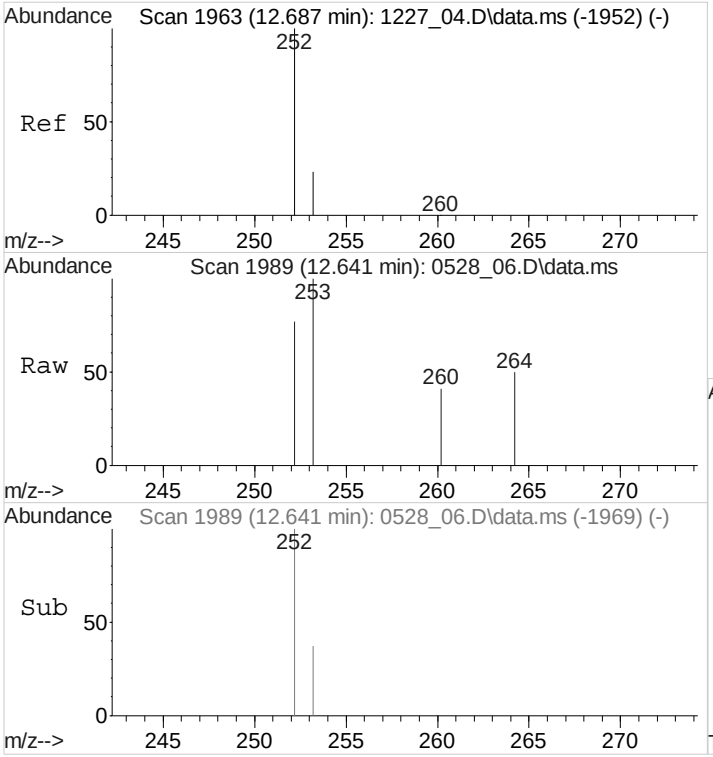


#23
Chrysene
Concen: 0.0040300 ppb
RT: 11.554 min Scan# 1764
Delta R.T. -0.009 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:228 Resp: 55

Ion	Ratio	Lower	Upper
228	100		
226	26.1	9.0	49.0
229	19.6	0.0	39.5

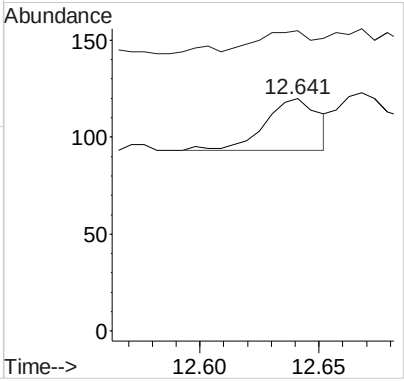


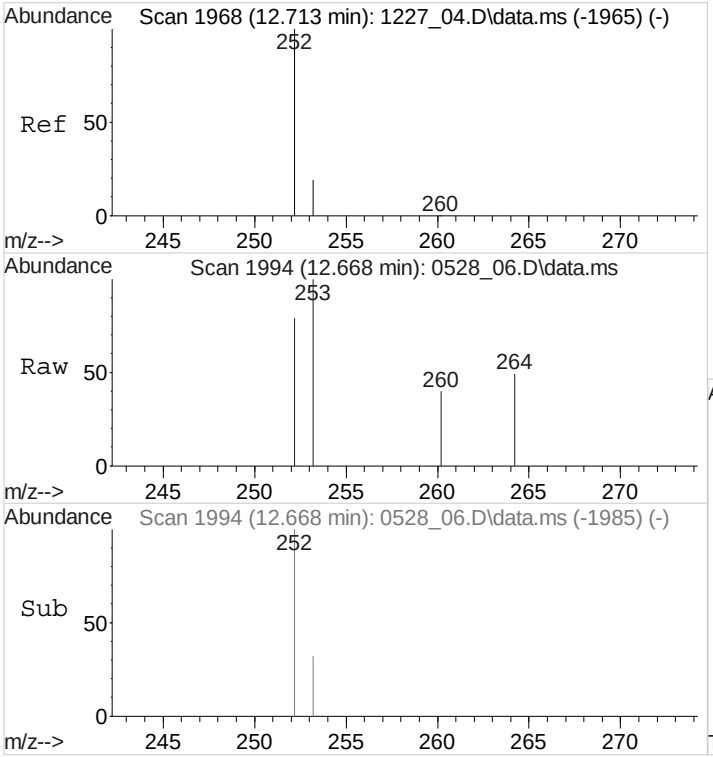


#25
Benzo(b)fluoranthene
Concen: 0.0031796 ppb
RT: 12.641 min Scan# 1989
Delta R.T. 0.005 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:252 Resp: 43

Ion	Ratio	Lower	Upper
252	100		
253	40.7	2.4	42.4

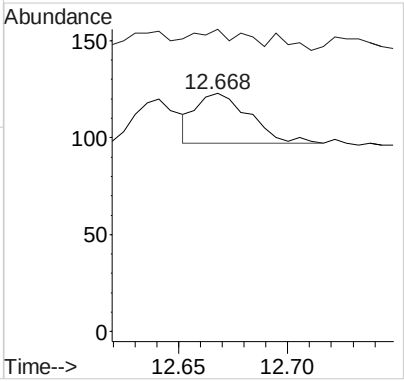


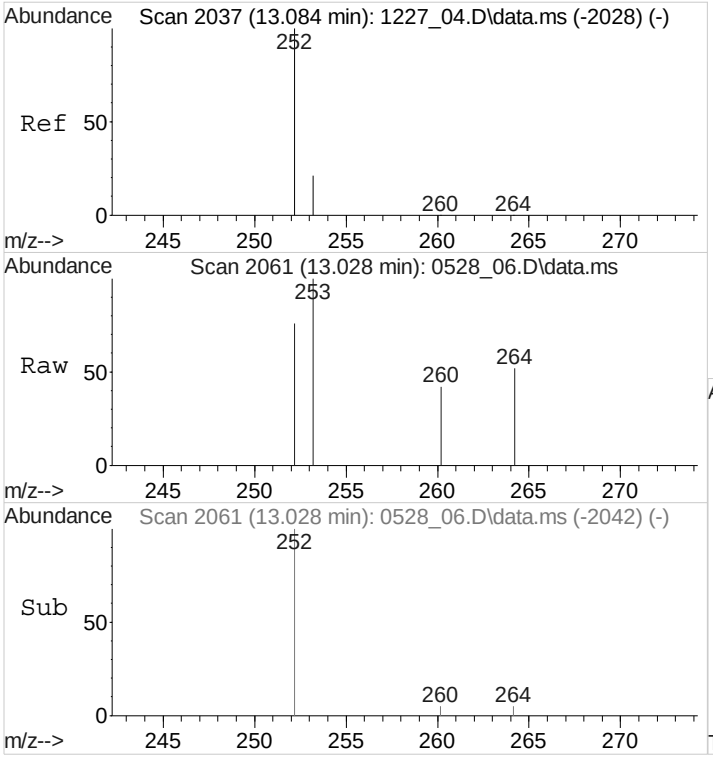


#26
Benzo(k)fluoranthene
Concen: 0.0034527 ppb
RT: 12.668 min Scan# 1994
Delta R.T. -0.000 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:252 Resp: 44

Ion	Ratio	Lower	Upper
252	100		
253	34.6	0.3	40.3

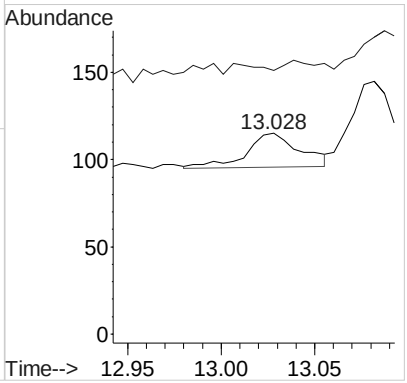


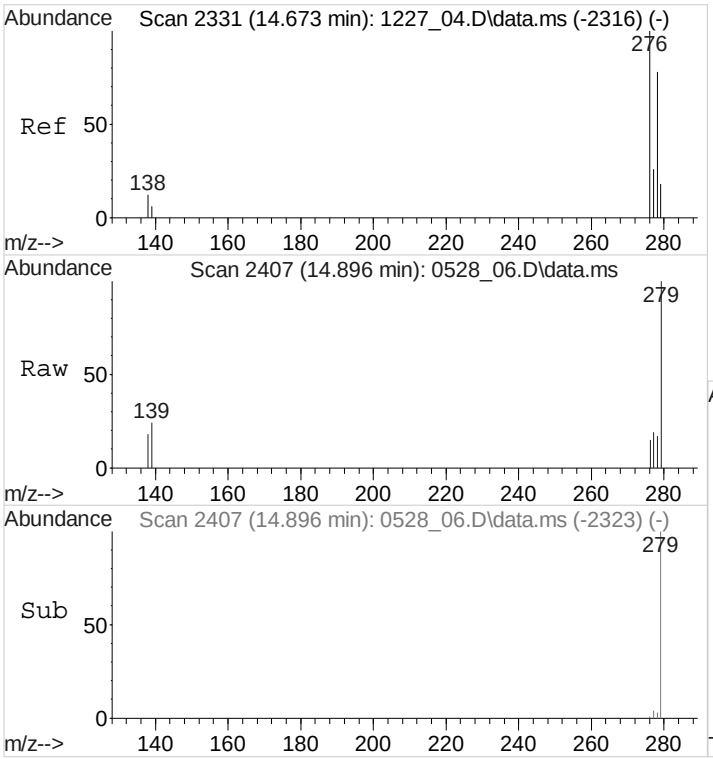


#27
Benzo(a)pyrene
Concen: 0.0034066 ppb
RT: 13.028 min Scan# 2061
Delta R.T. -0.000 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:252 Resp: 39

Ion	Ratio	Lower	Upper
252	100		
253	5.3	1.8	41.8

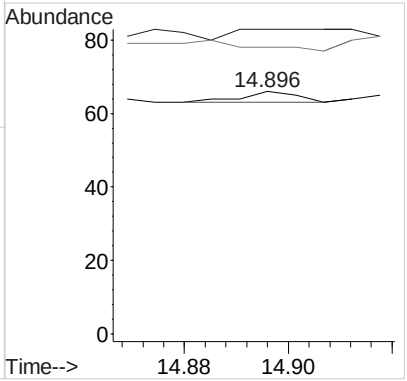


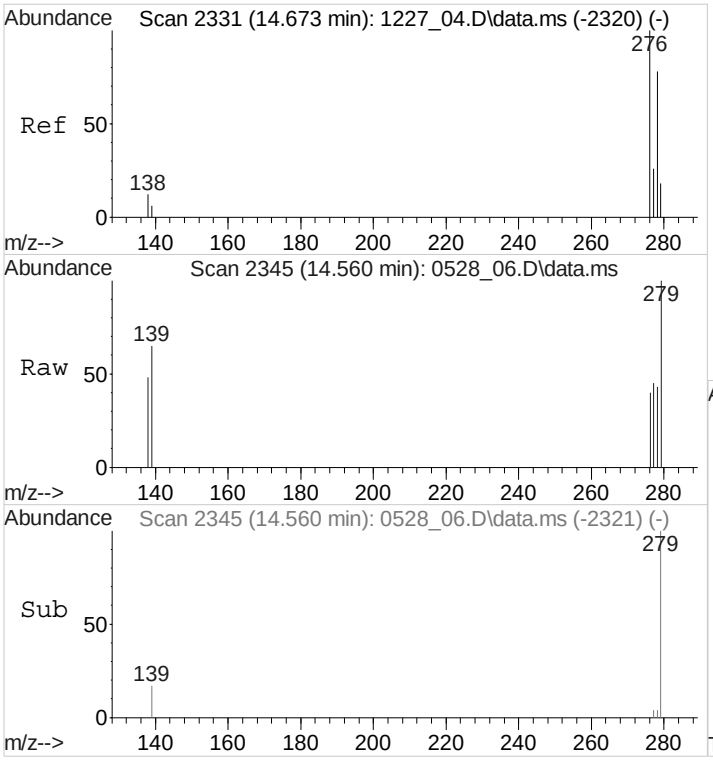


#28
Indeno(1,2,3-cd)pyrene
Concen: 0.0001411 ppb
RT: 14.896 min Scan# 2407
Delta R.T. 0.304 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:276 Resp: 2

Ion	Ratio	Lower	Upper
276	100		
277	33.3	6.2	46.2
138	33.3	9.0	49.0

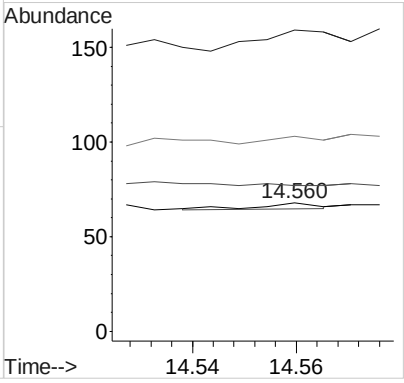


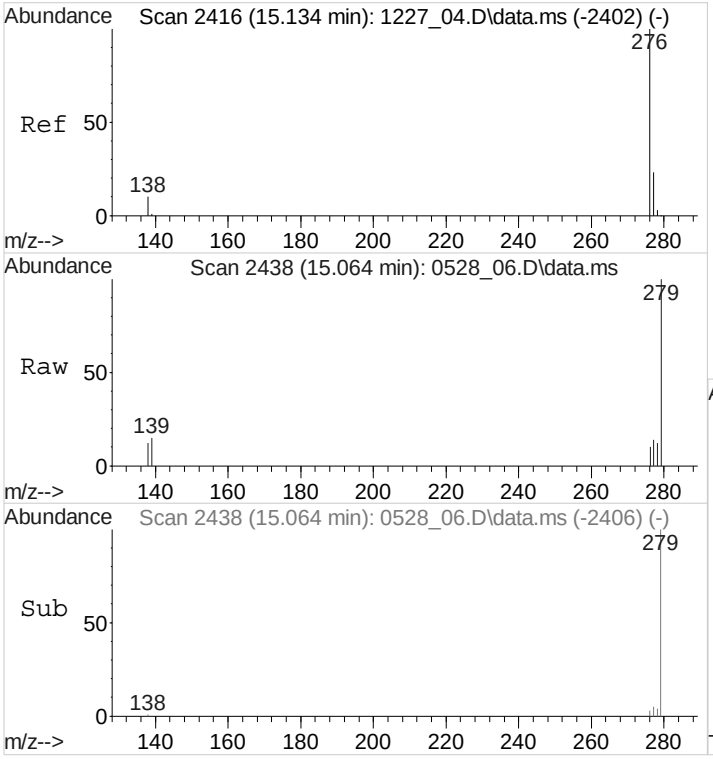


#29
Dibenz(a,h)anthracene
Concen: 0.0002522 ppb
RT: 14.560 min Scan# 2345
Delta R.T. -0.022 min
Lab File: 0528 06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:278 Resp: 3

Ion	Ratio	Lower	Upper
278	100		
279	300.0	3.6	43.6#
139	66.7	0.0	38.9#
138	0.0	11.7	51.7#

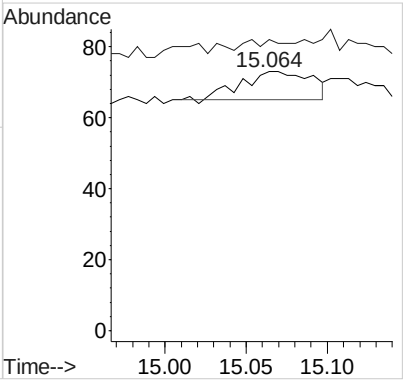




#30
Benzo(g,h,i)perylene
Concen: 0.0020039 ppb
RT: 15.064 min Scan# 2438
Delta R.T. 0.022 min
Lab File: 0528_06.D
Acq: 29 May 2015 1:20 am

Tgt Ion:276 Resp: 24

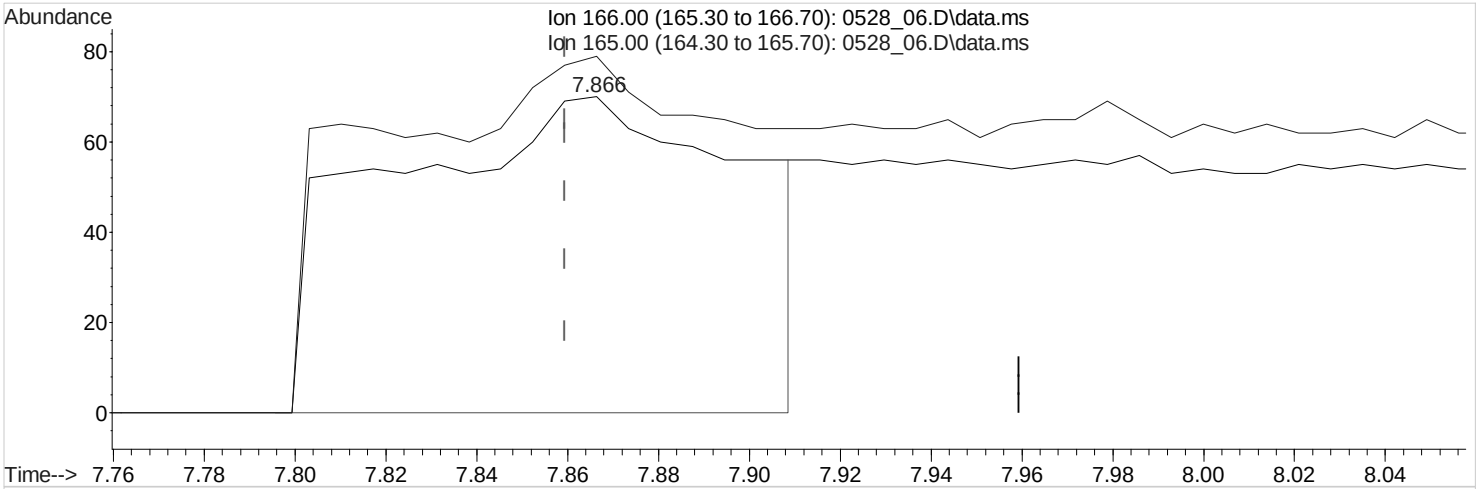
Ion	Ratio	Lower	Upper
276	100		
138	25.0	5.4	45.4

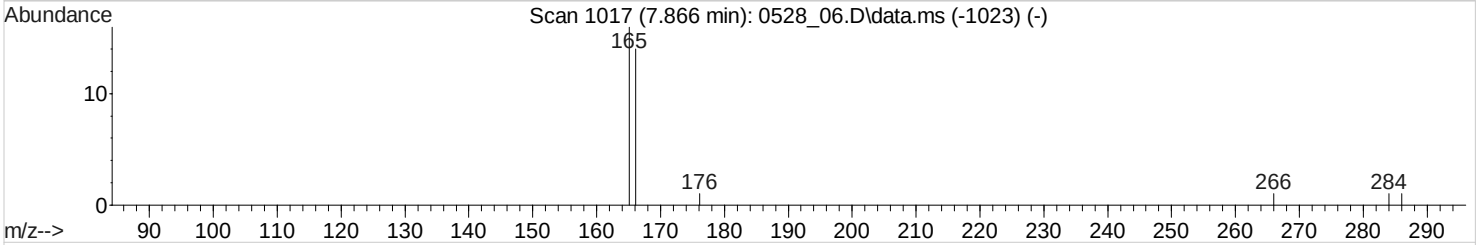


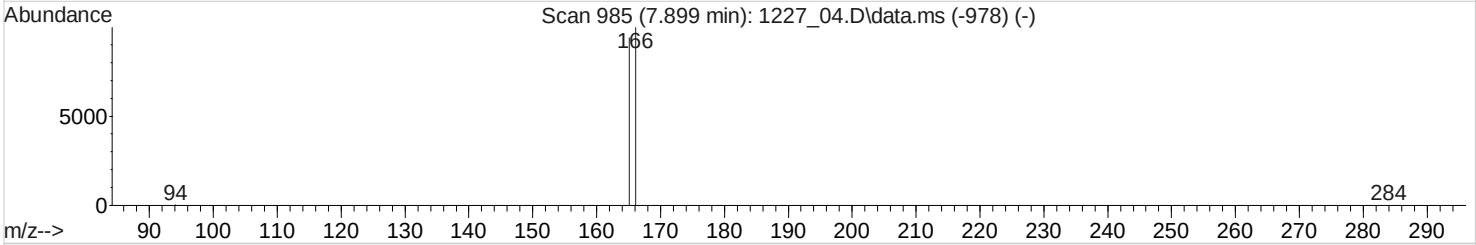
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On    : 29 May 2015   1:20 am
Operator  : 282
Sample    : BLANK 1x WG792025 100-5
Misc      : WATER 15D29868/15D14085
ALS Vial  : 68   Sample Multiplier: 0.05
InstName  : BNAMS13

Quant Time: May 29 07:38:37 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M
```







TIC: 0528_06.D\data.ms

(12) Fluorene (MT)

7.866min (+0.007) 0.0331299 ppb

Qvalue = 86

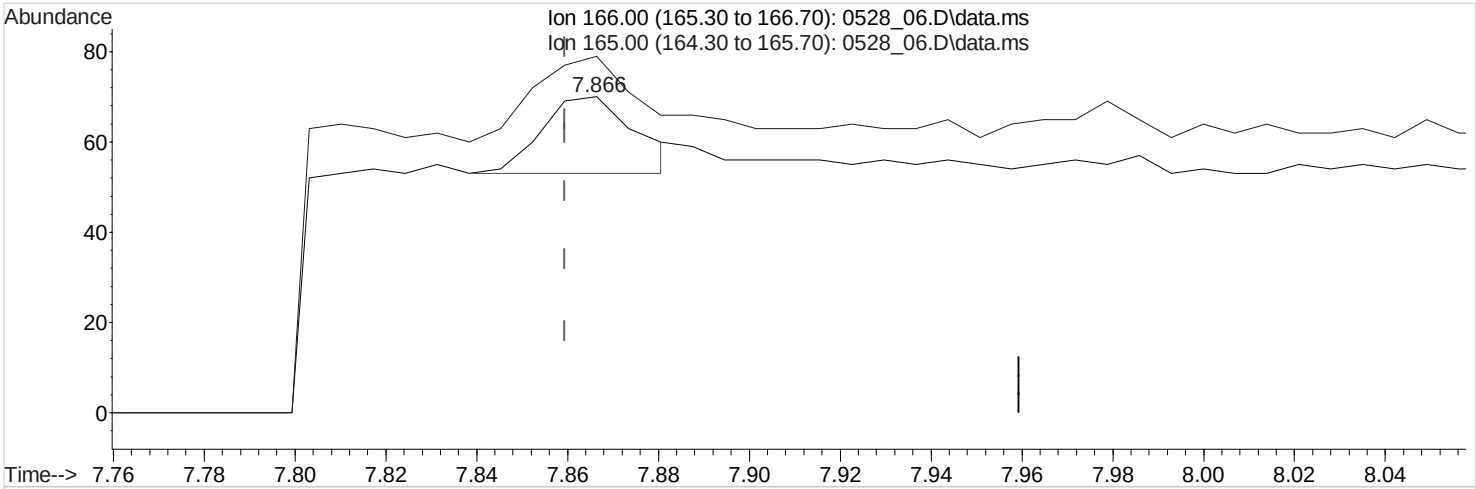
response 368

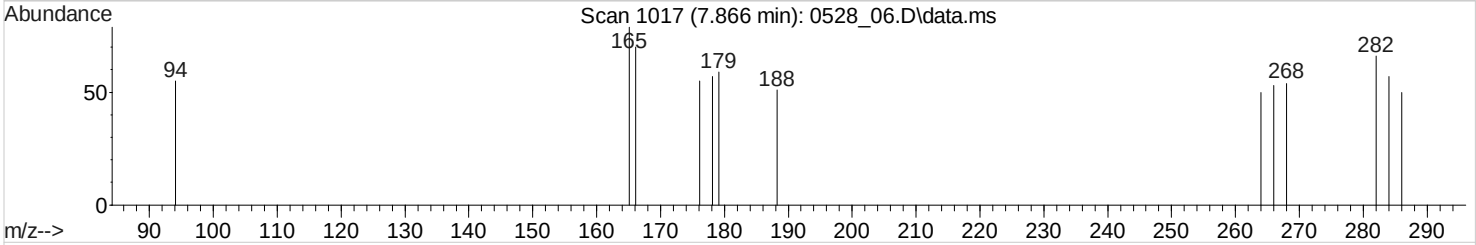
Ion	Exp%	Act%
166.00	100	100
165.00	98.80	112.86
0.00	0.00	0.00
0.00	0.00	0.00

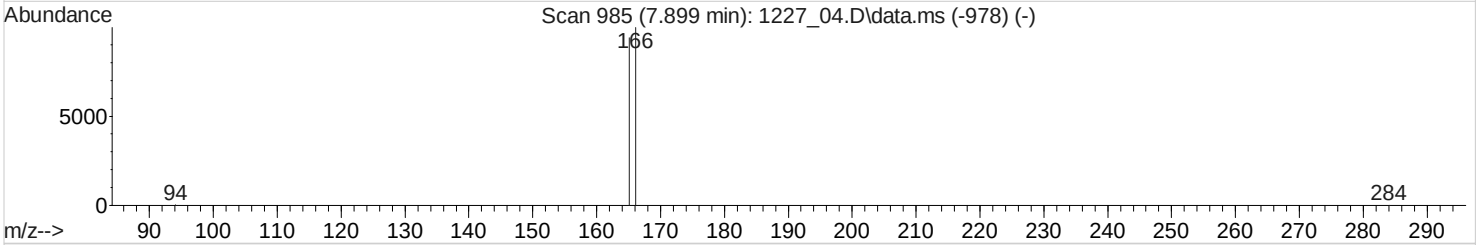
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On    : 29 May 2015   1:20 am
Operator  : 282
Sample    : BLANK 1x WG792025 100-5
Misc      : WATER 15D29868/15D14085
ALS Vial  : 68   Sample Multiplier: 0.05
InstName  : BNAMS13

Quant Time: May 29 07:38:37 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M
```







TIC: 0528_06.D\data.ms

(12) Fluorene (MT)

7.866min (+0.007) 0.0021606 ppb m

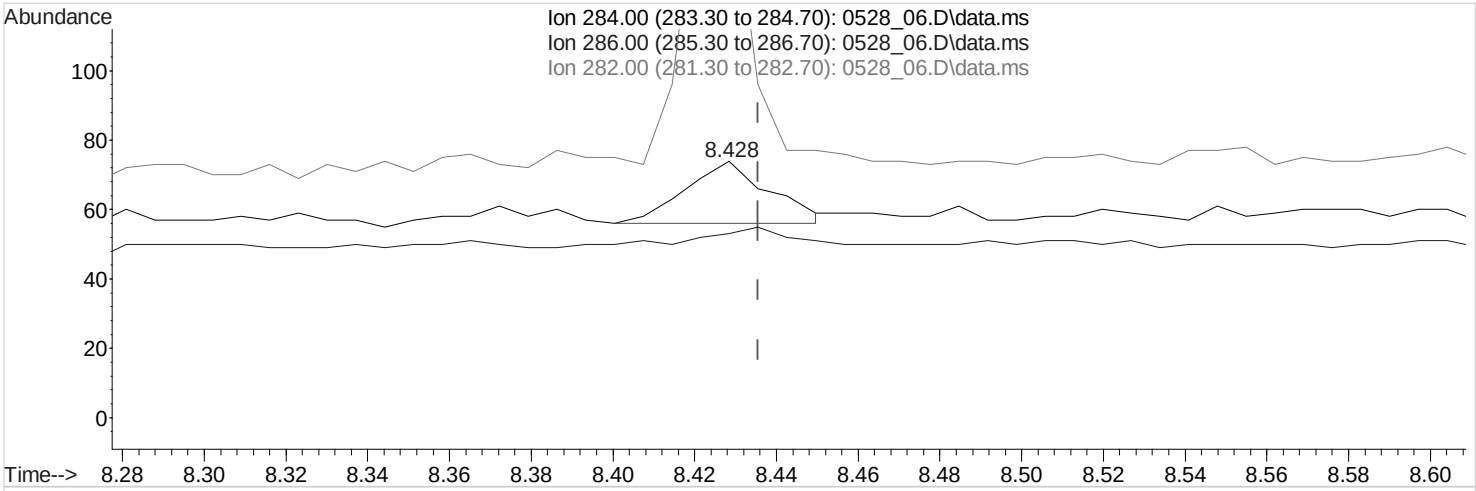
response 24

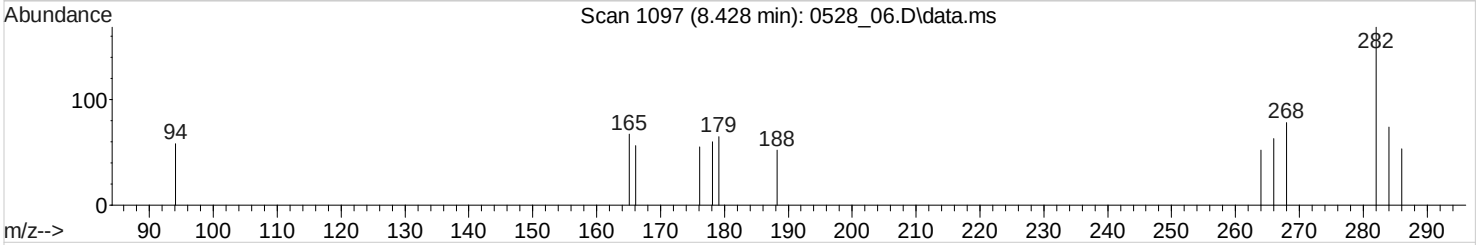
Ion	Exp%	Act%
166.00	100	100
165.00	98.80	112.86
0.00	0.00	0.00
0.00	0.00	0.00

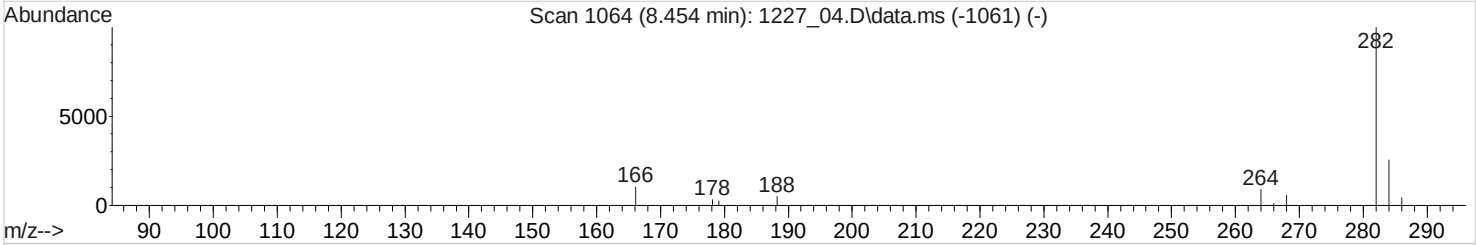
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On : 29 May 2015 1:20 am
Operator : 282
Sample : BLANK 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 68 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 07:38:37 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_06.D\data.ms

(14) Hexachlorobenzene

8.428min (-0.007) 0.0082855 ppb m

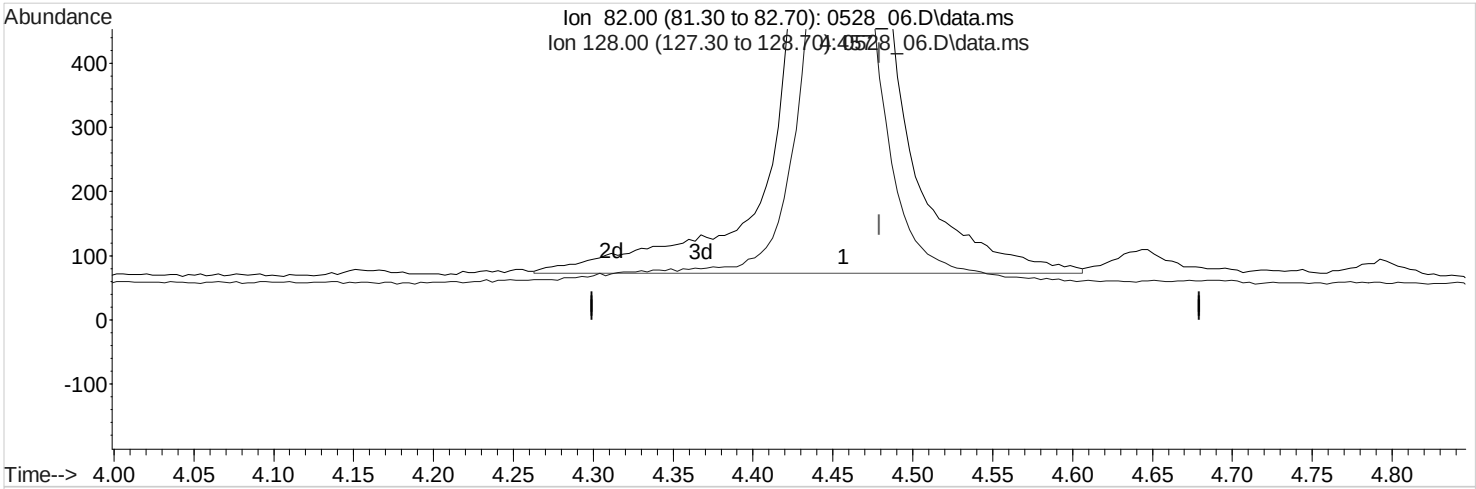
response 26

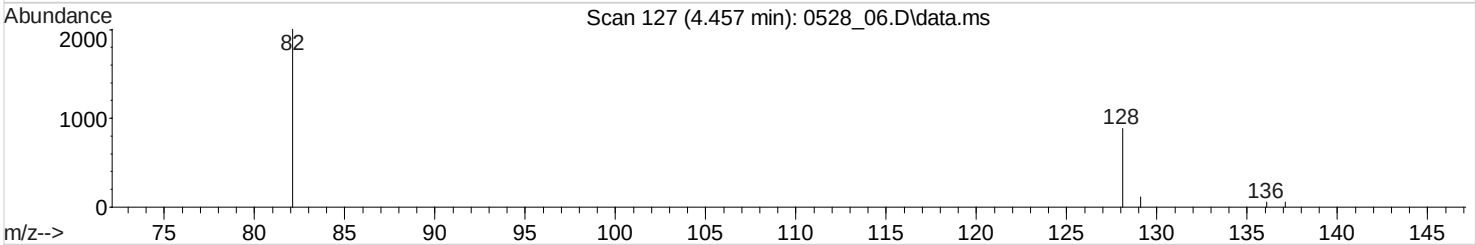
Ion	Exp%	Act%
284.00	100	100
286.00	74.50	71.62
282.00	56.90	228.38#
0.00	0.00	0.00

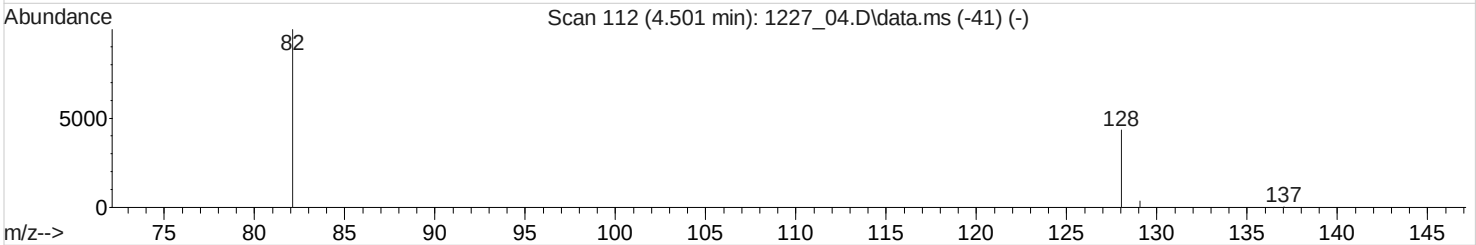
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 06.D
Acq On : 29 May 2015 1:20 am
Operator : 282
Sample : BLANK 1x WG792025 100-5
Misc : WATER 15D29868/15D14085
ALS Vial : 68 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: May 29 07:42:14 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_06.D\data.ms

(2) Nitrobenzene-d5 (S)

4.457min (-0.022) 1.4303519 ppb m

response 5800

Ion	Exp%	Act%
82.00	100	100
128.00	47.90	44.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 10.D
Acq On : 29 May 2015 2:46 am
Operator : 282
Sample : L767115-02 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 72 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:01:38 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

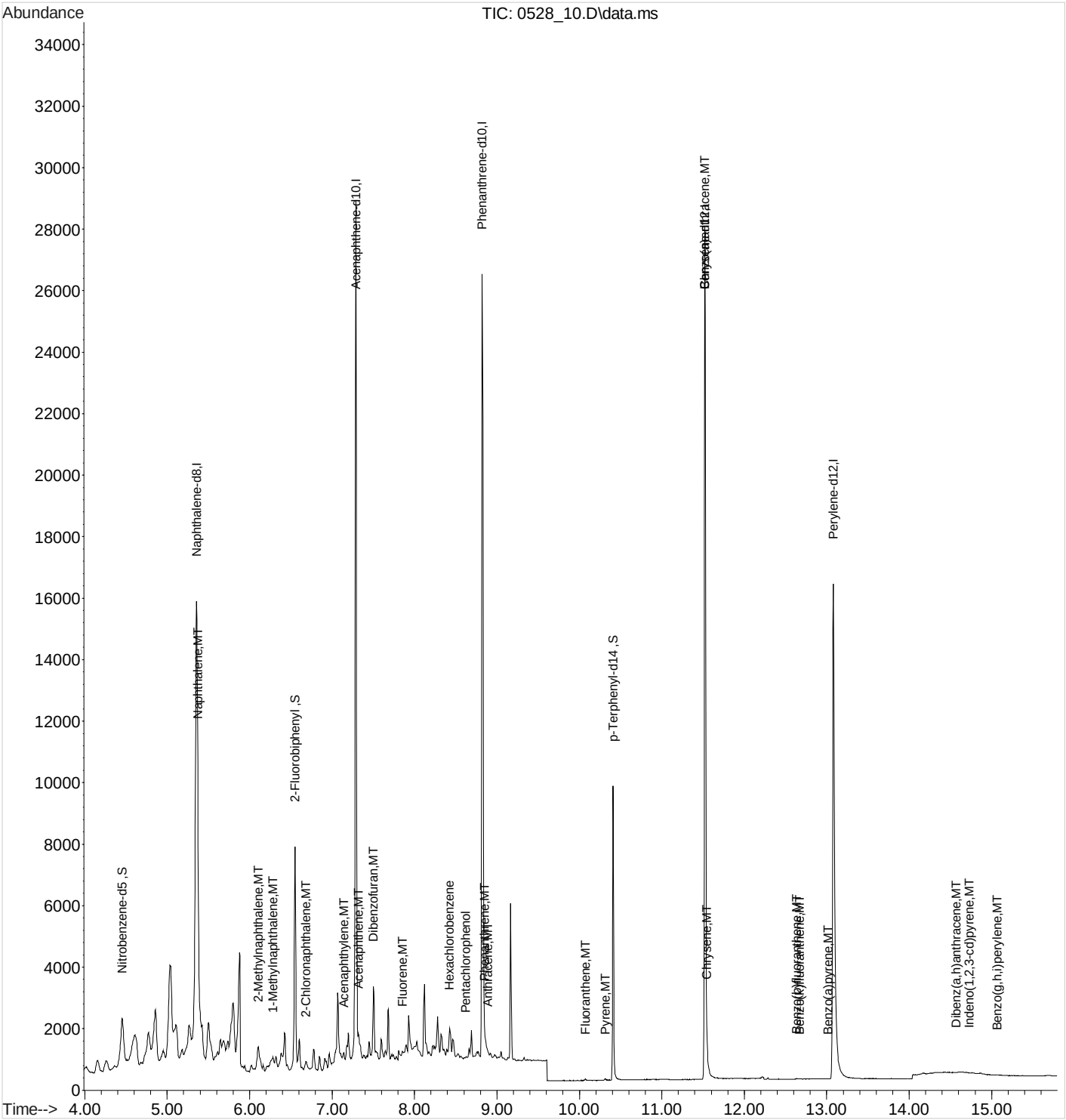
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.356	136	26302m	40.0000000 ppb	-0.02
6) Acenaphthene-d10	7.287	164	15921	40.0000000 ppb	-0.01
13) Phenanthrene-d10	8.822	188	27340	40.0000000 ppb	0.00
19) Chrysene-d12	11.522	240	25287	40.0000000 ppb	0.00
24) Perylene-d12	13.082	264	24141	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.453	82	3529	0.9491716 ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 47.46%		
7) 2-Fluorobiphenyl	6.550	172	6723	0.6550204 ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 32.75%#		
21) p-Terphenyl-d14	10.410	244	7109	0.6639342 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 33.20%#		
Target Compounds					Qvalue
3) Naphthalene	5.370	128	2079	0.1674576 ppb #	1
4) 2-Methylnaphthalene	6.104	142	907m	0.1069056 ppb	
5) 1-Methylnaphthalene	6.284	142	468	0.0587737 ppb	86
8) 2-Chloronaphthalene	6.683	162	139	0.0152333 ppb #	14
9) Acenaphthylene	7.144	152	56m	0.0042246 ppb	
10) Acenaphthene	7.321	153	287	0.0308755 ppb	92
11) Dibenzofuran	7.502	168	2051	0.1717911 ppb	88
12) Fluorene	7.852	166	42m	0.0041091 ppb	
14) Hexachlorobenzene	8.421	284	17m	0.0053011 ppb	
15) Pentachlorophenol	8.618	266	1	1.1162782 ppb #	51
16) Phenanthrene	8.850	178	100	0.0067361 ppb	82
17) Anthracene	8.892	178	16m	0.0011237 ppb	
18) Fluoranthene	10.071	202	45	0.0028040 ppb	89
20) Pyrene	10.313	202	40	0.0030882 ppb	93
22) Benzo(a)anthracene	11.522	228	94	0.0070753 ppb	70
23) Chrysene	11.545	228	23m	0.0018239 ppb	
25) Benzo(b)fluoranthene	12.635	252	31	0.0024865 ppb	78
26) Benzo(k)fluoranthene	12.668	252	15m	0.0012768 ppb	
27) Benzo(a)pyrene	13.017	252	17	0.0016107 ppb	76
28) Indeno(1,2,3-cd)pyrene	14.728	276	3	0.0002296 ppb	89
29) Dibenz(a,h)anthracene	14.570	278	2	0.0001824 ppb #	1
30) Benzo(g,h,i)perylene	15.064	276	14	0.0012680 ppb #	31

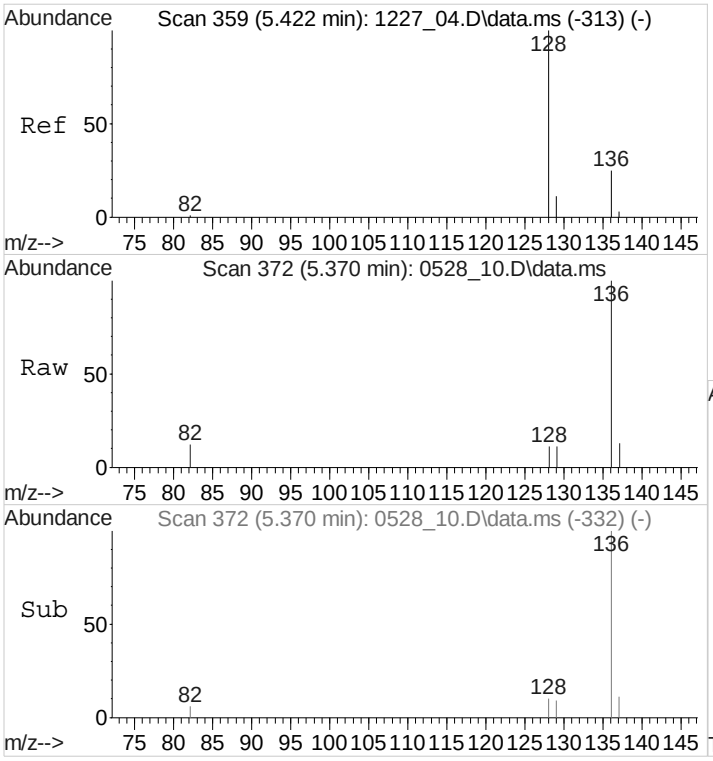
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 10.D
Acq On : 29 May 2015 2:46 am
Operator : 282
Sample : L767115-02 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 72 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:01:38 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

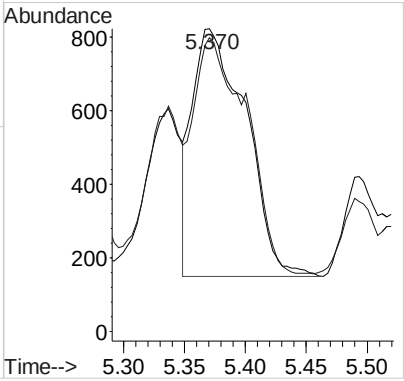


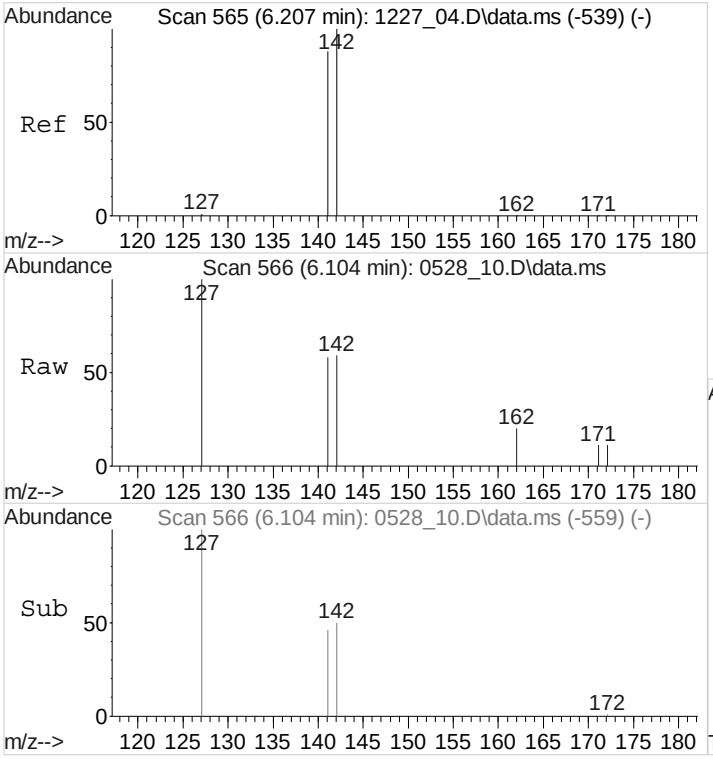


#3
Naphthalene
Concen: 0.1674576 ppb
RT: 5.370 min Scan# 372
Delta R.T. -0.030 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:128 Resp: 2079

Ion	Ratio	Lower	Upper
128	100		
129	93.9	0.0	30.9#

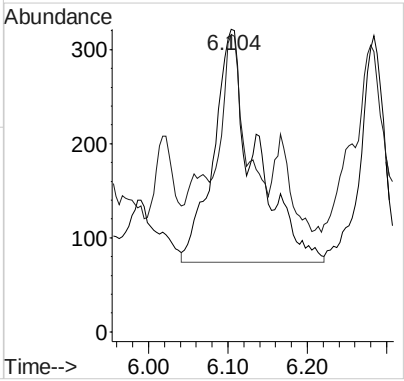


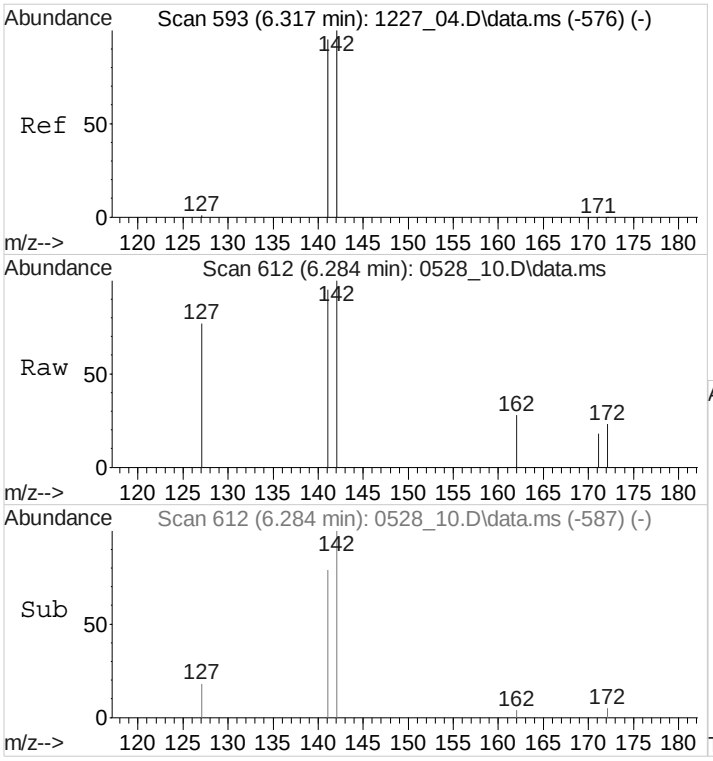


#4
2-Methylnaphthalene
Concen: 0.1069056 ppb m
RT: 6.104 min Scan# 566
Delta R.T. -0.074 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:142 Resp: 907

Ion	Ratio	Lower	Upper
142	100		
141	98.1	67.1	107.1

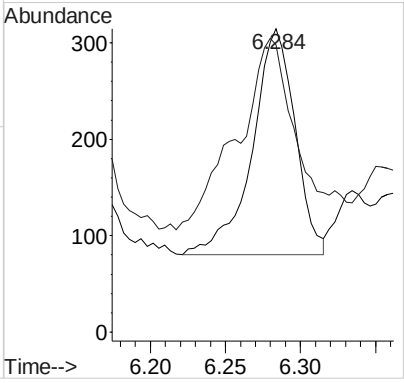


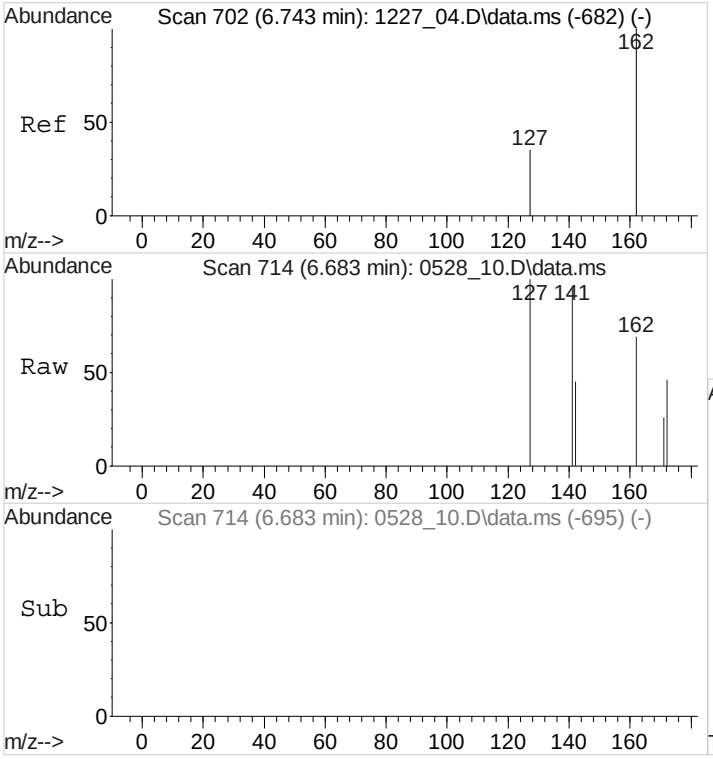


#5
1-Methylnaphthalene
Concen: 0.0587737 ppb
RT: 6.284 min Scan# 612
Delta R.T. -0.004 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:142 Resp: 468

Ion	Ratio	Lower	Upper
142	100		
141	78.3	71.6	111.6

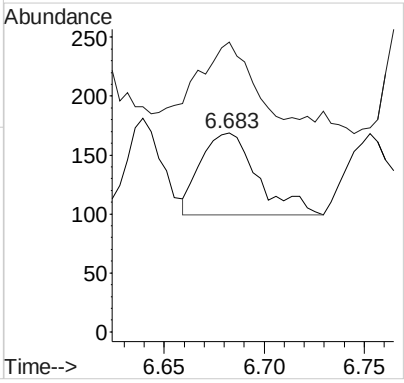


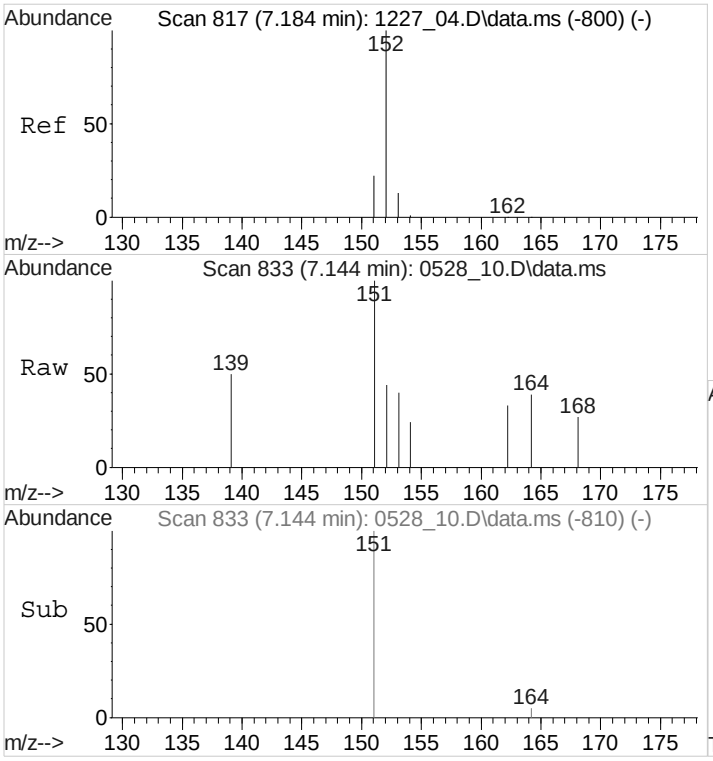


#8
2-Chloronaphthalene
Concen: 0.0152333 ppb
RT: 6.683 min Scan# 714
Delta R.T. -0.028 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:162 Resp: 139

Ion	Ratio	Lower	Upper
162	100		
127	84.3	14.7	54.7#

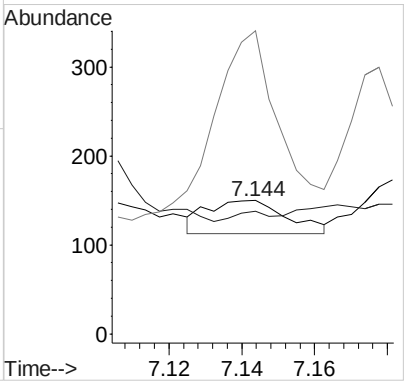


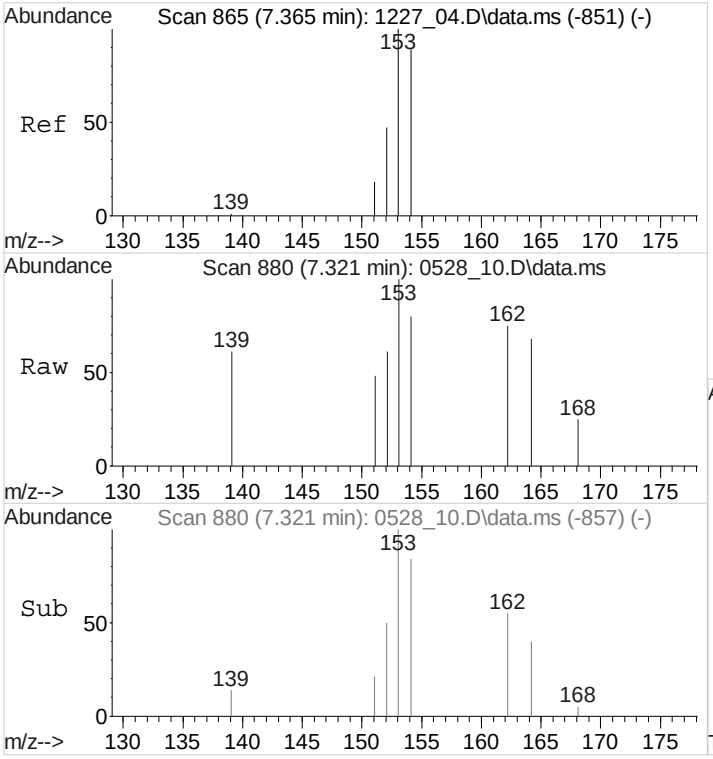


#9
Acenaphthylene
Concen: 0.0042246 ppb m
RT: 7.144 min Scan# 833
Delta R.T. -0.011 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:152 Resp: 56

Ion	Ratio	Lower	Upper
152	100		
153	92.0	0.0	33.0#
151	227.3	0.8	40.8#

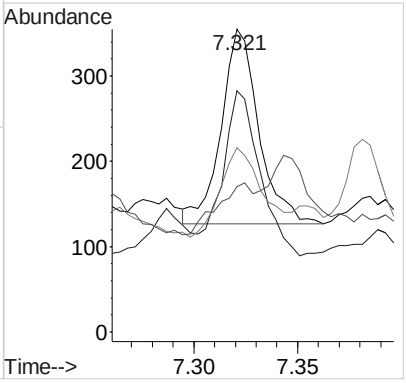


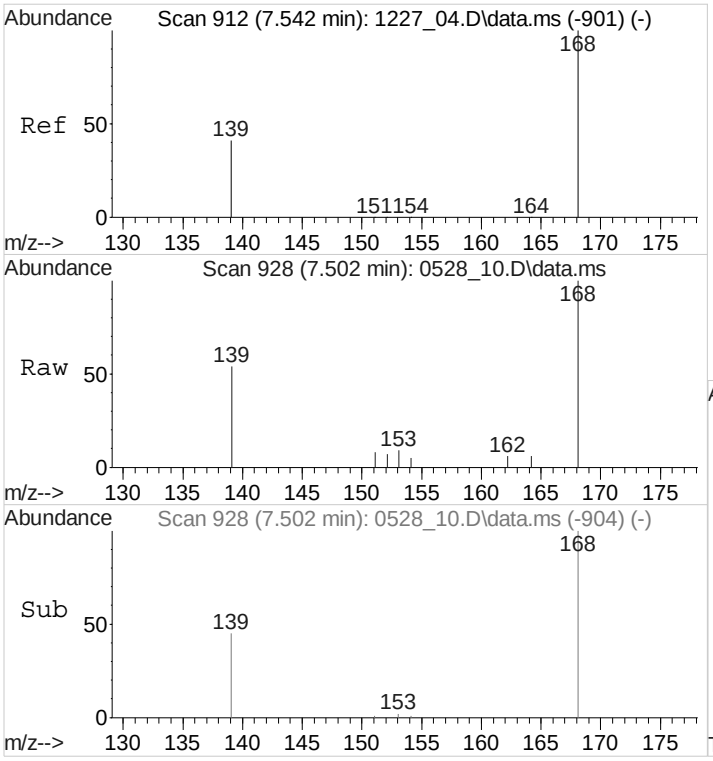


#10
Acenaphthene
Concen: 0.0308755 ppb
RT: 7.321 min Scan# 880
Delta R.T. -0.011 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:153 Resp: 287

Ion	Ratio	Lower	Upper
153	100		
154	82.9	71.0	111.0
152	43.4	27.0	67.0
151	24.6	0.0	37.6

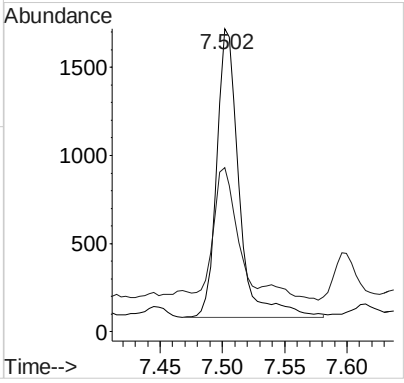


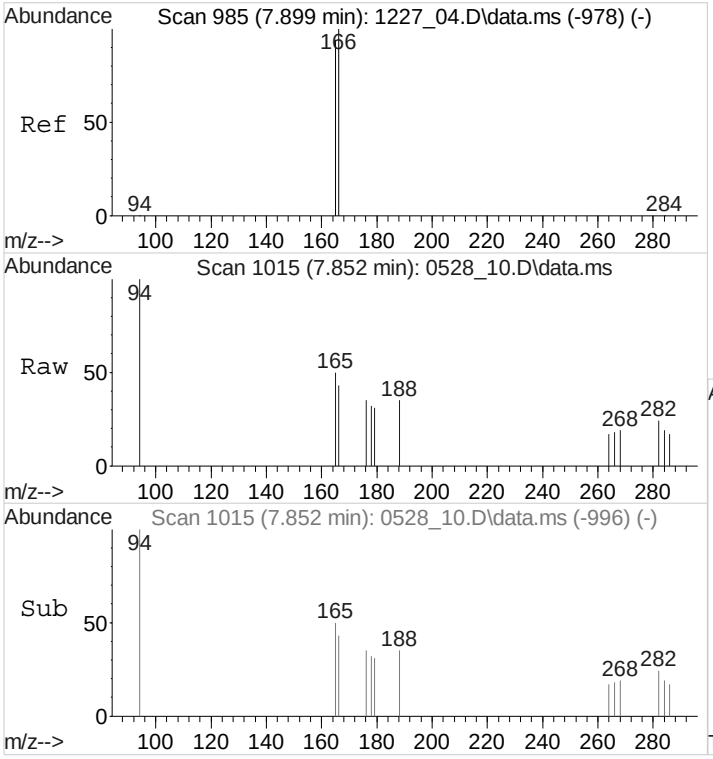


#11
Dibenzofuran
Concen: 0.1717911 ppb
RT: 7.502 min Scan# 928
Delta R.T. -0.008 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:168 Resp: 2051

Ion	Ratio	Lower	Upper
168	100		
139	44.8	17.4	57.4

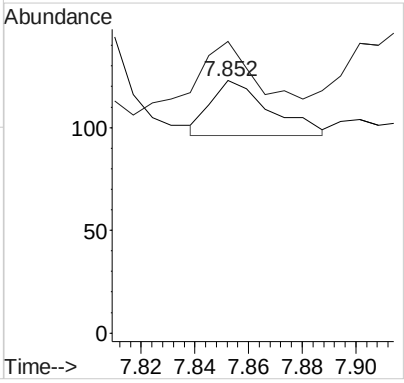


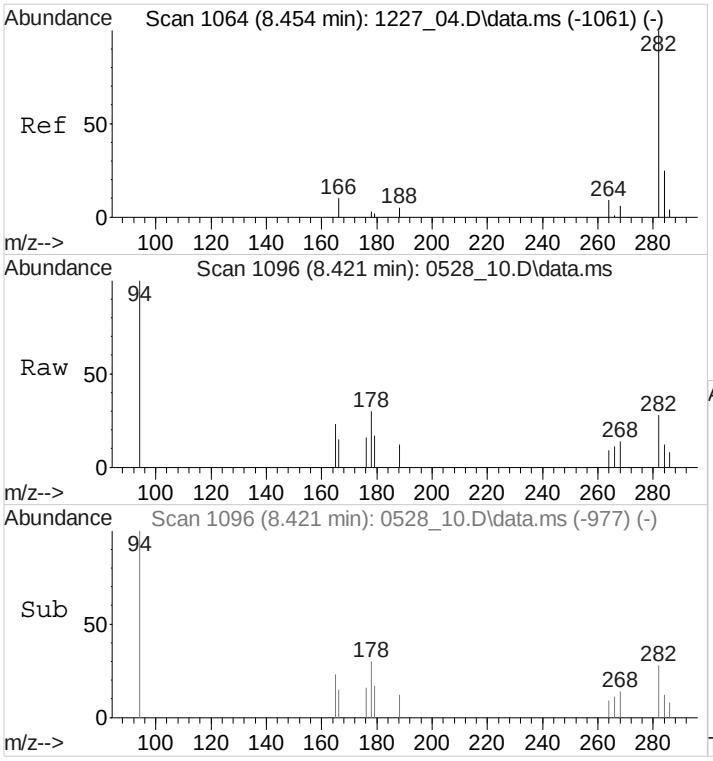


#12
Fluorene
Concen: 0.0041091 ppb m
RT: 7.852 min Scan# 1015
Delta R.T. -0.007 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:166 Resp: 42

Ion	Ratio	Lower	Upper
166	100		
165	115.4	78.8	118.8

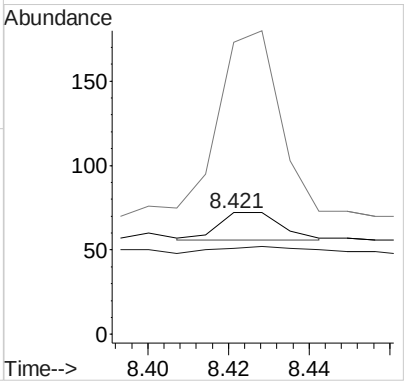


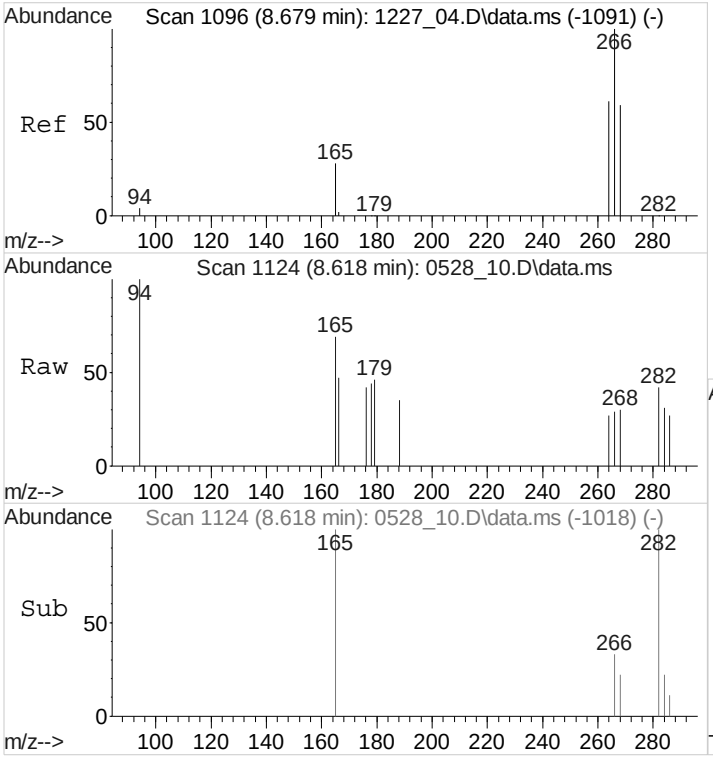


#14
Hexachlorobenzene
Concen: 0.0053011 ppb m
RT: 8.421 min Scan# 1096
Delta R.T. -0.014 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:284 Resp: 17

Ion	Ratio	Lower	Upper
284	100		
286	70.8	59.6	89.4
282	240.3	45.5	68.3#

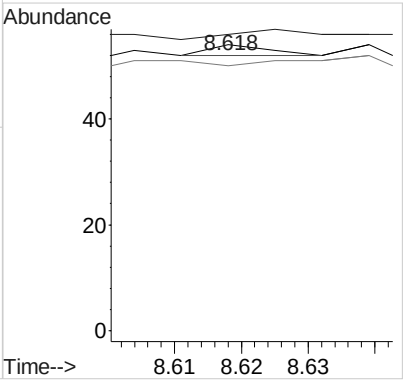


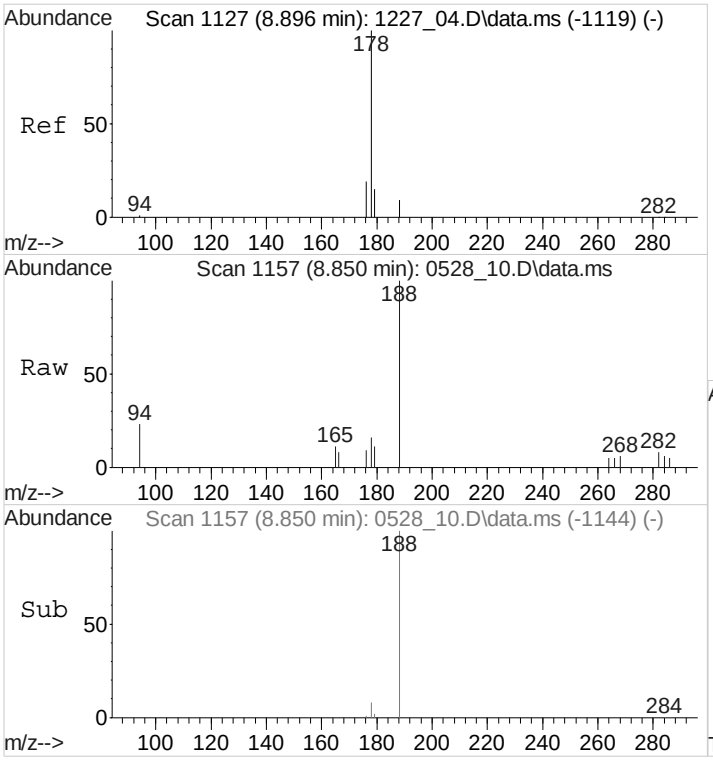


#15
Pentachlorophenol
Concen: 1.1162782 ppb
RT: 8.618 min Scan# 1124
Delta R.T. -0.007 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:266 Resp: 1

Ion	Ratio	Lower	Upper
266	100		
268	50.0	48.4	72.6
264	0.0	51.8	77.6#

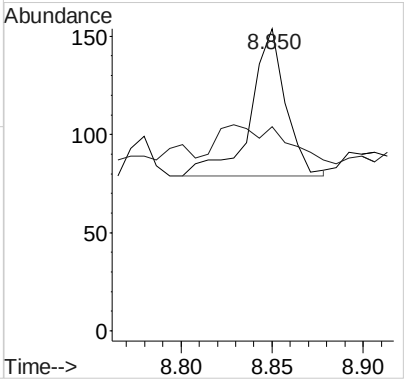


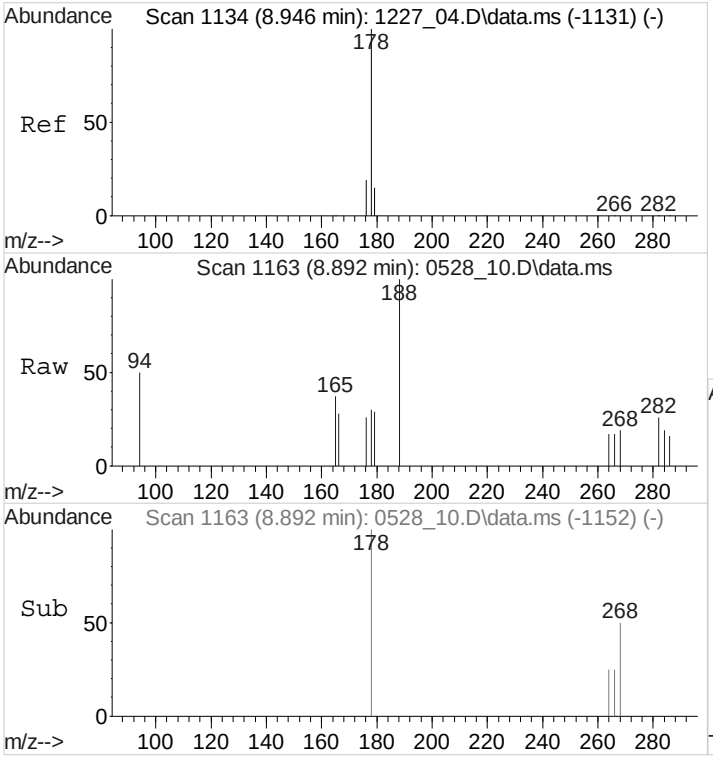


#16
Phenanthrene
Concen: 0.0067361 ppb
RT: 8.850 min Scan# 1157
Delta R.T. -0.007 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:178 Resp: 100

Ion	Ratio	Lower	Upper
178	100		
179	22.7	0.0	35.0

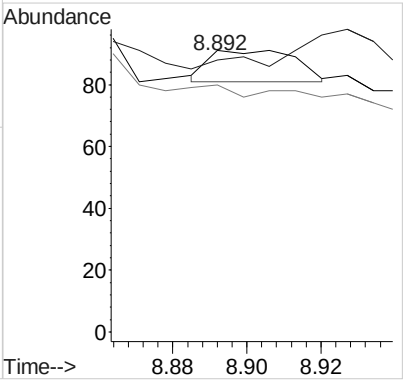


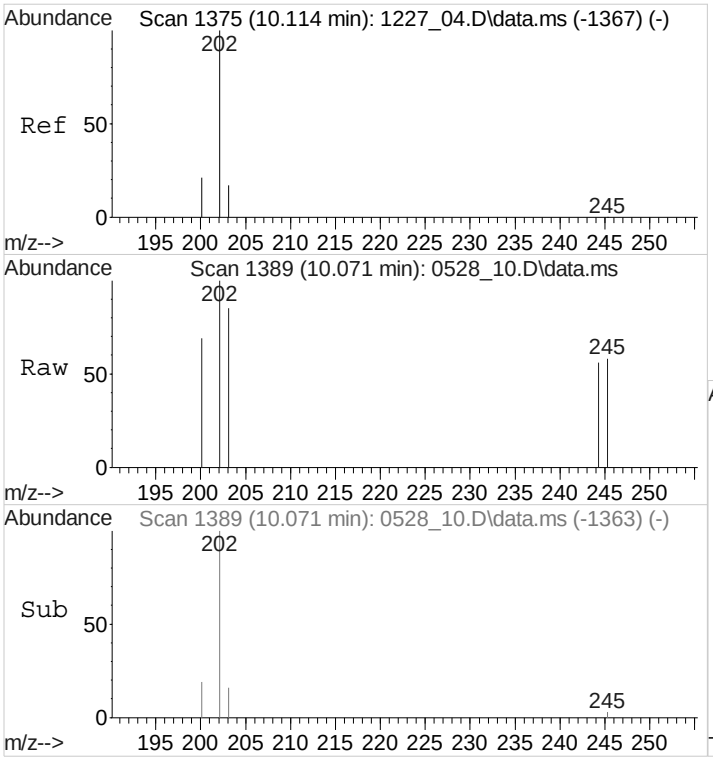


#17
Anthracene
Concen: 0.0011237 ppb m
RT: 8.892 min Scan# 1163
Delta R.T. -0.021 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:178 Resp: 16

Ion	Ratio	Lower	Upper
178	100		
179	96.7	0.0	35.5#
176	87.9	0.0	38.1#

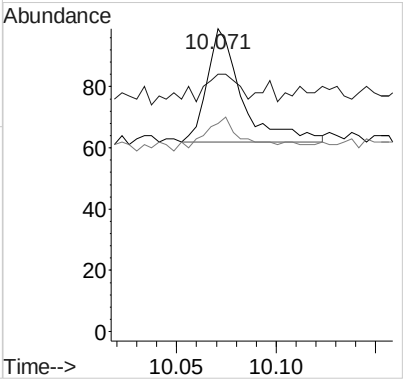


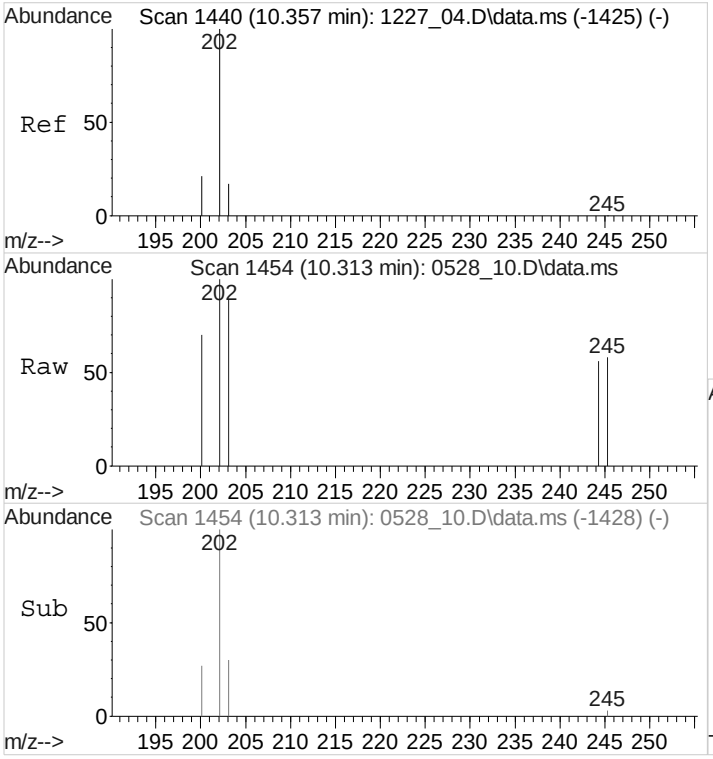


#18
Fluoranthene
Concen: 0.0028040 ppb
RT: 10.071 min Scan# 1389
Delta R.T. -0.004 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:202 Resp: 45

Ion	Ratio	Lower	Upper
202	100		
203	21.6	0.0	36.7
200	16.2	0.8	40.8

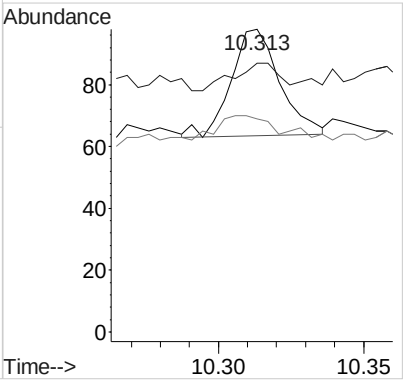


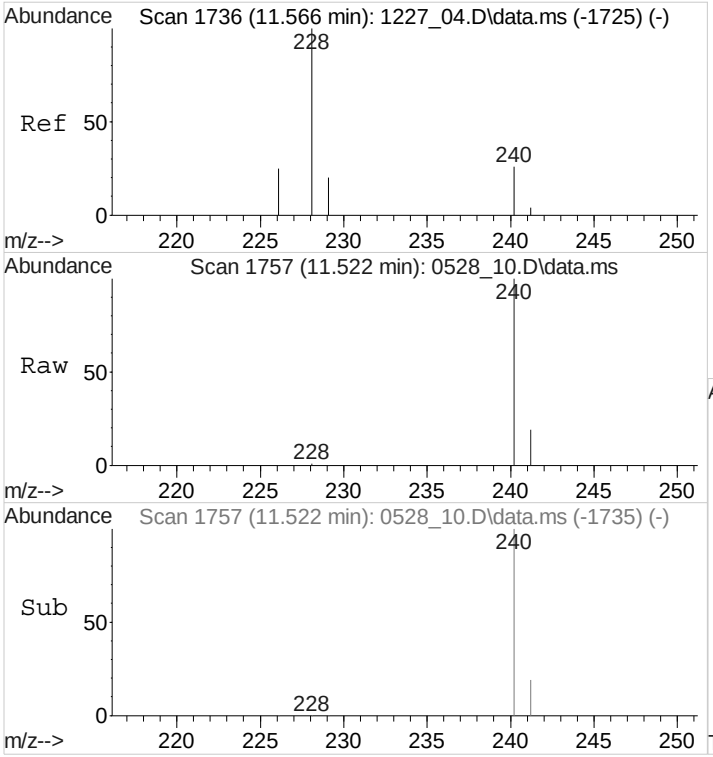


#20
Pyrene
Concen: 0.0030882 ppb
RT: 10.313 min Scan# 1454
Delta R.T. -0.004 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:202 Resp: 40

Ion	Ratio	Lower	Upper
202	100		
203	20.6	0.0	37.2
200	17.6	0.7	40.7

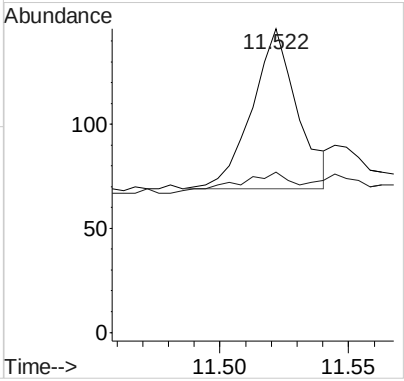


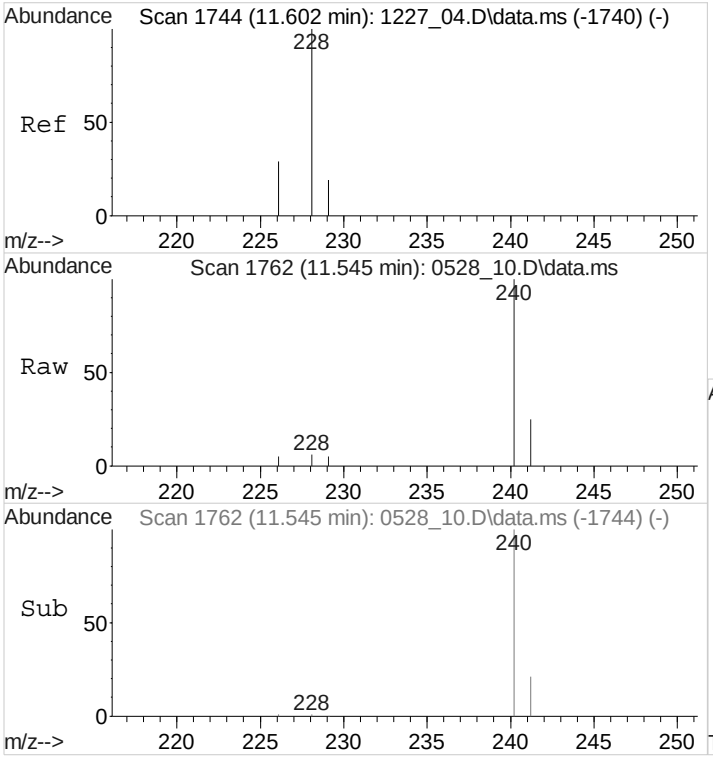


#22
Benzo(a)anthracene
Concen: 0.0070753 ppb
RT: 11.522 min Scan# 1757
Delta R.T. -0.000 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:228 Resp: 94

Ion	Ratio	Lower	Upper
228	100		
226	11.7	7.6	47.6

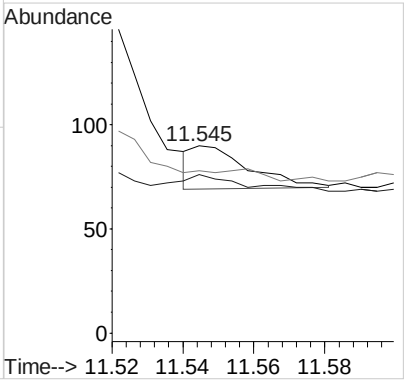


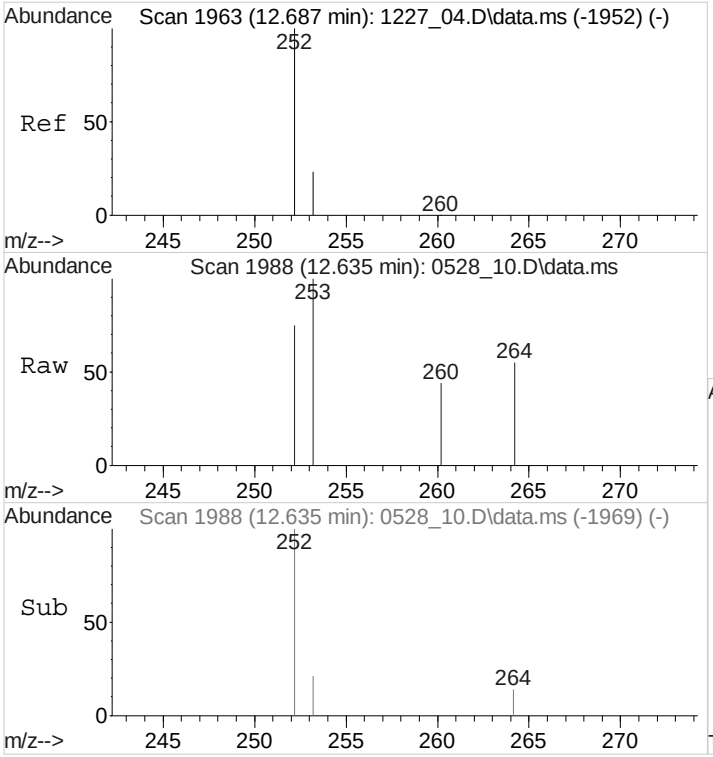


#23
Chrysene
Concen: 0.0018239 ppb m
RT: 11.545 min Scan# 1762
Delta R.T. -0.018 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:228 Resp: 23

Ion	Ratio	Lower	Upper
228	100		
226	84.4	9.0	49.0#
229	86.7	0.0	39.5#

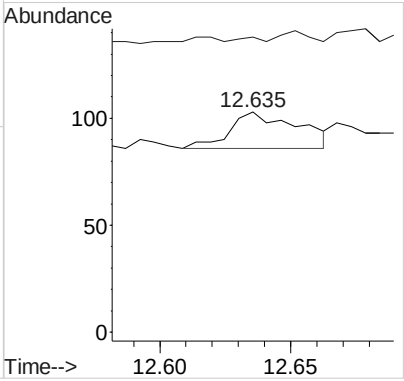


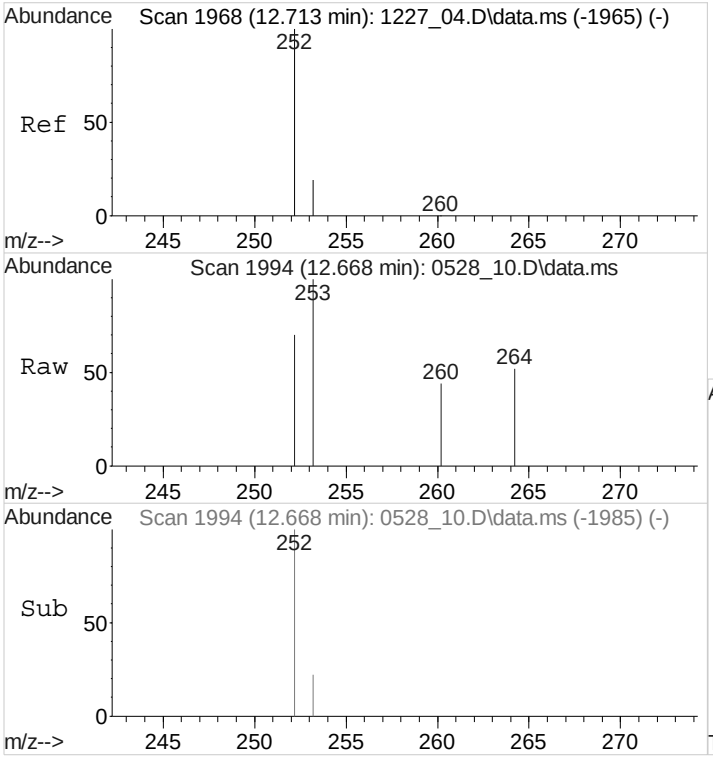


#25
Benzo(b)fluoranthene
Concen: 0.0024865 ppb
RT: 12.635 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:252 Resp: 31

Ion	Ratio	Lower	Upper
252	100		
253	11.8	2.4	42.4

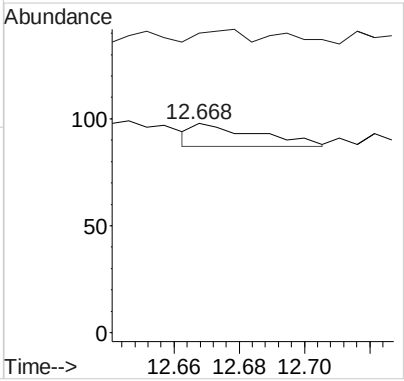


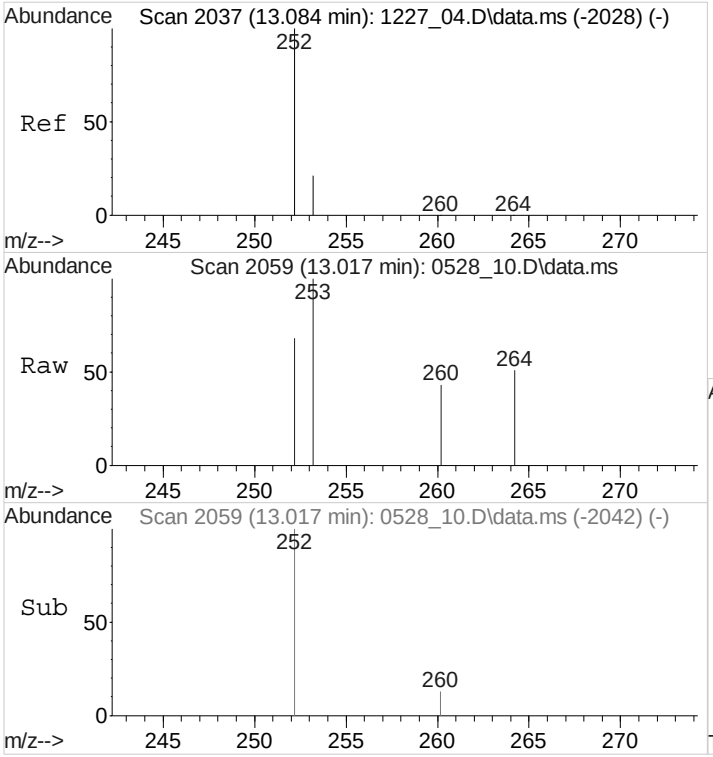


#26
Benzo(k)fluoranthene
Concen: 0.0012768 ppb m
RT: 12.668 min Scan# 1994
Delta R.T. -0.000 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:252 Resp: 15

Ion	Ratio	Lower	Upper
252	100		
253	142.9	0.3	40.3#

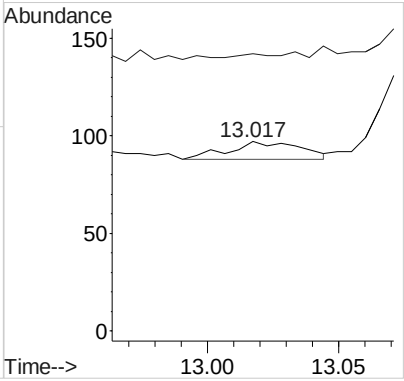


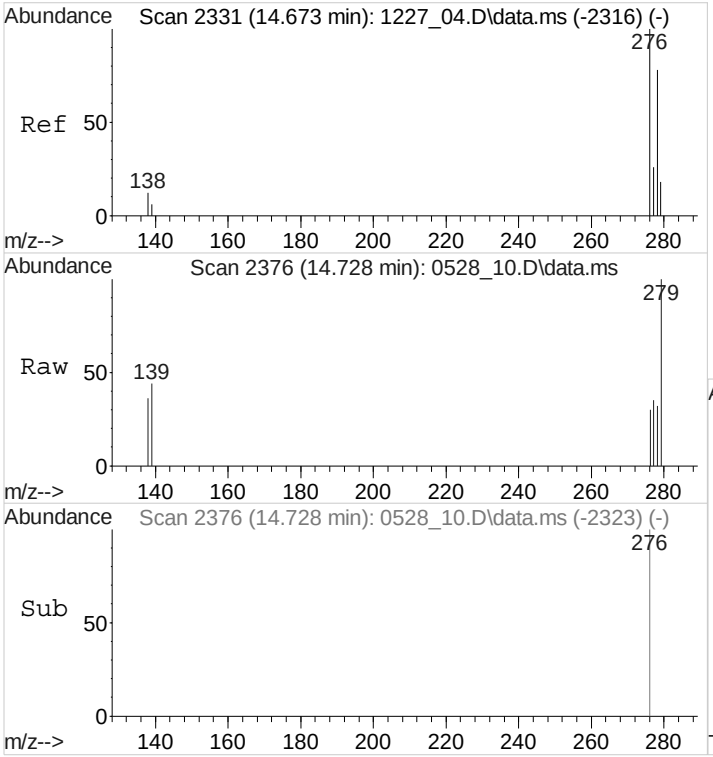


#27
Benzo(a)pyrene
Concen: 0.0016107 ppb
RT: 13.017 min Scan# 2059
Delta R.T. -0.011 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:252 Resp: 17

Ion	Ratio	Lower	Upper
252	100		
253	33.3	1.8	41.8

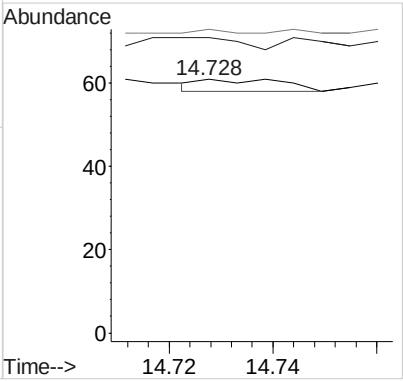


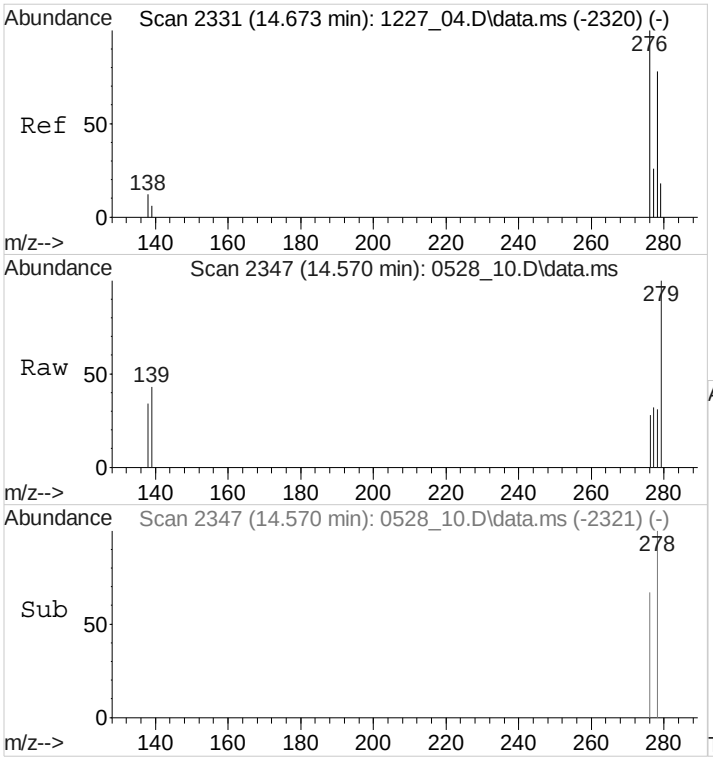


#28
Indeno(1,2,3-cd)pyrene
Concen: 0.0002296 ppb
RT: 14.728 min Scan# 2376
Delta R.T. 0.135 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:276 Resp: 3

Ion	Ratio	Lower	Upper
276	100		
277	33.3	6.2	46.2
138	33.3	9.0	49.0

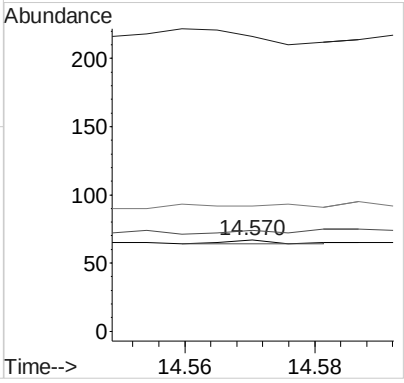


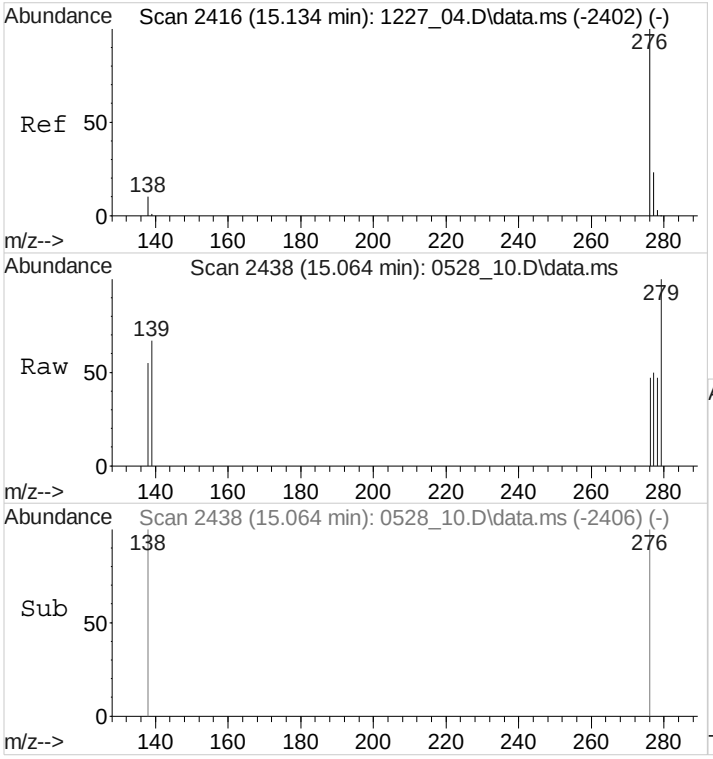


#29
Dibenz(a,h)anthracene
Concen: 0.0001824 ppb
RT: 14.570 min Scan# 2347
Delta R.T. -0.011 min
Lab File: 0528 10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:278 Resp: 2

Ion	Ratio	Lower	Upper
278	100		
279	133.3	3.6	43.6#
139	33.3	0.0	38.9
138	100.0	11.7	51.7#

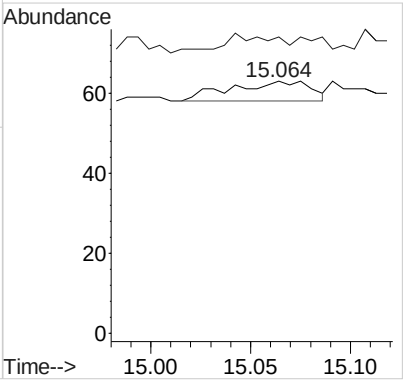




#30
Benzo(g,h,i)perylene
Concen: 0.0012680 ppb
RT: 15.064 min Scan# 2438
Delta R.T. 0.022 min
Lab File: 0528_10.D
Acq: 29 May 2015 2:46 am

Tgt Ion:276 Resp: 14

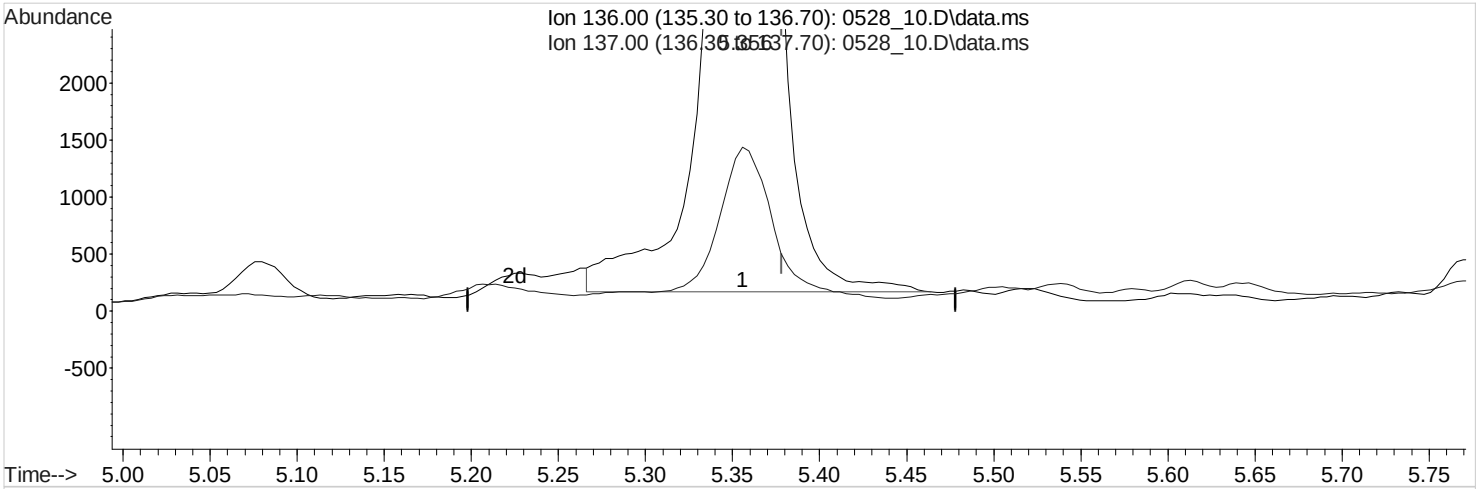
Ion	Ratio	Lower	Upper
276	100		
138	60.0	5.4	45.4#

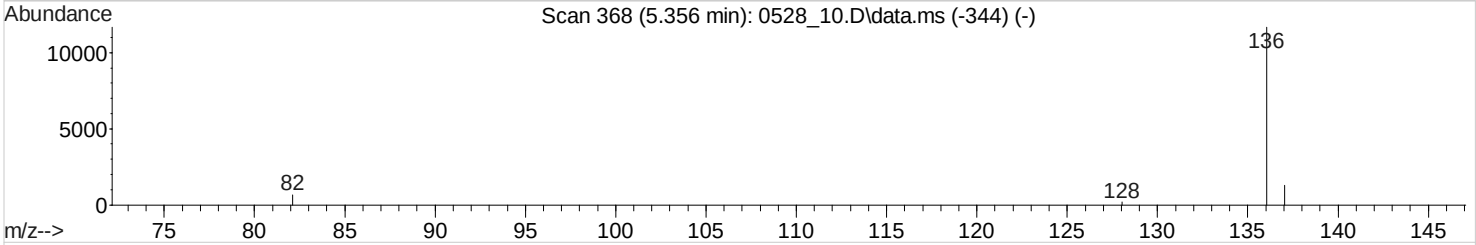


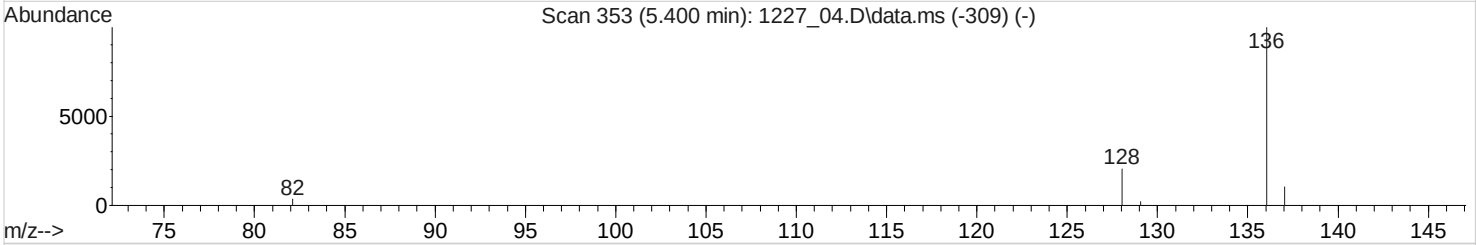
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 10.D
Acq On : 29 May 2015 2:46 am
Operator : 282
Sample : L767115-02 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 72 Sample Multiplier: 0.056
InstName : BNAMS13

Quant Time: May 29 07:38:53 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_10.D\data.ms

(1) Naphthalene-d8 (I)

5.356min (-0.023) 40.0000000 ppb

Qvalue = 100

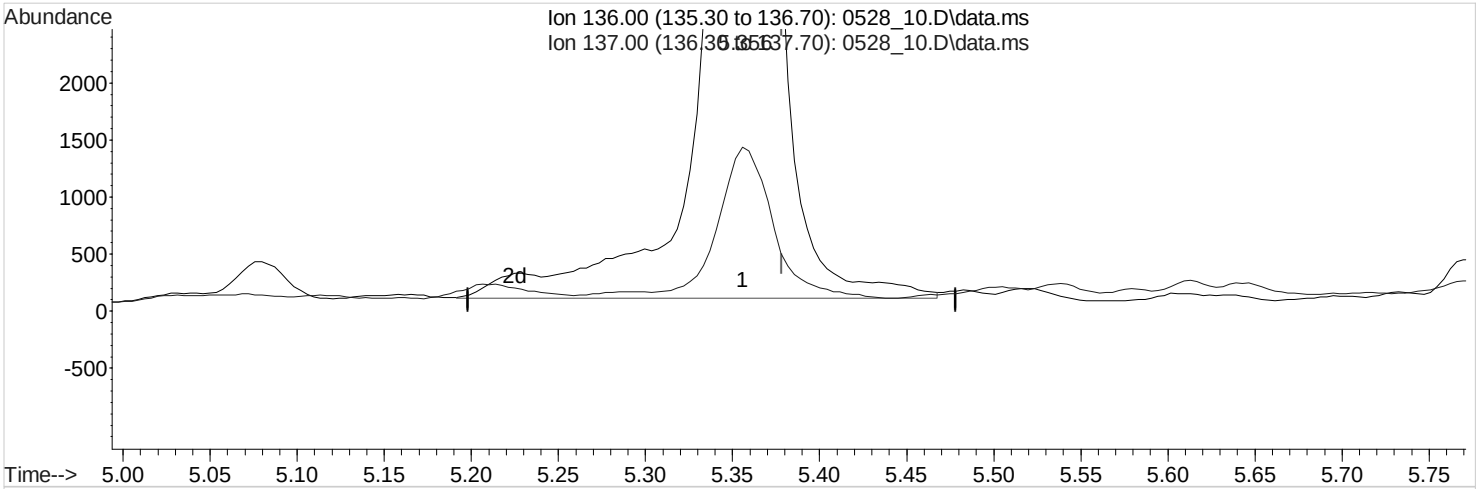
response 24904

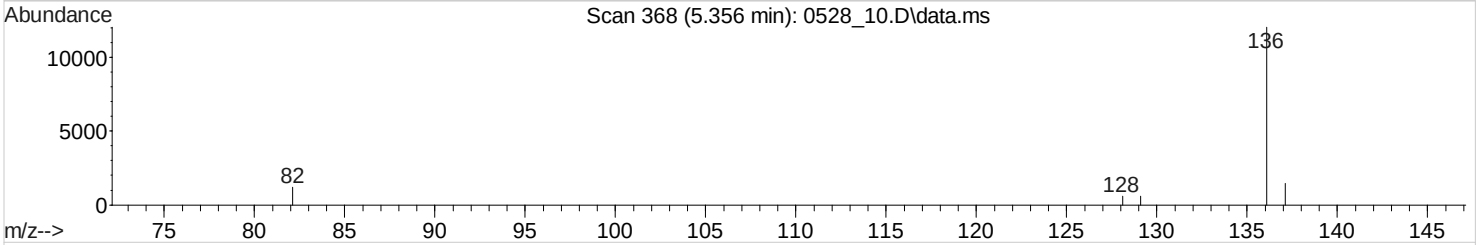
Ion	Exp%	Act%
136.00	100	100
137.00	10.80	10.89
0.00	0.00	0.00
0.00	0.00	0.00

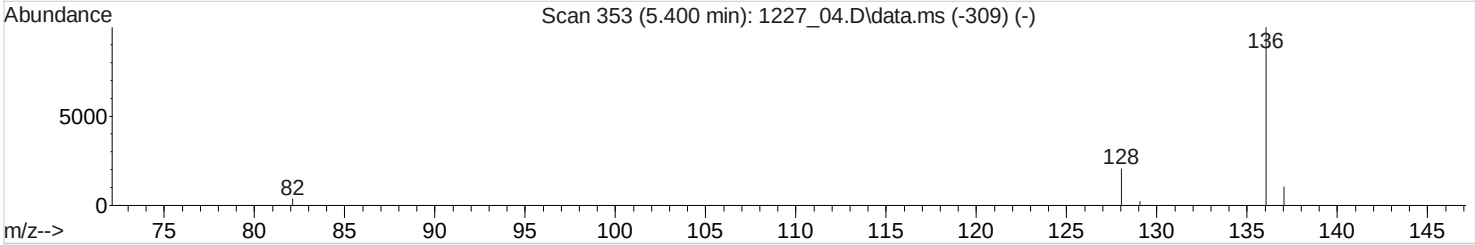
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 10.D
Acq On : 29 May 2015 2:46 am
Operator : 282
Sample : L767115-02 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 72 Sample Multiplier: 0.056
InstName : BNAMS13

Quant Time: May 29 07:38:53 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_10.D\data.ms

(1) Naphthalene-d8 (I)

5.356min (-0.023) 40.0000000 ppb m

response 26302

Ion	Exp%	Act%
136.00	100	100
137.00	10.80	11.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 11.D
Acq On : 29 May 2015 3:08 am
Operator : 282
Sample : L767115-05 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 73 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:02:55 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

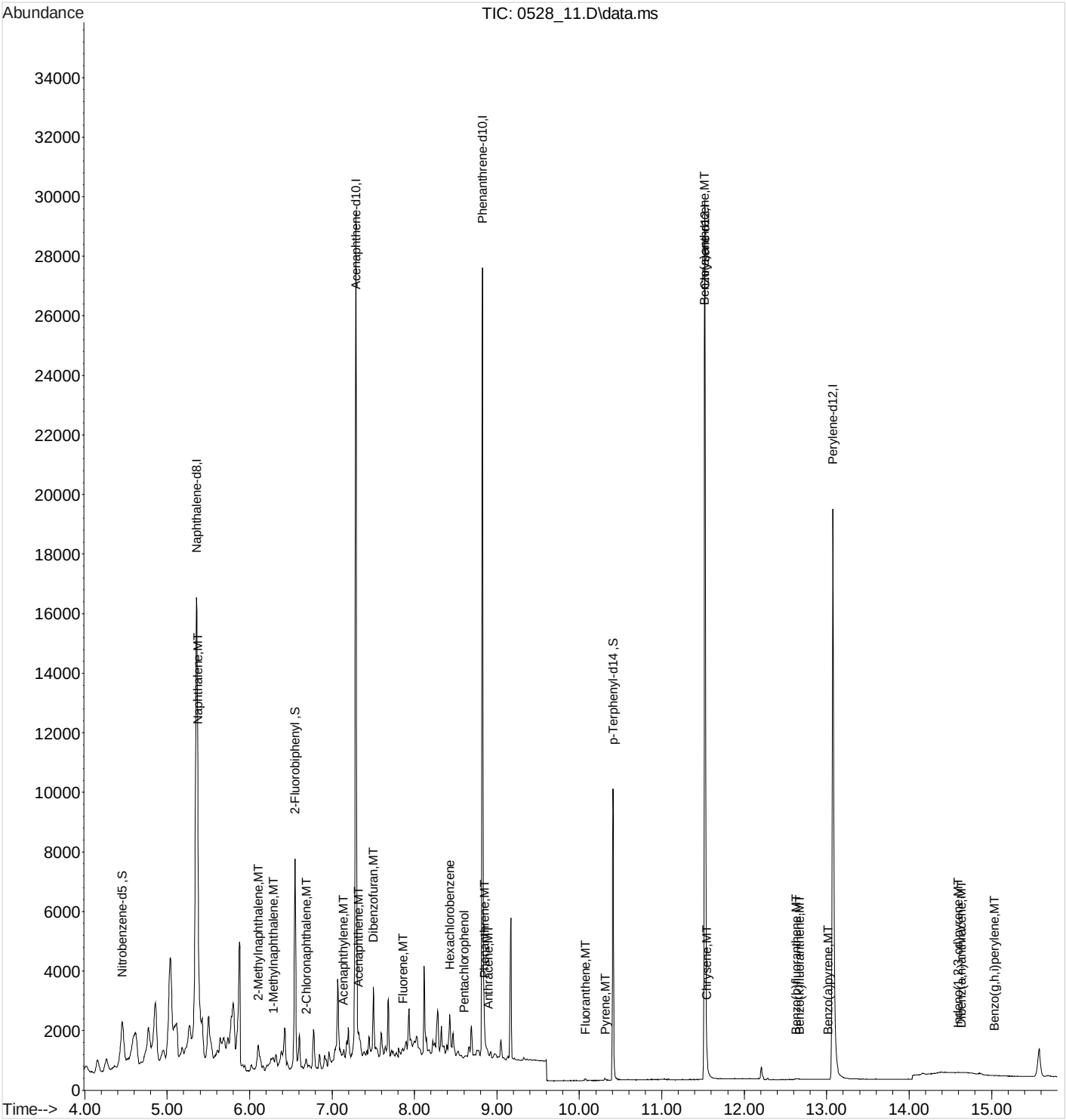
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.356	136	24586	40.0000000 ppb	-0.02
6) Acenaphthene-d10	7.287	164	16511	40.0000000 ppb	-0.01
13) Phenanthrene-d10	8.825	188	27684	40.0000000 ppb	0.00
19) Chrysene-d12	11.522	240	25774	40.0000000 ppb	0.00
24) Perylene-d12	13.077	264	24904	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.453	82	3604	1.0370000 ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 51.85%		
7) 2-Fluorobiphenyl	6.550	172	6584	0.6185553 ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 30.93%#		
21) p-Terphenyl-d14	10.407	244	7585	0.6950045 ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 34.75%#		
Target Compounds					Qvalue
3) Naphthalene	5.370	128	3172m	0.2733282 ppb	
4) 2-Methylnaphthalene	6.104	142	891m	0.1123497 ppb	
5) 1-Methylnaphthalene	6.288	142	456	0.0612637 ppb #	72
8) 2-Chloronaphthalene	6.686	162	102	0.0107789 ppb #	1
9) Acenaphthylene	7.140	152	51m	0.0037099 ppb	
10) Acenaphthene	7.321	153	298	0.0309133 ppb	90
11) Dibenzofuran	7.502	168	1911	0.1543451 ppb	90
12) Fluorene	7.856	166	30m	0.0028302 ppb	
14) Hexachlorobenzene	8.425	284	43	0.0132422 ppb #	1
15) Pentachlorophenol	8.601	266	2	1.1172658 ppb #	32
16) Phenanthrene	8.847	178	99	0.0065859 ppb	92
17) Anthracene	8.896	178	51	0.0035374 ppb	70
18) Fluoranthene	10.071	202	53	0.0032614 ppb	98
20) Pyrene	10.314	202	52	0.0039388 ppb	88
22) Benzo(a)anthracene	11.518	228	99	0.0073109 ppb	71
23) Chrysene	11.545	228	28m	0.0021784 ppb	
25) Benzo(b)fluoranthene	12.630	252	31	0.0024103 ppb	77
26) Benzo(k)fluoranthene	12.668	252	20	0.0016503 ppb	94
27) Benzo(a)pyrene	13.018	252	28m	0.0025717 ppb	
28) Indeno(1,2,3-cd)pyrene	14.593	276	3	0.0002226 ppb #	6
29) Dibenz(a,h)anthracene	14.636	278	4	0.0003536 ppb	82
30) Benzo(g,h,i)perylene	15.032	276	4	0.0003512 ppb	89

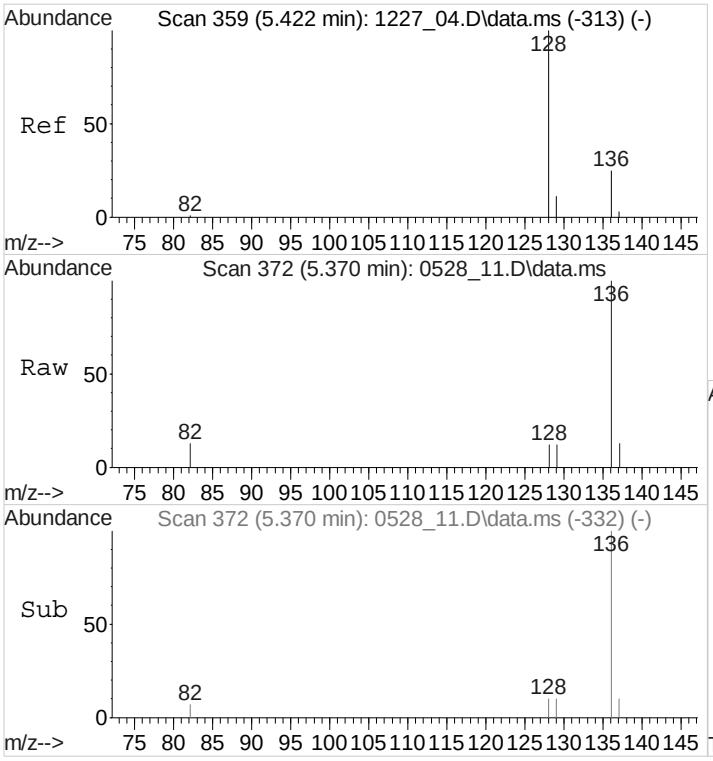
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 11.D
Acq On : 29 May 2015 3:08 am
Operator : 282
Sample : L767115-05 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 73 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:02:55 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

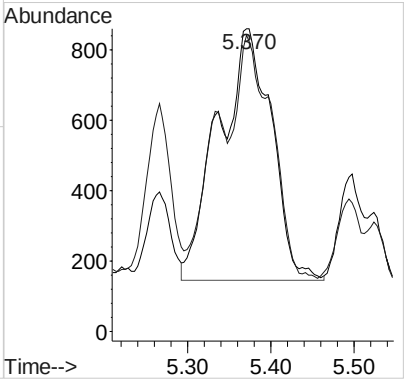


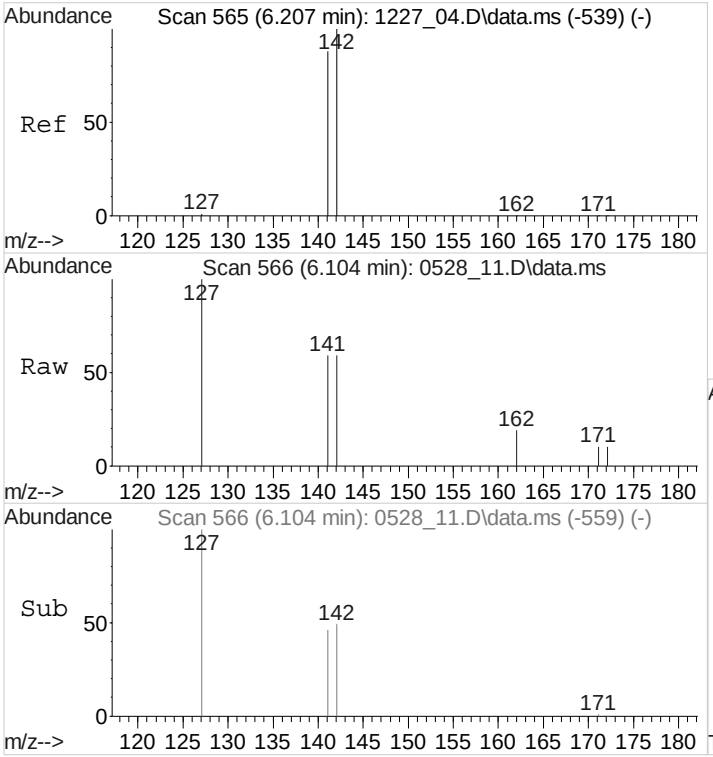


#3
Naphthalene
Concen: 0.2733282 ppb m
RT: 5.370 min Scan# 372
Delta R.T. -0.030 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:128 Resp: 3172

Ion	Ratio	Lower	Upper
128	100		
129	97.8	0.0	30.9#

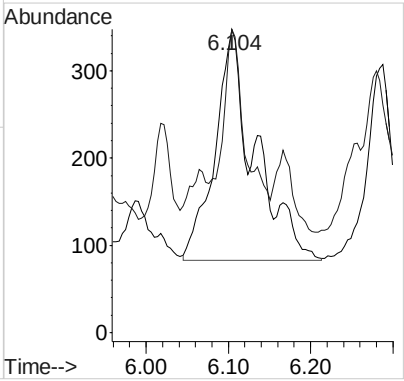


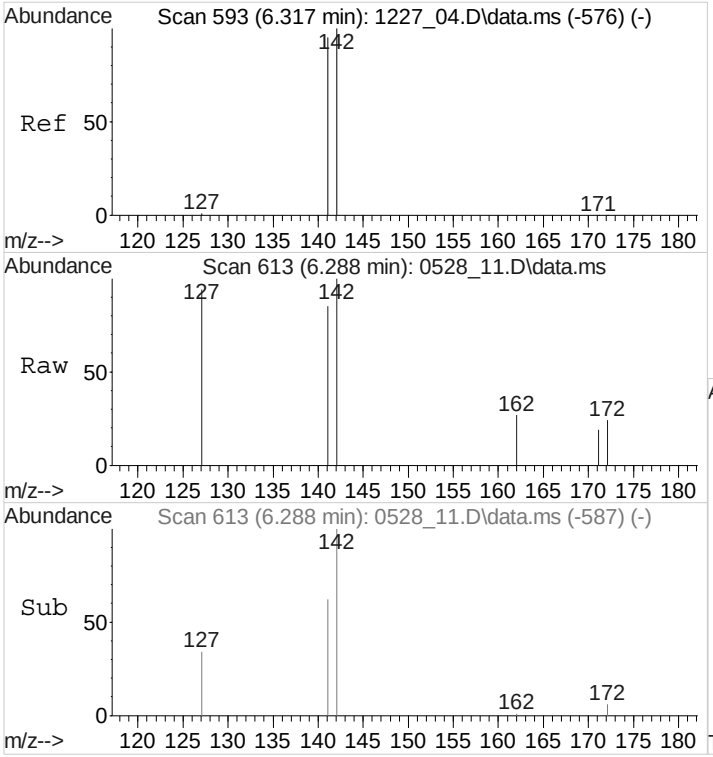


#4
2-Methylnaphthalene
Concen: 0.1123497 ppb m
RT: 6.104 min Scan# 566
Delta R.T. -0.074 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:142 Resp: 891

Ion	Ratio	Lower	Upper
142	100		
141	100.3	67.1	107.1

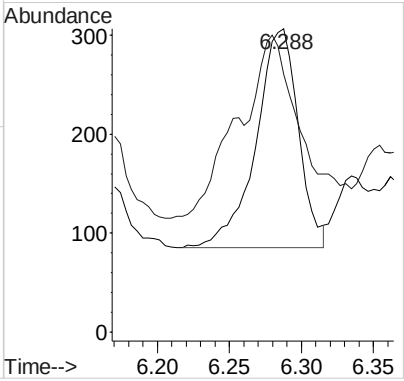


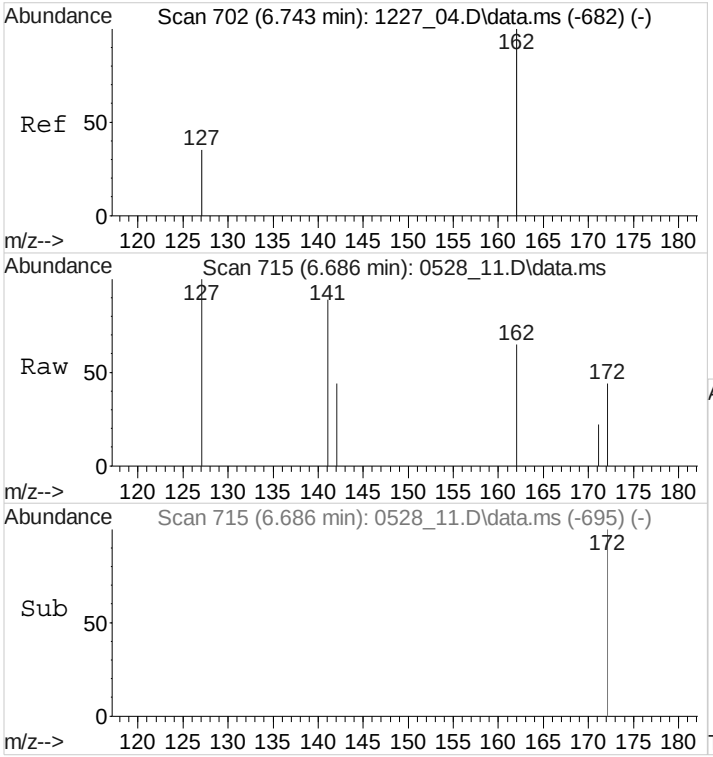


#5
1-Methylnaphthalene
Concen: 0.0612637 ppb
RT: 6.288 min Scan# 613
Delta R.T. -0.000 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:142 Resp: 456

Ion	Ratio	Lower	Upper
142	100		
141	64.9	71.6	111.6#

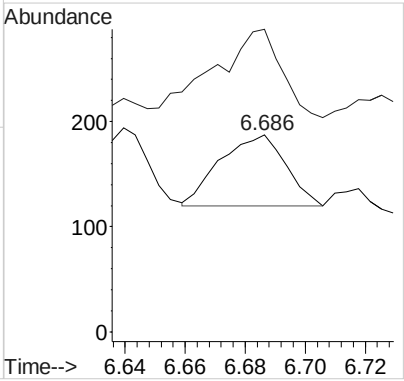


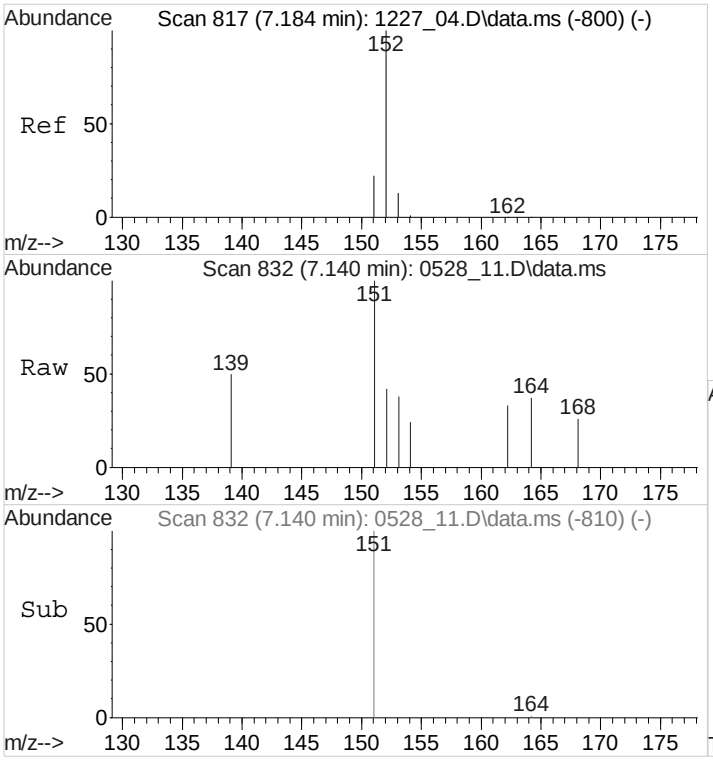


#8
2-Chloronaphthalene
Concen: 0.0107789 ppb
RT: 6.686 min Scan# 715
Delta R.T. -0.024 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:162 Resp: 102

Ion	Ratio	Lower	Upper
162	100		
127	125.4	14.7	54.7#

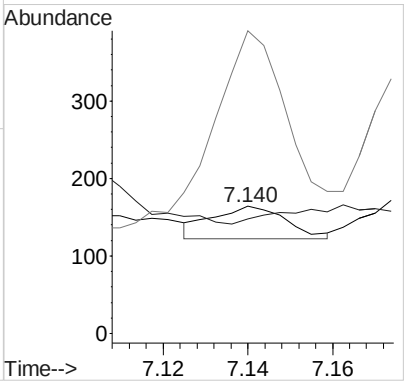


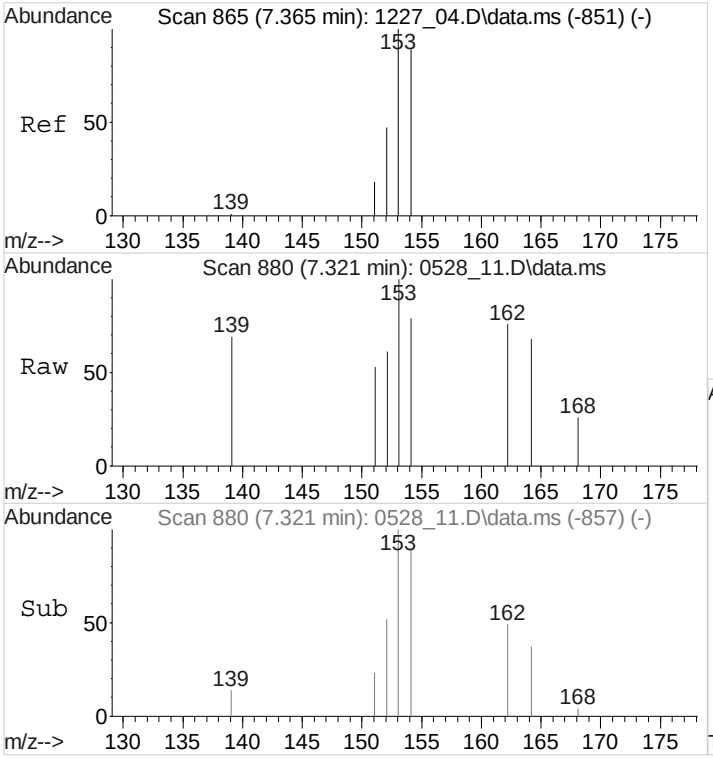


#9
Acenaphthylene
Concen: 0.0037099 ppb m
RT: 7.140 min Scan# 832
Delta R.T. -0.015 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:152 Resp: 51

Ion	Ratio	Lower	Upper
152	100		
153	90.2	0.0	33.0#
151	238.4	0.8	40.8#

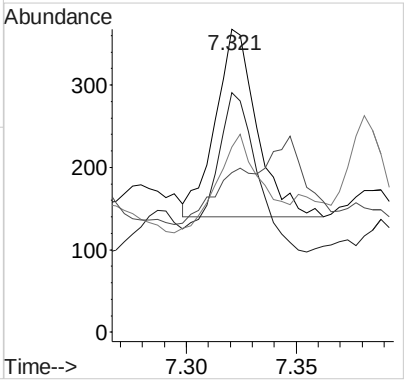


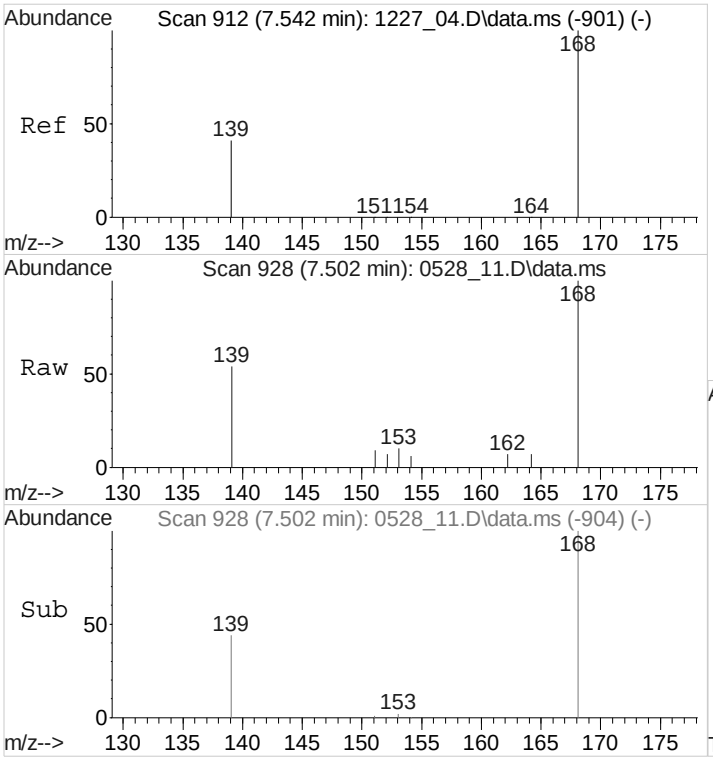


#10
Acenaphthene
Concen: 0.0309133 ppb
RT: 7.321 min Scan# 880
Delta R.T. -0.012 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:153 Resp: 298

Ion	Ratio	Lower	Upper
153	100		
154	82.0	71.0	111.0
152	43.4	27.0	67.0
151	27.2	0.0	37.6

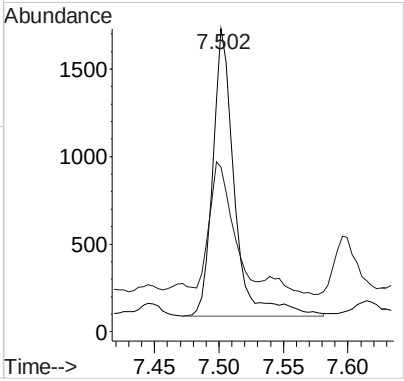


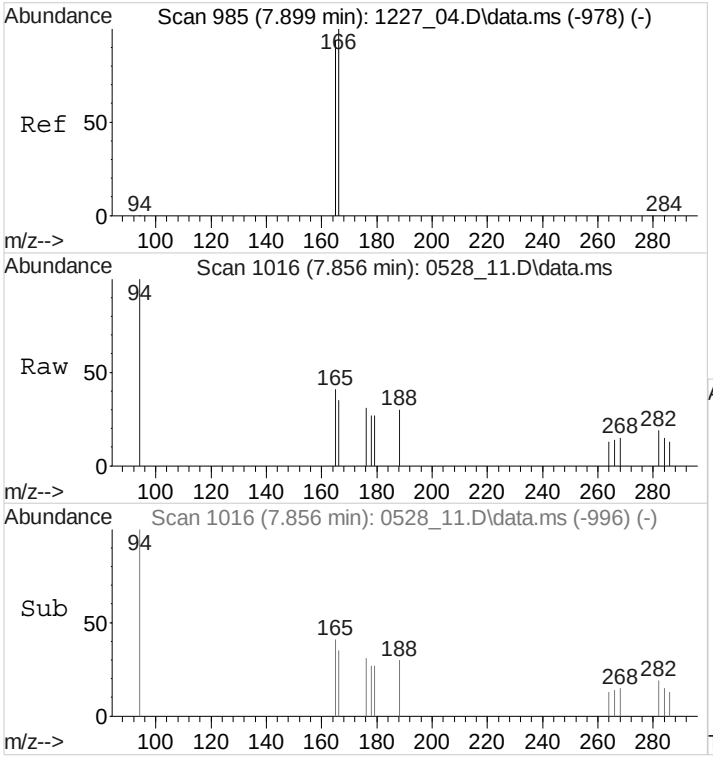


#11
Dibenzofuran
Concen: 0.1543451 ppb
RT: 7.502 min Scan# 928
Delta R.T. -0.008 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:168 Resp: 1911

Ion	Ratio	Lower	Upper
168	100		
139	43.4	17.4	57.4

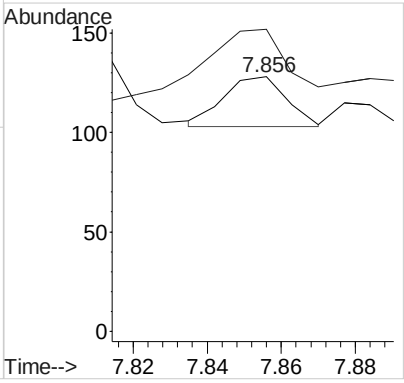


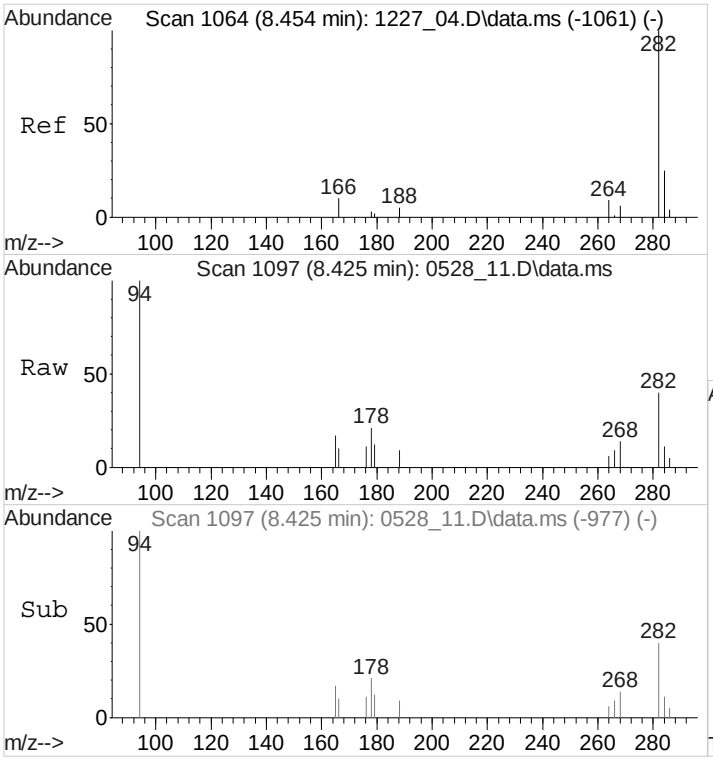


#12
Fluorene
Concen: 0.0028302 ppb m
RT: 7.856 min Scan# 1016
Delta R.T. -0.003 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:166 Resp: 30

Ion	Ratio	Lower	Upper
166	100		
165	118.8	78.8	118.8

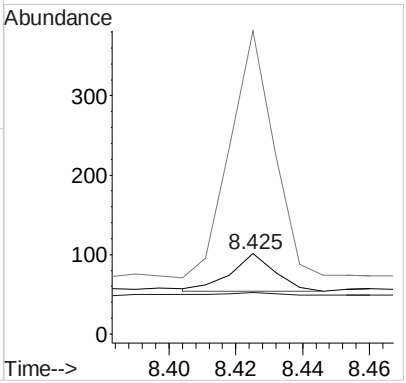


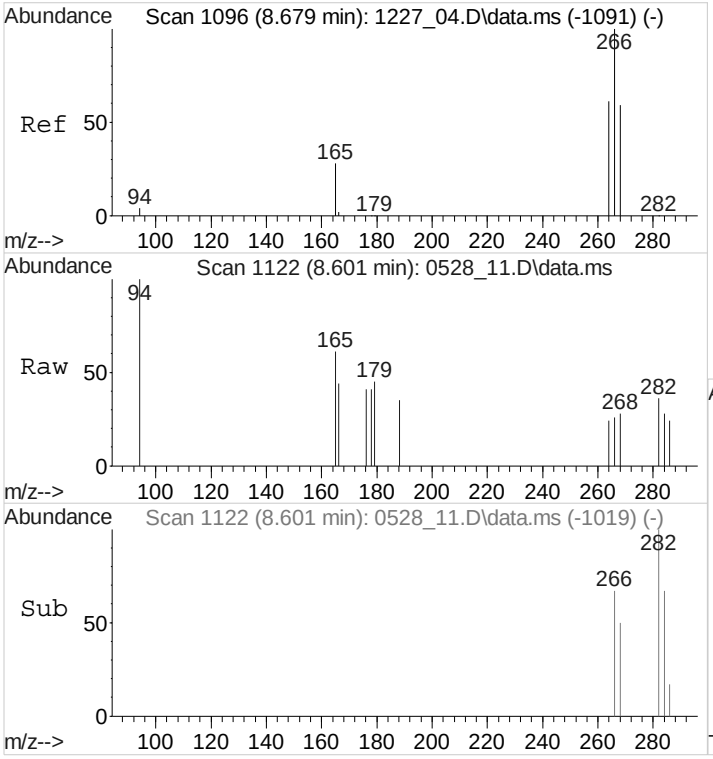


#14
Hexachlorobenzene
Concen: 0.0132422 ppb
RT: 8.425 min Scan# 1097
Delta R.T. -0.010 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:284 Resp: 43

Ion	Ratio	Lower	Upper
284	100		
286	6.4	59.6	89.4#
282	661.7	45.5	68.3#

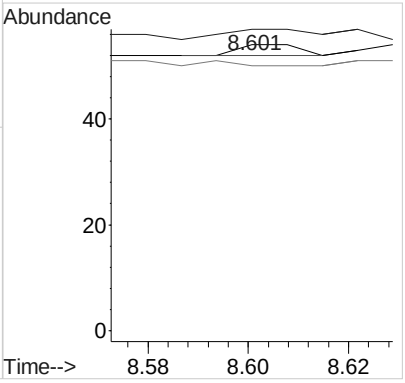


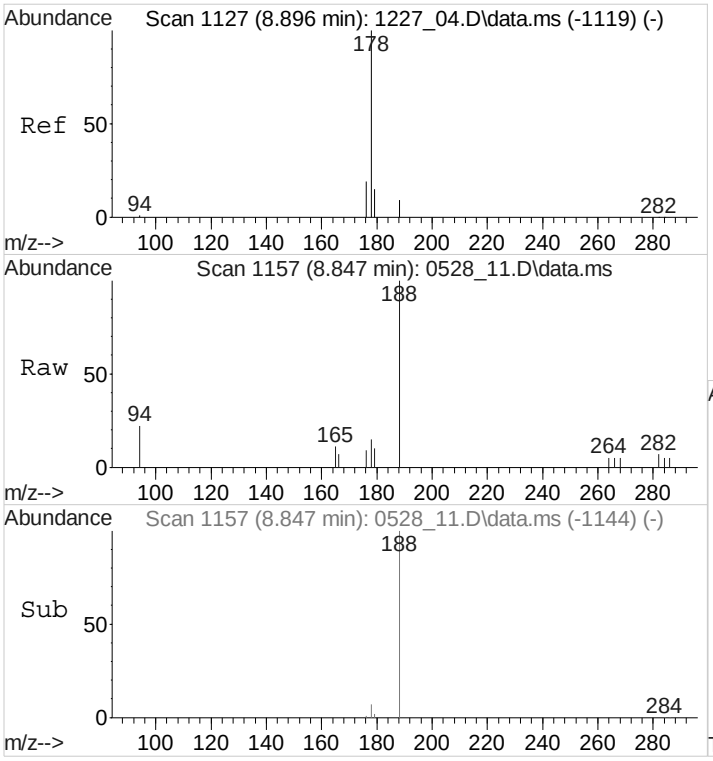


#15
Pentachlorophenol
Concen: 1.1172658 ppb
RT: 8.601 min Scan# 1122
Delta R.T. -0.024 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:266 Resp: 2

Ion	Ratio	Lower	Upper
266	100		
268	100.0	48.4	72.6#
264	0.0	51.8	77.6#

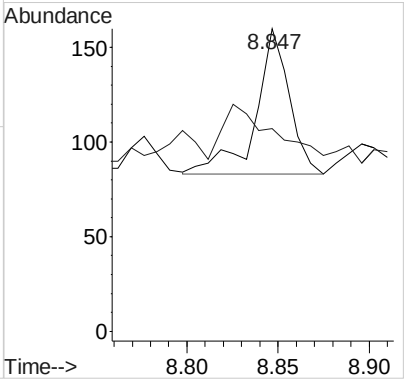


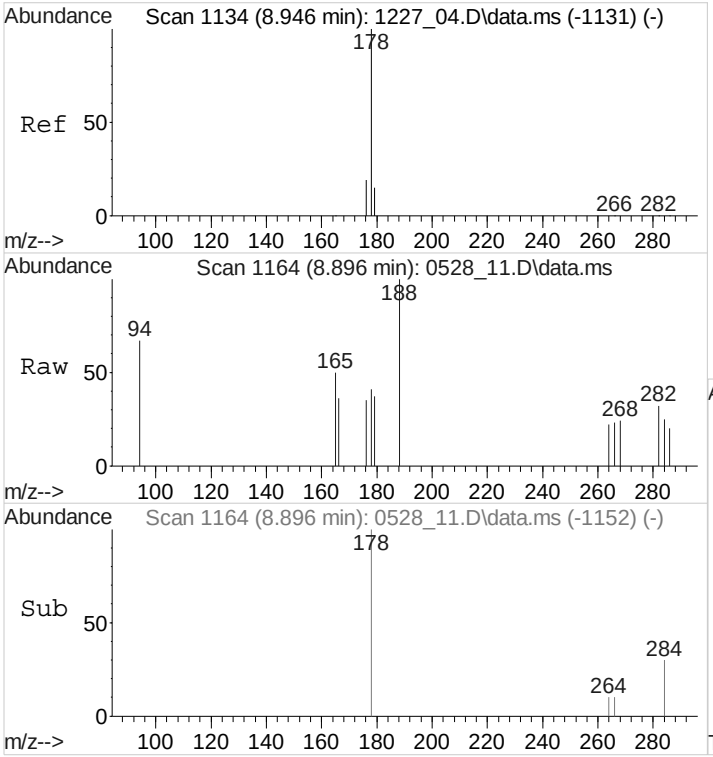


#16
Phenanthrene
Concen: 0.0065859 ppb
RT: 8.847 min Scan# 1157
Delta R.T. -0.011 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:178 Resp: 99

Ion	Ratio	Lower	Upper
178	100		
179	18.2	0.0	35.0

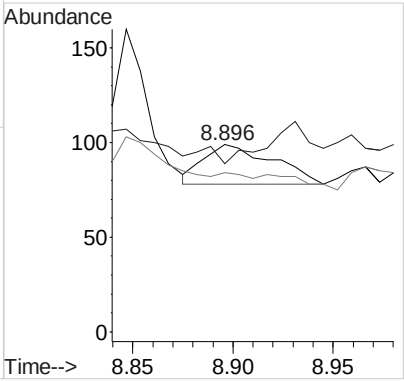


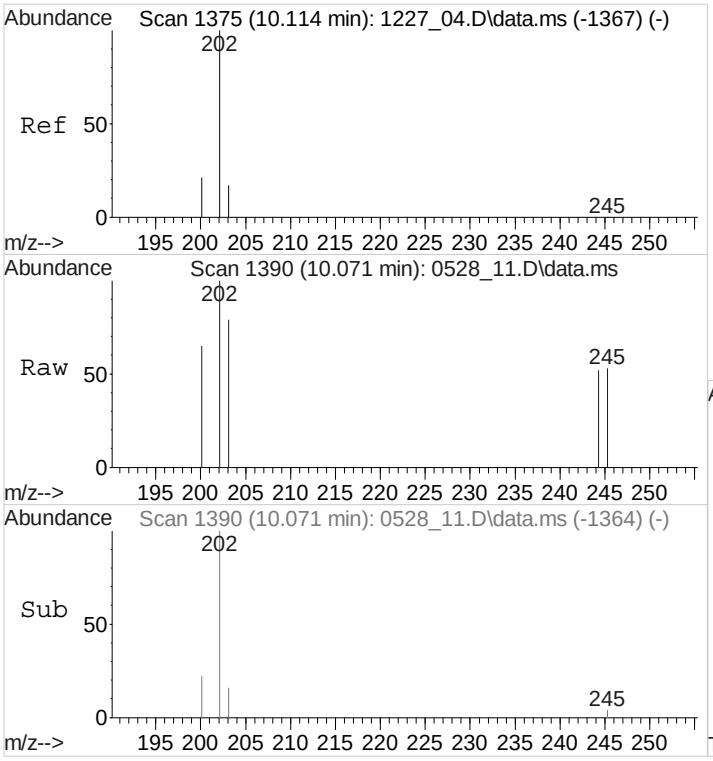


#17
Anthracene
Concen: 0.0035374 ppb
RT: 8.896 min Scan# 1164
Delta R.T. -0.018 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:178 Resp: 51

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	35.5
176	28.6	0.0	38.1

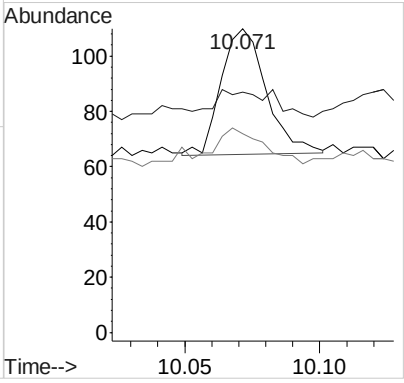


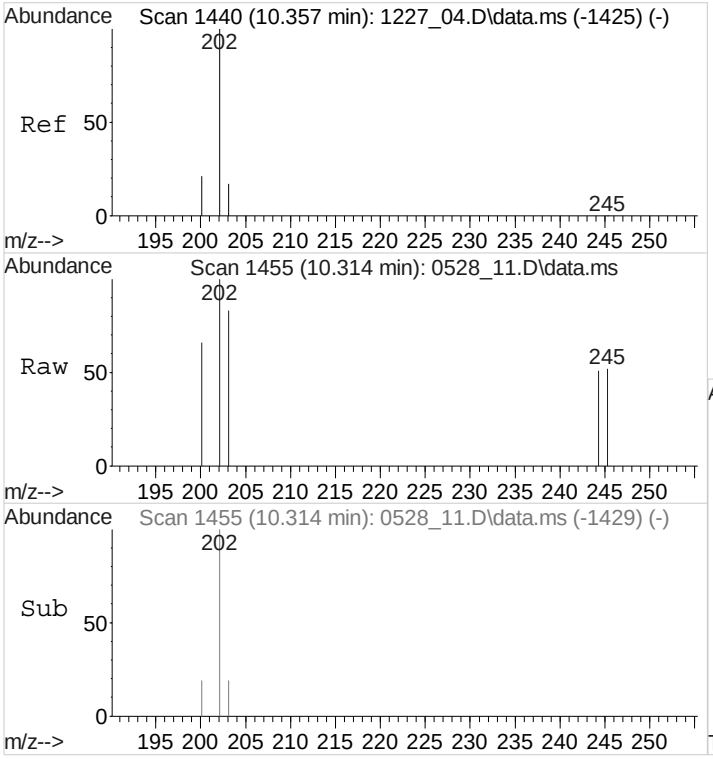


#18
Fluoranthene
Concen: 0.0032614 ppb
RT: 10.071 min Scan# 1390
Delta R.T. -0.003 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:202 Resp: 53

Ion	Ratio	Lower	Upper
202	100		
203	15.6	0.0	36.7
200	20.0	0.8	40.8

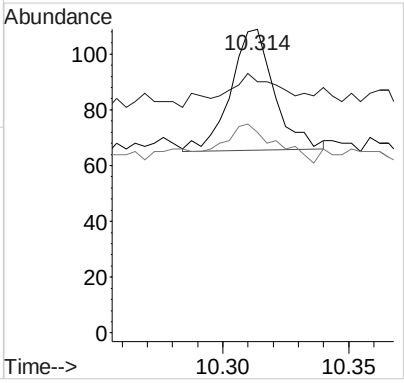


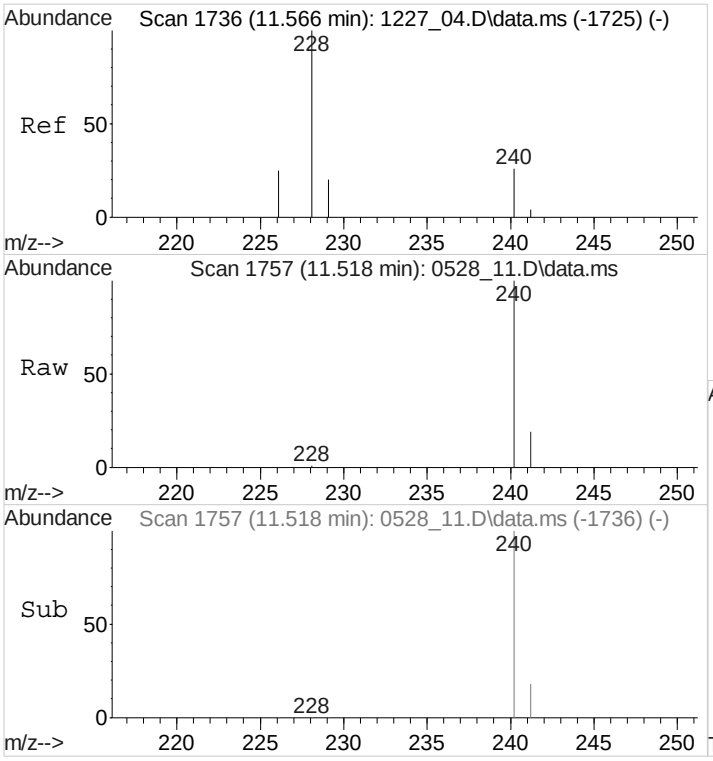


#20
Pyrene
Concen: 0.0039388 ppb
RT: 10.314 min Scan# 1455
Delta R.T. -0.003 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:202 Resp: 52

Ion	Ratio	Lower	Upper
202	100		
203	20.9	0.0	37.2
200	14.0	0.7	40.7

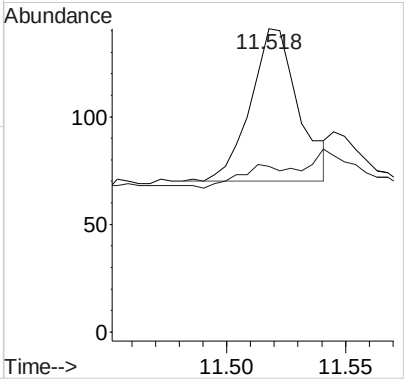


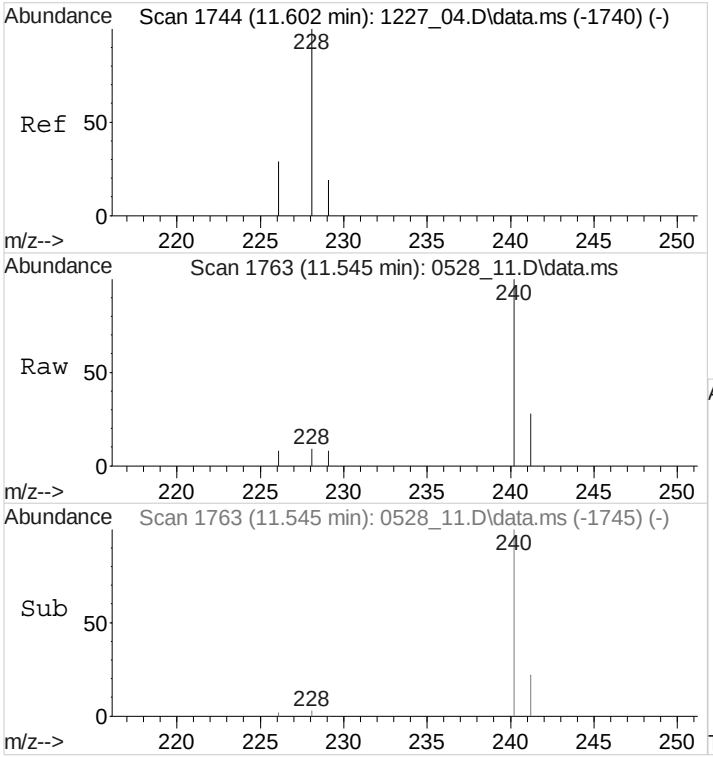


#22
Benzo(a)anthracene
Concen: 0.0073109 ppb
RT: 11.518 min Scan# 1757
Delta R.T. -0.004 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:228 Resp: 99

Ion	Ratio	Lower	Upper
228	100		
226	12.7	7.6	47.6

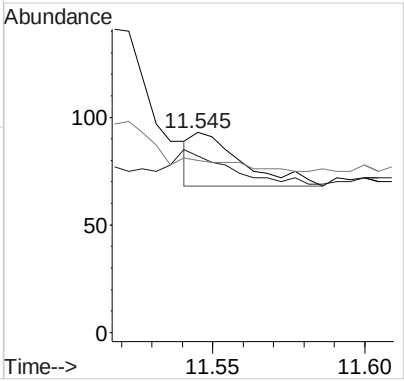


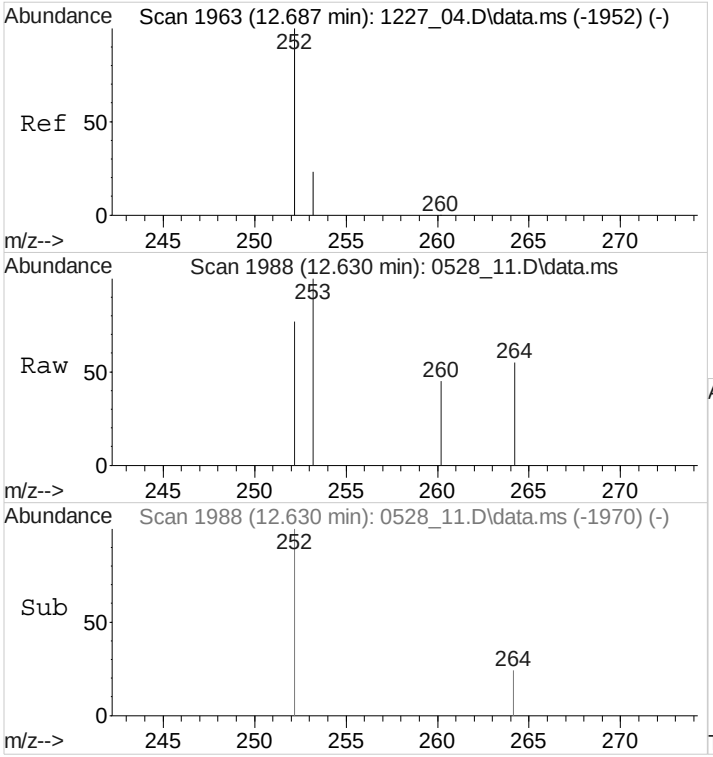


#23
Chrysene
Concen: 0.0021784 ppb m
RT: 11.545 min Scan# 1763
Delta R.T. -0.018 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:228 Resp: 28

Ion	Ratio	Lower	Upper
228	100		
226	88.2	9.0	49.0#
229	86.0	0.0	39.5#

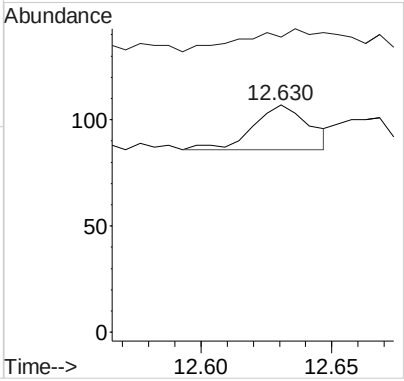


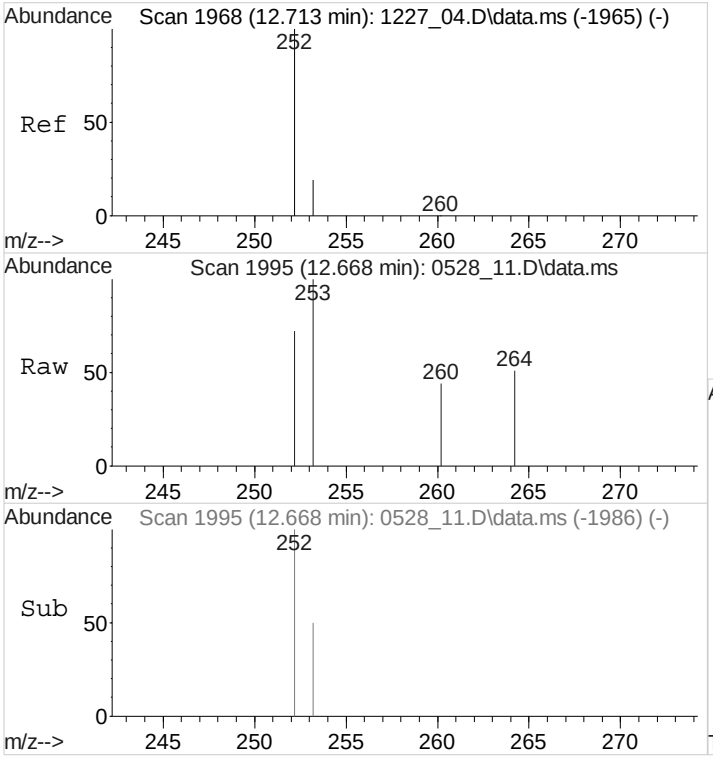


#25
Benzo(b)fluoranthene
Concen: 0.0024103 ppb
RT: 12.630 min Scan# 1988
Delta R.T. -0.005 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:252 Resp: 31

Ion	Ratio	Lower	Upper
252	100		
253	33.3	2.4	42.4

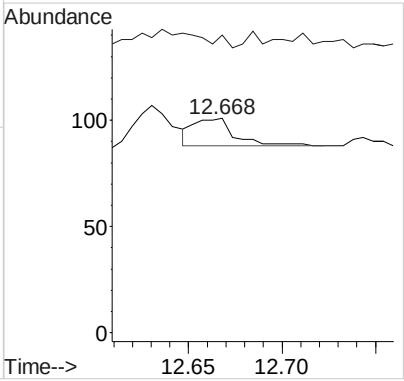


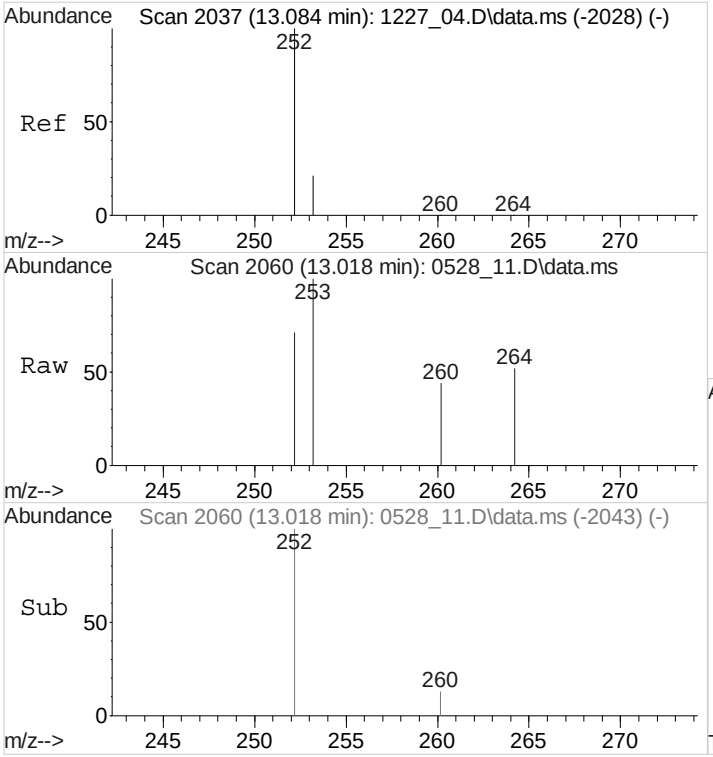


#26
Benzo(k)fluoranthene
Concen: 0.0016503 ppb
RT: 12.668 min Scan# 1995
Delta R.T. 0.000 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:252 Resp: 20

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.3	40.3

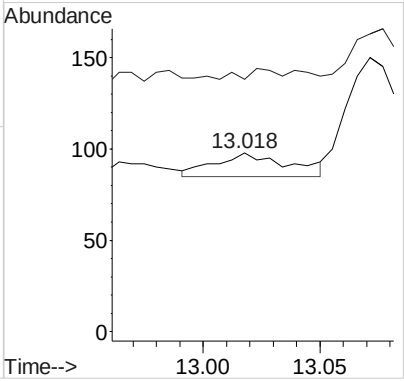


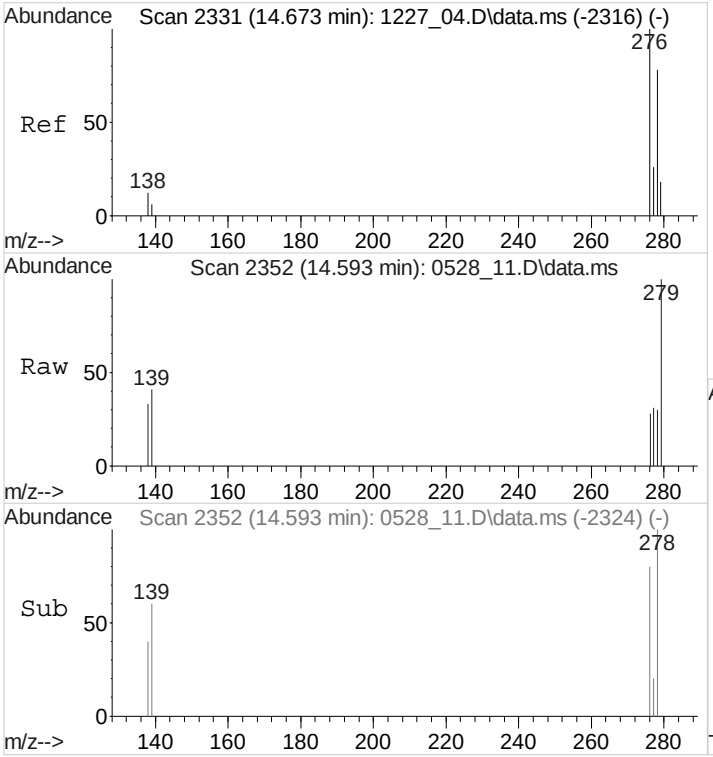


#27
Benzo(a)pyrene
Concen: 0.0025717 ppb m
RT: 13.018 min Scan# 2060
Delta R.T. -0.011 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:252 Resp: 28

Ion	Ratio	Lower	Upper
252	100		
253	140.8	1.8	41.8#

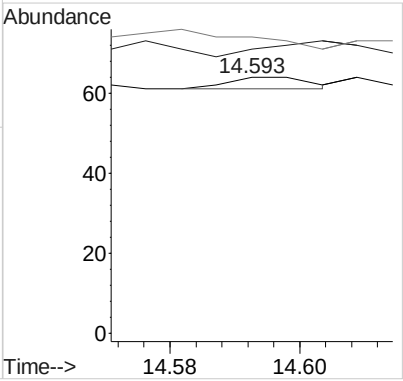


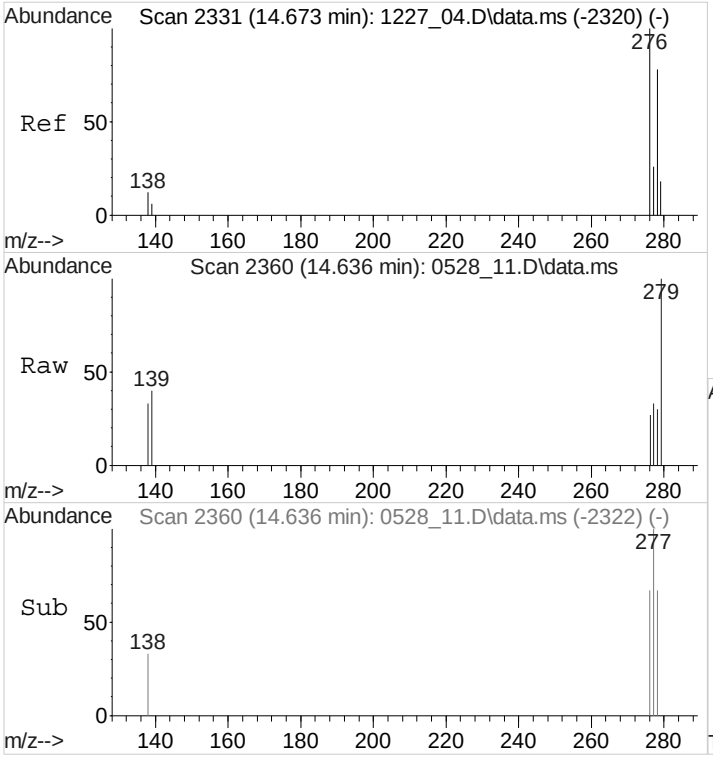


#28
Indeno(1,2,3-cd)pyrene
Concen: 0.0002226 ppb
RT: 14.593 min Scan# 2352
Delta R.T. 0.000 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:276 Resp: 3

Ion	Ratio	Lower	Upper
276	100		
277	0.0	6.2	46.2#
138	100.0	9.0	49.0#

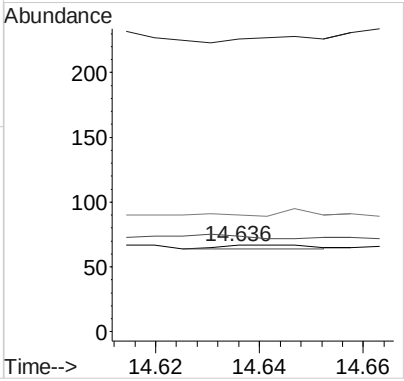


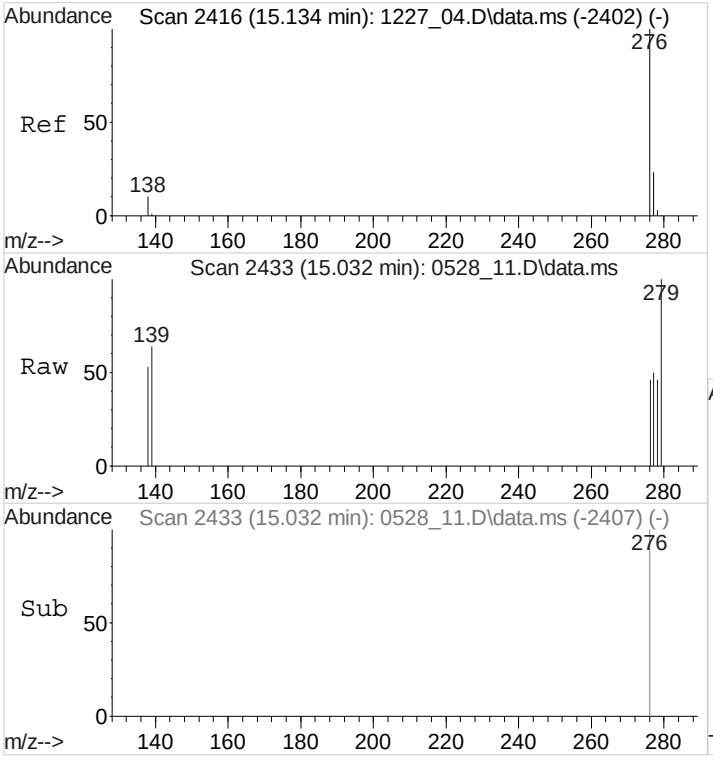


#29
Dibenz(a,h)anthracene
Concen: 0.0003536 ppb
RT: 14.636 min Scan# 2360
Delta R.T. 0.054 min
Lab File: 0528 11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:278 Resp: 4

Ion	Ratio	Lower	Upper
278	100		
279	33.3	3.6	43.6
139	0.0	0.0	38.9
138	33.3	11.7	51.7

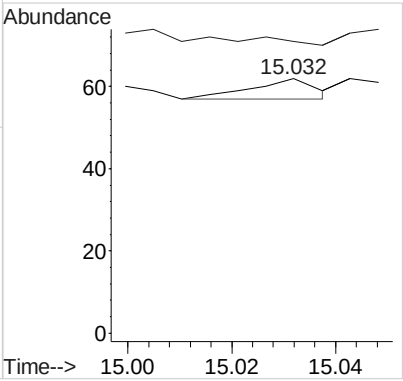




#30
Benzo(g,h,i)perylene
Concen: 0.0003512 ppb
RT: 15.032 min Scan# 2433
Delta R.T. -0.011 min
Lab File: 0528_11.D
Acq: 29 May 2015 3:08 am

Tgt Ion:276 Resp: 4

Ion	Ratio	Lower	Upper
276	100		
138	20.0	5.4	45.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 12.D
Acq On : 29 May 2015 3:29 am
Operator : 282
Sample : L767115-07 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 74 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:04:24 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

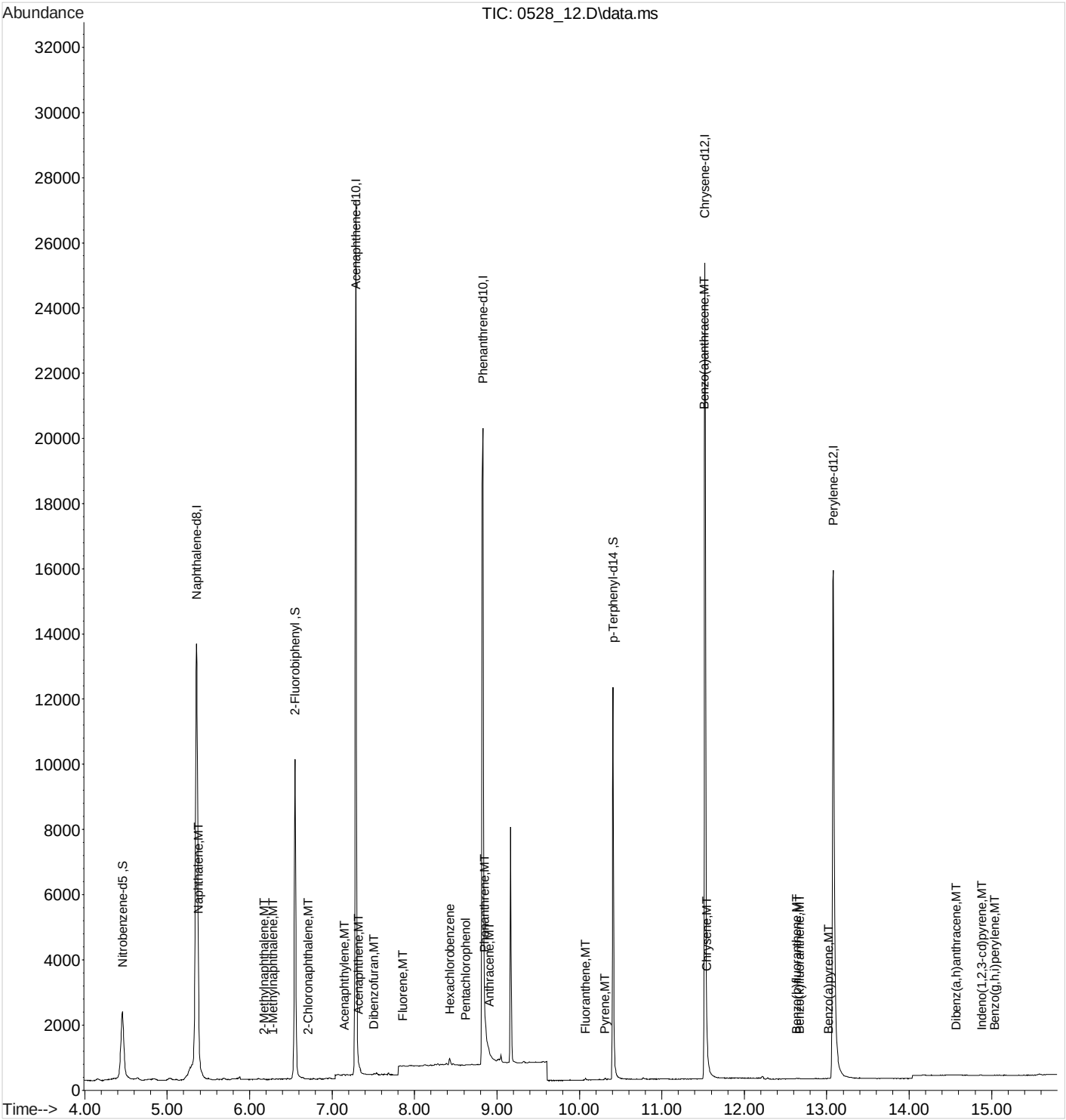
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	25196	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.287	164	15310	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.829	188	24239	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	24072	40.0000000	ppb	0.00
24) Perylene-d12	13.082	264	23449	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.457	82	3786	1.0629941	ppb	-0.02
Spiked Amount 2.000	Range 45 - 170		Recovery = 53.15%			
7) 2-Fluorobiphenyl	6.550	172	9351	0.9474252	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 47.37%#			
21) p-Terphenyl-d14	10.407	244	10153	0.9960842	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 49.80%#			
Target Compounds						Qvalue
3) Naphthalene	5.378	128	194	0.0163121	ppb	68
4) 2-Methylnaphthalene	6.174	142	21	0.0025839	ppb	83
5) 1-Methylnaphthalene	6.284	142	26m	0.0034085	ppb	
8) 2-Chloronaphthalene	6.710	162	6	0.0006838	ppb	91
9) Acenaphthylene	7.148	152	11	0.0008629	ppb #	17
10) Acenaphthene	7.317	153	21	0.0023493	ppb #	43
11) Dibenzofuran	7.509	168	41	0.0035712	ppb	79
12) Fluorene	7.859	166	14m	0.0014244	ppb	
14) Hexachlorobenzene	8.428	284	21m	0.0073862	ppb	
15) Pentachlorophenol	8.618	266	2	1.1175501	ppb #	51
16) Phenanthrene	8.850	178	91	0.0069141	ppb	96
17) Anthracene	8.906	178	18	0.0014260	ppb	86
18) Fluoranthene	10.075	202	44	0.0030924	ppb	93
20) Pyrene	10.310	202	44	0.0035684	ppb	86
22) Benzo(a)anthracene	11.517	228	88	0.0069580	ppb	65
23) Chrysene	11.545	228	22m	0.0018327	ppb	
25) Benzo(b)fluoranthene	12.636	252	26	0.0021470	ppb	77
26) Benzo(k)fluoranthene	12.668	252	17m	0.0014898	ppb	
27) Benzo(a)pyrene	13.023	252	14	0.0013656	ppb	76
28) Indeno(1,2,3-cd)pyrene	14.880	276	3	0.0002364	ppb	89
29) Dibenz(a,h)anthracene	14.571	278	3	0.0002817	ppb #	33
30) Benzo(g,h,i)perylene	15.037	276	7	0.0006527	ppb #	51

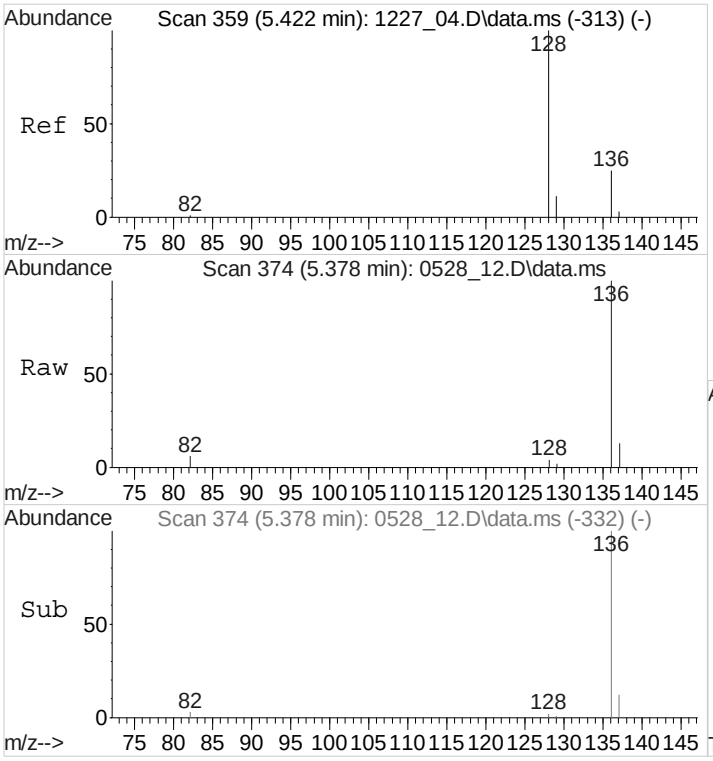
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 12.D
Acq On : 29 May 2015 3:29 am
Operator : 282
Sample : L767115-07 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 74 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:04:24 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

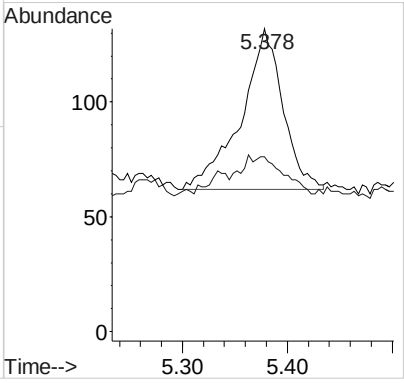


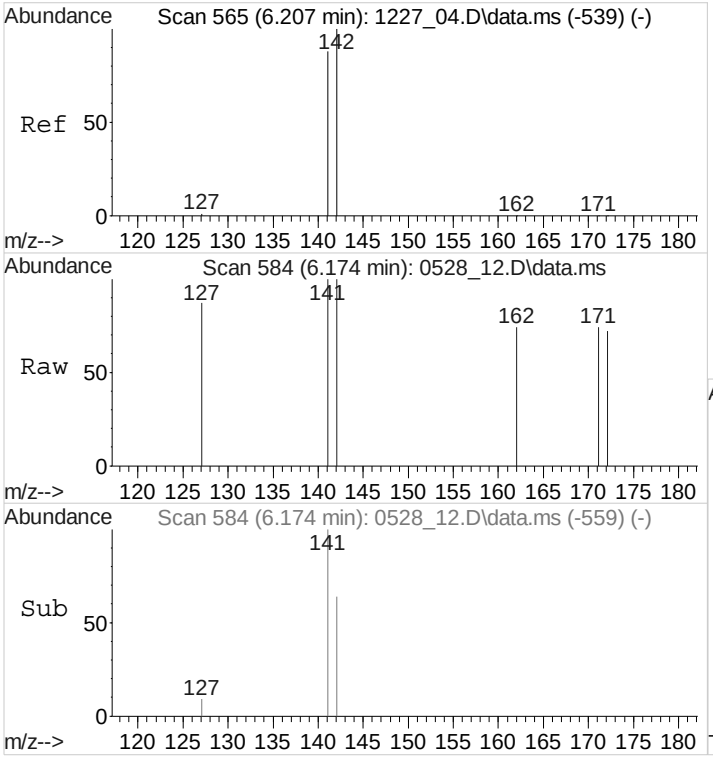


#3
Naphthalene
Concen: 0.0163121 ppb
RT: 5.378 min Scan# 374
Delta R.T. -0.022 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:128 Resp: 194

Ion	Ratio	Lower	Upper
128	100		
129	22.9	0.0	30.9

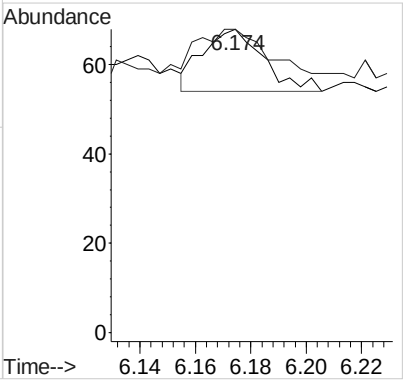


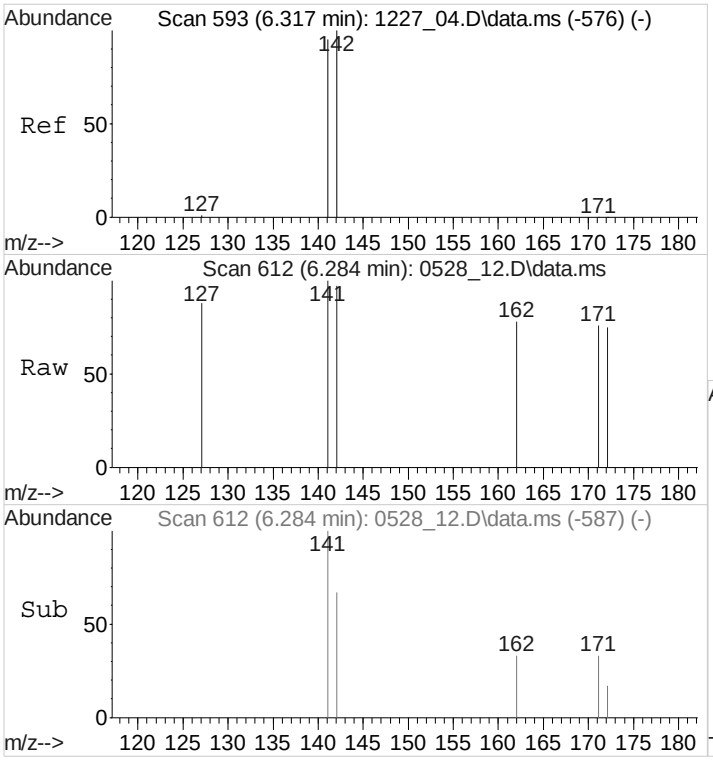


#4
2-Methylnaphthalene
Concen: 0.0025839 ppb
RT: 6.174 min Scan# 584
Delta R.T. -0.004 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:142 Resp: 21

Ion	Ratio	Lower	Upper
142	100		
141	71.4	67.1	107.1

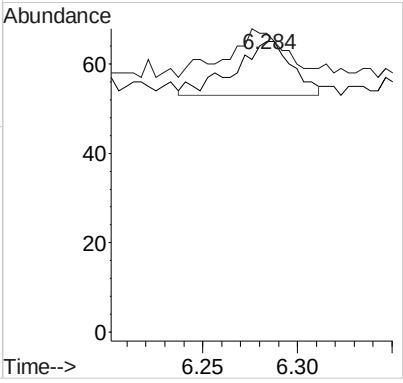


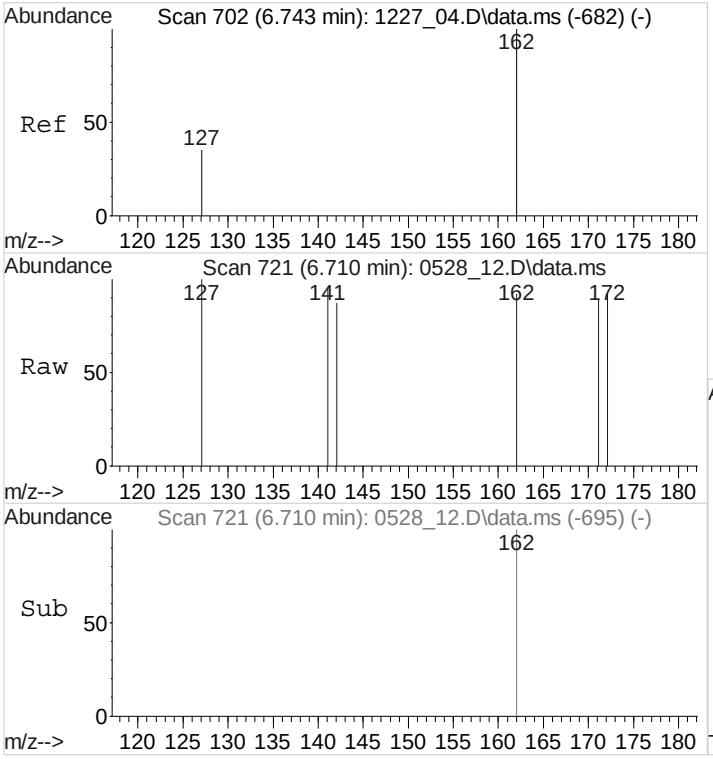


#5
1-Methylnaphthalene
Concen: 0.0034085 ppb m
RT: 6.284 min Scan# 612
Delta R.T. -0.004 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:142 Resp: 26

Ion	Ratio	Lower	Upper
142	100		
141	103.1	71.6	111.6

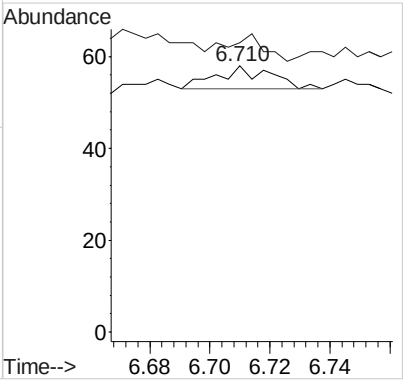


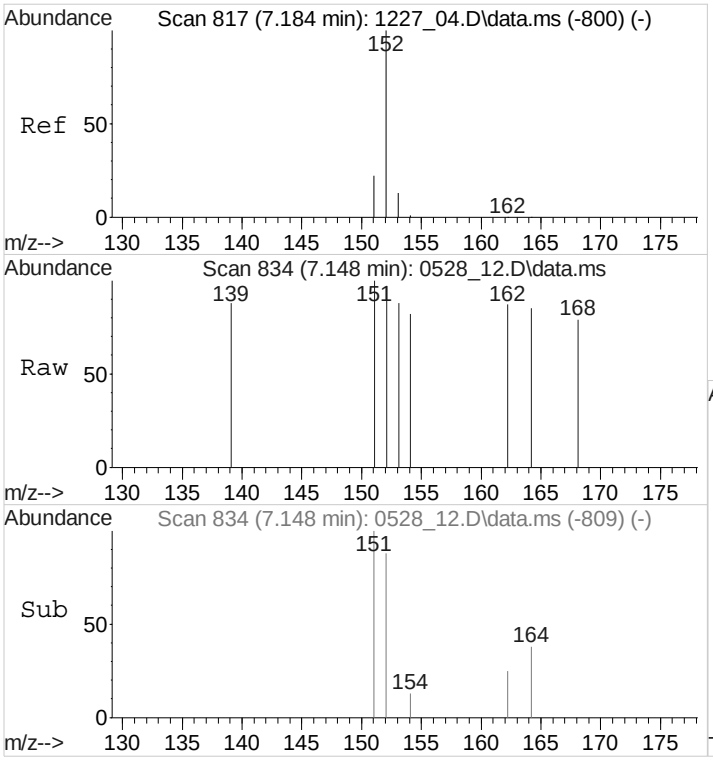


#8
2-Chloronaphthalene
Concen: 0.0006838 ppb
RT: 6.710 min Scan# 721
Delta R.T. -0.000 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:162 Resp: 6

Ion	Ratio	Lower	Upper
162	100		
127	40.0	14.7	54.7

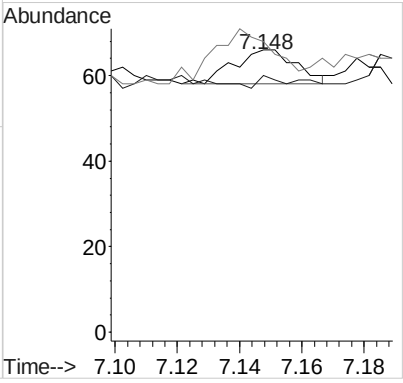


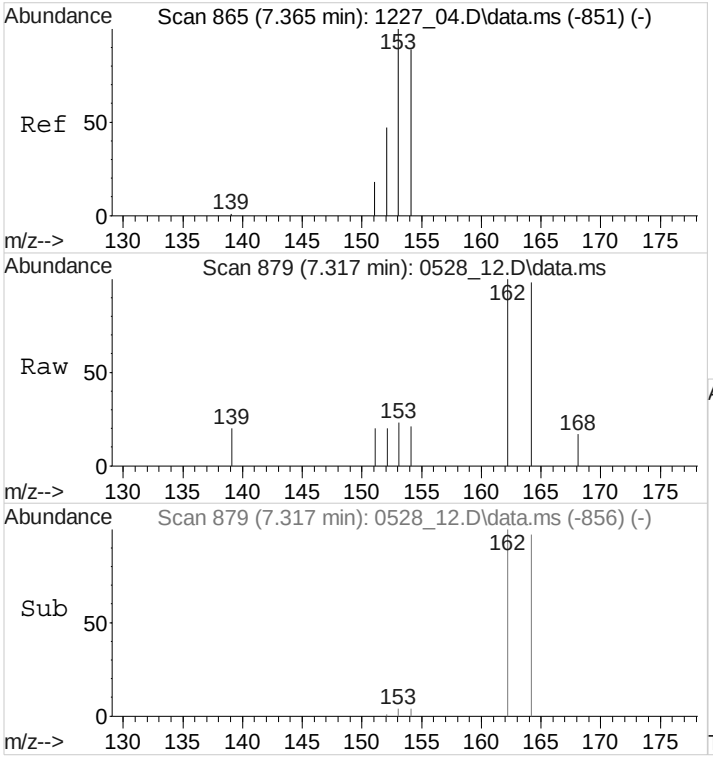


#9
Acenaphthylene
Concen: 0.0008629 ppb
RT: 7.148 min Scan# 834
Delta R.T. -0.008 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:152 Resp: 11

Ion	Ratio	Lower	Upper
152	100		
153	25.0	0.0	33.0
151	75.0	0.8	40.8#

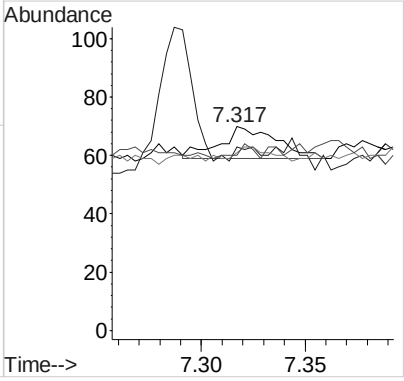


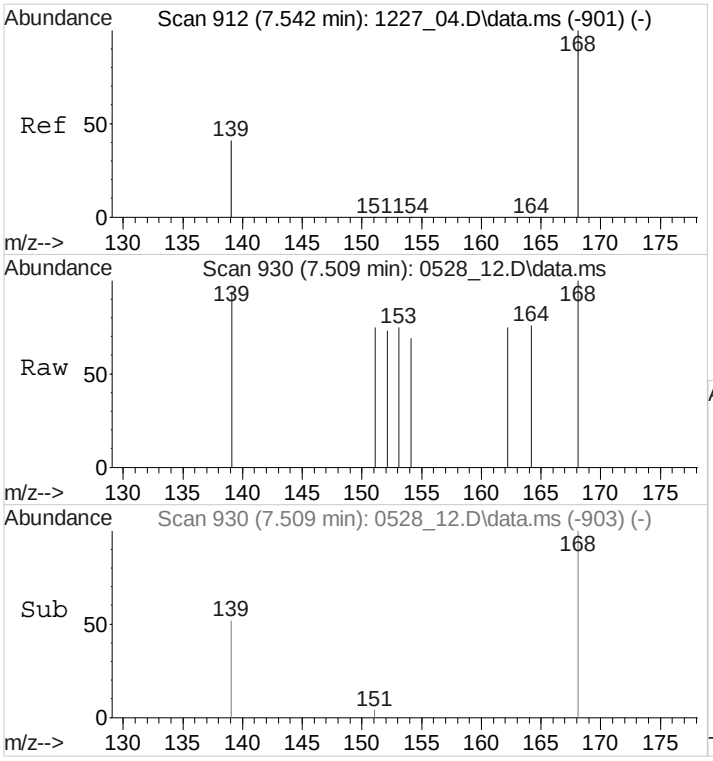


#10
Acenaphthene
Concen: 0.0023493 ppb
RT: 7.317 min Scan# 879
Delta R.T. -0.015 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:153 Resp: 21

Ion	Ratio	Lower	Upper
153	100		
154	27.3	71.0	111.0#
152	18.2	27.0	67.0#
151	0.0	0.0	37.6

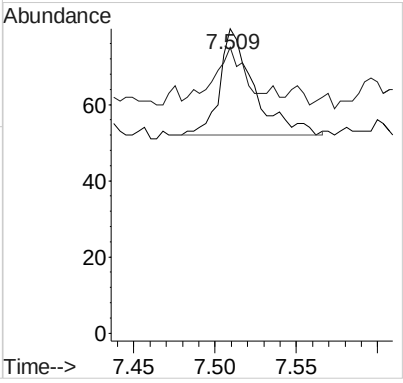


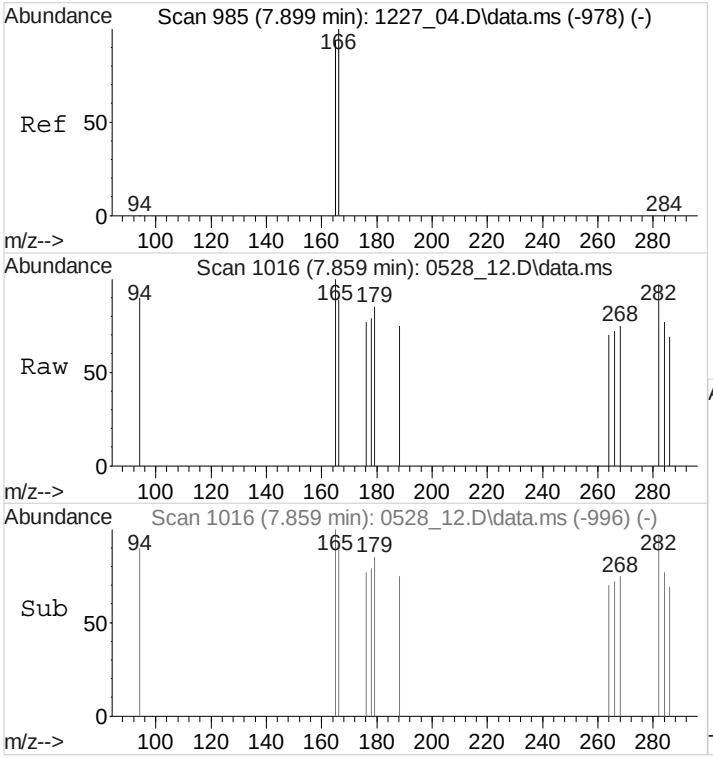


#11
Dibenzofuran
Concen: 0.0035712 ppb
RT: 7.509 min Scan# 930
Delta R.T. -0.000 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:168 Resp: 41

Ion	Ratio	Lower	Upper
168	100		
139	50.0	17.4	57.4

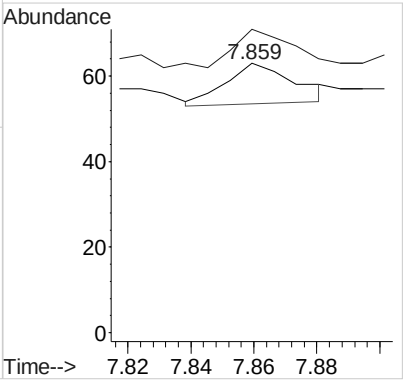


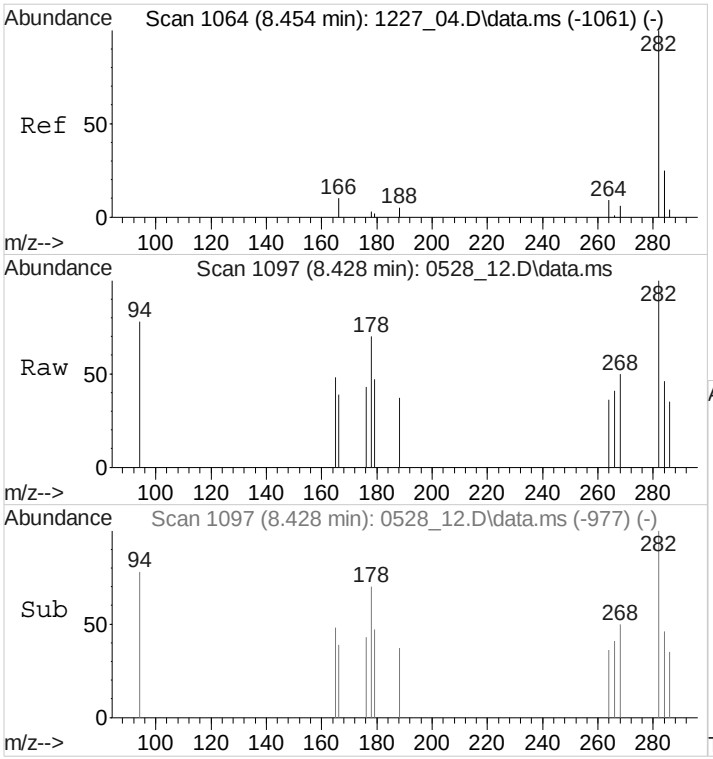


#12
Fluorene
Concen: 0.0014244 ppb m
RT: 7.859 min Scan# 1016
Delta R.T. -0.000 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:166 Resp: 14

Ion	Ratio	Lower	Upper
166	100		
165	112.7	78.8	118.8

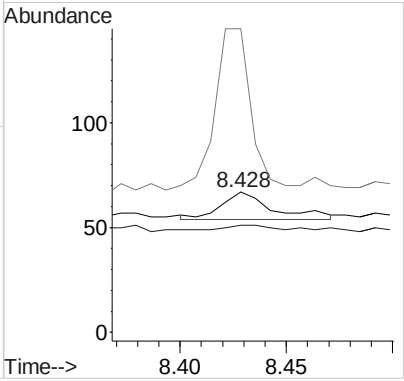


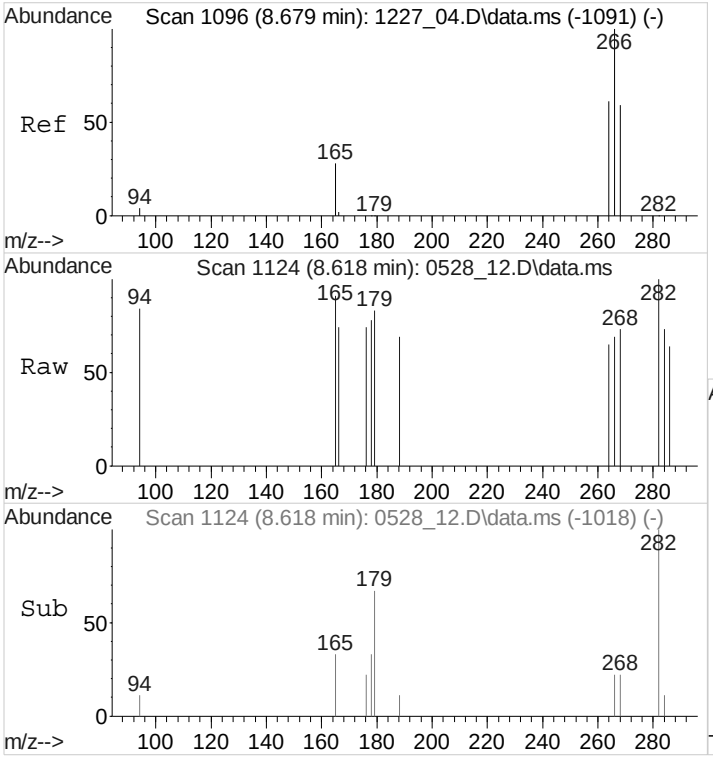


#14
Hexachlorobenzene
Concen: 0.0073862 ppb m
RT: 8.428 min Scan# 1097
Delta R.T. -0.007 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:284 Resp: 21

Ion	Ratio	Lower	Upper
284	100		
286	76.1	59.6	89.4
282	216.4	45.5	68.3#

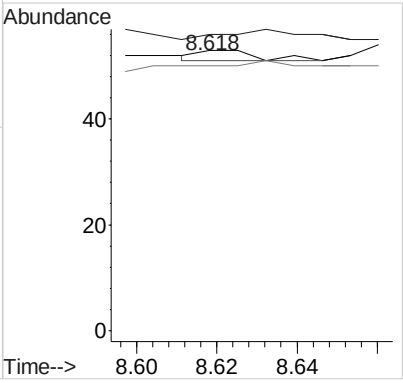


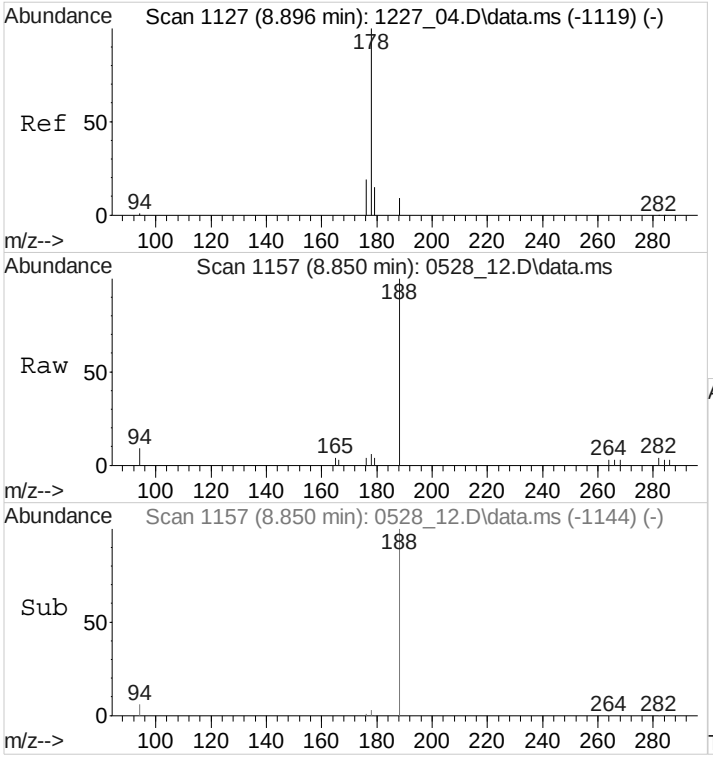


#15
Pentachlorophenol
Concen: 1.1175501 ppb
RT: 8.618 min Scan# 1124
Delta R.T. -0.007 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:266 Resp: 2

Ion	Ratio	Lower	Upper
266	100		
268	50.0	48.4	72.6
264	0.0	51.8	77.6#

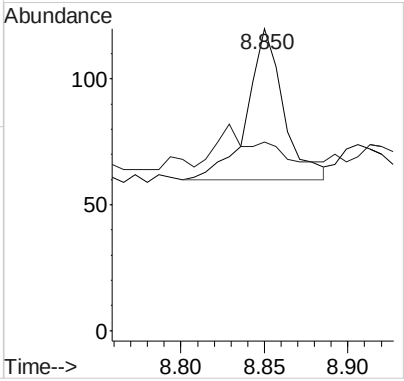


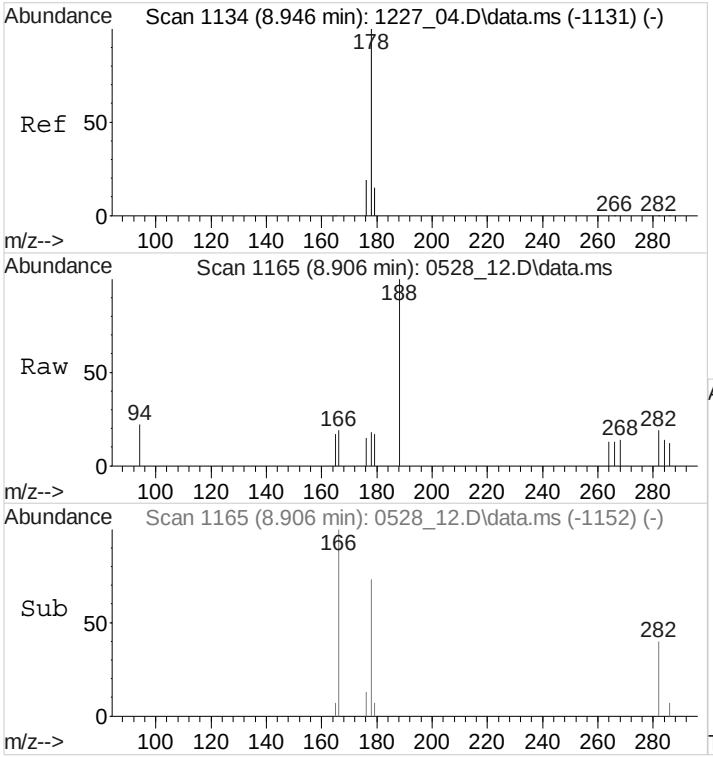


#16
Phenanthrene
Concen: 0.0069141 ppb
RT: 8.850 min Scan# 1157
Delta R.T. -0.007 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:178 Resp: 91

Ion	Ratio	Lower	Upper
178	100		
179	13.3	0.0	35.0

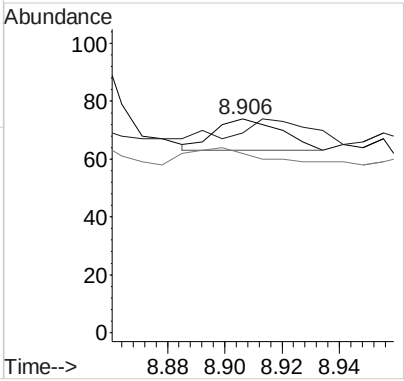


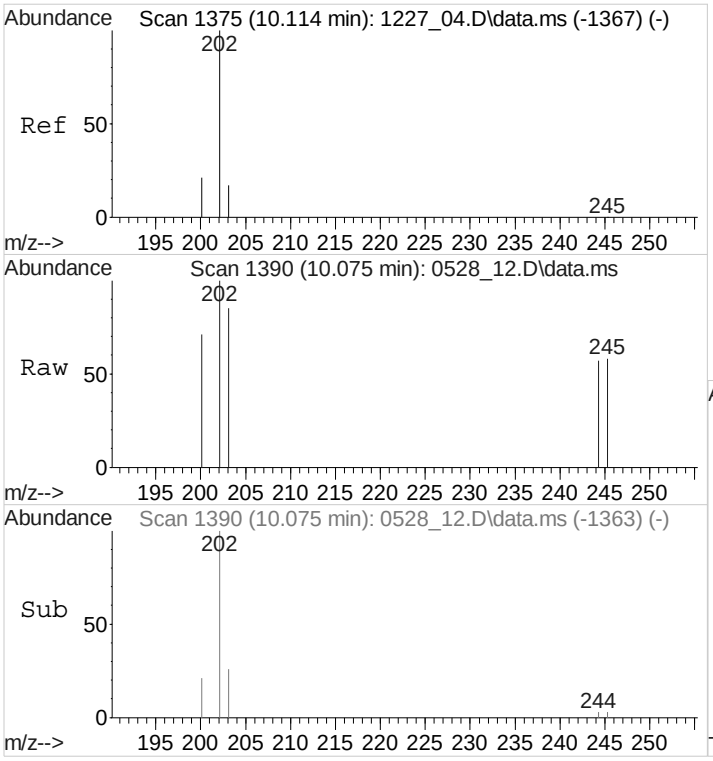


#17
Anthracene
Concen: 0.0014260 ppb
RT: 8.906 min Scan# 1165
Delta R.T. -0.007 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:178 Resp: 18

Ion	Ratio	Lower	Upper
178	100		
179	18.2	0.0	35.5
176	27.3	0.0	38.1

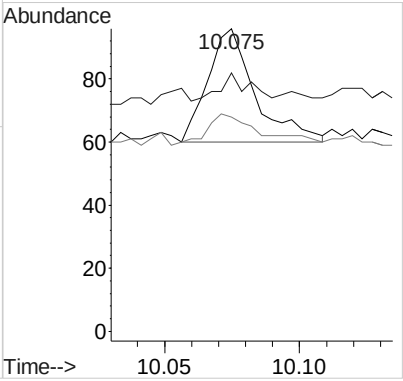


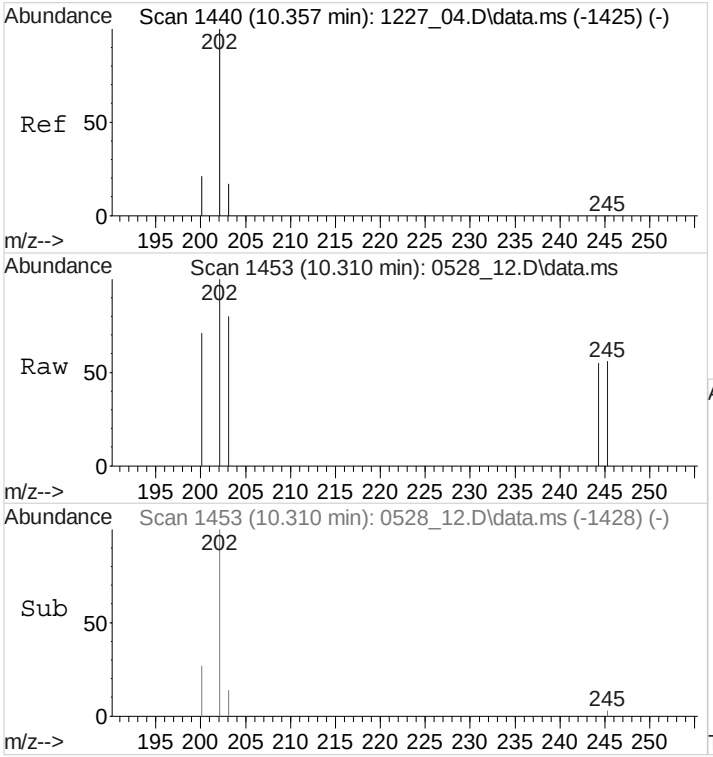


#18
Fluoranthene
Concen: 0.0030924 ppb
RT: 10.075 min Scan# 1390
Delta R.T. -0.000 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:202 Resp: 44

Ion	Ratio	Lower	Upper
202	100		
203	22.2	0.0	36.7
200	22.2	0.8	40.8

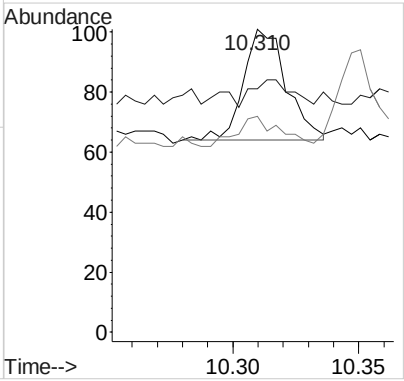


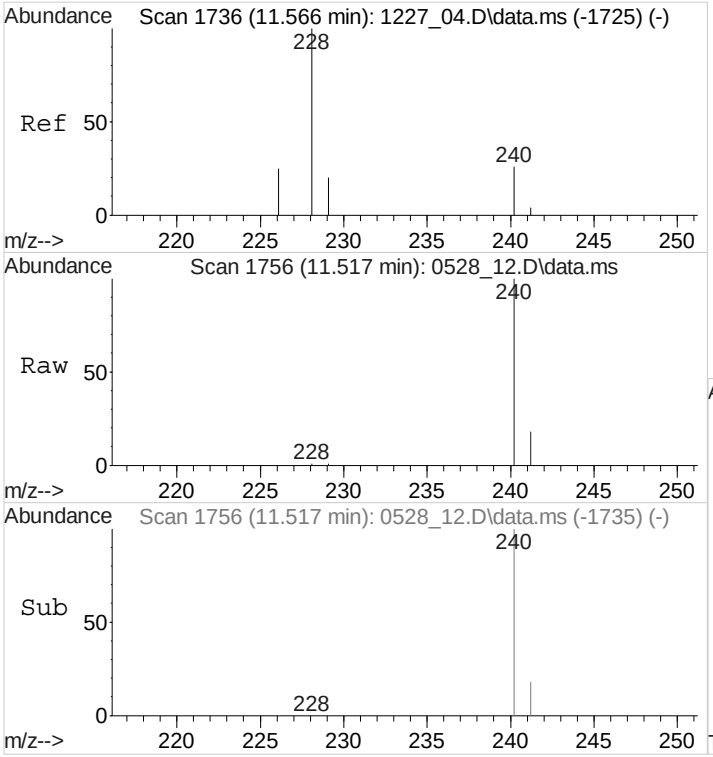


#20
Pyrene
Concen: 0.0035684 ppb
RT: 10.310 min Scan# 1453
Delta R.T. -0.008 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:202 Resp: 44

Ion	Ratio	Lower	Upper
202	100		
203	5.4	0.0	37.2
200	18.9	0.7	40.7

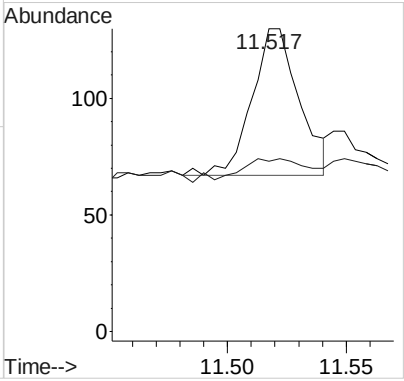


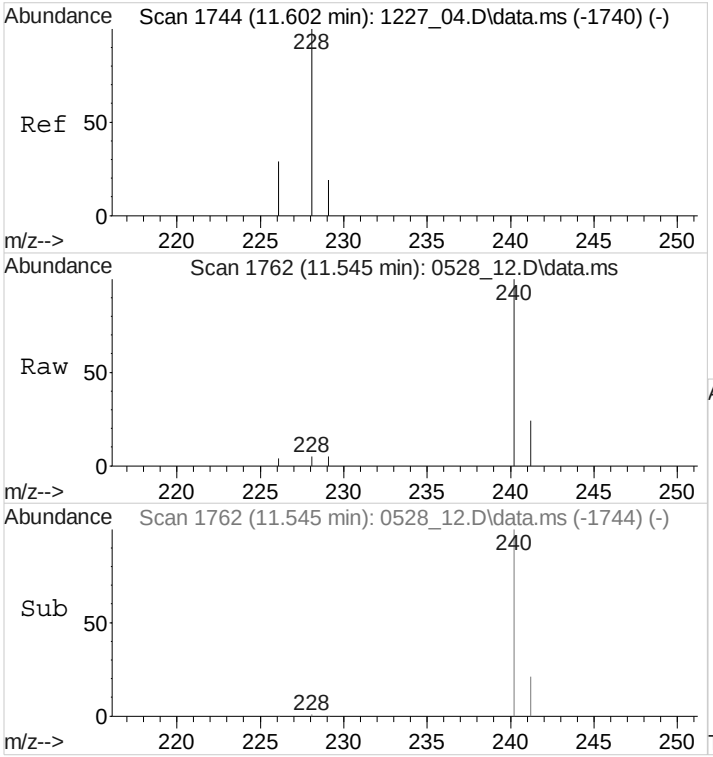


#22
Benzo(a)anthracene
Concen: 0.0069580 ppb
RT: 11.517 min Scan# 1756
Delta R.T. -0.005 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:228 Resp: 88

Ion	Ratio	Lower	Upper
228	100		
226	9.5	7.6	47.6

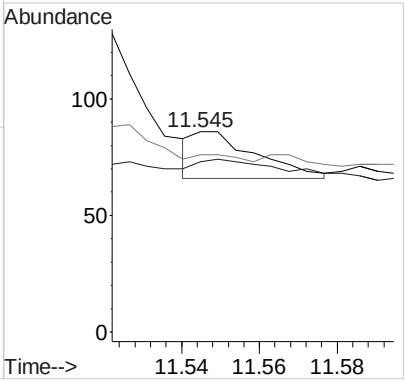


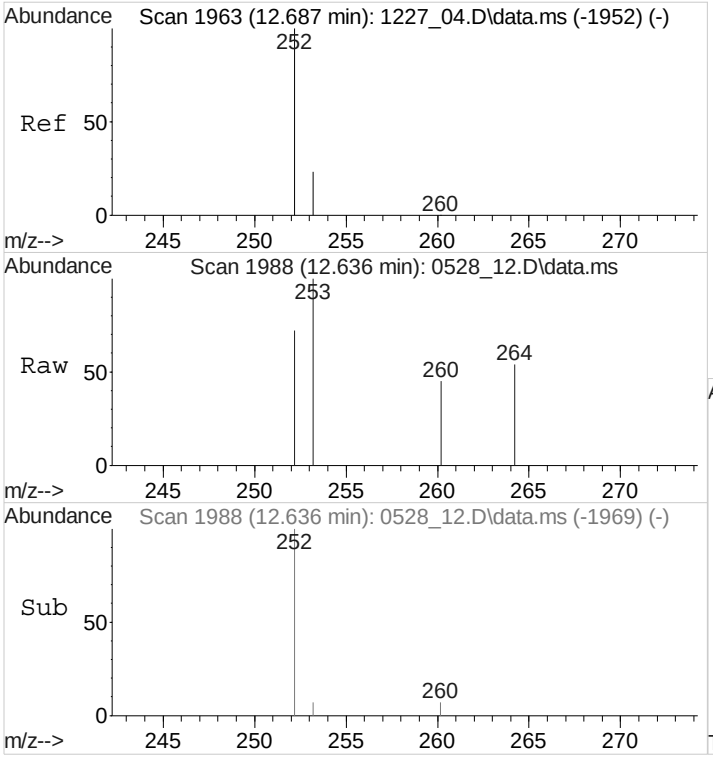


#23
Chrysene
Concen: 0.0018327 ppb m
RT: 11.545 min Scan# 1762
Delta R.T. -0.018 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:228 Resp: 22

Ion	Ratio	Lower	Upper
228	100		
226	84.9	9.0	49.0#
229	88.4	0.0	39.5#

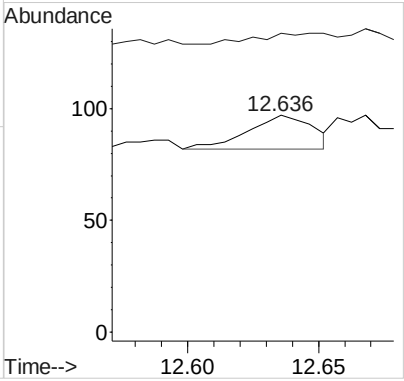


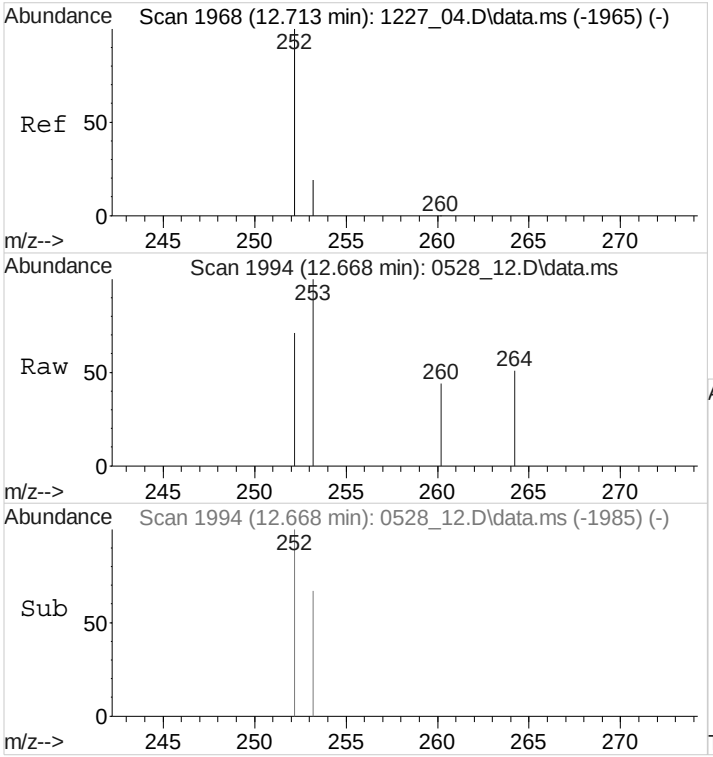


#25
Benzo(b)fluoranthene
Concen: 0.0021470 ppb
RT: 12.636 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:252 Resp: 26

Ion	Ratio	Lower	Upper
252	100		
253	33.3	2.4	42.4

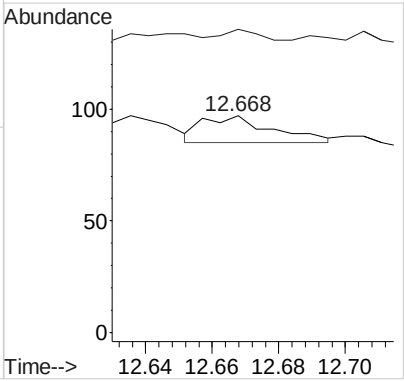


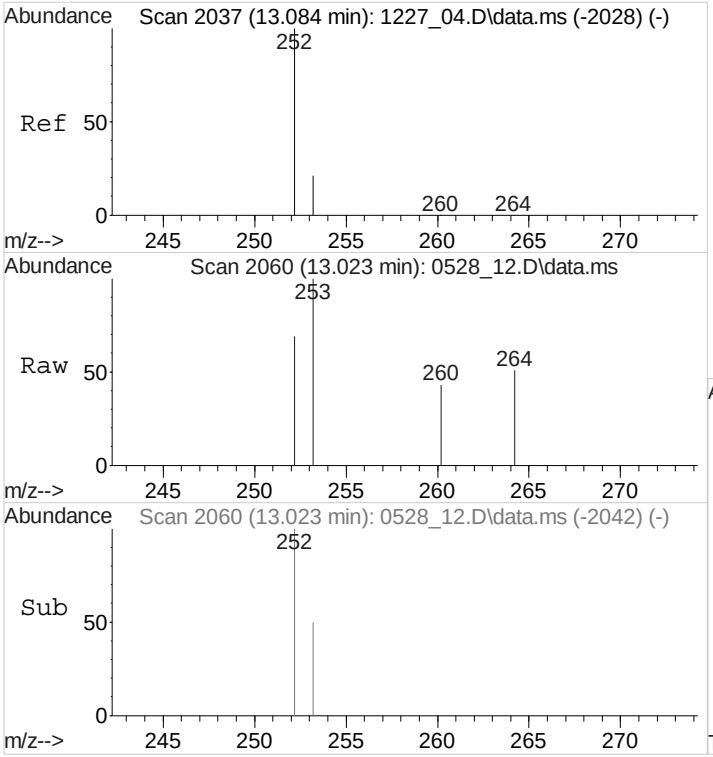


#26
Benzo(k)fluoranthene
Concen: 0.0014898 ppb m
RT: 12.668 min Scan# 1994
Delta R.T. -0.000 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:252 Resp: 17

Ion	Ratio	Lower	Upper
252	100		
253	140.2	0.3	40.3#

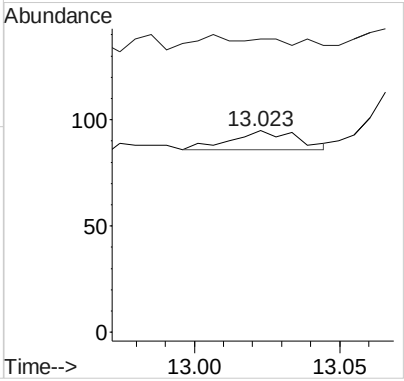


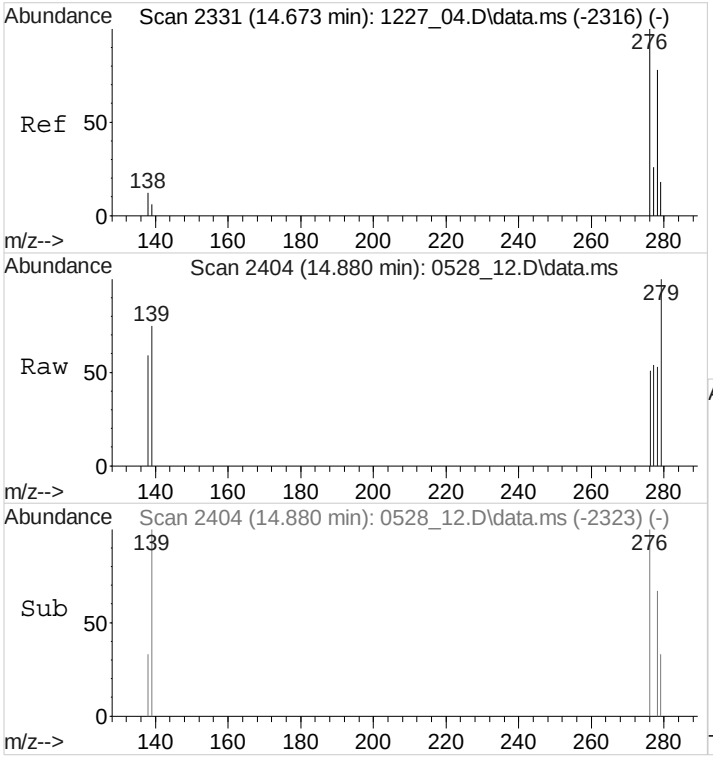


#27
Benzo(a)pyrene
Concen: 0.0013656 ppb
RT: 13.023 min Scan# 2060
Delta R.T. -0.005 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:252 Resp: 14

Ion	Ratio	Lower	Upper
252	100		
253	33.3	1.8	41.8

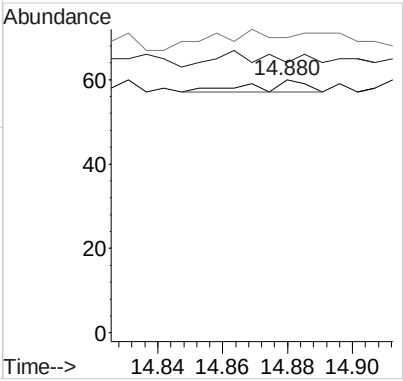


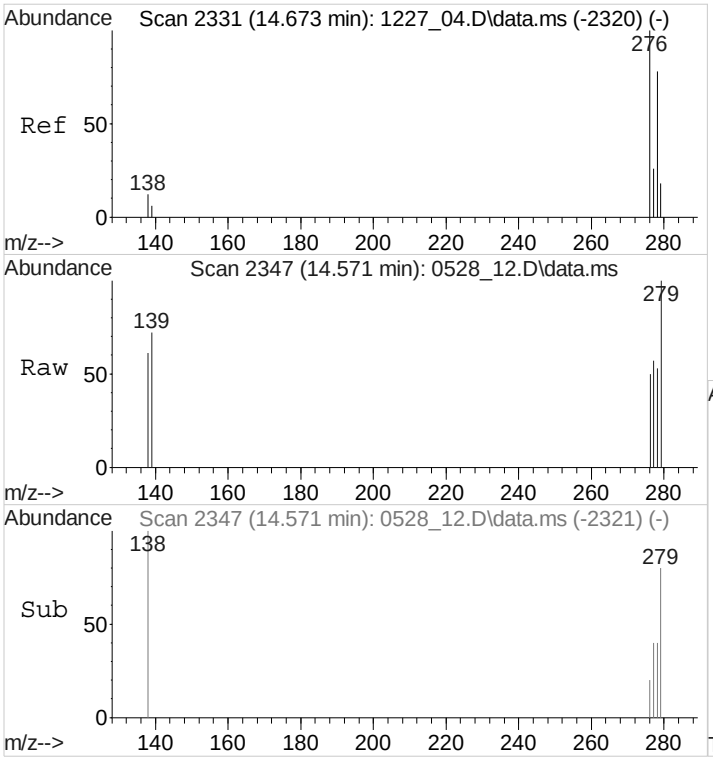


#28
Indeno(1,2,3-cd)pyrene
Concen: 0.0002364 ppb
RT: 14.880 min Scan# 2404
Delta R.T. 0.287 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:276 Resp: 3

Ion	Ratio	Lower	Upper
276	100		
277	33.3	6.2	46.2
138	33.3	9.0	49.0

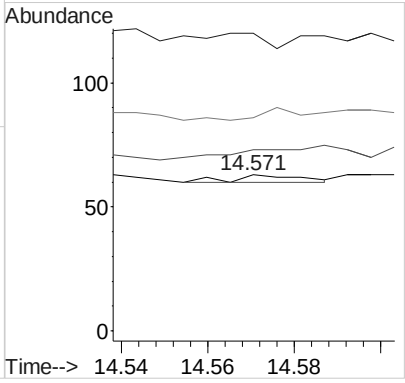


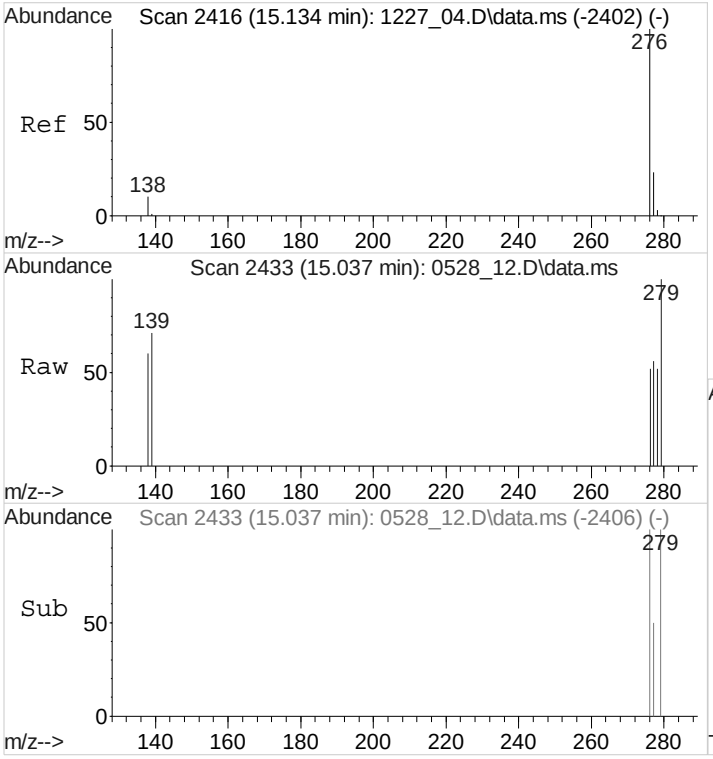


#29
Dibenz(a,h)anthracene
Concen: 0.0002817 ppb
RT: 14.571 min Scan# 2347
Delta R.T. -0.011 min
Lab File: 0528 12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:278 Resp: 3

Ion	Ratio	Lower	Upper
278	100		
279	33.3	3.6	43.6
139	33.3	0.0	38.9
138	100.0	11.7	51.7#

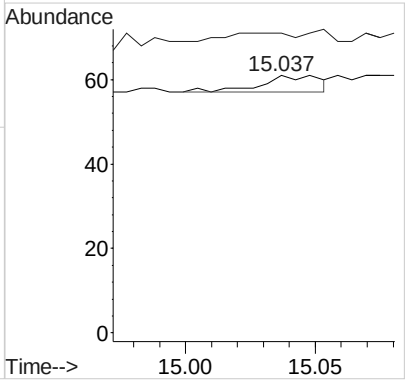




#30
Benzo(g,h,i)perylene
Concen: 0.0006527 ppb
RT: 15.037 min Scan# 2433
Delta R.T. -0.005 min
Lab File: 0528_12.D
Acq: 29 May 2015 3:29 am

Tgt Ion:276 Resp: 7

Ion	Ratio	Lower	Upper
276	100		
138	50.0	5.4	45.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 13.D
Acq On : 29 May 2015 3:51 am
Operator : 282
Sample : MS 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 75 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:04:57 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

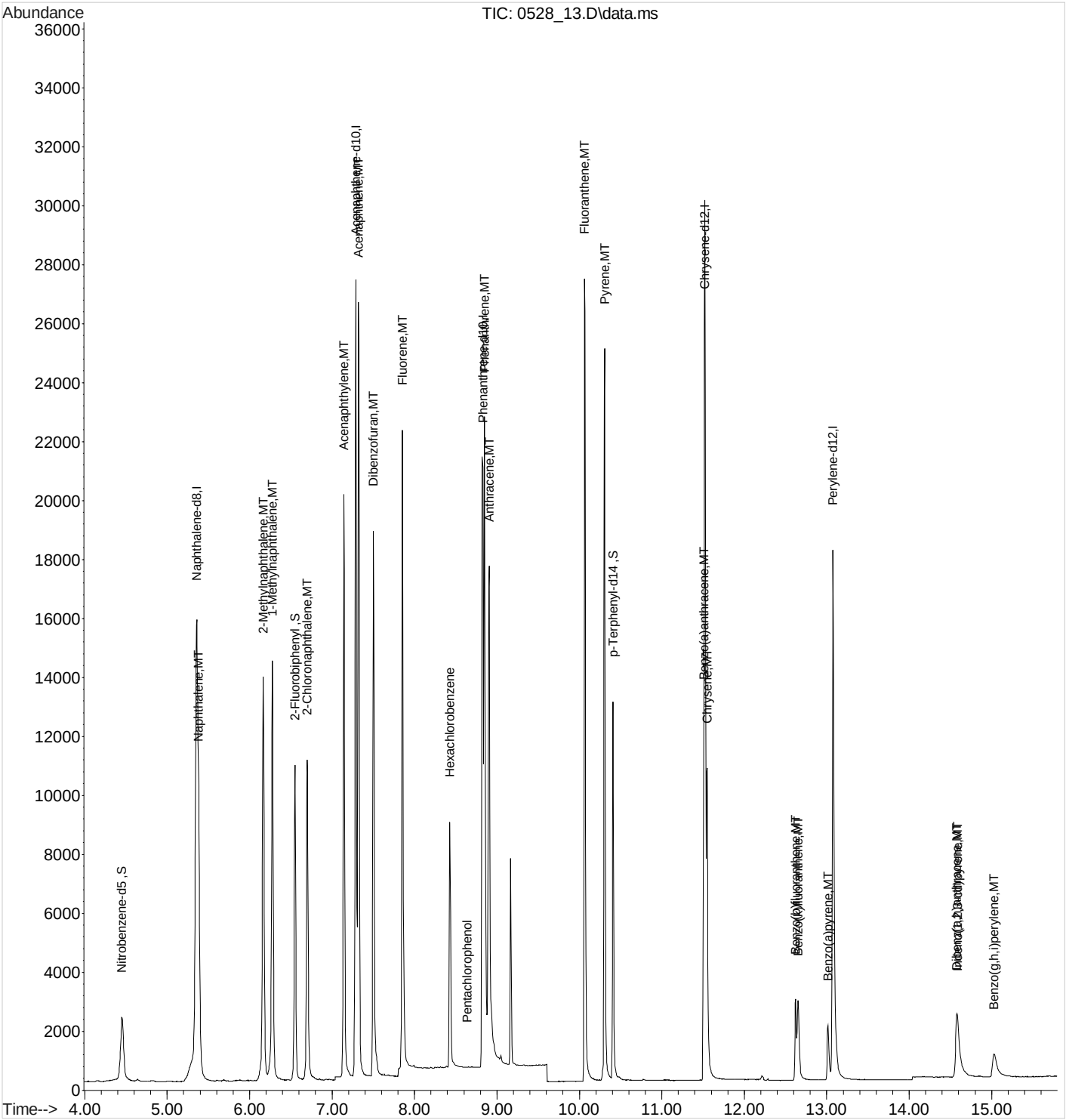
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	25300	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.287	164	15287	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.829	188	25078	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	24761	40.0000000	ppb	0.00
24) Perylene-d12	13.076	264	24193	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.449	82	4781m	1.3368420	ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 66.84%			
7) 2-Fluorobiphenyl	6.550	172	10214	1.0364197	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 51.82%#			
21) p-Terphenyl-d14	10.407	244	10577	1.0088072	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 50.44%#			
Target Compounds						Qvalue
3) Naphthalene	5.382	128	16247	1.3604787	ppb	100
4) 2-Methylnaphthalene	6.167	142	11185	1.3705585	ppb	98
5) 1-Methylnaphthalene	6.276	142	10342	1.3502371	ppb	99
8) 2-Chloronaphthalene	6.698	162	11422	1.3036738	ppb	94
9) Acenaphthylene	7.144	152	17285	1.3580369	ppb	99
10) Acenaphthene	7.321	153	12282	1.3760971	ppb	97
11) Dibenzofuran	7.502	168	15532	1.3549104	ppb	98
12) Fluorene	7.852	166	12872	1.3115653	ppb	99
14) Hexachlorobenzene	8.428	284	3688	1.2537672	ppb	97
15) Pentachlorophenol	8.639	266	3	1.1185779	ppb #	19
16) Phenanthrene	8.850	178	17190	1.2623840	ppb	99
17) Anthracene	8.906	178	18887	1.4461640	ppb	100
18) Fluoranthene	10.064	202	19837	1.3475550	ppb	99
20) Pyrene	10.306	202	17893	1.4107560	ppb	99
22) Benzo(a)anthracene	11.508	228	7150	0.5496101	ppb	99
23) Chrysene	11.549	228	7626	0.6175863	ppb	99
25) Benzo(b)fluoranthene	12.625	252	2970	0.2377085	ppb	99
26) Benzo(k)fluoranthene	12.652	252	3698	0.3141003	ppb	97
27) Benzo(a)pyrene	13.017	252	2778	0.2626481	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.587	276	2856	0.2181089	ppb	92
29) Dibenz(a,h)anthracene	14.576	278	2510	0.2284212	ppb	89
30) Benzo(g,h,i)perylene	15.026	276	2243	0.2027186	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 13.D
Acq On : 29 May 2015 3:51 am
Operator : 282
Sample : MS 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 75 Sample Multiplier: 0.055
InstName : BNAMS13

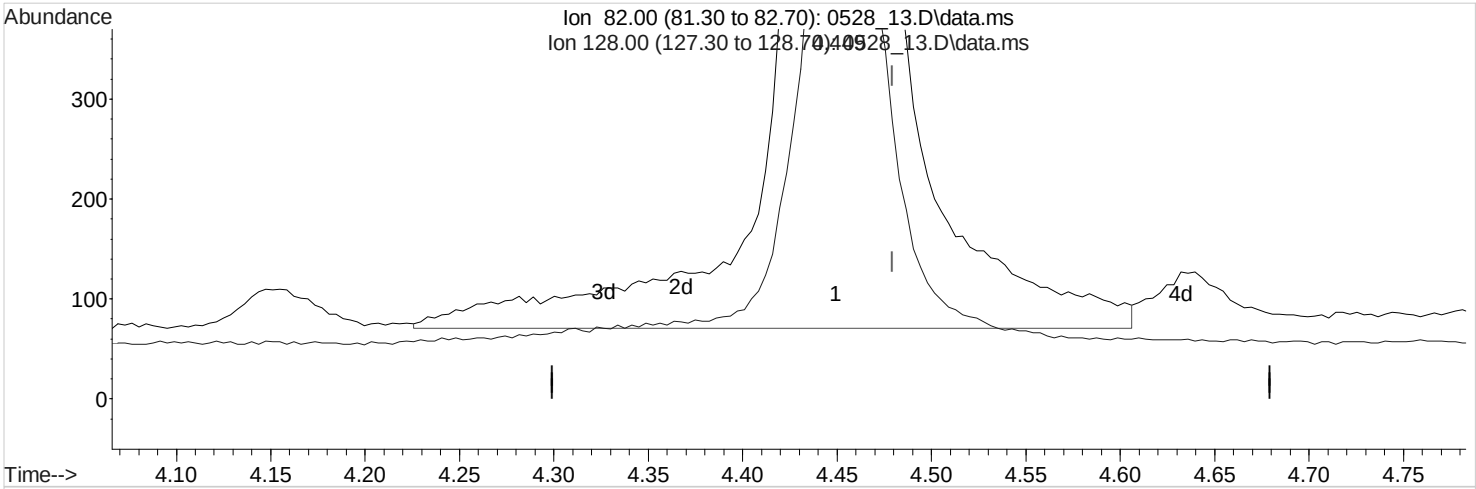
Quant Time: May 29 09:04:57 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

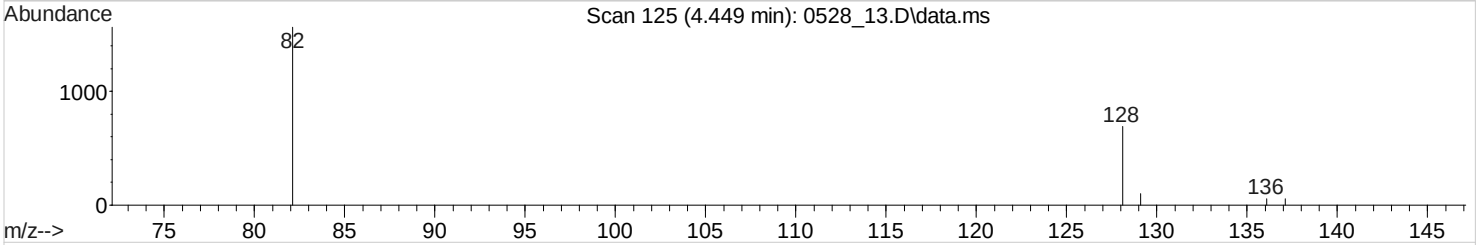


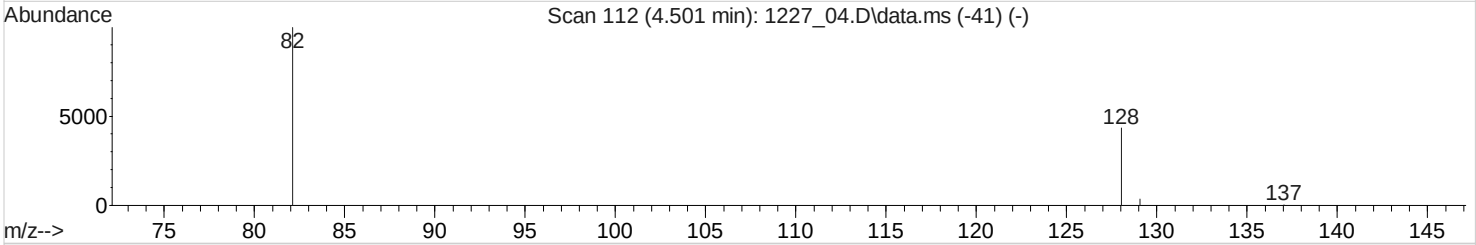
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 13.D
Acq On : 29 May 2015 3:51 am
Operator : 282
Sample : MS 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 75 Sample Multiplier: 0.056
InstName : BNAMS13

Quant Time: May 29 07:39:05 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_13.D\data.ms

(2) Nitrobenzene-d5 (S)

4.449min (-0.030) 1.3611482 ppb m

response 4781

Ion	Exp%	Act%
82.00	100	100
128.00	47.90	43.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 14.D
Acq On : 29 May 2015 4:12 am
Operator : 282
Sample : MSD 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 76 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:05:24 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

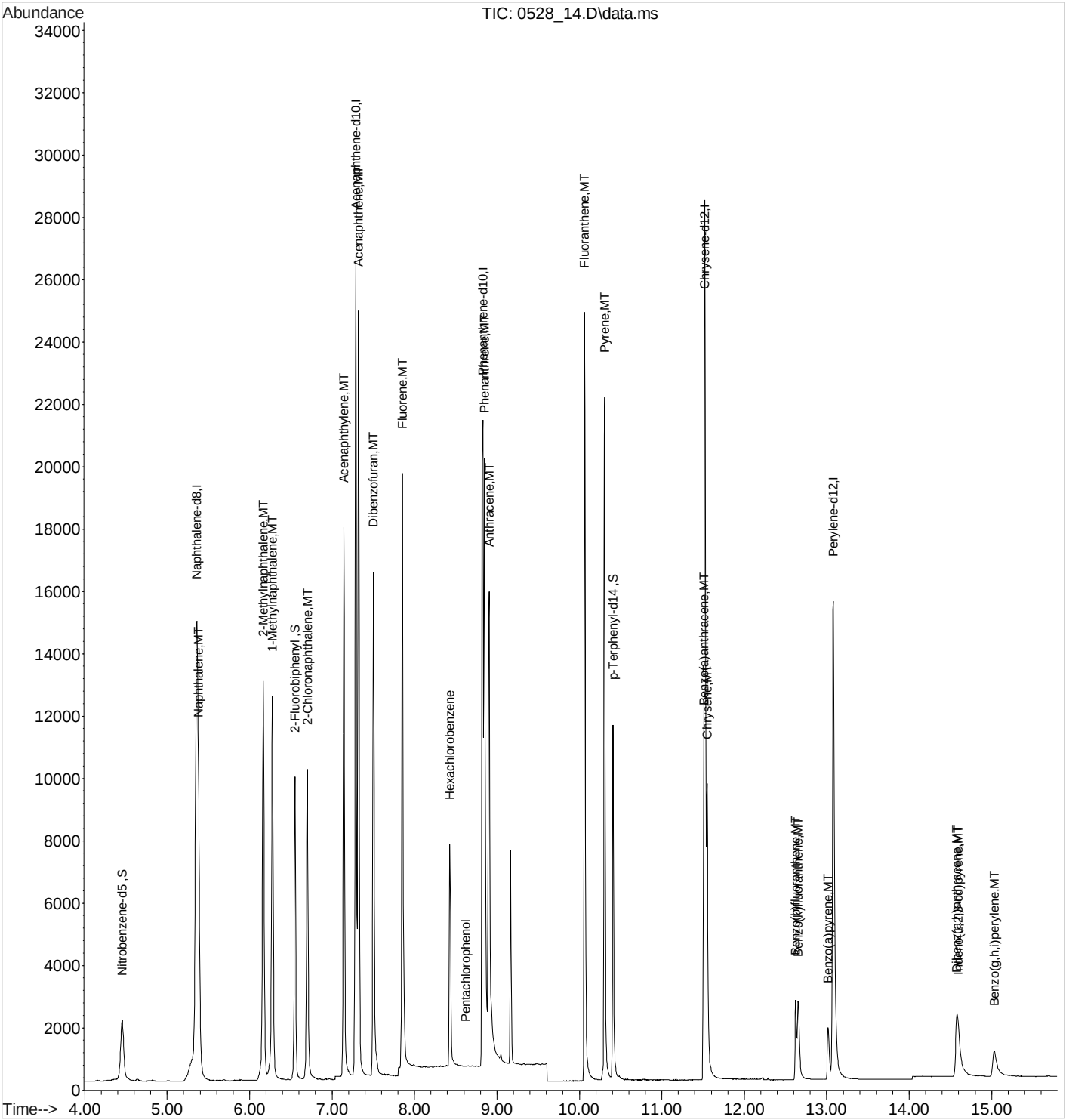
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	24977	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.287	164	15143	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.829	188	24415	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	24254	40.0000000	ppb	0.00
24) Perylene-d12	13.082	264	23632	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.453	82	4324m	1.2246931	ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 61.23%			
7) 2-Fluorobiphenyl	6.550	172	9048	0.9268356	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 46.34%#			
21) p-Terphenyl-d14	10.410	244	9757	0.9500507	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 47.50%#			
Target Compounds						Qvalue
3) Naphthalene	5.378	128	14746	1.2507573	ppb	100
4) 2-Methylnaphthalene	6.167	142	10090	1.2523710	ppb	98
5) 1-Methylnaphthalene	6.276	142	9354	1.2370382	ppb	97
8) 2-Chloronaphthalene	6.702	162	10294	1.1861000	ppb	100
9) Acenaphthylene	7.144	152	15568	1.2347680	ppb	99
10) Acenaphthene	7.321	153	10998	1.2439532	ppb	98
11) Dibenzofuran	7.502	168	13976	1.2307687	ppb	98
12) Fluorene	7.852	166	11497	1.1826025	ppb	100
14) Hexachlorobenzene	8.428	284	3317	1.1582642	ppb	97
15) Pentachlorophenol	8.618	266	6	1.1220702	ppb #	41
16) Phenanthrene	8.850	178	15841	1.1949077	ppb	100
17) Anthracene	8.906	178	16667	1.3108354	ppb	100
18) Fluoranthene	10.064	202	17917	1.2501784	ppb	99
20) Pyrene	10.306	202	16175	1.3019606	ppb	99
22) Benzo(a)anthracene	11.508	228	6426	0.5042828	ppb	100
23) Chrysene	11.549	228	7078	0.5851891	ppb	99
25) Benzo(b)fluoranthene	12.625	252	2498	0.2046774	ppb	100
26) Benzo(k)fluoranthene	12.652	252	3738	0.3250349	ppb	100
27) Benzo(a)pyrene	13.017	252	2686	0.2599784	ppb	97
28) Indeno(1,2,3-cd)pyrene	14.592	276	2849	0.2227393	ppb	89
29) Dibenz(a,h)anthracene	14.576	278	2467	0.2298376	ppb	89
30) Benzo(g,h,i)perylene	15.032	276	2166	0.2004066	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 14.D
Acq On : 29 May 2015 4:12 am
Operator : 282
Sample : MSD 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 76 Sample Multiplier: 0.055
InstName : BNAMS13

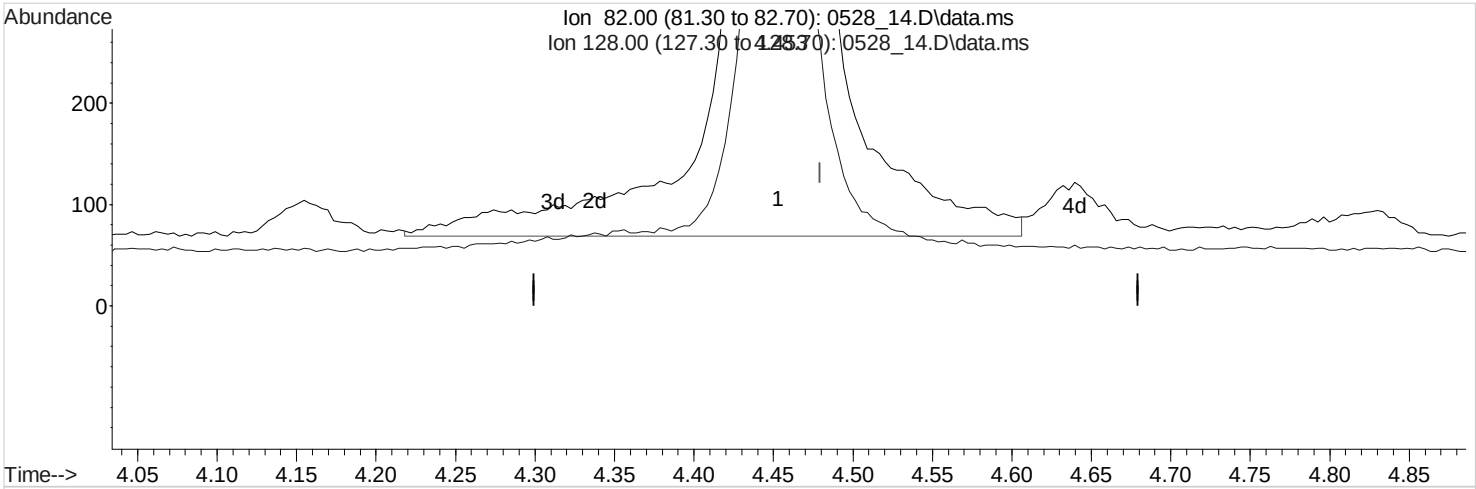
Quant Time: May 29 09:05:24 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

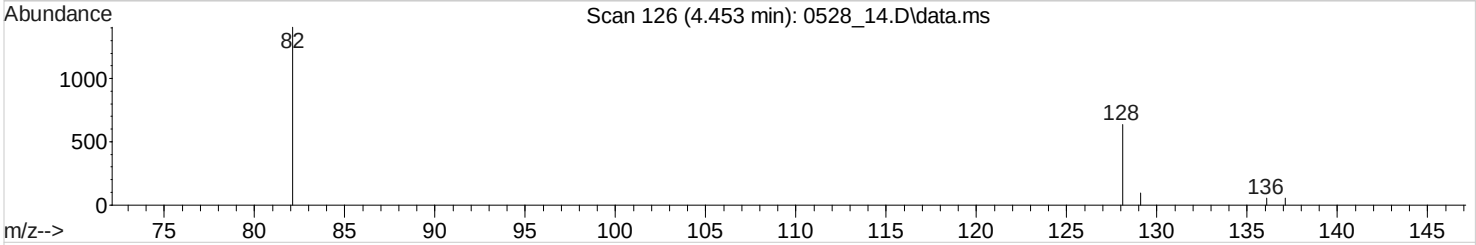


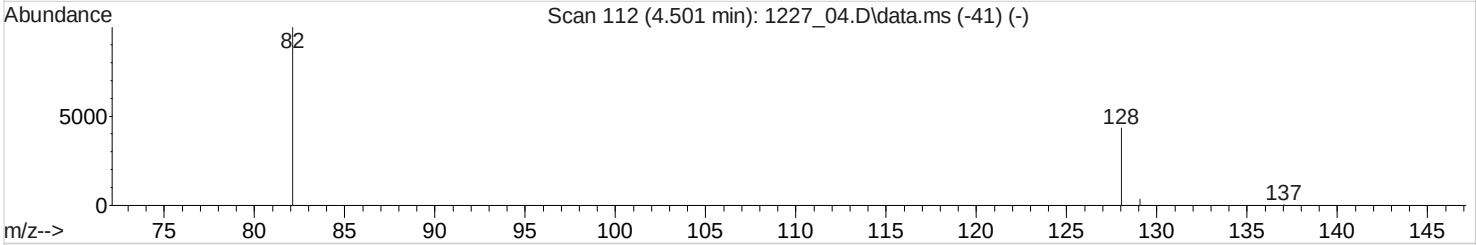
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 14.D
Acq On : 29 May 2015 4:12 am
Operator : 282
Sample : MSD 1.11x WG792025 L767115-07 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 76 Sample Multiplier: 0.056
InstName : BNAMS13

Quant Time: May 29 07:39:09 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_14.D\data.ms

(2) Nitrobenzene-d5 (S)

4.453min (-0.026) 1.2469603 ppb m

response 4324

Ion	Exp%	Act%
82.00	100	100
128.00	47.90	45.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 15.D
Acq On : 29 May 2015 4:34 am
Operator : 282
Sample : L767115-09 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 77 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:05:58 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

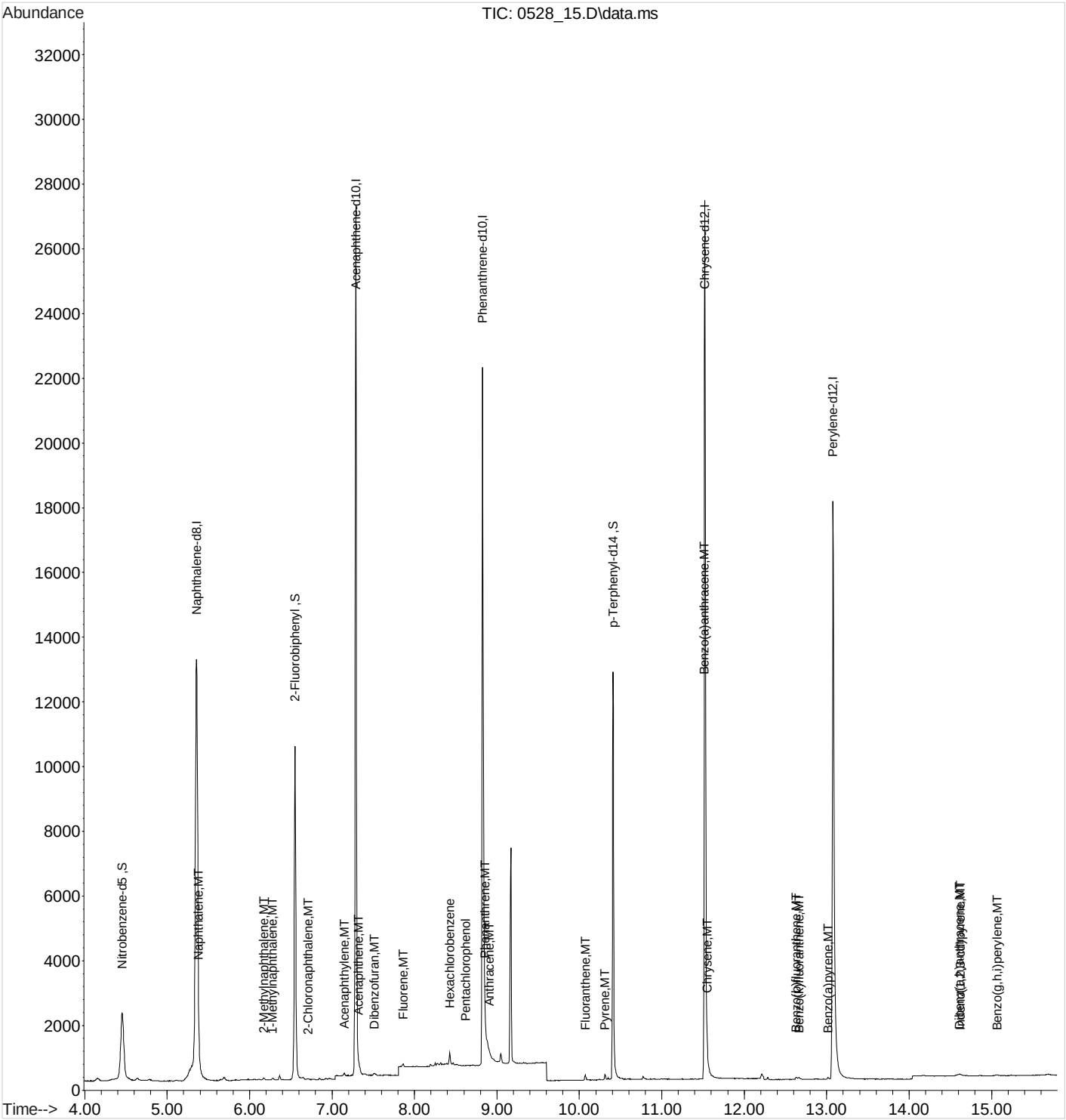
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.356	136	25014	40.0000000	ppb	-0.02
6) Acenaphthene-d10	7.287	164	15291	40.0000000	ppb	-0.01
13) Phenanthrene-d10	8.825	188	24675	40.0000000	ppb	0.00
19) Chrysene-d12	11.522	240	25119	40.0000000	ppb	0.00
24) Perylene-d12	13.077	264	24418	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.453	82	4389m	1.2412644	ppb	-0.03
Spiked Amount 2.000	Range 45 - 170		Recovery = 62.06%			
7) 2-Fluorobiphenyl	6.550	172	9835	0.9977013	ppb	-0.01
Spiked Amount 2.000	Range 58 - 153		Recovery = 49.89%#			
21) p-Terphenyl-d14	10.407	244	10528	0.9898226	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 49.49%#			
Target Compounds						Qvalue
3) Naphthalene	5.382	128	218	0.0184634	ppb	97
4) 2-Methylnaphthalene	6.170	142	53	0.0065686	ppb	97
5) 1-Methylnaphthalene	6.276	142	43	0.0056782	ppb	95
8) 2-Chloronaphthalene	6.710	162	35	0.0039938	ppb	73
9) Acenaphthylene	7.147	152	65	0.0051055	ppb	90
10) Acenaphthene	7.321	153	71	0.0079529	ppb	89
11) Dibenzofuran	7.513	168	81	0.0070641	ppb	93
12) Fluorene	7.863	166	78m	0.0079456	ppb	
14) Hexachlorobenzene	8.425	284	36	0.0124384	ppb #	1
15) Pentachlorophenol	8.622	266	1	1.1163875	ppb #	33
16) Phenanthrene	8.854	178	199	0.0148527	ppb	93
17) Anthracene	8.910	178	123	0.0095718	ppb	93
18) Fluoranthene	10.071	202	142	0.0098038	ppb	97
20) Pyrene	10.310	202	135	0.0104922	ppb	97
22) Benzo(a)anthracene	11.513	228	158	0.0119721	ppb	84
23) Chrysene	11.550	228	88	0.0070250	ppb	87
25) Benzo(b)fluoranthene	12.630	252	80	0.0063439	ppb	94
26) Benzo(k)fluoranthene	12.663	252	80	0.0067324	ppb	78
27) Benzo(a)pyrene	13.018	252	64	0.0059952	ppb	93
28) Indeno(1,2,3-cd)pyrene	14.620	276	69	0.0052209	ppb	97
29) Dibenz(a,h)anthracene	14.609	278	65	0.0058608	ppb	81
30) Benzo(g,h,i)perylene	15.064	276	62	0.0055518	ppb	64

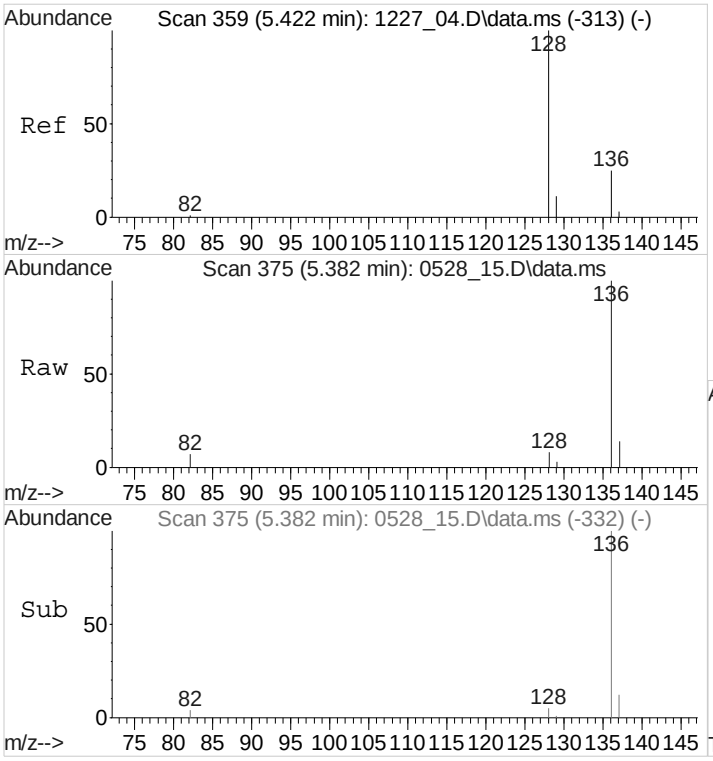
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 15.D
Acq On : 29 May 2015 4:34 am
Operator : 282
Sample : L767115-09 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 77 Sample Multiplier: 0.055
InstName : BNAMS13

Quant Time: May 29 09:05:58 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

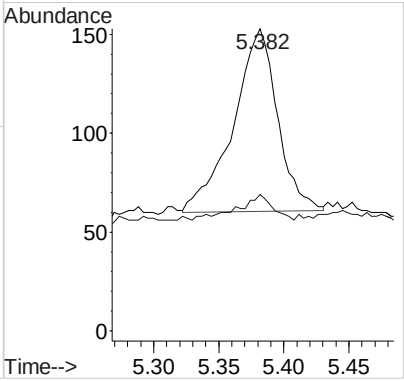


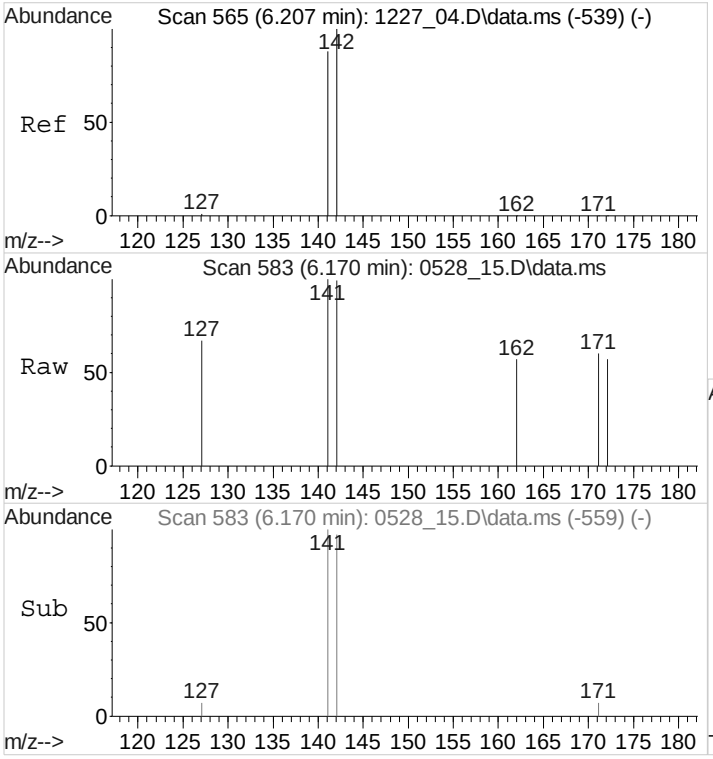


#3
Naphthalene
Concen: 0.0184634 ppb
RT: 5.382 min Scan# 375
Delta R.T. -0.019 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:128 Resp: 218

Ion	Ratio	Lower	Upper
128	100		
129	12.0	0.0	30.9

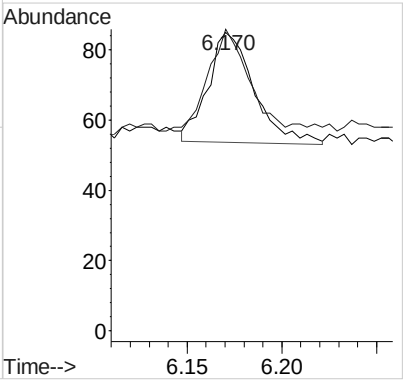


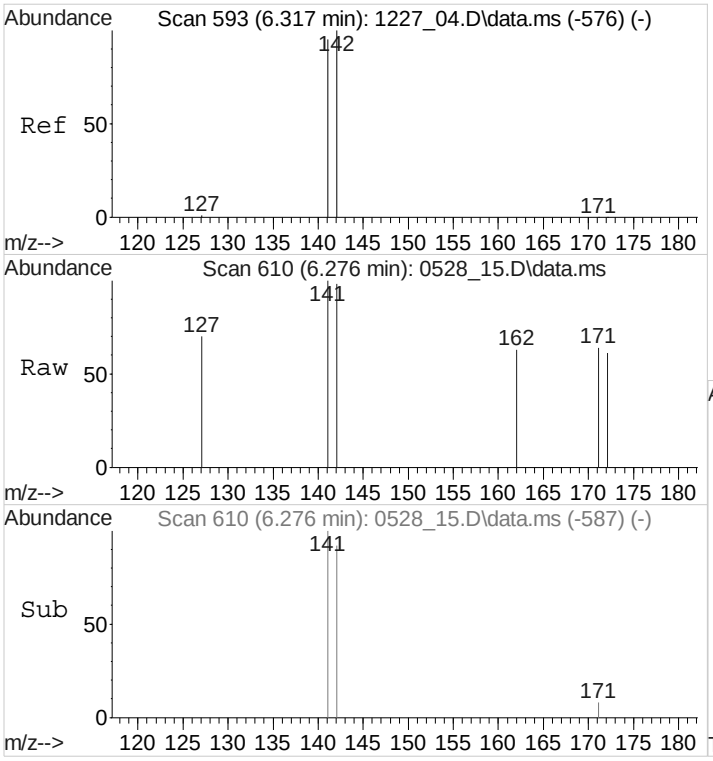


#4
2-Methylnaphthalene
Concen: 0.0065686 ppb
RT: 6.170 min Scan# 583
Delta R.T. -0.008 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:142 Resp: 53

Ion	Ratio	Lower	Upper
142	100		
141	90.3	67.1	107.1

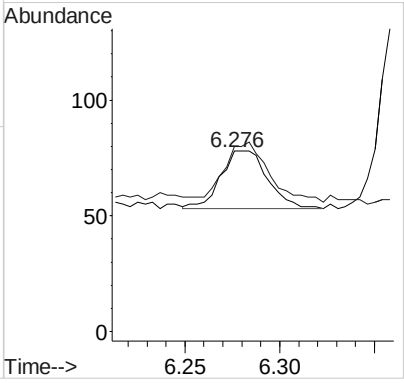


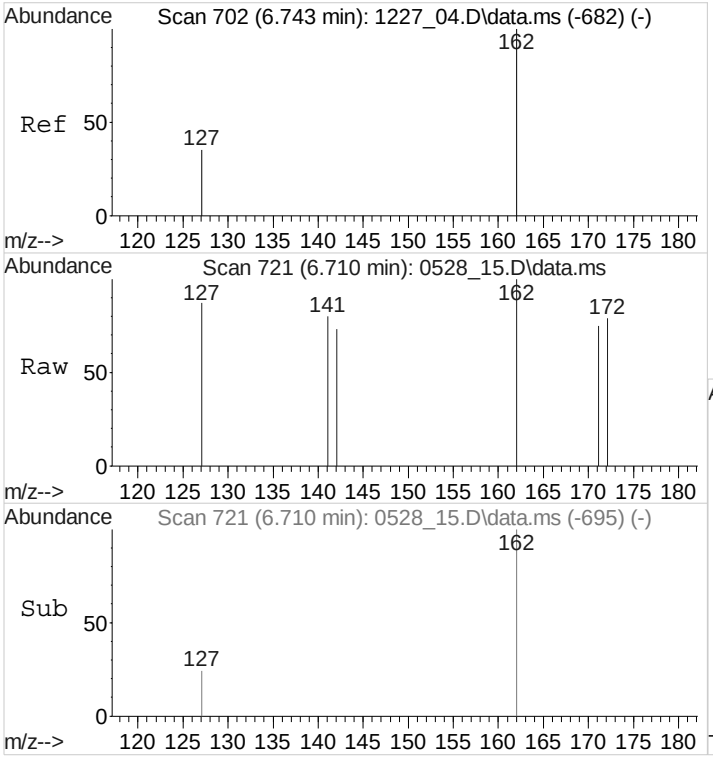


#5
1-Methylnaphthalene
Concen: 0.0056782 ppb
RT: 6.276 min Scan# 610
Delta R.T. -0.012 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:142 Resp: 43

Ion	Ratio	Lower	Upper
142	100		
141	96.0	71.6	111.6

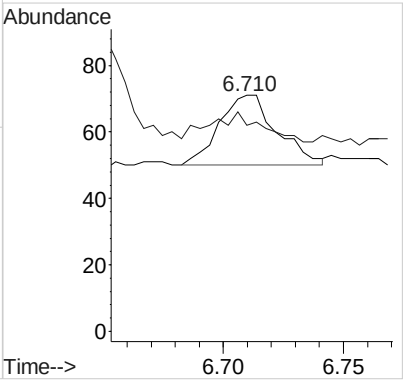


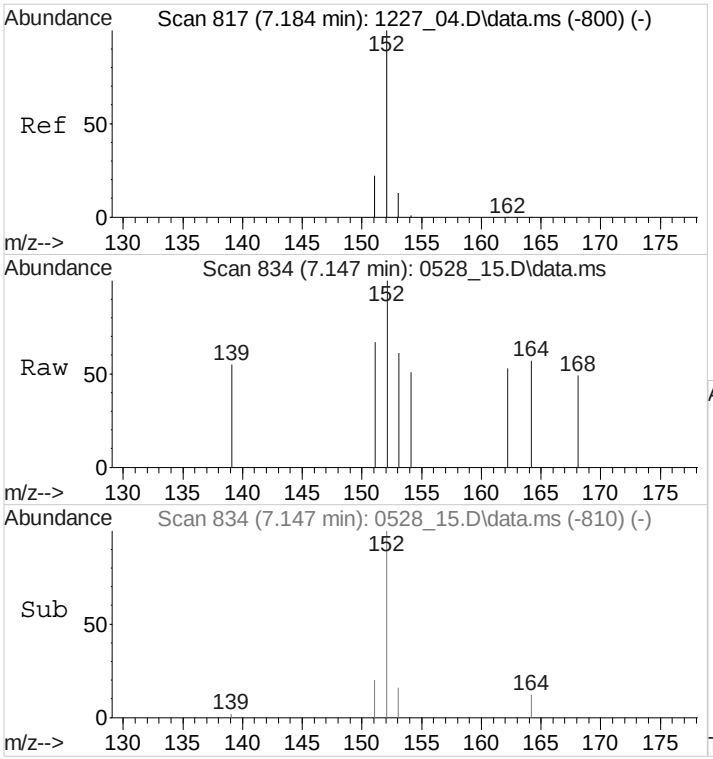


#8
2-Chloronaphthalene
Concen: 0.0039938 ppb
RT: 6.710 min Scan# 721
Delta R.T. -0.000 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:162 Resp: 35

Ion	Ratio	Lower	Upper
162	100		
127	19.0	14.7	54.7

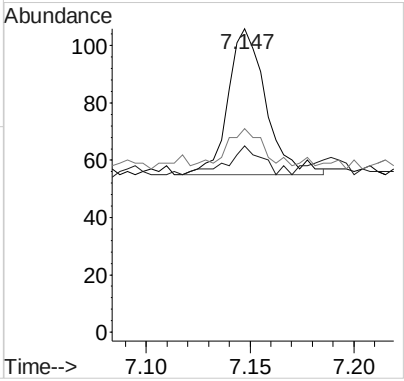


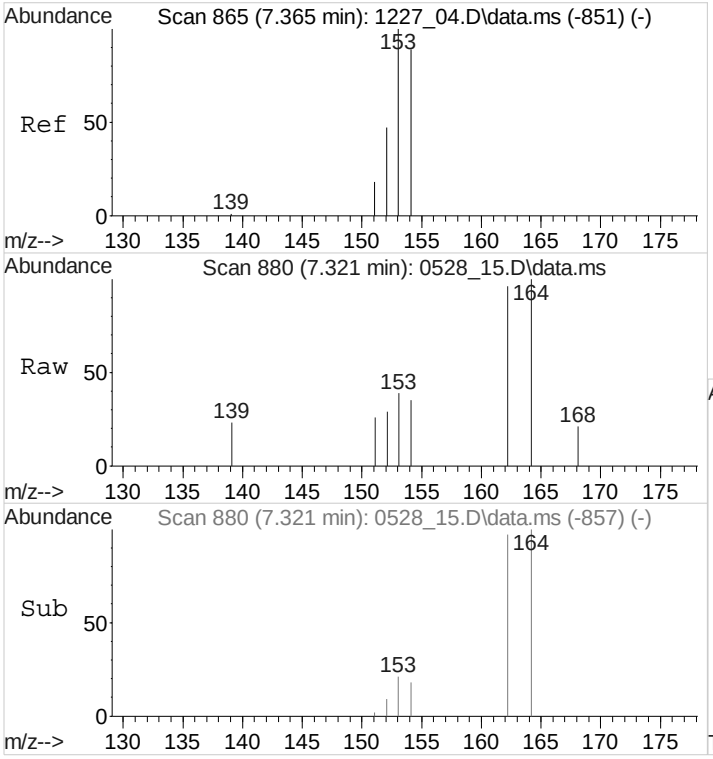


#9
Acenaphthylene
Concen: 0.0051055 ppb
RT: 7.147 min Scan# 834
Delta R.T. -0.008 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:152 Resp: 65

Ion	Ratio	Lower	Upper
152	100		
153	19.6	0.0	33.0
151	23.5	0.8	40.8

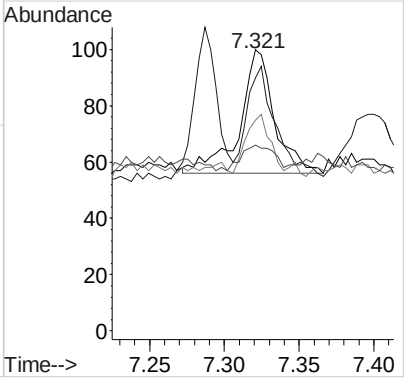


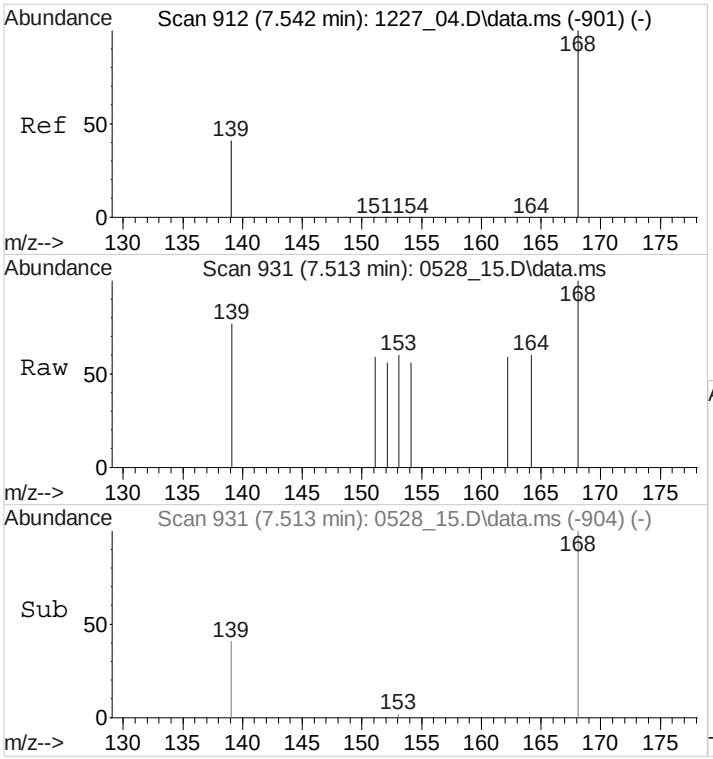


#10
Acenaphthene
Concen: 0.0079529 ppb
RT: 7.321 min Scan# 880
Delta R.T. -0.012 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:153 Resp: 71

Ion	Ratio	Lower	Upper
153	100		
154	79.5	71.0	111.0
152	40.9	27.0	67.0
151	11.4	0.0	37.6

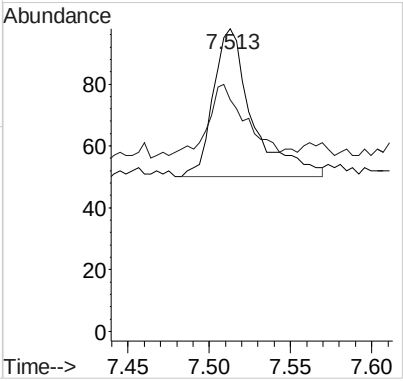


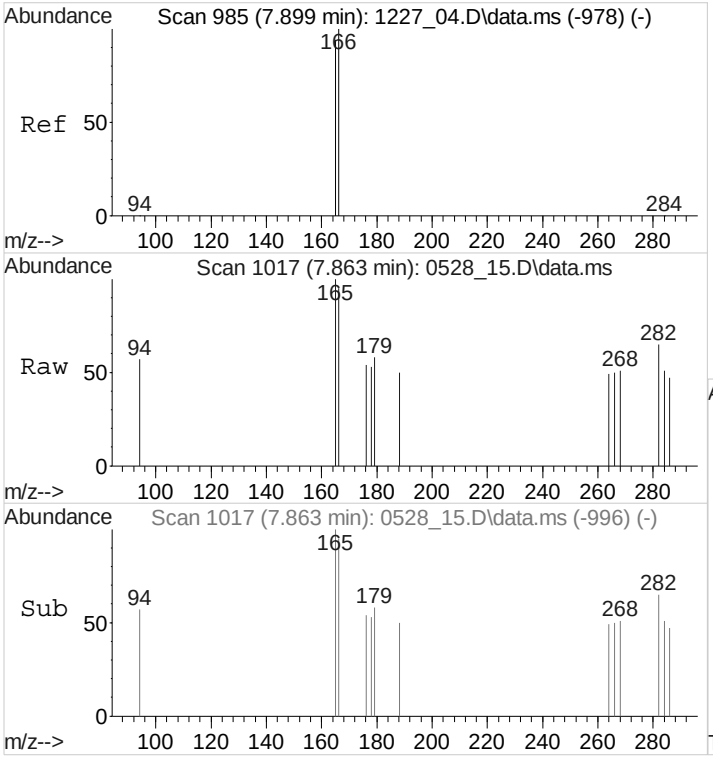


#11
Dibenzofuran
Concen: 0.0070641 ppb
RT: 7.513 min Scan# 931
Delta R.T. 0.004 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:168 Resp: 81

Ion	Ratio	Lower	Upper
168	100		
139	33.3	17.4	57.4

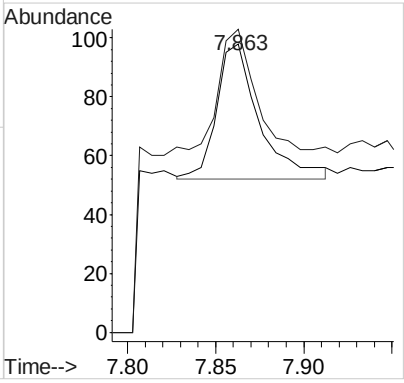


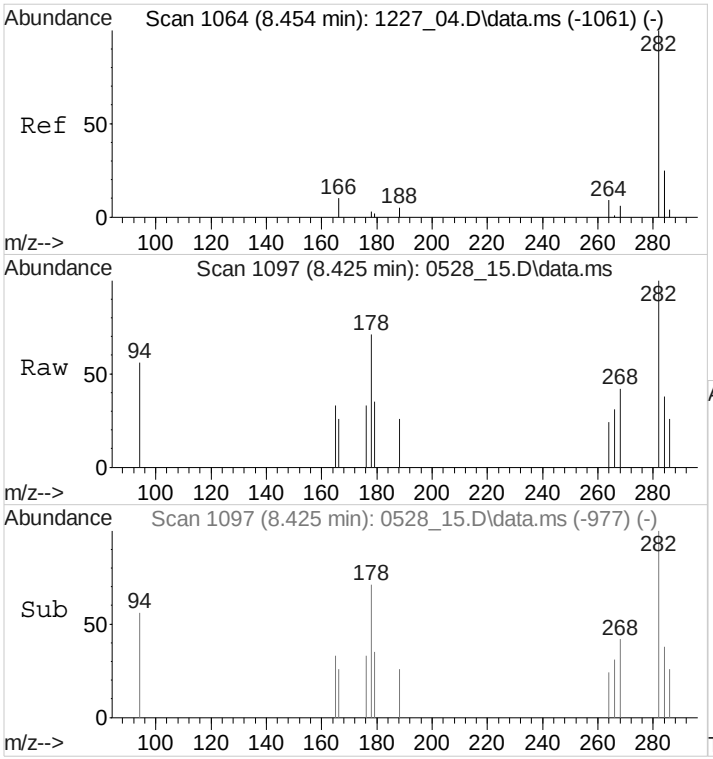


#12
Fluorene
Concen: 0.0079456 ppb m
RT: 7.863 min Scan# 1017
Delta R.T. 0.004 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:166 Resp: 78

Ion	Ratio	Lower	Upper
166	100		
165	105.1	78.8	118.8

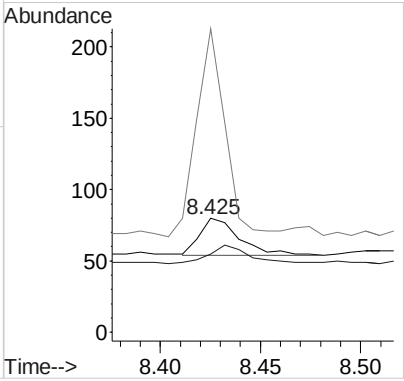


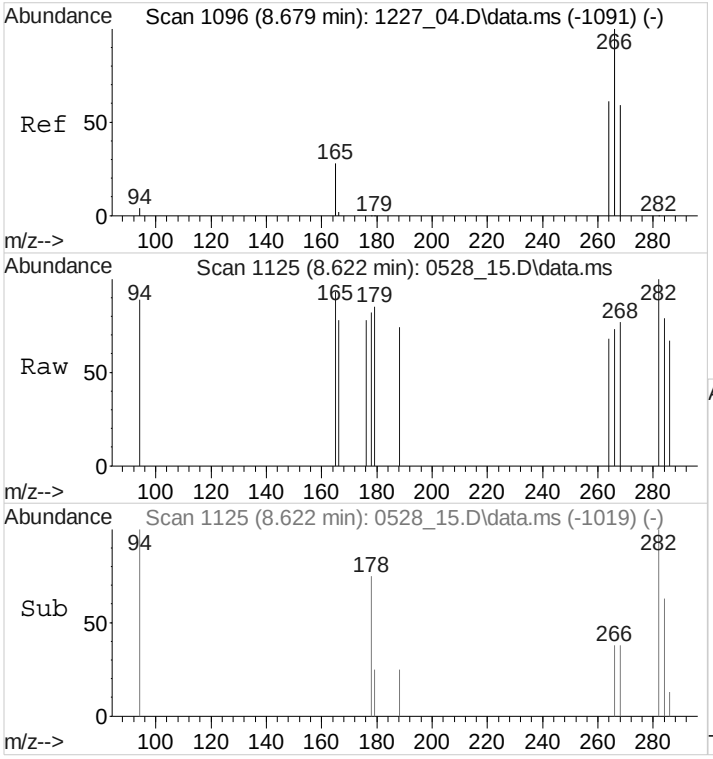


#14
Hexachlorobenzene
Concen: 0.0124384 ppb
RT: 8.425 min Scan# 1097
Delta R.T. -0.011 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:284 Resp: 36

Ion	Ratio	Lower	Upper
284	100		
286	23.1	59.6	89.4#
282	557.7	45.5	68.3#

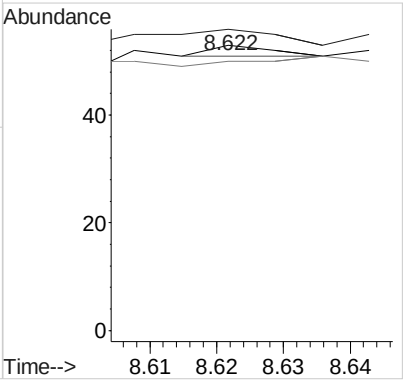


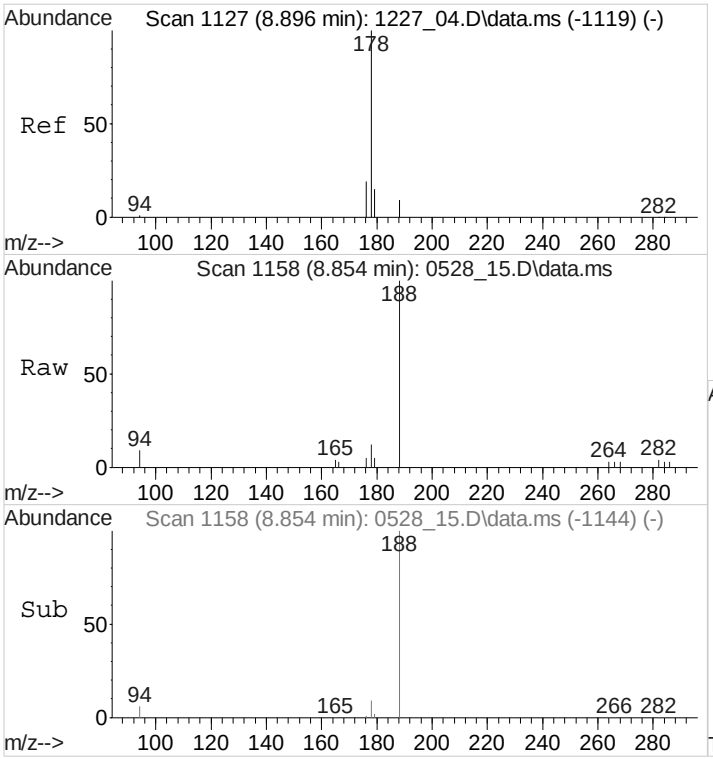


#15
Pentachlorophenol
Concen: 1.1163875 ppb
RT: 8.622 min Scan# 1125
Delta R.T. -0.003 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:266 Resp: 1

Ion	Ratio	Lower	Upper
266	100		
268	150.0	48.4	72.6#
264	50.0	51.8	77.6#

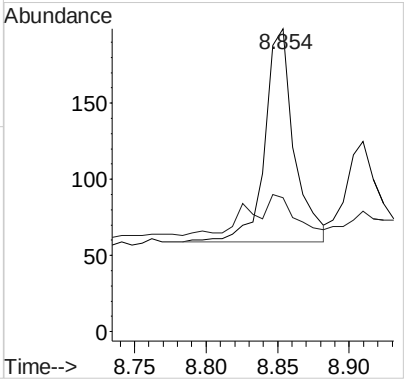


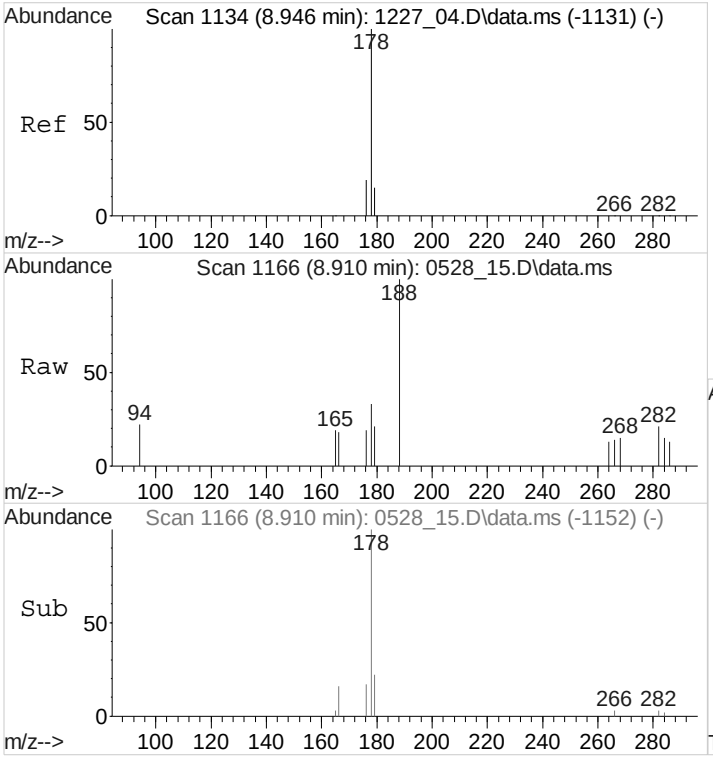


#16
Phenanthrene
Concen: 0.0148527 ppb
RT: 8.854 min Scan# 1158
Delta R.T. -0.003 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:178 Resp: 199

Ion	Ratio	Lower	Upper
178	100		
179	17.9	0.0	35.0

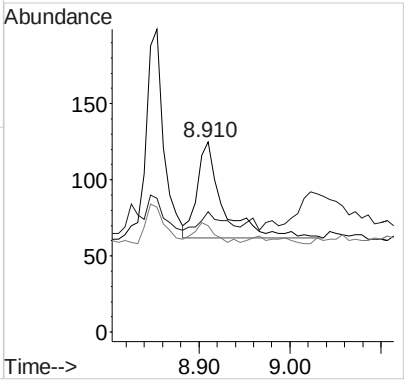


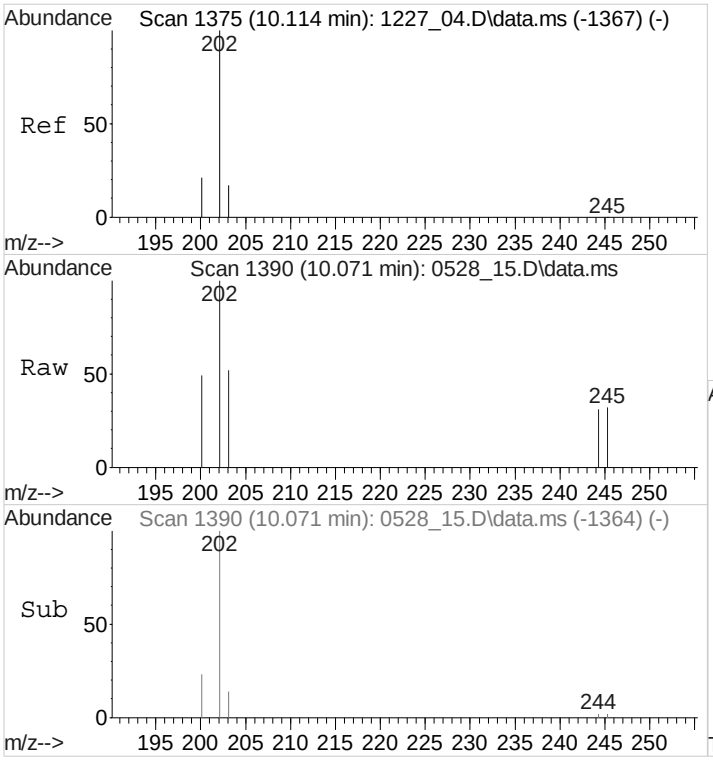


#17
Anthracene
Concen: 0.0095718 ppb
RT: 8.910 min Scan# 1166
Delta R.T. -0.003 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:178 Resp: 123

Ion	Ratio	Lower	Upper
178	100		
179	19.0	0.0	35.5
176	15.9	0.0	38.1

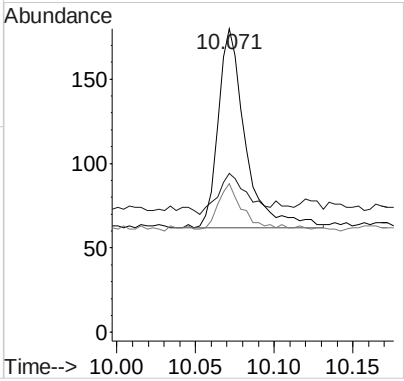


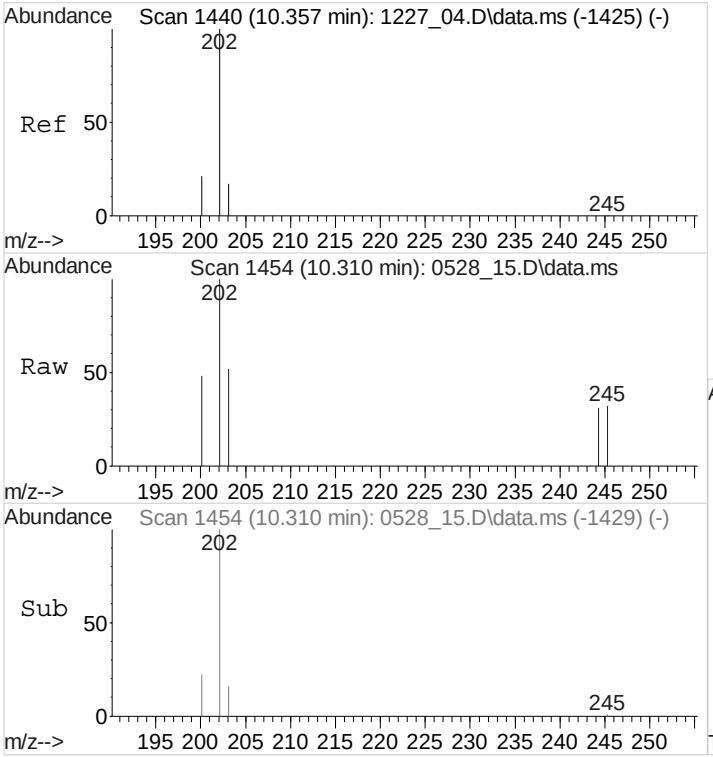


#18
Fluoranthene
Concen: 0.0098038 ppb
RT: 10.071 min Scan# 1390
Delta R.T. -0.003 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:202 Resp: 142

Ion	Ratio	Lower	Upper
202	100		
203	17.8	0.0	36.7
200	22.0	0.8	40.8

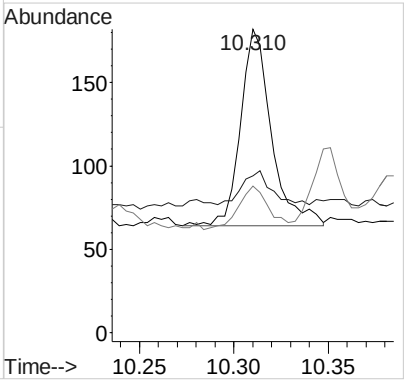


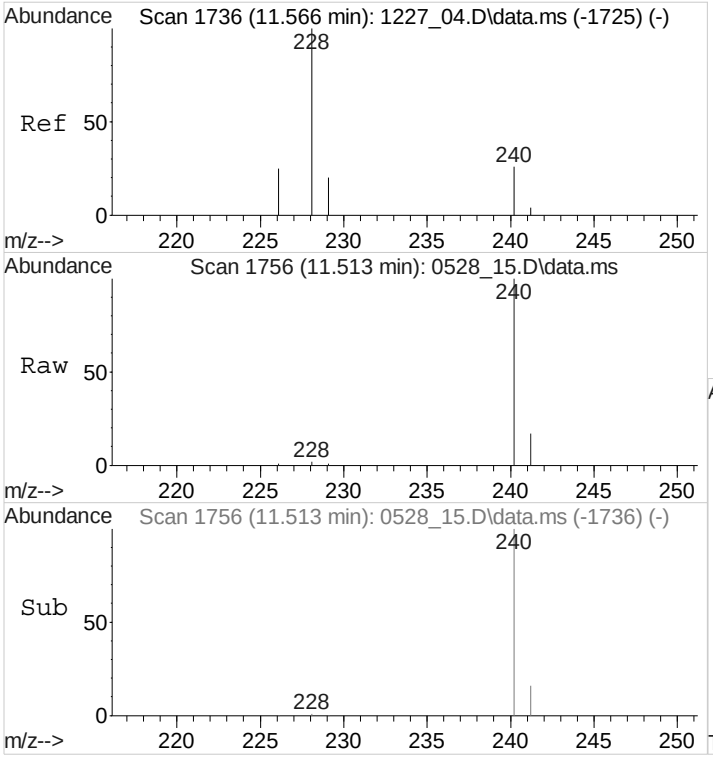


#20
Pyrene
Concen: 0.0104922 ppb
RT: 10.310 min Scan# 1454
Delta R.T. -0.007 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:202 Resp: 135

Ion	Ratio	Lower	Upper
202	100		
203	15.3	0.0	37.2
200	21.2	0.7	40.7

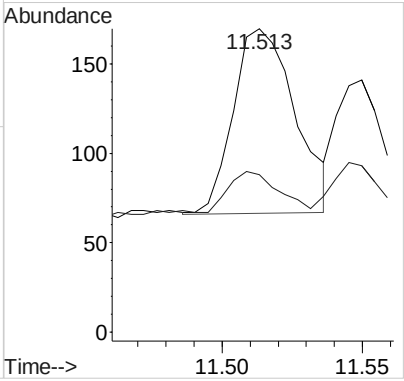


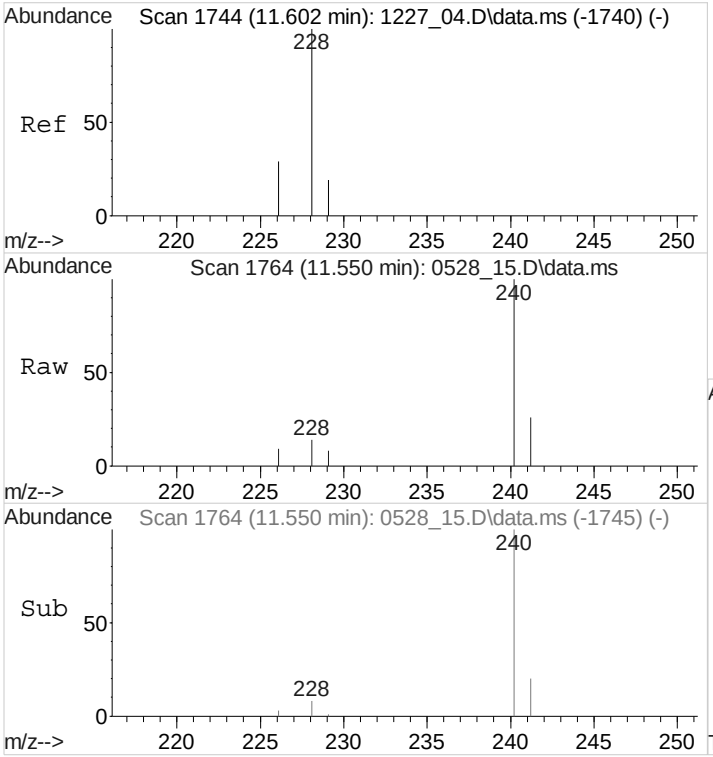


#22
Benzo(a)anthracene
Concen: 0.0119721 ppb
RT: 11.513 min Scan# 1756
Delta R.T. -0.009 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:228 Resp: 158

Ion	Ratio	Lower	Upper
228	100		
226	19.4	7.6	47.6

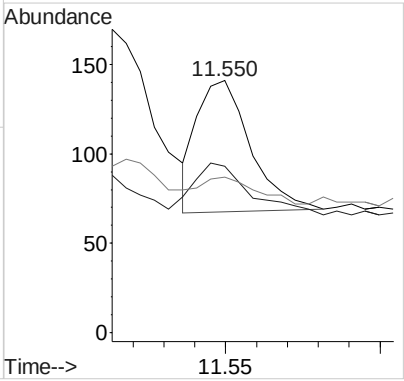


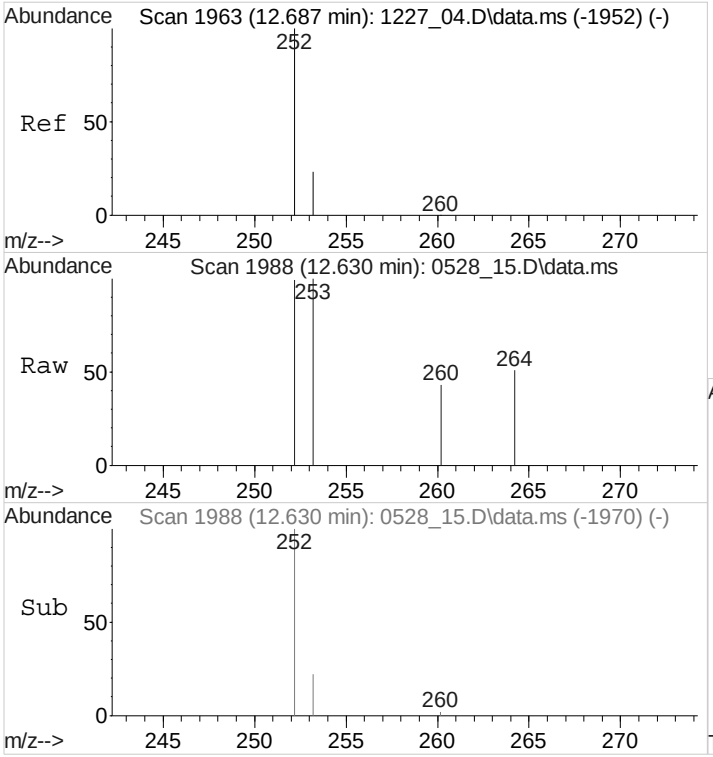


#23
Chrysene
Concen: 0.0070250 ppb
RT: 11.550 min Scan# 1764
Delta R.T. -0.013 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:228 Resp: 88

Ion	Ratio	Lower	Upper
228	100		
226	37.5	9.0	49.0
229	15.3	0.0	39.5

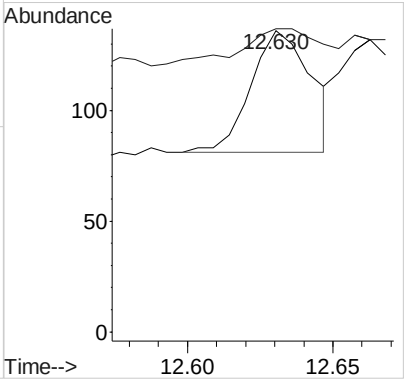


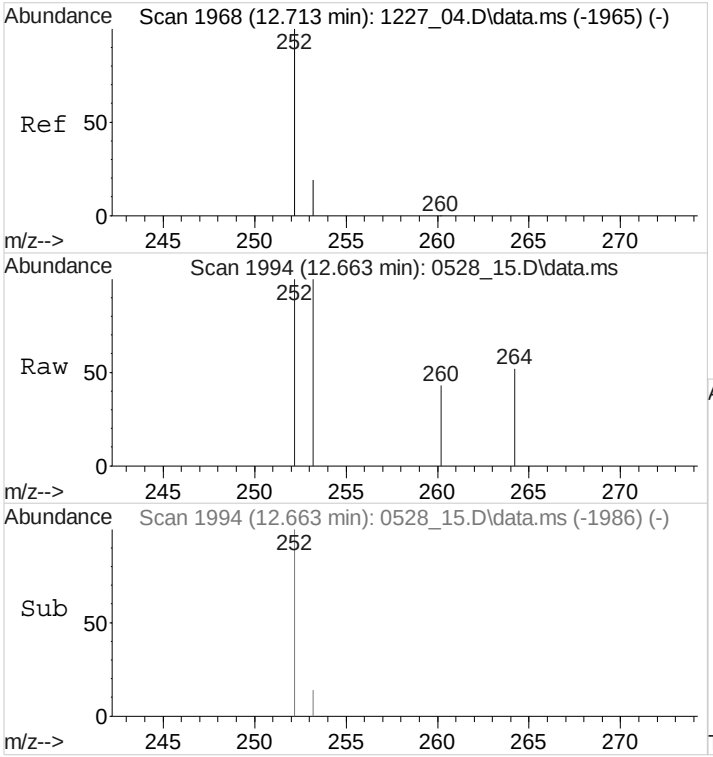


#25
Benzo(b)fluoranthene
Concen: 0.0063439 ppb
RT: 12.630 min Scan# 1988
Delta R.T. -0.005 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:252 Resp: 80

Ion	Ratio	Lower	Upper
252	100		
253	25.5	2.4	42.4

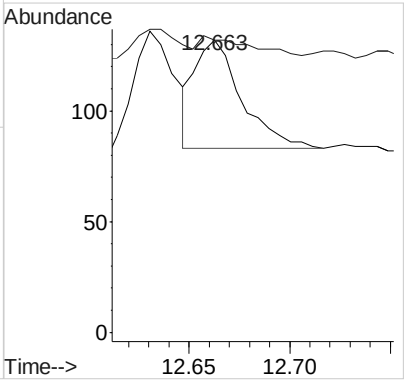


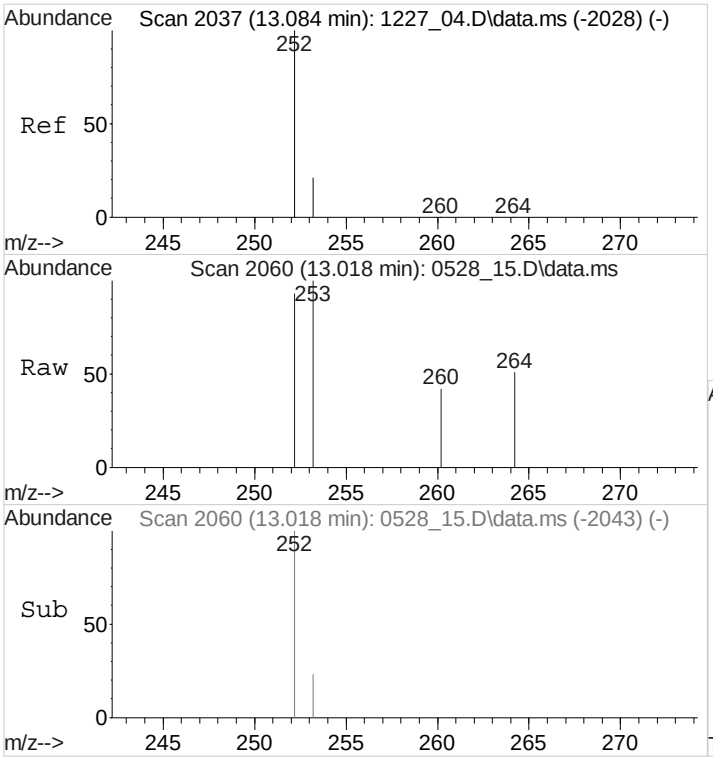


#26
Benzo(k)fluoranthene
Concen: 0.0067324 ppb
RT: 12.663 min Scan# 1994
Delta R.T. -0.005 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:252 Resp: 80

Ion	Ratio	Lower	Upper
252	100		
253	10.2	0.3	40.3

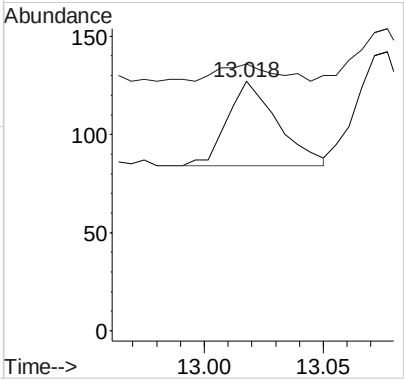


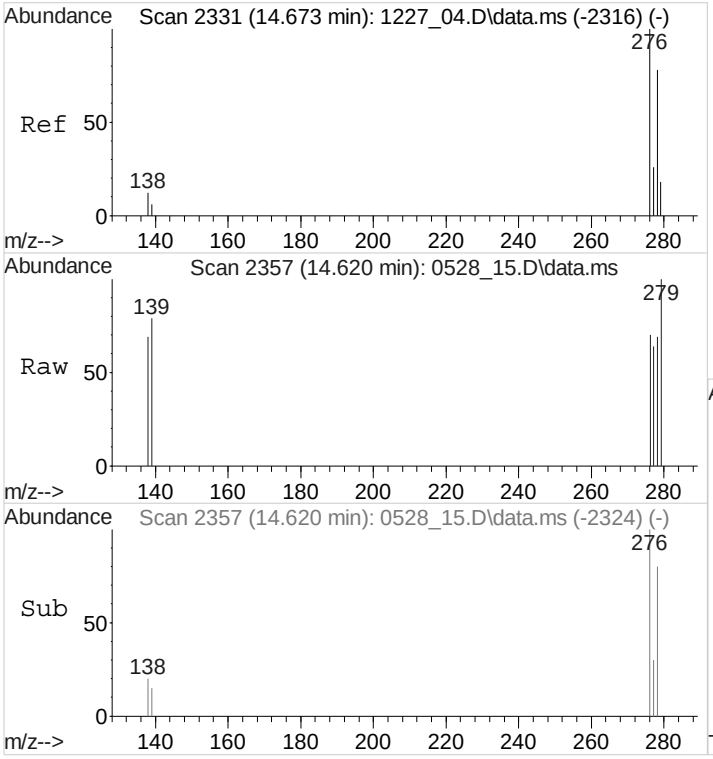


#27
Benzo(a)pyrene
Concen: 0.0059952 ppb
RT: 13.018 min Scan# 2060
Delta R.T. -0.011 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:252 Resp: 64

Ion	Ratio	Lower	Upper
252	100		
253	18.6	1.8	41.8

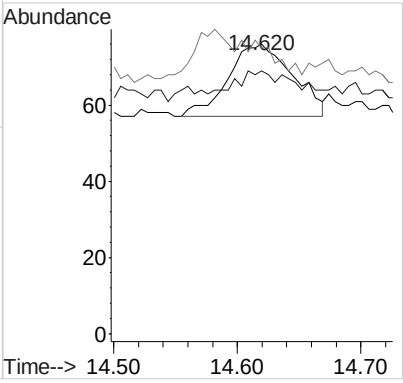


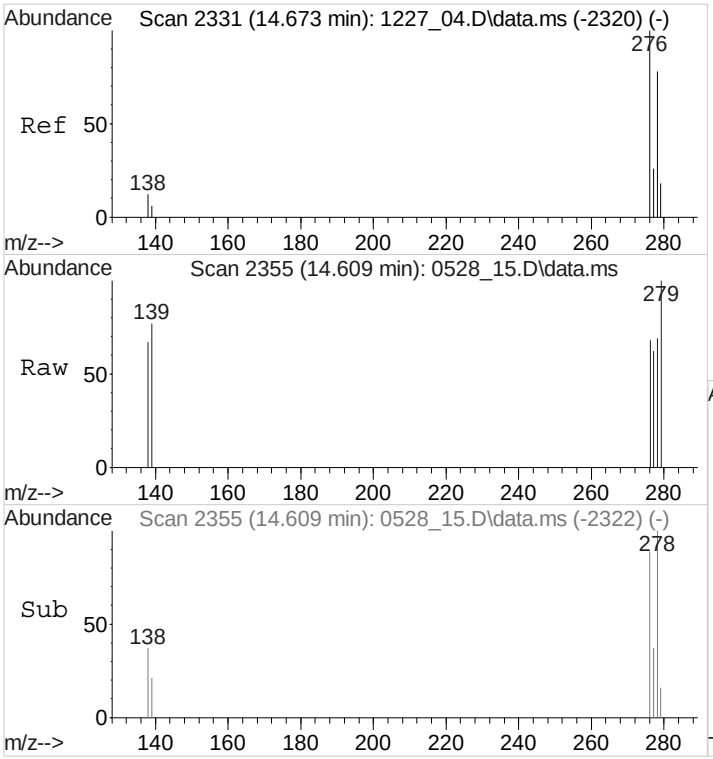


#28
Indeno(1,2,3-cd)pyrene
Concen: 0.0052209 ppb
RT: 14.620 min Scan# 2357
Delta R.T. 0.027 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:276 Resp: 69

Ion	Ratio	Lower	Upper
276	100		
277	26.3	6.2	46.2
138	31.6	9.0	49.0

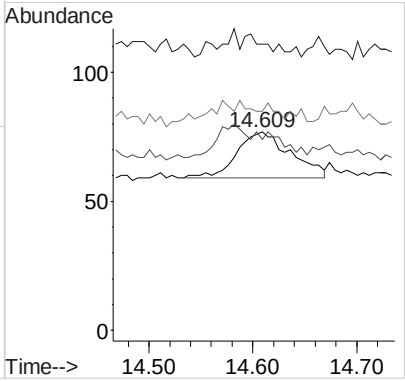


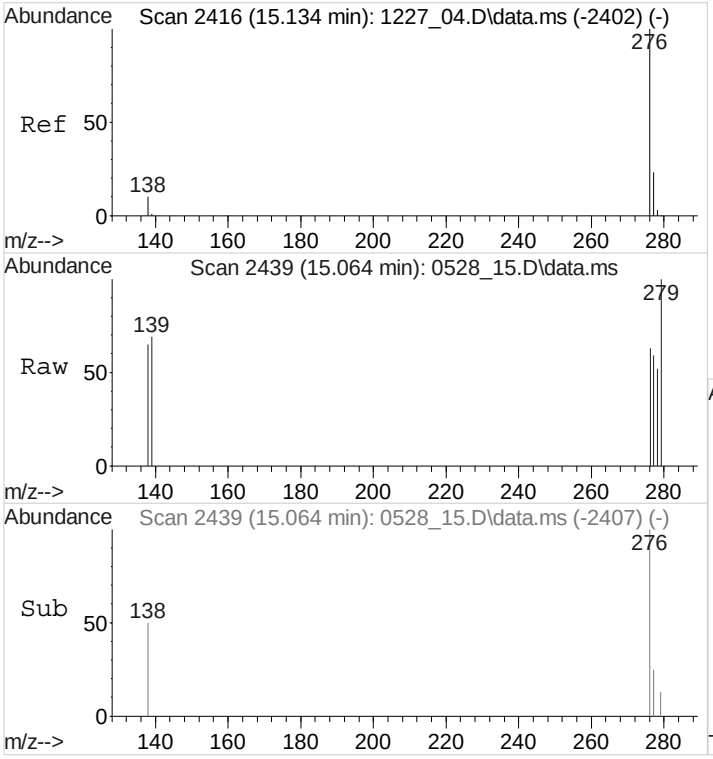


#29
Dibenz(a,h)anthracene
Concen: 0.0058608 ppb
RT: 14.609 min Scan# 2355
Delta R.T. 0.027 min
Lab File: 0528 15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:278 Resp: 65

Ion	Ratio	Lower	Upper
278	100		
279	5.6	3.6	43.6
139	16.7	0.0	38.9
138	38.9	11.7	51.7

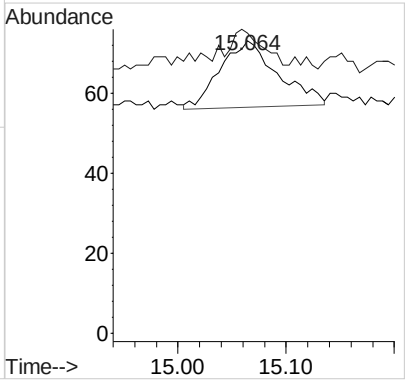




#30
Benzo(g,h,i)perylene
Concen: 0.0055518 ppb
RT: 15.064 min Scan# 2439
Delta R.T. 0.022 min
Lab File: 0528_15.D
Acq: 29 May 2015 4:34 am

Tgt Ion:276 Resp: 62

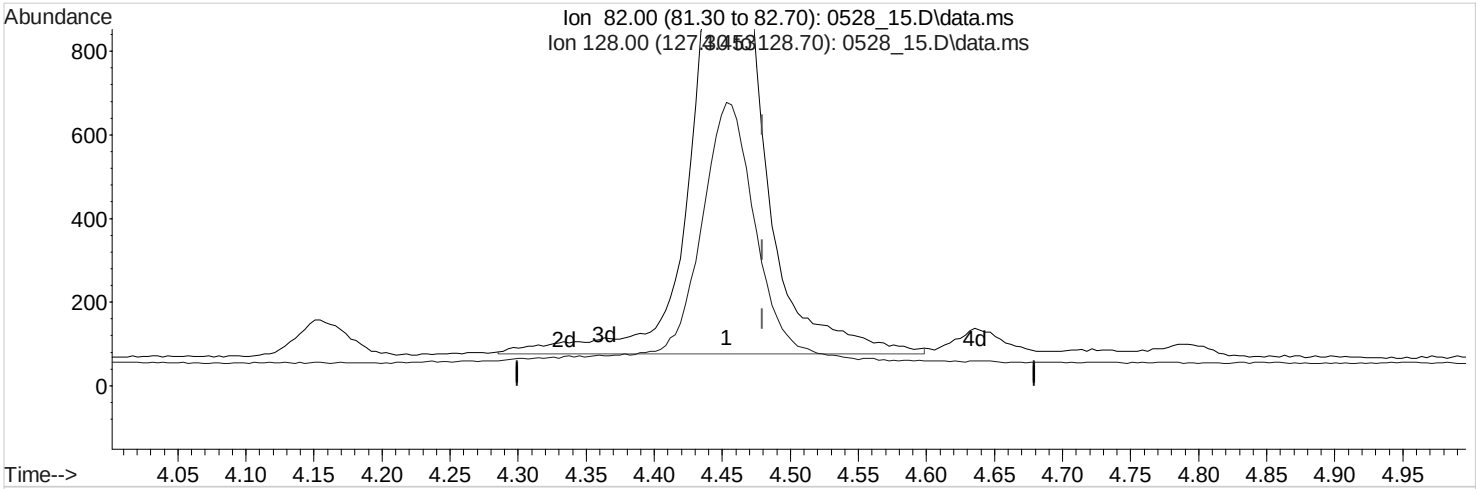
Ion	Ratio	Lower	Upper
276	100		
138	43.8	5.4	45.4

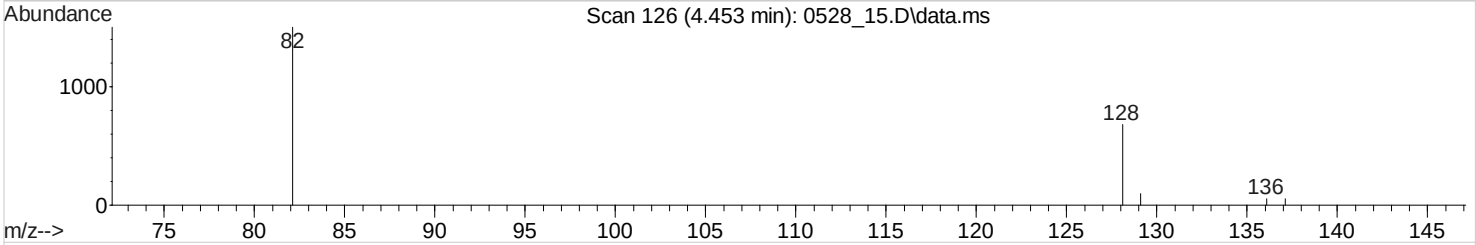


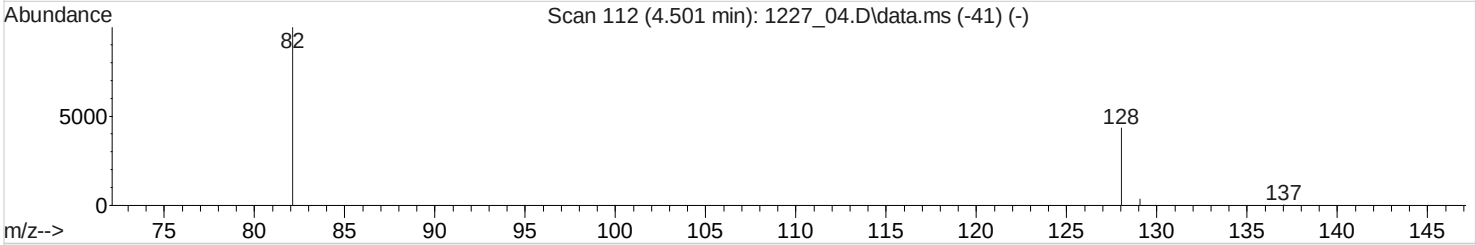
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052815\
Data File : 0528 15.D
Acq On : 29 May 2015 4:34 am
Operator : 282
Sample : L767115-09 1.11x WG792025 90-5
Misc : WATER 15D29868/15D14085
ALS Vial : 77 Sample Multiplier: 0.056
InstName : BNAMS13

Quant Time: May 29 07:39:13 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0528_15.D\data.ms

(2) Nitrobenzene-d5 (S)

4.453min (-0.026) 1.2638328 ppb m

response 4389

Ion	Exp%	Act%
82.00	100	100
128.00	47.90	45.05
0.00	0.00	0.00
0.00	0.00	0.00

Calibration

Instrument: BNAMS13
Method: SS13E21O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0521_03.D	1	5/21/2015 2:13:00 PM
0521_04.D	5	5/21/2015 2:35:00 PM
0521_05.D	10	5/21/2015 2:56:00 PM
0521_06.D	20	5/21/2015 3:18:00 PM
0521_07.D	40	5/21/2015 3:39:00 PM
0521_08.D	80	5/21/2015 4:01:00 PM
0521_09.D	200	5/21/2015 4:23:00 PM
0521_10.D	1000	5/21/2015 4:44:00 PM
0521_11.D	2000	5/21/2015 5:06:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK

Released By : Fallon Labeots
Date Released : 5/22/2015 7:53:35 AM

Run ID : 052115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0521_02	TUNE SVMS 2000 PPB 15E15158	TUNE525							1	05/21/15 1352	
2	0521_03	STD SIMLVI 1 PPB 15E19926	SS13E21O						1	1	05/21/15 1413	"sim calibration"
3	0521_04	STD SIMLVI 5 PPB 15E19926	SS13E21O						1	1	05/21/15 1435	"sim calibration"
4	0521_05	STD SIMLVI 10 PPB 15E19926	SS13E21O						1	1	05/21/15 1456	"sim calibration"
5	0521_06	STD SIMLVI 20 PPB 15E19926	SS13E21O						1	1	05/21/15 1518	"sim calibration"
6	0521_07	MSTD SIMLVI 40 PPB 15E19926	SS13E21O						1	1	05/21/15 1539	"sim calibration"
7	0521_08	STD SIMLVI 80 PPB 15E19926	SS13E21O						1	1	05/21/15 1601	"sim calibration"
8	0521_09	STD SIMLVI 200 PPB 15E19926	SS13E21O						1	1	05/21/15 1623	"sim calibration"
9	0521_10	STD SIMLVI 1000 PPB 15E19926	SS13E21O						1	1	05/21/15 1644	"sim calibration"
10	0521_11	STD SIMLVI 2000 PPB 15E19926	SS13E21O						1	1	05/21/15 1706	"sim calibration"
11	0521_12	SSCV SIMLVI 40 PPB 15D23586	SS13E21O						1	1	05/21/15 1727	"sim secondary source"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 14:14:07 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M

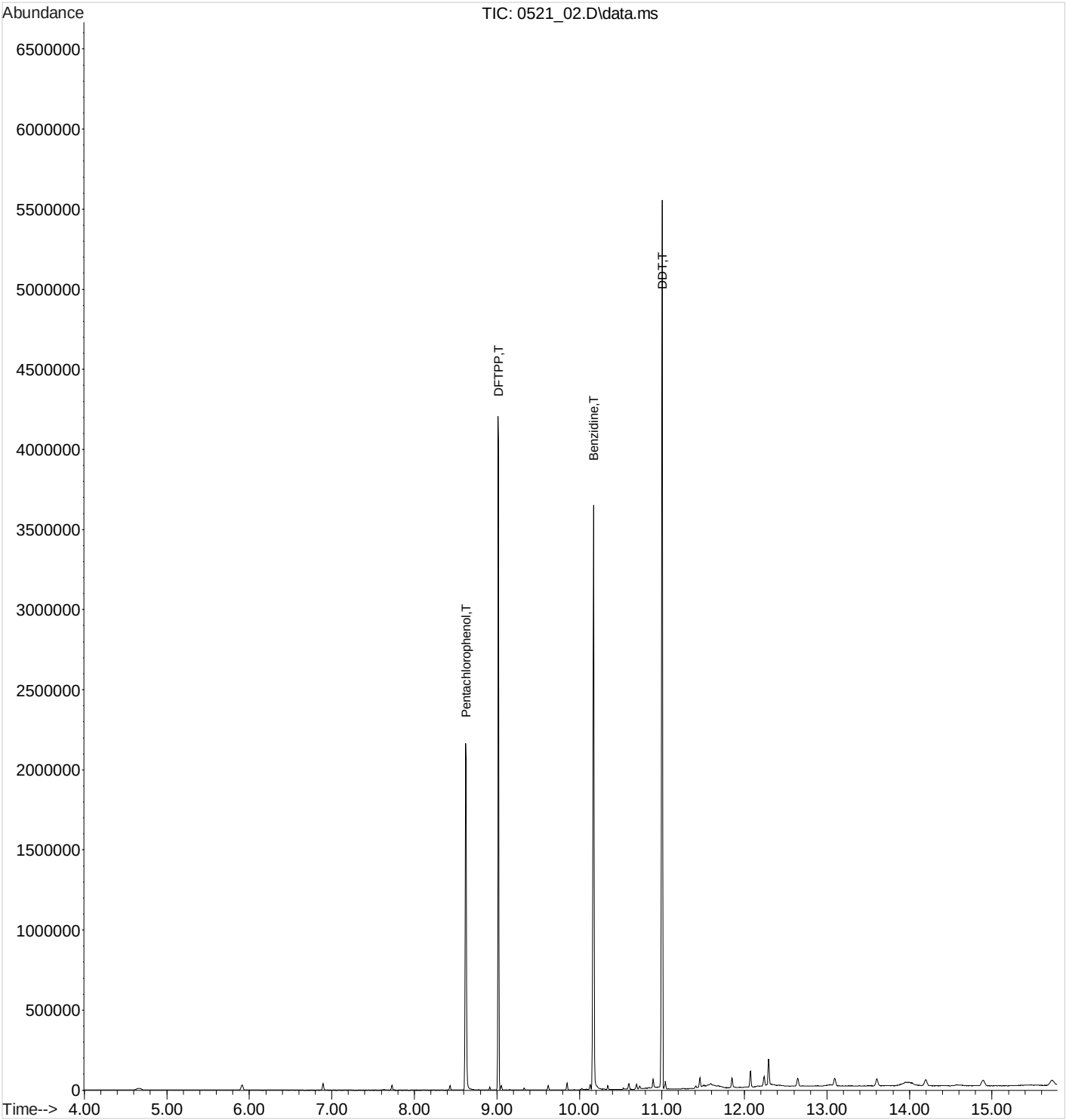
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.627	264	1631830	0.5328209	ppm	100
2) DFTPP	9.021	198	3837224	0.2280647	ppm	100
3) Benzidine	10.173	184	13516250	0.4927518	ppm	100
4) DDT	11.002	TIC	46642659	3.5735571	ppm	100
5) DDT	11.003	235	8892257	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1
InstName : BNAMS13

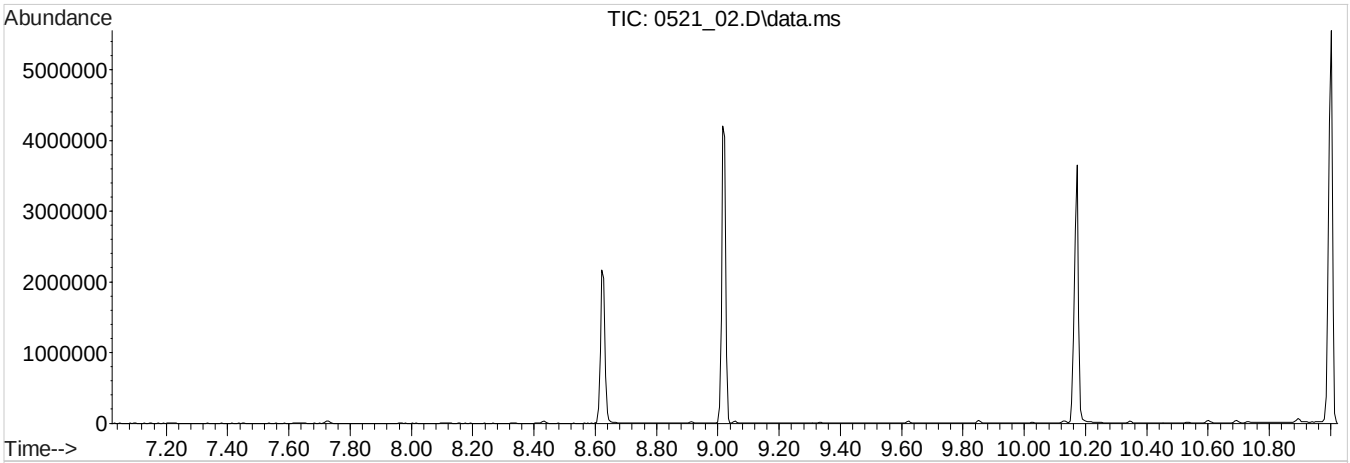
Quant Time: May 21 14:14:07 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M

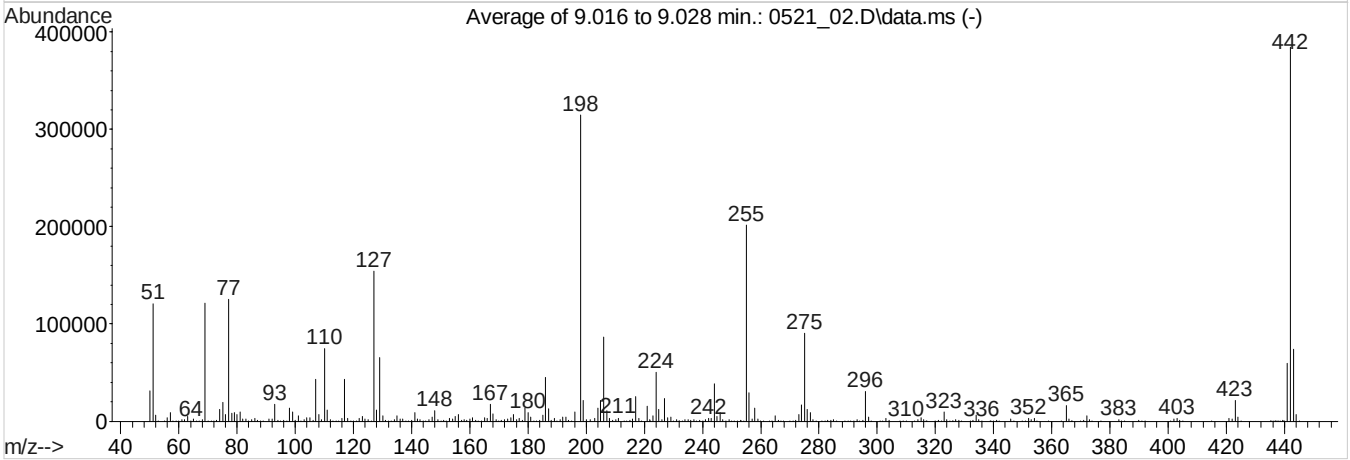


Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





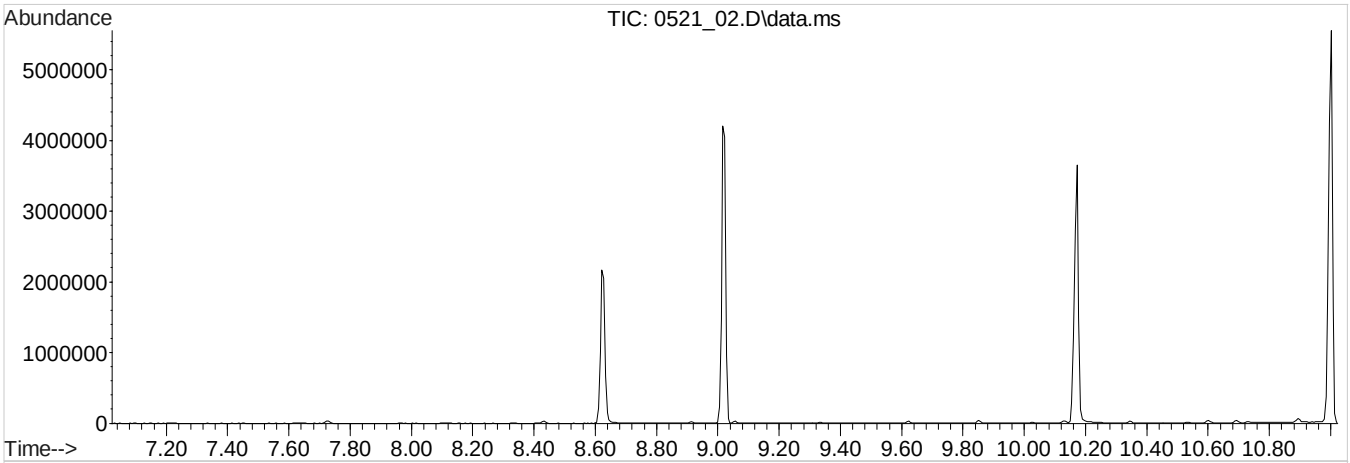
Spectrum Information: Average of 9.016 to 9.028 min.

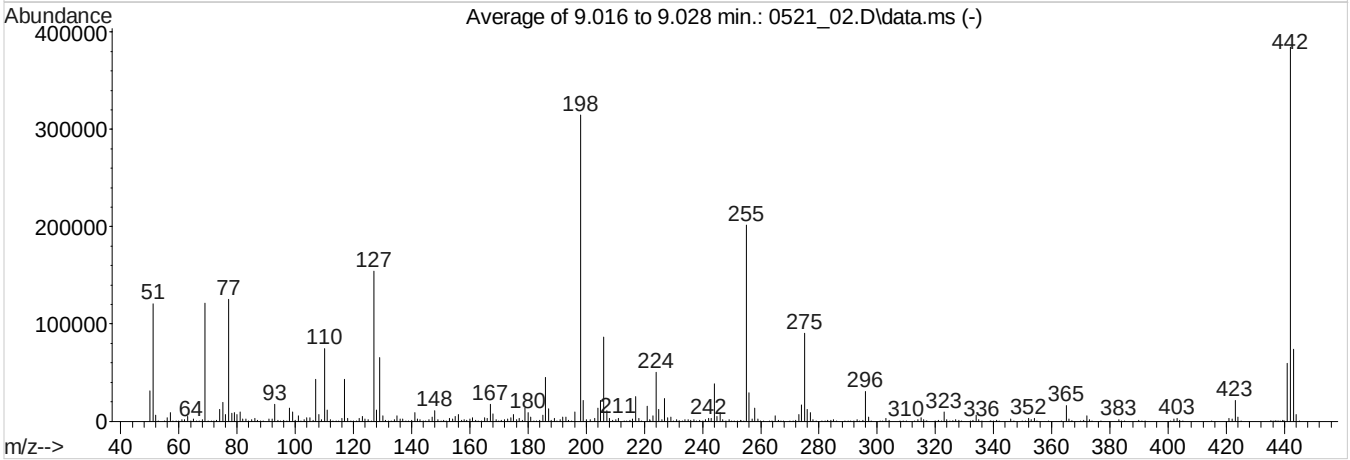
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	31.4	120835	PASS
68	69	0.00	2	1.6	1948	PASS
70	69	0.00	2	0.5	631	PASS
127	442	10	80	40.0	153912	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	81.8	314672	PASS
199	198	5	9	6.8	21421	PASS
275	442	10	60	23.6	90696	PASS
365	442	1	100	4.1	15912	PASS
441	443	0.01	100	80.5	59768	PASS
442	442	50	100	100.0	384555	PASS
443	442	15	24	19.3	74240	PASS

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





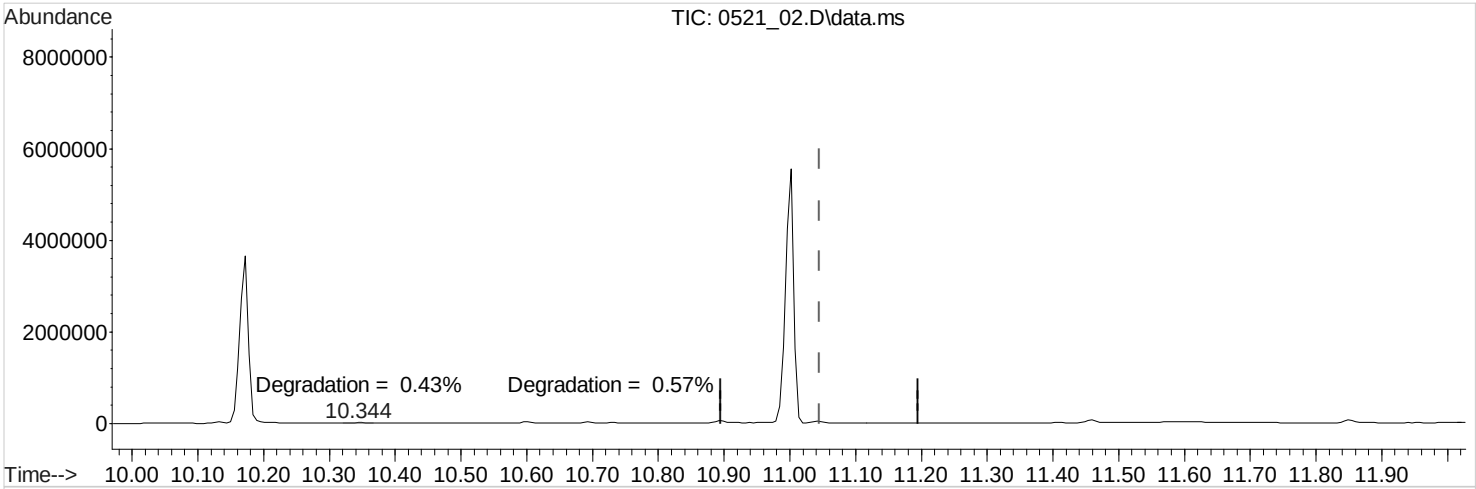
Spectrum Information: Average of 9.016 to 9.028 min.

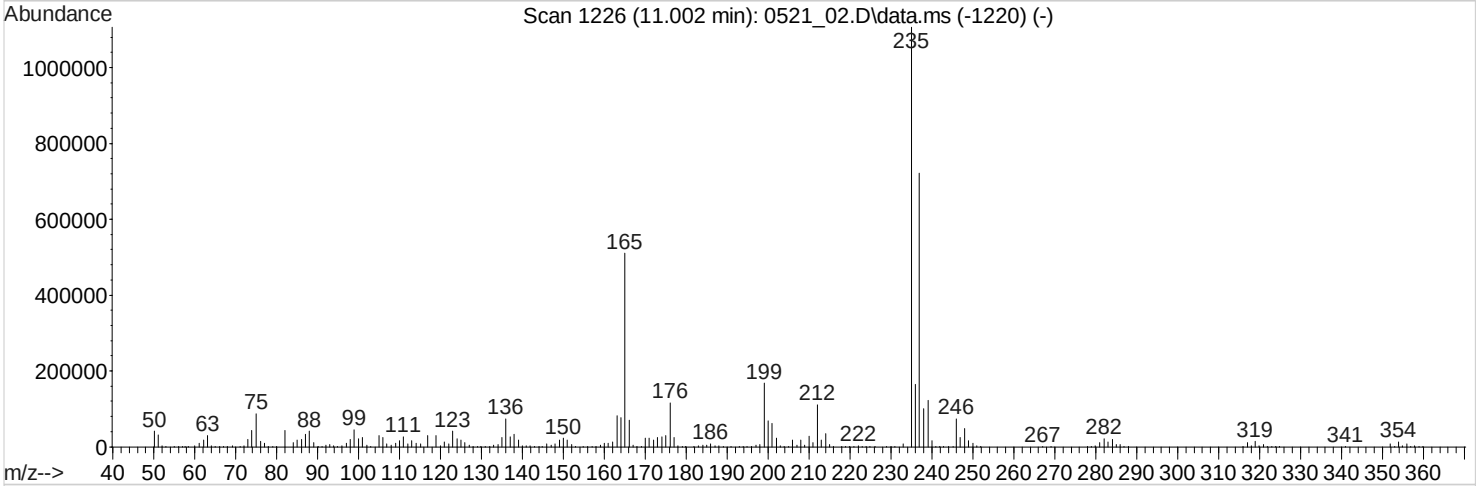
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	31.4	120835	PASS
68	69	0.00	2	1.6	1948	PASS
70	69	0.00	2	0.5	631	PASS
127	442	10	80	40.0	153912	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	81.8	314672	PASS
199	198	5	9	6.8	21421	PASS
275	442	10	60	23.6	90696	PASS
365	442	1	100	4.1	15912	PASS
441	443	0.01	100	80.5	59768	PASS
442	442	50	100	100.0	384555	PASS
443	442	15	24	19.3	74240	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 14:14:07 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





(4) DDT (T)

11.002min (-0.042) 3.5735571 ppm

Qvalue = 100

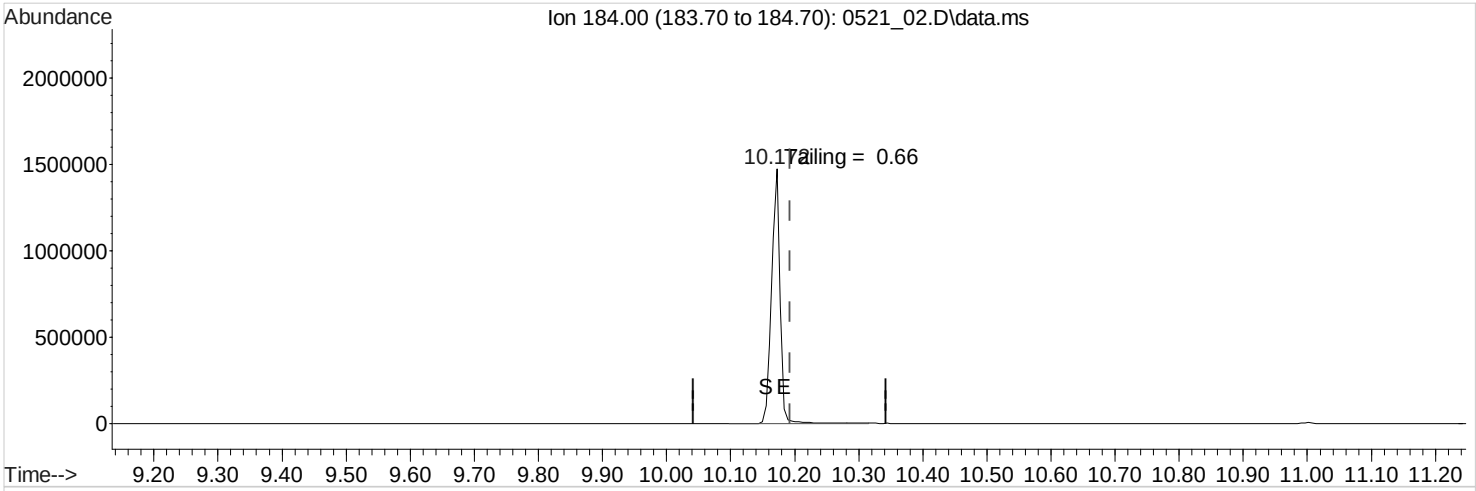
response 46642659

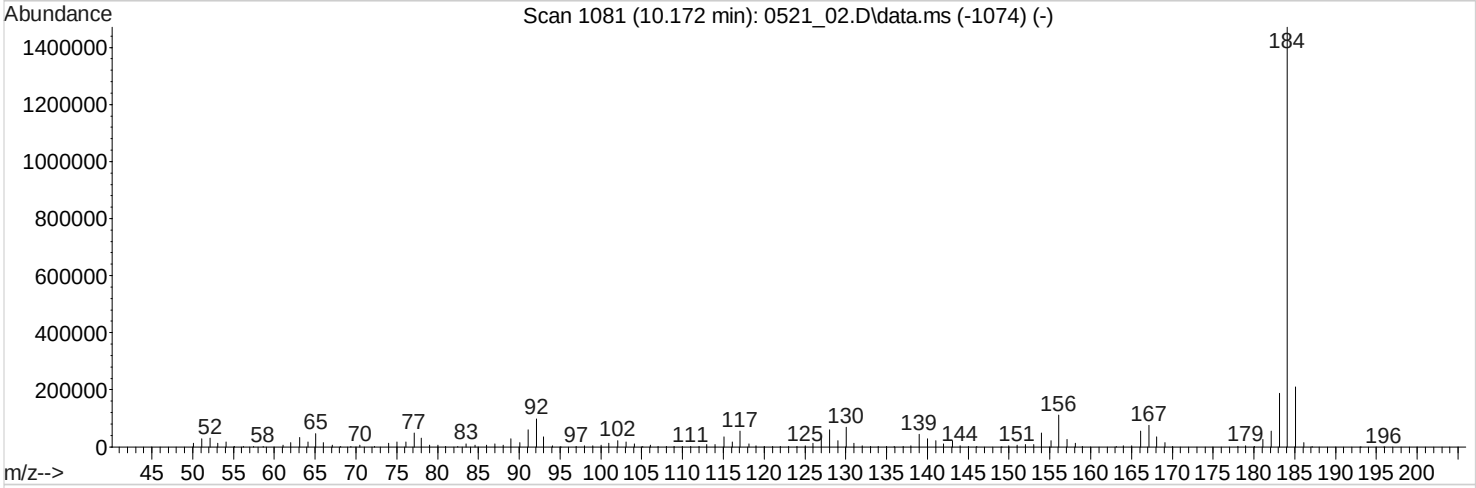
Signal	Exp%	Act%
TIC	100	100
0.00	6.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 14:14:07 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





(3) Benzidine (T)

10.173min (-0.019) 0.4927518 ppm

Qvalue = 100

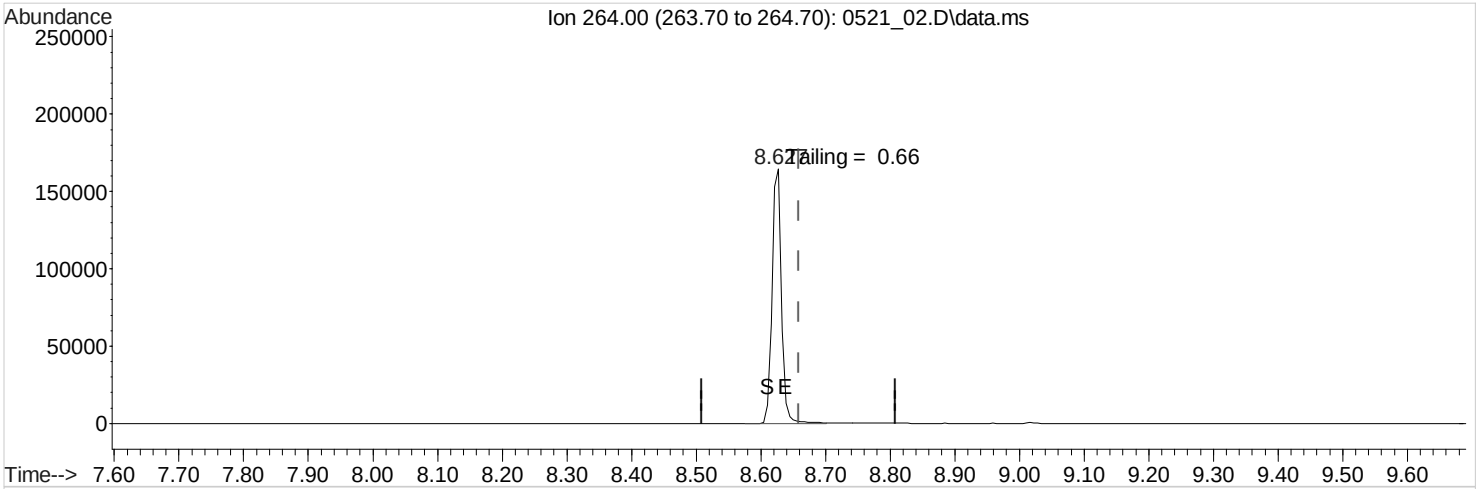
response 13516250

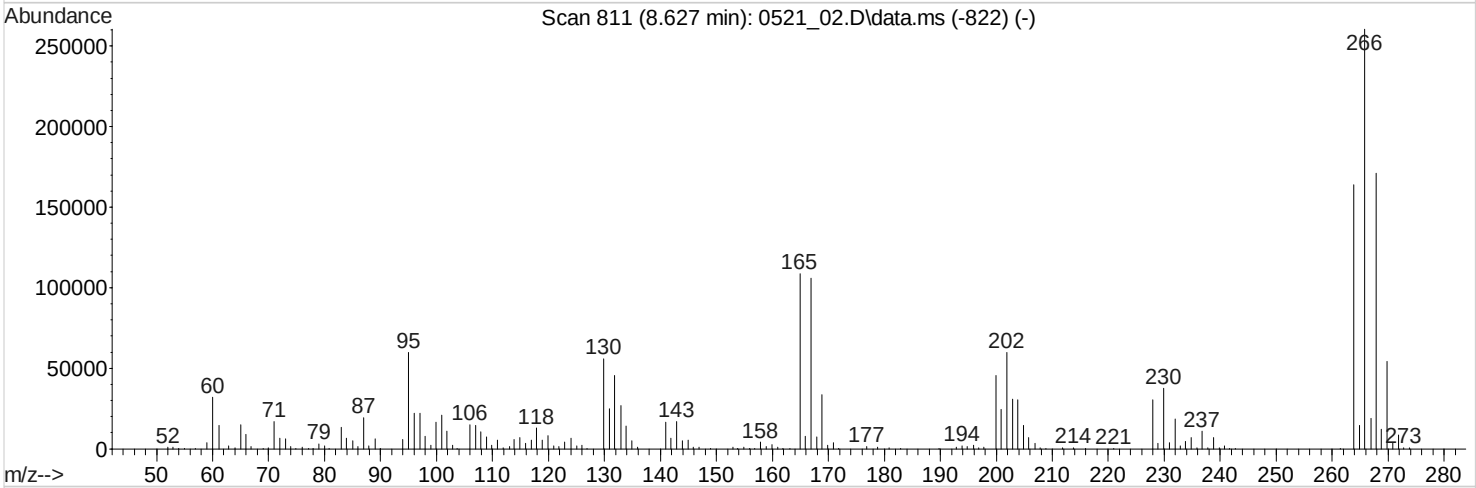
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 02.D
Acq On : 21 May 2015 1:52 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 15E15158
Misc : DFTPP TUNE
ALS Vial : 102 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 14:14:07 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
DataAcq Meth:PAH_20UL.M





TIC: 0521_02.D\data.ms

(1) Pentachlorophenol (T)

8.627min (-0.031) 0.5328209 ppm

Qvalue = 100

response 1631830

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

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS13	Review Method	: LVI PAH	Released By	: Fallon Labeots
Method	: SS13E21O	Review Protocol	: SW846	Released On	: 5/22/2015 7:53:36 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS13E21O -- ICal Updated Time: Thu May 21 17:49:16 2015

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.328	0.294	0.295	0.296	0.307	0.307	0.312	0.344	0.315	0.310986	5.36	0.054	1	
Naphthalene	1.048	1.073	1.069	1.035	1.05	1.037	1.031	1.013	0.99	1.038445	2.51	0.025	1	0.7
2-Methylnaphthalene	0.744	0.692	0.709	0.693	0.712	0.708	0.71	0.712	0.707	0.709644	2.11	0.021	1	0.4
1-Methylnaphthalene	0.721	0.662	0.667	0.654	0.669	0.659	0.655	0.651	0.656	0.666034	3.22	0.032	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.388	1.431	1.446	1.409	1.42	1.416	1.415	1.407	1.433	1.418276	1.2	0.012	1	
2-Chloronaphthalene	1.188	1.252	1.276	1.249	1.276	1.266	1.268	1.277	1.296	1.26088	2.42	0.024	1	0.8
Acenaphthylene	1.739	1.754	1.79	1.751	1.812	1.833	1.881	1.943	1.981	1.831716	4.74	0.047	1	0.9
Acenaphthene	1.283	1.275	1.301	1.261	1.282	1.271	1.283	1.29	1.315	1.28446	1.25	0.013	1	0.9
Dibenzofuran	1.604	1.638	1.66	1.625	1.656	1.645	1.653	1.67	1.697	1.649746	1.61	0.016	1	0.8
Fluorene	1.516	1.419	1.407	1.343	1.362	1.354	1.371	1.437	1.502	1.412396	4.48	0.045	1	0.9
Phenanthrene-d10														
Hexachlorobenzene	0.267	0.263	0.259	0.253	0.258	0.253	0.251	0.254	0.265	0.25805	2.31	0.023	1	0.1
Pentachlorophenol	0.095	0.03	0.026	0.026	0.029	0.038	0.057	0.101	0.123	0.058392	65.22	1	3	0.05
Phenanthrene	1.311	1.195	1.193	1.165	1.192	1.18	1.18	1.173	1.16	1.194577	3.81	0.038	1	0.7
Anthracene	1.088	1.095	1.107	1.115	1.166	1.178	1.181	1.189	1.192	1.145711	3.78	0.038	1	0.7
Fluoranthene	1.254	1.263	1.278	1.255	1.303	1.31	1.33	1.318	1.312	1.291395	2.27	0.023	1	0.6
Chrysene-d12														
Pyrene	1.199	1.185	1.191	1.15	1.168	1.15	1.113	1.055	0.932	1.126901	7.61	0.076	1	0.5
p-Terphenyl-d14	0.961	0.966	0.966	0.939	0.956	0.94	0.923	0.907	0.825	0.931556	4.79	0.048	1	
Benzo(a)anthracene	1.24	1.177	1.169	1.142	1.179	1.174	1.178	1.144	0.999	1.155862	5.65	0.056	1	0.8
Chrysene	1.143	1.164	1.172	1.121	1.152	1.124	1.107	1.003	0.89	1.097119	8.42	0.084	1	0.7

good for 8270 C & D

PDF Generated On: 05/22/2015 - By: Fallon Labeots

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

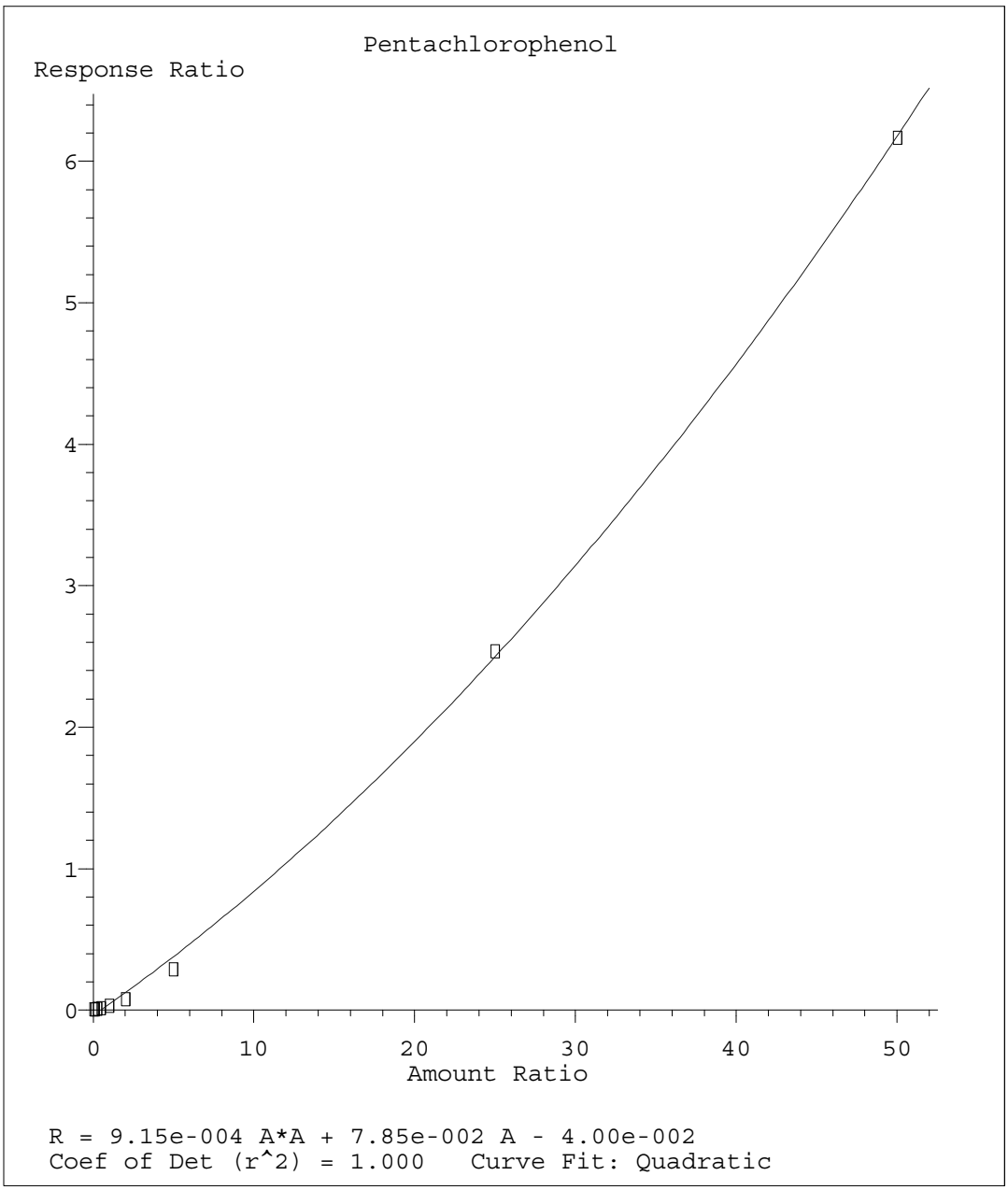
INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS13	Review Method	: LVI PAH	Released By	: Fallon Labeots
Method	: SS13E21O	Review Protocol	: SW846	Released On	: 5/22/2015 7:53:36 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS13E21O -- ICal Updated Time: Thu May 21 17:49:16 2015

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Perylene-d12														
Benzo(b)fluoranthene	1.087	1.103	1.153	1.119	1.211	1.211	1.209	1.061	1.071	1.136174	5.42	0.054	1	0.7
Benzo(k)fluoranthene	1.086	1.131	1.134	1.103	1.082	1.061	1.058	1.037	0.944	1.070611	5.37	0.054	1	0.7
Benzo(a)pyrene	0.951	0.951	0.974	0.953	0.988	0.987	1.011	0.953	0.889	0.961814	3.6	0.036	1	0.7
Indeno(1,2,3-cd)pyrene	1.19	1.212	1.251	1.233	1.284	1.287	1.305	1.015	0.941	1.190742	10.7	0.107	1	0.5
Dibenz(a,h)anthracene	0.998	0.995	1.034	1.017	1.057	1.073	1.095	0.891	0.834	0.999241	8.55	0.086	1	0.4
Benzo(g,h,i)perylene	1.064	1.061	1.085	1.06	1.098	1.087	1.09	0.785	0.724	1.006164	14.31	0.143	1	0.5

PDF Generated On: 05/22/2015 - By: Fallon Labeots



Method Name: C:\msdchem\1\METHODS\SS13E21O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 12.D
Acq On : 21 May 2015 5:27 pm
Operator : 282
Sample : SSCV SIMLVI 40 PPB 15D23586
Misc : sim secondary source
ALS Vial : 112 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:49:48 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

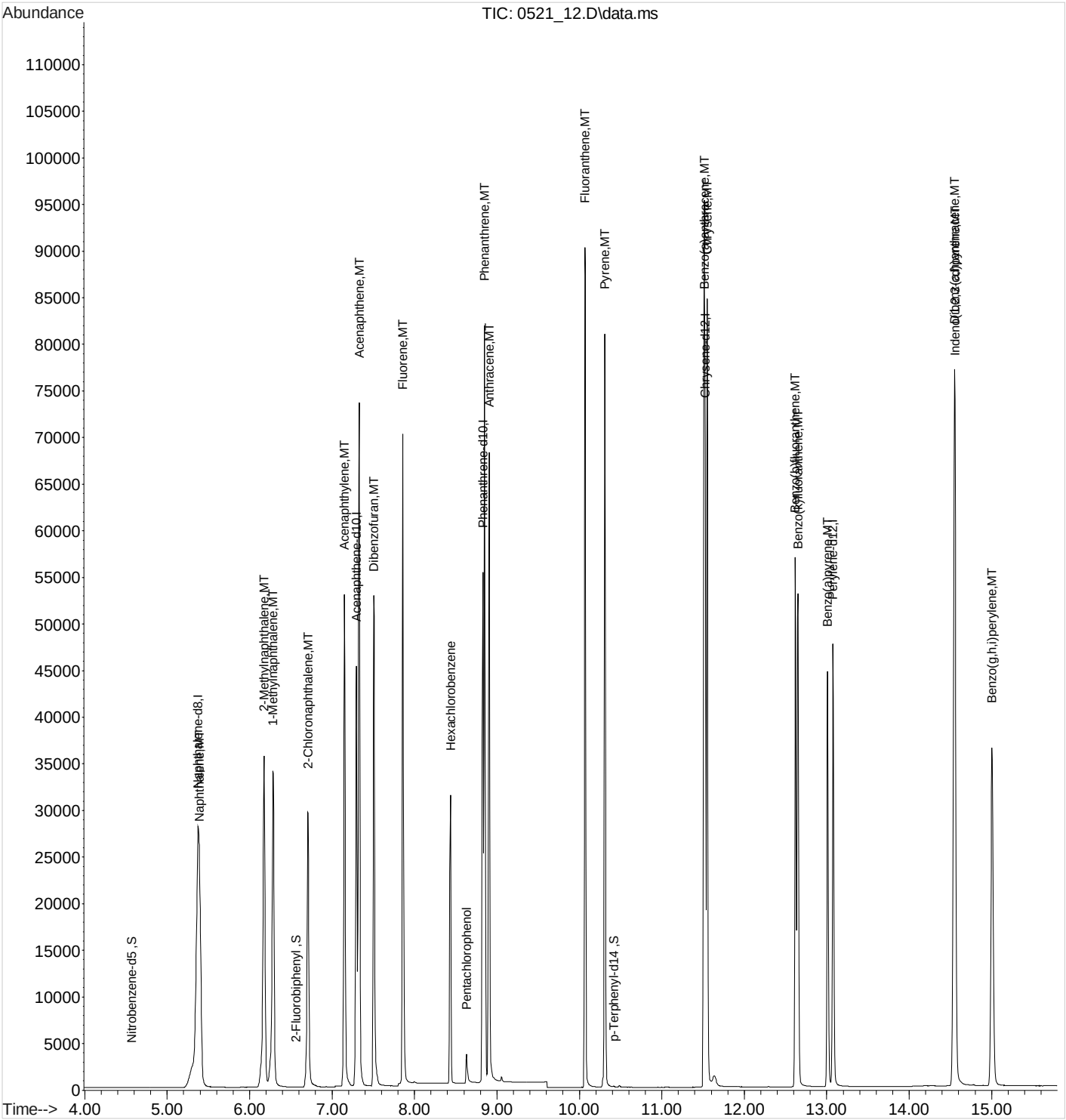
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.371	136	45130	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.295	164	26827	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.829	188	48257	40.0000000	ppb	0.00
19) Chrysene-d12	11.527	240	50812	40.0000000	ppb	0.00
24) Perylene-d12	13.076	264	49189	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.569	82	1	0.0028501	ppb	0.09
Spiked Amount 2.000	Range 45 - 170		Recovery = 0.14%#			
7) 2-Fluorobiphenyl	6.561	172	36	0.0378469	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1.89%#			
21) p-Terphenyl-d14	10.418	244	60	0.0507033	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 2.54%#			
Target Compounds						Qvalue
3) Naphthalene	5.393	128	49140	41.9417185	ppb	100
4) 2-Methylnaphthalene	6.174	142	33326	41.6233744	ppb	99
5) 1-Methylnaphthalene	6.284	142	30921	41.1482641	ppb	99
8) 2-Chloronaphthalene	6.710	162	34161	40.3966022	ppb	98
9) Acenaphthylene	7.151	152	49416	40.2251113	ppb	99
10) Acenaphthene	7.328	153	34570	40.1297839	ppb	98
11) Dibenzofuran	7.509	168	44809	40.4982186	ppb	91
12) Fluorene	7.859	166	36467	38.4974005	ppb	95
14) Hexachlorobenzene	8.435	284	12065	38.7545959	ppb	93
15) Pentachlorophenol	8.632	266	1790	38.8536768	ppb	96
16) Phenanthrene	8.850	178	54795	38.0212528	ppb	99
17) Anthracene	8.906	178	54024	39.0850966	ppb	99
18) Fluoranthene	10.067	202	60882	39.0777289	ppb	100
20) Pyrene	10.310	202	55399	38.6999033	ppb	99
22) Benzo(a)anthracene	11.513	228	55589	37.8596599	ppb	96
23) Chrysene	11.549	228	53807	38.6081359	ppb	98
25) Benzo(b)fluoranthene	12.619	252	53981	38.6356520	ppb	97
26) Benzo(k)fluoranthene	12.652	252	49402	37.5236439	ppb	95
27) Benzo(a)pyrene	13.012	252	44552	37.6676315	ppb	100
28) Indeno(1,2,3-cd)pyrene	14.554	276	57817	39.4847789	ppb	93
29) Dibenz(a,h)anthracene	14.549	278	47622	38.7551420	ppb	92
30) Benzo(g,h,i)perylene	15.005	276	49347	39.8826550	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 12.D
Acq On : 21 May 2015 5:27 pm
Operator : 282
Sample : SSCV SIMLVI 40 PPB 15D23586
Misc : sim secondary source
ALS Vial : 112 Sample Multiplier: 1
InstName : BNAMS13

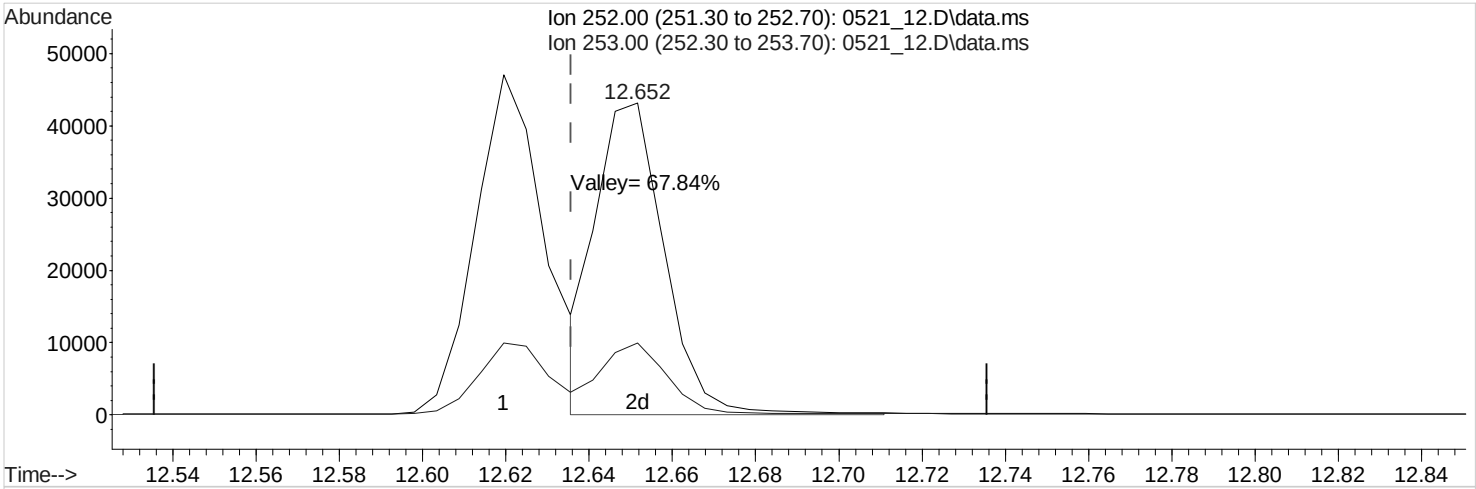
Quant Time: May 21 17:49:48 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

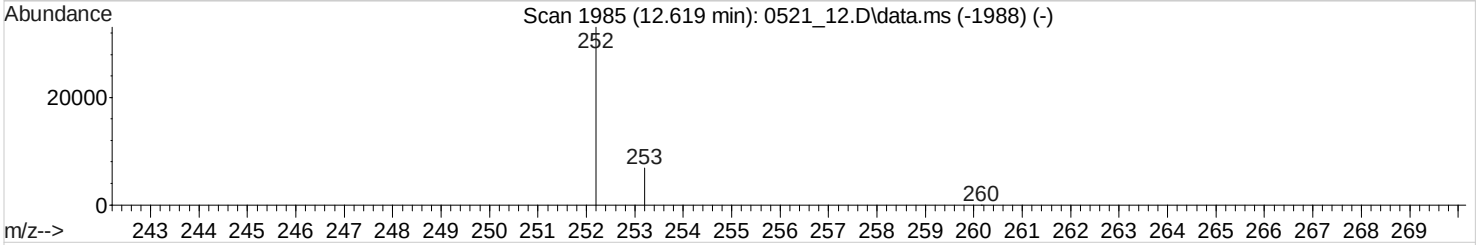


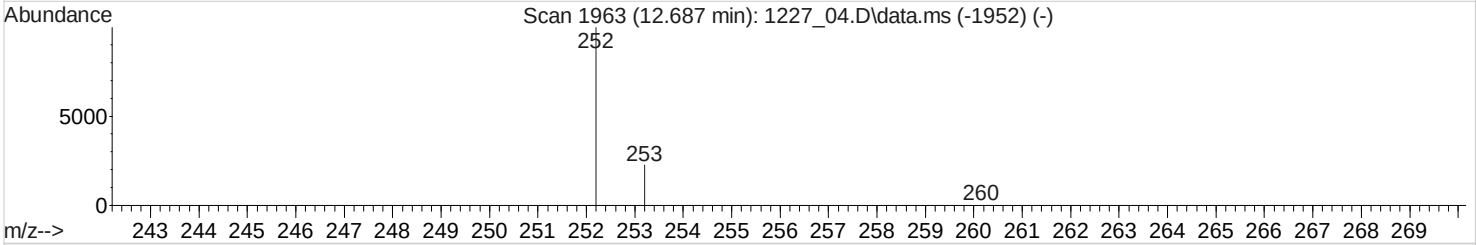
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 12.D
Acq On : 21 May 2015 5:27 pm
Operator : 282
Sample : SSCV SIMLVI 40 PPB 15D23586
Misc : sim secondary source
ALS Vial : 112 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:49:48 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:49:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0521_12.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.619min (-0.016) 38.6356520 ppb

Qvalue = 97

response 53981

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	20.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 03.D
Acq On : 21 May 2015 2:13 pm
Operator : 282
Sample : STD SIMLVI 1 PPB 15E19926
Misc : sim calibration
ALS Vial : 103 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:22:21 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:22:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

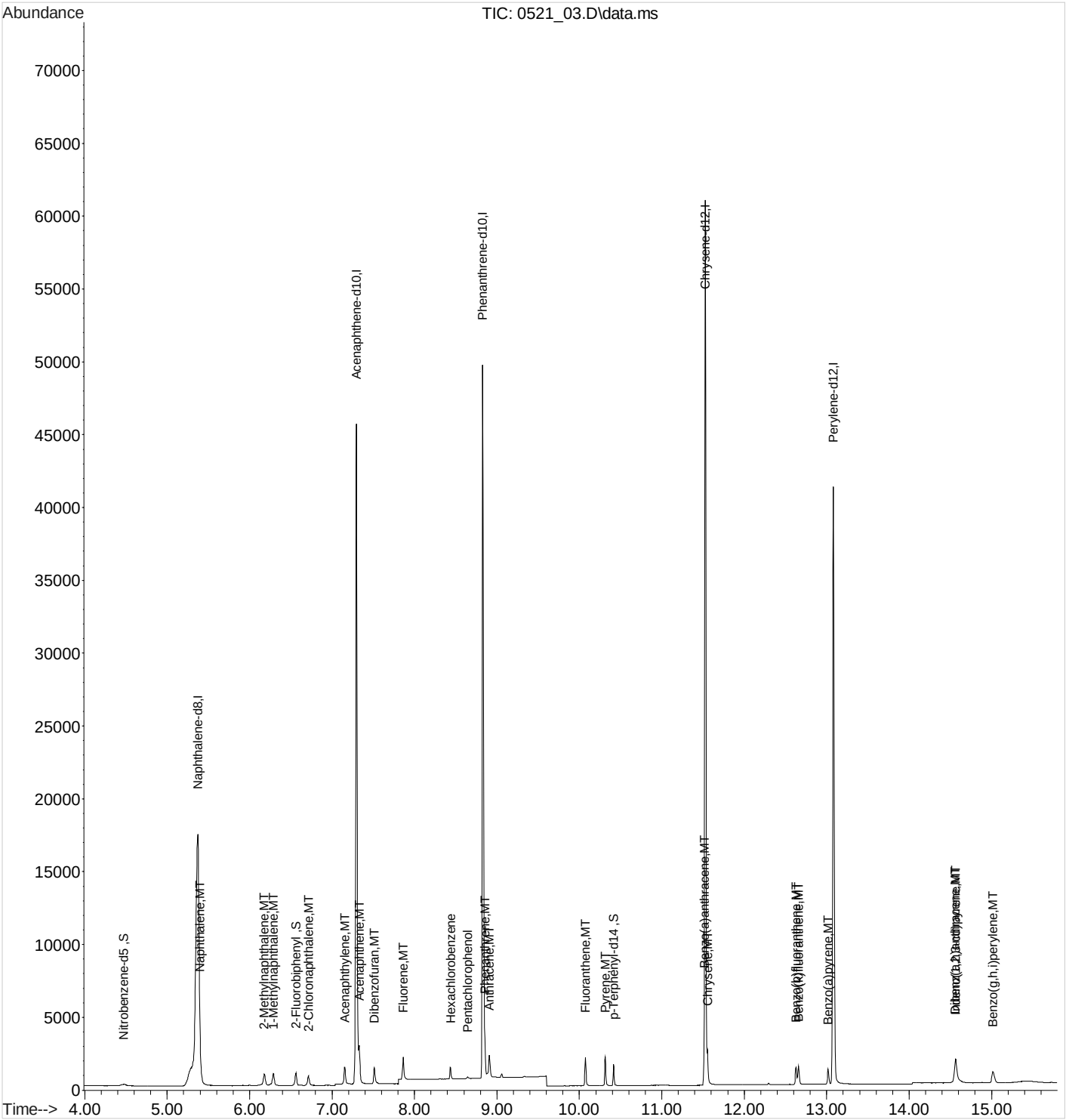
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.370	136	43166	40.0000000 ppb		0.00
6) Acenaphthene-d10	7.294	164	27436	40.0000000 ppb		0.00
13) Phenanthrene-d10	8.825	188	47155	40.0000000 ppb		0.00
19) Chrysene-d12	11.527	240	45890	40.0000000 ppb		0.00
24) Perylene-d12	13.082	264	44028	40.0000000 ppb		0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.472	82	354	1.0072742 ppb		0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 50.36%			
7) 2-Fluorobiphenyl	6.561	172	952	1.0003280 ppb		0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 50.02%#			
21) p-Terphenyl-d14	10.414	244	1102	1.0000000 ppb		0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 50.00%#			
Target Compounds						Qvalue
3) Naphthalene	5.397	128	1131	1.0072742 ppb		100
4) 2-Methylnaphthalene	6.178	142	803	1.0290601 ppb		98
5) 1-Methylnaphthalene	6.288	142	778	1.0072742 ppb		98
8) 2-Chloronaphthalene	6.714	162	815	1.0003280 ppb		99
9) Acenaphthylene	7.155	152	1193	1.0003280 ppb		98
10) Acenaphthene	7.328	153	880	1.0003280 ppb		98
11) Dibenzofuran	7.513	168	1100	1.0021501 ppb		98
12) Fluorene	7.863	166	1040	1.0280051 ppb		96
14) Hexachlorobenzene	8.439	284	315	1.0000000 ppb	#	91
15) Pentachlorophenol	8.643	266	112	1.0000000 ppb		90
16) Phenanthrene	8.854	178	1546	1.0000000 ppb		99
17) Anthracene	8.910	178	1283	0.9961180 ppb		100
18) Fluoranthene	10.071	202	1478	1.0020339 ppb		100
20) Pyrene	10.314	202	1375	1.0000000 ppb		99
22) Benzo(a)anthracene	11.513	228	1423	1.0000000 ppb		98
23) Chrysene	11.554	228	1311	1.0000000 ppb		99
25) Benzo(b)fluoranthene	12.631	252	1197	1.0000000 ppb		100
26) Benzo(k)fluoranthene	12.657	252	1195	1.0000000 ppb		96
27) Benzo(a)pyrene	13.018	252	1047	1.0000000 ppb		99
28) Indeno(1,2,3-cd)pyrene	14.565	276	1310	1.0000000 ppb		92
29) Dibenz(a,h)anthracene	14.560	278	1098	1.0000000 ppb		81
30) Benzo(g,h,i)perylene	15.016	276	1171	1.0000000 ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 03.D
Acq On : 21 May 2015 2:13 pm
Operator : 282
Sample : STD SIMLVI 1 PPB 15E19926
Misc : sim calibration
ALS Vial : 103 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:22:21 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:22:16 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 04.D
Acq On : 21 May 2015 2:35 pm
Operator : 282
Sample : STD SIMLVI 5 PPB 15E19926
Misc : sim calibration
ALS Vial : 104 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:23:08 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:23:01 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

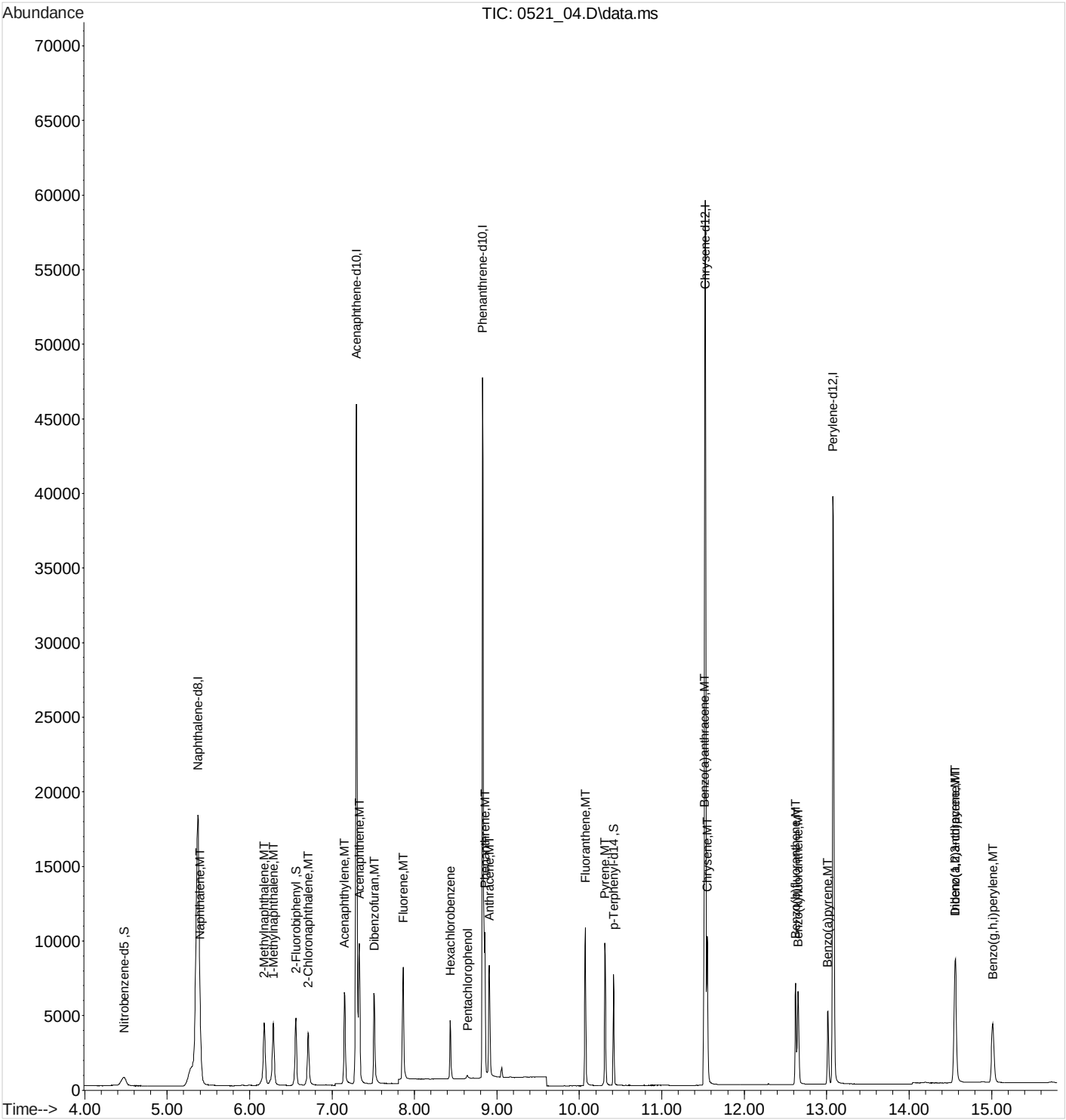
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.370	136	47000	40.0000000	ppb		0.00
6) Acenaphthene-d10	7.294	164	27154	40.0000000	ppb		0.00
13) Phenanthrene-d10	8.825	188	46765	40.0000000	ppb		0.00
19) Chrysene-d12	11.527	240	45551	40.0000000	ppb		0.00
24) Perylene-d12	13.077	264	44320	40.0000000	ppb		0.00
System Monitoring Compounds							
2) Nitrobenzene-d5	4.479	82	1725	4.4753787	ppb		0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 223.77%#				
7) 2-Fluorobiphenyl	6.561	172	4857	5.1548750	ppb		0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 257.74%#				
21) p-Terphenyl-d14	10.414	244	5501	5.0289833	ppb		0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 251.45%#				
Target Compounds							Qvalue
3) Naphthalene	5.397	128	6305	5.1199584	ppb		99
4) 2-Methylnaphthalene	6.178	142	4065	4.6493148	ppb		97
5) 1-Methylnaphthalene	6.288	142	3889	4.5909472	ppb		100
8) 2-Chloronaphthalene	6.710	162	4251	5.2701197	ppb		98
9) Acenaphthylene	7.151	152	5955	5.0434568	ppb		99
10) Acenaphthene	7.328	153	4328	4.9692582	ppb		98
11) Dibenzofuran	7.513	168	5561	5.1079565	ppb		91
12) Fluorene	7.863	166	4816	4.6788607	ppb		94
14) Hexachlorobenzene	8.432	284	1538	4.9232580	ppb	#	90
15) Pentachlorophenol	8.643	266	176	1.5845336	ppb		91
16) Phenanthrene	8.854	178	6986	4.5564426	ppb		99
17) Anthracene	8.910	178	6402	5.0314808	ppb		99
18) Fluoranthene	10.071	202	7383	5.0369222	ppb		98
20) Pyrene	10.310	202	6749	4.9448927	ppb		100
22) Benzo(a)anthracene	11.513	228	6701	4.7441112	ppb		98
23) Chrysene	11.550	228	6625	5.0910028	ppb		98
25) Benzo(b)fluoranthene	12.625	252	6111	5.0716274	ppb		100
26) Benzo(k)fluoranthene	12.652	252	6268	5.2106306	ppb		97
27) Benzo(a)pyrene	13.012	252	5268	4.9983687	ppb		97
28) Indeno(1,2,3-cd)pyrene	14.560	276	6712	5.0899071	ppb		94
29) Dibenz(a,h)anthracene	14.555	278	5511	4.9860574	ppb		92
30) Benzo(g,h,i)perylene	15.016	276	5880	4.9882664	ppb		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 04.D
Acq On : 21 May 2015 2:35 pm
Operator : 282
Sample : STD SIMLVI 5 PPB 15E19926
Misc : sim calibration
ALS Vial : 104 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:23:08 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:23:01 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 05.D
Acq On : 21 May 2015 2:56 pm
Operator : 282
Sample : STD SIMLVI 10 PPB 15E19926
Misc : sim calibration
ALS Vial : 105 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:23:36 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:23:01 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

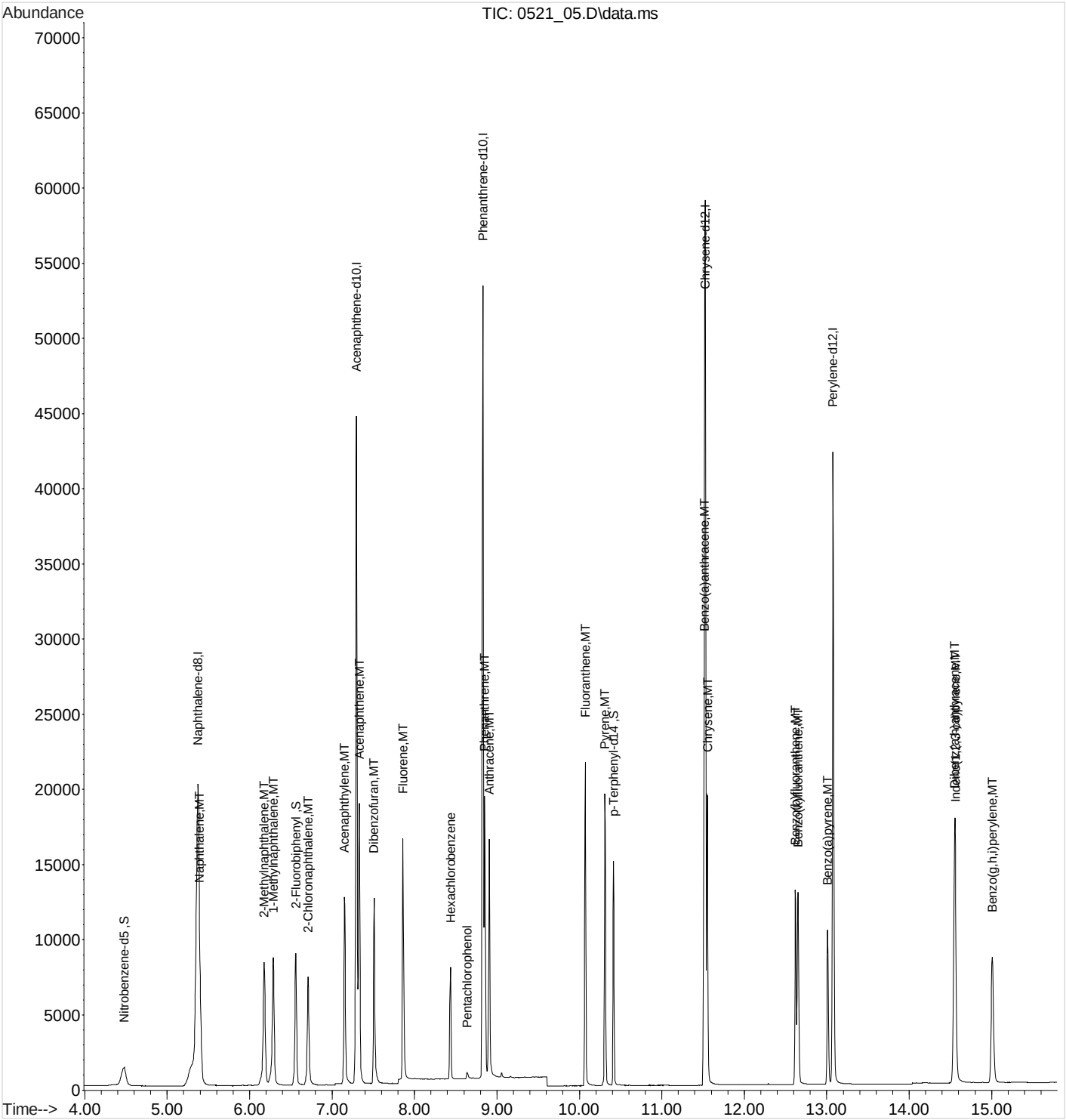
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.370	136	46013	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.294	164	26550	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.829	188	46150	40.0000000	ppb	0.00
19) Chrysene-d12	11.526	240	45104	40.0000000	ppb	0.00
24) Perylene-d12	13.076	264	43459	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.479	82	3396	8.9996512	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 449.98%#			
7) 2-Fluorobiphenyl	6.561	172	9601	10.4216334	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 521.08%#			
21) p-Terphenyl-d14	10.414	244	10896	10.0597804	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 502.99%#			
Target Compounds						Qvalue
3) Naphthalene	5.393	128	12294	10.1974565	ppb	100
4) 2-Methylnaphthalene	6.174	142	8155	9.5272964	ppb	98
5) 1-Methylnaphthalene	6.288	142	7675	9.2546510	ppb	100
8) 2-Chloronaphthalene	6.710	162	8467	10.7356469	ppb	99
9) Acenaphthylene	7.151	152	11884	10.2938650	ppb	99
10) Acenaphthene	7.328	153	8634	10.1387786	ppb	98
11) Dibenzofuran	7.509	168	11016	10.3487408	ppb	99
12) Fluorene	7.859	166	9341	9.2814601	ppb	97
14) Hexachlorobenzene	8.435	284	2985	9.6825517	ppb	97
15) Pentachlorophenol	8.639	266	298	2.7186562	ppb	97
16) Phenanthrene	8.850	178	13767	9.0988366	ppb	100
17) Anthracene	8.906	178	12773	10.1723735	ppb	100
18) Fluoranthene	10.071	202	14741	10.1908065	ppb	98
20) Pyrene	10.310	202	13425	9.9337813	ppb	100
22) Benzo(a)anthracene	11.513	228	13187	9.4285326	ppb	96
23) Chrysene	11.554	228	13212	10.2534230	ppb	98
25) Benzo(b)fluoranthene	12.619	252	12529	10.6040432	ppb	97
26) Benzo(k)fluoranthene	12.652	252	12316	10.4412142	ppb	97
27) Benzo(a)pyrene	13.012	252	10578	10.2354304	ppb	100
28) Indeno(1,2,3-cd)pyrene	14.560	276	13587	10.5075510	ppb	91
29) Dibenz(a,h)anthracene	14.549	278	11235	10.3662091	ppb	92
30) Benzo(g,h,i)perylene	15.010	276	11792	10.2018705	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 05.D
Acq On : 21 May 2015 2:56 pm
Operator : 282
Sample : STD SIMLVI 10 PPB 15E19926
Misc : sim calibration
ALS Vial : 105 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:23:36 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:23:01 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 06.D
Acq On : 21 May 2015 3:18 pm
Operator : 282
Sample : STD SIMLVI 20 PPB 15E19926
Misc : sim calibration
ALS Vial : 106 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:46:14 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:24:32 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

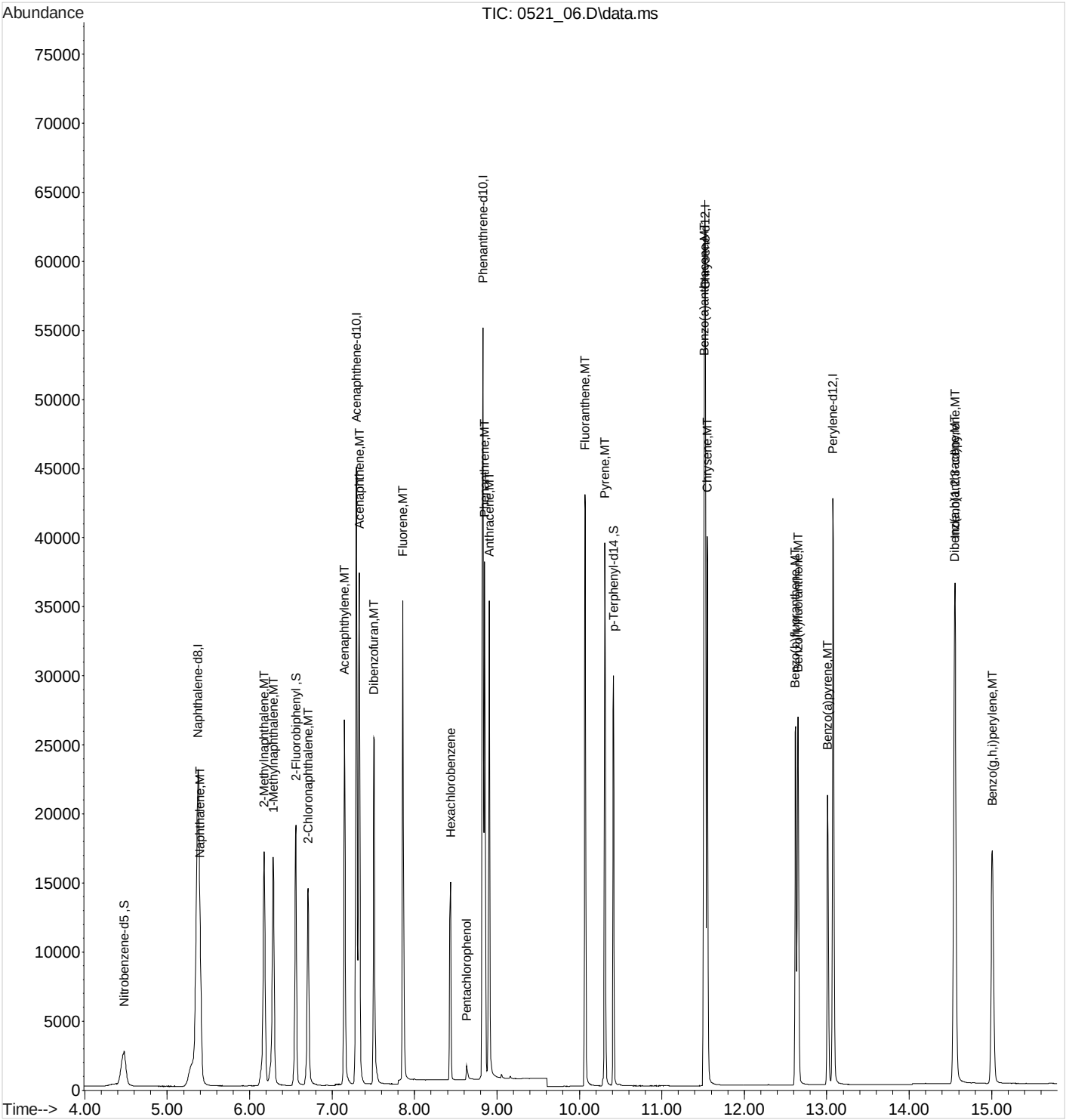
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.370	136	47400	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.294	164	27335	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.829	188	47343	40.0000000	ppb	0.00
19) Chrysene-d12	11.526	240	47323	40.0000000	ppb	0.00
24) Perylene-d12	13.076	264	45777	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.475	82	7008	19.3502861	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 967.51%#			
7) 2-Fluorobiphenyl	6.561	172	19258	19.8205223	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 991.03%#			
21) p-Terphenyl-d14	10.414	244	22218	19.4745724	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 973.73%#			
Target Compounds						Qvalue
3) Naphthalene	5.396	128	24526	19.4644290	ppb	100
4) 2-Methylnaphthalene	6.178	142	16425	19.3861373	ppb	100
5) 1-Methylnaphthalene	6.287	142	15503	19.1445003	ppb	99
8) 2-Chloronaphthalene	6.710	162	17074	20.1693087	ppb	98
9) Acenaphthylene	7.151	152	23928	19.8787938	ppb	99
10) Acenaphthene	7.328	153	17234	19.6059374	ppb	98
11) Dibenzofuran	7.509	168	22204	19.8857522	ppb	95
12) Fluorene	7.859	166	18358	18.5589924	ppb	95
14) Hexachlorobenzene	8.435	284	5980	19.2102990	ppb	92
15) Pentachlorophenol	8.632	266	609	10.2265896	ppb	98
16) Phenanthrene	8.850	178	27584	18.8978062	ppb	100
17) Anthracene	8.906	178	26388	20.3262967	ppb	100
18) Fluoranthene	10.067	202	29701	19.8405724	ppb	100
20) Pyrene	10.309	202	27204	19.2991211	ppb	99
22) Benzo(a)anthracene	11.513	228	27018	19.1014258	ppb	97
23) Chrysene	11.549	228	26515	19.3319901	ppb	98
25) Benzo(b)fluoranthene	12.619	252	25606	20.0744437	ppb	96
26) Benzo(k)fluoranthene	12.651	252	25245	19.7505683	ppb	97
27) Benzo(a)pyrene	13.012	252	21811	19.8821108	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.554	276	28212	20.2491063	ppb	94
29) Dibenz(a,h)anthracene	14.549	278	23269	20.1551799	ppb	91
30) Benzo(g,h,i)perylene	15.010	276	24267	19.8137110	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 06.D
Acq On : 21 May 2015 3:18 pm
Operator : 282
Sample : STD SIMLVI 20 PPB 15E19926
Misc : sim calibration
ALS Vial : 106 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:46:14 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:24:32 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 07.D
Acq On : 21 May 2015 3:39 pm
Operator : 282
Sample : MSTD SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 107 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:59:53 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:46:56 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

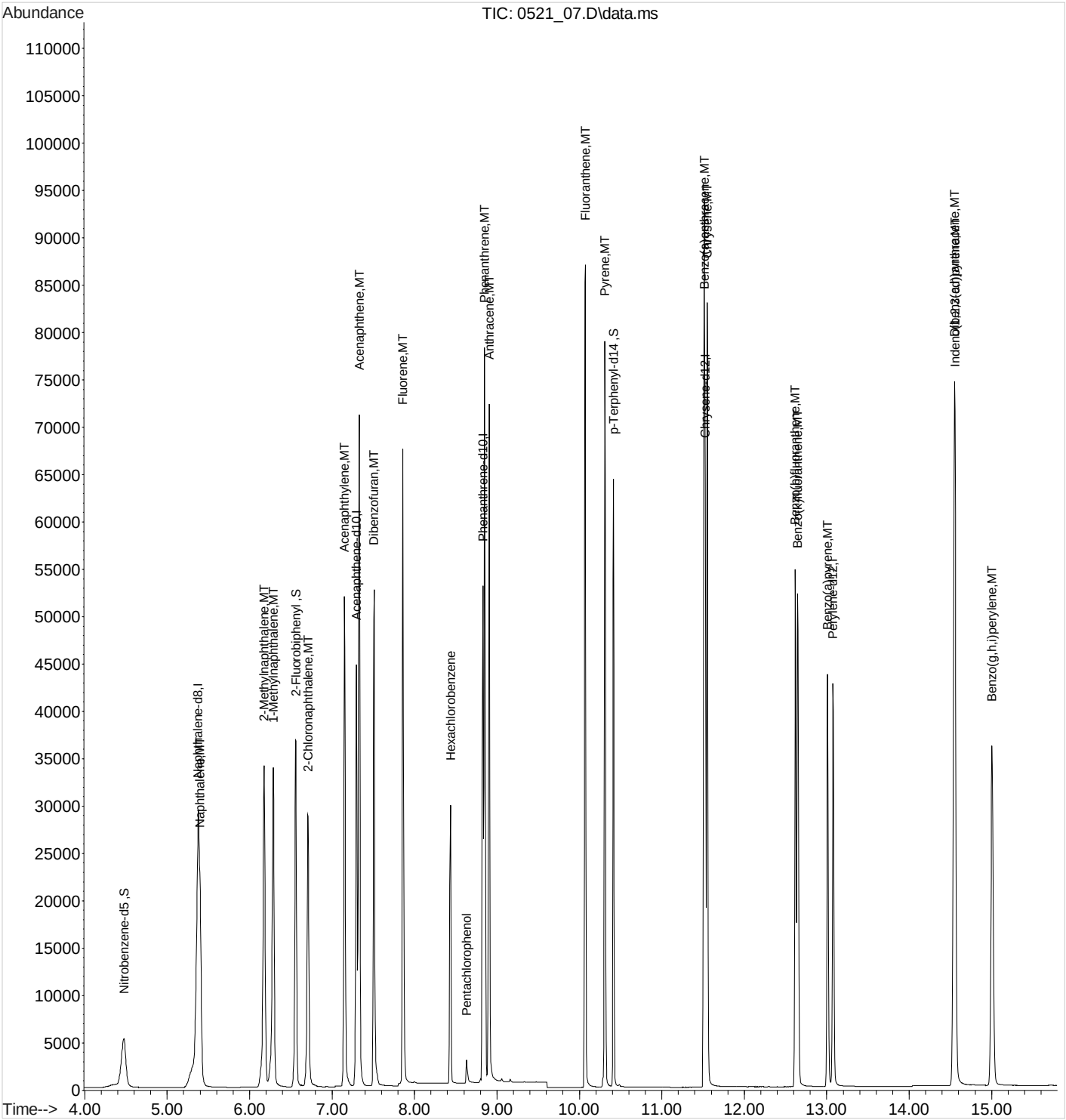
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.374	136	45665	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.294	164	26482	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.829	188	45646	40.0000000 ppb	0.00
19) Chrysene-d12	11.526	240	46528	40.0000000 ppb	0.00
24) Perylene-d12	13.076	264	44748	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.475	82	14031	40.5432251 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2027.16%#		
7) 2-Fluorobiphenyl	6.561	172	37604	40.0388574 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2001.94%#		
21) p-Terphenyl-d14	10.414	244	44489	39.9241137 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1996.21%#		
Target Compounds					Qvalue
3) Naphthalene	5.397	128	47955	39.7704897 ppb	100
4) 2-Methylnaphthalene	6.174	142	32519	40.1479416 ppb	98
5) 1-Methylnaphthalene	6.288	142	30545	39.5760589 ppb	100
8) 2-Chloronaphthalene	6.710	162	33785	41.1083273 ppb	98
9) Acenaphthylene	7.151	152	47982	41.2086854 ppb	99
10) Acenaphthene	7.328	153	33944	40.0569027 ppb	98
11) Dibenzofuran	7.509	168	43859	40.6030338 ppb	97
12) Fluorene	7.859	166	36060	38.3192615 ppb	96
14) Hexachlorobenzene	8.435	284	11759	39.5698783 ppb	94
15) Pentachlorophenol	8.632	266	1316	26.1102412 ppb	97
16) Phenanthrene	8.850	178	54432	39.2180998 ppb	100
17) Anthracene	8.906	178	53215	42.3419780 ppb	100
18) Fluoranthene	10.071	202	59486	41.2968842 ppb	97
20) Pyrene	10.310	202	54364	39.5726984 ppb	99
22) Benzo(a)anthracene	11.513	228	54867	39.9013291 ppb	97
23) Chrysene	11.549	228	53602	40.0834826 ppb	98
25) Benzo(b)fluoranthene	12.619	252	54179	43.4112726 ppb	97
26) Benzo(k)fluoranthene	12.646	252	48408	38.8643368 ppb	100
27) Benzo(a)pyrene	13.012	252	44190	41.2691066 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.554	276	57443	42.0467642 ppb	93
29) Dibenz(a,h)anthracene	14.549	278	47281	41.8145767 ppb	93
30) Benzo(g,h,i)perylene	15.004	276	49131	41.1331073 ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 07.D
Acq On : 21 May 2015 3:39 pm
Operator : 282
Sample : MSTD SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 107 Sample Multiplier: 1
InstName : BNAMS13

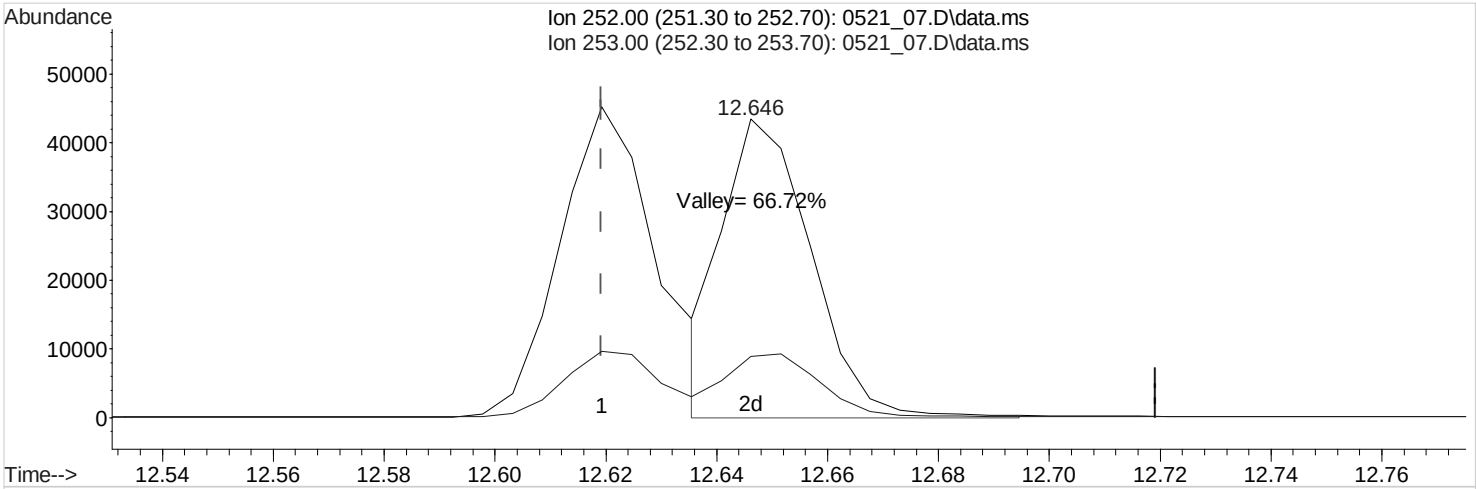
Quant Time: May 21 15:59:53 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:46:56 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

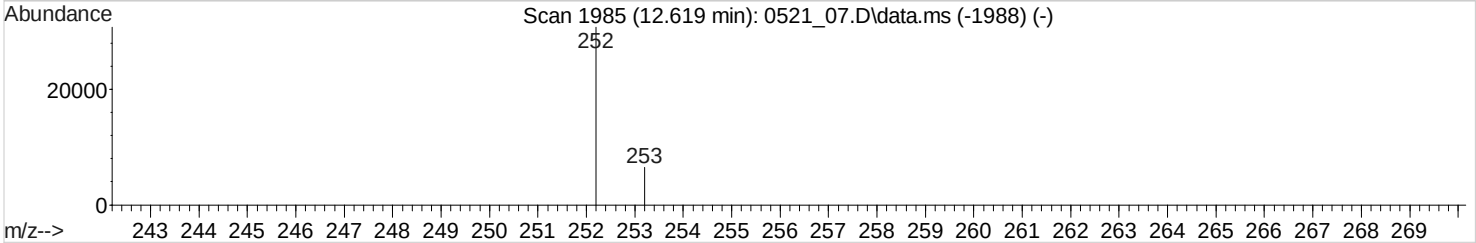


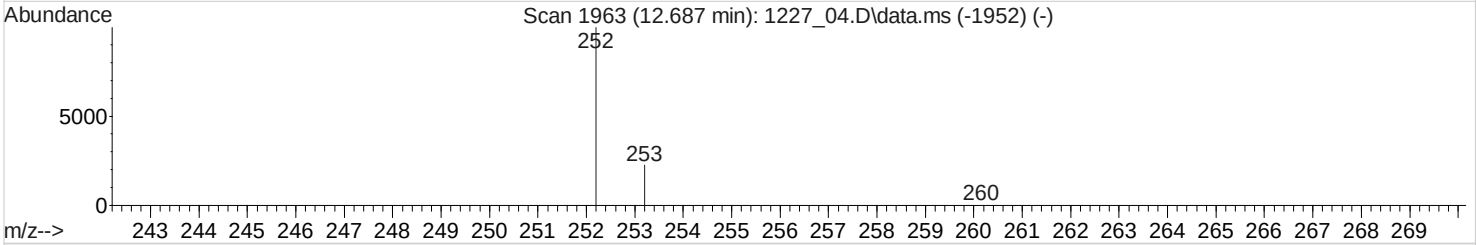
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 07.D
Acq On : 21 May 2015 3:39 pm
Operator : 282
Sample : MSTD SIMLVI 40 PPB 15E19926
Misc : sim calibration
ALS Vial : 107 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 15:59:53 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 15:46:56 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M







TIC: 0521_07.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.619min (+0.000) 43.4112726 ppb

Qvalue = 97

response 54179

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	21.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 08.D
Acq On : 21 May 2015 4:01 pm
Operator : 282
Sample : STD SIMLVI 80 PPB 15E19926
Misc : sim calibration
ALS Vial : 108 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 16:19:15 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:00:21 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

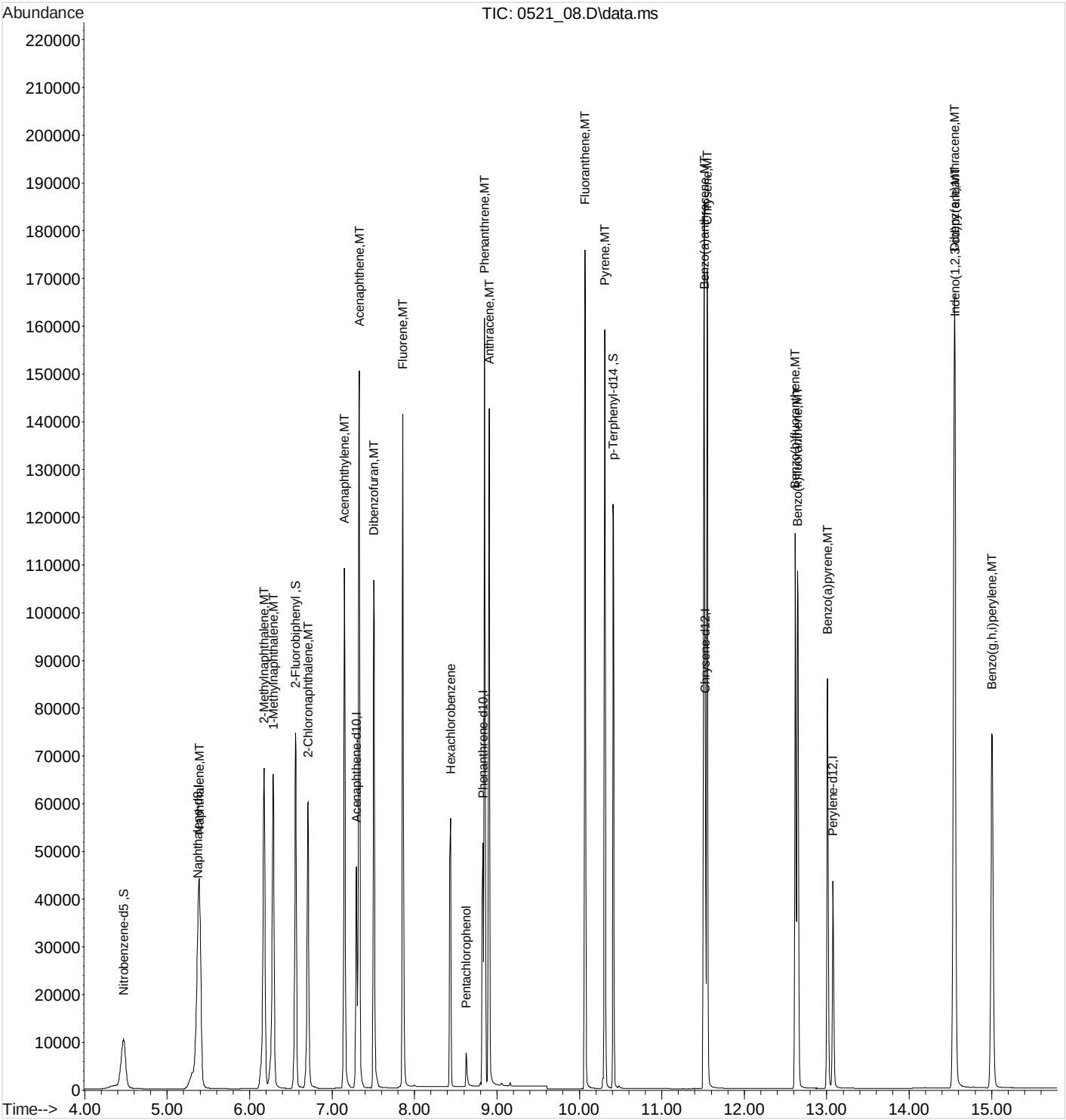
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.371	136	46095	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.295	164	26695	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.829	188	46445	40.0000000	ppb	0.00
19) Chrysene-d12	11.527	240	48242	40.0000000	ppb	0.00
24) Perylene-d12	13.077	264	46438	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.472	82	28318	80.8432731	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 4042.16%#			
7) 2-Fluorobiphenyl	6.558	172	75594	79.8309770	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 3991.55%#			
21) p-Terphenyl-d14	10.410	244	90734	78.5609260	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 3928.05%#			
Target Compounds						Qvalue
3) Naphthalene	5.389	128	95608	78.6411002	ppb	100
4) 2-Methylnaphthalene	6.174	142	65243	79.7385869	ppb	99
5) 1-Methylnaphthalene	6.288	142	60778	78.1789827	ppb	99
8) 2-Chloronaphthalene	6.710	162	67598	81.1447687	ppb	98
9) Acenaphthylene	7.151	152	97865	82.8785115	ppb	99
10) Acenaphthene	7.329	153	67841	79.3969644	ppb	99
11) Dibenzofuran	7.506	168	87833	80.4212522	ppb	97
12) Fluorene	7.859	166	72276	76.8371897	ppb	96
14) Hexachlorobenzene	8.436	284	23483	77.8299343	ppb	92
15) Pentachlorophenol	8.625	266	3556	74.5144034	ppb	99
16) Phenanthrene	8.850	178	109621	77.9275416	ppb	100
17) Anthracene	8.906	178	109466	84.6104661	ppb	100
18) Fluoranthene	10.067	202	121723	82.5148033	ppb	99
20) Pyrene	10.310	202	110932	78.0475098	ppb	98
22) Benzo(a)anthracene	11.513	228	113227	79.4565205	ppb	97
23) Chrysene	11.549	228	108400	78.1486669	ppb	99
25) Benzo(b)fluoranthene	12.619	252	112433	85.3533228	ppb	99
26) Benzo(k)fluoranthene	12.646	252	98579	76.6993601	ppb	99
27) Benzo(a)pyrene	13.012	252	91684	81.9874950	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.554	276	119566	83.4797972	ppb	92
29) Dibenz(a,h)anthracene	14.549	278	99635	84.1454357	ppb	94
30) Benzo(g,h,i)perylene	15.005	276	101002	81.0237693	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 08.D
Acq On : 21 May 2015 4:01 pm
Operator : 282
Sample : STD SIMLVI 80 PPB 15E19926
Misc : sim calibration
ALS Vial : 108 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 16:19:15 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:00:21 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 09.D
Acq On : 21 May 2015 4:23 pm
Operator : 282
Sample : STD SIMLVI 200 PPB 15E19926
Misc : sim calibration
ALS Vial : 109 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 16:44:10 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:19:54 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

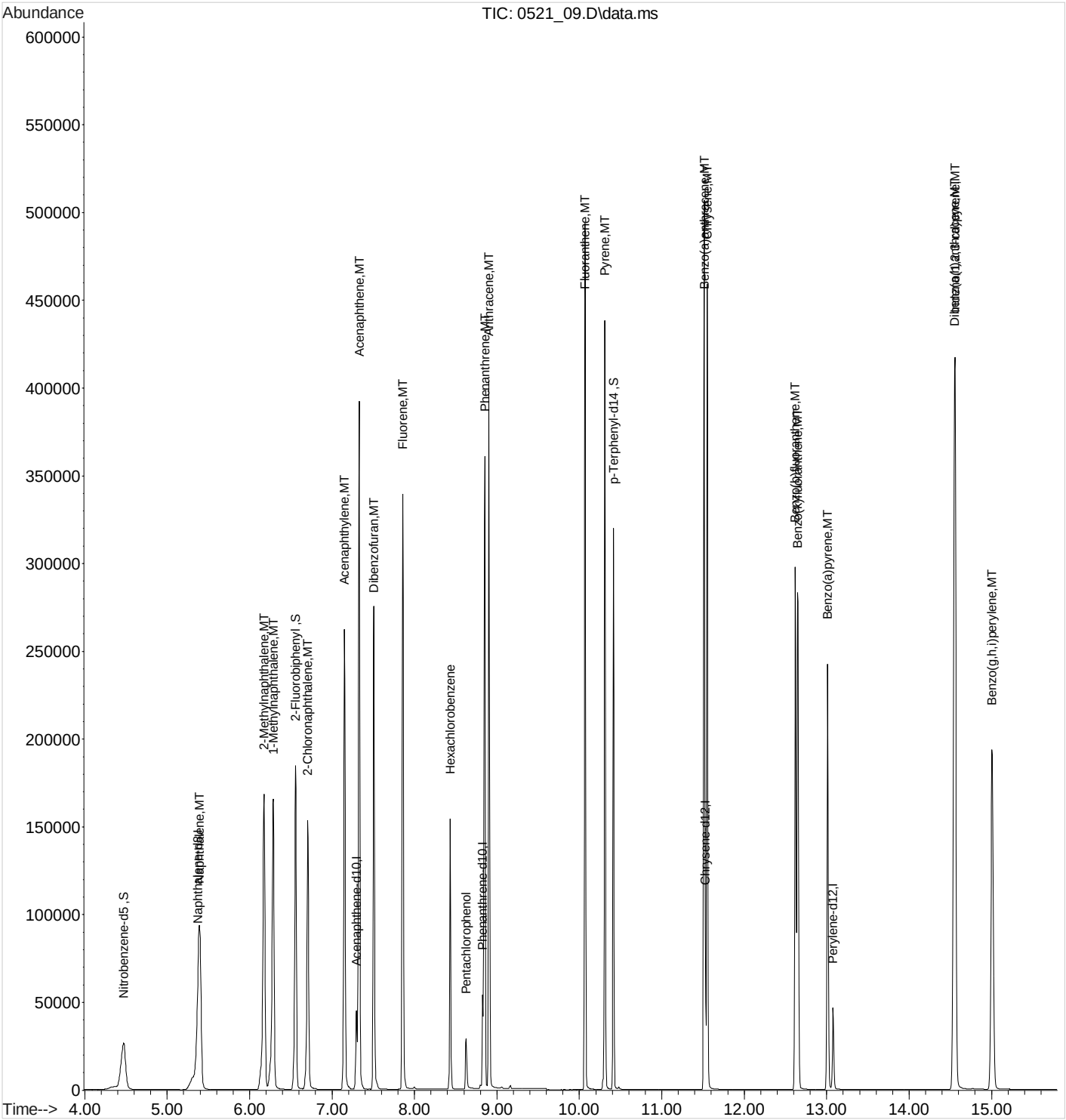
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.374	136	46258	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.294	164	26530	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.826	188	47031	40.0000000 ppb	0.00
19) Chrysene-d12	11.527	240	50700	40.0000000 ppb	0.00
24) Perylene-d12	13.077	264	48279	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.472	82	72243	205.1548289 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 10257.74%#	
7) 2-Fluorobiphenyl	6.557	172	187644	199.4639573 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 9973.20%#	
21) p-Terphenyl-d14	10.414	244	233947	193.3193665 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 9665.97%#	
Target Compounds					Qvalue
3) Naphthalene	5.393	128	238427	195.9787568 ppb	100
4) 2-Methylnaphthalene	6.174	142	164206	200.0908309 ppb	99
5) 1-Methylnaphthalene	6.288	142	151521	194.9549018 ppb	99
8) 2-Chloronaphthalene	6.706	162	168249	202.7390074 ppb	98
9) Acenaphthylene	7.151	152	249532	211.3668245 ppb	99
10) Acenaphthene	7.328	153	170149	200.6225247 ppb	98
11) Dibenzofuran	7.509	168	219311	201.8762511 ppb	89
12) Fluorene	7.856	166	181895	195.8672912 ppb	99
14) Hexachlorobenzene	8.432	284	58990	193.9519365 ppb	96
15) Pentachlorophenol	8.629	266	13434	281.2097745 ppb	93
16) Phenanthrene	8.854	178	277522	195.6719469 ppb	98
17) Anthracene	8.903	178	277700	209.9538876 ppb	99
18) Fluoranthene	10.068	202	312709	208.2499719 ppb	99
20) Pyrene	10.310	202	282103	189.6258039 ppb	99
22) Benzo(a)anthracene	11.513	228	298717	199.6865595 ppb	96
23) Chrysene	11.550	228	280708	193.3048341 ppb	98
25) Benzo(b)fluoranthene	12.620	252	291876	210.7771321 ppb	98
26) Benzo(k)fluoranthene	12.647	252	255338	192.4131256 ppb	99
27) Benzo(a)pyrene	13.012	252	244090	209.0859065 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.555	276	314929	209.9734994 ppb	94
29) Dibenz(a,h)anthracene	14.549	278	264433	212.9682818 ppb	92
30) Benzo(g,h,i)perylene	15.005	276	263043	202.5345688 ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 09.D
Acq On : 21 May 2015 4:23 pm
Operator : 282
Sample : STD SIMLVI 200 PPB 15E19926
Misc : sim calibration
ALS Vial : 109 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 16:44:10 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:19:54 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 10.D
Acq On : 21 May 2015 4:44 pm
Operator : 282
Sample : STD SIMLVI 1000 PPB 15E19926
Misc : sim calibration
ALS Vial : 110 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:04:14 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:44:51 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

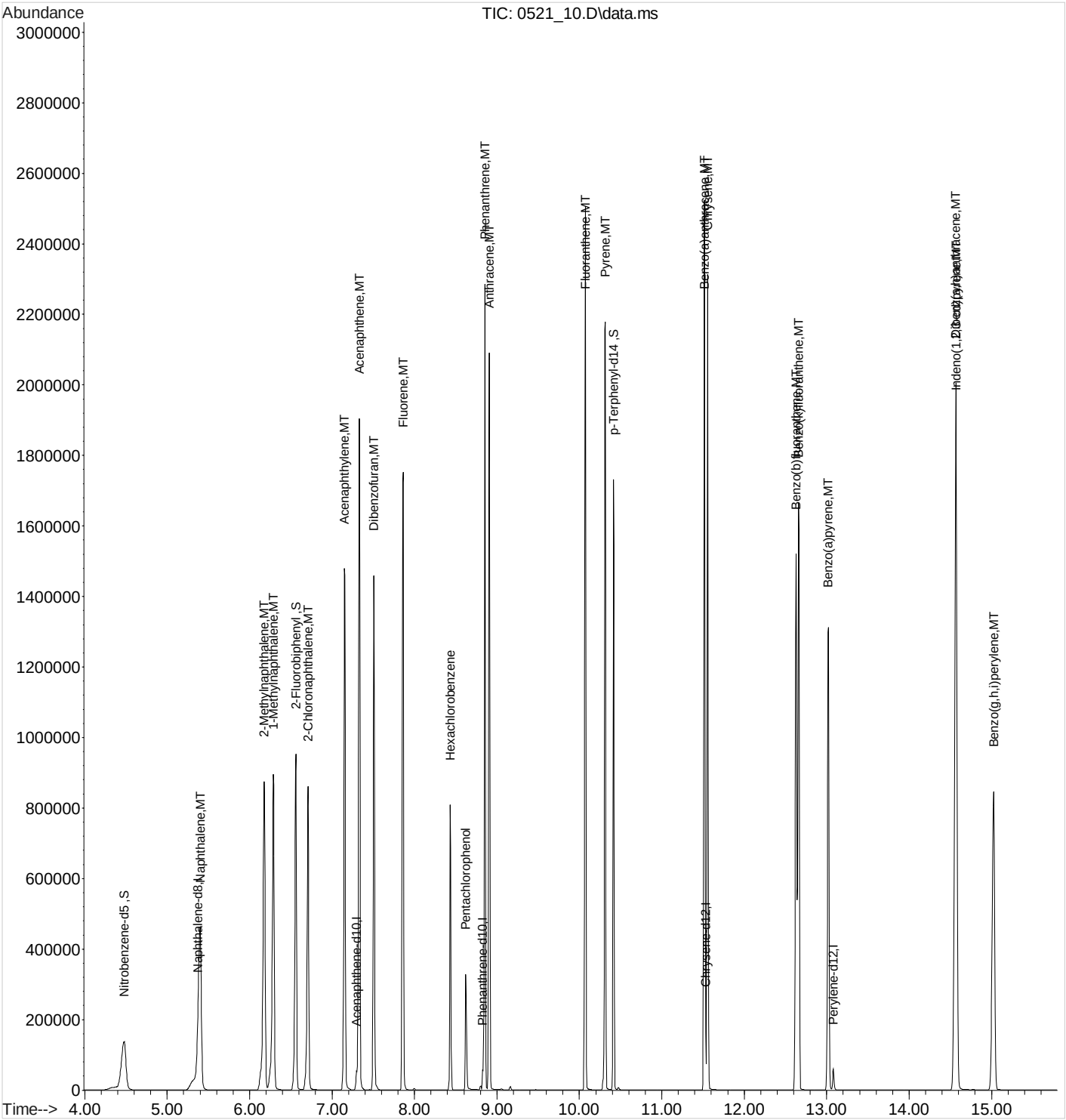
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.370	136	46856	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.298	164	27021	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.825	188	50736	40.0000000	ppb	0.00
19) Chrysene-d12	11.531	240	56775	40.0000000	ppb	0.00
24) Perylene-d12	13.082	264	58622	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.479	82	403144	1126.0862828	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 56304.31%#			
7) 2-Fluorobiphenyl	6.561	172	950528	992.4229840	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 49621.15%#			
21) p-Terphenyl-d14	10.414	244	1287680	954.7595515	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 47737.98%#			
Target Compounds						Qvalue
3) Naphthalene	5.400	128	1187129	966.1005857	ppb	100
4) 2-Methylnaphthalene	6.178	142	833814	1002.9997241	ppb	100
5) 1-Methylnaphthalene	6.288	142	762027	971.4516717	ppb	100
8) 2-Chloronaphthalene	6.710	162	862314	1018.2097598	ppb	99
9) Acenaphthylene	7.151	152	1312701	1082.9299250	ppb	99
10) Acenaphthene	7.332	153	871560	1008.5335324	ppb	98
11) Dibenzofuran	7.509	168	1128202	1018.2768512	ppb	99
12) Fluorene	7.863	166	970677	1029.2849737	ppb	91
14) Hexachlorobenzene	8.432	284	322608	987.5044953	ppb	99
15) Pentachlorophenol	8.622	266	128526	2357.1950183	ppb	99
16) Phenanthrene	8.854	178	1487758	975.3851034	ppb	99
17) Anthracene	8.910	178	1508588	1049.8078223	ppb	99
18) Fluoranthene	10.071	202	1671416	1025.7591481	ppb	99
20) Pyrene	10.314	202	1497895	905.8412291	ppb	98
22) Benzo(a)anthracene	11.518	228	1623987	969.6600512	ppb	97
23) Chrysene	11.554	228	1423537	879.6084499	ppb	98
25) Benzo(b)fluoranthene	12.630	252	1555375	917.9678654	ppb	100
26) Benzo(k)fluoranthene	12.657	252	1519581	948.2015457	ppb	98
27) Benzo(a)pyrene	13.018	252	1396407	978.7572436	ppb	98
28) Indeno(1,2,3-cd)pyrene	14.571	276	1488045	811.3021322	ppb	95
29) Dibenz(a,h)anthracene	14.565	278	1305944	858.2564718	ppb	90
30) Benzo(g,h,i)perylene	15.027	276	1151050	728.5824339	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 10.D
Acq On : 21 May 2015 4:44 pm
Operator : 282
Sample : STD SIMLVI 1000 PPB 15E19926
Misc : sim calibration
ALS Vial : 110 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:04:14 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 16:44:51 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 11.D
Acq On : 21 May 2015 5:06 pm
Operator : 282
Sample : STD SIMLVI 2000 PPB 15E19926
Misc : sim calibration
ALS Vial : 111 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:47:42 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:05:03 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M

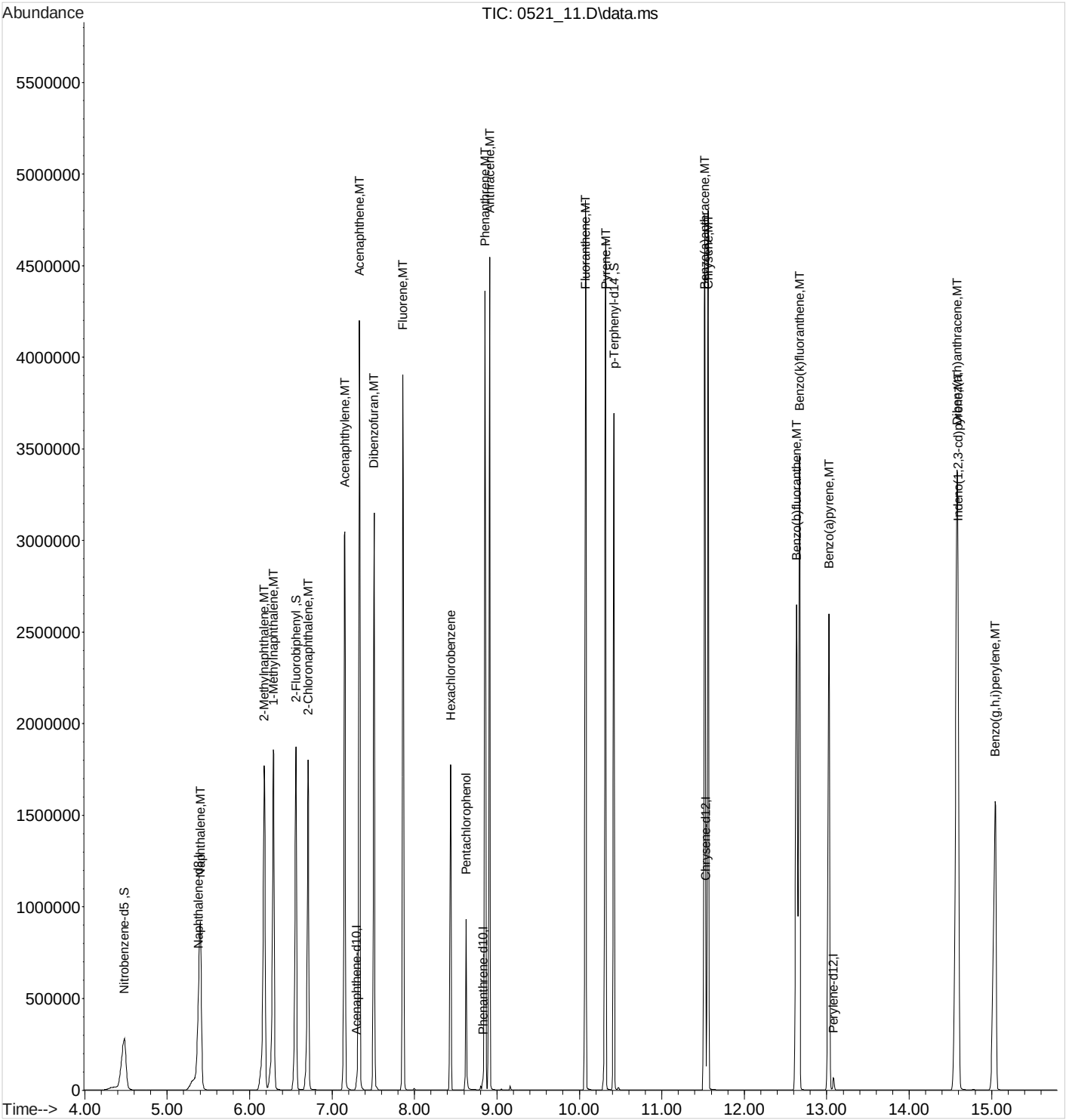
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.378	136	48006	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.298	164	27574	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.829	188	52377	40.0000000	ppb	0.00
19) Chrysene-d12	11.531	240	66608	40.0000000	ppb	0.00
24) Perylene-d12	13.082	264	64872	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.479	82	756984	2031.7787586	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 101588.94%#			
7) 2-Fluorobiphenyl	6.561	172	1975012	2022.6223927	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 101131.12%#			
21) p-Terphenyl-d14	10.418	244	2748774	1747.1040694	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 87355.20%#			
Target Compounds						Qvalue
3) Naphthalene	5.401	128	2375496	1894.9276195	ppb	100
4) 2-Methylnaphthalene	6.178	142	1697540	1992.3173758	ppb	100
5) 1-Methylnaphthalene	6.288	142	1575258	1967.0925524	ppb	99
8) 2-Chloronaphthalene	6.710	162	1786307	2062.2539226	ppb	98
9) Acenaphthylene	7.155	152	2731588	2185.6094233	ppb	99
10) Acenaphthene	7.332	153	1812965	2053.6248320	ppb	98
11) Dibenzofuran	7.509	168	2339189	2064.2148811	ppb	93
12) Fluorene	7.859	166	2071313	2144.4769643	ppb	98
14) Hexachlorobenzene	8.436	284	694470	2062.3953202	ppb	97
15) Pentachlorophenol	8.625	266	322885	4904.2466474	ppb	98
16) Phenanthrene	8.857	178	3039084	1935.9781774	ppb	96
17) Anthracene	8.913	178	3120363	2090.3757319	ppb	97
18) Fluoranthene	10.075	202	3436751	2036.5185995	ppb	96
20) Pyrene	10.317	202	3102840	1618.4628758	ppb	97
22) Benzo(a)anthracene	11.522	228	3326753	1699.5676339	ppb	99
23) Chrysene	11.563	228	2963107	1584.4701673	ppb	97
25) Benzo(b)fluoranthene	12.636	252	3475047	1872.5466373	ppb	100
26) Benzo(k)fluoranthene	12.668	252	3062157	1737.9157434	ppb	95
27) Benzo(a)pyrene	13.028	252	2883541	1831.2480780	ppb	98
28) Indeno(1,2,3-cd)pyrene	14.592	276	3051558	1539.7778783	ppb	94
29) Dibenz(a,h)anthracene	14.581	278	2705952	1635.9866405	ppb	90
30) Benzo(g,h,i)perylene	15.043	276	2348812	1390.6769335	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052115\
Data File : 0521 11.D
Acq On : 21 May 2015 5:06 pm
Operator : 282
Sample : STD SIMLVI 2000 PPB 15E19926
Misc : sim calibration
ALS Vial : 111 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: May 21 17:47:42 2015
Quant Method : C:\msdchem\1\METHODS\SS13E21O.M
Quant Title : 8270 BNA
QLast Update : Thu May 21 17:05:03 2015
Response via : Initial Calibration
DataAcq Meth:SIMM.M



22

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 1

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210 23446543.0062AB
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

F169

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020/7470A	Dis Met/6010B/6020/7470A	TDS	Remarks
					2 X 40ml V Amb, HCl, <6C	3 X 40ml V Amb, HCl, <6C	2 X 40ml V Amb, HCl, <6C	2 X 100ml G Amb, <6C	2 X 100ml G Amb, <6C	1 X 500ml P, HNO3, <6C	1 X 500ml P, HNO3, <6C	1 X 250ml P, <6C	
H-SS059-FieldBlank-FT01	5/21/15	1713	WQ	2			X						L767115 -01
H-SS059-MW50-DT01	5/21/15	1228	GW	8			X	X	X	X		X	-02
H-SS059-MW50-DD01	5/21/15	1228	GW	1							X		-03
H-SS059-MW50-ND01	5/21/15	1228	GW	1							X		-04
H-SS059-MW50-NT01	5/21/15	1228	GW	8			X	X	X	X		X	-05
H-SS059-MW51-ND01	5/21/15	1528	GW	3							X		MS/MSD -06
H-SS059-MW51-NT01	5/21/15	1528	GW	24			X	X	X	X		X	MS/MSD -07
H-SS059-MW52-ND01	5/21/15	1713	GW	1							X		-08
H-SS059-MW52-NT01	5/21/15	1713	GW	8			X	X	X	X		X	-09

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: [signature]	Signature:	Signature:	Signature: [signature]
Printed Name: Patrick W. Osborne	Printed Name:	Printed Name:	Printed Name: Nikki Sloan
Firm: URS	Firm:	Firm:	Firm: ESC
Date/Time: 5/22/15 / 0800	Date/Time:	Date/Time:	Date/Time: 5/23/15 09:00

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:
   6010B- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020 - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

60

6361019448 35 6361019448 24

Container Key: P = Plastic Amb = Amber V = Vial G = Glass

22

3.0
JWS
JWS

22

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 1

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210 23446543.0056AB
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020/7470A	Dis Met/6010B/6020/7470A	TDS	Remarks
					2 X 40ml V Amb, HCl, <6C	3 X 40ml V Amb, HCl, <6C	2 X 40ml V Amb, HCl, <6C	2 X 100ml G Amb, <6C	2 X 100ml G Amb, <6C	1 X 500ml P, HNO3, <6C	1 X 500ml P, HNO3, <6C	1 X 250ml P, <6C	
H-TU506-MW04-NT02	5/21/15	1030	GW	2						X		X	L767115 -10

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: [signature]	Signature:	Signature:	Signature: [signature]
Printed Name: Patrick W. Oslak	Printed Name:	Printed Name:	Printed Name: Nikki Sloan
Firm: URS	Firm:	Firm:	Firm: ESC
Date/Time: 5/22/15 0800	Date/Time:	Date/Time:	Date/Time: 5/23/15 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010B- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020 - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic Amb = Amber V = Vial G = Glass

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	60425210 23446543.0058AB
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020/7470A	Dis Met/6010B/6020/7470A	TDS	Remarks
					2 X 40ml V Amb, HCl, <6C	3 X 40ml V Amb, HCl, <6C	2 X 40ml V Amb, HCl, <6C	2 X 100ml G Amb, <6C	2 X 100ml G Amb, <6C	1 X 500ml P, HNO3, <6C	1 X 500ml P, HNO3, <6C	1 X 250ml P, <6C	
H-TUQC-Tripblank-TT02	5/21/15	0800	WQ	2			X						L767115-11

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Patrick W. Ostrye	Signature:	Signature:	Signature:
Printed Name: Patrick W. Ostrye	Printed Name:	Printed Name:	Printed Name: Nikki Sloan
Firm: URS	Firm:	Firm:	Firm: ESC
Date/Time: 5/22/15 0800	Date/Time:	Date/Time:	Date/Time: 5/23/15 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010B- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020 - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

60

Container Key: P = Plastic Amb = Amber V = Vial G = Glass

OW

J 3.2°C

Pam Langford

From: Fling, Sheri <sheri.fling@aecom.com>
Sent: Tuesday, June 02, 2015 11:30 AM
To: Pam Langford
Subject: RE: Holloman

Can we cancel the analysis? How much would it be?

From: Pam Langford [mailto:plangford@esclabsciences.com]
Sent: Tuesday, June 02, 2015 10:26 AM
To: Fling, Sheri
Subject: RE: Holloman

We have – at this point only final results for mercury and aluminum. ICP/MS analysis is not final at this point.
Do I need to try and get additional information for you?

Pamela A. Langford
Lab Documentation Chemist
ESC Lab Sciences
12065 Lebanon Road
Mt. Juliet, TN 37122
Direct: 615-773-9687
plangford@esclabsciences.com

From: Fling, Sheri [mailto:sheri.fling@aecom.com]
Sent: Tuesday, June 02, 2015 11:08 AM
To: Pam Langford; Abbott, Katie; Gladych, Stan; Mott, Jeff
Subject: Holloman

Pam –

Have you started the metals analysis on sample TU506-MW05-NT02 (L767115-10)?

Thanks

Sheri Fling
AECOM
Senior Chemist/Project Manager
8181 E. Tufts Avenue Denver, CO 80237
303-740-3909 (Work - Direct)
303-332-5297 (cell)

URS and AECOM have joined together as one company. *Learn more.*

Please note that my e-mail address has changed to **sheri.fling@aecom.com**

This e-mail and any attachments contain AECOM confidential information that may be proprietary or privileged. If you receive this message in error or are not the intended recipient, you should not retain, distribute, disclose or use any of this information and you should destroy the e-mail and any attachments or copies.

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ESC Lab Sciences

Login Confirmation Report

May 26, 2015 - 14:07

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L767115**	Receive Date: 05/23/2015	TSR: Pam Langford
Template #		Entered: 05/23/2015	By: Jason Romer
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 60425210 23446543.00	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By: Jon Mallonee	PO Req: Y
Phone:	(303) 740-3909 FAX:	Reg. State: AZ	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com,bmock@esclabsciences.com,tmellette@esclabsciences.com		Quote #

Proj/Acct Comments: **PO #'s needed**

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L767115-01		**H-SS059-FIELDBLANK-FT01**	**05/21/2015 17:13** Sample Description: Hollman AFB Sample Comments: EDD/QC4/DOD	**Site:**	**Est. Due Date*: 06/01/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00

L767115-02		H-SS059-MW52-DT01	05/21/2015 12:28 Sample Description: Hollman AFB	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAG	Barium by ICPMS		PPBDOD	6020	$ 0.00
GW	BEG	Beryllium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUG	Copper by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNG	Manganese by ICPMS		PPBDOD	6020	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VG	Vanadium by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNG	Zinc by ICPMS		PPBDOD	6020	$ 0.00

L767115-03		H-SS059-MW52-DD01	05/21/2015 12:28 Sample Description: Hollman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADG	Barium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	BEDG	Beryllium, Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDG	Copper,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDG	Manganese, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDG	Vanadium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNDG	Zinc,Diss. by ICPMS		PPBDOD	6020	$ 0.00

L767115-04		H-SS059-MW52-ND01	05/21/2015 12:28 Sample Description: Hollman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADG	Barium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	BEDG	Beryllium, Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDG	Copper,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDG	Manganese, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDG	Vanadium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNDG	Zinc,Diss. by ICPMS		PPBDOD	6020	$ 0.00

L767115-05		H-SS059-MW52-NT01	05/21/2015 12:28 Sample Description: Hollman AFB	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAG	Barium by ICPMS		PPBDOD	6020	$ 0.00
GW	BEG	Beryllium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUG	Copper by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNG	Manganese by ICPMS		PPBDOD	6020	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VG	Vanadium by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNG	Zinc by ICPMS		PPBDOD	6020	$ 0.00

L767115-06		H-SS059-MW51-ND01	05/21/2015 15:28	Site:	Est. Due Date*: 06/01/2015 - R5	
			Sample Description: Hollman AFB			
			Sample Comments: Field Filtered. EDD/QC4/DOD - MS/MSD sample			
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADG	Barium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	BEDG	Beryllium, Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDG	Copper,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDG	Manganese, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDG	Vanadium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNDG	Zinc,Diss. by ICPMS		PPBDOD	6020	$ 0.00

L767115-07		H-SS059-MW51-NT01	05/21/2015 15:28	Site:	Est. Due Date*: 06/01/2015 - R5	
			Sample Description: Hollman AFB			
			Sample Comments: EDD/QC4/DOD - MS/MSD sample			
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAG	Barium by ICPMS		PPBDOD	6020	$ 0.00
GW	BEG	Beryllium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUG	Copper by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNG	Manganese by ICPMS		PPBDOD	6020	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VG	Vanadium by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNG	Zinc by ICPMS		PPBDOD	6020	$ 0.00

L767115-08		H-SS059-MW50-ND01	05/21/2015 17:13 Sample Description: Hollman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADG	Barium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	BEDG	Beryllium, Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDG	Copper,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDG	Manganese, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDG	Vanadium, Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNDG	Zinc,Diss. by ICPMS		PPBDOD	6020	$ 0.00

L767115-09		H-SS059-MW50-NT01	05/21/2015 17:13 Sample Description: Hollman AFB	Site:	Est. Due Date*: 06/01/2015 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAG	Barium by ICPMS		PPBDOD	6020	$ 0.00
GW	BEG	Beryllium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUG	Copper by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNG	Manganese by ICPMS		PPBDOD	6020	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VG	Vanadium by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNG	Zinc by ICPMS		PPBDOD	6020	$ 0.00

L767115-10		**H-TU506-MW05-NT02**	**05/21/2015 10:30**	**Site:**	**Est. Due Date*: 06/01/2015 - R5**	
			Sample Description: Hollman AFB			
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAG	Barium by ICPMS		PPBDOD	6020	$ 0.00
GW	BEG	Beryllium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUG	Copper by ICPMS		PPBDOD	6020	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNG	Manganese by ICPMS		PPBDOD	6020	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	VG	Vanadium by ICPMS		PPBDOD	6020	$ 0.00
GW	ZNG	Zinc by ICPMS		PPBDOD	6020	$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set				$ 0.00
L767115-11		**H-TUQC-TRIPBLANK-TT02**	**05/21/2015 08:00**	**Site:**	**Est. Due Date*: 06/01/2015 - R5**	
			Sample Description: Hollman AFB			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 1,771.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**