Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/12/09

Technical Report for

ERM Salt Lake City

Vertellus-Provo

Accutest Job Number: T39646

Sampling Dates: 10/08/09 - 10/09/09

Report to:

ERM

Kevin.Lundmark@erm.com

ATTN: Kevin Lundmark

Total number of pages in report: **1607**

ACCREDITED IN ACCORDANCE WITH nelac

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

Paul K Canevaro

Paul Canevaro
Laboratory Director

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Accutest Laboratories

Sample Summary

ERM Salt Lake City

Vertellus-Provo

Job No: T39646

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T39646-1	10/08/09	10:45	KB	10/10/09	AQ	Ground Water	MW9:1009
T39646-2	10/08/09	11:50	KB	10/10/09	AQ	Ground Water	MW8:1009
T39646-3	10/08/09	13:05	KB	10/10/09	AQ	Ground Water	MW32:1009
T39646-4	10/08/09	14:30	KB	10/10/09	AQ	Ground Water	MW31:1009
T39646-5	10/08/09	00:00	KB	10/10/09	AQ	Ground Water	DUP
T39646-6	10/08/09	15:15	KB	10/10/09	AQ	Ground Water	MW3:1009
T39646-7	10/08/09	15:55	KB	10/10/09	AQ	Ground Water	TW1:1009
T39646-8	10/08/09	16:30	KB	10/10/09	AQ	Ground Water	TW3:1009
T39646-9	10/09/09	08:30	KB	10/10/09	AQ	Ground Water	MW5:1009
T39646-10	10/09/09	09:40	KB	10/10/09	AQ	Ground Water	MW34:1009
T39646-11	10/09/09	00:00	KB	10/10/09	AQ	Ground Water	DUP2
T39646-12	10/08/09	00:00	KB	10/10/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	ERM Salt Lake City	**Job No**	T39646
Site:	Vertellus-Provo	**Report Date**	10/29/2009 8:58:23 AM

11 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/08/2009 and 10/09/2009 and were received at Accutest on 10/10/2009 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of T39646. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VC175

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39308-1MS, T39308-1MSD were used as the QC samples indicated.
- Sample(s) T39513-1MSD, T39646-3 have surrogates outside control limits. Outside control limits due to matrix interference. There were no target compounds associated with this surrogate.

Matrix AQ **Batch ID:** VF3599

- All samples were analyzed within the recommended method holding time.
- Sample(s) T39513-1MS, T39513-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Methylene chloride are outside control limits.
- Matrix Spike Recovery(s) for Acetone, Methylene bromide are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acetone, Methylene bromide are outside control limits. Probable cause due to matrix interference.

Matrix AQ **Batch ID:** VF3600

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39646-4MS, T39646-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzene, Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix AQ **Batch ID:** VF3602

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39646-6MS, T39646-6MSD were used as the QC samples indicated.

Matrix AQ **Batch ID:** VF3603

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39537-1MS, T39537-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	**Batch ID:** OP13250

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) T39646-8MS, T39646-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Benzenethiol, Fluoranthene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzenethiol are outside control limits. Probable cause due to matrix interference.
- Sample(s) T39646-10, T39646-2, T39646-3, T39646-5 have surrogates outside control limits. Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	**Batch ID:** OP13271

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) OP13271-MB, T39646-2, T39646-6 have surrogates outside control limits. Probable cause due to matrix interference.
- T39646-9-10-11: Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
- OP13271-BS: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
- OP13271-BSD: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
- T39646-2-6: Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP10445

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39513-1DUP, T39513-1MSD, T39513-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method EPA 335.4

Matrix AQ	**Batch ID:** GP7035

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39646-6MS, T39646-6DUP were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP7035-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix AQ	**Batch ID:** GP7036

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39672-1DUP, T39672-1MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SM 4500 SO4

Matrix AQ	**Batch ID:** GN18454

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39675-1DUP, T39675-1MS were used as the QC samples for Sulfate.

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

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020719.D	1	10/13/09	AP	n/a	n/a	VF3599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	121	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	15.9	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	33.3	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	52.5	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	82%		75-121%
2037-26-5	Toluene-D8	87%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13847.D	4	10/15/09	SC	10/14/09	OP13250	EJ635
Run #2	J13830.D	40	10/14/09	SC	10/14/09	OP13250	EJ634

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	46.7	40	5.2	ug/l	
105-67-9	2,4-Dimethylphenol	3340 [a]	200	51	ug/l	
95-48-7	2-Methylphenol	400 [a]	200	33	ug/l	
	3&4-Methylphenol	259	20	6.3	ug/l	
108-95-2	Phenol	147	20	3.0	ug/l	
83-32-9	Acenaphthene	235	20	6.2	ug/l	
86-73-7	Fluorene	34.1	20	5.4	ug/l	
91-20-3	Naphthalene	1690 [a]	200	45	ug/l	
85-01-8	Phenanthrene	64.2	20	3.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%	32%	10-66%
4165-62-2	Phenol-d5	37%	23%	10-53%
118-79-6	2,4,6-Tribromophenol	53%	48%	32-128%
4165-60-0	Nitrobenzene-d5	58%	46%	29-115%
321-60-8	2-Fluorobiphenyl	55%	50%	34-113%
1718-51-0	Terphenyl-d14	43%	76%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
271-89-6	Benzofuran	4.59	130	ug/l	JN
611-15-4	Benzene, 1-ethenyl-2-methyl-	4.86	240	ug/l	JN
108-75-8	Pyridine, 2,4,6-trimethyl-	4.92	62	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.81	230	ug/l	JN
935-44-4	1-Phenyl-1-cyclopropanecarbonitril	7.22	50	ug/l	JN
1075-38-3	Benzene, 1-(1,1-dimethylethyl)-3-m	7.49	100	ug/l	JN
65079-19-8	6-Quinolinamine, 2-methyl-	7.60	42	ug/l	JN
27587-17-3	1,4-Benzenedicarboxaldehyde, 2-met	7.66	59	ug/l	JN
487-68-3	Benzaldehyde, 2,4,6-trimethyl-	7.78	76	ug/l	JN
700-12-9	Benzene, pentamethyl-	8.03	60	ug/l	JN
1008-89-5	Pyridine, 2-phenyl-	8.17	87	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
613-46-7	2-Naphthalenecarbonitrile	8.53	290	ug/l	JN
90-15-3	1-Naphthalenol	8.67	760	ug/l	JN
134-32-7	1-Naphthalenamine	8.89	230	ug/l	JN
10500-57-9	Quinoline, 5,6,7,8-tetrahydro-	10.37	230	ug/l	JN
635-46-1	Quinoline, 1,2,3,4-tetrahydro-	10.54	45	ug/l	JN
7383-90-6	1,1'-Biphenyl, 3,4'-dimethyl-	10.76	88	ug/l	JN
2721-59-7	2(1H)-Quinolinone, 3-methyl-	11.83	110	ug/l	JN
17452-18-5	1-(4-Trifluoromethylphenyl)imidazo	13.56	89	ug/l	JN
1000110-69-7	4,7-Dihydroxyimino-2-phenyl-4,5,6,	14.04	70	ug/l	JN
133727-45-4	5,11-Dihydro-8-methylthio-6H-pyrid	14.25	79	ug/l	JN
99-52-5	Benzenamine, 2-methyl-4-nitro-	16.37	100	ug/l	JN
99-55-8	Benzenamine, 2-methyl-5-nitro-	16.97	50	ug/l	JN
56830-85-4	Indeno[2',1':4,5]thieno[3,2-b]thio	17.10	54	ug/l	JN
1000131-43-8	Pyridin[4,3,2-m,N]2H-acridin, 5,6-	17.46	77	ug/l	JN
	Total TIC, Semi-Volatile		3408	ug/l	J

(a) Result is from Run# 2
(b) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35594.D	4	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	8.5	0.80	0.29	ug/l	
120-12-7	Anthracene	8.6	0.80	0.21	ug/l	
56-55-3	Benzo(a)anthracene	0.16 U	0.80	0.16	ug/l	
50-32-8	Benzo(a)pyrene	0.26 U	0.80	0.26	ug/l	
205-99-2	Benzo(b)fluoranthene	0.24 U	0.80	0.24	ug/l	
207-08-9	Benzo(k)fluoranthene	0.22 U	0.80	0.22	ug/l	
218-01-9	Chrysene	0.18 U	0.80	0.18	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.24 U	0.80	0.24	ug/l	
206-44-0	Fluoranthene	3.8	0.80	0.18	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.24 U	0.80	0.24	ug/l	
129-00-0	Pyrene	3.4	0.80	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	23% [a]		17-131%
321-60-8	2-Fluorobiphenyl	120% [a]		15-137%
1718-51-0	Terphenyl-d14	103% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	1840000	250000	6700	ug/l	50	10/13/09	10/19/09	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4345
(2) Prep QC Batch: MP10445

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW9:1009		
Lab Sample ID:	T39646-1	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.047	0.010	0.0040	mg/l	1	10/21/09 12:06	CV	EPA 335.4
Sulfate	3340	10	2.6	mg/l	1	10/26/09 11:00	MC	SM 4500 SO4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020769.D	5	10/14/09	AP	n/a	n/a	VF3602
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	61.7	250	24	ug/l	J
71-43-2	Benzene	528	10	2.5	ug/l	
67-66-3	Chloroform	3.2 U	10	3.2	ug/l	
75-15-0	Carbon disulfide	2.6 U	10	2.6	ug/l	
100-41-4	Ethylbenzene	19.2	10	2.7	ug/l	
74-95-3	Methylene bromide	3.2 U	10	3.2	ug/l	
75-09-2	Methylene chloride	6.8	25	2.0	ug/l	J
78-93-3	Methyl ethyl ketone	19 U	50	19	ug/l	
108-88-3	Toluene	225	10	2.2	ug/l	
1330-20-7	Xylene (total)	155	30	8.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	94%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13831.D	40	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2	J13848.D	800	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	52 U	400	52	ug/l	
105-67-9	2,4-Dimethylphenol	4870	200	51	ug/l	
95-48-7	2-Methylphenol	7110 [a]	4000	670	ug/l	
	3&4-Methylphenol	23400 [a]	4000	1300	ug/l	
108-95-2	Phenol	53900 [a]	4000	600	ug/l	
91-20-3	Naphthalene	4600	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	0% [b]	10-66%
4165-62-2	Phenol-d5	40%	0% [b]	10-53%
118-79-6	2,4,6-Tribromophenol	65%	0% [b]	32-128%
4165-60-0	Nitrobenzene-d5	61%	0% [b]	29-115%
321-60-8	2-Fluorobiphenyl	61%	0% [b]	34-113%
1718-51-0	Terphenyl-d14	81%	0% [b]	12-145%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
103495-51-8	Tricyclo[3.1.0.0(2,4)]hex-3-ene-3-	4.60	290	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.74	3500	ug/l	JN
576-26-1	Phenol, 2,6-dimethyl-	5.34	240	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.75	3100	ug/l	JN
526-75-0	Phenol, 2,3-dimethyl-	5.80	270	ug/l	JN
514-95-4	1,5,5-Trimethyl-6-methylene-cycloh	6.37	190	ug/l	JN
99-04-7	Benzoic acid, 3-methyl-	6.46	200	ug/l	JN
119-65-3	Isoquinoline	6.54	220	ug/l	JN
27587-17-3	1,4-Benzenedicarboxaldehyde, 2-met	7.74	300	ug/l	JN
1463-17-8	2,8-Dimethylquinoline	7.83	420	ug/l	JN
1198-37-4	Quinoline, 2,4-dimethyl-	8.04	220	ug/l	JN
1000129-53-5	2,3-Dihydroindole-2-one	8.30	280	ug/l	JN
90-15-3	1-Naphthalenol	8.61	450	ug/l	JN
2243-53-0	3-Butenoic acid, 4-phenyl-	9.03	230	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
2217-43-8	2-Naphthalenamine, 5,6,7,8-tetrahy	9.14	880	ug/l	JN
244-99-5	5H-Indeno[1,2-b]pyridine	9.86	230	ug/l	JN
635-46-1	Quinoline, 1,2,3,4-tetrahydro-	10.11	240	ug/l	JN
491-30-5	1(2H)-Isoquinolinone	10.68	4000	ug/l	JN
2721-59-7	2(1H)-Quinolinone, 3-methyl-	11.03	320	ug/l	JN
	Total TIC, Semi-Volatile		12080	ug/l	J
	Total TIC, Semi-Volatile		3500	ug/l	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35595.D	10	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2 [a]	H35618.D	40	10/26/09	SC	10/14/09	OP13271	EH1921

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	73.1 [b]	8.0	1.7	ug/l	
208-96-8	Acenaphthylene	52.9	2.0	0.72	ug/l	
120-12-7	Anthracene	53.9	2.0	0.54	ug/l	
56-55-3	Benzo(a)anthracene	7.8	2.0	0.41	ug/l	
50-32-8	Benzo(a)pyrene	0.64 U	2.0	0.64	ug/l	
205-99-2	Benzo(b)fluoranthene	3.1	2.0	0.60	ug/l	
207-08-9	Benzo(k)fluoranthene	0.56 U	2.0	0.56	ug/l	
218-01-9	Chrysene	4.8	2.0	0.44	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.60 U	2.0	0.60	ug/l	
206-44-0	Fluoranthene	34.3	2.0	0.46	ug/l	
86-73-7	Fluorene	39.1 [b]	8.0	2.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.61 U	2.0	0.61	ug/l	
85-01-8	Phenanthrene	67.9 [b]	8.0	3.0	ug/l	
129-00-0	Pyrene	36.9	2.0	0.79	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	334% [c]	46% [d]	17-131%
321-60-8	2-Fluorobiphenyl	127% [d]	36% [d]	15-137%
1718-51-0	Terphenyl-d14	197% [c]	44% [d]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Result is from Run# 2
(c) Recovery was adjusted for 10x spiking.Outside control limits due to dilution.
(d) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Sodium	4990000	250000	6700	ug/l	50	10/13/09	10/19/09	NS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4345
(2) Prep QC Batch: MP10445

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW8:1009		
Lab Sample ID:	T39646-2	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.17	0.010	0.0040	mg/l	1	10/21/09 12:08	CV	EPA 335.4
Sulfate	4330	10	2.6	mg/l	1	10/26/09 11:00	MC	SM 4500 SO4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW32:1009		
Lab Sample ID:	T39646-3	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020721.D	1	10/13/09	AP	n/a	n/a	VF3599
Run #2	C0004007.D	100	10/14/09	AP	n/a	n/a	VC175

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	3220 [a]	200	50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	132	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	1270 [a]	200	43	ug/l	
1330-20-7	Xylene (total)	356 [a]	600	170	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	77%	103%	75-121%
2037-26-5	Toluene-D8	88%	95%	87-119%
460-00-4	4-Bromofluorobenzene	91%	78% [b]	80-133%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference. There were no target compounds associated with this surrogate.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW32:1009		
Lab Sample ID:	T39646-3	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13841.D	40	10/15/09	SC	10/14/09	OP13250	EJ635
Run #2	J13842.D	400	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	52 U	400	52	ug/l	
105-67-9	2,4-Dimethylphenol	4940	200	51	ug/l	
95-48-7	2-Methylphenol	3130	200	33	ug/l	
	3&4-Methylphenol	10100 [a]	2000	630	ug/l	
108-95-2	Phenol	15500 [a]	2000	300	ug/l	
91-20-3	Naphthalene	2630	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	0% [b]	10-66%
4165-62-2	Phenol-d5	34%	0% [b]	10-53%
118-79-6	2,4,6-Tribromophenol	33%	0% [b]	32-128%
4165-60-0	Nitrobenzene-d5	43%	0% [b]	29-115%
321-60-8	2-Fluorobiphenyl	42%	0% [b]	34-113%
1718-51-0	Terphenyl-d14	45%	0% [b]	12-145%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
108-88-3	Toluene	2.66	170	ug/l	JN
109-06-8	Pyridine, 2-methyl-	3.22	220	ug/l	JN
108-89-4	Pyridine, 4-methyl-	3.68	410	ug/l	JN
271-89-6	Benzofuran	4.60	420	ug/l	JN
576-26-1	Phenol, 2,6-dimethyl-	5.33	450	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.74	3000	ug/l	JN
526-75-0	Phenol, 2,3-dimethyl-	5.80	310	ug/l	JN
95-15-8	Benzo[b]thiophene	5.99	190	ug/l	JN
1000129-53-5	2,3-Dihydroindole-2-one	8.30	430	ug/l	JN
90-15-3	1-Naphthalenol	8.61	220	ug/l	JN
59-31-4	2(1H)-Quinolinone	10.43	570	ug/l	JN
	Total TIC, Semi-Volatile		6390	ug/l	J

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32:1009		
Lab Sample ID:	T39646-3	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q

(b) Outside control limits due to dilution.
(c) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW32:1009		
Lab Sample ID:	T39646-3	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35596.D	10	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	71.2	2.0	0.42	ug/l	
208-96-8	Acenaphthylene	9.1	2.0	0.72	ug/l	
120-12-7	Anthracene	8.3	2.0	0.54	ug/l	
56-55-3	Benzo(a)anthracene	0.41 U	2.0	0.41	ug/l	
50-32-8	Benzo(a)pyrene	0.64 U	2.0	0.64	ug/l	
205-99-2	Benzo(b)fluoranthene	0.60 U	2.0	0.60	ug/l	
207-08-9	Benzo(k)fluoranthene	0.56 U	2.0	0.56	ug/l	
218-01-9	Chrysene	0.44 U	2.0	0.44	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.60 U	2.0	0.60	ug/l	
206-44-0	Fluoranthene	10.3	2.0	0.46	ug/l	
86-73-7	Fluorene	11.4	2.0	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.61 U	2.0	0.61	ug/l	
85-01-8	Phenanthrene	36.5	2.0	0.75	ug/l	
129-00-0	Pyrene	5.3	2.0	0.79	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	52% [a]		17-131%
321-60-8	2-Fluorobiphenyl	127% [a]		15-137%
1718-51-0	Terphenyl-d14	156% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32:1009		
Lab Sample ID:	T39646-3	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.26	0.010	0.0040	mg/l	1	10/21/09 12:09	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW31:1009		
Lab Sample ID:	T39646-4	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020728.D	1	10/13/09	AP	n/a	n/a	VF3600
Run #2	F020786.D	10	10/15/09	AP	n/a	n/a	VF3603

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	667 [a]	20	5.0	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	522 [a]	20	5.5	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	114	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	343	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	89%	75-121%
2037-26-5	Toluene-D8	88%	96%	87-119%
460-00-4	4-Bromofluorobenzene	89%	90%	80-133%

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW31:1009		
Lab Sample ID:	T39646-4	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13849.D	1	10/15/09	SC	10/14/09	OP13250	EJ635
Run #2	J13832.D	40	10/14/09	SC	10/14/09	OP13250	EJ634

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	55.1	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	3.7	5.0	0.83	ug/l	J
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	5.9	5.0	0.75	ug/l	
83-32-9	Acenaphthene	219 [a]	200	62	ug/l	
208-96-8	Acenaphthylene	19.6	5.0	1.2	ug/l	
120-12-7	Anthracene	6.6	5.0	1.1	ug/l	
206-44-0	Fluoranthene	8.9	5.0	0.97	ug/l	
86-73-7	Fluorene	75.4	5.0	1.3	ug/l	
91-20-3	Naphthalene	274 [a]	200	45	ug/l	
85-01-8	Phenanthrene	31.6	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%	43%	10-66%
4165-62-2	Phenol-d5	33%	25%	10-53%
118-79-6	2,4,6-Tribromophenol	69%	49%	32-128%
4165-60-0	Nitrobenzene-d5	57%	59%	29-115%
321-60-8	2-Fluorobiphenyl	52%	55%	34-113%
1718-51-0	Terphenyl-d14	88%	74%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
108-88-3	Toluene	2.62	38	ug/l	JN
100-41-4	Ethylbenzene	3.54	330	ug/l	JN
106-42-3	p-Xylene	3.62	120	ug/l	JN
108-47-4	Pyridine, 2,4-dimethyl-	3.72	140	ug/l	JN
591-22-0	Pyridine, 3,5-dimethyl-	4.12	230	ug/l	JN
108-67-8	Benzene, 1,3,5-trimethyl-	4.40	23	ug/l	JN
108-47-4	Pyridine, 2,4-dimethyl-	4.46	20	ug/l	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.77	130	ug/l	JN

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31:1009		
Lab Sample ID:	T39646-4	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	4.88	630	ug/l	JN
106-49-0	p-Aminotoluene	5.11	91	ug/l	JN
108-44-1	Benzenamine, 3-methyl-	5.15	130	ug/l	JN
17059-52-8	Benzofuran, 7-methyl-	5.29	120	ug/l	JN
4265-25-2	Benzofuran, 2-methyl-	5.34	25	ug/l	JN
270-82-6	Benzo[c]thiophene	6.01	24	ug/l	JN
92-52-4	Biphenyl	7.45	48	ug/l	JN
581-42-0	Naphthalene, 2,6-dimethyl-	7.82	29	ug/l	JN
20294-32-0	6-Methyl-4-indanol	8.03	29	ug/l	JN
90-15-3	1-Naphthalenol	8.65	140	ug/l	JN
7469-77-4	1-Naphthalenol, 2-methyl-	9.61	42	ug/l	JN
2739-16-4	1(2H)-Quinolinecarboxaldehyde, 3,4	9.95	23	ug/l	JN
2243-83-6	2-Naphthalenecarbonyl chloride	10.45	51	ug/l	JN
2739-16-4	1(2H)-Quinolinecarboxaldehyde, 3,4	10.57	38	ug/l	JN
5541-68-4	8-Quinolinol, 7-methyl-	12.08	93	ug/l	JN
4630-20-0	3-Methylcarbazole	12.35	21	ug/l	JN
2443-58-5	2-Hydroxyfluorene	12.54	23	ug/l	JN
	Total TIC, Semi-Volatile		2588	ug/l	J

(a) Result is from Run# 2
(b) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW31:1009		
Lab Sample ID:	T39646-4	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35619.D	1	10/26/09	SC	10/14/09	OP13271	EH1921
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
129-00-0	Pyrene	8.3	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62% [a]		17-131%
321-60-8	2-Fluorobiphenyl	90% [a]		15-137%
1718-51-0	Terphenyl-d14	146% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW31:1009		
Lab Sample ID:	T39646-4	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 U	0.010	0.0040	mg/l	1	10/21/09 12:11	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T39646-5	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020732.D	1	10/14/09	AP	n/a	n/a	VF3600
Run #2	F020787.D	100	10/15/09	AP	n/a	n/a	VF3603

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	3280 [a]	200	50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	131	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	1330 [a]	200	43	ug/l	
1330-20-7	Xylene (total)	778 [a]	600	170	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	87%	75-121%
2037-26-5	Toluene-D8	90%	95%	87-119%
460-00-4	4-Bromofluorobenzene	92%	93%	80-133%

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T39646-5	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13840.D	40	10/15/09	SC	10/14/09	OP13250	EJ635
Run #2	J13843.D	400	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	52 U	400	52	ug/l	
105-67-9	2,4-Dimethylphenol	6460 [a]	2000	510	ug/l	
95-48-7	2-Methylphenol	4560 [a]	2000	330	ug/l	
	3&4-Methylphenol	11000 [a]	2000	630	ug/l	
108-95-2	Phenol	17800 [a]	2000	300	ug/l	
91-20-3	Naphthalene	4780	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%	0% [b]	10-66%
4165-62-2	Phenol-d5	51%	0% [b]	10-53%
118-79-6	2,4,6-Tribromophenol	52%	0% [b]	32-128%
4165-60-0	Nitrobenzene-d5	63%	0% [b]	29-115%
321-60-8	2-Fluorobiphenyl	60%	0% [b]	34-113%
1718-51-0	Terphenyl-d14	74%	0% [b]	12-145%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
108-88-3	Toluene	2.67	540	ug/l	JN
109-06-8	Pyridine, 2-methyl-	3.35	280	ug/l	JN
95-47-6	Benzene, 1,2-dimethyl-	3.64	250	ug/l	JN
109-06-8	Pyridine, 2-methyl-	3.82	880	ug/l	JN
271-89-6	Benzofuran	4.60	740	ug/l	JN
496-11-7	Indane	4.87	250	ug/l	JN
576-26-1	Phenol, 2,6-dimethyl-	5.34	650	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.76	4600	ug/l	JN
526-75-0	Phenol, 2,3-dimethyl-	5.81	480	ug/l	JN
1687-61-2	Phenol, 2-ethyl-5-methyl-	6.37	170	ug/l	JN
90-15-3	1-Naphthalenol	8.61	370	ug/l	JN
135-19-3	2-Naphthalenol	8.72	210	ug/l	JN
140-76-1	Pyridine, 5-ethenyl-2-methyl-	9.10	180	ug/l	JN
59-31-4	2(1H)-Quinolinone	10.49	940	ug/l	JN

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T39646-5	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		10540	ug/l	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T39646-5	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35598.D	10	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	82.7	2.0	0.42	ug/l	
208-96-8	Acenaphthylene	12.5	2.0	0.72	ug/l	
120-12-7	Anthracene	8.5	2.0	0.54	ug/l	
56-55-3	Benzo(a)anthracene	0.41 U	2.0	0.41	ug/l	
50-32-8	Benzo(a)pyrene	0.64 U	2.0	0.64	ug/l	
205-99-2	Benzo(b)fluoranthene	0.60 U	2.0	0.60	ug/l	
207-08-9	Benzo(k)fluoranthene	0.56 U	2.0	0.56	ug/l	
218-01-9	Chrysene	0.44 U	2.0	0.44	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.60 U	2.0	0.60	ug/l	
206-44-0	Fluoranthene	10.1	2.0	0.46	ug/l	
86-73-7	Fluorene	13.1	2.0	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.61 U	2.0	0.61	ug/l	
85-01-8	Phenanthrene	37.1	2.0	0.75	ug/l	
129-00-0	Pyrene	5.9	2.0	0.79	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	44% [a]		17-131%
321-60-8	2-Fluorobiphenyl	122% [a]		15-137%
1718-51-0	Terphenyl-d14	160% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T39646-5	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.37	0.010	0.0040	mg/l	1	10/21/09 12:11	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3:1009		
Lab Sample ID:	T39646-6	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020763.D	1	10/14/09	AP	n/a	n/a	VF3602
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	16.4	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	3.9	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	5.6	6.0	1.7	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	94%		87-119%
460-00-4	4-Bromofluorobenzene	86%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3:1009		
Lab Sample ID:	T39646-6	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13822.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2	J13850.D	5	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	
83-32-9	Acenaphthene	319 [a]	25	7.8	ug/l	
86-73-7	Fluorene	47.3 [a]	25	6.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	40%	10-66%
4165-62-2	Phenol-d5	37%	24%	10-53%
118-79-6	2,4,6-Tribromophenol	77%	54%	32-128%
4165-60-0	Nitrobenzene-d5	78%	63%	29-115%
321-60-8	2-Fluorobiphenyl	70%	55%	34-113%
1718-51-0	Terphenyl-d14	90%	75%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
95-15-8	Benzo[b]thiophene	5.98	7.8	ug/l	JN
4565-32-6	Benzo[b]thiophene, 2,3-dihydro-	6.45	16	ug/l	JN
632-46-2	Benzoic acid, 2,6-dimethyl-	7.10	4.2	ug/l	JN
1855-47-6	1-Isopropenylnaphthalene	8.64	9	ug/l	JN
2687-12-9	Benzene, (3-chloro-1-propenyl)-	8.97	6.6	ug/l	JN
1855-47-6	1-Isopropenylnaphthalene	9.44	6.6	ug/l	JN
2523-37-7	9H-Fluorene, 9-methyl-	9.50	6.7	ug/l	JN
644-08-6	1,1'-Biphenyl, 4-methyl-	9.58	5.4	ug/l	JN
7320-53-8	Dibenzofuran, 4-methyl-	9.65	5.9	ug/l	JN
1000128-38-5	Acenaphthenone	10.03	7.1	ug/l	JN
613-31-0	Anthracene, 9,10-dihydro-	10.16	7.7	ug/l	JN
31706-76-0	1-Naphthol, 5,7-dimethyl-	10.55	4.2	ug/l	JN
86-77-1	2-Dibenzofuranol	10.97	6.4	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3:1009		
Lab Sample ID:	T39646-6	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
86-77-1	Dibenzofuranol	11.95	12	ug/l	JN
4630-20-0	3-Methylcarbazole	12.29	12	ug/l	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.39	6.6	ug/l	JN
2443-58-5	2-Hydroxyfluorene	12.43	9.9	ug/l	JN
321-64-2	9-Acridinamine, 1,2,3,4-tetrahydro	12.55	6.7	ug/l	JN
39515-51-0	Benzaldehyde, 3-phenoxy-	12.66	5.7	ug/l	JN
27323-29-1	Methylcarbazole	12.77	4.3	ug/l	JN
67-36-7	4-Phenoxybenzaldehyde	12.94	4.2	ug/l	JN
54852-71-0	2H-Pyrano[2,3-f]isoquinolin-2-one	14.65	11	ug/l	JN
4269-15-2	4-Amino-9-fluorenone	14.89	11	ug/l	JN
	Total TIC, Semi-Volatile		177	ug/l	J

(a) Result is from Run# 2
(b) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3:1009		
Lab Sample ID:	T39646-6	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H35620.D	1	10/26/09	SC	10/14/09	OP13271	EH1921
Run #2	H35599.D	4	10/23/09	SC	10/14/09	OP13271	EH1920

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	4.2	0.20	0.072	ug/l	
120-12-7	Anthracene	7.6	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	1.3	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.25	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	22.2 [b]	0.80	0.18	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	1.3	0.20	0.075	ug/l	
85-01-8	Phenanthrene	1.1	0.20	0.075	ug/l	
129-00-0	Pyrene	14.1 [b]	0.80	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	110% [c]	125% [c]	17-131%
321-60-8	2-Fluorobiphenyl	157% [d]	92% [c]	15-137%
1718-51-0	Terphenyl-d14	160% [c]	132% [c]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Result is from Run# 2
(c) Recovery was adjusted for 10x spiking.
(d) Recovery was adjusted for 10x spiking.Outside of control limits due to matrix interference.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3:1009		
Lab Sample ID:	T39646-6	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.012	0.010	0.0040	mg/l	1	10/21/09 12:06	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW1:1009		
Lab Sample ID:	T39646-7	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020768.D	1	10/14/09	AP	n/a	n/a	VF3602
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	79.2	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	125	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	7.1	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	51.6	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	91%		87-119%
460-00-4	4-Bromofluorobenzene	86%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW1:1009		
Lab Sample ID:	T39646-7	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13828.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2	J13851.D	4	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	3.0	5.0	1.3	ug/l	J
95-48-7	2-Methylphenol	2.1	5.0	0.83	ug/l	J
	3&4-Methylphenol	3.8	5.0	1.6	ug/l	J
108-95-2	Phenol	5.6	5.0	0.75	ug/l	
83-32-9	Acenaphthene	141 [a]	20	6.2	ug/l	
208-96-8	Acenaphthylene	16.0	5.0	1.2	ug/l	
206-44-0	Fluoranthene	7.4	5.0	0.97	ug/l	
86-73-7	Fluorene	35.9	5.0	1.3	ug/l	
86-73-7	Fluorene	34.7 [a]	20	5.4	ug/l	
85-01-8	Phenanthrene	18.2	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	37%	10-66%
4165-62-2	Phenol-d5	37%	25%	10-53%
118-79-6	2,4,6-Tribromophenol	71%	52%	32-128%
4165-60-0	Nitrobenzene-d5	66%	54%	29-115%
321-60-8	2-Fluorobiphenyl	60%	47%	34-113%
1718-51-0	Terphenyl-d14	85%	63%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
100-41-4	Ethylbenzene	3.55	62	ug/l	JN
106-42-3	p-Xylene	3.63	7.4	ug/l	JN
95-47-6	Benzene, 1,2-dimethyl-	3.82	21	ug/l	JN
271-89-6	Benzofuran	4.60	46	ug/l	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.76	12	ug/l	JN
496-11-7	Indane	4.87	360	ug/l	JN
17059-52-8	Benzofuran, 7-methyl-	5.27	14	ug/l	JN
104-55-2	2-Propenal, 3-phenyl-	5.33	12	ug/l	JN
270-82-6	Benzo[c]thiophene	5.99	35	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW1:1009		
Lab Sample ID:	T39646-7	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
56631-57-3	1H-Indenol	6.11	17	ug/l	JN
6351-10-6	1H-Inden-1-ol, 2,3-dihydro-	6.23	39	ug/l	JN
4565-32-6	Benzo[b]thiophene, 2,3-dihydro-	6.46	73	ug/l	JN
83-33-0	1H-Inden-1-one, 2,3-dihydro-	6.63	20	ug/l	JN
528-90-5	Benzoic acid, 2,4,5-trimethyl-	9.62	19	ug/l	JN
494-99-5	3,4-Dimethoxytoluene	9.69	9.7	ug/l	JN
1000128-38-5	Acenaphthenone	10.04	17	ug/l	JN
6306-07-6	1-Acenaphthenol	10.07	24	ug/l	JN
86-55-5	1-Naphthalenecarboxylic acid	10.28	8.1	ug/l	JN
53774-19-9	3-Pentenoic acid, 4-phenyl-	10.32	10	ug/l	JN
6314-28-9	Thianaphthene-2-carboxylic acid	10.55	11	ug/l	JN
86-77-1	2-Dibenzofuranol	10.98	11	ug/l	JN
86-77-1	Dibenzofuranol	11.96	18	ug/l	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.39	7.5	ug/l	JN
1000147-49-2	2-Amino-as-triazino(6,5-c)-quinoli	14.66	8.5	ug/l	JN
1015-89-0	6(5H)-Phenanthridinone	14.88	10	ug/l	JN
	Total TIC, Semi-Volatile		872.2	ug/l	J

(a) Result is from Run# 2
(b) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW1:1009		
Lab Sample ID:	T39646-7	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35588.D	1	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
120-12-7	Anthracene	8.8	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.84	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.42	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.38	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.12	0.20	0.056	ug/l	J
218-01-9	Chrysene	0.31	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.18	0.20	0.061	ug/l	J
91-20-3	Naphthalene	9.4	0.20	0.075	ug/l	
129-00-0	Pyrene	8.6	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68% [a]		17-131%
321-60-8	2-Fluorobiphenyl	100% [a]		15-137%
1718-51-0	Terphenyl-d14	97% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW1:1009		
Lab Sample ID:	T39646-7	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.032	0.010	0.0040	mg/l	1	10/21/09 12:16	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW3:1009		
Lab Sample ID:	T39646-8	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020735.D	1	10/14/09	AP	n/a	n/a	VF3600
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50	2.0	0.50	ug/l	J
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.59	2.0	0.55	ug/l	J
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	81%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW3:1009		
Lab Sample ID:	T39646-8	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13823.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.9	5.0	1.3	ug/l	J
95-48-7	2-Methylphenol	2.2	5.0	0.83	ug/l	J
	3&4-Methylphenol	4.2	5.0	1.6	ug/l	J
108-95-2	Phenol	10.8	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-66%
4165-62-2	Phenol-d5	32%		10-53%
118-79-6	2,4,6-Tribromophenol	66%		32-128%
4165-60-0	Nitrobenzene-d5	70%		29-115%
321-60-8	2-Fluorobiphenyl	64%		34-113%
1718-51-0	Terphenyl-d14	78%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	12.51	4.8	ug/l	JN
	Total TIC, Semi-Volatile		4.8	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TW3:1009		
Lab Sample ID:	T39646-8	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35589.D	1	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.59	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.37	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.37	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.51	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.41	0.20	0.056	ug/l	
218-01-9	Chrysene	0.32	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.75	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	2.6	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.21	0.20	0.075	ug/l	
129-00-0	Pyrene	0.61	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70% [a]		17-131%
321-60-8	2-Fluorobiphenyl	70% [a]		15-137%
1718-51-0	Terphenyl-d14	101% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW3:1009		
Lab Sample ID:	T39646-8	**Date Sampled:**	10/08/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0083 B	0.010	0.0040	mg/l	1	10/21/09 12:16	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5:1009		
Lab Sample ID:	T39646-9	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020736.D	1	10/14/09	AP	n/a	n/a	VF3600
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	2.9	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	3.7	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	1.7	2.0	0.43	ug/l	J
1330-20-7	Xylene (total)	2.4	6.0	1.7	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	82%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5:1009		
Lab Sample ID:	T39646-9	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13826.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2	J13852.D	5	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	10.3	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	1.6	5.0	0.83	ug/l	J
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	
83-32-9	Acenaphthene	110 [a]	25	7.8	ug/l	
206-44-0	Fluoranthene	12.8	5.0	0.97	ug/l	
86-73-7	Fluorene	45.8	5.0	1.3	ug/l	
86-73-7	Fluorene	36.9 [a]	25	6.7	ug/l	
85-01-8	Phenanthrene	11.5	5.0	0.97	ug/l	
129-00-0	Pyrene	8.6	5.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	33%	10-66%
4165-62-2	Phenol-d5	27%	21%	10-53%
118-79-6	2,4,6-Tribromophenol	66%	43%	32-128%
4165-60-0	Nitrobenzene-d5	60%	51%	29-115%
321-60-8	2-Fluorobiphenyl	56%	49%	34-113%
1718-51-0	Terphenyl-d14	76%	67%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
576-26-1	Phenol, 2,6-dimethyl-	5.33	6.2	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.73	8.1	ug/l	JN
95-15-8	Benzo[b]thiophene	5.98	9.2	ug/l	JN
92-52-4	Biphenyl	7.44	6.3	ug/l	JN
571-58-4	Naphthalene, 1,4-dimethyl-	7.81	6.1	ug/l	JN
575-43-9	Naphthalene, 1,6-dimethyl-	8.00	5	ug/l	JN
2320-32-3	Benzene, [1-(2,4-cyclopentadien-1-	8.64	6.5	ug/l	JN
1000128-38-5	Acenaphthenone	10.03	8.5	ug/l	JN
613-31-0	Anthracene, 9,10-dihydro-	10.16	7.2	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5:1009		
Lab Sample ID:	T39646-9	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
1430-97-3	9H-Fluorene, 2-methyl-	10.39	5.8	ug/l	JN
86-77-1	2-Dibenzofuranol	11.94	5.9	ug/l	JN
4630-20-0	3-Methylcarbazole	12.28	4.5	ug/l	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.38	7.2	ug/l	JN
1015-89-0	6(5H)-Phenanthridinone	14.83	5.5	ug/l	JN
	Total TIC, Semi-Volatile		92	ug/l	J

(a) Result is from Run# 2
(b) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5:1009		
Lab Sample ID:	T39646-9	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H35590.D	1	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2	H35626.D	10	10/26/09	SC	10/14/09	OP13271	EH1921

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	2.0	0.20	0.072	ug/l	
120-12-7	Anthracene	4.6	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.86	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.21	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	2.7	0.20	0.075	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62% [b]	126% [b]	17-131%
321-60-8	2-Fluorobiphenyl	93% [b]	54% [b]	15-137%
1718-51-0	Terphenyl-d14	100% [b]	93% [b]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5:1009		
Lab Sample ID:	T39646-9	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0059 B	0.010	0.0040	mg/l	1	10/21/09 12:18	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW34:1009		
Lab Sample ID:	T39646-10	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020737.D	1	10/14/09	AP	n/a	n/a	VF3600
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	73.7	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	46.3	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	53.7	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	85.6	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	90%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW34:1009		
Lab Sample ID:	T39646-10	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13829.D	10	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2	J13853.D	40	10/15/09	SC	10/14/09	OP13250	EJ635

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	13 U	100	13	ug/l	
105-67-9	2,4-Dimethylphenol	1980 [a]	200	51	ug/l	
95-48-7	2-Methylphenol	109	50	8.3	ug/l	
	3&4-Methylphenol	24.1	50	16	ug/l	J
108-95-2	Phenol	7.5 U	50	7.5	ug/l	
83-32-9	Acenaphthene	50.8	50	16	ug/l	
91-20-3	Naphthalene	796	50	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%	0% [b]	10-66%
4165-62-2	Phenol-d5	16%	0% [b]	10-53%
118-79-6	2,4,6-Tribromophenol	66%	0% [b]	32-128%
4165-60-0	Nitrobenzene-d5	32%	0% [b]	29-115%
321-60-8	2-Fluorobiphenyl	41%	0% [b]	34-113%
1718-51-0	Terphenyl-d14	87%	0% [b]	12-145%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
271-89-6	Benzofuran	4.59	63	ug/l	JN
496-11-7	Indane	4.85	63	ug/l	JN
576-26-1	Phenol, 2,6-dimethyl-	5.33	74	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	5.75	800	ug/l	JN
526-75-0	Phenol, 2,3-dimethyl-	5.80	68	ug/l	JN
698-71-5	Phenol, 3-ethyl-5-methyl-	6.37	62	ug/l	JN
27587-17-3	1,4-Benzenedicarboxaldehyde, 2-met	7.62	59	ug/l	JN
26187-38-2	Pyrrole-2-carbonitrile, 5-formyl-3	7.73	87	ug/l	JN
90-15-3	1-Naphthalenol	8.60	130	ug/l	JN
135-19-3	2-Naphthalenol	8.70	170	ug/l	JN
4741-68-8	1(3H)-Isobenzofuranthione	8.82	54	ug/l	JN
2243-53-0	3-Butenoic acid, 4-phenyl-	8.98	110	ug/l	JN
28556-81-2	2,6-Dimethylphenyl isocyanate	9.28	160	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW34:1009		
Lab Sample ID:	T39646-10	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
7469-77-4	1-Naphthalenol, 2-methyl-	9.57	49	ug/l	JN
86-55-5	1-Naphthalenecarboxylic acid	10.22	220	ug/l	JN
93-09-4	2-Naphthalenecarboxylic acid	10.37	140	ug/l	JN
491-30-5	1(2H)-Isoquinolinone	10.51	250	ug/l	JN
2721-59-7	2(1H)-Quinolinone, 3-methyl-	10.84	42	ug/l	JN
	Total TIC, Semi-Volatile		2601	ug/l	J

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW34:1009		
Lab Sample ID:	T39646-10	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H35591.D	1	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2	H35593.D	4	10/23/09	SC	10/14/09	OP13271	EH1920

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	1.8	0.20	0.072	ug/l	
120-12-7	Anthracene	1.5	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.92	0.20	0.046	ug/l	
86-73-7	Fluorene	4.1 [b]	0.80	0.26	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
85-01-8	Phenanthrene	9.4 [b]	0.80	0.30	ug/l	
129-00-0	Pyrene	0.41	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	18% [c]	64% [c]	17-131%
321-60-8	2-Fluorobiphenyl	68% [c]	72% [c]	15-137%
1718-51-0	Terphenyl-d14	86% [c]	132% [c]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Result is from Run# 2
(c) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW34:1009		
Lab Sample ID:	T39646-10	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0042 B	0.010	0.0040	mg/l	1	10/21/09 12:19	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	T39646-11	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020738.D	1	10/14/09	AP	n/a	n/a	VF3600
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	2.8	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	3.6	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	1.6	2.0	0.43	ug/l	J
1330-20-7	Xylene (total)	2.3	6.0	1.7	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	85%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	T39646-11	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13827.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	8.9	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	1.3	5.0	0.83	ug/l	J
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	
83-32-9	Acenaphthene	119	5.0	1.6	ug/l	
206-44-0	Fluoranthene	14.0	5.0	0.97	ug/l	
86-73-7	Fluorene	41.8	5.0	1.3	ug/l	
85-01-8	Phenanthrene	11.7	5.0	0.97	ug/l	
129-00-0	Pyrene	10.3	5.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		10-66%
4165-62-2	Phenol-d5	22%		10-53%
118-79-6	2,4,6-Tribromophenol	71%		32-128%
4165-60-0	Nitrobenzene-d5	51%		29-115%
321-60-8	2-Fluorobiphenyl	47%		34-113%
1718-51-0	Terphenyl-d14	93%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
108-68-9	Phenol, 3,5-dimethyl-	5.33	5.5	ug/l	JN
95-65-8	Phenol, 3,4-dimethyl-	5.73	6.9	ug/l	JN
95-15-8	Benzo[b]thiophene	5.98	10	ug/l	JN
92-52-4	Biphenyl	7.44	5.4	ug/l	JN
571-61-9	Naphthalene, 1,5-dimethyl-	7.81	5.4	ug/l	JN
571-58-4	Naphthalene, 1,4-dimethyl-	8.00	4.4	ug/l	JN
613-46-7	2-Naphthalenecarbonitrile	8.48	4.1	ug/l	JN
2320-32-3	Benzene, [1-(2,4-cyclopentadien-1-	8.64	6.2	ug/l	JN
1000128-38-5	Acenaphthenone	10.03	8.7	ug/l	JN
613-31-0	Anthracene, 9,10-dihydro-	10.16	6.3	ug/l	JN

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	T39646-11	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

SW-846 8270C

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
1430-97-3	9H-Fluorene, 2-methyl-	10.39	5	ug/l	JN
491-30-5	1(2H)-Isoquinolinone	10.44	6.4	ug/l	JN
86-77-1	2-Dibenzofuranol	11.94	4.6	ug/l	JN
4630-20-0	3-Methylcarbazole	12.28	4.7	ug/l	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.38	7.6	ug/l	JN
1015-89-0	6(5H)-Phenanthridinone	14.84	5.9	ug/l	JN
	Total TIC, Semi-Volatile		97.1	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	T39646-11	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H35592.D	1	10/23/09	SC	10/14/09	OP13271	EH1920
Run #2	H35600.D	10	10/23/09	SC	10/14/09	OP13271	EH1920

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	1.8	0.20	0.072	ug/l	
120-12-7	Anthracene	5.3	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.85	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.16	0.20	0.060	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.29	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	3.5	0.20	0.075	ug/l	
129-00-0	Pyrene	9.0	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59% [b]	46% [b]	17-131%
321-60-8	2-Fluorobiphenyl	75% [b]	65% [b]	15-137%
1718-51-0	Terphenyl-d14	93% [b]	132% [b]	10-160%

(a) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.
(b) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	T39646-11	**Date Sampled:**	10/09/09
Matrix:	AQ - Ground Water	**Date Received:**	10/10/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0068 B	0.010	0.0040	mg/l	1	10/21/09 12:21	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T39646-12	**Date Sampled:**	10/08/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020706.D	1	10/13/09	AP	n/a	n/a	VF3599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	98%		75-121%
2037-26-5	Toluene-D8	87%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST Laboratories

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T39646

Client / Reporting Information

Company Name: ERM
Street Address: 102 West 500 South, Suite 650
City / State / Zip: Salt Lake City UT 84101
Project Contact / E-mail: Kevin Lundmark
Phone #: 801 595-8400
Fax #:
Sampler(s) Name(s): Kris Benson
Phone #:

Project Information

Project Name: Vertellus Provo
Street:
City / State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analyses

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

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZAN/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	Na2SO4	ENCORE	OTHER	Volatile/8260	SVOC and SIMPAH/8270	Sodium /6010	Cyanide	Sulfate						LAB USE ONLY
1	MW9:1009	10/8/09	10:45	KB	GW	8	3	1		1		3							X	X	X	X	X						
2	MW8:1009	10/8/09	11:50	KB	GW	8	3	1		1		3							X	X	X	X	X						
3	MW32:1009	10/8/09	13:05	KB	GW	6	3	1				2							X	X		X							
4	MW31:1009	10/8/09	14:30	KB	GW	6	3	1				2							X	X		X							
5	DUP	10/8/09		KB	GW	6	3	1				2							X	X		X							
6	MW3:1009	10/8/09	15:15	KB	GW	6	3	1				2							X	X		X							
7	TW1:1009	10/8/09	15:55	KB	GW	6	3	1				2							X	X		X							
8	TW3:1009	10/8/09	16:30	KB	GW	6	3	1				2							X	X		X							
9	MW5:1009	10/9/09	8:30	KB	GW	6	3	1				2							X	X		X							
10	MW34:1009	10/9/09	9:40	KB	GW	6	3	1				2							X	X		X							
11	DUP2	10/9/09		KB	GW	6	3	1				2							X	X		X							
12	Trip Blank																		X										

Turnaround Time (Business days)

- [xx] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [xx] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/9/09 15:00	1	2 Fed Ex	10/10/09 1215	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 2.6, 4.2

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T39646: Chain of Custody
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SAMPLE INSPECTION FORM

Accutest Job Number: T39646 Client: ERM Date/Time Received: 10/10/09 1215

# of Coolers Received: 2 Thermometer #: 12-1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 2.6 #2: 4.2 #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: ____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____

Number of 5035 kits? ____

Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: ____

INFORMATION AND SAMPLE LABELING VERIFIED BY: ____

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

SAMPLE RECEIPT LOG

JOB #: T39646 DATE/TIME RECEIVED: 10/10/09 1215

CLIENT: ERM INITIALS: PF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW9 : 1009	10/8/09 1045	W	LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P250	3		1 2 3 4 5 6 7 8	<2	>12
					"	4		PF 1 2 3 4 5 6 7 8	<2	>12
					P125	5		1 2 3 4 5 6 7 8	<2	>12
					40ml	6-8	VR	1 2 3 4 5 6 7 8	<2	>12
1	2	MW8 : 1009	1150		LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P250	3		1 2 3 4 5 6 7 8	<2	>12
					"	4		1 2 3 4 5 6 7 8	<2	>12
					P125	5		1 2 3 4 5 6 7 8	<2	>12
					40ml	6-8	VR	1 2 3 4 5 6 7 8	<2	>12
1	3	MW32 : 1009	1305		LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	4	MW 21 : 1009	1430		LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	5	Dup	—		LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	6	MW3 : 1009	1515		LAG	1-2	1 I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

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T39646: Chain of Custody

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ACCUTEST Laboratories

T39646

SAMPLE RECEIPT LOG

JOB #: T39646 DATE/TIME RECEIVED: 10/10/09 1215

CLIENT: ERM INITIALS: FF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	7	TW1 : 1009	10/8/09 1555	W	LAG	1-2	I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	8	TW3 : 1009	1650		LAG	1-2	I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	9	MW5 : 1009	10/9/09 830		LAG	1-2	I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	10	MW 34 : 1009	940		LAG	1-2	I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	11	Dup 2	10/9/09 —		LAG	1-2	I	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
	12	Trip Blank		WTB	"	1-2	VR	1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
			FF	10/10/09				1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

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T39646: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3599-MB	F020704.D	1	10/13/09	AP	n/a	n/a	VF3599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-1, T39646-3, T39646-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	87%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3600-MB	F020727.D	1	10/13/09	AP	n/a	n/a	VF3600

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	75-121%
2037-26-5	Toluene-D8	88%	87-119%
460-00-4	4-Bromofluorobenzene	86%	80-133%

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3602-MB	F020751.D	1	10/14/09	AP	n/a	n/a	VF3602

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-2, T39646-6, T39646-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	99%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC175-MB	C0003988.D	1	10/14/09	AP	n/a	n/a	VC175

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	79-122%
17060-07-0	1,2-Dichloroethane-D4	108%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	82%	80-133%

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3603-MB	F020779.D	1	10/15/09	AP	n/a	n/a	VF3603

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	86%	75-121%
2037-26-5	Toluene-D8	94%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

Blank Spike Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3599-BS	F020701.D	1	10/13/09	AP	n/a	n/a	VF3599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-1, T39646-3, T39646-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	148	118	62-124
71-43-2	Benzene	25	28.7	115	76-118
67-66-3	Chloroform	25	28.0	112	75-117
75-15-0	Carbon disulfide	25	27.7	111	57-126
100-41-4	Ethylbenzene	25	25.0	100	75-112
74-95-3	Methylene bromide	25	28.3	113	68-114
75-09-2	Methylene chloride	25	28.5	114* [a]	70-113
78-93-3	Methyl ethyl ketone	125	93.3	75	62-117
108-88-3	Toluene	25	25.7	103	77-114
1330-20-7	Xylene (total)	75	76.8	102	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%
2037-26-5	Toluene-D8	88%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3600-BS	F020725.D	1	10/13/09	AP	n/a	n/a	VF3600

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	108	86	62-124
71-43-2	Benzene	25	25.8	103	76-118
67-66-3	Chloroform	25	21.8	87	75-117
75-15-0	Carbon disulfide	25	24.8	99	57-126
100-41-4	Ethylbenzene	25	21.6	86	75-112
74-95-3	Methylene bromide	25	22.7	91	68-114
75-09-2	Methylene chloride	25	24.3	97	70-113
78-93-3	Methyl ethyl ketone	125	79.0	63	62-117
108-88-3	Toluene	25	23.3	93	77-114
1330-20-7	Xylene (total)	75	65.0	87	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	82%	75-121%
2037-26-5	Toluene-D8	90%	87-119%
460-00-4	4-Bromofluorobenzene	86%	80-133%

Blank Spike Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3602-BS	F020749.D	1	10/14/09	AP	n/a	n/a	VF3602

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-2, T39646-6, T39646-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	62-124
71-43-2	Benzene	25	28.9	116	76-118
67-66-3	Chloroform	25	27.0	108	75-117
75-15-0	Carbon disulfide	25	28.5	114	57-126
100-41-4	Ethylbenzene	25	24.2	97	75-112
74-95-3	Methylene bromide	25	26.5	106	68-114
75-09-2	Methylene chloride	25	27.2	109	70-113
78-93-3	Methyl ethyl ketone	125	89.7	72	62-117
108-88-3	Toluene	25	25.5	102	77-114
1330-20-7	Xylene (total)	75	73.8	98	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	75-121%
2037-26-5	Toluene-D8	92%	87-119%
460-00-4	4-Bromofluorobenzene	87%	80-133%

Blank Spike Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC175-BS	C0003986.D	1	10/14/09	AP	n/a	n/a	VC175

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.1	104	76-118
108-88-3	Toluene	25	22.2	89	77-114
1330-20-7	Xylene (total)	75	63.9	85	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Blank Spike Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3603-BS	F020777.D	1	10/15/09	AP	n/a	n/a	VF3603

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.0	104	76-118
100-41-4	Ethylbenzene	25	24.7	99	75-112
108-88-3	Toluene	25	25.4	102	77-114
1330-20-7	Xylene (total)	75	73.7	98	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	75-121%
2037-26-5	Toluene-D8	92%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39513-1MS	F020708.D	1	10/13/09	AP	n/a	n/a	VF3599
T39513-1MSD	F020709.D	1	10/13/09	AP	n/a	n/a	VF3599
T39513-1	F020707.D	1	10/13/09	AP	n/a	n/a	VF3599

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-1, T39646-3, T39646-12

CAS No.	Compound	T39513-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	238	190*	228	182*	4	62-124/21
71-43-2	Benzene	10.9		25	38.3	110	37.5	106	2	76-118/16
67-66-3	Chloroform	2.0 U		25	28.6	114	27.7	111	3	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	27.0	108	26.4	106	2	57-126/13
100-41-4	Ethylbenzene	3.5		25	26.6	92	26.3	91	1	75-112/12
74-95-3	Methylene bromide	2.0 U		25	30.4	122*	30.9	124*	2	68-114/13
75-09-2	Methylene chloride	5.0 U		25	27.1	108	26.9	108	1	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	121	97	118	94	3	62-117/21
108-88-3	Toluene	2.0 U		25	25.4	102	24.9	100	2	77-114/12
1330-20-7	Xylene (total)	6.0 U		75	72.9	97	70.6	94	3	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39513-1	Limits
1868-53-7	Dibromofluoromethane	99%	99%	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	102%	101%	75-121%
2037-26-5	Toluene-D8	87%	85%*	87%	87-119%
460-00-4	4-Bromofluorobenzene	89%	87%	91%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39646-4MS	F020729.D	1	10/14/09	AP	n/a	n/a	VF3600
T39646-4MSD	F020730.D	1	10/14/09	AP	n/a	n/a	VF3600
T39646-4	F020728.D	1	10/13/09	AP	n/a	n/a	VF3600

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	T39646-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	123	98	132	106	7	62-124/21
71-43-2	Benzene	764	E	25	773	36* [a]	767	12* [a]	1	76-118/16
67-66-3	Chloroform	2.0 U		25	26.0	104	25.8	103	1	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	29.6	118	29.3	117	1	57-126/13
100-41-4	Ethylbenzene	515	E	25	534	76	526	44* [a]	2	75-112/12
74-95-3	Methylene bromide	2.0 U		25	25.9	104	27.2	109	5	68-114/13
75-09-2	Methylene chloride	5.0 U		25	27.8	111	27.7	111	0	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	92.6	74	96.7	77	4	62-117/21
108-88-3	Toluene	114		25	145	124* [a]	143	116* [a]	1	77-114/12
1330-20-7	Xylene (total)	343		75	417	99	408	87	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39646-4	Limits
1868-53-7	Dibromofluoromethane	94%	93%	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	79%	81%	88%	75-121%
2037-26-5	Toluene-D8	91%	90%	88%	87-119%
460-00-4	4-Bromofluorobenzene	92%	89%	89%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39308-1MS	C0003991.D	1	10/14/09	AP	n/a	n/a	VC175
T39308-1MSD	C0003992.D	1	10/14/09	AP	n/a	n/a	VC175
T39308-1	C0003990.D	1	10/14/09	AP	n/a	n/a	VC175
T39308-1	C0003998.D	5	10/14/09	AP	n/a	n/a	VC175

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-3

CAS No.	Compound	T39308-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2.0	U	25	27.3	109	25.5	102	7	76-118/16
108-88-3	Toluene	2.0	U	25	22.1	88	21.3	85	4	77-114/12
1330-20-7	Xylene (total)	6.0	U	75	62.7	84	60.8	81	3	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39308-1	T39308-1	Limits
1868-53-7	Dibromofluoromethane	104%	102%	111%	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	104%	108%	108%	75-121%
2037-26-5	Toluene-D8	98%	98%	99%	97%	87-119%
460-00-4	4-Bromofluorobenzene	85%	86%	80%	81%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39646-6MS	F020764.D	1	10/14/09	AP	n/a	n/a	VF3602
T39646-6MSD	F020765.D	1	10/14/09	AP	n/a	n/a	VF3602
T39646-6	F020763.D	1	10/14/09	AP	n/a	n/a	VF3602

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-2, T39646-6, T39646-7

CAS No.	Compound	T39646-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	120	96	115	92	4	62-124/21
71-43-2	Benzene	16.4		25	42.8	106	42.2	103	1	76-118/16
67-66-3	Chloroform	2.0 U		25	24.8	99	23.8	95	4	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	25.4	102	24.9	100	2	57-126/13
100-41-4	Ethylbenzene	3.9		25	25.3	86	25.1	85	1	75-112/12
74-95-3	Methylene bromide	2.0 U		25	25.6	102	24.0	96	6	68-114/13
75-09-2	Methylene chloride	5.0 U		25	23.6	94	23.3	93	1	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	82.6	66	77.4	62	6	62-117/21
108-88-3	Toluene	2.0 U		25	22.8	91	23.4	94	3	77-114/12
1330-20-7	Xylene (total)	5.6	J	75	66.4	81	67.7	83	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39646-6	Limits
1868-53-7	Dibromofluoromethane	103%	100%	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	98%	101%	75-121%
2037-26-5	Toluene-D8	92%	93%	94%	87-119%
460-00-4	4-Bromofluorobenzene	85%	86%	86%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39537-1MS	F020789.D	1	10/15/09	AP	n/a	n/a	VF3603
T39537-1MSD	F020790.D	1	10/15/09	AP	n/a	n/a	VF3603
T39537-1	F020788.D	1	10/15/09	AP	n/a	n/a	VF3603

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39646-4, T39646-5

CAS No.	Compound	T39537-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2.0	U	25	24.2	97	23.9	96	1	76-118/16
100-41-4	Ethylbenzene	2.0	U	25	22.3	89	22.2	89	0	75-112/12
108-88-3	Toluene	2.0	U	25	23.6	94	24.0	96	2	77-114/12
1330-20-7	Xylene (total)	6.0	U	75	67.0	89	68.1	91	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39537-1	Limits
1868-53-7	Dibromofluoromethane	91%	89%	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	91%	88%	88%	75-121%
2037-26-5	Toluene-D8	94%	96%	95%	87-119%
460-00-4	4-Bromofluorobenzene	92%	91%	91%	80-133%

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-BFB
Lab File ID: C0003814.D
Instrument ID: GCMSC
Injection Date: 10/08/09
Injection Time: 09:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4297	15.6		Pass
75	30.0 - 60.0% of mass 95	12131	44.0		Pass
95	Base peak, 100% relative abundance	27563	100.0		Pass
96	5.0 - 9.0% of mass 95	1963	7.1		Pass
173	Less than 2.0% of mass 174	66	0.24	(0.26) [a]	Pass
174	50.0 - 100.0% of mass 95	25283	91.7		Pass
175	5.0 - 9.0% of mass 174	1899	6.9	(7.5) [a]	Pass
176	95.0 - 101.0% of mass 174	24446	88.7	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	1712	6.2	(7.0) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC168-IC168	C0003815.D	10/08/09	09:33	00:32	Initial cal 1
VC168-IC168	C0003816.D	10/08/09	10:01	01:00	Initial cal 2
VC168-IC168	C0003817.D	10/08/09	10:30	01:29	Initial cal 5
VC168-IC168	C0003818.D	10/08/09	10:58	01:57	Initial cal 20
VC168-ICC168	C0003819.D	10/08/09	11:26	02:25	Initial cal 40
VC168-IC168	C0003820.D	10/08/09	11:55	02:54	Initial cal 100
VC168-IC168	C0003821.D	10/08/09	12:23	03:22	Initial cal 200
VC168-ICV168	C0003823.D	10/08/09	13:20	04:19	Initial cal verification 40
VC168-BS	C0003825.D	10/08/09	14:17	05:16	Blank Spike
VC168-MB	C0003827.D	10/08/09	15:14	06:13	Method Blank
ZZZZZZ	C0003828.D	10/08/09	15:42	06:41	(unrelated sample)
T39208-8	C0003831.D	10/08/09	17:08	08:07	(used for QC only; not part of job T39646)
T39208-8MS	C0003832.D	10/08/09	17:36	08:35	Matrix Spike
T39208-8MSD	C0003833.D	10/08/09	18:05	09:04	Matrix Spike Duplicate
ZZZZZZ	C0003835.D	10/08/09	19:01	10:00	(unrelated sample)
ZZZZZZ	C0003836.D	10/08/09	19:30	10:29	(unrelated sample)
ZZZZZZ	C0003837.D	10/08/09	19:59	10:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC176-BFB
Lab File ID: C0003983.D
Instrument ID: GCMSC
Injection Date: 10/14/09
Injection Time: 10:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2480	21.5		Pass
75	30.0 - 60.0% of mass 95	6458	55.9		Pass
95	Base peak, 100% relative abundance	11547	100.0		Pass
96	5.0 - 9.0% of mass 95	857	7.4		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	11342	98.2		Pass
175	5.0 - 9.0% of mass 174	758	6.6	(6.7) [a]	Pass
176	95.0 - 101.0% of mass 174	11126	96.4	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	752	6.5	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC175-CC168	C0003985.D	10/14/09	11:19	01:10	Continuing cal 40
VC175-BS	C0003986.D	10/14/09	11:57	01:48	Blank Spike
VC175-MB	C0003988.D	10/14/09	12:56	02:47	Method Blank
ZZZZZZ	C0003989.D	10/14/09	13:24	03:15	(unrelated sample)
T39308-1	C0003990.D	10/14/09	13:53	03:44	(used for QC only; not part of job T39646)
T39308-1MS	C0003991.D	10/14/09	14:21	04:12	Matrix Spike
T39308-1MSD	C0003992.D	10/14/09	14:50	04:41	Matrix Spike Duplicate
ZZZZZZ	C0003994.D	10/14/09	15:47	05:38	(unrelated sample)
ZZZZZZ	C0003995.D	10/14/09	16:16	06:07	(unrelated sample)
ZZZZZZ	C0003996.D	10/14/09	16:44	06:35	(unrelated sample)
T39308-1	C0003998.D	10/14/09	17:40	07:31	(used for QC only; not part of job T39646)
ZZZZZZ	C0003999.D	10/14/09	18:09	08:00	(unrelated sample)
ZZZZZZ	C0004000.D	10/14/09	18:37	08:28	(unrelated sample)
ZZZZZZ	C0004001.D	10/14/09	19:05	08:56	(unrelated sample)
ZZZZZZ	C0004002.D	10/14/09	19:34	09:25	(unrelated sample)
ZZZZZZ	C0004003.D	10/14/09	20:02	09:53	(unrelated sample)
ZZZZZZ	C0004004.D	10/14/09	20:31	10:22	(unrelated sample)
ZZZZZZ	C0004005.D	10/14/09	20:59	10:50	(unrelated sample)
ZZZZZZ	C0004006.D	10/14/09	21:28	11:19	(unrelated sample)
T39646-3	C0004007.D	10/14/09	21:56	11:47	MW32:1009

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-BFB
Lab File ID: F019681.D
Instrument ID: GCMSF
Injection Date: 09/14/09
Injection Time: 11:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27589	22.5		Pass
75	30.0 - 60.0% of mass 95	65813	53.6		Pass
95	Base peak, 100% relative abundance	122850	100.0		Pass
96	5.0 - 9.0% of mass 95	8327	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	101570	82.7		Pass
175	5.0 - 9.0% of mass 174	7649	6.2	(7.5) [a]	Pass
176	95.0 - 101.0% of mass 174	98674	80.3	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	6644	5.4	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3547-IC3547	F019682.D	09/14/09	12:31	00:33	Initial cal 1
VF3548-IC3547	F019682.D	09/14/09	12:31	00:33	Initial cal 1
VF3547-IC3547	F019683.D	09/14/09	13:01	01:03	Initial cal 2
VF3548-IC3547	F019683.D	09/14/09	13:01	01:03	Initial cal 2
VF3547-IC3547	F019684.D	09/14/09	13:31	01:33	Initial cal 5
VF3548-IC3547	F019684.D	09/14/09	13:31	01:33	Initial cal 5
VF3547-IC3547	F019685.D	09/14/09	14:01	02:03	Initial cal 20
VF3548-IC3547	F019685.D	09/14/09	14:01	02:03	Initial cal 20
VF3547-ICC3547	F019686.D	09/14/09	14:31	02:33	Initial cal 40
VF3548-ICC3547	F019686.D	09/14/09	14:31	02:33	Initial cal 40
VF3548-IC3547	F019687.D	09/14/09	15:01	03:03	Initial cal 100
VF3547-IC3547	F019687.D	09/14/09	15:01	03:03	Initial cal 100
VF3547-IC3547	F019688.D	09/14/09	15:31	03:33	Initial cal 200
VF3548-IC3547	F019688.D	09/14/09	15:31	03:33	Initial cal 200
VF3547-ICV3547	F019690.D	09/14/09	16:31	04:33	Initial cal verification 40
VF3548-ICV3547	F019690.D	09/14/09	16:31	04:33	Initial cal verification 40
VF3548-BS	F019692.D	09/14/09	17:31	05:33	Blank Spike
VF3548-MB	F019694.D	09/14/09	18:31	06:33	Method Blank
T37033-1	F019703.D	09/14/09	23:02	11:04	(used for QC only; not part of job T39646)
T37033-1MS	F019704.D	09/14/09	23:32	11:34	Matrix Spike
T37033-1MSD	F019705.D	09/15/09	00:02	12:04	Matrix Spike Duplicate
ZZZZZZ	F019707.D	09/15/09	01:01	13:03	(unrelated sample)
ZZZZZZ	F019708.D	09/15/09	01:31	13:33	(unrelated sample)
ZZZZZZ	F019709.D	09/15/09	02:02	14:04	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-BFB
Lab File ID: F019681.D
Instrument ID: GCMSF
Injection Date: 09/14/09
Injection Time: 11:58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F019710.D	09/15/09	02:32	14:34	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3599-BFB
Lab File ID: F020699.D
Instrument ID: GCMSF
Injection Date: 10/13/09
Injection Time: 08:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6122	21.4		Pass
75	30.0 - 60.0% of mass 95	14835	51.9		Pass
95	Base peak, 100% relative abundance	28568	100.0		Pass
96	5.0 - 9.0% of mass 95	1854	6.5		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	23032	80.6		Pass
175	5.0 - 9.0% of mass 174	1882	6.6	(8.2) [a]	Pass
176	95.0 - 101.0% of mass 174	22733	79.6	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	1490	5.2	(6.6) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3599-CC3547	F020700.D	10/13/09	09:31	00:35	Continuing cal 20
VF3599-BS	F020701.D	10/13/09	10:07	01:11	Blank Spike
VF3599-MB	F020704.D	10/13/09	11:41	02:45	Method Blank
ZZZZZZ	F020705.D	10/13/09	12:11	03:15	(unrelated sample)
T39646-12	F020706.D	10/13/09	12:41	03:45	TRIP BLANK
T39513-1	F020707.D	10/13/09	13:11	04:15	(used for QC only; not part of job T39646)
T39513-1MS	F020708.D	10/13/09	13:41	04:45	Matrix Spike
T39513-1MSD	F020709.D	10/13/09	14:11	05:15	Matrix Spike Duplicate
ZZZZZZ	F020711.D	10/13/09	15:11	06:15	(unrelated sample)
ZZZZZZ	F020712.D	10/13/09	15:41	06:45	(unrelated sample)
ZZZZZZ	F020713.D	10/13/09	16:11	07:15	(unrelated sample)
ZZZZZZ	F020714.D	10/13/09	16:41	07:45	(unrelated sample)
ZZZZZZ	F020716.D	10/13/09	17:41	08:45	(unrelated sample)
ZZZZZZ	F020717.D	10/13/09	18:11	09:15	(unrelated sample)
T39646-1	F020719.D	10/13/09	19:12	10:16	MW9:1009
T39646-3	F020721.D	10/13/09	20:13	11:17	MW32:1009

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3600-BFB
Lab File ID: F020723.D
Instrument ID: GCMSF
Injection Date: 10/13/09
Injection Time: 21:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6726	20.6		Pass
75	30.0 - 60.0% of mass 95	16460	50.4		Pass
95	Base peak, 100% relative abundance	32634	100.0		Pass
96	5.0 - 9.0% of mass 95	2538	7.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	27205	83.4		Pass
175	5.0 - 9.0% of mass 174	1838	5.6	(6.8) [a]	Pass
176	95.0 - 101.0% of mass 174	25922	79.4	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	1962	6.0	(7.6) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3600-CC3547	F020724.D	10/13/09	21:43	00:30	Continuing cal 40
VF3600-BS	F020725.D	10/13/09	22:13	01:00	Blank Spike
VF3600-MB	F020727.D	10/13/09	23:14	02:01	Method Blank
T39646-4	F020728.D	10/13/09	23:43	02:30	MW31:1009
T39646-4MS	F020729.D	10/14/09	00:13	03:00	Matrix Spike
T39646-4MSD	F020730.D	10/14/09	00:43	03:30	Matrix Spike Duplicate
T39646-5	F020732.D	10/14/09	01:43	04:30	DUP
T39646-8	F020735.D	10/14/09	03:14	06:01	TW3:1009
T39646-9	F020736.D	10/14/09	03:43	06:30	MW5:1009
T39646-10	F020737.D	10/14/09	04:14	07:01	MW34:1009
T39646-11	F020738.D	10/14/09	04:44	07:31	DUP2
ZZZZZZ	F020740.D	10/14/09	05:44	08:31	(unrelated sample)
ZZZZZZ	F020741.D	10/14/09	06:14	09:01	(unrelated sample)
ZZZZZZ	F020742.D	10/14/09	06:44	09:31	(unrelated sample)
ZZZZZZ	F020743.D	10/14/09	07:14	10:01	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3601-BFB
Lab File ID: F020746.D
Instrument ID: GCMSF
Injection Date: 10/14/09
Injection Time: 09:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	5947	23.6		Pass
75	30.0 - 60.0% of mass 95	13115	52.0		Pass
95	Base peak, 100% relative abundance	25245	100.0		Pass
96	5.0 - 9.0% of mass 95	1859	7.4		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	21533	85.3		Pass
175	5.0 - 9.0% of mass 174	1667	6.6	(7.7) [a]	Pass
176	95.0 - 101.0% of mass 174	20584	81.5	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	1403	5.6	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3602-CC3547	F020748.D	10/14/09	10:53	01:17	Continuing cal 40
VF3602-BS	F020749.D	10/14/09	11:27	01:51	Blank Spike
VF3602-MB	F020751.D	10/14/09	12:29	02:53	Method Blank
T39646-6	F020763.D	10/14/09	18:31	08:55	MW3:1009
T39646-6MS	F020764.D	10/14/09	19:01	09:25	Matrix Spike
T39646-6MSD	F020765.D	10/14/09	19:31	09:55	Matrix Spike Duplicate
ZZZZZZ	F020767.D	10/14/09	20:32	10:56	(unrelated sample)
T39646-7	F020768.D	10/14/09	21:02	11:26	TW1:1009
T39646-2	F020769.D	10/14/09	21:32	11:56	MW8:1009

Instrument Performance Check (BFB)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3603-BFB
Lab File ID: F020773.D
Instrument ID: GCMSF
Injection Date: 10/15/09
Injection Time: 08:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6261	20.1		Pass
75	30.0 - 60.0% of mass 95	15815	50.8		Pass
95	Base peak, 100% relative abundance	31130	100.0		Pass
96	5.0 - 9.0% of mass 95	2126	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	26370	84.7		Pass
175	5.0 - 9.0% of mass 174	2121	6.8	(8.0) [a]	Pass
176	95.0 - 101.0% of mass 174	25813	82.9	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	1691	5.4	(6.6) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3603-CC3547	F020774.D	10/15/09	09:36	00:40	Continuing cal 20
VF3603-BS	F020777.D	10/15/09	11:20	02:24	Blank Spike
VF3603-MB	F020779.D	10/15/09	12:21	03:25	Method Blank
ZZZZZZ	F020780.D	10/15/09	12:51	03:55	(unrelated sample)
ZZZZZZ	F020781.D	10/15/09	13:21	04:25	(unrelated sample)
ZZZZZZ	F020782.D	10/15/09	13:52	04:56	(unrelated sample)
ZZZZZZ	F020783.D	10/15/09	14:22	05:26	(unrelated sample)
ZZZZZZ	F020784.D	10/15/09	14:52	05:56	(unrelated sample)
ZZZZZZ	F020785.D	10/15/09	15:22	06:26	(unrelated sample)
T39646-4	F020786.D	10/15/09	15:52	06:56	MW31:1009
T39646-5	F020787.D	10/15/09	16:22	07:26	DUP
T39537-1	F020788.D	10/15/09	16:52	07:56	(used for QC only; not part of job T39646)
T39537-1MS	F020789.D	10/15/09	17:22	08:26	Matrix Spike
T39537-1MSD	F020790.D	10/15/09	17:52	08:56	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VC175-CC168	**Injection Date:**	10/14/09
Lab File ID:	C0003985.D	**Injection Time:**	11:19
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1255911	10.40	1120973	13.55	567369	15.95
Upper Limit [a]	2511822	10.90	2241946	14.05	1134738	16.45
Lower Limit [b]	627956	9.90	560487	13.05	283685	15.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VC175-BS	1279831	10.40	1123358	13.55	578064	15.95
VC176-BS	1279831	10.40	1123358	13.55	578064	15.95
VC175-MB	1114379	10.40	919773	13.55	423247	15.95
VC176-MB	1114379	10.40	919773	13.55	423247	15.95
ZZZZZZ	1084525	10.40	890984	13.55	411860	15.95
T39308-1	1098344	10.40	896469	13.55	428804	15.95
T39308-1MS	1231827	10.40	1102693	13.55	571645	15.95
T39308-1MSD	1256212	10.40	1107442	13.54	574627	15.95
ZZZZZZ	1115644	10.40	919326	13.55	435542	15.95
ZZZZZZ	1113947	10.40	918098	13.55	434600	15.95
ZZZZZZ	1102029	10.40	907361	13.55	435202	15.95
T39308-1	1063382	10.40	883355	13.55	412137	15.95
ZZZZZZ	1044574	10.40	881908	13.55	402984	15.95
ZZZZZZ	1168998	10.40	941929	13.55	417457	15.95
ZZZZZZ	1058291	10.40	898447	13.55	404449	15.95
ZZZZZZ	1036275	10.40	883792	13.55	398784	15.95
ZZZZZZ	1018122	10.40	864758	13.55	398644	15.95
ZZZZZZ	1132864	10.40	877090	13.55	538654	15.95
ZZZZZZ	1186439	10.40	923317	13.55	516256	15.95
ZZZZZZ	1226608	10.40	949701	13.55	477881	15.95
T39646-3	1200429	10.40	945582	13.55	509533	15.95
ZZZZZZ	1189182	10.40	974396	13.55	449665	15.95
T39771-1	1192025	10.40	925028	13.55	427255	15.95
T39771-1MS	1232369	10.40	1095865	13.55	572705	15.95
T39771-1MSD	1272221	10.40	1123067	13.55	576569	15.95

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VC176-CC168	**Injection Date:**	10/14/09
Lab File ID:	C0003985.D	**Injection Time:**	11:19
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1255911	10.40	1120973	13.55	567369	15.95
Upper Limit [a]	2511822	10.90	2241946	14.05	1134738	16.45
Lower Limit [b]	627956	9.90	560487	13.05	283685	15.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VC175-BS	1279831	10.40	1123358	13.55	578064	15.95
VC176-BS	1279831	10.40	1123358	13.55	578064	15.95
VC175-MB	1114379	10.40	919773	13.55	423247	15.95
VC176-MB	1114379	10.40	919773	13.55	423247	15.95
ZZZZZZ	1084525	10.40	890984	13.55	411860	15.95
T39308-1	1098344	10.40	896469	13.55	428804	15.95
T39308-1MS	1231827	10.40	1102693	13.55	571645	15.95
T39308-1MSD	1256212	10.40	1107442	13.54	574627	15.95
ZZZZZZ	1115644	10.40	919326	13.55	435542	15.95
ZZZZZZ	1113947	10.40	918098	13.55	434600	15.95
ZZZZZZ	1102029	10.40	907361	13.55	435202	15.95
T39308-1	1063382	10.40	883355	13.55	412137	15.95
ZZZZZZ	1044574	10.40	881908	13.55	402984	15.95
ZZZZZZ	1168998	10.40	941929	13.55	417457	15.95
ZZZZZZ	1058291	10.40	898447	13.55	404449	15.95
ZZZZZZ	1036275	10.40	883792	13.55	398784	15.95
ZZZZZZ	1018122	10.40	864758	13.55	398644	15.95
ZZZZZZ	1132864	10.40	877090	13.55	538654	15.95
ZZZZZZ	1186439	10.40	923317	13.55	516256	15.95
ZZZZZZ	1226608	10.40	949701	13.55	477881	15.95
T39646-3	1200429	10.40	945582	13.55	509533	15.95
ZZZZZZ	1189182	10.40	974396	13.55	449665	15.95
T39771-1	1192025	10.40	925028	13.55	427255	15.95
T39771-1MS	1232369	10.40	1095865	13.55	572705	15.95
T39771-1MSD	1272221	10.40	1123067	13.55	576569	15.95

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3599-CC3547	**Injection Date:**	10/13/09
Lab File ID:	F020700.D	**Injection Time:**	09:31
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	989173	10.62	744552	14.59	420199	17.78
Upper Limit [a]	1978346	11.12	1489104	15.09	840398	18.28
Lower Limit [b]	494587	10.12	372276	14.09	210100	17.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3599-BS	902378	10.62	712599	14.59	417986	17.77
VF3599-MB	870424	10.62	692754	14.58	391902	17.77
ZZZZZZ	906672	10.62	702935	14.58	394350	17.78
T39646-12	921085	10.62	732192	14.58	411701	17.77
T39513-1	901716	10.63	699614	14.59	389551	17.78
T39513-1MS	884608	10.62	710747	14.60	405839	17.77
T39513-1MSD	893096	10.62	718086	14.59	408402	17.78
ZZZZZZ	922594	10.63	719061	14.59	407732	17.78
ZZZZZZ	909863	10.62	708466	14.59	400880	17.78
ZZZZZZ	887946	10.63	725152	14.60	399142	17.79
ZZZZZZ	1280437	10.64	996217	14.60	547172	17.79
ZZZZZZ	1307320	10.63	1029110	14.60	558772	17.80
ZZZZZZ	1288277	10.63	1035076	14.61	526938	17.79
T39646-1	1375594	10.65	1077863	14.61	592428	17.80
T39646-3	1205197	10.64	961600	14.60	486462	17.80

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3600-CC3547	**Injection Date:**	10/13/09
Lab File ID:	F020724.D	**Injection Time:**	21:43
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1201415	10.64	938073	14.61	534163	17.80
Upper Limit [a]	2402830	11.14	1876146	15.11	1068326	18.30
Lower Limit [b]	600708	10.14	469037	14.11	267082	17.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3600-BS	1198533	10.63	908720	14.60	519221	17.79
VF3600-MB	1046924	10.63	833287	14.60	481378	17.79
T39646-4	951992	10.62	769859	14.60	432948	17.79
T39646-4MS	1183470	10.62	909212	14.59	483304	17.78
T39646-4MSD	1210965	10.62	947503	14.59	500717	17.79
T39646-5	1114098	10.63	899434	14.60	443652	17.79
T39646-8	1147662	10.63	895645	14.59	491168	17.78
T39646-9	1047547	10.63	842365	14.59	467979	17.78
T39646-10	1022428	10.62	817548	14.59	462055	17.78
T39646-11	1017168	10.62	805578	14.59	452215	17.78
ZZZZZZ	973074	10.63	799743	14.59	457273	17.78
ZZZZZZ	957908	10.62	758408	14.60	433489	17.79
ZZZZZZ	981868	10.64	772808	14.60	453821	17.79
ZZZZZZ	904961	10.62	747393	14.60	433084	17.78

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3601-CC3547	**Injection Date:**	10/14/09
Lab File ID:	F020748.D	**Injection Time:**	10:53
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	918691	10.62	752317	14.60	442378	17.79
Upper Limit [a]	1837382	11.12	1504634	15.10	884756	18.29
Lower Limit [b]	459346	10.12	376159	14.10	221189	17.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3601-BS	1027632	10.64	822607	14.60	479799	17.79
VF3602-BS	1027632	10.64	822607	14.60	479799	17.79
VF3602-MB	1033332	10.64	822597	14.60	460325	17.80
VF3601-MB	1033332	10.64	822597	14.60	460325	17.80
OP13245-LB	966112	10.63	770548	14.60	440801	17.79
T39643-1	962905	10.64	777194	14.61	446293	17.79
T39643-1MS	972713	10.64	783951	14.61	457861	17.80
T39643-1MSD	988472	10.65	795738	14.61	460923	17.80
ZZZZZZ	966491	10.64	779166	14.61	438514	17.80
ZZZZZZ	970038	10.64	771329	14.61	430723	17.81
ZZZZZZ	906321	10.64	724731	14.61	424499	17.80
ZZZZZZ	931238	10.64	741892	14.62	425747	17.80
ZZZZZZ	955364	10.65	751698	14.62	433391	17.81
ZZZZZZ	989343	10.65	772110	14.61	440271	17.80
T39646-6	904865	10.64	715250	14.61	411060	17.80
T39646-6MS	925486	10.64	767573	14.61	444834	17.80
T39646-6MSD	957713	10.64	757812	14.61	443125	17.80
ZZZZZZ	965849	10.64	784979	14.60	450344	17.80
T39646-7	916894	10.64	750960	14.61	432835	17.80
T39646-2	1051278	10.64	850720	14.61	481674	17.80

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3602-CC3547	**Injection Date:**	10/14/09
Lab File ID:	F020748.D	**Injection Time:**	10:53
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	918691	10.62	752317	14.60	442378	17.79
Upper Limit [a]	1837382	11.12	1504634	15.10	884756	18.29
Lower Limit [b]	459346	10.12	376159	14.10	221189	17.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3601-BS	1027632	10.64	822607	14.60	479799	17.79
VF3602-BS	1027632	10.64	822607	14.60	479799	17.79
VF3602-MB	1033332	10.64	822597	14.60	460325	17.80
VF3601-MB	1033332	10.64	822597	14.60	460325	17.80
OP13245-LB	966112	10.63	770548	14.60	440801	17.79
T39643-1	962905	10.64	777194	14.61	446293	17.79
T39643-1MS	972713	10.64	783951	14.61	457861	17.80
T39643-1MSD	988472	10.65	795738	14.61	460923	17.80
ZZZZZZ	966491	10.64	779166	14.61	438514	17.80
ZZZZZZ	970038	10.64	771329	14.61	430723	17.81
ZZZZZZ	906321	10.64	724731	14.61	424499	17.80
ZZZZZZ	931238	10.64	741892	14.62	425747	17.80
ZZZZZZ	955364	10.65	751698	14.62	433391	17.81
ZZZZZZ	989343	10.65	772110	14.61	440271	17.80
T39646-6	904865	10.64	715250	14.61	411060	17.80
T39646-6MS	925486	10.64	767573	14.61	444834	17.80
T39646-6MSD	957713	10.64	757812	14.61	443125	17.80
ZZZZZZ	965849	10.64	784979	14.60	450344	17.80
T39646-7	916894	10.64	750960	14.61	432835	17.80
T39646-2	1051278	10.64	850720	14.61	481674	17.80

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3603-CC3547	**Injection Date:**	10/15/09
Lab File ID:	F020774.D	**Injection Time:**	09:36
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1106564	10.65	788756	14.62	445191	17.80
Upper Limit [a]	2213128	11.15	1577512	15.12	890382	18.30
Lower Limit [b]	553282	10.15	394378	14.12	222596	17.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3603-BS	1101097	10.64	818535	14.62	441750	17.81
VF3603-MB	1149860	10.65	803928	14.63	438062	17.81
ZZZZZZ	1114420	10.65	776344	14.62	421797	17.81
ZZZZZZ	1114947	10.65	784195	14.62	422696	17.81
ZZZZZZ	1079078	10.65	757392	14.62	411258	17.81
ZZZZZZ	1105103	10.66	763539	14.62	423126	17.81
ZZZZZZ	1109101	10.66	779967	14.63	426314	17.82
ZZZZZZ	1092919	10.66	765232	14.63	418863	17.82
T39646-4	1066022	10.65	745001	14.62	425403	17.81
T39646-5	1091592	10.66	773019	14.62	426162	17.81
T39537-1	1107240	10.66	780262	14.63	431865	17.81
T39537-1MS	1088835	10.66	788188	14.62	436667	17.82
T39537-1MSD	1123656	10.66	803778	14.63	450285	17.82

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
T39646-1	F020719.D	92.0	82.0	87.0	88.0
T39646-2	F020769.D	100.0	94.0	95.0	87.0
T39646-3	C0004007.D	101.0	103.0	95.0	78.0* [a]
T39646-3	F020721.D	92.0	77.0	88.0	91.0
T39646-4	F020786.D	92.0	89.0	96.0	90.0
T39646-4	F020728.D	99.0	88.0	88.0	89.0
T39646-5	F020787.D	91.0	87.0	95.0	93.0
T39646-5	F020732.D	98.0	82.0	90.0	92.0
T39646-6	F020763.D	103.0	101.0	94.0	86.0
T39646-7	F020768.D	104.0	101.0	91.0	86.0
T39646-8	F020735.D	92.0	81.0	89.0	88.0
T39646-9	F020736.D	95.0	82.0	89.0	88.0
T39646-10	F020737.D	98.0	90.0	88.0	88.0
T39646-11	F020738.D	95.0	85.0	88.0	87.0
T39646-12	F020706.D	98.0	98.0	87.0	89.0
T39308-1MS	C0003991.D	104.0	106.0	98.0	85.0
T39308-1MSD	C0003992.D	102.0	104.0	98.0	86.0
T39513-1MS	F020708.D	99.0	106.0	87.0	89.0
T39513-1MSD	F020709.D	99.0	102.0	85.0*	87.0
T39537-1MS	F020789.D	91.0	91.0	94.0	92.0
T39537-1MSD	F020790.D	89.0	88.0	96.0	91.0
T39646-4MS	F020729.D	94.0	79.0	91.0	92.0
T39646-4MSD	F020730.D	93.0	81.0	90.0	89.0
T39646-6MS	F020764.D	103.0	103.0	92.0	85.0
T39646-6MSD	F020765.D	100.0	98.0	93.0	86.0
VC175-BS	C0003986.D	103.0	102.0	100.0	90.0
VC175-MB	C0003988.D	109.0	108.0	93.0	82.0
VF3599-BS	F020701.D	99.0	100.0	88.0	90.0
VF3599-MB	F020704.D	100.0	99.0	87.0	90.0
VF3600-BS	F020725.D	90.0	82.0	90.0	86.0
VF3600-MB	F020727.D	96.0	88.0	88.0	86.0
VF3602-BS	F020749.D	101.0	100.0	92.0	87.0
VF3602-MB	F020751.D	101.0	99.0	94.0	89.0
VF3603-BS	F020777.D	90.0	88.0	92.0	90.0
VF3603-MB	F020779.D	90.0	86.0	94.0	91.0
OP13245-LB	F020752.D	104.0	103.0	94.0	89.0

Surrogate Compounds **Recovery Limits**

Volatile Surrogate Recovery Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-122%
S2 = 1,2-Dichloroethane-D4	75-121%
S3 = Toluene-D8	87-119%
S4 = 4-Bromofluorobenzene	80-133%

(a) Outside control limits due to matrix interference. There were no target compounds associated with this surrogate.

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VC168-ICC168
Lab FileID: C0003819.D

Response Factor Report TXMSC

```
Method       : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title        : SW846 8260B and EPA624
Last Update  : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Calibration Files
5   =C0003817.D  1   =C0003815.D  40  =C0003819.D  20  =C0003818.D
100 =C0003820.D  200 =C0003821.D  2   =C0003816.D      =

 Compound         5     1     40    20    100   200   2           Avg %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2) Dichlorodifl 0.204 0.201 0.205 0.186 0.202 0.197 0.192       0.198   3.55
3) Chloromethan 0.202 0.205 0.188 0.159 0.174 0.168 0.197       0.185   9.77
4) Vinyl Chlori 0.193 0.201 0.192 0.166 0.174 0.171 0.190       0.184   7.33
5) Bromomethane 0.177 0.200 0.164 0.148 0.138 0.119 0.187       0.162  17.66
           ---- Linear regression ----  Coefficient =  0.9921
             Response Ratio = 0.01270 + 0.12002 *A

6) Chloroethane 0.132 0.159 0.120 0.108 0.105 0.100 0.120       0.120  16.63
           ---- Linear regression ----  Coefficient =  0.9984
             Response Ratio = 0.00504 + 0.09988 *A

7) Trichloroflu 0.330 0.333 0.309 0.283 0.299 0.297 0.315       0.309   5.93
8) Ethyl Ether  0.182 0.184 0.190 0.157 0.187 0.179 0.160       0.177   7.47
9) Acrolein     0.002       0.002 0.002 0.003 0.003 0.001       0.002  26.12
           ---- Linear regression ----  Coefficient =  0.9993
             Response Ratio = -0.00080 + 0.00265 *A

10) 1,1-Dichloro 0.311 0.307 0.347 0.286 0.356 0.346 0.270       0.317  10.39
11) Freon 113    0.217 0.204 0.213 0.188 0.211 0.199 0.206       0.205   4.72
12) Acetone      0.055 0.076 0.053 0.048 0.053 0.051 0.064       0.057  17.31
           ---- Linear regression ----  Coefficient =  0.9997
             Response Ratio = 0.00236 + 0.05128 *A

13) Iodomethane  0.392 0.370 0.450 0.366 0.457 0.448 0.358       0.406  10.86
14) Methyl Aceta 0.139 0.122 0.148 0.130 0.145 0.136 0.135       0.137   6.43
15) Carbon Disul 0.689 0.696 0.736 0.635 0.736 0.713 0.661       0.695   5.43
16) Methylene Ch 0.419 0.864 0.322 0.298 0.302 0.282 0.578       0.438  49.13
           ---- Linear regression ----  Coefficient =  0.9988
             Response Ratio = 0.01758 + 0.28062 *A

17) Tert Butyl A 0.006 0.005 0.007 0.006 0.007 0.006 0.006       0.006   8.67
18) trans-1,2-Di 0.317 0.287 0.353 0.297 0.348 0.329 0.286       0.317   8.79
19) Acrylonitril 0.066 0.054 0.074 0.064 0.074 0.070 0.061       0.066  11.07
20) Methyl Tert  0.486 0.387 0.686 0.545 0.709 0.698 0.440       0.565  23.63
           ---- Linear regression ----  Coefficient =  0.9995
             Response Ratio = -0.02037 + 0.70558 *A

21) Hexane       0.111 0.095 0.136 0.113 0.142 0.134 0.094       0.118  16.80
           ---- Linear regression ----  Coefficient =  0.9986
             Response Ratio = -0.00114 + 0.13559 *A

22) 1,1-Dichloro 0.453 0.416 0.445 0.387 0.429 0.400 0.407       0.420   5.70
23) Vinyl Acetat 0.357 0.216 0.433 0.372 0.412 0.365 0.278       0.348  21.80
           ---- Linear regression ----  Coefficient =  0.9955
             Response Ratio = 0.06895 + 0.37152 *A
```

```
24) Di-isopropyl 0.490 0.375 0.676 0.539 0.678 0.651 0.429       0.548  22.50
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.00859 + 0.65897 *A

25) Ethyl tert-b 0.519 0.370 0.711 0.568 0.727 0.704 0.442       0.577  24.63
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.01470 + 0.71312 *A

26) 2,2-Dichloro 0.292 0.275 0.309 0.272 0.302 0.289 0.274       0.287   5.11
27) cis-1,2-Dich 0.265 0.251 0.292 0.248 0.281 0.262 0.228       0.261   8.21
28) 2-Butanone   0.216 0.177 0.258 0.226 0.256 0.238 0.200       0.224  13.15
29) Bromochlorom 0.163 0.148 0.164 0.144 0.159 0.150 0.155       0.155   5.05
30) Chloroform   0.485 0.562 0.466 0.407 0.457 0.424 0.456       0.465  10.78
31) Tetrahydrofu 0.042 0.033 0.055 0.047 0.057 0.052 0.039       0.047  18.56
            ---- Linear regression ----  Coefficient =  0.9977
              Response Ratio = 0.00033 + 0.05264 *A

32) 1,1,1-Trichl 0.333 0.284 0.364 0.305 0.363 0.350 0.312       0.330   9.32
33) Dibromofluor 0.256 0.289 0.264 0.226 0.248 0.245 0.255       0.255   7.49
34) Cyclohexane  0.176 0.130 0.239 0.200 0.246 0.234 0.144       0.195  24.00
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.00294 + 0.23697 *A

35) n-Butyl Alco 0.000 0.001 0.002 0.002 0.002 0.002 0.001       0.002  51.10
            ---- Linear regression ----  Coefficient =  0.9986
              Response Ratio = -0.00189 + 0.00241 *A

36) 1,1-Dichloro 0.250 0.190 0.318 0.275 0.322 0.299 0.208       0.266  19.63
            ---- Linear regression ----  Coefficient =  0.9984
              Response Ratio = 0.00126 + 0.30328 *A

37) Isobutyl Alc 0.005 0.003 0.006 0.005 0.007 0.007 0.004       0.005  25.94
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.00249 + 0.00664 *A

38) Carbon Tetra 0.293 0.259 0.312 0.272 0.316 0.302 0.265       0.288   7.97
39) 1,2-Dichloro 0.290 0.309 0.284 0.251 0.264 0.252 0.279       0.275   7.76
40) Benzene      1.058 0.902 1.093 0.963 1.037 0.928 0.953       0.991   7.27
41) 1,2-Dichloro 0.342 0.300 0.350 0.304 0.340 0.322 0.318       0.325   5.91
42) tert-amyl me 0.500 0.332 0.704 0.565 0.725 0.682 0.400       0.558  27.79
            ---- Linear regression ----  Coefficient =  0.9986
              Response Ratio = -0.00869 + 0.69310 *A

43) Trichloroeth 0.238 0.223 0.259 0.212 0.262 0.252 0.231       0.239   7.91
44) Methylcycloh 0.141 0.213 0.208 0.161 0.224 0.215 0.112       0.182  24.14
            ---- Linear regression ----  Coefficient =  0.9990
              Response Ratio = -0.00668 + 0.21857 *A

45) 1,2-Dichloro 0.229 0.213 0.263 0.223 0.255 0.238 0.221       0.234   7.84
46) Dibromometha 0.168 0.153 0.176 0.151 0.172 0.163 0.157       0.163   5.80
47) 1,4-Dioxane  0.002 0.001 0.003 0.002 0.003 0.003 0.002       0.002  32.60
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = -0.00273 + 0.00289 *A

48) Bromodichlor 0.301 0.339 0.342 0.282 0.344 0.336 0.290       0.319   8.46
49) 2-Nitropropa 0.041 0.029 0.046 0.038 0.058 0.058 0.038       0.044  24.34
            ---- Linear regression ----  Coefficient =  0.9980
              Response Ratio = -0.01864 + 0.05858 *A
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-ICC168
Lab FileID: C0003819.D

```
50) 2-Chloroethy 0.110 0.067 0.161 0.134 0.155 0.136 0.083       0.121  29.47
            ---- Linear regression ----  Coefficient =  0.9948
              Response Ratio = 0.02091 + 0.13907 *A

51) 4-Methyl-2-p 0.141 0.089 0.179 0.155 0.175 0.160 0.114       0.145  22.65
            ---- Linear regression ----  Coefficient =  0.9975
              Response Ratio = 0.01475 + 0.16226 *A

52) cis-1,3-Dich 0.333 0.259 0.437 0.345 0.444 0.426 0.286       0.362  20.78
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.00629 + 0.43116 *A


53) I   Chlorobenzene-d5      ----------------ISTD---------------------
54) Toluene-d8   1.014 1.007 1.148 0.953 1.093 1.073 0.935       1.032   7.45
55) Toluene      1.208 0.964 1.400 1.179 1.363 1.282 1.048       1.206  13.22
56) trans-1,3-Di 0.340 0.254 0.444 0.365 0.458 0.445 0.293       0.371  21.76
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = -0.00910 + 0.44994 *A

57) 1,1,2-Trichl 0.258 0.276 0.262 0.231 0.257 0.246 0.257       0.255   5.42
58) Tetrachloroe 0.319 0.325 0.333 0.286 0.335 0.328 0.311       0.320   5.25
59) 2-hexanone   0.109 0.067 0.154 0.130 0.155 0.146 0.086       0.121  28.82
            ---- Linear regression ----  Coefficient =  0.9987
              Response Ratio = -0.00374 + 0.14837 *A

60) 1,3-Dichloro 0.501 0.406 0.537 0.464 0.517 0.489 0.449       0.481   9.27
61) Dibromochlor 0.280 0.217 0.336 0.271 0.350 0.352 0.271       0.297  17.07
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.01169 + 0.35488 *A

62) 1,2-Dibromoe 0.270 0.229 0.319 0.269 0.327 0.319 0.273       0.287  12.59
63) 1-Chlorohexa 0.143 0.125 0.248 0.178 0.272 0.269 0.125       0.194  34.55
            ---- Linear regression ----  Coefficient =  0.9990
              Response Ratio = -0.01426 + 0.27323 *A

64) Chlorobenzen 0.970 0.933 0.988 0.842 0.950 0.890 0.965       0.934   5.49
65) 1,1,1,2-Tetr 0.309 0.287 0.345 0.287 0.345 0.338 0.321       0.319   8.02
66) Ethylbenzene 1.208 1.183 1.409 1.178 1.368 1.286 1.159       1.256   7.96
67) m,p-Xylene   0.887 0.704 1.075 0.903 1.049 0.974 1.456       1.007  23.15
            ---- Linear regression ----  Coefficient =  0.9982
              Response Ratio = 0.03332 + 0.98521 *A

68) o-Xylene     0.750 0.590 1.115 0.861 1.123 1.067 0.629       0.876  26.08
            ---- Linear regression ----  Coefficient =  0.9988
              Response Ratio = -0.01548 + 1.08304 *A

69) Styrene      0.663 0.433 0.998 0.789 0.998 0.936 0.483       0.757  31.33
            ---- Linear regression ----  Coefficient =  0.9984
              Response Ratio = -0.00729 + 0.95073 *A

70) Bromoform    0.179 0.150 0.227 0.176 0.248 0.258 0.172       0.202  20.88
            ---- Linear regression ----  Coefficient =  0.9990
              Response Ratio = -0.01462 + 0.25947 *A


71) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
72) Isopropylben 1.262 1.068 1.958 1.507 2.014 1.933 1.074       1.545  27.35
            ---- Linear regression ----  Coefficient =  0.9990
              Response Ratio = -0.04580 + 1.96203 *A
```

```
73) Cyclohexanon 0.009 0.005 0.012 0.010 0.013 0.013 0.009       0.010  28.17
            ---- Linear regression ----  Coefficient =  0.9992
              Response Ratio = -0.00703 + 0.01334 *A

74) 4-Bromofluor 0.711 0.877 0.878 0.704 0.851 0.838 0.670       0.790  11.46
75) Bromobenzene 0.881 0.747 0.942 0.804 0.908 0.860 0.782       0.846   8.38
76) 1,1,2,2-Tetr 0.770 0.741 0.802 0.726 0.786 0.756 0.719       0.757   4.08
77) Trans-1,4-Di 0.161 0.125 0.208 0.174 0.208 0.202 0.133       0.173  20.06
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = -0.00252 + 0.20402 *A

78) 1,2,3-Trichl 0.273 0.166 0.249 0.232 0.239 0.223 0.231       0.230  14.20
79) n-Propylbenz 1.828 1.430 2.564 2.103 2.552 2.369 1.443       2.041  23.85
            ---- Linear regression ----  Coefficient =  0.9981
              Response Ratio = 0.00437 + 2.40635 *A

80) 2-Chlorotolu 1.835 1.249 2.078 1.795 2.003 1.886 1.466       1.759  16.91
            ---- Linear regression ----  Coefficient =  0.9987
              Response Ratio = 0.02580 + 1.90441 *A

81) 4-Chlorotolu 1.538 1.165 1.909 1.583 1.903 1.805 1.281       1.598  18.50
            ---- Linear regression ----  Coefficient =  0.9990
              Response Ratio = -0.00428 + 1.82701 *A

82) 1,3,5-Trimet 1.266 0.914 1.883 1.511 1.896 1.819 0.965       1.465  28.98
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.02928 + 1.84331 *A

83) sec-Butylben 1.449 1.118 2.009 1.634 2.078 1.973 1.128       1.627  25.21
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = -0.03058 + 2.00203 *A

84) 1,3-Dichloro 1.308 1.156 1.400 1.199 1.390 1.325 1.189       1.281   7.77
85) 4-Isopropylt 1.133 0.852 1.728 1.369 1.777 1.702 0.896       1.351  29.48
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.03644 + 1.72748 *A

86) 1,4-Dichloro 1.510 1.605 1.513 1.316 1.482 1.412 1.485       1.475   6.12
87) tert-Butylbe 0.636 0.597 0.914 0.736 0.949 0.910 0.558       0.757  21.89
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.01835 + 0.92232 *A

88) n-Butylbenze 1.132 1.006 1.485 1.212 1.532 1.433 0.974       1.253  18.39
            ---- Linear regression ----  Coefficient =  0.9985
              Response Ratio = -0.00982 + 1.45493 *A

89) 1,2-Dichloro 1.283 1.195 1.398 1.182 1.392 1.343 1.235       1.290   6.99
90) 1,2,4-Trimet 1.435 1.024 2.053 1.678 2.034 1.935 1.048       1.601  27.64
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = -0.01444 + 1.96034 *A

91) 1,2-Dibromo- 0.088 0.090 0.101 0.088 0.108 0.113 0.093       0.097  10.35
92) 1,2,4-Trichl 0.520 0.515 0.610 0.502 0.662 0.666 0.480       0.565  13.95
93) Hexachlorobu 0.326 0.457 0.307 0.292 0.340 0.312 0.312       0.335  16.70
            ---- Linear regression ----  Coefficient =  0.9979
              Response Ratio = 0.00248 + 0.31605 *A

94) Naphthalene  0.773 0.722 1.207 0.900 1.373 1.423 0.772       1.024  29.51
            ---- Linear regression ----  Coefficient =  0.9986
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-ICC168
Lab FileID: C0003819.D

```
                Response Ratio = -0.09902 + 1.43776 *A

95) 1,2,3-Trichl 0.382 0.370 0.458 0.384 0.501 0.492 0.362       0.421  14.31

96) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
97) TPH-GRO (C6- 3.641       4.835 4.001 2.422                   3.725  26.90
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          VC168.m           Thu Oct 08 15:01:46 2009
```

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VC168-ICV168
Lab FileID: C0003823.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VC0168\C0003823.D Vial: 10
Acq On : 8 Oct 2009 1:20 pm Operator: AnjanaP
Sample : icv168-40 Inst : TXMSC
Misc : ms7089,VC0168,5,,,5,,WATER Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title : SW846 8260B and EPA624
Last Update : Thu Oct 08 12:49:21 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	102	0.00	10.40
2	Dichlorodifluoromethane	0.198	0.166	16.2	83	0.00	4.38
3 P	Chloromethane	0.185	0.192	-3.8	105	-0.01	4.79
4 C	Vinyl Chloride	0.184	0.197	-7.1	105	0.00	5.05
	----------	Amount	Calc.	%Drift		----------	
5	Bromomethane	40.000	45.826	-14.6	96	0.00	5.68
6	Chloroethane	40.000	42.983	-7.5	97	0.00	5.84
	----------	AvgRF	CCRF	%Dev		----------	
7	Trichlorofluoromethane	0.309	0.287	7.1	95	0.01	6.26
8	Ethyl Ether	0.177	0.181	-2.3	97	0.00	6.62
	----------	Amount	Calc.	%Drift		----------	
9	Acrolein	200.000	124.760	37.6#	60	0.00	6.94
	----------	AvgRF	CCRF	%Dev		----------	
10 C	1,1-Dichloroethene	0.317	0.279	12.0	82	0.00	7.05
11	Freon 113	0.205	0.172	16.1	83	0.00	6.95
	----------	Amount	Calc.	%Drift		----------	
12	Acetone	200.000	200.030	-0.0	100	-0.01	7.13
	----------	AvgRF	CCRF	%Dev		----------	
13	Iodomethane	0.406	0.383	5.7	87	0.00	7.33
14	Methyl Acetate	0.137	0.133	2.9	92	-0.01	7.49
15	Carbon Disulfide	0.695	0.594	14.5	83	0.00	7.44
	----------	Amount	Calc.	%Drift		----------	
16	Methylene Chloride	40.000	35.506	11.2	86	0.00	7.73
	----------	AvgRF	CCRF	%Dev		----------	
17	Tert Butyl Alcohol	0.006	0.006	0.0	92	0.00	7.50
18	trans-1,2-Dichloroethene	0.317	0.292	7.9	85	0.00	8.01
19	Acrylonitrile	0.066	0.069	-4.5	96	0.00	8.07
	----------	Amount	Calc.	%Drift		----------	
20	Methyl Tert Butyl Ether	40.000	35.818	10.5	91	0.00	7.93
21	Hexane	40.000	30.715	23.2#	77	0.01	8.20
	----------	AvgRF	CCRF	%Dev		----------	
22 P	1,1-Dichloroethane	0.420	0.371	11.7	86	0.00	8.56

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-ICV168
Lab FileID: C0003823.D

			Amount	Calc.	%Drift			
23		Vinyl Acetate	200.000	193.410	3.3	89	-0.01	8.50
24		Di-isopropyl ether	40.000	36.215	9.5	89	0.00	8.44
25		Ethyl tert-butyl ether	40.000	34.810	13.0	87	0.00	8.85
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.287	0.245	14.6	81	0.00	9.20
27		cis-1,2-Dichloroethene	0.261	0.250	4.2	88	0.00	9.22
28		2-Butanone	0.224	0.242	-8.0	96	0.00	9.14
29		Bromochloromethane	0.155	0.139	10.3	87	0.00	9.50
30	C	Chloroform	0.465	0.390	16.1	86	0.00	9.52
			Amount	Calc.	%Drift			
31		Tetrahydrofuran	40.000	65.548	-63.9#	161	0.00	9.49
			AvgRF	CCRF	%Dev			
32		1,1,1-Trichloroethane	0.330	0.297	10.0	84	0.00	9.75
33	S	Dibromofluoromethane	0.255	0.292	-14.5	113	0.00	9.70
			Amount	Calc.	%Drift			
34		Cyclohexane	40.000	33.257	16.9	83	0.00	9.76
35		n-Butyl Alcohol	400.000	827.646	-106.9#	241	0.00	10.55
36		1,1-Dichloropropene	40.000	34.659	13.4	85	0.00	9.90
37		Isobutyl Alcohol	400.000	877.672	-119.4#	241	0.00	9.86
			AvgRF	CCRF	%Dev			
38		Carbon Tetrachloride	0.288	0.248	13.9	82	0.00	9.89
39	S	1,2-Dichloroethane-d4	0.275	0.317	-15.3	114	0.00	10.12
40		Benzene	0.991	0.909	8.3	85	0.00	10.13
41		1,2-Dichloroethane	0.325	0.294	9.5	86	0.00	10.20
			Amount	Calc.	%Drift			
42		tert-amyl methyl ether	40.000	35.631	10.9	88	0.00	10.11
			AvgRF	CCRF	%Dev			
43		Trichloroethene	0.239	0.218	8.8	86	0.00	10.77
			Amount	Calc.	%Drift			
44		Methylcyclohexane	40.000	31.660	20.8#	81	0.00	10.93
			AvgRF	CCRF	%Dev			
45	C	1,2-Dichloropropane	0.234	0.219	6.4	85	0.00	11.07
46		Dibromomethane	0.163	0.150	8.0	87	0.00	11.21
			Amount	Calc.	%Drift			
47		1,4-Dioxane	800.000	739.106	7.6	95	0.00	11.14
			AvgRF	CCRF	%Dev			
48		Bromodichloromethane	0.319	0.283	11.3	85	0.00	11.31
			Amount	Calc.	%Drift			
49		2-Nitropropane	200.000	162.047	19.0	95	0.00	11.59
50		2-Chloroethyl vinyl ether	200.000	193.577	3.2	89	0.00	11.53
51		4-Methyl-2-pentanone	200.000	211.319	-5.7	100	0.00	11.84
52		cis-1,3-Dichloropropene	40.000	34.748	13.1	86	0.00	11.76
			AvgRF	CCRF	%Dev			
53	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.55

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-ICV168
Lab FileID: C0003823.D

54	S	Toluene-d8	1.032	1.338	-29.7#	119	0.00	12.01
55	C	Toluene	1.206	1.189	1.4	87	0.00	12.07
			Amount	Calc.	%Drift			
56		trans-1,3-Dichloropropene	40.000	36.861	7.8	93	0.00	12.31
			AvgRF	CCRF	%Dev			
57		1,1,2-Trichloroethane	0.255	0.225	11.8	88	0.00	12.53
58		Tetrachloroethene	0.320	0.282	11.9	86	0.00	12.63
			Amount	Calc.	%Drift			
59		2-hexanone	200.000	202.552	-1.3	99	0.00	12.67
			AvgRF	CCRF	%Dev			
60		1,3-Dichloropropane	0.481	0.459	4.6	87	0.00	12.72
			Amount	Calc.	%Drift			
61		Dibromochloromethane	40.000	34.375	14.1	88	0.00	12.96
			AvgRF	CCRF	%Dev			
62		1,2-Dibromoethane	0.287	0.280	2.4	90	0.00	13.13
			Amount	Calc.	%Drift			
63		1-Chlorohexane	40.000	32.598	18.5	85	0.00	13.41
			AvgRF	CCRF	%Dev			
64	P	Chlorobenzene	0.934	0.847	9.3	88	0.00	13.58
65		1,1,1,2-Tetrachloroethane	0.319	0.293	8.2	87	0.00	13.64
66	C	Ethylbenzene	1.256	1.174	6.5	85	0.00	13.60
			Amount	Calc.	%Drift			
67		m,p-Xylene	80.000	72.236	9.7	87	0.00	13.71
68		o-Xylene	40.000	35.863	10.3	87	0.00	14.14
69		Styrene	40.000	33.264	16.8	80	0.00	14.16
70	P	Bromoform	40.000	33.553	16.1	90	0.00	14.47
			AvgRF	CCRF	%Dev			
71	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.95
			Amount	Calc.	%Drift			
72		Isopropylbenzene	40.000	35.781	10.5	90	0.00	14.49
73		Cyclohexanone	400.000	661.548	-65.4#	189	0.00	14.74
			AvgRF	CCRF	%Dev			
74	S	4-Bromofluorobenzene	0.790	0.948	-20.0	113	0.00	14.75
75		Bromobenzene	0.846	0.787	7.0	87	0.00	14.95
76	P	1,1,2,2-Tetrachloroethane	0.757	0.735	2.9	96	0.00	14.85
			Amount	Calc.	%Drift			
77		Trans-1,4-Dichloro-2-bute	40.000	35.859	10.4	90	0.00	14.91
			AvgRF	CCRF	%Dev			
78		1,2,3-Trichloropropane	0.230	0.204	11.3	85	0.00	14.95
			Amount	Calc.	%Drift			
79		n-Propylbenzene	40.000	34.930	12.7	86	0.00	14.91
80		2-Chlorotoluene	40.000	35.586	11.0	87	0.00	15.09
81		4-Chlorotoluene	40.000	35.360	11.6	88	0.00	15.20
82		1,3,5-Trimethylbenzene	40.000	33.971	15.1	85	0.00	15.07

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC168-ICV168
Lab FileID: C0003823.D

83	sec-Butylbenzene	40.000	32.703	18.2	83	0.01	15.65
	----------	AvgRF	CCRF	%Dev	----------		
84	1,3-Dichlorobenzene	1.281	1.173	8.4	87	0.00	15.89
	----------	Amount	Calc.	%Drift	----------		
85	4-Isopropyltoluene	40.000	32.687	18.3	82	0.00	15.77
	----------	AvgRF	CCRF	%Dev	----------		
86	1,4-Dichlorobenzene	1.475	1.273	13.7	88	0.00	15.99
	----------	Amount	Calc.	%Drift	----------		
87	tert-Butylbenzene	40.000	33.397	16.5	85	0.00	15.42
88	n-Butylbenzene	40.000	31.988	20.0#	81	0.00	16.21
	----------	AvgRF	CCRF	%Dev	----------		
89	1,2-Dichlorobenzene	1.290	1.198	7.1	89	0.00	16.42
	----------	Amount	Calc.	%Drift	----------		
90	1,2,4-Trimethylbenzene	40.000	35.102	12.2	87	0.00	15.48
	----------	AvgRF	CCRF	%Dev	----------		
91	1,2-Dibromo-3-Chloropropa	0.097	0.098	-1.0	102	0.00	17.34
92	1,2,4-Trichlorobenzene	0.565	0.531	6.0	91	0.00	18.38
	----------	Amount	Calc.	%Drift	----------		
93	Hexachlorobutadiene	40.000	34.518	13.7	94	0.00	18.47
94	Naphthalene	40.000	35.544	11.1	100	0.00	18.80
	----------	AvgRF	CCRF	%Dev	----------		
95	1,2,3-Trichlorobenzene	0.421	0.423	-0.5	96	0.00	19.15
96 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	104	0.00	15.95
97 H	TPH-GRO (C6-C10)	3.725	4.288	-15.1	93	0.00	11.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0003819.D VC168.m Thu Oct 08 15:01:27 2009

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VC175-CC168
Lab FileID: C0003985.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VC0175\C0003985.D Vial: 4
Acq On : 14 Oct 2009 11:19 am Operator: AnjanaP
Sample : cc168-40 Inst : TXMSC
Misc : ms7106,VC0176,5,,,5,,WATER Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title : SW846 8260B and EPA624
Last Update : Thu Oct 08 12:49:21 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	77	0.00	10.40
2	Dichlorodifluoromethane	0.198	0.179	9.6	67	0.01	4.39
3 P	Chloromethane	0.185	0.194	-4.9	80	-0.01	4.79
4 C	Vinyl Chloride	0.184	0.201	-9.2	81	0.00	5.05
		Amount	Calc.	%Drift			
5	Bromomethane	40.000	58.326	-45.8#	90	0.01	5.69
6	Chloroethane	40.000	54.276	-35.7#	91	0.00	5.84
		AvgRF	CCRF	%Dev			
7	Trichlorofluoromethane	0.309	0.367	-18.8	92	0.01	6.26
8	Ethyl Ether	0.177	0.173	2.3	71	0.00	6.62
		Amount	Calc.	%Drift			
9	Acrolein	200.000	144.666	27.7#	54	0.00	6.94
		AvgRF	CCRF	%Dev			
10 C	1,1-Dichloroethene	0.317	0.315	0.6	70	0.00	7.05
11	Freon 113	0.205	0.231	-12.7	84	0.01	6.96
		Amount	Calc.	%Drift			
12	Acetone	200.000	215.293	-7.6	81	-0.01	7.13
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.406	0.401	1.2	69	0.00	7.33
14	Methyl Acetate	0.137	0.149	-8.8	78	0.00	7.50
15	Carbon Disulfide	0.695	0.747	-7.5	78	0.00	7.44
		Amount	Calc.	%Drift			
16	Methylene Chloride	40.000	43.675	-9.2	79	0.00	7.73
		AvgRF	CCRF	%Dev			
17	Tert Butyl Alcohol	0.006	0.007	-16.7	79	0.00	7.50
18	trans-1,2-Dichloroethene	0.317	0.357	-12.6	78	0.00	8.01
19	Acrylonitrile	0.066	0.076	-15.2	80	0.00	8.07
		Amount	Calc.	%Drift			
20	Methyl Tert Butyl Ether	40.000	35.926	10.2	69	0.00	7.93
21	Hexane	40.000	35.605	11.0	68	0.01	8.20
		AvgRF	CCRF	%Dev			
22 P	1,1-Dichloroethane	0.420	0.465	-10.7	81	0.00	8.56

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC175-CC168
Lab FileID: C0003985.D

			Amount	Calc.	%Drift			
23		Vinyl Acetate	200.000	229.049	-14.5	79	0.00	8.51
24		Di-isopropyl ether	40.000	37.247	6.9	69	0.00	8.44
25		Ethyl tert-butyl ether	40.000	36.918	7.7	70	0.00	8.85
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.287	0.354	-23.3#	89	0.01	9.21
27		cis-1,2-Dichloroethene	0.261	0.294	-12.6	78	0.00	9.22
28		2-Butanone	0.224	0.265	-18.3	80	0.00	9.14
29		Bromochloromethane	0.155	0.180	-16.1	85	0.00	9.50
30	C	Chloroform	0.465	0.512	-10.1	85	0.00	9.52
			Amount	Calc.	%Drift			
31		Tetrahydrofuran	40.000	41.204	-3.0	77	0.01	9.50
			AvgRF	CCRF	%Dev			
32		1,1,1-Trichloroethane	0.330	0.388	-17.6	82	0.00	9.75
33	S	Dibromofluoromethane	0.255	0.289	-13.3	85	0.00	9.70
			Amount	Calc.	%Drift			
34		Cyclohexane	40.000	37.608	6.0	71	0.00	9.76
35		n-Butyl Alcohol	400.000	342.613	14.3	70	0.00	10.55
36		1,1-Dichloropropene	40.000	42.957	-7.4	80	0.00	9.90
37		Isobutyl Alcohol	400.000	378.382	5.4	76	0.00	9.86
			AvgRF	CCRF	%Dev			
38		Carbon Tetrachloride	0.288	0.355	-23.3#	88	0.01	9.90
39	S	1,2-Dichloroethane-d4	0.275	0.326	-18.5	89	0.00	10.12
40		Benzene	0.991	1.146	-15.6	81	0.00	10.13
41		1,2-Dichloroethane	0.325	0.379	-16.6	84	0.00	10.20
			Amount	Calc.	%Drift			
42		tert-amyl methyl ether	40.000	38.155	4.6	71	0.00	10.11
			AvgRF	CCRF	%Dev			
43		Trichloroethene	0.239	0.250	-4.6	75	0.01	10.78
			Amount	Calc.	%Drift			
44		Methylcyclohexane	40.000	35.271	11.8	69	0.01	10.94
			AvgRF	CCRF	%Dev			
45	C	1,2-Dichloropropane	0.234	0.262	-12.0	77	0.00	11.07
46		Dibromomethane	0.163	0.185	-13.5	82	0.00	11.21
			Amount	Calc.	%Drift			
47		1,4-Dioxane	800.000	694.820	13.1	67	0.00	11.14
			AvgRF	CCRF	%Dev			
48		Bromodichloromethane	0.319	0.367	-15.0	83	0.00	11.31
			Amount	Calc.	%Drift			
49		2-Nitropropane	200.000	228.381	-14.2	104	0.00	11.59
50		2-Chloroethyl vinyl ether	200.000	206.768	-3.4	72	0.00	11.53
51		4-Methyl-2-pentanone	200.000	225.868	-12.9	81	0.00	11.84
52		cis-1,3-Dichloropropene	40.000	39.552	1.1	74	0.00	11.76
			AvgRF	CCRF	%Dev			
53	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	13.55

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC175-CC168
Lab FileID: C0003985.D

54	S	Toluene-d8	1.032	1.068	-3.5	78	0.00	12.01
			Amount	Calc.	%Drift			
55	C	Toluene	40.000	38.823	2.9	76	0.00	12.07
56		trans-1,3-Dichloropropene	40.000	38.288	4.3	79	0.00	12.31
			AvgRF	CCRF	%Dev			
57		1,1,2-Trichloroethane	0.255	0.247	3.1	79	0.00	12.53
58		Tetrachloroethene	0.320	0.309	3.4	78	0.00	12.63
			Amount	Calc.	%Drift			
59		2-hexanone	200.000	199.732	0.1	80	0.00	12.67
			AvgRF	CCRF	%Dev			
60		1,3-Dichloropropane	0.481	0.508	-5.6	79	0.00	12.72
			Amount	Calc.	%Drift			
61		Dibromochloromethane	40.000	39.425	1.4	84	0.00	12.96
			AvgRF	CCRF	%Dev			
62		1,2-Dibromoethane	0.287	0.284	1.0	75	0.00	13.13
			Amount	Calc.	%Drift			
63		1-Chlorohexane	40.000	30.489	23.8#	64	0.00	13.41
			AvgRF	CCRF	%Dev			
64	P	Chlorobenzene	0.934	0.932	0.2	79	0.00	13.58
65		1,1,1,2-Tetrachloroethane	0.319	0.346	-8.5	84	0.00	13.64
66	C	Ethylbenzene	1.256	1.295	-3.1	77	-0.01	13.59
			Amount	Calc.	%Drift			
67		m,p-Xylene	80.000	79.630	0.5	78	0.00	13.71
68		o-Xylene	40.000	36.720	8.2	73	0.01	14.15
69		Styrene	40.000	39.479	1.3	78	0.00	14.16
70	P	Bromoform	40.000	39.311	1.7	87	0.00	14.47
			AvgRF	CCRF	%Dev			
71	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00	15.95
			Amount	Calc.	%Drift			
72		Isopropylbenzene	40.000	33.506	16.2	70	0.00	14.49
73		Cyclohexanone	400.000	264.802	33.8#	59	0.00	14.74
			AvgRF	CCRF	%Dev			
74	S	4-Bromofluorobenzene	0.790	0.817	-3.4	81	0.00	14.75
75		Bromobenzene	0.846	0.862	-1.9	79	0.00	14.95
76	P	1,1,2,2-Tetrachloroethane	0.757	0.773	-2.1	83	0.00	14.85
			Amount	Calc.	%Drift			
77		Trans-1,4-Dichloro-2-bute	40.000	40.968	-2.4	86	0.00	14.91
			AvgRF	CCRF	%Dev			
78		1,2,3-Trichloropropane	0.230	0.243	-5.7	84	0.00	14.95
			Amount	Calc.	%Drift			
79		n-Propylbenzene	40.000	37.531	6.2	76	0.00	14.91
80		2-Chlorotoluene	40.000	38.978	2.6	79	0.00	15.09
81		4-Chlorotoluene	40.000	36.524	8.7	75	0.00	15.20
82		1,3,5-Trimethylbenzene	40.000	35.623	10.9	74	0.00	15.07

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC175-CC168
Lab FileID: C0003985.D

83	sec-Butylbenzene	40.000	34.526	13.7	73	0.01	15.65
	----------	AvgRF	CCRF	%Dev	----------		
84	1,3-Dichlorobenzene	1.281	1.271	0.8	79	0.00	15.89
	----------	Amount	Calc.	%Drift	----------		
85	4-Isopropyltoluene	40.000	34.138	14.7	72	0.00	15.77
	----------	AvgRF	CCRF	%Dev	----------		
86	1,4-Dichlorobenzene	1.475	1.404	4.8	80	0.00	15.99
	----------	Amount	Calc.	%Drift	----------		
87	tert-Butylbenzene	40.000	34.375	14.1	73	0.00	15.42
88	n-Butylbenzene	40.000	35.931	10.2	75	0.00	16.21
	----------	AvgRF	CCRF	%Dev	----------		
89	1,2-Dichlorobenzene	1.290	1.250	3.1	77	0.01	16.43
	----------	Amount	Calc.	%Drift	----------		
90	1,2,4-Trimethylbenzene	40.000	37.523	6.2	77	0.00	15.48
	----------	AvgRF	CCRF	%Dev	----------		
91	1,2-Dibromo-3-Chloropropa	0.097	0.099	-2.1	85	0.00	17.34
92	1,2,4-Trichlorobenzene	0.565	0.475	15.9	67	0.01	18.39
	----------	Amount	Calc.	%Drift	----------		
93	Hexachlorobutadiene	40.000	36.627	8.4	83	0.00	18.47
94	Naphthalene	40.000	27.974	30.1#	63	0.00	18.80
	----------	AvgRF	CCRF	%Dev	----------		
95	1,2,3-Trichlorobenzene	0.421	0.385	8.6	73	0.01	19.16
96 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	87	0.00	15.95
97 H	TPH-GRO (C6-C10)	3.725	4.346	-16.7	78	0.00	11.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0003819.D VC168.m Thu Oct 15 11:42:30 2009

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VC176-CC168
Lab FileID: C0003985.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VC0175\C0003985.D Vial: 4
Acq On : 14 Oct 2009 11:19 am Operator: AnjanaP
Sample : cc168-40 Inst : TXMSC
Misc : ms7106,VC0176,5,,,5,,WATER Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title : SW846 8260B and EPA624
Last Update : Thu Oct 08 12:49:21 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	77	0.00	10.40
2	Dichlorodifluoromethane	0.198	0.179	9.6	67	0.01	4.39
3 P	Chloromethane	0.185	0.194	-4.9	80	-0.01	4.79
4 C	Vinyl Chloride	0.184	0.201	-9.2	81	0.00	5.05
	----------	Amount	Calc.	%Drift	----------		
5	Bromomethane	40.000	58.326	-45.8#	90	0.01	5.69
6	Chloroethane	40.000	54.276	-35.7#	91	0.00	5.84
	----------	AvgRF	CCRF	%Dev	----------		
7	Trichlorofluoromethane	0.309	0.367	-18.8	92	0.01	6.26
8	Ethyl Ether	0.177	0.173	2.3	71	0.00	6.62
	----------	Amount	Calc.	%Drift	----------		
9	Acrolein	200.000	144.666	27.7#	54	0.00	6.94
	----------	AvgRF	CCRF	%Dev	----------		
10 C	1,1-Dichloroethene	0.317	0.315	0.6	70	0.00	7.05
11	Freon 113	0.205	0.231	-12.7	84	0.01	6.96
	----------	Amount	Calc.	%Drift	----------		
12	Acetone	200.000	215.293	-7.6	81	-0.01	7.13
	----------	AvgRF	CCRF	%Dev	----------		
13	Iodomethane	0.406	0.401	1.2	69	0.00	7.33
14	Methyl Acetate	0.137	0.149	-8.8	78	0.00	7.50
15	Carbon Disulfide	0.695	0.747	-7.5	78	0.00	7.44
	----------	Amount	Calc.	%Drift	----------		
16	Methylene Chloride	40.000	43.675	-9.2	79	0.00	7.73
	----------	AvgRF	CCRF	%Dev	----------		
17	Tert Butyl Alcohol	0.006	0.007	-16.7	79	0.00	7.50
18	trans-1,2-Dichloroethene	0.317	0.357	-12.6	78	0.00	8.01
19	Acrylonitrile	0.066	0.076	-15.2	80	0.00	8.07
	----------	Amount	Calc.	%Drift	----------		
20	Methyl Tert Butyl Ether	40.000	35.926	10.2	69	0.00	7.93
21	Hexane	40.000	35.605	11.0	68	0.01	8.20
	----------	AvgRF	CCRF	%Dev	----------		
22 P	1,1-Dichloroethane	0.420	0.465	-10.7	81	0.00	8.56

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC176-CC168
Lab FileID: C0003985.D

			Amount	Calc.	%Drift			
23		Vinyl Acetate	200.000	229.049	-14.5	79	0.00	8.51
24		Di-isopropyl ether	40.000	37.247	6.9	69	0.00	8.44
25		Ethyl tert-butyl ether	40.000	36.918	7.7	70	0.00	8.85
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.287	0.354	-23.3#	89	0.01	9.21
27		cis-1,2-Dichloroethene	0.261	0.294	-12.6	78	0.00	9.22
28		2-Butanone	0.224	0.265	-18.3	80	0.00	9.14
29		Bromochloromethane	0.155	0.180	-16.1	85	0.00	9.50
30	C	Chloroform	0.465	0.512	-10.1	85	0.00	9.52
			Amount	Calc.	%Drift			
31		Tetrahydrofuran	40.000	41.204	-3.0	77	0.01	9.50
			AvgRF	CCRF	%Dev			
32		1,1,1-Trichloroethane	0.330	0.388	-17.6	82	0.00	9.75
33	S	Dibromofluoromethane	0.255	0.289	-13.3	85	0.00	9.70
			Amount	Calc.	%Drift			
34		Cyclohexane	40.000	37.608	6.0	71	0.00	9.76
35		n-Butyl Alcohol	400.000	342.613	14.3	70	0.00	10.55
36		1,1-Dichloropropene	40.000	42.957	-7.4	80	0.00	9.90
37		Isobutyl Alcohol	400.000	378.382	5.4	76	0.00	9.86
			AvgRF	CCRF	%Dev			
38		Carbon Tetrachloride	0.288	0.355	-23.3#	88	0.01	9.90
39	S	1,2-Dichloroethane-d4	0.275	0.326	-18.5	89	0.00	10.12
40		Benzene	0.991	1.146	-15.6	81	0.00	10.13
41		1,2-Dichloroethane	0.325	0.379	-16.6	84	0.00	10.20
			Amount	Calc.	%Drift			
42		tert-amyl methyl ether	40.000	38.155	4.6	71	0.00	10.11
			AvgRF	CCRF	%Dev			
43		Trichloroethene	0.239	0.250	-4.6	75	0.01	10.78
			Amount	Calc.	%Drift			
44		Methylcyclohexane	40.000	35.271	11.8	69	0.01	10.94
			AvgRF	CCRF	%Dev			
45	C	1,2-Dichloropropane	0.234	0.262	-12.0	77	0.00	11.07
46		Dibromomethane	0.163	0.185	-13.5	82	0.00	11.21
			Amount	Calc.	%Drift			
47		1,4-Dioxane	800.000	694.820	13.1	67	0.00	11.14
			AvgRF	CCRF	%Dev			
48		Bromodichloromethane	0.319	0.367	-15.0	83	0.00	11.31
			Amount	Calc.	%Drift			
49		2-Nitropropane	200.000	228.381	-14.2	104	0.00	11.59
50		2-Chloroethyl vinyl ether	200.000	206.768	-3.4	72	0.00	11.53
51		4-Methyl-2-pentanone	200.000	225.868	-12.9	81	0.00	11.84
52		cis-1,3-Dichloropropene	40.000	39.552	1.1	74	0.00	11.76
			AvgRF	CCRF	%Dev			
53	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	13.55

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC176-CC168
Lab FileID: C0003985.D

54	S	Toluene-d8	1.032	1.068	-3.5	78	0.00	12.01
			Amount	Calc.	%Drift			
55	C	Toluene	40.000	38.823	2.9	76	0.00	12.07
56		trans-1,3-Dichloropropene	40.000	38.288	4.3	79	0.00	12.31
			AvgRF	CCRF	%Dev			
57		1,1,2-Trichloroethane	0.255	0.247	3.1	79	0.00	12.53
58		Tetrachloroethene	0.320	0.309	3.4	78	0.00	12.63
			Amount	Calc.	%Drift			
59		2-hexanone	200.000	199.732	0.1	80	0.00	12.67
			AvgRF	CCRF	%Dev			
60		1,3-Dichloropropane	0.481	0.508	-5.6	79	0.00	12.72
			Amount	Calc.	%Drift			
61		Dibromochloromethane	40.000	39.425	1.4	84	0.00	12.96
			AvgRF	CCRF	%Dev			
62		1,2-Dibromoethane	0.287	0.284	1.0	75	0.00	13.13
			Amount	Calc.	%Drift			
63		1-Chlorohexane	40.000	30.489	23.8#	64	0.00	13.41
			AvgRF	CCRF	%Dev			
64	P	Chlorobenzene	0.934	0.932	0.2	79	0.00	13.58
65		1,1,1,2-Tetrachloroethane	0.319	0.346	-8.5	84	0.00	13.64
66	C	Ethylbenzene	1.256	1.295	-3.1	77	-0.01	13.59
			Amount	Calc.	%Drift			
67		m,p-Xylene	80.000	79.630	0.5	78	0.00	13.71
68		o-Xylene	40.000	36.720	8.2	73	0.01	14.15
69		Styrene	40.000	39.479	1.3	78	0.00	14.16
70	P	Bromoform	40.000	39.311	1.7	87	0.00	14.47
			AvgRF	CCRF	%Dev			
71	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00	15.95
			Amount	Calc.	%Drift			
72		Isopropylbenzene	40.000	33.506	16.2	70	0.00	14.49
73		Cyclohexanone	400.000	264.802	33.8#	59	0.00	14.74
			AvgRF	CCRF	%Dev			
74	S	4-Bromofluorobenzene	0.790	0.817	-3.4	81	0.00	14.75
75		Bromobenzene	0.846	0.862	-1.9	79	0.00	14.95
76	P	1,1,2,2-Tetrachloroethane	0.757	0.773	-2.1	83	0.00	14.85
			Amount	Calc.	%Drift			
77		Trans-1,4-Dichloro-2-bute	40.000	40.968	-2.4	86	0.00	14.91
			AvgRF	CCRF	%Dev			
78		1,2,3-Trichloropropane	0.230	0.243	-5.7	84	0.00	14.95
			Amount	Calc.	%Drift			
79		n-Propylbenzene	40.000	37.531	6.2	76	0.00	14.91
80		2-Chlorotoluene	40.000	38.978	2.6	79	0.00	15.09
81		4-Chlorotoluene	40.000	36.524	8.7	75	0.00	15.20
82		1,3,5-Trimethylbenzene	40.000	35.623	10.9	74	0.00	15.07

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VC176-CC168
Lab FileID: C0003985.D

83	sec-Butylbenzene	40.000	34.526	13.7	73	0.01	15.65
	----------	AvgRF	CCRF	%Dev	----------		
84	1,3-Dichlorobenzene	1.281	1.271	0.8	79	0.00	15.89
	----------	Amount	Calc.	%Drift	----------		
85	4-Isopropyltoluene	40.000	34.138	14.7	72	0.00	15.77
	----------	AvgRF	CCRF	%Dev	----------		
86	1,4-Dichlorobenzene	1.475	1.404	4.8	80	0.00	15.99
	----------	Amount	Calc.	%Drift	----------		
87	tert-Butylbenzene	40.000	34.375	14.1	73	0.00	15.42
88	n-Butylbenzene	40.000	35.931	10.2	75	0.00	16.21
	----------	AvgRF	CCRF	%Dev	----------		
89	1,2-Dichlorobenzene	1.290	1.250	3.1	77	0.01	16.43
	----------	Amount	Calc.	%Drift	----------		
90	1,2,4-Trimethylbenzene	40.000	37.523	6.2	77	0.00	15.48
	----------	AvgRF	CCRF	%Dev	----------		
91	1,2-Dibromo-3-Chloropropa	0.097	0.099	-2.1	85	0.00	17.34
92	1,2,4-Trichlorobenzene	0.565	0.475	15.9	67	0.01	18.39
	----------	Amount	Calc.	%Drift	----------		
93	Hexachlorobutadiene	40.000	36.627	8.4	83	0.00	18.47
94	Naphthalene	40.000	27.974	30.1#	63	0.00	18.80
	----------	AvgRF	CCRF	%Dev	----------		
95	1,2,3-Trichlorobenzene	0.421	0.385	8.6	73	0.01	19.16
96 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	87	0.00	15.95
97 H	TPH-GRO (C6-C10)	3.725	4.346	-16.7	78	0.00	11.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0003819.D VC168.m Thu Oct 15 11:42:30 2009

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3547-ICC3547
Lab FileID: F019686.D

Response Factor Report GC/MS F

```
Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Tue Sep 15 16:21:04 2009
Response via : Initial Calibration

Calibration Files
1   =F019683.D   2   =F019684.D   3   =F019685.D   4   =F019686.D
7   =F019688.D   5   =F019687.D   8   =F019682.D

   Compound             1     2     3     4     7     5     8     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.274 0.296 0.255 0.348 0.253 0.248 0.291 0.281  12.57
3)P Chloromethane     0.234 0.229 0.183 0.347 0.247 0.235 0.356 0.261  24.68
           ---- Linear regression ----  Coefficient =  0.9906
             Response Ratio = 0.00644 + 0.24473 *A

4)C Vinyl Chloride    0.199 0.211 0.168 0.280 0.207 0.194 0.233 0.213  16.63
           ---- Linear regression ----  Coefficient =  0.9924
             Response Ratio = 0.00509 + 0.20439 *A

5)  Bromomethane      0.221 0.195 0.162 0.189 0.155 0.149 0.243 0.188  18.89
           ---- Linear regression ----  Coefficient =  0.9976
             Response Ratio = 0.00600 + 0.15275 *A

6)  Chloroethane      0.132 0.132 0.117 0.138 0.134 0.124 0.157 0.134   9.39
7)  Trichlorofluorome 0.455 0.440 0.401 0.450 0.412 0.386 0.493 0.434   8.47
8)  Acrolein          0.023 0.023 0.019 0.020 0.022 0.022 0.022 0.022   6.74
9)  Ethyl Ether       0.201 0.179 0.160 0.183 0.174 0.169 0.195 0.180   7.90
10)C 1,1-Dichloroethen 0.391 0.358 0.315 0.354 0.341 0.328 0.365 0.350   7.11
11)  Freon 113        0.249 0.256 0.218 0.221 0.221 0.205 0.207 0.225   8.65
12)  Acetone          0.120 0.082 0.062 0.071 0.062 0.064 0.171 0.090  45.59
           ---- Linear regression ----  Coefficient =  0.9994
             Response Ratio = 0.01355 + 0.06190 *A

13)  Iodomethane      0.406 0.398 0.370 0.428 0.363 0.370 0.382 0.388   6.05
14)  Methyl acetate   0.170 0.146 0.125 0.144 0.145 0.145 0.217 0.156  19.26
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = -0.00620 + 0.14558 *A

15)  Allyl Chloride   0.288 0.331 0.329 0.234 0.189 0.227       0.266  22.03
           ---- Quadratic regression ----  Coefficient =  0.9980
             Response Ratio = 0.00907 + 0.25660 *A + -0.01757 *A^2

16)  Carbon Disulfide 0.710 0.714 0.626 0.691 0.700 0.673 0.719 0.690   4.73
17)  Acetonitrile     0.103 0.157 0.041 0.041 0.059 0.050 0.175 0.090  63.38
           ---- Quadratic regression ----  Coefficient =  0.9977
             Response Ratio = 0.01091 + 0.03549 *A + 0.00225 *A^2

18)  Methylene Chlorid 0.392 0.323 0.275 0.307 0.290 0.291 0.499 0.340  23.58
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = 0.00382 + 0.28922 *A

19)  Tert Butyl Alcoho 0.022 0.020 0.018 0.022 0.019 0.020 0.024 0.021   9.78
20)  trans-1,2-Dichlor 0.341 0.338 0.306 0.340 0.320 0.316 0.325 0.327   4.18
21)  Acrylonitrile    0.060 0.057 0.052 0.055 0.063 0.062 0.061 0.058   6.89
22)  Methyl Tert Butyl 0.808 0.744 0.671 0.772 0.686 0.690 0.810 0.740   7.93
```

Initial Calibration Summary

Job Number: T39646 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

23)	Hexane	0.194	0.197	0.165	0.165	0.180	0.180	0.181	0.180	7.09
24)P	1,1-Dichloroethan	0.441	0.445	0.373	0.434	0.398	0.388	0.410	0.413	6.80
25)	Vinyl acetate	0.534	0.522	0.460	0.536	0.501	0.492	0.580	0.518	7.36
26)	Di-isopropyl ethe	0.810	0.816	0.710	0.819	0.805	0.799	0.891	0.807	6.54
27)	Chloroprene	0.383	0.405	0.388	0.394	0.352	0.330	0.426	0.382	8.43
28)	Ethyl tert-butyl	0.794	0.813	0.731	0.848	0.766	0.773	0.828	0.793	5.07
29)	2,2-Dichloropropa	0.382	0.392	0.329	0.353	0.264	0.287	0.379	0.341	14.67
30)	cis-1,2-Dichloroe	0.307	0.292	0.267	0.295	0.273	0.266	0.287	0.284	5.45
31)	Ethyl Acetate	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
32)	2-Butanone	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
33)	Propionitrile	0.019	0.021	0.022	0.023	0.024	0.023	0.019	0.021	8.86
34)	Methacrylonitrile	0.209	0.173	0.168	0.177	0.163	0.164	0.260	0.188	18.90
35)	Bromochloromethan	0.147	0.143	0.136	0.154	0.139	0.140	0.125	0.141	6.37
36)C	Chloroform	0.605	0.573	0.515	0.590	0.490	0.508	0.547	0.547	8.08
37)	Tetrahydrofuran	0.119	0.088	0.125	0.145	0.119	0.120	0.175	0.127	21.05

---- Linear regression ---- Coefficient = 0.9980
Response Ratio = 0.00368 + 0.11862 *A

38)	1,1,1-Trichloroet	0.519	0.502	0.451	0.501	0.411	0.428	0.487	0.471	8.76
39)S	Dibromofluorometh	0.290	0.308	0.272	0.313	0.281	0.280	0.331	0.296	7.21
40)	Cyclohexane	0.312	0.289	0.261	0.272	0.289	0.295	0.268	0.284	6.33
41)	Isobutyl Alcohol	0.001	0.003	0.004	0.003	0.004	0.003	0.007	0.004	45.97

---- Linear regression ---- Coefficient = 0.9990
Response Ratio = -0.00176 + 0.00358 *A

42)	n-Butyl Alcohol	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.002	29.20

---- Linear regression ---- Coefficient = 0.9995
Response Ratio = -0.00186 + 0.00219 *A

43)	1,1-Dichloroprope	0.373	0.369	0.335	0.360	0.332	0.343	0.347	0.351	4.65
44)	Carbon Tetrachlor	0.448	0.444	0.392	0.430	0.362	0.372	0.427	0.411	8.51
45)S	1,2-Dichloroethan	0.427	0.448	0.378	0.439	0.363	0.369	0.492	0.417	11.54
46)	Benzene	0.855	0.853	0.755	0.821	0.810	0.837	0.811	0.820	4.18
47)	1,2-Dichloroethan	0.500	0.516	0.445	0.507	0.416	0.435	0.512	0.476	8.85
48)	tert-amyl methyl	0.783	0.754	0.672	0.759	0.708	0.730	0.825	0.747	6.66
49)	Trichloroethene	0.415	0.337	0.263	0.289	0.270	0.273	0.561	0.344	31.94

---- Linear regression ---- Coefficient = 0.9998
Response Ratio = 0.00617 + 0.26928 *A

50)	Methylcyclohexane	0.266	0.289	0.242	0.252	0.266	0.276	0.259	0.264	5.81
51)	Methyl Methacryla	0.215	0.211	0.209	0.227	0.208	0.215	0.248	0.219	6.56
52)C	1,2-Dichloropropa	0.209	0.204	0.180	0.202	0.209	0.208	0.201	0.202	5.08
53)	Dibromomethane	0.199	0.209	0.180	0.206	0.186	0.191	0.189	0.194	5.49
54)	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002		0.002	13.52
55)	Bromodichlorometh	0.484	0.500	0.429	0.496	0.432	0.448	0.515	0.472	7.42
56)	2-Nitropropane	0.116	0.103	0.095	0.103	0.081	0.087	0.112	0.100	12.73
57)	2-Chloroethyl vin	0.096	0.093	0.091	0.110	0.117	0.118	0.103	0.104	10.58
58)	1-Bromo-2-Chloroe	0.306	0.289	0.257	0.293	0.300	0.306	0.312	0.295	6.22
59)	4-Methyl-2-pentan	0.209	0.193	0.167	0.192	0.189	0.195	0.221	0.195	8.57
60)	cis-1,3-Dichlorop	0.447	0.436	0.397	0.459	0.440	0.454	0.453	0.441	4.77
61) I	Chlorobenzene-d5	----------ISTD----------								
62)S	Toluene-d8	1.178	1.230	1.023	1.139	1.217	1.154	1.449	1.199	10.81
63)C	Toluene	1.404	1.380	1.192	1.307	1.357	1.342	1.404	1.341	5.53
64)	Ethyl Methacrylat	0.405	0.412	0.424	0.438	0.456	0.440	0.418	0.428	4.17
65)	trans-1,3-Dichlor	0.598	0.589	0.527	0.601	0.580	0.588	0.589	0.582	4.34
66)	1,1,2-Trichloroet	0.262	0.253	0.221	0.247	0.256	0.257	0.261	0.251	5.62
67)	Tetrachloroethene	0.454	0.447	0.386	0.403	0.411	0.410	0.441	0.422	6.08
68)	2-hexanone	0.202	0.184	0.167	0.192	0.192	0.198	0.210	0.192	7.18
69)	1,3-Dichloropropa	0.592	0.563	0.506	0.553	0.568	0.576	0.594	0.564	5.29

Initial Calibration Summary

Job Number: T39646 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

```
 70)  Dibromochlorometh 0.439 0.442 0.396 0.455 0.436 0.436 0.426 0.433   4.26
 71)  1,2-Dibromoethane 0.369 0.352 0.320 0.355 0.363 0.362 0.347 0.353   4.59
 72)  1-Chlorohexane    0.494 0.466 0.408 0.467 0.483 0.489 0.484 0.470   6.23
 73)P Chlorobenzene     0.905 0.902 0.792 0.890 0.888 0.893 0.959 0.890   5.59
 74)  1,1,1,2-Tetrachlo 0.417 0.407 0.345 0.400 0.367 0.370 0.388 0.385   6.65
 75)C Ethylbenzene      1.828 1.723 1.455 1.674 1.587 1.610 1.813 1.670   7.92
 76)  m,p-Xylene        1.397 1.341 1.150 1.311 1.218 1.250 1.329 1.285   6.53
 77)  o-Xylene          1.445 1.372 1.183 1.374 1.287 1.313 1.384 1.337   6.36
 78)  Styrene           0.951 0.957 0.850 0.985 0.989 1.005 0.918 0.951   5.60
 79)P Bromoform         0.333 0.299 0.283 0.329 0.304 0.305 0.302 0.308   5.74

 80) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 81)  Isopropylbenzene  2.385 2.318 1.989 2.162 2.329 2.406 2.256 2.264   6.45
 82)  Cyclohexanone     0.024 0.019 0.015 0.018 0.019 0.020 0.014 0.019  18.27
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.00109 + 0.01929 *A

 83)S 4-Bromofluorobenz 0.981 0.968 0.811 0.925 0.956 0.957 1.350 0.993  16.91
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.01304 + 0.95902 *A

 84)  Bromobenzene      0.882 0.820 0.729 0.783 0.805 0.833 0.814 0.809   5.81
 85)P 1,1,2,2-Tetrachlo 0.668 0.585 0.528 0.596 0.628 0.654 0.672 0.619   8.50
 86)  Trans-1,4-Dichlor 0.235 0.216 0.208 0.242 0.229 0.237 0.237 0.229   5.48
 87)  1,2,3-Trichloropr 0.254 0.228 0.212 0.229 0.231 0.240 0.257 0.236   6.71
 88)  n-Propylbenzene   3.311 3.163 2.714 2.992 3.085 3.232 3.226 3.103   6.48
 89)  2-Chlorotoluene   2.495 2.397 1.997 2.208 2.210 2.298 2.540 2.306   8.17
 90)  4-Chlorotoluene   2.348 2.138 1.868 2.078 2.102 2.181 2.367 2.155   7.90
 91)  1,3,5-Trimethylbe 2.203 2.104 1.819 1.999 2.063 2.128 2.057 2.053   5.91
 92)  Pentachloroethane 0.550 0.507 0.524 0.513 0.516 0.510 0.533 0.522   2.91
 93)  sec-Butylbenzene  2.424 2.274 1.961 2.173 2.232 2.346 2.443 2.264   7.33
 94)  1,3-Dichlorobenze 1.392 1.292 1.118 1.249 1.242 1.300 1.255 1.264   6.50
 95)  4-Isopropyltoluen 1.984 1.869 1.641 1.773 1.815 1.900 1.906 1.841   6.04
 96)  1,4-Dichlorobenze 1.392 1.361 1.177 1.318 1.281 1.329 1.255 1.302   5.50
 97)  tert-Butylbenzene 0.523 0.462 0.363 0.395 0.379 0.398 0.657 0.454  23.19
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = 0.00764 + 0.38073 *A

 98)  n-Butylbenzene    1.868 1.758 1.533 1.805 1.688 1.785 2.041 1.782   8.75
 99)  1,2-Dichlorobenze 1.255 1.189 1.039 1.235 1.139 1.192 1.254 1.186   6.50
100)  1,2,4-Trimethylbe 2.292 2.265 1.941 2.152 2.184 2.278 2.250 2.195   5.60
101)  Hexachloroethane  0.466 0.401 0.400 0.507 0.373 0.384 0.523 0.436  14.10
102)  1,2-Dibromo-3-Chl 0.155 0.115 0.099 0.129 0.096 0.100 0.150 0.121  20.48
             ---- Linear regression ----  Coefficient =  0.9955
               Response Ratio = 0.00644 + 0.09523 *A

103)  1,2,4-Trichlorobe 0.619 0.553 0.542 0.727 0.563 0.586 0.802 0.627  15.83
             ---- Linear regression ----  Coefficient =  0.9964
               Response Ratio = 0.02420 + 0.56362 *A

104)  Hexachlorobutadie 0.365 0.293 0.264 0.327 0.244 0.267 0.518 0.325  28.98
             ---- Linear regression ----  Coefficient =  0.9950
               Response Ratio = 0.01874 + 0.24470 *A

105)  Naphthalene       0.896 0.741 0.758 1.076 0.822 0.858 1.378 0.933  24.20
             ---- Linear regression ----  Coefficient =  0.9957
               Response Ratio = 0.03437 + 0.82381 *A

106)  1,2,3-Trichlorobe 0.420 0.324 0.301 0.404 0.305 0.317 0.633 0.386  30.77
             ---- Linear regression ----  Coefficient =  0.9959
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICC3547
Lab FileID: F019686.D

```
                Response Ratio = 0.01703 + 0.30448 *A


107) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
108)H TPH-GRO (C6-C10)  0.865 1.185 2.152 2.237 4.987 4.850 0.117 2.342  81.40
              ---- Linear regression ----  Coefficient =  0.9567
                Response Ratio = -79.72504 + 5.16970 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

          VF3547AP9G.M        Tue Sep 15 16:56:11 2009
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3548-ICC3547
Lab FileID: F019686.D

Response Factor Report GC/MS F

```
Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Tue Sep 15 16:21:04 2009
Response via : Initial Calibration

Calibration Files
1   =F019683.D   2   =F019684.D   3   =F019685.D   4   =F019686.D
7   =F019688.D   5   =F019687.D   8   =F019682.D

   Compound              1     2     3     4     7     5     8     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene          ----------------ISTD---------------------
2)  Dichlorodifluorom 0.274 0.296 0.255 0.348 0.253 0.248 0.291 0.281  12.57
3)P Chloromethane     0.234 0.229 0.183 0.347 0.247 0.235 0.356 0.261  24.68
           ---- Linear regression ----  Coefficient =  0.9906
             Response Ratio = 0.00644 + 0.24473 *A

4)C Vinyl Chloride    0.199 0.211 0.168 0.280 0.207 0.194 0.233 0.213  16.63
           ---- Linear regression ----  Coefficient =  0.9924
             Response Ratio = 0.00509 + 0.20439 *A

5)  Bromomethane      0.221 0.195 0.162 0.189 0.155 0.149 0.243 0.188  18.89
           ---- Linear regression ----  Coefficient =  0.9976
             Response Ratio = 0.00600 + 0.15275 *A

6)  Chloroethane      0.132 0.132 0.117 0.138 0.134 0.124 0.157 0.134   9.39
7)  Trichlorofluorome 0.455 0.440 0.401 0.450 0.412 0.386 0.493 0.434   8.47
8)  Acrolein          0.023 0.023 0.019 0.020 0.022 0.022 0.022 0.022   6.74
9)  Ethyl Ether       0.201 0.179 0.160 0.183 0.174 0.169 0.195 0.180   7.90
10)C 1,1-Dichloroethen 0.391 0.358 0.315 0.354 0.341 0.328 0.365 0.350   7.11
11)  Freon 113        0.249 0.256 0.218 0.221 0.221 0.205 0.207 0.225   8.65
12)  Acetone          0.120 0.082 0.062 0.071 0.062 0.064 0.171 0.090  45.59
           ---- Linear regression ----  Coefficient =  0.9994
             Response Ratio = 0.01355 + 0.06190 *A

13)  Iodomethane      0.406 0.398 0.370 0.428 0.363 0.370 0.382 0.388   6.05
14)  Methyl acetate   0.170 0.146 0.125 0.144 0.145 0.145 0.217 0.156  19.26
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = -0.00620 + 0.14558 *A

15)  Allyl Chloride   0.288 0.331 0.329 0.234 0.189 0.227       0.266  22.03
           ---- Quadratic regression ----  Coefficient =  0.9980
             Response Ratio = 0.00907 + 0.25660 *A + -0.01757 *A^2

16)  Carbon Disulfide 0.710 0.714 0.626 0.691 0.700 0.673 0.719 0.690   4.73
17)  Acetonitrile     0.103 0.157 0.041 0.041 0.059 0.050 0.175 0.090  63.38
           ---- Quadratic regression ----  Coefficient =  0.9977
             Response Ratio = 0.01091 + 0.03549 *A + 0.00225 *A^2

18)  Methylene Chlorid 0.392 0.323 0.275 0.307 0.290 0.291 0.499 0.340  23.58
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = 0.00382 + 0.28922 *A

19)  Tert Butyl Alcoho 0.022 0.020 0.018 0.022 0.019 0.020 0.024 0.021   9.78
20)  trans-1,2-Dichlor 0.341 0.338 0.306 0.340 0.320 0.316 0.325 0.327   4.18
21)  Acrylonitrile    0.060 0.057 0.052 0.055 0.063 0.062 0.061 0.058   6.89
22)  Methyl Tert Butyl 0.808 0.744 0.671 0.772 0.686 0.690 0.810 0.740   7.93
```

Initial Calibration Summary

Job Number: T39646 **Sample:** VF3548-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

23)	Hexane	0.194	0.197	0.165	0.165	0.180	0.180	0.181	0.180	7.09
24)P	1,1-Dichloroethan	0.441	0.445	0.373	0.434	0.398	0.388	0.410	0.413	6.80
25)	Vinyl acetate	0.534	0.522	0.460	0.536	0.501	0.492	0.580	0.518	7.36
26)	Di-isopropyl ethe	0.810	0.816	0.710	0.819	0.805	0.799	0.891	0.807	6.54
27)	Chloroprene	0.383	0.405	0.388	0.394	0.352	0.330	0.426	0.382	8.43
28)	Ethyl tert-butyl	0.794	0.813	0.731	0.848	0.766	0.773	0.828	0.793	5.07
29)	2,2-Dichloropropa	0.382	0.392	0.329	0.353	0.264	0.287	0.379	0.341	14.67
30)	cis-1,2-Dichloroe	0.307	0.292	0.267	0.295	0.273	0.266	0.287	0.284	5.45
31)	Ethyl Acetate	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
32)	2-Butanone	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
33)	Propionitrile	0.019	0.021	0.022	0.023	0.024	0.023	0.019	0.021	8.86
34)	Methacrylonitrile	0.209	0.173	0.168	0.177	0.163	0.164	0.260	0.188	18.90
35)	Bromochloromethan	0.147	0.143	0.136	0.154	0.139	0.140	0.125	0.141	6.37
36)C	Chloroform	0.605	0.573	0.515	0.590	0.490	0.508	0.547	0.547	8.08
37)	Tetrahydrofuran	0.119	0.088	0.125	0.145	0.119	0.120	0.175	0.127	21.05

---- Linear regression ---- Coefficient = 0.9980
Response Ratio = 0.00368 + 0.11862 *A

38)	1,1,1-Trichloroet	0.519	0.502	0.451	0.501	0.411	0.428	0.487	0.471	8.76
39)S	Dibromofluorometh	0.290	0.308	0.272	0.313	0.281	0.280	0.331	0.296	7.21
40)	Cyclohexane	0.312	0.289	0.261	0.272	0.289	0.295	0.268	0.284	6.33
41)	Isobutyl Alcohol	0.001	0.003	0.004	0.003	0.004	0.003	0.007	0.004	45.97

---- Linear regression ---- Coefficient = 0.9990
Response Ratio = -0.00176 + 0.00358 *A

42)	n-Butyl Alcohol	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.002	29.20

---- Linear regression ---- Coefficient = 0.9995
Response Ratio = -0.00186 + 0.00219 *A

43)	1,1-Dichloroprope	0.373	0.369	0.335	0.360	0.332	0.343	0.347	0.351	4.65
44)	Carbon Tetrachlor	0.448	0.444	0.392	0.430	0.362	0.372	0.427	0.411	8.51
45)S	1,2-Dichloroethan	0.427	0.448	0.378	0.439	0.363	0.369	0.492	0.417	11.54
46)	Benzene	0.855	0.853	0.755	0.821	0.810	0.837	0.811	0.820	4.18
47)	1,2-Dichloroethan	0.500	0.516	0.445	0.507	0.416	0.435	0.512	0.476	8.85
48)	tert-amyl methyl	0.783	0.754	0.672	0.759	0.708	0.730	0.825	0.747	6.66
49)	Trichloroethene	0.415	0.337	0.263	0.289	0.270	0.273	0.561	0.344	31.94

---- Linear regression ---- Coefficient = 0.9998
Response Ratio = 0.00617 + 0.26928 *A

50)	Methylcyclohexane	0.266	0.289	0.242	0.252	0.266	0.276	0.259	0.264	5.81
51)	Methyl Methacryla	0.215	0.211	0.209	0.227	0.208	0.215	0.248	0.219	6.56
52)C	1,2-Dichloropropa	0.209	0.204	0.180	0.202	0.209	0.208	0.201	0.202	5.08
53)	Dibromomethane	0.199	0.209	0.180	0.206	0.186	0.191	0.189	0.194	5.49
54)	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002		0.002	13.52
55)	Bromodichlorometh	0.484	0.500	0.429	0.496	0.432	0.448	0.515	0.472	7.42
56)	2-Nitropropane	0.116	0.103	0.095	0.103	0.081	0.087	0.112	0.100	12.73
57)	2-Chloroethyl vin	0.096	0.093	0.091	0.110	0.117	0.118	0.103	0.104	10.58
58)	1-Bromo-2-Chloroe	0.306	0.289	0.257	0.293	0.300	0.306	0.312	0.295	6.22
59)	4-Methyl-2-pentan	0.209	0.193	0.167	0.192	0.189	0.195	0.221	0.195	8.57
60)	cis-1,3-Dichlorop	0.447	0.436	0.397	0.459	0.440	0.454	0.453	0.441	4.77
61) I	Chlorobenzene-d5	----------ISTD----------								
62)S	Toluene-d8	1.178	1.230	1.023	1.139	1.217	1.154	1.449	1.199	10.81
63)C	Toluene	1.404	1.380	1.192	1.307	1.357	1.342	1.404	1.341	5.53
64)	Ethyl Methacrylat	0.405	0.412	0.424	0.438	0.456	0.440	0.418	0.428	4.17
65)	trans-1,3-Dichlor	0.598	0.589	0.527	0.601	0.580	0.588	0.589	0.582	4.34
66)	1,1,2-Trichloroet	0.262	0.253	0.221	0.247	0.256	0.257	0.261	0.251	5.62
67)	Tetrachloroethene	0.454	0.447	0.386	0.403	0.411	0.410	0.441	0.422	6.08
68)	2-hexanone	0.202	0.184	0.167	0.192	0.192	0.198	0.210	0.192	7.18
69)	1,3-Dichloropropa	0.592	0.563	0.506	0.553	0.568	0.576	0.594	0.564	5.29

Initial Calibration Summary

Job Number: T39646 **Sample:** VF3548-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

```
 70)  Dibromochlorometh 0.439 0.442 0.396 0.455 0.436 0.436 0.426 0.433   4.26
 71)  1,2-Dibromoethane 0.369 0.352 0.320 0.355 0.363 0.362 0.347 0.353   4.59
 72)  1-Chlorohexane    0.494 0.466 0.408 0.467 0.483 0.489 0.484 0.470   6.23
 73)P Chlorobenzene     0.905 0.902 0.792 0.890 0.888 0.893 0.959 0.890   5.59
 74)  1,1,1,2-Tetrachlo 0.417 0.407 0.345 0.400 0.367 0.370 0.388 0.385   6.65
 75)C Ethylbenzene      1.828 1.723 1.455 1.674 1.587 1.610 1.813 1.670   7.92
 76)  m,p-Xylene        1.397 1.341 1.150 1.311 1.218 1.250 1.329 1.285   6.53
 77)  o-Xylene          1.445 1.372 1.183 1.374 1.287 1.313 1.384 1.337   6.36
 78)  Styrene           0.951 0.957 0.850 0.985 0.989 1.005 0.918 0.951   5.60
 79)P Bromoform         0.333 0.299 0.283 0.329 0.304 0.305 0.302 0.308   5.74

 80) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 81)  Isopropylbenzene  2.385 2.318 1.989 2.162 2.329 2.406 2.256 2.264   6.45
 82)  Cyclohexanone     0.024 0.019 0.015 0.018 0.019 0.020 0.014 0.019  18.27
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.00109 + 0.01929 *A

 83)S 4-Bromofluorobenz 0.981 0.968 0.811 0.925 0.956 0.957 1.350 0.993  16.91
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.01304 + 0.95902 *A

 84)  Bromobenzene      0.882 0.820 0.729 0.783 0.805 0.833 0.814 0.809   5.81
 85)P 1,1,2,2-Tetrachlo 0.668 0.585 0.528 0.596 0.628 0.654 0.672 0.619   8.50
 86)  Trans-1,4-Dichlor 0.235 0.216 0.208 0.242 0.229 0.237 0.237 0.229   5.48
 87)  1,2,3-Trichloropr 0.254 0.228 0.212 0.229 0.231 0.240 0.257 0.236   6.71
 88)  n-Propylbenzene   3.311 3.163 2.714 2.992 3.085 3.232 3.226 3.103   6.48
 89)  2-Chlorotoluene   2.495 2.397 1.997 2.208 2.210 2.298 2.540 2.306   8.17
 90)  4-Chlorotoluene   2.348 2.138 1.868 2.078 2.102 2.181 2.367 2.155   7.90
 91)  1,3,5-Trimethylbe 2.203 2.104 1.819 1.999 2.063 2.128 2.057 2.053   5.91
 92)  Pentachloroethane 0.550 0.507 0.524 0.513 0.516 0.510 0.533 0.522   2.91
 93)  sec-Butylbenzene  2.424 2.274 1.961 2.173 2.232 2.346 2.443 2.264   7.33
 94)  1,3-Dichlorobenze 1.392 1.292 1.118 1.249 1.242 1.300 1.255 1.264   6.50
 95)  4-Isopropyltoluen 1.984 1.869 1.641 1.773 1.815 1.900 1.906 1.841   6.04
 96)  1,4-Dichlorobenze 1.392 1.361 1.177 1.318 1.281 1.329 1.255 1.302   5.50
 97)  tert-Butylbenzene 0.523 0.462 0.363 0.395 0.379 0.398 0.657 0.454  23.19
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = 0.00764 + 0.38073 *A

 98)  n-Butylbenzene    1.868 1.758 1.533 1.805 1.688 1.785 2.041 1.782   8.75
 99)  1,2-Dichlorobenze 1.255 1.189 1.039 1.235 1.139 1.192 1.254 1.186   6.50
100)  1,2,4-Trimethylbe 2.292 2.265 1.941 2.152 2.184 2.278 2.250 2.195   5.60
101)  Hexachloroethane  0.466 0.401 0.400 0.507 0.373 0.384 0.523 0.436  14.10
102)  1,2-Dibromo-3-Chl 0.155 0.115 0.099 0.129 0.096 0.100 0.150 0.121  20.48
             ---- Linear regression ----  Coefficient =  0.9955
               Response Ratio = 0.00644 + 0.09523 *A

103)  1,2,4-Trichlorobe 0.619 0.553 0.542 0.727 0.563 0.586 0.802 0.627  15.83
             ---- Linear regression ----  Coefficient =  0.9964
               Response Ratio = 0.02420 + 0.56362 *A

104)  Hexachlorobutadie 0.365 0.293 0.264 0.327 0.244 0.267 0.518 0.325  28.98
             ---- Linear regression ----  Coefficient =  0.9950
               Response Ratio = 0.01874 + 0.24470 *A

105)  Naphthalene       0.896 0.741 0.758 1.076 0.822 0.858 1.378 0.933  24.20
             ---- Linear regression ----  Coefficient =  0.9957
               Response Ratio = 0.03437 + 0.82381 *A

106)  1,2,3-Trichlorobe 0.420 0.324 0.301 0.404 0.305 0.317 0.633 0.386  30.77
             ---- Linear regression ----  Coefficient =  0.9959
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICC3547
Lab FileID: F019686.D

```
                Response Ratio = 0.01703 + 0.30448 *A


107) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
108)H TPH-GRO (C6-C10)  0.865 1.185 2.152 2.237 4.987 4.850 0.117 2.342  81.40
              ---- Linear regression ----  Coefficient =  0.9567
                Response Ratio = -79.72504 + 5.16970 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

          VF3547AP9G.M        Tue Sep 15 16:56:11 2009
```

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3547-ICV3547
Lab FileID: F019690.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 16:21:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	144	0.00	10.67
2		Dichlorodifluoromethane	0.281	0.176	37.4#	73	0.00	4.67
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	35.598	11.0	94	0.00	5.06
4	C	Vinyl Chloride	40.000	36.210	9.5	98	0.00	5.28
5		Bromomethane	40.000	38.529	3.7	118	0.01	5.88
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.116	13.4	121	0.01	6.03
7		Trichlorofluoromethane	0.434	0.341	21.4#	109	0.00	6.37
8		Acrolein	0.022	0.023	-4.5	165	0.00	8.21
9		Ethyl Ether	0.180	0.152	15.6	119	0.00	6.67
10	C	1,1-Dichloroethene	0.350	0.347	0.9	141	0.00	7.12
11		Freon 113	0.225	0.225	0.0	147	0.00	7.01
			Amount	Calc.	%Drift			
12		Acetone	200.000	197.040	1.5	131	0.00	7.15
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.417	-7.5	140	0.00	7.43
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	198.504	0.7	143	0.00	7.51
15		Allyl Chloride	40.000	35.771	10.6	141	0.00	7.56
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.757	-9.7	158	0.00	7.55
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	207.907	-107.9#	350	0.07	7.62
18		Methylene Chloride	40.000	39.626	0.9	136	0.00	7.79
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.019	9.5	127	0.01	7.71
20		trans-1,2-Dichloroethene	0.327	0.336	-2.8	142	0.00	8.05
21		Acrylonitrile	0.058	0.063	-8.6	165	0.00	8.11
22		Methyl Tert Butyl Ether	0.740	0.704	4.9	131	0.00	7.94
23		Hexane	0.180	0.196	-8.9	172	0.01	8.22
24	P	1,1-Dichloroethane	0.413	0.398	3.6	132	0.00	8.61
25		Vinyl acetate	0.518	0.506	2.3	136	0.00	8.52
26		Di-isopropyl ether	0.807	0.806	0.1	142	0.00	8.44

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICV3547
Lab FileID: F019690.D

27		Chloroprene	0.382	0.382	0.0	140	0.01	8.68
28		Ethyl tert-butyl ether	0.793	0.756	4.7	128	0.00	8.88
29		2,2-Dichloropropane	0.341	0.292	14.4	119	0.00	9.30
30		cis-1,2-Dichloroethene	0.284	0.269	5.3	131	0.01	9.33
31		Ethyl Acetate	0.279	0.280	-0.4	136	0.00	9.21
32		2-Butanone	0.279	0.280	-0.4	136	0.00	9.21
33		Propionitrile	0.021	0.044	-109.5#	279#	0.00	9.45
34		Methacrylonitrile	0.188	1.337	-611.2#	1085#	0.00	9.60
35		Bromochloromethane	0.141	0.139	1.4	130	0.00	9.64
36	C	Chloroform	0.547	0.502	8.2	122	0.00	9.65
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	39.305	1.7	120	0.00	9.21
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.419	11.0	120	0.01	9.92
39	S	Dibromofluoromethane	0.296	0.327	-10.5	151	0.00	9.87
40		Cyclohexane	0.284	0.307	-8.1	163	0.00	9.93
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	1485.968	-85.7#	284	0.01	10.02
42		n-Butyl Alcohol	800.000	1436.926	-79.6#	283	0.00	10.81
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.335	4.6	134	0.00	10.08
44		Carbon Tetrachloride	0.411	0.363	11.7	121	0.00	10.08
45	S	1,2-Dichloroethane-d4	0.417	0.431	-3.4	141	0.00	10.34
46		Benzene	0.820	0.832	-1.5	146	0.01	10.37
47		1,2-Dichloroethane	0.476	0.424	10.9	120	0.00	10.44
48		tert-amyl methyl ether	0.747	0.699	6.4	133	0.00	10.31
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	39.230	1.9	135	0.00	11.12
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.278	-5.3	159	0.00	11.30
51		Methyl Methacrylate	0.219	0.210	4.1	133	0.01	11.37
52	C	1,2-Dichloropropane	0.202	0.208	-3.0	148	0.01	11.47
53		Dibromomethane	0.194	0.185	4.6	129	0.00	11.66
54		1,4-Dioxane	0.002	0.002	0.0	146	0.00	11.54
55		Bromodichloromethane	0.472	0.415	12.1	120	0.00	11.77
56		2-Nitropropane	0.100	0.091	9.0	127	0.00	12.09
57		2-Chloroethyl vinyl ether	0.104	0.108	-3.8	141	0.00	12.01
58		1-Bromo-2-Chloroethane	0.295	0.304	-3.1	149	0.00	12.26
59		4-Methyl-2-pentanone	0.195	0.195	0.0	146	0.00	12.39
60		cis-1,3-Dichloropropene	0.441	0.436	1.1	137	0.00	12.31
61	I	Chlorobenzene-d5	1.000	1.000	0.0	140	0.00	14.64
62	S	Toluene-d8	1.199	1.411	-17.7	173	0.00	12.62
63	C	Toluene	1.341	1.348	-0.5	144	0.01	12.72
64		Ethyl Methacrylate	0.428	0.407	4.9	130	0.01	12.90
65		trans-1,3-Dichloropropene	0.582	0.593	-1.9	138	0.00	13.02
66		1,1,2-Trichloroethane	0.251	0.246	2.0	139	0.01	13.30
67		Tetrachloroethene	0.422	0.397	5.9	138	0.00	13.44
68		2-hexanone	0.192	0.188	2.1	137	0.01	13.46
69		1,3-Dichloropropane	0.564	0.541	4.1	137	0.00	13.55
70		Dibromochloromethane	0.433	0.409	5.5	126	0.00	13.86
71		1,2-Dibromoethane	0.353	0.351	0.6	139	0.00	14.10
72		1-Chlorohexane	0.470	0.478	-1.7	143	0.00	14.43
73	P	Chlorobenzene	0.890	0.890	0.0	140	0.01	14.69

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICV3547
Lab FileID: F019690.D

74		1,1,1,2-Tetrachloroethane	0.385	0.359	6.8	126	0.00	14.76
75	C	Ethylbenzene	1.670	1.583	5.2	132	0.00	14.70
76		m,p-Xylene	1.285	1.243	3.3	133	0.01	14.85
77		o-Xylene	1.337	1.347	-0.7	137	0.00	15.43
78		Styrene	0.951	0.971	-2.1	138	0.00	15.45
79	P	Bromoform	0.308	0.297	3.6	126	0.00	15.85
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00	17.83
81		Isopropylbenzene	2.264	2.384	-5.3	145	0.01	15.86
		----------	Amount	Calc.	%Drift	----------		
82		Cyclohexanone	200.000	353.971	-77.0#	243	0.01	16.19
83	S	4-Bromofluorobenzene	40.000	45.977	-14.9	154	0.01	16.20
		----------	AvgRF	CCRF	%Dev	----------		
84		Bromobenzene	0.809	0.800	1.1	134	0.01	16.47
85	P	1,1,2,2-Tetrachloroethane	0.619	0.616	0.5	136	0.00	16.33
86		Trans-1,4-Dichloro-2-Bute	0.229	0.222	3.1	121	0.00	16.40
87		1,2,3-Trichloropropane	0.236	0.206	12.7	118	0.00	16.46
88		n-Propylbenzene	3.103	3.105	-0.1	136	0.00	16.40
89		2-Chlorotoluene	2.306	2.220	3.7	132	0.01	16.66
90		4-Chlorotoluene	2.155	2.096	2.7	132	0.00	16.80
91		1,3,5-Trimethylbenzene	2.053	2.061	-0.4	135	0.00	16.60
92		Pentachloroethane	0.522	0.460	11.9	118	0.00	17.27
93		sec-Butylbenzene	2.264	2.278	-0.6	137	0.01	17.40
94		1,3-Dichlorobenzene	1.264	1.252	0.9	131	0.00	17.74
95		4-Isopropyltoluene	1.841	1.809	1.7	134	0.00	17.55
96		1,4-Dichlorobenzene	1.302	1.290	0.9	128	0.00	17.87
		----------	Amount	Calc.	%Drift	----------		
97		tert-Butylbenzene	40.000	39.698	0.8	129	0.00	17.39
		----------	AvgRF	CCRF	%Dev	----------		
98		n-Butylbenzene	1.782	1.672	6.2	121	0.00	18.15
99		1,2-Dichlorobenzene	1.186	1.152	2.9	122	0.01	18.46
100		1,2,4-Trimethylbenzene	2.195	2.135	2.7	130	0.01	17.17
101		Hexachloroethane	0.436	0.423	3.0	109	0.01	18.78
		----------	Amount	Calc.	%Drift	----------		
102		1,2-Dibromo-3-Chloropropa	40.000	37.188	7.0	98	0.01	19.61
103		1,2,4-Trichlorobenzene	40.000	39.020	2.4	105	0.00	20.82
104		Hexachlorobutadiene	40.000	41.517	-3.8	111	0.00	20.90
105		Naphthalene	40.000	40.053	-0.1	106	0.01	21.29
106		1,2,3-Trichlorobenzene	40.000	41.433	-3.6	109	0.00	21.69
		----------	AvgRF	CCRF	%Dev	----------		
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	131	0.00	17.83
		----------	Amount	Calc.	%Drift	----------		
108	H	TPH-GRO (C6-C10)	4000.000	2610.987	34.7#	139	0.00	12.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F019686.D VF3547AP9G.M Tue Sep 15 16:55:53 2009

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3548-ICV3547
Lab FileID: F019690.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 16:21:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	144	0.00	10.67
2	Dichlorodifluoromethane	0.281	0.176	37.4#	73	0.00	4.67
	----------	Amount	Calc.	%Drift		----------	
3 P	Chloromethane	40.000	35.598	11.0	94	0.00	5.06
4 C	Vinyl Chloride	40.000	36.210	9.5	98	0.00	5.28
5	Bromomethane	40.000	38.529	3.7	118	0.01	5.88
	----------	AvgRF	CCRF	%Dev		----------	
6	Chloroethane	0.134	0.116	13.4	121	0.01	6.03
7	Trichlorofluoromethane	0.434	0.341	21.4#	109	0.00	6.37
8	Acrolein	0.022	0.023	-4.5	165	0.00	8.21
9	Ethyl Ether	0.180	0.152	15.6	119	0.00	6.67
10 C	1,1-Dichloroethene	0.350	0.347	0.9	141	0.00	7.12
11	Freon 113	0.225	0.225	0.0	147	0.00	7.01
	----------	Amount	Calc.	%Drift		----------	
12	Acetone	200.000	197.040	1.5	131	0.00	7.15
	----------	AvgRF	CCRF	%Dev		----------	
13	Iodomethane	0.388	0.417	-7.5	140	0.00	7.43
	----------	Amount	Calc.	%Drift		----------	
14	Methyl acetate	200.000	198.504	0.7	143	0.00	7.51
15	Allyl Chloride	40.000	35.771	10.6	141	0.00	7.56
	----------	AvgRF	CCRF	%Dev		----------	
16	Carbon Disulfide	0.690	0.757	-9.7	158	0.00	7.55
	----------	Amount	Calc.	%Drift		----------	
17	Acetonitrile	100.000	207.907	-107.9#	350	0.07	7.62
18	Methylene Chloride	40.000	39.626	0.9	136	0.00	7.79
	----------	AvgRF	CCRF	%Dev		----------	
19	Tert Butyl Alcohol	0.021	0.019	9.5	127	0.01	7.71
20	trans-1,2-Dichloroethene	0.327	0.336	-2.8	142	0.00	8.05
21	Acrylonitrile	0.058	0.063	-8.6	165	0.00	8.11
22	Methyl Tert Butyl Ether	0.740	0.704	4.9	131	0.00	7.94
23	Hexane	0.180	0.196	-8.9	172	0.01	8.22
24 P	1,1-Dichloroethane	0.413	0.398	3.6	132	0.00	8.61
25	Vinyl acetate	0.518	0.506	2.3	136	0.00	8.52
26	Di-isopropyl ether	0.807	0.806	0.1	142	0.00	8.44

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICV3547
Lab FileID: F019690.D

27		Chloroprene	0.382	0.382	0.0	140	0.01	8.68
28		Ethyl tert-butyl ether	0.793	0.756	4.7	128	0.00	8.88
29		2,2-Dichloropropane	0.341	0.292	14.4	119	0.00	9.30
30		cis-1,2-Dichloroethene	0.284	0.269	5.3	131	0.01	9.33
31		Ethyl Acetate	0.279	0.280	-0.4	136	0.00	9.21
32		2-Butanone	0.279	0.280	-0.4	136	0.00	9.21
33		Propionitrile	0.021	0.044	-109.5#	279#	0.00	9.45
34		Methacrylonitrile	0.188	1.337	-611.2#	1085#	0.00	9.60
35		Bromochloromethane	0.141	0.139	1.4	130	0.00	9.64
36	C	Chloroform	0.547	0.502	8.2	122	0.00	9.65
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	39.305	1.7	120	0.00	9.21
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.419	11.0	120	0.01	9.92
39	S	Dibromofluoromethane	0.296	0.327	-10.5	151	0.00	9.87
40		Cyclohexane	0.284	0.307	-8.1	163	0.00	9.93
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	1485.968	-85.7#	284	0.01	10.02
42		n-Butyl Alcohol	800.000	1436.926	-79.6#	283	0.00	10.81
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.335	4.6	134	0.00	10.08
44		Carbon Tetrachloride	0.411	0.363	11.7	121	0.00	10.08
45	S	1,2-Dichloroethane-d4	0.417	0.431	-3.4	141	0.00	10.34
46		Benzene	0.820	0.832	-1.5	146	0.01	10.37
47		1,2-Dichloroethane	0.476	0.424	10.9	120	0.00	10.44
48		tert-amyl methyl ether	0.747	0.699	6.4	133	0.00	10.31
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	39.230	1.9	135	0.00	11.12
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.278	-5.3	159	0.00	11.30
51		Methyl Methacrylate	0.219	0.210	4.1	133	0.01	11.37
52	C	1,2-Dichloropropane	0.202	0.208	-3.0	148	0.01	11.47
53		Dibromomethane	0.194	0.185	4.6	129	0.00	11.66
54		1,4-Dioxane	0.002	0.002	0.0	146	0.00	11.54
55		Bromodichloromethane	0.472	0.415	12.1	120	0.00	11.77
56		2-Nitropropane	0.100	0.091	9.0	127	0.00	12.09
57		2-Chloroethyl vinyl ether	0.104	0.108	-3.8	141	0.00	12.01
58		1-Bromo-2-Chloroethane	0.295	0.304	-3.1	149	0.00	12.26
59		4-Methyl-2-pentanone	0.195	0.195	0.0	146	0.00	12.39
60		cis-1,3-Dichloropropene	0.441	0.436	1.1	137	0.00	12.31
61	I	Chlorobenzene-d5	1.000	1.000	0.0	140	0.00	14.64
62	S	Toluene-d8	1.199	1.411	-17.7	173	0.00	12.62
63	C	Toluene	1.341	1.348	-0.5	144	0.01	12.72
64		Ethyl Methacrylate	0.428	0.407	4.9	130	0.01	12.90
65		trans-1,3-Dichloropropene	0.582	0.593	-1.9	138	0.00	13.02
66		1,1,2-Trichloroethane	0.251	0.246	2.0	139	0.01	13.30
67		Tetrachloroethene	0.422	0.397	5.9	138	0.00	13.44
68		2-hexanone	0.192	0.188	2.1	137	0.01	13.46
69		1,3-Dichloropropane	0.564	0.541	4.1	137	0.00	13.55
70		Dibromochloromethane	0.433	0.409	5.5	126	0.00	13.86
71		1,2-Dibromoethane	0.353	0.351	0.6	139	0.00	14.10
72		1-Chlorohexane	0.470	0.478	-1.7	143	0.00	14.43
73	P	Chlorobenzene	0.890	0.890	0.0	140	0.01	14.69

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICV3547
Lab FileID: F019690.D

74		1,1,1,2-Tetrachloroethane	0.385	0.359	6.8	126	0.00	14.76
75	C	Ethylbenzene	1.670	1.583	5.2	132	0.00	14.70
76		m,p-Xylene	1.285	1.243	3.3	133	0.01	14.85
77		o-Xylene	1.337	1.347	-0.7	137	0.00	15.43
78		Styrene	0.951	0.971	-2.1	138	0.00	15.45
79	P	Bromoform	0.308	0.297	3.6	126	0.00	15.85
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00	17.83
81		Isopropylbenzene	2.264	2.384	-5.3	145	0.01	15.86
		----------	Amount	Calc.	%Drift	----------		
82		Cyclohexanone	200.000	353.971	-77.0#	243	0.01	16.19
83	S	4-Bromofluorobenzene	40.000	45.977	-14.9	154	0.01	16.20
		----------	AvgRF	CCRF	%Dev	----------		
84		Bromobenzene	0.809	0.800	1.1	134	0.01	16.47
85	P	1,1,2,2-Tetrachloroethane	0.619	0.616	0.5	136	0.00	16.33
86		Trans-1,4-Dichloro-2-Bute	0.229	0.222	3.1	121	0.00	16.40
87		1,2,3-Trichloropropane	0.236	0.206	12.7	118	0.00	16.46
88		n-Propylbenzene	3.103	3.105	-0.1	136	0.00	16.40
89		2-Chlorotoluene	2.306	2.220	3.7	132	0.01	16.66
90		4-Chlorotoluene	2.155	2.096	2.7	132	0.00	16.80
91		1,3,5-Trimethylbenzene	2.053	2.061	-0.4	135	0.00	16.60
92		Pentachloroethane	0.522	0.460	11.9	118	0.00	17.27
93		sec-Butylbenzene	2.264	2.278	-0.6	137	0.01	17.40
94		1,3-Dichlorobenzene	1.264	1.252	0.9	131	0.00	17.74
95		4-Isopropyltoluene	1.841	1.809	1.7	134	0.00	17.55
96		1,4-Dichlorobenzene	1.302	1.290	0.9	128	0.00	17.87
		----------	Amount	Calc.	%Drift	----------		
97		tert-Butylbenzene	40.000	39.698	0.8	129	0.00	17.39
		----------	AvgRF	CCRF	%Dev	----------		
98		n-Butylbenzene	1.782	1.672	6.2	121	0.00	18.15
99		1,2-Dichlorobenzene	1.186	1.152	2.9	122	0.01	18.46
100		1,2,4-Trimethylbenzene	2.195	2.135	2.7	130	0.01	17.17
101		Hexachloroethane	0.436	0.423	3.0	109	0.01	18.78
		----------	Amount	Calc.	%Drift	----------		
102		1,2-Dibromo-3-Chloropropa	40.000	37.188	7.0	98	0.01	19.61
103		1,2,4-Trichlorobenzene	40.000	39.020	2.4	105	0.00	20.82
104		Hexachlorobutadiene	40.000	41.517	-3.8	111	0.00	20.90
105		Naphthalene	40.000	40.053	-0.1	106	0.01	21.29
106		1,2,3-Trichlorobenzene	40.000	41.433	-3.6	109	0.00	21.69
		----------	AvgRF	CCRF	%Dev	----------		
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	131	0.00	17.83
		----------	Amount	Calc.	%Drift	----------		
108	H	TPH-GRO (C6-C10)	4000.000	2610.987	34.7#	139	0.00	12.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F019686.D VF3547AP9G.M Tue Sep 15 16:55:53 2009

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3599-CC3547
Lab FileID: F020700.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3599\F020700.D Vial: 2
Acq On : 13 Oct 2009 9:31 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	10.62
2		Dichlorodifluoromethane	0.281	0.240	14.6	95	0.03	4.65
			Amount	Calc.	%Drift			
3	P	Chloromethane	20.000	14.391	28.0#	106	0.00	5.00
4	C	Vinyl Chloride	20.000	17.095	14.5	112	-0.02	5.22
5		Bromomethane	20.000	25.071	-25.4#	129	0.00	5.81
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.140	-4.5	121	0.00	5.97
7		Trichlorofluoromethane	0.434	0.397	8.5	100	0.00	6.32
8		Acrolein	0.022	0.022	0.0	114	0.00	8.16
9		Ethyl Ether	0.180	0.192	-6.7	121	0.00	6.61
10	C	1,1-Dichloroethene	0.350	0.427	-22.0#	136	0.00	7.06
11		Freon 113	0.225	0.272	-20.9#	126	0.00	6.95
			Amount	Calc.	%Drift			
12		Acetone	100.000	116.036	-16.0	127	0.00	7.10
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.502	-29.4#	136	0.00	7.37
			Amount	Calc.	%Drift			
14		Methyl acetate	100.000	115.271	-15.3	133	0.00	7.46
15		Allyl Chloride	20.000	24.114	-20.6#	98	0.00	7.51
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.816	-18.3	131	0.01	7.51
			Amount	Calc.	%Drift			
17		Acetonitrile	50.000	64.764	-29.5#	148	0.00	7.51
18		Methylene Chloride	20.000	23.994	-20.0	131	0.00	7.73
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.024	-14.3	132	0.00	7.65
20		trans-1,2-Dichloroethene	0.327	0.389	-19.0	128	0.00	7.99
21		Acrylonitrile	0.058	0.062	-6.9	120	0.00	8.05
22		Methyl Tert Butyl Ether	0.740	0.850	-14.9	128	0.00	7.89
23		Hexane	0.180	0.187	-3.9	114	0.00	8.16
24	P	1,1-Dichloroethane	0.413	0.466	-12.8	126	0.00	8.56
25		Vinyl acetate	0.518	0.589	-13.7	129	0.00	8.47
26		Di-isopropyl ether	0.807	0.863	-6.9	122	0.00	8.39

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3599-CC3547
Lab FileID: F020700.D

27		Chloroprene	0.382	0.458	-19.9	119	0.01	8.63
28		Ethyl tert-butyl ether	0.793	0.924	-16.5	127	0.00	8.83
29		2,2-Dichloropropane	0.341	0.346	-1.5	106	0.00	9.25
30		cis-1,2-Dichloroethene	0.284	0.311	-9.5	117	0.00	9.27
31		Ethyl Acetate	0.279	0.329	-17.9	130	0.00	9.16
32		2-Butanone	0.279	0.329	-17.9	130	0.00	9.16
33		Propionitrile	0.021	0.030	-42.9#	136	0.00	9.40
34		Methacrylonitrile	0.188	0.216	-14.9	129	0.00	9.55
35		Bromochloromethane	0.141	0.170	-20.6#	126	0.00	9.59
36	C	Chloroform	0.547	0.613	-12.1	120	0.00	9.60
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	20.000	24.900	-24.5#	126	0.00	9.16
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.509	-8.1	114	0.00	9.86
39	S	Dibromofluoromethane	0.296	0.303	-2.4	112	0.00	9.81
40		Cyclohexane	0.284	0.312	-9.9	121	0.00	9.88
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	400.000	455.355	-13.8	111	0.01	9.97
42		n-Butyl Alcohol	400.000	477.809	-19.5	137	0.00	10.76
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.399	-13.7	120	0.00	10.03
44		Carbon Tetrachloride	0.411	0.466	-13.4	120	0.00	10.03
		----------	Amount	Calc.	%Drift	----------		
45	S	1,2-Dichloroethane-d4	20.000	19.931	0.3	106	0.00	10.29
		----------	AvgRF	CCRF	%Dev	----------		
46		Benzene	0.820	0.959	-17.0	128	0.00	10.31
47		1,2-Dichloroethane	0.476	0.520	-9.2	118	0.00	10.39
48		tert-amyl methyl ether	0.747	0.889	-19.0	133	0.00	10.26
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	20.000	21.999	-10.0	119	0.00	11.07
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.277	-4.9	115	0.00	11.25
51		Methyl Methacrylate	0.219	0.297	-35.6#	143	0.00	11.31
52	C	1,2-Dichloropropane	0.202	0.224	-10.9	125	0.00	11.41
53		Dibromomethane	0.194	0.225	-16.0	126	0.00	11.61
54		1,4-Dioxane	0.002	0.003	-50.0#	139	0.00	11.49
55		Bromodichloromethane	0.472	0.498	-5.5	117	0.00	11.72
56		2-Nitropropane	0.100	0.113	-13.0	119	0.00	12.04
57		2-Chloroethyl vinyl ether	0.104	0.138	-32.7#	153	0.00	11.96
58		1-Bromo-2-Chloroethane	0.295	0.240	18.6	94	0.00	12.21
59		4-Methyl-2-pentanone	0.195	0.218	-11.8	131	0.00	12.34
60		cis-1,3-Dichloropropene	0.441	0.494	-12.0	125	0.00	12.26
61	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	14.59
		----------	Amount	Calc.	%Drift	----------		
62	S	Toluene-d8	20.000	19.332	3.3	112	0.00	12.57
		----------	AvgRF	CCRF	%Dev	----------		
63	C	Toluene	1.341	1.416	-5.6	125	0.00	12.66
64		Ethyl Methacrylate	0.428	0.557	-30.1#	138	0.01	12.85
65		trans-1,3-Dichloropropene	0.582	0.621	-6.7	124	0.00	12.97

Continuing Calibration Summary

Job Number: T39646 **Sample:** VF3599-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020700.D
Project: Vertellus-Provo

66		1,1,2-Trichloroethane	0.251	0.268	-6.8	127	0.00	13.24
67		Tetrachloroethene	0.422	0.529	-25.4#	144	0.00	13.39
68		2-hexanone	0.192	0.205	-6.8	129	0.00	13.40
69		1,3-Dichloropropane	0.564	0.588	-4.3	122	0.00	13.50
70		Dibromochloromethane	0.433	0.455	-5.1	121	0.00	13.81
71		1,2-Dibromoethane	0.353	0.384	-8.8	126	0.00	14.05
72		1-Chlorohexane	0.470	0.458	2.6	118	0.00	14.38
73	P	Chlorobenzene	0.890	0.933	-4.8	124	0.00	14.63
74		1,1,1,2-Tetrachloroethane	0.385	0.406	-5.5	124	0.00	14.71
75	C	Ethylbenzene	1.670	1.686	-1.0	122	0.00	14.64
76		m,p-Xylene	1.285	1.332	-3.7	122	0.00	14.79
77		o-Xylene	1.337	1.379	-3.1	123	0.00	15.38
78		Styrene	0.951	1.020	-7.3	126	0.00	15.40
79	P	Bromoform	0.308	0.329	-6.8	122	0.00	15.80
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	17.78
81		Isopropylbenzene	2.264	2.189	3.3	115	0.01	15.81
		----------	Amount	Calc.	%Drift	----------		
82		Cyclohexanone	100.000	185.279	-85.3#	239	0.01	16.14
83	S	4-Bromofluorobenzene	20.000	19.002	5.0	113	0.00	16.14
		----------	AvgRF	CCRF	%Dev	----------		
84		Bromobenzene	0.809	0.848	-4.8	122	0.00	16.41
85	P	1,1,2,2-Tetrachloroethane	0.619	0.605	2.3	120	0.00	16.28
86		Trans-1,4-Dichloro-2-Bute	0.229	0.238	-3.9	120	0.01	16.36
87		1,2,3-Trichloropropane	0.236	0.246	-4.2	122	0.00	16.41
88		n-Propylbenzene	3.103	2.964	4.5	114	0.00	16.35
89		2-Chlorotoluene	2.306	2.259	2.0	118	0.00	16.60
90		4-Chlorotoluene	2.155	2.100	2.6	118	0.00	16.75
91		1,3,5-Trimethylbenzene	2.053	1.972	3.9	113	0.00	16.55
92		Pentachloroethane	0.522	0.647	-23.9#	129	0.00	17.21
93		sec-Butylbenzene	2.264	2.070	8.6	110	0.00	17.34
94		1,3-Dichlorobenzene	1.264	1.268	-0.3	119	0.00	17.68
95		4-Isopropyltoluene	1.841	1.689	8.3	108	0.00	17.50
96		1,4-Dichlorobenzene	1.302	1.343	-3.1	119	0.00	17.81
		----------	Amount	Calc.	%Drift	----------		
97		tert-Butylbenzene	20.000	17.853	10.7	103	0.00	17.34
		----------	AvgRF	CCRF	%Dev	----------		
98		n-Butylbenzene	1.782	1.541	13.5	105	0.00	18.10
99		1,2-Dichlorobenzene	1.186	1.158	2.4	117	0.00	18.40
100		1,2,4-Trimethylbenzene	2.195	2.051	6.6	111	0.00	17.11
101		Hexachloroethane	0.436	0.438	-0.5	115	0.01	18.73
		----------	Amount	Calc.	%Drift	----------		
102		1,2-Dibromo-3-Chloropropa	20.000	12.920	35.4#	82	0.01	19.56
103		1,2,4-Trichlorobenzene	20.000	6.790	66.1#	49	0.00	20.76
104		Hexachlorobutadiene	20.000	12.113	39.4#	77	0.00	20.84
105		Naphthalene	20.000	3.553	82.2#	32	0.00	21.23
106		1,2,3-Trichlorobenzene	20.000	0.988	95.1#	20	0.00	21.63
		----------	AvgRF	CCRF	%Dev	----------		
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	105	0.00	17.78
		----------	Amount	Calc.	%Drift	----------		
108	H	TPH-GRO (C6-C10)	2000.000	1748.219	12.6	123	0.00	12.34

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3599-CC3547
Lab FileID: F020700.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 1
 F019685.D  VF3547AP9G.M       Wed Oct 14 13:35:50 2009
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Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3600-CC3547
Lab FileID: F020724.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3599\F020724.D Vial: 26
Acq On : 13 Oct 2009 9:43 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	126	0.02	10.64
2		Dichlorodifluoromethane	0.281	0.162	42.3#	58	0.02	4.64
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	30.477	23.8#	71	0.00	5.00
4	C	Vinyl Chloride	40.000	35.685	10.8	85	-0.02	5.22
5		Bromomethane	40.000	44.199	-10.5	118	0.00	5.82
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.136	-1.5	124	0.00	5.97
7		Trichlorofluoromethane	0.434	0.337	22.4#	94	0.02	6.34
8		Acrolein	0.022	0.020	9.1	122	0.00	8.17
9		Ethyl Ether	0.180	0.163	9.4	112	0.00	6.62
10	C	1,1-Dichloroethene	0.350	0.358	-2.3	127	-0.01	7.06
11		Freon 113	0.225	0.228	-1.3	130	0.00	6.96
			Amount	Calc.	%Drift			
12		Acetone	200.000	186.286	6.9	109	0.00	7.11
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.424	-9.3	125	0.00	7.37
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	207.832	-3.9	131	0.00	7.46
15		Allyl Chloride	40.000	39.230	1.9	134	0.00	7.51
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.700	-1.4	128	0.00	7.50
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	98.235	1.8	139	0.00	7.51
18		Methylene Chloride	40.000	41.816	-4.5	126	0.00	7.74
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.020	4.8	116	0.02	7.67
20		trans-1,2-Dichloroethene	0.327	0.332	-1.5	123	0.00	8.00
21		Acrylonitrile	0.058	0.059	-1.7	135	0.00	8.05
22		Methyl Tert Butyl Ether	0.740	0.722	2.4	118	0.00	7.90
23		Hexane	0.180	0.167	7.2	127	0.02	8.18
24	P	1,1-Dichloroethane	0.413	0.404	2.2	117	0.00	8.57
25		Vinyl acetate	0.518	0.505	2.5	119	0.00	8.48
26		Di-isopropyl ether	0.807	0.796	1.4	122	0.02	8.41

Continuing Calibration Summary

Job Number: T39646 **Sample:** VF3600-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020724.D
Project: Vertellus-Provo

27		Chloroprene	0.382	0.356	6.8	114	0.02	8.63
28		Ethyl tert-butyl ether	0.793	0.798	-0.6	118	0.00	8.84
29		2,2-Dichloropropane	0.341	0.244	28.4#	87	0.00	9.25
30		cis-1,2-Dichloroethene	0.284	0.277	2.5	118	0.02	9.28
31		Ethyl Acetate	0.279	0.292	-4.7	125	0.00	9.17
32		2-Butanone	0.279	0.292	-4.7	125	0.00	9.17
33		Propionitrile	0.021	0.026	-23.8#	145	0.00	9.41
34		Methacrylonitrile	0.188	0.171	9.0	122	0.00	9.56
35		Bromochloromethane	0.141	0.148	-5.0	121	0.02	9.61
36	C	Chloroform	0.547	0.499	8.8	106	0.00	9.61
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	38.659	3.4	104	0.00	9.17
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.405	14.0	102	0.02	9.87
39	S	Dibromofluoromethane	0.296	0.273	7.8	110	0.00	9.82
40		Cyclohexane	0.284	0.286	-0.7	133	0.02	9.89
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	840.803	-5.1	139	0.02	9.97
42		n-Butyl Alcohol	800.000	872.353	-9.0	148	0.02	10.78
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.336	4.3	118	0.00	10.04
44		Carbon Tetrachloride	0.411	0.351	14.6	103	0.02	10.05
		----------	Amount	Calc.	%Drift	----------		
45	S	1,2-Dichloroethane-d4	40.000	34.382	14.0	94	0.02	10.31
		----------	AvgRF	CCRF	%Dev	----------		
46		Benzene	0.820	0.880	-7.3	135	0.02	10.33
47		1,2-Dichloroethane	0.476	0.403	15.3	100	0.02	10.41
48		tert-amyl methyl ether	0.747	0.762	-2.0	126	0.00	10.27
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	40.149	-0.4	121	0.00	11.07
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.251	4.9	125	0.02	11.27
51		Methyl Methacrylate	0.219	0.212	3.2	118	0.02	11.33
52	C	1,2-Dichloropropane	0.202	0.211	-4.5	132	0.02	11.43
53		Dibromomethane	0.194	0.191	1.5	116	0.02	11.63
54		1,4-Dioxane	0.002	0.002	0.0	134	0.02	11.51
55		Bromodichloromethane	0.472	0.403	14.6	102	0.02	11.73
56		2-Nitropropane	0.100	0.080	20.0#	98	0.02	12.06
57		2-Chloroethyl vinyl ether	0.104	0.134	-28.8#	154	0.02	11.98
58		1-Bromo-2-Chloroethane	0.295	0.220	25.4#	94	0.00	12.22
59		4-Methyl-2-pentanone	0.195	0.187	4.1	123	0.00	12.34
60		cis-1,3-Dichloropropene	0.441	0.397	10.0	109	0.02	12.27
61	I	Chlorobenzene-d5	1.000	1.000	0.0	134	0.02	14.61
		----------	Amount	Calc.	%Drift	----------		
62	S	Toluene-d8	40.000	35.906	10.2	120	0.02	12.59
		----------	AvgRF	CCRF	%Dev	----------		
63	C	Toluene	1.341	1.245	7.2	127	0.02	12.68
64		Ethyl Methacrylate	0.428	0.396	7.5	121	0.03	12.87
65		trans-1,3-Dichloropropene	0.582	0.454	22.0#	101	0.02	12.98

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3600-CC3547
Lab FileID: F020724.D

66		1,1,2-Trichloroethane	0.251	0.231	8.0	125	0.03	13.27
67		Tetrachloroethene	0.422	0.406	3.8	135	0.02	13.41
68		2-hexanone	0.192	0.174	9.4	121	0.02	13.42
69		1,3-Dichloropropane	0.564	0.513	9.0	124	0.02	13.51
70		Dibromochloromethane	0.433	0.362	16.4	106	0.02	13.83
71		1,2-Dibromoethane	0.353	0.328	7.1	124	0.02	14.07
72		1-Chlorohexane	0.470	0.403	14.3	116	0.02	14.40
73	P	Chlorobenzene	0.890	0.824	7.4	124	0.02	14.65
74		1,1,1,2-Tetrachloroethane	0.385	0.330	14.3	110	0.02	14.72
75	C	Ethylbenzene	1.670	1.449	13.2	116	0.02	14.67
76		m,p-Xylene	1.285	1.123	12.6	115	0.03	14.81
77		o-Xylene	1.337	1.190	11.0	116	0.02	15.39
78		Styrene	0.951	0.942	0.9	128	0.02	15.41
79	P	Bromoform	0.308	0.249	19.2	101	0.02	15.82
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	0.02	17.80
81		Isopropylbenzene	2.264	1.941	14.3	112	0.03	15.83
			Amount	Calc.	%Drift			
82		Cyclohexanone	200.000	195.323	2.3	127	0.03	16.16
83	S	4-Bromofluorobenzene	40.000	34.473	13.8	109	0.02	16.16
			AvgRF	CCRF	%Dev			
84		Bromobenzene	0.809	0.734	9.3	117	0.02	16.43
85	P	1,1,2,2-Tetrachloroethane	0.619	0.542	12.4	114	0.02	16.30
86		Trans-1,4-Dichloro-2-Bute	0.229	0.053	76.9#	28#	0.02	16.37
87		1,2,3-Trichloropropane	0.236	0.203	14.0	111	0.02	16.43
88		n-Propylbenzene	3.103	2.535	18.3	106	0.02	16.37
89		2-Chlorotoluene	2.306	1.920	16.7	109	0.02	16.61
90		4-Chlorotoluene	2.155	1.802	16.4	108	0.02	16.76
91		1,3,5-Trimethylbenzene	2.053	1.727	15.9	108	0.02	16.57
92		Pentachloroethane	0.522	0.410	21.5#	100	0.02	17.23
93		sec-Butylbenzene	2.264	1.843	18.6	106	0.02	17.35
94		1,3-Dichlorobenzene	1.264	1.079	14.6	108	0.02	17.71
95		4-Isopropyltoluene	1.841	1.455	21.0#	103	0.02	17.52
96		1,4-Dichlorobenzene	1.302	1.142	12.3	108	0.02	17.83
			Amount	Calc.	%Drift			
97		tert-Butylbenzene	40.000	30.636	23.4#	95	0.02	17.35
			AvgRF	CCRF	%Dev			
98		n-Butylbenzene	1.782	1.364	23.5#	94	0.02	18.12
99		1,2-Dichlorobenzene	1.186	1.079	9.0	109	0.02	18.41
100		1,2,4-Trimethylbenzene	2.195	1.800	18.0	105	0.02	17.13
101		Hexachloroethane	0.436	0.289	33.7#	71	0.02	18.74
			Amount	Calc.	%Drift			
102		1,2-Dibromo-3-Chloropropa	40.000	21.386	46.5#	57	0.02	19.57
103		1,2,4-Trichlorobenzene	40.000	15.411	61.5#	43	0.00	20.78
104		Hexachlorobutadiene	40.000	24.191	39.5#	65	0.00	20.86
105		Naphthalene	40.000	70.078	-75.2#	173	0.00	21.24
106		1,2,3-Trichlorobenzene	40.000	6.027	84.9#	21	0.00	21.64
			AvgRF	CCRF	%Dev			
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	125	0.02	17.80
			Amount	Calc.	%Drift			
108	H	TPH-GRO (C6-C10)	4000.000	2299.094	42.5#	110	0.00	12.34

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3600-CC3547
Lab FileID: F020724.D

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   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    F019686.D  VF3547AP9G.M       Wed Oct 14 14:50:40 2009
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Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3601-CC3547
Lab FileID: F020748.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00	10.62
2		Dichlorodifluoromethane	0.281	0.215	23.5#	59	0.00	4.62
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	31.587	21.0#	56	-0.03	4.98
4	C	Vinyl Chloride	40.000	38.158	4.6	69	-0.04	5.20
5		Bromomethane	40.000	53.845	-34.6#	109	-0.02	5.80
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.153	-14.2	107	-0.02	5.95
7		Trichlorofluoromethane	0.434	0.438	-0.9	94	0.00	6.32
8		Acrolein	0.022	0.021	4.5	98	0.00	8.16
9		Ethyl Ether	0.180	0.172	4.4	90	-0.02	6.60
10	C	1,1-Dichloroethene	0.350	0.391	-11.7	106	-0.02	7.05
11		Freon 113	0.225	0.247	-9.8	108	-0.02	6.94
			Amount	Calc.	%Drift			
12		Acetone	200.000	202.645	-1.3	90	-0.01	7.09
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.463	-19.3	104	-0.02	7.36
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	209.706	-4.9	101	0.00	7.46
15		Allyl Chloride	40.000	60.260	-50.6#	150	0.00	7.50
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.728	-5.5	101	0.00	7.50
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	98.009	2.0	106	0.00	7.50
18		Methylene Chloride	40.000	42.146	-5.4	97	-0.02	7.72
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.022	-4.8	98	0.00	7.65
20		trans-1,2-Dichloroethene	0.327	0.356	-8.9	101	-0.01	7.99
21		Acrylonitrile	0.058	0.057	1.7	101	-0.01	8.05
22		Methyl Tert Butyl Ether	0.740	0.796	-7.6	99	0.00	7.89
23		Hexane	0.180	0.171	5.0	100	0.00	8.16
24	P	1,1-Dichloroethane	0.413	0.431	-4.4	96	0.00	8.56
25		Vinyl acetate	0.518	0.534	-3.1	96	0.00	8.47
26		Di-isopropyl ether	0.807	0.804	0.4	95	0.00	8.39

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3601-CC3547
Lab FileID: F020748.D

27		Chloroprene	0.382	0.398	-4.2	97	0.00	8.62
28		Ethyl tert-butyl ether	0.793	0.862	-8.7	98	0.00	8.83
29		2,2-Dichloropropane	0.341	0.316	7.3	86	0.00	9.25
30		cis-1,2-Dichloroethene	0.284	0.285	-0.4	93	0.00	9.27
31		Ethyl Acetate	0.279	0.300	-7.5	98	-0.01	9.15
32		2-Butanone	0.279	0.300	-7.5	98	-0.01	9.15
33		Propionitrile	0.021	0.026	-23.8#	109	-0.01	9.39
34		Methacrylonitrile	0.188	0.181	3.7	98	0.00	9.55
35		Bromochloromethane	0.141	0.157	-11.3	98	0.00	9.59
36	C	Chloroform	0.547	0.567	-3.7	92	0.00	9.60
		----------	Amount	Calc.	%Drift		----------	
37		Tetrahydrofuran	40.000	44.252	-10.6	90	-0.01	9.15
		----------	AvgRF	CCRF	%Dev		----------	
38		1,1,1-Trichloroethane	0.471	0.467	0.8	90	0.00	9.86
39	S	Dibromofluoromethane	0.296	0.329	-11.1	101	0.00	9.82
40		Cyclohexane	0.284	0.283	0.4	100	0.00	9.88
		----------	Amount	Calc.	%Drift		----------	
41		Isobutyl Alcohol	800.000	824.170	-3.0	104	0.00	9.96
42		n-Butyl Alcohol	800.000	822.994	-2.9	106	0.00	10.76
		----------	AvgRF	CCRF	%Dev		----------	
43		1,1-Dichloropropene	0.351	0.368	-4.8	99	0.00	10.03
44		Carbon Tetrachloride	0.411	0.412	-0.2	92	0.00	10.03
		----------	Amount	Calc.	%Drift		----------	
45	S	1,2-Dichloroethane-d4	40.000	45.971	-14.9	95	0.00	10.29
		----------	AvgRF	CCRF	%Dev		----------	
46		Benzene	0.820	0.892	-8.8	105	0.00	10.31
47		1,2-Dichloroethane	0.476	0.475	0.2	90	0.00	10.39
48		tert-amyl methyl ether	0.747	0.813	-8.8	103	0.00	10.26
		----------	Amount	Calc.	%Drift		----------	
49		Trichloroethene	40.000	42.453	-6.1	98	0.00	11.07
		----------	AvgRF	CCRF	%Dev		----------	
50		Methylcyclohexane	0.264	0.259	1.9	99	0.00	11.26
51		Methyl Methacrylate	0.219	0.230	-5.0	97	0.00	11.32
52	C	1,2-Dichloropropane	0.202	0.211	-4.5	101	0.00	11.42
53		Dibromomethane	0.194	0.210	-8.2	98	0.00	11.61
54		1,4-Dioxane	0.002	0.002	0.0	101	0.00	11.50
55		Bromodichloromethane	0.472	0.461	2.3	90	0.00	11.72
56		2-Nitropropane	0.100	0.098	2.0	92	0.00	12.04
57		2-Chloroethyl vinyl ether	0.104	0.139	-33.7#	122	0.00	11.97
58		1-Bromo-2-Chloroethane	0.295	0.220	25.4#	72	0.00	12.21
59		4-Methyl-2-pentanone	0.195	0.200	-2.6	100	0.00	12.34
60		cis-1,3-Dichloropropene	0.441	0.463	-5.0	97	0.00	12.27
61	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	14.60
		----------	Amount	Calc.	%Drift		----------	
62	S	Toluene-d8	40.000	40.479	-1.2	109	0.01	12.58
		----------	AvgRF	CCRF	%Dev		----------	
63	C	Toluene	1.341	1.265	5.7	104	0.00	12.67
64		Ethyl Methacrylate	0.428	0.412	3.7	101	0.00	12.85
65		trans-1,3-Dichloropropene	0.582	0.532	8.6	95	0.00	12.98

Continuing Calibration Summary

Job Number: T39646 **Sample:** VF3601-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020748.D
Project: Vertellus-Provo

66		1,1,2-Trichloroethane	0.251	0.245	2.4	107	0.00	13.25
67		Tetrachloroethene	0.422	0.402	4.7	107	0.00	13.40
68		2-hexanone	0.192	0.180	6.3	101	0.00	13.41
69		1,3-Dichloropropane	0.564	0.542	3.9	105	0.00	13.51
70		Dibromochloromethane	0.433	0.400	7.6	94	0.00	13.82
71		1,2-Dibromoethane	0.353	0.342	3.1	103	0.00	14.06
72		1-Chlorohexane	0.470	0.413	12.1	95	0.00	14.39
73	P	Chlorobenzene	0.890	0.836	6.1	101	0.00	14.64
74		1,1,1,2-Tetrachloroethane	0.385	0.355	7.8	95	0.00	14.72
75	C	Ethylbenzene	1.670	1.502	10.1	96	0.00	14.66
76		m,p-Xylene	1.285	1.170	8.9	96	0.02	14.81
77		o-Xylene	1.337	1.202	10.1	94	0.00	15.39
78		Styrene	0.951	0.917	3.6	100	0.00	15.41
79	P	Bromoform	0.308	0.278	9.7	91	0.00	15.81
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	17.79
81		Isopropylbenzene	2.264	1.873	17.3	90	0.02	15.82
		----------	Amount	Calc.	%Drift		----------	
82		Cyclohexanone	200.000	190.351	4.8	103	0.00	16.14
83	S	4-Bromofluorobenzene	40.000	38.181	4.5	101	0.02	16.16
		----------	AvgRF	CCRF	%Dev		----------	
84		Bromobenzene	0.809	0.722	10.8	95	0.02	16.43
85	P	1,1,2,2-Tetrachloroethane	0.619	0.520	16.0	90	0.02	16.30
86		Trans-1,4-Dichloro-2-Bute	0.229	0.147	35.8#	63	0.02	16.37
87		1,2,3-Trichloropropane	0.236	0.205	13.1	92	0.00	16.42
88		n-Propylbenzene	3.103	2.504	19.3	87	0.00	16.36
89		2-Chlorotoluene	2.306	1.897	17.7	89	0.02	16.62
90		4-Chlorotoluene	2.155	1.797	16.6	89	0.00	16.75
91		1,3,5-Trimethylbenzene	2.053	1.694	17.5	88	0.02	16.57
92		Pentachloroethane	0.522	0.457	12.5	92	0.00	17.23
93		sec-Butylbenzene	2.264	1.772	21.7#	84	0.02	17.35
94		1,3-Dichlorobenzene	1.264	1.083	14.3	90	0.00	17.70
95		4-Isopropyltoluene	1.841	1.429	22.4#	83	0.00	17.51
96		1,4-Dichlorobenzene	1.302	1.149	11.8	90	0.00	17.83
		----------	Amount	Calc.	%Drift		----------	
97		tert-Butylbenzene	40.000	32.267	19.3	83	0.00	17.34
		----------	AvgRF	CCRF	%Dev		----------	
98		n-Butylbenzene	1.782	1.367	23.3#	78	0.00	18.11
99		1,2-Dichlorobenzene	1.186	1.015	14.4	85	0.00	18.41
100		1,2,4-Trimethylbenzene	2.195	1.773	19.2	85	0.02	17.13
101		Hexachloroethane	0.436	0.303	30.5#	62	0.02	18.74
		----------	Amount	Calc.	%Drift		----------	
102		1,2-Dibromo-3-Chloropropa	40.000	25.039	37.4#	54	0.02	19.57
103		1,2,4-Trichlorobenzene	40.000	20.997	47.5#	46	0.01	20.78
104		Hexachlorobutadiene	40.000	30.416	24.0#	66	0.00	20.86
105		Naphthalene	40.000	25.019	37.5#	54	0.00	21.24
106		1,2,3-Trichlorobenzene	40.000	16.736	58.2#	38	0.00	21.64
		----------	AvgRF	CCRF	%Dev		----------	
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	103	0.00	17.79
		----------	Amount	Calc.	%Drift		----------	
108	H	TPH-GRO (C6-C10)	4000.000	2389.089	40.3#	97	0.00	12.34

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3601-CC3547
Lab FileID: F020748.D

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-----------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    F019686.D  VF3547AP9G.M       Thu Oct 15 09:39:46 2009
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Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3602-CC3547
Lab FileID: F020748.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D          Vial: 3
Acq On    : 14 Oct 2009  10:53 am                   Operator: AnjanaP
Sample    : cc3547-40                               Inst    : GC/MS F
Misc      : ms7105,vf3602,5,,,5,,water              Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Wed Oct 14 13:44:25 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00	10.62
2		Dichlorodifluoromethane	0.281	0.215	23.5#	59	0.00	4.62
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	31.587	21.0#	56	-0.03	4.98
4	C	Vinyl Chloride	40.000	38.158	4.6	69	-0.04	5.20
5		Bromomethane	40.000	53.845	-34.6#	109	-0.02	5.80
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.153	-14.2	107	-0.02	5.95
7		Trichlorofluoromethane	0.434	0.438	-0.9	94	0.00	6.32
8		Acrolein	0.022	0.021	4.5	98	0.00	8.16
9		Ethyl Ether	0.180	0.172	4.4	90	-0.02	6.60
10	C	1,1-Dichloroethene	0.350	0.391	-11.7	106	-0.02	7.05
11		Freon 113	0.225	0.247	-9.8	108	-0.02	6.94
			Amount	Calc.	%Drift			
12		Acetone	200.000	202.645	-1.3	90	-0.01	7.09
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.463	-19.3	104	-0.02	7.36
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	209.706	-4.9	101	0.00	7.46
15		Allyl Chloride	40.000	60.260	-50.6#	150	0.00	7.50
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.728	-5.5	101	0.00	7.50
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	98.009	2.0	106	0.00	7.50
18		Methylene Chloride	40.000	42.146	-5.4	97	-0.02	7.72
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.022	-4.8	98	0.00	7.65
20		trans-1,2-Dichloroethene	0.327	0.356	-8.9	101	-0.01	7.99
21		Acrylonitrile	0.058	0.057	1.7	101	-0.01	8.05
22		Methyl Tert Butyl Ether	0.740	0.796	-7.6	99	0.00	7.89
23		Hexane	0.180	0.171	5.0	100	0.00	8.16
24	P	1,1-Dichloroethane	0.413	0.431	-4.4	96	0.00	8.56
25		Vinyl acetate	0.518	0.534	-3.1	96	0.00	8.47
26		Di-isopropyl ether	0.807	0.804	0.4	95	0.00	8.39

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3602-CC3547
Lab FileID: F020748.D

27		Chloroprene	0.382	0.398	-4.2	97	0.00	8.62
28		Ethyl tert-butyl ether	0.793	0.862	-8.7	98	0.00	8.83
29		2,2-Dichloropropane	0.341	0.316	7.3	86	0.00	9.25
30		cis-1,2-Dichloroethene	0.284	0.285	-0.4	93	0.00	9.27
31		Ethyl Acetate	0.279	0.300	-7.5	98	-0.01	9.15
32		2-Butanone	0.279	0.300	-7.5	98	-0.01	9.15
33		Propionitrile	0.021	0.026	-23.8#	109	-0.01	9.39
34		Methacrylonitrile	0.188	0.181	3.7	98	0.00	9.55
35		Bromochloromethane	0.141	0.157	-11.3	98	0.00	9.59
36	C	Chloroform	0.547	0.567	-3.7	92	0.00	9.60
		----------	Amount	Calc.	%Drift		----------	
37		Tetrahydrofuran	40.000	44.252	-10.6	90	-0.01	9.15
		----------	AvgRF	CCRF	%Dev		----------	
38		1,1,1-Trichloroethane	0.471	0.467	0.8	90	0.00	9.86
39	S	Dibromofluoromethane	0.296	0.329	-11.1	101	0.00	9.82
40		Cyclohexane	0.284	0.283	0.4	100	0.00	9.88
		----------	Amount	Calc.	%Drift		----------	
41		Isobutyl Alcohol	800.000	824.170	-3.0	104	0.00	9.96
42		n-Butyl Alcohol	800.000	822.994	-2.9	106	0.00	10.76
		----------	AvgRF	CCRF	%Dev		----------	
43		1,1-Dichloropropene	0.351	0.368	-4.8	99	0.00	10.03
44		Carbon Tetrachloride	0.411	0.412	-0.2	92	0.00	10.03
		----------	Amount	Calc.	%Drift		----------	
45	S	1,2-Dichloroethane-d4	40.000	45.971	-14.9	95	0.00	10.29
		----------	AvgRF	CCRF	%Dev		----------	
46		Benzene	0.820	0.892	-8.8	105	0.00	10.31
47		1,2-Dichloroethane	0.476	0.475	0.2	90	0.00	10.39
48		tert-amyl methyl ether	0.747	0.813	-8.8	103	0.00	10.26
		----------	Amount	Calc.	%Drift		----------	
49		Trichloroethene	40.000	42.453	-6.1	98	0.00	11.07
		----------	AvgRF	CCRF	%Dev		----------	
50		Methylcyclohexane	0.264	0.259	1.9	99	0.00	11.26
51		Methyl Methacrylate	0.219	0.230	-5.0	97	0.00	11.32
52	C	1,2-Dichloropropane	0.202	0.211	-4.5	101	0.00	11.42
53		Dibromomethane	0.194	0.210	-8.2	98	0.00	11.61
54		1,4-Dioxane	0.002	0.002	0.0	101	0.00	11.50
55		Bromodichloromethane	0.472	0.461	2.3	90	0.00	11.72
56		2-Nitropropane	0.100	0.098	2.0	92	0.00	12.04
57		2-Chloroethyl vinyl ether	0.104	0.139	-33.7#	122	0.00	11.97
58		1-Bromo-2-Chloroethane	0.295	0.220	25.4#	72	0.00	12.21
59		4-Methyl-2-pentanone	0.195	0.200	-2.6	100	0.00	12.34
60		cis-1,3-Dichloropropene	0.441	0.463	-5.0	97	0.00	12.27
61	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	14.60
		----------	Amount	Calc.	%Drift		----------	
62	S	Toluene-d8	40.000	40.479	-1.2	109	0.01	12.58
		----------	AvgRF	CCRF	%Dev		----------	
63	C	Toluene	1.341	1.265	5.7	104	0.00	12.67
64		Ethyl Methacrylate	0.428	0.412	3.7	101	0.00	12.85
65		trans-1,3-Dichloropropene	0.582	0.532	8.6	95	0.00	12.98

Continuing Calibration Summary

Job Number: T39646 **Sample:** VF3602-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020748.D
Project: Vertellus-Provo

66		1,1,2-Trichloroethane	0.251	0.245	2.4	107	0.00	13.25
67		Tetrachloroethene	0.422	0.402	4.7	107	0.00	13.40
68		2-hexanone	0.192	0.180	6.3	101	0.00	13.41
69		1,3-Dichloropropane	0.564	0.542	3.9	105	0.00	13.51
70		Dibromochloromethane	0.433	0.400	7.6	94	0.00	13.82
71		1,2-Dibromoethane	0.353	0.342	3.1	103	0.00	14.06
72		1-Chlorohexane	0.470	0.413	12.1	95	0.00	14.39
73	P	Chlorobenzene	0.890	0.836	6.1	101	0.00	14.64
74		1,1,1,2-Tetrachloroethane	0.385	0.355	7.8	95	0.00	14.72
75	C	Ethylbenzene	1.670	1.502	10.1	96	0.00	14.66
76		m,p-Xylene	1.285	1.170	8.9	96	0.02	14.81
77		o-Xylene	1.337	1.202	10.1	94	0.00	15.39
78		Styrene	0.951	0.917	3.6	100	0.00	15.41
79	P	Bromoform	0.308	0.278	9.7	91	0.00	15.81
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	17.79
81		Isopropylbenzene	2.264	1.873	17.3	90	0.02	15.82
		----------	Amount	Calc.	%Drift		----------	
82		Cyclohexanone	200.000	190.351	4.8	103	0.00	16.14
83	S	4-Bromofluorobenzene	40.000	38.181	4.5	101	0.02	16.16
		----------	AvgRF	CCRF	%Dev		----------	
84		Bromobenzene	0.809	0.722	10.8	95	0.02	16.43
85	P	1,1,2,2-Tetrachloroethane	0.619	0.520	16.0	90	0.02	16.30
86		Trans-1,4-Dichloro-2-Bute	0.229	0.147	35.8#	63	0.02	16.37
87		1,2,3-Trichloropropane	0.236	0.205	13.1	92	0.00	16.42
88		n-Propylbenzene	3.103	2.504	19.3	87	0.00	16.36
89		2-Chlorotoluene	2.306	1.897	17.7	89	0.02	16.62
90		4-Chlorotoluene	2.155	1.797	16.6	89	0.00	16.75
91		1,3,5-Trimethylbenzene	2.053	1.694	17.5	88	0.02	16.57
92		Pentachloroethane	0.522	0.457	12.5	92	0.00	17.23
93		sec-Butylbenzene	2.264	1.772	21.7#	84	0.02	17.35
94		1,3-Dichlorobenzene	1.264	1.083	14.3	90	0.00	17.70
95		4-Isopropyltoluene	1.841	1.429	22.4#	83	0.00	17.51
96		1,4-Dichlorobenzene	1.302	1.149	11.8	90	0.00	17.83
		----------	Amount	Calc.	%Drift		----------	
97		tert-Butylbenzene	40.000	32.267	19.3	83	0.00	17.34
		----------	AvgRF	CCRF	%Dev		----------	
98		n-Butylbenzene	1.782	1.367	23.3#	78	0.00	18.11
99		1,2-Dichlorobenzene	1.186	1.015	14.4	85	0.00	18.41
100		1,2,4-Trimethylbenzene	2.195	1.773	19.2	85	0.02	17.13
101		Hexachloroethane	0.436	0.303	30.5#	62	0.02	18.74
		----------	Amount	Calc.	%Drift		----------	
102		1,2-Dibromo-3-Chloropropa	40.000	25.039	37.4#	54	0.02	19.57
103		1,2,4-Trichlorobenzene	40.000	20.997	47.5#	46	0.01	20.78
104		Hexachlorobutadiene	40.000	30.416	24.0#	66	0.00	20.86
105		Naphthalene	40.000	25.019	37.5#	54	0.00	21.24
106		1,2,3-Trichlorobenzene	40.000	16.736	58.2#	38	0.00	21.64
		----------	AvgRF	CCRF	%Dev		----------	
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	103	0.00	17.79
		----------	Amount	Calc.	%Drift		----------	
108	H	TPH-GRO (C6-C10)	4000.000	2389.089	40.3#	97	0.00	12.34

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3602-CC3547
Lab FileID: F020748.D

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-----------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    F019686.D  VF3547AP9G.M       Thu Oct 15 09:39:46 2009
```

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3603-CC3547
Lab FileID: F020774.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\VF3603\F020774.D          Vial: 2
Acq On    : 15 Oct 2009   9:36 am                   Operator: AnjanaP
Sample    : cc3547-20                               Inst    : GC/MS F
Misc      : ms7105,vf3603,5,,,5,,water              Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Thu Oct 15 09:58:58 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	113	0.02	10.65
2	Dichlorodifluoromethane	0.281	0.176	37.4#	77	0.03	4.65
	----------	Amount	Calc.	%Drift		----------	
3 P	Chloromethane	20.000	13.542	32.3#	112	0.01	5.02
4 C	Vinyl Chloride	20.000	17.116	14.4	126	0.00	5.24
5	Bromomethane	20.000	24.704	-23.5#	142	0.01	5.83
	----------	AvgRF	CCRF	%Dev		----------	
6	Chloroethane	0.134	0.145	-8.2	140	0.01	5.98
7	Trichlorofluoromethane	0.434	0.408	6.0	115	0.02	6.35
8	Acrolein	0.022	0.020	9.1	114	0.02	8.19
9	Ethyl Ether	0.180	0.168	6.7	118	0.01	6.63
10 C	1,1-Dichloroethene	0.350	0.366	-4.6	131	0.01	7.08
11	Freon 113	0.225	0.226	-0.4	117	0.01	6.98
	----------	Amount	Calc.	%Drift		----------	
12	Acetone	100.000	97.433	2.6	122	0.02	7.12
	----------	AvgRF	CCRF	%Dev		----------	
13	Iodomethane	0.388	0.431	-11.1	131	0.01	7.39
	----------	Amount	Calc.	%Drift		----------	
14	Methyl acetate	100.000	106.088	-6.1	137	0.02	7.48
15	Allyl Chloride	20.000	23.131	-15.7	106	0.02	7.53
	----------	AvgRF	CCRF	%Dev		----------	
16	Carbon Disulfide	0.690	0.690	0.0	124	0.03	7.53
	----------	Amount	Calc.	%Drift		----------	
17	Acetonitrile	50.000	59.314	-18.6	153	0.02	7.53
18	Methylene Chloride	20.000	20.806	-4.0	127	0.01	7.75
	----------	AvgRF	CCRF	%Dev		----------	
19	Tert Butyl Alcohol	0.021	0.023	-9.5	138	0.02	7.67
20	trans-1,2-Dichloroethene	0.327	0.335	-2.4	123	0.01	8.01
21	Acrylonitrile	0.058	0.058	0.0	126	0.01	8.07
22	Methyl Tert Butyl Ether	0.740	0.779	-5.3	131	0.02	7.91
23	Hexane	0.180	0.163	9.4	111	0.02	8.19
24 P	1,1-Dichloroethane	0.413	0.400	3.1	121	0.02	8.58
25	Vinyl acetate	0.518	0.526	-1.5	129	0.02	8.49
26	Di-isopropyl ether	0.807	0.759	5.9	120	0.02	8.41

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3603-CC3547
Lab FileID: F020774.D

27		Chloroprene	0.382	0.387	-1.3	112	0.03	8.65
28		Ethyl tert-butyl ether	0.793	0.827	-4.3	127	0.02	8.85
29		2,2-Dichloropropane	0.341	0.301	11.7	103	0.02	9.27
30		cis-1,2-Dichloroethene	0.284	0.264	7.0	111	0.03	9.30
31		Ethyl Acetate	0.279	0.298	-6.8	132	0.02	9.18
32		2-Butanone	0.279	0.298	-6.8	132	0.02	9.18
33		Propionitrile	0.021	0.025	-19.0	128	0.02	9.43
34		Methacrylonitrile	0.188	0.191	-1.6	128	0.01	9.56
35		Bromochloromethane	0.141	0.145	-2.8	120	0.02	9.61
36	C	Chloroform	0.547	0.533	2.6	116	0.02	9.62
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	20.000	21.686	-8.4	124	0.01	9.17
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.439	6.8	110	0.02	9.88
39	S	Dibromofluoromethane	0.296	0.308	-4.1	128	0.02	9.84
40		Cyclohexane	0.284	0.264	7.0	114	0.03	9.91
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	400.000	446.974	-11.7	121	0.02	9.98
42		n-Butyl Alcohol	400.000	465.260	-16.3	149	0.02	10.78
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.343	2.3	116	0.02	10.06
44		Carbon Tetrachloride	0.411	0.390	5.1	112	0.03	10.07
		----------	Amount	Calc.	%Drift	----------		
45	S	1,2-Dichloroethane-d4	20.000	21.179	-5.9	125	0.03	10.32
		----------	AvgRF	CCRF	%Dev	----------		
46		Benzene	0.820	0.836	-2.0	125	0.03	10.34
47		1,2-Dichloroethane	0.476	0.460	3.4	117	0.02	10.41
48		tert-amyl methyl ether	0.747	0.779	-4.3	131	0.02	10.28
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	20.000	18.988	5.1	116	0.02	11.09
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.241	8.7	112	0.02	11.28
51		Methyl Methacrylate	0.219	0.225	-2.7	121	0.02	11.33
52	C	1,2-Dichloropropane	0.202	0.198	2.0	124	0.03	11.44
53		Dibromomethane	0.194	0.197	-1.5	123	0.02	11.63
54		1,4-Dioxane	0.002	0.002	0.0	141	0.03	11.52
55		Bromodichloromethane	0.472	0.433	8.3	114	0.02	11.74
56		2-Nitropropane	0.100	0.107	-7.0	126	0.02	12.06
57		2-Chloroethyl vinyl ether	0.104	0.129	-24.0#	160	0.03	11.99
58		1-Bromo-2-Chloroethane	0.295	0.214	27.5#	94	0.02	12.23
59		4-Methyl-2-pentanone	0.195	0.194	0.5	131	0.02	12.36
60		cis-1,3-Dichloropropene	0.441	0.429	2.7	122	0.03	12.29
61	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.03	14.62
		----------	Amount	Calc.	%Drift	----------		
62	S	Toluene-d8	20.000	22.635	-13.2	134	0.03	12.60
		----------	AvgRF	CCRF	%Dev	----------		
63	C	Toluene	1.341	1.350	-0.7	126	0.03	12.69
64		Ethyl Methacrylate	0.428	0.458	-7.0	121	0.03	12.87
65		trans-1,3-Dichloropropene	0.582	0.572	1.7	121	0.03	13.00

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3603-CC3547
Lab FileID: F020774.D

66		1,1,2-Trichloroethane	0.251	0.254	-1.2	128	0.03	13.27
67		Tetrachloroethene	0.422	0.415	1.7	120	0.03	13.42
68		2-hexanone	0.192	0.198	-3.1	132	0.03	13.43
69		1,3-Dichloropropane	0.564	0.581	-3.0	128	0.03	13.53
70		Dibromochloromethane	0.433	0.425	1.8	120	0.03	13.84
71		1,2-Dibromoethane	0.353	0.365	-3.4	127	0.03	14.08
72		1-Chlorohexane	0.470	0.435	7.4	119	0.03	14.41
73	P	Chlorobenzene	0.890	0.880	1.1	124	0.03	14.66
74		1,1,1,2-Tetrachloroethane	0.385	0.379	1.6	123	0.02	14.73
75	C	Ethylbenzene	1.670	1.602	4.1	123	0.02	14.67
76		m,p-Xylene	1.285	1.245	3.1	121	0.03	14.82
77		o-Xylene	1.337	1.302	2.6	123	0.03	15.41
78		Styrene	0.951	0.984	-3.5	129	0.03	15.43
79	P	Bromoform	0.308	0.298	3.2	118	0.03	15.83
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.02	17.80
81		Isopropylbenzene	2.264	2.083	8.0	116	0.03	15.83
		----------	Amount	Calc.	%Drift		----------	
82		Cyclohexanone	100.000	163.656	-63.7#	224	0.03	16.17
83	S	4-Bromofluorobenzene	20.000	21.963	-9.8	140	0.03	16.18
		----------	AvgRF	CCRF	%Dev		----------	
84		Bromobenzene	0.809	0.808	0.1	123	0.03	16.44
85	P	1,1,2,2-Tetrachloroethane	0.619	0.615	0.6	129	0.03	16.31
86		Trans-1,4-Dichloro-2-Bute	0.229	0.175	23.6#	94	0.03	16.38
87		1,2,3-Trichloropropane	0.236	0.240	-1.7	126	0.03	16.44
88		n-Propylbenzene	3.103	2.823	9.0	115	0.02	16.37
89		2-Chlorotoluene	2.306	2.121	8.0	118	0.03	16.63
90		4-Chlorotoluene	2.155	1.997	7.3	119	0.03	16.78
91		1,3,5-Trimethylbenzene	2.053	1.879	8.5	115	0.03	16.58
92		Pentachloroethane	0.522	0.523	-0.2	111	0.02	17.24
93		sec-Butylbenzene	2.264	2.010	11.2	114	0.03	17.37
94		1,3-Dichlorobenzene	1.264	1.207	4.5	120	0.02	17.71
95		4-Isopropyltoluene	1.841	1.615	12.3	109	0.02	17.52
96		1,4-Dichlorobenzene	1.302	1.266	2.8	119	0.02	17.84
		----------	Amount	Calc.	%Drift		----------	
97		tert-Butylbenzene	20.000	17.732	11.3	109	0.03	17.37
		----------	AvgRF	CCRF	%Dev		----------	
98		n-Butylbenzene	1.782	1.480	16.9	107	0.02	18.12
99		1,2-Dichlorobenzene	1.186	1.127	5.0	120	0.02	18.42
100		1,2,4-Trimethylbenzene	2.195	1.979	9.8	113	0.03	17.14
101		Hexachloroethane	0.436	0.361	17.2	100	0.03	18.75
		----------	Amount	Calc.	%Drift		----------	
102		1,2-Dibromo-3-Chloropropa	20.000	12.885	35.6#	87	0.03	19.58
103		1,2,4-Trichlorobenzene	20.000	8.897	55.5#	64	0.02	20.79
104		Hexachlorobutadiene	20.000	13.232	33.8#	88	0.02	20.87
105		Naphthalene	20.000	11.567	42.2#	82	0.02	21.25
106		1,2,3-Trichlorobenzene	20.000	3.700	81.5#	36	0.02	21.66
		----------	AvgRF	CCRF	%Dev		----------	
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	111	0.02	17.80
		----------	Amount	Calc.	%Drift		----------	
108	H	TPH-GRO (C6-C10)	2000.000	1665.415	16.7	119	0.00	12.34

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3603-CC3547
Lab FileID: F020774.D

```
-----------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    F019685.D  VF3547AP9G.M       Thu Oct 15 16:32:23 2009
```

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020719.D Vial: 21
Acq On : 13 Oct 2009 7:12 pm Operator: AnjanaP
Sample : t39646-1 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:42:50 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:42:20 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.65	96	1375594	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	1077863	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	592428	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	592428	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	374828	45.96	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 91.92%			
45) 1,2-Dichloroethane-d4	10.31	65	428020	40.97	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 81.94%			
62) Toluene-d8	12.59	98	1090097	43.70	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.40%			
83) 4-Bromofluorobenzene	16.17	95	492331	44.01	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.02%			

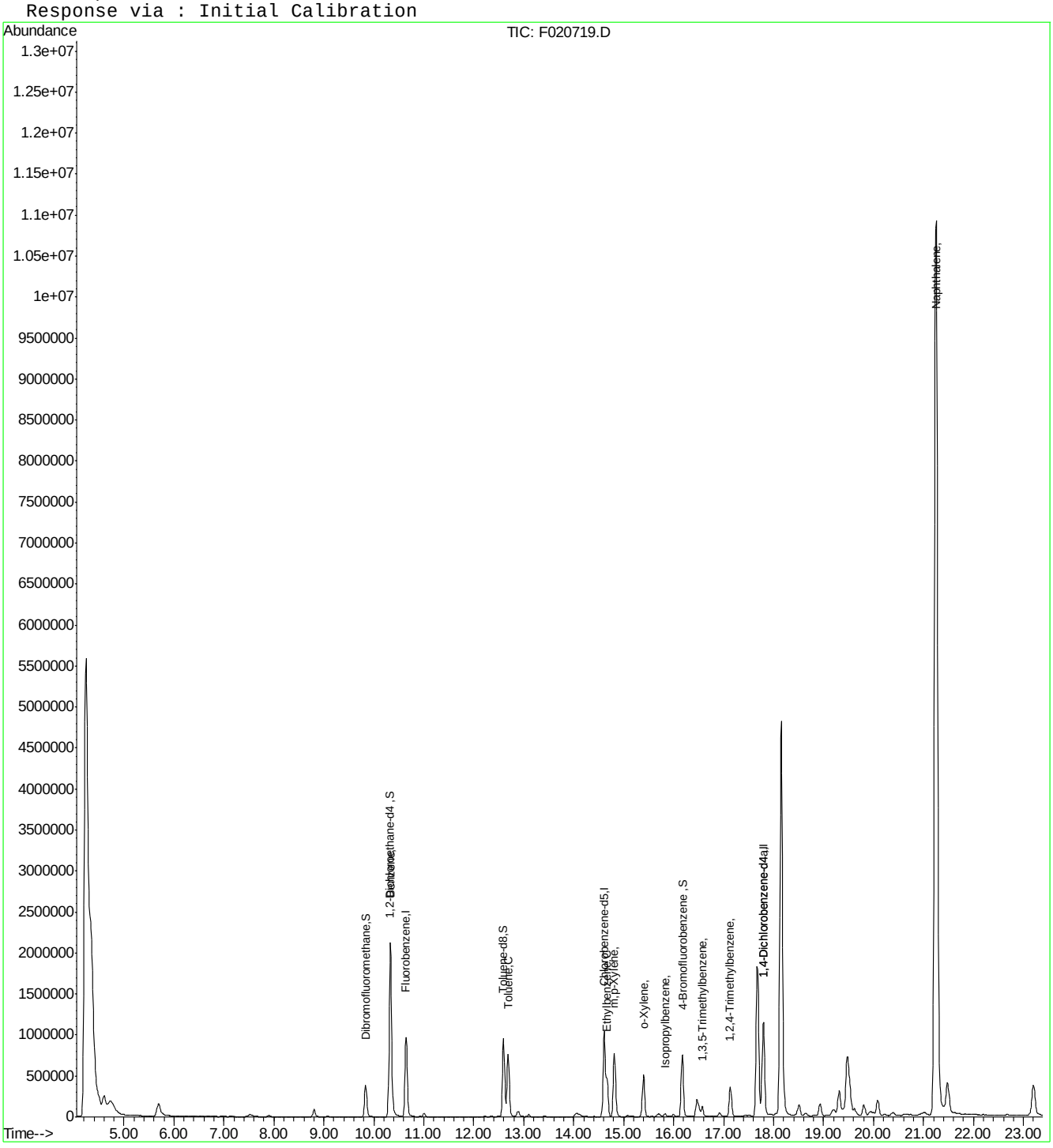
Target Compounds						Qvalue
46) Benzene	10.33	78	2732237	121.05	ug/L	81
63) Toluene	12.69	91	963699	33.34	ug/L	100
75) Ethylbenzene	14.67	91	573302	15.93	ug/L	100
76) m,p-Xylene	14.81	91	889917	32.13	ug/L	95
77) o-Xylene	15.40	91	587357	20.38	ug/L	93
81) Isopropylbenzene	15.83	105	36445	1.36	ug/L	97
91) 1,3,5-Trimethylbenzene	16.57	105	121126	4.98	ug/L	99
100) 1,2,4-Trimethylbenzene	17.14	105	399916	15.38	ug/L	98
105) Naphthalene	21.25	128	22691408	2322.63	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

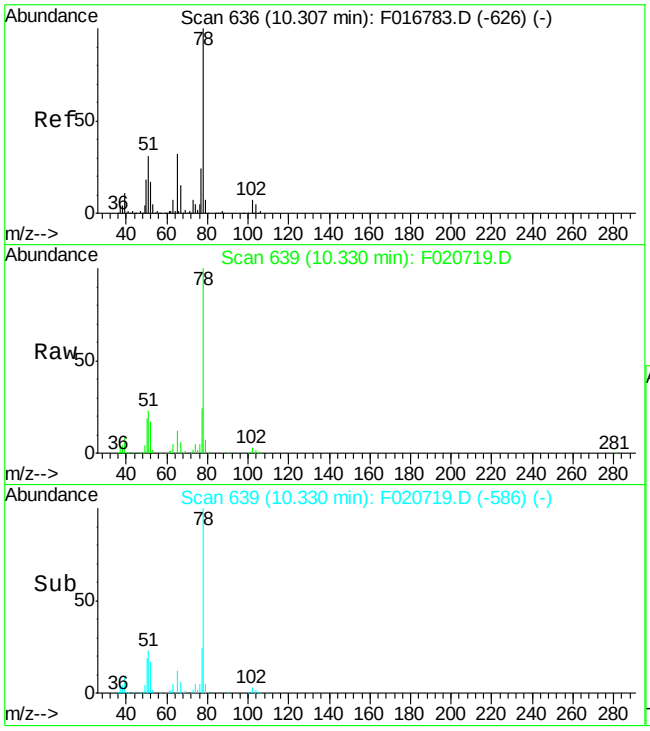
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020719.D Vial: 21
Acq On : 13 Oct 2009 7:12 pm Operator: AnjanaP
Sample : t39646-1 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:45 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



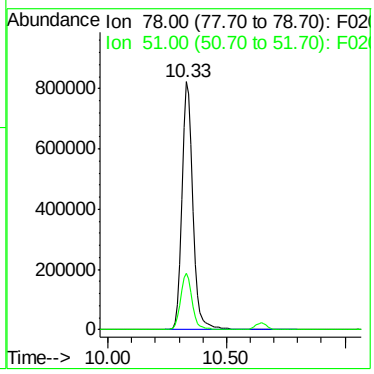
ACCUTEST Laboratories T39646

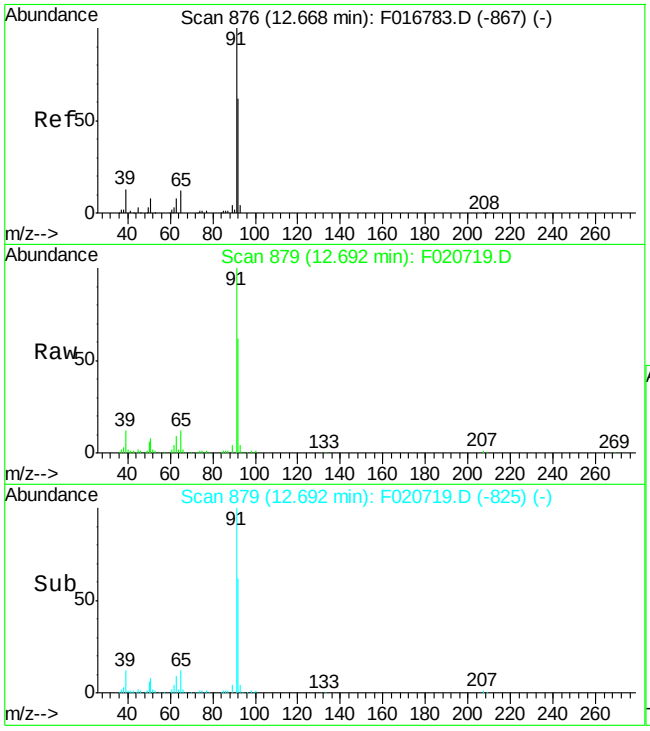


#46
Benzene
Concen: 121.05 ug/L
RT: 10.33 min Scan# 639
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion: 78 Resp: 2732237

Ion	Ratio	Lower	Upper
78	100		
51	22.9	4.0	64.0

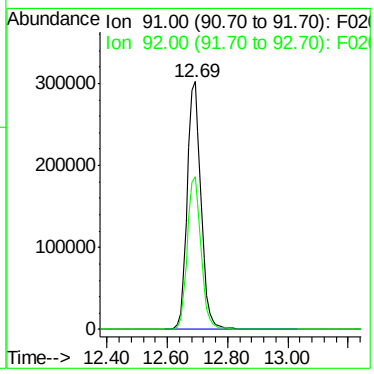


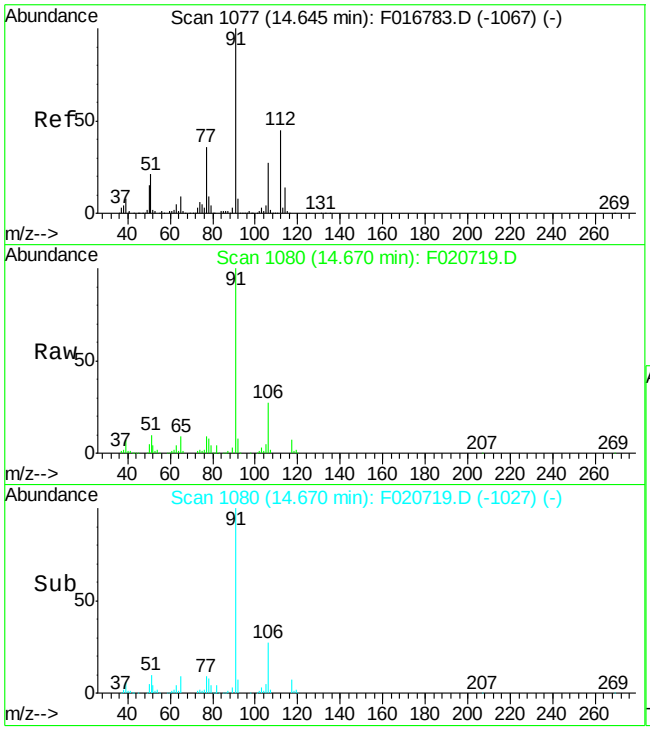


#63
Toluene
Concen: 33.34 ug/L
RT: 12.69 min Scan# 879
Delta R.T. 0.03 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion: 91 Resp: 963699

Ion	Ratio	Lower	Upper
91	100		
92	61.6	31.7	91.7

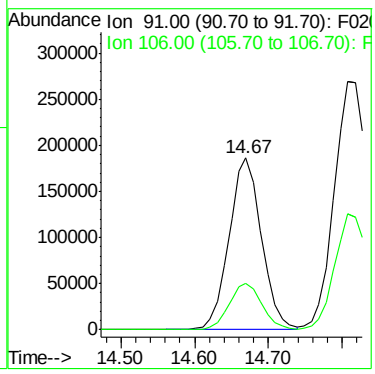


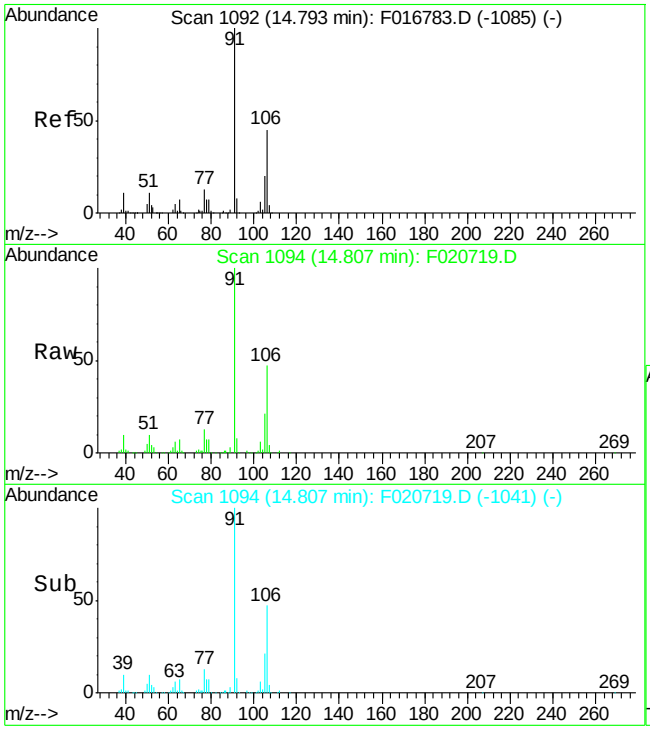


#75
Ethylbenzene
Concen: 15.93 ug/L
RT: 14.67 min Scan# 1080
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion: 91 Resp: 573302

Ion	Ratio	Lower	Upper
91	100		
106	27.3	0.0	57.1

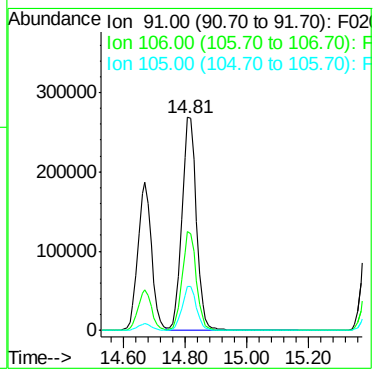


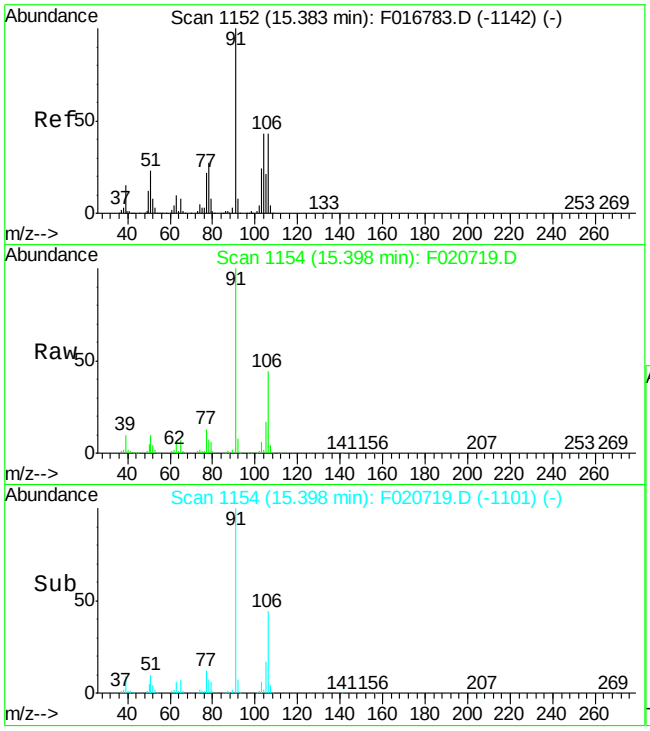


#76
m,p-Xylene
Concen: 32.13 ug/L
RT: 14.81 min Scan# 1094
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion: 91 Resp: 889917

Ion	Ratio	Lower	Upper
91	100		
106	46.5	12.4	72.4
105	20.6	0.0	49.8

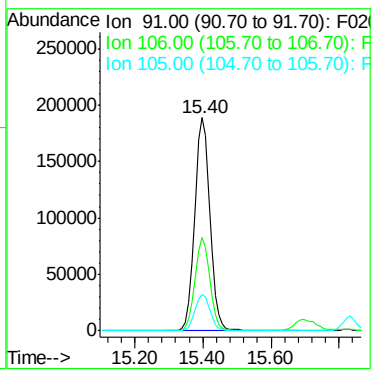


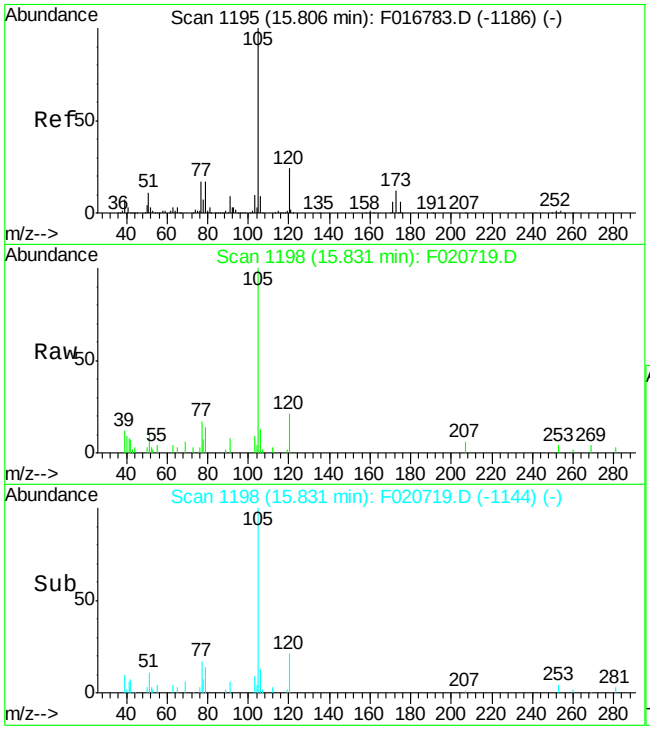


#77
o-Xylene
Concen: 20.38 ug/L
RT: 15.40 min Scan# 1154
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion: 91 Resp: 587357

Ion	Ratio	Lower	Upper
91	100		
106	43.8	9.6	69.6
105	17.2	0.0	49.9

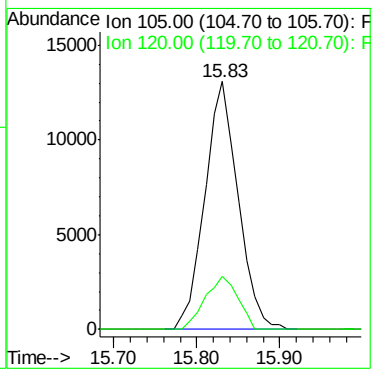


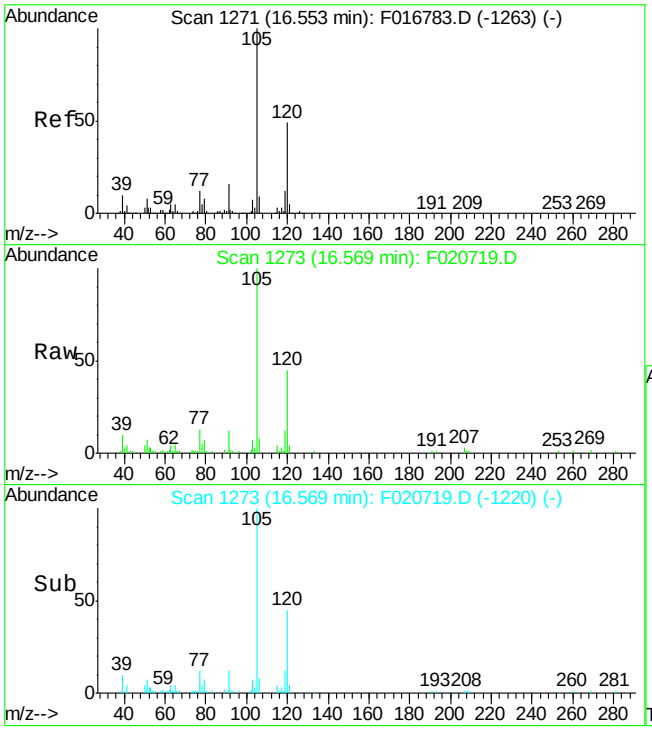


#81
Isopropylbenzene
Concen: 1.36 ug/L
RT: 15.83 min Scan# 1198
Delta R.T. 0.03 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion:105 Resp: 36445

Ion	Ratio	Lower	Upper
105	100		
120	21.5	0.0	52.8

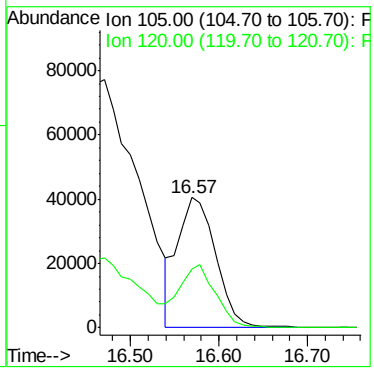


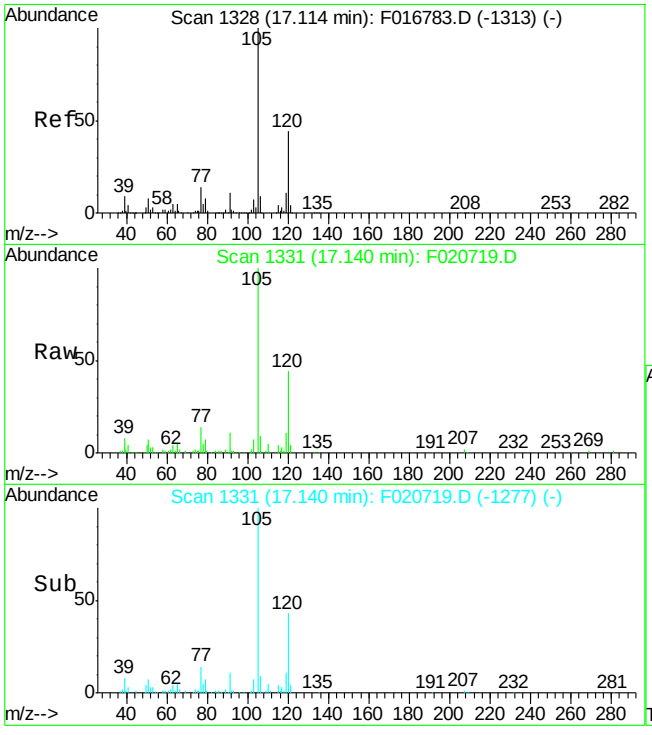


#91
1,3,5-Trimethylbenzene
Concen: 4.98 ug/L
RT: 16.57 min Scan# 1273
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion:105 Resp: 121126

Ion	Ratio	Lower	Upper
105	100		
120	45.4	15.7	75.7

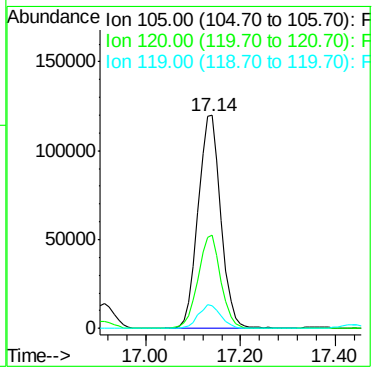


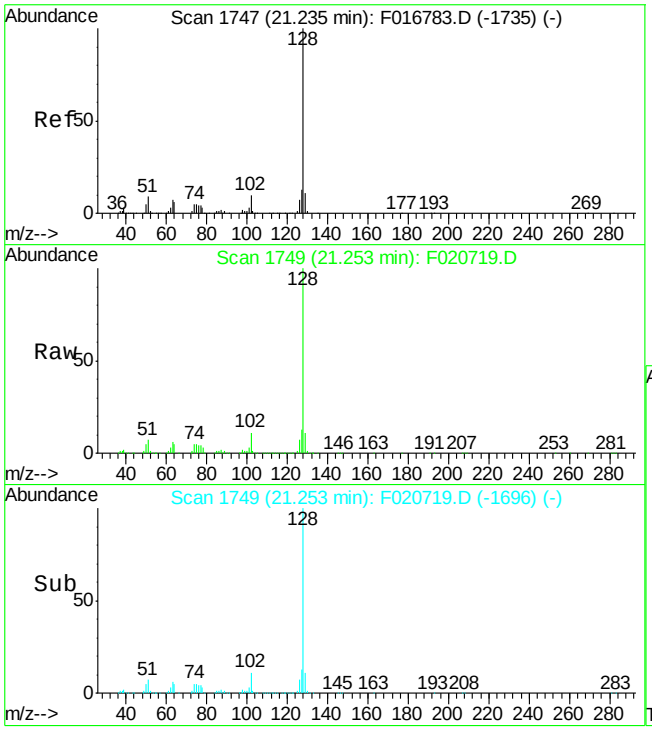


#100
1,2,4-Trimethylbenzene
Concen: 15.38 ug/L
RT: 17.14 min Scan# 1331
Delta R.T. 0.03 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion:105 Resp: 399916

Ion	Ratio	Lower	Upper
105	100		
120	43.8	12.2	72.2
119	10.6	0.0	40.6

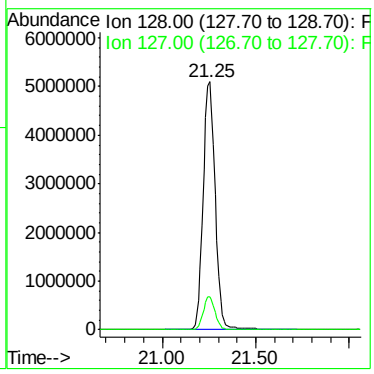




#105
Naphthalene
Concen: 2322.63 ug/L
RT: 21.25 min Scan# 1749
Delta R.T. 0.02 min
Lab File: F020719.D
Acq: 13 Oct 2009 7:12 pm

Tgt Ion:128 Resp:22691408

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020769.D Vial: 24
Acq On : 14 Oct 2009 9:32 pm Operator: AnjanaP
Sample : t39646-2,5x Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,5,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:09 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1051278	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	850720	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	481674	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	481674	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.84	113	312426	50.12	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.24%			
45) 1,2-Dichloroethane-d4	10.31	65	372400	46.92	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 93.84%			
62) Toluene-d8	12.59	98	934870	47.42	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.84%			
83) 4-Bromofluorobenzene	16.16	95	395907	43.53	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 87.06%			

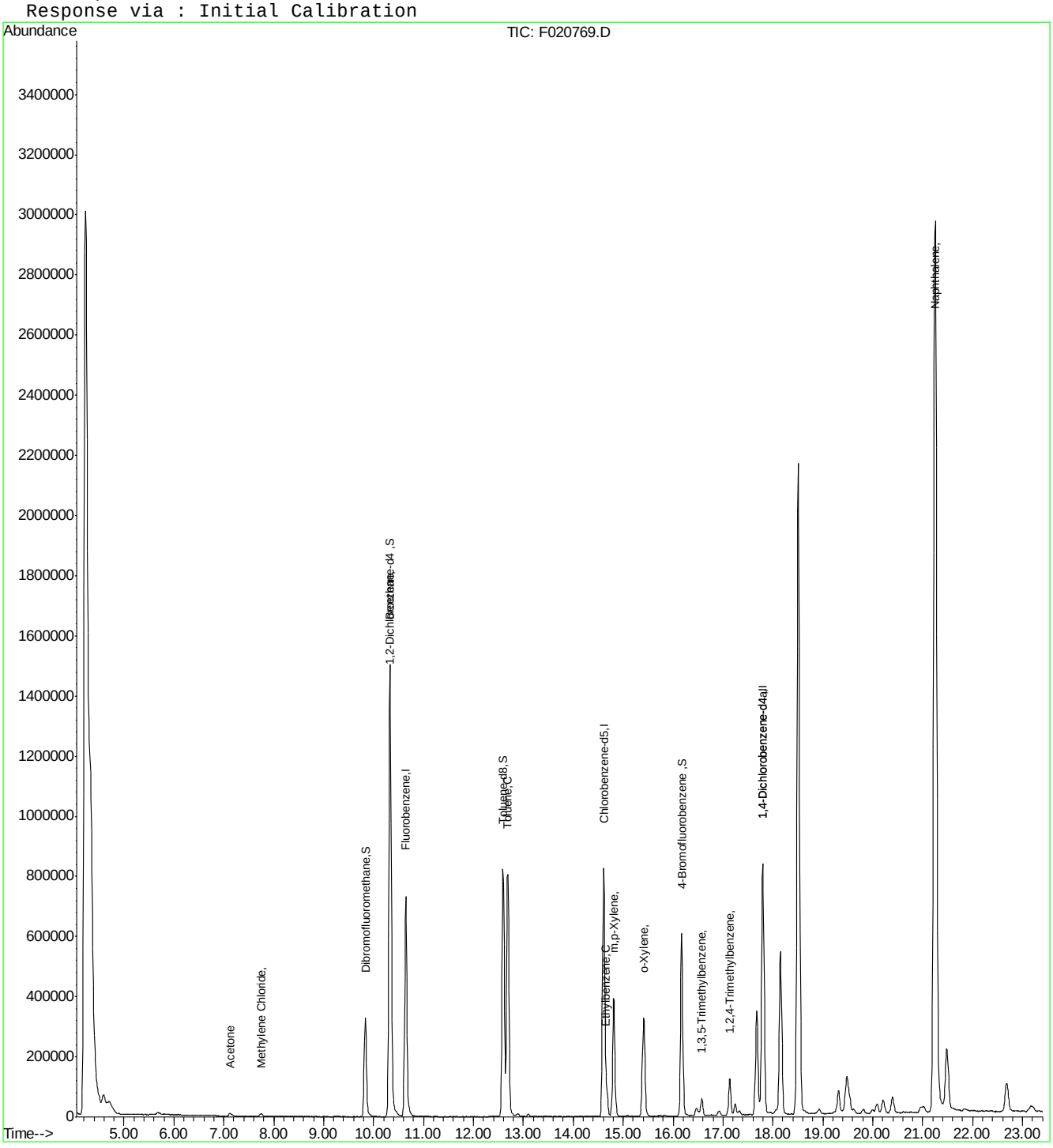
Target Compounds						Qvalue
12) Acetone	7.11	43	30302	12.34	ug/L	97
18) Methylene Chloride	7.75	49	12324	1.37	ug/L	95
46) Benzene	10.33	78	1821673	105.61	ug/L	83
63) Toluene	12.69	91	1028861	45.09	ug/L	99
75) Ethylbenzene	14.67	91	109144	3.84	ug/L	99
76) m,p-Xylene	14.81	91	460372	21.06	ug/L	98
77) o-Xylene	15.40	91	224820	9.89	ug/L	96
91) 1,3,5-Trimethylbenzene	16.57	105	59295	3.00	ug/L	94
100) 1,2,4-Trimethylbenzene	17.14	105	137567	6.51	ug/L	98
105) Naphthalene	21.25	128	6155819	773.58	ug/L	100

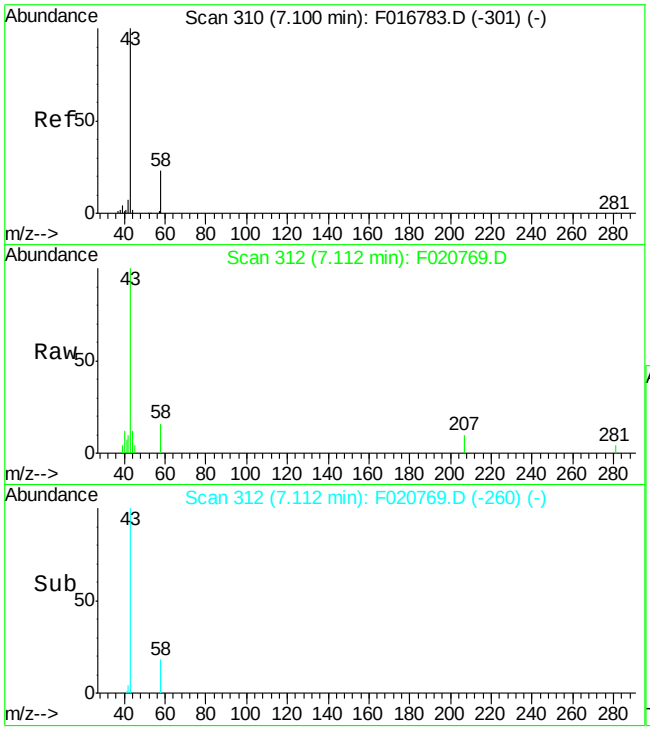
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020769.D Vial: 24
Acq On : 14 Oct 2009 9:32 pm Operator: AnjanaP
Sample : t39646-2,5x Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,5,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:36 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

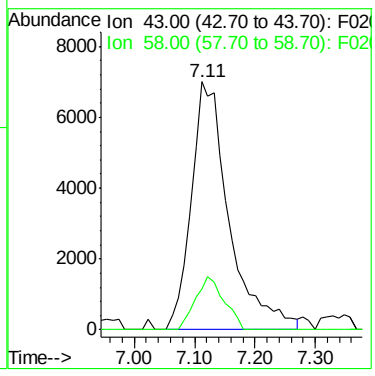


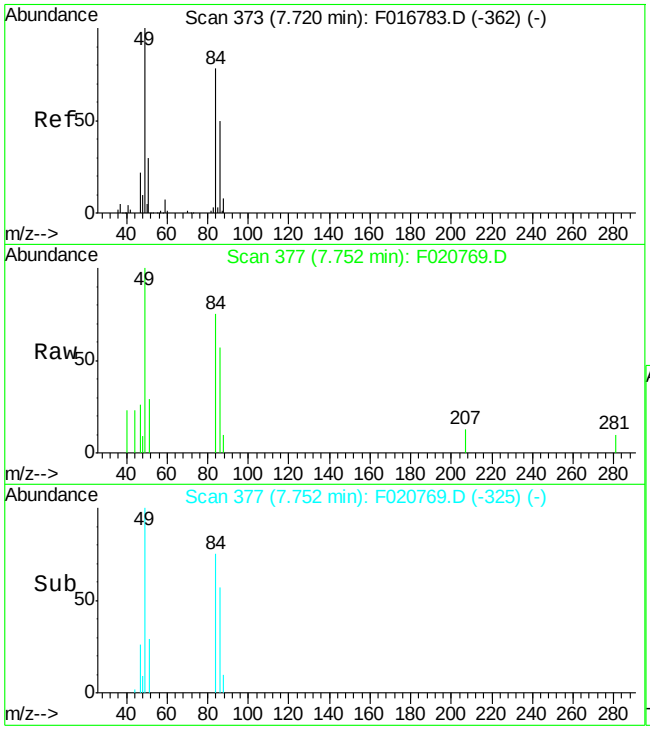


#12
Acetone
Concen: 12.34 ug/L
RT: 7.11 min Scan# 312
Delta R.T. 0.01 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 43 Resp: 30302

Ion	Ratio	Lower	Upper
43	100		
58	16.3	0.0	47.7

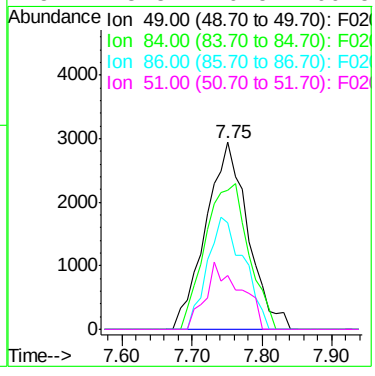


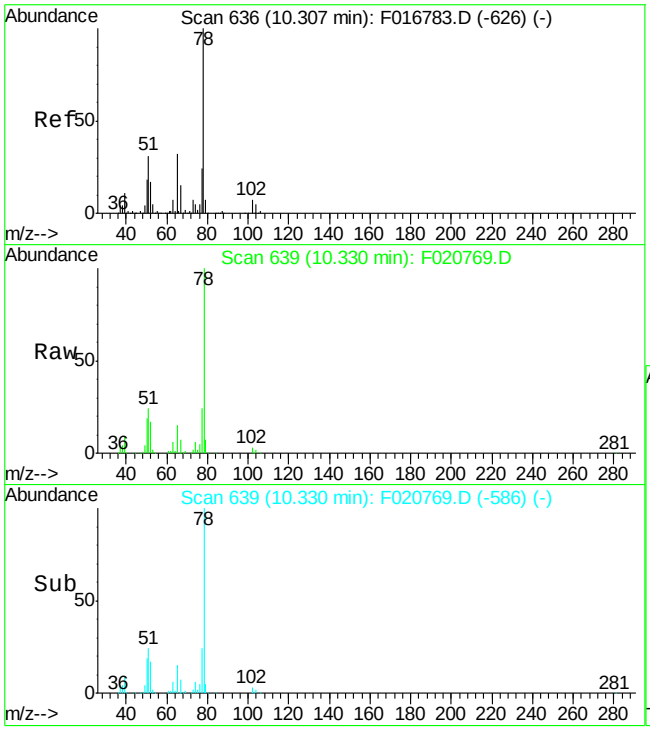


#18
Methylene Chloride
Concen: 1.37 ug/L
RT: 7.75 min Scan# 377
Delta R.T. 0.01 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 49 Resp: 12324

Ion	Ratio	Lower	Upper
49	100		
84	74.6	51.0	111.0
86	56.8	25.2	85.2
51	28.8	0.5	60.5

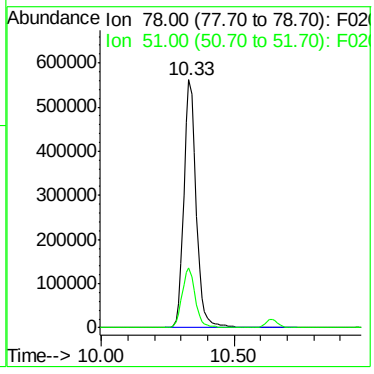


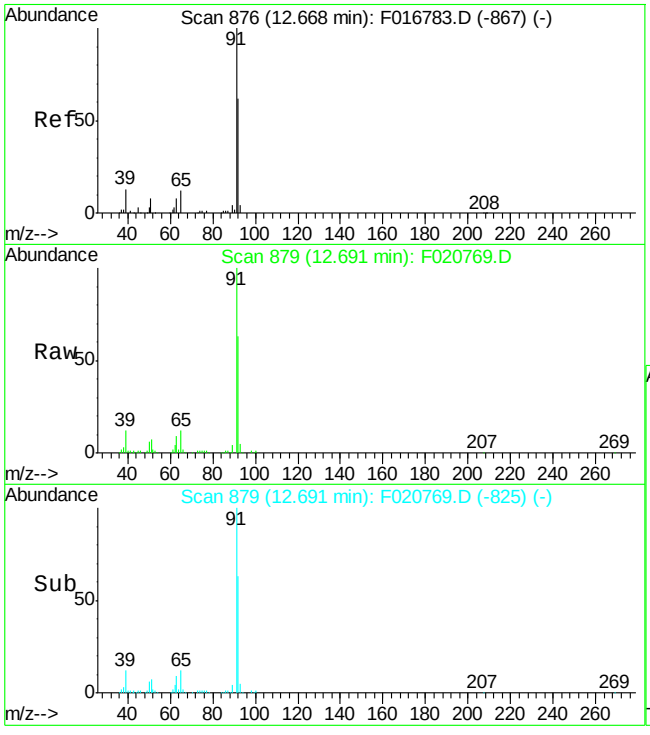


#46
Benzene
Concen: 105.61 ug/L
RT: 10.33 min Scan# 639
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 78 Resp: 1821673

Ion	Ratio	Lower	Upper
78	100		
51	24.2	4.0	64.0

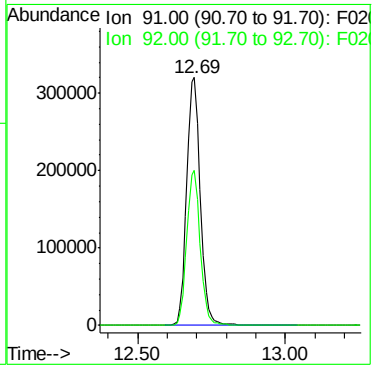


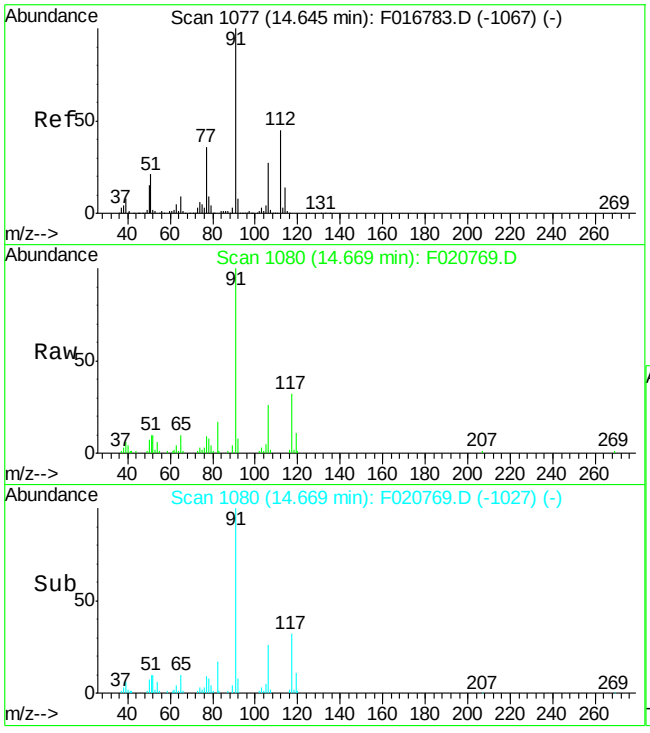


#63
Toluene
Concen: 45.09 ug/L
RT: 12.69 min Scan# 879
Delta R.T. 0.03 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 91 Resp: 1028861

Ion	Ratio	Lower	Upper
91	100		
92	62.7	31.7	91.7

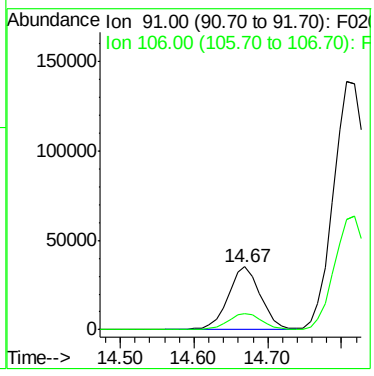


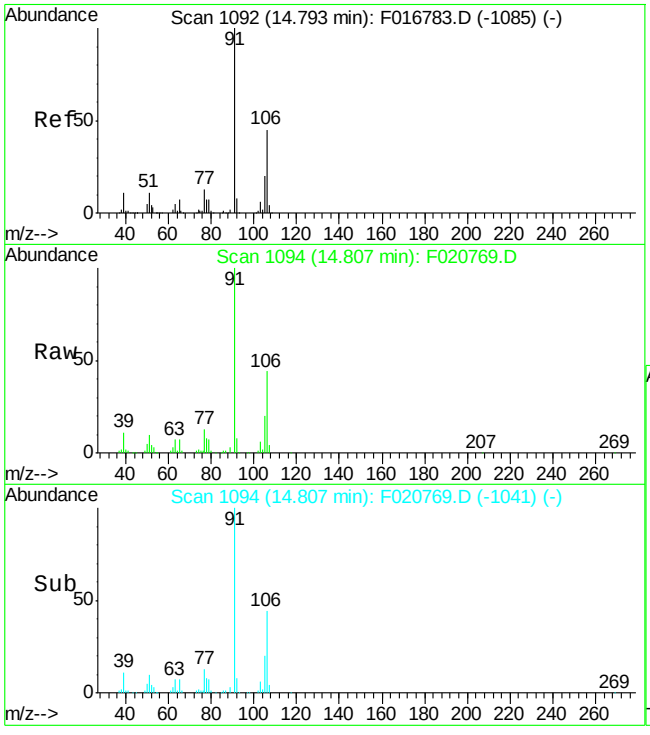


#75
Ethylbenzene
Concen: 3.84 ug/L
RT: 14.67 min Scan# 1080
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 91 Resp: 109144

Ion	Ratio	Lower	Upper
91	100		
106	26.5	0.0	57.1

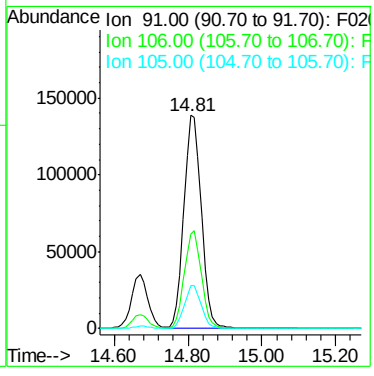


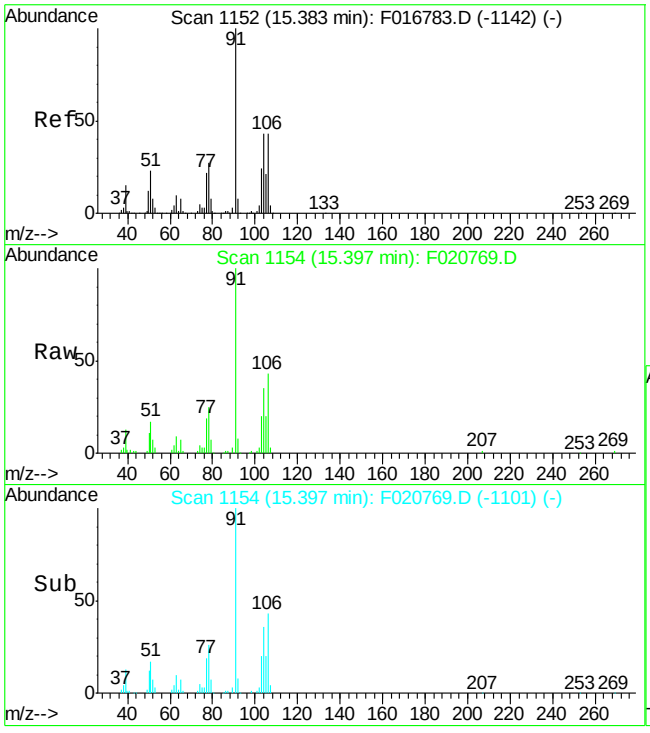


#76
m,p-Xylene
Concen: 21.06 ug/L
RT: 14.81 min Scan# 1094
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 91 Resp: 460372

Ion	Ratio	Lower	Upper
91	100		
106	44.3	12.4	72.4
105	20.0	0.0	49.8

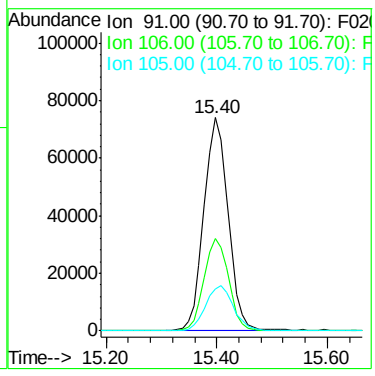


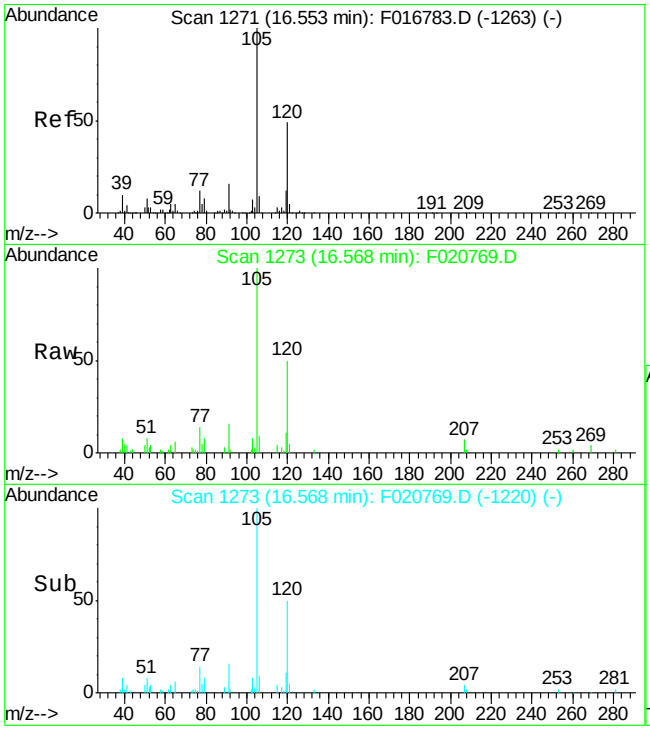


#77
o-Xylene
Concen: 9.89 ug/L
RT: 15.40 min Scan# 1154
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 91 Resp: 224820

Ion	Ratio	Lower	Upper
91	100		
106	43.2	9.6	69.6
105	19.8	0.0	49.9

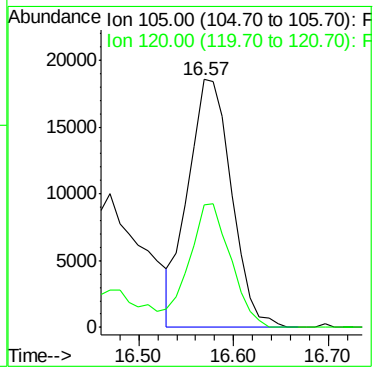


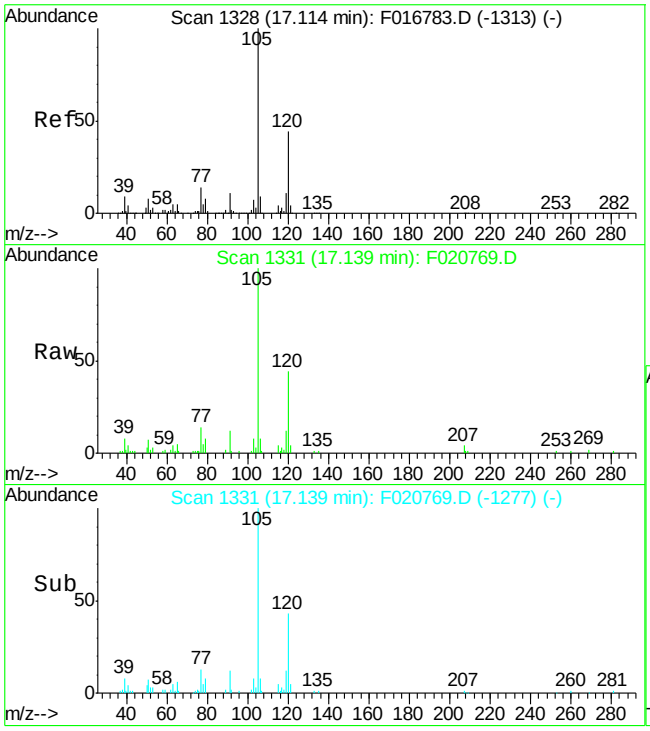


#91
1,3,5-Trimethylbenzene
Concen: 3.00 ug/L
RT: 16.57 min Scan# 1273
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:105 Resp: 59295

Ion	Ratio	Lower	Upper
105	100		
120	49.6	15.7	75.7

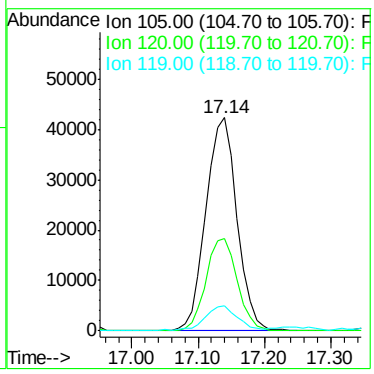


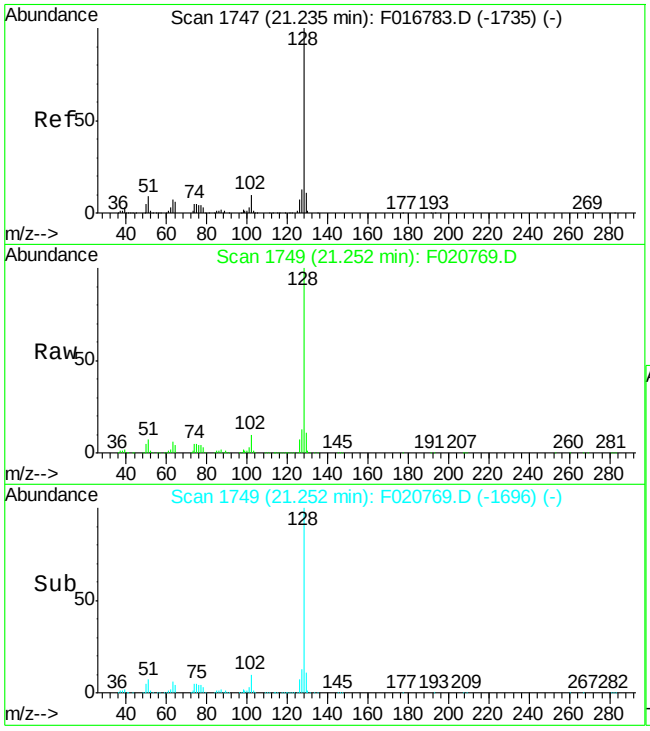


#100
1,2,4-Trimethylbenzene
Concen: 6.51 ug/L
RT: 17.14 min Scan# 1331
Delta R.T. 0.03 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:105 Resp: 137567

Ion	Ratio	Lower	Upper
105	100		
120	43.5	12.2	72.2
119	11.2	0.0	40.6

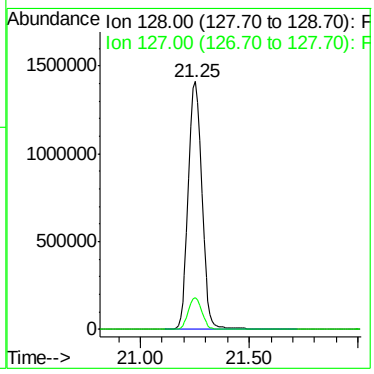




#105
Naphthalene
Concen: 773.58 ug/L
RT: 21.25 min Scan# 1749
Delta R.T. 0.02 min
Lab File: F020769.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:128 Resp: 6155819

Ion	Ratio	Lower	Upper
128	100		
127	12.7	0.0	42.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0004007.D
Acq On : 14 Oct 2009 9:56 pm
Operator : AnjanaP
Sample : t39646-3,100x
Misc : ms7105,VC0175,5,,,5,100,WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 15 10:55:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

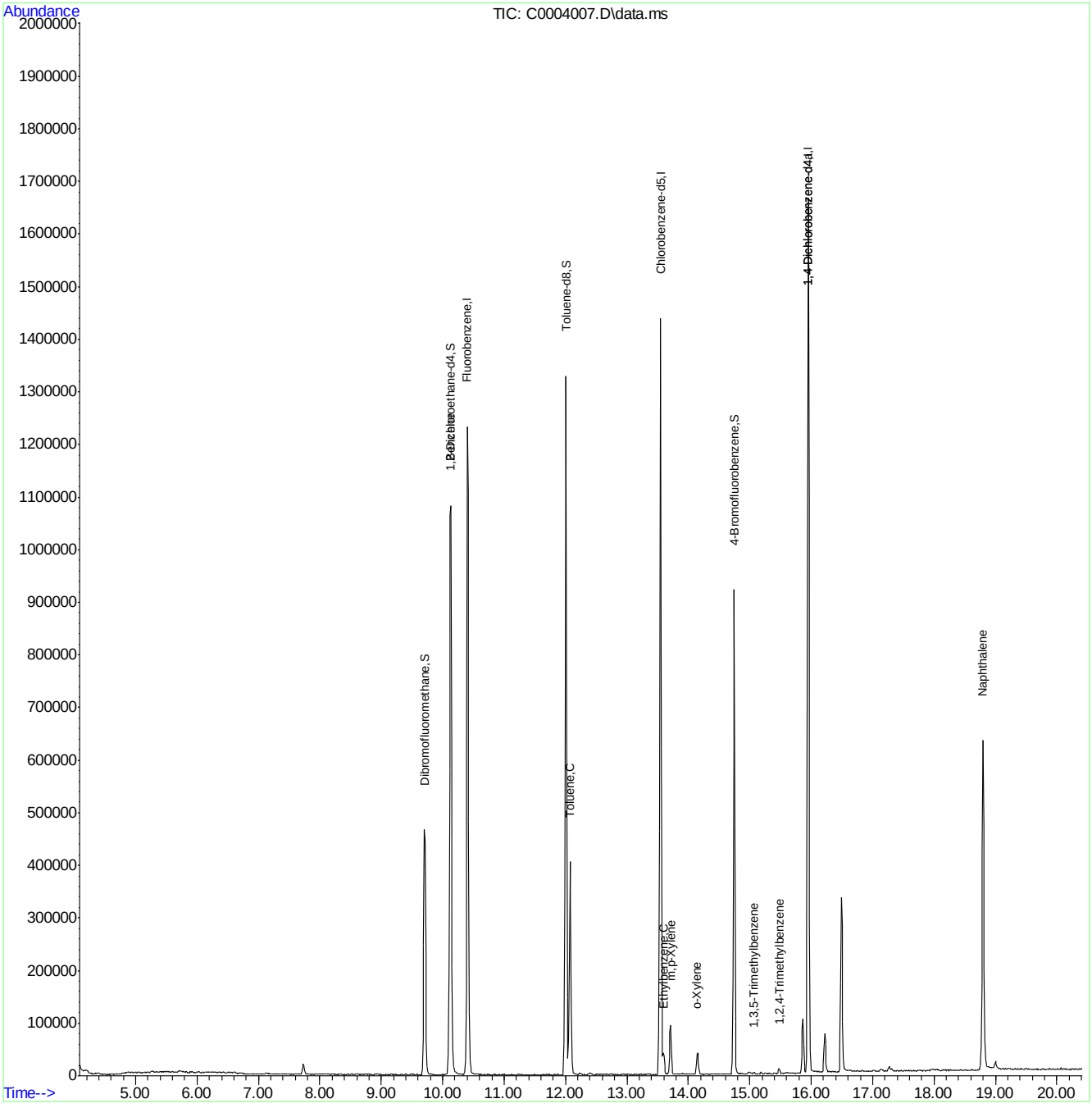
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1200429	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	945582	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	509533	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	509533	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	310069	50.74	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 101.48%			
39) 1,2-Dichloroethane-d4	10.122	65	340593	51.50	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 103.00%			
54) Toluene-d8	12.008	98	930476	47.68	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 95.36%			
74) 4-Bromofluorobenzene	14.746	95	308271	39.01	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 78.02%#			
Target Compounds						Qvalue
40) Benzene	10.133	78	766893	32.25	ug/l	93
55) Toluene	12.073	91	322599	12.66	ug/l	99
66) Ethylbenzene	13.593	91	28342	1.19	ug/l	95
67) m,p-Xylene	13.711	91	61933	1.63	ug/l	98
68) o-Xylene	14.142	91	24823	1.93	ug/l	92
82) 1,3,5-Trimethylbenzene	15.069	105	2183	0.91	ug/l	81
90) 1,2,4-Trimethylbenzene	15.479	105	5920	0.66	ug/l	94
94) Naphthalene	18.798	128	657238	48.30	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

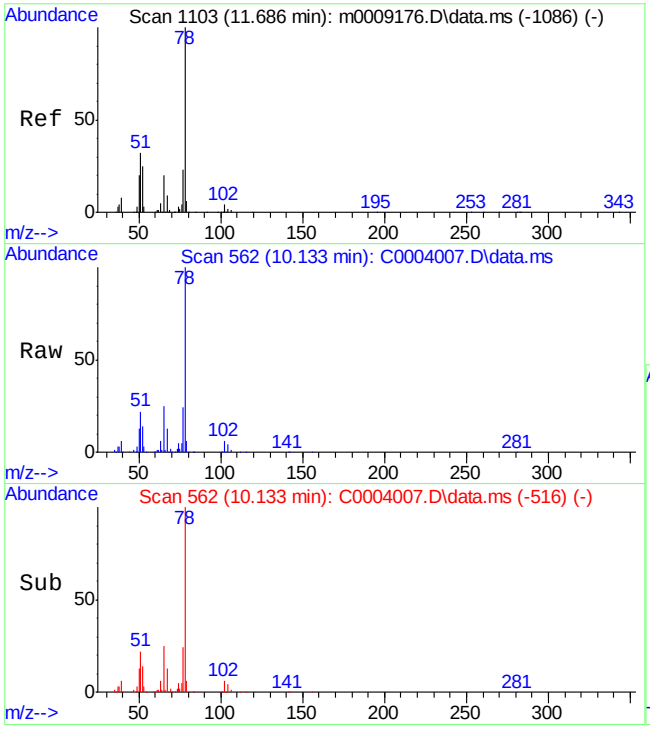
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0004007.D
Acq On : 14 Oct 2009 9:56 pm
Operator : AnjanaP
Sample : t39646-3,100x
Misc : ms7105,VC0175,5,,,5,100,WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 15 10:55:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



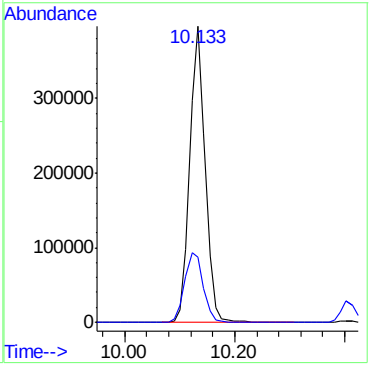
VC168.m Thu Oct 15 11:15:06 2009 Page: 2

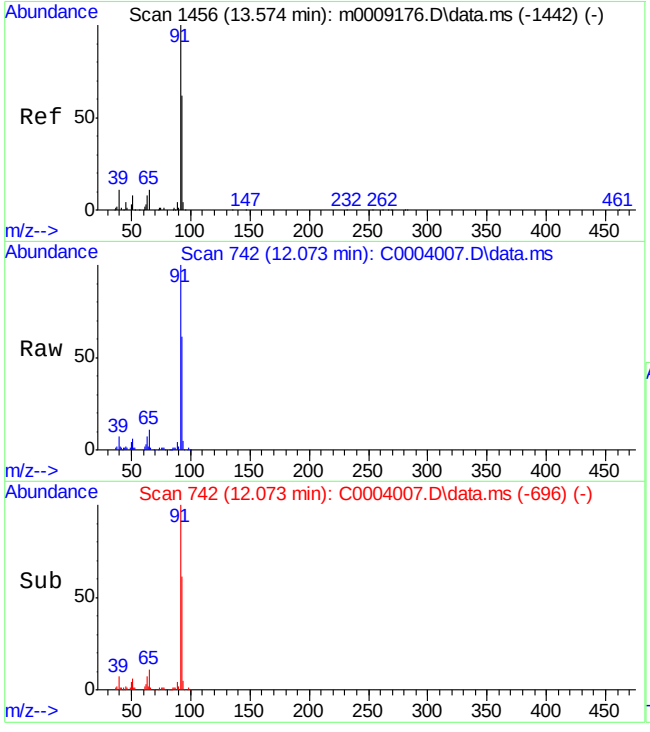


#40
Benzene
Concen: 32.25 ug/l
RT: 10.133 min Scan# 562
Delta R.T. 0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion: 78 Resp: 766893

Ion	Ratio	Lower	Upper
78	100		
51	21.8	0.0	48.7

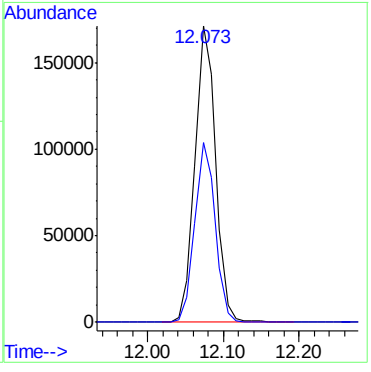


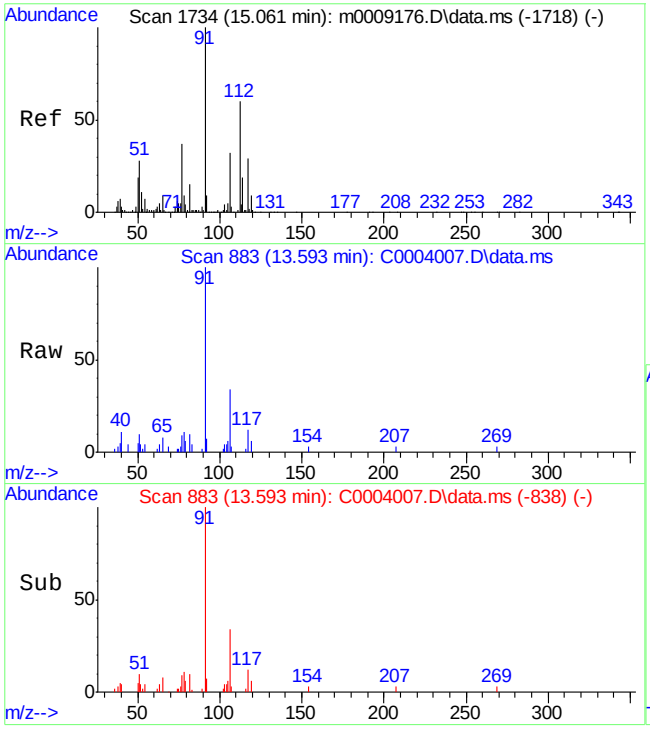


#55
Toluene
Concen: 12.66 ug/l
RT: 12.073 min Scan# 742
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion: 91 Resp: 322599

Ion	Ratio	Lower	Upper
91	100		
92	60.7	29.8	89.8

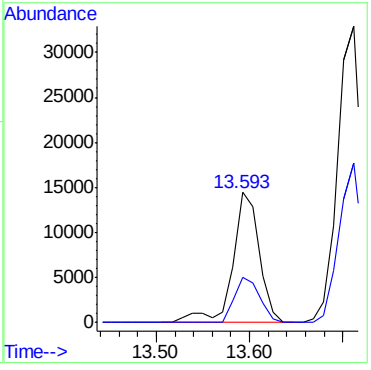


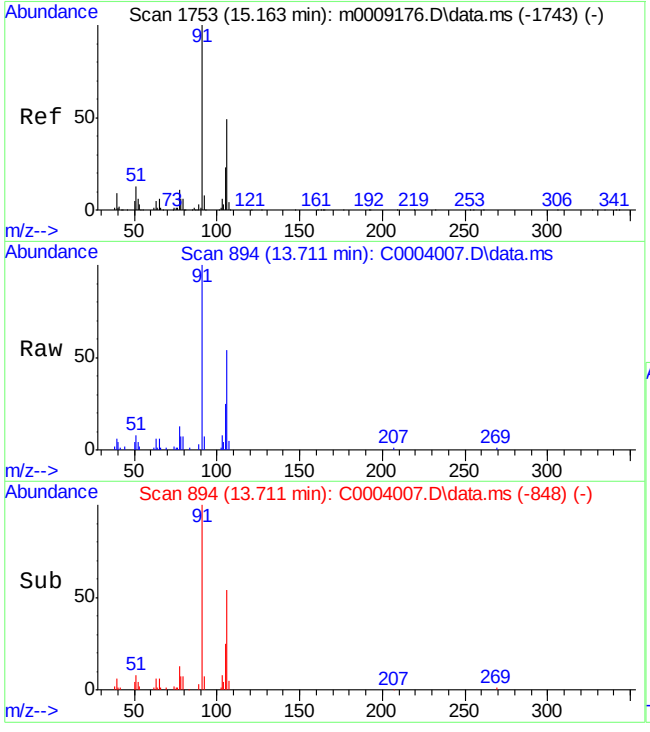


#66
Ethylbenzene
Concen: 1.19 ug/l
RT: 13.593 min Scan# 883
Delta R.T. -0.010 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion: 91 Resp: 28342

Ion	Ratio	Lower	Upper
91	100		
106	34.5	1.5	61.5

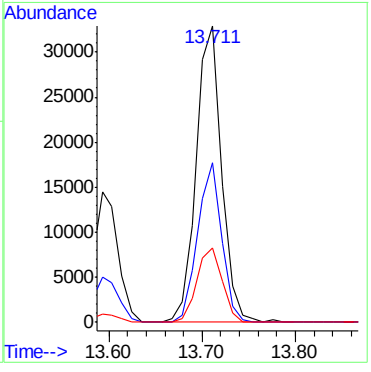


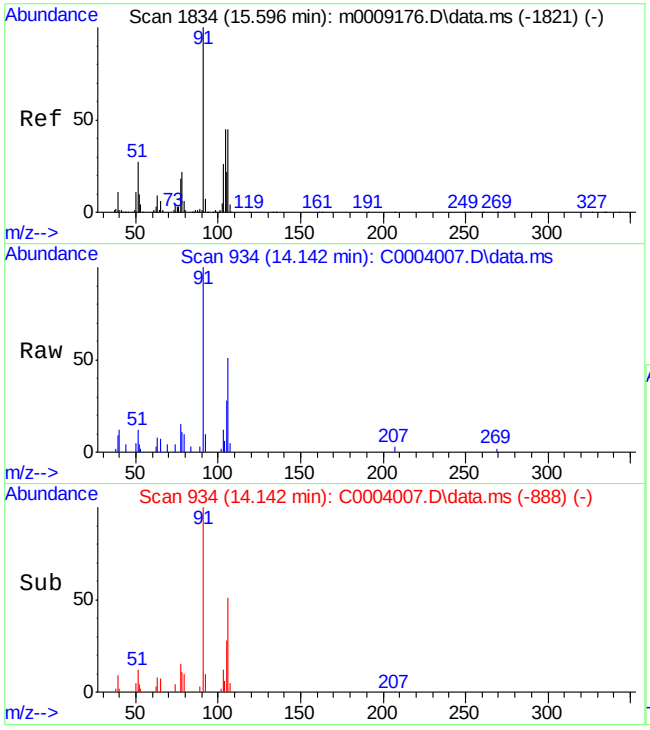


#67
m,p-Xylene
Concen: 1.63 ug/l
RT: 13.711 min Scan# 894
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion: 91 Resp: 61933

Ion	Ratio	Lower	Upper
91	100		
106	53.8	22.4	82.4
105	25.2	0.0	53.9

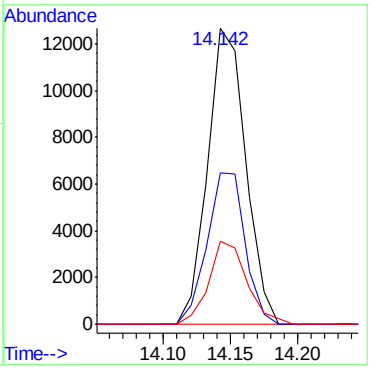


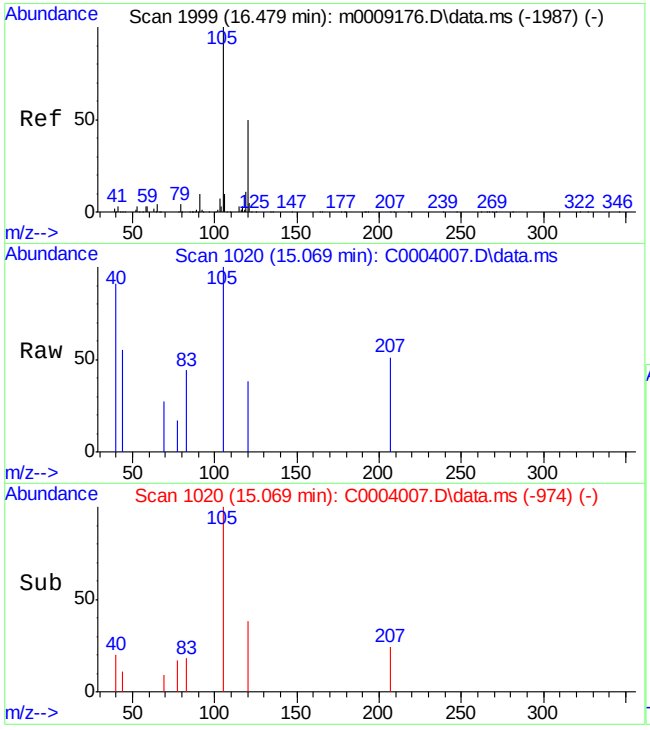


#68
o-Xylene
Concen: 1.93 ug/l
RT: 14.142 min Scan# 934
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion: 91 Resp: 24823

Ion	Ratio	Lower	Upper
91	100		
106	51.1	18.4	78.4
105	28.2	0.0	50.6

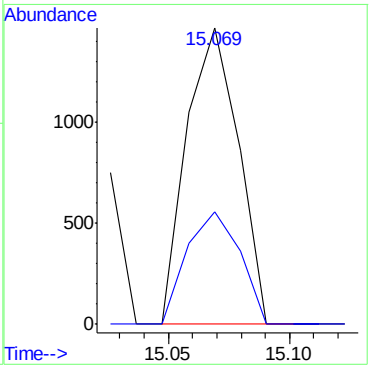


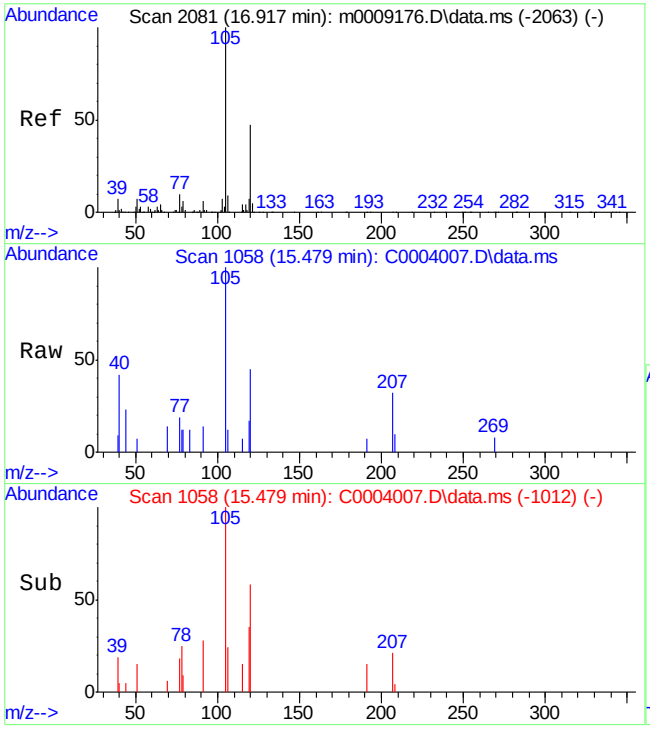


#82
1,3,5-Trimethylbenzene
Concen: 0.91 ug/l
RT: 15.069 min Scan# 1020
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion:105 Resp: 2183

Ion	Ratio	Lower	Upper
105	100		
120	37.7	21.1	81.1

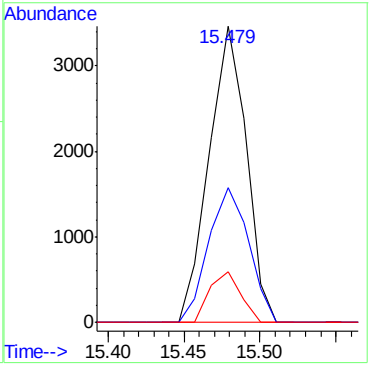


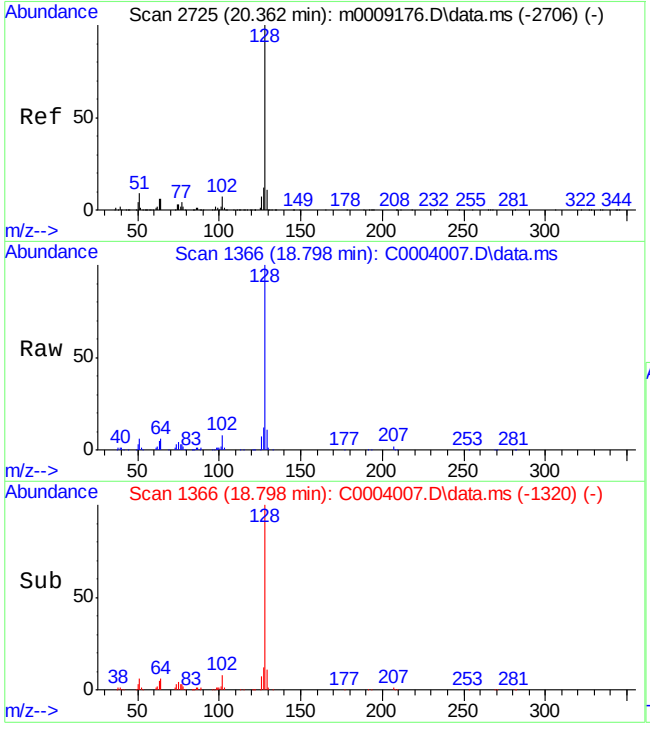


#90
1,2,4-Trimethylbenzene
Concen: 0.66 ug/l
RT: 15.479 min Scan# 1058
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion:105 Resp: 5920

Ion	Ratio	Lower	Upper
105	100		
120	45.5	18.5	78.5
119	17.2	0.0	42.9

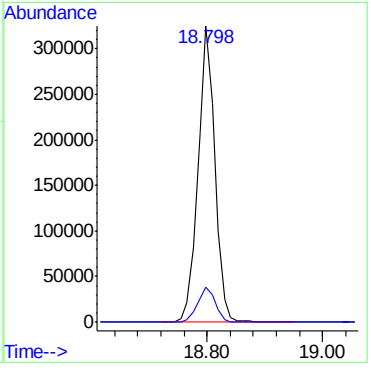




#94
Naphthalene
Concen: 48.30 ug/l
RT: 18.798 min Scan# 1366
Delta R.T. -0.000 min
Lab File: C0004007.D
Acq: 14 Oct 2009 9:56 pm

Tgt Ion:128 Resp: 657238

Ion	Ratio	Lower	Upper
128	100		
127	11.9	0.0	42.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020721.D Vial: 23
Acq On : 13 Oct 2009 8:13 pm Operator: AnjanaP
Sample : t39646-3 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:52 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1205197	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	961600	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.80	152	486462	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	486462	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	329902	46.17	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 92.34%			
45) 1,2-Dichloroethane-d4	10.30	65	353166	38.46	ug/L	0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 76.92%			
62) Toluene-d8	12.59	98	989192	43.76	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.52%			
83) 4-Bromofluorobenzene	16.17	95	419975	45.69	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.38%			

Target Compounds

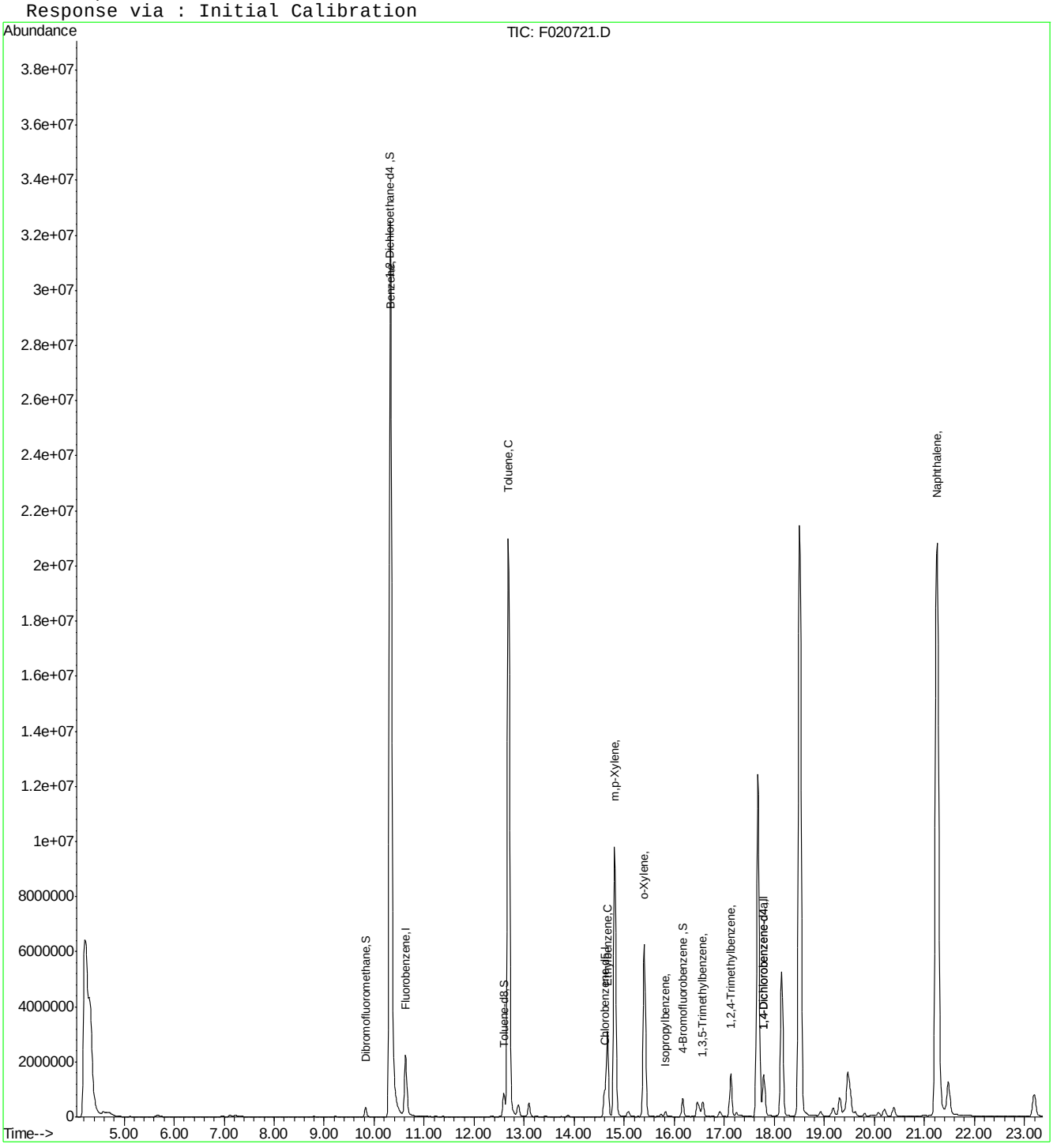
						Qvalue
46) Benzene	10.31	78	36085901	1824.82	ug/L	72
63) Toluene	12.68	91	26083306	1011.36	ug/L #	60
75) Ethylbenzene	14.66	91	4238045	131.96	ug/L	98
76) m,p-Xylene	14.81	91	11054020	447.29	ug/L	93
77) o-Xylene	15.40	91	6078802	236.46	ug/L	95
81) Isopropylbenzene	15.82	105	194043	8.81	ug/L	98
91) 1,3,5-Trimethylbenzene	16.57	105	561793	28.12	ug/L	98
100) 1,2,4-Trimethylbenzene	17.13	105	1784399	83.57	ug/L	98
105) Naphthalene	21.25	128	40567129	5059.29	ug/L	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

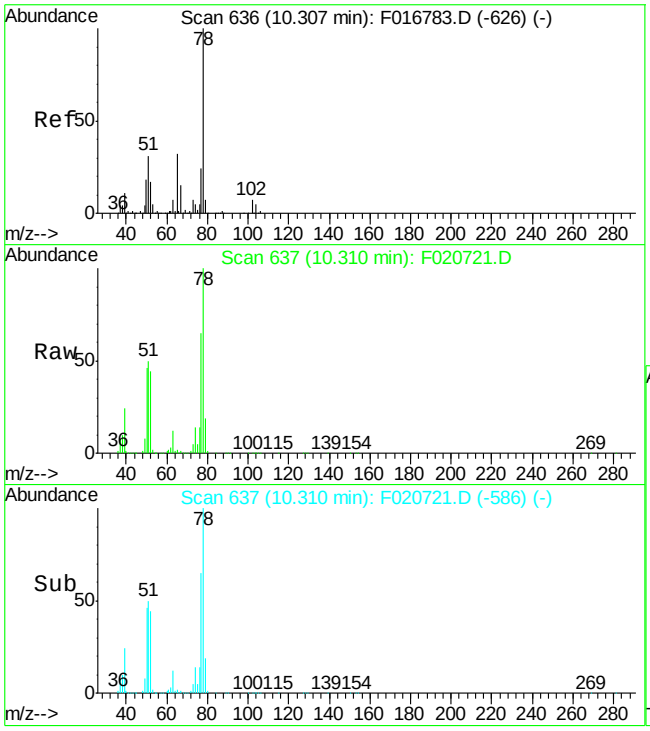
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020721.D Vial: 23
Acq On : 13 Oct 2009 8:13 pm Operator: AnjanaP
Sample : t39646-3 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:30 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



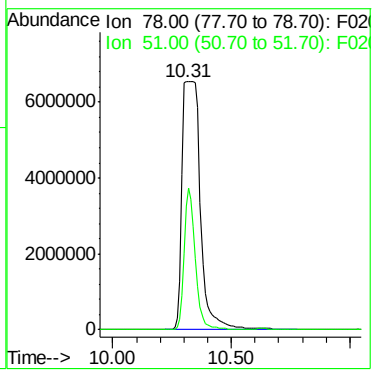
ACCUTEST Laboratories T39646

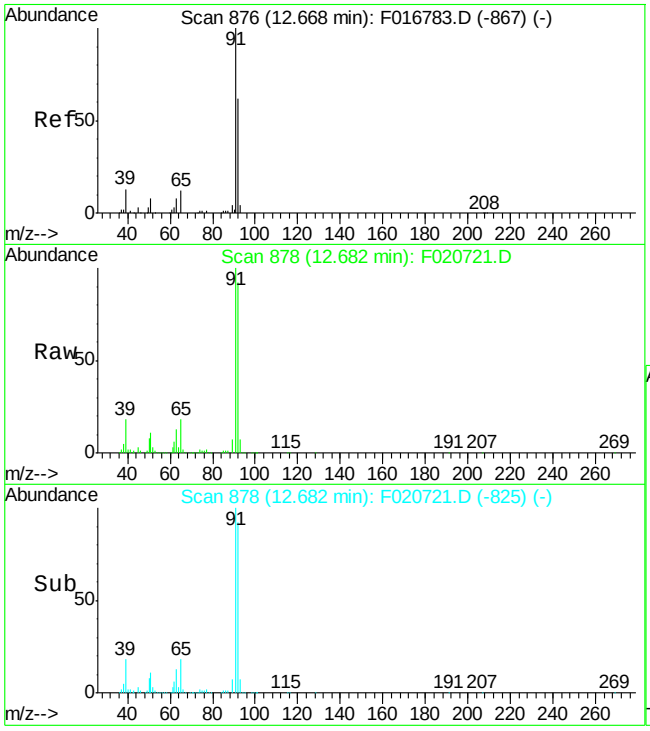


#46
Benzene
Concen: 1824.82 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion: 78 Resp:36085901

Ion	Ratio	Lower	Upper
78	100		
51	50.0	4.0	64.0

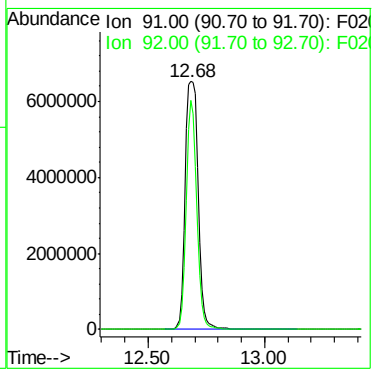


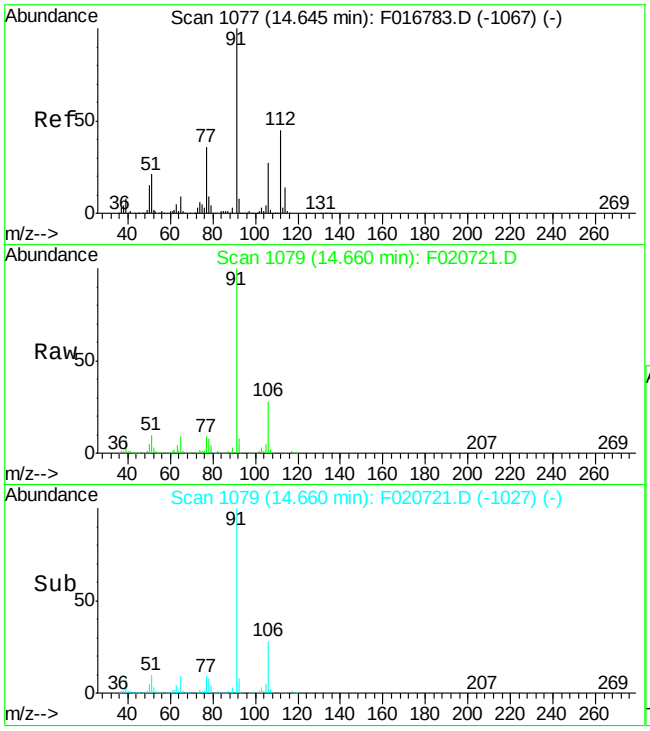


#63
Toluene
Concen: 1011.36 ug/L
RT: 12.68 min Scan# 878
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion: 91 Resp:26083306

Ion	Ratio	Lower	Upper
91	100		
92	92.3	31.7	91.7#

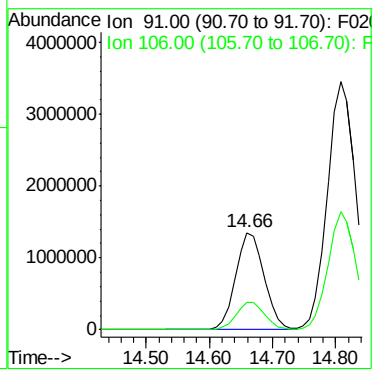


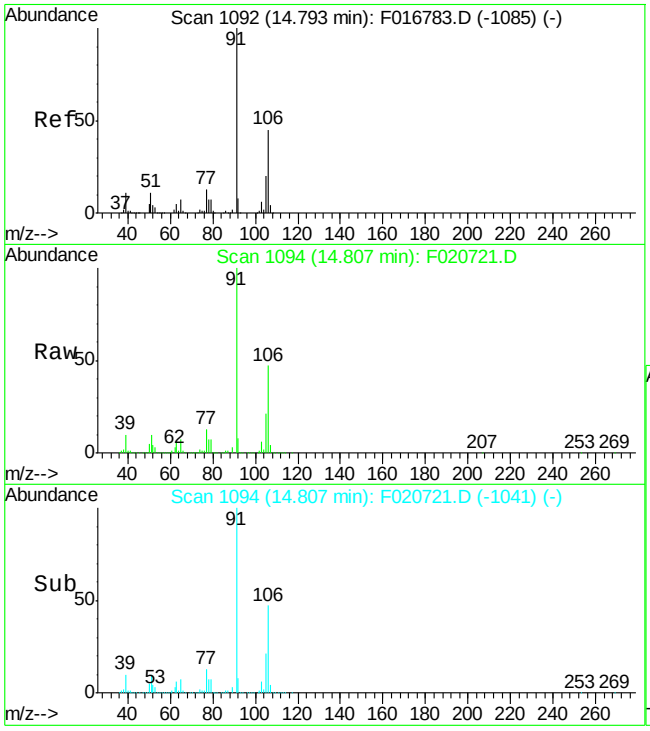


#75
Ethylbenzene
Concen: 131.96 ug/L
RT: 14.66 min Scan# 1079
Delta R.T. 0.01 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion: 91 Resp: 4238045

Ion	Ratio	Lower	Upper
91	100		
106	28.1	0.0	57.1

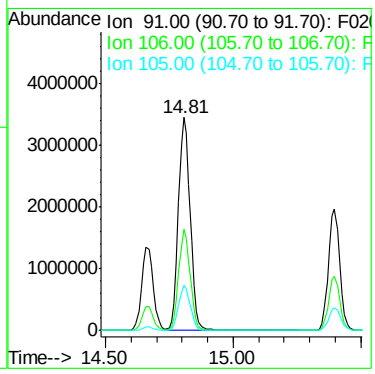


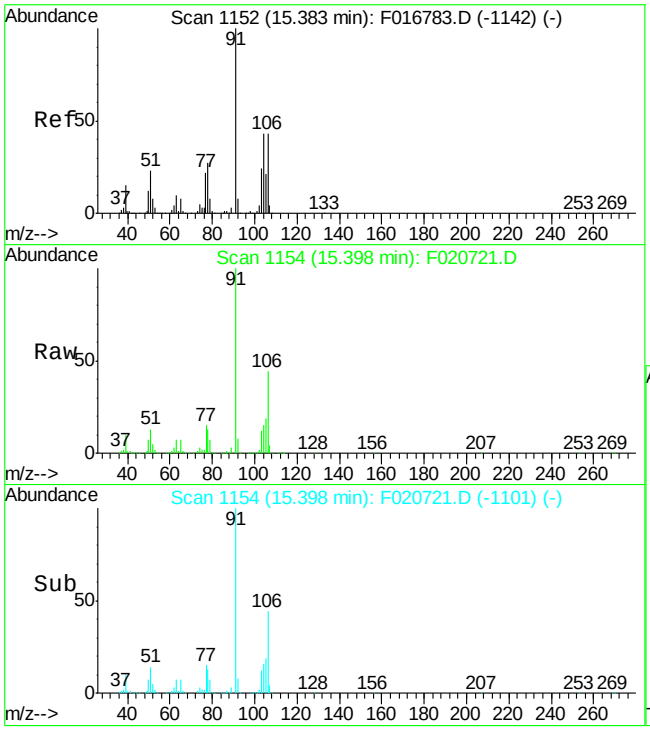


#76
m,p-Xylene
Concen: 447.29 ug/L
RT: 14.81 min Scan# 1094
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion: 91 Resp:11054020

Ion	Ratio	Lower	Upper
91	100		
106	47.4	12.4	72.4
105	21.4	0.0	49.8

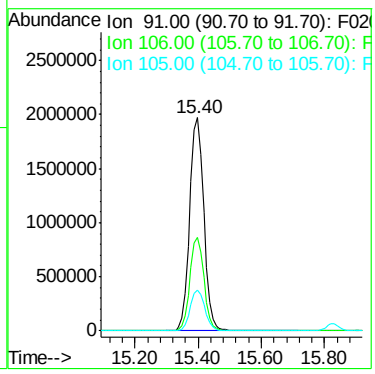


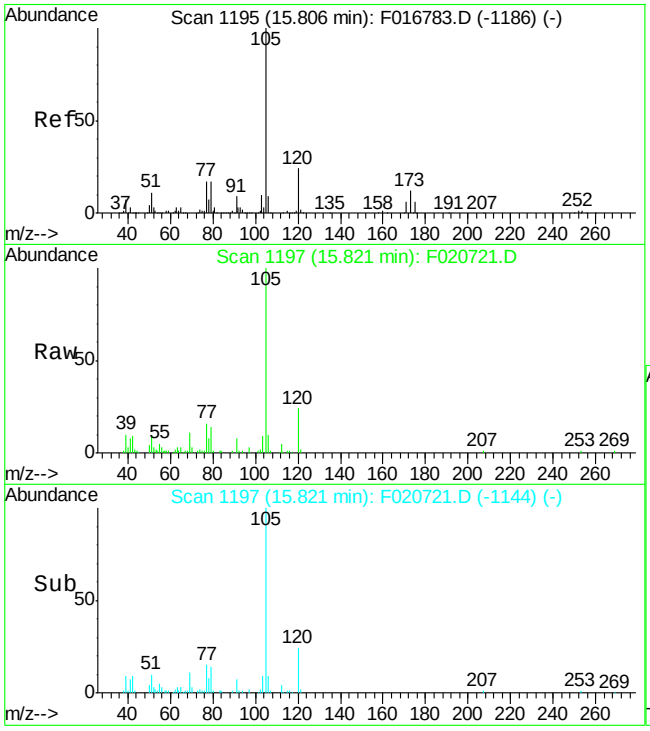


#77
o-Xylene
Concen: 236.46 ug/L
RT: 15.40 min Scan# 1154
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion: 91 Resp: 6078802

Ion	Ratio	Lower	Upper
91	100		
106	44.0	9.6	69.6
105	19.0	0.0	49.9

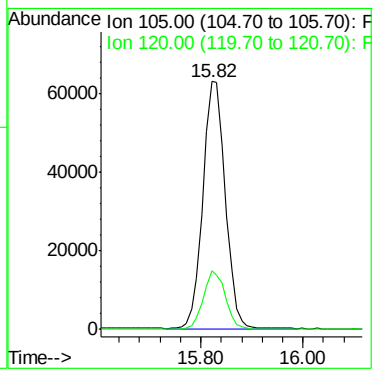


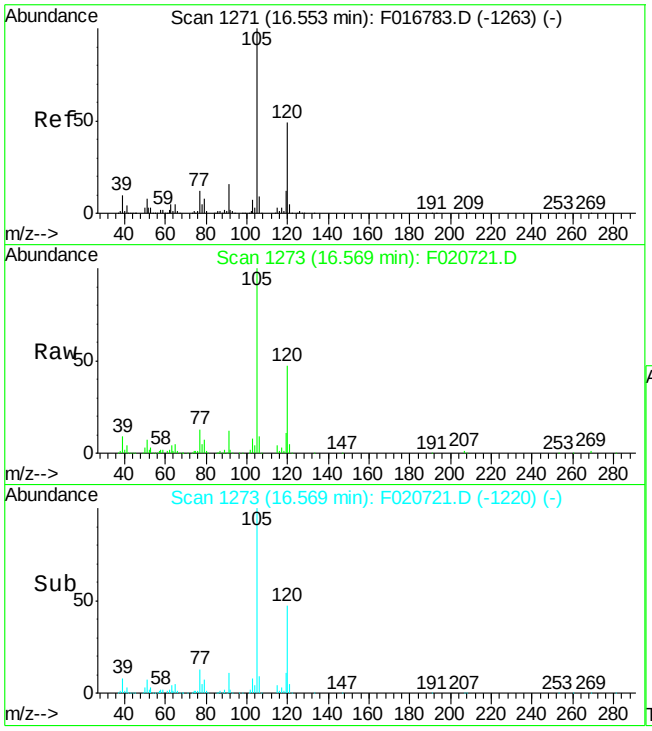


#81
Isopropylbenzene
Concen: 8.81 ug/L
RT: 15.82 min Scan# 1197
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion:105 Resp: 194043

Ion	Ratio	Lower	Upper
105	100		
120	23.8	0.0	52.8

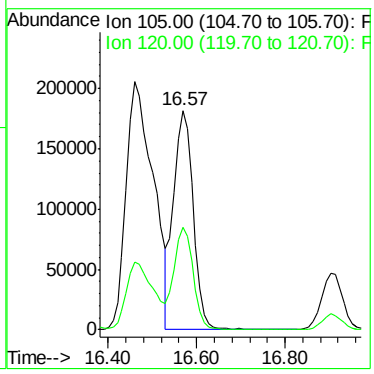


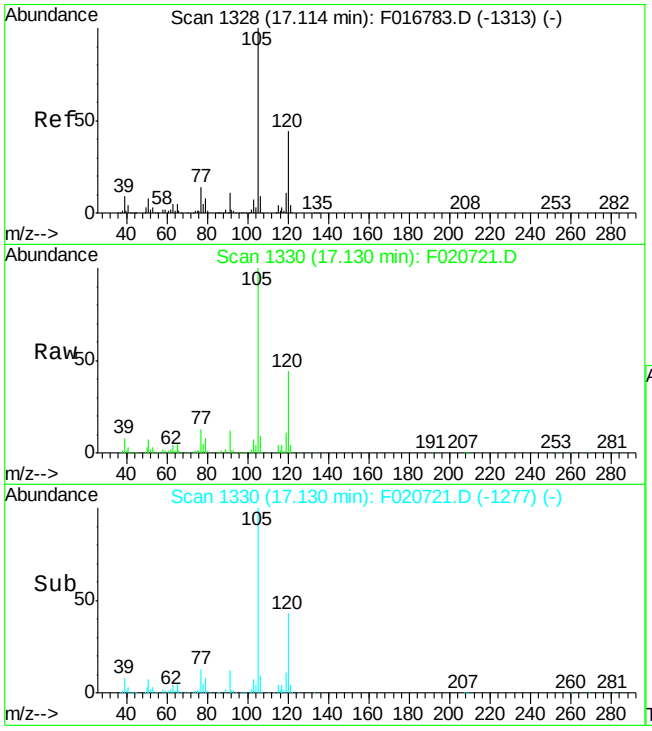


#91
1,3,5-Trimethylbenzene
Concen: 28.12 ug/L
RT: 16.57 min Scan# 1273
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion:105 Resp: 561793

Ion	Ratio	Lower	Upper
105	100		
120	46.7	15.7	75.7

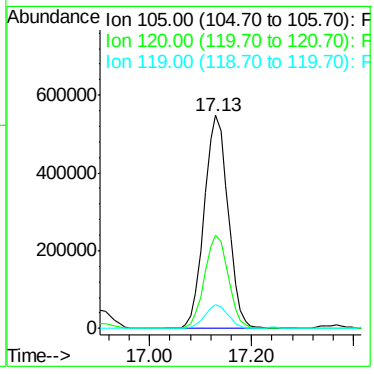


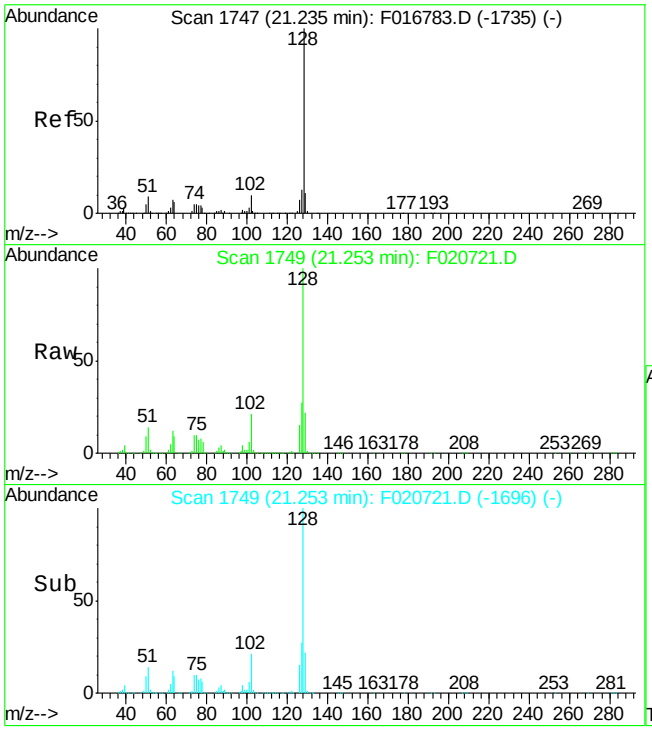


#100
1,2,4-Trimethylbenzene
Concen: 83.57 ug/L
RT: 17.13 min Scan# 1330
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion:105 Resp: 1784399

Ion	Ratio	Lower	Upper
105	100		
120	43.6	12.2	72.2
119	11.0	0.0	40.6

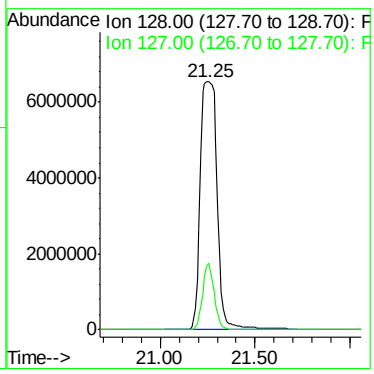




#105
Naphthalene
Concen: 5059.29 ug/L
RT: 21.25 min Scan# 1749
Delta R.T. 0.02 min
Lab File: F020721.D
Acq: 13 Oct 2009 8:13 pm

Tgt Ion:128 Resp:40567129

Ion	Ratio	Lower	Upper
128	100		
127	26.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020728.D Vial: 30
Acq On : 13 Oct 2009 11:43 pm Operator: AnjanaP
Sample : t39646-4 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:43 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	951992	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	769859	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.79	152	432948	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.79	152	432948	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	278111	49.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.54%			
45) 1,2-Dichloroethane-d4	10.29	65	317688	44.08	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 88.16%			
62) Toluene-d8	12.58	98	785781	44.22	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.44%			
83) 4-Bromofluorobenzene	16.15	95	363914	44.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.00%			

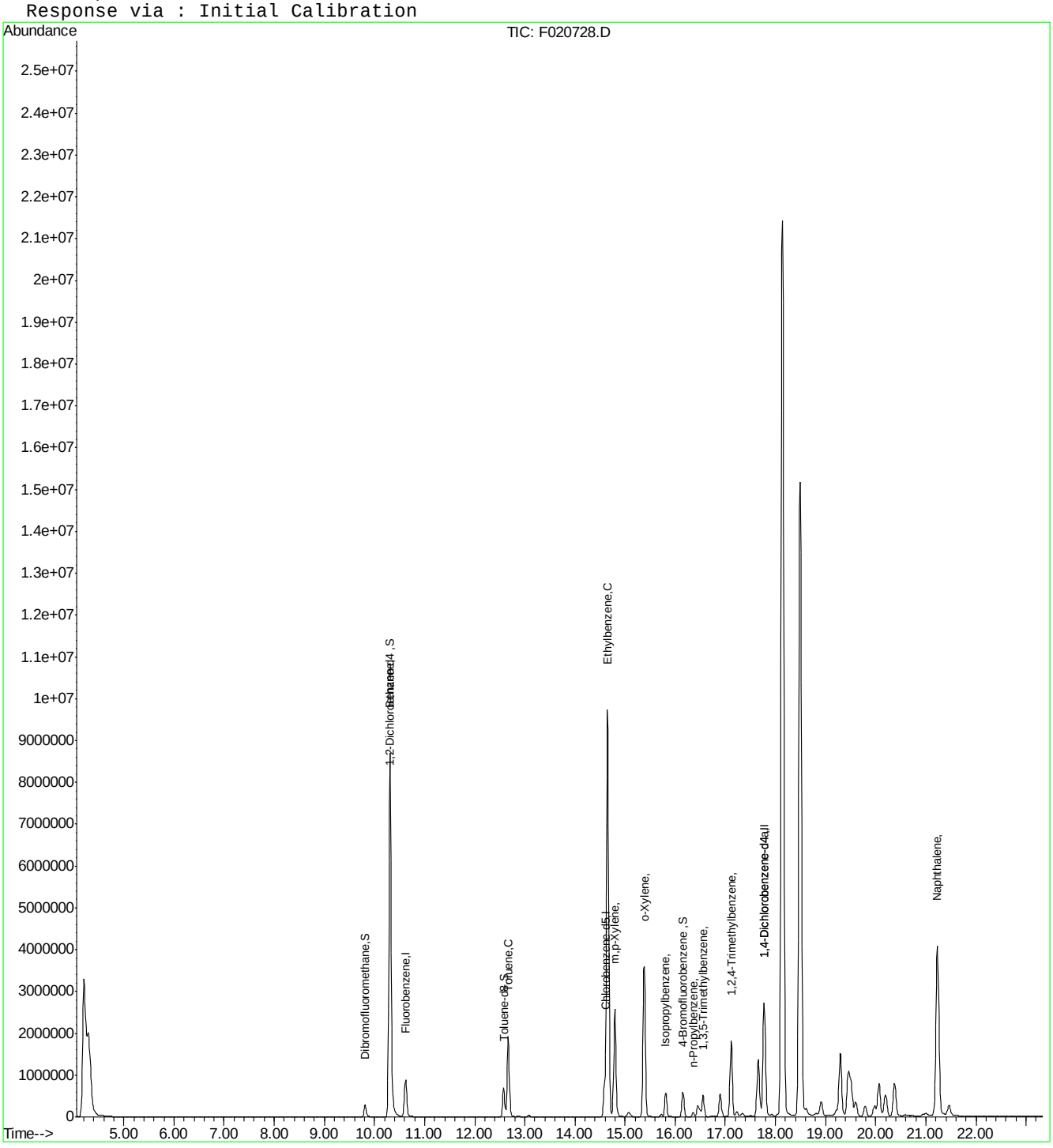
Target Compounds						Qvalue
46) Benzene	10.31	78	11930663	763.79	ug/L	77
63) Toluene	12.67	91	2356113	114.11	ug/L	100
75) Ethylbenzene	14.65	91	13229800	514.55	ug/L	98
76) m,p-Xylene	14.79	91	2889699	146.05	ug/L	97
77) o-Xylene	15.38	91	4048758	196.72	ug/L	95
81) Isopropylbenzene	15.81	105	683382	34.86	ug/L	100
88) n-Propylbenzene	16.36	91	145326	5.41	ug/L	96
91) 1,3,5-Trimethylbenzene	16.56	105	543438	30.56	ug/L	97
100) 1,2,4-Trimethylbenzene	17.12	105	2017240	106.15	ug/L	100
105) Naphthalene	21.23	128	8216167	1149.71	ug/L	99

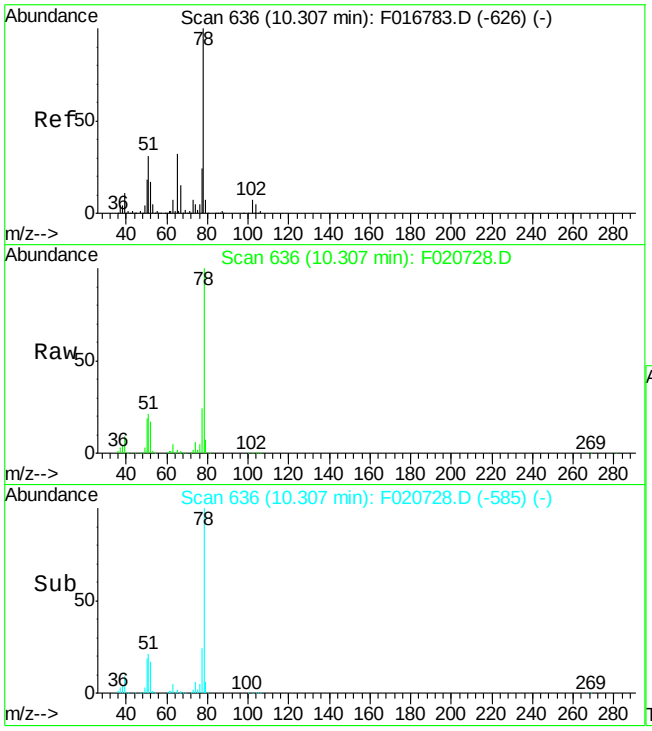
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020728.D Vial: 30
Acq On : 13 Oct 2009 11:43 pm Operator: AnjanaP
Sample : t39646-4 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:32 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

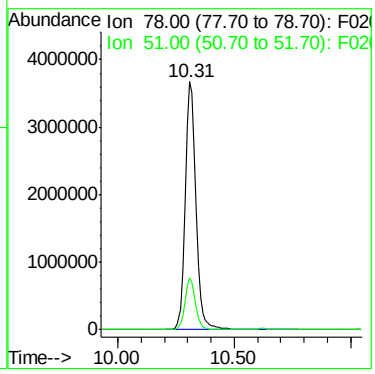


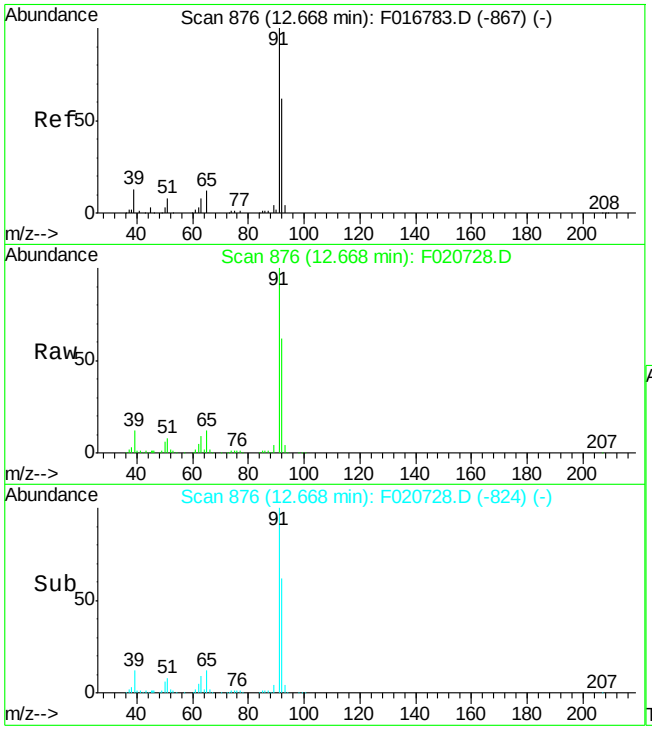


#46
Benzene
Concen: 763.79 ug/L
RT: 10.31 min Scan# 636
Delta R.T. -0.00 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 78 Resp:11930663

Ion	Ratio	Lower	Upper
78	100		
51	20.8	4.0	64.0

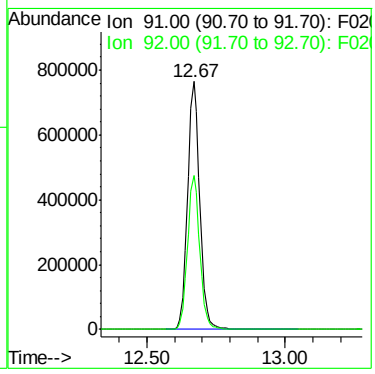


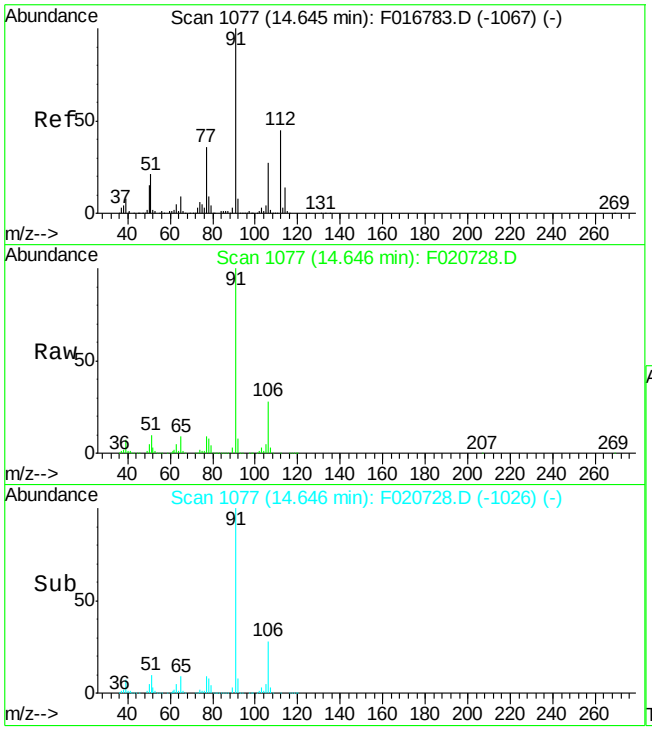


#63
Toluene
Concen: 114.11 ug/L
RT: 12.67 min Scan# 876
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 91 Resp: 2356113

Ion	Ratio	Lower	Upper
91	100		
92	62.1	31.7	91.7

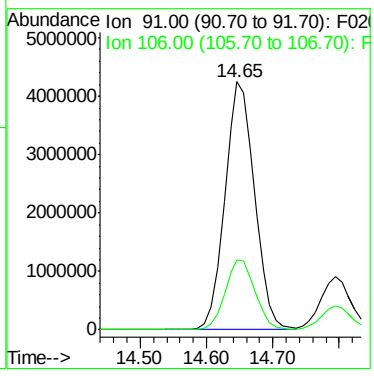


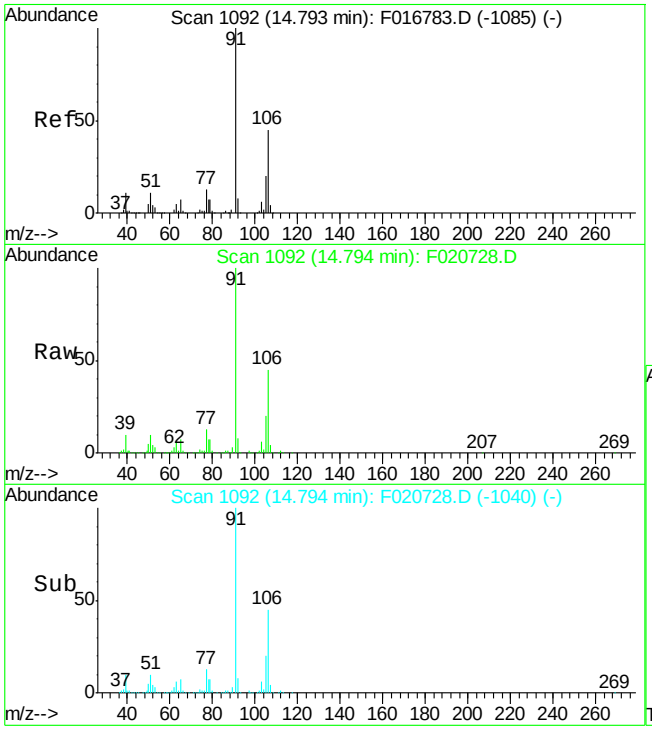


#75
Ethylbenzene
Concen: 514.55 ug/L
RT: 14.65 min Scan# 1077
Delta R.T. -0.00 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 91 Resp:13229800

Ion	Ratio	Lower	Upper
91	100		
106	28.4	0.0	57.1

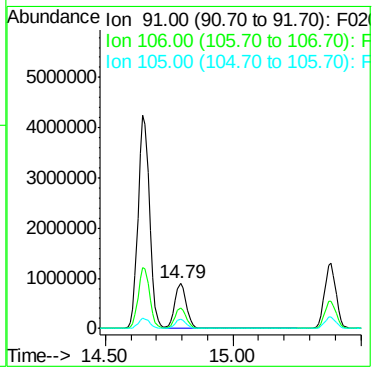


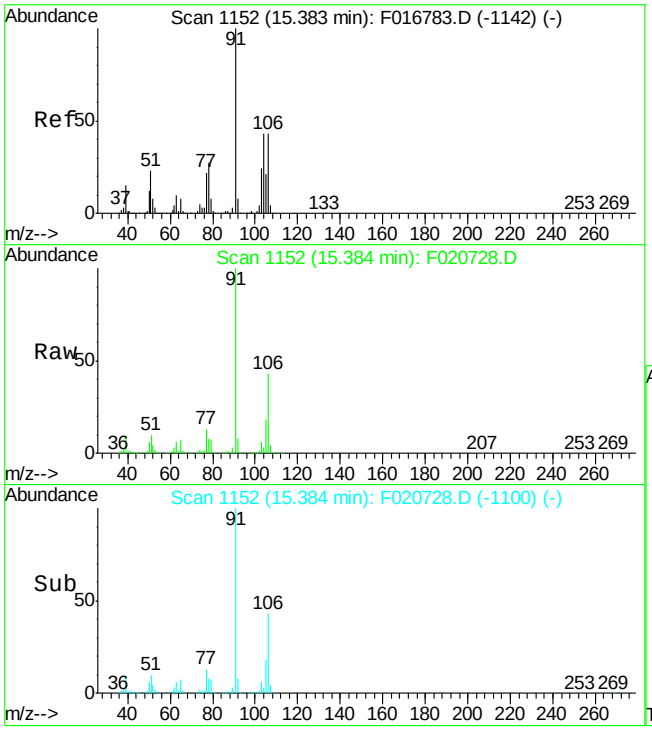


#76
m,p-Xylene
Concen: 146.05 ug/L
RT: 14.79 min Scan# 1092
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 91 Resp: 2889699

Ion	Ratio	Lower	Upper
91	100		
106	45.3	12.4	72.4
105	20.3	0.0	49.8

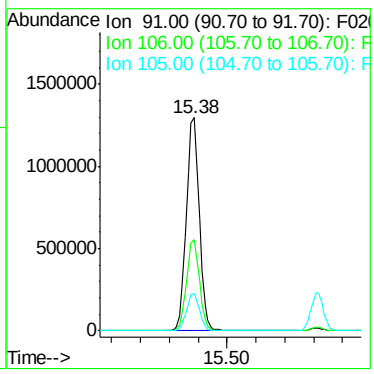


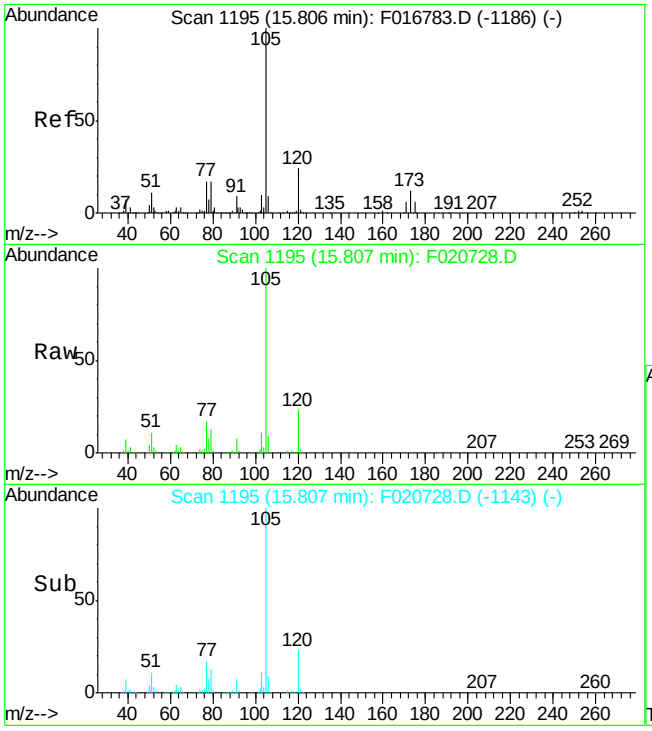


#77
o-Xylene
Concen: 196.72 ug/L
RT: 15.38 min Scan# 1152
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 91 Resp: 4048758

Ion	Ratio	Lower	Upper
91	100		
106	42.5	9.6	69.6
105	17.6	0.0	49.9

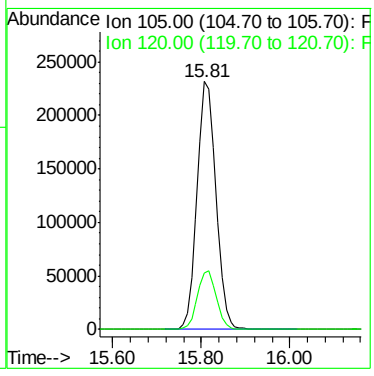


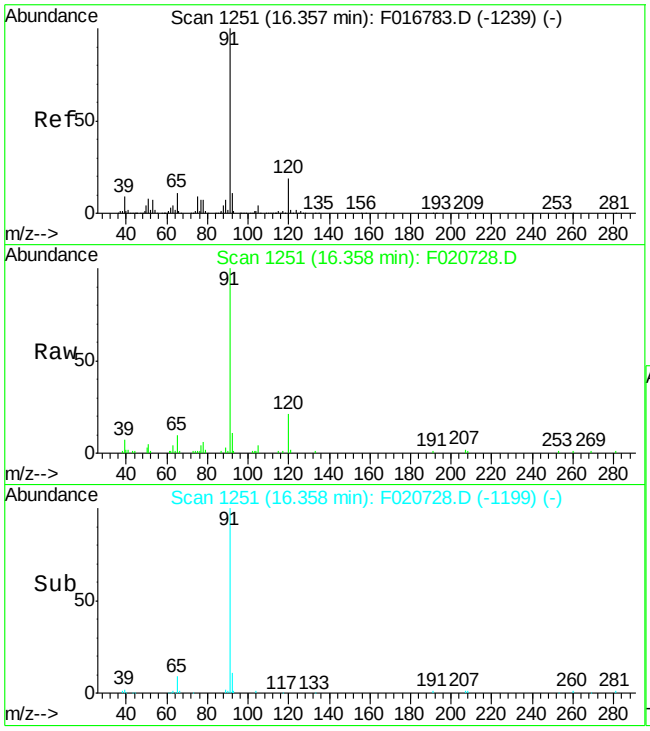


#81
Isopropylbenzene
Concen: 34.86 ug/L
RT: 15.81 min Scan# 1195
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion:105 Resp: 683382

Ion	Ratio	Lower	Upper
105	100		
120	22.7	0.0	52.8

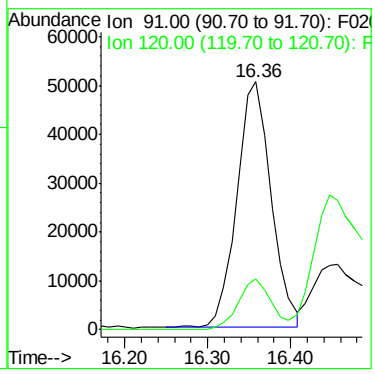


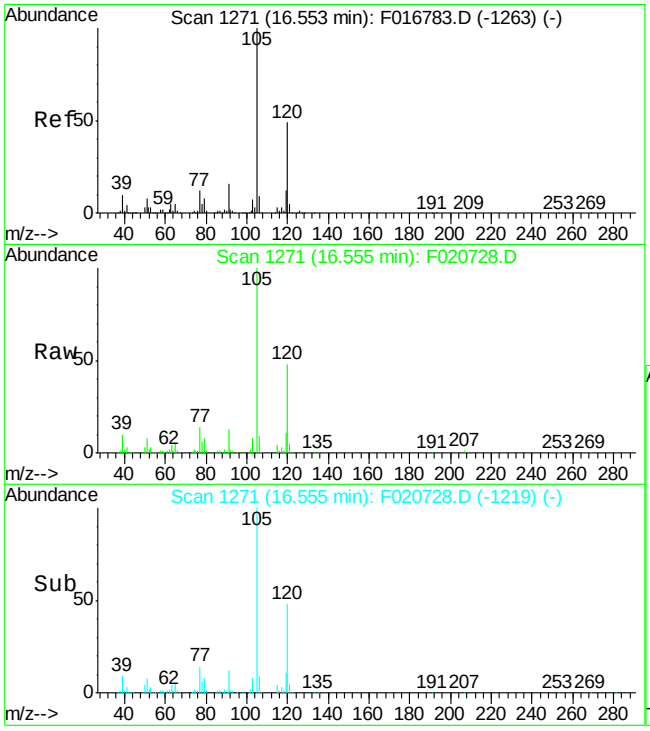


#88
n-Propylbenzene
Concen: 5.41 ug/L
RT: 16.36 min Scan# 1251
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion: 91 Resp: 145326

Ion	Ratio	Lower	Upper
91	100		
120	20.9	0.0	49.3

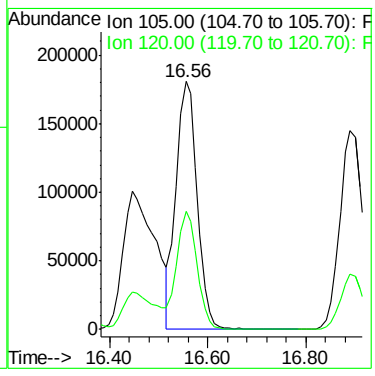


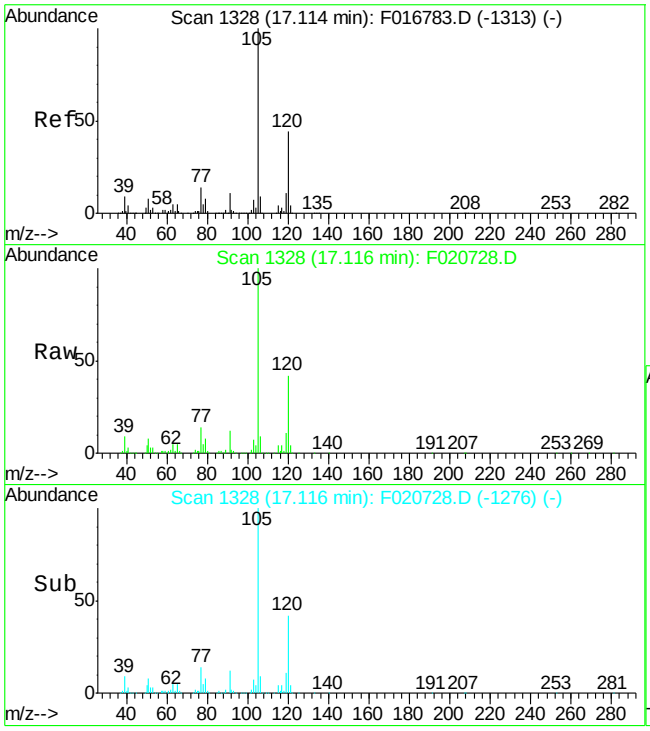


#91
1,3,5-Trimethylbenzene
Concen: 30.56 ug/L
RT: 16.56 min Scan# 1271
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion:105 Resp: 543438

Ion	Ratio	Lower	Upper
105	100		
120	47.7	15.7	75.7

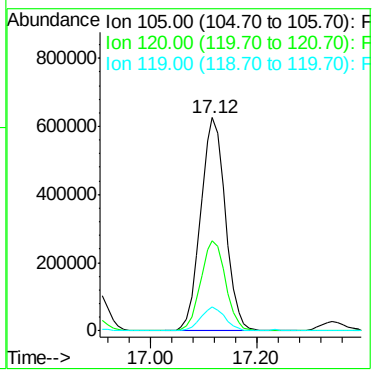


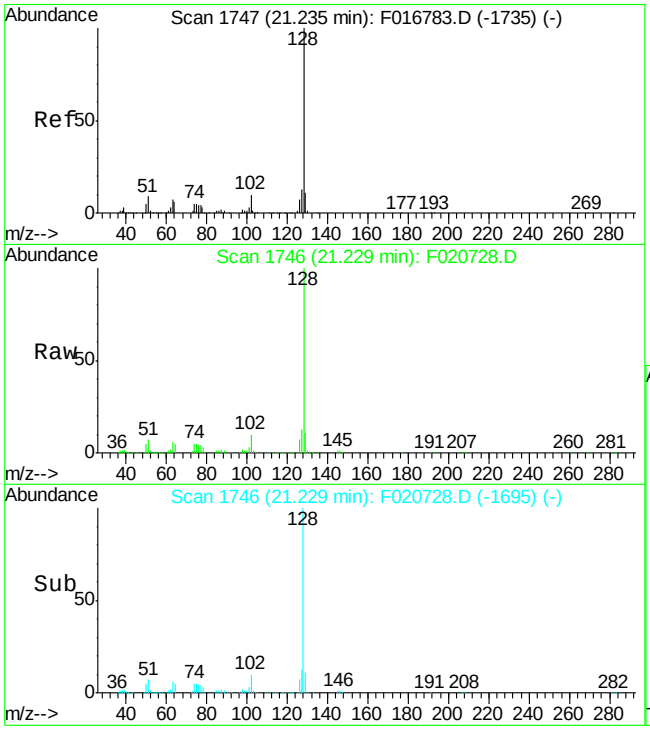


#100
1,2,4-Trimethylbenzene
Concen: 106.15 ug/L
RT: 17.12 min Scan# 1328
Delta R.T. 0.01 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion:105 Resp: 2017240

Ion	Ratio	Lower	Upper
105	100		
120	42.1	12.2	72.2
119	11.1	0.0	40.6

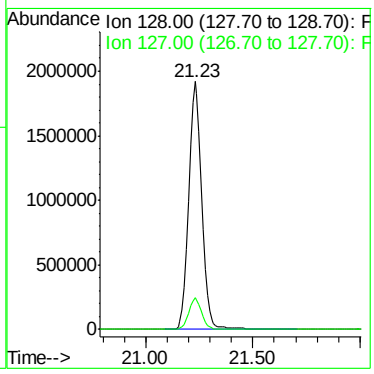




#105
Naphthalene
Concen: 1149.71 ug/L
RT: 21.23 min Scan# 1746
Delta R.T. -0.00 min
Lab File: F020728.D
Acq: 13 Oct 2009 11:43 pm

Tgt Ion:128 Resp: 8216167

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020786.D Vial: 14
Acq On : 15 Oct 2009 3:52 pm Operator: AnjanaP
Sample : t39646-4,10x Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 16:29:33 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.65	96	1066022	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.62	117	745001	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.81	152	425403	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.81	152	425403	50.00	ug/kg	0.03

System Monitoring Compounds						
39) Dibromofluoromethane	9.85	113	289714	45.84	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 91.68%			
45) 1,2-Dichloroethane-d4	10.33	65	357105	44.26	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 88.52%			
62) Toluene-d8	12.61	98	832263	48.17	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 96.34%			
83) 4-Bromofluorobenzene	16.18	95	362938	45.16	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.32%			

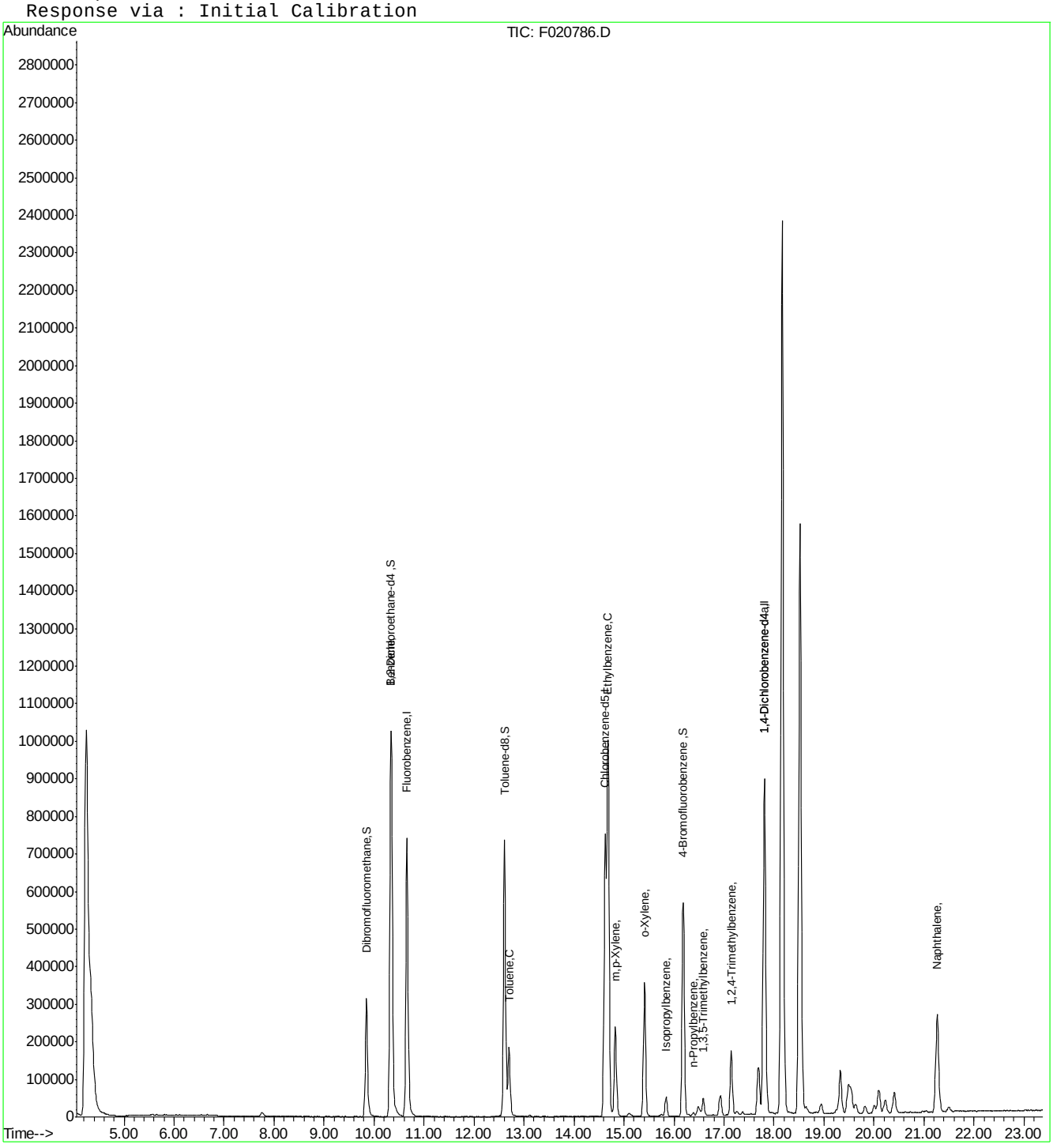
Target Compounds						Qvalue
46) Benzene	10.35	78	1167074	66.72	ug/L	84
63) Toluene	12.70	91	218815	10.95	ug/L	100
75) Ethylbenzene	14.68	91	1299129	52.21	ug/L	100
76) m,p-Xylene	14.83	91	284176	14.84	ug/L	99
77) o-Xylene	15.41	91	393904	19.78	ug/L	96
81) Isopropylbenzene	15.84	105	60369	3.13	ug/L	97
88) n-Propylbenzene	16.39	91	13923	0.53	ug/L	96
91) 1,3,5-Trimethylbenzene	16.59	105	51486	2.95	ug/L	93
100) 1,2,4-Trimethylbenzene	17.15	105	190635	10.21	ug/L	99
105) Naphthalene	21.26	128	522028	72.39	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

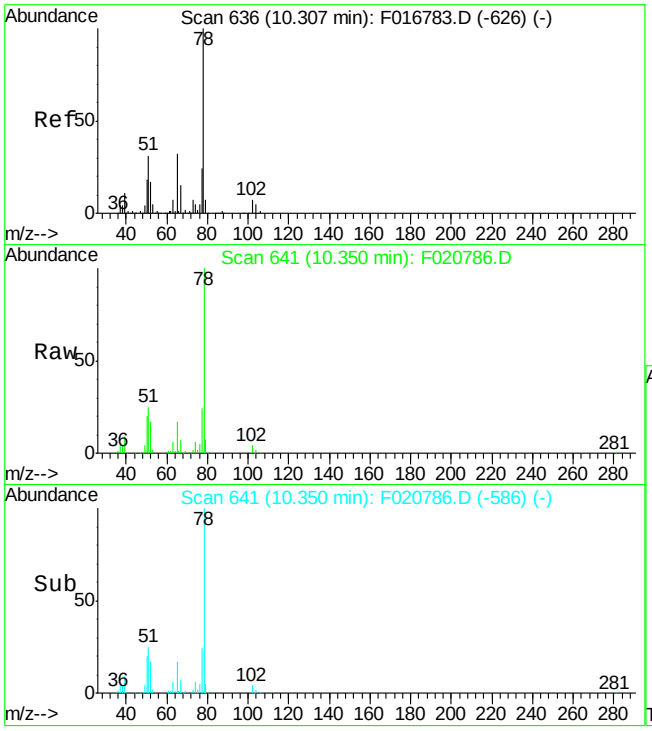
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020786.D Vial: 14
Acq On : 15 Oct 2009 3:52 pm Operator: AnjanaP
Sample : t39646-4,10x Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 16:30 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration



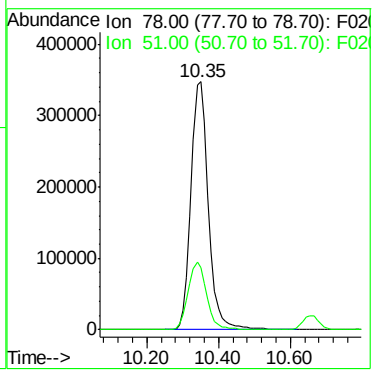
ACCUTEST Laboratories T39646

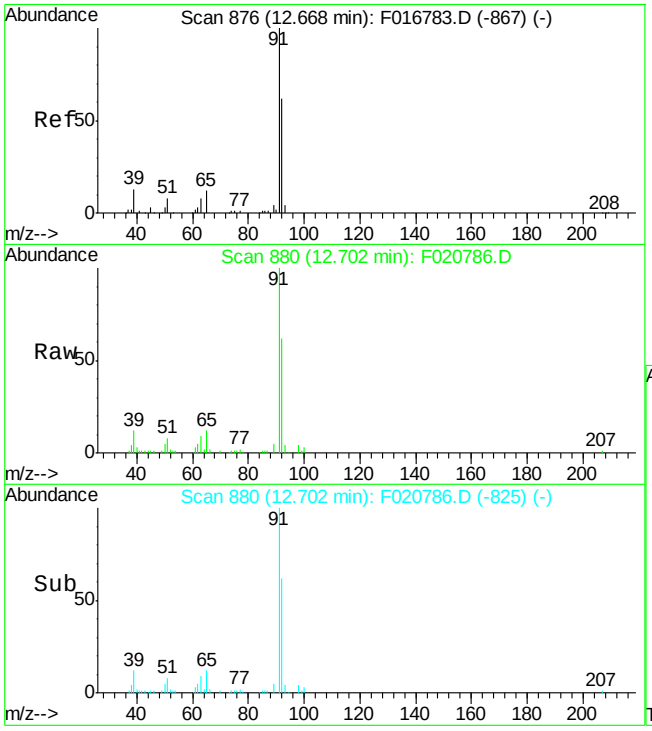


#46
Benzene
Concen: 66.72 ug/L
RT: 10.35 min Scan# 641
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 78 Resp: 1167074

Ion	Ratio	Lower	Upper
78	100		
51	25.0	4.0	64.0

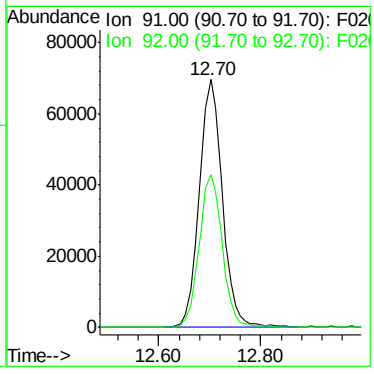


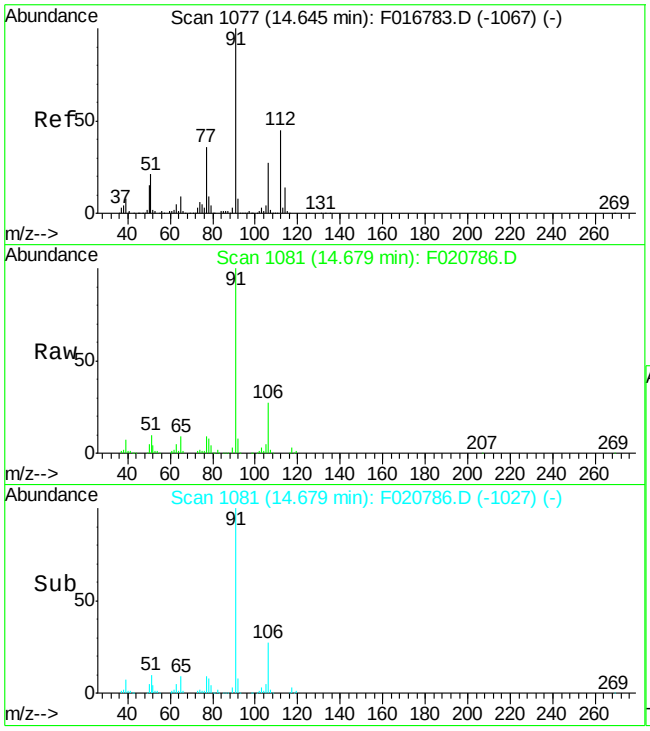


#63
Toluene
Concen: 10.95 ug/L
RT: 12.70 min Scan# 880
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 91 Resp: 218815

Ion	Ratio	Lower	Upper
91	100		
92	61.8	31.7	91.7

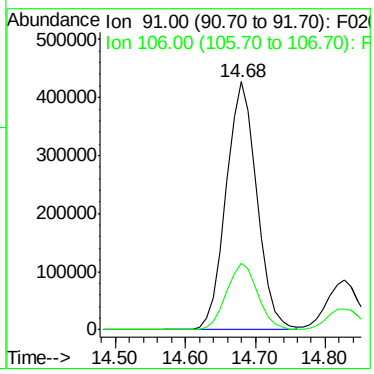


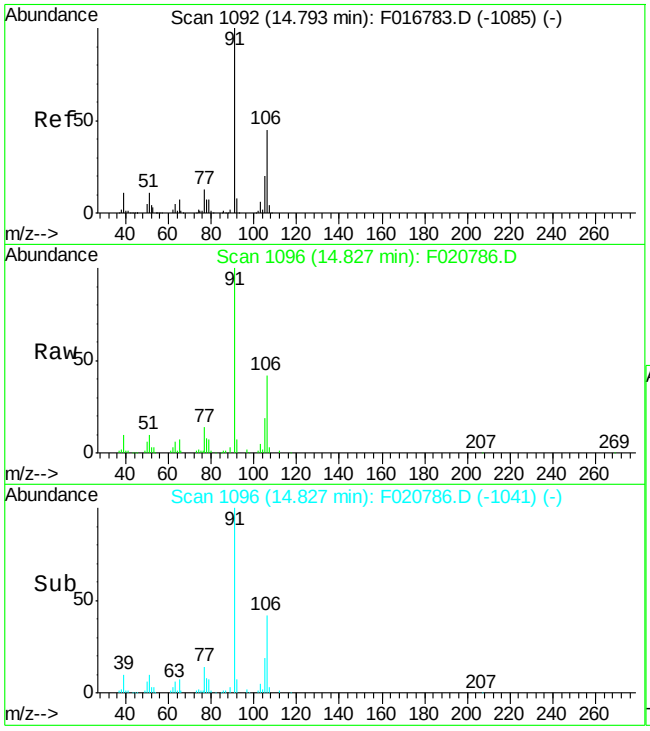


#75
Ethylbenzene
Concen: 52.21 ug/L
RT: 14.68 min Scan# 1081
Delta R.T. 0.03 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 91 Resp: 1299129

Ion	Ratio	Lower	Upper
91	100		
106	26.9	0.0	57.1

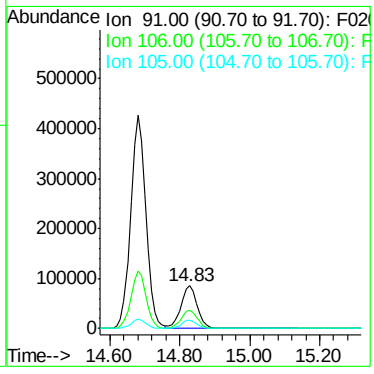


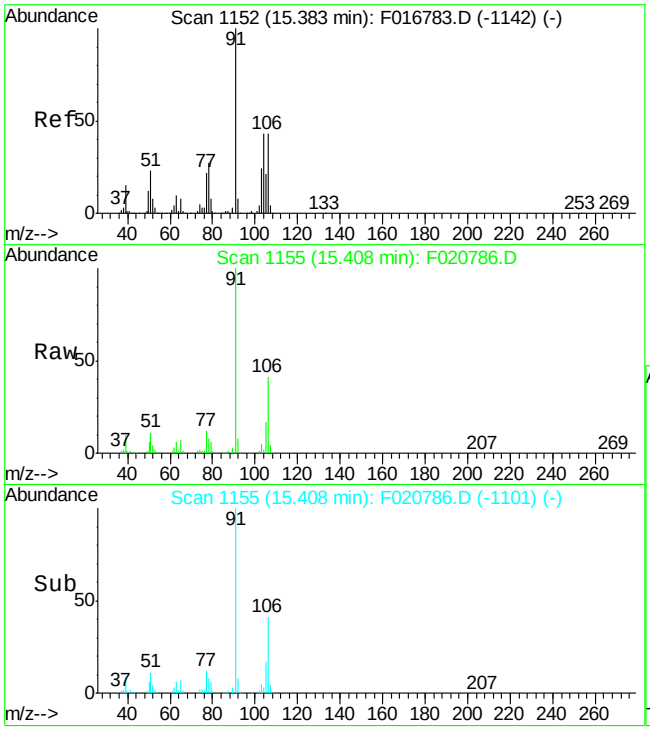


#76
m,p-Xylene
Concen: 14.84 ug/L
RT: 14.83 min Scan# 1096
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 91 Resp: 284176

Ion	Ratio	Lower	Upper
91	100		
106	41.8	12.4	72.4
105	19.1	0.0	49.8

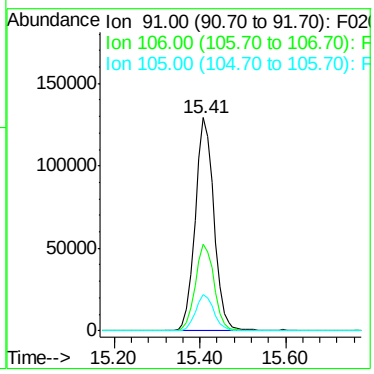


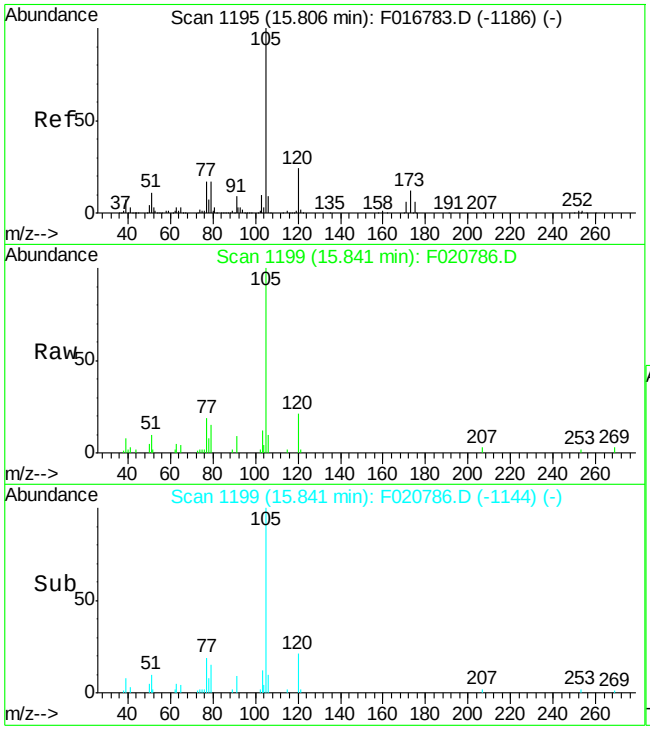


#77
o-Xylene
Concen: 19.78 ug/L
RT: 15.41 min Scan# 1155
Delta R.T. 0.03 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 91 Resp: 393904

Ion	Ratio	Lower	Upper
91	100		
106	40.8	9.6	69.6
105	16.9	0.0	49.9

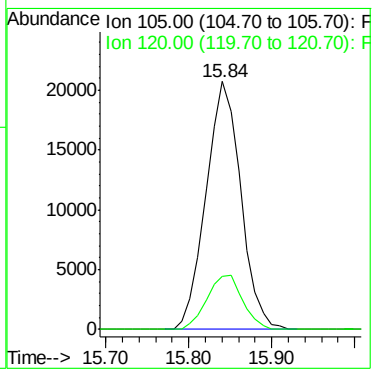


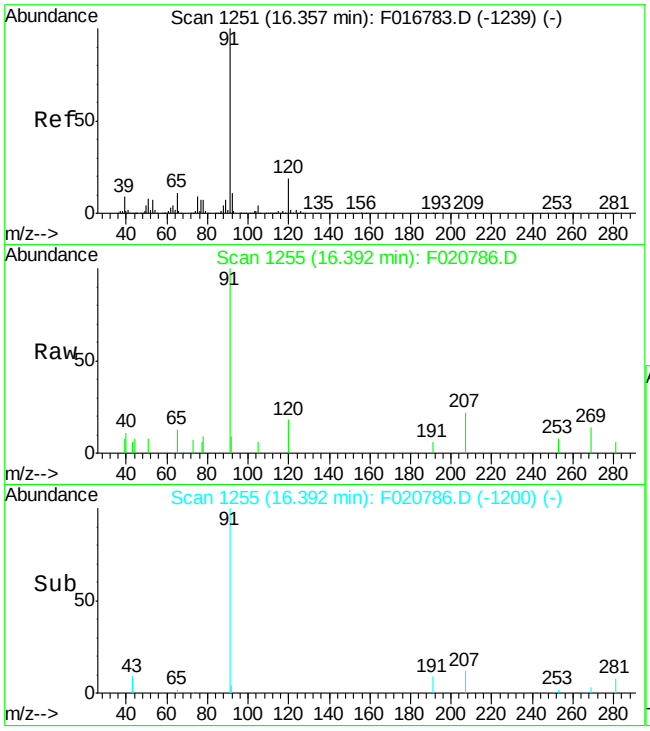


#81
Isopropylbenzene
Concen: 3.13 ug/L
RT: 15.84 min Scan# 1199
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion:105 Resp: 60369

Ion	Ratio	Lower	Upper
105	100		
120	21.3	0.0	52.8

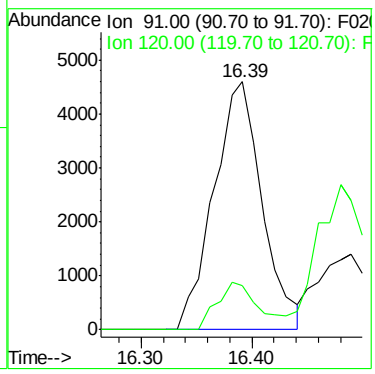


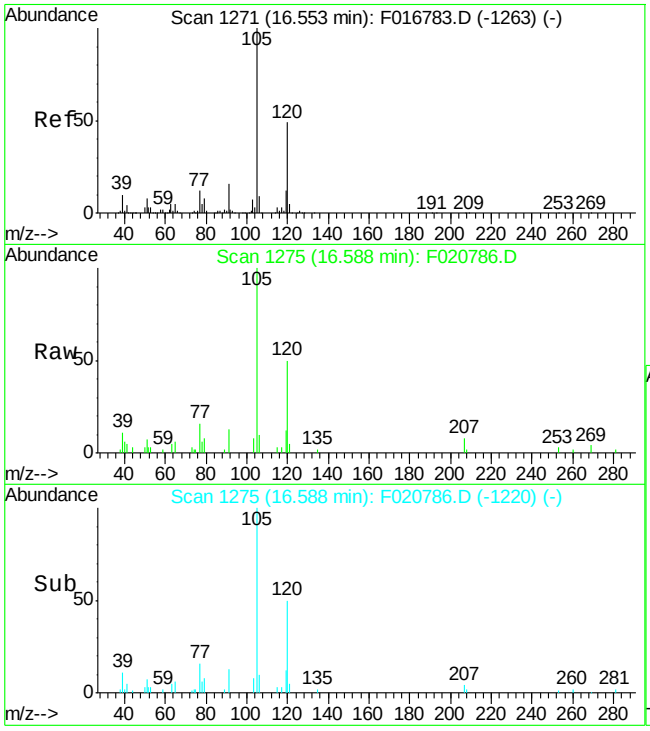


#88
n-Propylbenzene
Concen: 0.53 ug/L
RT: 16.39 min Scan# 1255
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion: 91 Resp: 13923

Ion	Ratio	Lower	Upper
91	100		
120	17.7	0.0	49.3

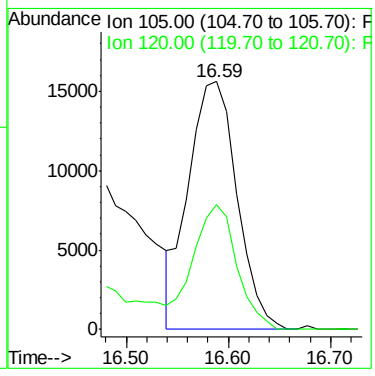


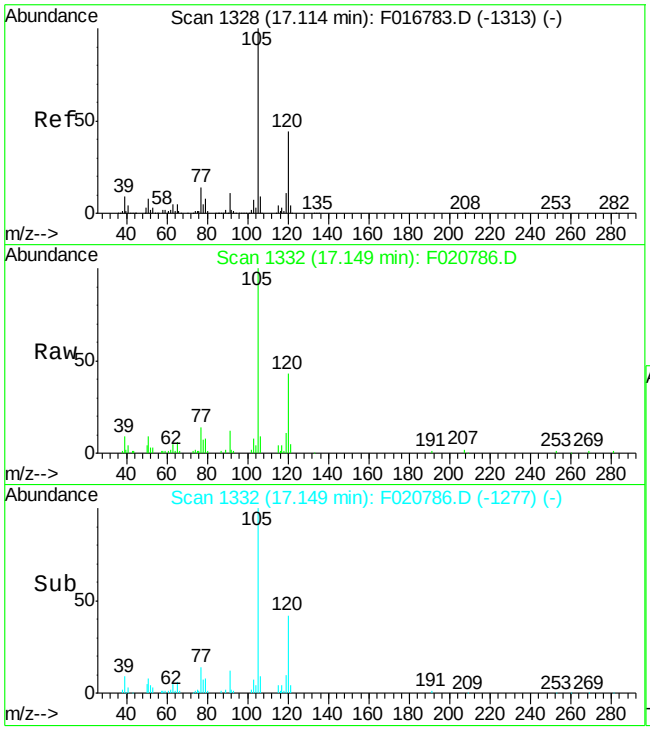


#91
1,3,5-Trimethylbenzene
Concen: 2.95 ug/L
RT: 16.59 min Scan# 1275
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion:105 Resp: 51486

Ion	Ratio	Lower	Upper
105	100		
120	50.2	15.7	75.7

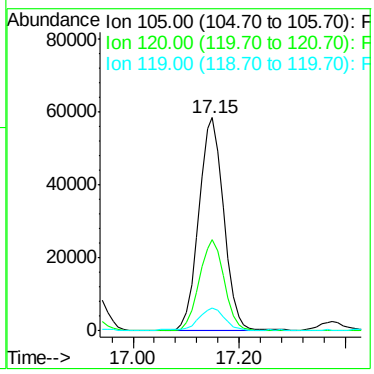


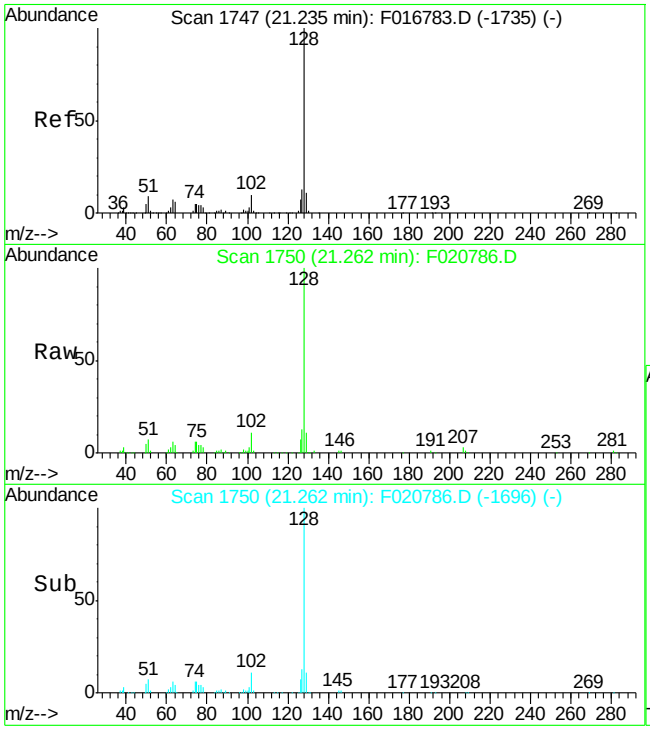


#100
1,2,4-Trimethylbenzene
Concen: 10.21 ug/L
RT: 17.15 min Scan# 1332
Delta R.T. 0.04 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion:105 Resp: 190635

Ion	Ratio	Lower	Upper
105	100		
120	42.7	12.2	72.2
119	10.9	0.0	40.6

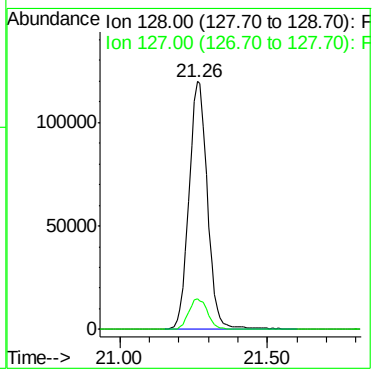




#105
Naphthalene
Concen: 72.39 ug/L
RT: 21.26 min Scan# 1750
Delta R.T. 0.03 min
Lab File: F020786.D
Acq: 15 Oct 2009 3:52 pm

Tgt Ion:128 Resp: 522028

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020732.D Vial: 34
Acq On : 14 Oct 2009 1:43 am Operator: AnjanaP
Sample : t39646-5 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:47 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1114098	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	899434	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	443652	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	443652	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	322631	48.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.68%			
45) 1,2-Dichloroethane-d4	10.29	65	344959	40.75	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 81.50%			
62) Toluene-d8	12.58	98	935115	45.00	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.00%			
83) 4-Bromofluorobenzene	16.16	95	386426	46.09	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.18%			

Target Compounds

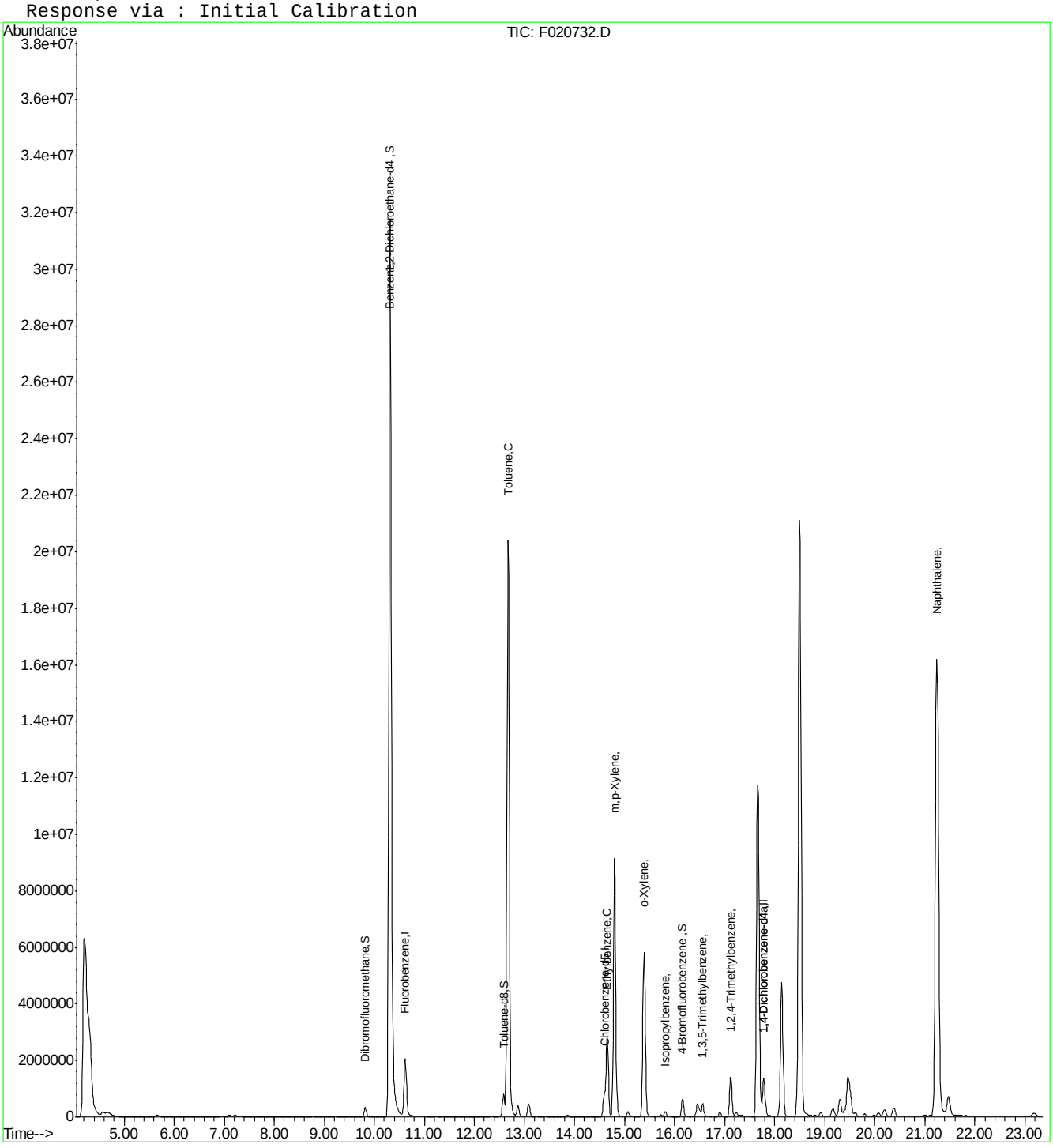
						Qvalue
46) Benzene	10.30	78	35136251	1922.08	ug/L	75
63) Toluene	12.67	91	25110428	1040.93	ug/L	64
75) Ethylbenzene	14.66	91	3936683	131.05	ug/L	97
76) m,p-Xylene	14.80	91	10246688	443.28	ug/L	94
77) o-Xylene	15.39	91	5600918	232.93	ug/L	95
81) Isopropylbenzene	15.82	105	175496	8.74	ug/L	96
91) 1,3,5-Trimethylbenzene	16.56	105	510609	28.02	ug/L	100
100) 1,2,4-Trimethylbenzene	17.12	105	1608878	82.62	ug/L	99
105) Naphthalene	21.24	128	34014827	4651.30	ug/L	85

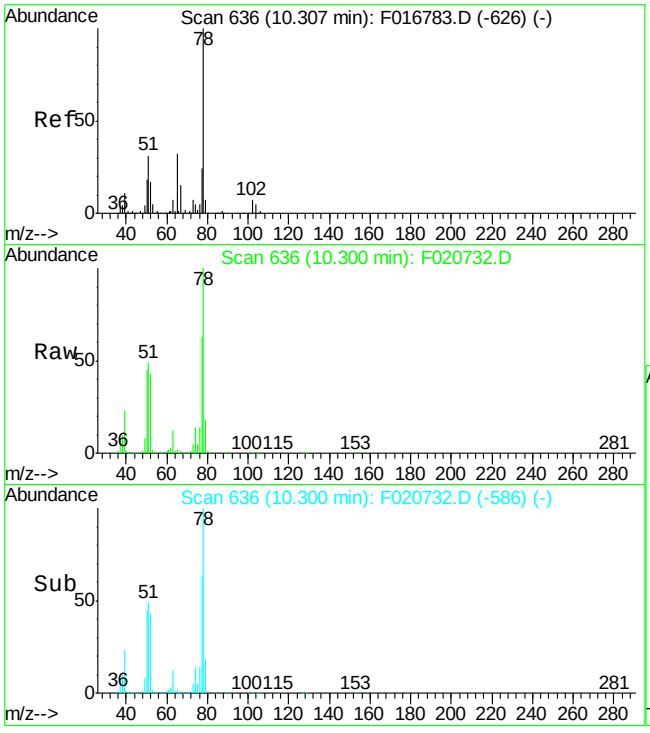
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020732.D Vial: 34
Acq On : 14 Oct 2009 1:43 am Operator: AnjanaP
Sample : t39646-5 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:36 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

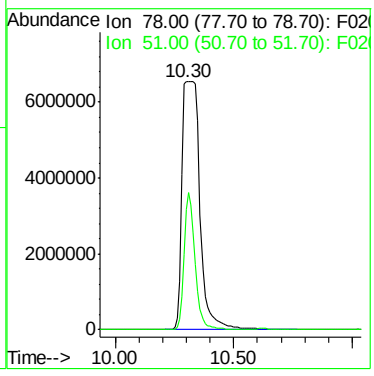


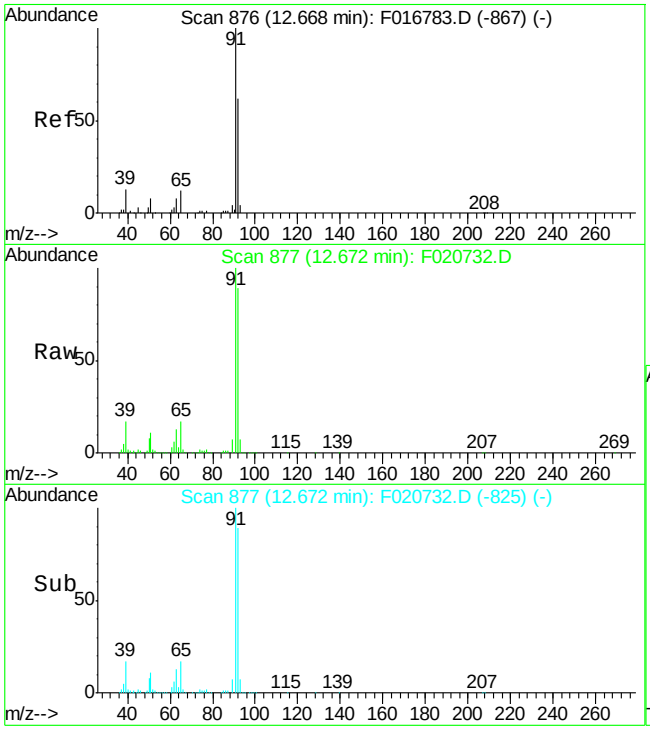


#46
Benzene
Concen: 1922.08 ug/L
RT: 10.30 min Scan# 636
Delta R.T. -0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion: 78 Resp:35136251

Ion	Ratio	Lower	Upper
78	100		
51	48.6	4.0	64.0

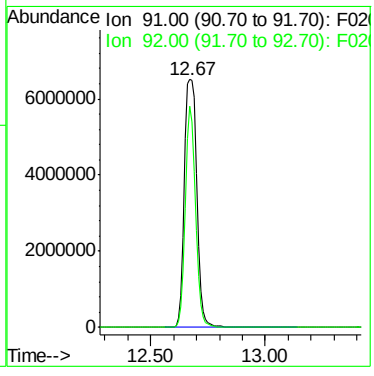


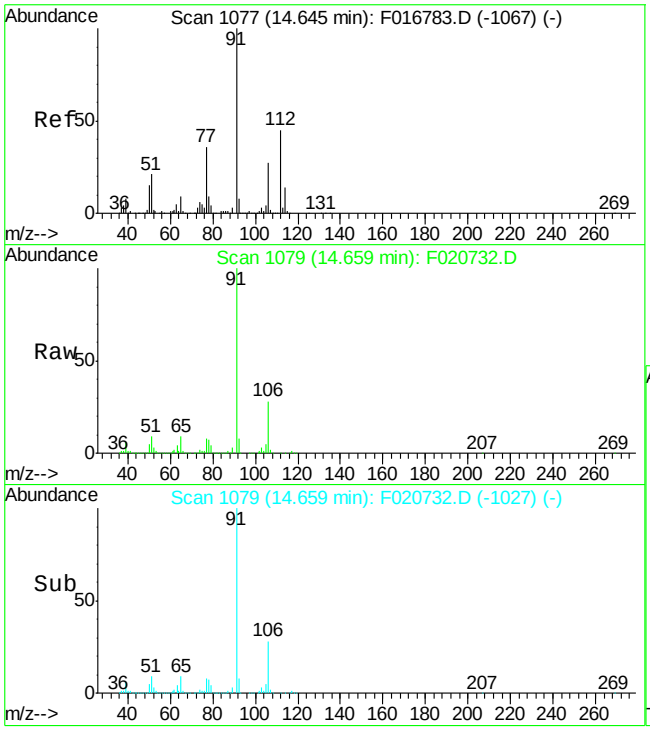


#63
Toluene
Concen: 1040.93 ug/L
RT: 12.67 min Scan# 877
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion: 91 Resp:25110428

Ion	Ratio	Lower	Upper
91	100		
92	89.3	31.7	91.7

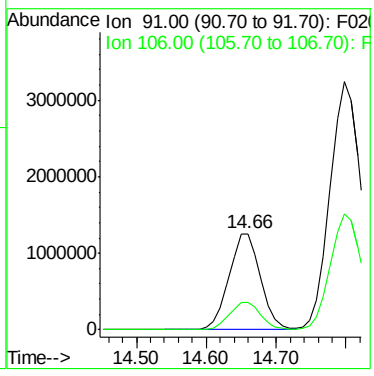


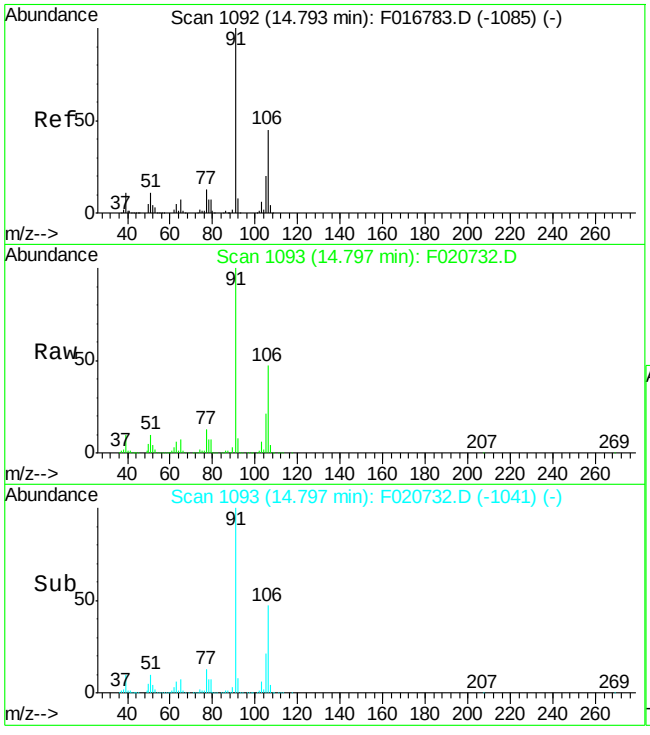


#75
Ethylbenzene
Concen: 131.05 ug/L
RT: 14.66 min Scan# 1079
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion: 91 Resp: 3936683

Ion	Ratio	Lower	Upper
91	100		
106	28.5	0.0	57.1

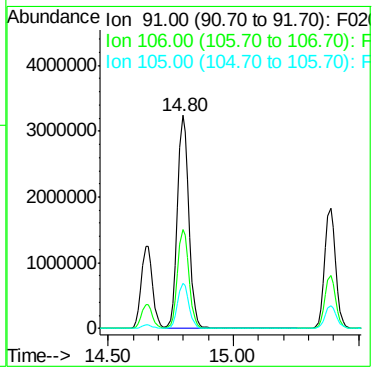


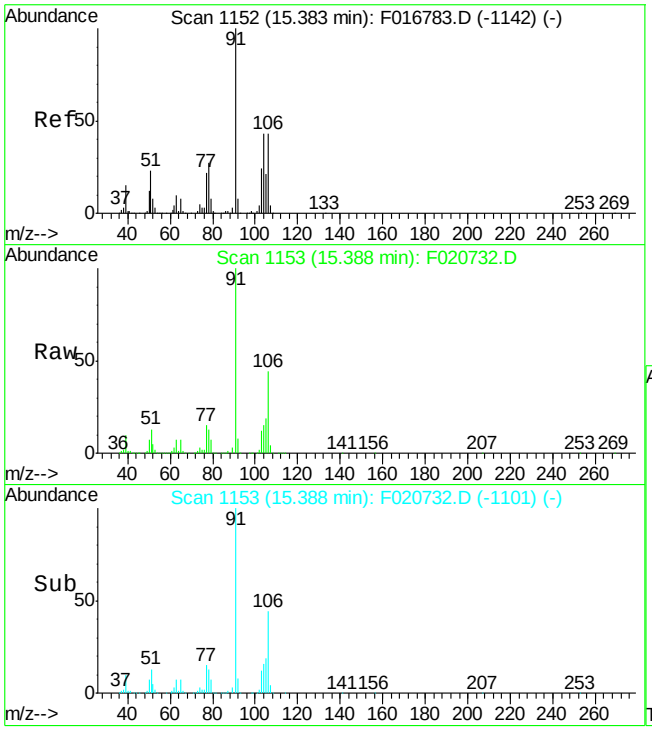


#76
m,p-Xylene
Concen: 443.28 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion: 91 Resp:10246688

Ion	Ratio	Lower	Upper
91	100		
106	46.7	12.4	72.4
105	21.1	0.0	49.8

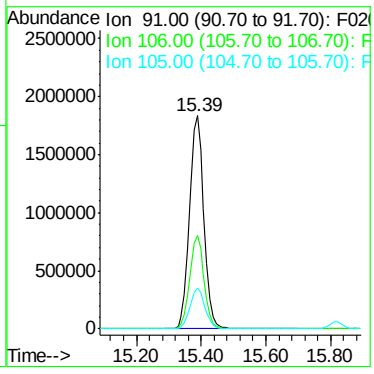


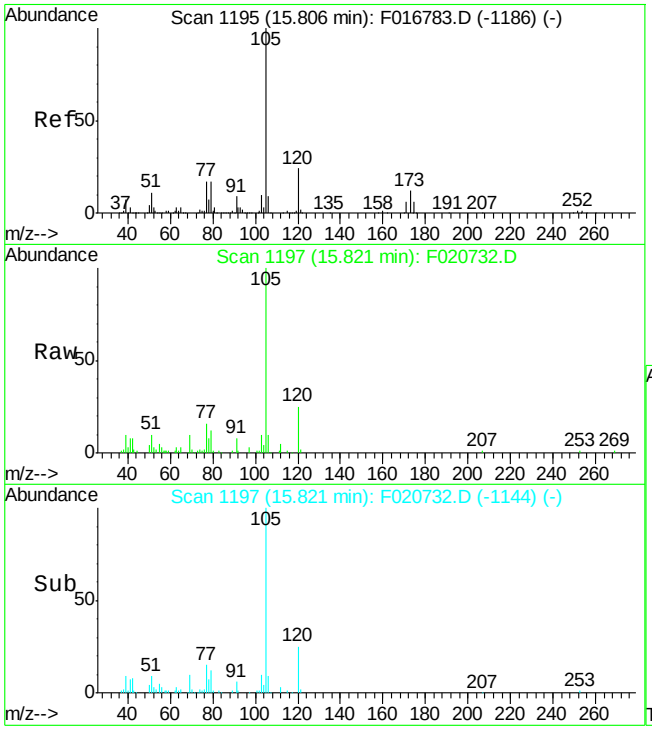


#77
o-Xylene
Concen: 232.93 ug/L
RT: 15.39 min Scan# 1153
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion: 91 Resp: 5600918

Ion	Ratio	Lower	Upper
91	100		
106	43.7	9.6	69.6
105	19.0	0.0	49.9

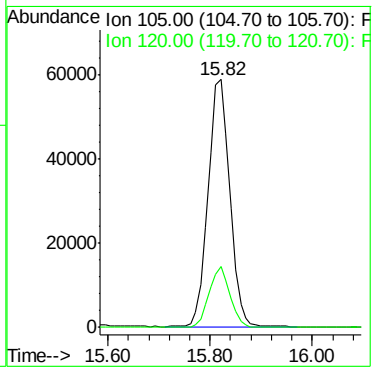


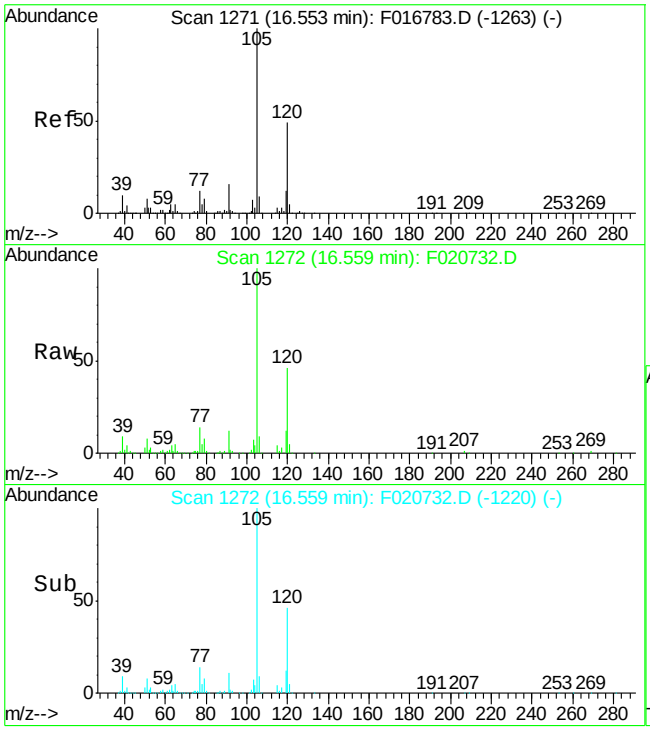


#81
Isopropylbenzene
Concen: 8.74 ug/L
RT: 15.82 min Scan# 1197
Delta R.T. 0.02 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion:105 Resp: 175496

Ion	Ratio	Lower	Upper
105	100		
120	24.6	0.0	52.8

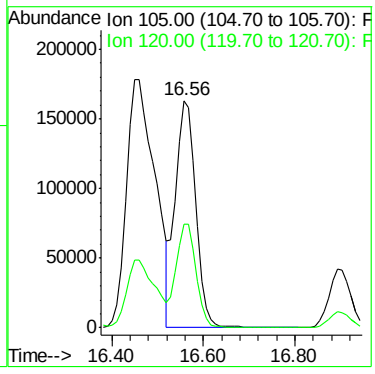


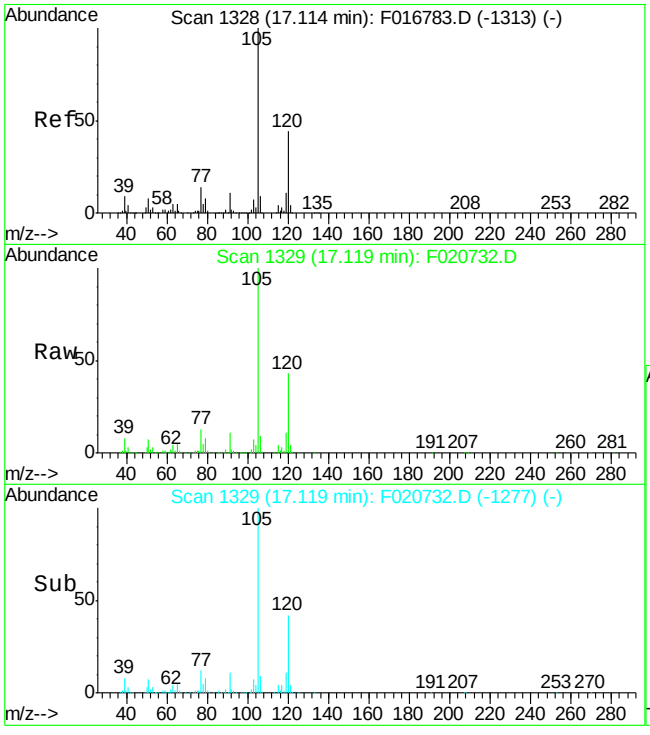


#91
1,3,5-Trimethylbenzene
Concen: 28.02 ug/L
RT: 16.56 min Scan# 1272
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion:105 Resp: 510609

Ion	Ratio	Lower	Upper
105	100		
120	45.9	15.7	75.7

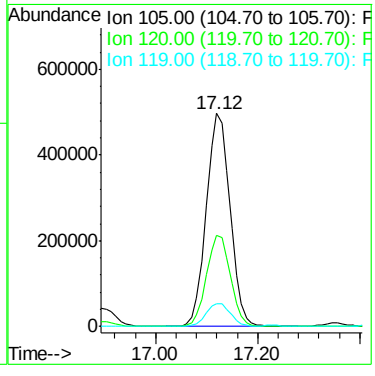


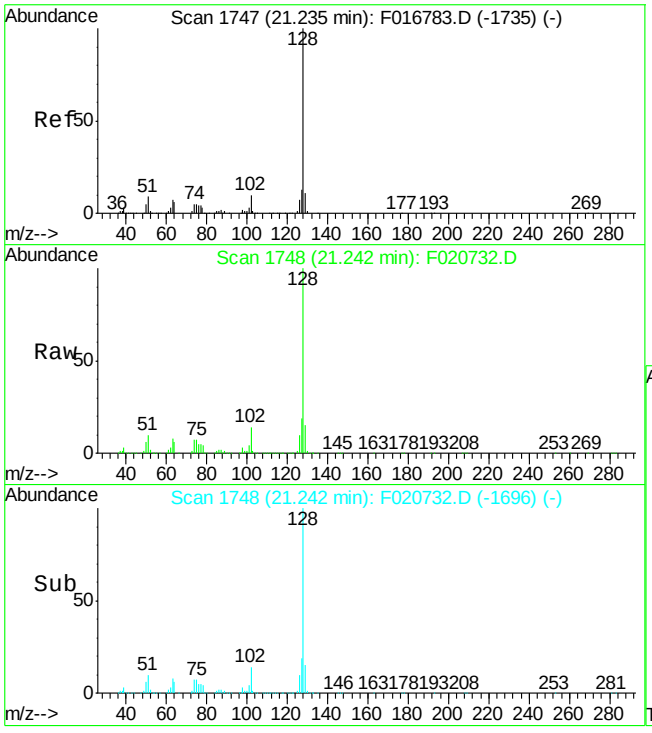


#100
1,2,4-Trimethylbenzene
Concen: 82.62 ug/L
RT: 17.12 min Scan# 1329
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion:105 Resp: 1608878

Ion	Ratio	Lower	Upper
105	100		
120	42.7	12.2	72.2
119	10.8	0.0	40.6

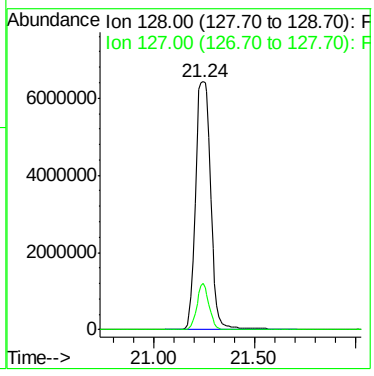




#105
Naphthalene
Concen: 4651.30 ug/L
RT: 21.24 min Scan# 1748
Delta R.T. 0.01 min
Lab File: F020732.D
Acq: 14 Oct 2009 1:43 am

Tgt Ion:128 Resp:34014827

Ion	Ratio	Lower	Upper
128	100		
127	18.5	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020787.D Vial: 15
Acq On : 15 Oct 2009 4:22 pm Operator: AnjanaP
Sample : t39646-5,100x Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,100,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:34 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.66	96	1091592	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.62	117	773019	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.81	152	426162	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.81	152	426162	50.00	ug/kg	0.03

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	293167	45.30	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 90.60%			
45) 1,2-Dichloroethane-d4	10.32	65	358005	43.29	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 86.58%			
62) Toluene-d8	12.61	98	847295	47.31	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.62%			
83) 4-Bromofluorobenzene	16.19	95	373048	46.32	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.64%			

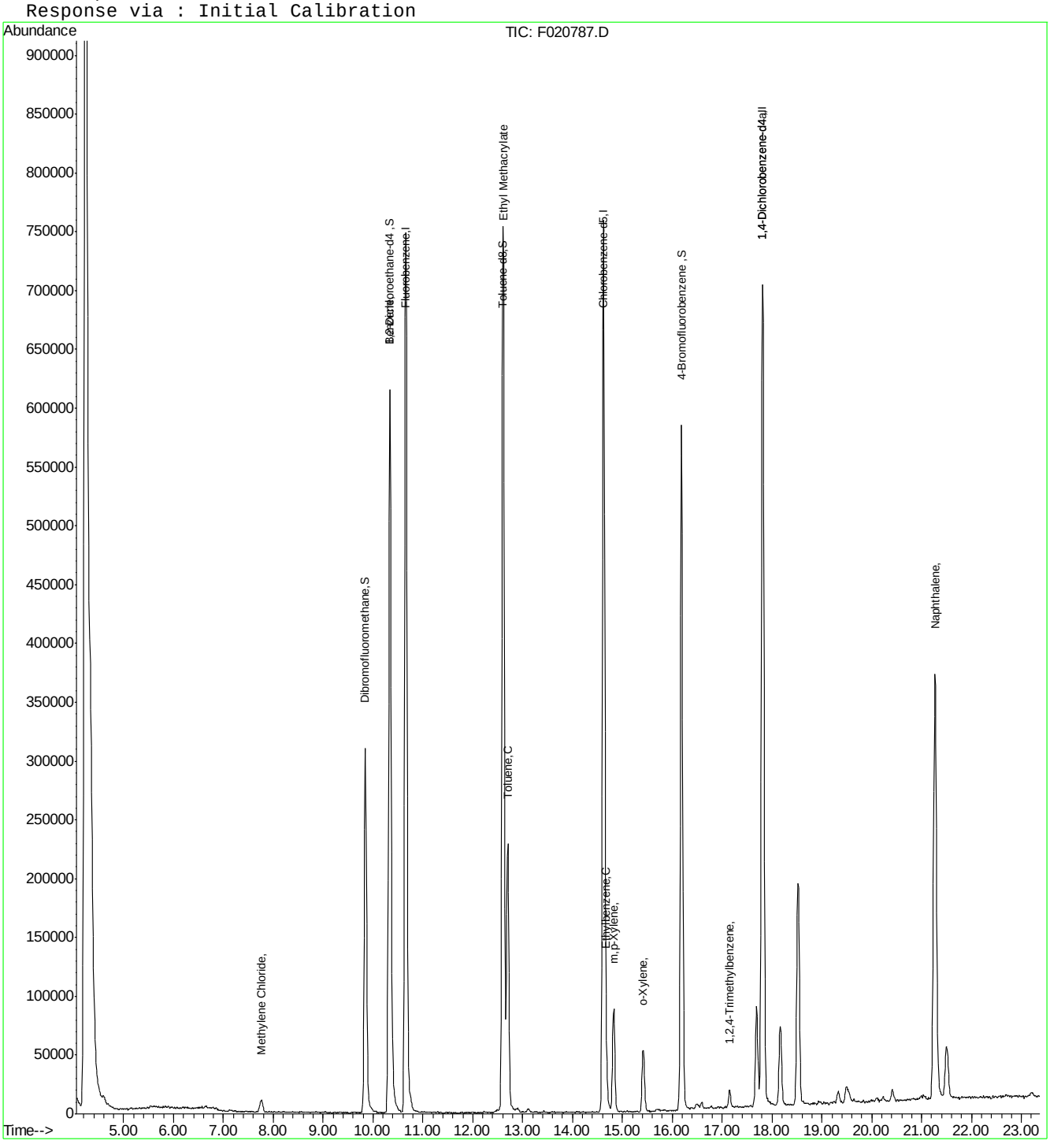
Target Compounds						Qvalue
18) Methylene Chloride	7.76	49	13476	1.47	ug/L	94
46) Benzene	10.34	78	588344	32.85	ug/L	99
63) Toluene	12.70	91	274770	13.25	ug/L	99
64) Ethyl Methacrylate	12.63	69	2371	0.36	uL/: #	1
75) Ethylbenzene	14.68	91	40699	1.58	ug/L	97
76) m,p-Xylene	14.83	91	100622	5.06	ug/L	97
77) o-Xylene	15.41	91	56108	2.71	ug/L	97
100) 1,2,4-Trimethylbenzene	17.15	105	17938	0.96	ug/L	96
105) Naphthalene	21.26	128	727427	101.51	ug/L	99

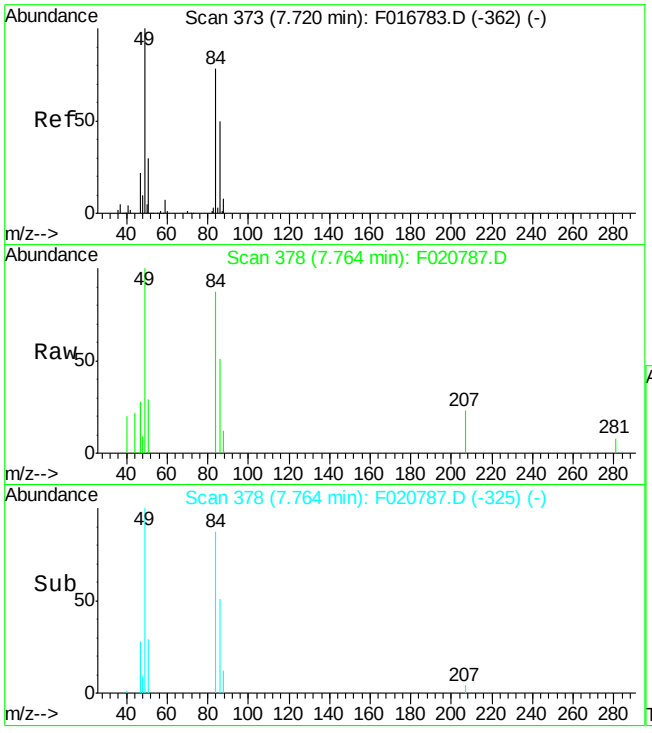
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020787.D Vial: 15
Acq On : 15 Oct 2009 4:22 pm Operator: AnjanaP
Sample : t39646-5,100x Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,100,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 10:41 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration

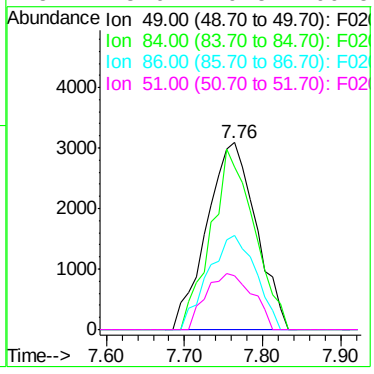


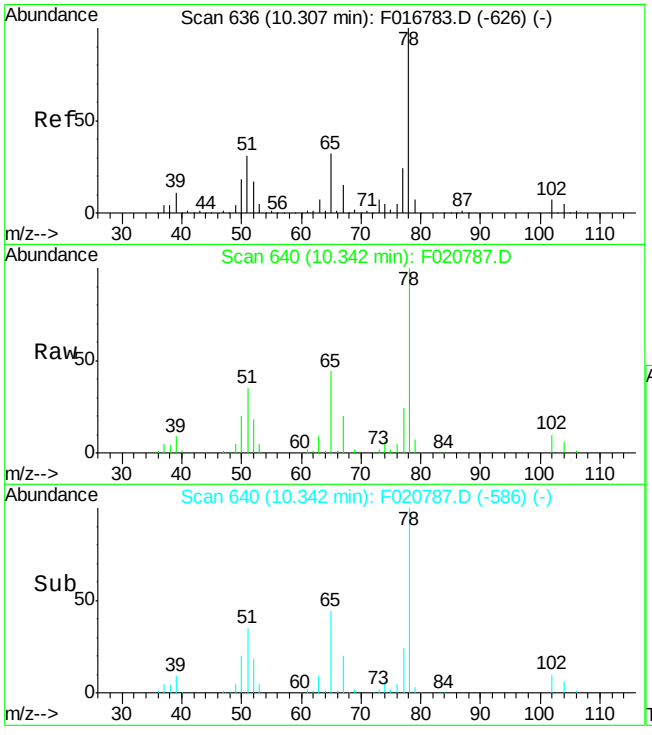


#18
Methylene Chloride
Concen: 1.47 ug/L
RT: 7.76 min Scan# 378
Delta R.T. 0.02 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 49 Resp: 13476

Ion	Ratio	Lower	Upper
49	100		
84	86.8	51.0	111.0
86	50.5	25.2	85.2
51	28.6	0.5	60.5

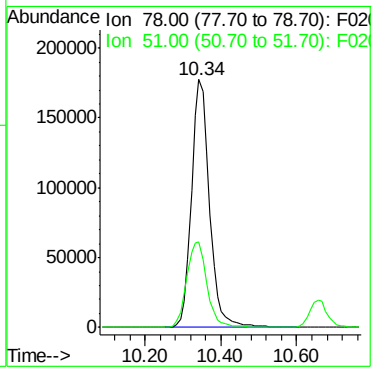


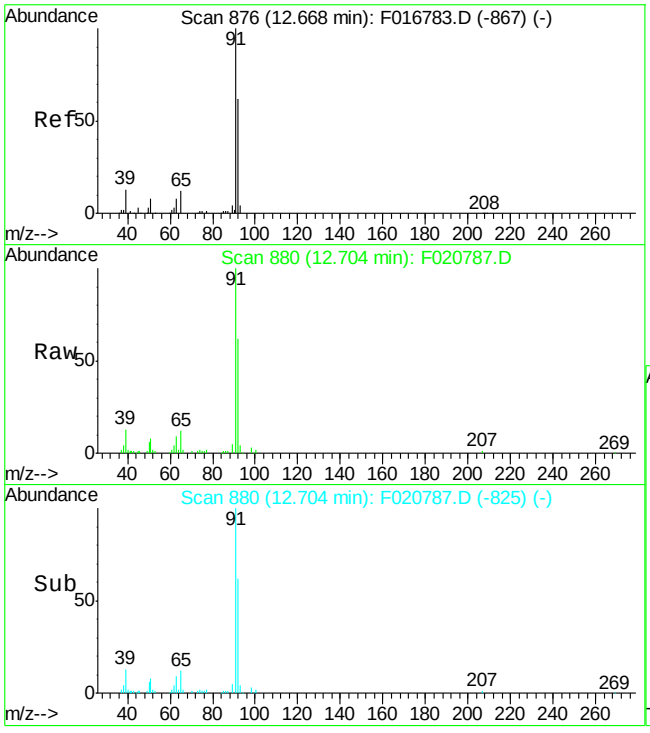


#46
Benzene
Concen: 32.85 ug/L
RT: 10.34 min Scan# 640
Delta R.T. 0.03 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 78 Resp: 588344

Ion	Ratio	Lower	Upper
78	100		
51	34.6	4.0	64.0

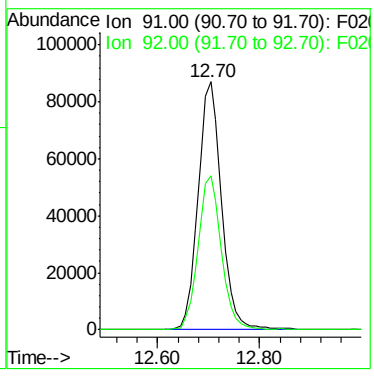


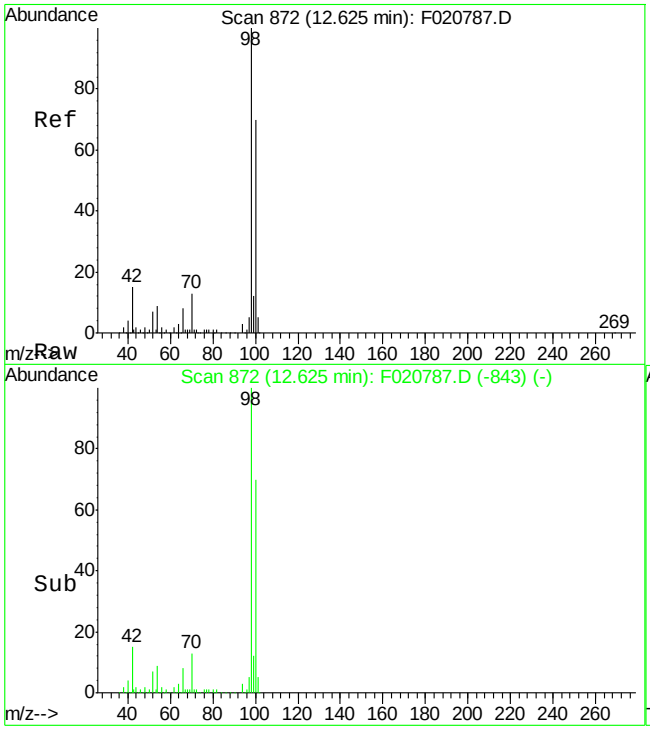


#63
Toluene
Concen: 13.25 ug/L
RT: 12.70 min Scan# 880
Delta R.T. 0.04 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 91 Resp: 274770

Ion	Ratio	Lower	Upper
91	100		
92	62.1	31.7	91.7

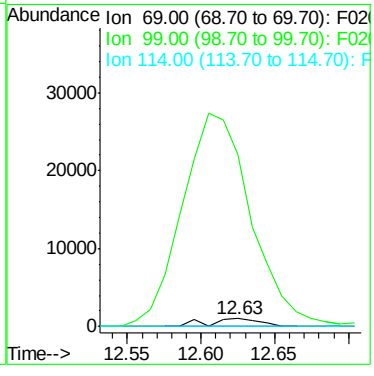


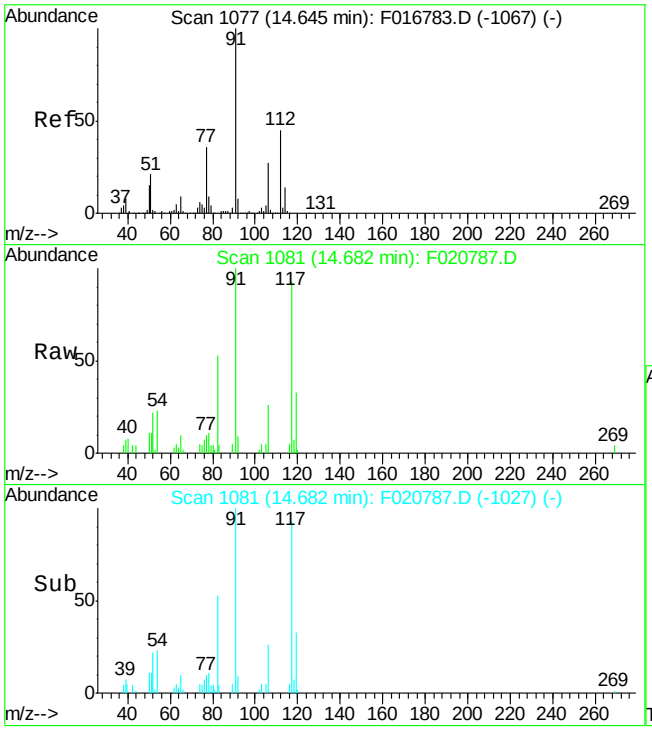


#64
Ethyl Methacrylate
Concen: 0.36 uL/:
RT: 12.63 min Scan# 872
Delta R.T. -0.21 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 69 Resp: 2371

Ion	Ratio	Lower	Upper
69	100		
99	2023.9	0.0	50.0#
114	0.0	0.0	37.6

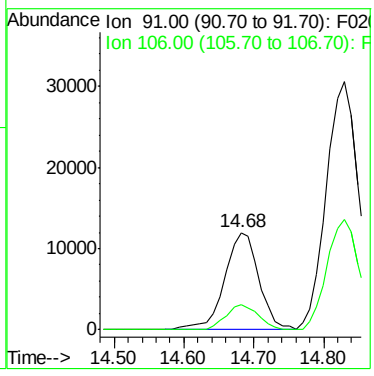


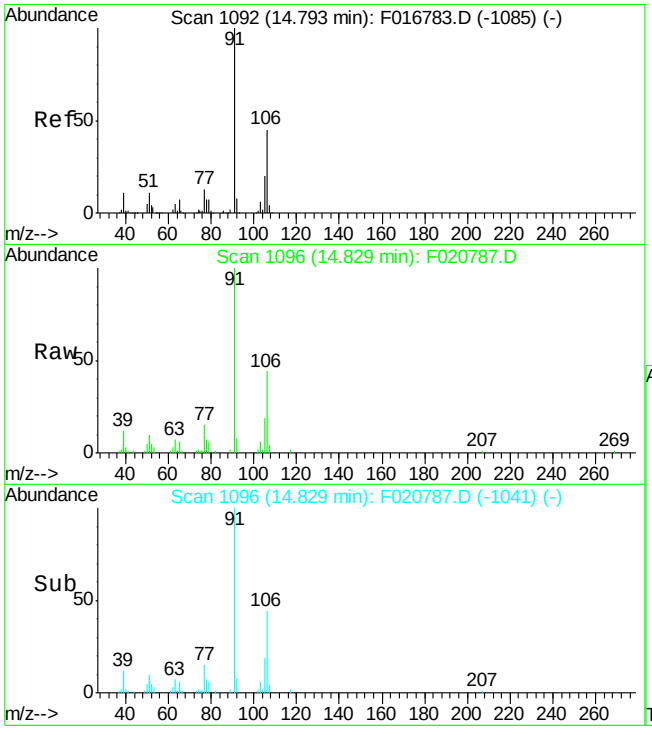


#75
Ethylbenzene
Concen: 1.58 ug/L
RT: 14.68 min Scan# 1081
Delta R.T. 0.03 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 91 Resp: 40699

Ion	Ratio	Lower	Upper
91	100		
106	25.7	0.0	57.1

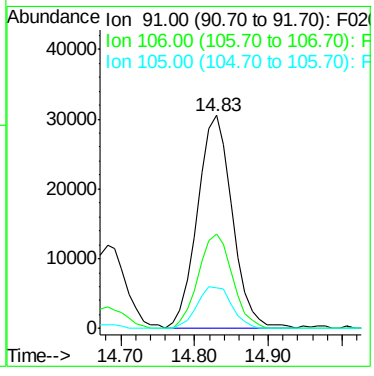


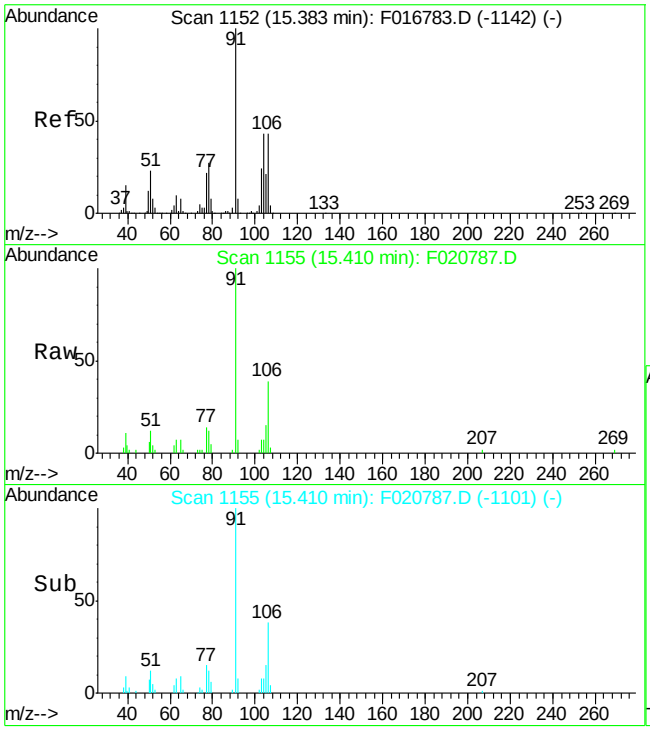


#76
m,p-Xylene
Concen: 5.06 ug/L
RT: 14.83 min Scan# 1096
Delta R.T. 0.04 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 91 Resp: 100622

Ion	Ratio	Lower	Upper
91	100		
106	44.3	12.4	72.4
105	18.9	0.0	49.8

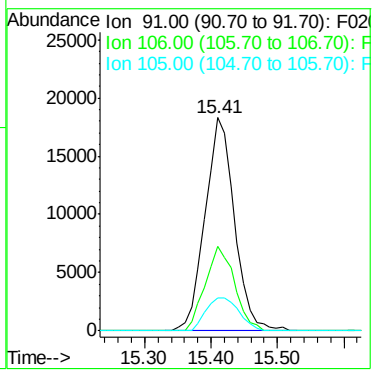


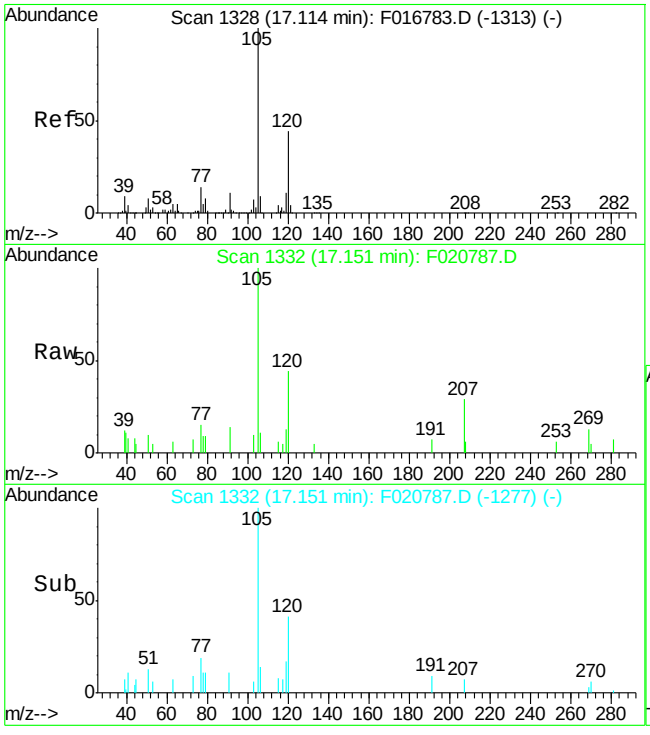


#77
o-Xylene
Concen: 2.71 ug/L
RT: 15.41 min Scan# 1155
Delta R.T. 0.03 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion: 91 Resp: 56108

Ion	Ratio	Lower	Upper
91	100		
106	39.4	9.6	69.6
105	15.4	0.0	49.9

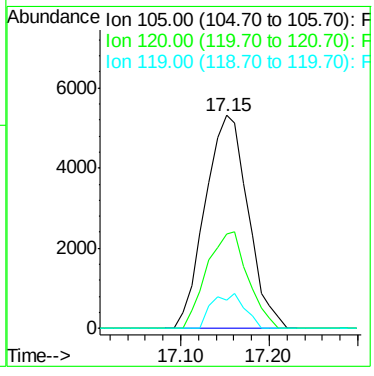


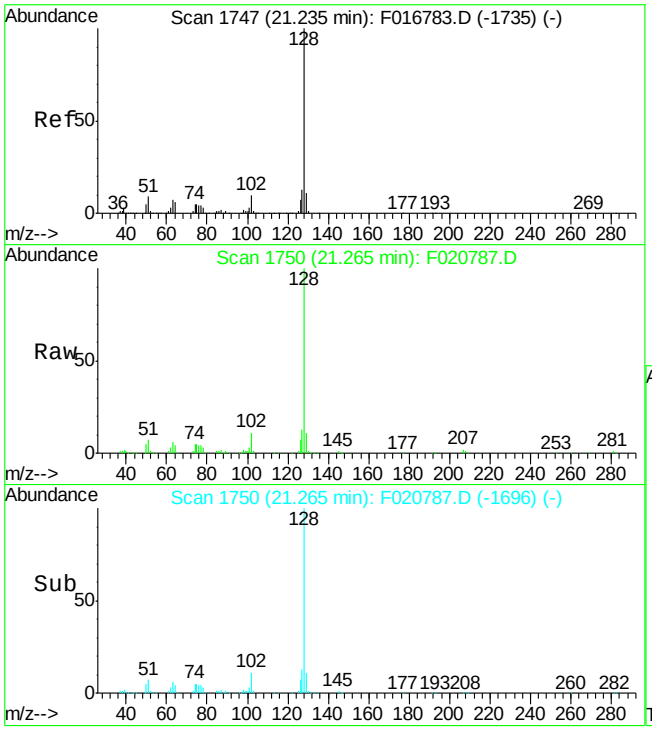


#100
1,2,4-Trimethylbenzene
Concen: 0.96 ug/L
RT: 17.15 min Scan# 1332
Delta R.T. 0.04 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion:105 Resp: 17938

Ion	Ratio	Lower	Upper
105	100		
120	44.5	12.2	72.2
119	13.4	0.0	40.6

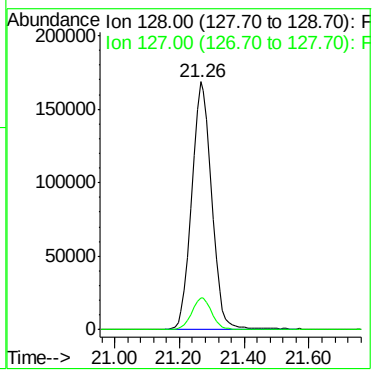




#105
Naphthalene
Concen: 101.51 ug/L
RT: 21.26 min Scan# 1750
Delta R.T. 0.03 min
Lab File: F020787.D
Acq: 15 Oct 2009 4:22 pm

Tgt Ion:128 Resp: 727427

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020763.D Vial: 18
Acq On : 14 Oct 2009 6:31 pm Operator: AnjanaP
Sample : t39646-6 Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:02 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	904865	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	715250	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	411060	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	411060	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	275507	51.35	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 102.70%			
45) 1,2-Dichloroethane-d4	10.31	65	343146	50.38	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.76%			
62) Toluene-d8	12.59	98	777135	46.92	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 93.84%			
83) 4-Bromofluorobenzene	16.17	95	331844	42.77	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 85.54%			

Target Compounds

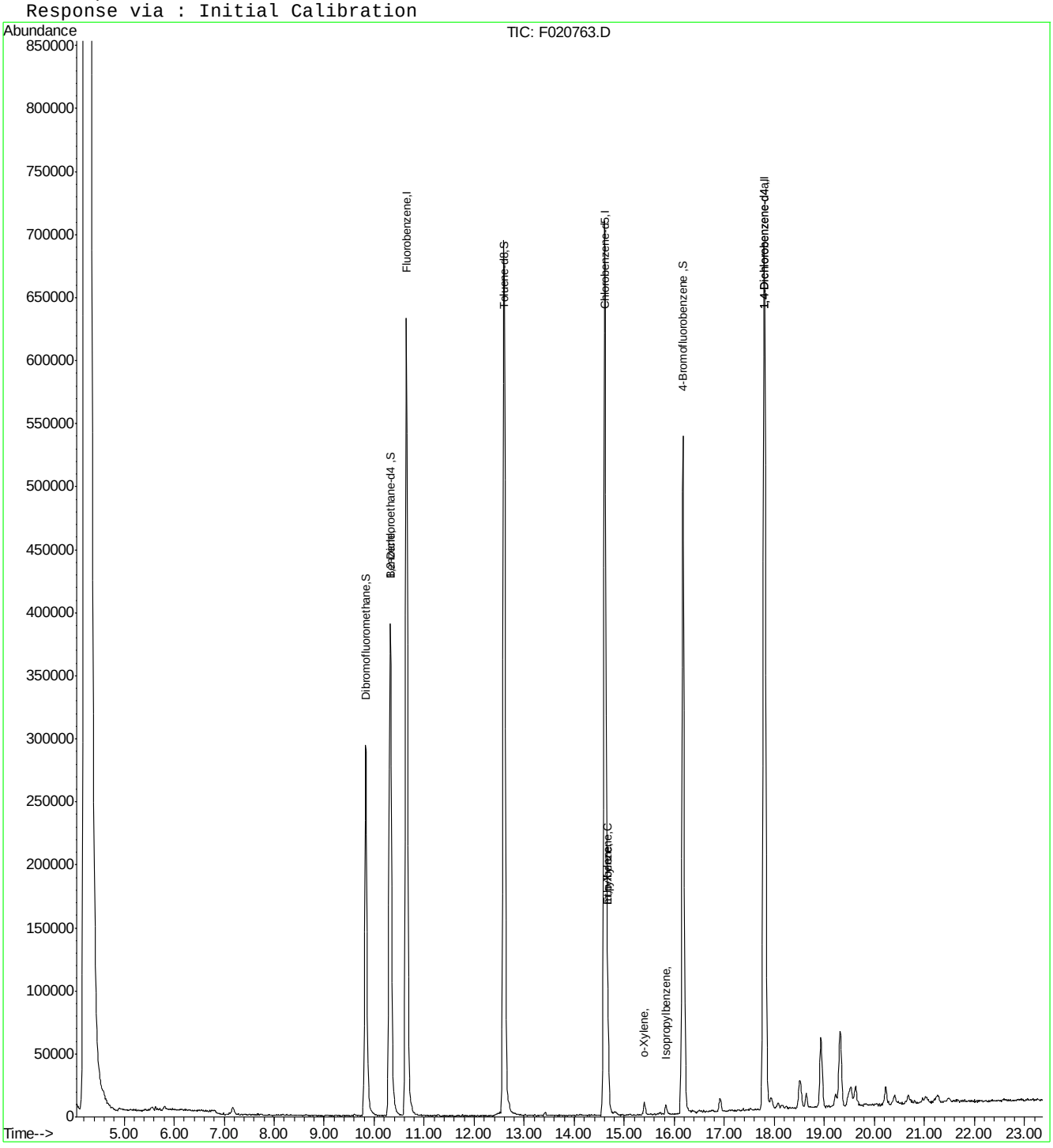
						Qvalue
46) Benzene	10.33	78	243341	16.39	ug/L	74
75) Ethylbenzene	14.67	91	92040	3.85	ug/L	99
76) m,p-Xylene	14.67	91	92040	5.01	ug/L	73
77) o-Xylene	15.40	91	11470	0.60	ug/L	96
81) Isopropylbenzene	15.83	105	9503	0.51	ug/L	83

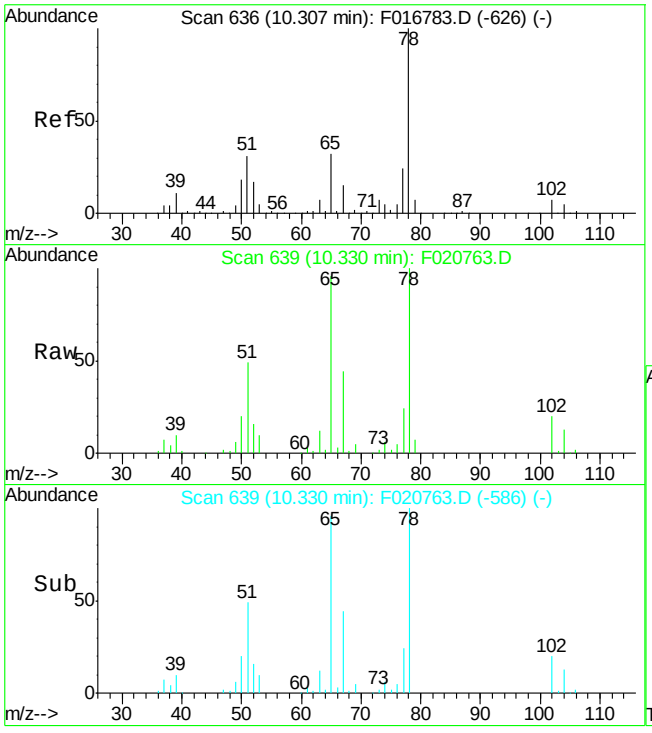
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020763.D Vial: 18
Acq On : 14 Oct 2009 6:31 pm Operator: AnjanaP
Sample : t39646-6 Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:29 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

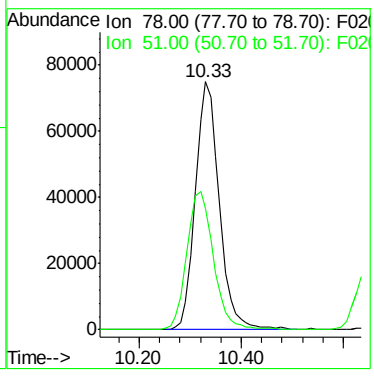


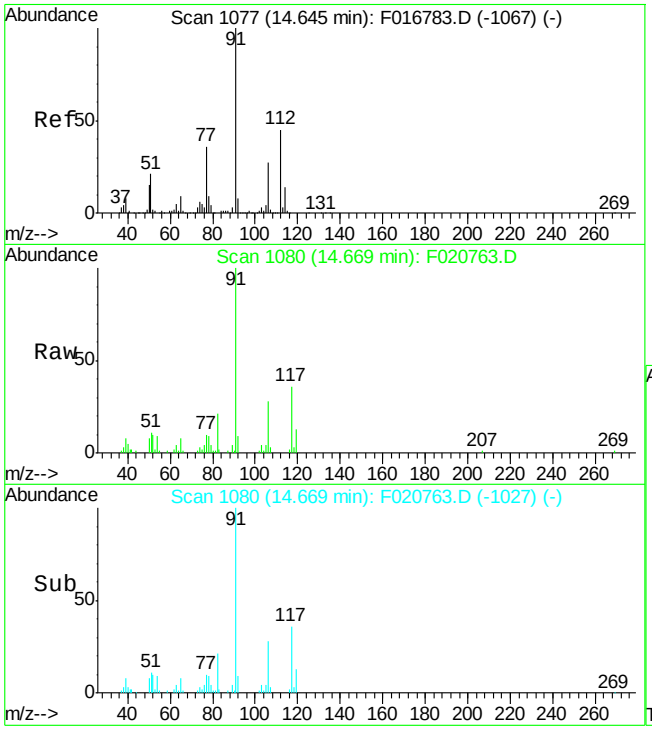


#46
Benzene
Concen: 16.39 ug/L
RT: 10.33 min Scan# 639
Delta R.T. 0.02 min
Lab File: F020763.D
Acq: 14 Oct 2009 6:31 pm

Tgt Ion: 78 Resp: 243341

Ion	Ratio	Lower	Upper
78	100		
51	49.0	4.0	64.0

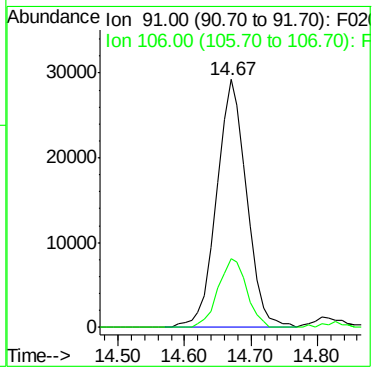


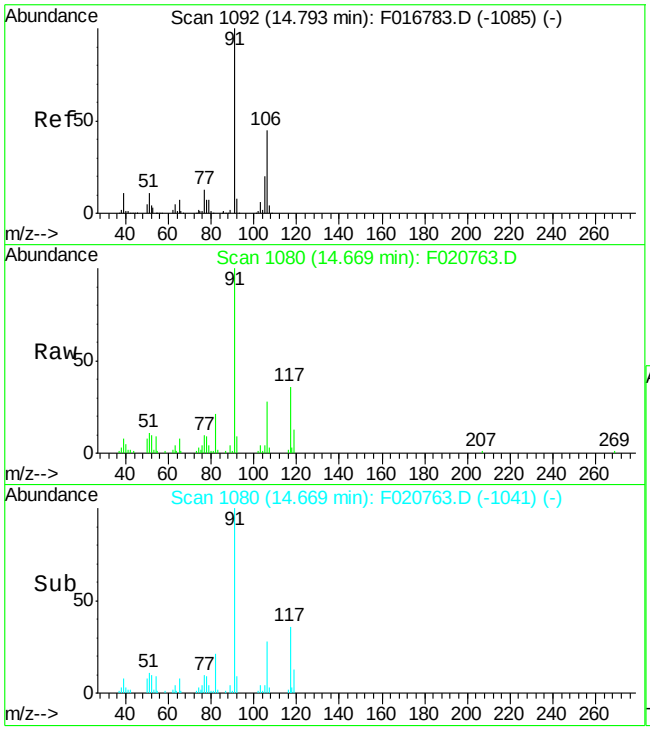


#75
Ethylbenzene
Concen: 3.85 ug/L
RT: 14.67 min Scan# 1080
Delta R.T. 0.02 min
Lab File: F020763.D
Acq: 14 Oct 2009 6:31 pm

Tgt Ion: 91 Resp: 92040

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	57.1

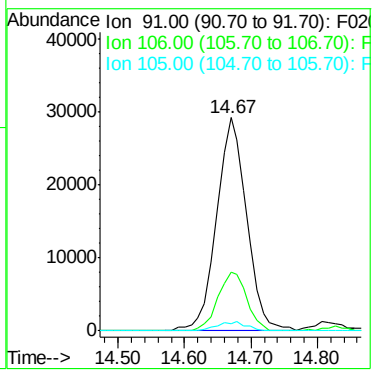


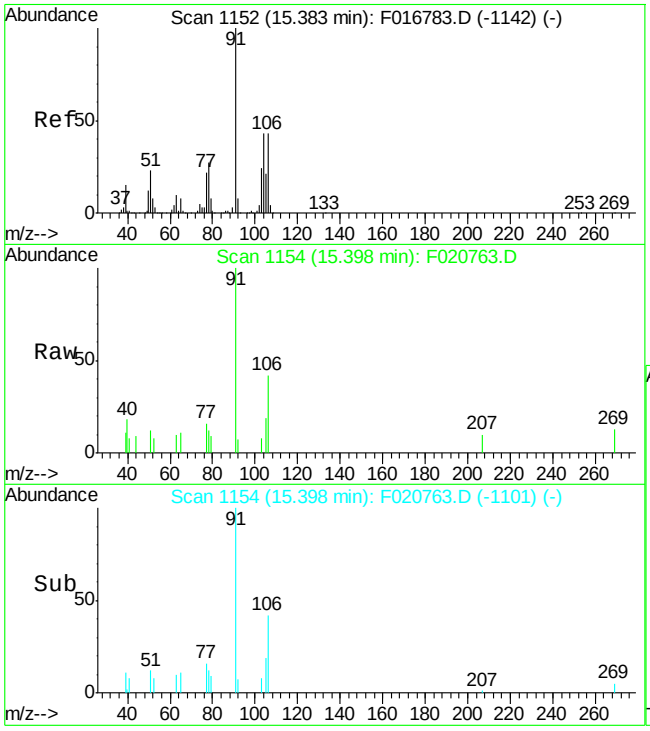


#76
m,p-Xylene
Concen: 5.01 ug/L
RT: 14.67 min Scan# 1080
Delta R.T. -0.12 min
Lab File: F020763.D
Acq: 14 Oct 2009 6:31 pm

Tgt Ion: 91 Resp: 92040

Ion	Ratio	Lower	Upper
91	100		
106	27.6	12.4	72.4
105	3.5	0.0	49.8

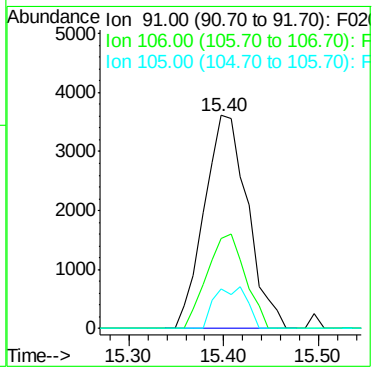


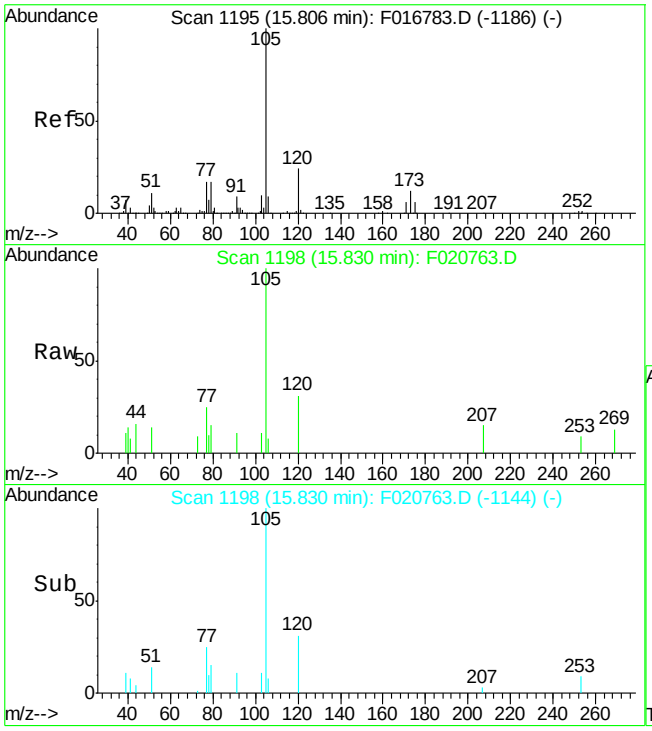


#77
o-Xylene
Concen: 0.60 ug/L
RT: 15.40 min Scan# 1154
Delta R.T. 0.02 min
Lab File: F020763.D
Acq: 14 Oct 2009 6:31 pm

Tgt Ion: 91 Resp: 11470

Ion	Ratio	Lower	Upper
91	100		
106	42.3	9.6	69.6
105	18.5	0.0	49.9

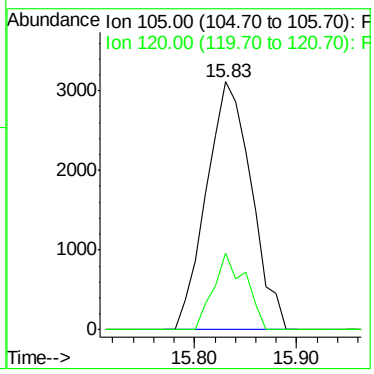




#81
Isopropylbenzene
Concen: 0.51 ug/L
RT: 15.83 min Scan# 1198
Delta R.T. 0.03 min
Lab File: F020763.D
Acq: 14 Oct 2009 6:31 pm

Tgt Ion:105 Resp: 9503

Ion	Ratio	Lower	Upper
105	100		
120	31.1	0.0	52.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020768.D Vial: 23
Acq On : 14 Oct 2009 9:02 pm Operator: AnjanaP
Sample : t39646-7 Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:07 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	916894	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	750960	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	432835	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	432835	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.83	113	283162	52.09	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 104.18%			
45) 1,2-Dichloroethane-d4	10.31	65	348546	50.50	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 101.00%			
62) Toluene-d8	12.59	98	792145	45.62	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.24%			
83) 4-Bromofluorobenzene	16.17	95	352931	43.19	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.38%			

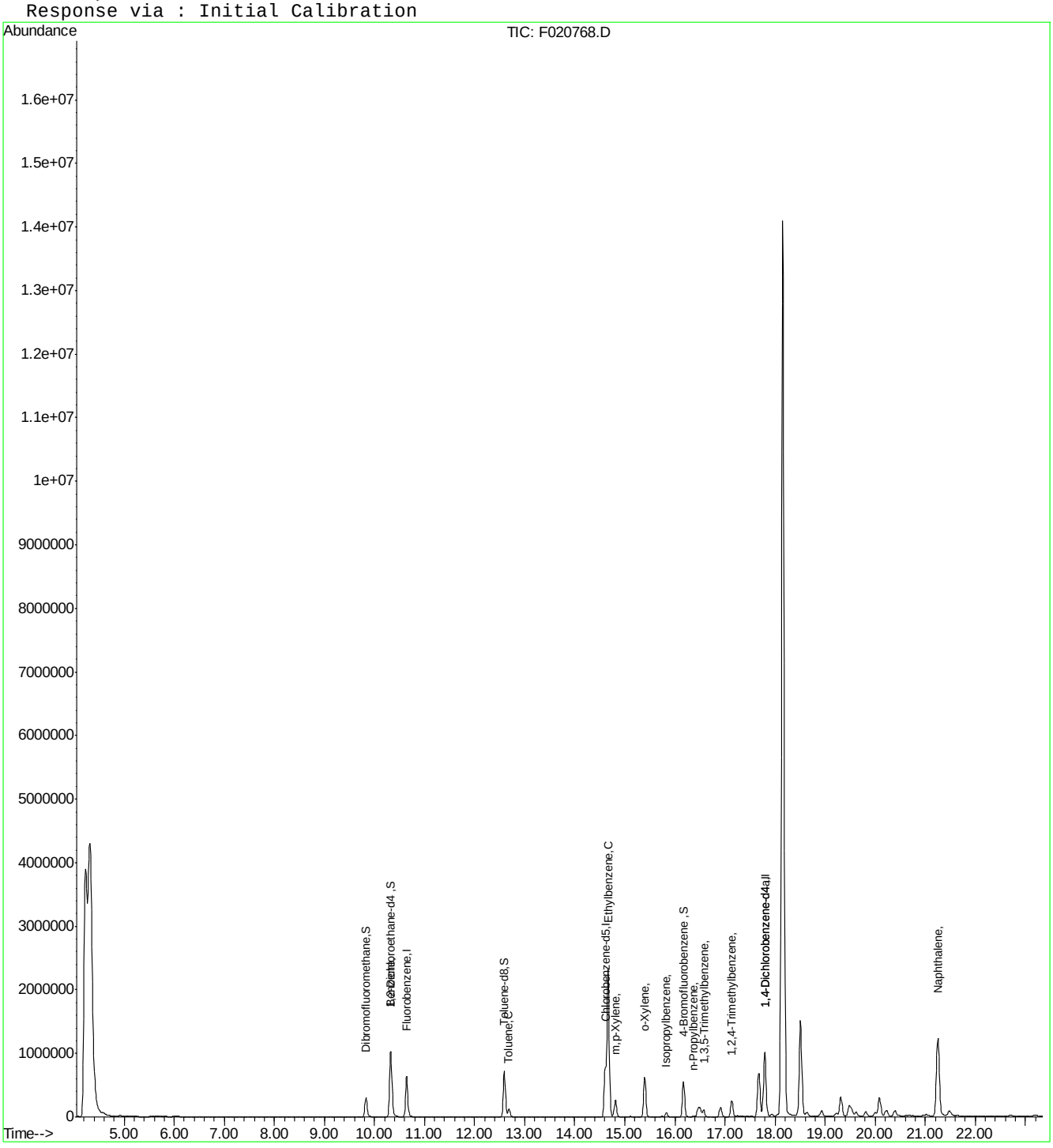
Target Compounds						Qvalue
46) Benzene	10.33	78	1191968	79.23	ug/L	85
63) Toluene	12.69	91	142113	7.06	ug/L	99
75) Ethylbenzene	14.67	91	3144267	125.37	ug/L	99
76) m,p-Xylene	14.81	91	316424	16.40	ug/L	99
77) o-Xylene	15.40	91	707006	35.22	ug/L	96
81) Isopropylbenzene	15.83	105	75582	3.86	ug/L	96
88) n-Propylbenzene	16.37	91	16481	0.61	ug/L	100
91) 1,3,5-Trimethylbenzene	16.58	105	104308	5.87	ug/L	99
100) 1,2,4-Trimethylbenzene	17.13	105	278700	14.67	ug/L	99
105) Naphthalene	21.25	128	2454310	342.07	ug/L	99

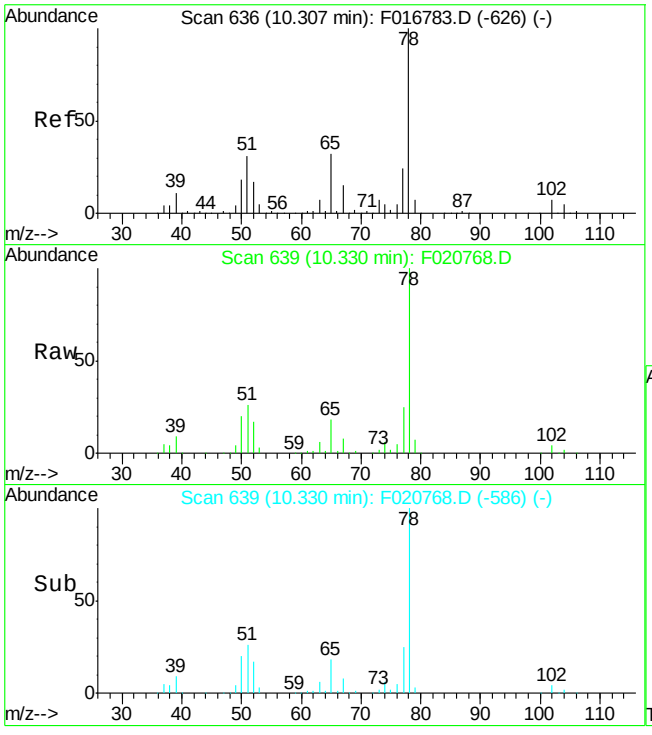
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020768.D Vial: 23
Acq On : 14 Oct 2009 9:02 pm Operator: AnjanaP
Sample : t39646-7 Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:33 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

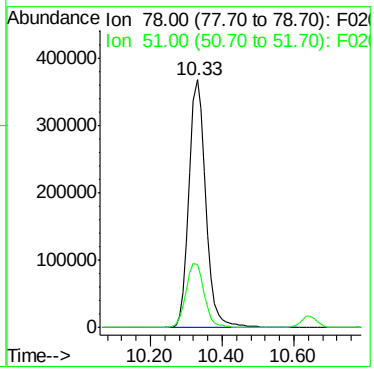


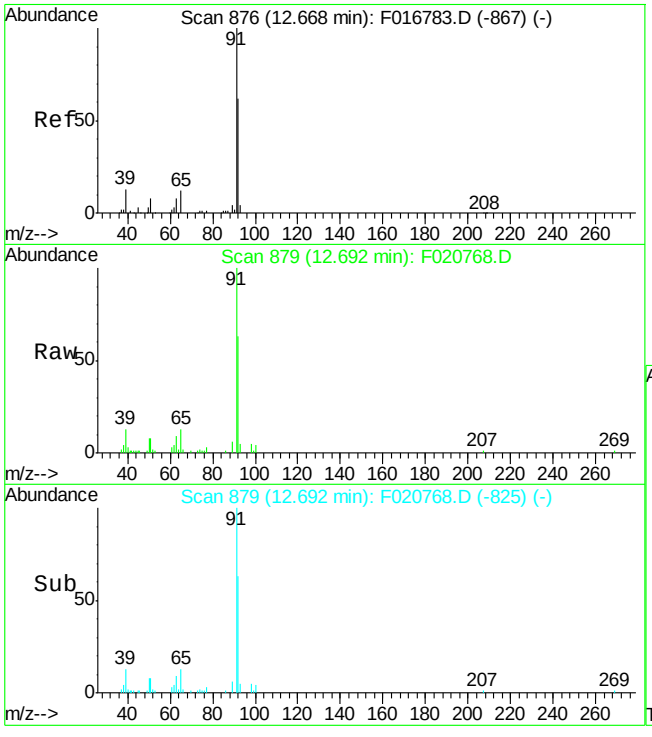


#46
Benzene
Concen: 79.23 ug/L
RT: 10.33 min Scan# 639
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 78 Resp: 1191968

Ion	Ratio	Lower	Upper
78	100		
51	25.6	4.0	64.0

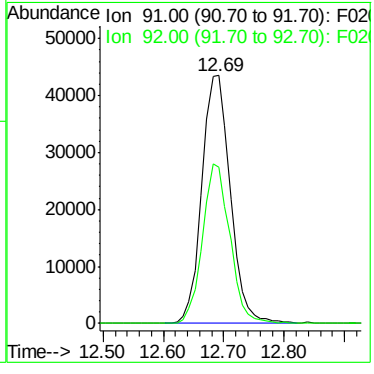


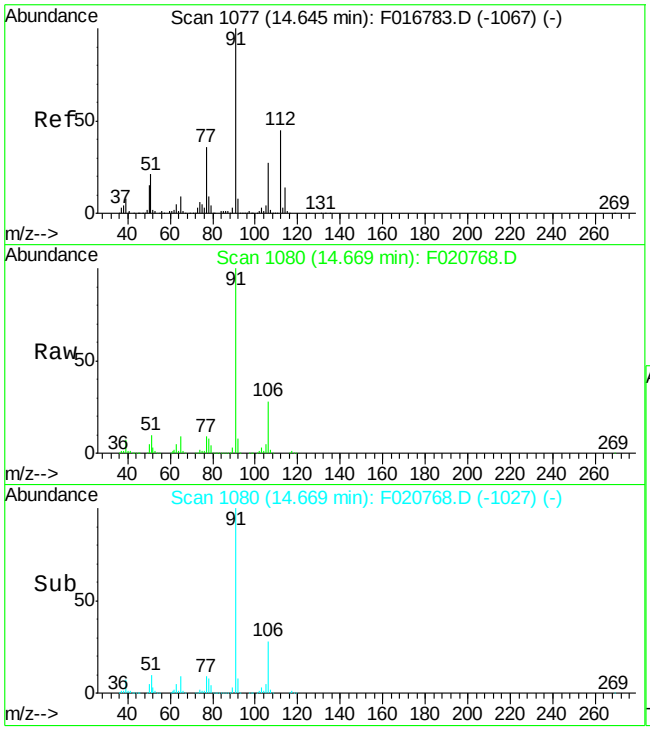


#63
Toluene
Concen: 7.06 ug/L
RT: 12.69 min Scan# 879
Delta R.T. 0.03 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 91 Resp: 142113

Ion	Ratio	Lower	Upper
91	100		
92	62.8	31.7	91.7

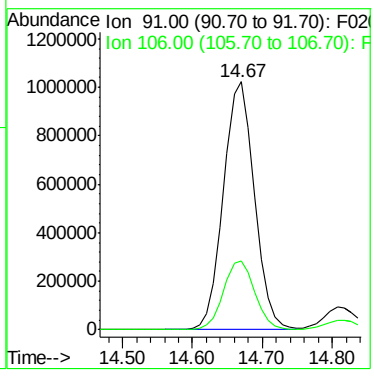


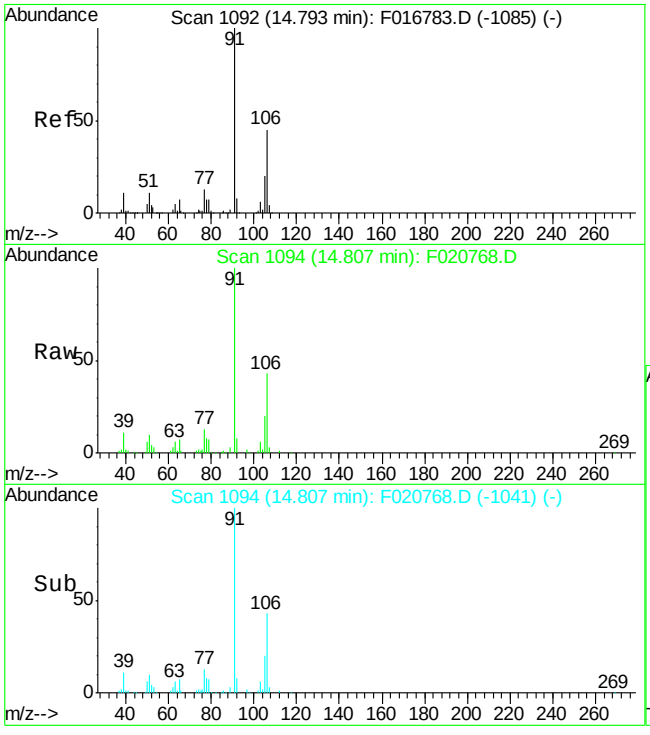


#75
Ethylbenzene
Concen: 125.37 ug/L
RT: 14.67 min Scan# 1080
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 91 Resp: 3144267

Ion	Ratio	Lower	Upper
91	100		
106	27.6	0.0	57.1

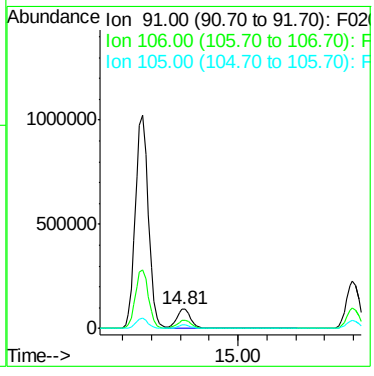


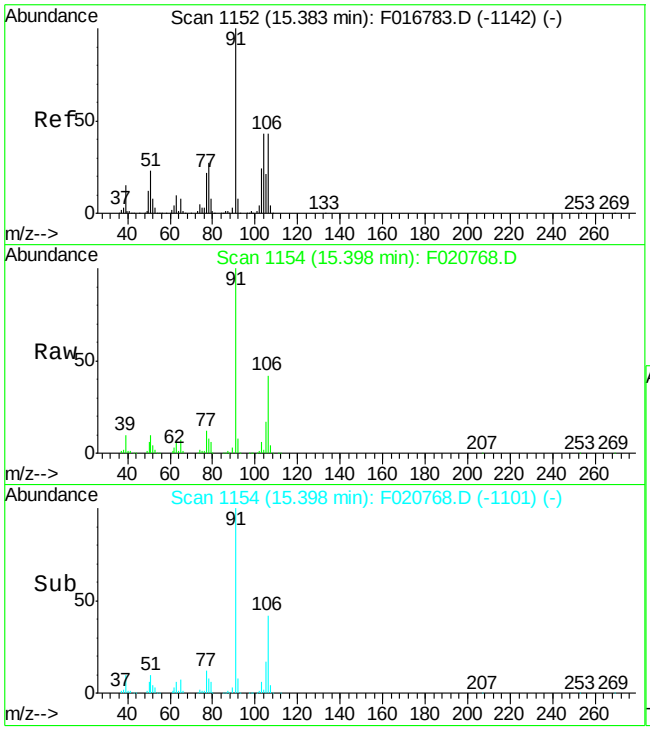


#76
m,p-Xylene
Concen: 16.40 ug/L
RT: 14.81 min Scan# 1094
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 91 Resp: 316424

Ion	Ratio	Lower	Upper
91	100		
106	43.0	12.4	72.4
105	19.7	0.0	49.8

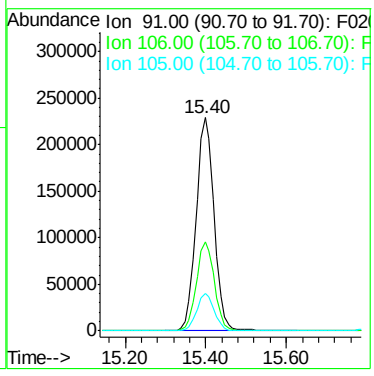


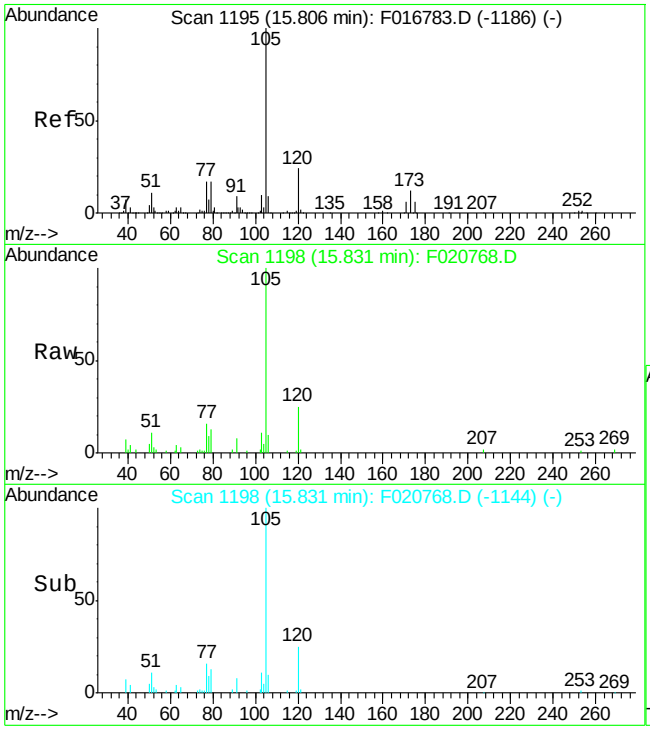


#77
o-Xylene
Concen: 35.22 ug/L
RT: 15.40 min Scan# 1154
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 91 Resp: 707006

Ion	Ratio	Lower	Upper
91	100		
106	41.9	9.6	69.6
105	17.3	0.0	49.9

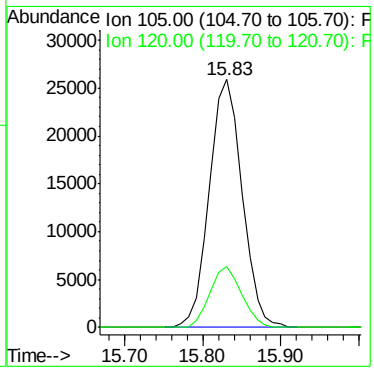


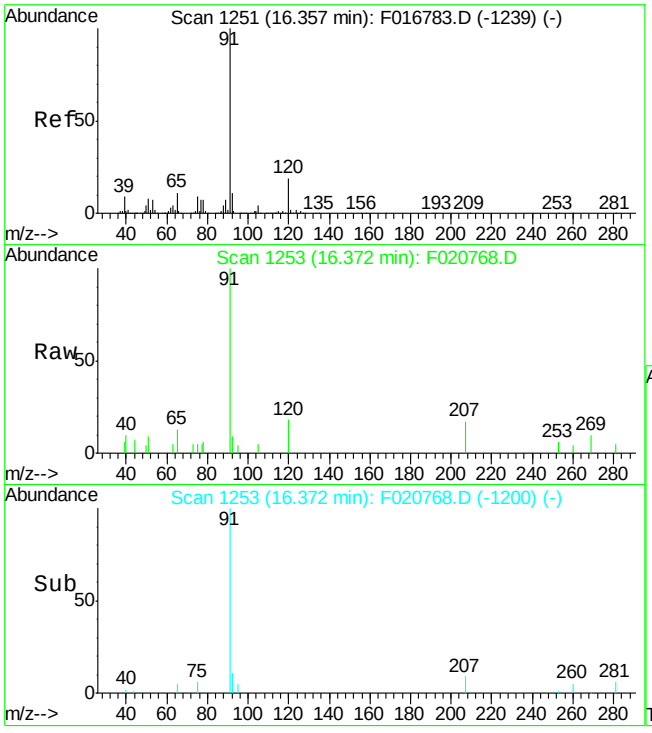


#81
Isopropylbenzene
Concen: 3.86 ug/L
RT: 15.83 min Scan# 1198
Delta R.T. 0.03 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion:105 Resp: 75582

Ion	Ratio	Lower	Upper
105	100		
120	24.5	0.0	52.8

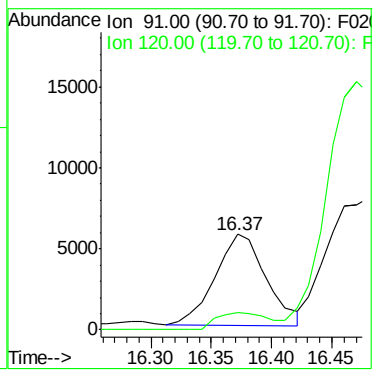


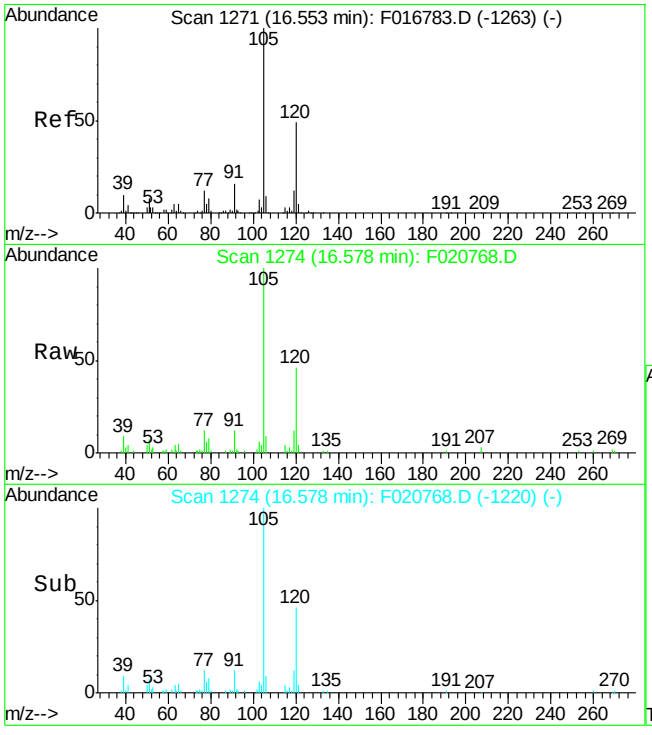


#88
n-Propylbenzene
Concen: 0.61 ug/L
RT: 16.37 min Scan# 1253
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion: 91 Resp: 16481

Ion	Ratio	Lower	Upper
91	100		
120	19.3	0.0	49.3

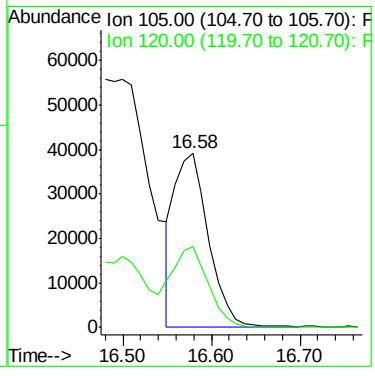


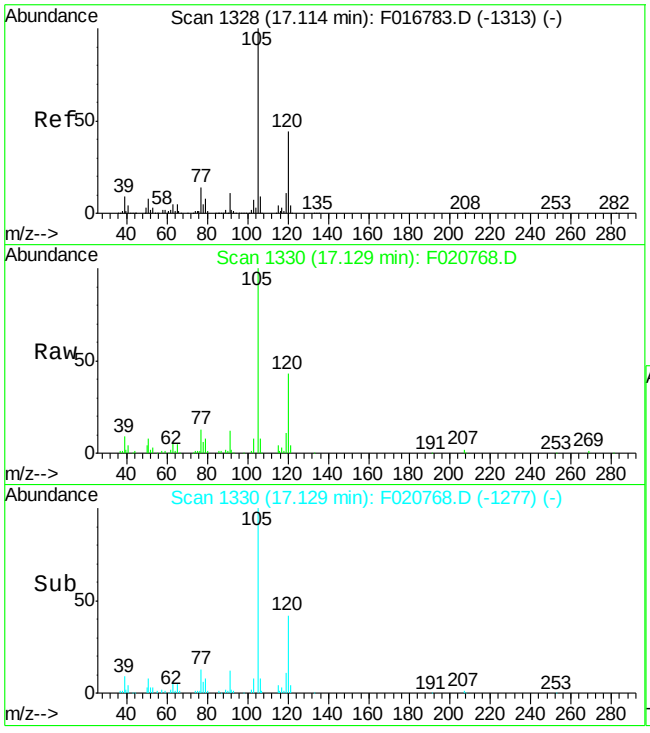


#91
1,3,5-Trimethylbenzene
Concen: 5.87 ug/L
RT: 16.58 min Scan# 1274
Delta R.T. 0.03 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion:105 Resp: 104308

Ion	Ratio	Lower	Upper
105	100		
120	46.3	15.7	75.7

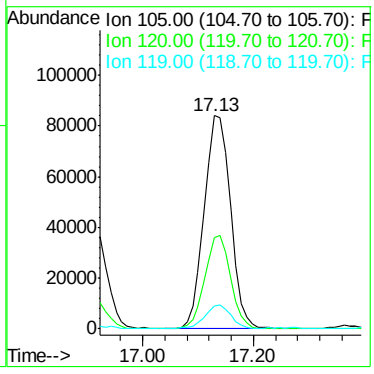


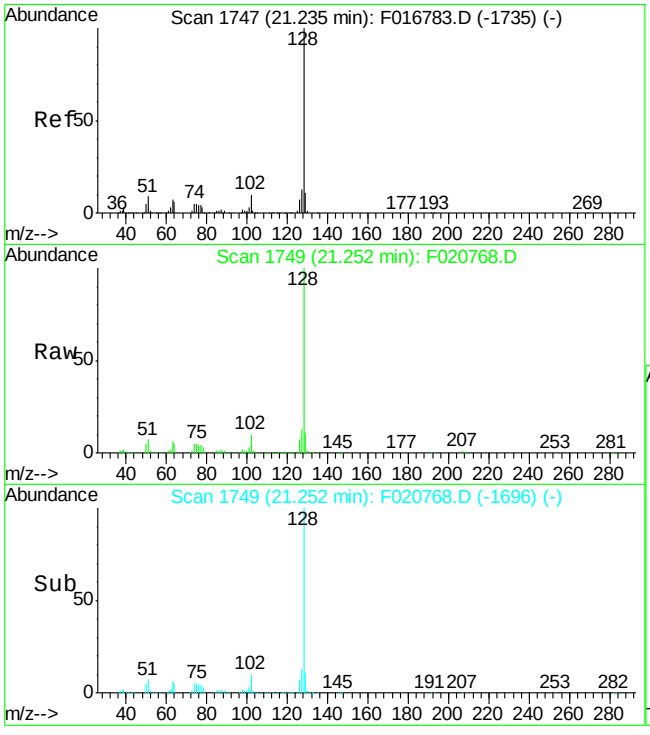


#100
1,2,4-Trimethylbenzene
Concen: 14.67 ug/L
RT: 17.13 min Scan# 1330
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion:105 Resp: 278700

Ion	Ratio	Lower	Upper
105	100		
120	42.6	12.2	72.2
119	10.2	0.0	40.6

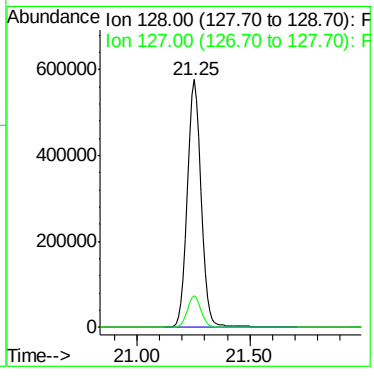




#105
Naphthalene
Concen: 342.07 ug/L
RT: 21.25 min Scan# 1749
Delta R.T. 0.02 min
Lab File: F020768.D
Acq: 14 Oct 2009 9:02 pm

Tgt Ion:128 Resp: 2454310

Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020735.D Vial: 37
Acq On : 14 Oct 2009 3:14 am Operator: AnjanaP
Sample : t39646-8 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:51 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1147662	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	895645	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	491168	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	491168	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	314329	46.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 92.38%			
45) 1,2-Dichloroethane-d4	10.29	65	353796	40.57	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 81.14%			
62) Toluene-d8	12.57	98	922203	44.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.18%			
83) 4-Bromofluorobenzene	16.16	95	406952	43.88	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 87.76%			

Target Compounds						Qvalue
46) Benzene	10.31	78	9426	0.50	ug/L #	1
63) Toluene	12.67	91	8976	0.37	ug/L	96
75) Ethylbenzene	14.66	91	17524	0.59	ug/L	88
76) m,p-Xylene	14.80	91	9026	0.39	ug/L	95
105) Naphthalene	21.23	128	3351269	412.03	ug/L	99

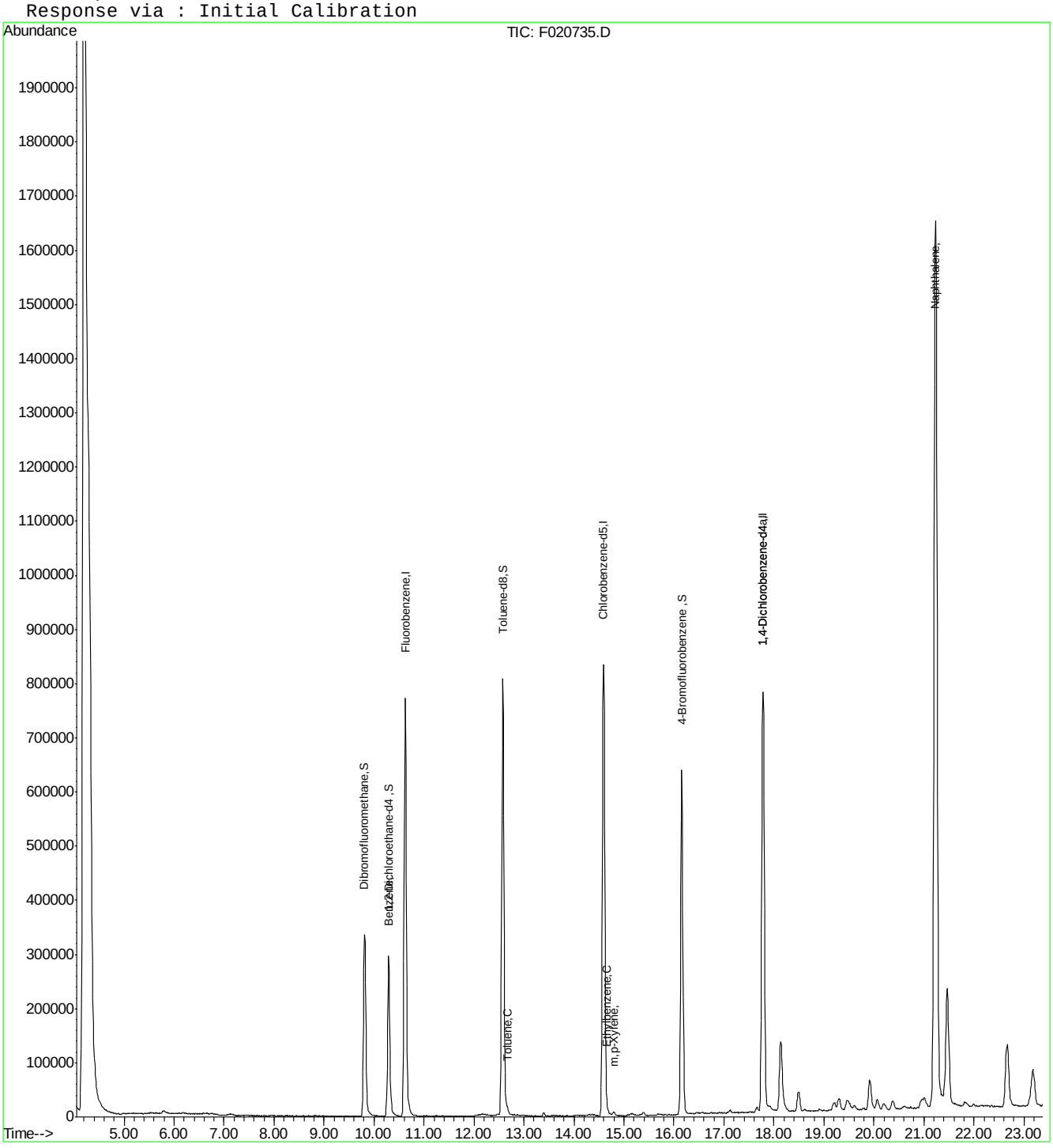
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020735.D VF3547AP9G.M Wed Oct 14 14:49:21 2009

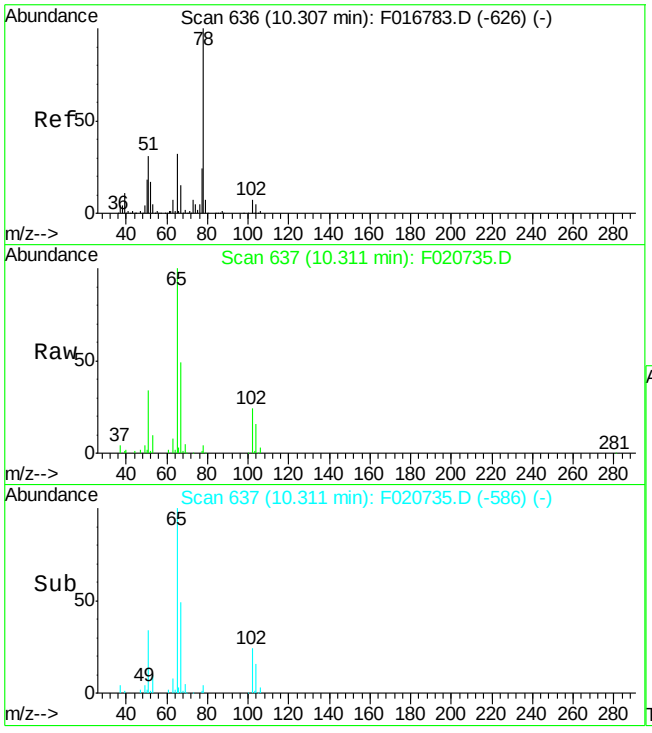
ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020735.D Vial: 37
Acq On : 14 Oct 2009 3:14 am Operator: AnjanaP
Sample : t39646-8 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:39 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

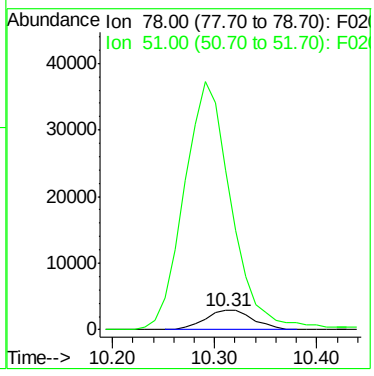


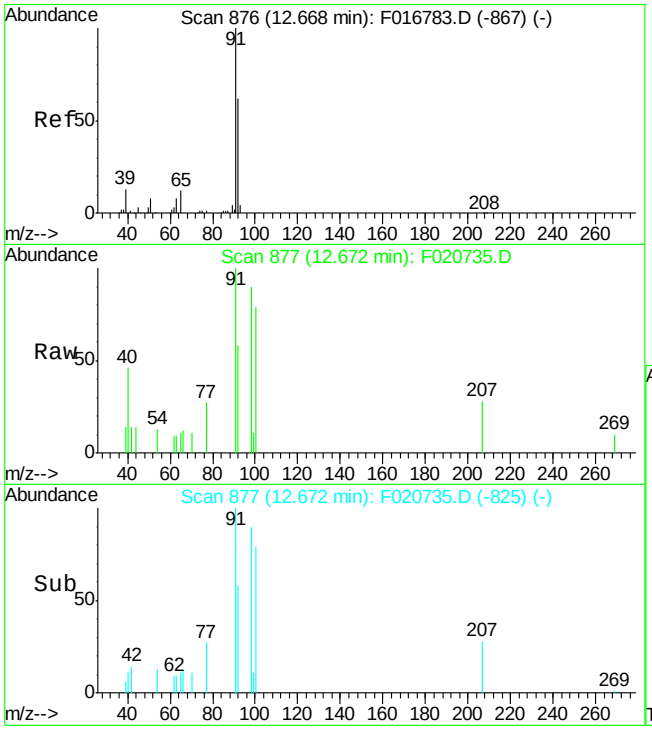


#46
Benzene
Concen: 0.50 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020735.D
Acq: 14 Oct 2009 3:14 am

Tgt Ion: 78 Resp: 9426

Ion	Ratio	Lower	Upper
78	100		
51	798.8	4.0	64.0#

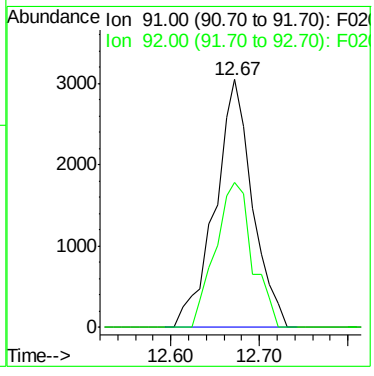


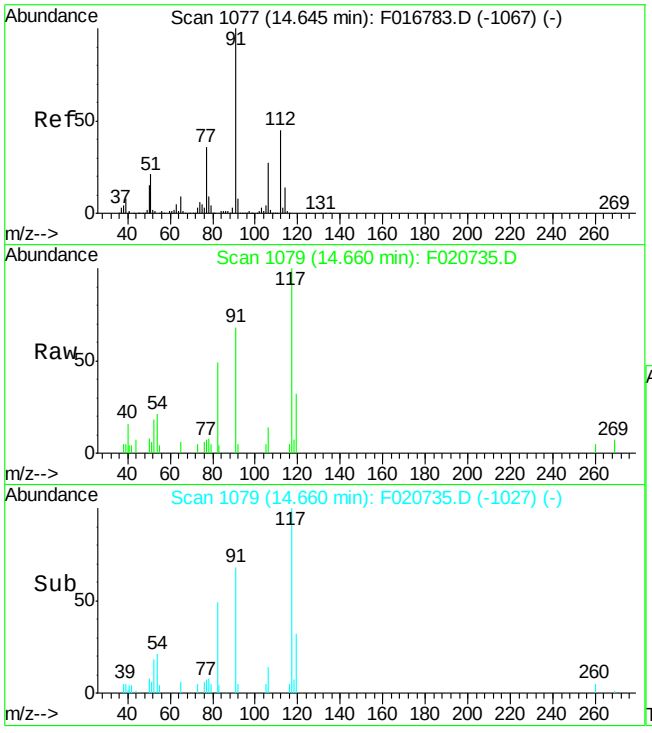


#63
Toluene
Concen: 0.37 ug/L
RT: 12.67 min Scan# 877
Delta R.T. 0.01 min
Lab File: F020735.D
Acq: 14 Oct 2009 3:14 am

Tgt Ion: 91 Resp: 8976

Ion	Ratio	Lower	Upper
91	100		
92	58.4	31.7	91.7

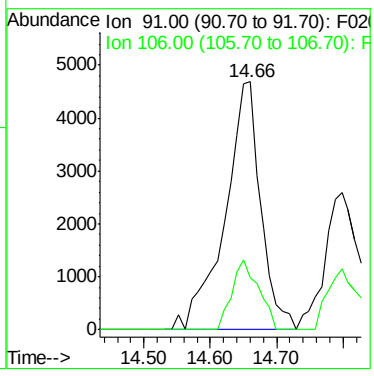


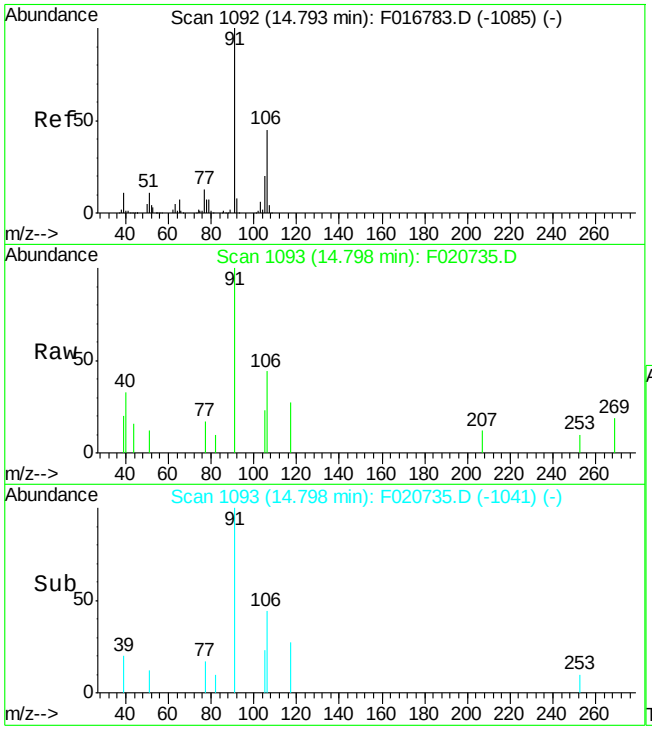


#75
Ethylbenzene
Concen: 0.59 ug/L
RT: 14.66 min Scan# 1079
Delta R.T. 0.01 min
Lab File: F020735.D
Acq: 14 Oct 2009 3:14 am

Tgt Ion: 91 Resp: 17524

Ion	Ratio	Lower	Upper
91	100		
106	21.0	0.0	57.1

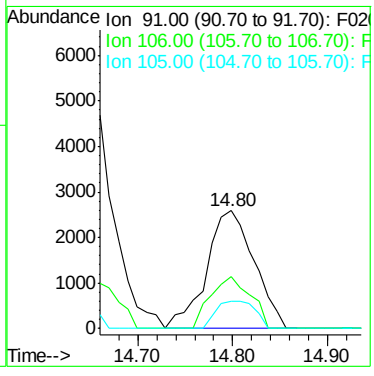


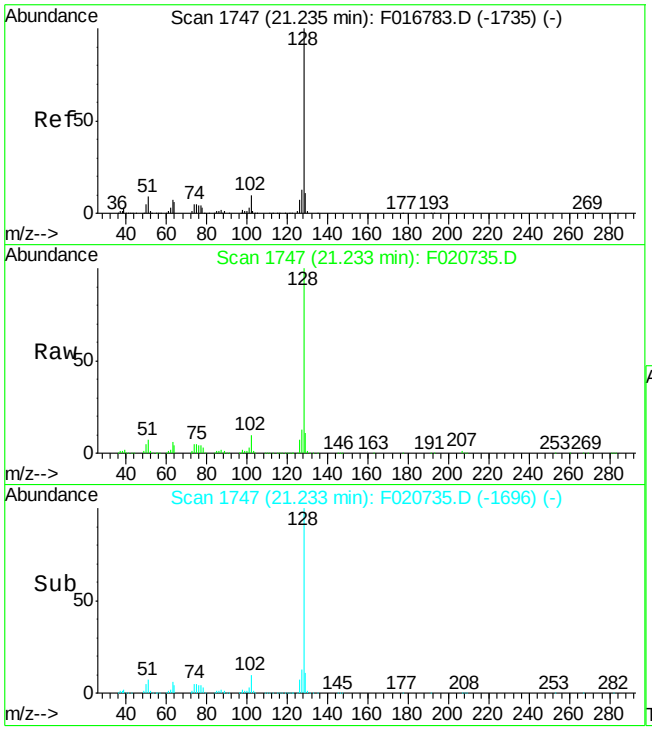


#76
m,p-Xylene
Concen: 0.39 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020735.D
Acq: 14 Oct 2009 3:14 am

Tgt Ion: 91 Resp: 9026

Ion	Ratio	Lower	Upper
91	100		
106	44.5	12.4	72.4
105	23.1	0.0	49.8

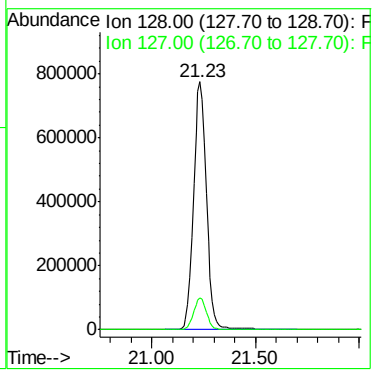




#105
Naphthalene
Concen: 412.03 ug/L
RT: 21.23 min Scan# 1747
Delta R.T. 0.00 min
Lab File: F020735.D
Acq: 14 Oct 2009 3:14 am

Tgt Ion:128 Resp: 3351269

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.5



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020736.D Vial: 38
Acq On : 14 Oct 2009 3:43 am Operator: AnjanaP
Sample : t39646-9 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:53 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1047547	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	842365	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	467979	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	467979	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	295072	47.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 95.02%			
45) 1,2-Dichloroethane-d4	10.29	65	327282	41.14	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.28%			
62) Toluene-d8	12.58	98	860362	44.25	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.50%			
83) 4-Bromofluorobenzene	16.16	95	389107	44.03	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.06%			

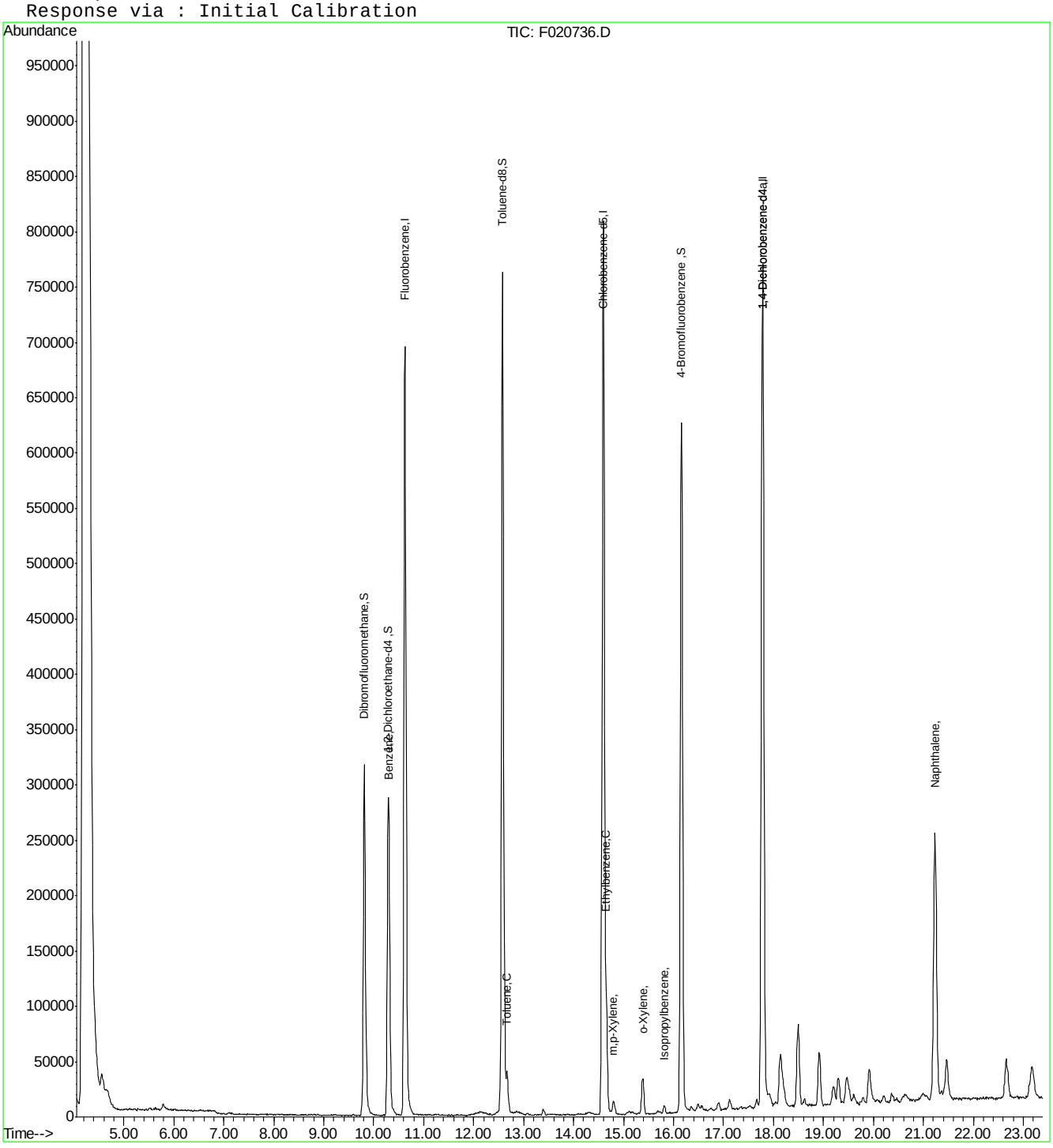
Target Compounds						Qvalue
46) Benzene	10.31	78	50202	2.92	ug/L #	1
63) Toluene	12.68	91	37845	1.68	ug/L	96
75) Ethylbenzene	14.65	91	105286	3.74	ug/L	98
76) m,p-Xylene	14.80	91	15541	0.72	ug/L	97
77) o-Xylene	15.39	91	36776	1.63	ug/L	96
81) Isopropylbenzene	15.81	105	8957	0.42	ug/L	97
105) Naphthalene	21.24	128	473980	59.39	ug/L	98

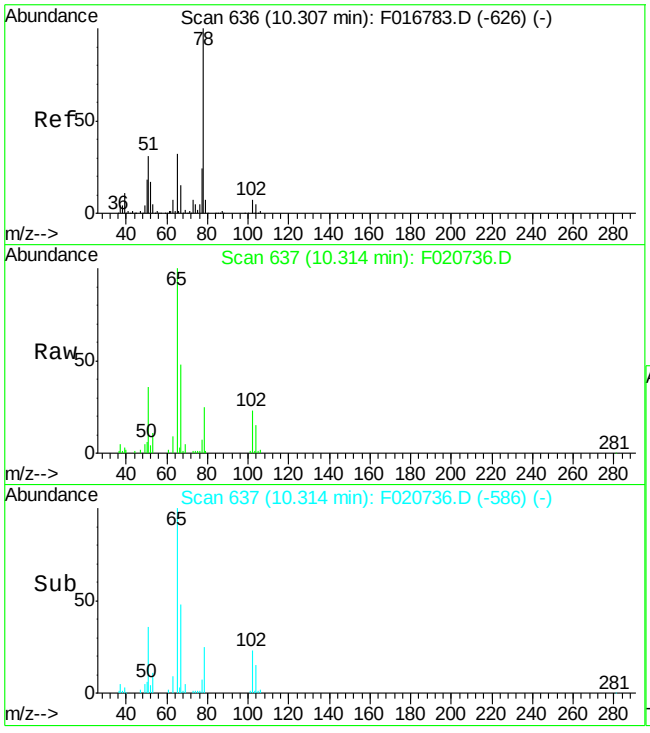
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020736.D VF3547AP9G.M Wed Oct 14 14:49:28 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020736.D Vial: 38
Acq On : 14 Oct 2009 3:43 am Operator: AnjanaP
Sample : t39646-9 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:40 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

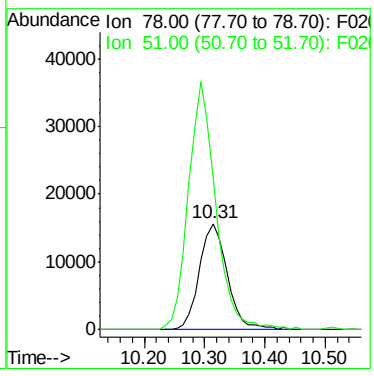


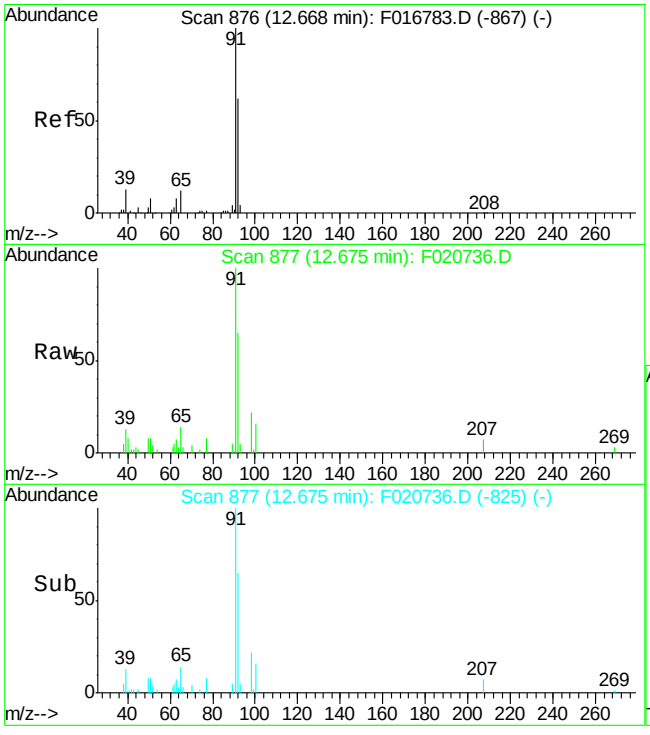


#46
Benzene
Concen: 2.92 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion: 78 Resp: 50202

Ion	Ratio	Lower	Upper
78	100		
51	140.7	4.0	64.0#

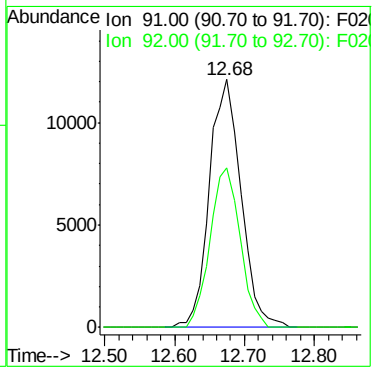


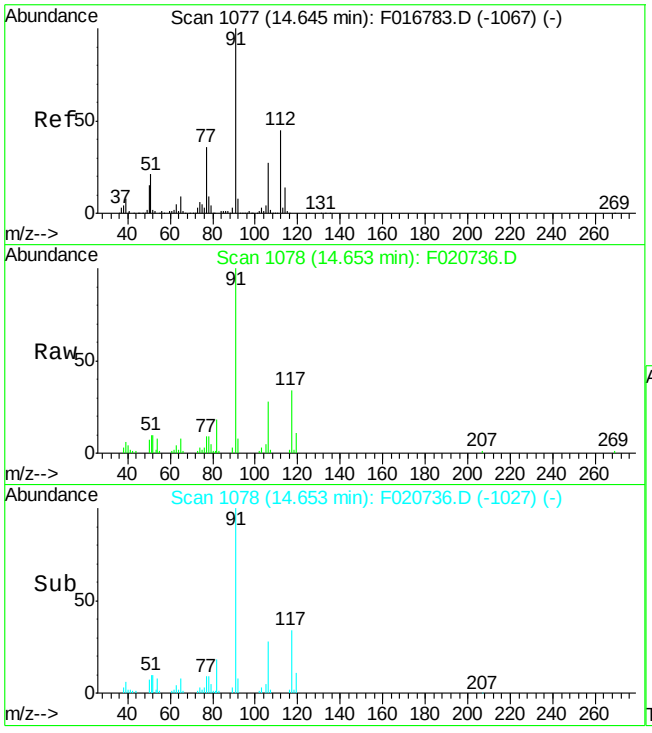


#63
Toluene
Concen: 1.68 ug/L
RT: 12.68 min Scan# 877
Delta R.T. 0.01 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion: 91 Resp: 37845

Ion	Ratio	Lower	Upper
91	100		
92	64.6	31.7	91.7

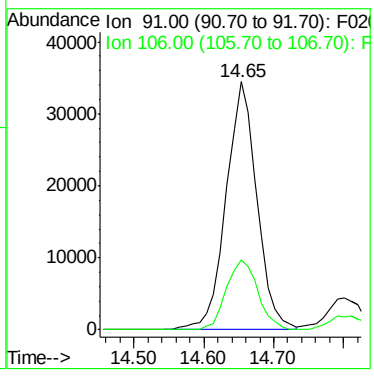


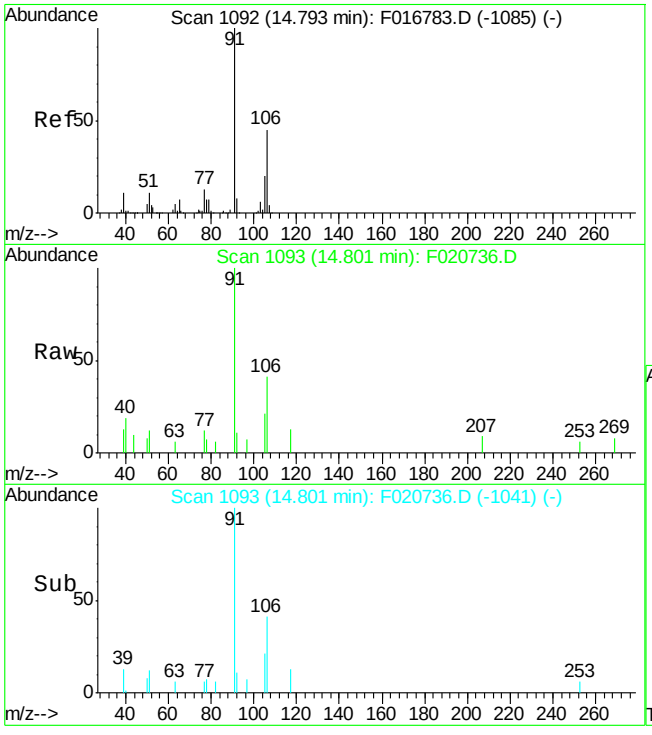


#75
Ethylbenzene
Concen: 3.74 ug/L
RT: 14.65 min Scan# 1078
Delta R.T. 0.00 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion: 91 Resp: 105286

Ion	Ratio	Lower	Upper
91	100		
106	28.2	0.0	57.1

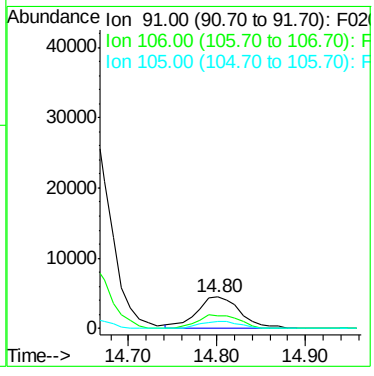


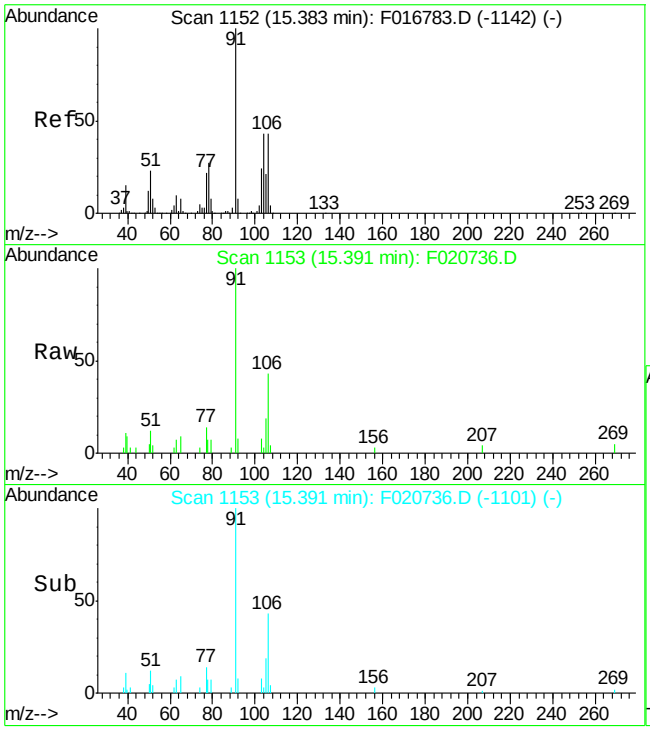


#76
m,p-Xylene
Concen: 0.72 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion: 91 Resp: 15541

Ion	Ratio	Lower	Upper
91	100		
106	40.5	12.4	72.4
105	20.8	0.0	49.8

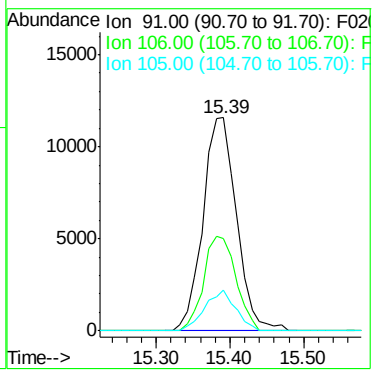


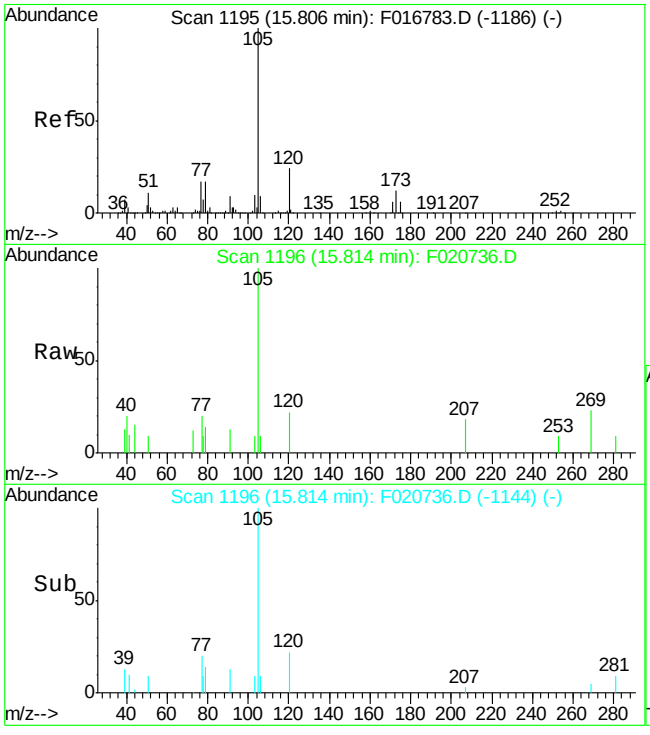


#77
o-Xylene
Concen: 1.63 ug/L
RT: 15.39 min Scan# 1153
Delta R.T. 0.01 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion: 91 Resp: 36776

Ion	Ratio	Lower	Upper
91	100		
106	43.2	9.6	69.6
105	19.3	0.0	49.9

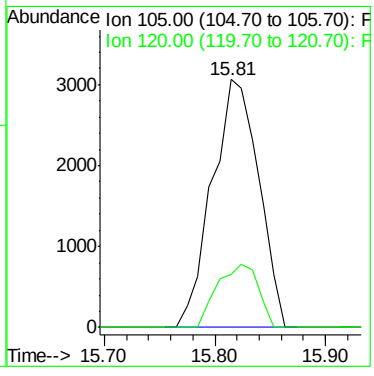


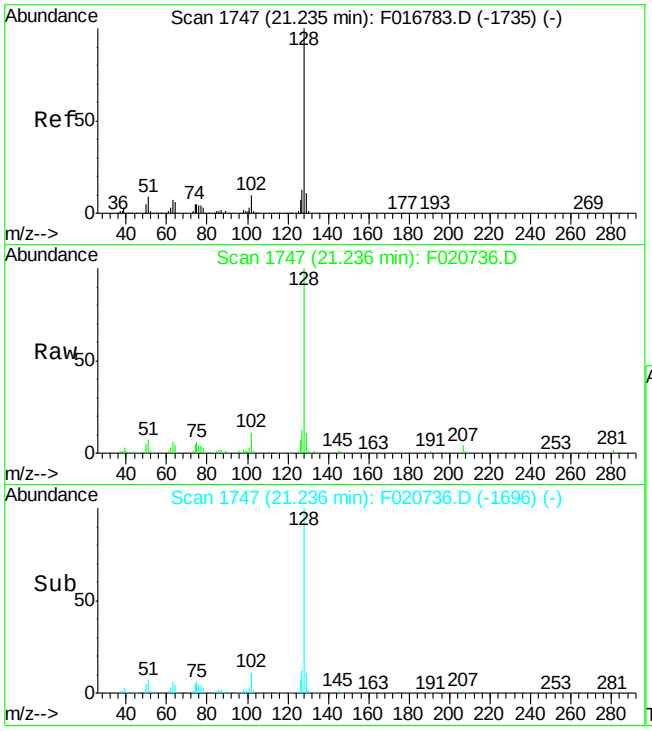


#81
Isopropylbenzene
Concen: 0.42 ug/L
RT: 15.81 min Scan# 1196
Delta R.T. 0.01 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion:105 Resp: 8957

Ion	Ratio	Lower	Upper
105	100		
120	21.5	0.0	52.8

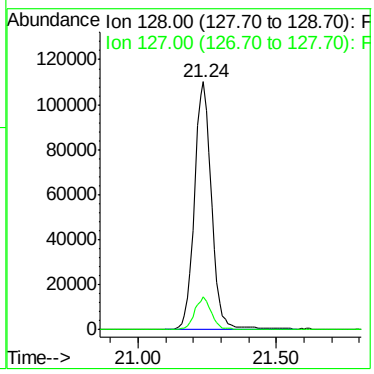




#105
Naphthalene
Concen: 59.39 ug/L
RT: 21.24 min Scan# 1747
Delta R.T. 0.00 min
Lab File: F020736.D
Acq: 14 Oct 2009 3:43 am

Tgt Ion:128 Resp: 473980

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020737.D Vial: 39
Acq On : 14 Oct 2009 4:14 am Operator: AnjanaP
Sample : t39646-10 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:54 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1022428	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	817548	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	462055	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	462055	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	295719	48.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.56%			
45) 1,2-Dichloroethane-d4	10.29	65	349683	45.23	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 90.46%			
62) Toluene-d8	12.58	98	832264	44.11	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.22%			
83) 4-Bromofluorobenzene	16.15	95	381831	43.76	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 87.52%			

Target Compounds

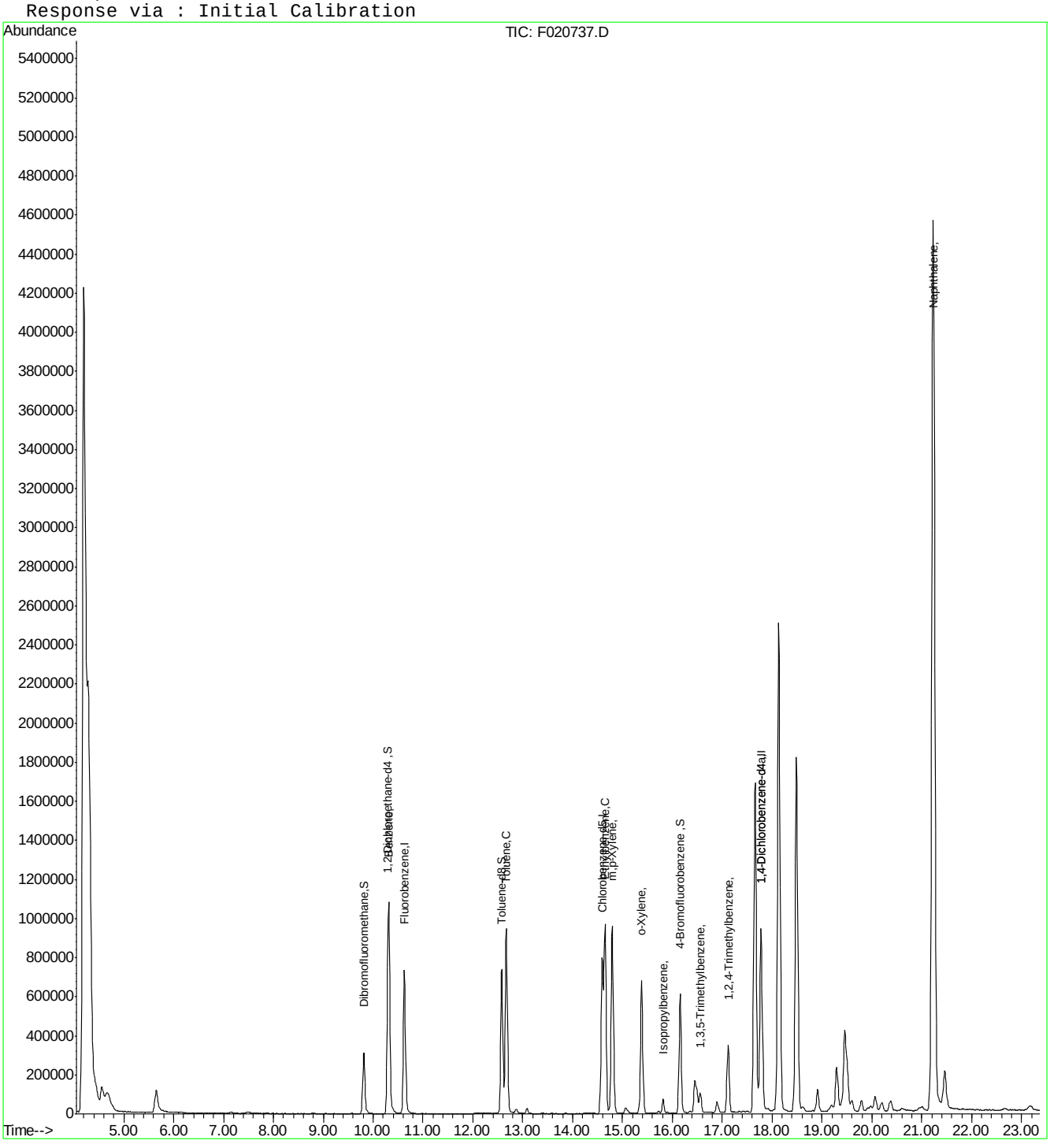
						Qvalue
46) Benzene	10.31	78	1235669	73.66	ug/L	86
63) Toluene	12.67	91	1177804	53.72	ug/L	99
75) Ethylbenzene	14.65	91	1265306	46.34	ug/L	99
76) m,p-Xylene	14.80	91	1072662	51.05	ug/L	97
77) o-Xylene	15.38	91	754358	34.51	ug/L	95
81) Isopropylbenzene	15.81	105	83981	4.01	ug/L	97
91) 1,3,5-Trimethylbenzene	16.56	105	99150	5.22	ug/L	95
100) 1,2,4-Trimethylbenzene	17.12	105	384538	18.96	ug/L	98
105) Naphthalene	21.23	128	9362100	1227.68	ug/L	99

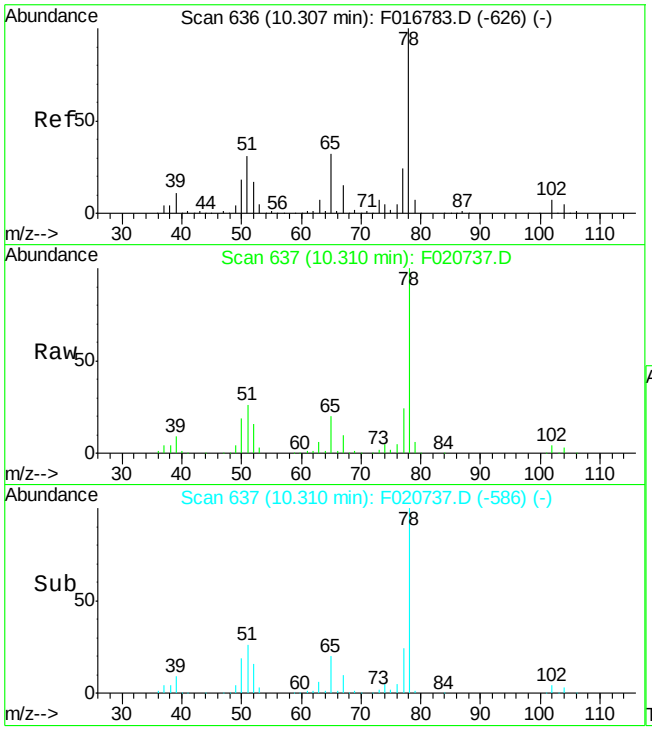
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020737.D Vial: 39
Acq On : 14 Oct 2009 4:14 am Operator: AnjanaP
Sample : t39646-10 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:41 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

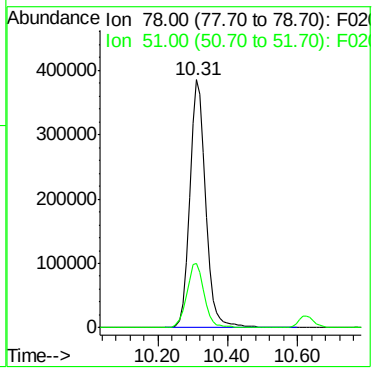


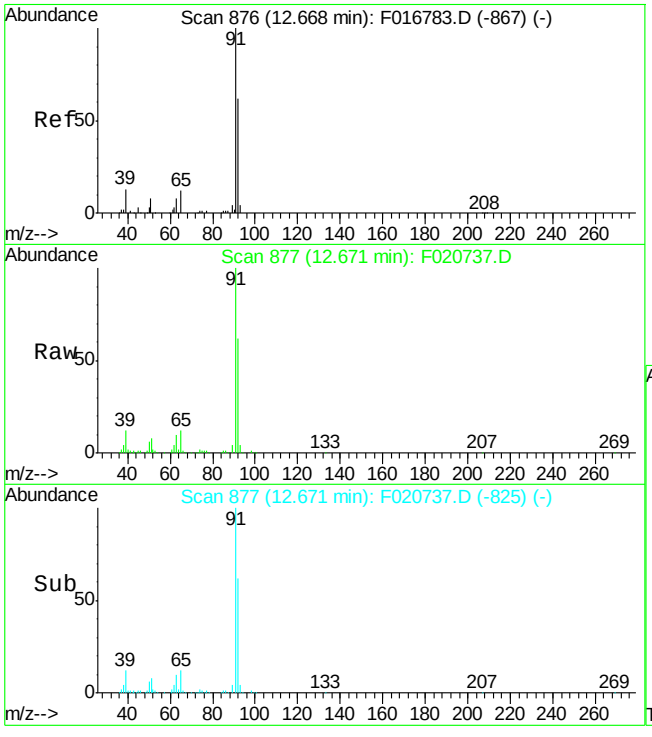


#46
Benzene
Concen: 73.66 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion: 78 Resp: 1235669

Ion	Ratio	Lower	Upper
78	100		
51	25.8	4.0	64.0

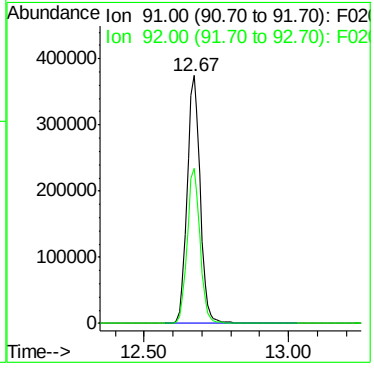


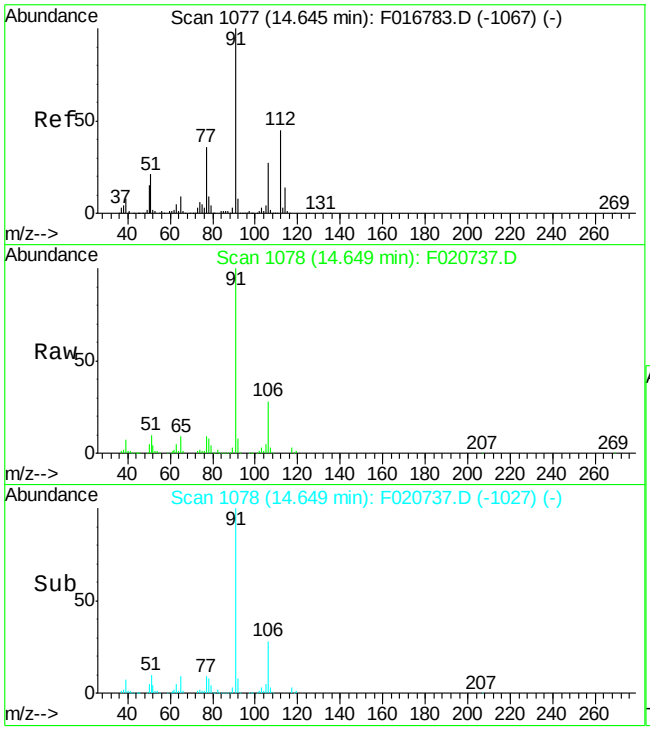


#63
Toluene
Concen: 53.72 ug/L
RT: 12.67 min Scan# 877
Delta R.T. 0.01 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion: 91 Resp: 1177804

Ion	Ratio	Lower	Upper
91	100		
92	62.4	31.7	91.7

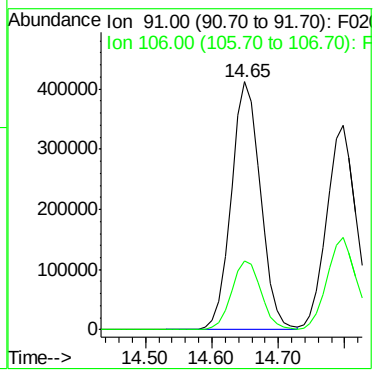


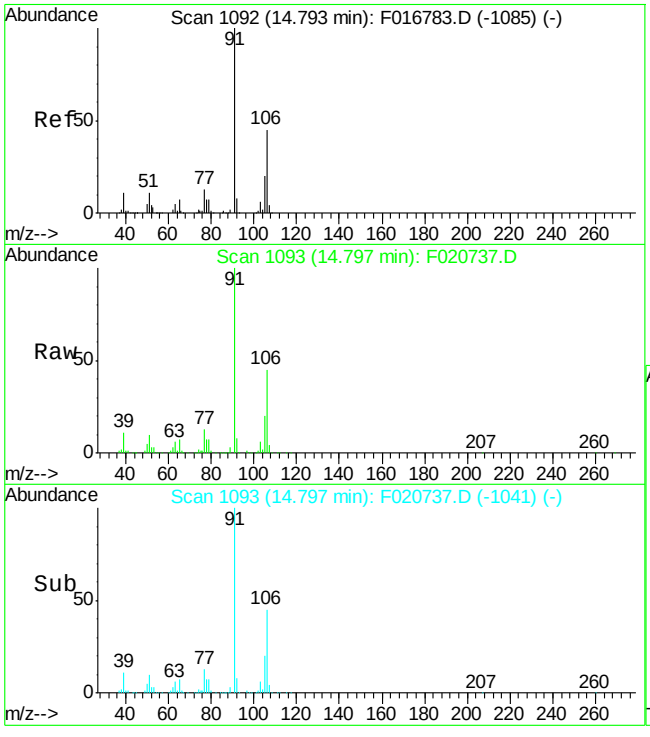


#75
Ethylbenzene
Concen: 46.34 ug/L
RT: 14.65 min Scan# 1078
Delta R.T. 0.00 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion: 91 Resp: 1265306

Ion	Ratio	Lower	Upper
91	100		
106	27.8	0.0	57.1

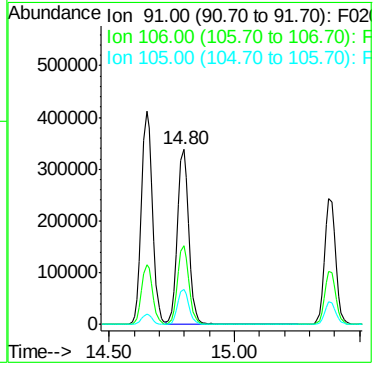


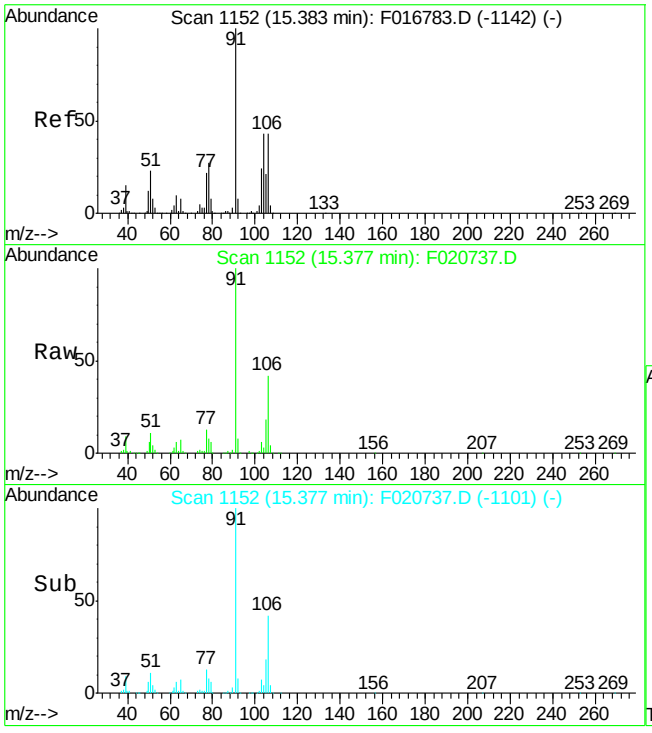


#76
m,p-Xylene
Concen: 51.05 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion: 91 Resp: 1072662

Ion	Ratio	Lower	Upper
91	100		
106	45.3	12.4	72.4
105	20.1	0.0	49.8

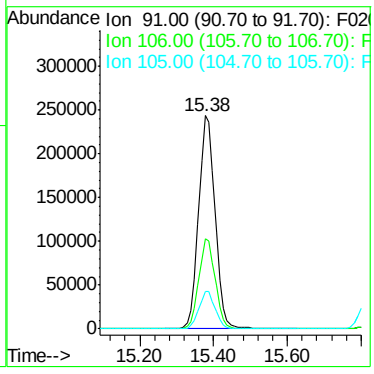


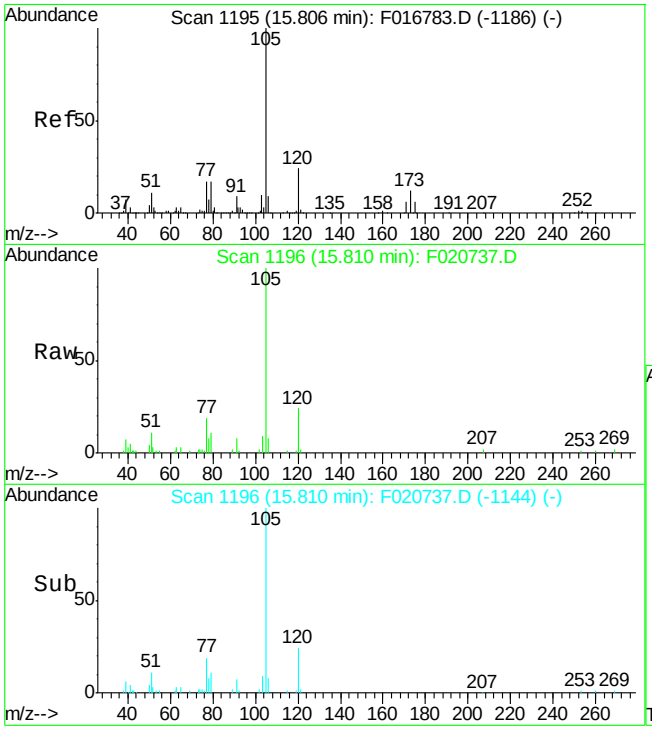


#77
o-Xylene
Concen: 34.51 ug/L
RT: 15.38 min Scan# 1152
Delta R.T. 0.00 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion: 91 Resp: 754358

Ion	Ratio	Lower	Upper
91	100		
106	42.4	9.6	69.6
105	17.8	0.0	49.9

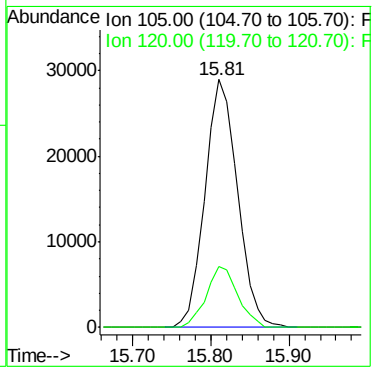


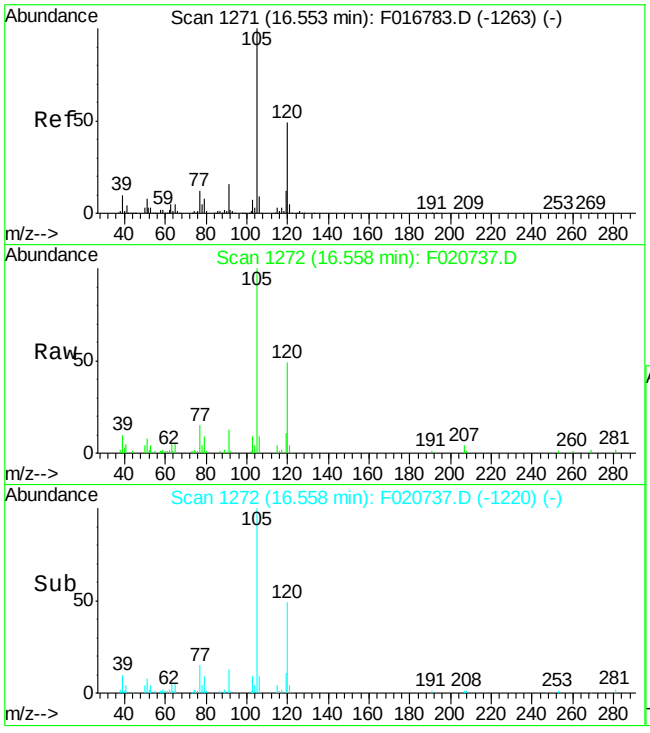


#81
Isopropylbenzene
Concen: 4.01 ug/L
RT: 15.81 min Scan# 1196
Delta R.T. 0.01 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion:105 Resp: 83981

Ion	Ratio	Lower	Upper
105	100		
120	24.4	0.0	52.8

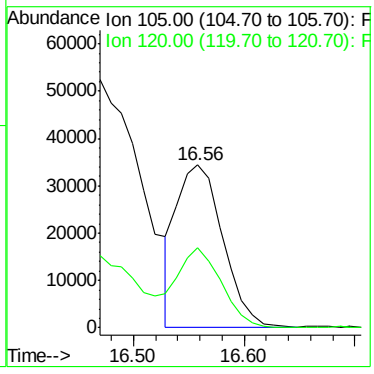


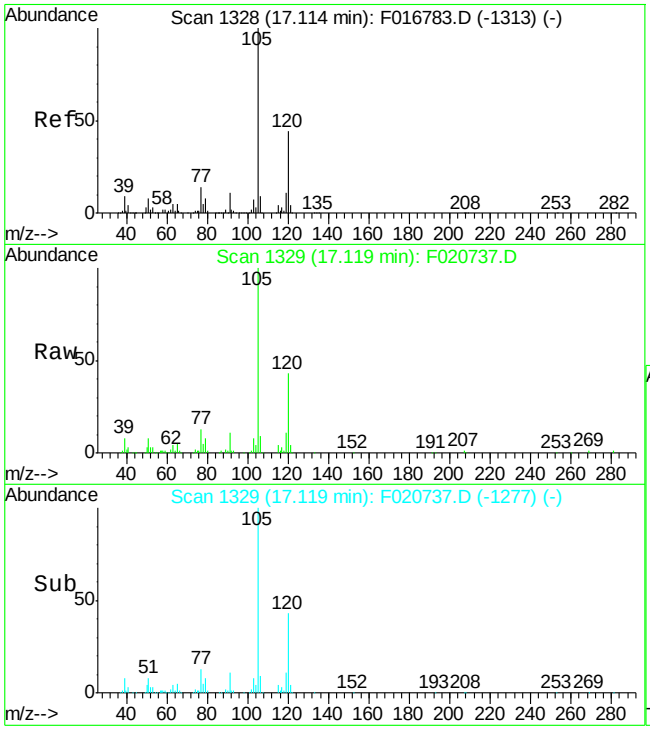


#91
1,3,5-Trimethylbenzene
Concen: 5.22 ug/L
RT: 16.56 min Scan# 1272
Delta R.T. 0.01 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion:105 Resp: 99150

Ion	Ratio	Lower	Upper
105	100		
120	49.0	15.7	75.7

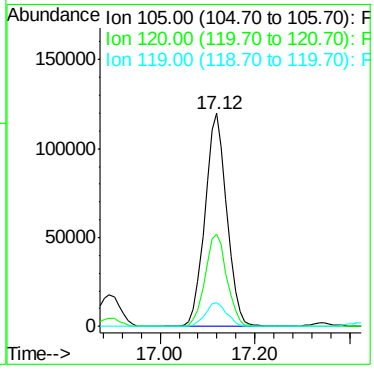


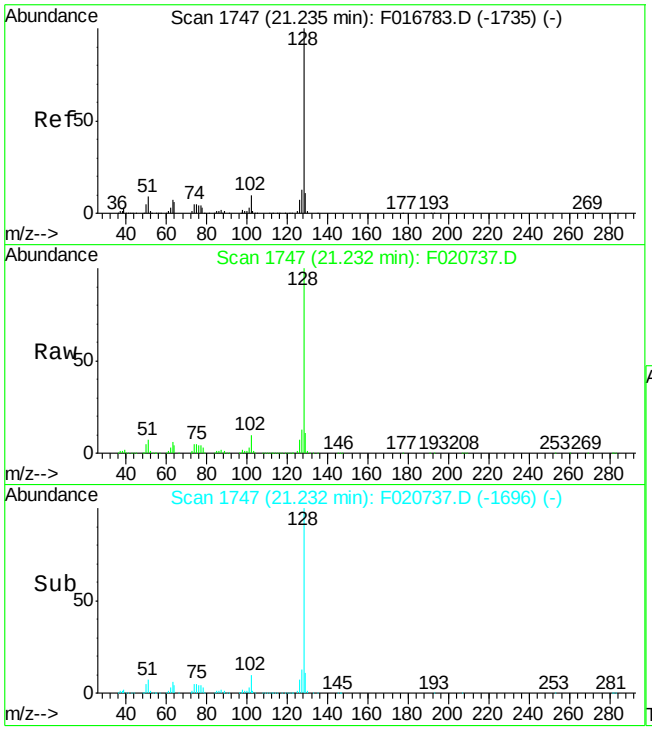


#100
1,2,4-Trimethylbenzene
Concen: 18.96 ug/L
RT: 17.12 min Scan# 1329
Delta R.T. 0.01 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion:105 Resp: 384538

Ion	Ratio	Lower	Upper
105	100		
120	43.2	12.2	72.2
119	11.0	0.0	40.6

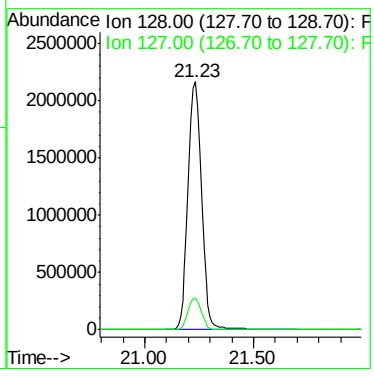




#105
Naphthalene
Concen: 1227.68 ug/L
RT: 21.23 min Scan# 1747
Delta R.T. 0.00 min
Lab File: F020737.D
Acq: 14 Oct 2009 4:14 am

Tgt Ion:128 Resp: 9362100

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020738.D Vial: 40
Acq On : 14 Oct 2009 4:44 am Operator: AnjanaP
Sample : t39646-11 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:55 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1017168	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	805578	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	452215	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	452215	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	285143	47.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 94.56%			
45) 1,2-Dichloroethane-d4	10.29	65	326983	42.39	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.78%			
62) Toluene-d8	12.57	98	820798	44.15	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.30%			
83) 4-Bromofluorobenzene	16.15	95	369997	43.34	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.68%			

Target Compounds

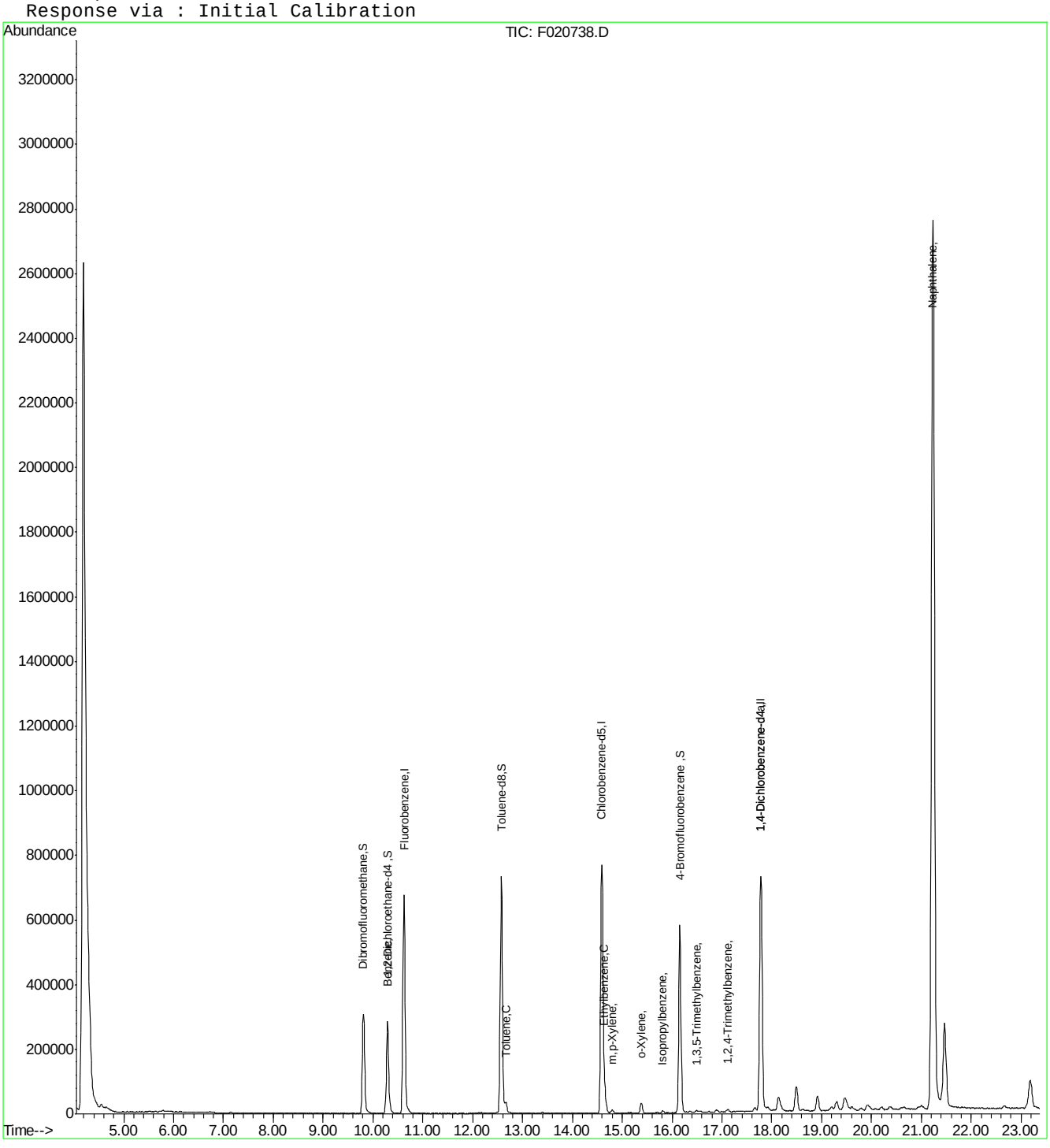
						Qvalue
46) Benzene	10.31	78	45961	2.75	ug/L #	1
63) Toluene	12.66	91	33700	1.56	ug/L	95
75) Ethylbenzene	14.65	91	97426	3.62	ug/L	97
76) m,p-Xylene	14.80	91	14223	0.69	ug/L	91
77) o-Xylene	15.38	91	35226	1.64	ug/L	96
81) Isopropylbenzene	15.81	105	8236	0.40	ug/L	86
91) 1,3,5-Trimethylbenzene	16.49	105	10264	0.55	ug/L	79
100) 1,2,4-Trimethylbenzene	17.11	105	10731	0.54	ug/L	93
105) Naphthalene	21.23	128	5572429	745.81	ug/L	99

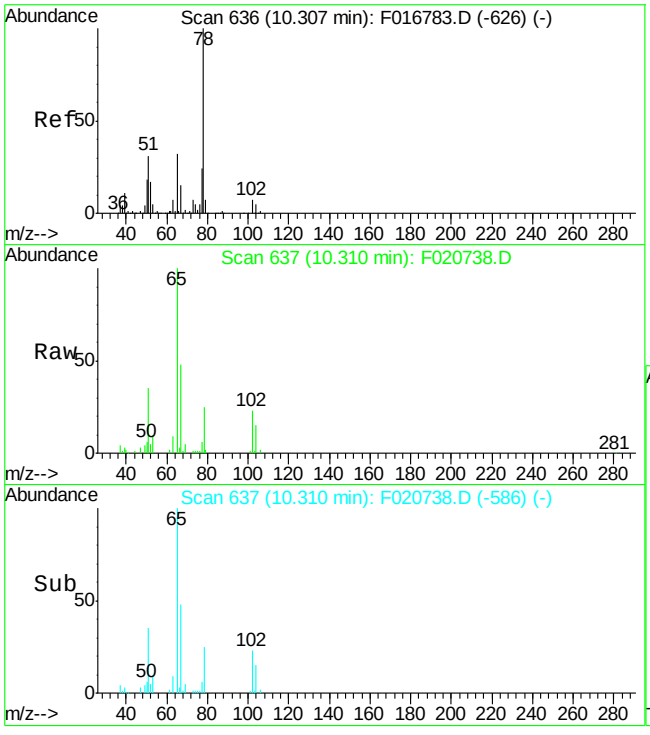
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020738.D Vial: 40
Acq On : 14 Oct 2009 4:44 am Operator: AnjanaP
Sample : t39646-11 Inst : GC/MS F
Misc : ms7101,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:42 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

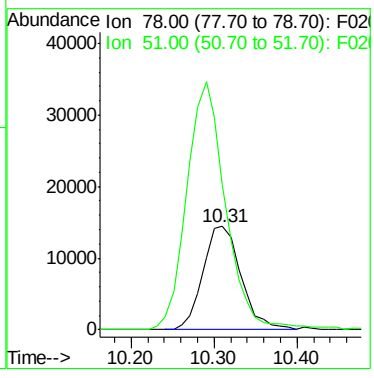


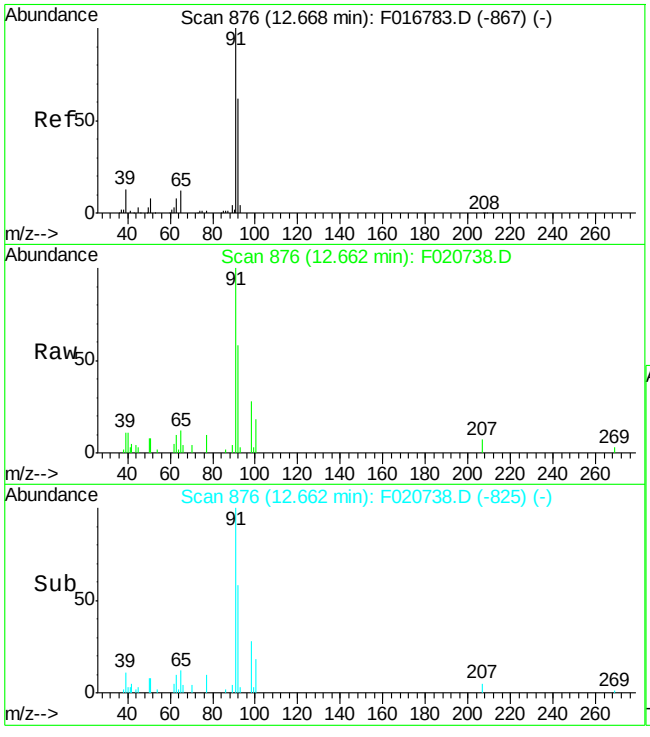


#46
Benzene
Concen: 2.75 ug/L
RT: 10.31 min Scan# 637
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion: 78 Resp: 45961

Ion	Ratio	Lower	Upper
78	100		
51	137.6	4.0	64.0#

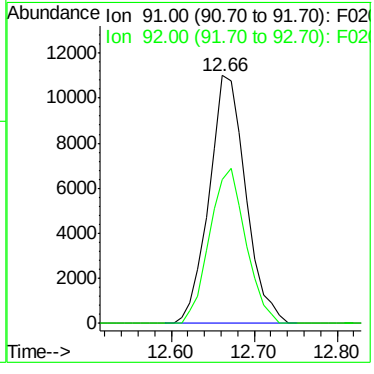


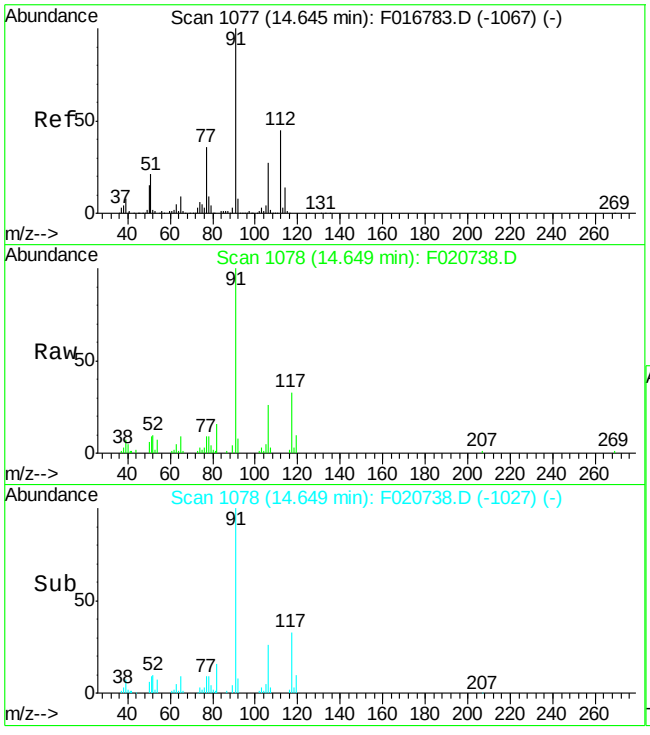


#63
Toluene
Concen: 1.56 ug/L
RT: 12.66 min Scan# 876
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion: 91 Resp: 33700

Ion	Ratio	Lower	Upper
91	100		
92	58.0	31.7	91.7

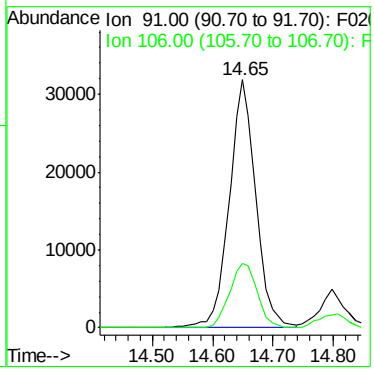


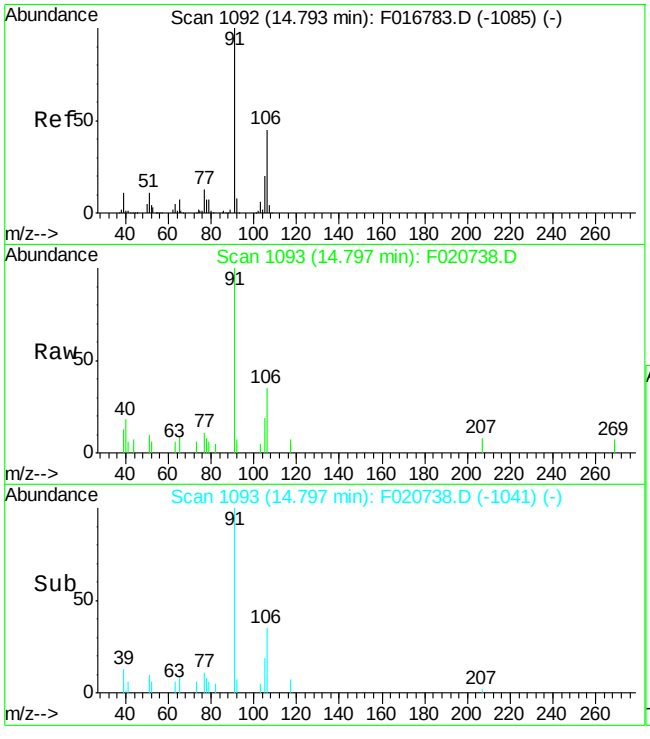


#75
Ethylbenzene
Concen: 3.62 ug/L
RT: 14.65 min Scan# 1078
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion: 91 Resp: 97426

Ion	Ratio	Lower	Upper
91	100		
106	25.8	0.0	57.1

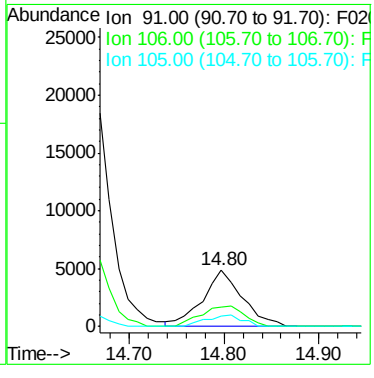


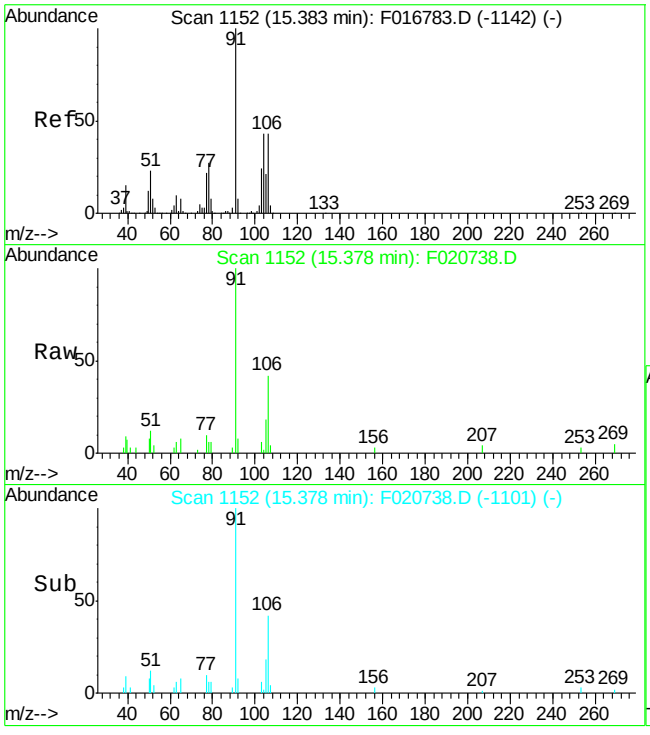


#76
m,p-Xylene
Concen: 0.69 ug/L
RT: 14.80 min Scan# 1093
Delta R.T. 0.01 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion: 91 Resp: 14223

Ion	Ratio	Lower	Upper
91	100		
106	34.7	12.4	72.4
105	18.6	0.0	49.8

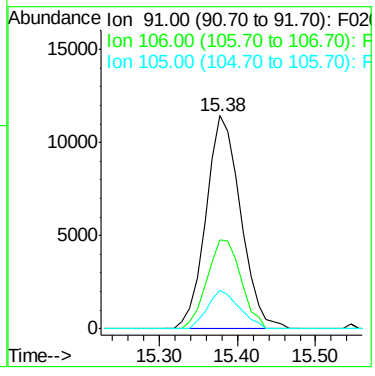


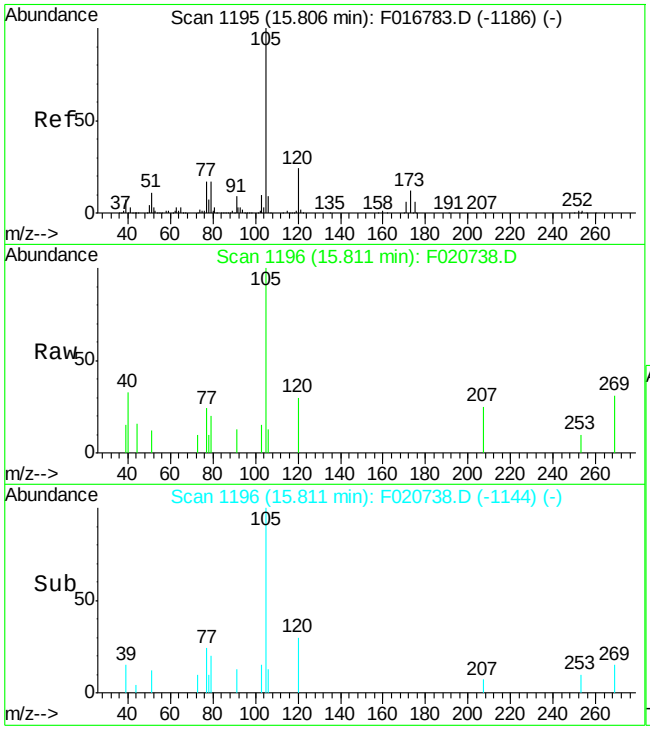


#77
o-Xylene
Concen: 1.64 ug/L
RT: 15.38 min Scan# 1152
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion: 91 Resp: 35226

Ion	Ratio	Lower	Upper
91	100		
106	41.5	9.6	69.6
105	17.9	0.0	49.9

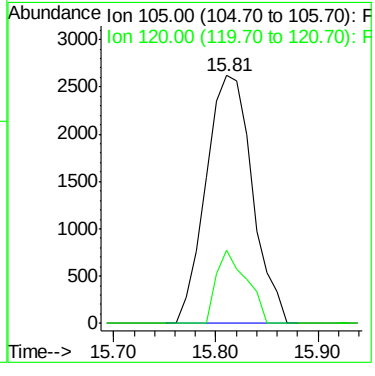


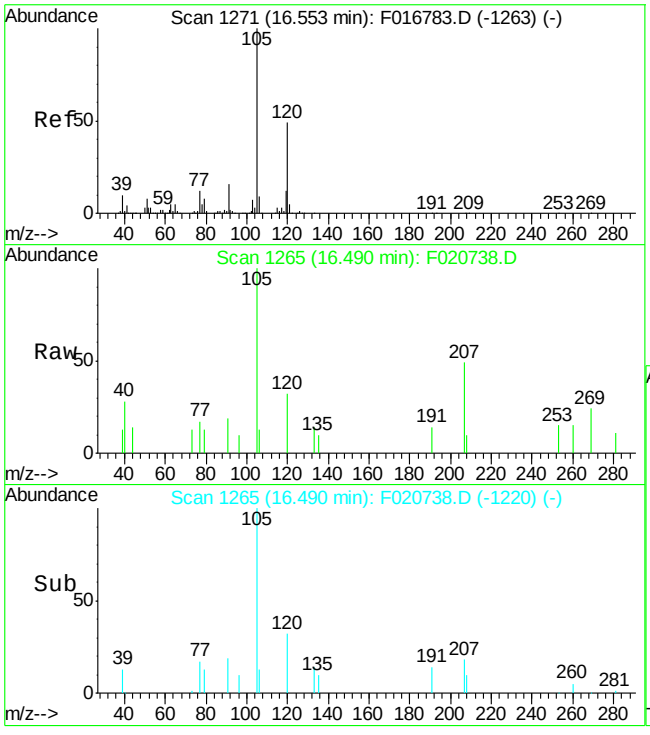


#81
Isopropylbenzene
Concen: 0.40 ug/L
RT: 15.81 min Scan# 1196
Delta R.T. 0.01 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion:105 Resp: 8236

Ion	Ratio	Lower	Upper
105	100		
120	29.6	0.0	52.8

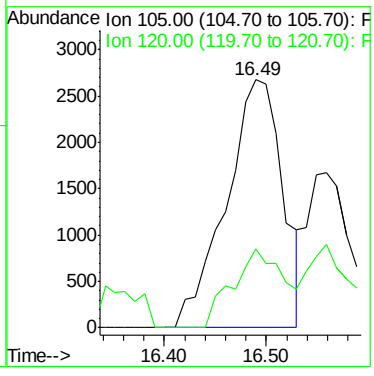


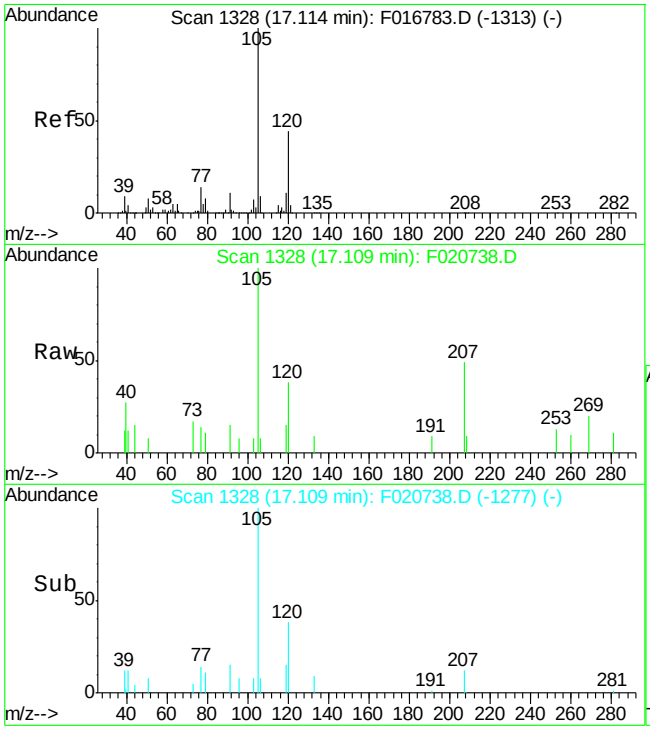


#91
1,3,5-Trimethylbenzene
Concen: 0.55 ug/L
RT: 16.49 min Scan# 1265
Delta R.T. -0.06 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion:105 Resp: 10264

Ion	Ratio	Lower	Upper
105	100		
120	31.6	15.7	75.7

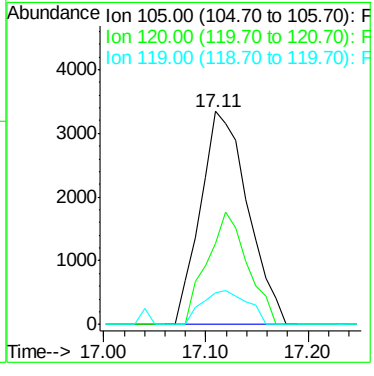


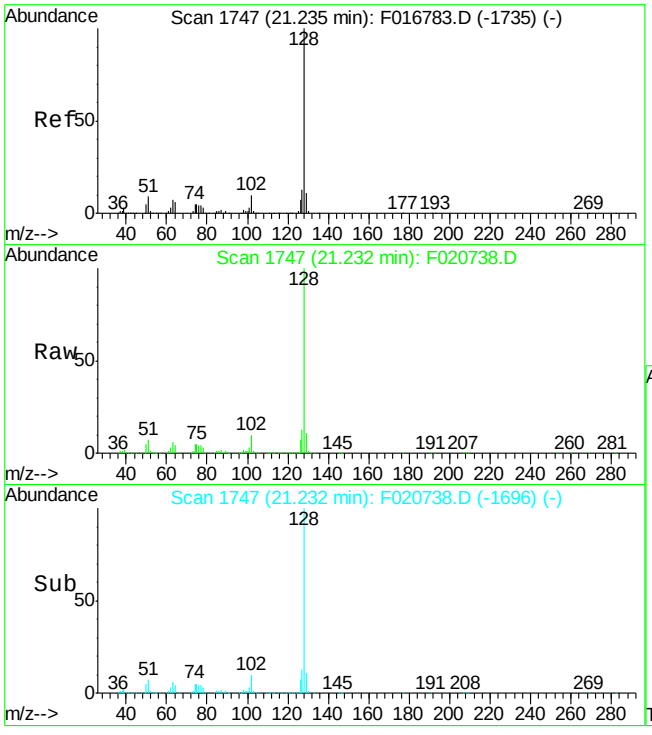


#100
1,2,4-Trimethylbenzene
Concen: 0.54 ug/L
RT: 17.11 min Scan# 1328
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion:105 Resp: 10731

Ion	Ratio	Lower	Upper
105	100		
120	38.1	12.2	72.2
119	14.7	0.0	40.6

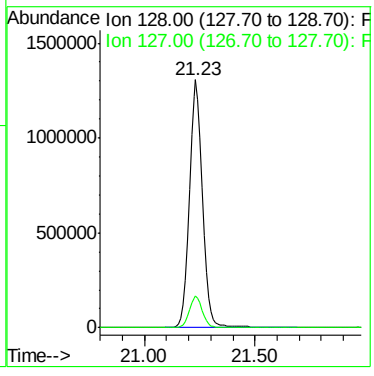




#105
Naphthalene
Concen: 745.81 ug/L
RT: 21.23 min Scan# 1747
Delta R.T. 0.00 min
Lab File: F020738.D
Acq: 14 Oct 2009 4:44 am

Tgt Ion:128 Resp: 5572429

Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020706.D Vial: 8
Acq On : 13 Oct 2009 12:41 pm Operator: AnjanaP
Sample : t39646-12 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:35 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	921085	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.58	117	732192	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	411701	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	411701	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	268775	49.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.44%			
45) 1,2-Dichloroethane-d4	10.29	65	339609	48.92	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 97.84%			
62) Toluene-d8	12.58	98	750624	43.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.22%			
83) 4-Bromofluorobenzene	16.15	95	347995	44.75	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.50%			

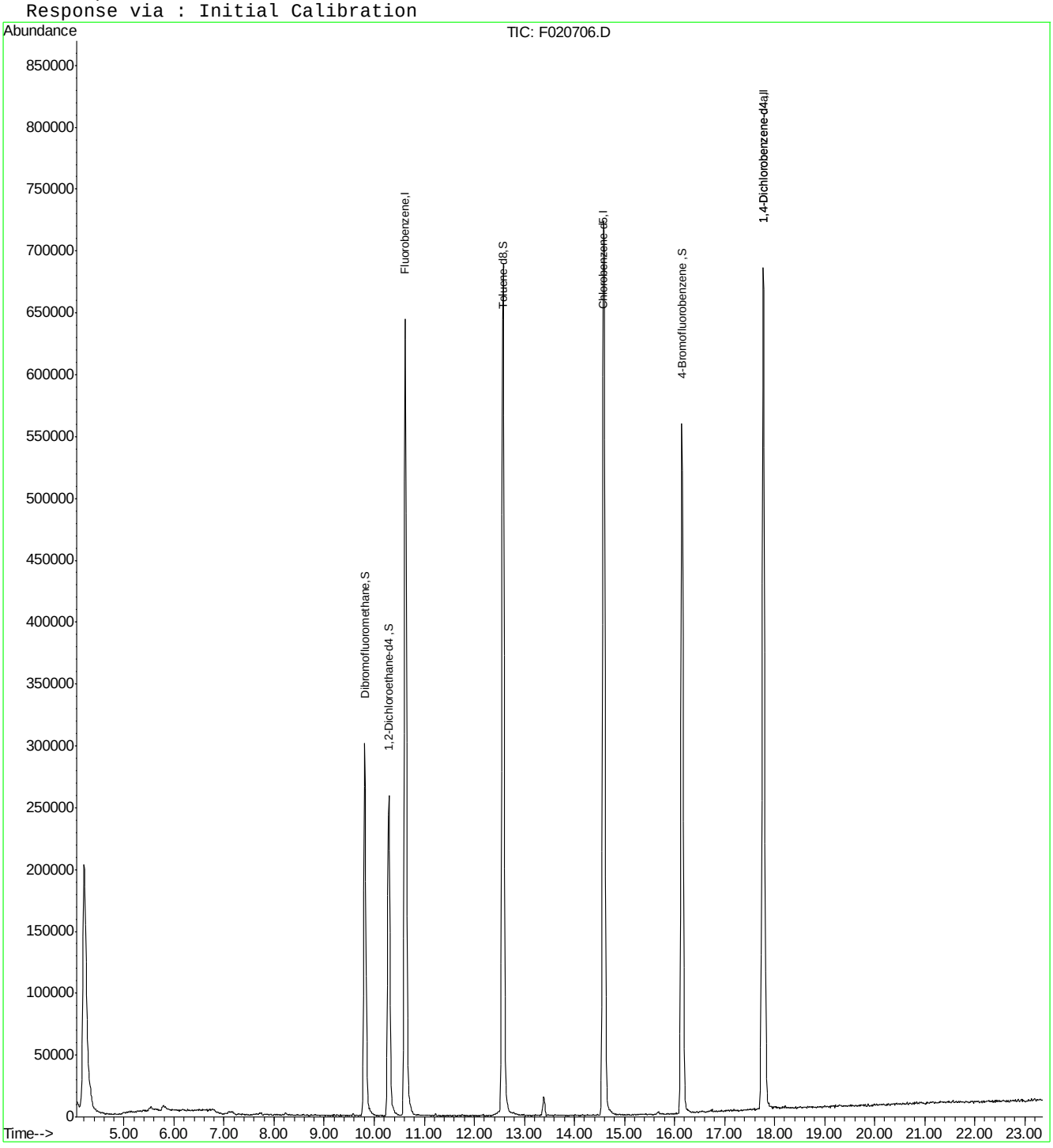
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020706.D Vial: 8
Acq On : 13 Oct 2009 12:41 pm Operator: AnjanaP
Sample : t39646-12 Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:13 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020704.D Vial: 6
Acq On : 13 Oct 2009 11:41 am Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:34 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	870424	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.58	117	692754	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	391902	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	391902	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	258672	50.12	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.24%			
45) 1,2-Dichloroethane-d4	10.28	65	323653	49.35	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.70%			
62) Toluene-d8	12.56	98	711258	43.67	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.34%			
83) 4-Bromofluorobenzene	16.15	95	333848	45.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.18%			

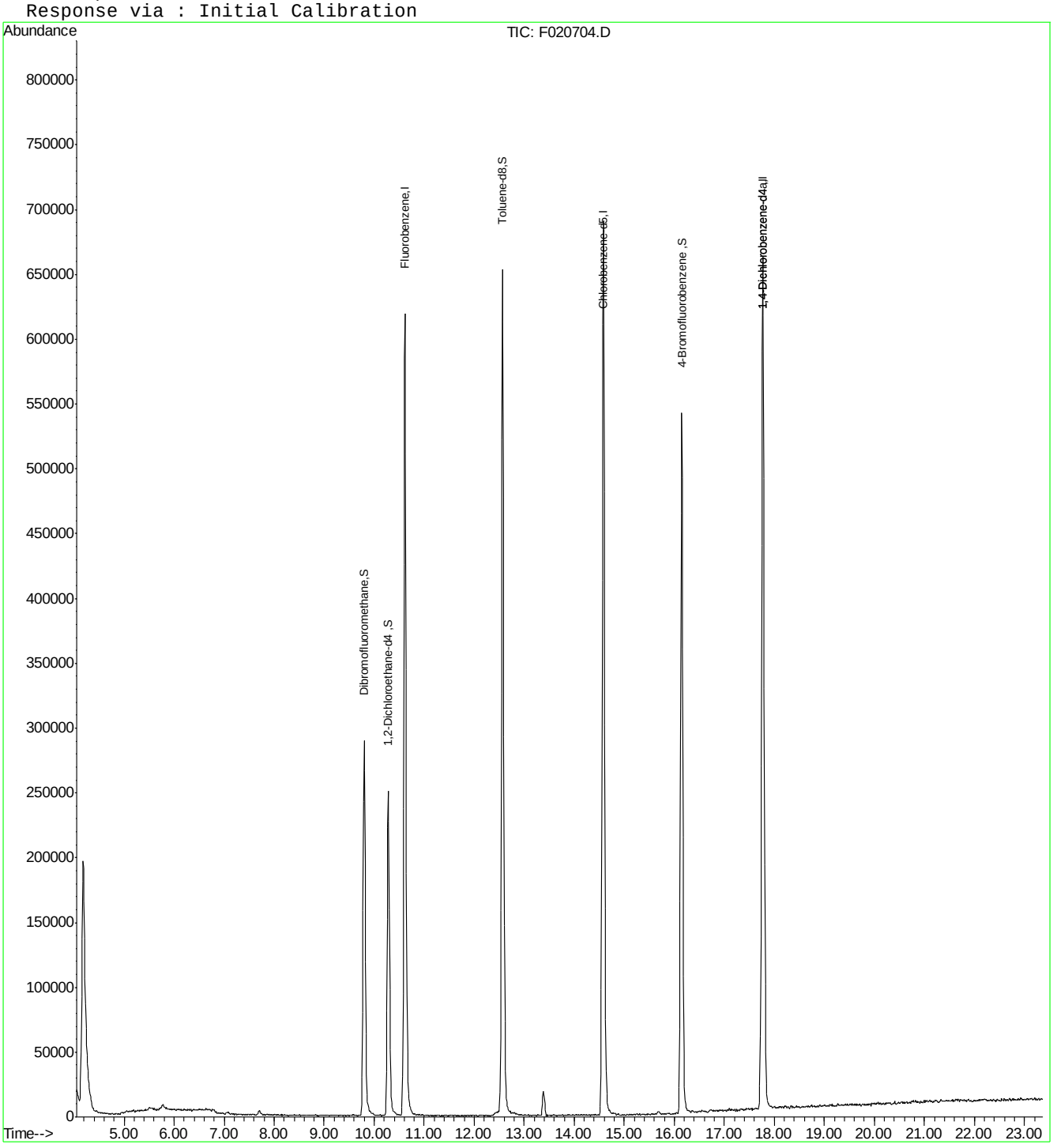
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020704.D Vial: 6
Acq On : 13 Oct 2009 11:41 am Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:03 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020727.D Vial: 29
Acq On : 13 Oct 2009 11:14 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:16 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1046924	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	833287	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.79	152	481378	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.79	152	481378	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	297792	47.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 95.94%			
45) 1,2-Dichloroethane-d4	10.30	65	346846	43.75	ug/L	0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 87.50%			
62) Toluene-d8	12.58	98	850555	44.22	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.44%			
83) 4-Bromofluorobenzene	16.15	95	389477	42.86	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 85.72%			

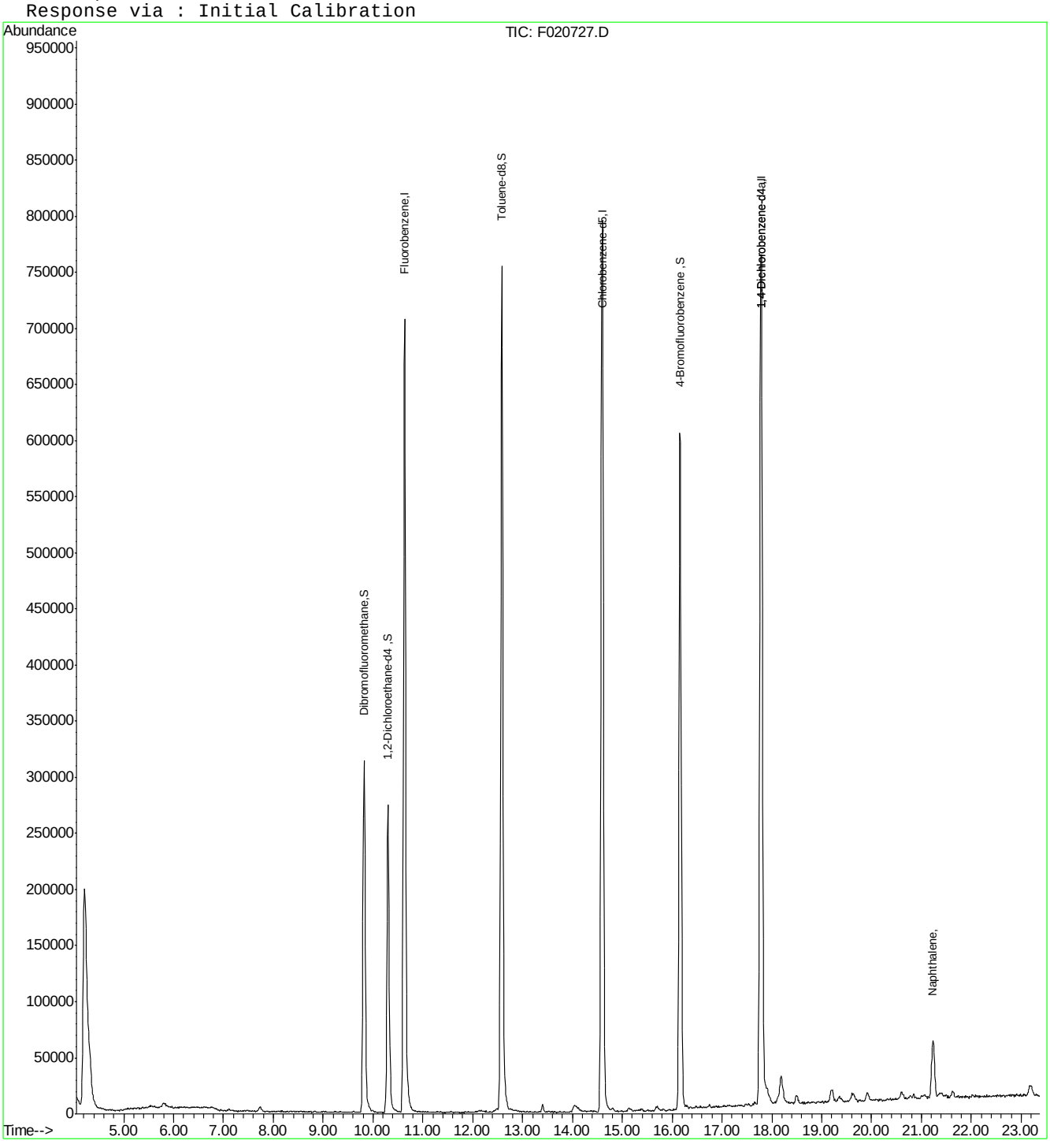
Target Compounds						Qvalue
105) Naphthalene	21.23	128	101408	10.70	ug/L	98

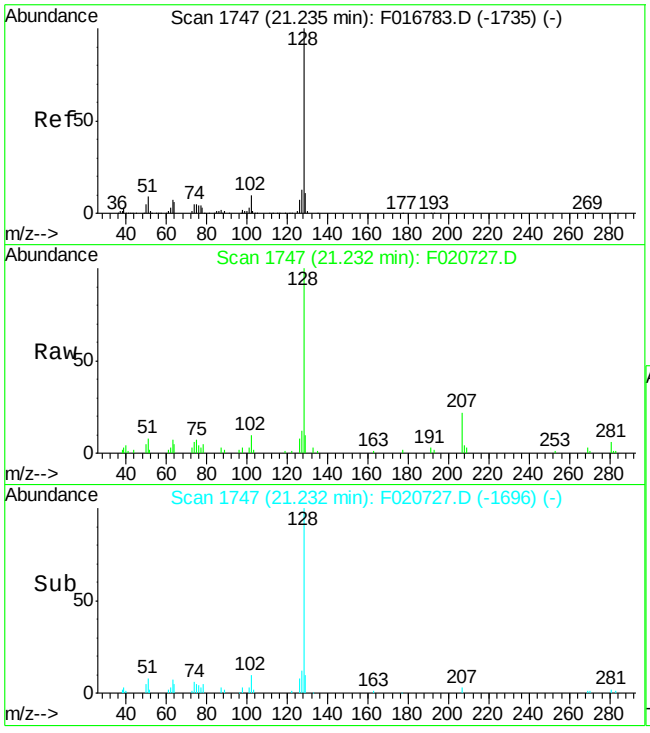
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020727.D VF3547AP9G.M Wed Oct 14 14:48:49 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020727.D Vial: 29
Acq On : 13 Oct 2009 11:14 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:31 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration

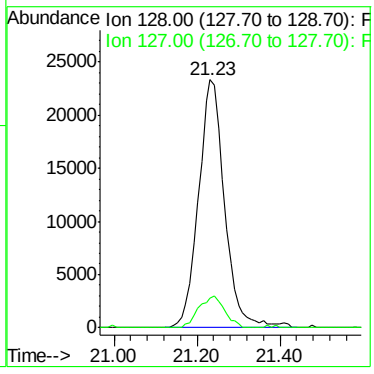




#105
Naphthalene
Concen: 10.70 ug/L
RT: 21.23 min Scan# 1747
Delta R.T. -0.00 min
Lab File: F020727.D
Acq: 13 Oct 2009 11:14 pm

Tgt Ion:128 Resp: 101408

Ion	Ratio	Lower	Upper
128	100		
127	11.8	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020751.D Vial: 6
Acq On : 14 Oct 2009 12:29 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 08:52:13 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1033332	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	822597	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.80	152	460325	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	460325	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	310290	50.65	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 101.30%			
45) 1,2-Dichloroethane-d4	10.31	65	383865	49.31	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.62%			
62) Toluene-d8	12.60	98	895320	46.99	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 93.98%			
83) 4-Bromofluorobenzene	16.17	95	388374	44.67	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.34%			

Target Compounds Qvalue

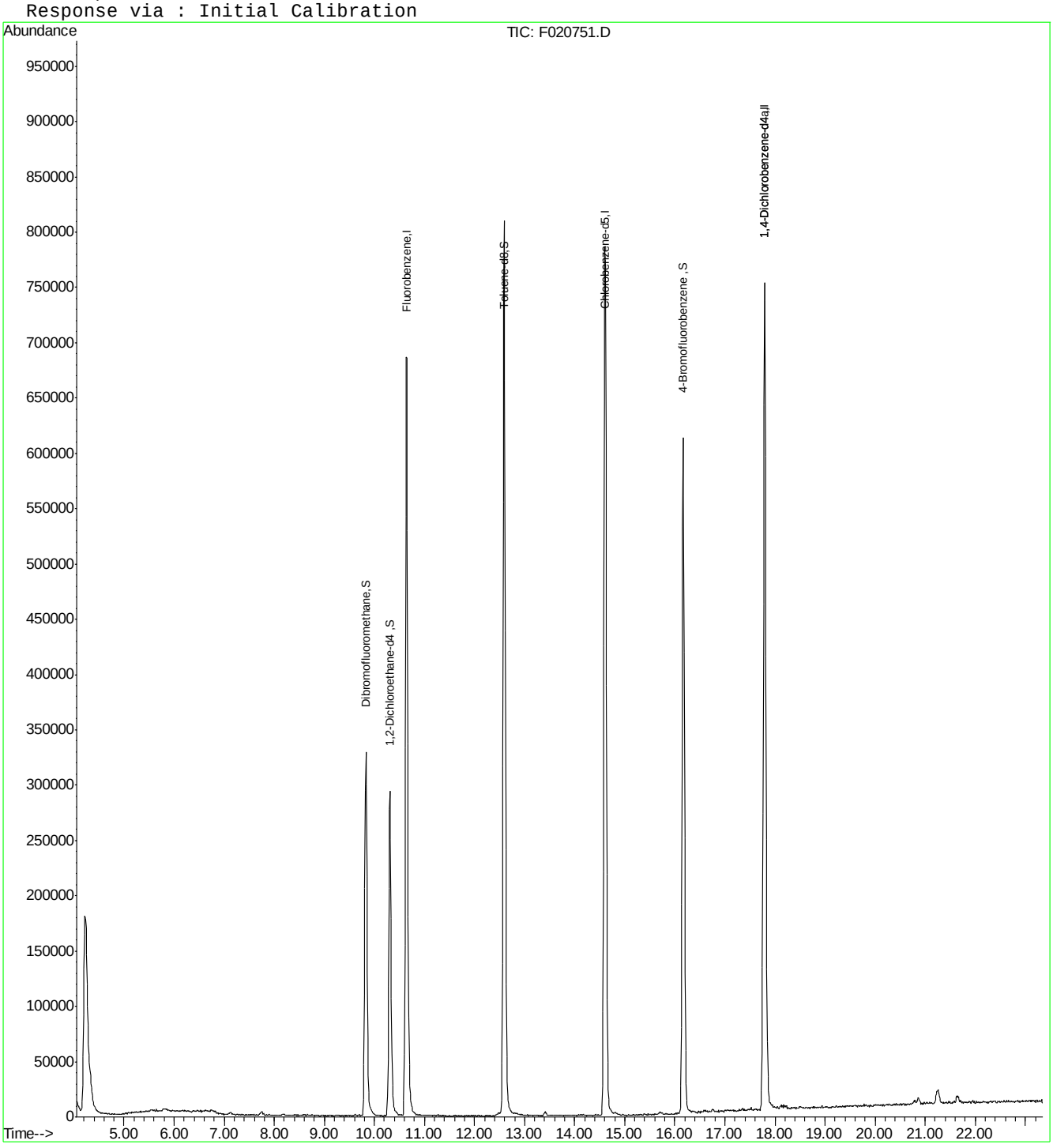
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020751.D VF3547AP9G.M Thu Oct 15 09:02:52 2009

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020751.D Vial: 6
Acq On : 14 Oct 2009 12:29 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 8:53 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003988.D
Acq On : 14 Oct 2009 12:56 pm
Operator : AnjanaP
Sample : mb
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 10:15:57 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1114379	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	919773	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	423247	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	423247	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	309170	54.50	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 109.00%			
39) 1,2-Dichloroethane-d4	10.123	65	330495	53.83	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 107.66%			
54) Toluene-d8	12.008	98	884800	46.62	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 93.24%			
74) 4-Bromofluorobenzene	14.746	95	270257	41.17	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 82.34%			

Target Compounds Qvalue

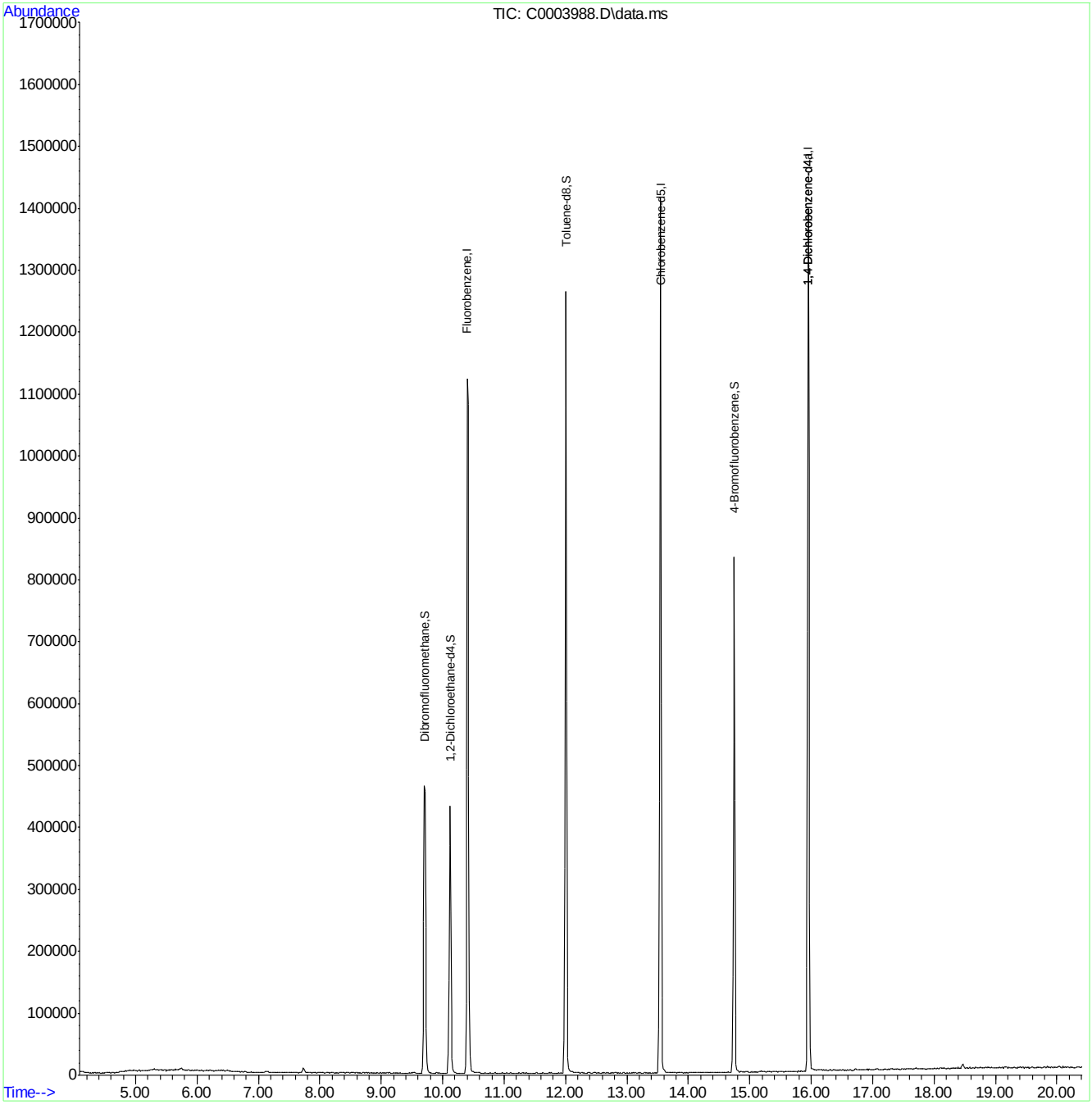
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003988.D
Acq On : 14 Oct 2009 12:56 pm
Operator : AnjanaP
Sample : mb
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 10:15:57 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020779.D Vial: 7
Acq On : 15 Oct 2009 12:21 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 16:28:46 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.65	96	1149860	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.63	117	803928	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.81	152	438062	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.81	152	438062	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	307679	45.13	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 90.26%			
45) 1,2-Dichloroethane-d4	10.32	65	374868	43.02	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 86.04%			
62) Toluene-d8	12.61	98	879074	47.20	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.40%			
83) 4-Bromofluorobenzene	16.18	95	378629	45.74	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.48%			

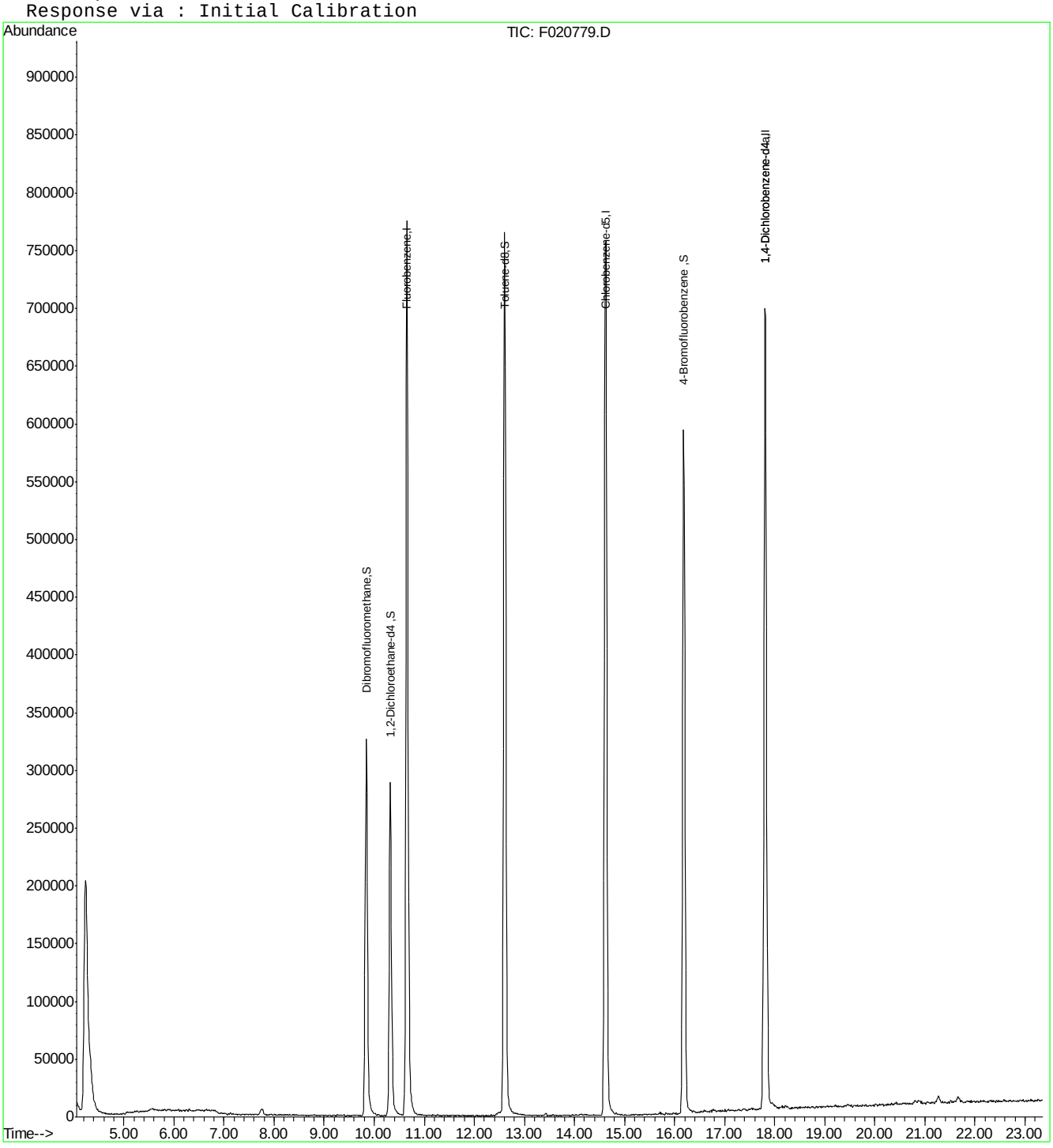
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020779.D Vial: 7
Acq On : 15 Oct 2009 12:21 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 16:29 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/14/09 16:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020701.D Vial: 3
Acq On : 13 Oct 2009 10:07 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:31:32 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	902378	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	712599	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	417986	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	417986	50.00	ug/kg	0.00

System Monitoring Compounds						
39) Dibromofluoromethane	9.80	113	264049	49.35	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.70%			
45) 1,2-Dichloroethane-d4	10.29	65	340426	50.10	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.20%			
62) Toluene-d8	12.57	98	735727	43.91	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.82%			
83) 4-Bromofluorobenzene	16.15	95	355857	45.07	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.14%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.61	85	106852	21.08	ug/L	99
3) Chloromethane	4.96	50	103100	22.03	ug/L	97
4) Vinyl Chloride	5.20	62	103455	26.80	ug/L	98
5) Bromomethane	5.79	94	97274	33.32	ug/L	94
6) Chloroethane	5.94	64	66344	27.53	ug/L	99
7) Trichlorofluoromethane	6.31	101	204345	26.09	ug/L	97
8) Acrolein	8.15	56	52969	135.42	ug/L	99
9) Ethyl Ether	6.60	59	90412	27.81	ug/L	96
10) 1,1-Dichloroethene	7.04	61	192793	30.49	ug/L	99
11) Freon 113	6.93	101	127817	31.44	ug/L	98
12) Acetone	7.09	43	177699	148.13	ug/L	96
13) Iodomethane	7.34	142	228062	32.54	ug/L	97
14) Methyl acetate	7.44	43	346512	134.02	ug/L	95
15) Allyl Chloride	7.49	41	133437	28.13	uL/L	95
16) Carbon Disulfide	7.48	76	344735	27.67	ug/L	96
17) Acetonitrile	7.49	41	59587m	71.24	uL/L	
18) Methylene Chloride	7.71	49	152018	28.46	ug/L	97
19) Tert Butyl Alcohol	7.65	59	110573	293.68	ug/L	98
20) trans-1,2-Dichloroethene	7.98	61	174897	29.67	ug/L	96
21) Acrylonitrile	8.03	53	135593	128.50	ug/L	96
22) Methyl Tert Butyl Ether	7.87	73	381760	28.59	ug/L	98
23) Hexane	8.15	57	85632	26.29	ug/L	94
24) 1,1-Dichloroethane	8.54	63	211378	28.39	ug/L	97
25) Vinyl acetate	8.46	43	1278127	136.72	ug/L	100
26) Di-isopropyl ether	8.38	45	385972	26.49	ug/L	100
27) Chloroprene	8.61	53	198276	28.72	uL/L	98
28) Ethyl tert-butyl ether	8.82	59	404725	28.27	ug/L	99
29) 2,2-Dichloropropane	9.23	77	163259	26.56	ug/L	97
30) cis-1,2-Dichloroethene	9.26	96	140061	27.33	ug/L	92
31) Ethyl Acetate	9.14	43	261685	51.88	uL/L	98
32) 2-Butanone	9.14	43	470800m	93.33	ug/L	
33) Propionitrile	9.39	54	99074	256.76	uL/L	97
34) Methacrylonitrile	9.54	41	623630	184.00	uL/L	92
35) Bromochloromethane	9.58	128	75417	29.73	ug/L	92

(#) = qualifier out of range (m) = manual integration
F020701.D VF3547AP9G.M Wed Oct 14 13:32:46 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020701.D Vial: 3
Acq On : 13 Oct 2009 10:07 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:31:32 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.59	83	276749	28.04 ug/L		99
37)	Tetrahydrofuran	9.15	42	23774	9.55 ug/L		88
38)	1,1,1-Trichloroethane	9.85	97	237703	27.94 ug/L		99
40)	Cyclohexane	9.87	56	147541	28.82 ug/L		95
41)	Isobutyl Alcohol	9.95	43	62023	983.29 uL/L		89
42)	n-Butyl Alcohol	10.75	56	38482	1014.58 ug/L		90
43)	1,1-Dichloropropene	10.02	75	185781	29.31 ug/L		93
44)	Carbon Tetrachloride	10.03	117	218678	29.50 ug/L		97
46)	Benzene	10.31	78	424294	28.66 ug/L		98
47)	1,2-Dichloroethane	10.38	62	235482	27.41 ug/L		98
48)	tert-amyl methyl ether	10.25	73	384222	28.49 ug/L		99
49)	Trichloroethene	11.05	95	145562	28.81 ug/L		97
50)	Methylcyclohexane	11.25	83	132341	27.74 ug/L		96
51)	Methyl Methacrylate	11.31	41	97790	24.73 uL/L		98
52)	1,2-Dichloropropane	11.41	63	102007	28.00 ug/L		95
53)	Dibromomethane	11.60	93	99203	28.27 ug/L		98
54)	1,4-Dioxane	11.49	88	22282	609.08 ug/L		98
55)	Bromodichloromethane	11.71	83	219221	25.74 ug/L		99
56)	2-Nitropropane	12.04	41	249596	138.85 ug/L		99
57)	2-Chloroethyl vinyl ether	11.96	63	325353	173.47 ug/L		98
58)	1-Bromo-2-Chloroethane	12.19	63	108379	20.36 uL/L		100
59)	4-Methyl-2-pentanone	12.33	43	485041	137.76 ug/L		98
60)	cis-1,3-Dichloropropene	12.25	75	217256	27.30 ug/L		96
63)	Toluene	12.67	91	491350	25.71 ug/L		100
64)	Ethyl Methacrylate	12.84	69	136379	22.38 uL/:		95
65)	trans-1,3-Dichloropropene	12.96	75	221876	26.76 ug/L		98
66)	1,1,2-Trichloroethane	13.24	83	89398	24.99 ug/L		96
67)	Tetrachloroethene	13.39	166	175510	29.21 ug/L		98
68)	2-hexanone	13.40	43	345082	125.88 ug/L		99
69)	1,3-Dichloropropane	13.49	76	200415	24.91 ug/L		94
70)	Dibromochloromethane	13.81	129	156260	25.34 ug/L		99
71)	1,2-Dibromoethane	14.04	107	129820	25.83 ug/L		98
72)	1-Chlorohexane	14.38	91	172461	25.74 ug/L		95
73)	Chlorobenzene	14.63	112	327339	25.81 ug/L		93
74)	1,1,1,2-Tetrachloroethane	14.70	131	138053	25.17 ug/L		97
75)	Ethylbenzene	14.64	91	595111	25.01 ug/L		99
76)	m,p-Xylene	14.79	91	937239	51.18 ug/L		97
77)	o-Xylene	15.37	91	488453	25.64 ug/L		97
78)	Styrene	15.40	104	330037	24.36 ug/L		94
79)	Bromoform	15.81	173	111441	25.39 ug/L		99
81)	Isopropylbenzene	15.81	105	476097	25.16 ug/L		100
82)	Cyclohexanone	16.13	55	66245	413.58 ug/L	#	72
84)	Bromobenzene	16.42	156	166503	24.61 ug/L		94
85)	1,1,2,2-Tetrachloroethane	16.29	83	122333	23.65 ug/L		100
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	45836	23.93 ug/L	#	97
87)	1,2,3-Trichloropropane	16.42	110	42417	21.51 ug/L		90
88)	n-Propylbenzene	16.35	91	610835	23.54 ug/L		99
89)	2-Chlorotoluene	16.60	91	454144	23.55 ug/L		99
90)	4-Chlorotoluene	16.74	91	420319	23.34 ug/L		97

(#) = qualifier out of range (m) = manual integration
F020701.D VF3547AP9G.M Wed Oct 14 13:32:46 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020701.D Vial: 3
Acq On : 13 Oct 2009 10:07 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:31:32 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

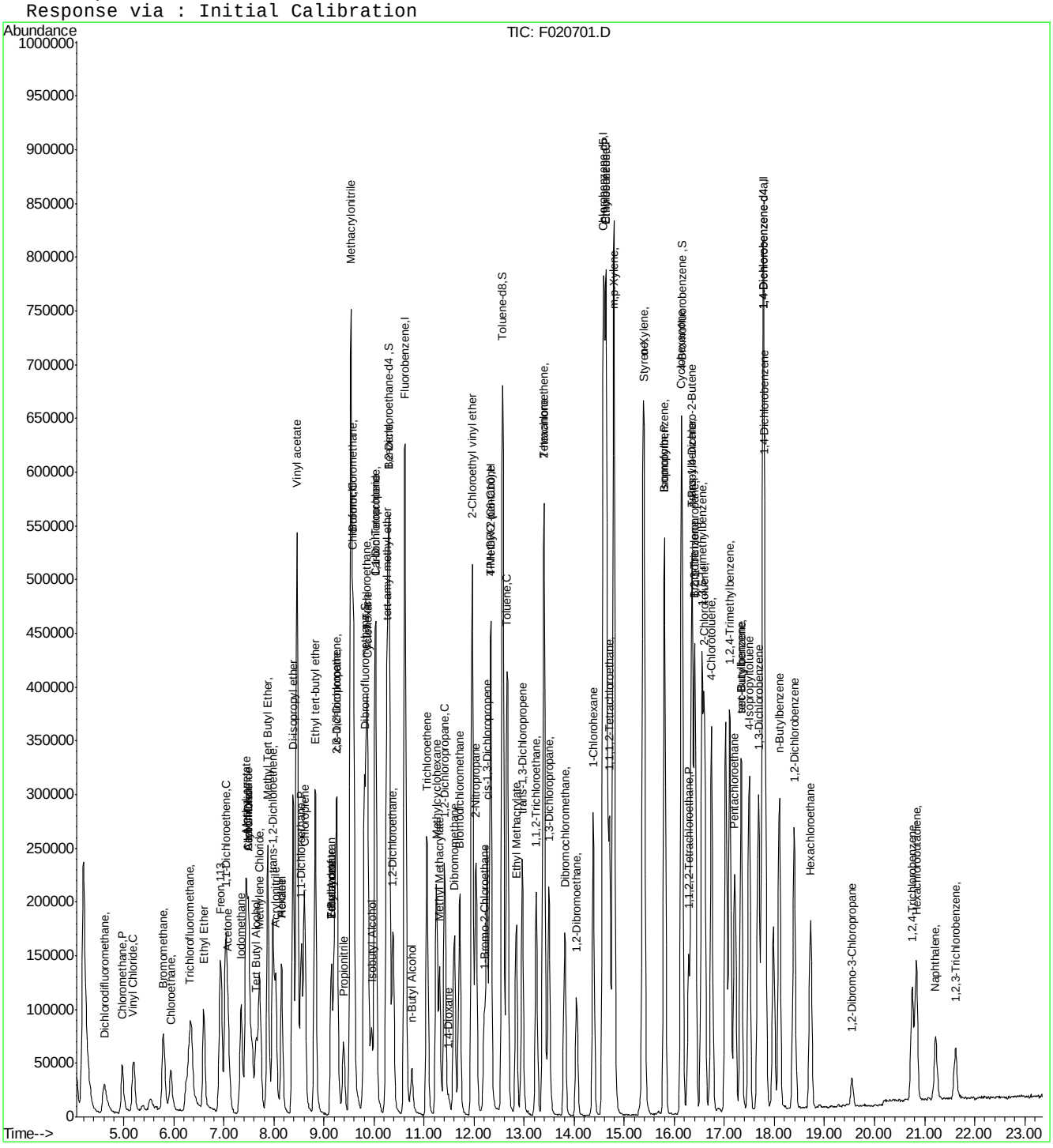
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.55	105	402228	23.43	ug/L	99
92)	Pentachloroethane	17.21	167	92027	21.09	uL/L	97
93)	sec-Butylbenzene	17.33	105	438547	23.17	ug/L	100
94)	1,3-Dichlorobenzene	17.69	146	255912	24.22	ug/L	97
95)	4-Isopropyltoluene	17.50	119	356432	23.16	ug/L	99
96)	1,4-Dichlorobenzene	17.81	146	268660	24.68	ug/L	99
97)	tert-Butylbenzene	17.33	91	79590	24.00	ug/L	96
98)	n-Butylbenzene	18.10	91	328150	22.02	ug/L	99
99)	1,2-Dichlorobenzene	18.39	146	235425	23.74	ug/L	96
100)	1,2,4-Trimethylbenzene	17.10	105	421084	22.95	ug/L	97
101)	Hexachloroethane	18.73	119	77486	21.25	uL/L	94
102)	1,2-Dibromo-3-Chloropropan	19.55	75	15342	15.89	ug/L	88
103)	1,2,4-Trichlorobenzene	20.76	180	81213	15.09	ug/L	97
104)	Hexachlorobutadiene	20.83	225	58025	24.54	ug/L	95
105)	Naphthalene	21.23	128	115638	14.71	ug/L	99
106)	1,2,3-Trichlorobenzene	21.61	180	41189	13.39	ug/L	93
108)	TPH-GRO (C6-C10)	12.34	TIC	48549126m	1894.45	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020701.D VF3547AP9G.M Wed Oct 14 13:32:46 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020701.D Vial: 3
Acq On : 13 Oct 2009 10:07 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:32 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/14/09 16:36

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020725.D Vial: 27
Acq On : 13 Oct 2009 10:13 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1198533	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	908720	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	519221	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	519221	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	319721	44.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 89.98%			
45) 1,2-Dichloroethane-d4	10.30	65	371170	40.76	ug/L	0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 81.52%			
62) Toluene-d8	12.58	98	942484	44.90	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.80%			
83) 4-Bromofluorobenzene	16.16	95	423460	43.20	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.40%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.63	85	107251	15.93	ug/L	91
3) Chloromethane	5.00	50	129319	20.73	ug/L	98
4) Vinyl Chloride	5.21	62	134090	26.12	ug/L	97
5) Bromomethane	5.82	94	101005	25.62	ug/L	99
6) Chloroethane	5.97	64	80265	25.08	ug/L	92
7) Trichlorofluoromethane	6.33	101	196094	18.85	ug/L	96
8) Acrolein	8.17	56	59557	114.64	ug/L	90
9) Ethyl Ether	6.62	59	96923	22.45	ug/L	97
10) 1,1-Dichloroethene	7.06	61	206542	24.59	ug/L	94
11) Freon 113	6.95	101	140243	25.97	ug/L	96
12) Acetone	7.11	43	176644	108.11	ug/L	89
13) Iodomethane	7.38	142	250678	26.92	ug/L	92
14) Methyl acetate	7.47	43	402050	117.34	ug/L	95
15) Allyl Chloride	7.52	41	144991	22.50	uL/L	88
16) Carbon Disulfide	7.51	76	411118	24.85	ug/L	90
17) Acetonitrile	7.52	41	56315m	47.92	uL/L	
18) Methylene Chloride	7.74	49	173158	24.32	ug/L	95
19) Tert Butyl Alcohol	7.66	59	113338	226.64	ug/L	93
20) trans-1,2-Dichloroethene	8.00	61	191603	24.48	ug/L	91
21) Acrylonitrile	8.06	53	169425	120.89	ug/L	96
22) Methyl Tert Butyl Ether	7.90	73	410564	23.15	ug/L	97
23) Hexane	8.17	57	99530	23.01	ug/L	89
24) 1,1-Dichloroethane	8.57	63	233815	23.64	ug/L	95
25) Vinyl acetate	8.48	43	1396057	112.44	ug/L	96
26) Di-isopropyl ether	8.40	45	454782	23.50	ug/L	94
27) Chloroprene	8.63	53	245138	26.74	uL/L	90
28) Ethyl tert-butyl ether	8.84	59	443501	23.33	ug/L	100
29) 2,2-Dichloropropane	9.26	77	141385	17.32	ug/L	94
30) cis-1,2-Dichloroethene	9.28	96	160257	23.55	ug/L	92
31) Ethyl Acetate	9.16	43	279453	41.71	uL/L	97
32) 2-Butanone	9.16	43	528975m	78.95	ug/L	
33) Propionitrile	9.40	54	138994	271.20	uL/L	97
34) Methacrylonitrile	9.55	41	808887	179.68	uL/L	89
35) Bromochloromethane	9.60	128	82831	24.59	ug/L	93

(#) = qualifier out of range (m) = manual integration
F020725.D VF3547AP9G.M Wed Oct 14 14:48:13 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020725.D Vial: 27
Acq On : 13 Oct 2009 10:13 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Chloroform	9.61	83	286136	21.83 ug/L	98
37)	Tetrahydrofuran	9.17	42	22464	6.35 ug/L	85
38)	1,1,1-Trichloroethane	9.87	97	237805	21.05 ug/L	97
40)	Cyclohexane	9.89	56	175517	25.82 ug/L	93
41)	Isobutyl Alcohol	9.97	43	75739	906.01 uL/L	82
42)	n-Butyl Alcohol	10.77	56	50562	1004.13 ug/L	78
43)	1,1-Dichloropropene	10.04	75	201508	23.94 ug/L	92
44)	Carbon Tetrachloride	10.04	117	210646	21.39 ug/L	99
46)	Benzene	10.32	78	506709	25.77 ug/L	98
47)	1,2-Dichloroethane	10.40	62	226902	19.88 ug/L	95
48)	tert-amyl methyl ether	10.26	73	421943	23.56 ug/L	95
49)	Trichloroethene	11.08	95	160890	23.78 ug/L	96
50)	Methylcyclohexane	11.26	83	151738	23.95 ug/L	97
51)	Methyl Methacrylate	11.32	41	127727	24.32 uL/L	92
52)	1,2-Dichloropropane	11.42	63	118529	24.49 ug/L	85
53)	Dibromomethane	11.62	93	105596	22.66 ug/L	95
54)	1,4-Dioxane	11.50	88	24358	501.30 ug/L	92
55)	Bromodichloromethane	11.73	83	225664	19.95 ug/L	99
56)	2-Nitropropane	12.05	41	229134	95.97 ug/L	98
57)	2-Chloroethyl vinyl ether	11.97	63	397698	159.65 ug/L	96
58)	1-Bromo-2-Chloroethane	12.22	63	131905	18.66 uL/L	99
59)	4-Methyl-2-pentanone	12.34	43	537549	114.95 ug/L	96
60)	cis-1,3-Dichloropropene	12.27	75	225563	21.34 ug/L	89
63)	Toluene	12.67	91	567022	23.27 ug/L	98
64)	Ethyl Methacrylate	12.85	69	174232	22.42 uL/:	98
65)	trans-1,3-Dichloropropene	12.98	75	206251	19.51 ug/L	94
66)	1,1,2-Trichloroethane	13.25	83	98115	21.50 ug/L	91
67)	Tetrachloroethene	13.40	166	188374	24.59 ug/L	98
68)	2-hexanone	13.41	43	364206	104.18 ug/L	94
69)	1,3-Dichloropropane	13.51	76	218332	21.28 ug/L	88
70)	Dibromochloromethane	13.82	129	156303	19.87 ug/L	99
71)	1,2-Dibromoethane	14.06	107	141691	22.11 ug/L	100
72)	1-Chlorohexane	14.39	91	190061	22.24 ug/L	87
73)	Chlorobenzene	14.64	112	364009	22.51 ug/L	91
74)	1,1,1,2-Tetrachloroethane	14.72	131	145392	20.79 ug/L	96
75)	Ethylbenzene	14.66	91	654324	21.56 ug/L	98
76)	m,p-Xylene	14.80	91	1010829	43.28 ug/L	95
77)	o-Xylene	15.39	91	528274	21.75 ug/L	94
78)	Styrene	15.41	104	377320	21.84 ug/L	93
79)	Bromoform	15.81	173	103863	18.56 ug/L	97
81)	Isopropylbenzene	15.82	105	512214	21.79 ug/L	95
82)	Cyclohexanone	16.16	55	32604	165.57 ug/L #	77
84)	Bromobenzene	16.42	156	179863	21.40 ug/L	100
85)	1,1,2,2-Tetrachloroethane	16.29	83	133970	20.85 ug/L	98
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	13318	5.60 ug/L #	40
87)	1,2,3-Trichloropropane	16.42	110	45383	18.53 ug/L	89
88)	n-Propylbenzene	16.36	91	652004	20.23 ug/L	98
89)	2-Chlorotoluene	16.61	91	476860	19.91 ug/L	98
90)	4-Chlorotoluene	16.76	91	449724	20.10 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020725.D Vial: 27
Acq On : 13 Oct 2009 10:13 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

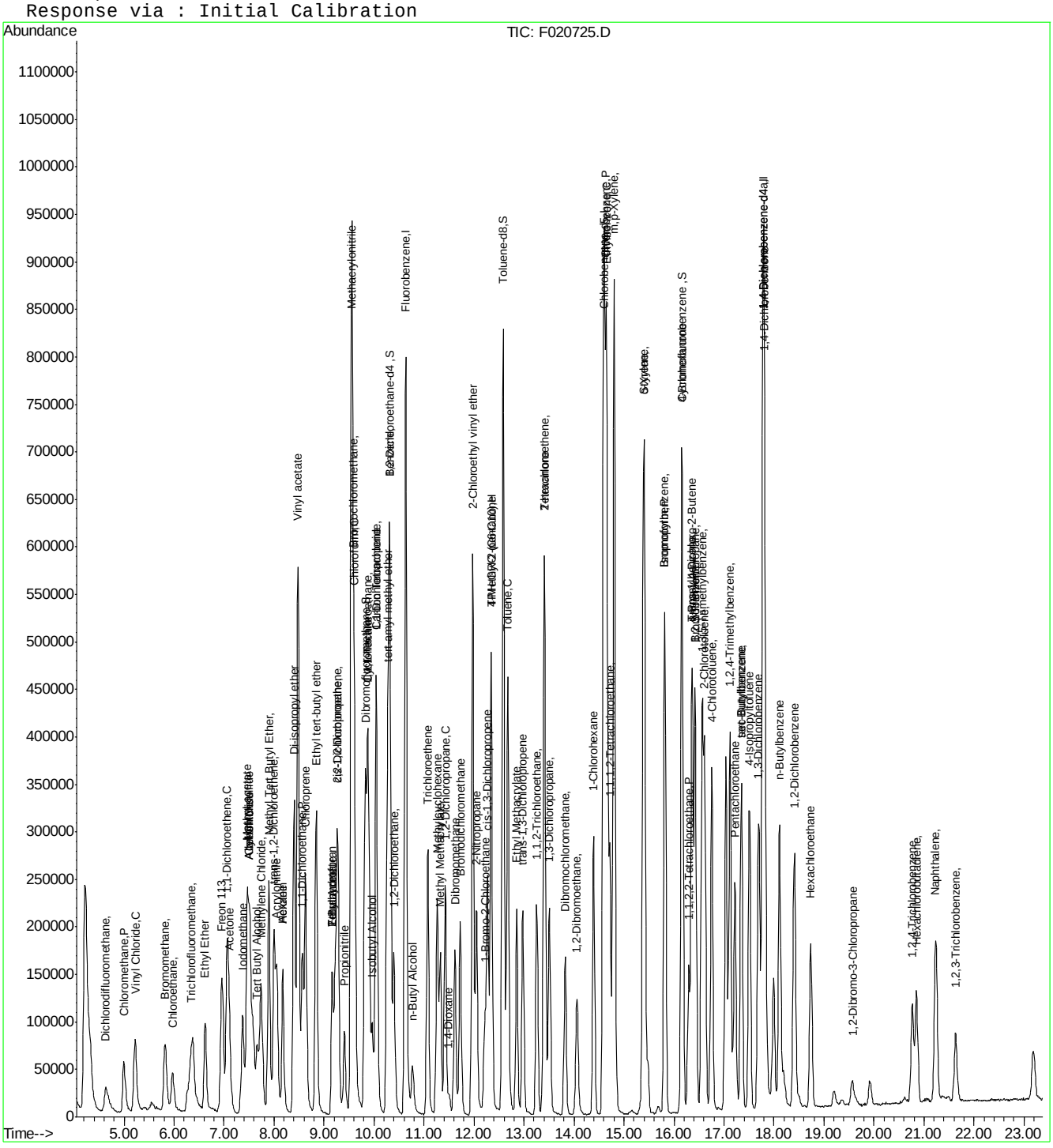
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.56	105	433038	20.31	ug/L	100
92)	Pentachloroethane	17.22	167	97902	18.06	uL/L	96
93)	sec-Butylbenzene	17.35	105	470877	20.02	ug/L	100
94)	1,3-Dichlorobenzene	17.70	146	272186	20.74	ug/L	95
95)	4-Isopropyltoluene	17.51	119	377541	19.75	ug/L	100
96)	1,4-Dichlorobenzene	17.82	146	279903	20.70	ug/L	97
97)	tert-Butylbenzene	17.35	91	79027	18.99	ug/L	93
98)	n-Butylbenzene	18.11	91	349412	18.88	ug/L	98
99)	1,2-Dichlorobenzene	18.41	146	248429	20.17	ug/L	96
100)	1,2,4-Trimethylbenzene	17.12	105	451865	19.83	ug/L	100
101)	Hexachloroethane	18.73	119	79709	17.59	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.56	75	15052	11.84	ug/L	84
103)	1,2,4-Trichlorobenzene	20.77	180	83134	12.06	ug/L	97
104)	Hexachlorobutadiene	20.85	225	52262	16.74	ug/L	95
105)	Naphthalene	21.24	128	349505	38.77	ug/L	99
106)	1,2,3-Trichlorobenzene	21.64	180	60280	16.27	ug/L	98
108)	TPH-GRO (C6-C10)	12.34	TIC	49418537m	1691.62	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020725.D Vial: 27
Acq On : 13 Oct 2009 10:13 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:29 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 18:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020749.D Vial: 4
Acq On : 14 Oct 2009 11:27 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 11:50:52 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1027632	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	822607	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	479799	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	479799	50.00	ug/kg	0.01

System Monitoring Compounds						
39) Dibromofluoromethane	9.82	113	307910	50.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 101.08%			
45) 1,2-Dichloroethane-d4	10.30	65	388671	50.24	ug/L	0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.48%			
62) Toluene-d8	12.59	98	890453	45.97	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.94%			
83) 4-Bromofluorobenzene	16.16	95	391815	43.26	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.52%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.64	85	98027	16.99	ug/L	95
3) Chloromethane	5.00	50	101438	18.85	ug/L	100
4) Vinyl Chloride	5.22	62	98110	22.11	ug/L	93
5) Bromomethane	5.83	94	81532	24.00	ug/L	93
6) Chloroethane	5.96	64	60303	21.98	ug/L	95
7) Trichlorofluoromethane	6.33	101	161727	18.13	ug/L	94
8) Acrolein	8.18	56	59386	133.32	ug/L	98
9) Ethyl Ether	6.62	59	100762	27.22	ug/L	97
10) 1,1-Dichloroethene	7.07	61	210347	29.21	ug/L	96
11) Freon 113	6.96	101	140300	30.31	ug/L	94
12) Acetone	7.11	43	176600	127.88	ug/L	94
13) Iodomethane	7.37	142	252941	31.69	ug/L	95
14) Methyl acetate	7.46	43	382499	129.97	ug/L	98
15) Allyl Chloride	7.52	41	176494	33.21	uL/L	90
16) Carbon Disulfide	7.51	76	404924	28.54	ug/L	90
17) Acetonitrile	7.52	41	74060m	78.39	uL/L	
18) Methylene Chloride	7.74	49	165539	27.19	ug/L	98
19) Tert Butyl Alcohol	7.67	59	113109	263.80	ug/L	94
20) trans-1,2-Dichloroethene	8.00	61	196014	29.20	ug/L	93
21) Acrylonitrile	8.06	53	155763	129.62	ug/L	97
22) Methyl Tert Butyl Ether	7.90	73	419290	27.57	ug/L	98
23) Hexane	8.18	57	96158	25.93	ug/L	90
24) 1,1-Dichloroethane	8.57	63	235228	27.74	ug/L	96
25) Vinyl acetate	8.48	43	1374925	129.15	ug/L	97
26) Di-isopropyl ether	8.40	45	439160	26.47	ug/L	97
27) Chloroprene	8.63	53	250233	31.83	uL/L	92
28) Ethyl tert-butyl ether	8.85	59	447404	27.44	ug/L	99
29) 2,2-Dichloropropane	9.25	77	169867	24.26	ug/L	95
30) cis-1,2-Dichloroethene	9.28	96	162094	27.78	ug/L	90
31) Ethyl Acetate	9.16	43	275018	47.88	uL/L	98
32) 2-Butanone	9.16	43	515430m	89.73	ug/L	
33) Propionitrile	9.41	54	126659	288.23	uL/L	98
34) Methacrylonitrile	9.56	41	774029	200.54	uL/L	91
35) Bromochloromethane	9.61	128	83855	29.03	ug/L	94

(#) = qualifier out of range (m) = manual integration
F020749.D VF3547AP9G.M Thu Oct 15 09:02:25 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020749.D Vial: 4
Acq On : 14 Oct 2009 11:27 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 11:50:52 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	303989	27.05	ug/L		96
37)	Tetrahydrofuran	9.16	42	23007	7.89	ug/L		95
38)	1,1,1-Trichloroethane	9.87	97	256967	26.53	ug/L		99
40)	Cyclohexane	9.89	56	170538	29.26	ug/L		95
41)	Isobutyl Alcohol	9.97	43	73222	1018.44	uL/L		80
42)	n-Butyl Alcohol	10.78	56	45287	1047.05	ug/L		85
43)	1,1-Dichloropropene	10.05	75	207195	28.71	ug/L		92
44)	Carbon Tetrachloride	10.05	117	227998	27.01	ug/L		96
46)	Benzene	10.32	78	486937	28.88	ug/L		99
47)	1,2-Dichloroethane	10.40	62	244956	25.04	ug/L		98
48)	tert-amyl methyl ether	10.26	73	425419	27.70	ug/L		96
49)	Trichloroethene	11.08	95	161865	28.10	ug/L		98
50)	Methylcyclohexane	11.27	83	151030	27.80	ug/L		95
51)	Methyl Methacrylate	11.33	41	115037	25.54	uL/L		95
52)	1,2-Dichloropropane	11.43	63	113180	27.28	ug/L		92
53)	Dibromomethane	11.62	93	105978	26.52	ug/L		96
54)	1,4-Dioxane	11.50	88	22945	550.75	ug/L		96
55)	Bromodichloromethane	11.73	83	235396	24.27	ug/L		98
56)	2-Nitropropane	12.06	41	246565	120.44	ug/L		95
57)	2-Chloroethyl vinyl ether	11.98	63	369333	172.92	ug/L		98
58)	1-Bromo-2-Chloroethane	12.22	63	126826	20.93	uL/L		98
59)	4-Methyl-2-pentanone	12.35	43	508942	126.93	ug/L		98
60)	cis-1,3-Dichloropropene	12.27	75	239772	26.46	ug/L		93
63)	Toluene	12.68	91	562007	25.47	ug/L		99
64)	Ethyl Methacrylate	12.85	69	170932	24.30	uL/:		96
65)	trans-1,3-Dichloropropene	12.98	75	230518	24.09	ug/L		98
66)	1,1,2-Trichloroethane	13.26	83	99973	24.21	ug/L		93
67)	Tetrachloroethene	13.40	166	178246	25.70	ug/L		99
68)	2-hexanone	13.41	43	357054	112.83	ug/L		96
69)	1,3-Dichloropropane	13.51	76	220083	23.70	ug/L		94
70)	Dibromochloromethane	13.83	129	166645	23.41	ug/L		99
71)	1,2-Dibromoethane	14.06	107	140227	24.17	ug/L		97
72)	1-Chlorohexane	14.40	91	195137	25.23	ug/L		90
73)	Chlorobenzene	14.64	112	364757	24.92	ug/L		93
74)	1,1,1,2-Tetrachloroethane	14.72	131	151996	24.01	ug/L		97
75)	Ethylbenzene	14.66	91	665163	24.21	ug/L		99
76)	m,p-Xylene	14.81	91	1035529	48.98	ug/L		96
77)	o-Xylene	15.39	91	545195	24.79	ug/L		97
78)	Styrene	15.42	104	380183	24.31	ug/L		93
79)	Bromoform	15.81	173	114912	22.68	ug/L		99
81)	Isopropylbenzene	15.82	105	532985	24.54	ug/L		98
82)	Cyclohexanone	16.16	55	43544	238.04	ug/L		97
84)	Bromobenzene	16.43	156	185717	23.91	ug/L		98
85)	1,1,2,2-Tetrachloroethane	16.30	83	133533	22.49	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	33869	15.41	ug/L	#	85
87)	1,2,3-Trichloropropane	16.42	110	45843	20.25	ug/L		92
88)	n-Propylbenzene	16.37	91	681158	22.87	ug/L		99
89)	2-Chlorotoluene	16.61	91	499092	22.55	ug/L		98
90)	4-Chlorotoluene	16.76	91	466922	22.58	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020749.D Vial: 4
Acq On : 14 Oct 2009 11:27 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 11:50:52 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	450020	22.84	ug/L	99
92)	Pentachloroethane	17.23	167	110390	22.04	uL/L	100
93)	sec-Butylbenzene	17.36	105	496180	22.83	ug/L	99
94)	1,3-Dichlorobenzene	17.70	146	285211	23.51	ug/L	97
95)	4-Isopropyltoluene	17.52	119	392314	22.21	ug/L	99
96)	1,4-Dichlorobenzene	17.83	146	297834	23.84	ug/L	99
97)	tert-Butylbenzene	17.35	91	85273	22.34	ug/L	91
98)	n-Butylbenzene	18.12	91	363134	21.23	ug/L	99
99)	1,2-Dichlorobenzene	18.41	146	264032	23.20	ug/L	97
100)	1,2,4-Trimethylbenzene	17.13	105	471365	22.38	ug/L	97
101)	Hexachloroethane	18.74	119	93235	22.27	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.56	75	18003	16.32	ug/L	88
103)	1,2,4-Trichlorobenzene	20.77	180	88259	14.17	ug/L	99
104)	Hexachlorobutadiene	20.85	225	58169	20.94	ug/L	97
105)	Naphthalene	21.25	128	186250	21.47	ug/L	99
106)	1,2,3-Trichlorobenzene	21.64	180	58124	17.10	ug/L	97
108)	TPH-GRO (C6-C10)	12.34	TIC	49353683m	1765.94	ug/kg	

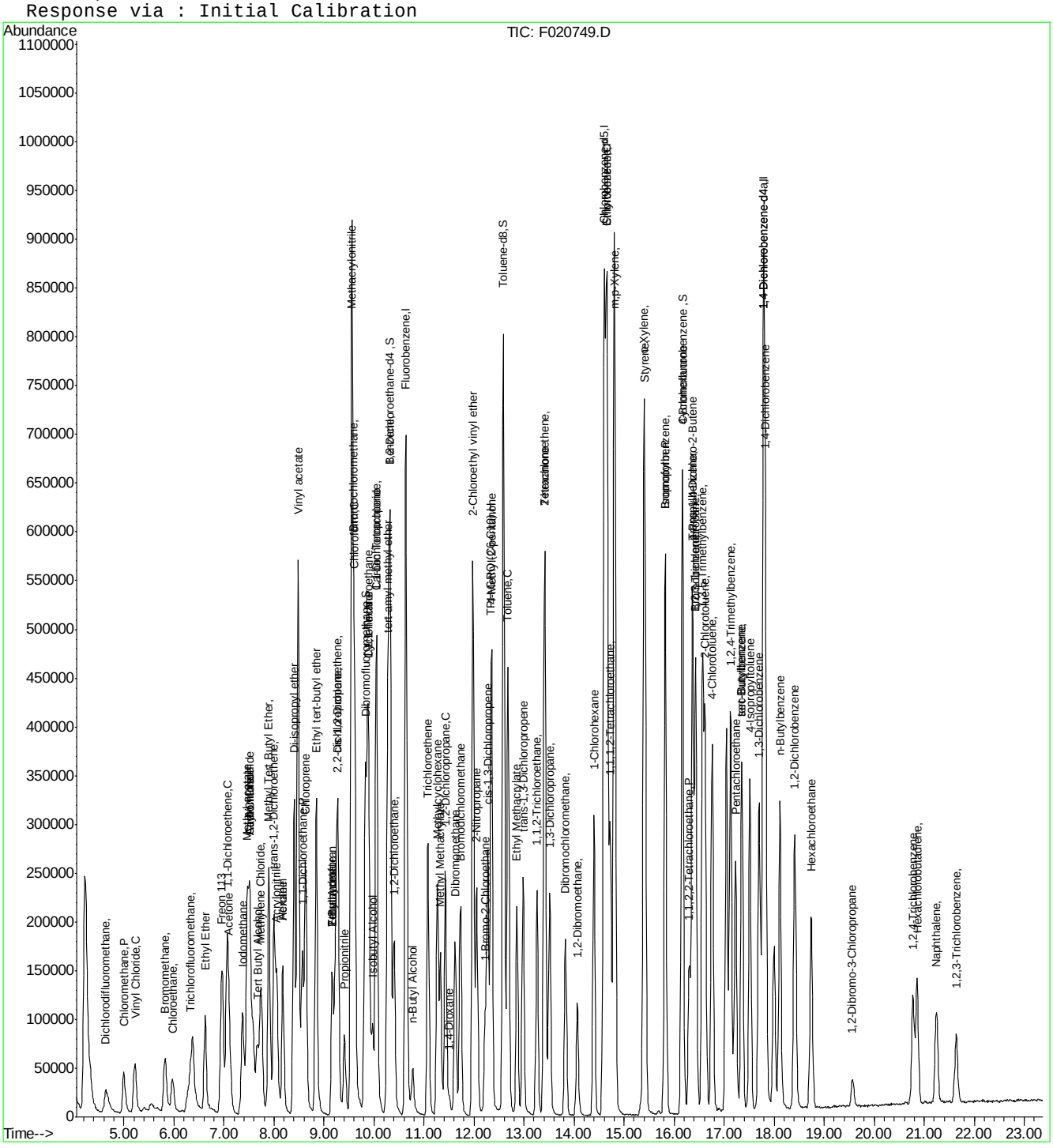
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020749.D Vial: 4
Acq On : 14 Oct 2009 11:27 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 11:51 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 18:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003986.D
Acq On : 14 Oct 2009 11:57 am
Operator : AnjanaP
Sample : bs
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 12:26:03 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1279831	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.549	117	1123358	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	578064	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	578064	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.713	113	334083	51.28	ug/l	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 102.56%			
39) 1,2-Dichloroethane-d4	10.122	65	361336	51.24	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 102.48%			
54) Toluene-d8	12.008	98	1157804	49.94	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 99.88%			
74) 4-Bromofluorobenzene	14.746	95	402984	44.95	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.400	85	109230	21.54	ug/l	94
3) Chloromethane	4.777	50	127202	26.93	ug/l	100
4) Vinyl Chloride	5.046	62	142020	30.20	ug/l	98
5) Bromomethane	5.682	94	113240	31.57	ug/l	97
6) Chloroethane	5.844	64	82767	29.85	ug/l	98
7) Trichlorofluoromethane	6.264	101	219173	27.67	ug/l	98
8) Ethyl Ether	6.620	59	112082	24.74	ug/l	95
9) Acrolein	6.965	56	2876	57.42	ug/l	94
10) 1,1-Dichloroethene	7.051	61	181802	22.38	ug/l	97
11) Freon 113	6.965	101	144436	27.48	ug/l	98
12) Acetone	7.126	43	153194	114.40	ug/l	99
13) Iodomethane	7.331	142	236791	22.79	ug/l	96
14) Methyl Acetate	7.504	43	391737	112.11	ug/l	97
15) Carbon Disulfide	7.439	76	438315	24.63	ug/l	98
16) Methylene Chloride	7.730	49	186168	22.79	ug/l	99
17) Tert Butyl Alcohol	7.504	59	37192	236.24	ug/l #	83
18) trans-1,2-Dichloroethene	8.010	61	205343	25.34	ug/l	99
19) Acrylonitrile	8.075	53	206318	121.66	ug/l	98
20) Methyl Tert Butyl Ether	7.935	73	318164	19.06	ug/l	94
21) Hexane	8.204	57	67727	19.93	ug/l	86
22) 1,1-Dichloroethane	8.560	63	273333	25.45	ug/l	99
23) Vinyl Acetate	8.506	43	1197749	116.67	ug/l	99
24) Di-isopropyl ether	8.441	45	329881	20.21	ug/l	95
25) Ethyl tert-butyl ether	8.861	59	337043	19.50	ug/l	98
26) 2,2-Dichloropropane	9.206	77	199275	27.08	ug/l	98
27) cis-1,2-Dichloroethene	9.217	96	174016	26.06	ug/l	96
28) 2-Butanone	9.142	43	442273m	76.98	ug/l	
29) Bromochloromethane	9.497	128	99893	25.22	ug/l #	88
30) Chloroform	9.519	83	300319	25.22	ug/l	98
31) Tetrahydrofuran	9.487	42	55769	41.08	ug/l #	1
32) 1,1,1-Trichloroethane	9.745	97	228226	27.00	ug/l	97
34) Cyclohexane	9.756	56	132109	22.40	ug/l	97
35) n-Butyl Alcohol	10.553	43	22819	408.80	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003986.D
Acq On : 14 Oct 2009 11:57 am
Operator : AnjanaP
Sample : bs
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 12:26:03 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	192347	24.57	ug/l	97
37) Isobutyl Alcohol	9.874	43	71889	441.56	ug/L	96
38) Carbon Tetrachloride	9.896	117	207230	28.08	ug/l	98
40) Benzene	10.133	78	660853	26.06	ug/l	85
41) 1,2-Dichloroethane	10.198	62	211903	25.45	ug/l	97
42) tert-amyl methyl ether	10.122	73	341319	19.87	ug/l	94
43) Trichloroethene	10.780	95	146879	23.96	ug/l	98
44) Methylcyclohexane	10.941	83	103679	20.06	ug/l	98
45) 1,2-Dichloropropane	11.071	63	145743	24.28	ug/l	96
46) Dibromomethane	11.211	93	101306	24.33	ug/l	98
47) 1,4-Dioxane	11.125	88	24233	374.57	ug/l	96
48) Bromodichloromethane	11.308	83	202762	24.81	ug/l	98
49) 2-Nitropropane	11.588	41	163187	124.73	ug/l	98
50) 2-Chloroethyl vinyl ether	11.534	63	415881	109.31	ug/l	98
51) 4-Methyl-2-pentanone	11.836	43	489439	113.30	ug/l	98
52) cis-1,3-Dichloropropene	11.760	75	220685	20.73	ug/l	98
55) Toluene	12.073	91	661292	22.21	ug/l	99
56) trans-1,3-Dichloropropene	12.321	75	212047	21.99	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	125114	21.81	ug/l	96
58) Tetrachloroethene	12.633	166	162953	22.69	ug/l	98
59) 2-hexanone	12.676	43	321356	97.66	ug/l	98
60) 1,3-Dichloropropane	12.720	76	249052	23.07	ug/l	97
61) Dibromochloromethane	12.957	129	160853	21.82	ug/l	98
62) 1,2-Dibromoethane	13.140	107	138609	21.53	ug/l	96
63) 1-Chlorohexane	13.409	91	94190	17.95	ug/l	86
64) Chlorobenzene	13.582	112	476613	22.72	ug/l	100
65) 1,1,1,2-Tetrachloroethane	13.636	131	172212	24.04	ug/l	99
66) Ethylbenzene	13.603	91	654642	23.20	ug/l	98
67) m,p-Xylene	13.711	91	1016980	44.25	ug/l	98
68) o-Xylene	14.153	91	461122	19.67	ug/l	96
69) Styrene	14.164	104	406488	19.41	ug/l	97
70) Bromoform	14.465	173	109521	21.61	ug/kg	100
72) Isopropylbenzene	14.487	105	402080	18.89	ug/l	98
73) Cyclohexanone	14.735	55	28688	212.44	ug/l #	72
75) Bromobenzene	14.950	156	222795	22.77	ug/l	99
76) 1,1,2,2-Tetrachloroethane	14.853	83	191302	21.86	ug/l	95
77) Trans-1,4-Dichloro-2-b...	14.907	53	47881	20.92	ug/l	88
78) 1,2,3-Trichloropropane	14.950	110	53921	20.24	ug/l	98
79) n-Propylbenzene	14.907	91	578328	20.70	ug/l	98
80) 2-Chlorotoluene	15.091	91	487530	21.47	ug/l	100
81) 4-Chlorotoluene	15.209	91	417429	19.88	ug/l	96
82) 1,3,5-Trimethylbenzene	15.069	105	394330	19.30	ug/l	100
83) sec-Butylbenzene	15.651	105	424807	19.12	ug/l	96
84) 1,3-Dichlorobenzene	15.888	146	324157	21.89	ug/l	98
85) 4-Isopropyltoluene	15.769	119	351924	22.53	ug/l	98
86) 1,4-Dichlorobenzene	15.985	146	367471	21.55	ug/l	97
87) tert-Butylbenzene	15.425	91	191702	18.97	ug/l	97
88) n-Butylbenzene	16.211	91	315302	19.08	ug/l	98
89) 1,2-Dichlorobenzene	16.427	146	316385	21.22	ug/l	99
90) 1,2,4-Trimethylbenzene	15.478	105	456645	20.52	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003986.D
Acq On : 14 Oct 2009 11:57 am
Operator : AnjanaP
Sample : bs
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 12:26:03 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

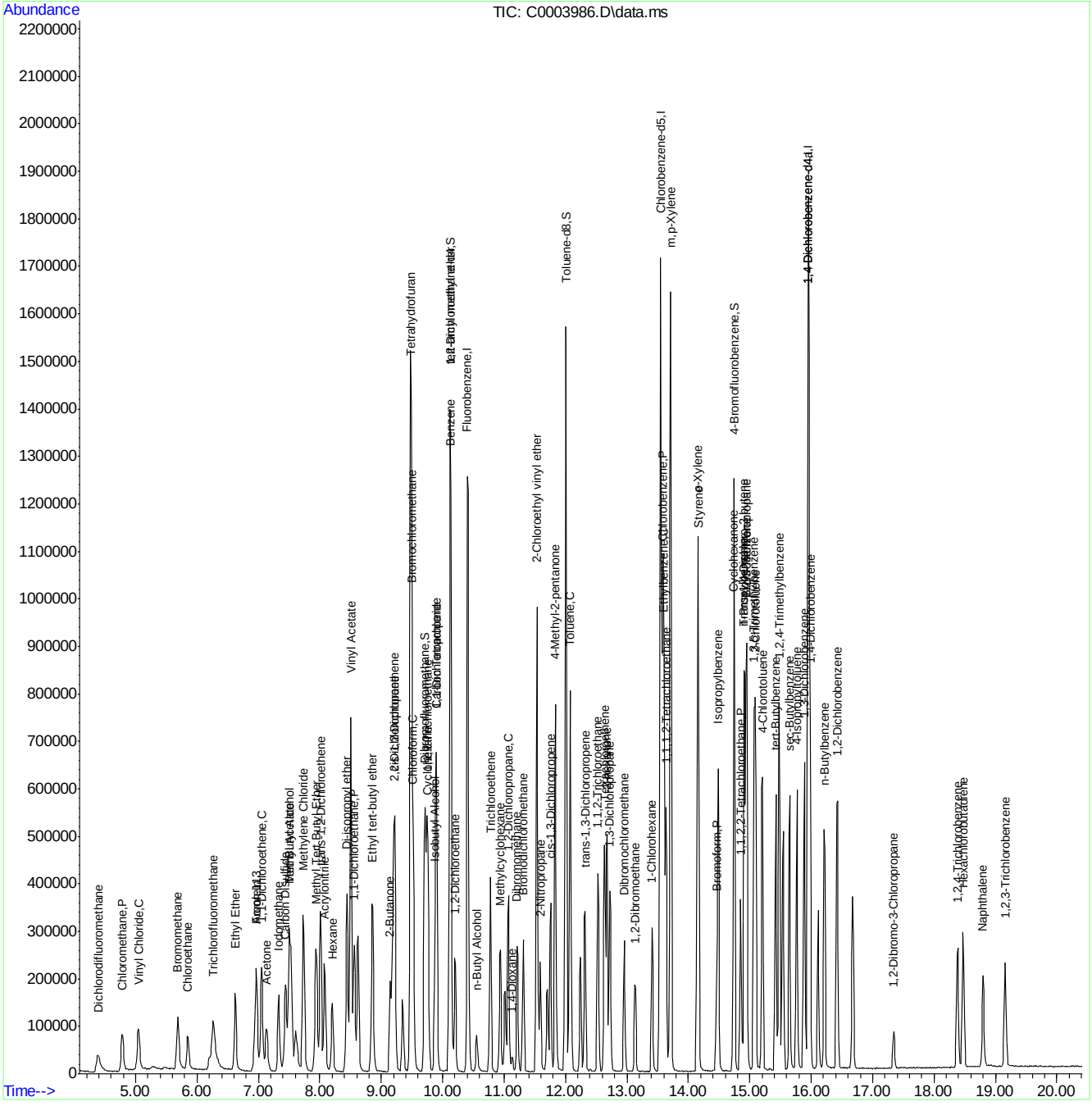
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	25228	22.47 ug/l	85
92) 1,2,4-Trichlorobenzene	18.388	180	122353	18.73 ug/l	98
93) Hexachlorobutadiene	18.474	225	87405	23.53 ug/l	96
94) Naphthalene	18.798	128	214490	16.35 ug/l	96
95) 1,2,3-Trichlorobenzene	19.164	180	111033	22.80 ug/l	97
97) TPH-GRO (C6-C10)	11.619	TIC	52218594m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003986.D
Acq On : 14 Oct 2009 11:57 am
Operator : AnjanaP
Sample : bs
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 12:26:03 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/15/09 16:44

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020777.D Vial: 5
Acq On : 15 Oct 2009 11:20 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 11:51:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1101097	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.62	117	818535	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.81	152	441750	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.81	152	441750	50.00	ug/kg	0.03

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	292590	44.82	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 89.64%			
45) 1,2-Dichloroethane-d4	10.31	65	366737	43.99	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 87.98%			
62) Toluene-d8	12.60	98	874907	46.19	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.38%			
83) 4-Bromofluorobenzene	16.18	95	374044	44.83	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.66%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.64	85	92667	14.99	ug/L	97
3) Chloromethane	5.00	50	83205	14.12	ug/L	98
4) Vinyl Chloride	5.21	62	92043	19.20	ug/L	99
5) Bromomethane	5.82	94	85419	23.43	ug/L	93
6) Chloroethane	5.97	64	67856	23.08	ug/L	98
7) Trichlorofluoromethane	6.35	101	190898	19.98	ug/L	93
8) Acrolein	8.18	56	59904	125.51	ug/L	100
9) Ethyl Ether	6.63	59	86129	21.71	ug/L	93
10) 1,1-Dichloroethene	7.07	61	204081	26.45	ug/L	93
11) Freon 113	6.96	101	132903	26.79	ug/L	95
12) Acetone	7.11	43	186168	125.63	ug/L	90
13) Iodomethane	7.38	142	245421	28.69	ug/L	94
14) Methyl acetate	7.47	43	375922	119.39	ug/L	98
15) Allyl Chloride	7.52	41	160781	27.74	uL/L	92
16) Carbon Disulfide	7.52	76	387541	25.49	ug/L	91
17) Acetonitrile	7.52	41	92895m	92.63	uL/L	
18) Methylene Chloride	7.75	49	165269	25.29	ug/L	97
19) Tert Butyl Alcohol	7.66	59	108553	236.28	ug/L	94
20) trans-1,2-Dichloroethene	8.01	61	186575	25.94	ug/L	89
21) Acrylonitrile	8.07	53	154224	119.78	ug/L	97
22) Methyl Tert Butyl Ether	7.91	73	406588	24.95	ug/L	97
23) Hexane	8.18	57	100599	25.31	ug/L	91
24) 1,1-Dichloroethane	8.58	63	229332	25.24	ug/L	96
25) Vinyl acetate	8.49	43	1357938	119.04	ug/L	98
26) Di-isopropyl ether	8.41	45	431337	24.26	ug/L	98
27) Chloroprene	8.64	53	234425	27.83	uL/L	96
28) Ethyl tert-butyl ether	8.85	59	433231	24.80	ug/L	97
29) 2,2-Dichloropropane	9.27	77	167899	22.38	ug/L	96
30) cis-1,2-Dichloroethene	9.29	96	156089	24.97	ug/L	90
31) Ethyl Acetate	9.18	43	255314	41.48	uL/L	98
32) 2-Butanone	9.18	43	515415m	83.74	ug/L	
33) Propionitrile	9.41	54	119018	252.78	uL/L	100
34) Methacrylonitrile	9.56	41	727929	176.01	uL/L	88
35) Bromochloromethane	9.61	128	80321	25.95	ug/L	92

(#) = qualifier out of range (m) = manual integration
F020777.D VF3547AP9G.M Thu Oct 15 16:31:38 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020777.D Vial: 5
Acq On : 15 Oct 2009 11:20 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 11:51:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	291268	24.18	ug/L		99
37)	Tetrahydrofuran	9.17	42	21097	6.52	ug/L		87
38)	1,1,1-Trichloroethane	9.88	97	248123	23.90	ug/L		100
40)	Cyclohexane	9.90	56	164031	26.26	ug/L		91
41)	Isobutyl Alcohol	9.99	43	71826	934.44	uL/L		79
42)	n-Butyl Alcohol	10.78	56	44107	955.59	ug/L		79
43)	1,1-Dichloropropene	10.05	75	200617	25.94	ug/L		89
44)	Carbon Tetrachloride	10.05	117	222630	24.61	ug/L		97
46)	Benzene	10.34	78	470453	26.04	ug/L		94
47)	1,2-Dichloroethane	10.41	62	235359	22.45	ug/L		97
48)	tert-amyl methyl ether	10.28	73	415197	25.23	ug/L		95
49)	Trichloroethene	11.09	95	158880	25.65	ug/L		98
50)	Methylcyclohexane	11.28	83	152289	26.16	ug/L		94
51)	Methyl Methacrylate	11.34	41	116645	24.17	uL/L		94
52)	1,2-Dichloropropane	11.44	63	111981	25.19	ug/L		87
53)	Dibromomethane	11.63	93	107050	25.00	ug/L		98
54)	1,4-Dioxane	11.52	88	23083	517.10	ug/L		89
55)	Bromodichloromethane	11.75	83	232028	22.32	ug/L		97
56)	2-Nitropropane	12.06	41	238919	108.92	ug/L		99
57)	2-Chloroethyl vinyl ether	11.99	63	359927	157.27	ug/L		99
58)	1-Bromo-2-Chloroethane	12.23	63	122367	18.84	uL/L		100
59)	4-Methyl-2-pentanone	12.36	43	508927	118.46	ug/L		97
60)	cis-1,3-Dichloropropene	12.29	75	239157	24.63	ug/L		92
63)	Toluene	12.69	91	557228	25.38	ug/L		98
64)	Ethyl Methacrylate	12.87	69	165703	23.67	uL/:		99
65)	trans-1,3-Dichloropropene	13.00	75	234962	24.67	ug/L		94
66)	1,1,2-Trichloroethane	13.27	83	99321	24.17	ug/L		92
67)	Tetrachloroethene	13.42	166	176942	25.64	ug/L		98
68)	2-hexanone	13.44	43	356288	113.15	ug/L		94
69)	1,3-Dichloropropane	13.53	76	223489	24.19	ug/L		89
70)	Dibromochloromethane	13.84	129	164892	23.27	ug/L		98
71)	1,2-Dibromoethane	14.08	107	139299	24.13	ug/L		100
72)	1-Chlorohexane	14.41	91	197001	25.59	ug/L		93
73)	Chlorobenzene	14.66	112	371556	25.51	ug/L		91
74)	1,1,1,2-Tetrachloroethane	14.74	131	151213	24.00	ug/L		97
75)	Ethylbenzene	14.68	91	674395	24.67	ug/L		99
76)	m,p-Xylene	14.83	91	1032690	49.09	ug/L		95
77)	o-Xylene	15.41	91	539006	24.63	ug/L		98
78)	Styrene	15.44	104	374601	24.07	ug/L		91
79)	Bromoform	15.83	173	110846	21.99	ug/L		98
81)	Isopropylbenzene	15.84	105	511928	25.60	ug/L		98
82)	Cyclohexanone	16.17	55	68642	405.54	ug/L	#	75
84)	Bromobenzene	16.45	156	178687	24.99	ug/L		98
85)	1,1,2,2-Tetrachloroethane	16.31	83	130315	23.84	ug/L		96
86)	Trans-1,4-Dichloro-2-Buten	16.39	53	39557	19.54	ug/L	#	91
87)	1,2,3-Trichloropropane	16.44	110	45239	21.71	ug/L		89
88)	n-Propylbenzene	16.38	91	665011	24.25	ug/L		100
89)	2-Chlorotoluene	16.63	91	488612	23.98	ug/L		97
90)	4-Chlorotoluene	16.77	91	459303	24.13	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020777.D Vial: 5
Acq On : 15 Oct 2009 11:20 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 11:51:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.59	105	431034	23.76	ug/L	97
92)	Pentachloroethane	17.25	167	100888	21.88	uL/L	98
93)	sec-Butylbenzene	17.38	105	475053	23.74	ug/L	99
94)	1,3-Dichlorobenzene	17.72	146	276335	24.74	ug/L	96
95)	4-Isopropyltoluene	17.53	119	377027	23.18	ug/L	100
96)	1,4-Dichlorobenzene	17.85	146	285920	24.85	ug/L	99
97)	tert-Butylbenzene	17.37	91	82163	23.42	ug/L	91
98)	n-Butylbenzene	18.13	91	343347	21.80	ug/L	96
99)	1,2-Dichlorobenzene	18.43	146	248219	23.69	ug/L	97
100)	1,2,4-Trimethylbenzene	17.14	105	449311	23.17	ug/L	100
101)	Hexachloroethane	18.76	119	83620	21.70	uL/L	95
102)	1,2-Dibromo-3-Chloropropan	19.59	75	15687	15.26	ug/L	92
103)	1,2,4-Trichlorobenzene	20.80	180	73277	12.57	ug/L	95
104)	Hexachlorobutadiene	20.88	225	51755	20.11	ug/L	97
105)	Naphthalene	21.26	128	84143	9.47	ug/L	100
106)	1,2,3-Trichlorobenzene	21.67	180	27686	7.50	ug/L	98
108)	TPH-GRO (C6-C10)	12.34	TIC	51287808m	1893.98	ug/kg	

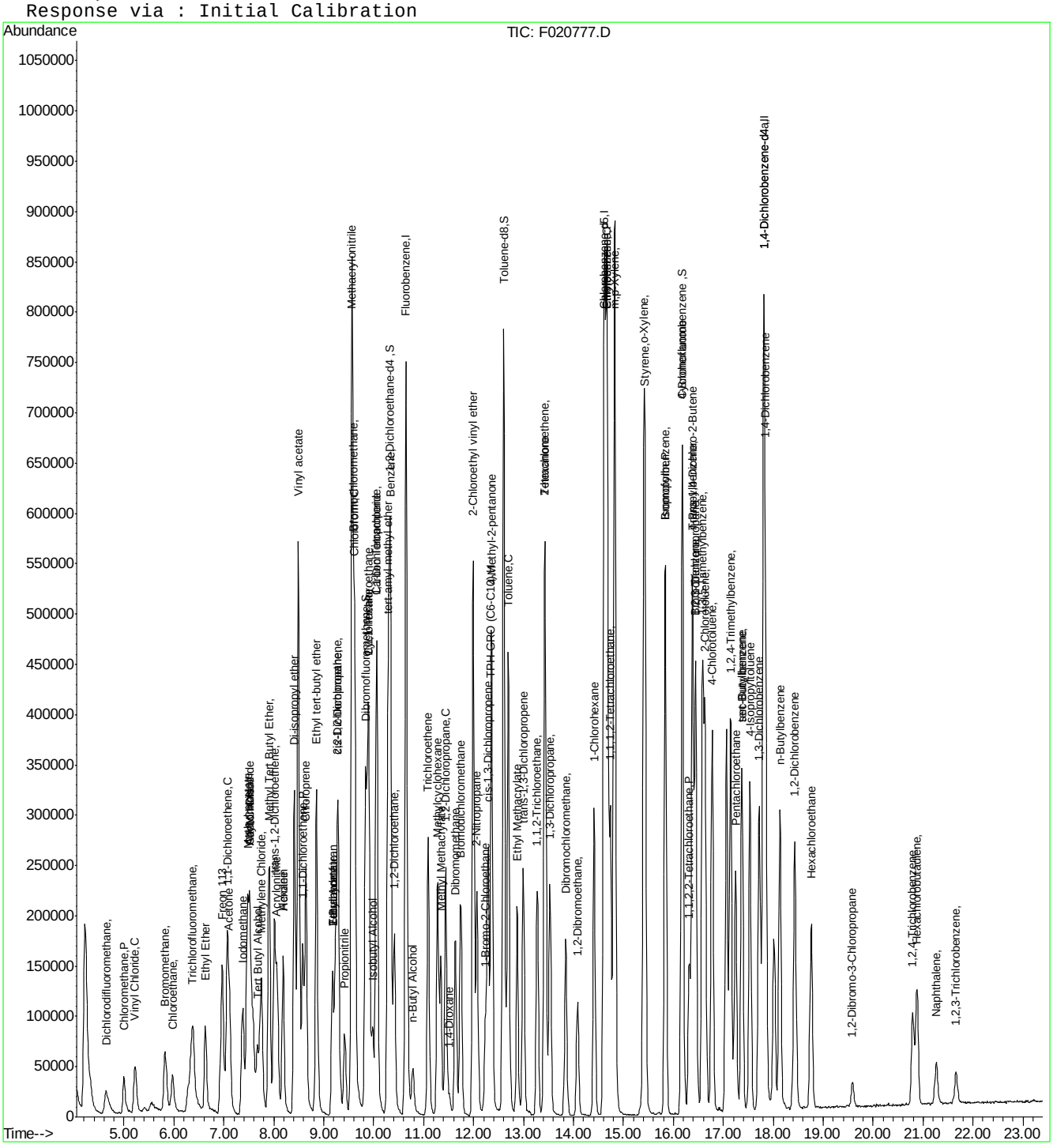
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020777.D Vial: 5
Acq On : 15 Oct 2009 11:20 am Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 11:52 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/14/09 16:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020708.D Vial: 10
Acq On : 13 Oct 2009 1:41 pm Operator: AnjanaP
Sample : t39513-1ms Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	884608	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	710747	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	405839	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	405839	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	260594	49.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.36%			
45) 1,2-Dichloroethane-d4	10.30	65	352137	52.98	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 105.96%			
62) Toluene-d8	12.58	98	728660	43.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.22%			
83) 4-Bromofluorobenzene	16.15	95	339204	44.26	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.52%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.62	85	90032	18.12	ug/L	97
3) Chloromethane	4.98	50	102527	22.36	ug/L	96
4) Vinyl Chloride	5.21	62	102113	26.99	ug/L	99
5) Bromomethane	5.81	94	93240	32.54	ug/L	95
6) Chloroethane	5.96	64	69635	29.48	ug/L	96
7) Trichlorofluoromethane	6.32	101	196449	25.59	ug/L	93
8) Acrolein	8.16	56	34464	89.88	ug/L	97
9) Ethyl Ether	6.61	59	96591	30.31	ug/L	96
10) 1,1-Dichloroethene	7.05	61	182733	29.48	ug/L	99
11) Freon 113	6.94	101	103468	25.96	ug/L	94
12) Acetone	7.10	43	272469	237.86	ug/L	97
13) Iodomethane	7.35	142	216157	31.46	ug/L	97
14) Methyl acetate	7.45	43	415893	163.60	ug/L	97
15) Allyl Chloride	7.50	41	113053	23.92	uL/L	96
16) Carbon Disulfide	7.49	76	330354	27.05	ug/L	96
17) Acetonitrile	7.50	41	46870m	55.40	uL/L	
18) Methylene Chloride	7.73	49	141889	27.07	ug/L	98
19) Tert Butyl Alcohol	7.65	59	155977	422.59	ug/L	75
20) trans-1,2-Dichloroethene	7.99	61	170257	29.47	ug/L	94
21) Acrylonitrile	8.04	53	160007	154.68	ug/L	96
22) Methyl Tert Butyl Ether	7.89	73	422971	32.31	ug/L	99
23) Hexane	8.17	57	57718	18.08	ug/L	91
24) 1,1-Dichloroethane	8.55	63	204706	28.04	ug/L	97
25) Vinyl acetate	8.47	43	1433972	156.48	ug/L	99
26) Di-isopropyl ether	8.39	45	385090	26.96	ug/L	99
27) Chloroprene	8.62	53	195800	28.94	uL/L	97
28) Ethyl tert-butyl ether	8.83	59	412878	29.42	ug/L	99
29) 2,2-Dichloropropane	9.24	77	85108	14.12	ug/L	96
30) cis-1,2-Dichloroethene	9.27	96	138203	27.51	ug/L	88
31) Ethyl Acetate	9.15	43	336504	68.05	uL/L	99
32) 2-Butanone	9.15	43	598823m	121.10	ug/L	
33) Propionitrile	9.40	54	125358	331.40	uL/L	99
34) Methacrylonitrile	9.55	41	821629	247.28	uL/L	90
35) Bromochloromethane	9.59	128	77340	31.10	ug/L	89

(#) = qualifier out of range (m) = manual integration
F020708.D VF3547AP9G.M Wed Oct 14 13:32:49 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020708.D Vial: 10
Acq On : 13 Oct 2009 1:41 pm Operator: AnjanaP
Sample : t39513-1ms Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.60	83	277108	28.64	ug/L		98
37)	Tetrahydrofuran	9.15	42	29968	12.73	ug/L		98
38)	1,1,1-Trichloroethane	9.86	97	229278	27.49	ug/L		96
40)	Cyclohexane	9.88	56	122304	24.37	ug/L		95
41)	Isobutyl Alcohol	9.96	43	93296	1495.69	uL/L		82
42)	n-Butyl Alcohol	10.76	56	58571	1551.83	ug/L		88
43)	1,1-Dichloropropene	10.04	75	174432	28.07	ug/L		95
44)	Carbon Tetrachloride	10.04	117	204475	28.14	ug/L		98
46)	Benzene	10.32	78	555897	38.30	ug/L		92
47)	1,2-Dichloroethane	10.38	62	243929	28.96	ug/L		98
48)	tert-amyl methyl ether	10.26	73	407852	30.85	ug/L		99
49)	Trichloroethene	11.06	95	136656	27.54	ug/L		95
50)	Methylcyclohexane	11.26	83	99136	21.20	ug/L		95
51)	Methyl Methacrylate	11.32	41	132445	34.16	uL/L		98
52)	1,2-Dichloropropane	11.42	63	99023	27.72	ug/L		92
53)	Dibromomethane	11.61	93	104414	30.36	ug/L		98
54)	1,4-Dioxane	11.50	88	28332	790.01	ug/L		94
55)	Bromodichloromethane	11.72	83	219655	26.30	ug/L		99
56)	2-Nitropropane	12.04	41	312051	177.08	ug/L		99
58)	1-Bromo-2-Chloroethane	12.22	63	113811	21.81	uL/L		98
59)	4-Methyl-2-pentanone	12.33	43	691550	200.36	ug/L		99
60)	cis-1,3-Dichloropropene	12.26	75	184835	23.69	ug/L		95
63)	Toluene	12.67	91	483478	25.36	ug/L		99
64)	Ethyl Methacrylate	12.84	69	183764	30.23	uL/:		98
65)	trans-1,3-Dichloropropene	12.97	75	197695	23.91	ug/L		96
66)	1,1,2-Trichloroethane	13.25	83	96683	27.09	ug/L		95
67)	Tetrachloroethene	13.40	166	150315	25.08	ug/L		96
68)	2-hexanone	13.41	43	496263	181.50	ug/L		97
69)	1,3-Dichloropropane	13.50	76	213254	26.58	ug/L		94
70)	Dibromochloromethane	13.82	129	163646	26.60	ug/L		97
71)	1,2-Dibromoethane	14.06	107	142384	28.41	ug/L		97
72)	1-Chlorohexane	14.39	91	140637	21.04	ug/L		92
73)	Chlorobenzene	14.64	112	312720	24.72	ug/L		97
74)	1,1,1,2-Tetrachloroethane	14.71	131	138342	25.29	ug/L		99
75)	Ethylbenzene	14.65	91	631603	26.61	ug/L		99
76)	m,p-Xylene	14.79	91	885278	48.47	ug/L		99
77)	o-Xylene	15.38	91	464463	24.44	ug/L		98
78)	Styrene	15.40	104	307414	22.75	ug/L		94
79)	Bromoform	15.81	173	124980	28.55	ug/L		92
81)	Isopropylbenzene	15.82	105	415991	22.64	ug/L		98
82)	Cyclohexanone	16.14	55	20113	131.27	ug/L	#	64
84)	Bromobenzene	16.42	156	160482	24.43	ug/L		94
85)	1,1,2,2-Tetrachloroethane	16.29	83	147627	29.39	ug/L		97
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	40780	21.93	ug/L	#	96
87)	1,2,3-Trichloropropane	16.42	110	53557	27.97	ug/L		86
88)	n-Propylbenzene	16.36	91	525751	20.87	ug/L		99
89)	2-Chlorotoluene	16.60	91	407907	21.79	ug/L		99
90)	4-Chlorotoluene	16.75	91	384463	21.98	ug/L		97
91)	1,3,5-Trimethylbenzene	16.55	105	345927	20.75	ug/L		100

(#) = qualifier out of range (m) = manual integration

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020708.D Vial: 10
Acq On : 13 Oct 2009 1:41 pm Operator: AnjanaP
Sample : t39513-1ms Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

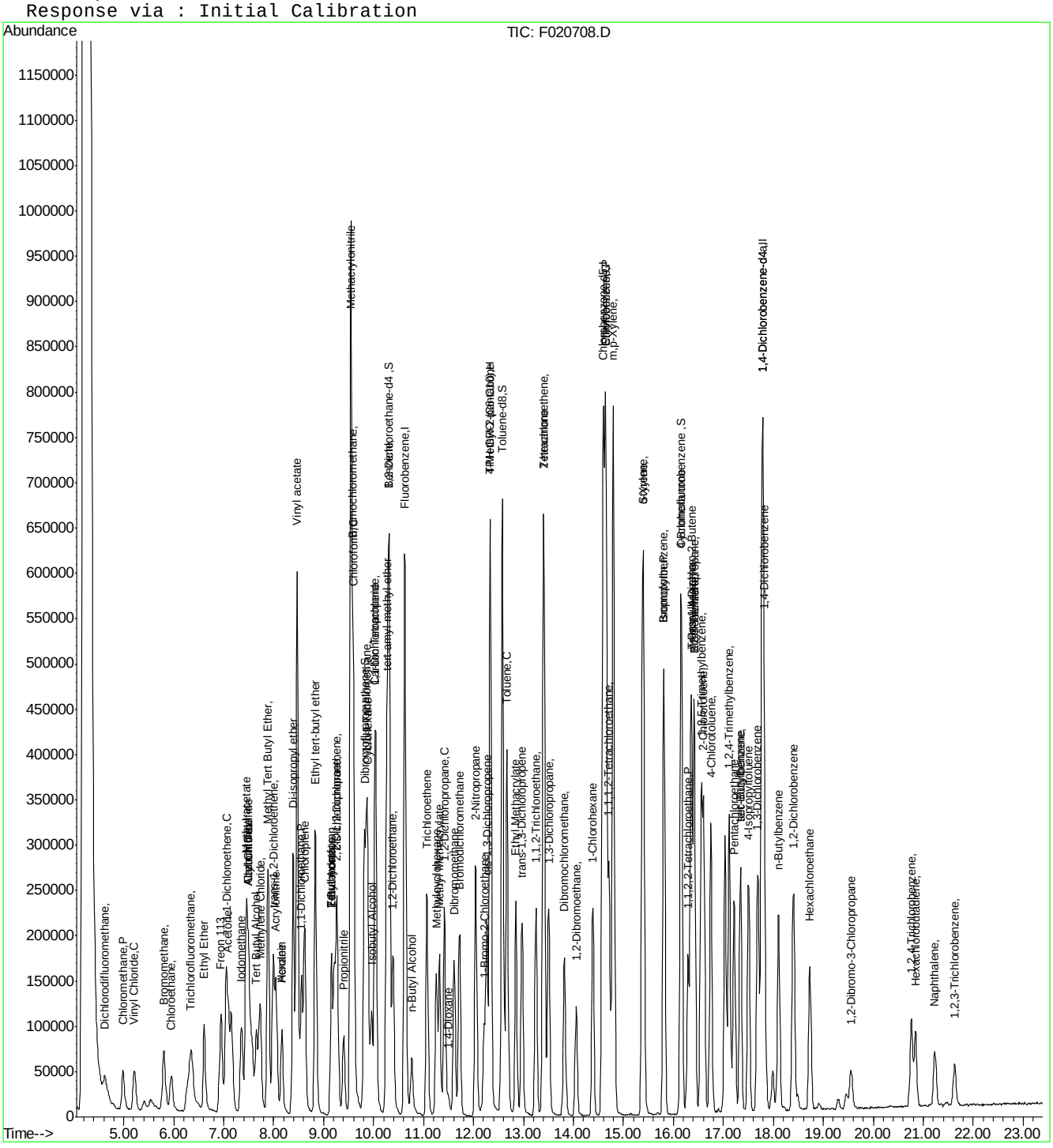
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	Pentachloroethane	17.21	167	96392	22.75	uL/L	97
93)	sec-Butylbenzene	17.34	105	353644	19.24	ug/L	99
94)	1,3-Dichlorobenzene	17.69	146	227154	22.14	ug/L	98
95)	4-Isopropyltoluene	17.50	119	281999	18.87	ug/L	98
96)	1,4-Dichlorobenzene	17.82	146	242330	22.93	ug/L	96
97)	tert-Butylbenzene	17.34	91	64634	19.91	ug/L	94
98)	n-Butylbenzene	18.11	91	255525	17.66	ug/L	99
99)	1,2-Dichlorobenzene	18.40	146	220583	22.91	ug/L	97
100)	1,2,4-Trimethylbenzene	17.12	105	367381	20.62	ug/L	98
101)	Hexachloroethane	18.73	119	68772	19.42	uL/L	91
102)	1,2-Dibromo-3-Chloropropan	19.56	75	26832	31.33	ug/L	89
103)	1,2,4-Trichlorobenzene	20.77	180	74714	14.18	ug/L	98
104)	Hexachlorobutadiene	20.85	225	36650	14.62	ug/L	97
105)	Naphthalene	21.23	128	118781	15.68	ug/L	96
106)	1,2,3-Trichlorobenzene	21.63	180	37749	12.48	ug/L	93
108)	TPH-GRO (C6-C10)	12.34	TIC	44940583m	1842.08	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020708.D VF3547AP9G.M Wed Oct 14 13:32:49 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020708.D Vial: 10
Acq On : 13 Oct 2009 1:41 pm Operator: AnjanaP
Sample : t39513-1ms Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:15 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/14/09 16:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020709.D Vial: 11
Acq On : 13 Oct 2009 2:11 pm Operator: AnjanaP
Sample : t39513-1msd Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:38 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	893096	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	718086	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	408402	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	408402	50.00	ug/kg	0.00

System Monitoring Compounds						
39) Dibromofluoromethane	9.82	113	262933	49.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.30%			
45) 1,2-Dichloroethane-d4	10.29	65	343339	51.10	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 102.20%			
62) Toluene-d8	12.58	98	718874	42.62	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 85.24%#			
83) 4-Bromofluorobenzene	16.15	95	334463	43.38	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.76%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.62	85	86742	17.29	ug/L	97
3) Chloromethane	4.98	50	101869	21.99	ug/L	98
4) Vinyl Chloride	5.20	62	100004	26.15	ug/L	96
5) Bromomethane	5.80	94	90422	31.17	ug/L	95
6) Chloroethane	5.95	64	68545	28.74	ug/L	94
7) Trichlorofluoromethane	6.31	101	182446	23.54	ug/L	95
8) Acrolein	8.16	56	32885	84.95	ug/L	98
9) Ethyl Ether	6.61	59	93818	29.16	ug/L	95
10) 1,1-Dichloroethene	7.04	61	176123	28.14	ug/L	100
11) Freon 113	6.93	101	96269	23.93	ug/L	91
12) Acetone	7.09	43	264244	228.06	ug/L	98
13) Iodomethane	7.36	142	217145	31.30	ug/L	97
14) Methyl acetate	7.45	43	413821	161.27	ug/L	98
15) Allyl Chloride	7.50	41	120792	25.48	uL/L	96
16) Carbon Disulfide	7.50	76	325469	26.40	ug/L	93
17) Acetonitrile	7.50	41	43953m	50.71	uL/L	
18) Methylene Chloride	7.72	49	142597	26.94	ug/L	98
19) Tert Butyl Alcohol	7.65	59	152173	408.37	ug/L	98
20) trans-1,2-Dichloroethene	7.99	61	168299	28.85	ug/L	96
21) Acrylonitrile	8.05	53	162873	155.96	ug/L	99
22) Methyl Tert Butyl Ether	7.89	73	424477	32.12	ug/L	98
23) Hexane	8.16	57	54800	17.00	ug/L	99
24) 1,1-Dichloroethane	8.56	63	208600	28.30	ug/L	96
25) Vinyl acetate	8.47	43	1422359	153.73	ug/L	99
26) Di-isopropyl ether	8.39	45	385542	26.74	ug/L	97
27) Chloroprene	8.62	53	194183	28.42	uL/L	99
28) Ethyl tert-butyl ether	8.83	59	411984	29.08	ug/L	98
29) 2,2-Dichloropropane	9.25	77	82349	13.54	ug/L	91
30) cis-1,2-Dichloroethene	9.27	96	138287	27.27	ug/L	89
31) Ethyl Acetate	9.16	43	350259	70.16	uL/L	99
32) 2-Butanone	9.16	43	587309m	117.64	ug/L	
33) Propionitrile	9.40	54	128022	335.22	uL/L	98
34) Methacrylonitrile	9.54	41	812322	242.16	uL/L	93
35) Bromochloromethane	9.59	128	77786	30.99	ug/L	91

(#) = qualifier out of range (m) = manual integration
F020709.D VF3547AP9G.M Wed Oct 14 13:32:52 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020709.D Vial: 11
Acq On : 13 Oct 2009 2:11 pm Operator: AnjanaP
Sample : t39513-1msd Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:38 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.60	83	270678	27.71	ug/L		98
37)	Tetrahydrofuran	9.15	42	27514	11.43	ug/L		94
38)	1,1,1-Trichloroethane	9.86	97	226676	26.92	ug/L		98
40)	Cyclohexane	9.88	56	114569	22.62	ug/L		99
41)	Isobutyl Alcohol	9.96	43	91150	1448.19	uL/L		83
42)	n-Butyl Alcohol	10.76	56	58298	1530.52	ug/L		89
43)	1,1-Dichloropropene	10.03	75	171384	27.32	ug/L		96
44)	Carbon Tetrachloride	10.03	117	200152	27.28	ug/L		98
46)	Benzene	10.31	78	549133	37.47	ug/L		99
47)	1,2-Dichloroethane	10.39	62	239250	28.14	ug/L		97
48)	tert-amyl methyl ether	10.26	73	410133	30.73	ug/L		98
49)	Trichloroethene	11.07	95	136627	27.26	ug/L		98
50)	Methylcyclohexane	11.25	83	91653	19.41	ug/L		93
51)	Methyl Methacrylate	11.32	41	131196	33.52	uL/L		97
52)	1,2-Dichloropropane	11.42	63	97676	27.09	ug/L		96
53)	Dibromomethane	11.61	93	107186	30.87	ug/L		96
54)	1,4-Dioxane	11.49	88	27318	754.50	ug/L		93
55)	Bromodichloromethane	11.72	83	217996	25.86	ug/L		99
56)	2-Nitropropane	12.04	41	303925	170.83	ug/L		98
57)	2-Chloroethyl vinyl ether	12.21	63	117167	63.12	ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.21	63	115355	21.90	uL/L		96
59)	4-Methyl-2-pentanone	12.34	43	677518	194.43	ug/L		98
60)	cis-1,3-Dichloropropene	12.27	75	181675	23.07	ug/L		94
63)	Toluene	12.67	91	480144	24.93	ug/L		98
64)	Ethyl Methacrylate	12.85	69	182372	29.70	uL/:		96
65)	trans-1,3-Dichloropropene	12.98	75	194988	23.34	ug/L		95
66)	1,1,2-Trichloroethane	13.25	83	94945	26.33	ug/L		94
67)	Tetrachloroethene	13.40	166	148285	24.49	ug/L		99
68)	2-hexanone	13.41	43	484098	175.24	ug/L		97
69)	1,3-Dichloropropane	13.51	76	216292	26.68	ug/L		94
70)	Dibromochloromethane	13.82	129	162107	26.08	ug/L		99
71)	1,2-Dibromoethane	14.06	107	140726	27.79	ug/L		98
72)	1-Chlorohexane	14.39	91	141025	20.88	ug/L		93
73)	Chlorobenzene	14.64	112	311386	24.37	ug/L		98
74)	1,1,1,2-Tetrachloroethane	14.71	131	138424	25.05	ug/L		98
75)	Ethylbenzene	14.65	91	631550	26.33	ug/L		98
76)	m,p-Xylene	14.80	91	862485	46.73	ug/L		98
77)	o-Xylene	15.39	91	458950	23.91	ug/L		98
78)	Styrene	15.41	104	309132	22.64	ug/L		96
79)	Bromoform	15.81	173	121283	27.42	ug/L		96
81)	Isopropylbenzene	15.81	105	418415	22.63	ug/L		99
82)	Cyclohexanone	16.15	55	21299	137.99	ug/L	#	66
84)	Bromobenzene	16.42	156	161125	24.37	ug/L		98
85)	1,1,2,2-Tetrachloroethane	16.29	83	144472	28.59	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	40581	21.69	ug/L	#	97
87)	1,2,3-Trichloropropane	16.42	110	52728	27.37	ug/L		91
88)	n-Propylbenzene	16.36	91	529768	20.90	ug/L		100
89)	2-Chlorotoluene	16.61	91	411668	21.85	ug/L		98
90)	4-Chlorotoluene	16.75	91	385566	21.91	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020709.D Vial: 11
Acq On : 13 Oct 2009 2:11 pm Operator: AnjanaP
Sample : t39513-1msd Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 12:02:38 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

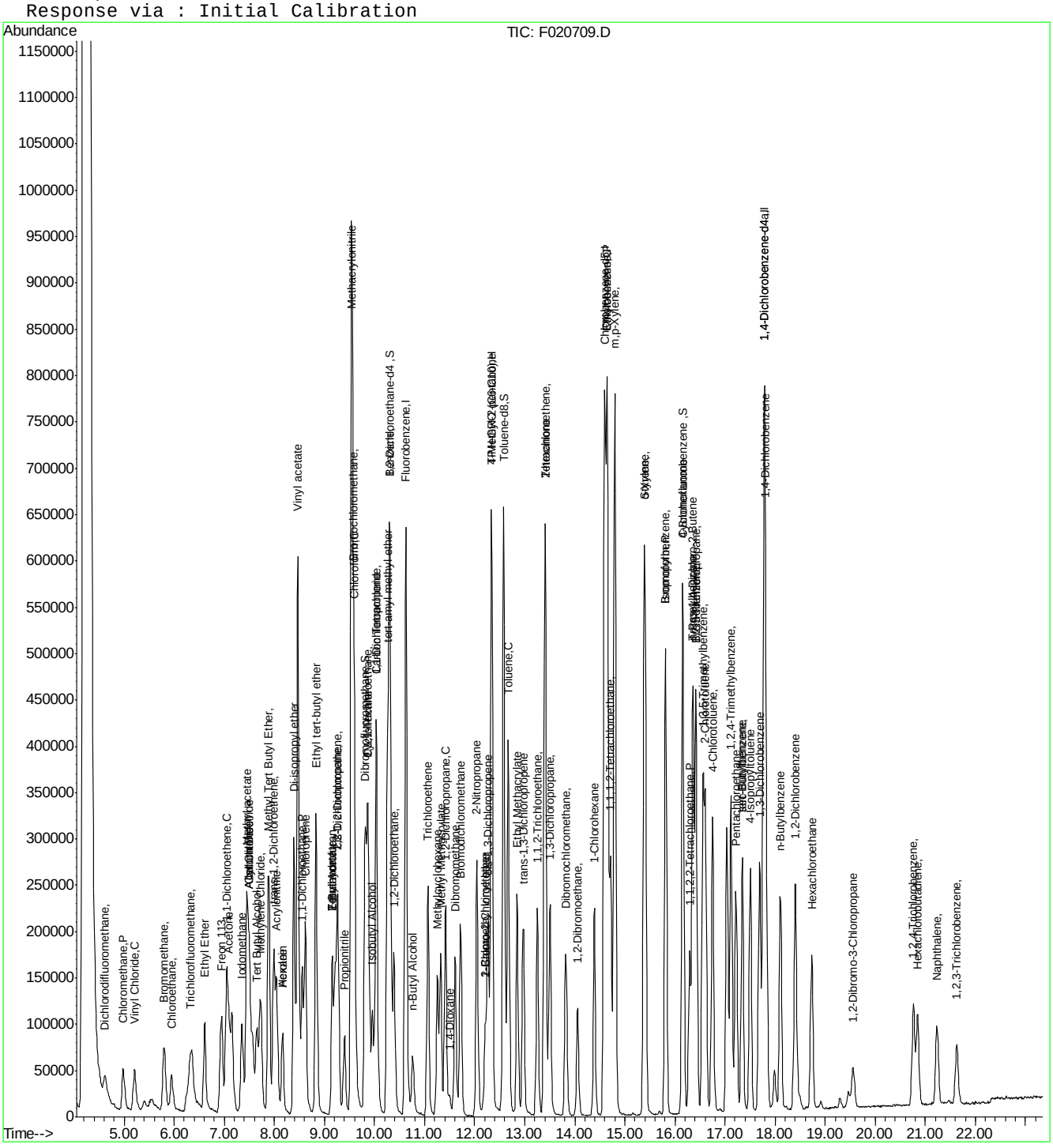
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.56	105	352926	21.04	ug/L	99
92)	Pentachloroethane	17.22	167	97583	22.89	uL/L	99
93)	sec-Butylbenzene	17.34	105	367664	19.88	ug/L	99
94)	1,3-Dichlorobenzene	17.69	146	235175	22.78	ug/L	97
95)	4-Isopropyltoluene	17.50	119	295097	19.62	ug/L	96
96)	1,4-Dichlorobenzene	17.82	146	244510	22.99	ug/L	96
97)	tert-Butylbenzene	17.34	91	65545	20.07	ug/L	94
98)	n-Butylbenzene	18.10	91	260225	17.87	ug/L	96
99)	1,2-Dichlorobenzene	18.41	146	225713	23.30	ug/L	97
100)	1,2,4-Trimethylbenzene	17.12	105	373794	20.85	ug/L	99
101)	Hexachloroethane	18.73	119	73045	20.50	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.57	75	26343	30.49	ug/L	98
103)	1,2,4-Trichlorobenzene	20.76	180	86455	16.63	ug/L	95
104)	Hexachlorobutadiene	20.85	225	43943	18.16	ug/L	96
105)	Naphthalene	21.23	128	168742	22.99	ug/L	98
106)	1,2,3-Trichlorobenzene	21.64	180	53961	18.90	ug/L	97
108)	TPH-GRO (C6-C10)	12.34	TIC	44857713m	1833.39	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020709.D Vial: 11
Acq On : 13 Oct 2009 2:11 pm Operator: AnjanaP
Sample : t39513-1msd Inst : GC/MS F
Misc : ms7105,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:15 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/15/09 16:45

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020729.D Vial: 31
Acq On : 14 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39646-4ms Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:45 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1183470	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	909212	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	483304	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	483304	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	328793	46.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 93.72%			
45) 1,2-Dichloroethane-d4	10.29	65	354518	39.36	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 78.72%			
62) Toluene-d8	12.57	98	958183	45.58	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.16%			
83) 4-Bromofluorobenzene	16.15	95	420351	46.03	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.06%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.61	85	101057	15.20	ug/L	97
3) Chloromethane	4.98	50	128135	20.81	ug/L	99
4) Vinyl Chloride	5.21	62	134192	26.49	ug/L	99
5) Bromomethane	5.78	94	111641	28.91	ug/L	96
6) Chloroethane	5.94	64	93145	29.48	ug/L	95
7) Trichlorofluoromethane	6.30	101	216870	21.12	ug/L	100
8) Acrolein	8.15	56	67078	130.76	ug/L	94
9) Ethyl Ether	6.60	59	112864	26.47	ug/L	94
10) 1,1-Dichloroethene	7.04	61	242936	29.29	ug/L	96
11) Freon 113	6.93	101	156644	29.38	ug/L	96
12) Acetone	7.09	43	196693	123.31	ug/L	87
13) Iodomethane	7.35	142	286794	31.20	ug/L	92
14) Methyl acetate	7.45	43	434725	128.29	ug/L	96
15) Allyl Chloride	7.50	41	161384	25.71	uL/L	95
16) Carbon Disulfide	7.49	76	484335	29.64	ug/L	90
17) Acetonitrile	7.50	41	62920m	55.62	uL/L	
18) Methylene Chloride	7.71	49	194971	27.82	ug/L	98
19) Tert Butyl Alcohol	7.64	59	142446	288.47	ug/L	94
20) trans-1,2-Dichloroethene	7.98	61	224127	28.99	ug/L	94
21) Acrylonitrile	8.04	53	199430	144.11	ug/L	95
22) Methyl Tert Butyl Ether	7.88	73	483413	27.60	ug/L	94
23) Hexane	8.15	57	114515	26.81	ug/L	89
24) 1,1-Dichloroethane	8.55	63	277807	28.45	ug/L	99
25) Vinyl acetate	8.46	43	1522843	124.21	ug/L	95
26) Di-isopropyl ether	8.38	45	547766	28.67	ug/L	95
27) Chloroprene	8.62	53	261226	28.86	uL/L	89
28) Ethyl tert-butyl ether	8.82	59	527563	28.10	ug/L	99
29) 2,2-Dichloropropane	9.24	77	159774	19.82	ug/L	93
30) cis-1,2-Dichloroethene	9.27	96	191536	28.50	ug/L	85
31) Ethyl Acetate	9.15	43	328120	49.60	uL/L	98
32) 2-Butanone	9.15	43	612609m	92.60	ug/L	
33) Propionitrile	9.39	54	153161	302.65	uL/L	98
34) Methacrylonitrile	9.54	41	927628	208.68	uL/L	90
35) Bromochloromethane	9.58	128	97342	29.26	ug/L	91

(#) = qualifier out of range (m) = manual integration
F020729.D VF3547AP9G.M Wed Oct 14 14:48:17 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020729.D Vial: 31
Acq On : 14 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39646-4ms Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:45 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.59	83	336298	25.98	ug/L		98
37)	Tetrahydrofuran	9.15	42	22416	6.43	ug/L		97
38)	1,1,1-Trichloroethane	9.86	97	276448	24.78	ug/L		97
40)	Cyclohexane	9.88	56	212829	31.70	ug/L		94
41)	Isobutyl Alcohol	9.96	43	93465	1126.16	uL/L		77
42)	n-Butyl Alcohol	10.76	56	57601	1151.97	ug/L		81
43)	1,1-Dichloropropene	10.02	75	235345	28.31	ug/L		90
44)	Carbon Tetrachloride	10.03	117	241469	24.84	ug/L		97
46)	Benzene	10.31	78	15012590	773.11	ug/L		75
47)	1,2-Dichloroethane	10.38	62	252883	22.44	ug/L		91
48)	tert-amyl methyl ether	10.25	73	772368	43.68	ug/L		94
49)	Trichloroethene	11.07	95	187775	28.32	ug/L		98
50)	Methylcyclohexane	11.25	83	167789	26.82	ug/L		96
51)	Methyl Methacrylate	11.31	41	132511	25.55	uL/L		94
52)	1,2-Dichloropropane	11.41	63	139305	29.15	ug/L		82
53)	Dibromomethane	11.61	93	119356	25.94	ug/L		94
54)	1,4-Dioxane	11.49	88	29138	607.31	ug/L		94
55)	Bromodichloromethane	11.72	83	255230	22.85	ug/L		99
56)	2-Nitropropane	12.04	41	262311	111.26	ug/L		97
57)	2-Chloroethyl vinyl ether	12.21	63	149677	60.85	ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.21	63	149677	21.44	uL/L		100
59)	4-Methyl-2-pentanone	12.34	43	677760	146.77	ug/L		95
60)	cis-1,3-Dichloropropene	12.26	75	252002	24.15	ug/L		88
63)	Toluene	12.66	91	3537590	145.07	ug/L		99
64)	Ethyl Methacrylate	12.85	69	205661	26.45	uL/:		96
65)	trans-1,3-Dichloropropene	12.97	75	234146	22.14	ug/L		94
66)	1,1,2-Trichloroethane	13.24	83	113957	24.96	ug/L		91
67)	Tetrachloroethene	13.39	166	201794	26.32	ug/L		97
68)	2-hexanone	13.41	43	470943	134.64	ug/L		94
69)	1,3-Dichloropropane	13.50	76	255636	24.91	ug/L		91
70)	Dibromochloromethane	13.81	129	177503	22.56	ug/L		98
71)	1,2-Dibromoethane	14.05	107	160382	25.01	ug/L		98
73)	Chlorobenzene	14.63	112	408270	25.23	ug/L	#	1
74)	1,1,1,2-Tetrachloroethane	14.72	131	156681	22.39	ug/L		95
75)	Ethylbenzene	14.65	91	16227050	534.39	ug/L		95
76)	m,p-Xylene	14.80	91	4577683	195.90	ug/L		95
77)	o-Xylene	15.38	91	5370226	220.93	ug/L		94
78)	Styrene	15.41	104	601896	34.82	ug/L		74
79)	Bromoform	15.81	173	114999	20.54	ug/L	#	73
81)	Isopropylbenzene	15.81	105	1401236	64.04	ug/L		99
82)	Cyclohexanone	16.14	55	21144	116.21	ug/L	#	50
84)	Bromobenzene	16.42	156	198716	25.40	ug/L		92
85)	1,1,2,2-Tetrachloroethane	16.29	83	150059	25.09	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	13363	6.03	ug/L	#	11
87)	1,2,3-Trichloropropane	16.42	110	50766	22.26	ug/L		88
88)	n-Propylbenzene	16.35	91	896395	29.88	ug/L		100
89)	2-Chlorotoluene	16.61	91	577864	25.92	ug/L		95
90)	4-Chlorotoluene	16.74	91	490064	23.53	ug/L		94
91)	1,3,5-Trimethylbenzene	16.56	105	1136181	57.24	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020729.D Vial: 31
Acq On : 14 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39646-4ms Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:45 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
92)	Pentachloroethane	17.22	167	106739	21.16	uL/L		98
93)	sec-Butylbenzene	17.35	105	605971	27.68	ug/L		99
94)	1,3-Dichlorobenzene	17.69	146	292605	23.95	ug/L		96
95)	4-Isopropyltoluene	17.50	119	422482	23.74	ug/L		99
96)	1,4-Dichlorobenzene	17.82	146	295722	23.50	ug/L		98
97)	tert-Butylbenzene	17.35	91	100557	26.32	ug/L		87
98)	n-Butylbenzene	18.13	91	5529639	320.95	ug/L	#	42
99)	1,2-Dichlorobenzene	18.41	146	260446	22.72	ug/L		96
100)	1,2,4-Trimethylbenzene	17.12	105	2849416	134.32	ug/L		98
101)	Hexachloroethane	18.73	119	65467	15.52	uL/L		92
102)	1,2-Dibromo-3-Chloropropan	19.45	75	121172	128.26	ug/L	#	17
103)	1,2,4-Trichlorobenzene	20.77	180	75319	11.68	ug/L		94
104)	Hexachlorobutadiene	20.85	225	43590	14.60	ug/L		95
105)	Naphthalene	21.23	128	13833939	1735.19	ug/L		98
106)	1,2,3-Trichlorobenzene	21.63	180	26471	6.20	ug/L		95
108)	TPH-GRO (C6-C10)	12.34	TIC	125888596m	3290.32	ug/kg		

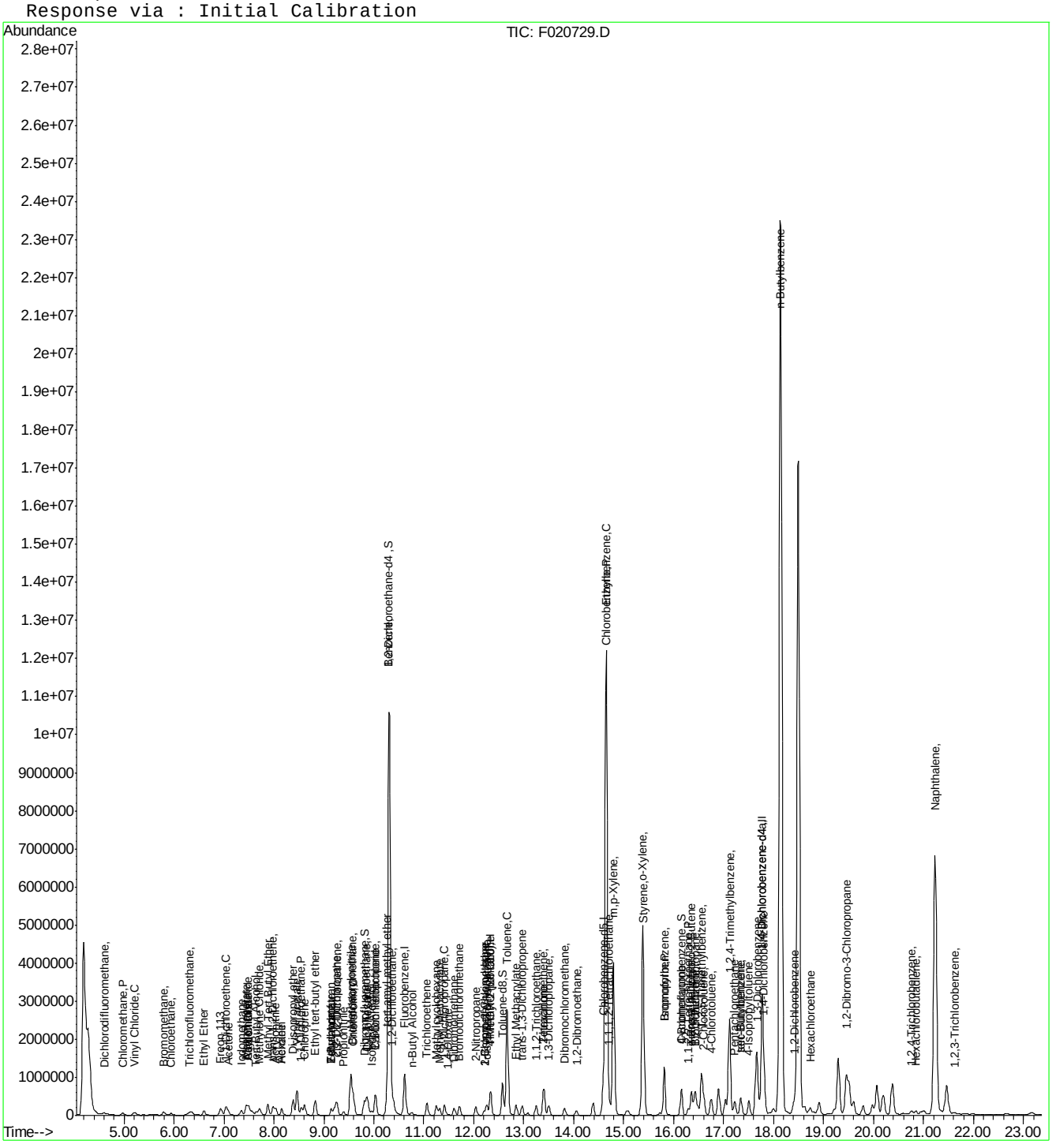
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020729.D Vial: 31
Acq On : 14 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39646-4ms Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:33 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/15/09 16:45

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020730.D Vial: 32
Acq On : 14 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39646-4msd Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:46 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1210965	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	947503	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.79	152	500717	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.79	152	500717	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	333566	46.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 92.92%			
45) 1,2-Dichloroethane-d4	10.29	65	372902	40.52	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 81.04%			
62) Toluene-d8	12.58	98	986368	45.05	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.10%			
83) 4-Bromofluorobenzene	16.15	95	421599	44.58	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.16%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.63	85	101613	14.94	ug/L	94
3) Chloromethane	4.98	50	123904	19.59	ug/L	99
4) Vinyl Chloride	5.22	62	133422	25.71	ug/L	95
5) Bromomethane	5.80	94	105299	26.50	ug/L	97
6) Chloroethane	5.95	64	92011	28.46	ug/L	98
7) Trichlorofluoromethane	6.31	101	217844	20.73	ug/L	96
8) Acrolein	8.16	56	66510	126.71	ug/L	96
9) Ethyl Ether	6.61	59	116443	26.69	ug/L	96
10) 1,1-Dichloroethene	7.05	61	241516	28.46	ug/L	92
11) Freon 113	6.94	101	159132	29.17	ug/L	96
12) Acetone	7.10	43	215001	132.48	ug/L	85
13) Iodomethane	7.35	142	291732	31.01	ug/L	91
14) Methyl acetate	7.45	43	472044	136.01	ug/L	96
15) Allyl Chloride	7.50	41	190332	30.10	uL/L	90
16) Carbon Disulfide	7.49	76	489545	29.28	ug/L	87
17) Acetonitrile	7.50	41	65923m	57.19	uL/L	
18) Methylene Chloride	7.72	49	198380	27.66	ug/L	96
19) Tert Butyl Alcohol	7.65	59	157016	310.76	ug/L	96
20) trans-1,2-Dichloroethene	7.98	61	227163	28.72	ug/L	94
21) Acrylonitrile	8.04	53	213100	150.49	ug/L	96
22) Methyl Tert Butyl Ether	7.89	73	502294	28.03	ug/L	96
23) Hexane	8.16	57	116000	26.54	ug/L	85
24) 1,1-Dichloroethane	8.56	63	278984	27.92	ug/L	98
25) Vinyl acetate	8.47	43	1587032	126.51	ug/L	95
26) Di-isopropyl ether	8.39	45	563730	28.83	ug/L	95
27) Chloroprene	8.61	53	269163	29.06	uL/L	93
28) Ethyl tert-butyl ether	8.83	59	541524	28.19	ug/L	99
29) 2,2-Dichloropropane	9.24	77	158052	19.16	ug/L	92
30) cis-1,2-Dichloroethene	9.26	96	193785	28.18	ug/L	89
31) Ethyl Acetate	9.16	43	314973	46.53	uL/L	98
32) 2-Butanone	9.16	43	654606m	96.70	ug/L	
33) Propionitrile	9.39	54	168770	325.92	uL/L	98
34) Methacrylonitrile	9.54	41	994898	218.74	uL/L	91
35) Bromochloromethane	9.59	128	100037	29.39	ug/L	94

(#) = qualifier out of range (m) = manual integration
F020730.D VF3547AP9G.M Wed Oct 14 14:48:20 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020730.D Vial: 32
Acq On : 14 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39646-4msd Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:46 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.60	83	342304	25.84 ug/L		98
37)	Tetrahydrofuran	9.15	42	28816	8.48 ug/L		89
38)	1,1,1-Trichloroethane	9.86	97	282509	24.75 ug/L		98
40)	Cyclohexane	9.87	56	216227	31.48 ug/L		89
41)	Isobutyl Alcohol	9.95	43	112055	1315.29 uL/L		74
42)	n-Butyl Alcohol	10.76	56	68142	1325.22 ug/L		81
43)	1,1-Dichloropropene	10.03	75	240953	28.33 ug/L		93
44)	Carbon Tetrachloride	10.03	117	248349	24.96 ug/L		98
46)	Benzene	10.31	78	15243541	767.18 ug/L		76
47)	1,2-Dichloroethane	10.39	62	260031	22.55 ug/L		94
48)	tert-amyl methyl ether	10.26	73	799557	44.19 ug/L		94
49)	Trichloroethene	11.06	95	187037	27.53 ug/L		97
50)	Methylcyclohexane	11.26	83	171285	26.76 ug/L		96
51)	Methyl Methacrylate	11.32	41	150852	28.42 uL/L		90
52)	1,2-Dichloropropane	11.42	63	141637	28.97 ug/L		82
53)	Dibromomethane	11.61	93	127968	27.18 ug/L		95
54)	1,4-Dioxane	11.49	88	34731	707.45 ug/L		90
55)	Bromodichloromethane	11.71	83	264782	23.16 ug/L		100
56)	2-Nitropropane	12.04	41	287775	119.29 ug/L		98
57)	2-Chloroethyl vinyl ether	12.21	63	155874	61.93 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.21	63	153553	21.50 uL/L		99
59)	4-Methyl-2-pentanone	12.33	43	740011	156.62 ug/L		96
60)	cis-1,3-Dichloropropene	12.26	75	263342	24.66 ug/L		89
63)	Toluene	12.67	91	3625237	142.66 ug/L		99
64)	Ethyl Methacrylate	12.85	69	219999	27.15 uL/:		98
65)	trans-1,3-Dichloropropene	12.97	75	241717	21.93 ug/L		92
66)	1,1,2-Trichloroethane	13.25	83	120037	25.23 ug/L		90
67)	Tetrachloroethene	13.40	166	208562	26.11 ug/L		98
68)	2-hexanone	13.41	43	515818	141.51 ug/L		93
69)	1,3-Dichloropropane	13.50	76	264542	24.73 ug/L		87
70)	Dibromochloromethane	13.82	129	187928	22.92 ug/L		99
71)	1,2-Dibromoethane	14.06	107	167649	25.09 ug/L		91
73)	Chlorobenzene	14.64	112	418231	24.80 ug/L	#	1
74)	1,1,1,2-Tetrachloroethane	14.71	131	164484	22.56 ug/L		93
75)	Ethylbenzene	14.65	91	16654586	526.30 ug/L		95
76)	m,p-Xylene	14.79	91	4686189	192.44 ug/L		96
77)	o-Xylene	15.38	91	5456547	215.41 ug/L		95
78)	Styrene	15.40	104	614231	34.09 ug/L	#	66
79)	Bromoform	15.81	173	123325	21.13 ug/L	#	76
81)	Isopropylbenzene	15.81	105	1409338	62.17 ug/L		98
82)	Cyclohexanone	16.15	55	24255	128.37 ug/L	#	49
84)	Bromobenzene	16.42	156	206349	25.46 ug/L		93
85)	1,1,2,2-Tetrachloroethane	16.29	83	159360	25.72 ug/L		96
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	12836	5.59 ug/L	#	1
87)	1,2,3-Trichloropropane	16.42	110	53498	22.65 ug/L		93
88)	n-Propylbenzene	16.36	91	903166	29.06 ug/L		99
89)	2-Chlorotoluene	16.60	91	587605	25.44 ug/L		97
90)	4-Chlorotoluene	16.75	91	492360	22.82 ug/L		95
91)	1,3,5-Trimethylbenzene	16.56	105	1159825	56.40 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020730.D Vial: 32
Acq On : 14 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39646-4msd Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:57:46 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

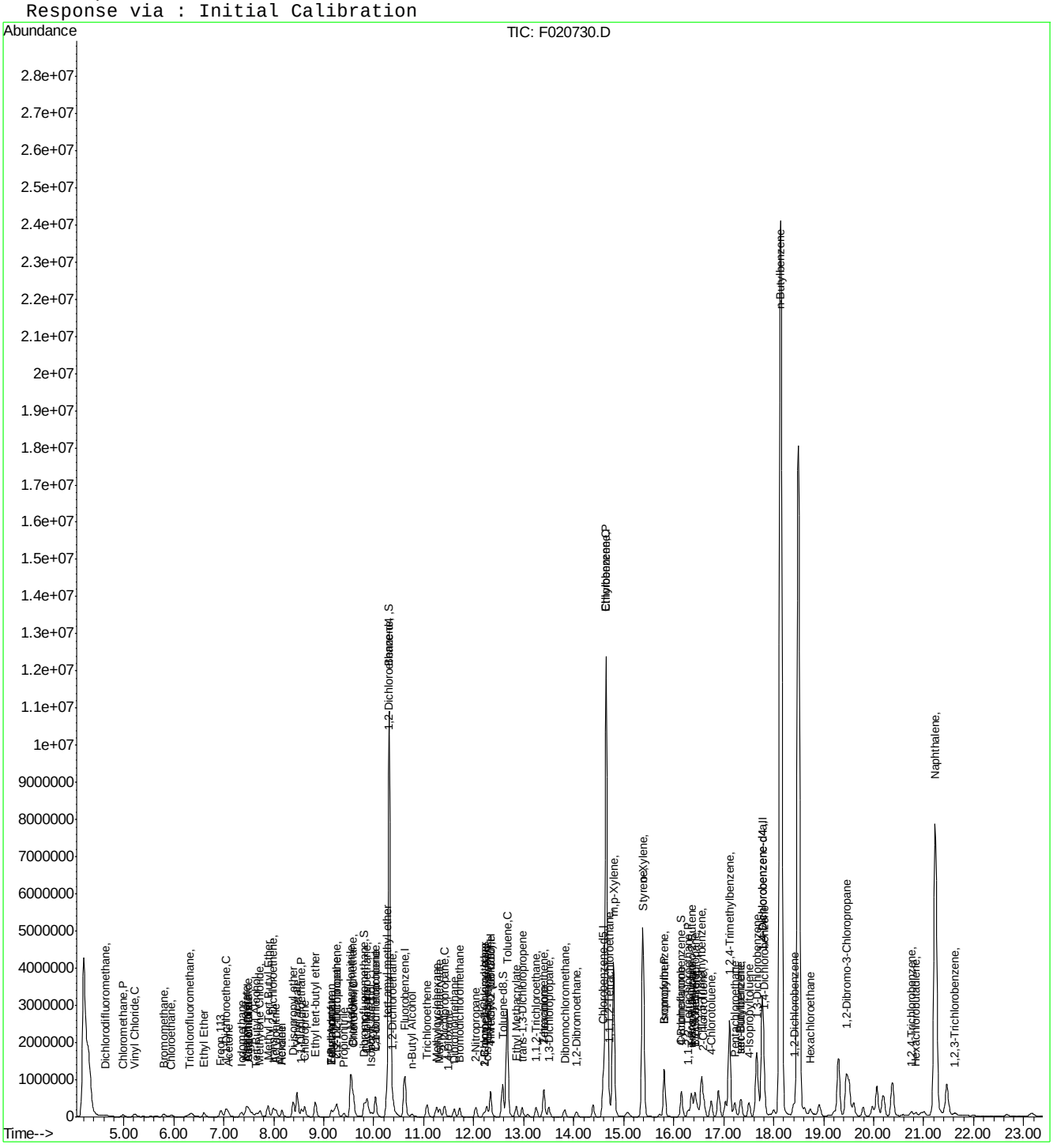
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
92)	Pentachloroethane	17.22	167	109249	20.90	uL/L		99
93)	sec-Butylbenzene	17.34	105	604484	26.66	ug/L		99
94)	1,3-Dichlorobenzene	17.69	146	299842	23.69	ug/L		97
95)	4-Isopropyltoluene	17.51	119	423360	22.96	ug/L		99
96)	1,4-Dichlorobenzene	17.81	146	305417	23.42	ug/L		96
97)	tert-Butylbenzene	17.34	91	104398	26.38	ug/L		85
98)	n-Butylbenzene	18.14	91	5631139	315.48	ug/L	#	41
99)	1,2-Dichlorobenzene	18.40	146	268272	22.58	ug/L		96
100)	1,2,4-Trimethylbenzene	17.12	105	2909747	132.39	ug/L		99
101)	Hexachloroethane	18.73	119	66579	15.24	uL/L		87
102)	1,2-Dibromo-3-Chloropropan	19.45	75	127789	130.62	ug/L	#	21
103)	1,2,4-Trichlorobenzene	20.77	180	91489	14.06	ug/L		98
104)	Hexachlorobutadiene	20.86	225	48727	16.06	ug/L		94
105)	Naphthalene	21.23	128	15882875	1923.13	ug/L		99
106)	1,2,3-Trichlorobenzene	21.63	180	51652	14.14	ug/L		95
108)	TPH-GRO (C6-C10)	12.34	TIC	137241005m	3421.99	ug/kg		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020730.D VF3547AP9G.M Wed Oct 14 14:48:20 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020730.D Vial: 32
Acq On : 14 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39646-4msd Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:34 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003991.D
Acq On : 14 Oct 2009 2:21 pm
Operator : AnjanaP
Sample : t39308-1ms
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 08:50:51 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1231827	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.549	117	1102693	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	571645	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	571645	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	325496	51.91	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 103.82%			
39) 1,2-Dichloroethane-d4	10.122	65	358834	52.87	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 105.74%			
54) Toluene-d8	12.008	98	1119076	49.18	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 98.36%			
74) 4-Bromofluorobenzene	14.746	95	377489	42.58	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 85.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	90802	18.60	ug/l	99
3) Chloromethane	4.788	50	93421	20.55	ug/l	99
4) Vinyl Chloride	5.046	62	137382	30.36	ug/l	98
5) Bromomethane	5.682	94	90743	25.40	ug/l	96
6) Chloroethane	5.844	64	67031	24.72	ug/l	100
7) Trichlorofluoromethane	6.264	101	205820	27.00	ug/l	98
8) Ethyl Ether	6.620	59	101705	23.32	ug/l	98
9) Acrolein	6.943	56	2606	54.94	ug/l	95
10) 1,1-Dichloroethene	7.051	61	3505038	448.21	ug/l	99
11) Freon 113	6.965	101	137855	27.25	ug/l	96
12) Acetone	7.126	43	174935	136.16	ug/l	98
13) Iodomethane	7.331	142	227362	22.74	ug/l	96
14) Methyl Acetate	7.504	43	377787	112.33	ug/l	97
15) Carbon Disulfide	7.439	76	424483	24.78	ug/l	99
16) Methylene Chloride	7.730	49	177001	22.47	ug/l	99
17) Tert Butyl Alcohol	7.504	59	33632	221.96	ug/l	97
18) trans-1,2-Dichloroethene	8.010	61	196508	25.19	ug/l	98
19) Acrylonitrile	8.075	53	204403	125.23	ug/l	99
20) Methyl Tert Butyl Ether	7.935	73	297920	18.58	ug/l	94
21) Hexane	8.204	57	59852	18.34	ug/l	94
22) 1,1-Dichloroethane	8.560	63	651301	63.02	ug/l	99
23) Vinyl Acetate	8.495	43	1146963	116.03	ug/l	99
24) Di-isopropyl ether	8.441	45	306622	19.54	ug/l	93
25) Ethyl tert-butyl ether	8.851	59	313346	18.87	ug/l	98
26) 2,2-Dichloropropane	9.206	77	196520	27.75	ug/l	84
27) cis-1,2-Dichloroethene	9.217	96	371250	57.77	ug/l	98
28) 2-Butanone	9.142	43	229953	41.58	ug/l	100
29) Bromochloromethane	9.497	128	101628	26.66	ug/l #	92
30) Chloroform	9.519	83	304613	26.58	ug/l	99
31) Tetrahydrofuran	9.487	42	57066	43.69	ug/l #	1
32) 1,1,1-Trichloroethane	9.745	97	225495	27.72	ug/l	98
34) Cyclohexane	9.756	56	120746	21.30	ug/l	97
35) n-Butyl Alcohol	10.553	43	24131	445.28	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003991.D
Acq On : 14 Oct 2009 2:21 pm
Operator : AnjanaP
Sample : t39308-1ms
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 08:50:51 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	188525	25.02 ug/l	97
37) Isobutyl Alcohol	9.864	43	76372	485.43 ug/L #	92
38) Carbon Tetrachloride	9.885	117	204990	28.86 ug/l	99
40) Benzene	10.133	78	665830	27.28 ug/l	89
41) 1,2-Dichloroethane	10.198	62	230482	28.76 ug/l	96
42) tert-amyl methyl ether	10.112	73	325394	19.68 ug/l	91
43) Trichloroethene	10.769	95	1491768	252.86 ug/l	99
44) Methylcyclohexane	10.931	83	102122	20.49 ug/l	96
45) 1,2-Dichloropropane	11.071	63	144388	25.00 ug/l	96
46) Dibromomethane	11.211	93	100998	25.20 ug/l	98
47) 1,4-Dioxane	11.135	88	24825	395.64 ug/l	96
48) Bromodichloromethane	11.308	83	199800	25.40 ug/l	100
49) 2-Nitropropane	11.588	41	131247	106.84 ug/l	92
50) 2-Chloroethyl vinyl ether	11.696	63	150749	36.48 ug/l #	26
51) 4-Methyl-2-pentanone	11.836	43	501364	120.88 ug/l	98
52) cis-1,3-Dichloropropene	11.760	75	207580	20.27 ug/l	97
55) Toluene	12.073	91	647189	22.15 ug/l	99
56) trans-1,3-Dichloropropene	12.310	75	206479	21.82 ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	125204	22.24 ug/l	98
58) Tetrachloroethene	12.633	166	157425	22.33 ug/l	99
59) 2-hexanone	12.666	43	329453	101.94 ug/l	99
60) 1,3-Dichloropropane	12.720	76	247264	23.33 ug/l	97
61) Dibromochloromethane	12.957	129	161484	22.28 ug/l	99
62) 1,2-Dibromoethane	13.129	107	137953	21.83 ug/l	96
63) 1-Chlorohexane	13.409	91	83122	16.40 ug/l	90
64) Chlorobenzene	13.571	112	477314	23.18 ug/l	97
65) 1,1,1,2-Tetrachloroethane	13.636	131	170022	24.17 ug/l	98
66) Ethylbenzene	13.593	91	640493	23.12 ug/l	98
67) m,p-Xylene	13.711	91	982949	43.55 ug/l	100
68) o-Xylene	14.153	91	440228	19.15 ug/l	95
69) Styrene	14.164	104	395715	19.26 ug/l	99
70) Bromoform	14.465	173	114547	22.84 ug/kg	98
72) Isopropylbenzene	14.487	105	370103	17.67 ug/l	100
73) Cyclohexanone	14.735	55	15700	129.35 ug/l #	13
75) Bromobenzene	14.950	156	216609	22.39 ug/l	100
76) 1,1,2,2-Tetrachloroethane	14.853	83	196532	22.70 ug/l	99
77) Trans-1,4-Dichloro-2-b...	14.907	53	46809	20.68 ug/l	92
78) 1,2,3-Trichloropropane	14.950	110	55696	21.14 ug/l	99
79) n-Propylbenzene	14.907	91	529056	19.14 ug/l	100
80) 2-Chlorotoluene	15.091	91	471954	21.00 ug/l	98
81) 4-Chlorotoluene	15.198	91	394753	19.02 ug/l	99
82) 1,3,5-Trimethylbenzene	15.069	105	356462	17.71 ug/l	99
83) sec-Butylbenzene	15.651	105	360346	16.51 ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	307609	21.00 ug/l	99
85) 4-Isopropyltoluene	15.770	119	295856	19.16 ug/l	99
86) 1,4-Dichlorobenzene	15.985	146	349511	20.73 ug/l	99
87) tert-Butylbenzene	15.425	91	164327	16.58 ug/l	98
88) n-Butylbenzene	16.211	91	259353	15.93 ug/l	96
89) 1,2-Dichlorobenzene	16.416	146	299168	20.29 ug/l	99
90) 1,2,4-Trimethylbenzene	15.479	105	417167	18.98 ug/l	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003991.D
Acq On : 14 Oct 2009 2:21 pm
Operator : AnjanaP
Sample : t39308-1ms
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 08:50:51 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

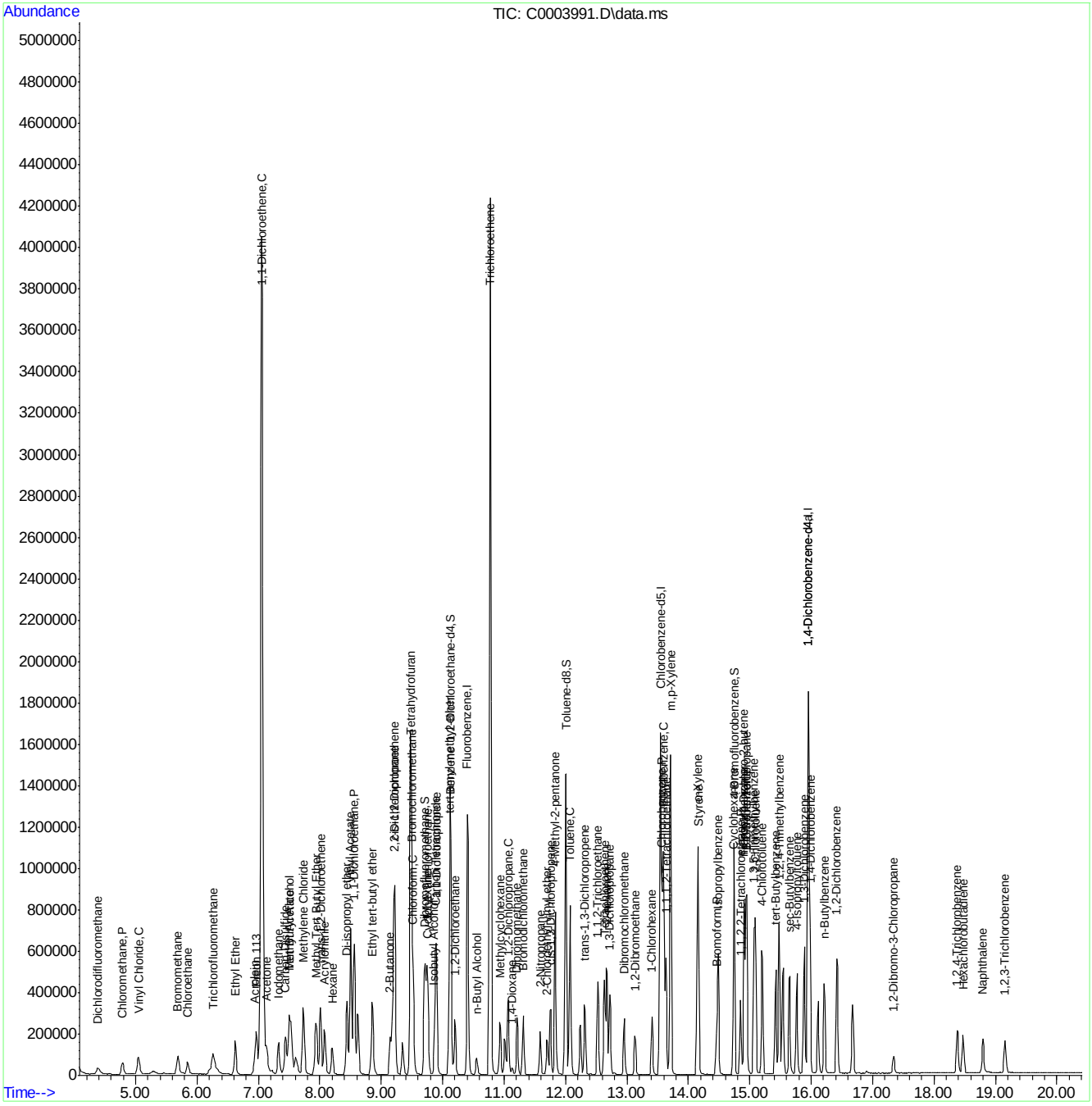
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	25515	22.98 ug/l	97
92) 1,2,4-Trichlorobenzene	18.378	180	99998	15.48 ug/l	99
93) Hexachlorobutadiene	18.474	225	57619	15.55 ug/l	97
94) Naphthalene	18.798	128	183980	14.64 ug/l	100
95) 1,2,3-Trichlorobenzene	19.153	180	80900	16.80 ug/l	98
97) TPH-GRO (C6-C10)	11.619	TIC	59550153m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003991.D
Acq On : 14 Oct 2009 2:21 pm
Operator : AnjanaP
Sample : t39308-1ms
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 08:50:51 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003992.D
Acq On : 14 Oct 2009 2:50 pm
Operator : AnjanaP
Sample : t39308-1msd
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 15 08:50:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1256212	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.539	117	1107442	50.00	ug/l	-0.01
71) 1,4-Dichlorobenzene-d4	15.953	152	574627	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	574627	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	326323	51.03	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 102.06%			
39) 1,2-Dichloroethane-d4	10.123	65	359351	51.92	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 103.84%			
54) Toluene-d8	11.998	98	1124182	49.19	ug/l	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 98.38%			
74) 4-Bromofluorobenzene	14.746	95	381681	42.83	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 85.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	86807	17.44	ug/l	91
3) Chloromethane	4.777	50	93785	20.23	ug/l	99
4) Vinyl Chloride	5.047	62	140901	30.53	ug/l	95
5) Bromomethane	5.682	94	89703	24.46	ug/l	95
6) Chloroethane	5.844	64	68144	24.63	ug/l	97
7) Trichlorofluoromethane	6.264	101	191262	24.60	ug/l	97
8) Ethyl Ether	6.620	59	112647	25.33	ug/l	99
9) Acrolein	6.954	56	2131	47.03	ug/l	94
10) 1,1-Dichloroethene	7.051	61	3390443	425.14	ug/l	99
11) Freon 113	6.965	101	135044	26.17	ug/l	96
12) Acetone	7.127	43	189715	144.94	ug/l	95
13) Iodomethane	7.331	142	234091	22.96	ug/l	99
14) Methyl Acetate	7.504	43	407363	118.77	ug/l	98
15) Carbon Disulfide	7.439	76	413005	23.65	ug/l	98
16) Methylene Chloride	7.730	49	178730	22.22	ug/l	99
17) Tert Butyl Alcohol	7.493	59	37603	243.35	ug/l #	84
18) trans-1,2-Dichloroethene	8.010	61	195424	24.57	ug/l	99
19) Acrylonitrile	8.075	53	215854	129.68	ug/l	97
20) Methyl Tert Butyl Ether	7.935	73	325313	19.79	ug/l	94
21) Hexane	8.204	57	60032	18.04	ug/l	92
22) 1,1-Dichloroethane	8.560	63	618923	58.72	ug/l	98
23) Vinyl Acetate	8.495	43	1190125	118.22	ug/l	100
24) Di-isopropyl ether	8.441	45	320109	19.99	ug/l	94
25) Ethyl tert-butyl ether	8.851	59	329818	19.44	ug/l	98
26) 2,2-Dichloropropane	9.206	77	191892	26.57	ug/l	89
27) cis-1,2-Dichloroethene	9.217	96	359667	54.88	ug/l	98
28) 2-Butanone	9.142	43	258753	45.88	ug/l	100
29) Bromochloromethane	9.497	128	99613	25.62	ug/l #	91
30) Chloroform	9.519	83	291725	24.96	ug/l	100
31) Tetrahydrofuran	9.487	42	60211	45.22	ug/l #	1
32) 1,1,1-Trichloroethane	9.735	97	212386	25.60	ug/l	98
34) Cyclohexane	9.756	56	120999	20.94	ug/l	98
35) n-Butyl Alcohol	10.554	43	26064	469.30	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003992.D
Acq On : 14 Oct 2009 2:50 pm
Operator : AnjanaP
Sample : t39308-1msd
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 15 08:50:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	9.896	75	181782	23.65	ug/l		95
37) Isobutyl Alcohol	9.864	43	83277	517.75	ug/L		95
38) Carbon Tetrachloride	9.885	117	193835	26.76	ug/l		98
40) Benzene	10.133	78	635865	25.55	ug/l		88
41) 1,2-Dichloroethane	10.198	62	224479	27.47	ug/l		98
42) tert-amyl methyl ether	10.112	73	338141	20.04	ug/l		92
43) Trichloroethene	10.769	95	1410985	234.53	ug/l		98
44) Methylcyclohexane	10.931	83	97909	19.36	ug/l		96
45) 1,2-Dichloropropane	11.071	63	140163	23.79	ug/l		94
46) Dibromomethane	11.211	93	100482	24.59	ug/l		97
47) 1,4-Dioxane	11.136	88	26740	415.24	ug/l		95
48) Bromodichloromethane	11.308	83	196660	24.52	ug/l		99
49) 2-Nitropropane	11.588	41	137333	109.21	ug/l		96
50) 2-Chloroethyl vinyl ether	11.696	63	152610	36.16	ug/l	#	25
51) 4-Methyl-2-pentanone	11.836	43	542385	128.50	ug/l		98
52) cis-1,3-Dichloropropene	11.750	75	208364	19.96	ug/l		95
55) Toluene	12.073	91	624754	21.27	ug/l		98
56) trans-1,3-Dichloropropene	12.310	75	210948	22.18	ug/l		98
57) 1,1,2-Trichloroethane	12.526	83	125979	22.28	ug/l		98
58) Tetrachloroethene	12.634	166	152100	21.48	ug/l		99
59) 2-hexanone	12.666	43	374761	115.30	ug/l		97
60) 1,3-Dichloropropane	12.720	76	245757	23.09	ug/l		98
61) Dibromochloromethane	12.957	129	159326	21.92	ug/l		99
62) 1,2-Dibromoethane	13.129	107	137584	21.68	ug/l		98
63) 1-Chlorohexane	13.409	91	83309	16.38	ug/l		88
64) Chlorobenzene	13.571	112	457896	22.14	ug/l		96
65) 1,1,1,2-Tetrachloroethane	13.636	131	164387	23.27	ug/l		98
66) Ethylbenzene	13.593	91	621240	22.33	ug/l		100
67) m,p-Xylene	13.711	91	952689	41.97	ug/l		99
68) o-Xylene	14.153	91	435582	18.87	ug/l		97
69) Styrene	14.164	104	386410	18.73	ug/l		99
70) Bromoform	14.466	173	113787	22.62	ug/kg		97
72) Isopropylbenzene	14.487	105	369721	17.56	ug/l		99
73) Cyclohexanone	14.735	55	15693	128.77	ug/l	#	24
75) Bromobenzene	14.951	156	214816	22.08	ug/l		96
76) 1,1,2,2-Tetrachloroethane	14.854	83	201645	23.17	ug/l		99
77) Trans-1,4-Dichloro-2-b...	14.907	53	49993	21.94	ug/l		91
78) 1,2,3-Trichloropropane	14.951	110	58387	22.05	ug/l		96
79) n-Propylbenzene	14.907	91	521266	18.76	ug/l		99
80) 2-Chlorotoluene	15.091	91	462084	20.44	ug/l		99
81) 4-Chlorotoluene	15.198	91	390640	18.72	ug/l		97
82) 1,3,5-Trimethylbenzene	15.069	105	353946	17.50	ug/l		99
83) sec-Butylbenzene	15.651	105	369280	16.81	ug/l		96
84) 1,3-Dichlorobenzene	15.888	146	305995	20.79	ug/l		98
85) 4-Isopropyltoluene	15.770	119	304125	19.59	ug/l		98
86) 1,4-Dichlorobenzene	15.985	146	347023	20.48	ug/l		99
87) tert-Butylbenzene	15.425	91	167056	16.76	ug/l		97
88) n-Butylbenzene	16.211	91	270105	16.49	ug/l		99
89) 1,2-Dichlorobenzene	16.416	146	301792	20.36	ug/l		99
90) 1,2,4-Trimethylbenzene	15.479	105	414071	18.75	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003992.D
Acq On : 14 Oct 2009 2:50 pm
Operator : AnjanaP
Sample : t39308-1msd
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 15 08:50:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

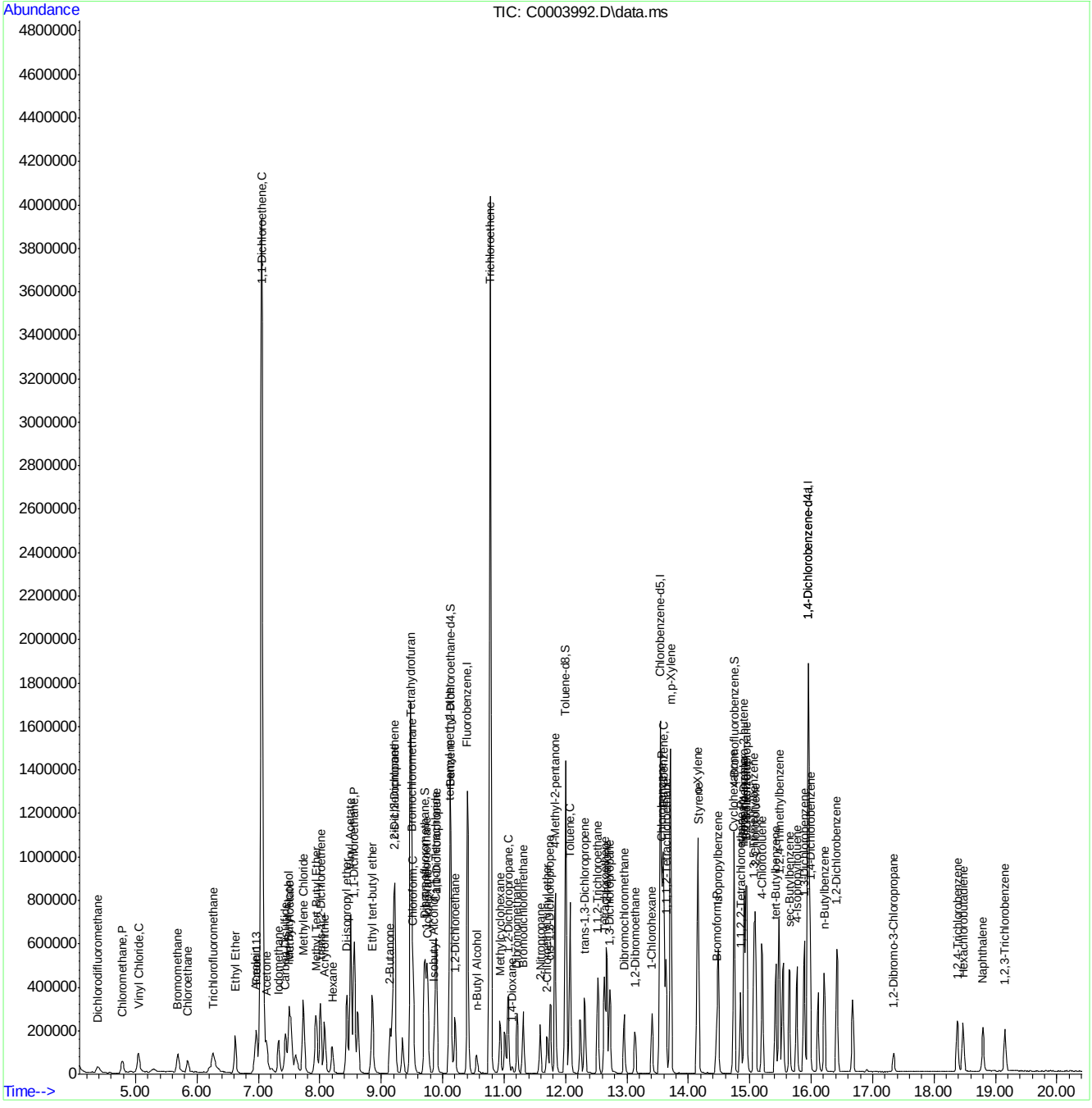
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	27030	24.22 ug/l	96
92) 1,2,4-Trichlorobenzene	18.388	180	111419	17.16 ug/l	96
93) Hexachlorobutadiene	18.475	225	70975	19.15 ug/l	99
94) Naphthalene	18.798	128	227973	17.24 ug/l	99
95) 1,2,3-Trichlorobenzene	19.154	180	99629	20.58 ug/l	95
97) TPH-GRO (C6-C10)	11.619	TIC	59448633m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003992.D
Acq On : 14 Oct 2009 2:50 pm
Operator : AnjanaP
Sample : t39308-1msd
Misc : ms7110,VC0175,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 15 08:50:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 18:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020764.D Vial: 19
Acq On : 14 Oct 2009 7:01 pm Operator: AnjanaP
Sample : t39646-6ms Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:03 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	925486	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	767573	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	444834	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	444834	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.83	113	282747	51.53	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 103.06%			
45) 1,2-Dichloroethane-d4	10.31	65	357840	51.40	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 102.80%			
62) Toluene-d8	12.59	98	813539	45.83	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.66%			
83) 4-Bromofluorobenzene	16.17	95	356264	42.44	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 84.88%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.64	85	84169	16.19	ug/L	100
3) Chloromethane	5.01	50	70851	14.33	ug/L	99
4) Vinyl Chloride	5.23	62	81487	20.29	ug/L	91
5) Bromomethane	5.83	94	75154	24.61	ug/L	98
6) Chloroethane	5.98	64	59674	24.15	ug/L	98
7) Trichlorofluoromethane	6.34	101	170002	21.17	ug/L	100
8) Acrolein	8.18	56	46046	114.78	ug/L	97
9) Ethyl Ether	6.63	59	82021	24.60	ug/L	96
10) 1,1-Dichloroethene	7.07	61	170178	26.24	ug/L	97
11) Freon 113	6.96	101	113844	27.31	ug/L	98
12) Acetone	7.11	43	150511	120.43	ug/L	99
13) Iodomethane	7.38	142	207952	28.93	ug/L	95
14) Methyl acetate	7.47	43	308456	116.60	ug/L	97
15) Allyl Chloride	7.52	41	140172	28.89	uL/L	94
16) Carbon Disulfide	7.52	76	324289	25.38	ug/L	93
17) Acetonitrile	7.52	41	79818m	94.77	uL/L	
18) Methylene Chloride	7.75	49	130115	23.64	ug/L	94
19) Tert Butyl Alcohol	7.67	59	98636	255.43	ug/L	94
20) trans-1,2-Dichloroethene	8.01	61	158145	26.16	ug/L	96
21) Acrylonitrile	8.07	53	127471	117.79	ug/L	94
22) Methyl Tert Butyl Ether	7.91	73	344430	25.15	ug/L	97
23) Hexane	8.18	57	77342	23.16	ug/L	91
24) 1,1-Dichloroethane	8.58	63	191977	25.14	ug/L	96
25) Vinyl acetate	8.49	43	1104311	115.18	ug/L	98
26) Di-isopropyl ether	8.41	45	354771	23.74	ug/L	98
27) Chloroprene	8.64	53	207781	29.35	uL/L	95
28) Ethyl tert-butyl ether	8.85	59	364529	24.83	ug/L	98
29) 2,2-Dichloropropane	9.27	77	141610	22.46	ug/L	95
30) cis-1,2-Dichloroethene	9.29	96	131639	25.05	ug/L	90
31) Ethyl Acetate	9.17	43	222062	42.92	uL/L	99
32) 2-Butanone	9.17	43	427276m	82.59	ug/L	
33) Propionitrile	9.41	54	104819	264.86	uL/L	98
34) Methacrylonitrile	9.56	41	657668	189.19	uL/L	90
35) Bromochloromethane	9.61	128	69603	26.76	ug/L	90

(#) = qualifier out of range (m) = manual integration
F020764.D VF3547AP9G.M Thu Oct 15 09:38:04 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020764.D Vial: 19
Acq On : 14 Oct 2009 7:01 pm Operator: AnjanaP
Sample : t39646-6ms Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:03 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	251160	24.81	ug/L		98
37)	Tetrahydrofuran	9.18	42	21734	8.35	ug/L		93
38)	1,1,1-Trichloroethane	9.88	97	216659	24.83	ug/L		98
40)	Cyclohexane	9.90	56	139292	26.53	ug/L		95
41)	Isobutyl Alcohol	9.98	43	66381	1025.03	uL/L		89
42)	n-Butyl Alcohol	10.78	56	40133	1030.98	ug/L		80
43)	1,1-Dichloropropene	10.05	75	170375	26.21	ug/L		87
44)	Carbon Tetrachloride	10.05	117	192960	25.38	ug/L		98
46)	Benzene	10.33	78	649436	42.77	ug/L		92
47)	1,2-Dichloroethane	10.41	62	209970	23.83	ug/L		97
48)	tert-amyl methyl ether	10.28	73	360745	26.09	ug/L		97
49)	Trichloroethene	11.09	95	133061	25.55	ug/L		96
50)	Methylcyclohexane	11.27	83	123699	25.29	ug/L		95
51)	Methyl Methacrylate	11.33	41	108324	26.71	uL/L		93
52)	1,2-Dichloropropane	11.44	63	92816	24.84	ug/L		90
53)	Dibromomethane	11.63	93	91954	25.55	ug/L		97
54)	1,4-Dioxane	11.51	88	19969	532.22	ug/L		93
55)	Bromodichloromethane	11.74	83	200332	22.93	ug/L		98
56)	2-Nitropropane	12.06	41	213757	115.94	ug/L		98
57)	2-Chloroethyl vinyl ether	12.23	63	104481	54.32	ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.23	63	103316	18.93	uL/L		98
59)	4-Methyl-2-pentanone	12.35	43	448897	124.31	ug/L		98
60)	cis-1,3-Dichloropropene	12.28	75	193356	23.69	ug/L		93
63)	Toluene	12.68	91	468760	22.77	ug/L		99
64)	Ethyl Methacrylate	12.87	69	147002	22.39	uL/:		96
65)	trans-1,3-Dichloropropene	12.99	75	192149	21.52	ug/L		96
66)	1,1,2-Trichloroethane	13.26	83	84194	21.85	ug/L		91
67)	Tetrachloroethene	13.41	166	149373	23.08	ug/L		98
68)	2-hexanone	13.43	43	319002	108.03	ug/L		94
69)	1,3-Dichloropropane	13.52	76	187196	21.60	ug/L		92
70)	Dibromochloromethane	13.83	129	140371	21.13	ug/L		98
71)	1,2-Dibromoethane	14.07	107	119564	22.09	ug/L		98
72)	1-Chlorohexane	14.40	91	157405	21.81	ug/L		89
73)	Chlorobenzene	14.65	112	305319	22.35	ug/L		96
74)	1,1,1,2-Tetrachloroethane	14.73	131	126091	21.34	ug/L		96
75)	Ethylbenzene	14.67	91	648870	25.31	ug/L		97
76)	m,p-Xylene	14.82	91	866743	43.94	ug/L		97
77)	o-Xylene	15.40	91	460593	22.45	ug/L		97
78)	Styrene	15.42	104	310651	21.29	ug/L		96
79)	Bromoform	15.82	173	97855	20.70	ug/L		98
81)	Isopropylbenzene	15.83	105	446560	22.17	ug/L		98
82)	Cyclohexanone	16.17	55	14728	88.64	ug/L	#	18
84)	Bromobenzene	16.44	156	153921	21.38	ug/L		99
85)	1,1,2,2-Tetrachloroethane	16.30	83	113921	20.69	ug/L		100
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	26285	12.90	ug/L	#	83
87)	1,2,3-Trichloropropane	16.43	110	39818	18.97	ug/L		88
88)	n-Propylbenzene	16.37	91	559762	20.27	ug/L		99
89)	2-Chlorotoluene	16.62	91	412432	20.10	ug/L		99
90)	4-Chlorotoluene	16.77	91	380261	19.84	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020764.D Vial: 19
Acq On : 14 Oct 2009 7:01 pm Operator: AnjanaP
Sample : t39646-6ms Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:03 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

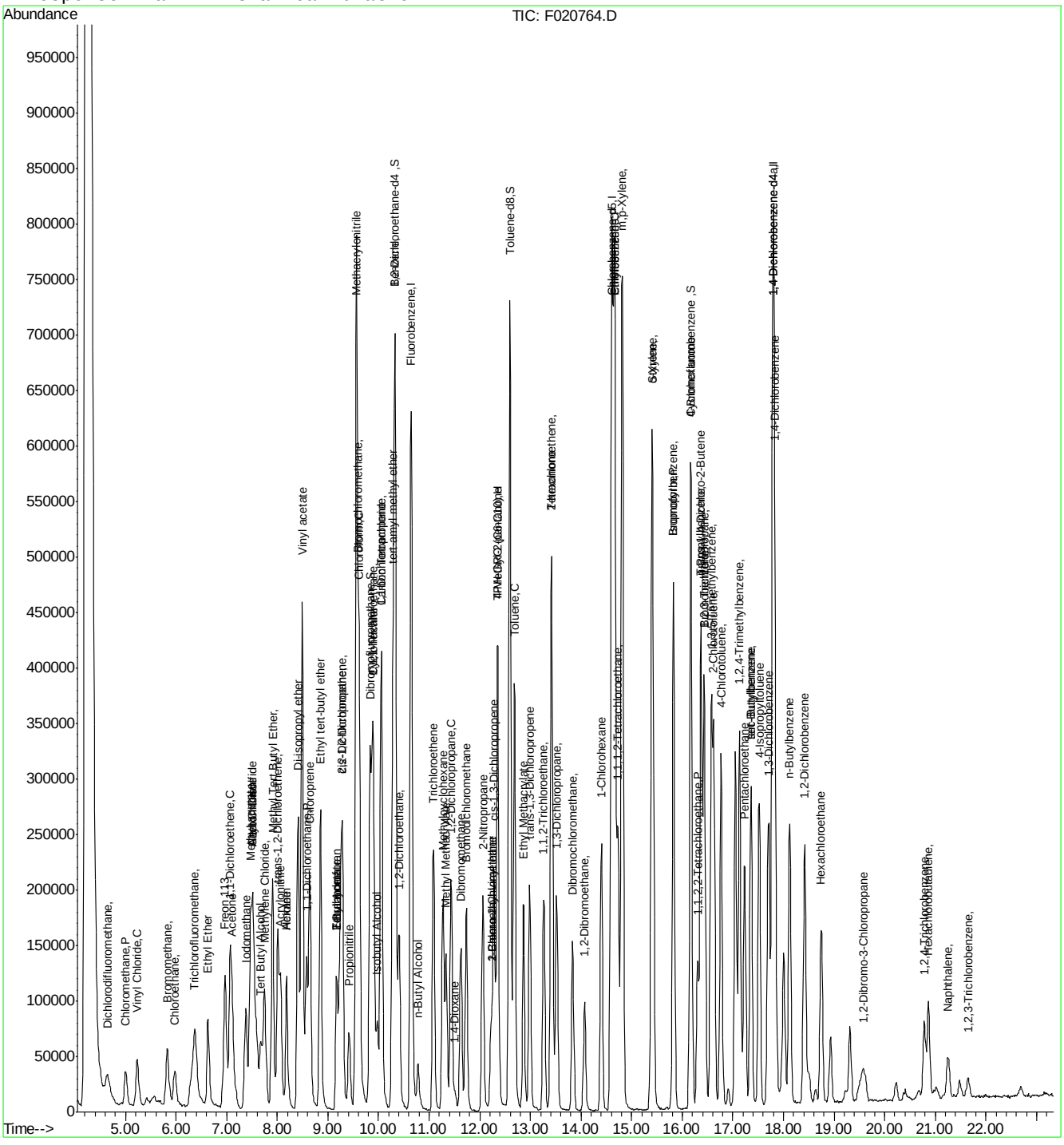
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	368009	20.14	ug/L	99
92)	Pentachloroethane	17.23	167	91576	19.72	uL/L	98
93)	sec-Butylbenzene	17.36	105	395436	19.63	ug/L	97
94)	1,3-Dichlorobenzene	17.71	146	234620	20.86	ug/L	96
95)	4-Isopropyltoluene	17.51	119	313811	19.16	ug/L	100
96)	1,4-Dichlorobenzene	17.84	146	246744	21.30	ug/L	99
97)	tert-Butylbenzene	17.36	91	69185	19.42	ug/L	85
98)	n-Butylbenzene	18.12	91	284596	17.95	ug/L	98
99)	1,2-Dichlorobenzene	18.42	146	215309	20.40	ug/L	97
100)	1,2,4-Trimethylbenzene	17.13	105	385538	19.75	ug/L	98
101)	Hexachloroethane	18.74	119	70404	18.14	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.58	75	16187	15.73	ug/L	90
103)	1,2,4-Trichlorobenzene	20.78	180	53207	8.46	ug/L	97
104)	Hexachlorobutadiene	20.87	225	39302	14.22	ug/L	99
105)	Naphthalene	21.24	128	63253	6.54	ug/L	100
106)	1,2,3-Trichlorobenzene	21.66	180	15966	3.10	ug/L	97
108)	TPH-GRO (C6-C10)	12.34	TIC	40351019m	1648.40	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020764.D Vial: 19
Acq On : 14 Oct 2009 7:01 pm Operator: AnjanaP
Sample : t39646-6ms Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:29 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 18:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020765.D Vial: 20
Acq On : 14 Oct 2009 7:31 pm Operator: AnjanaP
Sample : t39646-6msd Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:05 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	957713	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	757812	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	443125	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	443125	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.83	113	284648	50.13	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.26%			
45) 1,2-Dichloroethane-d4	10.31	65	355031	49.20	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.40%			
62) Toluene-d8	12.59	98	815374	46.48	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.96%			
83) 4-Bromofluorobenzene	16.17	95	360143	43.05	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 86.10%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.63	85	82087	15.26	ug/L	98
3) Chloromethane	4.99	50	74998	14.68	ug/L	98
4) Vinyl Chloride	5.22	62	84634	20.37	ug/L	97
5) Bromomethane	5.81	94	76357	24.13	ug/L	98
6) Chloroethane	5.96	64	60180	23.53	ug/L	97
7) Trichlorofluoromethane	6.33	101	171143	20.59	ug/L	94
8) Acrolein	8.17	56	46627	112.32	ug/L	99
9) Ethyl Ether	6.62	59	82316	23.86	ug/L	96
10) 1,1-Dichloroethene	7.06	61	169281	25.22	ug/L	93
11) Freon 113	6.95	101	116665	27.04	ug/L	93
12) Acetone	7.11	43	149391	115.06	ug/L	96
13) Iodomethane	7.37	142	209709	28.19	ug/L	94
14) Methyl acetate	7.47	43	305176	111.57	ug/L	97
15) Allyl Chloride	7.52	41	142085	28.23	uL/L	86
16) Carbon Disulfide	7.51	76	329604	24.93	ug/L	92
17) Acetonitrile	7.52	41	49173m	53.37	uL/L	
18) Methylene Chloride	7.73	49	132497	23.26	ug/L	97
19) Tert Butyl Alcohol	7.66	59	92712	232.01	ug/L	91
20) trans-1,2-Dichloroethene	8.00	61	156890	25.08	ug/L	94
21) Acrylonitrile	8.06	53	134082	119.73	ug/L	90
22) Methyl Tert Butyl Ether	7.90	73	340633	24.03	ug/L	98
23) Hexane	8.17	57	79250	22.93	ug/L	92
24) 1,1-Dichloroethane	8.57	63	193176	24.44	ug/L	98
25) Vinyl acetate	8.48	43	1093479	110.21	ug/L	98
26) Di-isopropyl ether	8.40	45	363944	23.54	ug/L	96
27) Chloroprene	8.63	53	208184	28.42	uL/L	96
28) Ethyl tert-butyl ether	8.84	59	370976	24.42	ug/L	98
29) 2,2-Dichloropropane	9.26	77	138368	21.21	ug/L	95
30) cis-1,2-Dichloroethene	9.28	96	134248	24.69	ug/L	86
31) Ethyl Acetate	9.17	43	230208	43.00	uL/L	99
32) 2-Butanone	9.17	43	414312m	77.39	ug/L	
33) Propionitrile	9.41	54	102218	249.60	uL/L	98
34) Methacrylonitrile	9.55	41	649556	180.57	uL/L	90
35) Bromochloromethane	9.60	128	69809	25.93	ug/L	93

(#) = qualifier out of range (m) = manual integration
F020765.D VF3547AP9G.M Thu Oct 15 09:38:11 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020765.D Vial: 20
Acq On : 14 Oct 2009 7:31 pm Operator: AnjanaP
Sample : t39646-6msd Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:05 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.61	83	249640	23.83 ug/L		98
37)	Tetrahydrofuran	9.17	42	20093	7.29 ug/L		97
38)	1,1,1-Trichloroethane	9.87	97	212766	23.57 ug/L		97
40)	Cyclohexane	9.89	56	137088	25.23 ug/L		95
41)	Isobutyl Alcohol	9.98	43	59377	889.35 uL/L		81
42)	n-Butyl Alcohol	10.78	56	36883	920.35 ug/L		79
43)	1,1-Dichloropropene	10.04	75	169871	25.25 ug/L		94
44)	Carbon Tetrachloride	10.05	117	187892	23.88 ug/L		98
46)	Benzene	10.33	78	663188	42.20 ug/L		90
47)	1,2-Dichloroethane	10.40	62	209517	22.98 ug/L		98
48)	tert-amyl methyl ether	10.27	73	357890	25.01 ug/L		97
49)	Trichloroethene	11.08	95	133524	24.74 ug/L		98
50)	Methylcyclohexane	11.27	83	123264	24.35 ug/L		95
51)	Methyl Methacrylate	11.33	41	104954	25.00 uL/L		98
52)	1,2-Dichloropropane	11.43	63	96083	24.85 ug/L		91
53)	Dibromomethane	11.62	93	89320	23.99 ug/L		99
54)	1,4-Dioxane	11.50	88	19043	490.46 ug/L		87
55)	Bromodichloromethane	11.74	83	195412	21.62 ug/L		98
56)	2-Nitropropane	12.05	41	201174	105.45 ug/L		96
57)	2-Chloroethyl vinyl ether	12.22	63	101644	51.06 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.22	63	100304	17.76 uL/L		99
59)	4-Methyl-2-pentanone	12.35	43	433932	116.12 ug/L		97
60)	cis-1,3-Dichloropropene	12.28	75	196824	23.30 ug/L		88
63)	Toluene	12.68	91	474605	23.35 ug/L		100
64)	Ethyl Methacrylate	12.86	69	145042	22.38 uL/:		99
65)	trans-1,3-Dichloropropene	12.99	75	188044	21.33 ug/L		95
66)	1,1,2-Trichloroethane	13.26	83	83628	21.98 ug/L		91
67)	Tetrachloroethene	13.41	166	144278	22.58 ug/L		99
68)	2-hexanone	13.42	43	303344	104.05 ug/L		95
69)	1,3-Dichloropropane	13.52	76	184861	21.61 ug/L		94
70)	Dibromochloromethane	13.83	129	135609	20.68 ug/L		98
71)	1,2-Dibromoethane	14.07	107	116503	21.80 ug/L		97
72)	1-Chlorohexane	14.40	91	154127	21.63 ug/L		89
73)	Chlorobenzene	14.65	112	301640	22.37 ug/L		97
74)	1,1,1,2-Tetrachloroethane	14.73	131	126068	21.62 ug/L		95
75)	Ethylbenzene	14.67	91	634850	25.08 ug/L		98
76)	m,p-Xylene	14.82	91	873520	44.85 ug/L		97
77)	o-Xylene	15.40	91	461910	22.80 ug/L		96
78)	Styrene	15.42	104	306954	21.30 ug/L		96
79)	Bromoform	15.82	173	91160	19.53 ug/L		94
81)	Isopropylbenzene	15.83	105	438765	21.87 ug/L		97
82)	Cyclohexanone	16.16	55	13192	79.99 ug/L	#	15
84)	Bromobenzene	16.43	156	151842	21.17 ug/L		97
85)	1,1,2,2-Tetrachloroethane	16.30	83	108478	19.78 ug/L		98
86)	Trans-1,4-Dichloro-2-Buten	16.38	53	25263	12.44 ug/L	#	83
87)	1,2,3-Trichloropropane	16.43	110	37986	18.17 ug/L		89
88)	n-Propylbenzene	16.37	91	553046	20.11 ug/L		98
89)	2-Chlorotoluene	16.63	91	405974	19.86 ug/L		98
90)	4-Chlorotoluene	16.77	91	378495	19.82 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020765.D Vial: 20
Acq On : 14 Oct 2009 7:31 pm Operator: AnjanaP
Sample : t39646-6msd Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:28:05 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

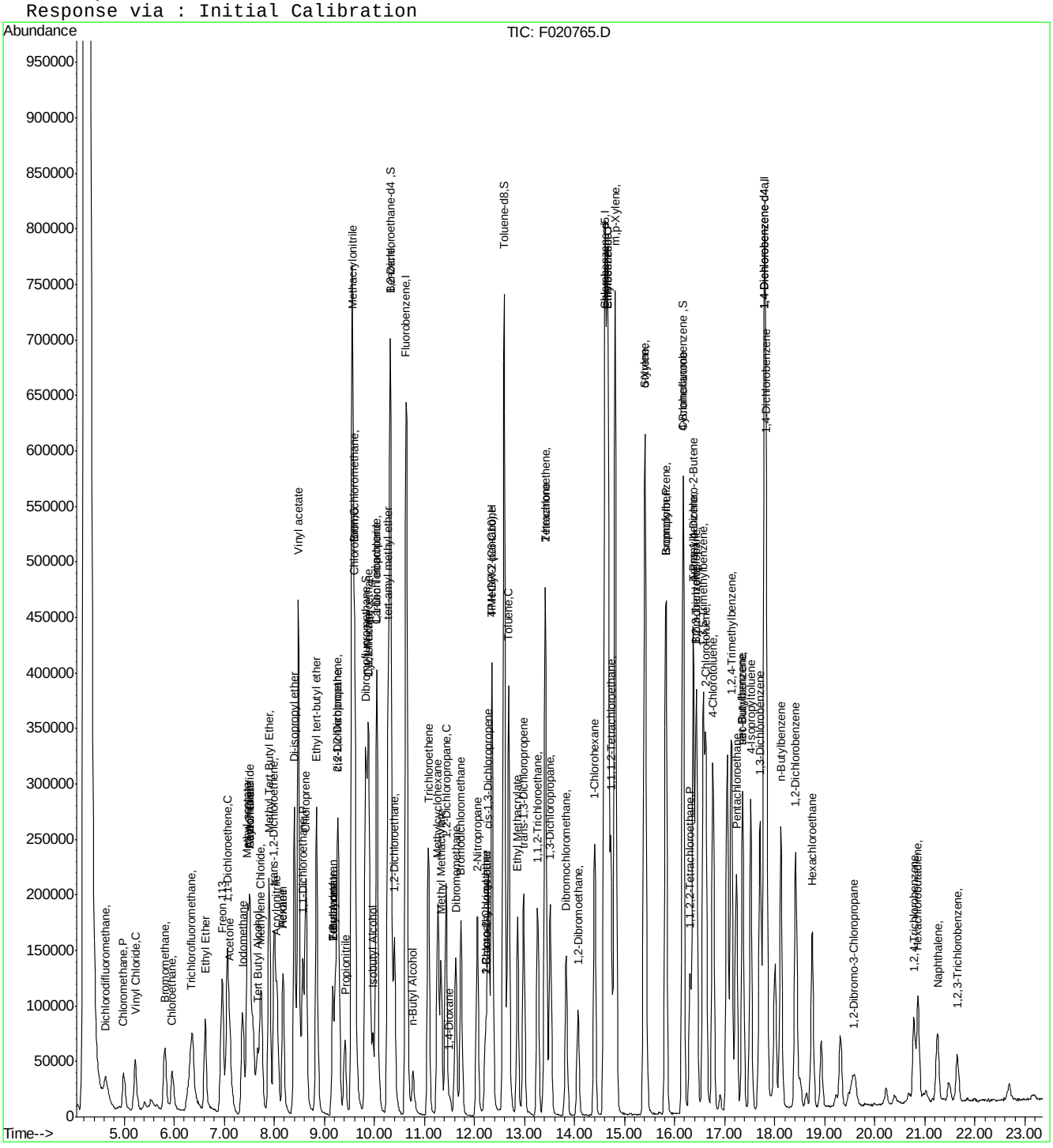
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	370606	20.36	ug/L	98
92)	Pentachloroethane	17.24	167	90350	19.53	uL/L	100
93)	sec-Butylbenzene	17.37	105	396095	19.74	ug/L	98
94)	1,3-Dichlorobenzene	17.71	146	232387	20.74	ug/L	99
95)	4-Isopropyltoluene	17.52	119	315460	19.33	ug/L	100
96)	1,4-Dichlorobenzene	17.84	146	243733	21.12	ug/L	98
97)	tert-Butylbenzene	17.36	91	72058	20.35	ug/L	97
98)	n-Butylbenzene	18.12	91	291555	18.46	ug/L	98
99)	1,2-Dichlorobenzene	18.42	146	211569	20.13	ug/L	96
100)	1,2,4-Trimethylbenzene	17.13	105	381286	19.60	ug/L	96
101)	Hexachloroethane	18.75	119	72359	18.72	uL/L	95
102)	1,2-Dibromo-3-Chloropropan	19.57	75	15838	15.39	ug/L	94
103)	1,2,4-Trichlorobenzene	20.79	180	62016	10.27	ug/L	93
104)	Hexachlorobutadiene	20.87	225	43401	16.18	ug/L	94
105)	Naphthalene	21.25	128	108261	12.74	ug/L	97
106)	1,2,3-Trichlorobenzene	21.65	180	33745	9.71	ug/L	95
108)	TPH-GRO (C6-C10)	12.34	TIC	40307311m	1650.83	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020765.D Vial: 20
Acq On : 14 Oct 2009 7:31 pm Operator: AnjanaP
Sample : t39646-6msd Inst : GC/MS F
Misc : ms7105,vf3602,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:30 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/16/09 13:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020789.D Vial: 17
Acq On : 15 Oct 2009 5:22 pm Operator: AnjanaP
Sample : t39537-1ms Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:36 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.66	96	1088835	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.62	117	788188	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.82	152	436667	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.82	152	436667	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	294782	45.66	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 91.32%			
45) 1,2-Dichloroethane-d4	10.33	65	373070	45.32	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 90.64%			
62) Toluene-d8	12.61	98	859065	47.06	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.12%			
83) 4-Bromofluorobenzene	16.19	95	379870	46.03	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.06%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.67	85	84051	13.74	ug/L	100
3) Chloromethane	5.02	50	74960	12.75	ug/L	99
4) Vinyl Chloride	5.23	62	86845	18.27	ug/L	97
5) Bromomethane	5.84	94	75887	20.85	ug/L	98
6) Chloroethane	5.99	64	62028	21.33	ug/L	96
7) Trichlorofluoromethane	6.37	101	177011	18.73	ug/L	93
8) Acrolein	8.20	56	49295	104.45	ug/L	100
9) Ethyl Ether	6.64	59	83617	21.32	ug/L	98
10) 1,1-Dichloroethene	7.08	61	186379	24.43	ug/L	99
11) Freon 113	6.98	101	128095	26.11	ug/L	93
12) Acetone	7.13	43	173231	117.57	ug/L	92
13) Iodomethane	7.40	142	220318	26.05	ug/L	94
14) Methyl acetate	7.49	43	298793	96.38	ug/L	96
15) Allyl Chloride	7.54	41	156158	27.19	uL/L	88
16) Carbon Disulfide	7.53	76	353455	23.51	ug/L	93
17) Acetonitrile	7.54	41	77663m	77.52	uL/L	
18) Methylene Chloride	7.76	49	142968	22.04	ug/L	95
19) Tert Butyl Alcohol	7.68	59	89966	198.03	ug/L	86
20) trans-1,2-Dichloroethene	8.03	61	168818	23.74	ug/L	97
21) Acrylonitrile	8.08	53	127586	100.21	ug/L	99
22) Methyl Tert Butyl Ether	7.92	73	364062	22.59	ug/L	97
23) Hexane	8.20	57	82748	21.06	ug/L	92
24) 1,1-Dichloroethane	8.59	63	207388	23.08	ug/L	98
25) Vinyl acetate	8.50	43	1097736	97.32	ug/L	98
26) Di-isopropyl ether	8.42	45	384343	21.86	ug/L	97
27) Chloroprene	8.66	53	245674	29.50	uL/L	92
28) Ethyl tert-butyl ether	8.86	59	392347	22.71	ug/L	99
29) 2,2-Dichloropropane	9.28	77	144098	19.43	ug/L	98
30) cis-1,2-Dichloroethene	9.31	96	141131	22.83	ug/L	88
31) Ethyl Acetate	9.19	43	201579	33.12	uL/L	99
32) 2-Butanone	9.19	43	425238m	69.87	ug/L	
33) Propionitrile	9.43	54	114434	245.78	uL/L	99
34) Methacrylonitrile	9.57	41	730847	178.70	uL/L	90
35) Bromochloromethane	9.62	128	74021	24.19	ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020789.D Vial: 17
Acq On : 15 Oct 2009 5:22 pm Operator: AnjanaP
Sample : t39537-1ms Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:36 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.63	83	267885	22.49 ug/L		99
37)	Tetrahydrofuran	9.19	42	24006	7.74 ug/L		90
38)	1,1,1-Trichloroethane	9.89	97	230860	22.49 ug/L		97
40)	Cyclohexane	9.91	56	145319	23.53 ug/L		94
41)	Isobutyl Alcohol	9.99	43	64266	847.84 uL/L		77
42)	n-Butyl Alcohol	10.79	56	38535	849.21 ug/L		88
43)	1,1-Dichloropropene	10.06	75	181772	23.77 ug/L		95
44)	Carbon Tetrachloride	10.07	117	202487	22.64 ug/L		96
46)	Benzene	10.34	78	431890	24.17 ug/L		89
47)	1,2-Dichloroethane	10.42	62	216100	20.84 ug/L		97
48)	tert-amyl methyl ether	10.29	73	375574	23.08 ug/L		93
49)	Trichloroethene	11.10	95	141188	22.93 ug/L		98
50)	Methylcyclohexane	11.28	83	133514	23.20 ug/L		96
51)	Methyl Methacrylate	11.34	41	122259	25.62 uL/L		98
52)	1,2-Dichloropropane	11.45	63	98272	22.35 ug/L		88
53)	Dibromomethane	11.64	93	95490	22.56 ug/L		100
54)	1,4-Dioxane	11.53	88	17826	403.83 ug/L		86
55)	Bromodichloromethane	11.75	83	205668	20.01 ug/L		97
56)	2-Nitropropane	12.07	41	210230	96.92 ug/L		98
57)	2-Chloroethyl vinyl ether	12.24	63	107355	47.44 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.24	63	107355	16.72 uL/L		96
59)	4-Methyl-2-pentanone	12.37	43	430426	101.31 ug/L		98
60)	cis-1,3-Dichloropropene	12.30	75	208670	21.73 ug/L		92
63)	Toluene	12.70	91	498194	23.57 ug/L		99
64)	Ethyl Methacrylate	12.88	69	163972	24.33 uL/:		98
65)	trans-1,3-Dichloropropene	13.00	75	204378	22.29 ug/L		95
66)	1,1,2-Trichloroethane	13.28	83	87869	22.20 ug/L		93
67)	Tetrachloroethene	13.43	166	156020	23.48 ug/L		97
68)	2-hexanone	13.44	43	293904	96.93 ug/L		94
69)	1,3-Dichloropropane	13.54	76	192382	21.62 ug/L		92
70)	Dibromochloromethane	13.85	129	148768	21.81 ug/L		96
71)	1,2-Dibromoethane	14.09	107	123499	22.22 ug/L		98
72)	1-Chlorohexane	14.42	91	171045	23.08 ug/L		87
73)	Chlorobenzene	14.67	112	327658	23.36 ug/L		93
74)	1,1,1,2-Tetrachloroethane	14.74	131	135464	22.33 ug/L		96
75)	Ethylbenzene	14.68	91	586584	22.28 ug/L		98
76)	m,p-Xylene	14.83	91	902945	44.58 ug/L		97
77)	o-Xylene	15.41	91	472865	22.44 ug/L		96
78)	Styrene	15.44	104	327395	21.85 ug/L		94
79)	Bromoform	15.84	173	99712	20.54 ug/L		98
81)	Isopropylbenzene	15.84	105	464289	23.49 ug/L		97
82)	Cyclohexanone	16.18	55	11743	72.53 ug/L	#	1
84)	Bromobenzene	16.45	156	165150	23.36 ug/L		99
85)	1,1,2,2-Tetrachloroethane	16.32	83	113935	21.08 ug/L		96
86)	Trans-1,4-Dichloro-2-Buten	16.39	53	26492	13.24 ug/L	#	78
87)	1,2,3-Trichloropropane	16.45	110	39323	19.09 ug/L		93
88)	n-Propylbenzene	16.38	91	589651	21.76 ug/L		99
89)	2-Chlorotoluene	16.64	91	436323	21.66 ug/L		98
90)	4-Chlorotoluene	16.79	91	407672	21.67 ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020789.D Vial: 17
Acq On : 15 Oct 2009 5:22 pm Operator: AnjanaP
Sample : t39537-1ms Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:36 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.59	105	384983	21.47	ug/L	96
92)	Pentachloroethane	17.25	167	105351	23.11	uL/L	98
93)	sec-Butylbenzene	17.38	105	418002	21.14	ug/L	100
94)	1,3-Dichlorobenzene	17.72	146	244544	22.15	ug/L	98
95)	4-Isopropyltoluene	17.53	119	333106	20.72	ug/L	98
96)	1,4-Dichlorobenzene	17.85	146	256574	22.56	ug/L	98
97)	tert-Butylbenzene	17.38	91	74713	21.47	ug/L	91
98)	n-Butylbenzene	18.14	91	295486	18.98	ug/L	98
99)	1,2-Dichlorobenzene	18.44	146	220160	21.25	ug/L	97
100)	1,2,4-Trimethylbenzene	17.15	105	405700	21.17	ug/L	98
101)	Hexachloroethane	18.76	119	83435	21.90	uL/L	95
102)	1,2-Dibromo-3-Chloropropan	19.59	75	12126	11.20	ug/L	96
103)	1,2,4-Trichlorobenzene	20.80	180	53649	8.75	ug/L	96
104)	Hexachlorobutadiene	20.89	225	41548	15.61	ug/L	97
105)	Naphthalene	21.27	128	80359	9.08	ug/L	97
106)	1,2,3-Trichlorobenzene	21.66	180	16601	3.45	ug/L	89
108)	TPH-GRO (C6-C10)	12.34	TIC	41590571m	1692.27	ug/kg	

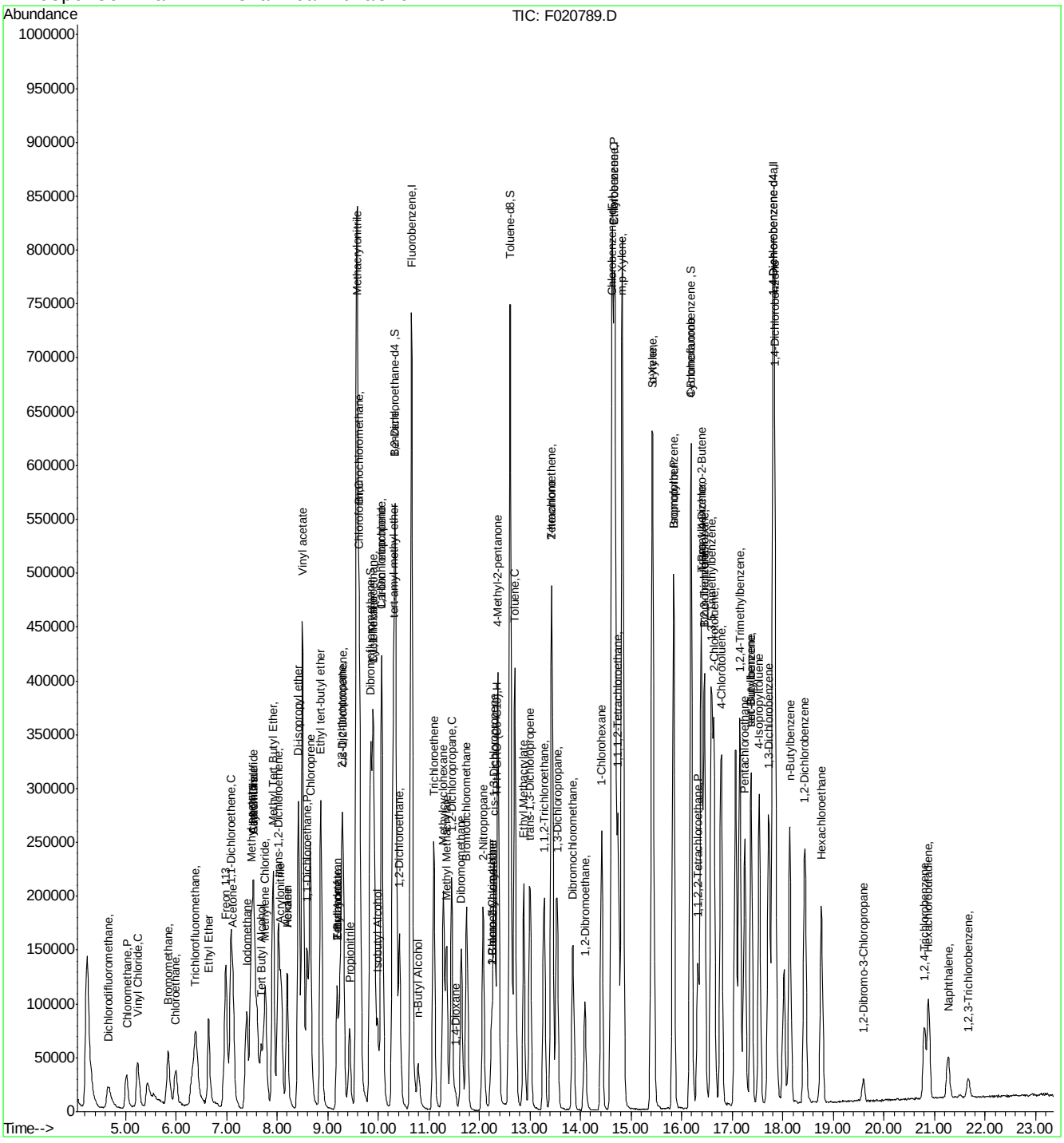
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020789.D Vial: 17
Acq On : 15 Oct 2009 5:22 pm Operator: AnjanaP
Sample : t39537-1ms Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 10:42 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/16/09 13:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020790.D Vial: 18
Acq On : 15 Oct 2009 5:52 pm Operator: AnjanaP
Sample : t39537-1msd Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.66	96	1123656	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	803778	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.82	152	450285	50.00	ug/L	0.05
107) 1,4-Dichlorobenzene-d4a	17.82	152	450285	50.00	ug/kg	0.05

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	296133	44.45	ug/L	0.04
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.90%			
45) 1,2-Dichloroethane-d4	10.33	65	374893	44.07	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 88.14%			
62) Toluene-d8	12.62	98	895693	48.05	ug/L	0.05
Spiked Amount 50.000	Range 87 - 119		Recovery = 96.10%			
83) 4-Bromofluorobenzene	16.19	95	386669	45.45	ug/L	0.05
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.90%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	87635	13.89	ug/L	100
3) Chloromethane	5.02	50	80462	13.32	ug/L	100
4) Vinyl Chloride	5.24	62	86482	17.58	ug/L	87
5) Bromomethane	5.85	94	75590	20.05	ug/L	99
6) Chloroethane	6.00	64	62443	20.81	ug/L	98
7) Trichlorofluoromethane	6.37	101	177508	18.20	ug/L	92
8) Acrolein	8.20	56	49577	101.79	ug/L	97
9) Ethyl Ether	6.65	59	86855	21.46	ug/L	98
10) 1,1-Dichloroethene	7.09	61	185103	23.51	ug/L	94
11) Freon 113	6.99	101	125769	24.85	ug/L	96
12) Acetone	7.14	43	179036	117.76	ug/L	95
13) Iodomethane	7.40	142	224610	25.73	ug/L	95
14) Methyl acetate	7.49	43	308945	96.56	ug/L	95
15) Allyl Chloride	7.54	41	165497	28.01	uL/L	84
16) Carbon Disulfide	7.53	76	361945	23.33	ug/L	93
17) Acetonitrile	7.54	41	78400m	75.68	uL/L	
18) Methylene Chloride	7.77	49	147903	22.09	ug/L	94
19) Tert Butyl Alcohol	7.69	59	92027	196.29	ug/L	91
20) trans-1,2-Dichloroethene	8.02	61	174371	23.76	ug/L	98
21) Acrylonitrile	8.08	53	132054	100.50	ug/L	100
22) Methyl Tert Butyl Ether	7.92	73	366251	22.03	ug/L	97
23) Hexane	8.20	57	83249	20.53	ug/L	90
24) 1,1-Dichloroethane	8.59	63	209236	22.56	ug/L	97
25) Vinyl acetate	8.50	43	1097298	94.26	ug/L	97
26) Di-isopropyl ether	8.43	45	391602	21.59	ug/L	100
27) Chloroprene	8.65	53	242228	28.18	uL/L	96
28) Ethyl tert-butyl ether	8.87	59	395972	22.21	ug/L	98
29) 2,2-Dichloropropane	9.28	77	144424	18.87	ug/L	95
30) cis-1,2-Dichloroethene	9.31	96	145091	22.74	ug/L	88
31) Ethyl Acetate	9.19	43	207092	32.97	uL/L	99
32) 2-Butanone	9.19	43	430804m	68.59	ug/L	
33) Propionitrile	9.43	54	119963	249.67	uL/L	98
34) Methacrylonitrile	9.58	41	748610	177.38	uL/L	92
35) Bromochloromethane	9.63	128	74918	23.72	ug/L	95

(#) = qualifier out of range (m) = manual integration
F020790.D VF3547AP9G.M Fri Oct 16 10:51:13 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020790.D Vial: 18
Acq On : 15 Oct 2009 5:52 pm Operator: AnjanaP
Sample : t39537-1msd Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.64	83	270177	21.98 ug/L		98
37)	Tetrahydrofuran	9.19	42	17173	4.89 ug/L		90
38)	1,1,1-Trichloroethane	9.89	97	226729	21.40 ug/L		98
40)	Cyclohexane	9.91	56	148290	23.27 ug/L		96
41)	Isobutyl Alcohol	9.99	43	67974	868.35 uL/L		82
42)	n-Butyl Alcohol	10.80	56	39392	841.59 ug/L		82
43)	1,1-Dichloropropene	10.07	75	184258	23.35 ug/L		92
44)	Carbon Tetrachloride	10.08	117	205239	22.23 ug/L		97
46)	Benzene	10.34	78	440016	23.87 ug/L		90
47)	1,2-Dichloroethane	10.42	62	217825	20.36 ug/L		98
48)	tert-amyl methyl ether	10.30	73	378163	22.52 ug/L		95
49)	Trichloroethene	11.10	95	145779	22.94 ug/L		98
50)	Methylcyclohexane	11.29	83	137420	23.14 ug/L		96
51)	Methyl Methacrylate	11.36	41	118207	24.00 uL/L		92
52)	1,2-Dichloropropane	11.46	63	102758	22.65 ug/L		87
53)	Dibromomethane	11.64	93	98003	22.43 ug/L		98
54)	1,4-Dioxane	11.53	88	17583	385.98 ug/L		97
55)	Bromodichloromethane	11.75	83	213308	20.11 ug/L		99
56)	2-Nitropropane	12.08	41	215596	96.32 ug/L		98
57)	2-Chloroethyl vinyl ether	12.24	63	112008	47.96 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.24	63	112008	16.90 uL/L		100
59)	4-Methyl-2-pentanone	12.37	43	453235	103.38 ug/L		97
60)	cis-1,3-Dichloropropene	12.30	75	216740	21.87 ug/L		90
63)	Toluene	12.71	91	516402	23.95 ug/L		99
64)	Ethyl Methacrylate	12.88	69	166133	24.17 uL/:		98
65)	trans-1,3-Dichloropropene	13.00	75	205923	22.02 ug/L		94
66)	1,1,2-Trichloroethane	13.29	83	89630	22.21 ug/L		92
67)	Tetrachloroethene	13.43	166	158956	23.46 ug/L		98
68)	2-hexanone	13.44	43	298291	96.47 ug/L		93
69)	1,3-Dichloropropane	13.54	76	200095	22.05 ug/L		92
70)	Dibromochloromethane	13.86	129	149580	21.50 ug/L		98
71)	1,2-Dibromoethane	14.09	107	124982	22.05 ug/L		98
72)	1-Chlorohexane	14.43	91	172881	22.87 ug/L		86
73)	Chlorobenzene	14.67	112	330832	23.13 ug/L		94
74)	1,1,1,2-Tetrachloroethane	14.75	131	136427	22.05 ug/L		97
75)	Ethylbenzene	14.68	91	596806	22.23 ug/L		98
76)	m,p-Xylene	14.83	91	937065	45.36 ug/L		97
77)	o-Xylene	15.41	91	487930	22.71 ug/L		96
78)	Styrene	15.44	104	338485	22.15 ug/L		93
79)	Bromoform	15.85	173	101707	20.55 ug/L		97
81)	Isopropylbenzene	15.85	105	469056	23.01 ug/L		98
82)	Cyclohexanone	16.18	55	13732	81.87 ug/L	#	9
84)	Bromobenzene	16.46	156	167156	22.93 ug/L		99
85)	1,1,2,2-Tetrachloroethane	16.33	83	118421	21.25 ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.40	53	25619	12.42 ug/L	#	77
87)	1,2,3-Trichloropropane	16.46	110	40379	19.01 ug/L		91
88)	n-Propylbenzene	16.39	91	606894	21.71 ug/L		99
89)	2-Chlorotoluene	16.64	91	444433	21.40 ug/L		97
90)	4-Chlorotoluene	16.78	91	417894	21.54 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020790.D Vial: 18
Acq On : 15 Oct 2009 5:52 pm Operator: AnjanaP
Sample : t39537-1msd Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 09:41:37 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

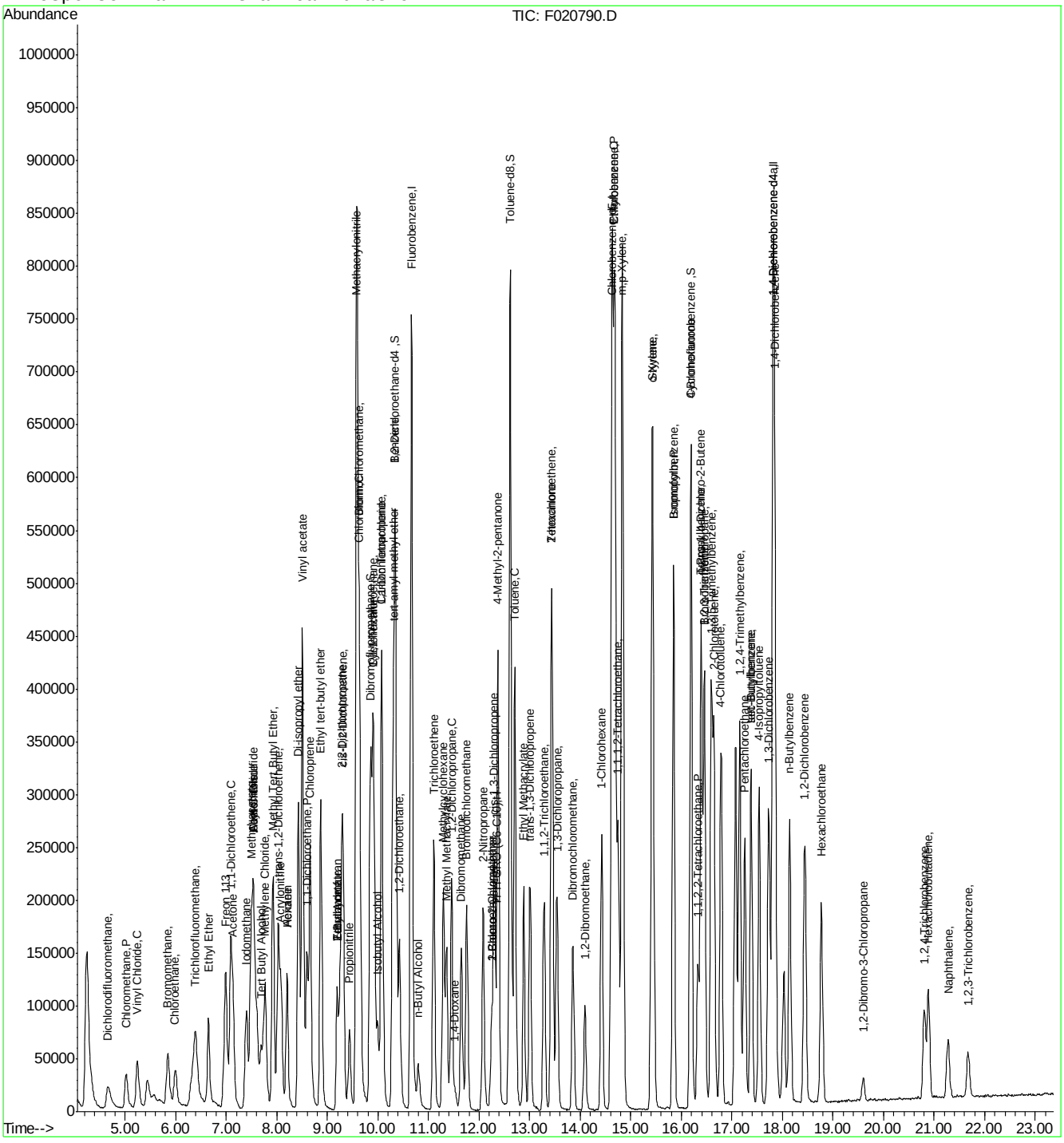
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.59	105	397549	21.50	ug/L	96
92)	Pentachloroethane	17.25	167	108791	23.14	uL/L	96
93)	sec-Butylbenzene	17.38	105	434935	21.33	ug/L	99
94)	1,3-Dichlorobenzene	17.72	146	251646	22.11	ug/L	98
95)	4-Isopropyltoluene	17.54	119	345609	20.84	ug/L	99
96)	1,4-Dichlorobenzene	17.85	146	260733	22.24	ug/L	97
97)	tert-Butylbenzene	17.38	91	77183	21.51	ug/L	91
98)	n-Butylbenzene	18.14	91	310744	19.36	ug/L	97
99)	1,2-Dichlorobenzene	18.44	146	228387	21.38	ug/L	94
100)	1,2,4-Trimethylbenzene	17.15	105	413216	20.91	ug/L	99
101)	Hexachloroethane	18.77	119	87163	22.19	uL/L	96
102)	1,2-Dibromo-3-Chloropropan	19.59	75	14027	12.98	ug/L	90
103)	1,2,4-Trichlorobenzene	20.81	180	67178	11.09	ug/L	95
104)	Hexachlorobutadiene	20.89	225	47308	17.64	ug/L	97
105)	Naphthalene	21.28	128	108721	12.57	ug/L	97
106)	1,2,3-Trichlorobenzene	21.67	180	35279	10.07	ug/L	93
108)	TPH-GRO (C6-C10)	12.34	TIC	42450071m	1682.87	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020790.D VF3547AP9G.M Fri Oct 16 10:51:14 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020790.D Vial: 18
Acq On : 15 Oct 2009 5:52 pm Operator: AnjanaP
Sample : t39537-1msd Inst : GC/MS F
Misc : ms7112,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 10:43 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration

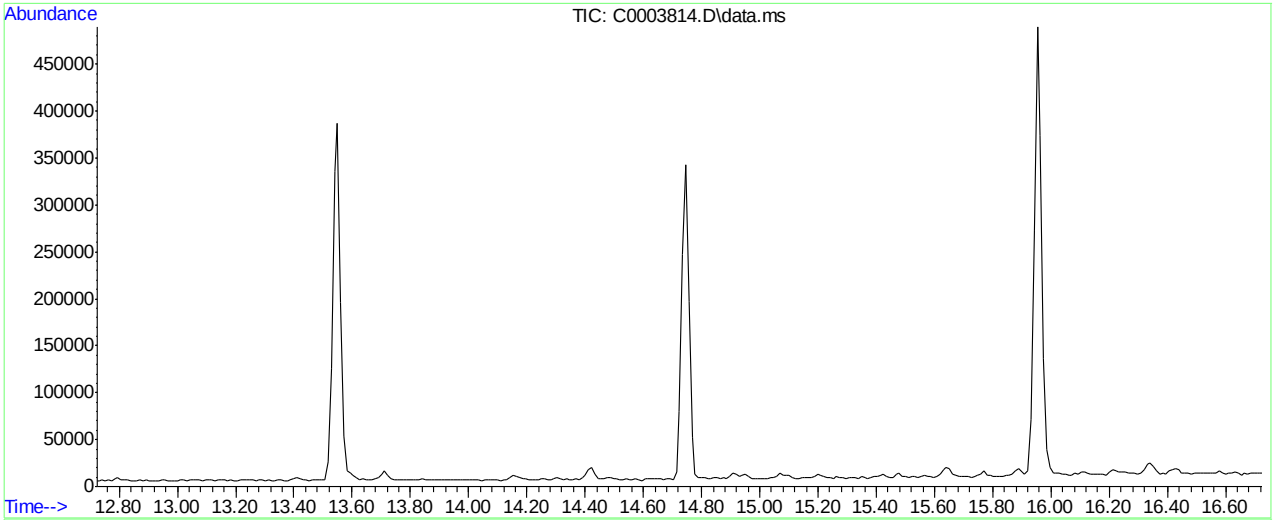


ACCUTEST Laboratories T39646

BFB

Data File : C:\msdchem\1\DATA\VC0168\C0003814.D Vial: 1
Acq On : 8 Oct 2009 9:01 am Operator: AnjanaP
Sample : bfb Inst : TXMSC
Misc : ms7089,VC0168,5,,,5,,WATER Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title : SW846 8260B and EPA624



Spectrum Information: Average of 14.703 to 14.746 min.

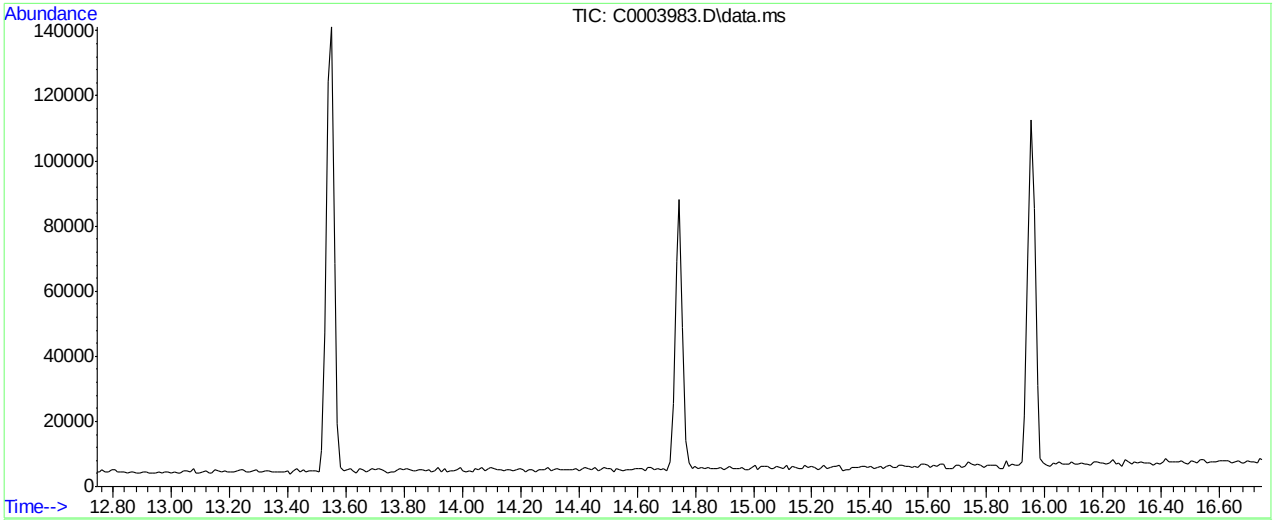
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	4297	PASS
75	95	30	60	44.0	12131	PASS
95	95	100	100	100.0	27563	PASS
96	95	5	9	7.1	1963	PASS
173	174	0.00	2	0.3	66	PASS
174	95	50	100	91.7	25283	PASS
175	174	5	9	7.5	1899	PASS
176	174	95	101	96.7	24446	PASS
177	176	5	9	7.0	1712	PASS

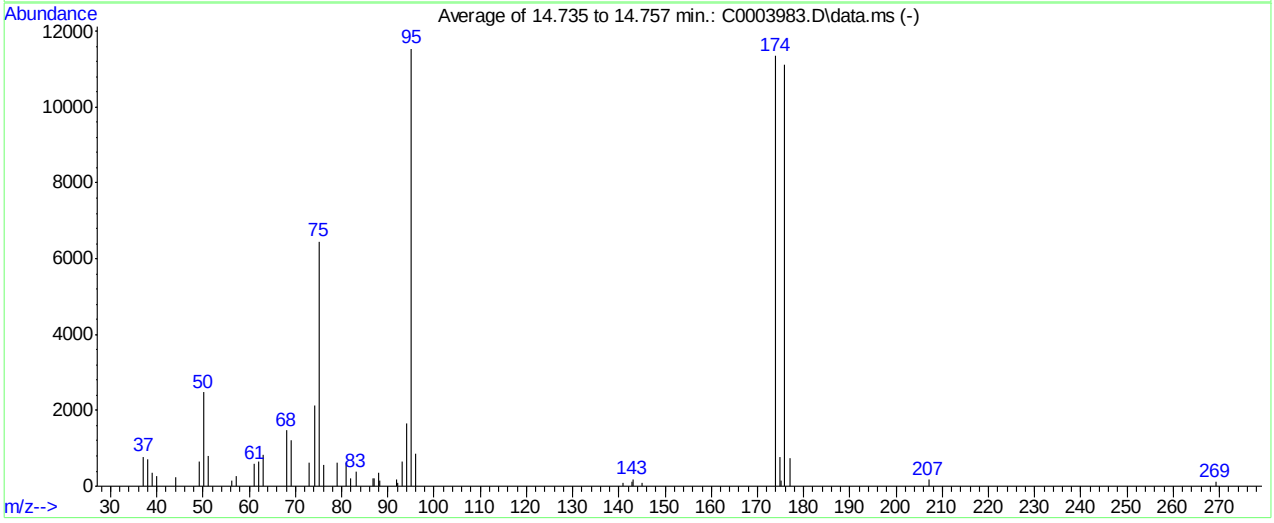
C0003814.D VC168.m Thu Oct 08 14:59:42 2009

BFB

Data File : C:\msdchem\1\DATA\VC0175\C0003983.D Vial: 2
Acq On : 14 Oct 2009 10:09 am Operator: AnjanaP
Sample : bfb Inst : TXMSC
Misc : ms7106,VC0176,5,,,5,,WATER Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\VC168.m (RTE Integrator)
Title : SW846 8260B and EPA624





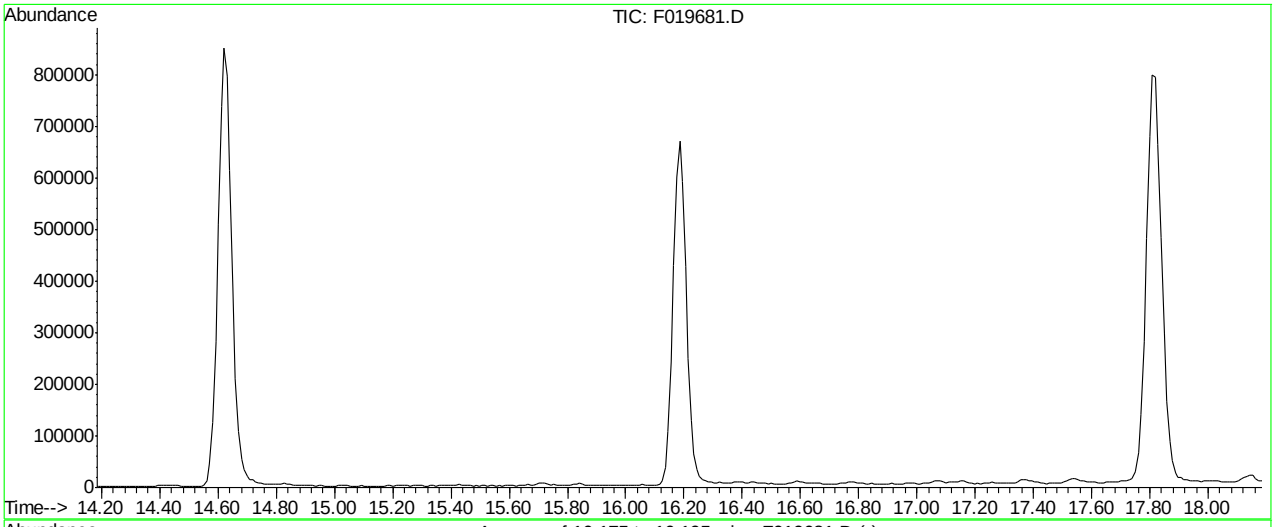
AutoFind: Scans 989, 990, 991; Background Corrected with Scan 984

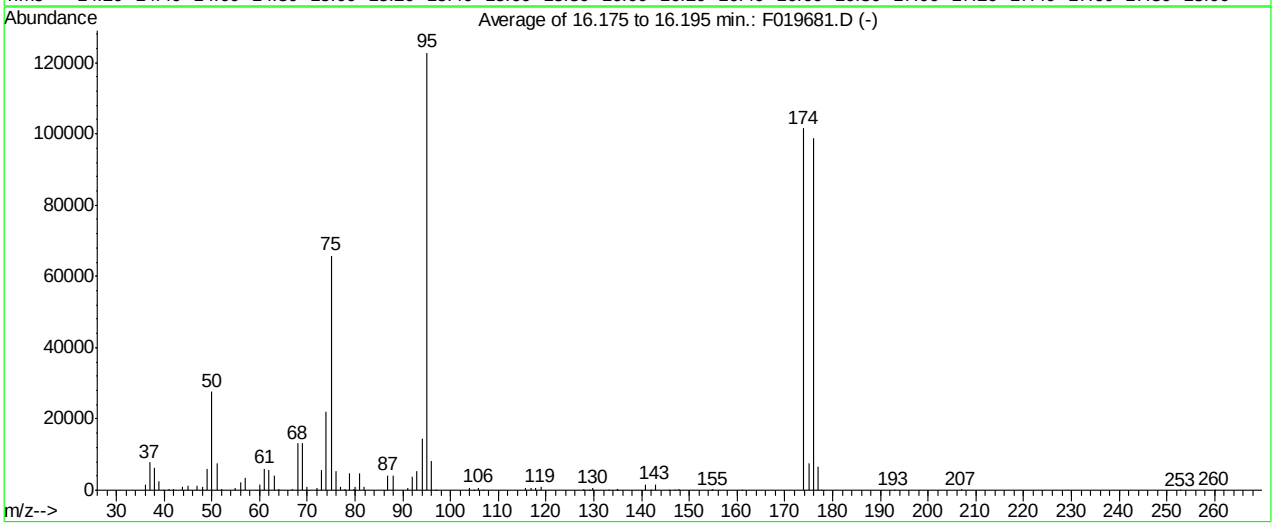
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	2480	PASS
75	95	30	60	55.9	6458	PASS
95	95	100	100	100.0	11547	PASS
96	95	5	9	7.4	857	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.2	11342	PASS
175	174	5	9	6.7	758	PASS
176	174	95	101	98.1	11126	PASS
177	176	5	9	6.8	752	PASS

C0003983.D VC168.m Thu Oct 15 11:40:57 2009

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3548\F019681.D Vial: 5
Acq On : 14 Sep 2009 11:58 am Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624





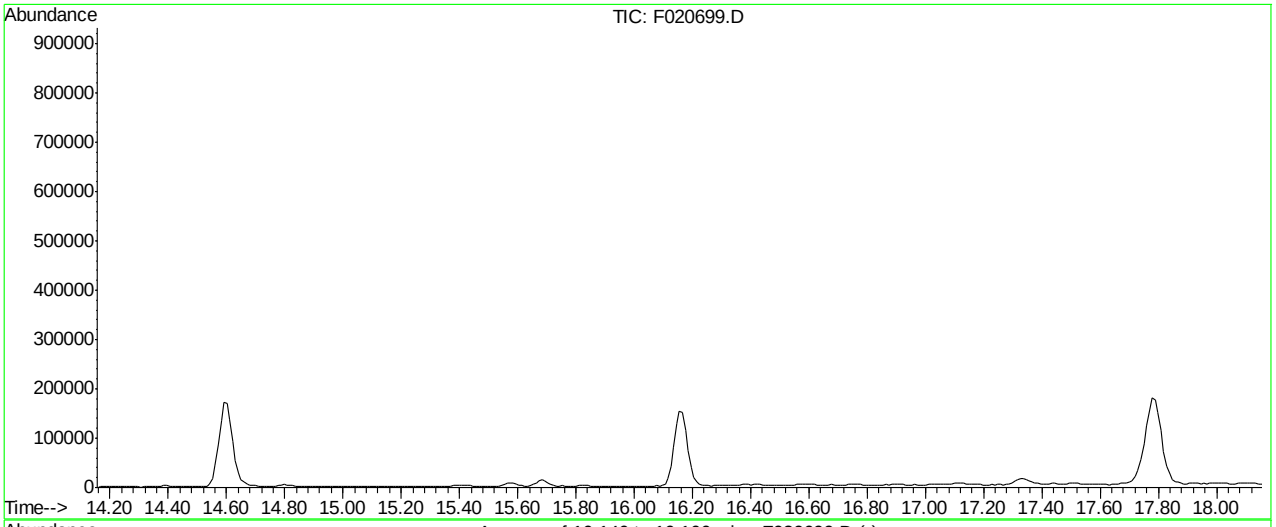
AutoFind: Scans 1233, 1234, 1235; Background Corrected with Scan 1224

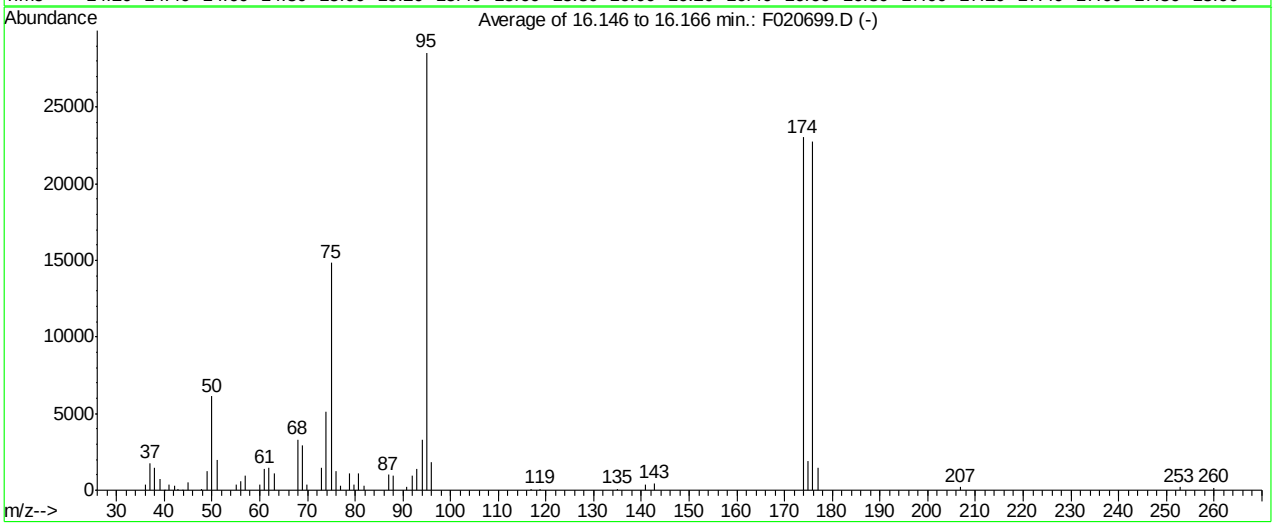
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	27589	PASS
75	95	30	60	53.6	65813	PASS
95	95	100	100	100.0	122850	PASS
96	95	5	9	6.8	8327	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.7	101570	PASS
175	174	5	9	7.5	7649	PASS
176	174	95	101	97.1	98674	PASS
177	176	5	9	6.7	6644	PASS

F019681.D VF3547.M Tue Sep 15 09:55:18 2009

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3599\F020699.D Vial: 1
Acq On : 13 Oct 2009 8:56 am Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624





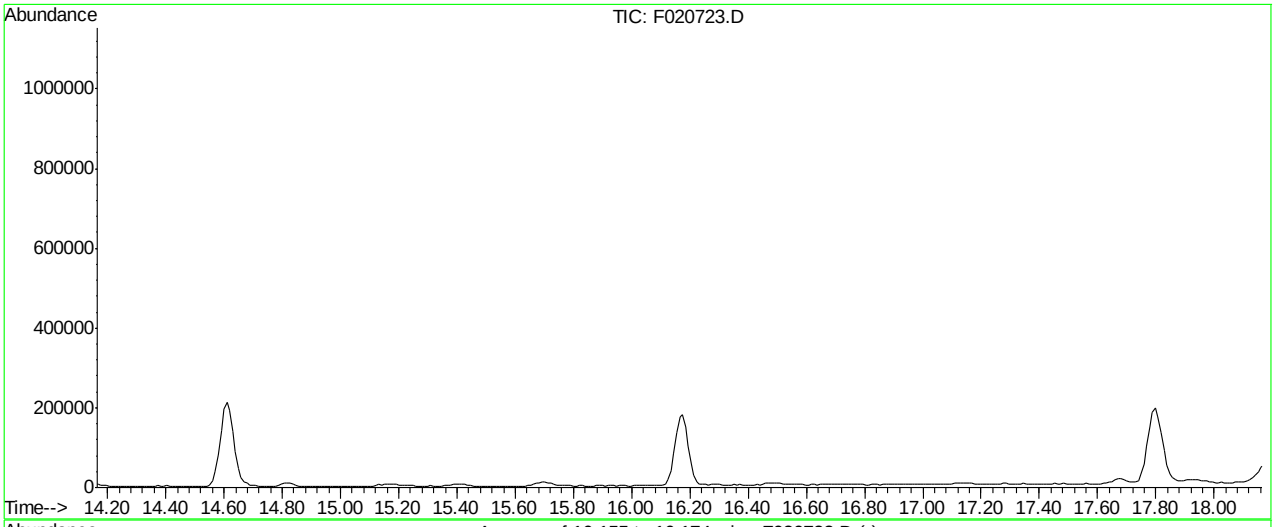
AutoFind: Scans 1230, 1231, 1232; Background Corrected with Scan 1222

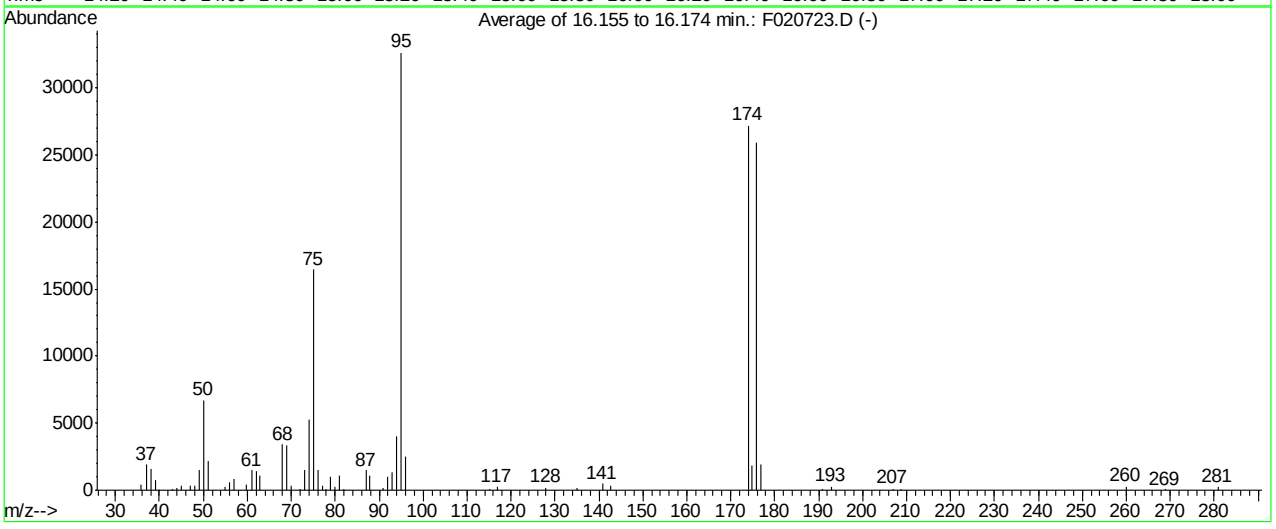
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	6122	PASS
75	95	30	60	51.9	14835	PASS
95	95	100	100	100.0	28568	PASS
96	95	5	9	6.5	1854	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.6	23032	PASS
175	174	5	9	8.2	1882	PASS
176	174	95	101	98.7	22733	PASS
177	176	5	9	6.6	1490	PASS

F020699.D VF3547AP9G.M Wed Oct 14 13:32:29 2009

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3599\F020723.D Vial: 25
Acq On : 13 Oct 2009 9:13 pm Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624





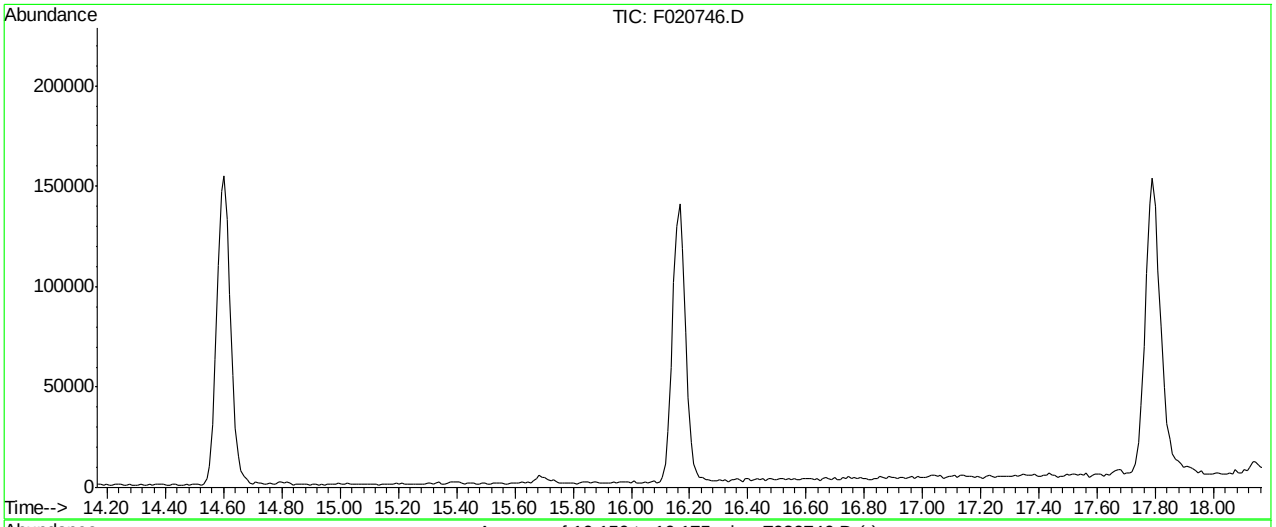
AutoFind: Scans 1231, 1232, 1233; Background Corrected with Scan 1224

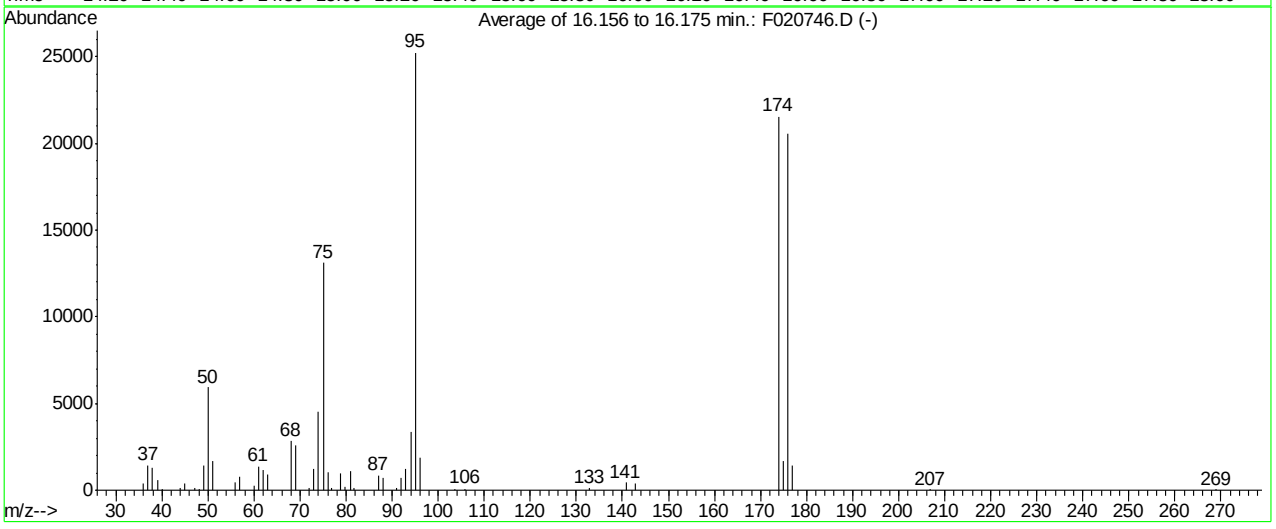
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	6726	PASS
75	95	30	60	50.4	16460	PASS
95	95	100	100	100.0	32634	PASS
96	95	5	9	7.8	2538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.4	27205	PASS
175	174	5	9	6.8	1838	PASS
176	174	95	101	95.3	25922	PASS
177	176	5	9	7.6	1962	PASS

F020723.D VF3547AP9G.M Wed Oct 14 14:47:55 2009

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3601\F020746.D Vial: 1
Acq On : 14 Oct 2009 9:36 am Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624





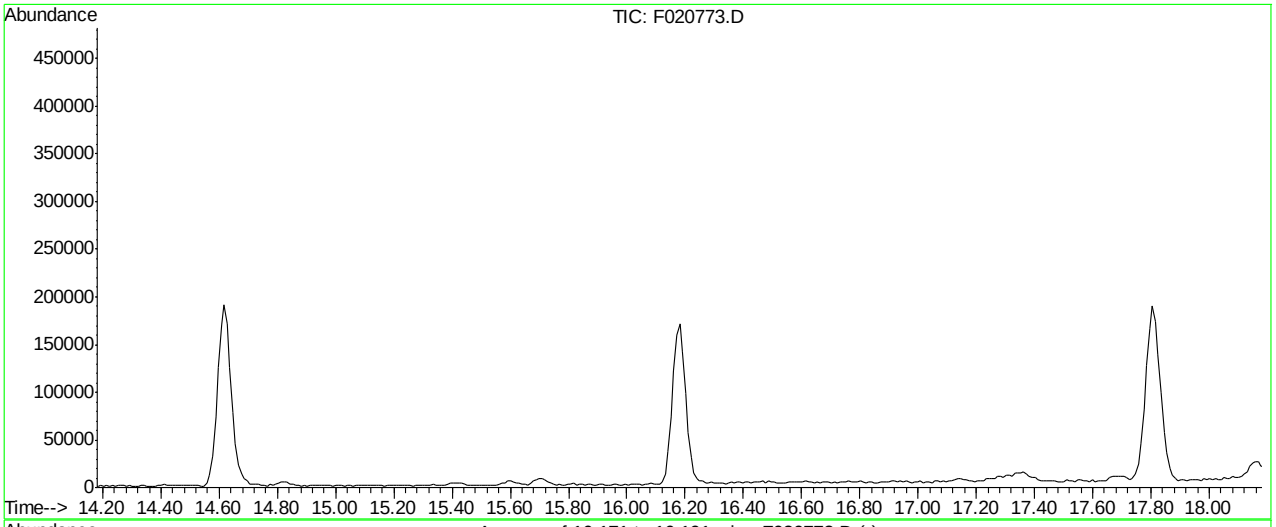
AutoFind: Scans 1231, 1232, 1233; Background Corrected with Scan 1223

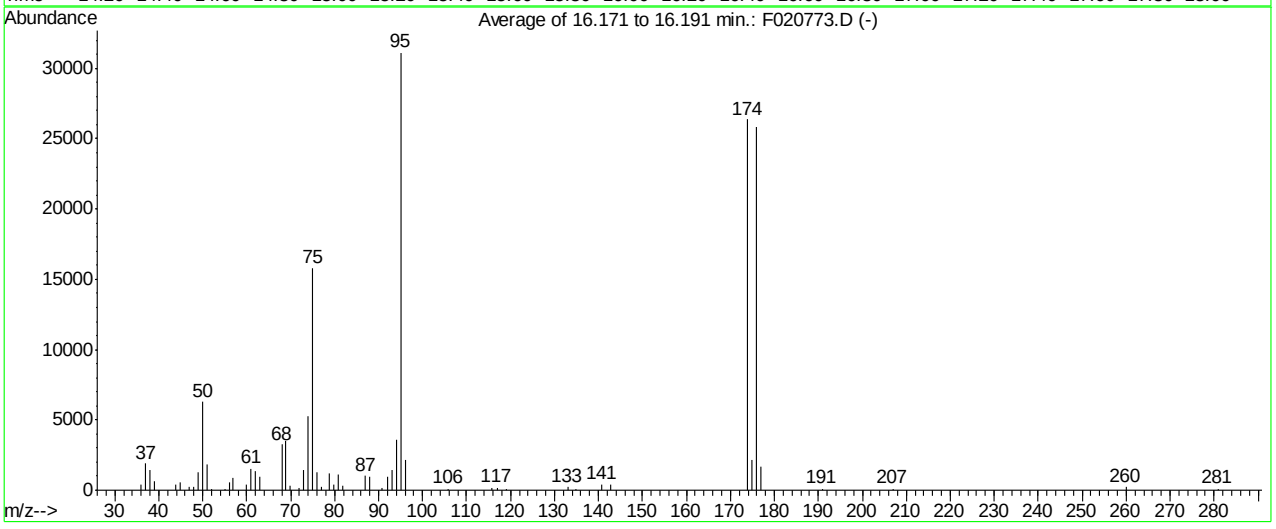
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	5947	PASS
75	95	30	60	52.0	13115	PASS
95	95	100	100	100.0	25245	PASS
96	95	5	9	7.4	1859	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.3	21533	PASS
175	174	5	9	7.7	1667	PASS
176	174	95	101	95.6	20584	PASS
177	176	5	9	6.8	1403	PASS

F020746.D VF3547AP9G.M Thu Oct 15 09:02:07 2009

Methods: SW-846 8260B

```
Data File : C:\MSDCHEM\2\DATA\VF3603\F020773.D          Vial: 1
Acq On    : 15 Oct 2009   8:56 am                   Operator: AnjanaP
Sample    : bfb                                     Inst    : GC/MS F
Misc      : ms7105,vf3603,5,,,5,,water              Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title     : SW846 8260B and EPA 624
```





AutoFind: Scans 1232, 1233, 1234; Background Corrected with Scan 1224

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	6261	PASS
75	95	30	60	50.8	15815	PASS
95	95	100	100	100.0	31130	PASS
96	95	5	9	6.8	2126	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.7	26370	PASS
175	174	5	9	8.0	2121	PASS
176	174	95	101	97.9	25813	PASS
177	176	5	9	6.6	1691	PASS

F020773.D VF3547AP9G.M Thu Oct 15 16:31:19 2009

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003815.D
Acq On : 8 Oct 2009 9:33 am
Operator : AnjanaP
Sample : ic168-1
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:44:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:43:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.413	96	1616918	50.00	ug/kg	0.01
53) Chlorobenzene-d5	13.549	117	1299235	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	595746	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	595746	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	9331	1.09	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 2.18%#			
39) 1,2-Dichloroethane-d4	10.122	65	9998	1.09	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 2.18%#			
54) Toluene-d8	12.008	98	26170	0.88	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 1.76%#			
74) 4-Bromofluorobenzene	14.746	95	10446	1.00	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.00%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.400	85	6504	0.98	ug/l	86
3) Chloromethane	4.788	50	6625	1.09	ug/l	98
4) Vinyl Chloride	5.046	62	6511	1.05	ug/l	99
5) Bromomethane	5.693	94	6468	1.22	ug/l	96
6) Chloroethane	5.844	64	5127	1.32	ug/l	88
7) Trichlorofluoromethane	6.264	101	10768	1.08	ug/l	97
8) Ethyl Ether	6.620	59	5962	0.97	ug/l	93
10) 1,1-Dichloroethene	7.051	61	9913	0.88	ug/l	92
11) Freon 113	6.965	101	6595	0.96	ug/l	94
12) Acetone	7.126	43	12361	7.21	ug/l	87
13) Iodomethane	7.320	142	11973	0.82	ug/l	99
14) Methyl Acetate	7.504	43	19786	4.13	ug/l	100
15) Carbon Disulfide	7.439	76	22520	0.95	ug/l	78
16) Methylene Chloride	7.730	49	27937	2.68	ug/l	93
17) Tert Butyl Alcohol	7.504	59	1674	7.72	ug/l #	87
18) trans-1,2-Dichloroethene	8.010	61	9273	0.81	ug/l	96
19) Acrylonitrile	8.085	53	8734	3.65	ug/l	95
20) Methyl Tert Butyl Ether	7.935	73	12517	0.56	ug/l	95
21) Hexane	8.204	57	3068	0.70	ug/l	79
22) 1,1-Dichloroethane	8.560	63	13464	0.94	ug/l	100
23) Vinyl Acetate	8.506	43	34912	2.50	ug/l	93
24) Di-isopropyl ether	8.441	45	12132	0.56	ug/l	95
25) Ethyl tert-butyl ether	8.851	59	11978	0.52	ug/l	98
26) 2,2-Dichloropropane	9.206	77	8887	0.89	ug/l	84
27) cis-1,2-Dichloroethene	9.217	96	8110	0.86	ug/l	85
28) 2-Butanone	9.142	43	28561	3.42	ug/l	100
29) Bromochloromethane	9.497	128	4799	0.91	ug/l	93
30) Chloroform	9.530	83	18175	1.21	ug/l	83
31) Tetrahydrofuran	9.508	42	1078	0.60	ug/l #	71
32) 1,1,1-Trichloroethane	9.745	97	9195	0.78	ug/l	86
34) Cyclohexane	9.745	56	4199	0.54	ug/l	97
35) n-Butyl Alcohol	10.413	43	449	6.88	ug/L #	1
36) 1,1-Dichloropropene	9.896	75	6150	0.60	ug/l	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003815.D
Acq On : 8 Oct 2009 9:33 am
Operator : AnjanaP
Sample : ic168-1
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:44:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:43:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) Isobutyl Alcohol	9.874	43	940	4.79 ug/L #	61
38) Carbon Tetrachloride	9.885	117	8387	0.83 ug/l	92
40) Benzene	10.133	78	29165	0.82 ug/l	93
41) 1,2-Dichloroethane	10.209	62	9711	0.86 ug/l	97
42) tert-amyl methyl ether	10.122	73	10721	0.47 ug/l	76
43) Trichloroethene	10.780	95	7206	0.86 ug/l	93
44) Methylcyclohexane	10.941	83	6903	1.03 ug/l	86
45) 1,2-Dichloropropane	11.071	63	6898	0.81 ug/l	95
46) Dibromomethane	11.211	93	4951	0.87 ug/l	83
47) 1,4-Dioxane	11.135	88	638	7.35 ug/l	67
48) Bromodichloromethane	11.308	83	10976	0.99 ug/l	82
49) 2-Nitropropane	11.588	41	4713	3.16 ug/l #	70
50) 2-Chloroethyl vinyl ether	11.534	63	10839	2.08 ug/l	96
51) 4-Methyl-2-pentanone	11.836	43	14448	2.50 ug/l	92
52) cis-1,3-Dichloropropene	11.760	75	8385	0.59 ug/l	92
55) Toluene	12.084	91	25049	0.69 ug/l	97
56) trans-1,3-Dichloropropene	12.321	75	6592	0.57 ug/l	93
57) 1,1,2-Trichloroethane	12.526	83	7160	1.05 ug/l	97
58) Tetrachloroethene	12.633	166	8435	0.97 ug/l	90
59) 2-hexanone	12.676	43	8663	2.17 ug/l	95
60) 1,3-Dichloropropane	12.720	76	10544	0.76 ug/l	95
61) Dibromochloromethane	12.957	129	5649	0.65 ug/l	96
62) 1,2-Dibromoethane	13.140	107	5960	0.72 ug/l	98
63) 1-Chlorohexane	13.409	91	3245	0.50 ug/l	94
64) Chlorobenzene	13.582	112	24233	0.94 ug/l	91
65) 1,1,1,2-Tetrachloroethane	13.636	131	7448	0.83 ug/l	94
66) Ethylbenzene	13.603	91	30751	0.84 ug/l	99
67) m,p-Xylene	13.711	91	36574	1.31 ug/l	98
68) o-Xylene	14.153	91	15325	0.53 ug/l	94
69) Styrene	14.164	104	11259	0.43 ug/l	93
70) Bromoform	14.465	173	3906	0.66 ug/kg	88
72) Isopropylbenzene	14.487	105	12729	0.55 ug/l	97
73) Cyclohexanone	14.735	55	579	4.16 ug/l #	60
75) Bromobenzene	14.950	156	8904	0.79 ug/l	95
76) 1,1,2,2-Tetrachloroethane	14.853	83	8828	0.92 ug/l	83
77) Trans-1,4-Dichloro-2-b...	14.918	53	1495	0.60 ug/l #	82
78) 1,2,3-Trichloropropane	14.950	110	1982	0.67 ug/l	95
79) n-Propylbenzene	14.907	91	17040	0.56 ug/l	99
80) 2-Chlorotoluene	15.090	91	14876	0.60 ug/l	94
81) 4-Chlorotoluene	15.209	91	13879	0.61 ug/l	96
82) 1,3,5-Trimethylbenzene	15.069	105	10885	0.49 ug/l	97
83) sec-Butylbenzene	15.651	105	13317	0.56 ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	13776	0.83 ug/l	98
85) 4-Isopropyltoluene	15.769	119	10147	0.49 ug/l	92
86) 1,4-Dichlorobenzene	15.985	146	19120	1.06 ug/l	91
87) tert-Butylbenzene	15.425	91	7119	0.65 ug/l	85
88) n-Butylbenzene	16.211	91	11991	0.68 ug/l	93
89) 1,2-Dichlorobenzene	16.427	146	14242	0.85 ug/l	98
90) 1,2,4-Trimethylbenzene	15.478	105	12206	0.50 ug/l	90
91) 1,2-Dibromo-3-Chloropr...	17.343	75	1070	0.89 ug/l	74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003815.D
Acq On : 8 Oct 2009 9:33 am
Operator : AnjanaP
Sample : ic168-1
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:44:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:43:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trichlorobenzene	18.388	180	6131	0.84	ug/l	87
93) Hexachlorobutadiene	18.474	225	5448	1.49	ug/l	96
94) Naphthalene	18.798	128	8601	0.60	ug/l	96
95) 1,2,3-Trichlorobenzene	19.164	180	4403	0.81	ug/l	82
97) TPH-GRO (C6-C10)	11.619	TIC	-3224466m	Below Cal		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

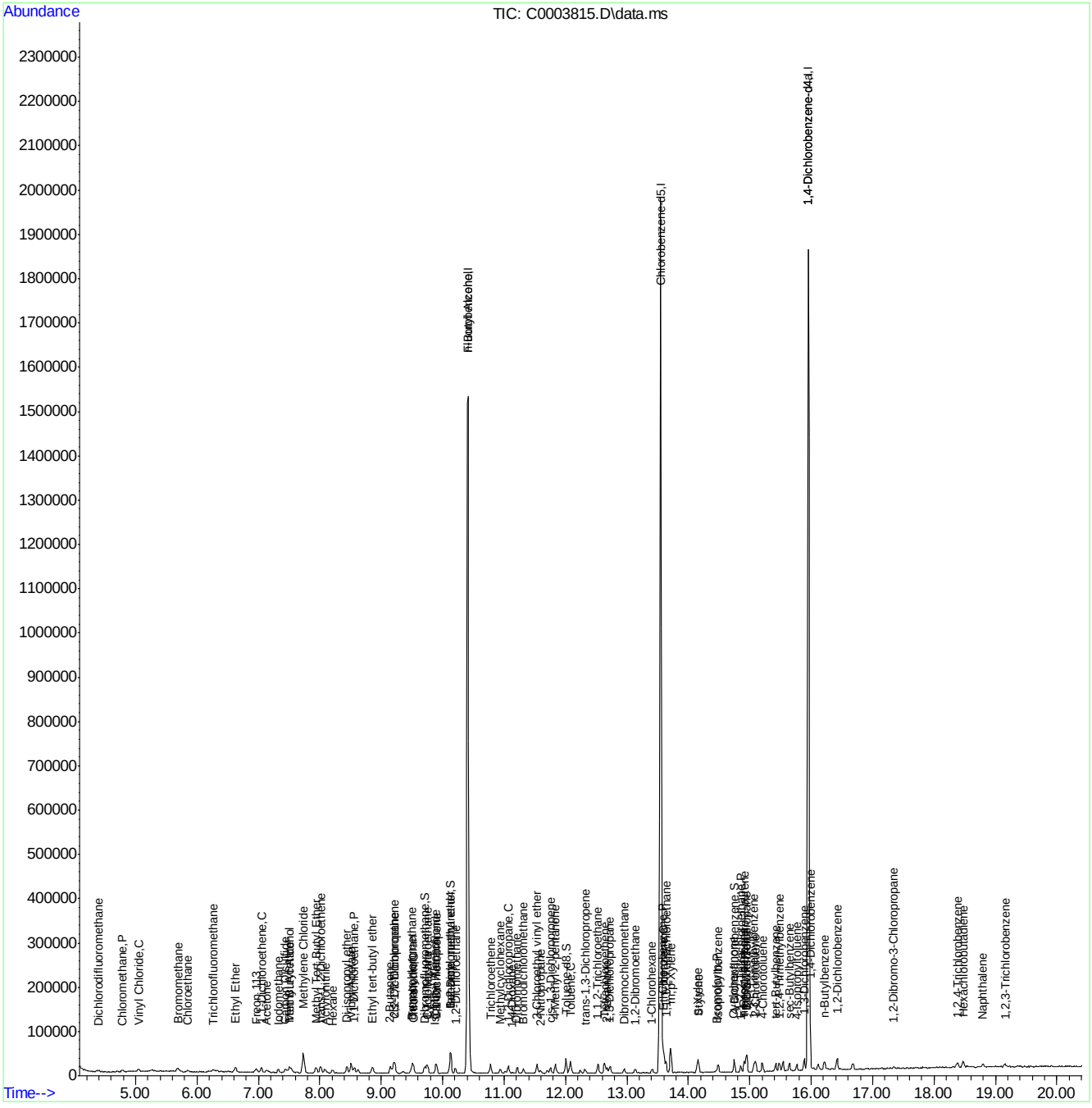
6.6.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003815.D
Acq On : 8 Oct 2009 9:33 am
Operator : AnjanaP
Sample : ic168-1
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:44:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:43:53 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003816.D
Acq On : 8 Oct 2009 10:01 am
Operator : AnjanaP
Sample : ic168-2
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:45:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:45:35 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1601879	50.00	ug/kg	-0.01
53) Chlorobenzene-d5	13.550	117	1281303	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	609131	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	609131	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.713	113	16312	1.84	ug/l	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 3.68%#			
39) 1,2-Dichloroethane-d4	10.122	65	17857	1.88	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 3.76%#			
54) Toluene-d8	12.008	98	47924	1.74	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.48%#			
74) 4-Bromofluorobenzene	14.746	95	16329	1.53	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.06%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	12319	1.89	ug/l	98
3) Chloromethane	4.777	50	12634	2.01	ug/l	87
4) Vinyl Chloride	5.036	62	12164	1.93	ug/l	96
5) Bromomethane	5.682	94	11965	2.05	ug/l	100
6) Chloroethane	5.844	64	7668	1.72	ug/l	86
7) Trichlorofluoromethane	6.264	101	20193	1.96	ug/l	98
8) Ethyl Ether	6.620	59	10238	1.71	ug/l	94
9) Acrolein	6.954	56	380	4.80	ug/l #	18
10) 1,1-Dichloroethene	7.051	61	17310	1.67	ug/l	97
11) Freon 113	6.954	101	13190	1.98	ug/l	91
12) Acetone	7.137	43	20419	9.85	ug/l	95
13) Iodomethane	7.320	142	22945	1.77	ug/l	96
14) Methyl Acetate	7.504	43	43171	9.96	ug/l	98
15) Carbon Disulfide	7.439	76	42338	1.84	ug/l	100
16) Methylene Chloride	7.730	49	37056	1.95	ug/l	97
17) Tert Butyl Alcohol	7.504	59	3947	20.74	ug/l #	68
18) trans-1,2-Dichloroethene	8.010	61	18307	1.80	ug/l	94
19) Acrylonitrile	8.075	53	19489	9.54	ug/l	96
20) Methyl Tert Butyl Ether	7.935	73	28215	1.71	ug/l	88
21) Hexane	8.193	57	6022	1.68	ug/l	93
22) 1,1-Dichloroethane	8.560	63	26064	1.89	ug/l	97
23) Vinyl Acetate	8.506	43	89211	8.89	ug/l	97
24) Di-isopropyl ether	8.441	45	27502	1.71	ug/l	88
25) Ethyl tert-butyl ether	8.851	59	28299	1.71	ug/l	96
26) 2,2-Dichloropropane	9.196	77	17542	1.88	ug/l	99
27) cis-1,2-Dichloroethene	9.217	96	14602	1.70	ug/l	94
28) 2-Butanone	9.142	43	64227	9.31	ug/l	100
29) Bromochloromethane	9.497	128	9949	1.99	ug/l	95
30) Chloroform	9.519	83	29231	1.78	ug/l	96
31) Tetrahydrofuran	9.497	42	2523	1.81	ug/l #	65
32) 1,1,1-Trichloroethane	9.735	97	19967	1.92	ug/l	95
34) Cyclohexane	9.756	56	9244	1.66	ug/l	90
35) n-Butyl Alcohol	10.392	43	393	9.21	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003816.D
Acq On : 8 Oct 2009 10:01 am
Operator : AnjanaP
Sample : ic168-2
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:45:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:45:35 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	13322	1.70	ug/l	97
37) Isobutyl Alcohol	9.875	43	2819	19.59	ug/L	96
38) Carbon Tetrachloride	9.885	117	16977	1.86	ug/l	98
40) Benzene	10.133	78	61095	1.92	ug/l	97
41) 1,2-Dichloroethane	10.198	62	20390	1.96	ug/l	92
42) tert-amyl methyl ether	10.122	73	25624	1.66	ug/l	89
43) Trichloroethene	10.780	95	14780	1.91	ug/l	98
44) Methylcyclohexane	10.931	83	7163	1.05	ug/l	82
45) 1,2-Dichloropropane	11.071	63	14152	1.86	ug/l	98
46) Dibromomethane	11.211	93	10077	1.91	ug/l	96
47) 1,4-Dioxane	11.136	88	2244	38.45	ug/l	86
48) Bromodichloromethane	11.308	83	18594	1.70	ug/l	97
49) 2-Nitropropane	11.588	41	12242	10.07	ug/l	88
50) 2-Chloroethyl vinyl ether	11.534	63	26578	8.03	ug/l	95
51) 4-Methyl-2-pentanone	11.836	43	36434	8.81	ug/l	96
52) cis-1,3-Dichloropropene	11.750	75	18353	1.71	ug/l	98
55) Toluene	12.073	91	53695	1.80	ug/l	96
56) trans-1,3-Dichloropropene	12.321	75	15027	1.74	ug/l	93
57) 1,1,2-Trichloroethane	12.526	83	13184	1.92	ug/l	97
58) Tetrachloroethene	12.634	166	15955	1.89	ug/l	97
59) 2-hexanone	12.677	43	22110	8.39	ug/l	91
60) 1,3-Dichloropropane	12.720	76	23016	1.91	ug/l	98
61) Dibromochloromethane	12.957	129	13912	1.96	ug/l	94
62) 1,2-Dibromoethane	13.129	107	13973	1.98	ug/l	93
63) 1-Chlorohexane	13.409	91	6381	1.49	ug/l	91
64) Chlorobenzene	13.582	112	49444	2.01	ug/l	99
65) 1,1,1,2-Tetrachloroethane	13.636	131	16476	2.03	ug/l	88
66) Ethylbenzene	13.603	91	59395	1.80	ug/l	95
67) m,p-Xylene	13.711	91	74615	3.39	ug/l	99
68) o-Xylene	14.153	91	32248	1.59	ug/l	95
69) Styrene	14.164	104	24770	1.53	ug/l	89
70) Bromoform	14.466	173	8796	1.84	ug/kg	90
72) Isopropylbenzene	14.487	105	26162	1.54	ug/l	99
73) Cyclohexanone	14.735	55	2269	21.62	ug/l #	77
75) Bromobenzene	14.951	156	19044	1.86	ug/l	98
76) 1,1,2,2-Tetrachloroethane	14.854	83	17515	1.86	ug/l	97
77) Trans-1,4-Dichloro-2-b...	14.918	53	3252	1.67	ug/l #	82
78) 1,2,3-Trichloropropane	14.951	110	5619	2.22	ug/l	90
79) n-Propylbenzene	14.907	91	35155	1.56	ug/l	96
80) 2-Chlorotoluene	15.091	91	35719	1.80	ug/l	97
81) 4-Chlorotoluene	15.198	91	31216	1.72	ug/l	96
82) 1,3,5-Trimethylbenzene	15.069	105	23519	1.53	ug/l	98
83) sec-Butylbenzene	15.651	105	27482	1.56	ug/l	94
84) 1,3-Dichlorobenzene	15.888	146	28982	1.87	ug/l	96
85) 4-Isopropyltoluene	15.770	119	21820	1.54	ug/l	92
86) 1,4-Dichlorobenzene	15.985	146	36179	1.91	ug/l	96
87) tert-Butylbenzene	15.425	91	13592	1.56	ug/l	95
88) n-Butylbenzene	16.211	91	23737	1.63	ug/l	93
89) 1,2-Dichlorobenzene	16.427	146	30079	1.91	ug/l	96
90) 1,2,4-Trimethylbenzene	15.479	105	25536	1.52	ug/l	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003816.D
Acq On : 8 Oct 2009 10:01 am
Operator : AnjanaP
Sample : ic168-2
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:45:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:45:35 2009
Response via : Initial Calibration

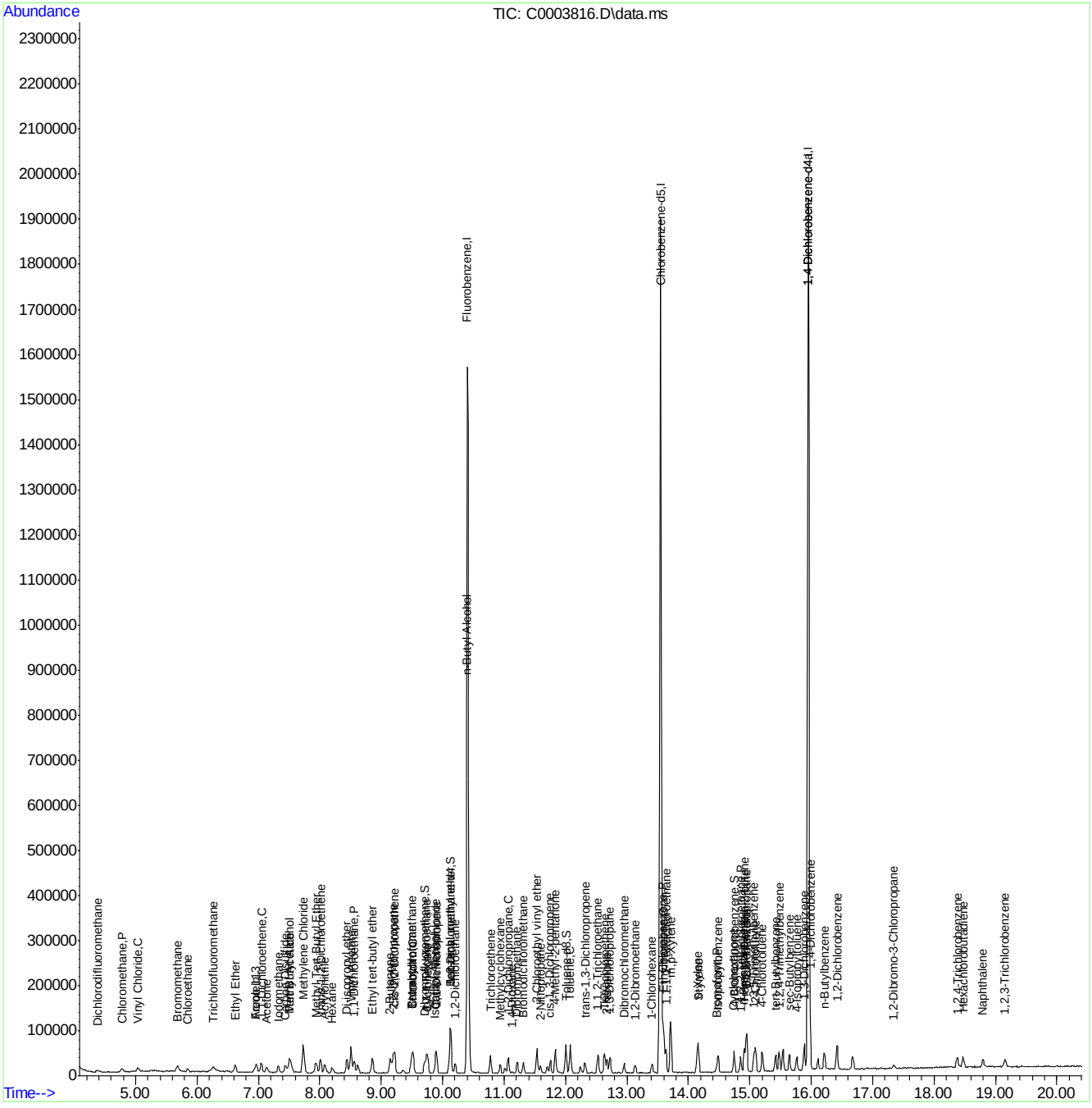
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	2268	1.96	ug/l	83
92) 1,2,4-Trichlorobenzene	18.388	180	11698	1.73	ug/l	93
93) Hexachlorobutadiene	18.475	225	7613	1.64	ug/l	94
94) Naphthalene	18.798	128	18816	1.67	ug/l	90
95) 1,2,3-Trichlorobenzene	19.154	180	8824	1.77	ug/l	95
97) TPH-GRO (C6-C10)	11.619	TIC	-1552105m	0.96	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003816.D
Acq On : 8 Oct 2009 10:01 am
Operator : AnjanaP
Sample : ic168-2
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:45:45 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:45:35 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003817.D
Acq On : 8 Oct 2009 10:30 am
Operator : AnjanaP
Sample : ic168-5
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:46:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:46:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1616504	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1297618	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	616551	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	616551	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.713	113	41333	4.75	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 9.50%#			
39) 1,2-Dichloroethane-d4	10.123	65	46898	4.99	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 9.98%#			
54) Toluene-d8	12.008	98	131524	4.92	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 9.84%#			
74) 4-Bromofluorobenzene	14.746	95	43844	4.40	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 8.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.389	85	32980	5.11	ug/l	97
3) Chloromethane	4.777	50	32627	5.13	ug/l	98
4) Vinyl Chloride	5.036	62	31188	4.97	ug/l	94
5) Bromomethane	5.682	94	28663	4.83	ug/l	93
6) Chloroethane	5.844	64	21338	4.97	ug/l	93
7) Trichlorofluoromethane	6.264	101	53410	5.18	ug/l	92
8) Ethyl Ether	6.620	59	29389	5.11	ug/l	94
9) Acrolein	6.943	56	1621	25.09	ug/l	63
10) 1,1-Dichloroethene	7.051	61	50262	4.74	ug/l	95
11) Freon 113	6.965	101	35083	5.23	ug/l	97
12) Acetone	7.127	43	44406	21.33	ug/l	96
13) Iodomethane	7.321	142	63413	4.63	ug/l	98
14) Methyl Acetate	7.504	43	112367	25.73	ug/l	99
15) Carbon Disulfide	7.439	76	111430	4.94	ug/l	99
16) Methylene Chloride	7.730	49	67677	5.01	ug/l	99
17) Tert Butyl Alcohol	7.504	59	9525	48.99	ug/l	97
18) trans-1,2-Dichloroethene	8.010	61	51238	4.75	ug/l	97
19) Acrylonitrile	8.075	53	53597	23.83	ug/l	98
20) Methyl Tert Butyl Ether	7.935	73	78612	4.08	ug/l	96
21) Hexane	8.204	57	18014	4.52	ug/l	95
22) 1,1-Dichloroethane	8.560	63	73178	5.36	ug/l	96
23) Vinyl Acetate	8.506	43	288696	23.43	ug/l	99
24) Di-isopropyl ether	8.441	45	79280	4.17	ug/l	89
25) Ethyl tert-butyl ether	8.851	59	83821	4.22	ug/l	97
26) 2,2-Dichloropropane	9.206	77	47187	5.11	ug/l	96
27) cis-1,2-Dichloroethene	9.217	96	42779	4.79	ug/l	98
28) 2-Butanone	9.142	43	174500	22.67	ug/l	100
29) Bromochloromethane	9.497	128	26348	5.23	ug/l	98
30) Chloroform	9.519	83	78435	4.90	ug/l	98
31) Tetrahydrofuran	9.497	42	6811	4.27	ug/l #	46
32) 1,1,1-Trichloroethane	9.735	97	53825	5.20	ug/l	97
34) Cyclohexane	9.756	56	28451	4.26	ug/l	90
35) n-Butyl Alcohol	10.403	43	624	17.95	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003817.D
Acq On : 8 Oct 2009 10:30 am
Operator : AnjanaP
Sample : ic168-5
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:46:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:46:14 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	40474	4.44	ug/l	97
37) Isobutyl Alcohol	9.875	43	7359	42.49	ug/L #	92
38) Carbon Tetrachloride	9.896	117	47334	5.25	ug/l	97
40) Benzene	10.133	78	170954	5.03	ug/l	97
41) 1,2-Dichloroethane	10.198	62	55316	5.30	ug/l	95
42) tert-amyl methyl ether	10.123	73	80782	4.20	ug/l	93
43) Trichloroethene	10.780	95	38471	5.01	ug/l	96
44) Methylcyclohexane	10.931	83	22767	3.81	ug/l	95
45) 1,2-Dichloropropane	11.071	63	37038	4.93	ug/l	89
46) Dibromomethane	11.211	93	27084	5.17	ug/l	99
47) 1,4-Dioxane	11.136	88	5660	77.68	ug/l	87
48) Bromodichloromethane	11.308	83	48602	4.64	ug/l	99
49) 2-Nitropropane	11.588	41	33496	24.08	ug/l	90
50) 2-Chloroethyl vinyl ether	11.534	63	89209	20.75	ug/l	98
51) 4-Methyl-2-pentanone	11.836	43	114166	22.57	ug/l	96
52) cis-1,3-Dichloropropene	11.761	75	53853	4.31	ug/l	98
55) Toluene	12.073	91	156758	4.69	ug/l	99
56) trans-1,3-Dichloropropene	12.321	75	44170	4.34	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	33535	4.88	ug/l	95
58) Tetrachloroethene	12.634	166	41415	4.94	ug/l	98
59) 2-hexanone	12.677	43	70414	20.98	ug/l	95
60) 1,3-Dichloropropane	12.720	76	65074	4.93	ug/l	96
61) Dibromochloromethane	12.957	129	36309	4.50	ug/l	98
62) 1,2-Dibromoethane	13.129	107	35034	4.50	ug/l	100
63) 1-Chlorohexane	13.409	91	18591	3.59	ug/l	86
64) Chlorobenzene	13.582	112	125851	5.04	ug/l	97
65) 1,1,1,2-Tetrachloroethane	13.636	131	40066	4.86	ug/l	97
66) Ethylbenzene	13.603	91	156728	4.52	ug/l	97
67) m,p-Xylene	13.711	91	230306	8.25	ug/l	99
68) o-Xylene	14.153	91	97284	3.99	ug/l	93
69) Styrene	14.164	104	86007	4.06	ug/l	97
70) Bromoform	14.466	173	23285	4.33	ug/kg	96
72) Isopropylbenzene	14.487	105	77822	3.86	ug/l	99
73) Cyclohexanone	14.735	55	5597	43.48	ug/l	91
75) Bromobenzene	14.951	156	54347	4.93	ug/l	96
76) 1,1,2,2-Tetrachloroethane	14.854	83	47455	5.10	ug/l	96
77) Trans-1,4-Dichloro-2-b...	14.907	53	9939	4.39	ug/l #	78
78) 1,2,3-Trichloropropane	14.951	110	16847	6.34	ug/l	96
79) n-Propylbenzene	14.907	91	112735	4.18	ug/l	98
80) 2-Chlorotoluene	15.091	91	113131	4.87	ug/l	96
81) 4-Chlorotoluene	15.209	91	94850	4.51	ug/l	99
82) 1,3,5-Trimethylbenzene	15.069	105	78062	4.05	ug/l	100
83) sec-Butylbenzene	15.651	105	89342	4.22	ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	80637	4.89	ug/l	99
85) 4-Isopropyltoluene	15.770	119	69851	3.96	ug/l	97
86) 1,4-Dichlorobenzene	15.985	146	93075	4.92	ug/l	94
87) tert-Butylbenzene	15.425	91	39227	4.01	ug/l	92
88) n-Butylbenzene	16.211	91	69777	4.28	ug/l	97
89) 1,2-Dichlorobenzene	16.427	146	79111	4.76	ug/l	97
90) 1,2,4-Trimethylbenzene	15.479	105	88494	4.18	ug/l	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003817.D
Acq On : 8 Oct 2009 10:30 am
Operator : AnjanaP
Sample : ic168-5
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:46:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:46:14 2009
Response via : Initial Calibration

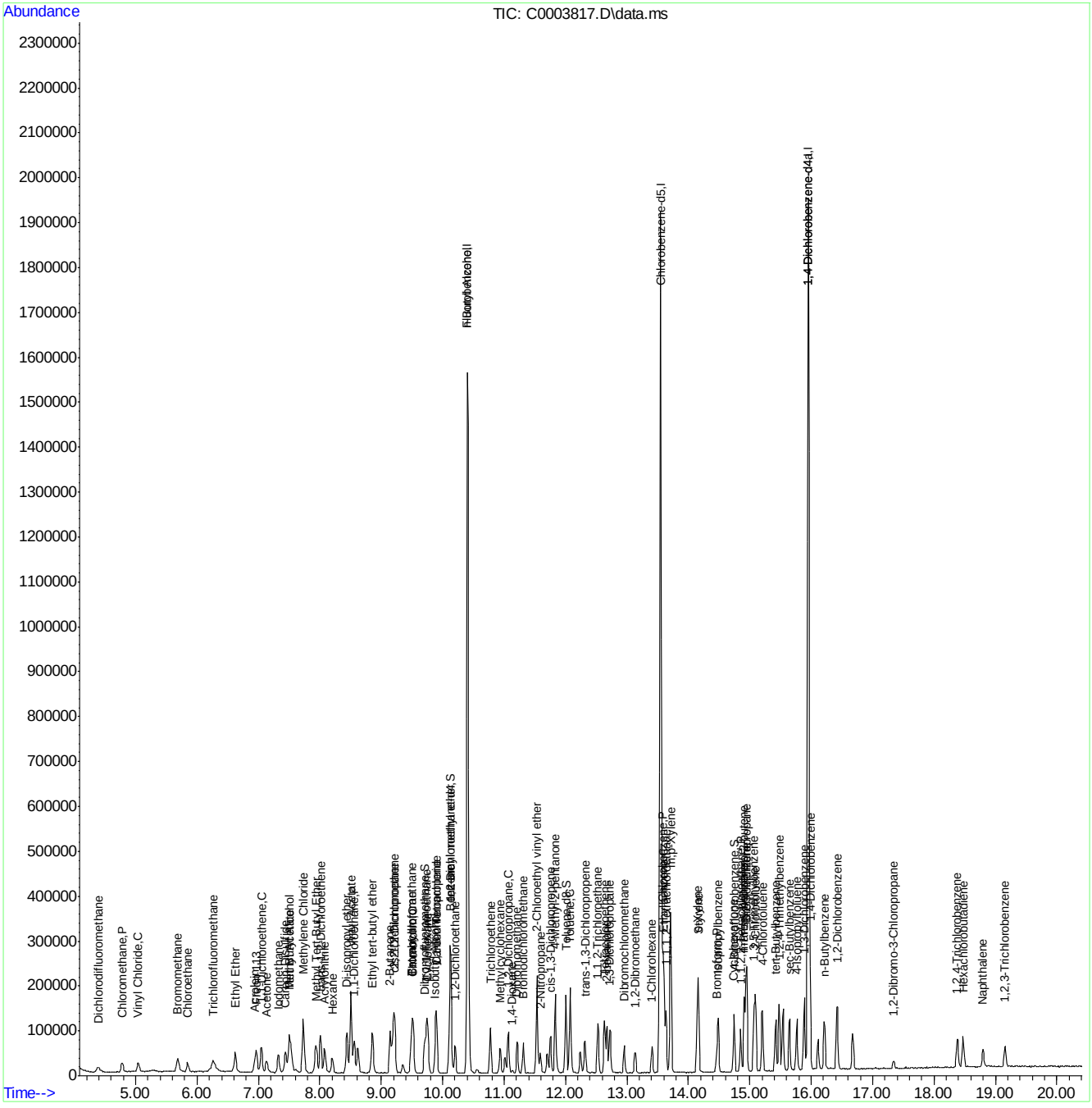
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	5442	4.67 ug/l	94
92) 1,2,4-Trichlorobenzene	18.378	180	32070	4.53 ug/l	94
93) Hexachlorobutadiene	18.475	225	20088	4.54 ug/l	92
94) Naphthalene	18.798	128	47668	3.73 ug/l	96
95) 1,2,3-Trichlorobenzene	19.154	180	23525	4.45 ug/l	96
97) TPH-GRO (C6-C10)	11.619	TIC	8978366m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003817.D
Acq On : 8 Oct 2009 10:30 am
Operator : AnjanaP
Sample : ic168-5
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:46:29 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:46:14 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003818.D
Acq On : 8 Oct 2009 10:58 am
Operator : AnjanaP
Sample : ic168-20
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 12:47:11 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:47:00 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1618577	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1327438	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	632569	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	632569	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	146532	17.04	ug/l	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 34.08%#			
39) 1,2-Dichloroethane-d4	10.123	65	162381	17.27	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 34.54%#			
54) Toluene-d8	12.008	98	505978	18.58	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 37.16%#			
74) 4-Bromofluorobenzene	14.746	95	178250	17.97	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 35.94%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.389	85	120159	18.50	ug/l	94
3) Chloromethane	4.777	50	102773	16.04	ug/l	100
4) Vinyl Chloride	5.036	62	107305	17.09	ug/l	99
5) Bromomethane	5.693	94	95807	16.26	ug/l	94
6) Chloroethane	5.844	64	69601	16.22	ug/l	97
7) Trichlorofluoromethane	6.254	101	183010	17.56	ug/l	96
8) Ethyl Ether	6.620	59	101598	17.54	ug/l	99
9) Acrolein	6.954	56	5905	77.21	ug/l	76
10) 1,1-Dichloroethene	7.051	61	185105	16.71	ug/l	98
11) Freon 113	6.965	101	121788	17.92	ug/l	97
12) Acetone	7.127	43	154154	76.77	ug/l	96
13) Iodomethane	7.331	142	236776	16.53	ug/l	99
14) Methyl Acetate	7.504	43	420981	95.57	ug/l	99
15) Carbon Disulfide	7.439	76	410854	18.24	ug/l	100
16) Methylene Chloride	7.730	49	192895	17.53	ug/l	99
17) Tert Butyl Alcohol	7.504	59	38998	201.33	ug/l	97
18) trans-1,2-Dichloroethene	8.010	61	192458	17.08	ug/l	99
19) Acrylonitrile	8.075	53	208013	88.00	ug/l	100
20) Methyl Tert Butyl Ether	7.935	73	353043	16.45	ug/l	97
21) Hexane	8.204	57	72945	16.93	ug/l	98
22) 1,1-Dichloroethane	8.560	63	250843	18.02	ug/l	99
23) Vinyl Acetate	8.506	43	1203782	88.11	ug/l	99
24) Di-isopropyl ether	8.441	45	348649	16.48	ug/l	98
25) Ethyl tert-butyl ether	8.851	59	367794	16.53	ug/l	98
26) 2,2-Dichloropropane	9.206	77	175844	18.90	ug/l	97
27) cis-1,2-Dichloroethene	9.217	96	160564	17.20	ug/l	99
28) 2-Butanone	9.142	43	732489	89.31	ug/l	100
29) Bromochloromethane	9.497	128	92934	18.21	ug/l	99
30) Chloroform	9.519	83	263327	16.52	ug/l	99
31) Tetrahydrofuran	9.497	42	30676	17.62	ug/l	90
32) 1,1,1-Trichloroethane	9.745	97	197784	18.90	ug/l	98
34) Cyclohexane	9.756	56	129292	17.24	ug/l	96
35) n-Butyl Alcohol	10.554	43	10936	179.14	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003818.D
Acq On : 8 Oct 2009 10:58 am
Operator : AnjanaP
Sample : ic168-20
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 12:47:11 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:47:00 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	177972	17.72	ug/l	99
37) Isobutyl Alcohol	9.875	43	34194	178.81	ug/L	98
38) Carbon Tetrachloride	9.885	117	175825	19.24	ug/l	96
40) Benzene	10.133	78	623513	17.74	ug/l	99
41) 1,2-Dichloroethane	10.198	62	197079	18.58	ug/l	99
42) tert-amyl methyl ether	10.112	73	365671	16.66	ug/l	96
43) Trichloroethene	10.769	95	137157	17.83	ug/l	99
44) Methylcyclohexane	10.931	83	104100	16.03	ug/l	98
45) 1,2-Dichloropropane	11.071	63	144158	19.24	ug/l	99
46) Dibromomethane	11.211	93	97627	18.46	ug/l	98
47) 1,4-Dioxane	11.136	88	27049	324.61	ug/l	97
48) Bromodichloromethane	11.308	83	182761	17.75	ug/l	100
49) 2-Nitropropane	11.588	41	121742	82.77	ug/l	98
50) 2-Chloroethyl vinyl ether	11.534	63	434456	86.61	ug/l	99
51) 4-Methyl-2-pentanone	11.836	43	502627	89.09	ug/l	100
52) cis-1,3-Dichloropropene	11.761	75	223542	16.28	ug/l	98
55) Toluene	12.073	91	625841	17.15	ug/l	99
56) trans-1,3-Dichloropropene	12.321	75	193823	16.92	ug/l	97
57) 1,1,2-Trichloroethane	12.526	83	122540	17.54	ug/l	98
58) Tetrachloroethene	12.634	166	152040	17.78	ug/l	99
59) 2-hexanone	12.677	43	346183	87.73	ug/l	99
60) 1,3-Dichloropropane	12.720	76	246544	17.47	ug/l	99
61) Dibromochloromethane	12.957	129	143715	16.44	ug/l	97
62) 1,2-Dibromoethane	13.129	107	142713	17.13	ug/l	99
63) 1-Chlorohexane	13.409	91	94522	15.18	ug/l	94
64) Chlorobenzene	13.582	112	447019	17.47	ug/l	99
65) 1,1,1,2-Tetrachloroethane	13.636	131	152390	18.19	ug/l	98
66) Ethylbenzene	13.603	91	625726	16.98	ug/l	98
67) m,p-Xylene	13.711	91	958779	33.97	ug/l	99
68) o-Xylene	14.153	91	457314	16.10	ug/l	97
69) Styrene	14.164	104	419029	16.52	ug/l	99
70) Bromoform	14.466	173	93645	15.95	ug/kg	98
72) Isopropylbenzene	14.487	105	381292	16.08	ug/l	99
73) Cyclohexanone	14.735	55	24979	173.51	ug/l	99
75) Bromobenzene	14.951	156	203448	17.25	ug/l	99
76) 1,1,2,2-Tetrachloroethane	14.854	83	183660	19.16	ug/l	97
77) Trans-1,4-Dichloro-2-b...	14.907	53	44025	17.21	ug/l	90
78) 1,2,3-Trichloropropane	14.951	110	58616	20.16	ug/l	96
79) n-Propylbenzene	14.907	91	531995	16.98	ug/l	99
80) 2-Chlorotoluene	15.091	91	454244	17.60	ug/l	99
81) 4-Chlorotoluene	15.198	91	400645	17.01	ug/l	95
82) 1,3,5-Trimethylbenzene	15.069	105	382252	16.70	ug/l	100
83) sec-Butylbenzene	15.651	105	413458	16.84	ug/l	98
84) 1,3-Dichlorobenzene	15.888	146	303273	17.28	ug/l	99
85) 4-Isopropyltoluene	15.770	119	346303	16.52	ug/l	99
86) 1,4-Dichlorobenzene	15.985	146	332978	17.23	ug/l	98
87) tert-Butylbenzene	15.425	91	186190	16.67	ug/l	98
88) n-Butylbenzene	16.211	91	306645	16.78	ug/l	99
89) 1,2-Dichlorobenzene	16.427	146	299052	17.07	ug/l	98
90) 1,2,4-Trimethylbenzene	15.479	105	424476	16.97	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003818.D
Acq On : 8 Oct 2009 10:58 am
Operator : AnjanaP
Sample : ic168-20
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 12:47:11 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:47:00 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	22163	18.85 ug/l	96
92) 1,2,4-Trichlorobenzene	18.378	180	127135	16.75 ug/l	96
93) Hexachlorobutadiene	18.475	225	73787	16.64 ug/l	99
94) Naphthalene	18.798	128	227649	15.55 ug/l	99
95) 1,2,3-Trichlorobenzene	19.154	180	97268	17.08 ug/l	97
97) TPH-GRO (C6-C10)	11.619	TIC	50621987m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.4

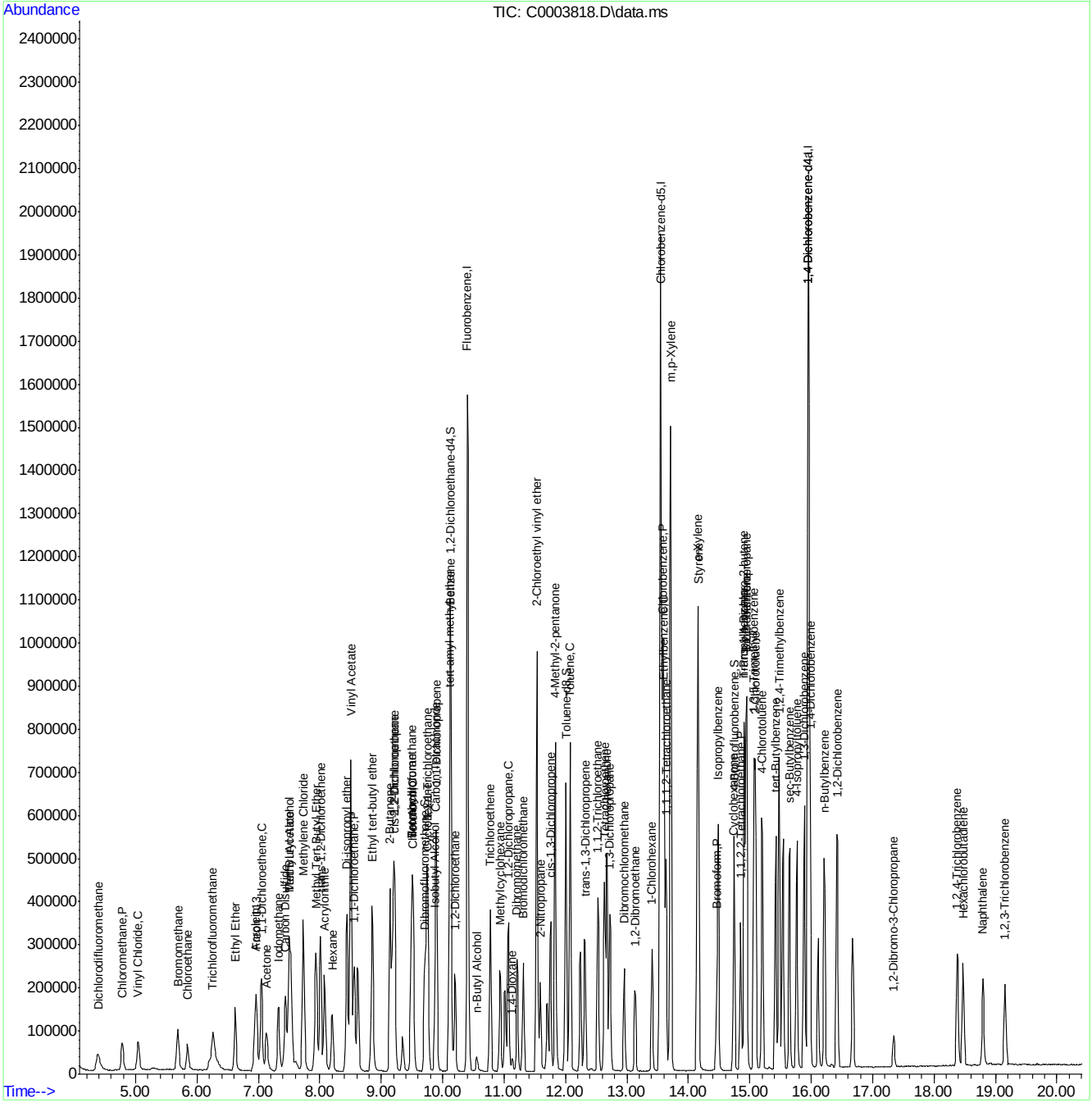
6

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003818.D
Acq On : 8 Oct 2009 10:58 am
Operator : AnjanaP
Sample : ic168-20
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 12:47:11 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:47:00 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003819.D
Acq On : 8 Oct 2009 11:26 am
Operator : AnjanaP
Sample : icc168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 12:58:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1623571	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1337144	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	655498	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	655498	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	342966	41.49	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 82.98%			
39) 1,2-Dichloroethane-d4	10.123	65	368984	41.25	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.50%			
54) Toluene-d8	12.009	98	1228054	44.50	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.00%			
74) 4-Bromofluorobenzene	14.746	95	460368	44.46	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.389	85	266378	41.40	ug/l	100
3) Chloromethane	4.788	50	243943	40.71	ug/l	100
4) Vinyl Chloride	5.047	62	248909	41.73	ug/l	100
5) Bromomethane	5.693	94	213010	49.36	ug/l	100
6) Chloroethane	5.844	64	155817	45.52	ug/l	100
7) Trichlorofluoromethane	6.264	101	401777	39.99	ug/l	100
8) Ethyl Ether	6.620	59	246666	42.92	ug/l	100
9) Acrolein	6.943	56	16033	201.26	ug/l	100
10) 1,1-Dichloroethene	7.051	61	450569	43.71	ug/l	100
11) Freon 113	6.954	101	276400	41.45	ug/l	100
12) Acetone	7.127	43	344136	204.36	ug/l	100
13) Iodomethane	7.331	142	583907	44.31	ug/l	100
14) Methyl Acetate	7.493	43	962074	217.03	ug/l	100
15) Carbon Disulfide	7.439	76	956491	42.37	ug/l	100
16) Methylene Chloride	7.730	49	418729	42.82	ug/l	100
17) Tert Butyl Alcohol	7.504	59	87105	436.15	ug/l	100
18) trans-1,2-Dichloroethene	8.010	61	457946	44.54	ug/l	100
19) Acrylonitrile	8.075	53	480564	223.39	ug/l	100
20) Methyl Tert Butyl Ether	7.935	73	891140	40.34	ug/l	100
21) Hexane	8.204	57	176862	40.59	ug/l	100
22) 1,1-Dichloroethane	8.560	63	577531	42.40	ug/l	100
23) Vinyl Acetate	8.495	43	2808916	223.56	ug/l	100
24) Di-isopropyl ether	8.441	45	877868	41.68	ug/l	100
25) Ethyl tert-butyl ether	8.851	59	923321	40.90	ug/l	100
26) 2,2-Dichloropropane	9.196	77	401474	43.01	ug/l	100
27) cis-1,2-Dichloroethene	9.217	96	379355	44.79	ug/l	100
28) 2-Butanone	9.142	43	1675282	229.86	ug/l	100
29) Bromochloromethane	9.498	128	212936	42.38	ug/l	100
30) Chloroform	9.519	83	605040	40.06	ug/l	100
31) Tetrahydrofuran	9.498	42	71656	41.61	ug/l	100
32) 1,1,1-Trichloroethane	9.735	97	473129	44.12	ug/l	100
34) Cyclohexane	9.756	56	310503	40.97	ug/l	100
35) n-Butyl Alcohol	10.554	43	26223	374.02	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003819.D
Acq On : 8 Oct 2009 11:26 am
Operator : AnjanaP
Sample : icc168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 12:58:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	413262	41.76	ug/l	100
37) Isobutyl Alcohol	9.864	43	78792	384.04	ug/L	100
38) Carbon Tetrachloride	9.885	117	405117	43.28	ug/l	100
40) Benzene	10.133	78	1420015	44.15	ug/l	100
41) 1,2-Dichloroethane	10.198	62	454150	42.99	ug/l	100
42) tert-amyl methyl ether	10.112	73	913844	41.23	ug/l	100
43) Trichloroethene	10.769	95	336473	43.27	ug/l	100
44) Methylcyclohexane	10.931	83	269843	39.55	ug/l	100
45) 1,2-Dichloropropane	11.071	63	341296	44.83	ug/l	100
46) Dibromomethane	11.211	93	228192	43.20	ug/l	100
47) 1,4-Dioxane	11.136	88	69711	789.61	ug/l	100
48) Bromodichloromethane	11.308	83	444381	42.87	ug/l	100
49) 2-Nitropropane	11.588	41	299742	173.48	ug/l	100
50) 2-Chloroethyl vinyl ether	11.534	63	1045155	223.92	ug/l	100
51) 4-Methyl-2-pentanone	11.836	43	1161714	215.95	ug/l	100
52) cis-1,3-Dichloropropene	11.761	75	568204	41.31	ug/l	100
55) Toluene	12.073	91	1497862	42.72	ug/l	100
56) trans-1,3-Dichloropropene	12.310	75	475090	40.49	ug/l	100
57) 1,1,2-Trichloroethane	12.526	83	279784	40.98	ug/l	100
58) Tetrachloroethene	12.634	166	356326	41.69	ug/l	100
59) 2-hexanone	12.666	43	822968	208.67	ug/l	100
60) 1,3-Dichloropropane	12.720	76	574615	44.71	ug/l	100
61) Dibromochloromethane	12.957	129	359661	39.54	ug/l	100
62) 1,2-Dibromoethane	13.129	107	341158	44.52	ug/l	100
63) 1-Chlorohexane	13.410	91	264917	38.86	ug/l	100
64) Chlorobenzene	13.582	112	1056873	42.32	ug/l	100
65) 1,1,1,2-Tetrachloroethane	13.636	131	369503	43.33	ug/l	100
66) Ethylbenzene	13.593	91	1507416	44.88	ug/l	100
67) m,p-Xylene	13.711	91	2299676	85.59	ug/l	100
68) o-Xylene	14.142	91	1192369	41.88	ug/l	100
69) Styrene	14.164	104	1067144	42.36	ug/l	100
70) Bromoform	14.466	173	242761	37.80	ug/kg	100
72) Isopropylbenzene	14.487	105	1026634	41.08	ug/l	100
73) Cyclohexanone	14.735	55	61194	376.40	ug/l	100
75) Bromobenzene	14.951	156	494081	44.53	ug/l	100
76) 1,1,2,2-Tetrachloroethane	14.854	83	420560	42.37	ug/l	100
77) Trans-1,4-Dichloro-2-b...	14.908	53	108989	41.37	ug/l	100
78) 1,2,3-Trichloropropane	14.951	110	130727	43.28	ug/l	100
79) n-Propylbenzene	14.908	91	1344309	42.52	ug/l	100
80) 2-Chlorotoluene	15.091	91	1089499	42.96	ug/l	100
81) 4-Chlorotoluene	15.198	91	1000911	41.91	ug/l	100
82) 1,3,5-Trimethylbenzene	15.069	105	987629	41.66	ug/l	100
83) sec-Butylbenzene	15.640	105	1053636	40.91	ug/l	100
84) 1,3-Dichlorobenzene	15.888	146	734320	43.73	ug/l	100
85) 4-Isopropyltoluene	15.770	119	906203	41.07	ug/l	100
86) 1,4-Dichlorobenzene	15.985	146	793236	41.03	ug/l	100
87) tert-Butylbenzene	15.425	91	479067	40.61	ug/l	100
88) n-Butylbenzene	16.212	91	778833	41.17	ug/l	100
89) 1,2-Dichlorobenzene	16.416	146	733166	43.36	ug/l	100
90) 1,2,4-Trimethylbenzene	15.479	105	1076528	42.26	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003819.D
Acq On : 8 Oct 2009 11:26 am
Operator : AnjanaP
Sample : icc168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 12:58:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

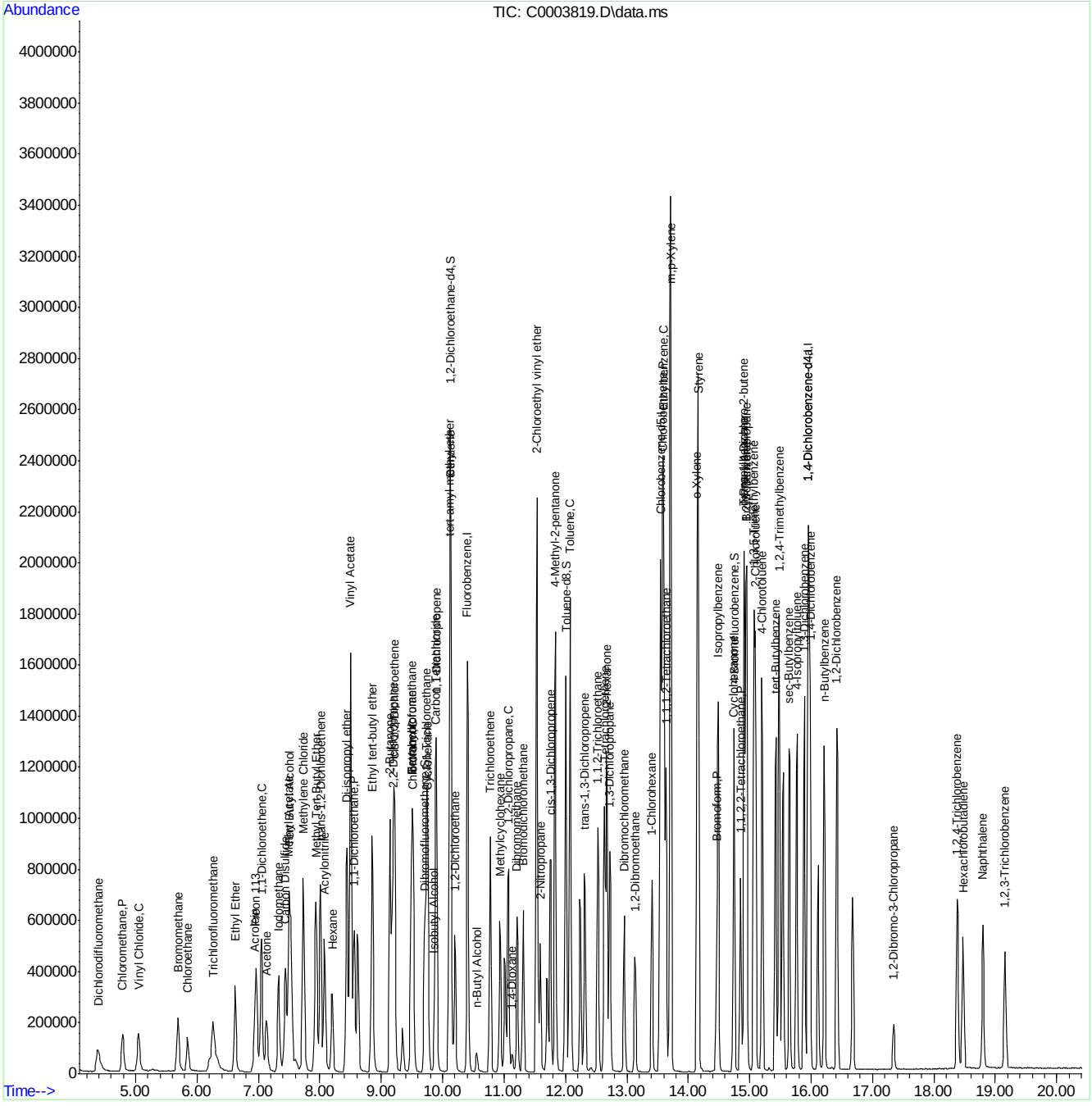
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	52732	41.43 ug/l	100
92) 1,2,4-Trichlorobenzene	18.378	180	320049	43.20 ug/l	100
93) Hexachlorobutadiene	18.475	225	160767	38.41 ug/l	100
94) Naphthalene	18.798	128	633155	37.03 ug/l	100
95) 1,2,3-Trichlorobenzene	19.154	180	240273	43.51 ug/l	100
97) TPH-GRO (C6-C10)	11.619	TIC	126764760m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003819.D
Acq On : 8 Oct 2009 11:26 am
Operator : AnjanaP
Sample : icc168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 12:58:53 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003820.D
Acq On : 8 Oct 2009 11:55 am
Operator : AnjanaP
Sample : ic168-100
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 12:48:21 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:12 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1644462	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1354520	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	669432	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	669432	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	814363	96.03	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 192.06%#			
39) 1,2-Dichloroethane-d4	10.122	65	867635	93.36	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 186.72%#			
54) Toluene-d8	12.008	98	2961006	108.07	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 216.14%#			
74) 4-Bromofluorobenzene	14.746	95	1138943	110.75	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 221.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	663188	102.04	ug/l	97
3) Chloromethane	4.799	50	571821	91.47	ug/l	100
4) Vinyl Chloride	5.047	62	570982	92.20	ug/l	99
5) Bromomethane	5.693	94	452310	78.49	ug/l	98
6) Chloroethane	5.844	64	345975	82.48	ug/l	98
7) Trichlorofluoromethane	6.264	101	982867	95.14	ug/l	98
8) Ethyl Ether	6.620	59	615428	107.20	ug/l	99
9) Acrolein	6.954	56	41486	515.47	ug/l	95
10) 1,1-Dichloroethene	7.051	61	1169653	104.38	ug/l	99
11) Freon 113	6.954	101	693603	102.60	ug/l	98
12) Acetone	7.126	43	864888	444.61	ug/l	99
13) Iodomethane	7.331	142	1503665	103.62	ug/l	99
14) Methyl Acetate	7.504	43	2387949	538.35	ug/l	99
15) Carbon Disulfide	7.439	76	2419143	107.62	ug/l	99
16) Methylene Chloride	7.730	49	991730	97.61	ug/l	99
17) Tert Butyl Alcohol	7.504	59	220591	1119.39	ug/l	97
18) trans-1,2-Dichloroethene	8.010	61	1143601	100.17	ug/l	99
19) Acrylonitrile	8.075	53	1222419	507.99	ug/l	99
20) Methyl Tert Butyl Ether	7.935	73	2331407	104.66	ug/l	98
21) Hexane	8.193	57	468419	105.92	ug/l	97
22) 1,1-Dichloroethane	8.560	63	1411508	101.80	ug/l	99
23) Vinyl Acetate	8.506	43	6770030	479.27	ug/l	99
24) Di-isopropyl ether	8.441	45	2231213	101.71	ug/l	99
25) Ethyl tert-butyl ether	8.851	59	2392599	103.60	ug/l	98
26) 2,2-Dichloropropane	9.196	77	992441	106.16	ug/l	98
27) cis-1,2-Dichloroethene	9.217	96	924374	97.68	ug/l	100
28) 2-Butanone	9.142	43	4205217	499.52	ug/l	100
29) Bromochloromethane	9.497	128	524212	102.94	ug/l	99
30) Chloroform	9.519	83	1501888	96.10	ug/l	98
31) Tetrahydrofuran	9.487	42	185949	103.18	ug/l #	46
32) 1,1,1-Trichloroethane	9.745	97	1192984	113.45	ug/l	98
34) Cyclohexane	9.756	56	807876	103.50	ug/l	100
35) n-Butyl Alcohol	10.554	43	73564	1096.40	ug/L	93

ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003820.D
Acq On : 8 Oct 2009 11:55 am
Operator : AnjanaP
Sample : ic168-100
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 12:48:21 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:12 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	1057970	101.69	ug/l	99
37) Isobutyl Alcohol	9.864	43	216534	1088.99	ug/L	98
38) Carbon Tetrachloride	9.885	117	1038078	112.68	ug/l	99
40) Benzene	10.133	78	3410423	96.09	ug/l	99
41) 1,2-Dichloroethane	10.198	62	1118316	105.29	ug/l	98
42) tert-amyl methyl ether	10.112	73	2385840	104.14	ug/l	96
43) Trichloroethene	10.769	95	860117	112.49	ug/l	99
44) Methylcyclohexane	10.931	83	735829	109.50	ug/l	95
45) 1,2-Dichloropropane	11.071	63	838152	110.92	ug/l	99
46) Dibromomethane	11.211	93	564245	106.64	ug/l	99
47) 1,4-Dioxane	11.135	88	184460	2115.59	ug/l	96
48) Bromodichloromethane	11.308	83	1130418	110.54	ug/l	99
49) 2-Nitropropane	11.588	41	952430	637.86	ug/l	100
50) 2-Chloroethyl vinyl ether	11.534	63	2546770	483.52	ug/l	99
51) 4-Methyl-2-pentanone	11.836	43	2874069	490.79	ug/l	100
52) cis-1,3-Dichloropropene	11.761	75	1461276	103.15	ug/l	100
55) Toluene	12.073	91	3692613	98.63	ug/l	100
56) trans-1,3-Dichloropropene	12.310	75	1240960	104.27	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	696924	100.21	ug/l	99
58) Tetrachloroethene	12.633	166	908201	106.46	ug/l	99
59) 2-hexanone	12.666	43	2105411	506.91	ug/l	98
60) 1,3-Dichloropropane	12.720	76	1400934	97.57	ug/l	100
61) Dibromochloromethane	12.957	129	948719	105.99	ug/l	99
62) 1,2-Dibromoethane	13.129	107	885293	103.90	ug/l	99
63) 1-Chlorohexane	13.409	91	736363	111.61	ug/l	96
64) Chlorobenzene	13.582	112	2572234	101.07	ug/l	99
65) 1,1,1,2-Tetrachloroethane	13.636	131	935221	111.41	ug/l	99
66) Ethylbenzene	13.603	91	3705777	98.64	ug/l	98
67) m,p-Xylene	13.711	91	5685056	198.98	ug/l	100
68) o-Xylene	14.142	91	3042402	102.18	ug/l	99
69) Styrene	14.164	104	2703999	101.01	ug/l	99
70) Bromoform	14.466	173	672365	111.48	ug/kg	100
72) Isopropylbenzene	14.487	105	2695811	104.23	ug/l	97
73) Cyclohexanone	14.735	55	170873	1102.40	ug/l	96
75) Bromobenzene	14.951	156	1215706	97.85	ug/l	100
76) 1,1,2,2-Tetrachloroethane	14.854	83	1052771	104.64	ug/l	99
77) Trans-1,4-Dichloro-2-b...	14.907	53	278384	100.98	ug/l	97
78) 1,2,3-Trichloropropane	14.951	110	319485	103.65	ug/l	100
79) n-Propylbenzene	14.907	91	3416286	100.41	ug/l	99
80) 2-Chlorotoluene	15.091	91	2681982	97.31	ug/l	99
81) 4-Chlorotoluene	15.198	91	2548225	100.88	ug/l	100
82) 1,3,5-Trimethylbenzene	15.069	105	2538322	101.56	ug/l	99
83) sec-Butylbenzene	15.640	105	2782433	104.41	ug/l	98
84) 1,3-Dichlorobenzene	15.888	146	1860513	100.76	ug/l	99
85) 4-Isopropyltoluene	15.770	119	2378606	103.81	ug/l	100
86) 1,4-Dichlorobenzene	15.985	146	1984571	99.78	ug/l	99
87) tert-Butylbenzene	15.425	91	1270790	105.08	ug/l	98
88) n-Butylbenzene	16.211	91	2050944	104.42	ug/l	99
89) 1,2-Dichlorobenzene	16.416	146	1863930	101.28	ug/l	99
90) 1,2,4-Trimethylbenzene	15.479	105	2723709	99.86	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003820.D
Acq On : 8 Oct 2009 11:55 am
Operator : AnjanaP
Sample : ic168-100
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 12:48:21 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:12 2009
Response via : Initial Calibration

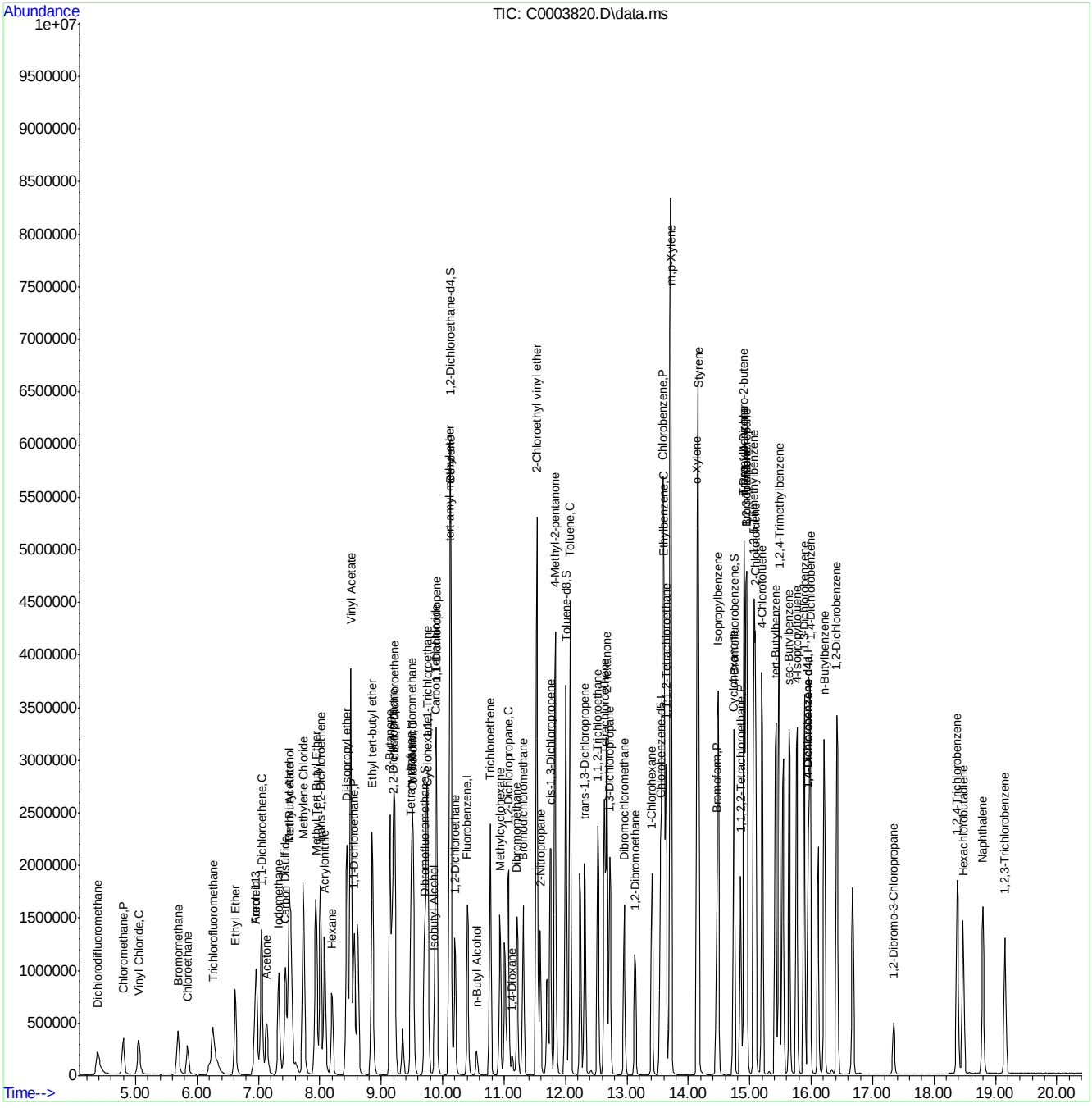
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	143983	117.07 ug/l	94
92) 1,2,4-Trichlorobenzene	18.378	180	886595	110.29 ug/l	97
93) Hexachlorobutadiene	18.475	225	455359	100.40 ug/l	99
94) Naphthalene	18.798	128	1838730	115.69 ug/l	100
95) 1,2,3-Trichlorobenzene	19.154	180	670249	110.73 ug/l	99
97) TPH-GRO (C6-C10)	11.619	TIC	324308648m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003820.D
Acq On : 8 Oct 2009 11:55 am
Operator : AnjanaP
Sample : ic168-100
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 12:48:21 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:12 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003821.D
Acq On : 8 Oct 2009 12:23 pm
Operator : AnjanaP
Sample : ic168-200
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 12:48:52 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1676840	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1364834	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	689987	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	689987	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	1643155	191.29	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 382.58%#			
39) 1,2-Dichloroethane-d4	10.122	65	1688400	180.16	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 360.32%#			
54) Toluene-d8	12.008	98	5858354	209.39	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 418.78%#			
74) 4-Bromofluorobenzene	14.746	95	2313533	214.43	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 428.86%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	1323756	199.06	ug/l	99
3) Chloromethane	4.799	50	1123584	178.80	ug/l	100
4) Vinyl Chloride	5.047	62	1145623	183.81	ug/l	98
5) Bromomethane	5.682	94	800913	141.37	ug/l	99
6) Chloroethane	5.844	64	670523	161.48	ug/l	99
7) Trichlorofluoromethane	6.254	101	1990064	190.46	ug/l	98
8) Ethyl Ether	6.620	59	1200747	202.68	ug/l	99
9) Acrolein	6.943	56	88091	1032.11	ug/l	91
10) 1,1-Dichloroethene	7.051	61	2319827	194.39	ug/l	100
11) Freon 113	6.954	101	1334586	192.77	ug/l	98
12) Acetone	7.137	43	1714983	880.85	ug/l	100
13) Iodomethane	7.331	142	3004902	195.68	ug/l	99
14) Methyl Acetate	7.504	43	4562979	996.11	ug/l	98
15) Carbon Disulfide	7.439	76	4784800	206.12	ug/l	99
16) Methylene Chloride	7.730	49	1888168	187.70	ug/l	99
17) Tert Butyl Alcohol	7.504	59	428423	2090.46	ug/l #	93
18) trans-1,2-Dichloroethene	8.010	61	2209756	188.86	ug/l	98
19) Acrylonitrile	8.075	53	2347637	939.77	ug/l	98
20) Methyl Tert Butyl Ether	7.935	73	4681367	196.31	ug/l	98
21) Hexane	8.193	57	896022	187.54	ug/l	98
22) 1,1-Dichloroethane	8.560	63	2679639	188.96	ug/l	100
23) Vinyl Acetate	8.506	43	12254202	880.41	ug/l	98
24) Di-isopropyl ether	8.441	45	4365365	190.92	ug/l	98
25) Ethyl tert-butyl ether	8.851	59	4725145	192.97	ug/l	99
26) 2,2-Dichloropropane	9.196	77	1940191	201.47	ug/l	100
27) cis-1,2-Dichloroethene	9.217	96	1753986	185.12	ug/l	100
28) 2-Butanone	9.142	43	7988333	927.90	ug/l	100
29) Bromochloromethane	9.497	128	1003523	192.32	ug/l	96
30) Chloroform	9.519	83	2840743	179.42	ug/l	99
31) Tetrahydrofuran	9.487	42	347281	182.75	ug/l #	50
32) 1,1,1-Trichloroethane	9.745	97	2348951	214.26	ug/l	97
34) Cyclohexane	9.756	56	1568134	189.76	ug/l	99
35) n-Butyl Alcohol	10.554	43	160538	2130.51	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003821.D
Acq On : 8 Oct 2009 12:23 pm
Operator : AnjanaP
Sample : ic168-200
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 12:48:52 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	2005491	185.26	ug/l	99
37) Isobutyl Alcohol	9.864	43	441393	2001.03	ug/L	96
38) Carbon Tetrachloride	9.885	117	2024401	211.03	ug/l	99
40) Benzene	10.133	78	6223935	178.00	ug/l	98
41) 1,2-Dichloroethane	10.198	62	2162422	197.91	ug/l	99
42) tert-amyl methyl ether	10.112	73	4574718	187.42	ug/l	96
43) Trichloroethene	10.769	95	1692466	212.65	ug/l	98
44) Methylcyclohexane	10.931	83	1443926	192.53	ug/l	97
45) 1,2-Dichloropropane	11.071	63	1594417	203.24	ug/l	99
46) Dibromomethane	11.211	93	1091832	200.15	ug/l	97
47) 1,4-Dioxane	11.136	88	384718	4076.23	ug/l	96
48) Bromodichloromethane	11.308	83	2255180	212.53	ug/l	100
49) 2-Nitropropane	11.588	41	1936867	1009.29	ug/l	100
50) 2-Chloroethyl vinyl ether	11.534	63	4569330	871.87	ug/l	98
51) 4-Methyl-2-pentanone	11.836	43	5362860	909.16	ug/l	98
52) cis-1,3-Dichloropropene	11.761	75	2855128	190.93	ug/l	98
55) Toluene	12.073	91	6999026	187.13	ug/l	99
56) trans-1,3-Dichloropropene	12.310	75	2428810	193.76	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	1344780	191.84	ug/l	99
58) Tetrachloroethene	12.634	166	1788648	205.87	ug/l	99
59) 2-hexanone	12.666	43	3992220	936.18	ug/l	97
60) 1,3-Dichloropropane	12.720	76	2670850	188.28	ug/l	99
61) Dibromochloromethane	12.957	129	1923440	201.07	ug/l	99
62) 1,2-Dibromoethane	13.129	107	1744159	195.31	ug/l	99
63) 1-Chlorohexane	13.409	91	1469087	197.86	ug/l	96
64) Chlorobenzene	13.582	112	4860718	189.22	ug/l	99
65) 1,1,1,2-Tetrachloroethane	13.636	131	1844197	213.97	ug/l	99
66) Ethylbenzene	13.603	91	7021806	187.14	ug/l	97
67) m,p-Xylene	13.711	91	10636138	370.07	ug/l	99
68) o-Xylene	14.142	91	5825826	189.00	ug/l	100
69) Styrene	14.164	104	5107231	186.24	ug/l	98
70) Bromoform	14.466	173	1407161	208.07	ug/kg	99
72) Isopropylbenzene	14.487	105	5335996	191.23	ug/l	98
73) Cyclohexanone	14.735	55	365958	2080.96	ug/l	93
75) Bromobenzene	14.951	156	2373259	188.50	ug/l	98
76) 1,1,2,2-Tetrachloroethane	14.854	83	2087086	199.72	ug/l	99
77) Trans-1,4-Dichloro-2-b...	14.907	53	557698	193.45	ug/l	95
78) 1,2,3-Trichloropropane	14.951	110	615457	192.54	ug/l	100
79) n-Propylbenzene	14.907	91	6539084	184.63	ug/l	98
80) 2-Chlorotoluene	15.091	91	5204842	187.12	ug/l	99
81) 4-Chlorotoluene	15.198	91	4982801	188.88	ug/l	100
82) 1,3,5-Trimethylbenzene	15.069	105	5020060	190.75	ug/l	100
83) sec-Butylbenzene	15.640	105	5444717	189.30	ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	3656371	190.22	ug/l	99
85) 4-Isopropyltoluene	15.770	119	4698755	190.82	ug/l	100
86) 1,4-Dichlorobenzene	15.985	146	3898325	190.23	ug/l	100
87) tert-Butylbenzene	15.425	91	2510486	191.20	ug/l	98
88) n-Butylbenzene	16.211	91	3954060	186.68	ug/l	99
89) 1,2-Dichlorobenzene	16.416	146	3707493	192.57	ug/l	99
90) 1,2,4-Trimethylbenzene	15.479	105	5339844	188.92	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003821.D
Acq On : 8 Oct 2009 12:23 pm
Operator : AnjanaP
Sample : ic168-200
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 12:48:52 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:43 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	311378	238.84 ug/l	95
92) 1,2,4-Trichlorobenzene	18.378	180	1836777	201.55 ug/l	98
93) Hexachlorobutadiene	18.475	225	860540	183.97 ug/l	98
94) Naphthalene	18.798	128	3928526	207.80 ug/l	99
95) 1,2,3-Trichlorobenzene	19.154	180	1358660	197.30 ug/l	99
97) TPH-GRO (C6-C10)	11.619	TIC	629705026m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003821.D
Acq On    :  8 Oct 2009  12:23 pm
Operator  : AnjanaP
Sample    : ic168-200
Misc      : ms7089,VC0168,5,,,5,,WATER
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Oct 08 12:48:52 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:48:43 2009
Response via : Initial Calibration
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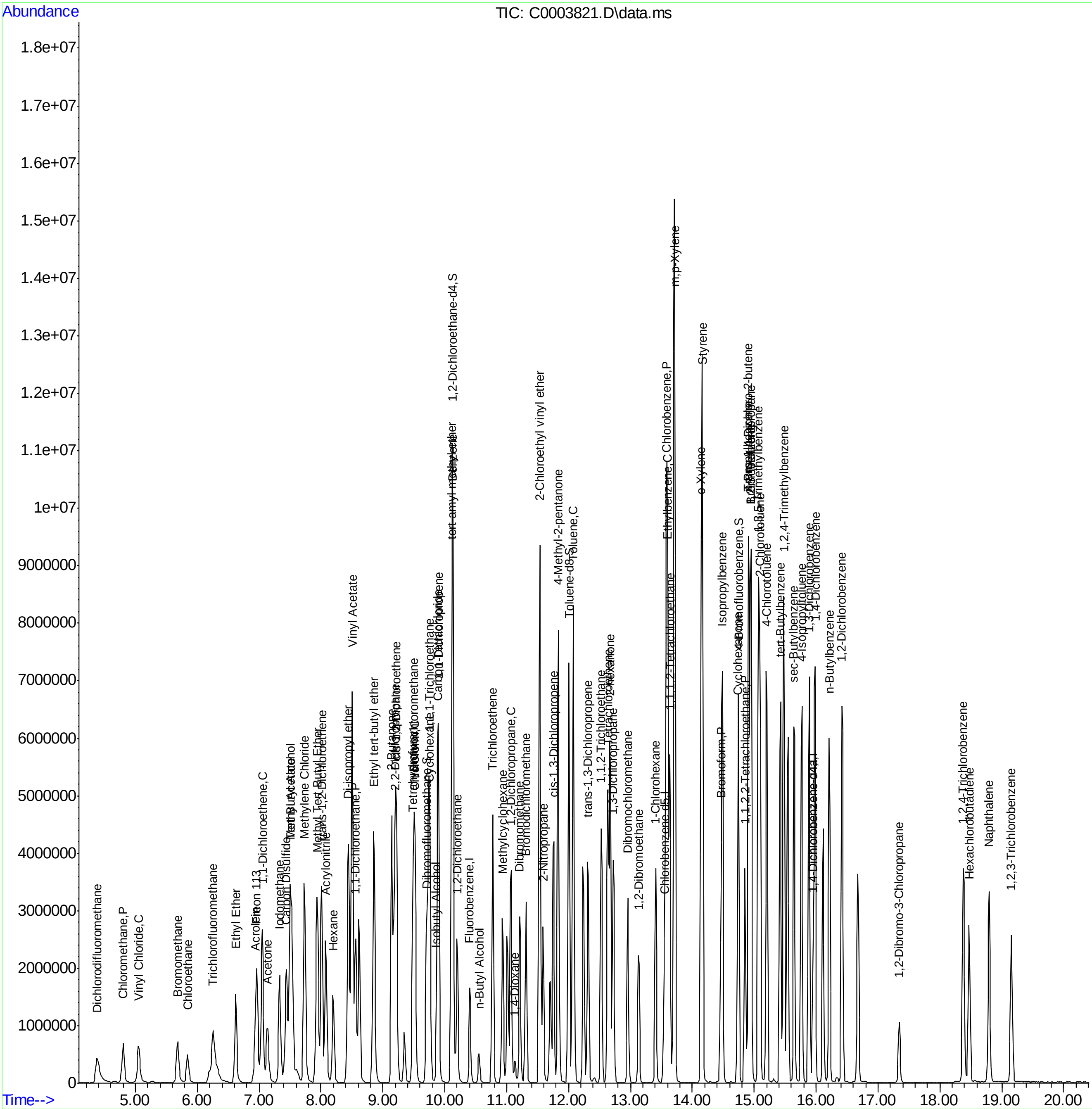


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003823.D
Acq On : 8 Oct 2009 1:20 pm
Operator : AnjanaP
Sample : icv168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 13:39:19 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1663560	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1367414	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	683798	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	683798	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	388820	45.91	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 91.82%			
39) 1,2-Dichloroethane-d4	10.123	65	422466	46.09	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 92.18%			
54) Toluene-d8	12.009	98	1463190	51.85	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 103.70%			
74) 4-Bromofluorobenzene	14.746	95	518842	48.03	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 96.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.378	85	221279	33.56	ug/l	100
3) Chloromethane	4.788	50	255839	41.67	ug/l	99
4) Vinyl Chloride	5.047	62	262329	42.92	ug/l	98
5) Bromomethane	5.682	94	204125	45.83	ug/l	97
6) Chloroethane	5.844	64	151219	42.98	ug/l	95
7) Trichlorofluoromethane	6.264	101	381821	37.09	ug/l	94
8) Ethyl Ether	6.620	59	240297	40.81	ug/l	98
9) Acrolein	6.943	56	9679	124.76	ug/l	94
10) 1,1-Dichloroethene	7.051	61	370824	35.11	ug/l	99
11) Freon 113	6.954	101	228485	33.44	ug/l	98
12) Acetone	7.127	43	345230	200.03	ug/l	99
13) Iodomethane	7.331	142	509721	37.75	ug/l	99
14) Methyl Acetate	7.493	43	885142	194.88	ug/l	100
15) Carbon Disulfide	7.439	76	789903	34.15	ug/l	99
16) Methylene Chloride	7.730	49	360760	35.51	ug/l	99
17) Tert Butyl Alcohol	7.504	59	80406	392.93	ug/l	98
18) trans-1,2-Dichloroethene	8.010	61	388528	36.88	ug/l	100
19) Acrylonitrile	8.075	53	460472	208.90	ug/l	98
20) Methyl Tert Butyl Ether	7.935	73	806968	35.82	ug/l	99
21) Hexane	8.204	57	136673	30.71	ug/l	98
22) 1,1-Dichloroethane	8.560	63	494283	35.41	ug/l	99
23) Vinyl Acetate	8.495	43	2505411	193.41	ug/l	99
24) Di-isopropyl ether	8.441	45	779724	36.21	ug/l	99
25) Ethyl tert-butyl ether	8.851	59	801453	34.81	ug/l	99
26) 2,2-Dichloropropane	9.196	77	326497	34.14	ug/l	99
27) cis-1,2-Dichloroethene	9.217	96	332759	38.34	ug/l	98
28) 2-Butanone	9.142	43	1613143	216.01	ug/l	100
29) Bromochloromethane	9.497	128	185356	36.00	ug/l #	90
30) Chloroform	9.519	83	519148	33.54	ug/l	99
31) Tetrahydrofuran	9.487	42	115346	65.55	ug/l #	1
32) 1,1,1-Trichloroethane	9.745	97	395605	36.01	ug/l	97
34) Cyclohexane	9.756	56	257319	33.26	ug/l	99
35) n-Butyl Alcohol	10.554	43	63276	827.65	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003823.D
Acq On : 8 Oct 2009 1:20 pm
Operator : AnjanaP
Sample : icv168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 13:39:19 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	351835	34.66	ug/l	99
37) Isobutyl Alcohol	9.864	43	189823	877.67	ug/L	98
38) Carbon Tetrachloride	9.885	117	330387	34.44	ug/l	99
40) Benzene	10.133	78	1209804	36.71	ug/l	95
41) 1,2-Dichloroethane	10.198	62	391875	36.21	ug/l	99
42) tert-amyl methyl ether	10.112	73	807200	35.63	ug/l	99
43) Trichloroethene	10.769	95	290438	36.45	ug/l	96
44) Methylcyclohexane	10.931	83	219121	31.66	ug/l	95
45) 1,2-Dichloropropane	11.071	63	290894	37.29	ug/l	99
46) Dibromomethane	11.211	93	199445	36.85	ug/l	98
47) 1,4-Dioxane	11.136	88	66569	739.11	ug/l	98
48) Bromodichloromethane	11.308	83	376688	35.47	ug/l	99
49) 2-Nitropropane	11.588	41	284842	162.05	ug/l	99
50) 2-Chloroethyl vinyl ether	11.534	63	930500	193.58	ug/l	99
51) 4-Methyl-2-pentanone	11.836	43	1165334	211.32	ug/l	100
52) cis-1,3-Dichloropropene	11.761	75	488012	34.75	ug/l	100
55) Toluene	12.073	91	1300775	39.43	ug/l	99
56) trans-1,3-Dichloropropene	12.310	75	441142	36.86	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	246301	35.28	ug/l	100
58) Tetrachloroethene	12.634	166	308172	35.25	ug/l	99
59) 2-hexanone	12.666	43	816777	202.55	ug/l	99
60) 1,3-Dichloropropane	12.720	76	502207	38.21	ug/l	99
61) Dibromochloromethane	12.957	129	317641	34.37	ug/l	99
62) 1,2-Dibromoethane	13.129	107	306651	39.13	ug/l	99
63) 1-Chlorohexane	13.410	91	224086	32.60	ug/l	99
64) Chlorobenzene	13.582	112	926745	36.29	ug/l	98
65) 1,1,1,2-Tetrachloroethane	13.636	131	320741	36.78	ug/l	97
66) Ethylbenzene	13.603	91	1284460	37.39	ug/l	98
67) m,p-Xylene	13.711	91	1991867	72.24	ug/l	99
68) o-Xylene	14.142	91	1041064	35.86	ug/l	99
69) Styrene	14.164	104	854917	33.26	ug/l	100
70) Bromoform	14.466	173	218094	33.55	ug/kg	99
72) Isopropylbenzene	14.487	105	928790	35.78	ug/l	100
73) Cyclohexanone	14.735	55	115840	661.55	ug/l	88
75) Bromobenzene	14.951	156	430255	37.17	ug/l	100
76) 1,1,2,2-Tetrachloroethane	14.854	83	402089	38.83	ug/l	99
77) Trans-1,4-Dichloro-2-b...	14.907	53	98331	35.86	ug/l	94
78) 1,2,3-Trichloropropane	14.951	110	111324	35.33	ug/l	98
79) n-Propylbenzene	14.907	91	1152524	34.93	ug/l	99
80) 2-Chlorotoluene	15.091	91	944473	35.59	ug/l	99
81) 4-Chlorotoluene	15.198	91	880583	35.36	ug/l	98
82) 1,3,5-Trimethylbenzene	15.069	105	836355	33.97	ug/l	98
83) sec-Butylbenzene	15.651	105	874493	32.70	ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	641717	36.63	ug/l	99
85) 4-Isopropyltoluene	15.770	119	747305	32.69	ug/l	99
86) 1,4-Dichlorobenzene	15.985	146	696546	34.54	ug/l	99
87) tert-Butylbenzene	15.425	91	408712	33.40	ug/l	100
88) n-Butylbenzene	16.211	91	629772	31.99	ug/l	100
89) 1,2-Dichlorobenzene	16.416	146	655321	37.15	ug/l	99
90) 1,2,4-Trimethylbenzene	15.479	105	931206	35.10	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003823.D
Acq On : 8 Oct 2009 1:20 pm
Operator : AnjanaP
Sample : icv168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 13:39:19 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	53750	40.48 ug/l	96
92) 1,2,4-Trichlorobenzene	18.378	180	290738	37.62 ug/l	99
93) Hexachlorobutadiene	18.475	225	150896	34.52 ug/l	99
94) Naphthalene	18.798	128	631176	35.54 ug/l	99
95) 1,2,3-Trichlorobenzene	19.154	180	231641	40.21 ug/l	98
97) TPH-GRO (C6-C10)	11.619	TIC	117290115m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

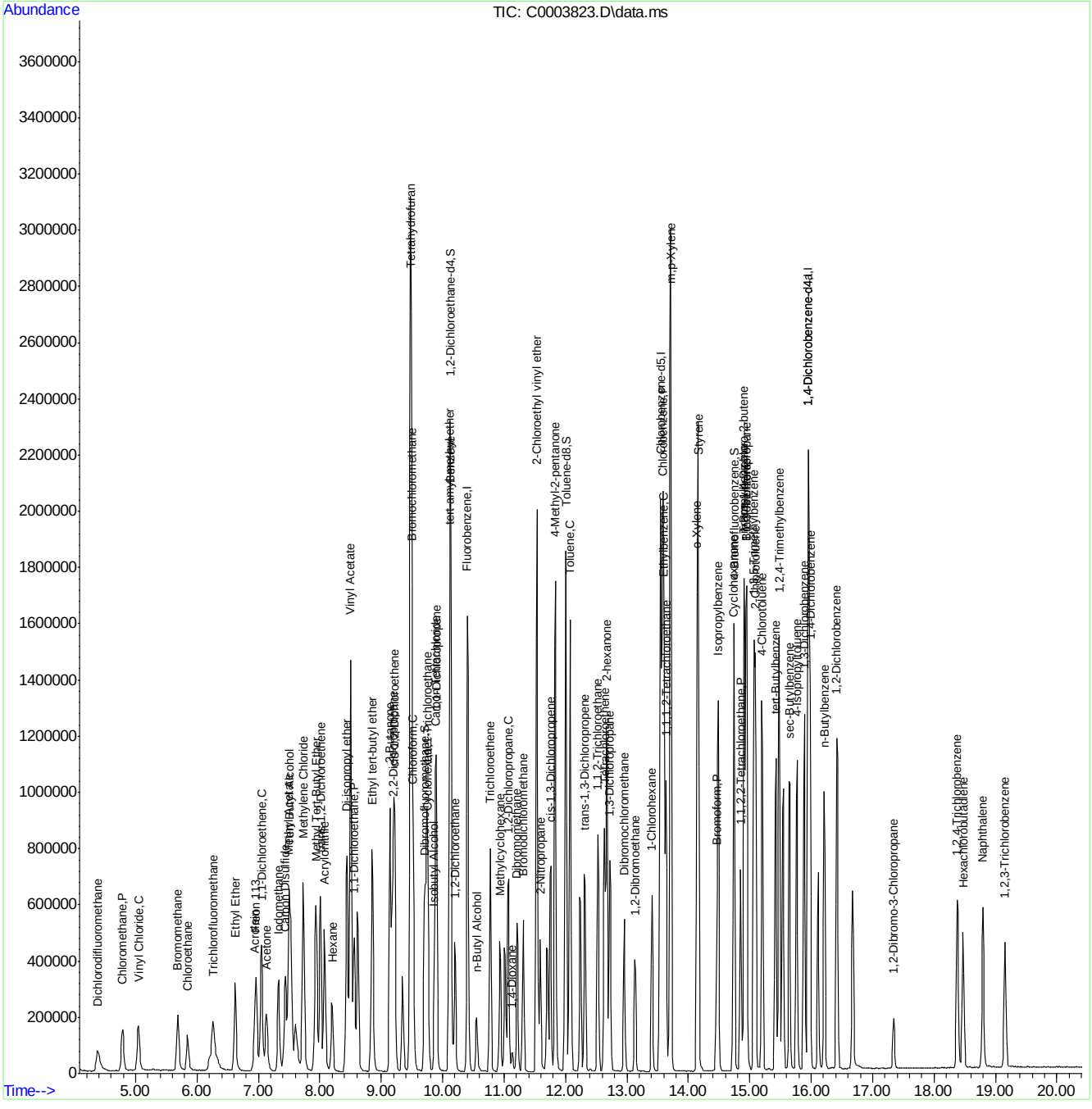
6.6.8

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VC0168\
Data File : C0003823.D
Acq On : 8 Oct 2009 1:20 pm
Operator : AnjanaP
Sample : icv168-40
Misc : ms7089,VC0168,5,,,5,,WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 13:39:19 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1255911	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1120973	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	567369	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	567369	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	290265	45.40	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 90.80%			
39) 1,2-Dichloroethane-d4	10.123	65	327550	47.34	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 94.68%			
54) Toluene-d8	12.008	98	957702	41.40	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 82.80%#			
74) 4-Bromofluorobenzene	14.746	95	370793	41.37	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 82.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.389	85	179378	36.04	ug/l	100
3) Chloromethane	4.788	50	194884	42.04	ug/l	100
4) Vinyl Chloride	5.047	62	202022	43.78	ug/l	99
5) Bromomethane	5.693	94	191789	58.33	ug/l	99
6) Chloroethane	5.844	64	142496	54.28	ug/l	99
7) Trichlorofluoromethane	6.264	101	369231	47.50	ug/l	98
8) Ethyl Ether	6.620	59	173971	39.13	ug/l	99
9) Acrolein	6.943	56	8633	144.67	ug/l	97
10) 1,1-Dichloroethene	7.051	61	316162	39.65	ug/l	97
11) Freon 113	6.965	101	232211	45.01	ug/l	93
12) Acetone	7.127	43	280293	215.29	ug/l	99
13) Iodomethane	7.331	142	402587	39.49	ug/l	98
14) Methyl Acetate	7.504	43	748364	218.25	ug/l	99
15) Carbon Disulfide	7.439	76	750552	42.98	ug/l	99
16) Methylene Chloride	7.730	49	329939	43.68	ug/l	96
17) Tert Butyl Alcohol	7.504	59	68501	443.41	ug/l #	95
18) trans-1,2-Dichloroethene	8.010	61	358784	45.11	ug/l	99
19) Acrylonitrile	8.075	53	383813	230.64	ug/l	100
20) Methyl Tert Butyl Ether	7.935	73	611133	35.93	ug/l	97
21) Hexane	8.204	57	119836	35.60	ug/l	93
22) 1,1-Dichloroethane	8.560	63	467336	44.35	ug/l	98
23) Vinyl Acetate	8.506	43	2224042	229.05	ug/l	99
24) Di-isopropyl ether	8.441	45	605748	37.25	ug/l	97
25) Ethyl tert-butyl ether	8.851	59	642836	36.92	ug/l	99
26) 2,2-Dichloropropane	9.207	77	355804	49.28	ug/l	98
27) cis-1,2-Dichloroethene	9.217	96	295131	45.04	ug/l	96
28) 2-Butanone	9.142	43	1332672	236.38	ug/l	100
29) Bromochloromethane	9.497	128	180855	46.53	ug/l	94
30) Chloroform	9.519	83	514601	44.04	ug/l	97
31) Tetrahydrofuran	9.497	42	54892	41.20	ug/l	86
32) 1,1,1-Trichloroethane	9.745	97	390178	47.04	ug/l	98
34) Cyclohexane	9.756	56	220162	37.61	ug/l	97
35) n-Butyl Alcohol	10.554	43	18382	342.61	ug/L	91

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	1,1-Dichloropropene	9.896	75	328831	42.96	ug/l	98
37)	Isobutyl Alcohol	9.864	43	60005	378.38	ug/L #	87
38)	Carbon Tetrachloride	9.896	117	357038	49.31	ug/l	99
40)	Benzene	10.133	78	1151492	46.28	ug/l	97
41)	1,2-Dichloroethane	10.198	62	381187	46.65	ug/l	98
42)	tert-amyl methyl ether	10.112	73	653343	38.15	ug/l	93
43)	Trichloroethene	10.780	95	251354	41.79	ug/l	98
44)	Methylcyclohexane	10.942	83	185250	35.27	ug/l	97
45)	1,2-Dichloropropane	11.071	63	263199	44.69	ug/l	97
46)	Dibromomethane	11.211	93	186292	45.59	ug/l	97
47)	1,4-Dioxane	11.136	88	47040	694.82	ug/l	96
48)	Bromodichloromethane	11.308	83	368429	45.95	ug/l	99
49)	2-Nitropropane	11.588	41	312650	228.38	ug/l	97
50)	2-Chloroethyl vinyl ether	11.534	63	748563	206.77	ug/l	99
51)	4-Methyl-2-pentanone	11.836	43	939070	225.87	ug/l	98
52)	cis-1,3-Dichloropropene	11.761	75	420451	39.55	ug/l	98
55)	Toluene	12.073	91	1142400	38.82	ug/l	98
56)	trans-1,3-Dichloropropene	12.310	75	376033	38.29	ug/l	99
57)	1,1,2-Trichloroethane	12.526	83	221121	38.63	ug/l	98
58)	Tetrachloroethene	12.634	166	276679	38.61	ug/l	99
59)	2-hexanone	12.666	43	660194	199.73	ug/l	99
60)	1,3-Dichloropropane	12.720	76	455373	42.26	ug/l	98
61)	Dibromochloromethane	12.957	129	300577	39.43	ug/l	99
62)	1,2-Dibromoethane	13.129	107	254758	39.65	ug/l	100
63)	1-Chlorohexane	13.409	91	170781	30.49	ug/l	89
64)	Chlorobenzene	13.582	112	835581	39.91	ug/l	98
65)	1,1,1,2-Tetrachloroethane	13.636	131	310080	43.37	ug/l	96
66)	Ethylbenzene	13.593	91	1161009	41.23	ug/l	99
67)	m,p-Xylene	13.711	91	1796214	79.63	ug/l	99
68)	o-Xylene	14.153	91	874263	36.72	ug/l	97
69)	Styrene	14.164	104	833319	39.48	ug/l	99
70)	Bromoform	14.466	173	212285	39.31	ug/kg	98
72)	Isopropylbenzene	14.487	105	719981	33.51	ug/l	99
73)	Cyclohexanone	14.735	55	36080	264.80	ug/l	85
75)	Bromobenzene	14.951	156	391072	40.72	ug/l	99
76)	1,1,2,2-Tetrachloroethane	14.854	83	350722	40.82	ug/l	99
77)	Trans-1,4-Dichloro-2-b...	14.907	53	93415	40.97	ug/l	97
78)	1,2,3-Trichloropropane	14.951	110	110159	42.14	ug/l	98
79)	n-Propylbenzene	14.907	91	1027282	37.53	ug/l	100
80)	2-Chlorotoluene	15.091	91	856947	38.98	ug/l	99
81)	4-Chlorotoluene	15.198	91	754774	36.52	ug/l	99
82)	1,3,5-Trimethylbenzene	15.069	105	728512	35.62	ug/l	99
83)	sec-Butylbenzene	15.651	105	767001	34.53	ug/l	97
84)	1,3-Dichlorobenzene	15.888	146	576731	39.68	ug/l	98
85)	4-Isopropyltoluene	15.770	119	648514	34.14	ug/l	100
86)	1,4-Dichlorobenzene	15.985	146	637410	38.09	ug/l	98
87)	tert-Butylbenzene	15.425	91	349353	34.37	ug/l	99
88)	n-Butylbenzene	16.211	91	587643	35.93	ug/l	98
89)	1,2-Dichlorobenzene	16.427	146	567221	38.76	ug/l	98
90)	1,2,4-Trimethylbenzene	15.479	105	826499	37.52	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

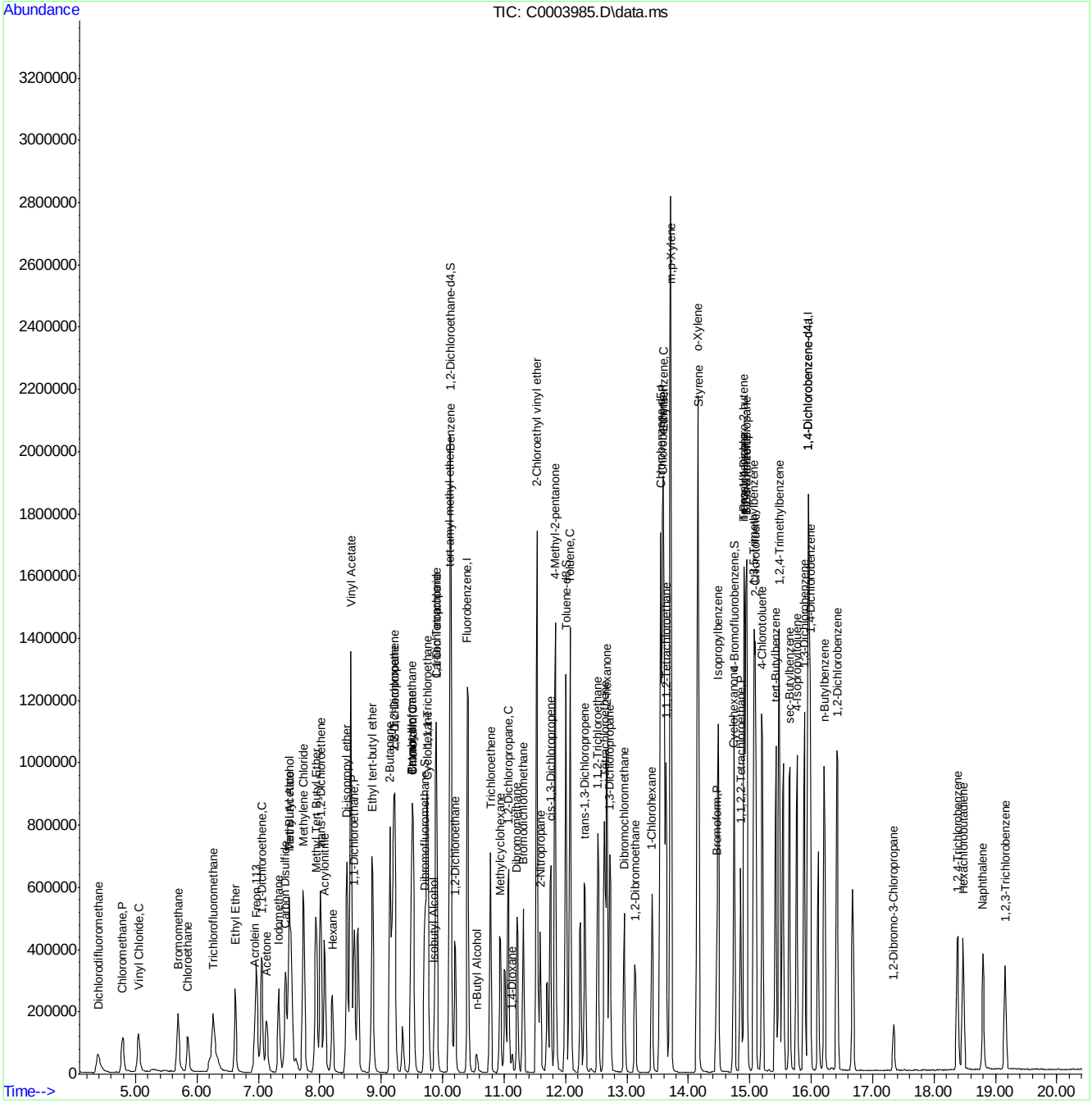
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	45030	40.87 ug/l	99
92) 1,2,4-Trichlorobenzene	18.388	180	215381	33.59 ug/l	98
93) Hexachlorobutadiene	18.475	225	132766	36.63 ug/l	97
94) Naphthalene	18.798	128	400204	27.97 ug/l	100
95) 1,2,3-Trichlorobenzene	19.164	180	174624	36.53 ug/l	97
97) TPH-GRO (C6-C10)	11.619	TIC	98620665m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	10.403	96	1255911	50.00	ug/kg	0.00
53) Chlorobenzene-d5	13.550	117	1120973	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	15.953	152	567369	50.00	ug/kg	0.00
96) 1,4-Dichlorobenzene-d4a	15.953	152	567369	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.702	113	290265	45.40	ug/l	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 90.80%			
39) 1,2-Dichloroethane-d4	10.123	65	327550	47.34	ug/l	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 94.68%			
54) Toluene-d8	12.008	98	957702	41.40	ug/l	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 82.80%#			
74) 4-Bromofluorobenzene	14.746	95	370793	41.37	ug/l	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 82.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.389	85	179378	36.04	ug/l	100
3) Chloromethane	4.788	50	194884	42.04	ug/l	100
4) Vinyl Chloride	5.047	62	202022	43.78	ug/l	99
5) Bromomethane	5.693	94	191789	58.33	ug/l	99
6) Chloroethane	5.844	64	142496	54.28	ug/l	99
7) Trichlorofluoromethane	6.264	101	369231	47.50	ug/l	98
8) Ethyl Ether	6.620	59	173971	39.13	ug/l	99
9) Acrolein	6.943	56	8633	144.67	ug/l	97
10) 1,1-Dichloroethene	7.051	61	316162	39.65	ug/l	97
11) Freon 113	6.965	101	232211	45.01	ug/l	93
12) Acetone	7.127	43	280293	215.29	ug/l	99
13) Iodomethane	7.331	142	402587	39.49	ug/l	98
14) Methyl Acetate	7.504	43	748364	218.25	ug/l	99
15) Carbon Disulfide	7.439	76	750552	42.98	ug/l	99
16) Methylene Chloride	7.730	49	329939	43.68	ug/l	96
17) Tert Butyl Alcohol	7.504	59	68501	443.41	ug/l #	95
18) trans-1,2-Dichloroethene	8.010	61	358784	45.11	ug/l	99
19) Acrylonitrile	8.075	53	383813	230.64	ug/l	100
20) Methyl Tert Butyl Ether	7.935	73	611133	35.93	ug/l	97
21) Hexane	8.204	57	119836	35.60	ug/l	93
22) 1,1-Dichloroethane	8.560	63	467336	44.35	ug/l	98
23) Vinyl Acetate	8.506	43	2224042	229.05	ug/l	99
24) Di-isopropyl ether	8.441	45	605748	37.25	ug/l	97
25) Ethyl tert-butyl ether	8.851	59	642836	36.92	ug/l	99
26) 2,2-Dichloropropane	9.207	77	355804	49.28	ug/l	98
27) cis-1,2-Dichloroethene	9.217	96	295131	45.04	ug/l	96
28) 2-Butanone	9.142	43	1332672	236.38	ug/l	100
29) Bromochloromethane	9.497	128	180855	46.53	ug/l	94
30) Chloroform	9.519	83	514601	44.04	ug/l	97
31) Tetrahydrofuran	9.497	42	54892	41.20	ug/l	86
32) 1,1,1-Trichloroethane	9.745	97	390178	47.04	ug/l	98
34) Cyclohexane	9.756	56	220162	37.61	ug/l	97
35) n-Butyl Alcohol	10.554	43	18382	342.61	ug/L	91

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	9.896	75	328831	42.96	ug/l	98
37) Isobutyl Alcohol	9.864	43	60005	378.38	ug/L #	87
38) Carbon Tetrachloride	9.896	117	357038	49.31	ug/l	99
40) Benzene	10.133	78	1151492	46.28	ug/l	97
41) 1,2-Dichloroethane	10.198	62	381187	46.65	ug/l	98
42) tert-amyl methyl ether	10.112	73	653343	38.15	ug/l	93
43) Trichloroethene	10.780	95	251354	41.79	ug/l	98
44) Methylcyclohexane	10.942	83	185250	35.27	ug/l	97
45) 1,2-Dichloropropane	11.071	63	263199	44.69	ug/l	97
46) Dibromomethane	11.211	93	186292	45.59	ug/l	97
47) 1,4-Dioxane	11.136	88	47040	694.82	ug/l	96
48) Bromodichloromethane	11.308	83	368429	45.95	ug/l	99
49) 2-Nitropropane	11.588	41	312650	228.38	ug/l	97
50) 2-Chloroethyl vinyl ether	11.534	63	748563	206.77	ug/l	99
51) 4-Methyl-2-pentanone	11.836	43	939070	225.87	ug/l	98
52) cis-1,3-Dichloropropene	11.761	75	420451	39.55	ug/l	98
55) Toluene	12.073	91	1142400	38.82	ug/l	98
56) trans-1,3-Dichloropropene	12.310	75	376033	38.29	ug/l	99
57) 1,1,2-Trichloroethane	12.526	83	221121	38.63	ug/l	98
58) Tetrachloroethene	12.634	166	276679	38.61	ug/l	99
59) 2-hexanone	12.666	43	660194	199.73	ug/l	99
60) 1,3-Dichloropropane	12.720	76	455373	42.26	ug/l	98
61) Dibromochloromethane	12.957	129	300577	39.43	ug/l	99
62) 1,2-Dibromoethane	13.129	107	254758	39.65	ug/l	100
63) 1-Chlorohexane	13.409	91	170781	30.49	ug/l	89
64) Chlorobenzene	13.582	112	835581	39.91	ug/l	98
65) 1,1,1,2-Tetrachloroethane	13.636	131	310080	43.37	ug/l	96
66) Ethylbenzene	13.593	91	1161009	41.23	ug/l	99
67) m,p-Xylene	13.711	91	1796214	79.63	ug/l	99
68) o-Xylene	14.153	91	874263	36.72	ug/l	97
69) Styrene	14.164	104	833319	39.48	ug/l	99
70) Bromoform	14.466	173	212285	39.31	ug/kg	98
72) Isopropylbenzene	14.487	105	719981	33.51	ug/l	99
73) Cyclohexanone	14.735	55	36080	264.80	ug/l	85
75) Bromobenzene	14.951	156	391072	40.72	ug/l	99
76) 1,1,2,2-Tetrachloroethane	14.854	83	350722	40.82	ug/l	99
77) Trans-1,4-Dichloro-2-b...	14.907	53	93415	40.97	ug/l	97
78) 1,2,3-Trichloropropane	14.951	110	110159	42.14	ug/l	98
79) n-Propylbenzene	14.907	91	1027282	37.53	ug/l	100
80) 2-Chlorotoluene	15.091	91	856947	38.98	ug/l	99
81) 4-Chlorotoluene	15.198	91	754774	36.52	ug/l	99
82) 1,3,5-Trimethylbenzene	15.069	105	728512	35.62	ug/l	99
83) sec-Butylbenzene	15.651	105	767001	34.53	ug/l	97
84) 1,3-Dichlorobenzene	15.888	146	576731	39.68	ug/l	98
85) 4-Isopropyltoluene	15.770	119	648514	34.14	ug/l	100
86) 1,4-Dichlorobenzene	15.985	146	637410	38.09	ug/l	98
87) tert-Butylbenzene	15.425	91	349353	34.37	ug/l	99
88) n-Butylbenzene	16.211	91	587643	35.93	ug/l	98
89) 1,2-Dichlorobenzene	16.427	146	567221	38.76	ug/l	98
90) 1,2,4-Trimethylbenzene	15.479	105	826499	37.52	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration

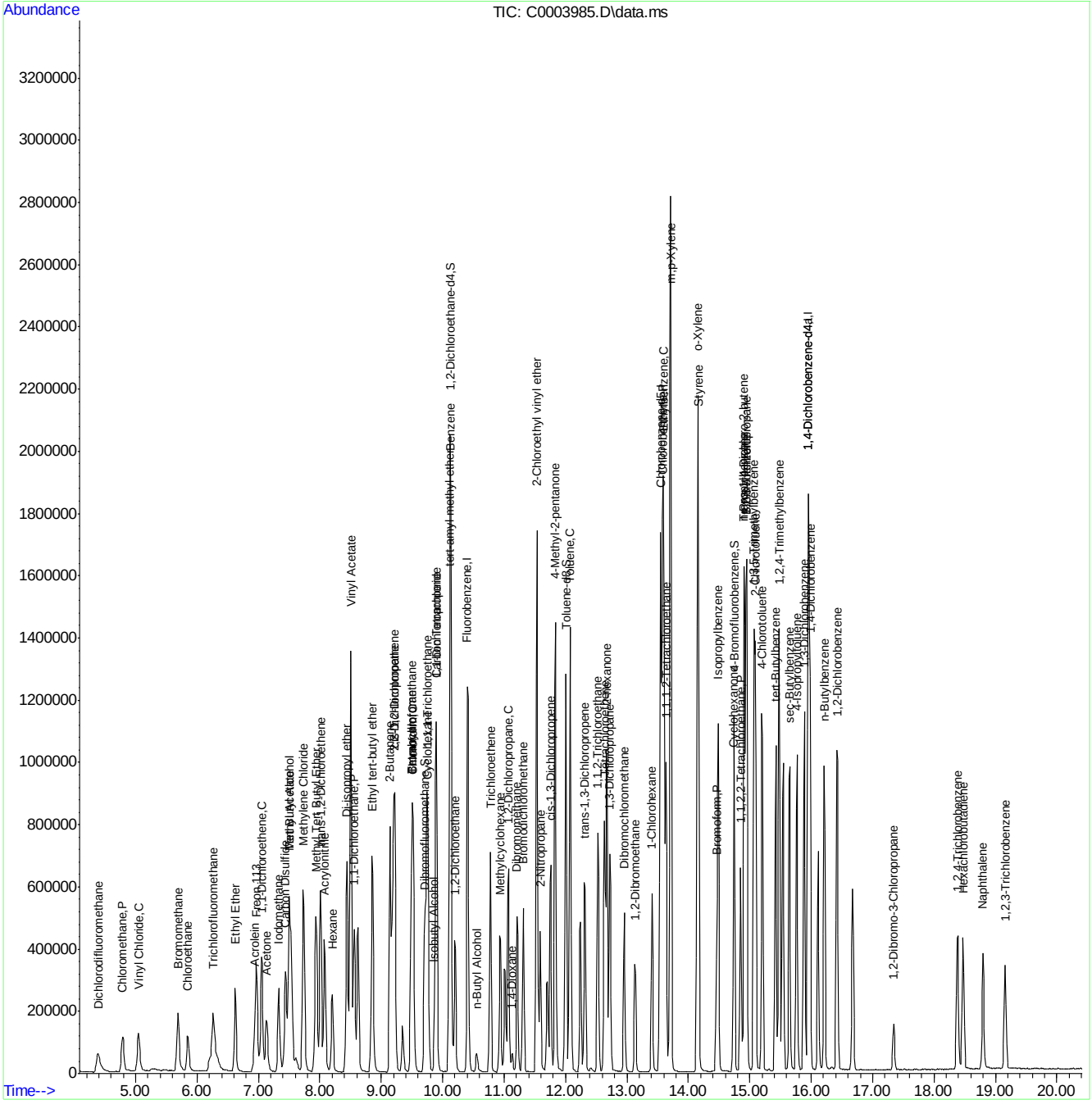
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) 1,2-Dibromo-3-Chloropr...	17.343	75	45030	40.87 ug/l	99
92) 1,2,4-Trichlorobenzene	18.388	180	215381	33.59 ug/l	98
93) Hexachlorobutadiene	18.475	225	132766	36.63 ug/l	97
94) Naphthalene	18.798	128	400204	27.97 ug/l	100
95) 1,2,3-Trichlorobenzene	19.164	180	174624	36.53 ug/l	97
97) TPH-GRO (C6-C10)	11.619	TIC	98620665m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\VC0175\
Data File : C0003985.D
Acq On : 14 Oct 2009 11:19 am
Operator : AnjanaP
Sample : cc168-40
Misc : ms7106,VC0176,5,,,5,,WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 11:36:58 2009
Quant Method : C:\msdchem\1\METHODS\VC168.m
Quant Title : SW846 8260B and EPA624
QLast Update : Thu Oct 08 12:49:21 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	956208	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.63	117	697608	50.00	ug/L	-0.01
71) 1,4-Dichlorobenzene-d4	17.81	152	394454	50.00	ug/L	-0.01
96) 1,4-Dichlorobenzene-d4a	17.81	152	394454	50.00	ug/kg	-0.01

System Monitoring Compounds						
33) Dibromofluoromethane	9.85	113	6329	1.06	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 2.12%#			
38) 1,2-Dichloroethane-d4	10.34	65	9407	1.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 2.24%#			
54) Toluene-d8	12.62	98	20214	1.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 2.54%#			
74) 4-Bromofluorobenzene	16.19	95	10654	1.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.70	85	5573	0.84	ug/L	92
3) Chloromethane	5.04	50	6800	1.03	ug/L	93
4) Vinyl Chloride	5.29	62	4453	0.83	ug/L #	44
5) Bromomethane	5.88	94	4656	1.29	ug/L	87
6) Chloroethane	6.02	64	3011	1.14	ug/L	73
7) Trichlorofluoromethane	6.36	101	9437	1.10	ug/L	81
8) Acrolein	8.21	56	2060	5.29	ug/L	59
9) Ethyl Ether	6.67	59	3720	1.06	ug/L	88
10) 1,1-Dichloroethene	7.10	61	6980	1.03	ug/L	95
11) Freon 113	6.97	101	3967	0.94	ug/L	88
12) Acetone	7.15	43	16378	12.10	ug/L	82
13) Iodomethane	7.41	142	7314	0.89	ug/L #	91
14) Methyl acetate	7.50	43	20795	7.54	ug/L	90
15) Carbon Disulfide	7.54	76	13743	1.04	ug/L	96
16) Methylene Chloride	7.78	49	9543	1.62	ug/L	84
17) Tert Butyl Alcohol	7.69	59	4649	11.24	ug/L	70
18) trans-1,2-Dichloroethene	8.04	61	6217	0.96	ug/L	86
19) Acrylonitrile	8.09	53	5791	5.52	ug/L	91
20) Methyl Tert Butyl Ether	7.92	73	15482	1.05	ug/L	93
21) Hexane	8.22	57	3470	1.10	ug/L	78
22) 1,1-Dichloroethane	8.60	63	7844	0.95	ug/L	97
23) Vinyl acetate	8.43	43	8397	5.80	ug/L	89
24) Di-isopropyl ether	8.43	45	17043	1.09	ug/L	93
25) Ethyl tert-butyl ether	8.87	59	15836	0.98	ug/L	94
26) 2,2-Dichloropropane	9.28	77	7239	1.07	ug/L	92
27) cis-1,2-Dichloroethene	9.31	96	5498	0.97	ug/L	96
28) 2-Butanone	9.20	43	21865	3.87	ug/L	100
29) Bromochloromethane	9.64	128	2400	0.82	ug/L	88
30) Chloroform	9.64	83	10452	0.93	ug/L	92
31) Tetrahydrofuran	9.20	42	3341	1.21	ug/L	75
32) 1,1,1-Trichloroethane	9.90	97	9311	0.97	ug/L	95
34) Cyclohexane	9.92	56	5124	0.99	ug/L	88
35) n-Butyl Alcohol	9.91	43	309	6.86	ug/L #	1
36) 1,1-Dichloropropene	10.07	75	6645	0.97	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	8163	0.99	ug/L		95
39)	Benzene	10.36	78	15506	0.99	ug/L		98
40)	1,2-Dichloroethane	10.42	62	9792	1.01	ug/L		94
41)	tert-amyl methyl ether	10.31	73	15768	1.09	ug/L		86
42)	Trichloroethene	11.10	95	10733	1.94	ug/L		98
43)	Methylcyclohexane	11.29	83	4948	1.03	ug/L		95
44)	1,2-Dichloropropane	11.46	63	3850	1.00	ug/L		87
45)	Dibromomethane	11.65	93	3620	0.92	ug/L		93
47)	Bromodichloromethane	11.75	83	9855	1.04	ug/L		97
48)	2-Nitropropane	12.08	41	10680	5.40	ug/L		91
49)	2-Chloroethyl vinyl ether	12.01	63	9868	4.70	ug/L		84
50)	1-Bromo-2-Chloroethane	12.25	63	5967	1.06	uL/L		94
51)	4-Methyl-2-pentanone	12.38	43	21101	5.74	ug/L		96
52)	cis-1,3-Dichloropropene	12.30	75	8656	0.99	ug/L		96
55)	Toluene	12.71	91	19583	1.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	8212	0.98	ug/L		89
57)	1,1,2-Trichloroethane	13.29	83	3637	1.06	ug/L		93
58)	Tetrachloroethene	13.43	166	6155	1.09	ug/L		90
59)	2-hexanone	13.44	43	14675	5.48	ug/L		97
60)	1,3-Dichloropropane	13.54	76	8286	1.07	ug/L		88
61)	Dibromochloromethane	13.87	129	5946	0.94	ug/L		93
62)	1,2-Dibromoethane	14.09	107	4835	0.98	ug/L		83
63)	1-Chlorohexane	14.43	91	6754	1.04	ug/L		91
64)	Chlorobenzene	14.68	112	13385	1.08	ug/L		97
65)	1,1,1,2-Tetrachloroethane	14.75	131	5410	0.97	ug/L	#	70
66)	Ethylbenzene	14.68	91	25295	1.08	ug/L		92
67)	m,p-Xylene	14.83	91	37073	2.03	ug/L		98
68)	o-Xylene	15.41	91	19304	1.01	ug/L		99
69)	Styrene	15.44	104	12803	0.93	ug/L		96
70)	Bromoform	15.84	173	4214	0.92	ug/L		92
72)	Isopropylbenzene	15.85	105	17798	1.04	ug/L		94
73)	Cyclohexanone	16.16	55	544	3.78	ug/L	#	27
75)	Bromobenzene	16.46	156	6422	1.04	ug/L		91
76)	1,1,2,2-Tetrachloroethane	16.33	83	5303	1.13	ug/L		83
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	1873	0.98	ug/L	#	87
78)	1,2,3-Trichloropropane	16.46	110	2029	1.12	ug/L		75
79)	n-Propylbenzene	16.39	91	25454	1.08	ug/L		100
80)	2-Chlorotoluene	16.64	91	20035	1.15	ug/L		96
81)	4-Chlorotoluene	16.79	91	18670	1.14	ug/L		92
82)	1,3,5-Trimethylbenzene	16.59	105	16231	1.03	ug/L		96
83)	sec-Butylbenzene	17.38	105	19271	1.12	ug/L		99
84)	1,3-Dichlorobenzene	17.73	146	9900	1.00	ug/L		90
85)	4-Isopropyltoluene	17.54	119	15037	1.08	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	9900	0.95	ug/L		89
87)	tert-Butylbenzene	17.55	91	5185	1.66	ug/L	#	68
88)	n-Butylbenzene	18.15	91	16098	1.13	ug/L		94
89)	1,2-Dichlorobenzene	18.43	146	9891	1.02	ug/L		92
90)	1,2,4-Trimethylbenzene	17.15	105	17749	1.05	ug/L		89
91)	1,2-Dibromo-3-Chloropropan	19.59	75	1180	1.16	ug/L	#	52

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

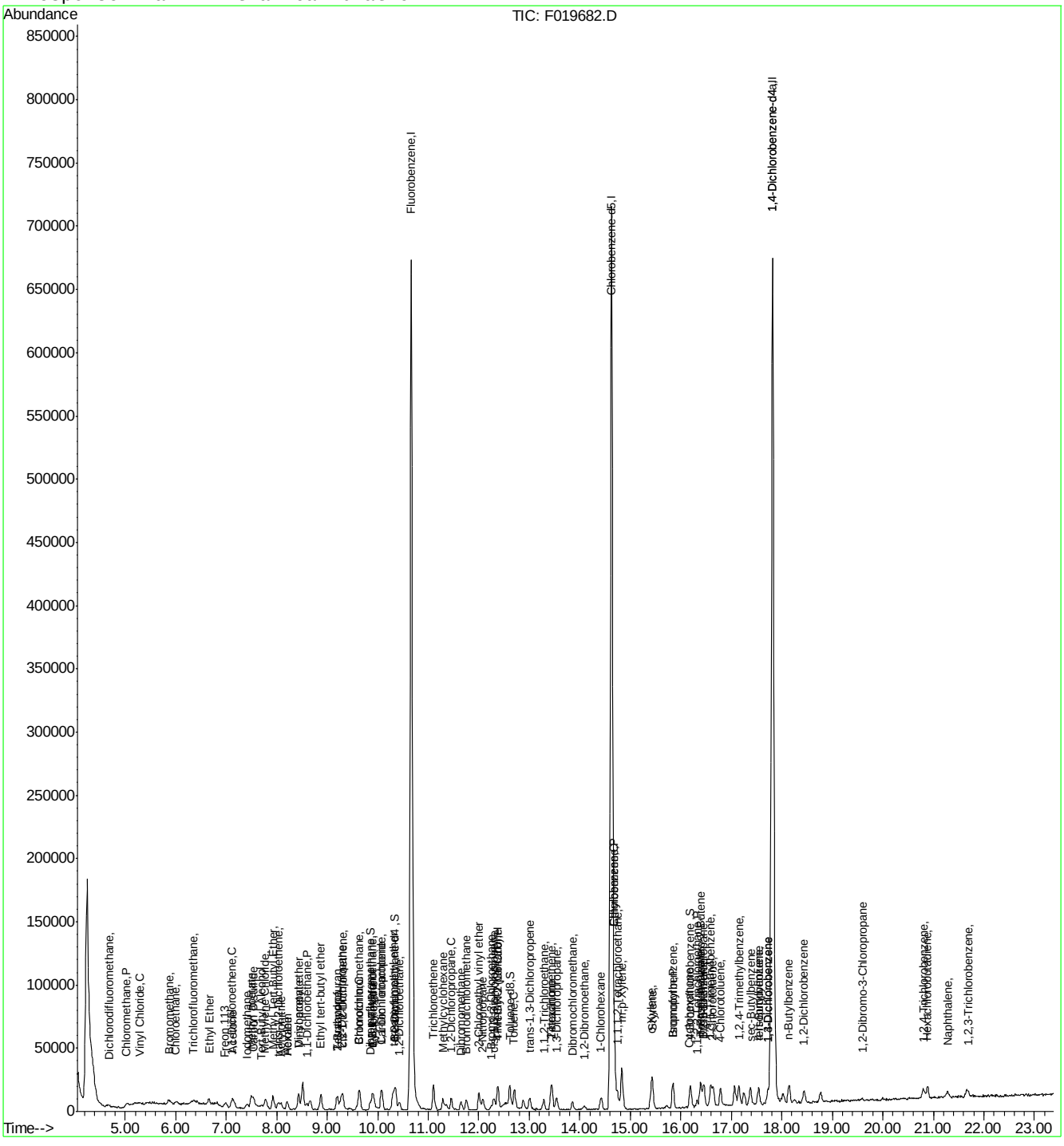
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92) 1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93) Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94) Naphthalene	21.28	128	10874	1.28	ug/L	98
95) 1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97) TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	947288	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	695473	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	390028	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	390028	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.86	113	10997	1.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 3.60%#			
38) 1,2-Dichloroethane-d4	10.34	65	16182	1.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 3.68%#			
54) Toluene-d8	12.62	98	32778	1.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.64%#			
74) 4-Bromofluorobenzene	16.19	95	15304	1.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.44%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	10398	1.72	ug/L	96
3) Chloromethane	5.04	50	8884	1.34	ug/L	88
4) Vinyl Chloride	5.28	62	7538	1.59	ug/L	98
5) Bromomethane	5.87	94	8374	2.05	ug/L	86
6) Chloroethane	6.03	64	4985	1.77	ug/L	97
7) Trichlorofluoromethane	6.36	101	17233	1.93	ug/L	97
8) Acrolein	8.21	56	4442	11.19	ug/L	59
9) Ethyl Ether	6.66	59	7617	2.13	ug/L	93
10) 1,1-Dichloroethene	7.11	61	14802	2.17	ug/L	98
11) Freon 113	7.00	101	9430	2.31	ug/L	89
12) Acetone	7.16	43	22736	10.04	ug/L	98
13) Iodomethane	7.42	142	15389	2.00	ug/L	97
14) Methyl acetate	7.51	43	32239	9.41	ug/L	95
15) Carbon Disulfide	7.55	76	26918	2.02	ug/L	99
16) Methylene Chloride	7.79	49	14838	1.94	ug/L	91
17) Tert Butyl Alcohol	7.71	59	8508	19.55	ug/L	86
18) trans-1,2-Dichloroethene	8.03	61	12921	2.05	ug/L	91
19) Acrylonitrile	8.09	53	11329	10.36	ug/L	94
20) Methyl Tert Butyl Ether	7.93	73	30605	2.04	ug/L	97
21) Hexane	8.21	57	7369	2.25	ug/L	94
22) 1,1-Dichloroethane	8.61	63	16703	2.09	ug/L	92
23) Vinyl acetate	8.44	43	14233	9.19	ug/L	88
24) Di-isopropyl ether	8.44	45	30683	1.89	ug/L	98
25) Ethyl tert-butyl ether	8.88	59	30080	1.89	ug/L	92
26) 2,2-Dichloropropane	9.29	77	14488	2.09	ug/L	99
27) cis-1,2-Dichloroethene	9.31	96	11621	2.11	ug/L	94
28) 2-Butanone	9.20	43	58802	11.84	ug/L	100
29) Bromochloromethane	9.65	128	5581	2.11	ug/L	98
30) Chloroform	9.65	83	22923	2.13	ug/L	98
31) Tetrahydrofuran	9.21	42	4525	1.45	ug/L	78
32) 1,1,1-Trichloroethane	9.90	97	19652	2.10	ug/L	94
34) Cyclohexane	9.93	56	11839	2.32	ug/L	83
35) n-Butyl Alcohol	9.92	43	1980	47.24	ug/L #	28
36) 1,1-Dichloropropene	10.08	75	14123	2.11	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	16977	2.09	ug/L		98
39)	Benzene	10.36	78	32415	2.10	ug/L		87
40)	1,2-Dichloroethane	10.43	62	18959	1.96	ug/L		95
41)	tert-amyl methyl ether	10.31	73	29652	1.98	ug/L		96
42)	Trichloroethene	11.11	95	15738	1.95	ug/L		97
43)	Methylcyclohexane	11.30	83	10094	2.09	ug/L		96
44)	1,2-Dichloropropane	11.46	63	7906	2.07	ug/L		93
45)	Dibromomethane	11.65	93	7546	2.01	ug/L		82
46)	1,4-Dioxane	11.56	88	1216	29.28	ug/L	#	63
47)	Bromodichloromethane	11.76	83	18337	1.91	ug/L		96
48)	2-Nitropropane	12.09	41	21935	10.76	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	18258	9.05	ug/L		88
50)	1-Bromo-2-Chloroethane	12.25	63	11589	2.02	uL/L		100
51)	4-Methyl-2-pentanone	12.38	43	39511	10.10	ug/L		97
52)	cis-1,3-Dichloropropene	12.30	75	16922	1.96	ug/L		89
55)	Toluene	12.71	91	39063	2.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	16632	2.01	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	7295	2.07	ug/L		94
58)	Tetrachloroethene	13.43	166	12622	2.15	ug/L		96
59)	2-hexanone	13.45	43	28082	10.03	ug/L		98
60)	1,3-Dichloropropane	13.54	76	16463	2.06	ug/L		91
61)	Dibromochloromethane	13.86	129	12213	1.99	ug/L		96
62)	1,2-Dibromoethane	14.09	107	10279	2.11	ug/L		93
63)	1-Chlorohexane	14.43	91	13749	2.08	ug/L		93
64)	Chlorobenzene	14.67	112	25180	1.96	ug/L		89
65)	1,1,1,2-Tetrachloroethane	14.75	131	11592	2.11	ug/L		85
66)	Ethylbenzene	14.68	91	50842	2.10	ug/L		98
67)	m,p-Xylene	14.83	91	77707	4.23	ug/L		93
68)	o-Xylene	15.42	91	40204	2.10	ug/L		94
69)	Styrene	15.45	104	26449	2.00	ug/L		95
70)	Bromoform	15.85	173	9275	2.11	ug/L		87
72)	Isopropylbenzene	15.85	105	37212	2.16	ug/L		96
73)	Cyclohexanone	16.20	55	1896	14.49	ug/L	#	71
75)	Bromobenzene	16.47	156	13766	2.21	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	10422	2.11	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	3664	1.96	ug/L	#	93
78)	1,2,3-Trichloropropane	16.47	110	3958	2.09	ug/L		79
79)	n-Propylbenzene	16.40	91	51663	2.13	ug/L		98
80)	2-Chlorotoluene	16.64	91	38927	2.10	ug/L		97
81)	4-Chlorotoluene	16.79	91	36634	2.11	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	34365	2.17	ug/L		96
83)	sec-Butylbenzene	17.38	105	37811	2.10	ug/L		97
84)	1,3-Dichlorobenzene	17.73	146	21717	2.22	ug/L		94
85)	4-Isopropyltoluene	17.55	119	30960	2.16	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	21717	2.16	ug/L		95
87)	tert-Butylbenzene	17.39	91	8158	2.00	ug/L		91
88)	n-Butylbenzene	18.15	91	29139	1.94	ug/L		98
89)	1,2-Dichlorobenzene	18.44	146	19585	2.02	ug/L		95
90)	1,2,4-Trimethylbenzene	17.15	105	35759	2.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

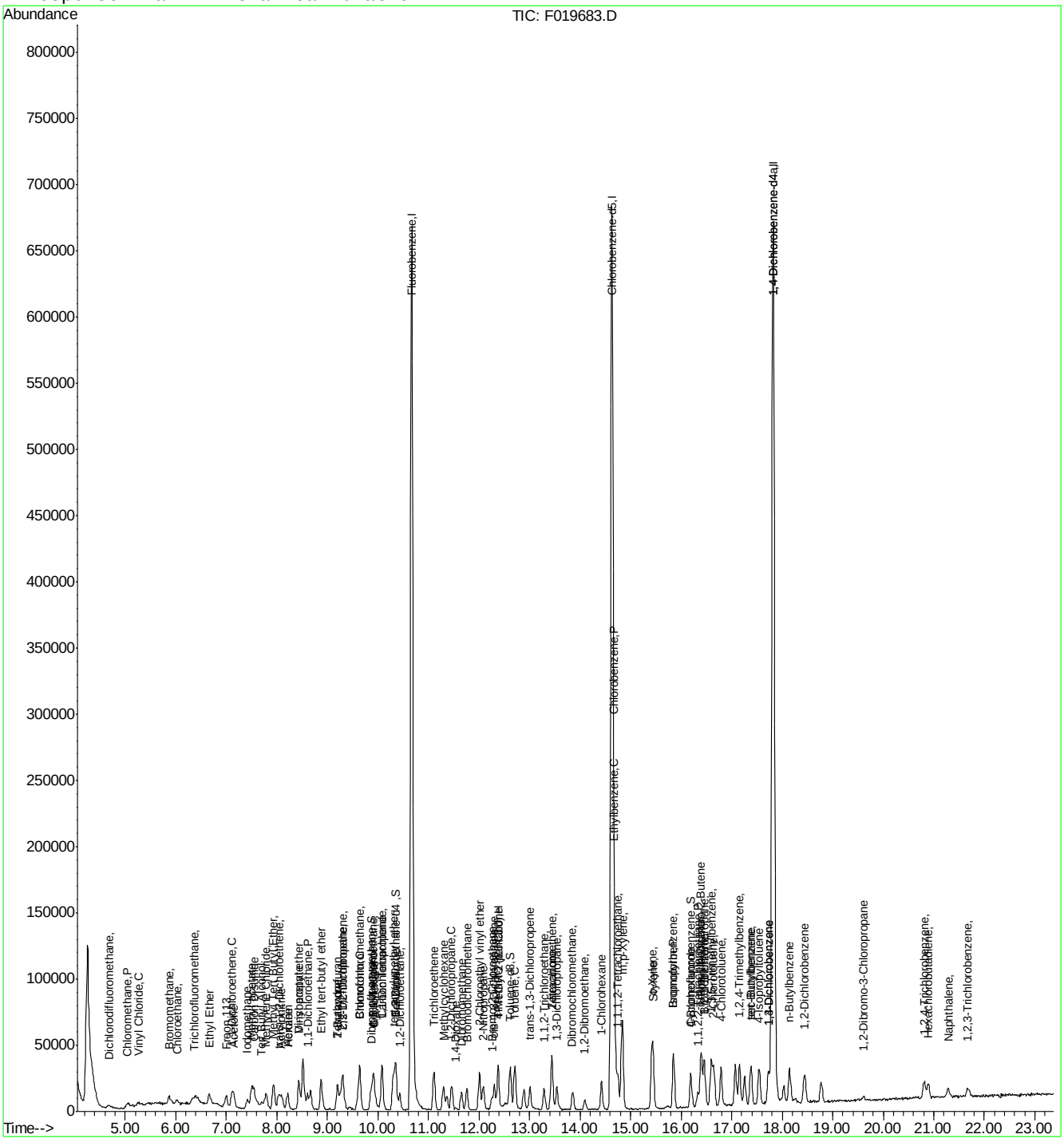
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62	ug/L	96
97)	TPH-GRO (C6-C10)	12.39	TIC	2699442m	77.34	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.68	96	1008594	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	729549	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	410756	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	410756	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	31064	4.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 9.90%#			
38) 1,2-Dichloroethane-d4	10.35	65	45217	4.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 9.90%#			
54) Toluene-d8	12.63	98	89755	4.90	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 9.80%#			
74) 4-Bromofluorobenzene	16.20	95	39760	4.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 8.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	29821	4.85	ug/L	86
3) Chloromethane	5.05	50	23140	3.67	ug/L	96
4) Vinyl Chloride	5.28	62	21305	4.12	ug/L	88
5) Bromomethane	5.89	94	19688	4.48	ug/L	93
6) Chloroethane	6.04	64	13315	4.77	ug/L	95
7) Trichlorofluoromethane	6.36	101	44400	4.84	ug/L	97
8) Acrolein	8.22	56	11785	26.82	ug/L	82
9) Ethyl Ether	6.68	59	18019	4.63	ug/L	92
10) 1,1-Dichloroethene	7.12	61	36101	4.84	ug/L	98
11) Freon 113	7.01	101	25771	5.71	ug/L	95
12) Acetone	7.17	43	41431	22.55	ug/L	96
13) Iodomethane	7.43	142	40184	4.91	ug/L	99
14) Methyl acetate	7.51	43	73699	20.61	ug/L	98
15) Carbon Disulfide	7.55	76	72047	5.06	ug/L	92
16) Methylene Chloride	7.81	49	32591	4.05	ug/L	91
17) Tert Butyl Alcohol	7.71	59	20325	44.20	ug/L	94
18) trans-1,2-Dichloroethene	8.05	61	34084	5.04	ug/L	95
19) Acrylonitrile	8.11	53	28805	24.45	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	75043	4.67	ug/L	95
21) Hexane	8.23	57	19916	5.48	ug/L	88
22) 1,1-Dichloroethane	8.61	63	44913	5.20	ug/L	100
23) Vinyl acetate	8.45	43	37606	23.44	ug/L	90
24) Di-isopropyl ether	8.45	45	82350	4.86	ug/L	100
25) Ethyl tert-butyl ether	8.89	59	81971	4.93	ug/L	97
26) 2,2-Dichloropropane	9.30	77	39547	5.28	ug/L	94
27) cis-1,2-Dichloroethene	9.32	96	29452	4.93	ug/L	94
28) 2-Butanone	9.20	43	149763	26.69	ug/L	100
29) Bromochloromethane	9.64	128	14392	5.02	ug/L	92
30) Chloroform	9.66	83	57840	4.94	ug/L	98
31) Tetrahydrofuran	9.20	42	8848	3.10	ug/L	87
32) 1,1,1-Trichloroethane	9.91	97	50661	5.00	ug/L	95
34) Cyclohexane	9.93	56	29168	5.09	ug/L	94
35) n-Butyl Alcohol	9.92	43	3818	71.44	ug/L #	18
36) 1,1-Dichloropropene	10.09	75	37240	5.13	ug/L	99

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	44794	5.11	ug/L		96
39)	Benzene	10.37	78	86060	5.14	ug/L		97
40)	1,2-Dichloroethane	10.43	62	52070	5.10	ug/L		96
41)	tert-amyl methyl ether	10.31	73	76052	4.78	ug/L		95
42)	Trichloroethene	11.12	95	33956	3.99	ug/L		97
43)	Methylcyclohexane	11.31	83	29121	5.57	ug/L		98
44)	1,2-Dichloropropane	11.48	63	20582	5.00	ug/L		92
45)	Dibromomethane	11.65	93	21073	5.27	ug/L		94
46)	1,4-Dioxane	11.54	88	3921	98.57	ug/L		88
47)	Bromodichloromethane	11.77	83	50417	5.02	ug/L		89
48)	2-Nitropropane	12.10	41	52088	23.41	ug/L		91
49)	2-Chloroethyl vinyl ether	12.02	63	47068	22.63	ug/L		99
50)	1-Bromo-2-Chloroethane	12.25	63	29153	4.76	uL/L		98
51)	4-Methyl-2-pentanone	12.38	43	97447	23.32	ug/L		98
52)	cis-1,3-Dichloropropene	12.30	75	44008	4.82	ug/L		97
55)	Toluene	12.72	91	100714	5.03	ug/L		98
56)	trans-1,3-Dichloropropene	13.02	75	42958	4.94	ug/L		97
57)	1,1,2-Trichloroethane	13.30	83	18471	4.93	ug/L		96
58)	Tetrachloroethene	13.44	166	32598	5.16	ug/L		98
59)	2-hexanone	13.46	43	67208	22.86	ug/L		99
60)	1,3-Dichloropropane	13.54	76	41077	4.86	ug/L		91
61)	Dibromochloromethane	13.87	129	32217	5.02	ug/L		91
62)	1,2-Dibromoethane	14.10	107	25682	4.93	ug/L		89
63)	1-Chlorohexane	14.43	91	33997	4.84	ug/L		93
64)	Chlorobenzene	14.69	112	65799	4.91	ug/L		96
65)	1,1,1,2-Tetrachloroethane	14.76	131	29707	5.07	ug/L		95
66)	Ethylbenzene	14.69	91	125709	4.86	ug/L		97
67)	m,p-Xylene	14.84	91	195713	9.97	ug/L		99
68)	o-Xylene	15.42	91	100092	4.90	ug/L		98
69)	Styrene	15.45	104	69831	5.03	ug/L		96
70)	Bromoform	15.86	173	21839	4.65	ug/L		97
72)	Isopropylbenzene	15.86	105	95203	5.11	ug/L		100
73)	Cyclohexanone	16.19	55	4002	25.78	ug/L	#	77
75)	Bromobenzene	16.47	156	33679	4.96	ug/L		94
76)	1,1,2,2-Tetrachloroethane	16.34	83	24048	4.54	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	8874	4.54	ug/L	#	90
78)	1,2,3-Trichloropropane	16.46	110	9378	4.63	ug/L		95
79)	n-Propylbenzene	16.40	91	129915	4.98	ug/L		98
80)	2-Chlorotoluene	16.65	91	98471	4.97	ug/L		97
81)	4-Chlorotoluene	16.79	91	87814	4.72	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	86438	5.04	ug/L		95
83)	sec-Butylbenzene	17.39	105	93386	4.84	ug/L		98
84)	1,3-Dichlorobenzene	17.74	146	53052	4.97	ug/L		98
85)	4-Isopropyltoluene	17.55	119	76756	4.95	ug/L		95
86)	1,4-Dichlorobenzene	17.86	146	55913	5.15	ug/L		84
87)	tert-Butylbenzene	17.39	91	18988	5.26	ug/L		93
88)	n-Butylbenzene	18.15	91	72211	4.62	ug/L		99
89)	1,2-Dichlorobenzene	18.45	146	48843	4.76	ug/L		94
90)	1,2,4-Trimethylbenzene	17.16	105	93031	5.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

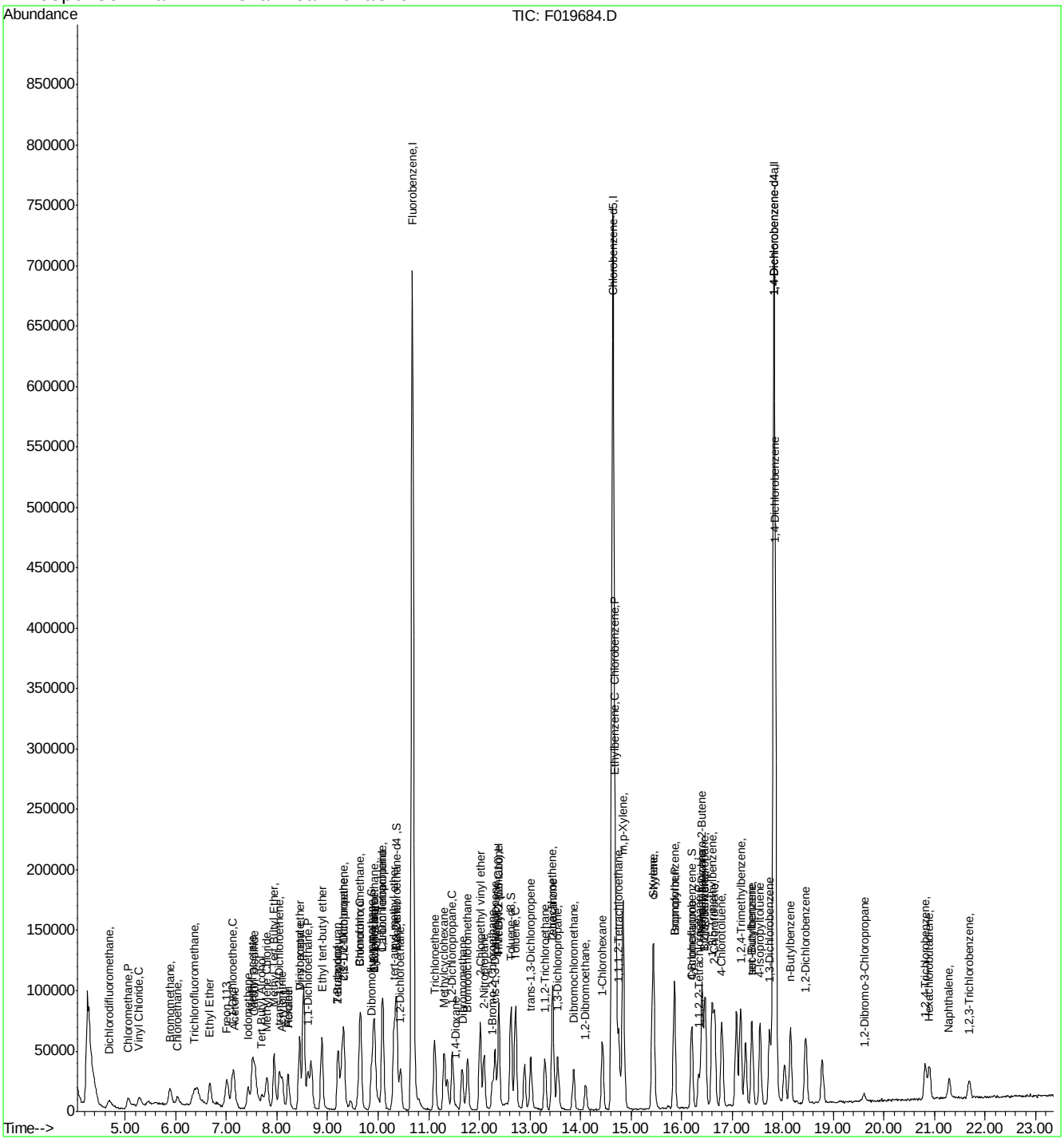
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92) 1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93) Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94) Naphthalene	21.29	128	30446	3.32	ug/L	93
95) 1,2,3-Trichlorobenzene	21.69	180	13294	3.33	ug/L	93
97) TPH-GRO (C6-C10)	12.39	TIC	9738984m	375.64	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	982414	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	707294	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	401382	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	401382	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.86	113	106812	17.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 35.02%#			
38) 1,2-Dichloroethane-d4	10.35	65	148375	16.72	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 33.44%#			
54) Toluene-d8	12.63	98	289415	16.38	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 32.76%#			
74) 4-Bromofluorobenzene	16.20	95	130166	15.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 30.70%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	100390	16.89	ug/L	96
3) Chloromethane	5.06	50	71796	12.53	ug/L	94
4) Vinyl Chloride	5.28	62	66013	12.48	ug/L	95
5) Bromomethane	5.88	94	63479	15.23	ug/L	93
6) Chloroethane	6.03	64	46084	17.07	ug/L	96
7) Trichlorofluoromethane	6.36	101	157594	17.84	ug/L	96
8) Acrolein	8.22	56	38236	87.74	ug/L	88
9) Ethyl Ether	6.67	59	63043	16.94	ug/L	99
10) 1,1-Dichloroethene	7.12	61	123920	17.18	ug/L	98
11) Freon 113	7.01	101	85797	19.61	ug/L	95
12) Acetone	7.16	43	122068	84.09	ug/L	96
13) Iodomethane	7.43	142	145509	18.34	ug/L	100
14) Methyl acetate	7.51	43	244928	73.55	ug/L	97
15) Carbon Disulfide	7.55	76	245809	17.66	ug/L	96
16) Methylene Chloride	7.80	49	107994	14.45	ug/L	97
17) Tert Butyl Alcohol	7.71	59	72450	166.59	ug/L	97
18) trans-1,2-Dichloroethene	8.04	61	120197	18.20	ug/L	97
19) Acrylonitrile	8.10	53	102041	89.42	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	263723	17.14	ug/L	96
21) Hexane	8.22	57	64717	17.85	ug/L	97
22) 1,1-Dichloroethane	8.61	63	146591	17.25	ug/L	99
23) Vinyl acetate	8.45	43	121689	79.10	ug/L	99
24) Di-isopropyl ether	8.45	45	279196	17.04	ug/L	98
25) Ethyl tert-butyl ether	8.89	59	287162	17.81	ug/L	99
26) 2,2-Dichloropropane	9.30	77	129113	17.46	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	104986	18.10	ug/L	94
28) 2-Butanone	9.20	43	502313	90.37	ug/L	100
29) Bromochloromethane	9.64	128	53369	19.08	ug/L	96
30) Chloroform	9.65	83	202549	17.81	ug/L	99
31) Tetrahydrofuran	9.20	42	49178	17.74	ug/L	95
32) 1,1,1-Trichloroethane	9.91	97	177308	17.97	ug/L	98
34) Cyclohexane	9.92	56	102404	18.27	ug/L	96
35) n-Butyl Alcohol	9.93	43	7905	159.60	ug/L	95
36) 1,1-Dichloropropene	10.08	75	131509	18.47	ug/L	94

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	153956	17.92	ug/L		98
39)	Benzene	10.36	78	296632	18.07	ug/L		93
40)	1,2-Dichloroethane	10.43	62	174702	17.47	ug/L		100
41)	tert-amyl methyl ether	10.31	73	264248	17.24	ug/L		100
42)	Trichloroethene	11.11	95	103308	13.13	ug/L		96
43)	Methylcyclohexane	11.31	83	95146	18.17	ug/L		99
44)	1,2-Dichloropropane	11.47	63	70640	17.62	ug/L		97
45)	Dibromomethane	11.65	93	70784	17.93	ug/L		97
46)	1,4-Dioxane	11.55	88	14565	345.03	ug/L		95
47)	Bromodichloromethane	11.76	83	168761	17.22	ug/L		98
48)	2-Nitropropane	12.09	41	187274	87.81	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	178146	90.07	ug/L		98
50)	1-Bromo-2-Chloroethane	12.25	63	101118	17.15	uL/L		97
51)	4-Methyl-2-pentanone	12.38	43	328138	81.99	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	155974	17.69	ug/L		97
55)	Toluene	12.72	91	337327	17.36	ug/L		99
56)	trans-1,3-Dichloropropene	13.01	75	148986	17.73	ug/L		99
57)	1,1,2-Trichloroethane	13.30	83	62592	17.30	ug/L		97
58)	Tetrachloroethene	13.44	166	109099	17.68	ug/L		97
59)	2-hexanone	13.45	43	236631	84.85	ug/L		98
60)	1,3-Dichloropropane	13.54	76	143044	17.57	ug/L		96
61)	Dibromochloromethane	13.87	129	111979	17.97	ug/L		100
62)	1,2-Dibromoethane	14.10	107	90639	18.02	ug/L		97
63)	1-Chlorohexane	14.43	91	115505	17.09	ug/L		92
64)	Chlorobenzene	14.68	112	224020	17.33	ug/L		98
65)	1,1,1,2-Tetrachloroethane	14.75	131	97467	17.10	ug/L		98
66)	Ethylbenzene	14.69	91	411556	16.54	ug/L		99
67)	m,p-Xylene	14.84	91	650473	34.21	ug/L		99
68)	o-Xylene	15.42	91	334597	16.97	ug/L		97
69)	Styrene	15.45	104	240347	17.83	ug/L		95
70)	Bromoform	15.85	173	79979	17.89	ug/L		96
72)	Isopropylbenzene	15.86	105	319385	17.45	ug/L		99
73)	Cyclohexanone	16.19	55	12353	83.58	ug/L		93
75)	Bromobenzene	16.47	156	116972	17.67	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.33	83	84699	16.74	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	33357	17.87	ug/L	#	98
78)	1,2,3-Trichloropropane	16.47	110	33963	17.47	ug/L		89
79)	n-Propylbenzene	16.40	91	435765	17.11	ug/L		97
80)	2-Chlorotoluene	16.65	91	320598	16.57	ug/L		99
81)	4-Chlorotoluene	16.79	91	299961	16.74	ug/L		94
82)	1,3,5-Trimethylbenzene	16.59	105	292120	17.40	ug/L		95
83)	sec-Butylbenzene	17.39	105	314828	16.84	ug/L		99
84)	1,3-Dichlorobenzene	17.74	146	179536	17.25	ug/L		99
85)	4-Isopropyltoluene	17.55	119	263530	17.43	ug/L		99
86)	1,4-Dichlorobenzene	17.86	146	189030	17.68	ug/L		97
87)	tert-Butylbenzene	17.39	91	58310	17.97	ug/L		99
88)	n-Butylbenzene	18.15	91	246188	16.42	ug/L		99
89)	1,2-Dichlorobenzene	18.44	146	166804	16.85	ug/L		97
90)	1,2,4-Trimethylbenzene	17.16	105	311686	17.34	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	13.52	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	34546709m	1035.15	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019685.D VF3547.M Tue Sep 15 09:55:48 2009

Quantitation Report (QT Reviewed)

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Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D          Vial: 5
Acq On    : 14 Sep 2009   2:01 pm                    Operator: AnjanaP
Sample    : ic3547-20                                Inst    : GC/MS F
Misc      : ms6979,vf3548,5,,,5,,water               Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009             Quant Results File: VF3547.RES

Method        : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title         : SW846 8260B and EPA 624
Last Update   : Tue Sep 15 08:59:11 2009
Response via  : Initial Calibration
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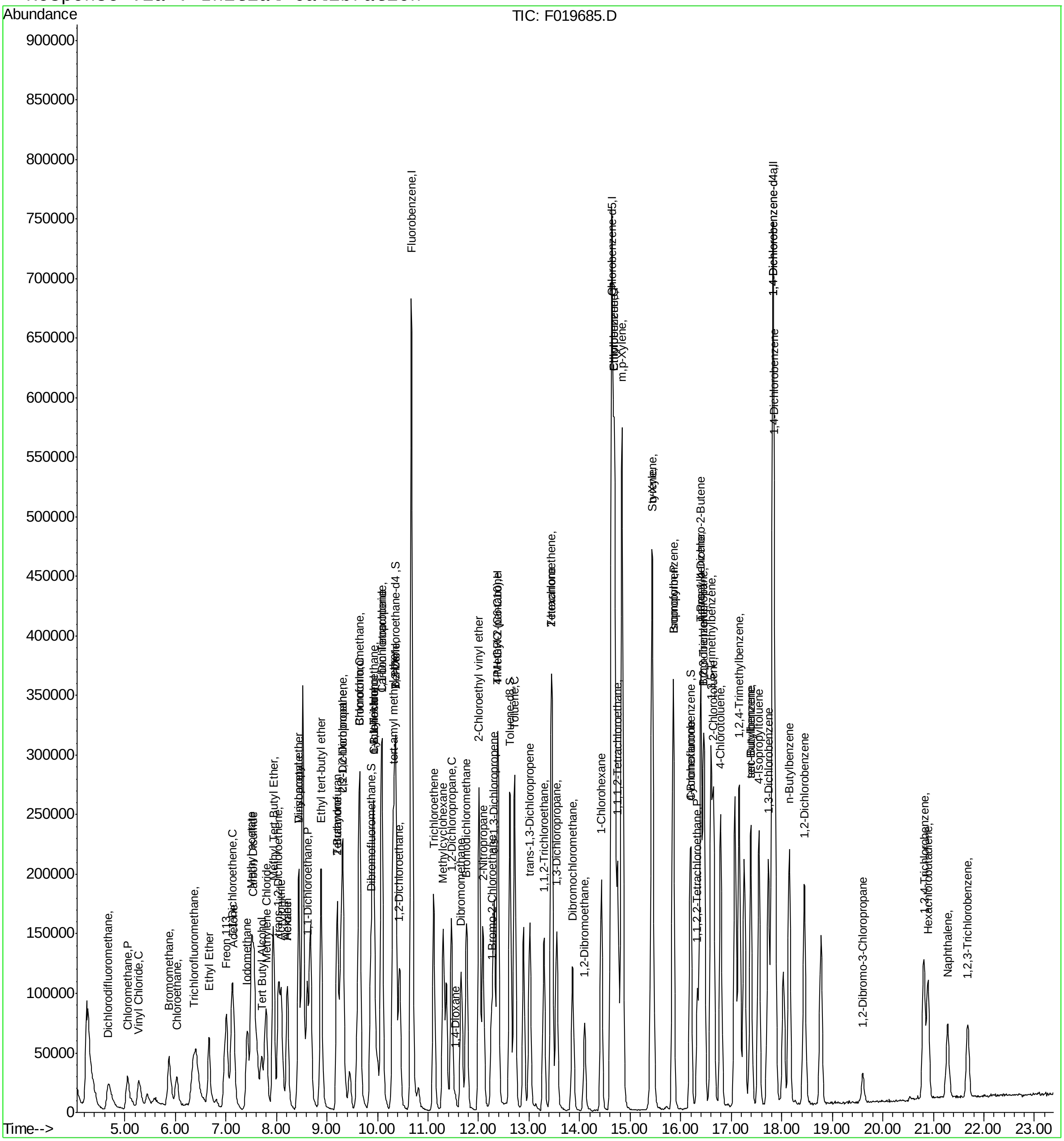


F019685.D VF3547.M Tue Sep 15 09:55:49 2009 Page 4

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	954577	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	701182	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	427426	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	427426	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	238951	42.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 84.44%			
38) 1,2-Dichloroethane-d4	10.34	65	335120	42.13	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.26%			
54) Toluene-d8	12.62	98	639112	38.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 76.04%#			
74) 4-Bromofluorobenzene	16.19	95	316247	39.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 78.50%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	266054	49.63	ug/L	100
3) Chloromethane	5.06	50	264669	55.33	ug/L	100
4) Vinyl Chloride	5.29	62	214010	53.60	ug/L	100
5) Bromomethane	5.87	94	144081	47.44	ug/L	100
6) Chloroethane	6.02	64	105128	41.24	ug/L	100
7) Trichlorofluoromethane	6.37	101	343377	41.45	ug/L	100
8) Acrolein	8.21	56	77736	187.87	ug/L	100
9) Ethyl Ether	6.67	59	140119	40.75	ug/L	100
10) 1,1-Dichloroethene	7.12	61	270698	40.47	ug/L	100
11) Freon 113	7.01	101	168400	39.16	ug/L	100
12) Acetone	7.15	43	270151	217.67	ug/L	100
13) Iodomethane	7.43	142	326886	44.08	ug/L	100
14) Methyl acetate	7.51	43	550559	200.22	ug/L	100
15) Carbon Disulfide	7.55	76	527377	40.02	ug/L	100
16) Methylene Chloride	7.79	49	234689	41.84	ug/L	100
17) Tert Butyl Alcohol	7.70	59	165114	414.56	ug/L	100
18) trans-1,2-Dichloroethene	8.05	61	259932	41.69	ug/L	100
19) Acrylonitrile	8.11	53	209357	187.55	ug/L	100
20) Methyl Tert Butyl Ether	7.94	73	589203	41.71	ug/L	100
21) Hexane	8.21	57	125799	36.52	ug/L	100
22) 1,1-Dichloroethane	8.61	63	331206	42.05	ug/L	100
23) Vinyl acetate	8.44	43	288967	207.54	ug/L	100
24) Di-isopropyl ether	8.44	45	625383	40.58	ug/L	100
25) Ethyl tert-butyl ether	8.88	59	647936	42.79	ug/L	100
26) 2,2-Dichloropropane	9.30	77	269268	41.41	ug/L	100
27) cis-1,2-Dichloroethene	9.32	96	225201	41.55	ug/L	100
28) 2-Butanone	9.21	43	1126152	211.05	ug/L	100
29) Bromochloromethane	9.64	128	117515	43.80	ug/L	100
30) Chloroform	9.65	83	450607	43.16	ug/L	100
31) Tetrahydrofuran	9.21	42	110558	47.27	ug/L	100
32) 1,1,1-Trichloroethane	9.91	97	382857	42.54	ug/L	100
34) Cyclohexane	9.93	56	207457	38.31	ug/L	100
35) n-Butyl Alcohol	9.93	43	17974	362.44	ug/L	100
36) 1,1-Dichloropropene	10.08	75	274753	40.98	ug/L	100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	328366	41.87 ug/L		100
39)	Benzene	10.36	78	627345	40.05 ug/L		100
40)	1,2-Dichloroethane	10.44	62	387366	42.62 ug/L		100
41)	tert-amyl methyl ether	10.31	73	579503	40.63 ug/L		100
42)	Trichloroethene	11.12	95	220655	41.78 ug/L		100
43)	Methylcyclohexane	11.30	83	192623	38.17 ug/L		100
44)	1,2-Dichloropropane	11.46	63	154466	40.07 ug/L		100
45)	Dibromomethane	11.66	93	157548	42.45 ug/L		100
46)	1,4-Dioxane	11.54	88	33481	865.16 ug/L		100
47)	Bromodichloromethane	11.77	83	378507	42.01 ug/L		100
48)	2-Nitropropane	12.09	41	394910	207.67 ug/L		100
49)	2-Chloroethyl vinyl ether	12.01	63	418987	211.18 ug/L		100
50)	1-Bromo-2-Chloroethane	12.26	63	224066	39.80 uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	734477	197.20 ug/L		100
52)	cis-1,3-Dichloropropene	12.31	75	350871	41.68 ug/L		100
55)	Toluene	12.71	91	733307	38.99 ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	337363	41.35 ug/L		100
57)	1,1,2-Trichloroethane	13.29	83	138375	39.30 ug/L		100
58)	Tetrachloroethene	13.44	166	226077	38.24 ug/L		100
59)	2-hexanone	13.45	43	538811	199.75 ug/L		100
60)	1,3-Dichloropropane	13.55	76	310231	39.19 ug/L		100
61)	Dibromochloromethane	13.86	129	255260	42.06 ug/L		100
62)	1,2-Dibromoethane	14.10	107	198888	40.22 ug/L		100
63)	1-Chlorohexane	14.43	91	261886	39.72 ug/L		100
64)	Chlorobenzene	14.68	112	499033	39.99 ug/L		100
65)	1,1,1,2-Tetrachloroethane	14.76	131	224581	41.62 ug/L		100
66)	Ethylbenzene	14.70	91	939005	40.10 ug/L		100
67)	m,p-Xylene	14.84	91	1470428	81.60 ug/L		100
68)	o-Xylene	15.43	91	770587	41.11 ug/L		100
69)	Styrene	15.45	104	552734	41.46 ug/L		100
70)	Bromoform	15.85	173	184700	42.77 ug/L		100
72)	Isopropylbenzene	15.85	105	739251	38.20 ug/L		100
73)	Cyclohexanone	16.18	55	31173	191.85 ug/L		100
75)	Bromobenzene	16.46	156	267664	38.69 ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	203689	38.51 ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	82619	42.19 ug/L	#	100
78)	1,2,3-Trichloropropane	16.46	110	78380	38.87 ug/L		100
79)	n-Propylbenzene	16.40	91	1023147	38.57 ug/L		100
80)	2-Chlorotoluene	16.65	91	754964	38.29 ug/L		100
81)	4-Chlorotoluene	16.79	91	710555	38.58 ug/L		100
82)	1,3,5-Trimethylbenzene	16.60	105	683562	38.94 ug/L		100
83)	sec-Butylbenzene	17.39	105	743028	38.38 ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	426987	39.52 ug/L		100
85)	4-Isopropyltoluene	17.55	119	606270	38.52 ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	450731	40.49 ug/L		100
87)	tert-Butylbenzene	17.39	91	135012	40.48 ug/L		100
88)	n-Butylbenzene	18.15	91	617060	40.50 ug/L		100
89)	1,2-Dichlorobenzene	18.45	146	422157	41.63 ug/L		100
90)	1,2,4-Trimethylbenzene	17.16	105	735859	39.22 ug/L		100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

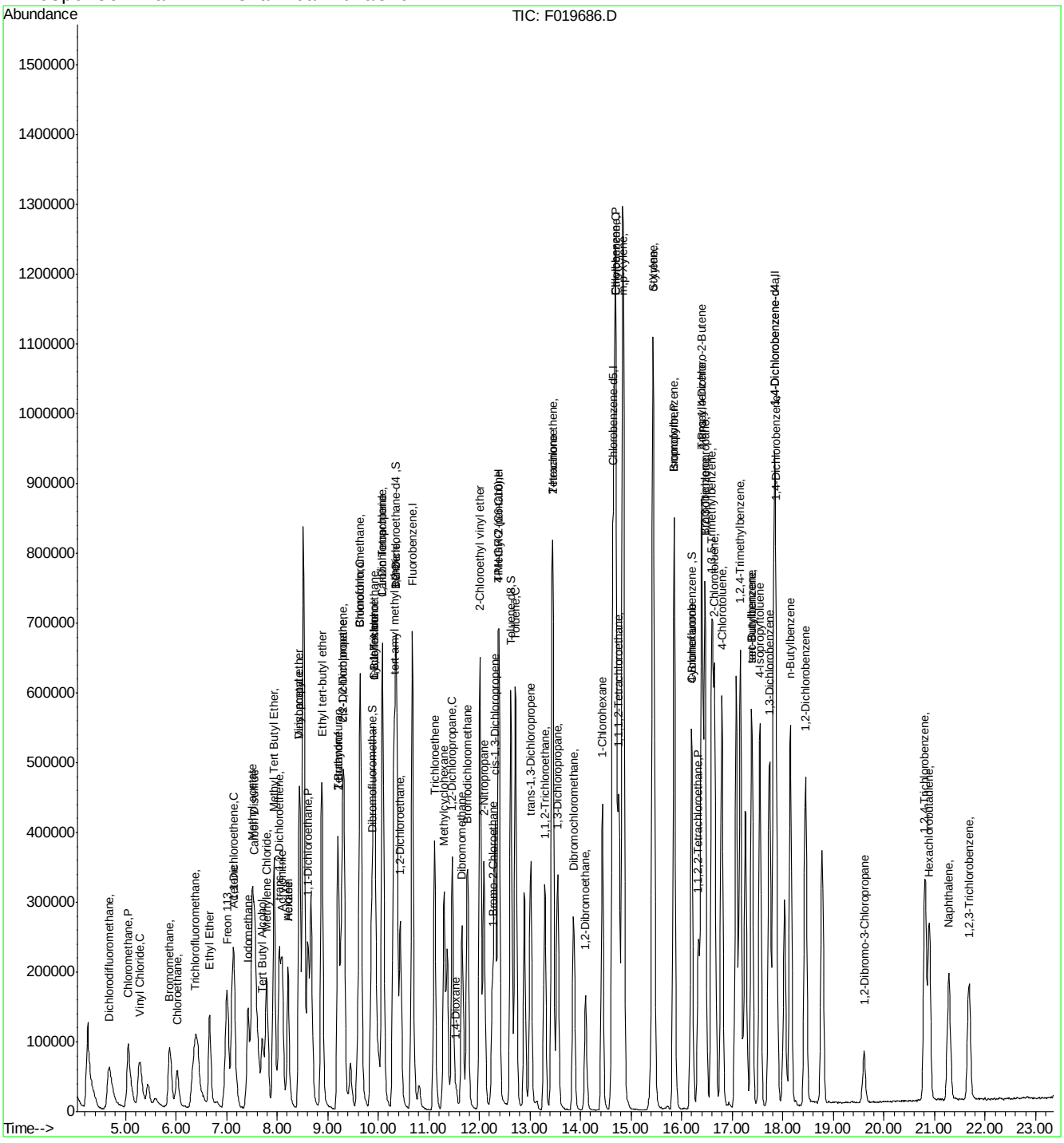
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	137998	50.22	ug/L	100
97) TPH-GRO (C6-C10)	12.39	TIC	76500698m	1791.76	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 9:01 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1439708	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1021100	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	540849	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	540849	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.87	113	807310	92.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 185.20%#			
38) 1,2-Dichloroethane-d4	10.34	65	1063847	84.60	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 169.20%#			
54) Toluene-d8	12.62	98	2357599	95.89	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 191.78%#			
74) 4-Bromofluorobenzene	16.19	95	1035681	95.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 190.16%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	713289	84.53	ug/L	99
3) Chloromethane	5.07	50	676020	87.04	ug/L	99
4) Vinyl Chloride	5.28	62	559205	73.01	ug/L	98
5) Bromomethane	5.87	94	428867	73.74	ug/L	98
6) Chloroethane	6.02	64	358141	92.25	ug/L	99
7) Trichlorofluoromethane	6.37	101	1111860	87.27	ug/L	100
8) Acrolein	8.21	56	316751	508.45	ug/L	96
9) Ethyl Ether	6.66	59	485395	91.81	ug/L	97
10) 1,1-Dichloroethene	7.12	61	943733	91.89	ug/L	99
11) Freon 113	7.01	101	591511	93.75	ug/L	96
12) Acetone	7.15	43	916749	469.37	ug/L	93
13) Iodomethane	7.43	142	1065520	93.20	ug/L	95
14) Methyl acetate	7.51	43	2089611	452.08	ug/L	99
15) Carbon Disulfide	7.55	76	1936962	97.23	ug/L	98
16) Methylene Chloride	7.79	49	837904	81.02	ug/L	97
17) Tert Butyl Alcohol	7.71	59	567512	921.23	ug/L	63
18) trans-1,2-Dichloroethene	8.05	61	910208	95.77	ug/L	97
19) Acrylonitrile	8.10	53	891951	544.90	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	1987039	90.71	ug/L	98
21) Hexane	8.21	57	518176	99.67	ug/L	92
22) 1,1-Dichloroethane	8.61	63	1116164	92.16	ug/L	97
23) Vinyl acetate	8.44	43	997670	461.82	ug/L	98
24) Di-isopropyl ether	8.44	45	2301021	98.74	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	2225120	96.26	ug/L	99
26) 2,2-Dichloropropane	9.30	77	825455	78.15	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	765941	91.84	ug/L	98
28) 2-Butanone	9.20	43	4120207	515.98	ug/L	100
29) Bromochloromethane	9.64	128	402863	99.20	ug/L	95
30) Chloroform	9.65	83	1462582	89.73	ug/L	99
31) Tetrahydrofuran	9.21	42	346654	84.06	ug/L	99
32) 1,1,1-Trichloroethane	9.91	97	1231951	86.95	ug/L	100
34) Cyclohexane	9.93	56	848602	105.12	ug/L	91
35) n-Butyl Alcohol	9.93	43	79420	1236.15	ug/L #	85
36) 1,1-Dichloropropene	10.08	75	986569	96.04	ug/L	93

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:53 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	1071023	86.87	ug/L		98
39)	Benzene	10.36	78	2409380	102.15	ug/L		94
40)	1,2-Dichloroethane	10.44	62	1253971	87.79	ug/L		98
41)	tert-amyl methyl ether	10.31	73	2101536	96.23	ug/L		96
42)	Trichloroethene	11.12	95	785129	73.10	ug/L		97
43)	Methylcyclohexane	11.30	83	795530	105.60	ug/L		98
44)	1,2-Dichloropropane	11.46	63	599569	104.52	ug/L		88
45)	Dibromomethane	11.66	93	549422	96.98	ug/L		99
46)	1,4-Dioxane	11.55	88	131960	2102.77	ug/L		94
47)	Bromodichloromethane	11.77	83	1289830	92.39	ug/L		99
48)	2-Nitropropane	12.09	41	1247322	409.05	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	1693674	596.19	ug/L		97
50)	1-Bromo-2-Chloroethane	12.26	63	881945	105.06	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	2808613	496.74	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	1308043	103.62	ug/L		92
55)	Toluene	12.72	91	2741568	100.37	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	1201341	101.31	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	524828	103.29	ug/L		95
58)	Tetrachloroethene	13.44	166	837164	96.21	ug/L		99
59)	2-hexanone	13.46	43	2024231	518.47	ug/L		95
60)	1,3-Dichloropropane	13.55	76	1176042	102.56	ug/L		92
61)	Dibromochloromethane	13.86	129	889491	100.93	ug/L		100
62)	1,2-Dibromoethane	14.10	107	739771	103.91	ug/L		98
63)	1-Chlorohexane	14.43	91	999319	105.49	ug/L		92
64)	Chlorobenzene	14.68	112	1823936	100.40	ug/L		94
65)	1,1,1,2-Tetrachloroethane	14.76	131	756339	94.65	ug/L		97
66)	Ethylbenzene	14.70	91	3287572	94.78	ug/L		98
67)	m,p-Xylene	14.85	91	5105857	191.53	ug/L		96
68)	o-Xylene	15.43	91	2681391	97.16	ug/L		97
69)	Styrene	15.45	104	2052872	107.85	ug/L		95
70)	Bromoform	15.85	173	622075	98.47	ug/L		97
72)	Isopropylbenzene	15.86	105	2602686	108.28	ug/L		98
73)	Cyclohexanone	16.18	55	108933	567.14	ug/L		92
75)	Bromobenzene	16.46	156	900545	103.35	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	707704	107.29	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	256272	104.12	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	259666	101.72	ug/L		90
79)	n-Propylbenzene	16.40	91	3495623	104.87	ug/L		100
80)	2-Chlorotoluene	16.65	91	2485836	98.74	ug/L		98
81)	4-Chlorotoluene	16.79	91	2358816	100.97	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	2301625	104.48	ug/L		100
83)	sec-Butylbenzene	17.40	105	2537476	104.04	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	1406651	103.12	ug/L		98
85)	4-Isopropyltoluene	17.55	119	2054969	103.55	ug/L		99
86)	1,4-Dichlorobenzene	17.87	146	1438104	102.21	ug/L		99
87)	tert-Butylbenzene	17.39	91	430884	103.50	ug/L		96
88)	n-Butylbenzene	18.15	91	1930950	99.13	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	1289612	99.82	ug/L		97
90)	1,2,4-Trimethylbenzene	17.17	105	2464214	104.50	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

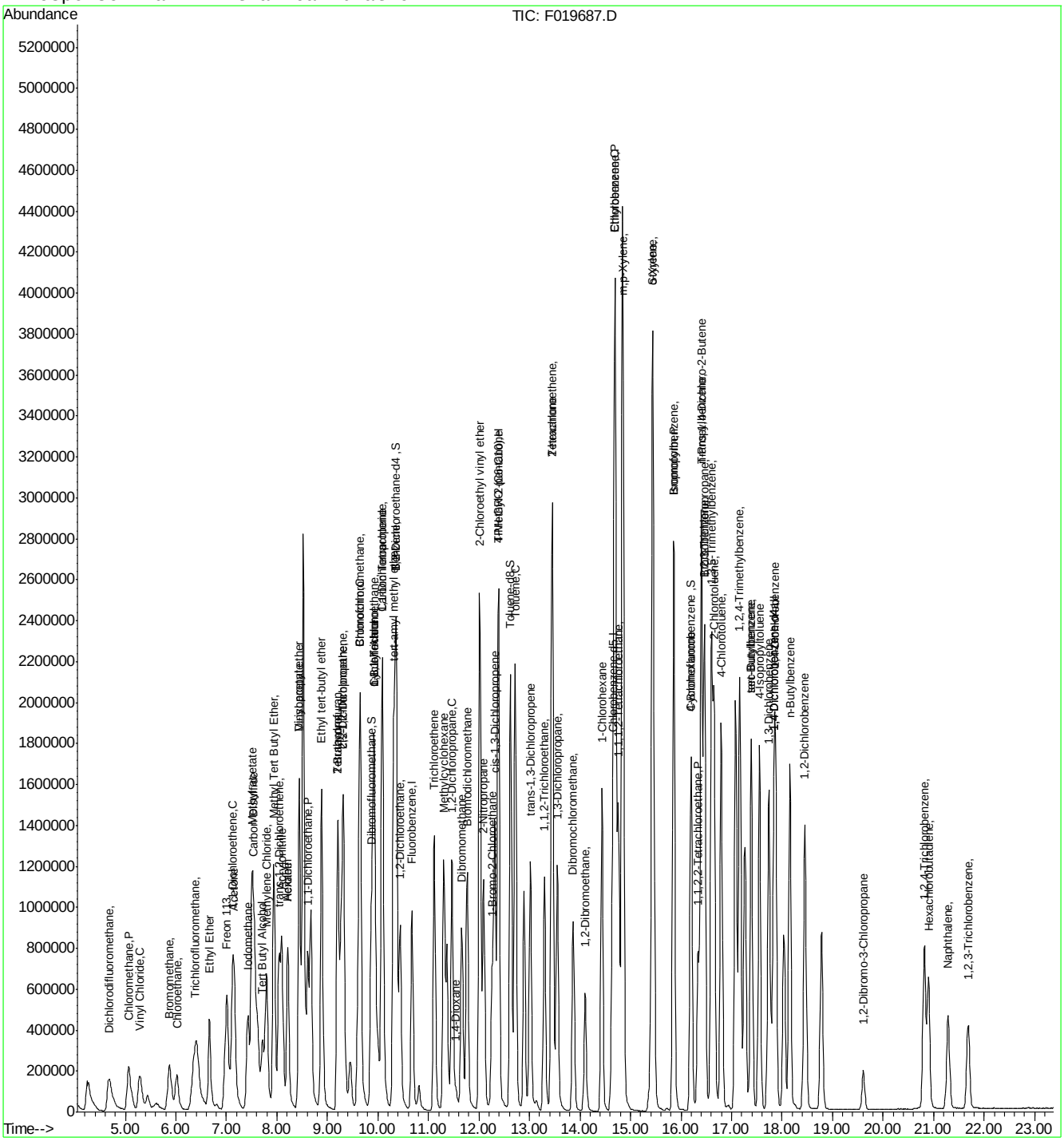
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	343273	76.28	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	262314999m	5167.96	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019687.D VF3547.M Tue Sep 15 09:55:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



F019687.D VF3547.M Tue Sep 15 09:55:56 2009 Page 4

ACCUTEST Laboratories T39646

F019688.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1476971	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1025997	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	548707	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	548707	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	1659796	187.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 375.80%#			
38) 1,2-Dichloroethane-d4	10.34	65	2146010	170.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 341.46%#			
54) Toluene-d8	12.62	98	4995482	203.60	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 407.20%#			
74) 4-Bromofluorobenzene	16.19	95	2098803	191.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 382.98%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	1492242	176.93	ug/L	96
3) Chloromethane	5.07	50	1457668	186.98	ug/L	98
4) Vinyl Chloride	5.28	62	1220567	204.89	ug/L	96
5) Bromomethane	5.84	94	915186	160.41	ug/L	98
6) Chloroethane	6.01	64	793056	214.12	ug/L	99
7) Trichlorofluoromethane	6.35	101	2434945	211.03	ug/L	100
8) Acrolein	8.21	56	636030	992.40	ug/L	96
9) Ethyl Ether	6.66	59	1028447	192.23	ug/L	99
10) 1,1-Dichloroethene	7.12	61	2017355	194.10	ug/L	98
11) Freon 113	7.01	101	1303615	214.21	ug/L	94
12) Acetone	7.16	43	1840933	979.10	ug/L	92
13) Iodomethane	7.43	142	2147119	185.16	ug/L	94
14) Methyl acetate	7.51	43	4294360	920.34	ug/L	98
15) Carbon Disulfide	7.54	76	4135455	203.28	ug/L	97
16) Methylene Chloride	7.80	49	1712823	166.71	ug/L	99
17) Tert Butyl Alcohol	7.73	59	1143348	1833.21	ug/L	77
18) trans-1,2-Dichloroethene	8.05	61	1888547	195.08	ug/L	98
19) Acrylonitrile	8.11	53	1863395	1093.28	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	4050248	183.06	ug/L	97
21) Hexane	8.21	57	1065780	199.93	ug/L	89
22) 1,1-Dichloroethane	8.61	63	2348984	191.56	ug/L	96
23) Vinyl acetate	8.45	43	1952353	892.30	ug/L	97
24) Di-isopropyl ether	8.44	45	4754627	199.29	ug/L	94
25) Ethyl tert-butyl ether	8.88	59	4524258	191.99	ug/L	98
26) 2,2-Dichloropropane	9.30	77	1556808	149.10	ug/L	96
27) cis-1,2-Dichloroethene	9.33	96	1613625	191.19	ug/L	93
28) 2-Butanone	9.21	43	8380228	1017.58	ug/L	100
29) Bromochloromethane	9.64	128	819400	196.95	ug/L	96
30) Chloroform	9.65	83	2893627	176.06	ug/L	99
31) Tetrahydrofuran	9.21	42	701728	193.50	ug/L	97
32) 1,1,1-Trichloroethane	9.91	97	2429943	170.89	ug/L	99
34) Cyclohexane	9.94	56	1706287	204.29	ug/L	91
35) n-Butyl Alcohol	9.93	43	152172	1904.44	ug/L #	84
36) 1,1-Dichloropropene	10.08	75	1960437	187.26	ug/L	92

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:56 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	2141524	173.11	ug/L		98
39)	Benzene	10.36	78	4786563	197.10	ug/L		95
40)	1,2-Dichloroethane	10.44	62	2460607	171.40	ug/L		97
41)	tert-amyl methyl ether	10.31	73	4180960	187.79	ug/L		97
42)	Trichloroethene	11.12	95	1598004	151.83	ug/L		98
43)	Methylcyclohexane	11.30	83	1569193	201.16	ug/L		99
44)	1,2-Dichloropropane	11.47	63	1234605	208.23	ug/L		86
45)	Dibromomethane	11.66	93	1100434	190.29	ug/L		98
46)	1,4-Dioxane	11.55	88	269055	3961.68	ug/L		92
47)	Bromodichloromethane	11.77	83	2550542	180.37	ug/L		100
48)	2-Nitropropane	12.10	41	2395577	789.74	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	3441389	1144.15	ug/L		98
50)	1-Bromo-2-Chloroethane	12.26	63	1773914	204.27	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	5575494	962.26	ug/L		96
52)	cis-1,3-Dichloropropene	12.32	75	2601305	199.67	ug/L		90
55)	Toluene	12.72	91	5568197	202.75	ug/L		99
56)	trans-1,3-Dichloropropene	13.02	75	2382181	199.49	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	1051897	204.91	ug/L		93
58)	Tetrachloroethene	13.44	166	1684894	193.94	ug/L		99
59)	2-hexanone	13.46	43	3946765	999.92	ug/L		94
60)	1,3-Dichloropropane	13.55	76	2330148	201.38	ug/L		92
61)	Dibromochloromethane	13.87	129	1789924	201.82	ug/L		99
62)	1,2-Dibromoethane	14.10	107	1490475	207.01	ug/L		98
63)	1-Chlorohexane	14.43	91	1980649	206.19	ug/L		93
64)	Chlorobenzene	14.69	112	3643366	199.46	ug/L		95
65)	1,1,1,2-Tetrachloroethane	14.76	131	1505471	189.18	ug/L		95
66)	Ethylbenzene	14.70	91	6513282	188.52	ug/L		99
67)	m,p-Xylene	14.85	91	9998480	375.93	ug/L		96
68)	o-Xylene	15.43	91	5281271	191.35	ug/L		97
69)	Styrene	15.46	104	4058969	209.48	ug/L		91
70)	Bromoform	15.85	173	1248450	197.18	ug/L		97
72)	Isopropylbenzene	15.86	105	5112837	206.82	ug/L		98
73)	Cyclohexanone	16.19	55	209175	954.19	ug/L		95
75)	Bromobenzene	16.47	156	1767695	198.85	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.34	83	1378777	203.56	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	502682	199.94	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	507411	195.37	ug/L		92
79)	n-Propylbenzene	16.40	91	6771023	198.62	ug/L		100
80)	2-Chlorotoluene	16.66	91	4850993	190.33	ug/L		98
81)	4-Chlorotoluene	16.79	91	4613606	194.34	ug/L		96
82)	1,3,5-Trimethylbenzene	16.61	105	4528891	201.13	ug/L		98
83)	sec-Butylbenzene	17.39	105	4898318	196.64	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	2726747	196.01	ug/L		98
85)	4-Isopropyltoluene	17.55	119	3982704	196.64	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	2812589	196.31	ug/L		99
87)	tert-Butylbenzene	17.39	91	832680	191.43	ug/L		91
88)	n-Butylbenzene	18.15	91	3703796	187.69	ug/L		98
89)	1,2-Dichlorobenzene	18.46	146	2500221	190.81	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	4794167	198.90	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:57 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

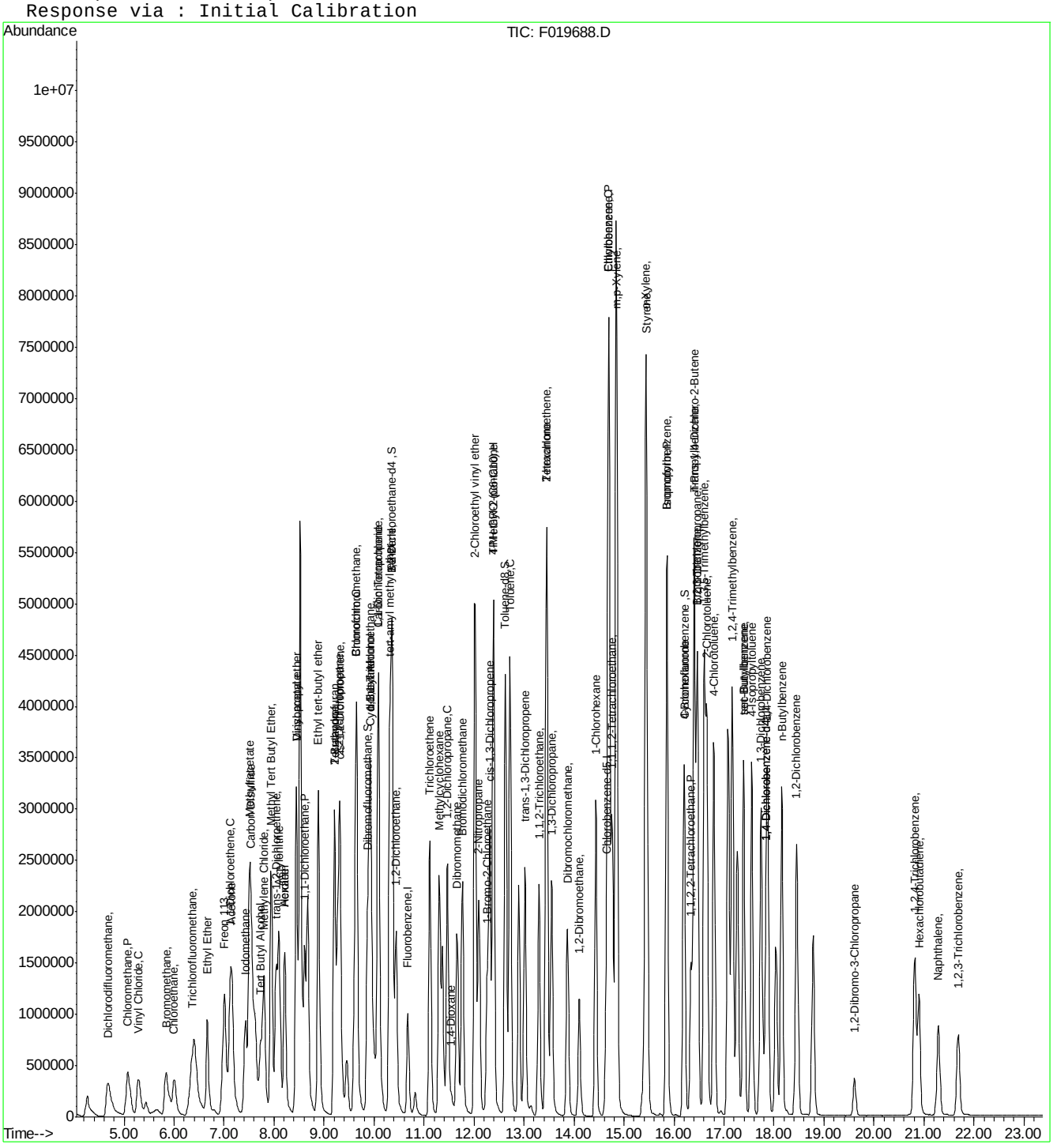
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92) 1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93) Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94) Naphthalene	21.28	128	1803651	172.78	ug/L	100
95) 1,2,3-Trichlorobenzene	21.68	180	669734	152.72	ug/L	98
97) TPH-GRO (C6-C10)	12.39	TIC	547322666m	8238.03	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019688.D VF3547.M Tue Sep 15 09:55:57 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	956208	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.63	117	697608	50.00	ug/L	-0.01
71) 1,4-Dichlorobenzene-d4	17.81	152	394454	50.00	ug/L	-0.01
96) 1,4-Dichlorobenzene-d4a	17.81	152	394454	50.00	ug/kg	-0.01

System Monitoring Compounds						
33) Dibromofluoromethane	9.85	113	6329	1.06	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 2.12%#			
38) 1,2-Dichloroethane-d4	10.34	65	9407	1.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 2.24%#			
54) Toluene-d8	12.62	98	20214	1.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 2.54%#			
74) 4-Bromofluorobenzene	16.19	95	10654	1.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.70	85	5573	0.84	ug/L	92
3) Chloromethane	5.04	50	6800	1.03	ug/L	93
4) Vinyl Chloride	5.29	62	4453	0.83	ug/L #	44
5) Bromomethane	5.88	94	4656	1.29	ug/L	87
6) Chloroethane	6.02	64	3011	1.14	ug/L	73
7) Trichlorofluoromethane	6.36	101	9437	1.10	ug/L	81
8) Acrolein	8.21	56	2060	5.29	ug/L	59
9) Ethyl Ether	6.67	59	3720	1.06	ug/L	88
10) 1,1-Dichloroethene	7.10	61	6980	1.03	ug/L	95
11) Freon 113	6.97	101	3967	0.94	ug/L	88
12) Acetone	7.15	43	16378	12.10	ug/L	82
13) Iodomethane	7.41	142	7314	0.89	ug/L #	91
14) Methyl acetate	7.50	43	20795	7.54	ug/L	90
15) Carbon Disulfide	7.54	76	13743	1.04	ug/L	96
16) Methylene Chloride	7.78	49	9543	1.62	ug/L	84
17) Tert Butyl Alcohol	7.69	59	4649	11.24	ug/L	70
18) trans-1,2-Dichloroethene	8.04	61	6217	0.96	ug/L	86
19) Acrylonitrile	8.09	53	5791	5.52	ug/L	91
20) Methyl Tert Butyl Ether	7.92	73	15482	1.05	ug/L	93
21) Hexane	8.22	57	3470	1.10	ug/L	78
22) 1,1-Dichloroethane	8.60	63	7844	0.95	ug/L	97
23) Vinyl acetate	8.43	43	8397	5.80	ug/L	89
24) Di-isopropyl ether	8.43	45	17043	1.09	ug/L	93
25) Ethyl tert-butyl ether	8.87	59	15836	0.98	ug/L	94
26) 2,2-Dichloropropane	9.28	77	7239	1.07	ug/L	92
27) cis-1,2-Dichloroethene	9.31	96	5498	0.97	ug/L	96
28) 2-Butanone	9.20	43	21865	3.87	ug/L	100
29) Bromochloromethane	9.64	128	2400	0.82	ug/L	88
30) Chloroform	9.64	83	10452	0.93	ug/L	92
31) Tetrahydrofuran	9.20	42	3341	1.21	ug/L	75
32) 1,1,1-Trichloroethane	9.90	97	9311	0.97	ug/L	95
34) Cyclohexane	9.92	56	5124	0.99	ug/L	88
35) n-Butyl Alcohol	9.91	43	309	6.86	ug/L #	1
36) 1,1-Dichloropropene	10.07	75	6645	0.97	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	8163	0.99	ug/L		95
39)	Benzene	10.36	78	15506	0.99	ug/L		98
40)	1,2-Dichloroethane	10.42	62	9792	1.01	ug/L		94
41)	tert-amyl methyl ether	10.31	73	15768	1.09	ug/L		86
42)	Trichloroethene	11.10	95	10733	1.94	ug/L		98
43)	Methylcyclohexane	11.29	83	4948	1.03	ug/L		95
44)	1,2-Dichloropropane	11.46	63	3850	1.00	ug/L		87
45)	Dibromomethane	11.65	93	3620	0.92	ug/L		93
47)	Bromodichloromethane	11.75	83	9855	1.04	ug/L		97
48)	2-Nitropropane	12.08	41	10680	5.40	ug/L		91
49)	2-Chloroethyl vinyl ether	12.01	63	9868	4.70	ug/L		84
50)	1-Bromo-2-Chloroethane	12.25	63	5967	1.06	uL/L		94
51)	4-Methyl-2-pentanone	12.38	43	21101	5.74	ug/L		96
52)	cis-1,3-Dichloropropene	12.30	75	8656	0.99	ug/L		96
55)	Toluene	12.71	91	19583	1.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	8212	0.98	ug/L		89
57)	1,1,2-Trichloroethane	13.29	83	3637	1.06	ug/L		93
58)	Tetrachloroethene	13.43	166	6155	1.09	ug/L		90
59)	2-hexanone	13.44	43	14675	5.48	ug/L		97
60)	1,3-Dichloropropane	13.54	76	8286	1.07	ug/L		88
61)	Dibromochloromethane	13.87	129	5946	0.94	ug/L		93
62)	1,2-Dibromoethane	14.09	107	4835	0.98	ug/L		83
63)	1-Chlorohexane	14.43	91	6754	1.04	ug/L		91
64)	Chlorobenzene	14.68	112	13385	1.08	ug/L		97
65)	1,1,1,2-Tetrachloroethane	14.75	131	5410	0.97	ug/L	#	70
66)	Ethylbenzene	14.68	91	25295	1.08	ug/L		92
67)	m,p-Xylene	14.83	91	37073	2.03	ug/L		98
68)	o-Xylene	15.41	91	19304	1.01	ug/L		99
69)	Styrene	15.44	104	12803	0.93	ug/L		96
70)	Bromoform	15.84	173	4214	0.92	ug/L		92
72)	Isopropylbenzene	15.85	105	17798	1.04	ug/L		94
73)	Cyclohexanone	16.16	55	544	3.78	ug/L	#	27
75)	Bromobenzene	16.46	156	6422	1.04	ug/L		91
76)	1,1,2,2-Tetrachloroethane	16.33	83	5303	1.13	ug/L		83
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	1873	0.98	ug/L	#	87
78)	1,2,3-Trichloropropane	16.46	110	2029	1.12	ug/L		75
79)	n-Propylbenzene	16.39	91	25454	1.08	ug/L		100
80)	2-Chlorotoluene	16.64	91	20035	1.15	ug/L		96
81)	4-Chlorotoluene	16.79	91	18670	1.14	ug/L		92
82)	1,3,5-Trimethylbenzene	16.59	105	16231	1.03	ug/L		96
83)	sec-Butylbenzene	17.38	105	19271	1.12	ug/L		99
84)	1,3-Dichlorobenzene	17.73	146	9900	1.00	ug/L		90
85)	4-Isopropyltoluene	17.54	119	15037	1.08	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	9900	0.95	ug/L		89
87)	tert-Butylbenzene	17.55	91	5185	1.66	ug/L	#	68
88)	n-Butylbenzene	18.15	91	16098	1.13	ug/L		94
89)	1,2-Dichlorobenzene	18.43	146	9891	1.02	ug/L		92
90)	1,2,4-Trimethylbenzene	17.15	105	17749	1.05	ug/L		89
91)	1,2-Dibromo-3-Chloropropan	19.59	75	1180	1.16	ug/L	#	52

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

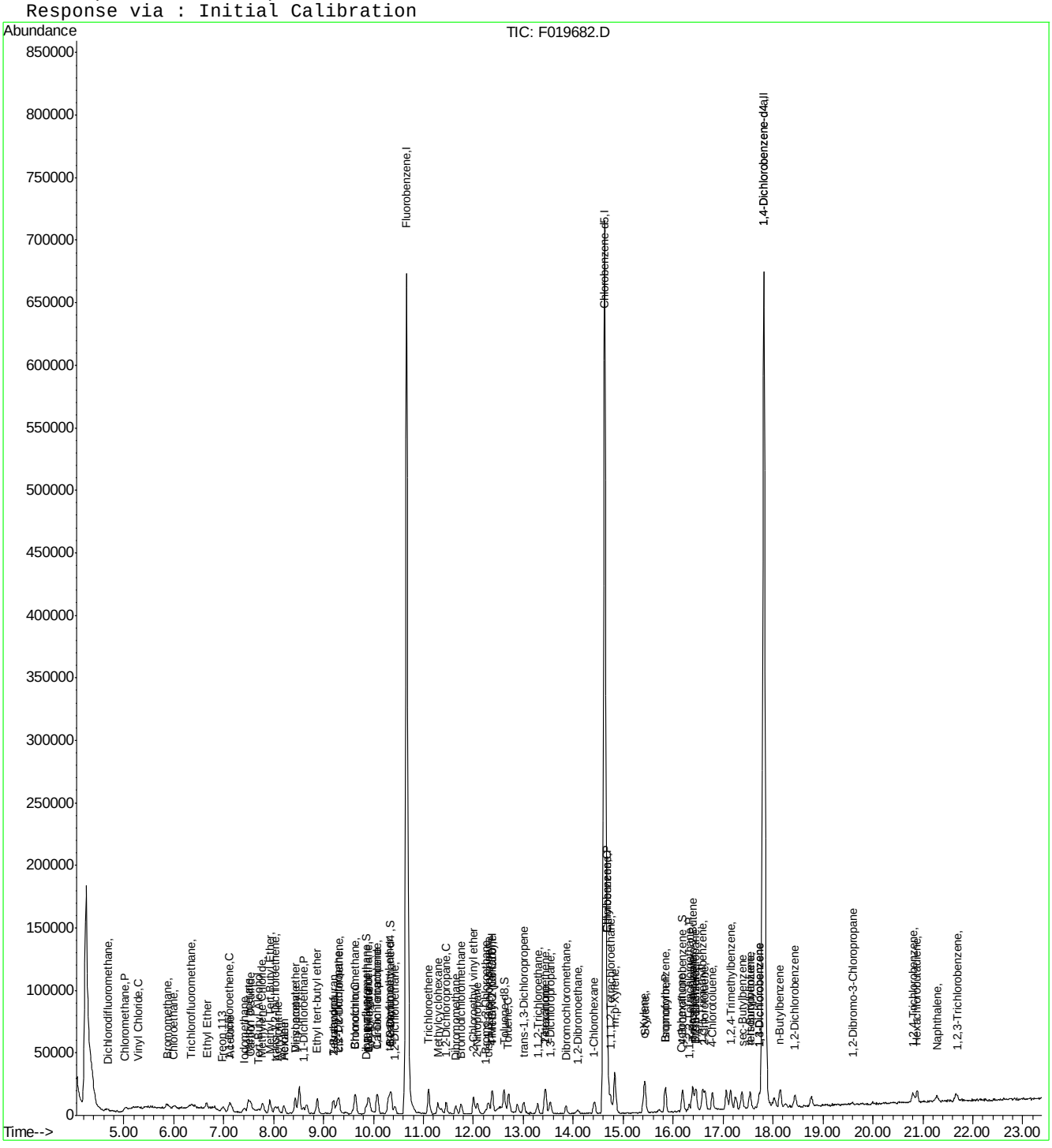
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92) 1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93) Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94) Naphthalene	21.28	128	10874	1.28	ug/L	98
95) 1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97) TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	947288	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	695473	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	390028	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	390028	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	10997	1.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 3.60%#			
38) 1,2-Dichloroethane-d4	10.34	65	16182	1.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 3.68%#			
54) Toluene-d8	12.62	98	32778	1.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.64%#			
74) 4-Bromofluorobenzene	16.19	95	15304	1.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.44%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	10398	1.72	ug/L	96
3) Chloromethane	5.04	50	8884	1.34	ug/L	88
4) Vinyl Chloride	5.28	62	7538	1.59	ug/L	98
5) Bromomethane	5.87	94	8374	2.05	ug/L	86
6) Chloroethane	6.03	64	4985	1.77	ug/L	97
7) Trichlorofluoromethane	6.36	101	17233	1.93	ug/L	97
8) Acrolein	8.21	56	4442	11.19	ug/L	59
9) Ethyl Ether	6.66	59	7617	2.13	ug/L	93
10) 1,1-Dichloroethene	7.11	61	14802	2.17	ug/L	98
11) Freon 113	7.00	101	9430	2.31	ug/L	89
12) Acetone	7.16	43	22736	10.04	ug/L	98
13) Iodomethane	7.42	142	15389	2.00	ug/L	97
14) Methyl acetate	7.51	43	32239	9.41	ug/L	95
15) Carbon Disulfide	7.55	76	26918	2.02	ug/L	99
16) Methylene Chloride	7.79	49	14838	1.94	ug/L	91
17) Tert Butyl Alcohol	7.71	59	8508	19.55	ug/L	86
18) trans-1,2-Dichloroethene	8.03	61	12921	2.05	ug/L	91
19) Acrylonitrile	8.09	53	11329	10.36	ug/L	94
20) Methyl Tert Butyl Ether	7.93	73	30605	2.04	ug/L	97
21) Hexane	8.21	57	7369	2.25	ug/L	94
22) 1,1-Dichloroethane	8.61	63	16703	2.09	ug/L	92
23) Vinyl acetate	8.44	43	14233	9.19	ug/L	88
24) Di-isopropyl ether	8.44	45	30683	1.89	ug/L	98
25) Ethyl tert-butyl ether	8.88	59	30080	1.89	ug/L	92
26) 2,2-Dichloropropane	9.29	77	14488	2.09	ug/L	99
27) cis-1,2-Dichloroethene	9.31	96	11621	2.11	ug/L	94
28) 2-Butanone	9.20	43	58802	11.84	ug/L	100
29) Bromochloromethane	9.65	128	5581	2.11	ug/L	98
30) Chloroform	9.65	83	22923	2.13	ug/L	98
31) Tetrahydrofuran	9.21	42	4525	1.45	ug/L	78
32) 1,1,1-Trichloroethane	9.90	97	19652	2.10	ug/L	94
34) Cyclohexane	9.93	56	11839	2.32	ug/L	83
35) n-Butyl Alcohol	9.92	43	1980	47.24	ug/L #	28
36) 1,1-Dichloropropene	10.08	75	14123	2.11	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	16977	2.09	ug/L		98
39)	Benzene	10.36	78	32415	2.10	ug/L		87
40)	1,2-Dichloroethane	10.43	62	18959	1.96	ug/L		95
41)	tert-amyl methyl ether	10.31	73	29652	1.98	ug/L		96
42)	Trichloroethene	11.11	95	15738	1.95	ug/L		97
43)	Methylcyclohexane	11.30	83	10094	2.09	ug/L		96
44)	1,2-Dichloropropane	11.46	63	7906	2.07	ug/L		93
45)	Dibromomethane	11.65	93	7546	2.01	ug/L		82
46)	1,4-Dioxane	11.56	88	1216	29.28	ug/L	#	63
47)	Bromodichloromethane	11.76	83	18337	1.91	ug/L		96
48)	2-Nitropropane	12.09	41	21935	10.76	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	18258	9.05	ug/L		88
50)	1-Bromo-2-Chloroethane	12.25	63	11589	2.02	uL/L		100
51)	4-Methyl-2-pentanone	12.38	43	39511	10.10	ug/L		97
52)	cis-1,3-Dichloropropene	12.30	75	16922	1.96	ug/L		89
55)	Toluene	12.71	91	39063	2.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	16632	2.01	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	7295	2.07	ug/L		94
58)	Tetrachloroethene	13.43	166	12622	2.15	ug/L		96
59)	2-hexanone	13.45	43	28082	10.03	ug/L		98
60)	1,3-Dichloropropane	13.54	76	16463	2.06	ug/L		91
61)	Dibromochloromethane	13.86	129	12213	1.99	ug/L		96
62)	1,2-Dibromoethane	14.09	107	10279	2.11	ug/L		93
63)	1-Chlorohexane	14.43	91	13749	2.08	ug/L		93
64)	Chlorobenzene	14.67	112	25180	1.96	ug/L		89
65)	1,1,1,2-Tetrachloroethane	14.75	131	11592	2.11	ug/L		85
66)	Ethylbenzene	14.68	91	50842	2.10	ug/L		98
67)	m,p-Xylene	14.83	91	77707	4.23	ug/L		93
68)	o-Xylene	15.42	91	40204	2.10	ug/L		94
69)	Styrene	15.45	104	26449	2.00	ug/L		95
70)	Bromoform	15.85	173	9275	2.11	ug/L		87
72)	Isopropylbenzene	15.85	105	37212	2.16	ug/L		96
73)	Cyclohexanone	16.20	55	1896	14.49	ug/L	#	71
75)	Bromobenzene	16.47	156	13766	2.21	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	10422	2.11	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	3664	1.96	ug/L	#	93
78)	1,2,3-Trichloropropane	16.47	110	3958	2.09	ug/L		79
79)	n-Propylbenzene	16.40	91	51663	2.13	ug/L		98
80)	2-Chlorotoluene	16.64	91	38927	2.10	ug/L		97
81)	4-Chlorotoluene	16.79	91	36634	2.11	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	34365	2.17	ug/L		96
83)	sec-Butylbenzene	17.38	105	37811	2.10	ug/L		97
84)	1,3-Dichlorobenzene	17.73	146	21717	2.22	ug/L		94
85)	4-Isopropyltoluene	17.55	119	30960	2.16	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	21717	2.16	ug/L		95
87)	tert-Butylbenzene	17.39	91	8158	2.00	ug/L		91
88)	n-Butylbenzene	18.15	91	29139	1.94	ug/L		98
89)	1,2-Dichlorobenzene	18.44	146	19585	2.02	ug/L		95
90)	1,2,4-Trimethylbenzene	17.15	105	35759	2.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

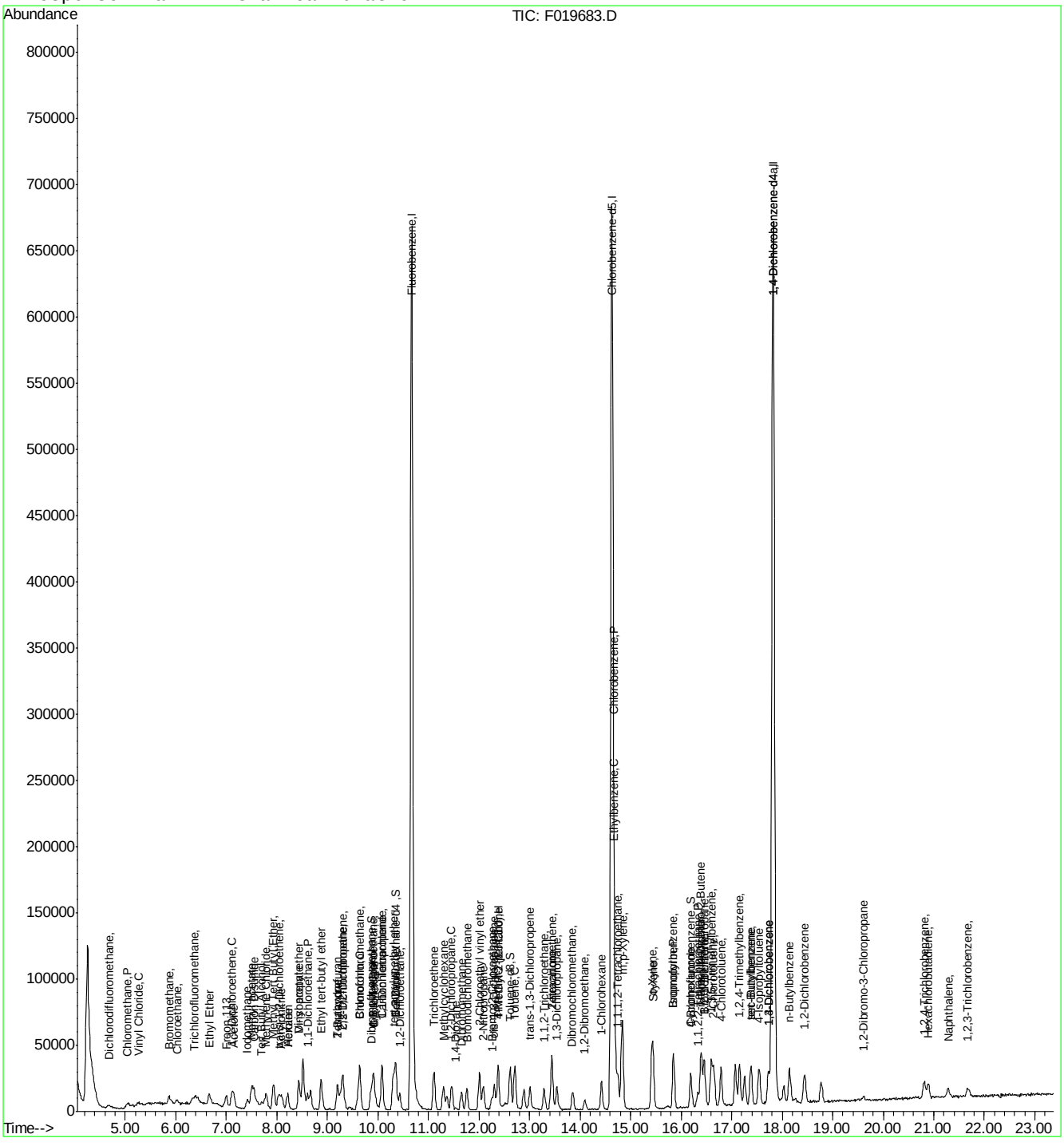
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62	ug/L	96
97)	TPH-GRO (C6-C10)	12.39	TIC	2699442m	77.34	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.68	96	1008594	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	729549	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	410756	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	410756	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	31064	4.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 9.90%#			
38) 1,2-Dichloroethane-d4	10.35	65	45217	4.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 9.90%#			
54) Toluene-d8	12.63	98	89755	4.90	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 9.80%#			
74) 4-Bromofluorobenzene	16.20	95	39760	4.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 8.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	29821	4.85	ug/L	86
3) Chloromethane	5.05	50	23140	3.67	ug/L	96
4) Vinyl Chloride	5.28	62	21305	4.12	ug/L	88
5) Bromomethane	5.89	94	19688	4.48	ug/L	93
6) Chloroethane	6.04	64	13315	4.77	ug/L	95
7) Trichlorofluoromethane	6.36	101	44400	4.84	ug/L	97
8) Acrolein	8.22	56	11785	26.82	ug/L	82
9) Ethyl Ether	6.68	59	18019	4.63	ug/L	92
10) 1,1-Dichloroethene	7.12	61	36101	4.84	ug/L	98
11) Freon 113	7.01	101	25771	5.71	ug/L	95
12) Acetone	7.17	43	41431	22.55	ug/L	96
13) Iodomethane	7.43	142	40184	4.91	ug/L	99
14) Methyl acetate	7.51	43	73699	20.61	ug/L	98
15) Carbon Disulfide	7.55	76	72047	5.06	ug/L	92
16) Methylene Chloride	7.81	49	32591	4.05	ug/L	91
17) Tert Butyl Alcohol	7.71	59	20325	44.20	ug/L	94
18) trans-1,2-Dichloroethene	8.05	61	34084	5.04	ug/L	95
19) Acrylonitrile	8.11	53	28805	24.45	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	75043	4.67	ug/L	95
21) Hexane	8.23	57	19916	5.48	ug/L	88
22) 1,1-Dichloroethane	8.61	63	44913	5.20	ug/L	100
23) Vinyl acetate	8.45	43	37606	23.44	ug/L	90
24) Di-isopropyl ether	8.45	45	82350	4.86	ug/L	100
25) Ethyl tert-butyl ether	8.89	59	81971	4.93	ug/L	97
26) 2,2-Dichloropropane	9.30	77	39547	5.28	ug/L	94
27) cis-1,2-Dichloroethene	9.32	96	29452	4.93	ug/L	94
28) 2-Butanone	9.20	43	149763	26.69	ug/L	100
29) Bromochloromethane	9.64	128	14392	5.02	ug/L	92
30) Chloroform	9.66	83	57840	4.94	ug/L	98
31) Tetrahydrofuran	9.20	42	8848	3.10	ug/L	87
32) 1,1,1-Trichloroethane	9.91	97	50661	5.00	ug/L	95
34) Cyclohexane	9.93	56	29168	5.09	ug/L	94
35) n-Butyl Alcohol	9.92	43	3818	71.44	ug/L #	18
36) 1,1-Dichloropropene	10.09	75	37240	5.13	ug/L	99

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	44794	5.11	ug/L		96
39)	Benzene	10.37	78	86060	5.14	ug/L		97
40)	1,2-Dichloroethane	10.43	62	52070	5.10	ug/L		96
41)	tert-amyl methyl ether	10.31	73	76052	4.78	ug/L		95
42)	Trichloroethene	11.12	95	33956	3.99	ug/L		97
43)	Methylcyclohexane	11.31	83	29121	5.57	ug/L		98
44)	1,2-Dichloropropane	11.48	63	20582	5.00	ug/L		92
45)	Dibromomethane	11.65	93	21073	5.27	ug/L		94
46)	1,4-Dioxane	11.54	88	3921	98.57	ug/L		88
47)	Bromodichloromethane	11.77	83	50417	5.02	ug/L		89
48)	2-Nitropropane	12.10	41	52088	23.41	ug/L		91
49)	2-Chloroethyl vinyl ether	12.02	63	47068	22.63	ug/L		99
50)	1-Bromo-2-Chloroethane	12.25	63	29153	4.76	uL/L		98
51)	4-Methyl-2-pentanone	12.38	43	97447	23.32	ug/L		98
52)	cis-1,3-Dichloropropene	12.30	75	44008	4.82	ug/L		97
55)	Toluene	12.72	91	100714	5.03	ug/L		98
56)	trans-1,3-Dichloropropene	13.02	75	42958	4.94	ug/L		97
57)	1,1,2-Trichloroethane	13.30	83	18471	4.93	ug/L		96
58)	Tetrachloroethene	13.44	166	32598	5.16	ug/L		98
59)	2-hexanone	13.46	43	67208	22.86	ug/L		99
60)	1,3-Dichloropropane	13.54	76	41077	4.86	ug/L		91
61)	Dibromochloromethane	13.87	129	32217	5.02	ug/L		91
62)	1,2-Dibromoethane	14.10	107	25682	4.93	ug/L		89
63)	1-Chlorohexane	14.43	91	33997	4.84	ug/L		93
64)	Chlorobenzene	14.69	112	65799	4.91	ug/L		96
65)	1,1,1,2-Tetrachloroethane	14.76	131	29707	5.07	ug/L		95
66)	Ethylbenzene	14.69	91	125709	4.86	ug/L		97
67)	m,p-Xylene	14.84	91	195713	9.97	ug/L		99
68)	o-Xylene	15.42	91	100092	4.90	ug/L		98
69)	Styrene	15.45	104	69831	5.03	ug/L		96
70)	Bromoform	15.86	173	21839	4.65	ug/L		97
72)	Isopropylbenzene	15.86	105	95203	5.11	ug/L		100
73)	Cyclohexanone	16.19	55	4002	25.78	ug/L	#	77
75)	Bromobenzene	16.47	156	33679	4.96	ug/L		94
76)	1,1,2,2-Tetrachloroethane	16.34	83	24048	4.54	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	8874	4.54	ug/L	#	90
78)	1,2,3-Trichloropropane	16.46	110	9378	4.63	ug/L		95
79)	n-Propylbenzene	16.40	91	129915	4.98	ug/L		98
80)	2-Chlorotoluene	16.65	91	98471	4.97	ug/L		97
81)	4-Chlorotoluene	16.79	91	87814	4.72	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	86438	5.04	ug/L		95
83)	sec-Butylbenzene	17.39	105	93386	4.84	ug/L		98
84)	1,3-Dichlorobenzene	17.74	146	53052	4.97	ug/L		98
85)	4-Isopropyltoluene	17.55	119	76756	4.95	ug/L		95
86)	1,4-Dichlorobenzene	17.86	146	55913	5.15	ug/L		84
87)	tert-Butylbenzene	17.39	91	18988	5.26	ug/L		93
88)	n-Butylbenzene	18.15	91	72211	4.62	ug/L		99
89)	1,2-Dichlorobenzene	18.45	146	48843	4.76	ug/L		94
90)	1,2,4-Trimethylbenzene	17.16	105	93031	5.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

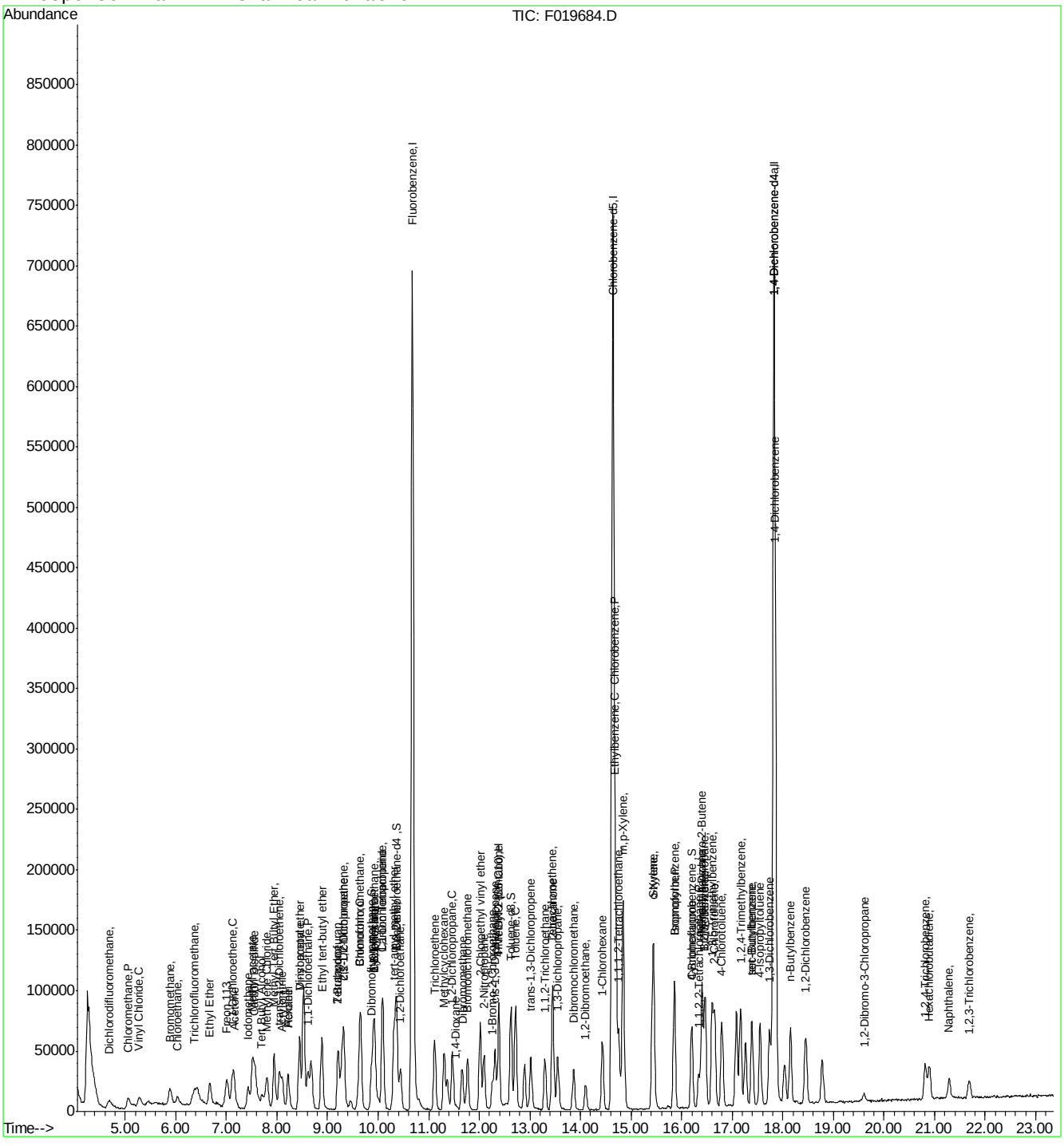
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92)	1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93)	Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94)	Naphthalene	21.29	128	30446	3.32	ug/L	93
95)	1,2,3-Trichlorobenzene	21.69	180	13294	3.33	ug/L	93
97)	TPH-GRO (C6-C10)	12.39	TIC	9738984m	375.64	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	982414	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	707294	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	401382	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	401382	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.86	113	106812	17.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 35.02%#			
38) 1,2-Dichloroethane-d4	10.35	65	148375	16.72	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 33.44%#			
54) Toluene-d8	12.63	98	289415	16.38	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 32.76%#			
74) 4-Bromofluorobenzene	16.20	95	130166	15.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 30.70%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	100390	16.89	ug/L	96
3) Chloromethane	5.06	50	71796	12.53	ug/L	94
4) Vinyl Chloride	5.28	62	66013	12.48	ug/L	95
5) Bromomethane	5.88	94	63479	15.23	ug/L	93
6) Chloroethane	6.03	64	46084	17.07	ug/L	96
7) Trichlorofluoromethane	6.36	101	157594	17.84	ug/L	96
8) Acrolein	8.22	56	38236	87.74	ug/L	88
9) Ethyl Ether	6.67	59	63043	16.94	ug/L	99
10) 1,1-Dichloroethene	7.12	61	123920	17.18	ug/L	98
11) Freon 113	7.01	101	85797	19.61	ug/L	95
12) Acetone	7.16	43	122068	84.09	ug/L	96
13) Iodomethane	7.43	142	145509	18.34	ug/L	100
14) Methyl acetate	7.51	43	244928	73.55	ug/L	97
15) Carbon Disulfide	7.55	76	245809	17.66	ug/L	96
16) Methylene Chloride	7.80	49	107994	14.45	ug/L	97
17) Tert Butyl Alcohol	7.71	59	72450	166.59	ug/L	97
18) trans-1,2-Dichloroethene	8.04	61	120197	18.20	ug/L	97
19) Acrylonitrile	8.10	53	102041	89.42	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	263723	17.14	ug/L	96
21) Hexane	8.22	57	64717	17.85	ug/L	97
22) 1,1-Dichloroethane	8.61	63	146591	17.25	ug/L	99
23) Vinyl acetate	8.45	43	121689	79.10	ug/L	99
24) Di-isopropyl ether	8.45	45	279196	17.04	ug/L	98
25) Ethyl tert-butyl ether	8.89	59	287162	17.81	ug/L	99
26) 2,2-Dichloropropane	9.30	77	129113	17.46	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	104986	18.10	ug/L	94
28) 2-Butanone	9.20	43	502313	90.37	ug/L	100
29) Bromochloromethane	9.64	128	53369	19.08	ug/L	96
30) Chloroform	9.65	83	202549	17.81	ug/L	99
31) Tetrahydrofuran	9.20	42	49178	17.74	ug/L	95
32) 1,1,1-Trichloroethane	9.91	97	177308	17.97	ug/L	98
34) Cyclohexane	9.92	56	102404	18.27	ug/L	96
35) n-Butyl Alcohol	9.93	43	7905	159.60	ug/L	95
36) 1,1-Dichloropropene	10.08	75	131509	18.47	ug/L	94

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	153956	17.92	ug/L		98
39)	Benzene	10.36	78	296632	18.07	ug/L		93
40)	1,2-Dichloroethane	10.43	62	174702	17.47	ug/L		100
41)	tert-amyl methyl ether	10.31	73	264248	17.24	ug/L		100
42)	Trichloroethene	11.11	95	103308	13.13	ug/L		96
43)	Methylcyclohexane	11.31	83	95146	18.17	ug/L		99
44)	1,2-Dichloropropane	11.47	63	70640	17.62	ug/L		97
45)	Dibromomethane	11.65	93	70784	17.93	ug/L		97
46)	1,4-Dioxane	11.55	88	14565	345.03	ug/L		95
47)	Bromodichloromethane	11.76	83	168761	17.22	ug/L		98
48)	2-Nitropropane	12.09	41	187274	87.81	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	178146	90.07	ug/L		98
50)	1-Bromo-2-Chloroethane	12.25	63	101118	17.15	uL/L		97
51)	4-Methyl-2-pentanone	12.38	43	328138	81.99	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	155974	17.69	ug/L		97
55)	Toluene	12.72	91	337327	17.36	ug/L		99
56)	trans-1,3-Dichloropropene	13.01	75	148986	17.73	ug/L		99
57)	1,1,2-Trichloroethane	13.30	83	62592	17.30	ug/L		97
58)	Tetrachloroethene	13.44	166	109099	17.68	ug/L		97
59)	2-hexanone	13.45	43	236631	84.85	ug/L		98
60)	1,3-Dichloropropane	13.54	76	143044	17.57	ug/L		96
61)	Dibromochloromethane	13.87	129	111979	17.97	ug/L		100
62)	1,2-Dibromoethane	14.10	107	90639	18.02	ug/L		97
63)	1-Chlorohexane	14.43	91	115505	17.09	ug/L		92
64)	Chlorobenzene	14.68	112	224020	17.33	ug/L		98
65)	1,1,1,2-Tetrachloroethane	14.75	131	97467	17.10	ug/L		98
66)	Ethylbenzene	14.69	91	411556	16.54	ug/L		99
67)	m,p-Xylene	14.84	91	650473	34.21	ug/L		99
68)	o-Xylene	15.42	91	334597	16.97	ug/L		97
69)	Styrene	15.45	104	240347	17.83	ug/L		95
70)	Bromoform	15.85	173	79979	17.89	ug/L		96
72)	Isopropylbenzene	15.86	105	319385	17.45	ug/L		99
73)	Cyclohexanone	16.19	55	12353	83.58	ug/L		93
75)	Bromobenzene	16.47	156	116972	17.67	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.33	83	84699	16.74	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	33357	17.87	ug/L	#	98
78)	1,2,3-Trichloropropane	16.47	110	33963	17.47	ug/L		89
79)	n-Propylbenzene	16.40	91	435765	17.11	ug/L		97
80)	2-Chlorotoluene	16.65	91	320598	16.57	ug/L		99
81)	4-Chlorotoluene	16.79	91	299961	16.74	ug/L		94
82)	1,3,5-Trimethylbenzene	16.59	105	292120	17.40	ug/L		95
83)	sec-Butylbenzene	17.39	105	314828	16.84	ug/L		99
84)	1,3-Dichlorobenzene	17.74	146	179536	17.25	ug/L		99
85)	4-Isopropyltoluene	17.55	119	263530	17.43	ug/L		99
86)	1,4-Dichlorobenzene	17.86	146	189030	17.68	ug/L		97
87)	tert-Butylbenzene	17.39	91	58310	17.97	ug/L		99
88)	n-Butylbenzene	18.15	91	246188	16.42	ug/L		99
89)	1,2-Dichlorobenzene	18.44	146	166804	16.85	ug/L		97
90)	1,2,4-Trimethylbenzene	17.16	105	311686	17.34	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

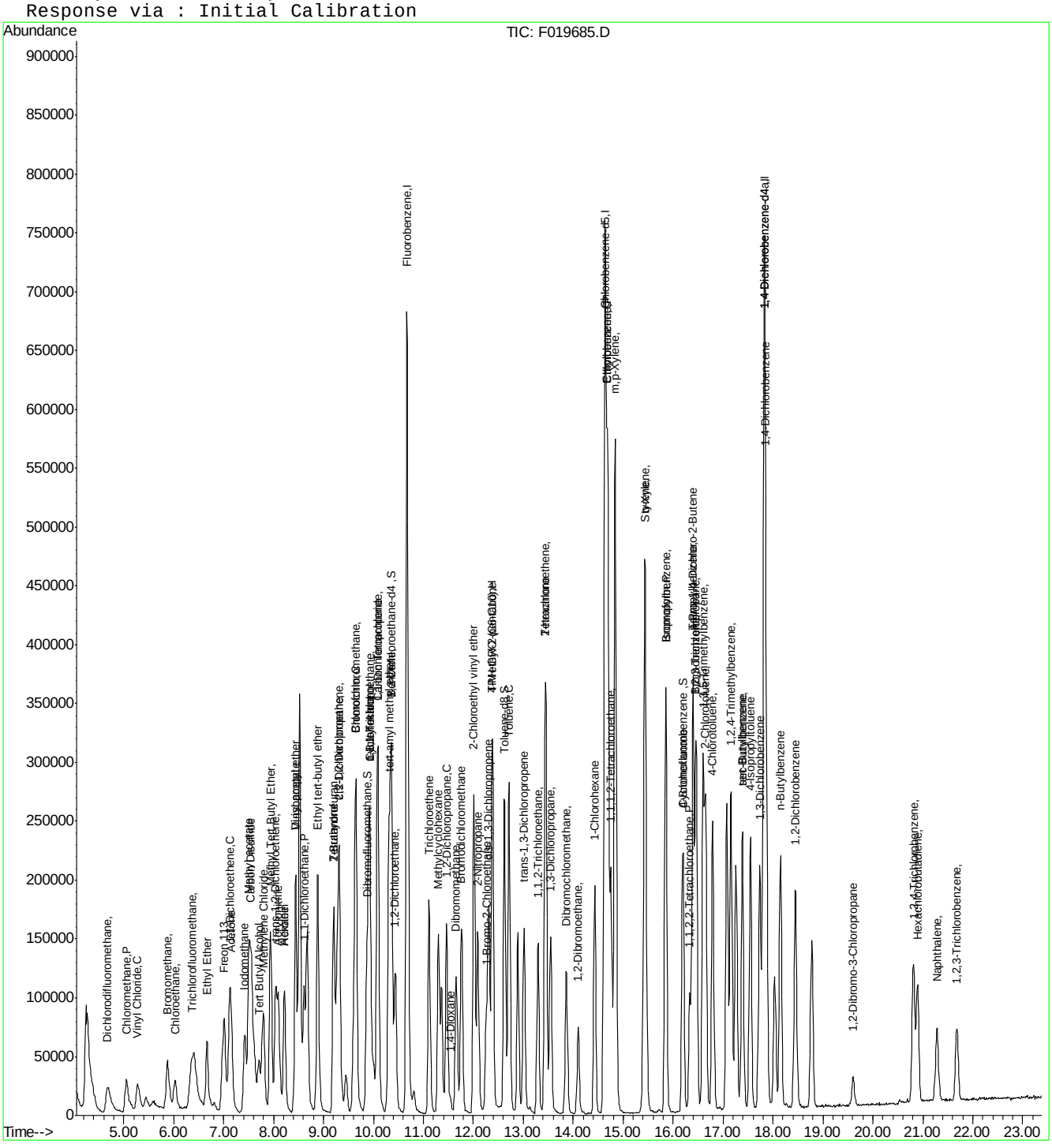
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	13.52	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	34546709m	1035.15	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019685.D VF3547.M Tue Sep 15 09:55:48 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	954577	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	701182	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	427426	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	427426	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	238951	42.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 84.44%			
38) 1,2-Dichloroethane-d4	10.34	65	335120	42.13	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.26%			
54) Toluene-d8	12.62	98	639112	38.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 76.04%#			
74) 4-Bromofluorobenzene	16.19	95	316247	39.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 78.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	266054	49.63	ug/L	100
3) Chloromethane	5.06	50	264669	55.33	ug/L	100
4) Vinyl Chloride	5.29	62	214010	53.60	ug/L	100
5) Bromomethane	5.87	94	144081	47.44	ug/L	100
6) Chloroethane	6.02	64	105128	41.24	ug/L	100
7) Trichlorofluoromethane	6.37	101	343377	41.45	ug/L	100
8) Acrolein	8.21	56	77736	187.87	ug/L	100
9) Ethyl Ether	6.67	59	140119	40.75	ug/L	100
10) 1,1-Dichloroethene	7.12	61	270698	40.47	ug/L	100
11) Freon 113	7.01	101	168400	39.16	ug/L	100
12) Acetone	7.15	43	270151	217.67	ug/L	100
13) Iodomethane	7.43	142	326886	44.08	ug/L	100
14) Methyl acetate	7.51	43	550559	200.22	ug/L	100
15) Carbon Disulfide	7.55	76	527377	40.02	ug/L	100
16) Methylene Chloride	7.79	49	234689	41.84	ug/L	100
17) Tert Butyl Alcohol	7.70	59	165114	414.56	ug/L	100
18) trans-1,2-Dichloroethene	8.05	61	259932	41.69	ug/L	100
19) Acrylonitrile	8.11	53	209357	187.55	ug/L	100
20) Methyl Tert Butyl Ether	7.94	73	589203	41.71	ug/L	100
21) Hexane	8.21	57	125799	36.52	ug/L	100
22) 1,1-Dichloroethane	8.61	63	331206	42.05	ug/L	100
23) Vinyl acetate	8.44	43	288967	207.54	ug/L	100
24) Di-isopropyl ether	8.44	45	625383	40.58	ug/L	100
25) Ethyl tert-butyl ether	8.88	59	647936	42.79	ug/L	100
26) 2,2-Dichloropropane	9.30	77	269268	41.41	ug/L	100
27) cis-1,2-Dichloroethene	9.32	96	225201	41.55	ug/L	100
28) 2-Butanone	9.21	43	1126152	211.05	ug/L	100
29) Bromochloromethane	9.64	128	117515	43.80	ug/L	100
30) Chloroform	9.65	83	450607	43.16	ug/L	100
31) Tetrahydrofuran	9.21	42	110558	47.27	ug/L	100
32) 1,1,1-Trichloroethane	9.91	97	382857	42.54	ug/L	100
34) Cyclohexane	9.93	56	207457	38.31	ug/L	100
35) n-Butyl Alcohol	9.93	43	17974	362.44	ug/L	100
36) 1,1-Dichloropropene	10.08	75	274753	40.98	ug/L	100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	328366	41.87	ug/L		100
39)	Benzene	10.36	78	627345	40.05	ug/L		100
40)	1,2-Dichloroethane	10.44	62	387366	42.62	ug/L		100
41)	tert-amyl methyl ether	10.31	73	579503	40.63	ug/L		100
42)	Trichloroethene	11.12	95	220655	41.78	ug/L		100
43)	Methylcyclohexane	11.30	83	192623	38.17	ug/L		100
44)	1,2-Dichloropropane	11.46	63	154466	40.07	ug/L		100
45)	Dibromomethane	11.66	93	157548	42.45	ug/L		100
46)	1,4-Dioxane	11.54	88	33481	865.16	ug/L		100
47)	Bromodichloromethane	11.77	83	378507	42.01	ug/L		100
48)	2-Nitropropane	12.09	41	394910	207.67	ug/L		100
49)	2-Chloroethyl vinyl ether	12.01	63	418987	211.18	ug/L		100
50)	1-Bromo-2-Chloroethane	12.26	63	224066	39.80	uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	734477	197.20	ug/L		100
52)	cis-1,3-Dichloropropene	12.31	75	350871	41.68	ug/L		100
55)	Toluene	12.71	91	733307	38.99	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	337363	41.35	ug/L		100
57)	1,1,2-Trichloroethane	13.29	83	138375	39.30	ug/L		100
58)	Tetrachloroethene	13.44	166	226077	38.24	ug/L		100
59)	2-hexanone	13.45	43	538811	199.75	ug/L		100
60)	1,3-Dichloropropane	13.55	76	310231	39.19	ug/L		100
61)	Dibromochloromethane	13.86	129	255260	42.06	ug/L		100
62)	1,2-Dibromoethane	14.10	107	198888	40.22	ug/L		100
63)	1-Chlorohexane	14.43	91	261886	39.72	ug/L		100
64)	Chlorobenzene	14.68	112	499033	39.99	ug/L		100
65)	1,1,1,2-Tetrachloroethane	14.76	131	224581	41.62	ug/L		100
66)	Ethylbenzene	14.70	91	939005	40.10	ug/L		100
67)	m,p-Xylene	14.84	91	1470428	81.60	ug/L		100
68)	o-Xylene	15.43	91	770587	41.11	ug/L		100
69)	Styrene	15.45	104	552734	41.46	ug/L		100
70)	Bromoform	15.85	173	184700	42.77	ug/L		100
72)	Isopropylbenzene	15.85	105	739251	38.20	ug/L		100
73)	Cyclohexanone	16.18	55	31173	191.85	ug/L		100
75)	Bromobenzene	16.46	156	267664	38.69	ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	203689	38.51	ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	82619	42.19	ug/L	#	100
78)	1,2,3-Trichloropropane	16.46	110	78380	38.87	ug/L		100
79)	n-Propylbenzene	16.40	91	1023147	38.57	ug/L		100
80)	2-Chlorotoluene	16.65	91	754964	38.29	ug/L		100
81)	4-Chlorotoluene	16.79	91	710555	38.58	ug/L		100
82)	1,3,5-Trimethylbenzene	16.60	105	683562	38.94	ug/L		100
83)	sec-Butylbenzene	17.39	105	743028	38.38	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	426987	39.52	ug/L		100
85)	4-Isopropyltoluene	17.55	119	606270	38.52	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	450731	40.49	ug/L		100
87)	tert-Butylbenzene	17.39	91	135012	40.48	ug/L		100
88)	n-Butylbenzene	18.15	91	617060	40.50	ug/L		100
89)	1,2-Dichlorobenzene	18.45	146	422157	41.63	ug/L		100
90)	1,2,4-Trimethylbenzene	17.16	105	735859	39.22	ug/L		100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

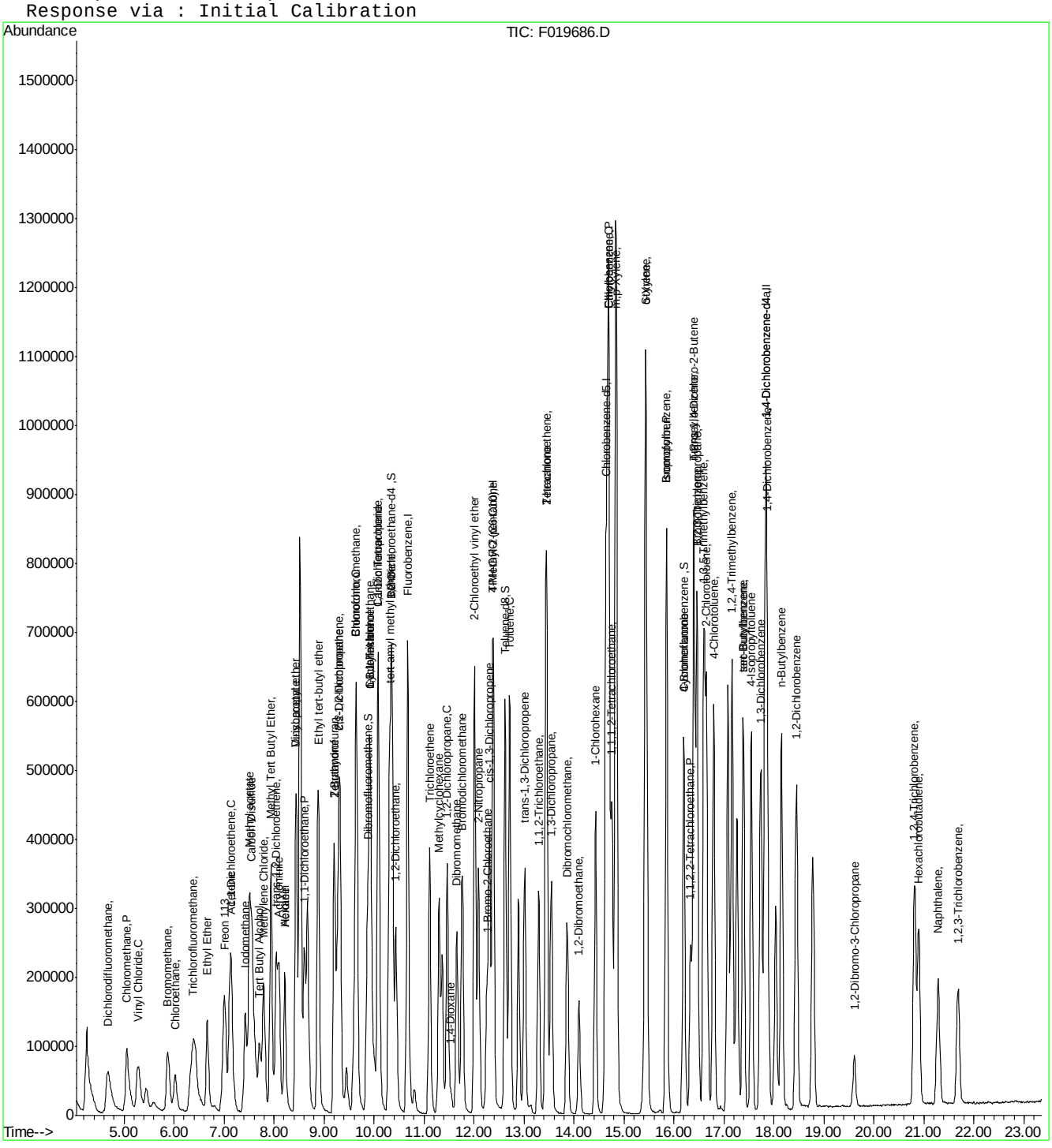
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92)	1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93)	Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94)	Naphthalene	21.28	128	367955	50.16	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	180	137998	50.22	ug/L	100
97)	TPH-GRO (C6-C10)	12.39	TIC	76500698m	1791.76	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 9:01 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1439708	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1021100	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	540849	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	540849	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.87	113	807310	92.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 185.20%#			
38) 1,2-Dichloroethane-d4	10.34	65	1063847	84.60	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 169.20%#			
54) Toluene-d8	12.62	98	2357599	95.89	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 191.78%#			
74) 4-Bromofluorobenzene	16.19	95	1035681	95.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 190.16%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	713289	84.53	ug/L	99
3) Chloromethane	5.07	50	676020	87.04	ug/L	99
4) Vinyl Chloride	5.28	62	559205	73.01	ug/L	98
5) Bromomethane	5.87	94	428867	73.74	ug/L	98
6) Chloroethane	6.02	64	358141	92.25	ug/L	99
7) Trichlorofluoromethane	6.37	101	1111860	87.27	ug/L	100
8) Acrolein	8.21	56	316751	508.45	ug/L	96
9) Ethyl Ether	6.66	59	485395	91.81	ug/L	97
10) 1,1-Dichloroethene	7.12	61	943733	91.89	ug/L	99
11) Freon 113	7.01	101	591511	93.75	ug/L	96
12) Acetone	7.15	43	916749	469.37	ug/L	93
13) Iodomethane	7.43	142	1065520	93.20	ug/L	95
14) Methyl acetate	7.51	43	2089611	452.08	ug/L	99
15) Carbon Disulfide	7.55	76	1936962	97.23	ug/L	98
16) Methylene Chloride	7.79	49	837904	81.02	ug/L	97
17) Tert Butyl Alcohol	7.71	59	567512	921.23	ug/L	63
18) trans-1,2-Dichloroethene	8.05	61	910208	95.77	ug/L	97
19) Acrylonitrile	8.10	53	891951	544.90	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	1987039	90.71	ug/L	98
21) Hexane	8.21	57	518176	99.67	ug/L	92
22) 1,1-Dichloroethane	8.61	63	1116164	92.16	ug/L	97
23) Vinyl acetate	8.44	43	997670	461.82	ug/L	98
24) Di-isopropyl ether	8.44	45	2301021	98.74	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	2225120	96.26	ug/L	99
26) 2,2-Dichloropropane	9.30	77	825455	78.15	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	765941	91.84	ug/L	98
28) 2-Butanone	9.20	43	4120207	515.98	ug/L	100
29) Bromochloromethane	9.64	128	402863	99.20	ug/L	95
30) Chloroform	9.65	83	1462582	89.73	ug/L	99
31) Tetrahydrofuran	9.21	42	346654	84.06	ug/L	99
32) 1,1,1-Trichloroethane	9.91	97	1231951	86.95	ug/L	100
34) Cyclohexane	9.93	56	848602	105.12	ug/L	91
35) n-Butyl Alcohol	9.93	43	79420	1236.15	ug/L #	85
36) 1,1-Dichloropropene	10.08	75	986569	96.04	ug/L	93

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:53 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	1071023	86.87	ug/L		98
39)	Benzene	10.36	78	2409380	102.15	ug/L		94
40)	1,2-Dichloroethane	10.44	62	1253971	87.79	ug/L		98
41)	tert-amyl methyl ether	10.31	73	2101536	96.23	ug/L		96
42)	Trichloroethene	11.12	95	785129	73.10	ug/L		97
43)	Methylcyclohexane	11.30	83	795530	105.60	ug/L		98
44)	1,2-Dichloropropane	11.46	63	599569	104.52	ug/L		88
45)	Dibromomethane	11.66	93	549422	96.98	ug/L		99
46)	1,4-Dioxane	11.55	88	131960	2102.77	ug/L		94
47)	Bromodichloromethane	11.77	83	1289830	92.39	ug/L		99
48)	2-Nitropropane	12.09	41	1247322	409.05	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	1693674	596.19	ug/L		97
50)	1-Bromo-2-Chloroethane	12.26	63	881945	105.06	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	2808613	496.74	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	1308043	103.62	ug/L		92
55)	Toluene	12.72	91	2741568	100.37	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	1201341	101.31	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	524828	103.29	ug/L		95
58)	Tetrachloroethene	13.44	166	837164	96.21	ug/L		99
59)	2-hexanone	13.46	43	2024231	518.47	ug/L		95
60)	1,3-Dichloropropane	13.55	76	1176042	102.56	ug/L		92
61)	Dibromochloromethane	13.86	129	889491	100.93	ug/L		100
62)	1,2-Dibromoethane	14.10	107	739771	103.91	ug/L		98
63)	1-Chlorohexane	14.43	91	999319	105.49	ug/L		92
64)	Chlorobenzene	14.68	112	1823936	100.40	ug/L		94
65)	1,1,1,2-Tetrachloroethane	14.76	131	756339	94.65	ug/L		97
66)	Ethylbenzene	14.70	91	3287572	94.78	ug/L		98
67)	m,p-Xylene	14.85	91	5105857	191.53	ug/L		96
68)	o-Xylene	15.43	91	2681391	97.16	ug/L		97
69)	Styrene	15.45	104	2052872	107.85	ug/L		95
70)	Bromoform	15.85	173	622075	98.47	ug/L		97
72)	Isopropylbenzene	15.86	105	2602686	108.28	ug/L		98
73)	Cyclohexanone	16.18	55	108933	567.14	ug/L		92
75)	Bromobenzene	16.46	156	900545	103.35	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	707704	107.29	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	256272	104.12	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	259666	101.72	ug/L		90
79)	n-Propylbenzene	16.40	91	3495623	104.87	ug/L		100
80)	2-Chlorotoluene	16.65	91	2485836	98.74	ug/L		98
81)	4-Chlorotoluene	16.79	91	2358816	100.97	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	2301625	104.48	ug/L		100
83)	sec-Butylbenzene	17.40	105	2537476	104.04	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	1406651	103.12	ug/L		98
85)	4-Isopropyltoluene	17.55	119	2054969	103.55	ug/L		99
86)	1,4-Dichlorobenzene	17.87	146	1438104	102.21	ug/L		99
87)	tert-Butylbenzene	17.39	91	430884	103.50	ug/L		96
88)	n-Butylbenzene	18.15	91	1930950	99.13	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	1289612	99.82	ug/L		97
90)	1,2,4-Trimethylbenzene	17.17	105	2464214	104.50	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

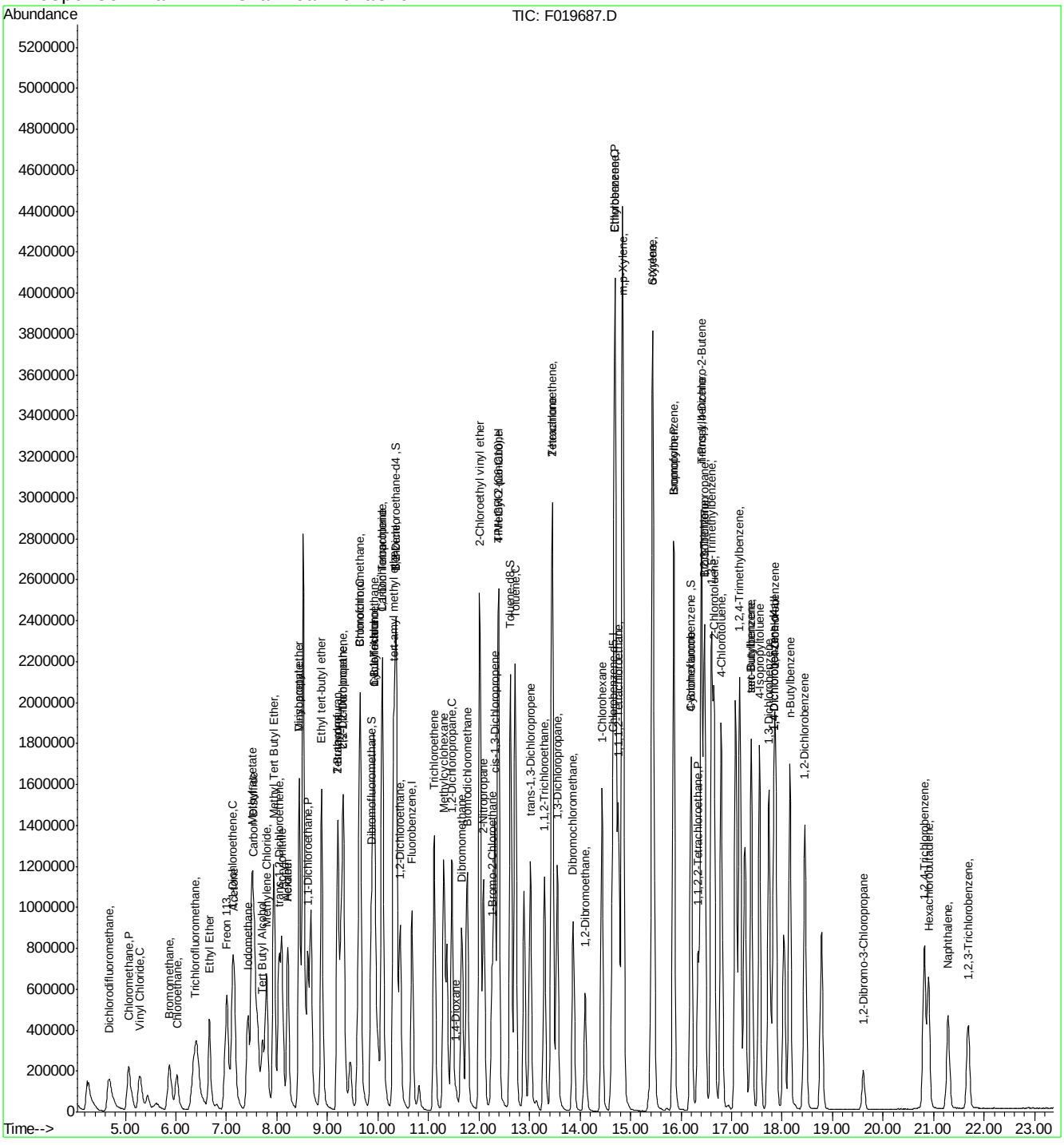
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	343273	76.28	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	262314999m	5167.96	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

F019688.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1476971	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1025997	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	548707	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	548707	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	1659796	187.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery	=	375.80%#	
38) 1,2-Dichloroethane-d4	10.34	65	2146010	170.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery	=	341.46%#	
54) Toluene-d8	12.62	98	4995482	203.60	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery	=	407.20%#	
74) 4-Bromofluorobenzene	16.19	95	2098803	191.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery	=	382.98%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	1492242	176.93	ug/L	96
3) Chloromethane	5.07	50	1457668	186.98	ug/L	98
4) Vinyl Chloride	5.28	62	1220567	204.89	ug/L	96
5) Bromomethane	5.84	94	915186	160.41	ug/L	98
6) Chloroethane	6.01	64	793056	214.12	ug/L	99
7) Trichlorofluoromethane	6.35	101	2434945	211.03	ug/L	100
8) Acrolein	8.21	56	636030	992.40	ug/L	96
9) Ethyl Ether	6.66	59	1028447	192.23	ug/L	99
10) 1,1-Dichloroethene	7.12	61	2017355	194.10	ug/L	98
11) Freon 113	7.01	101	1303615	214.21	ug/L	94
12) Acetone	7.16	43	1840933	979.10	ug/L	92
13) Iodomethane	7.43	142	2147119	185.16	ug/L	94
14) Methyl acetate	7.51	43	4294360	920.34	ug/L	98
15) Carbon Disulfide	7.54	76	4135455	203.28	ug/L	97
16) Methylene Chloride	7.80	49	1712823	166.71	ug/L	99
17) Tert Butyl Alcohol	7.73	59	1143348	1833.21	ug/L	77
18) trans-1,2-Dichloroethene	8.05	61	1888547	195.08	ug/L	98
19) Acrylonitrile	8.11	53	1863395	1093.28	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	4050248	183.06	ug/L	97
21) Hexane	8.21	57	1065780	199.93	ug/L	89
22) 1,1-Dichloroethane	8.61	63	2348984	191.56	ug/L	96
23) Vinyl acetate	8.45	43	1952353	892.30	ug/L	97
24) Di-isopropyl ether	8.44	45	4754627	199.29	ug/L	94
25) Ethyl tert-butyl ether	8.88	59	4524258	191.99	ug/L	98
26) 2,2-Dichloropropane	9.30	77	1556808	149.10	ug/L	96
27) cis-1,2-Dichloroethene	9.33	96	1613625	191.19	ug/L	93
28) 2-Butanone	9.21	43	8380228	1017.58	ug/L	100
29) Bromochloromethane	9.64	128	819400	196.95	ug/L	96
30) Chloroform	9.65	83	2893627	176.06	ug/L	99
31) Tetrahydrofuran	9.21	42	701728	193.50	ug/L	97
32) 1,1,1-Trichloroethane	9.91	97	2429943	170.89	ug/L	99
34) Cyclohexane	9.94	56	1706287	204.29	ug/L	91
35) n-Butyl Alcohol	9.93	43	152172	1904.44	ug/L #	84
36) 1,1-Dichloropropene	10.08	75	1960437	187.26	ug/L	92

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:56 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	2141524	173.11	ug/L		98
39)	Benzene	10.36	78	4786563	197.10	ug/L		95
40)	1,2-Dichloroethane	10.44	62	2460607	171.40	ug/L		97
41)	tert-amyl methyl ether	10.31	73	4180960	187.79	ug/L		97
42)	Trichloroethene	11.12	95	1598004	151.83	ug/L		98
43)	Methylcyclohexane	11.30	83	1569193	201.16	ug/L		99
44)	1,2-Dichloropropane	11.47	63	1234605	208.23	ug/L		86
45)	Dibromomethane	11.66	93	1100434	190.29	ug/L		98
46)	1,4-Dioxane	11.55	88	269055	3961.68	ug/L		92
47)	Bromodichloromethane	11.77	83	2550542	180.37	ug/L		100
48)	2-Nitropropane	12.10	41	2395577	789.74	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	3441389	1144.15	ug/L		98
50)	1-Bromo-2-Chloroethane	12.26	63	1773914	204.27	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	5575494	962.26	ug/L		96
52)	cis-1,3-Dichloropropene	12.32	75	2601305	199.67	ug/L		90
55)	Toluene	12.72	91	5568197	202.75	ug/L		99
56)	trans-1,3-Dichloropropene	13.02	75	2382181	199.49	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	1051897	204.91	ug/L		93
58)	Tetrachloroethene	13.44	166	1684894	193.94	ug/L		99
59)	2-hexanone	13.46	43	3946765	999.92	ug/L		94
60)	1,3-Dichloropropane	13.55	76	2330148	201.38	ug/L		92
61)	Dibromochloromethane	13.87	129	1789924	201.82	ug/L		99
62)	1,2-Dibromoethane	14.10	107	1490475	207.01	ug/L		98
63)	1-Chlorohexane	14.43	91	1980649	206.19	ug/L		93
64)	Chlorobenzene	14.69	112	3643366	199.46	ug/L		95
65)	1,1,1,2-Tetrachloroethane	14.76	131	1505471	189.18	ug/L		95
66)	Ethylbenzene	14.70	91	6513282	188.52	ug/L		99
67)	m,p-Xylene	14.85	91	9998480	375.93	ug/L		96
68)	o-Xylene	15.43	91	5281271	191.35	ug/L		97
69)	Styrene	15.46	104	4058969	209.48	ug/L		91
70)	Bromoform	15.85	173	1248450	197.18	ug/L		97
72)	Isopropylbenzene	15.86	105	5112837	206.82	ug/L		98
73)	Cyclohexanone	16.19	55	209175	954.19	ug/L		95
75)	Bromobenzene	16.47	156	1767695	198.85	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.34	83	1378777	203.56	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	502682	199.94	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	507411	195.37	ug/L		92
79)	n-Propylbenzene	16.40	91	6771023	198.62	ug/L		100
80)	2-Chlorotoluene	16.66	91	4850993	190.33	ug/L		98
81)	4-Chlorotoluene	16.79	91	4613606	194.34	ug/L		96
82)	1,3,5-Trimethylbenzene	16.61	105	4528891	201.13	ug/L		98
83)	sec-Butylbenzene	17.39	105	4898318	196.64	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	2726747	196.01	ug/L		98
85)	4-Isopropyltoluene	17.55	119	3982704	196.64	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	2812589	196.31	ug/L		99
87)	tert-Butylbenzene	17.39	91	832680	191.43	ug/L		91
88)	n-Butylbenzene	18.15	91	3703796	187.69	ug/L		98
89)	1,2-Dichlorobenzene	18.46	146	2500221	190.81	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	4794167	198.90	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:57 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

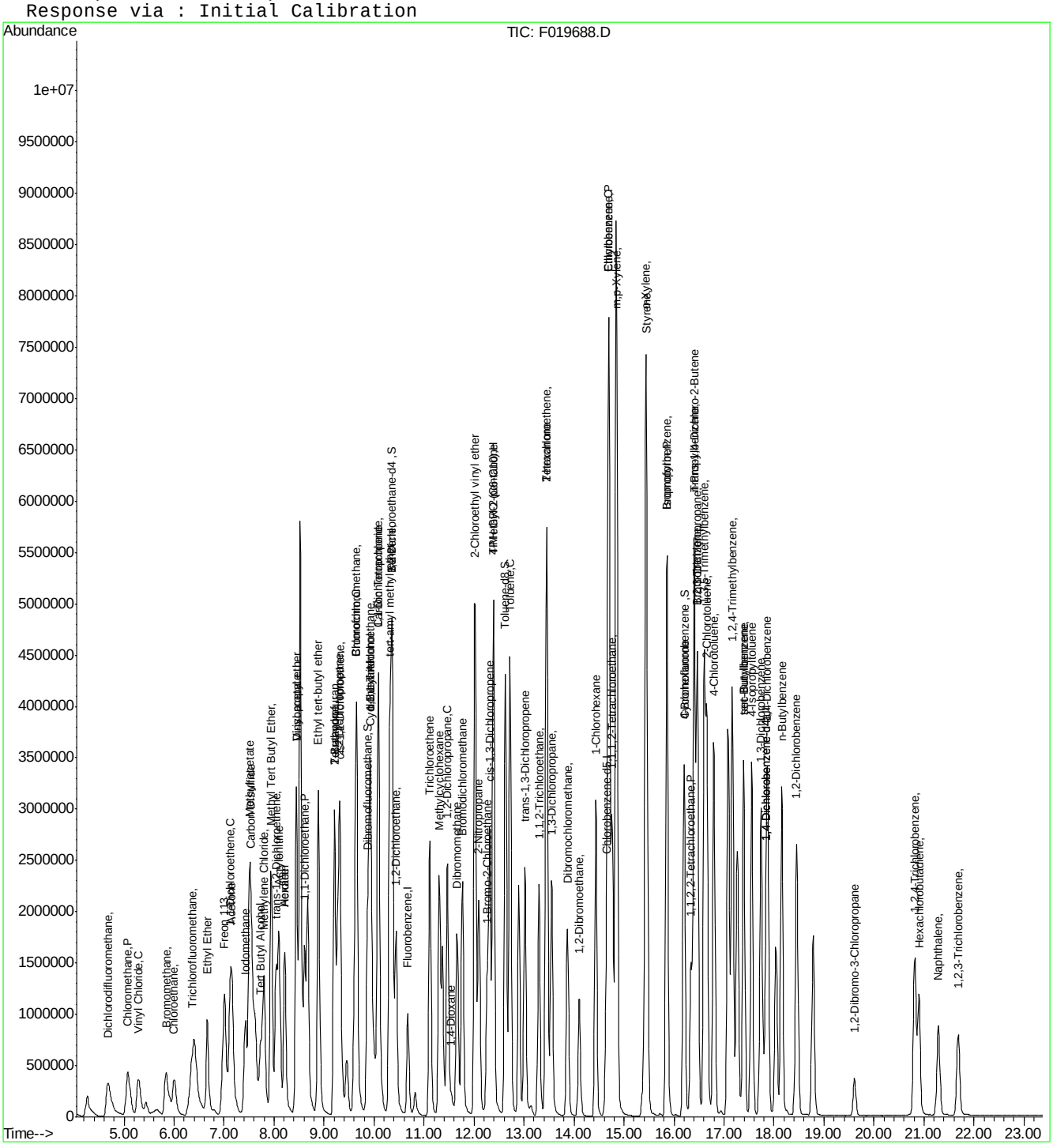
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92)	1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93)	Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94)	Naphthalene	21.28	128	1803651	172.78	ug/L	100
95)	1,2,3-Trichlorobenzene	21.68	180	669734	152.72	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	547322666m	8238.03	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1373790	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	980668	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	560245	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	560245	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	359851	44.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.36%			
38) 1,2-Dichloroethane-d4	10.34	65	473223	41.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.68%			
54) Toluene-d8	12.62	98	1106653	47.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.14%			
74) 4-Bromofluorobenzene	16.20	95	486748	45.98	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.96%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	192937	25.01	ug/L	93
3) Chloromethane	5.06	50	248207	35.60	ug/L	96
4) Vinyl Chloride	5.28	62	210341	35.92	ug/L	96
5) Bromomethane	5.88	94	169958	38.53	ug/L	98
6) Chloroethane	6.03	64	127170	34.67	ug/L	99
7) Trichlorofluoromethane	6.37	101	375252	31.47	ug/L	99
8) Acrolein	8.21	56	127971	214.90	ug/L	99
9) Ethyl Ether	6.67	59	167179	33.78	ug/L	99
10) 1,1-Dichloroethene	7.12	61	381532	39.63	ug/L	98
11) Freon 113	7.01	101	246918	39.90	ug/L	96
12) Acetone	7.15	43	353713	197.04	ug/L	90
13) Iodomethane	7.43	142	458179	42.93	ug/L	94
14) Methyl acetate	7.51	43	785474	198.50	ug/L	97
15) Carbon Disulfide	7.55	76	831950	43.86	ug/L	98
16) Methylene Chloride	7.79	49	320141	39.63	ug/L	99
17) Tert Butyl Alcohol	7.71	59	210067	366.48	ug/L	92
18) trans-1,2-Dichloroethene	8.05	61	369280	41.15	ug/L	98
19) Acrylonitrile	8.11	53	344422	214.40	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	773244	38.03	ug/L	97
21) Hexane	8.22	57	215854	43.54	ug/L	88
22) 1,1-Dichloroethane	8.61	63	437518	38.59	ug/L	96
23) Vinyl acetate	8.44	43	374583	186.93	ug/L	97
24) Di-isopropyl ether	8.44	45	885451	39.92	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	830768	38.12	ug/L	98
26) 2,2-Dichloropropane	9.30	77	321175	34.32	ug/L	97
27) cis-1,2-Dichloroethene	9.33	96	295716	37.91	ug/L	95
28) 2-Butanone	9.21	43	1536273	200.05	ug/L	100
29) Bromochloromethane	9.64	128	153249	39.69	ug/L	88
30) Chloroform	9.65	83	551988	36.74	ug/L	99
31) Tetrahydrofuran	9.21	42	133158	39.30	ug/L	99
32) 1,1,1-Trichloroethane	9.92	97	460991	35.60	ug/L	97
34) Cyclohexane	9.93	56	337871	43.36	ug/L	92
35) n-Butyl Alcohol	9.94	43	27949	391.56	ug/L #	77
36) 1,1-Dichloropropene	10.08	75	368194	38.16	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Carbon Tetrachloride	10.08	117	398571	35.32	ug/L		99
39) Benzene	10.37	78	913929	40.54	ug/L		90
40) 1,2-Dichloroethane	10.44	62	465945	35.62	ug/L		98
41) tert-amyl methyl ether	10.31	73	768253	37.42	ug/L		97
42) Trichloroethene	11.12	95	298728	39.23	ug/L		98
43) Methylcyclohexane	11.30	83	305984	42.14	ug/L		98
44) 1,2-Dichloropropane	11.47	63	228436	41.18	ug/L		89
45) Dibromomethane	11.66	93	203805	38.15	ug/L		98
46) 1,4-Dioxane	11.54	88	49048	880.66	ug/L		91
47) Bromodichloromethane	11.77	83	456093	35.17	ug/L		100
48) 2-Nitropropane	12.09	41	501123	183.11	ug/L		97
49) 2-Chloroethyl vinyl ether	12.01	63	592457	207.49	ug/L		99
50) 1-Bromo-2-Chloroethane	12.26	63	334615	41.30	uL/L		100
51) 4-Methyl-2-pentanone	12.39	43	1071125	199.82	ug/L		97
52) cis-1,3-Dichloropropene	12.31	75	479641	39.59	ug/L		92
55) Toluene	12.72	91	1057431	40.20	ug/L		98
56) trans-1,3-Dichloropropene	13.02	75	464985	40.75	ug/L		95
57) 1,1,2-Trichloroethane	13.30	83	192826	39.16	ug/L		94
58) Tetrachloroethene	13.44	166	311594	37.69	ug/L		99
59) 2-hexanone	13.46	43	736532	195.23	ug/L		95
60) 1,3-Dichloropropane	13.55	76	424250	38.32	ug/L		93
61) Dibromochloromethane	13.86	129	320773	37.79	ug/L		99
62) 1,2-Dibromoethane	14.10	107	275632	39.85	ug/L		99
63) 1-Chlorohexane	14.43	91	375033	40.67	ug/L		95
64) Chlorobenzene	14.69	112	697906	39.99	ug/L		96
65) 1,1,1,2-Tetrachloroethane	14.76	131	281931	37.35	ug/L		94
66) Ethylbenzene	14.70	91	1241852	37.92	ug/L		99
67) m,p-Xylene	14.85	91	1951024	77.41	ug/L		97
68) o-Xylene	15.43	91	1056520	40.30	ug/L		96
69) Styrene	15.45	104	761871	40.86	ug/L		96
70) Bromoform	15.85	173	232880	38.56	ug/L		99
72) Isopropylbenzene	15.86	105	1068498	42.13	ug/L		97
73) Cyclohexanone	16.19	55	75906	353.97	ug/L	#	81
75) Bromobenzene	16.47	156	358461	39.53	ug/L		100
76) 1,1,2,2-Tetrachloroethane	16.33	83	276180	39.83	ug/L		100
77) Trans-1,4-Dichloro-2-Buten	16.40	53	99652	38.82	ug/L	#	95
78) 1,2,3-Trichloropropane	16.46	110	92253	34.90	ug/L		93
79) n-Propylbenzene	16.40	91	1391425	40.01	ug/L		99
80) 2-Chlorotoluene	16.66	91	994862	38.50	ug/L		97
81) 4-Chlorotoluene	16.80	91	939398	38.91	ug/L		96
82) 1,3,5-Trimethylbenzene	16.60	105	923721	40.15	ug/L		100
83) sec-Butylbenzene	17.40	105	1021073	40.24	ug/L		99
84) 1,3-Dichlorobenzene	17.74	146	561076	39.61	ug/L		98
85) 4-Isopropyltoluene	17.55	119	810567	39.29	ug/L		100
86) 1,4-Dichlorobenzene	17.87	146	578151	39.63	ug/L		98
87) tert-Butylbenzene	17.39	91	173634	39.70	ug/L		92
88) n-Butylbenzene	18.15	91	749593	37.53	ug/L		99
89) 1,2-Dichlorobenzene	18.46	146	516399	38.85	ug/L		96
90) 1,2,4-Trimethylbenzene	17.17	105	957040	38.92	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

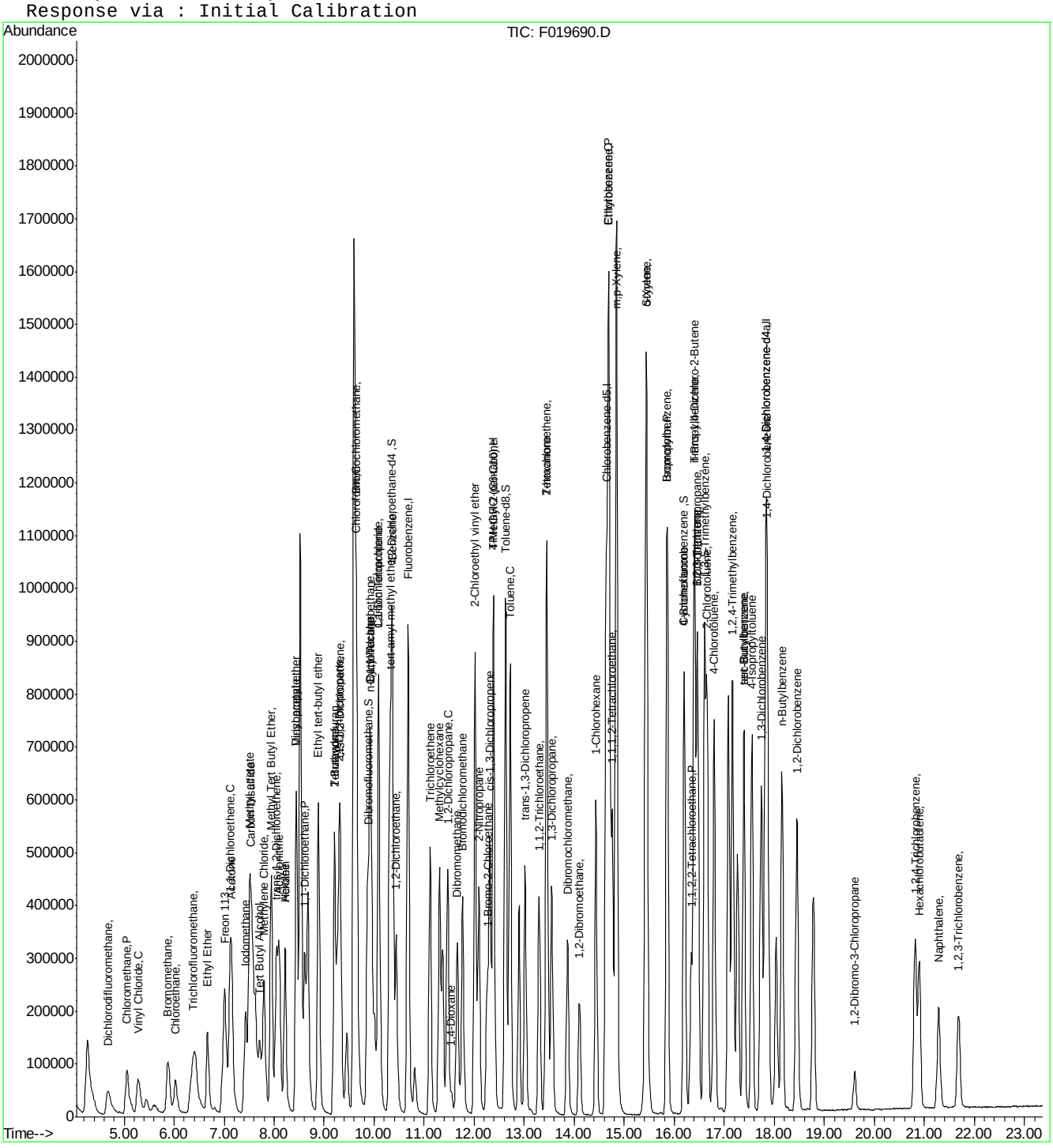
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92) 1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93) Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94) Naphthalene	21.29	128	388968	40.05	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	150896	41.43	ug/L	99
97) TPH-GRO (C6-C10)	12.39	TIC	106578563m	1901.22	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1373790	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	980668	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	560245	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	560245	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	359851	44.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.36%			
38) 1,2-Dichloroethane-d4	10.34	65	473223	41.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.68%			
54) Toluene-d8	12.62	98	1106653	47.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.14%			
74) 4-Bromofluorobenzene	16.20	95	486748	45.98	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	192937	25.01	ug/L	93
3) Chloromethane	5.06	50	248207	35.60	ug/L	96
4) Vinyl Chloride	5.28	62	210341	35.92	ug/L	96
5) Bromomethane	5.88	94	169958	38.53	ug/L	98
6) Chloroethane	6.03	64	127170	34.67	ug/L	99
7) Trichlorofluoromethane	6.37	101	375252	31.47	ug/L	99
8) Acrolein	8.21	56	127971	214.90	ug/L	99
9) Ethyl Ether	6.67	59	167179	33.78	ug/L	99
10) 1,1-Dichloroethene	7.12	61	381532	39.63	ug/L	98
11) Freon 113	7.01	101	246918	39.90	ug/L	96
12) Acetone	7.15	43	353713	197.04	ug/L	90
13) Iodomethane	7.43	142	458179	42.93	ug/L	94
14) Methyl acetate	7.51	43	785474	198.50	ug/L	97
15) Carbon Disulfide	7.55	76	831950	43.86	ug/L	98
16) Methylene Chloride	7.79	49	320141	39.63	ug/L	99
17) Tert Butyl Alcohol	7.71	59	210067	366.48	ug/L	92
18) trans-1,2-Dichloroethene	8.05	61	369280	41.15	ug/L	98
19) Acrylonitrile	8.11	53	344422	214.40	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	773244	38.03	ug/L	97
21) Hexane	8.22	57	215854	43.54	ug/L	88
22) 1,1-Dichloroethane	8.61	63	437518	38.59	ug/L	96
23) Vinyl acetate	8.44	43	374583	186.93	ug/L	97
24) Di-isopropyl ether	8.44	45	885451	39.92	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	830768	38.12	ug/L	98
26) 2,2-Dichloropropane	9.30	77	321175	34.32	ug/L	97
27) cis-1,2-Dichloroethene	9.33	96	295716	37.91	ug/L	95
28) 2-Butanone	9.21	43	1536273	200.05	ug/L	100
29) Bromochloromethane	9.64	128	153249	39.69	ug/L	88
30) Chloroform	9.65	83	551988	36.74	ug/L	99
31) Tetrahydrofuran	9.21	42	133158	39.30	ug/L	99
32) 1,1,1-Trichloroethane	9.92	97	460991	35.60	ug/L	97
34) Cyclohexane	9.93	56	337871	43.36	ug/L	92
35) n-Butyl Alcohol	9.94	43	27949	391.56	ug/L #	77
36) 1,1-Dichloropropene	10.08	75	368194	38.16	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	398571	35.32	ug/L		99
39)	Benzene	10.37	78	913929	40.54	ug/L		90
40)	1,2-Dichloroethane	10.44	62	465945	35.62	ug/L		98
41)	tert-amyl methyl ether	10.31	73	768253	37.42	ug/L		97
42)	Trichloroethene	11.12	95	298728	39.23	ug/L		98
43)	Methylcyclohexane	11.30	83	305984	42.14	ug/L		98
44)	1,2-Dichloropropane	11.47	63	228436	41.18	ug/L		89
45)	Dibromomethane	11.66	93	203805	38.15	ug/L		98
46)	1,4-Dioxane	11.54	88	49048	880.66	ug/L		91
47)	Bromodichloromethane	11.77	83	456093	35.17	ug/L		100
48)	2-Nitropropane	12.09	41	501123	183.11	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	592457	207.49	ug/L		99
50)	1-Bromo-2-Chloroethane	12.26	63	334615	41.30	uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	1071125	199.82	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	479641	39.59	ug/L		92
55)	Toluene	12.72	91	1057431	40.20	ug/L		98
56)	trans-1,3-Dichloropropene	13.02	75	464985	40.75	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	192826	39.16	ug/L		94
58)	Tetrachloroethene	13.44	166	311594	37.69	ug/L		99
59)	2-hexanone	13.46	43	736532	195.23	ug/L		95
60)	1,3-Dichloropropane	13.55	76	424250	38.32	ug/L		93
61)	Dibromochloromethane	13.86	129	320773	37.79	ug/L		99
62)	1,2-Dibromoethane	14.10	107	275632	39.85	ug/L		99
63)	1-Chlorohexane	14.43	91	375033	40.67	ug/L		95
64)	Chlorobenzene	14.69	112	697906	39.99	ug/L		96
65)	1,1,1,2-Tetrachloroethane	14.76	131	281931	37.35	ug/L		94
66)	Ethylbenzene	14.70	91	1241852	37.92	ug/L		99
67)	m,p-Xylene	14.85	91	1951024	77.41	ug/L		97
68)	o-Xylene	15.43	91	1056520	40.30	ug/L		96
69)	Styrene	15.45	104	761871	40.86	ug/L		96
70)	Bromoform	15.85	173	232880	38.56	ug/L		99
72)	Isopropylbenzene	15.86	105	1068498	42.13	ug/L		97
73)	Cyclohexanone	16.19	55	75906	353.97	ug/L	#	81
75)	Bromobenzene	16.47	156	358461	39.53	ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	276180	39.83	ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	99652	38.82	ug/L	#	95
78)	1,2,3-Trichloropropane	16.46	110	92253	34.90	ug/L		93
79)	n-Propylbenzene	16.40	91	1391425	40.01	ug/L		99
80)	2-Chlorotoluene	16.66	91	994862	38.50	ug/L		97
81)	4-Chlorotoluene	16.80	91	939398	38.91	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	923721	40.15	ug/L		100
83)	sec-Butylbenzene	17.40	105	1021073	40.24	ug/L		99
84)	1,3-Dichlorobenzene	17.74	146	561076	39.61	ug/L		98
85)	4-Isopropyltoluene	17.55	119	810567	39.29	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	578151	39.63	ug/L		98
87)	tert-Butylbenzene	17.39	91	173634	39.70	ug/L		92
88)	n-Butylbenzene	18.15	91	749593	37.53	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	516399	38.85	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	957040	38.92	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92)	1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93)	Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94)	Naphthalene	21.29	128	388968	40.05	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	180	150896	41.43	ug/L	99
97)	TPH-GRO (C6-C10)	12.39	TIC	106578563m	1901.22	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D          Vial: 10
Acq On    : 14 Sep 2009   4:31 pm                   Operator: AnjanaP
Sample    : icv3547-40                              Inst    : GC/MS F
Misc      : ms6979,vf3548,5,,,5,,water              Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21 2009            Quant Results File: VF3547.RES

Method         : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title          : SW846 8260B and EPA 624
Last Update    : Tue Sep 15 08:59:11 2009
Response via   : Initial Calibration
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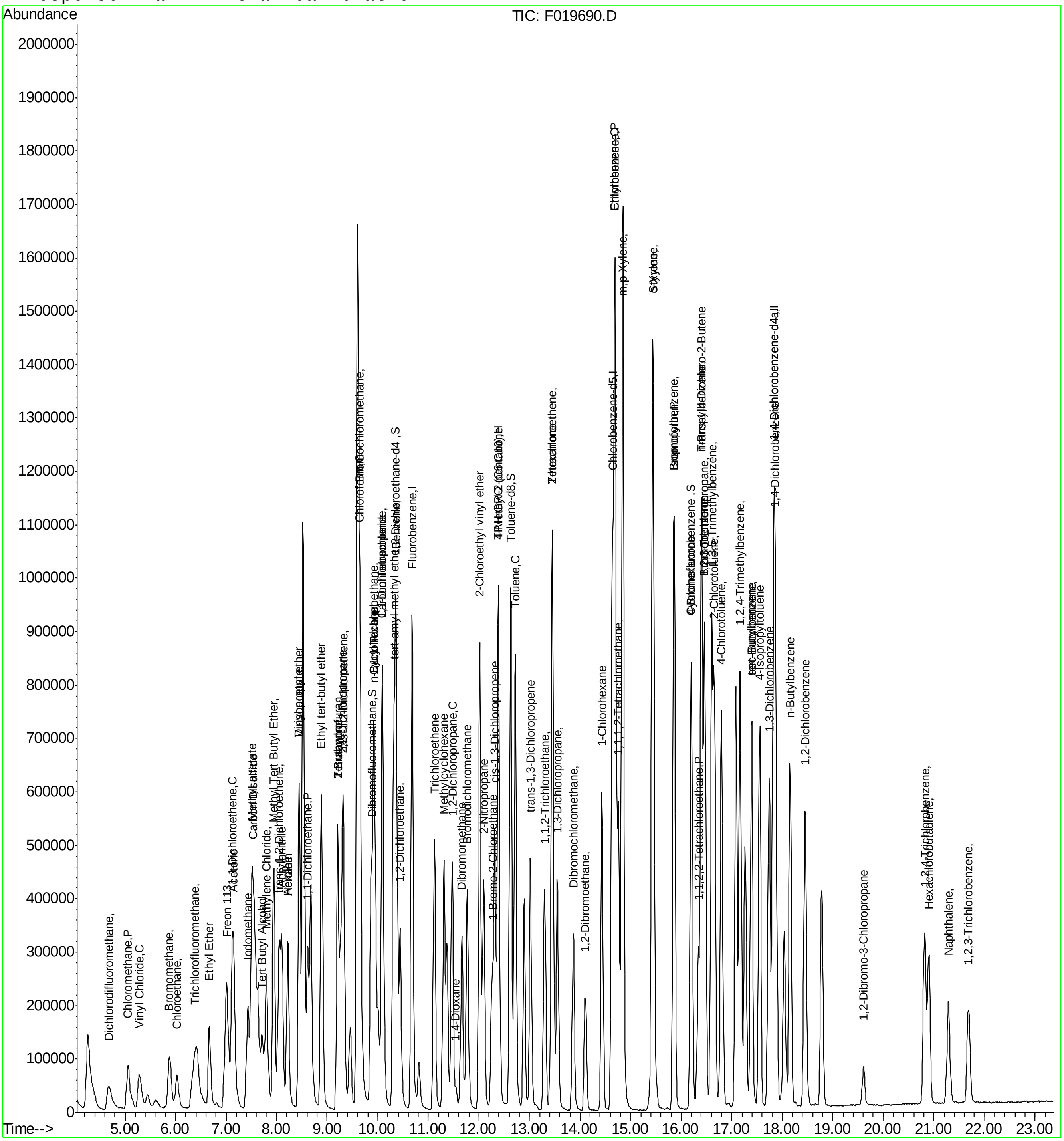

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/14/09 16:31

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020700.D Vial: 2
Acq On : 13 Oct 2009 9:31 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:28:50 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	989173	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	744552	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.78	152	420199	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.78	152	420199	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.81	113	119856	20.44	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 40.88%#			
45) 1,2-Dichloroethane-d4	10.29	65	157281	19.93	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 39.86%#			
62) Toluene-d8	12.57	98	324799	19.33	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 38.66%#			
83) 4-Bromofluorobenzene	16.14	95	147670	19.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 38.00%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.65	85	95136	17.13	ug/L	98
3) Chloromethane	5.00	50	76041	14.39	ug/L	98
4) Vinyl Chloride	5.22	62	74163	17.10	ug/L	98
5) Bromomethane	5.81	94	81703	25.07	ug/L	95
6) Chloroethane	5.97	64	55569	21.04	ug/L	98
7) Trichlorofluoromethane	6.32	101	156914	18.28	ug/L	93
8) Acrolein	8.16	56	43740	102.01	ug/L	97
9) Ethyl Ether	6.61	59	76121	21.36	ug/L	95
10) 1,1-Dichloroethene	7.06	61	168755	24.35	ug/L	97
11) Freon 113	6.95	101	107716	24.17	ug/L	97
12) Acetone	7.10	43	155492	116.04	ug/L	94
13) Iodomethane	7.37	142	198596	25.85	ug/L	96
14) Methyl acetate	7.46	43	325853	115.27	ug/L	96
15) Allyl Chloride	7.51	41	127344m	24.11	uL/L	
16) Carbon Disulfide	7.51	76	322903	23.64	ug/L	90
17) Acetonitrile	7.51	41	59988m	64.76	uL/L	
18) Methylene Chloride	7.73	49	141066	23.99	ug/L	98
19) Tert Butyl Alcohol	7.65	59	95795	232.10	ug/L	98
20) trans-1,2-Dichloroethene	7.99	61	153766	23.80	ug/L	95
21) Acrylonitrile	8.05	53	122235	105.68	ug/L	95
22) Methyl Tert Butyl Ether	7.89	73	336482	22.99	ug/L	98
23) Hexane	8.16	57	74048	20.74	ug/L	93
24) 1,1-Dichloroethane	8.56	63	184282	22.58	ug/L	96
25) Vinyl acetate	8.47	43	1166034	113.79	ug/L	99
26) Di-isopropyl ether	8.39	45	341637	21.39	ug/L	99
27) Chloroprene	8.63	53	181333	23.96	uL/L	98
28) Ethyl tert-butyl ether	8.83	59	365695	23.30	ug/L	96
29) 2,2-Dichloropropane	9.25	77	136828	20.31	ug/L	94
30) cis-1,2-Dichloroethene	9.27	96	122858	21.87	ug/L	94
31) Ethyl Acetate	9.16	43	651400	117.81	uL/L	97
32) 2-Butanone	9.16	43	651400	117.81	ug/L	100
33) Propionitrile	9.40	54	58449	138.18	uL/L	97
34) Methacrylonitrile	9.55	41	85362	22.98	uL/L	92
35) Bromochloromethane	9.59	128	67166	24.16	ug/L	91

(#) = qualifier out of range (m) = manual integration
F020700.D VF3547AP9G.M Wed Oct 14 13:32:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020700.D Vial: 2
Acq On : 13 Oct 2009 9:31 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:28:50 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.60	83	242562	22.42	ug/L		99
37)	Tetrahydrofuran	9.16	42	62074	24.90	ug/L		95
38)	1,1,1-Trichloroethane	9.86	97	201341	21.59	ug/L		99
40)	Cyclohexane	9.88	56	123516	22.01	ug/L		96
41)	Isobutyl Alcohol	9.97	43	30552	455.35	uL/L		79
42)	n-Butyl Alcohol	10.76	56	18893	477.81	ug/L		82
43)	1,1-Dichloropropene	10.03	75	157726	22.70	ug/L		97
44)	Carbon Tetrachloride	10.03	117	184273	22.68	ug/L		97
46)	Benzene	10.31	78	379535	23.38	ug/L		92
47)	1,2-Dichloroethane	10.39	62	205609	21.83	ug/L		99
48)	tert-amyl methyl ether	10.26	73	351636	23.79	ug/L		98
49)	Trichloroethene	11.07	95	123296	22.00	ug/L		98
50)	Methylcyclohexane	11.25	83	109458	20.93	ug/L		95
51)	Methyl Methacrylate	11.31	41	117373	27.07	uL/L		96
52)	1,2-Dichloropropane	11.41	63	88646	22.19	ug/L		95
53)	Dibromomethane	11.61	93	88938	23.12	ug/L		97
54)	1,4-Dioxane	11.49	88	20287	505.89	ug/L		91
55)	Bromodichloromethane	11.72	83	196940	21.09	ug/L		98
56)	2-Nitropropane	12.04	41	222916	113.13	ug/L		97
57)	2-Chloroethyl vinyl ether	11.96	63	272666	132.63	ug/L		98
58)	1-Bromo-2-Chloroethane	12.21	63	94978	16.28	uL/L		98
59)	4-Methyl-2-pentanone	12.34	43	430346	111.50	ug/L		99
60)	cis-1,3-Dichloropropene	12.26	75	195521	22.41	ug/L		96
63)	Toluene	12.66	91	421598	21.11	ug/L		99
64)	Ethyl Methacrylate	12.85	69	165739	26.03	uL/:		97
65)	trans-1,3-Dichloropropene	12.97	75	185082	21.37	ug/L		97
66)	1,1,2-Trichloroethane	13.24	83	79797	21.35	ug/L		95
67)	Tetrachloroethene	13.39	166	157446	25.08	ug/L		98
68)	2-hexanone	13.40	43	304552	106.33	ug/L		97
69)	1,3-Dichloropropane	13.50	76	175210	20.85	ug/L		94
70)	Dibromochloromethane	13.81	129	135501	21.03	ug/L		100
71)	1,2-Dibromoethane	14.05	107	114307	21.77	ug/L		95
72)	1-Chlorohexane	14.38	91	136456	19.49	ug/L		92
73)	Chlorobenzene	14.63	112	277898	20.97	ug/L		94
74)	1,1,1,2-Tetrachloroethane	14.71	131	121027	21.12	ug/L		99
75)	Ethylbenzene	14.64	91	502211	20.20	ug/L		99
76)	m,p-Xylene	14.79	91	793344	41.46	ug/L		98
77)	o-Xylene	15.38	91	410573	20.63	ug/L		97
78)	Styrene	15.40	104	303881	21.47	ug/L		97
79)	Bromoform	15.80	173	97957	21.36	ug/L		97
81)	Isopropylbenzene	15.81	105	367882	19.34	ug/L		99
82)	Cyclohexanone	16.14	55	29581	185.28	ug/L	#	73
84)	Bromobenzene	16.41	156	142591	20.96	ug/L		93
85)	1,1,2,2-Tetrachloroethane	16.28	83	101607	19.54	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.36	53	40086	20.82	ug/L	#	98
87)	1,2,3-Trichloropropane	16.41	110	41294	20.83	ug/L		87
88)	n-Propylbenzene	16.35	91	498242	19.10	ug/L		100
89)	2-Chlorotoluene	16.60	91	379764	19.59	ug/L		99
90)	4-Chlorotoluene	16.75	91	352896	19.49	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020700.D Vial: 2
Acq On : 13 Oct 2009 9:31 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7103,vf3599,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:28:50 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.55	105	331390	19.20	ug/L	99
92)	Pentachloroethane	17.21	167	108670	24.77	uL/L	95
93)	sec-Butylbenzene	17.34	105	347863	18.28	ug/L	100
94)	1,3-Dichlorobenzene	17.68	146	213100	20.06	ug/L	97
95)	4-Isopropyltoluene	17.50	119	283926	18.35	ug/L	96
96)	1,4-Dichlorobenzene	17.81	146	225656	20.62	ug/L	97
97)	tert-Butylbenzene	17.34	91	60331	17.85	ug/L	90
98)	n-Butylbenzene	18.10	91	258929	17.29	ug/L	99
99)	1,2-Dichlorobenzene	18.40	146	194569	19.52	ug/L	95
100)	1,2,4-Trimethylbenzene	17.11	105	344700	18.69	ug/L	98
101)	Hexachloroethane	18.73	119	73632	20.08	uL/L	93
102)	1,2-Dibromo-3-Chloropropan	19.56	75	13046	12.92	ug/L	94
103)	1,2,4-Trichlorobenzene	20.76	180	42330	6.79	ug/L	98
104)	Hexachlorobutadiene	20.84	225	32785	12.11	ug/L	96
105)	Naphthalene	21.23	128	39037	3.55	ug/L	100
106)	1,2,3-Trichlorobenzene	21.63	180	9685	0.99	ug/L	96
108)	TPH-GRO (C6-C10)	12.34	TIC	42452921m	1748.22	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020700.D VF3547AP9G.M Wed Oct 14 13:32:44 2009

Quantitation Report   (QT Reviewed)

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Data File : C:\MSDCHEM\2\DATA\VF3599\F020700.D          Vial: 2
Acq On    : 13 Oct 2009   9:31 am                    Operator: AnjanaP
Sample    : cc3547-20                                 Inst    : GC/MS F
Misc      : ms7103,vf3599,5,,,5,,water                Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 10:31 2009              Quant Results File: VF3547AP9G.RES

Method         : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title          : SW846 8260B and EPA 624
Last Update    : Thu Oct 08 12:40:30 2009
Response via   : Initial Calibration
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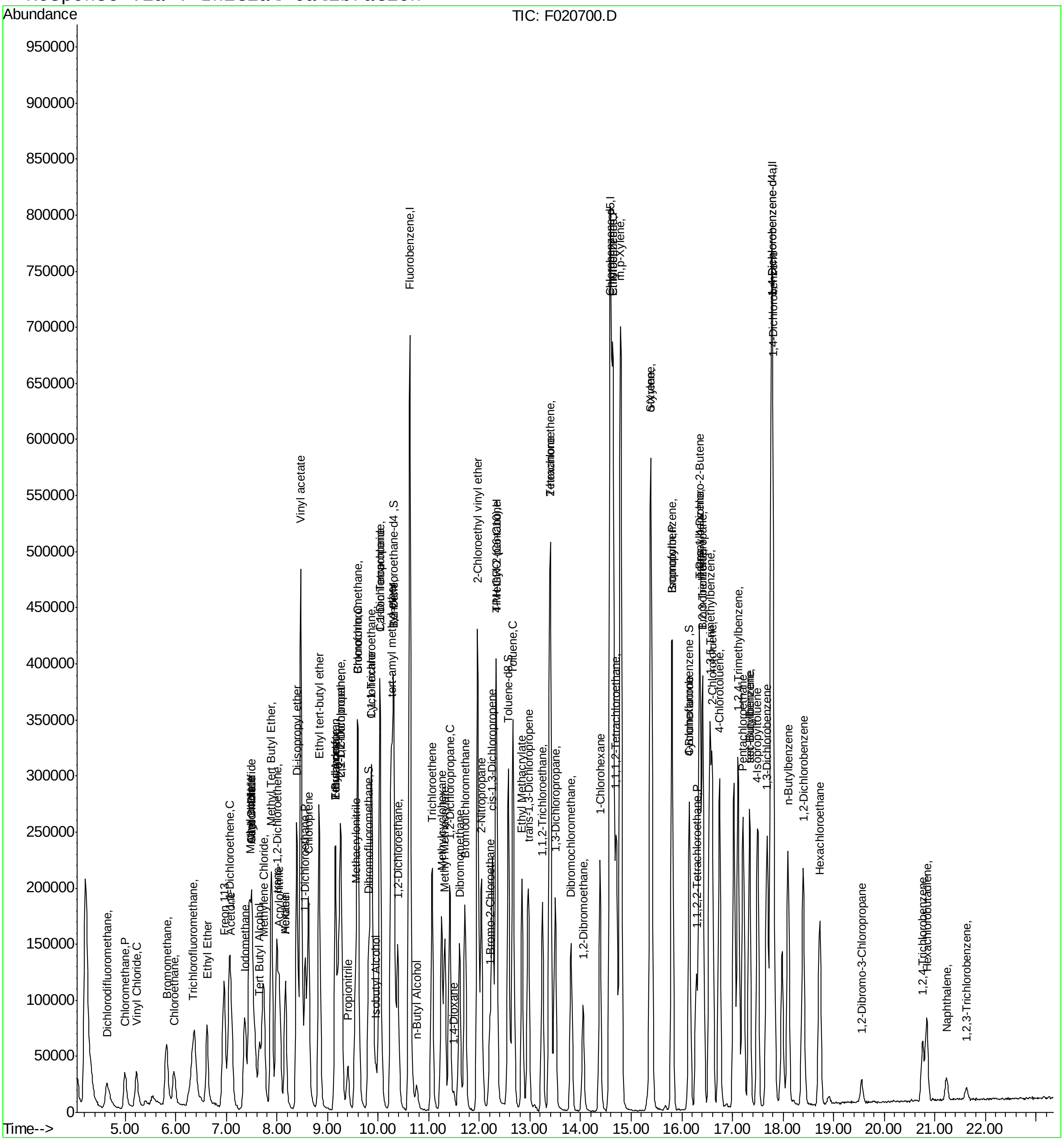


F020700.D   VF3547AP9G.M   Wed Oct 14 13:32:44 2009   Page 4

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/14/09 16:36

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020724.D Vial: 26
Acq On : 13 Oct 2009 9:43 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:56:21 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1201415	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	938073	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	534163	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	534163	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.82	113	262274	36.82	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 73.64%#			
45) 1,2-Dichloroethane-d4	10.31	65	316616	34.38	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 68.76%#			
62) Toluene-d8	12.59	98	766716	35.91	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 71.82%#			
83) 4-Bromofluorobenzene	16.16	95	346233	34.47	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 68.94%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.64	85	155530	23.05	ug/L	96
3) Chloromethane	5.00	50	186949	30.48	ug/L	100
4) Vinyl Chloride	5.22	62	181372	35.69	ug/L	97
5) Bromomethane	5.82	94	169443	44.20	ug/L	98
6) Chloroethane	5.97	64	130517	40.68	ug/L	96
7) Trichlorofluoromethane	6.34	101	324157	31.09	ug/L	99
8) Acrolein	8.17	56	94874	182.18	ug/L	97
9) Ethyl Ether	6.62	59	156674	36.20	ug/L	96
10) 1,1-Dichloroethene	7.06	61	344284	40.89	ug/L	94
11) Freon 113	6.96	101	219316	40.52	ug/L	95
12) Acetone	7.11	43	293336	186.29	ug/L	91
13) Iodomethane	7.37	142	407311	43.64	ug/L	92
14) Methyl acetate	7.46	43	719547	207.83	ug/L	96
15) Allyl Chloride	7.51	41	239784m	39.23	uL/L	
16) Carbon Disulfide	7.50	76	673095	40.58	ug/L	93
17) Acetonitrile	7.51	41	107293m	98.24	uL/L	
18) Methylene Chloride	7.74	49	295189	41.82	ug/L	97
19) Tert Butyl Alcohol	7.67	59	192195	383.41	ug/L	79
20) trans-1,2-Dichloroethene	8.00	61	319496	40.72	ug/L	96
21) Acrylonitrile	8.05	53	283255	201.62	ug/L	94
22) Methyl Tert Butyl Ether	7.90	73	694154	39.04	ug/L	97
23) Hexane	8.18	57	160128	36.93	ug/L	86
24) 1,1-Dichloroethane	8.57	63	388092	39.14	ug/L	96
25) Vinyl acetate	8.48	43	2424758	194.82	ug/L	96
26) Di-isopropyl ether	8.41	45	765021	39.44	ug/L	94
27) Chloroprene	8.63	53	342427	37.26	uL/L	92
28) Ethyl tert-butyl ether	8.84	59	767359	40.26	ug/L	98
29) 2,2-Dichloropropane	9.25	77	234522	28.65	ug/L	96
30) cis-1,2-Dichloroethene	9.28	96	266214	39.02	ug/L	90
31) Ethyl Acetate	9.17	43	1405069	209.22	uL/L	98
32) 2-Butanone	9.17	43	1405069	209.22	ug/L	100
33) Propionitrile	9.41	54	124561	242.46	uL/L	97
34) Methacrylonitrile	9.56	41	164496	36.45	uL/L	93
35) Bromochloromethane	9.61	128	141871	42.01	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020724.D Vial: 26
Acq On : 13 Oct 2009 9:43 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:56:21 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.61	83	479735	36.51	ug/L		98
37)	Tetrahydrofuran	9.17	42	114611	38.66	ug/L		93
38)	1,1,1-Trichloroethane	9.87	97	389084	34.35	ug/L		98
40)	Cyclohexane	9.89	56	275225	40.39	ug/L		92
41)	Isobutyl Alcohol	9.97	43	70305	840.80	uL/L		87
42)	n-Butyl Alcohol	10.78	56	43739	872.35	ug/L		84
43)	1,1-Dichloropropene	10.04	75	322971	38.27	ug/L		90
44)	Carbon Tetrachloride	10.05	117	337358	34.18	ug/L		98
46)	Benzene	10.33	78	846101	42.92	ug/L		85
47)	1,2-Dichloroethane	10.41	62	387692	33.89	ug/L		97
48)	tert-amyl methyl ether	10.27	73	732445	40.80	ug/L		94
49)	Trichloroethene	11.07	95	267194	40.15	ug/L		98
50)	Methylcyclohexane	11.27	83	241157	37.97	ug/L		97
51)	Methyl Methacrylate	11.33	41	204019	38.75	uL/L		90
52)	1,2-Dichloropropane	11.43	63	203217	41.89	ug/L		82
53)	Dibromomethane	11.63	93	183326	39.24	ug/L		95
54)	1,4-Dioxane	11.51	88	44712	917.99	ug/L		96
55)	Bromodichloromethane	11.73	83	387075	34.13	ug/L		99
56)	2-Nitropropane	12.06	41	385873	161.23	ug/L		96
57)	2-Chloroethyl vinyl ether	11.98	63	644951	258.29	ug/L		98
58)	1-Bromo-2-Chloroethane	12.22	63	211257	29.82	uL/L		98
59)	4-Methyl-2-pentanone	12.34	43	900504	192.10	ug/L		96
60)	cis-1,3-Dichloropropene	12.27	75	381915	36.05	ug/L		88
63)	Toluene	12.68	91	934345	37.14	ug/L		99
64)	Ethyl Methacrylate	12.87	69	297359	37.07	uL/:		97
65)	trans-1,3-Dichloropropene	12.98	75	340895	31.24	ug/L		93
66)	1,1,2-Trichloroethane	13.27	83	172999	36.73	ug/L		90
67)	Tetrachloroethene	13.41	166	305040	38.57	ug/L		96
68)	2-hexanone	13.42	43	653983	181.22	ug/L		93
69)	1,3-Dichloropropane	13.51	76	384937	36.35	ug/L		89
70)	Dibromochloromethane	13.83	129	271361	33.42	ug/L		98
71)	1,2-Dibromoethane	14.07	107	246458	37.25	ug/L		99
72)	1-Chlorohexane	14.40	91	302744	34.32	ug/L		88
73)	Chlorobenzene	14.65	112	618274	37.04	ug/L		91
74)	1,1,1,2-Tetrachloroethane	14.72	131	247704	34.31	ug/L		96
75)	Ethylbenzene	14.67	91	1087575	34.71	ug/L		99
76)	m,p-Xylene	14.81	91	1685748	69.92	ug/L		96
77)	o-Xylene	15.39	91	893410	35.62	ug/L		95
78)	Styrene	15.41	104	707126	39.65	ug/L		94
79)	Bromoform	15.82	173	186973	32.36	ug/L		96
81)	Isopropylbenzene	15.83	105	829537	34.30	ug/L		99
82)	Cyclohexanone	16.16	55	39674	195.32	ug/L		91
84)	Bromobenzene	16.43	156	313488	36.26	ug/L		97
85)	1,1,2,2-Tetrachloroethane	16.30	83	231746	35.06	ug/L		100
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	22799	9.32	ug/L	#	37
87)	1,2,3-Trichloropropane	16.43	110	86953	34.50	ug/L		87
88)	n-Propylbenzene	16.37	91	1083265	32.67	ug/L		99
89)	2-Chlorotoluene	16.61	91	820360	33.29	ug/L		98
90)	4-Chlorotoluene	16.76	91	770192	33.46	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020724.D Vial: 26
Acq On : 13 Oct 2009 9:43 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 13:56:21 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

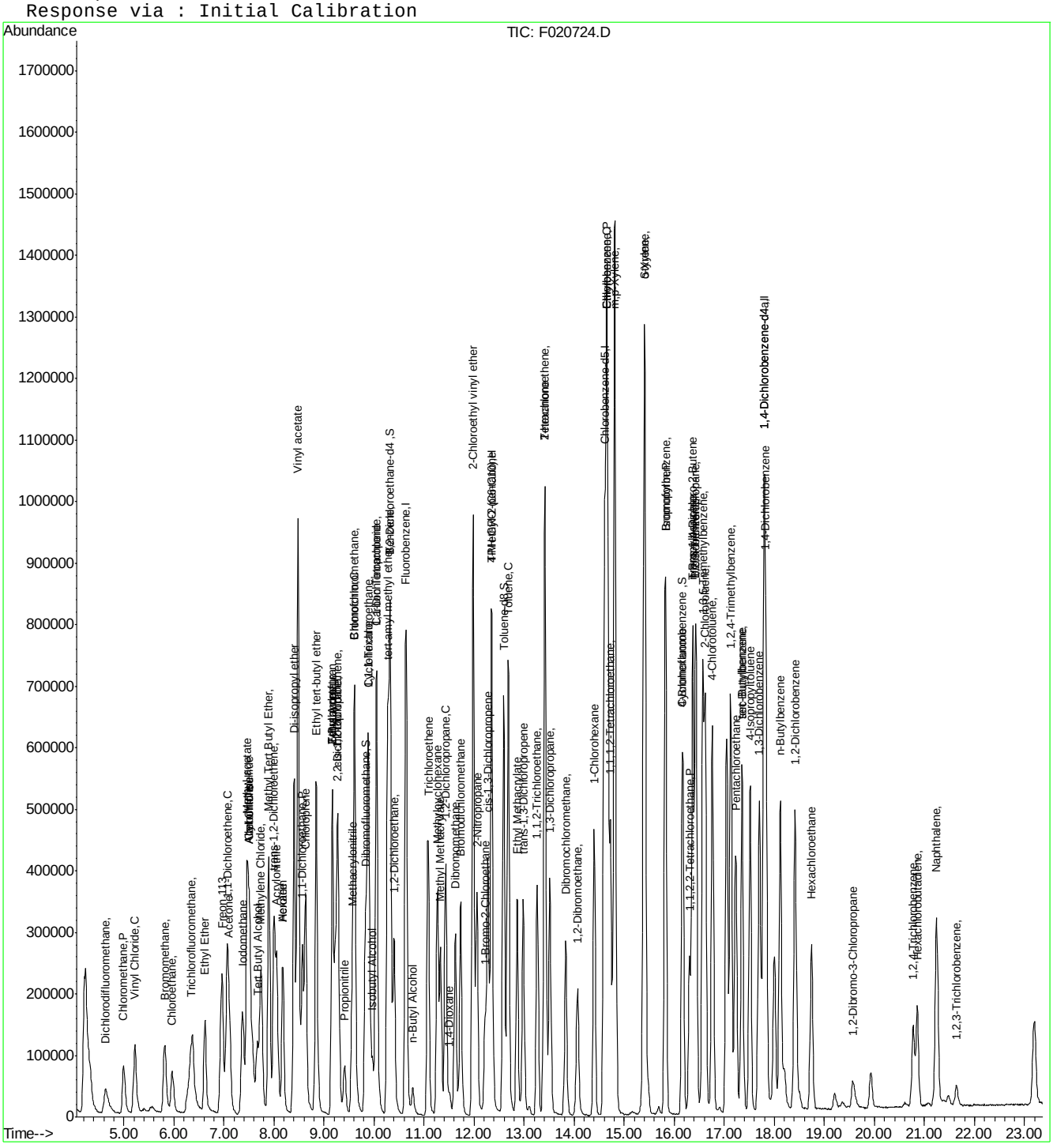
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	738098	33.65	ug/L	99
92)	Pentachloroethane	17.23	167	175186	31.42	uL/L	99
93)	sec-Butylbenzene	17.35	105	787742	32.56	ug/L	99
94)	1,3-Dichlorobenzene	17.71	146	461199	34.15	ug/L	97
95)	4-Isopropyltoluene	17.52	119	621886	31.62	ug/L	99
96)	1,4-Dichlorobenzene	17.83	146	487980	35.08	ug/L	98
97)	tert-Butylbenzene	17.35	91	128689	30.64	ug/L	94
98)	n-Butylbenzene	18.12	91	582674	30.60	ug/L	98
99)	1,2-Dichlorobenzene	18.41	146	461099	36.39	ug/L	96
100)	1,2,4-Trimethylbenzene	17.13	105	769222	32.81	ug/L	98
101)	Hexachloroethane	18.74	119	123412	26.48	uL/L	96
102)	1,2-Dibromo-3-Chloropropan	19.57	75	25196	21.39	ug/L	89
103)	1,2,4-Trichlorobenzene	20.78	180	105722	15.41	ug/L	99
104)	Hexachlorobutadiene	20.86	225	73251	24.19	ug/L	96
105)	Naphthalene	21.24	128	635116	70.08	ug/L	99
106)	1,2,3-Trichlorobenzene	21.64	180	28702	6.03	ug/L	98
108)	TPH-GRO (C6-C10)	12.34	TIC	84391195m	2299.09	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020724.D VF3547AP9G.M Wed Oct 14 14:48:12 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3599\F020724.D Vial: 26
Acq On : 13 Oct 2009 9:43 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7105,vf3600,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 14:28 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 09:27

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	918691	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	752317	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.79	152	442378	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.79	152	442378	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	242162	44.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.92%			
45) 1,2-Dichloroethane-d4	10.29	65	319119	45.97	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 91.94%			
62) Toluene-d8	12.58	98	699007	40.48	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 80.96%#			
83) 4-Bromofluorobenzene	16.16	95	318202	38.18	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 76.36%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.62	85	157796	30.58	ug/L	93
3) Chloromethane	4.98	50	147946	31.59	ug/L	97
4) Vinyl Chloride	5.20	62	147977	38.16	ug/L	93
5) Bromomethane	5.80	94	156642	53.84	ug/L	98
6) Chloroethane	5.95	64	112760	45.97	ug/L	99
7) Trichlorofluoromethane	6.32	101	321588	40.34	ug/L	97
8) Acrolein	8.16	56	76323	191.66	ug/L	98
9) Ethyl Ether	6.60	59	126378	38.19	ug/L	97
10) 1,1-Dichloroethene	7.05	61	287038	44.59	ug/L	98
11) Freon 113	6.94	101	181675	43.90	ug/L	96
12) Acetone	7.09	43	242912	202.65	ug/L	92
13) Iodomethane	7.36	142	340477	47.71	ug/L	96
14) Methyl acetate	7.46	43	555232	209.71	ug/L	97
15) Allyl Chloride	7.50	41	269002	60.26	uL/L	90
16) Carbon Disulfide	7.50	76	534690	42.16	ug/L	91
17) Acetonitrile	7.50	41	81860m	98.01	uL/L	
18) Methylene Chloride	7.72	49	227479	42.15	ug/L	95
19) Tert Butyl Alcohol	7.65	59	162079	422.83	ug/L	83
20) trans-1,2-Dichloroethene	7.99	61	261586	43.59	ug/L	96
21) Acrylonitrile	8.05	53	210681	196.11	ug/L	99
22) Methyl Tert Butyl Ether	7.89	73	585212	43.04	ug/L	98
23) Hexane	8.16	57	125857	37.96	ug/L	91
24) 1,1-Dichloroethane	8.56	63	316516	41.75	ug/L	98
25) Vinyl acetate	8.47	43	1962221	206.17	ug/L	99
26) Di-isopropyl ether	8.39	45	591212	39.86	ug/L	98
27) Chloroprene	8.62	53	292377	41.60	uL/L	97
28) Ethyl tert-butyl ether	8.83	59	633791	43.49	ug/L	99
29) 2,2-Dichloropropane	9.25	77	232465	37.14	ug/L	97
30) cis-1,2-Dichloroethene	9.27	96	209695	40.20	ug/L	94
31) Ethyl Acetate	9.15	43	1101331	214.46	uL/L	98
32) 2-Butanone	9.15	43	1101331	214.46	ug/L	100
33) Propionitrile	9.39	54	93955	239.17	uL/L	99
34) Methacrylonitrile	9.55	41	132989	38.54	uL/L	99
35) Bromochloromethane	9.59	128	115096	44.57	ug/L	96

(#) = qualifier out of range (m) = manual integration
F020748.D VF3547AP9G.M Thu Oct 15 09:04:40 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.60	83	416479	41.45 ug/L		99
37)	Tetrahydrofuran	9.15	42	99829	44.25 ug/L		97
38)	1,1,1-Trichloroethane	9.86	97	343055	39.61 ug/L		98
40)	Cyclohexane	9.88	56	207830	39.88 ug/L		97
41)	Isobutyl Alcohol	9.96	43	52665	824.17 uL/L		83
42)	n-Butyl Alcohol	10.76	56	31457	822.99 ug/L		89
43)	1,1-Dichloropropene	10.03	75	270636	41.94 ug/L		95
44)	Carbon Tetrachloride	10.03	117	302693	40.11 ug/L		97
46)	Benzene	10.31	78	655655	43.50 ug/L		93
47)	1,2-Dichloroethane	10.39	62	349348	39.94 ug/L		98
48)	tert-amyl methyl ether	10.26	73	597830	43.55 ug/L		97
49)	Trichloroethene	11.07	95	215715	42.45 ug/L		99
50)	Methylcyclohexane	11.26	83	190229	39.17 ug/L		95
51)	Methyl Methacrylate	11.32	41	168813	41.93 uL/L		95
52)	1,2-Dichloropropane	11.42	63	155241	41.85 ug/L		92
53)	Dibromomethane	11.61	93	154275	43.19 ug/L		99
54)	1,4-Dioxane	11.50	88	33923	910.82 ug/L		91
55)	Bromodichloromethane	11.72	83	338931	39.08 ug/L		100
56)	2-Nitropropane	12.04	41	361816	197.70 ug/L		97
57)	2-Chloroethyl vinyl ether	11.97	63	510063	267.13 ug/L		96
58)	1-Bromo-2-Chloroethane	12.21	63	161964	29.89 uL/L		98
59)	4-Methyl-2-pentanone	12.34	43	733782	204.70 ug/L		98
60)	cis-1,3-Dichloropropene	12.27	75	340394	42.02 ug/L		93
63)	Toluene	12.67	91	761508	37.74 ug/L		100
64)	Ethyl Methacrylate	12.85	69	247794	38.51 uL/:		97
65)	trans-1,3-Dichloropropene	12.98	75	320036	36.56 ug/L		95
66)	1,1,2-Trichloroethane	13.25	83	147521	39.05 ug/L		93
67)	Tetrachloroethene	13.40	166	241908	38.14 ug/L		97
68)	2-hexanone	13.41	43	542503	187.45 ug/L		94
69)	1,3-Dichloropropane	13.51	76	326149	38.40 ug/L		91
70)	Dibromochloromethane	13.82	129	240602	36.95 ug/L		99
71)	1,2-Dibromoethane	14.06	107	205656	38.76 ug/L		98
72)	1-Chlorohexane	14.39	91	248478	35.12 ug/L		89
73)	Chlorobenzene	14.64	112	502973	37.57 ug/L		93
74)	1,1,1,2-Tetrachloroethane	14.72	131	213561	36.88 ug/L		97
75)	Ethylbenzene	14.66	91	903927	35.98 ug/L		99
76)	m,p-Xylene	14.81	91	1408707	72.86 ug/L		97
77)	o-Xylene	15.39	91	723728	35.98 ug/L		98
78)	Styrene	15.41	104	551999	38.59 ug/L		96
79)	Bromoform	15.81	173	167575	36.17 ug/L		96
81)	Isopropylbenzene	15.82	105	662763	33.09 ug/L		99
82)	Cyclohexanone	16.14	55	32008	190.35 ug/L		87
84)	Bromobenzene	16.43	156	255596	35.69 ug/L		94
85)	1,1,2,2-Tetrachloroethane	16.30	83	183872	33.59 ug/L		98
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	52171	25.74 ug/L	#	90
87)	1,2,3-Trichloropropane	16.42	110	72431	34.71 ug/L		92
88)	n-Propylbenzene	16.36	91	886245	32.28 ug/L		100
89)	2-Chlorotoluene	16.62	91	671333	32.90 ug/L		97
90)	4-Chlorotoluene	16.75	91	635839	33.36 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

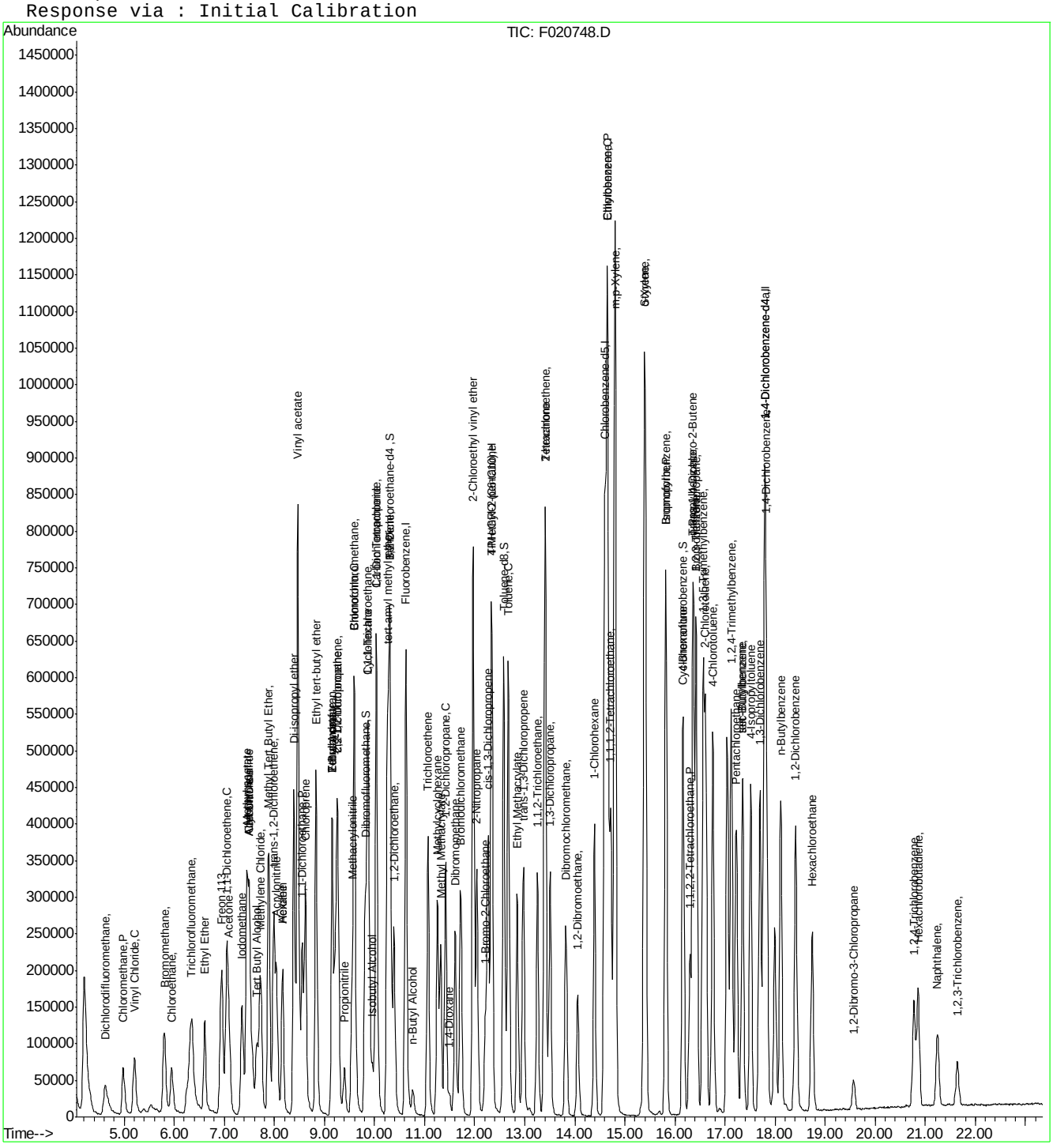
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	599476	33.00	ug/L		99
92)	Pentachloroethane	17.23	167	161767	35.03	uL/L		97
93)	sec-Butylbenzene	17.35	105	627232	31.31	ug/L		99
94)	1,3-Dichlorobenzene	17.70	146	383153	34.26	ug/L		97
95)	4-Isopropyltoluene	17.51	119	505726	31.05	ug/L		100
96)	1,4-Dichlorobenzene	17.83	146	406549	35.29	ug/L		99
97)	tert-Butylbenzene	17.34	91	112071	32.27	ug/L		97
98)	n-Butylbenzene	18.11	91	483770	30.68	ug/L		99
99)	1,2-Dichlorobenzene	18.41	146	359277	34.23	ug/L		96
100)	1,2,4-Trimethylbenzene	17.13	105	627301	32.31	ug/L		98
101)	Hexachloroethane	18.74	119	107381	27.82	uL/L		94
102)	1,2-Dibromo-3-Chloropropan	19.57	75	23945	25.04	ug/L	#	83
103)	1,2,4-Trichlorobenzene	20.78	180	115409	21.00	ug/L		97
104)	Hexachlorobutadiene	20.86	225	74140	30.42	ug/L		96
105)	Naphthalene	21.24	128	197562	25.02	ug/L		100
106)	1,2,3-Trichlorobenzene	21.64	180	52619	16.74	ug/L		97
108)	TPH-GRO (C6-C10)	12.34	TIC	74006618m	2389.09	ug/kg		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:04 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/15/09 18:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	918691	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.60	117	752317	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.79	152	442378	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.79	152	442378	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	242162	44.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.92%			
45) 1,2-Dichloroethane-d4	10.29	65	319119	45.97	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 91.94%			
62) Toluene-d8	12.58	98	699007	40.48	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 80.96%#			
83) 4-Bromofluorobenzene	16.16	95	318202	38.18	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 76.36%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.62	85	157796	30.58	ug/L	93
3) Chloromethane	4.98	50	147946	31.59	ug/L	97
4) Vinyl Chloride	5.20	62	147977	38.16	ug/L	93
5) Bromomethane	5.80	94	156642	53.84	ug/L	98
6) Chloroethane	5.95	64	112760	45.97	ug/L	99
7) Trichlorofluoromethane	6.32	101	321588	40.34	ug/L	97
8) Acrolein	8.16	56	76323	191.66	ug/L	98
9) Ethyl Ether	6.60	59	126378	38.19	ug/L	97
10) 1,1-Dichloroethene	7.05	61	287038	44.59	ug/L	98
11) Freon 113	6.94	101	181675	43.90	ug/L	96
12) Acetone	7.09	43	242912	202.65	ug/L	92
13) Iodomethane	7.36	142	340477	47.71	ug/L	96
14) Methyl acetate	7.46	43	555232	209.71	ug/L	97
15) Allyl Chloride	7.50	41	269002	60.26	uL/L	90
16) Carbon Disulfide	7.50	76	534690	42.16	ug/L	91
17) Acetonitrile	7.50	41	81860m	98.01	uL/L	
18) Methylene Chloride	7.72	49	227479	42.15	ug/L	95
19) Tert Butyl Alcohol	7.65	59	162079	422.83	ug/L	83
20) trans-1,2-Dichloroethene	7.99	61	261586	43.59	ug/L	96
21) Acrylonitrile	8.05	53	210681	196.11	ug/L	99
22) Methyl Tert Butyl Ether	7.89	73	585212	43.04	ug/L	98
23) Hexane	8.16	57	125857	37.96	ug/L	91
24) 1,1-Dichloroethane	8.56	63	316516	41.75	ug/L	98
25) Vinyl acetate	8.47	43	1962221	206.17	ug/L	99
26) Di-isopropyl ether	8.39	45	591212	39.86	ug/L	98
27) Chloroprene	8.62	53	292377	41.60	uL/L	97
28) Ethyl tert-butyl ether	8.83	59	633791	43.49	ug/L	99
29) 2,2-Dichloropropane	9.25	77	232465	37.14	ug/L	97
30) cis-1,2-Dichloroethene	9.27	96	209695	40.20	ug/L	94
31) Ethyl Acetate	9.15	43	1101331	214.46	uL/L	98
32) 2-Butanone	9.15	43	1101331	214.46	ug/L	100
33) Propionitrile	9.39	54	93955	239.17	uL/L	99
34) Methacrylonitrile	9.55	41	132989	38.54	uL/L	99
35) Bromochloromethane	9.59	128	115096	44.57	ug/L	96

(#) = qualifier out of range (m) = manual integration
F020748.D VF3547AP9G.M Thu Oct 15 09:04:40 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.60	83	416479	41.45 ug/L		99
37)	Tetrahydrofuran	9.15	42	99829	44.25 ug/L		97
38)	1,1,1-Trichloroethane	9.86	97	343055	39.61 ug/L		98
40)	Cyclohexane	9.88	56	207830	39.88 ug/L		97
41)	Isobutyl Alcohol	9.96	43	52665	824.17 uL/L		83
42)	n-Butyl Alcohol	10.76	56	31457	822.99 ug/L		89
43)	1,1-Dichloropropene	10.03	75	270636	41.94 ug/L		95
44)	Carbon Tetrachloride	10.03	117	302693	40.11 ug/L		97
46)	Benzene	10.31	78	655655	43.50 ug/L		93
47)	1,2-Dichloroethane	10.39	62	349348	39.94 ug/L		98
48)	tert-amyl methyl ether	10.26	73	597830	43.55 ug/L		97
49)	Trichloroethene	11.07	95	215715	42.45 ug/L		99
50)	Methylcyclohexane	11.26	83	190229	39.17 ug/L		95
51)	Methyl Methacrylate	11.32	41	168813	41.93 uL/L		95
52)	1,2-Dichloropropane	11.42	63	155241	41.85 ug/L		92
53)	Dibromomethane	11.61	93	154275	43.19 ug/L		99
54)	1,4-Dioxane	11.50	88	33923	910.82 ug/L		91
55)	Bromodichloromethane	11.72	83	338931	39.08 ug/L		100
56)	2-Nitropropane	12.04	41	361816	197.70 ug/L		97
57)	2-Chloroethyl vinyl ether	11.97	63	510063	267.13 ug/L		96
58)	1-Bromo-2-Chloroethane	12.21	63	161964	29.89 uL/L		98
59)	4-Methyl-2-pentanone	12.34	43	733782	204.70 ug/L		98
60)	cis-1,3-Dichloropropene	12.27	75	340394	42.02 ug/L		93
63)	Toluene	12.67	91	761508	37.74 ug/L		100
64)	Ethyl Methacrylate	12.85	69	247794	38.51 uL/:		97
65)	trans-1,3-Dichloropropene	12.98	75	320036	36.56 ug/L		95
66)	1,1,2-Trichloroethane	13.25	83	147521	39.05 ug/L		93
67)	Tetrachloroethene	13.40	166	241908	38.14 ug/L		97
68)	2-hexanone	13.41	43	542503	187.45 ug/L		94
69)	1,3-Dichloropropane	13.51	76	326149	38.40 ug/L		91
70)	Dibromochloromethane	13.82	129	240602	36.95 ug/L		99
71)	1,2-Dibromoethane	14.06	107	205656	38.76 ug/L		98
72)	1-Chlorohexane	14.39	91	248478	35.12 ug/L		89
73)	Chlorobenzene	14.64	112	502973	37.57 ug/L		93
74)	1,1,1,2-Tetrachloroethane	14.72	131	213561	36.88 ug/L		97
75)	Ethylbenzene	14.66	91	903927	35.98 ug/L		99
76)	m,p-Xylene	14.81	91	1408707	72.86 ug/L		97
77)	o-Xylene	15.39	91	723728	35.98 ug/L		98
78)	Styrene	15.41	104	551999	38.59 ug/L		96
79)	Bromoform	15.81	173	167575	36.17 ug/L		96
81)	Isopropylbenzene	15.82	105	662763	33.09 ug/L		99
82)	Cyclohexanone	16.14	55	32008	190.35 ug/L		87
84)	Bromobenzene	16.43	156	255596	35.69 ug/L		94
85)	1,1,2,2-Tetrachloroethane	16.30	83	183872	33.59 ug/L		98
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	52171	25.74 ug/L	#	90
87)	1,2,3-Trichloropropane	16.42	110	72431	34.71 ug/L		92
88)	n-Propylbenzene	16.36	91	886245	32.28 ug/L		100
89)	2-Chlorotoluene	16.62	91	671333	32.90 ug/L		97
90)	4-Chlorotoluene	16.75	91	635839	33.36 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 09:04:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

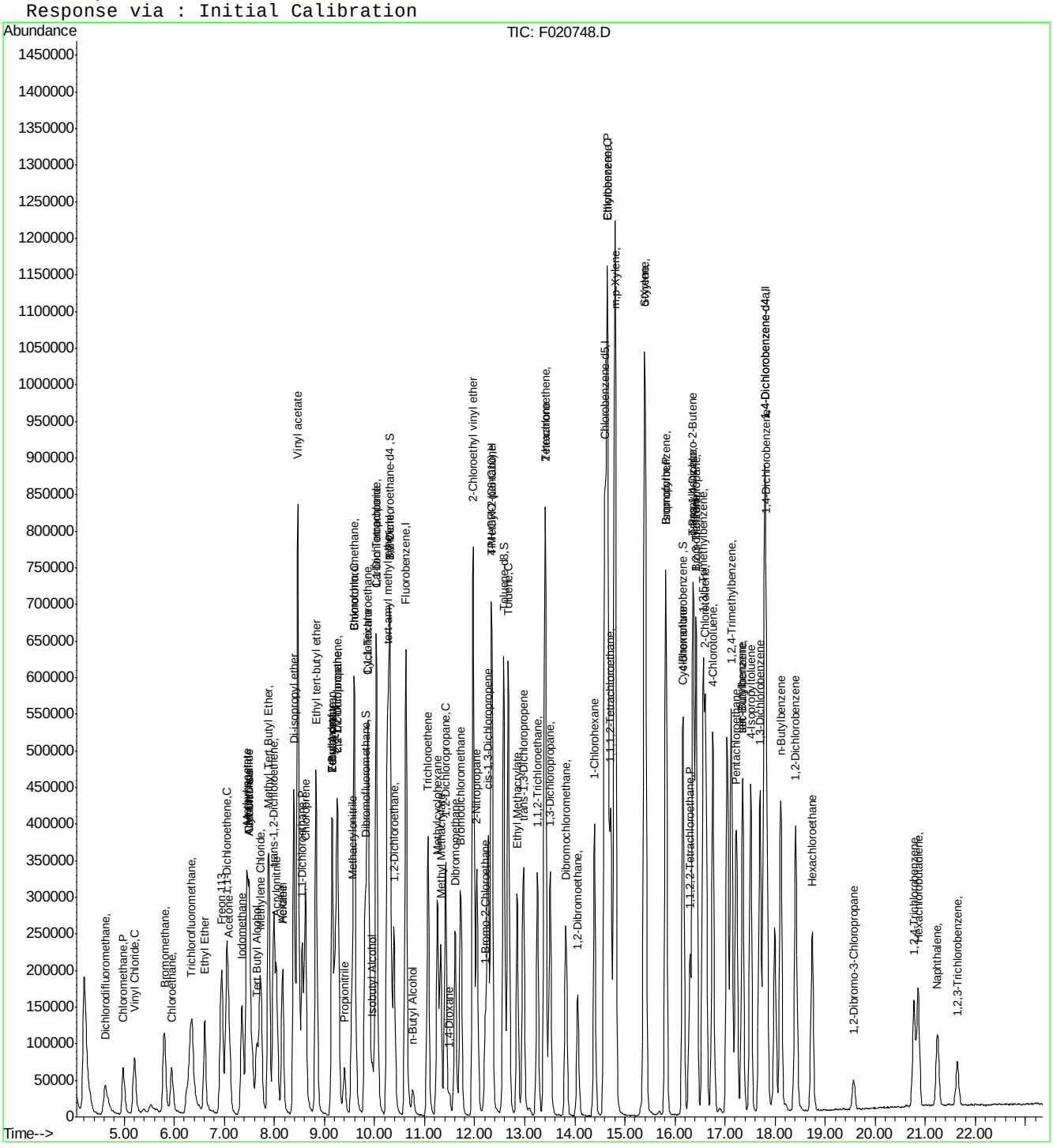
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	599476	33.00	ug/L		99
92)	Pentachloroethane	17.23	167	161767	35.03	uL/L		97
93)	sec-Butylbenzene	17.35	105	627232	31.31	ug/L		99
94)	1,3-Dichlorobenzene	17.70	146	383153	34.26	ug/L		97
95)	4-Isopropyltoluene	17.51	119	505726	31.05	ug/L		100
96)	1,4-Dichlorobenzene	17.83	146	406549	35.29	ug/L		99
97)	tert-Butylbenzene	17.34	91	112071	32.27	ug/L		97
98)	n-Butylbenzene	18.11	91	483770	30.68	ug/L		99
99)	1,2-Dichlorobenzene	18.41	146	359277	34.23	ug/L		96
100)	1,2,4-Trimethylbenzene	17.13	105	627301	32.31	ug/L		98
101)	Hexachloroethane	18.74	119	107381	27.82	uL/L		94
102)	1,2-Dibromo-3-Chloropropan	19.57	75	23945	25.04	ug/L	#	83
103)	1,2,4-Trichlorobenzene	20.78	180	115409	21.00	ug/L		97
104)	Hexachlorobutadiene	20.86	225	74140	30.42	ug/L		96
105)	Naphthalene	21.24	128	197562	25.02	ug/L		100
106)	1,2,3-Trichlorobenzene	21.64	180	52619	16.74	ug/L		97
108)	TPH-GRO (C6-C10)	12.34	TIC	74006618m	2389.09	ug/kg		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3601\F020748.D Vial: 3
Acq On : 14 Oct 2009 10:53 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : op13245,vf3601,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 9:04 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Wed Oct 14 13:44:25 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/15/09 16:44

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020774.D Vial: 2
Acq On : 15 Oct 2009 9:36 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 10:06:48 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.65	96	1106564	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.62	117	788756	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.80	152	445191	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	445191	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	136292	20.77	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 41.54%#			
45) 1,2-Dichloroethane-d4	10.32	65	185931	21.18	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 42.36%#			
62) Toluene-d8	12.60	98	388726	22.63	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 45.26%#			
83) 4-Bromofluorobenzene	16.18	95	181736	21.96	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 43.92%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.65	85	77735	12.51	ug/L	99
3) Chloromethane	5.02	50	80469	13.54	ug/L	98
4) Vinyl Chloride	5.24	62	83059	17.12	ug/L	97
5) Bromomethane	5.83	94	90160	24.70	ug/L	99
6) Chloroethane	5.98	64	64357	21.78	ug/L	98
7) Trichlorofluoromethane	6.35	101	180778	18.82	ug/L	98
8) Acrolein	8.19	56	43540	90.77	ug/L	98
9) Ethyl Ether	6.63	59	74460	18.68	ug/L	94
10) 1,1-Dichloroethene	7.08	61	162012	20.89	ug/L	97
11) Freon 113	6.98	101	100206	20.10	ug/L	96
12) Acetone	7.12	43	148461	97.43	ug/L	94
13) Iodomethane	7.39	142	190664	22.18	ug/L	94
14) Methyl acetate	7.48	43	334937	106.09	ug/L	97
15) Allyl Chloride	7.53	41	137237m	23.13	uL/L	
16) Carbon Disulfide	7.53	76	305619	20.00	ug/L	92
17) Acetonitrile	7.53	41	62154m	59.31	uL/L	
18) Methylene Chloride	7.75	49	137402	20.81	ug/L	98
19) Tert Butyl Alcohol	7.67	59	100120	216.85	ug/L	93
20) trans-1,2-Dichloroethene	8.01	61	148218	20.51	ug/L	96
21) Acrylonitrile	8.07	53	128158	99.04	ug/L	97
22) Methyl Tert Butyl Ether	7.91	73	344996	21.07	ug/L	99
23) Hexane	8.19	57	71930	18.01	ug/L	94
24) 1,1-Dichloroethane	8.58	63	176845	19.37	ug/L	96
25) Vinyl acetate	8.49	43	1163670	101.51	ug/L	97
26) Di-isopropyl ether	8.41	45	335754	18.79	ug/L	99
27) Chloroprene	8.65	53	171282	20.24	uL/L	96
28) Ethyl tert-butyl ether	8.85	59	366042	20.85	ug/L	99
29) 2,2-Dichloropropane	9.27	77	133224	17.67	ug/L	97
30) cis-1,2-Dichloroethene	9.30	96	116735	18.58	ug/L	90
31) Ethyl Acetate	9.18	43	660564	106.79	uL/L	99
32) 2-Butanone	9.18	43	660564	106.79	ug/L	100
33) Propionitrile	9.43	54	55314	116.90	uL/L	95
34) Methacrylonitrile	9.56	41	84646	20.37	uL/L	94
35) Bromochloromethane	9.61	128	64255	20.66	ug/L	98

(#) = qualifier out of range (m) = manual integration
F020774.D VF3547AP9G.M Thu Oct 15 16:31:36 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020774.D Vial: 2
Acq On : 15 Oct 2009 9:36 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 10:06:48 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	235796	19.48	ug/L		99
37)	Tetrahydrofuran	9.17	42	61004	21.69	ug/L		95
38)	1,1,1-Trichloroethane	9.88	97	194279	18.62	ug/L		98
40)	Cyclohexane	9.91	56	116985	18.64	ug/L		95
41)	Isobutyl Alcohol	9.98	43	33513	446.97	uL/L		72
42)	n-Butyl Alcohol	10.78	56	20526	465.26	ug/L		82
43)	1,1-Dichloropropene	10.06	75	151971	19.55	ug/L		96
44)	Carbon Tetrachloride	10.07	117	172620	18.99	ug/L		96
46)	Benzene	10.34	78	370169	20.39	ug/L		89
47)	1,2-Dichloroethane	10.41	62	203667	19.33	ug/L		99
48)	tert-amyl methyl ether	10.28	73	344944	20.86	ug/L		97
49)	Trichloroethene	11.09	95	119986	18.99	ug/L		96
50)	Methylcyclohexane	11.28	83	106554	18.22	ug/L		95
51)	Methyl Methacrylate	11.33	41	99450	20.51	uL/L		96
52)	1,2-Dichloropropane	11.44	63	87804	19.65	ug/L		92
53)	Dibromomethane	11.63	93	87369	20.31	ug/L		96
54)	1,4-Dioxane	11.52	88	20595	459.08	ug/L		91
55)	Bromodichloromethane	11.74	83	191745	18.36	ug/L		99
56)	2-Nitropropane	12.06	41	236251	107.17	ug/L		98
57)	2-Chloroethyl vinyl ether	11.99	63	285589	124.17	ug/L		97
58)	1-Bromo-2-Chloroethane	12.23	63	94616	14.50	uL/L		100
59)	4-Methyl-2-pentanone	12.36	43	428856	99.33	ug/L		99
60)	cis-1,3-Dichloropropene	12.29	75	189939	19.46	ug/L		91
63)	Toluene	12.69	91	426079	20.14	ug/L		99
64)	Ethyl Methacrylate	12.87	69	144525	21.43	uL/:		95
65)	trans-1,3-Dichloropropene	13.00	75	180599	19.68	ug/L		96
66)	1,1,2-Trichloroethane	13.27	83	80142	20.24	ug/L		94
67)	Tetrachloroethene	13.42	166	131032	19.70	ug/L		98
68)	2-hexanone	13.43	43	311916	102.79	ug/L		95
69)	1,3-Dichloropropane	13.53	76	183363	20.59	ug/L		89
70)	Dibromochloromethane	13.84	129	133992	19.63	ug/L		97
71)	1,2-Dibromoethane	14.08	107	115245	20.72	ug/L		100
72)	1-Chlorohexane	14.41	91	137309	18.51	ug/L		89
73)	Chlorobenzene	14.66	112	277709	19.78	ug/L		96
74)	1,1,1,2-Tetrachloroethane	14.73	131	119626	19.71	ug/L		96
75)	Ethylbenzene	14.67	91	505552	19.19	ug/L		99
76)	m,p-Xylene	14.82	91	785395	38.74	ug/L		98
77)	o-Xylene	15.41	91	410844	19.48	ug/L		96
78)	Styrene	15.43	104	310332	20.69	ug/L		95
79)	Bromoform	15.83	173	94114	19.37	ug/L		98
81)	Isopropylbenzene	15.83	105	370982	18.41	ug/L		98
82)	Cyclohexanone	16.17	55	27626	163.66	ug/L	#	80
84)	Bromobenzene	16.44	156	143941	19.97	ug/L		94
85)	1,1,2,2-Tetrachloroethane	16.31	83	109466	19.87	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.38	53	31206	15.30	ug/L	#	90
87)	1,2,3-Trichloropropane	16.44	110	42704	20.33	ug/L		87
88)	n-Propylbenzene	16.37	91	502740	18.19	ug/L		100
89)	2-Chlorotoluene	16.63	91	377750	18.39	ug/L		97
90)	4-Chlorotoluene	16.78	91	355559	18.53	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020774.D Vial: 2
Acq On : 15 Oct 2009 9:36 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 10:06:48 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

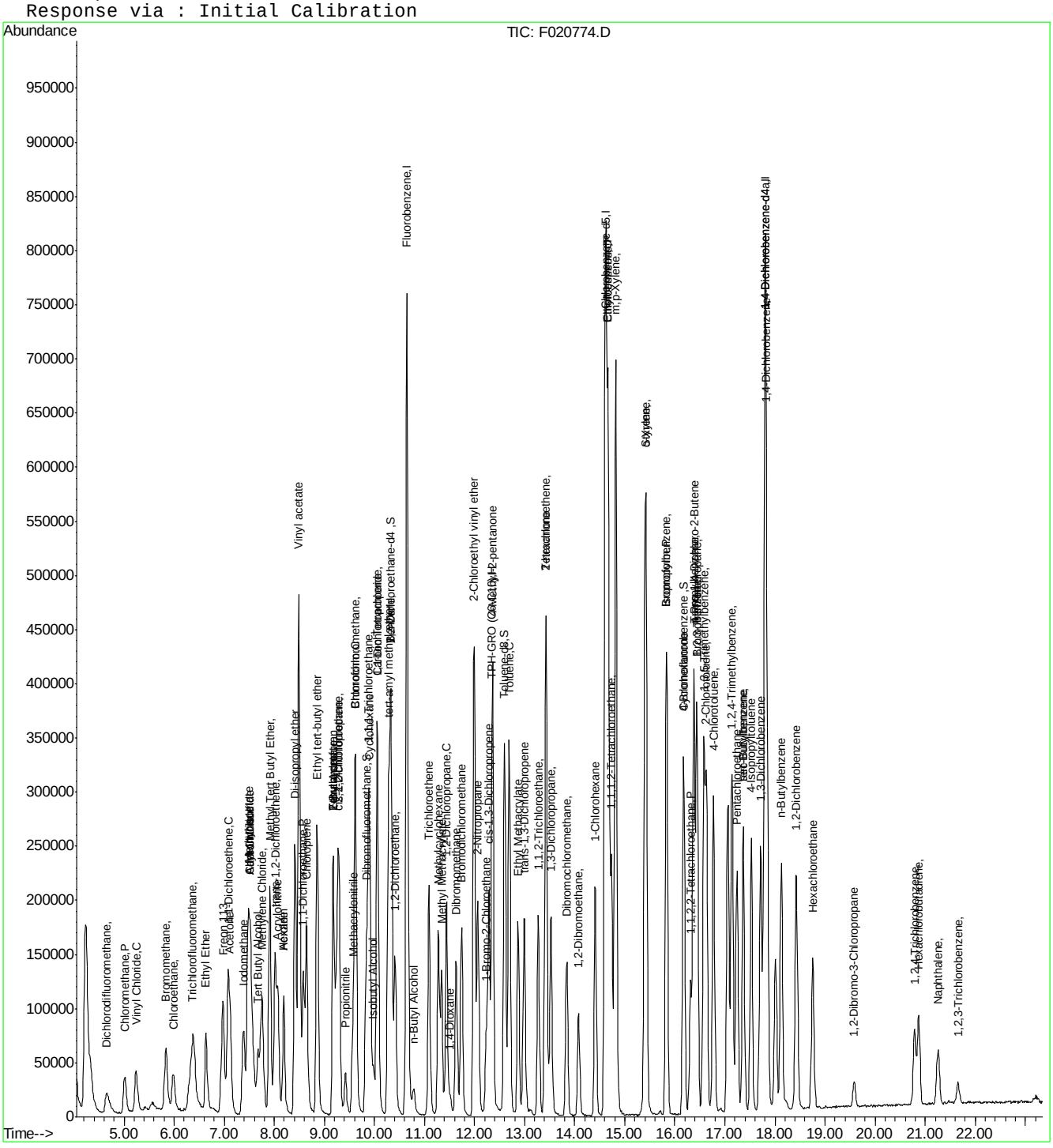
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	334691	18.31	ug/L	99
92)	Pentachloroethane	17.24	167	93166	20.05	uL/L	99
93)	sec-Butylbenzene	17.37	105	358017	17.76	ug/L	99
94)	1,3-Dichlorobenzene	17.71	146	214970	19.10	ug/L	98
95)	4-Isopropyltoluene	17.52	119	287613	17.54	ug/L	99
96)	1,4-Dichlorobenzene	17.84	146	225510	19.45	ug/L	97
97)	tert-Butylbenzene	17.37	91	63512	17.73	ug/L	97
98)	n-Butylbenzene	18.12	91	263631	16.61	ug/L	99
99)	1,2-Dichlorobenzene	18.42	146	200607	18.99	ug/L	97
100)	1,2,4-Trimethylbenzene	17.14	105	352386	18.03	ug/L	96
101)	Hexachloroethane	18.75	119	64279	16.55	uL/L	96
102)	1,2-Dibromo-3-Chloropropan	19.58	75	13792	12.89	ug/L	92
103)	1,2,4-Trichlorobenzene	20.79	180	55424	8.90	ug/L	97
104)	Hexachlorobutadiene	20.87	225	37173	13.23	ug/L	96
105)	Naphthalene	21.25	128	100145	11.57	ug/L	100
106)	1,2,3-Trichlorobenzene	21.66	180	17613	3.70	ug/L	93
108)	TPH-GRO (C6-C10)	12.34	TIC	41166389m	1665.42	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3603\F020774.D Vial: 2
Acq On : 15 Oct 2009 9:36 am Operator: AnjanaP
Sample : cc3547-20 Inst : GC/MS F
Misc : ms7105,vf3603,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 15 10:07 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 15 09:58:58 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7089, 7092, 7097
Batch ID: VC168-169

Date: 10/8/09 - 10/9/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB 3825
B	Internal Standard 3857
C	8260 Standard 3869, 3855, 3862, 3863
D	8260 BS/MS/MSD 3855, 3866, 3859, 3864
E	Surrogate Standard 3853
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC168
Calibration Date: 10/8/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	C0003814	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 µg/40ml/Avg.S.	AA
BC	15	IC168-1										1µg/100ml/FV	
	16	IC168-2										2 µg/100ml FV	
	17	IC168-5										5 µg/100ml FV	
	18	IC168-20										10 µg/50ml FV	
	19	IC168-40										20 µg/50ml FV	
	20	IC168-100										50 µg/50ml FV	
	21	IC168-200										100 µg/50ml FV	
BE	22	Blk										Clean Blk	
BDE	23	ICV 168-40										25 µg/50ml FV	
BE	24	Blk										Clean Blk	
BDE	25	BS										12.5 µg/40ml	
BE	26	Blk										Clean Blk	
	27	MB											
	28	T38384-1				<2		10x	9			5ml/50ml FV	
	29	T39208-8						1x	6				
	30	T38384-1						25x	9			2ml/50ml FV	
	31	T39208-8						1x	6				
BDE	32	T39208-8MS							8				
	33	8MSd					19		8				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

PS: new ICal run due to replacement of trap & frit.

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 48
Batch ID:

Date: 10/8/09 - 10/9-08

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 48

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:

See pg # 48

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	C000834	Blk	5ml	8260	W	N/A	20	N/A	N/A	N/A	Y	cleanup Blk	AL
	35	T38353-3				<2		1X	3				
	36	-5						1	3				
	37	-7						10X	3			5ml/50ml FV	
	38	Blk				N/A		N/A	N/A			cleanup Blk	
	39	↓										↓	
A	40	~~BFB~~ BFB	AL 10/9/09									Autofired 21:24	AL 10/9/09
BE	41	~~BFB~~ Blk										~~40 µl/40ml~~ cleanup Blk	
BC	42	CC168-40										20 µl/50ml FV	
BDE	43	BS										12.5 µl/40ml	
BE	44	Blk										cleanup Blk	
	45	MB											
	46	T39398-2				<2		1X	2				
	47	T39313-12							1				
	48	T39398-1							1				
BDE	49	-1MS							2			12.5 µl/40ml	
	50	-1MSD							2			↓	
BE	51	Blk				N/A		N/A	N/A			Cleanup Blk	
	52	T39313-1				<2		1X	8				
	53	-2					38		6				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 48
Batch ID:

Date: 10/8/09 - 10/9/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 48

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:

See pg # 48

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	C0003854	T39313-3	5ml	8260	W	<2	39	1X	6	N/A	Y		
	55	-4							6				
	56	T39209-1							3				
	57	-2							3				
	58	-4							3				
	59	-8							3				
	60	Blk				N/A		N/A	N/A			Cleanup Blk	
	61	↓					46					↓	

10/9/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.50

Form: MS015

6.7.1 6

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7091, 7105, 7110
Batch ID: VC 175 - 176

Date: 10/14/09 - 10/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB 3825
B	Internal Standard 3872
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3824
E	Surrogate Standard 3878
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC168
Calibration Date: 10/8/09

Solvent ID #: RU090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	CC003982	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup Blk	AL
A	83	BFB										40µ/40ml Auto	
BC	84	CC168-20										10µ/50ml FV	
	85	↓ -40										20µ/50ml FV	
BDE	86	BS										12.5µ/40ml	
BE	87	Blk										cleanup Blk	
	88	MB											
	89	T39308-5				<2		1X	1	1			
	90	-1							1	1		AVG=1.44	
BDE	91	-1MS							2	2		12.5 µ/40ml	
	92	-1MSd							2	2		↓	
BE	93	Blk				N/A		N/A	N/A	N/A		cleanup Blk	
	94	T39308-2				<2		1X	1				
	95	-3							1				
	96	-4							1				
	97	Blk				N/A		N/A	N/A			cleanup Blk	
	98	T39308-1				<2		5X	2			10ml/50ml FV	
	99	↓ -4						5X	2			↓	
	4000	T39511-9						1X	2				
	01	-8					19	10X	2			5ml/50ml FV	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 59
Batch ID:

Date: 10/14/09 - 10/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 59

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg #59

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	C0804002	T39511-6	5ml	8260	W	<2	20	100x	2	N/A	Y	500 µl/50 ml FV	AL
	03	-7						↓	2			↓	
	04	T39513-4						10x	5			5ml/50ml FV	
	05	-5						↓	7			↓	
	06	-8						100x	7			500 µl/50 ml FV	
	07	T39646-3						↓	5			↓	
	08	-4						10x	6			5ml/50ml FV	BR
	09	Blk				N/A		N/A	N/A			cleanup Blk	
	10	T39296-1		624		<2		5x	1			10ml/50ml FV	
	11	T39771-1						100x	1			500 µl/50ml FV	
BDE	12	-1MS							1			12.5 µl/40ml	
	13	-1MSd							1			↓ ↓	
BE	14	Blk				N/A		N/A	N/A			cleanup Blk	
	15												
	16						34						

AL 10/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7091, 7105, 7110
Batch ID: VC 175 - 176

Date: 10/14/09 - 10/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB 3825
B	Internal Standard 3872
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3824
E	Surrogate Standard 3878
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC168
Calibration Date: 10/8/09

Solvent ID #: RU090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	CC003982	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup Blk	AL
A	83	BFB										40µ/40ml Auto	
BC	84	CC168-20										10µ/50ml FV	
	85	↓ -40										20µ/50ml FV	
BDE	86	BS										12.5µ/40ml	
BE	87	Blk										cleanup Blk	
	88	MB											
	89	T39308-5				<2		1X	1	1			
	90	-1							1	1		AV=1.44	
BDE	91	-1MS							2	2		12.5 µ/40ml	
	92	-1MSd							2	2		↓	
BE	93	Blk				N/A		N/A	N/A	N/A		cleanup Blk	
	94	T39308-2				<2		1X	1				
	95	-3							1				
	96	-4							1				
	97	Blk				N/A		N/A	N/A			cleanup Blk	
	98	T39308-1				<2		5X	2			10ml/50ml FV	
	99	↓ -4						5X	2			↓	
	4000	T39511-9						1X	2				
	01	-8					19	10X	2			5ml/50ml FV	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 59
Batch ID:

Date: 10/14/09 - 10/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 59

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
Solvent: Methanol

See pg #59

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
B/E	C0804002	T39511-6	5ml	8260	W	<2	20	100x	2	N/A	Y	500 µl/50 ml FV	AL
	03	-7						↓	2			↓	
	04	T39513-4						10x	5			5ml/50ml FV	
	05	-5						↓	7			↓	
	06	-8						100x	7			500 µl/50 ml FV	
	07	T39646-3						↓	5			↓	
	08	-4						10x	6			5ml/50ml FV	BR
	09	Blk				N/A		N/A	N/A			cleanup Blk	
	10	T39296-1		624		<2		5x	1			10ml/50ml FV	
	11	T39771-1						100x	1			500 µl/50ml FV	
B/E	12	-1MS							1			12.5 µl/40ml	
	13	-1MSd							1			↓ ↓	
B/E	14	Blk				N/A		N/A	N/A			cleanup Blk	
	15												
	16						34						

AL 10/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.60

Form: MS015

6.7.3 6

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 6978, 6979, 6984
Batch ID: VF3547-3549

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3797, 3799
B	Internal Standard MV3797
C	8260 Standard MV3796, 3791, 3792, 3800
D	8260 BS/MS/MSD MV3789, 3795, 3796, 3789
E	Surrogate Standard MV3799
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F019677	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup Blk	AK
A	78	BFB										Autofind/	
BC	79	CC3504-20										10µ/50ml *	
1	80	↓ -40										20µ/50ml *	
A	81	BFB										Autofind/11:58	
BEBC	82	IC3547-1										1µ/100ml	
* 9/14	83	-2										2µ/100ml	
	84	-5										5µ/100ml	
	85	-20										10µ/50ml	
	86	-40										20µ/50ml	
	87	-100										50µ/50ml	
	88	-200										100µ/50ml	
BE	89	Blk										cleanup Blk	
BDE	90	ICV3547-40										25µ/50ml	
BE	91	Blk										cleanup Blk	
BDE	92	BS										12.5µ/40ml	
BE	93	Blk										cleanup Blk	
	94	MB											
	95	T36882-3				<2		1K	6				
BDE	96	1 -3MS				↓	16	1	7			12.5µ/40ml	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

* New ICAL run as both ccal's failed.

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg#1

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BDE	F019697	T36882-3msd	5ml	8260	W	<2	~~9~~ 16	1X	7	N/A			AW
BE	98	Blk				N/A	17	N/A	N/A			cleanup Blk	
	99	T36882-4				<2	18	5X	7			10ml/50ml	
	700	-2					19	500X	7			100 µl/50 ml	
	01	-5					20	↓	7				
	02	Blk				N/A	21	N/A	N/A			cleanup Blk	
	03	T37033-1				<2	22		1				
BDE	04	-1MS					23		2			12.5 µl/40 ml	
	05	-1MSd					1		2				
BE	06	Blk				N/A	24	N/A	N/A			cleanup Blk	
	07	T37034-1				<2	25	1X	1				
	08	T37032-1					26	~~5X~~ 10X	2			~~10ml~~ 5 ml/50ml AW 9/14/09	
	09	T37246-1					27	1X	4				
	10	T37248-1					28	1	4				
	11	Blk				N/A	29	N/A	N/A				
A	12	BFB					30					Autofind / 15:32	
BE	13	CC3547-40					31					20 µl/50 ml AW	
BDE	14	BS					32					12.5 µl/40 ml	
BE	15	Blk					33					cleanup Blk	
	16	MB					34						

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.2

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg#1

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0197 17	T37375-1	5mL	8260	W	<2	35	1X	1	N/A			AL
	18	-3					36		3				
	19	-5					37		5				
	20	T37007-1					38		6				
BDE	21	-1MS					39		7			12.5 ml/40 ml	
	22	-1MSD					39		7			↓	
BE	23	Blk				N/A	40	N/A	N/A			clean up Blk	
	24	T37007-2				<2	41	1X	6				
	25	T36917-1					42	1	5				
	26	T37007-3					43	5X	6			10 ml/50 ml Fr	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.3

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 6978, 6979, 6984
Batch ID: VF3547-3549

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3797, 3799
B	Internal Standard MV3797
C	8260 Standard MV3796, 3791, 3792, 3800
D	8260 BS/MS/MSD MV3789, 3795, 3796, 3789
E	Surrogate Standard MV3799
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F019677	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup blk	AK
A	78	BFB										Autofind/	
BC	79	CC3504-20										10µ/50ml *	
|	80	↓ -40										20µ/50ml *	
A	81	BFB										Autofind/11:58	
BEDC	82	IC3547-1										1µ/100ml	
|	* 9/14 83	-2										2µ/100ml	
|	84	-5										5µ/100ml	
|	85	-20										10µ/50ml	
|	86	-40										20µ/50ml	
|	87	-100										50µ/50ml	
|	88	-200										100µ/50ml	
BE	89	Blk										cleanup blk	
BDE	90	ICV3547-40										25µ/50ml	
BE	91	Blk										cleanup blk	
BDE	92	BS										12.5µ/40ml	
BE	93	Blk										cleanup blk	
|	94	MB											
|	95	T36882-3				<2		1x	6				
BDE	96	| -3MS				↓	16	1	7			12.5µ/40ml	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

* New ICAL. Run as both one's tested.

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
Solvent: Methanol

See pg#1

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BDE	F019697	T36882-3MSd	5ml	8260	W	<2	~~8~~ 16	1X	7	N/A			AW
BE	98	Blk				N/A	17	N/A	N/A			cleanup Blk	
	99	T36882-4				<2	18	5X	7			10ml/50ml	
	700	-2					19	500X	7			100 µl/50 ml	
	01	-5					20	↓	7				
	02	Blk				N/A	21	N/A	N/A			Cleanup Blk	
	03	T37033-1				<2	22		1				
BDE	04	-1MS					23		2			12.5 µl/40ml	
	05	-1MSd							2				
BE	06	Blk				N/A	24	N/A	N/A			cleanup Blk	
	07	T37034-1				<2	25	1X	1				
	08	T37032-1					26	~~5X~~ 10X	~~N~~ 9/14/09 2			~~10ml~~ 5 ml/50ml AW	
	09	T37246-1					27	1X	4				
	10	T37248-1					28	1	4				
	11	Blk				N/A	29	N/A	N/A				
A	12	BFB					30					Autofind / 15:32	
BE	13	CC3547-40					31					20 µl/50ml AW	
BDE	14	BS					32					12.5 µl/40ml	
BE	15	Blk					33					cleanup Blk	
	16	MB					34						

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.2

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #: See pg#1
Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0197/7	T37375-1	5ml	8260	W	<2	35	1X	1	N/A			AL
	18	-3					36		3				
	19	-5					37		5				
	20	T37007-1					38		6				
BDE	21	-1MS					39		7			12.5 ml/40ml	
	22	-1MSD					39		7			↓	
BE	23	Blk				N/A	40	N/A	N/A			clean up Blk	
	24	T37007-2				<2	41	1X	6				
	25	T36917-1					42		5				
	26	T37007-3					43	5X	6			10ml/50ml FV	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.3

Form: MS015

OP13202

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7103, 7105,
Batch ID: VF 3597 - 3599

Date: 10/12/09 - 10/13/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB 3825
B	Internal Standard 3873
C	8260 Standard 3869, 3862, 3870
D	8260 BS/MS/MSD 3871, 3866, 3859, 3864
E	Surrogate Standard 3877
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method CC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020679	BFB	5ml	8260	N	N/A	1	N/A	N/A	N/A	Y	40 µl/40ml/Avg Sc.	AW
BC	80	CC3547-20										10 µl/50ml FV	
1	81	↓ -40										20 µl/50ml FV	
BDE	82	BS										12.5 µl/40ml	
BE	83	Blk										Cleanup Blk	
	84	MB		8260									
	85	T39172-1		~~624~~ TCLP	AW	12 N		10X	N/A			5ml/50ml FV/TCLP	
	86	T39286-2						10X					
	87	287-2											
BDE	88	-2MS										12.5 µl/40ml	
1	89	-2MSd						↓				↓	
BE	90	Blk		8260		N/A		N/A	N/A			Cleanup Blk	
	91	T39511-1				<2		1R	3			RR @ 500x	
	92	-1MS							2			12.5 µl/40ml	
	93	-1MSd							2			↓	
	94	Blk				N/A		N/A	N/A			Cleanup Blk	
	95	T39414-2				<2		1R	1			RR	
	96	T39511-3							2				
	97	-4					18		3				
	98	-5					19		3				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 68
Batch ID:

Date: 10/12/09 - 10/13/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 68

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg # 68

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F020699	T39511-6	5ml	8260	W		26	1X	3	N/A	N	Run stopped due	AW
	700	-7							3			to archive facility	PP
	01	-8							3				PP
	02	-9							1				
	03	Blue				N/A		N/A	N/A			cleanup Blue	
A	04	BFB										40ul/40ml	
BC	05	CC3547-40										20ul/50ml FV	
BDE	06	BS										12.5ul/40ml	
BE	07	Blue										cleanup Blue	
	08	MB											
	09	T39513-9						1X	1				
	10	T39646-12							1				
	11	T39513-1							11				
BDE	12	-1MS							14			12.5ul/40ml	
	13	-1MSD							14			↓	
BE	14	Blue				N/A		N/A	N/A			cleanup Blue	
	15	T39513-2						1X	4				
	16	-3							4				
	17	-4							4				
	18	-5					37		6				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 68
Batch ID:

Date: 10/12/09 - 10/13/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg #68

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #: See pg # 68
Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BFB	F020719	T39513-6	5ml	8260	W		38	1X	4	N/A	N	RR	AW
	20	-7					39		6				
	21	-8					40		6				
	22	Blk				N/A	41	N/A	N/A			cleanup Blk	
	23	T39646-1					42	1X	6				
	24	-2					43		6				
	25	-3					44		4				
	26	-4					45		4				
	27	-5					46		4				
	28	-6					47		4				
	29	-7					48		4				
	30	Blk				N/A	49	N/A	N/A			cleanup Blk	
	31	↓					50					↓	

AW 10/12/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7/05, 7/01
Batch ID: VF 3599-3600

Date: 10/13/09 - 10/14/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard MV3873
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3884
E	Surrogate Standard MV3877
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC 3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020699	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40µl/40ml/Auto.	AL
BC	700	CC3547-20										10µl/50ml FV	
BDE	01	BS										12.5µl/40ml	
BE	02	Blk										cleanup Blk	
	03											↓	
	04	MB											
	05	T39513-9				<2		N	1				
	06	1646-12							1				
	07	T39513-1							11				
BDE	08	-1MS							14			12.5µl/40ml	
	09	-1MSD							14			↓	
BE	10	Blk				N/A		N/A	N/A			cleanup Blk	
	11	T39513-2				<2		N	4				
	12	-3							4				
	13	-4							4				
	14	-5							6				
	15	-6							4				
	16	-7							6				
	17	-8							6				
	18	Blk				N/A	19	N/A	N/A			cleanup Blk	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 71
Batch ID:

Date: 10/13/09 - 10/14/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 71

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg #71

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0207G	T39646-1	5ml	8260	W	<2	20	1X	6	N/A	Y		AL
	20	-2							6				
	21	-3							4				
	22	Blk				N/A		N/A	N/A			cleanup Blk	
A	23	BFB										40µl/40ml	
BC	24	CC3547-40										20µl/50ml FV	
BDE	25	BS										12.5µl/40ml	
BE	26	Blk										cleanup Blk	
	27	MB											
	28	T39646-4				<2		1X	4				
BDE	29	-4MS							5			12.5µl/40ml	
	30	-4MSd							5			↓	
BE	31	Blk				N/A		N/A	N/A			cleanup Blk	
	32	T39646-~~9~~5	AL 10/13/09			<2		1X	4				
	33	-6							4				
	34	-7							4				
	35	-8							4				
	36	-9							4				
	37	-10							4				
	38	-11					38		4				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

1.72

Form MS015

6.7.7

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ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 71
Batch ID:

Date: 10/13/09 - 10/14/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 71

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
See pg # 71
Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F020739	Blk	5ml	8260	W	N/A	39	1X	4	N/A	Y	Cleanup Blk	
	40	T39521-6				<2			4				
	41	-4							4				
	42	-5							4				
	43	-7							2				
	44	Blk				N/A		N/A	N/A			Cleanup Blk	
	45						45						

10/13/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: OP13245, 7105
Batch ID: VF3601-3602

Date: 10/14/09 - 10/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard MV 3873
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3864
E	Surrogate Standard MV3877
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020746	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 ng/40ml/Auto	AC
BC	47	CC3547-20										10 ng/50ml FV	
	48	-40										20 ng/50ml FV	
BDE	49	BS										12.5 ng/40ml	
BE	50	Blk										clean up Blk	
	51	MB											
	52	OP13245-LB		TCLP				10X				5ml/50ml FV	
	53	T39643-1											
BDE	54	-1MS										12.5 ng/40ml	
	55	-1MSD											
BE	56	Blk				N/A		N/A	N/A			clean up Blk	
	57	T39408-1						10X				5ml/50ml FV	
	58	500-2											
	59	501-2											
	60	529-2											
	61	534-1											
	62	629-1											
	63	T39646-6		8260		<2		1X	5				
BDE	64	-6 MS							6			12.5 ng/40ml	AC 10/14
	65	-6 MSD					18		6				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 75
Batch ID:

Date: 10/14/09 - 10/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 74

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg # 74

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BFB	F020766	Blk	5ml	8260	W	N/A	19	N/A	N/A	N/A	Y	cleanup Blk	AA
	67	T39513-6				<2		1x	5				
	68	T39646-7							5				
	69	-2						5x	7			10ml/50ml FV	
	70	-5						100x	5			500ml/50ml FV	PA
	71	Blk				N/A		N/A	N/A			cleanup Blk	
	72	↓					25						

AA 10/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: OP13245, 7105
Batch ID: VF3601-3602

Date: 10/14/09 - 10/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard MV 3873
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3864
E	Surrogate Standard MV3877
F	GRO Marker N/A
G	GRO Standard N/A
H	GRO LCS N/A

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020746	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40µl/40ml/Auto	AL
BC	47	CC3547-20										10µl/50ml FV	
	48	-40										20µl/50ml FV	
BDE	49	BS										12.5µl/40ml	
BE	50	Blk										cleanup Blk	
	51	MB											
	52	OP13245-LB		TCLP				10X				5ml/50ml FV	
	53	T39643-1											
BDE	54	-1MS										12.5µl/40ml	
	55	-1MSD											
BE	56	Blk				N/A		N/A	N/A			cleanup Blk	
	57	T39408-1						10X				5ml/50ml FV	
	58	500-2											
	59	501-2											
	60	529-2											
	61	534-1											
	62	629-1											
	63	T39646-6		8260		<2		1X	5				
BDE	64	-6MS							6			12.5µl/40ml	AL 10/14
	65	-6MSD					18		6				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 75
Batch ID:

Date: 10/14/09 - 10/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 74

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg # 74

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BB	F020766	Blk	5ml	8260	W	N/A	19	N/A	N/A	N/A	Y	cleanup Blk	AA
	67	T39513-6				<2		1x	5				
	68	T39646-7							5				
	69	-2						5x	7			10ml/50ml FV	
	70	-5						100x	5			500ml/50ml FV	PA
	71	Blk				N/A		N/A	N/A			cleanup Blk	
	72	↓					25						

AA 10/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7/05, 7/12
Batch ID: VF3603 -

Date: 10/15/09 - 10/16/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard MV3873
C	8260 Standard 3869, 3876, 3881, 3880
D	8260 BS/MS/MSD 3871, 3866, 3882, 3864
E	Surrogate Standard MV3877
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020773	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 µl/40ml/Auto	AL
BC	74	CC3547-20										10 µl/50ml FV	
BDE	75	BS										12.5 µl/40ml	
BE	76	Blk										cleanup Blk	
BDE	77	BSd										12.5 µl/40ml	
BE	78	Blk										cleanup Blk	
	79	MB											
	80	T39660-1				<2		N	1				
	81	-3							3				
	82	-5							5				
	83	T39661-1							1				
	84	-3							3				
	85	-5							5				
	86	T39646-4						10	5			5ml/50ml FV	
	87	-5						100	5			500 µl/50ml FV	
	88	T39537-1						N	2				
BDE	89	-1MS							3			12.5 µl/40ml	
	90	-1MSd							3			↓	
BE	91	Blk				N/A		N/A	N/A			cleanup Blk	
	92	T39537-2					19	100	2			500 µl/50ml FV	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg# 76
Batch ID:

Date: 10/1/09 - 10/16/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg# 76

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
Solvent: Methanol

See Pg# 76

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F020793	T39537-3	5ml	8260	W	<2	20	100K	2	N/A	Y	500 µl/50 ml FV	AW
	94	-3						1K	2				
	95	Blu				N/A		N/A	N/A			Cleanup Blu	
	96												
	97						24						

AW 10/15/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13250-MB	J13819.D	1	10/14/09	SC	10/14/09	OP13250	EJ634

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39646-1, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	ND	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.83	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
108-95-2	Phenol	ND	5.0	0.75	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.6	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.2	ug/l	
120-12-7	Anthracene	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.97	ug/l	
86-73-7	Fluorene	ND	5.0	1.3	ug/l	
91-20-3	Naphthalene	ND	5.0	1.1	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.97	ug/l	
129-00-0	Pyrene	ND	5.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	10-66%
4165-62-2	Phenol-d5	32%	10-53%
118-79-6	2,4,6-Tribromophenol	72%	32-128%
4165-60-0	Nitrobenzene-d5	75%	29-115%
321-60-8	2-Fluorobiphenyl	68%	34-113%
1718-51-0	Terphenyl-d14	100%	12-145%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
301-02-0	9-Octadecenamide, (Z)-	15.68	12	ug/l	JN
629-54-9	Hexadecanamide	15.72	7.3	ug/l	JN
638-58-4	Tetradecanamide	15.76	8.5	ug/l	JN
112-84-5	Erucylamide	18.49	9.4	ug/l	JN
	Total TIC, Semi-Volatile		37.2	ug/l	J

Method Blank Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13271-MB	H35552.D	1	10/22/09	SC	10/14/09	OP13271	EH1919

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39646-1, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	ND	0.20	0.072	ug/l	
120-12-7	Anthracene	ND	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.056	ug/l	
218-01-9	Chrysene	ND	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.060	ug/l	
206-44-0	Fluoranthene	ND	0.20	0.046	ug/l	
86-73-7	Fluorene	ND	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.061	ug/l	
91-20-3	Naphthalene	ND	0.20	0.075	ug/l	
85-01-8	Phenanthrene	ND	0.20	0.075	ug/l	
129-00-0	Pyrene	ND	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	93% [a]	17-131%
321-60-8	2-Fluorobiphenyl	183% [a]	15-137%
1718-51-0	Terphenyl-d14	111% [a]	10-160%

(a) Recoveries were adjusted for 10x spiking.

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13250-BS	J13817.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
OP13250-BSD	J13818.D	1	10/14/09	SC	10/14/09	OP13250	EJ634

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39646-1, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	50	41.1	82	37.0	74	10	10-98/30
105-67-9	2,4-Dimethylphenol	50	22.0	44	22.6	45	3	27-87/30
95-48-7	2-Methylphenol	50	28.8	58	29.0	58	1	25-84/30
	3&4-Methylphenol	100	54.9	55	54.7	55	0	25-77/30
108-95-2	Phenol	50	15.6	31	15.7	31	1	10-53/30
83-32-9	Acenaphthene	50	39.3	79	39.3	79	0	41-110/30
208-96-8	Acenaphthylene	50	39.1	78	39.0	78	0	49-113/30
120-12-7	Anthracene	50	43.1	86	43.5	87	1	59-105/30
206-44-0	Fluoranthene	50	42.1	84	48.7	97	15	62-116/30
86-73-7	Fluorene	50	38.8	78	41.1	82	6	47-99/30
91-20-3	Naphthalene	50	29.7	59	30.0	60	1	37-89/30
85-01-8	Phenanthrene	50	43.3	87	43.5	87	0	59-103/30
129-00-0	Pyrene	50	47.0	94	41.2	82	13	58-110/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	43%	44%	10-66%
4165-62-2	Phenol-d5	29%	29%	10-53%
118-79-6	2,4,6-Tribromophenol	89%	86%	32-128%
4165-60-0	Nitrobenzene-d5	71%	70%	29-115%
321-60-8	2-Fluorobiphenyl	81%	77%	34-113%
1718-51-0	Terphenyl-d14	97%	88%	12-145%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13271-BS [a]	H35553.D	1	10/22/09	SC	10/14/09	OP13271	EH1919
OP13271-BSD [a]	H35554.D	1	10/22/09	SC	10/14/09	OP13271	EH1919

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39646-1, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5	3.3	66	3.4	68	3	10-125/30
208-96-8	Acenaphthylene	5	3.2	64	3.2	64	0	10-141/30
120-12-7	Anthracene	5	3.6	72	3.8	76	5	13-139/30
56-55-3	Benzo(a)anthracene	5	3.6	72	3.8	76	5	24-151/30
50-32-8	Benzo(a)pyrene	5	3.1	62	3.1	62	0	36-146/30
205-99-2	Benzo(b)fluoranthene	5	3.7	74	4.2	84	13	27-159/30
207-08-9	Benzo(k)fluoranthene	5	3.7	74	3.7	74	0	26-157/30
218-01-9	Chrysene	5	3.6	72	3.4	68	6	26-146/30
53-70-3	Dibenzo(a,h)anthracene	5	3.5	70	3.3	66	6	23-161/30
206-44-0	Fluoranthene	5	4.1	82	4.5	90	9	20-140/30
86-73-7	Fluorene	5	3.1	62	3.0	60	3	16-126/30
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.5	70	3.3	66	6	25-153/30
91-20-3	Naphthalene	5	3.1	62	3.0	60	3	11-111/30
85-01-8	Phenanthrene	5	3.7	74	3.7	74	0	23-135/30
129-00-0	Pyrene	5	3.4	68	2.7	54	23	27-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	88%	89%	17-131%
321-60-8	2-Fluorobiphenyl	75%	75%	15-137%
1718-51-0	Terphenyl-d14	81%	71%	10-160%

(a) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13250-MS	J13824.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
OP13250-MSD	J13825.D	1	10/14/09	SC	10/14/09	OP13250	EJ634
T39646-8	J13823.D	1	10/14/09	SC	10/14/09	OP13250	EJ634

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39646-1, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9, T39646-10, T39646-11

CAS No.	Compound	T39646-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	10 U		100	ND	0*	ND	0*	nc	10-98/36
105-67-9	2,4-Dimethylphenol	1.9	J	100	54.4	53	57.3	55	5	27-87/26
95-48-7	2-Methylphenol	2.2	J	100	55.2	53	57.2	55	4	25-84/31
	3&4-Methylphenol	4.2	J	200	113	54	117	56	3	25-77/25
108-95-2	Phenol	10.8		100	45.9	35	47.4	37	3	10-53/35
83-32-9	Acenaphthene	5.0 U		100	57.6	58	59.1	59	3	41-110/21
208-96-8	Acenaphthylene	5.0 U		100	57.6	58	59.5	60	3	49-113/23
120-12-7	Anthracene	5.0 U		100	58.9	59	60.8	61	3	59-105/18
206-44-0	Fluoranthene	5.0 U		100	61.3	61*	64.1	64	4	62-116/24
86-73-7	Fluorene	5.0 U		100	55.6	56	56.9	57	2	47-99/22
91-20-3	Naphthalene	2.2	J	100	57.3	55	58.7	57	2	37-89/24
85-01-8	Phenanthrene	5.0 U		100	58.5	59	60.6	61	4	59-103/19
129-00-0	Pyrene	5.0 U		100	66.7	67	65.2	65	2	58-110/25

CAS No.	Surrogate Recoveries	MS	MSD	T39646-8	Limits
367-12-4	2-Fluorophenol	48%	50%	45%	10-66%
4165-62-2	Phenol-d5	42%	44%	32%	10-53%
118-79-6	2,4,6-Tribromophenol	51%	53%	66%	32-128%
4165-60-0	Nitrobenzene-d5	59%	60%	70%	29-115%
321-60-8	2-Fluorobiphenyl	53%	55%	64%	34-113%
1718-51-0	Terphenyl-d14	66%	64%	78%	12-145%

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-DFTPP
Lab File ID: H35543.D
Instrument ID: GCMSH
Injection Date: 10/22/09
Injection Time: 11:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27870	38.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	43827	60.5		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	38197	52.7		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	72445	100.0		Pass
199	5.0 - 9.0% of mass 198	5433	7.5		Pass
275	10.0 - 30.0% of mass 198	12215	16.9		Pass
365	1.0 - 100.0% of mass 198	1283	1.8		Pass
441	Present, but less than mass 443	5444	7.5	(88.3) [b]	Pass
442	40.0 - 100.0% of mass 198	33280	45.9		Pass
443	17.0 - 23.0% of mass 442	6166	8.5	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1919-IC1919	H35545.D	10/22/09	12:02	00:59	Initial cal 1
EH1919-IC1919	H35546.D	10/22/09	12:27	01:24	Initial cal 0.1
EH1919-IC1919	H35547.D	10/22/09	12:54	01:51	Initial cal 0.2
EH1919-IC1919	H35548.D	10/22/09	13:24	02:21	Initial cal 10
EH1919-IC1919	H35549.D	10/22/09	13:50	02:47	Initial cal 5
EH1919-ICC1919	H35550.D	10/22/09	14:54	03:51	Initial cal 2.5
EH1919-ICV1919	H35551.D	10/22/09	15:18	04:15	Initial cal verification 2.5
OP13271-MB	H35552.D	10/22/09	15:49	04:46	Method Blank
OP13271-BS	H35553.D	10/22/09	16:19	05:16	Blank Spike
OP13271-BSD	H35554.D	10/22/09	16:48	05:45	Blank Spike Duplicate
ZZZZZZ	H35555.D	10/22/09	17:13	06:10	(unrelated sample)
ZZZZZZ	H35556.D	10/22/09	17:42	06:39	(unrelated sample)
ZZZZZZ	H35557.D	10/22/09	18:11	07:08	(unrelated sample)
ZZZZZZ	H35558.D	10/22/09	18:40	07:37	(unrelated sample)
ZZZZZZ	H35559.D	10/22/09	19:09	08:06	(unrelated sample)
ZZZZZZ	H35560.D	10/22/09	19:34	08:31	(unrelated sample)
ZZZZZZ	H35561.D	10/22/09	20:03	09:00	(unrelated sample)
ZZZZZZ	H35562.D	10/22/09	20:32	09:29	(unrelated sample)
ZZZZZZ	H35563.D	10/22/09	21:01	09:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample:	EH1919-DFTPP	**Injection Date:**	10/22/09
Lab File ID:	H35543.D	**Injection Time:**	11:03
Instrument ID:	GCMSH		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H35564.D	10/22/09	21:30	10:27	(unrelated sample)
ZZZZZZ	H35566.D	10/22/09	22:27	11:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-DFTPP
Lab File ID: H35579.D
Instrument ID: GCMSH
Injection Date: 10/23/09
Injection Time: 10:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	37381	37.9		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	59141	59.9		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	52288	53.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	98720	100.0		Pass
199	5.0 - 9.0% of mass 198	7541	7.6		Pass
275	10.0 - 30.0% of mass 198	16213	16.4		Pass
365	1.0 - 100.0% of mass 198	1790	1.8		Pass
441	Present, but less than mass 443	6753	6.8	(80.6) [b]	Pass
442	40.0 - 100.0% of mass 198	43176	43.7		Pass
443	17.0 - 23.0% of mass 442	8380	8.5	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1920-ICC1920	H35580.D	10/23/09	11:13	00:21	Initial cal 2.5
EH1920-IC1920	H35581.D	10/23/09	11:39	00:47	Initial cal 1
EH1920-IC1920	H35582.D	10/23/09	12:08	01:16	Initial cal 0.1
EH1920-IC1920	H35583.D	10/23/09	12:40	01:48	Initial cal 0.2
EH1920-IC1920	H35584.D	10/23/09	13:07	02:15	Initial cal 5
EH1920-IC1920	H35585.D	10/23/09	13:31	02:39	Initial cal 10
EH1920-ICV1920	H35586.D	10/23/09	14:13	03:21	Initial cal verification 2.5
T39646-7	H35588.D	10/23/09	15:11	04:19	TW1:1009
T39646-8	H35589.D	10/23/09	15:36	04:44	TW3:1009
T39646-9	H35590.D	10/23/09	16:05	05:13	MW5:1009
T39646-10	H35591.D	10/23/09	16:34	05:42	MW34:1009
T39646-11	H35592.D	10/23/09	17:03	06:11	DUP2
T39646-10	H35593.D	10/23/09	17:31	06:39	MW34:1009
T39646-1	H35594.D	10/23/09	17:56	07:04	MW9:1009
T39646-2	H35595.D	10/23/09	18:28	07:36	MW8:1009
T39646-3	H35596.D	10/23/09	18:57	08:05	MW32:1009
T39646-5	H35598.D	10/23/09	19:54	09:02	DUP
T39646-6	H35599.D	10/23/09	20:23	09:31	MW3:1009
T39646-11	H35600.D	10/23/09	20:45	09:53	DUP2

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-DFTPP
Lab File ID: H35579.D
Instrument ID: GCMSH
Injection Date: 10/23/09
Injection Time: 10:52

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H35601.D	10/23/09	21:13	10:21	(unrelated sample)
ZZZZZZ	H35602.D	10/23/09	21:42	10:50	(unrelated sample)
ZZZZZZ	H35603.D	10/23/09	22:11	11:19	(unrelated sample)
ZZZZZZ	H35604.D	10/23/09	22:40	11:48	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1921-DFTPP
Lab File ID: H35609.D
Instrument ID: GCMSH
Injection Date: 10/26/09
Injection Time: 11:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	30518	36.8		Pass
68	Less than 2.0% of mass 69	335	0.4	(0.66) [a]	Pass
69	Mass 69 relative abundance	51037	61.5		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	42709	51.5		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	82971	100.0		Pass
199	5.0 - 9.0% of mass 198	5941	7.2		Pass
275	10.0 - 30.0% of mass 198	14393	17.3		Pass
365	1.0 - 100.0% of mass 198	1044	1.3		Pass
441	Present, but less than mass 443	5735	6.9	(83.4) [b]	Pass
442	40.0 - 100.0% of mass 198	35488	42.8		Pass
443	17.0 - 23.0% of mass 442	6877	8.3	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1921-ICC1921	H35610.D	10/26/09	12:05	00:17	Initial cal 2.5
EH1921-IC1921	H35611.D	10/26/09	12:39	00:51	Initial cal 1
EH1921-IC1921	H35612.D	10/26/09	13:07	01:19	Initial cal 0.1
EH1921-IC1921	H35613.D	10/26/09	13:36	01:48	Initial cal 0.2
EH1921-IC1921	H35614.D	10/26/09	14:02	02:14	Initial cal 5
EH1921-IC1921	H35615.D	10/26/09	14:31	02:43	Initial cal 10
EH1921-ICV1921	H35616.D	10/26/09	15:01	03:13	Initial cal verification 2.5
T39646-2	H35618.D	10/26/09	16:42	04:54	MW8:1009
T39646-4	H35619.D	10/26/09	17:10	05:22	MW31:1009
T39646-6	H35620.D	10/26/09	17:37	05:49	MW3:1009
ZZZZZZ	H35621.D	10/26/09	18:10	06:22	(unrelated sample)
ZZZZZZ	H35622.D	10/26/09	18:35	06:47	(unrelated sample)
ZZZZZZ	H35623.D	10/26/09	19:03	07:15	(unrelated sample)
ZZZZZZ	H35624.D	10/26/09	19:37	07:49	(unrelated sample)
ZZZZZZ	H35625.D	10/26/09	20:34	08:46	(unrelated sample)
T39646-9	H35626.D	10/26/09	21:05	09:17	MW5:1009

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-DFTPP
Lab File ID: J13332.D
Instrument ID: GCMSJ
Injection Date: 09/23/09
Injection Time: 10:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	273877	40.7		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	279189	41.5		Pass
70	Less than 2.0% of mass 69	1498	0.22	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	316309	47.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	672661	100.0		Pass
199	5.0 - 9.0% of mass 198	45149	6.7		Pass
275	10.0 - 30.0% of mass 198	190080	28.3		Pass
365	1.0 - 100.0% of mass 198	27997	4.2		Pass
441	Present, but less than mass 443	92136	13.7	(81.4) [b]	Pass
442	40.0 - 100.0% of mass 198	588053	87.4		Pass
443	17.0 - 23.0% of mass 442	113253	16.8	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ615-IC615	J13335.D	09/23/09	11:52	01:15	Initial cal 5
EJ615-IC615	J13336.D	09/23/09	12:23	01:46	Initial cal 10
EJ615-IC615	J13337.D	09/23/09	12:53	02:16	Initial cal 25
EJ615-IC615	J13338.D	09/23/09	13:22	02:45	Initial cal 100
EJ615-IC615	J13339.D	09/23/09	13:52	03:15	Initial cal 125
EJ615-ICC615	J13340.D	09/23/09	14:21	03:44	Initial cal 50
EJ615-IC615	J13341.D	09/23/09	14:51	04:14	Initial cal 75
EJ615-ICV615	J13342.D	09/23/09	15:21	04:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-DFTPP
Lab File ID: J13687.D
Instrument ID: GCMSJ
Injection Date: 10/08/09
Injection Time: 10:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	135432	47.0		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	130341	45.2		Pass
70	Less than 2.0% of mass 69	563	0.2	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	144448	50.1		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	288299	100.0		Pass
199	5.0 - 9.0% of mass 198	19921	6.9		Pass
275	10.0 - 30.0% of mass 198	84237	29.2		Pass
365	1.0 - 100.0% of mass 198	14155	4.9		Pass
441	Present, but less than mass 443	42573	14.8	(83.7) [b]	Pass
442	40.0 - 100.0% of mass 198	266517	92.4		Pass
443	17.0 - 23.0% of mass 442	50891	17.7	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ629-CC615	J13688.D	10/08/09	10:50	00:16	Continuing cal 50
EJ629-ICC629	J13689.D	10/08/09	11:20	00:46	Initial cal 50
EJ629-IC629	J13690.D	10/08/09	11:50	01:16	Initial cal 40
EJ629-IC629	J13691.D	10/08/09	12:21	01:47	Initial cal 75
EJ629-IC629	J13692.D	10/08/09	12:51	02:17	Initial cal 5
EJ629-IC629	J13693.D	10/08/09	13:22	02:48	Initial cal 25
EJ629-IC629	J13694.D	10/08/09	13:52	03:18	Initial cal 100
EJ629-ICV629	J13695.D	10/08/09	14:26	03:52	Initial cal verification 50
OP13205-MB	J13696.D	10/08/09	14:56	04:22	Method Blank
OP13205-BS	J13700.D	10/08/09	17:27	06:53	Blank Spike
OP13205-BSD	J13701.D	10/08/09	17:59	07:25	Blank Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ634-DFTPP
Lab File ID: J13810.D
Instrument ID: GCMSJ
Injection Date: 10/14/09
Injection Time: 11:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	141755	47.6		Pass
68	Less than 2.0% of mass 69	1371	0.46	(0.97) [a]	Pass
69	Mass 69 relative abundance	140989	47.4		Pass
70	Less than 2.0% of mass 69	705	0.24	(0.5) [a]	Pass
127	40.0 - 60.0% of mass 198	153045	51.4		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	297493	100.0		Pass
199	5.0 - 9.0% of mass 198	20021	6.7		Pass
275	10.0 - 30.0% of mass 198	83877	28.2		Pass
365	1.0 - 100.0% of mass 198	12878	4.3		Pass
441	Present, but less than mass 443	38397	12.9	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	245760	82.6		Pass
443	17.0 - 23.0% of mass 442	47363	15.9	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ634-CC615	J13811.D	10/14/09	11:18	00:14	Continuing cal 50
EJ634-CC629	J13813.D	10/14/09	12:19	01:15	Continuing cal 50
OP13250-BS	J13817.D	10/14/09	15:11	04:07	Blank Spike
OP13250-BSD	J13818.D	10/14/09	15:41	04:37	Blank Spike Duplicate
OP13250-MB	J13819.D	10/14/09	16:37	05:33	Method Blank
T39646-6	J13822.D	10/14/09	18:07	07:03	MW3:1009
T39646-8	J13823.D	10/14/09	18:37	07:33	TW3:1009
OP13250-MS	J13824.D	10/14/09	19:06	08:02	Matrix Spike
OP13250-MSD	J13825.D	10/14/09	19:35	08:31	Matrix Spike Duplicate
T39646-9	J13826.D	10/14/09	20:04	09:00	MW5:1009
T39646-11	J13827.D	10/14/09	20:34	09:30	DUP2
T39646-7	J13828.D	10/14/09	21:03	09:59	TW1:1009
T39646-10	J13829.D	10/14/09	21:32	10:28	MW34:1009
T39646-1	J13830.D	10/14/09	22:01	10:57	MW9:1009
T39646-2	J13831.D	10/14/09	22:31	11:27	MW8:1009
T39646-4	J13832.D	10/14/09	23:01	11:57	MW31:1009

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ635-DFTPP
Lab File ID: J13836.D
Instrument ID: GCMSJ
Injection Date: 10/15/09
Injection Time: 10:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	153160	44.8		Pass
68	Less than 2.0% of mass 69	1515	0.44	(1.0) [a]	Pass
69	Mass 69 relative abundance	150896	44.1		Pass
70	Less than 2.0% of mass 69	628	0.18	(0.42) [a]	Pass
127	40.0 - 60.0% of mass 198	170973	50.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	342208	100.0		Pass
199	5.0 - 9.0% of mass 198	23057	6.7		Pass
275	10.0 - 30.0% of mass 198	97936	28.6		Pass
365	1.0 - 100.0% of mass 198	15990	4.7		Pass
441	Present, but less than mass 443	47837	14.0	(80.0) [b]	Pass
442	40.0 - 100.0% of mass 198	308096	90.0		Pass
443	17.0 - 23.0% of mass 442	59784	17.5	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ635-CC615	J13837.D	10/15/09	10:48	00:12	Continuing cal 50
EJ635-CC629	J13838.D	10/15/09	11:20	00:44	Continuing cal 50
T39646-5	J13840.D	10/15/09	12:25	01:49	DUP
T39646-3	J13841.D	10/15/09	12:54	02:18	MW32:1009
T39646-3	J13842.D	10/15/09	13:23	02:47	MW32:1009
T39646-5	J13843.D	10/15/09	13:53	03:17	DUP
ZZZZZZ	J13845.D	10/15/09	14:51	04:15	(unrelated sample)
ZZZZZZ	J13846.D	10/15/09	15:21	04:45	(unrelated sample)
T39646-1	J13847.D	10/15/09	15:50	05:14	MW9:1009
T39646-2	J13848.D	10/15/09	16:19	05:43	MW8:1009
T39646-4	J13849.D	10/15/09	16:49	06:13	MW31:1009
T39646-6	J13850.D	10/15/09	17:18	06:42	MW3:1009
T39646-7	J13851.D	10/15/09	17:47	07:11	TW1:1009
T39646-9	J13852.D	10/15/09	18:17	07:41	MW5:1009
T39646-10	J13853.D	10/15/09	18:46	08:10	MW34:1009
ZZZZZZ	J13854.D	10/15/09	19:16	08:40	(unrelated sample)
ZZZZZZ	J13855.D	10/15/09	19:45	09:09	(unrelated sample)
ZZZZZZ	J13857.D	10/15/09	20:44	10:08	(unrelated sample)
ZZZZZZ	J13858.D	10/15/09	21:13	10:37	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ635-DFTPP
Lab File ID: J13836.D
Instrument ID: GCMSJ
Injection Date: 10/15/09
Injection Time: 10:36

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J13859.D	10/15/09	21:42	11:06	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EH1919-ICC1919	**Injection Date:**	10/22/09
Lab File ID:	H35550.D	**Injection Time:**	14:54
Instrument ID:	GCMSH	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	71352	5.66	45874	7.57	47140	9.57	61620	11.09	12651	13.90	6928	16.36
Upper Limit [a]	142704	6.16	91748	8.07	94280	10.07	123240	11.59	25302	14.40	13856	16.86
Lower Limit [b]	35676	5.16	22937	7.07	23570	9.07	30810	10.59	6326	13.40	3464	15.86

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13271-MB	70527	5.66	45925	7.57	38404	9.57	59137	11.09	11146	13.90	3749	16.38
OP13271-BS [c]	103126	5.66	61058	7.57	64984	9.57	89100	11.09	16484	13.90	6746	16.37
OP13271-BSD [c]	105421	5.66	66786	7.54	67957	9.57	91380	11.09	22443	13.90	8757	16.37
ZZZZZZ	71062	5.66	53929	7.57	50423	9.57	70217	11.09	16097	13.90	5259	16.37
ZZZZZZ	79912	5.66	51932	7.57	49237	9.57	74538	11.09	15029	13.90	5782	16.37
ZZZZZZ	84833	5.66	57510	7.57	53957	9.57	74148	11.09	13890	13.90	6081	16.37
ZZZZZZ	92182	5.66	65406	7.57	71113	9.57	81737	11.09	16483	13.90	5496	16.37
ZZZZZZ	107513	5.66	70740	7.57	76858	9.57	89776	11.09	13355	13.90	5552	16.37
ZZZZZZ	96900	5.66	62318	7.57	68350	9.57	82190	11.09	14360	13.90	6150	16.37
ZZZZZZ	94178	5.63	56938	7.57	63710	9.57	71374	11.09	13876	13.90	5750	16.37
ZZZZZZ	78869	5.63	66787	7.54	67764	9.57	83833	11.09	16087	13.90	5085	16.35
ZZZZZZ	93386	5.63	70576	7.54	62797	9.57	98328	11.09	15358	13.90	5142	16.37
ZZZZZZ	89791	5.63	61777	7.54	69059	9.57	88852	11.09	11961	13.90	4468	16.38
ZZZZZZ	73649	5.66	64258	7.57	41911	9.57	73966	11.09	15469	13.90	4929	16.37

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Semivolatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EH1920-ICC1920 **Injection Date:** 10/23/09
Lab File ID: H35580.D **Injection Time:** 11:13
Instrument ID: GCMSH **Method:** SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	99258	5.63	92355	7.54	65780	9.57	81086	11.09	9097	13.90	4085	16.38
Upper Limit [a]	198516	6.13	184710	8.04	131560	10.07	162172	11.59	18194	14.40	8170	16.88
Lower Limit [b]	49629	5.13	46178	7.04	32890	9.07	40543	10.59	4549	13.40	2043	15.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
T39646-7	89429	5.63	88061	7.54	51764	9.57	86210	11.09	10836	13.90	3684	16.37
T39646-8	102446	5.63	80744	7.54	71204	9.57	90555	11.09	13944	13.90	4004	16.38
T39646-9 [c]	98217	5.63	91523	7.54	59842	9.57	103625	11.09	19954*	13.90	4810	16.38
T39646-10 [c]	111903	5.63	359477*	7.74	73219	9.60	61616	11.11	8642	13.90	4297	16.37
T39646-11 [c]	96814	5.63	88464	7.54	67931	9.57	119443	11.09	26997*	13.89	6004	16.37
T39646-10	88107	5.63	69180	7.57	72035	9.57	92496	11.09	14676	13.90	3601	16.40
T39646-1	101956	5.63	375050*	7.69	36621	9.57	64740	11.09	6988	13.90	4397	16.37
T39646-2	83199	5.68	94813	7.60	35438	9.57	90670	11.09	9377	13.90	3580	16.38
T39646-3	88199	5.66	99633	7.60	68056	9.57	103262	11.09	17887	13.92	4819	16.40
T39646-5	88599	5.66	102950	7.60	62056	9.57	112878	11.09	17503	13.90	4346	16.40
T39646-6	79748	5.63	63825	7.54	60715	9.57	85179	11.09	13657	13.90	4104	16.40
T39646-11	70341	5.63	53261	7.54	57262	9.57	62898	11.09	6337	13.94	3170	16.42
ZZZZZZ	102972	5.63	90701	7.54	77689	9.57	93763	11.09	11572	13.92	3829	16.42
ZZZZZZ	86061	5.63	144022	7.57	54265	9.60	41302	11.11	6439	13.89	3852	16.37
ZZZZZZ	73468	5.63	97389	7.60	46390	9.60	58193	11.09	6915	13.90	3557	16.37
ZZZZZZ	83538	5.63	628383*	7.78	29743*	9.60	66271	11.09	7246	13.90	3708	16.38

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EH1921-ICC1921	**Injection Date:**	10/26/09
Lab File ID:	H35610.D	**Injection Time:**	12:05
Instrument ID:	GCMSH	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	83144	5.63	75243	7.54	57620	9.57	61980	11.09	8019	13.94	3605	16.42
Upper Limit [a]	166288	6.13	150486	8.04	115240	10.07	123960	11.59	16038	14.44	7210	16.92
Lower Limit [b]	41572	5.13	37622	7.04	28810	9.07	30990	10.59	4010	13.44	1803	15.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
T39646-2 [c]	53691	5.66	32985*	7.54	46326	9.57	60420	11.09	10448	13.94	3716	16.45
T39646-4	56398	5.66	114638	7.54	36708	9.59	42353	11.09	6334	13.90	2878	16.40
T39646-6 [c]	68213	5.63	64584	7.54	41158	9.57	88087	11.09	16262*	13.90	4126	16.40
ZZZZZZ	69572	5.63	754538*	7.77	56791	9.60	53828	11.11	5274	13.90	2156	16.40
ZZZZZZ	75269	5.63	140861	7.72	49636	9.60	49634	11.11	6655	13.90	4023	16.38
ZZZZZZ	84620	5.66	82684	7.60	42425	9.59	46864	11.09	5899	13.92	4771	16.40
ZZZZZZ	77697	5.63	57025	7.57	42967	9.57	93647	11.09	10193	13.92	4858	16.43
ZZZZZZ	67973	5.63	68335	7.72	54883	9.57	82706	11.09	13906	13.90	3840	16.42
T39646-9	65112	5.66	47361	7.57	57996	9.57	56693	11.09	7349	13.97	4365	16.45

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EJ634-CC615	**Injection Date:**	10/14/09
Lab File ID:	J13811.D	**Injection Time:**	11:18
Instrument ID:	GCMSJ	**Method:**	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	532652	4.70	1861826	5.91	1081202	8.37	1489977	11.15	996370	16.67	488889	19.46
Upper Limit [a]	1065304	5.20	3723652	6.41	2162404	8.87	2979954	11.65	1992740	17.17	977778	19.96
Lower Limit [b]	266326	4.20	930913	5.41	540601	7.87	744989	10.65	498185	16.17	244445	18.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13250-BS	584901	4.70	2344638	5.91	1115741	8.37	1410648	11.14	922073	16.66	539976	19.46
OP13250-BSD	511620	4.70	2055113	5.91	1056681	8.37	1517973	11.14	1334611	16.67	783463	19.47
OP13250-MB	384848	4.70	1384386	5.90	780437	8.36	1058902	11.13	768256	16.65	485975	19.46
T39646-6	536985	4.70	1960685	5.91	1150900	8.37	1875953	11.14	1329052	16.66	743714	19.47
T39646-8	484380	4.70	1736816	5.90	960369	8.36	1344556	11.13	1043674	16.65	680836	19.46
OP13250-MS	507453	4.70	1823817	5.91	1016296	8.36	1426077	11.14	965432	16.66	494767	19.46
OP13250-MSD	459952	4.70	1663146	5.91	930717	8.36	1288190	11.14	941141	16.66	501371	19.46
T39646-9	491349	4.70	1825281	5.90	1000488	8.36	1429359	11.14	1065755	16.65	689463	19.46
T39646-11	530505	4.70	1946117	5.90	1068516	8.36	1535052	11.14	1036698	16.65	616302	19.46
T39646-7	590748	4.70	2139082	5.91	1158995	8.36	1462171	11.14	850658	16.66	514574	19.47
T39646-10	485404	4.70	2038546	5.91	996676	8.36	1400370	11.14	894928	16.65	521138	19.46
T39646-1	519776	4.70	2004716	5.91	1079188	8.36	1627913	11.14	1045675	16.66	485610	19.47
T39646-2	477562	4.70	1954880	5.91	1046506	8.36	1578825	11.14	1257449	16.66	694636	19.47
T39646-4	543219	4.70	1912391	5.91	1030632	8.36	1346976	11.14	849676	16.65	502807	19.46

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EJ635-CC615	**Injection Date:**	10/15/09
Lab File ID:	J13837.D	**Injection Time:**	10:48
Instrument ID:	GCMSJ	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	539415	4.71	1885588	5.92	1052291	8.38	1359423	11.15	968945	16.69	501293	19.48
Upper Limit [a]	1078830	5.21	3771176	6.42	2104582	8.88	2718846	11.65	1937890	17.19	1002586	19.98
Lower Limit [b]	269708	4.21	942794	5.42	526146	7.88	679712	10.65	484473	16.19	250647	18.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
T39646-5	554240	4.71	2145664	5.92	1093529	8.37	1413014	11.14	900268	16.66	548292	19.47
T39646-3	576798	4.71	2152765	5.91	1137588	8.36	1491557	11.14	1169961	16.66	756868	19.47
T39646-3	480896	4.70	1700995	5.91	883883	8.36	1095731	11.14	747262	16.66	507872	19.47
T39646-5	495656	4.70	1738098	5.91	869745	8.36	1053338	11.14	610108	16.66	372500	19.47
ZZZZZZ	460310	4.70	1623858	5.92	980222	8.37	1604552	11.15	934724	16.69	487207	19.48
ZZZZZZ	454228	4.70	1613057	5.91	853156	8.36	1085553	11.14	669531	16.66	427044	19.48
T39646-1	477316	4.70	1921185	5.95	1159080	8.38	1920586	11.17	909615	16.72	527186	19.50
T39646-2	490395	4.70	1739382	5.91	906797	8.36	1182527	11.14	782224	16.66	514143	19.48
T39646-4	334257	4.71	1383485	5.92	780819	8.37	1287438	11.17	849343	16.69	370331	19.48
T39646-6	518277	4.71	1825600	5.91	1033614	8.37	1509414	11.14	1053457	16.67	592544	19.48
T39646-7	474488	4.70	1684529	5.91	934800	8.37	1272197	11.14	805485	16.67	488637	19.48
T39646-9	476685	4.70	1656863	5.91	906275	8.36	1121162	11.14	756081	16.66	503566	19.48
T39646-10	563013	4.71	2040566	5.91	1045813	8.36	1251926	11.14	733223	16.66	461971	19.48
ZZZZZZ	501233	4.70	1755098	5.91	917539	8.36	1124462	11.14	681881	16.66	467256	19.47
ZZZZZZ	517351	4.70	1833636	5.91	1033401	8.36	1501970	11.14	1171419	16.67	692734	19.47
ZZZZZZ	543356	4.70	1880504	5.91	1009726	8.36	1228065	11.14	779139	16.66	552984	19.47
ZZZZZZ	472334	4.71	1681619	5.91	884364	8.36	1094864	11.14	772440	16.66	552717	19.47
ZZZZZZ	493298	4.71	1752857	5.91	907877	8.36	1041920	11.14	657278	16.66	465513	19.47

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
T39646-1	J13830.D	32.0	23.0	48.0	46.0	50.0	76.0
T39646-1	J13847.D	44.0	37.0	53.0	58.0	55.0	43.0
T39646-2	J13831.D	33.0	40.0	65.0	61.0	61.0	81.0
T39646-2	J13848.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
T39646-3	J13842.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
T39646-3	J13841.D	33.0	34.0	33.0	43.0	42.0	45.0
T39646-4	J13832.D	43.0	25.0	49.0	59.0	55.0	74.0
T39646-4	J13849.D	54.0	33.0	69.0	57.0	52.0	88.0
T39646-5	J13843.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
T39646-5	J13840.D	60.0	51.0	52.0	63.0	60.0	74.0
T39646-6	J13822.D	53.0	37.0	77.0	78.0	70.0	90.0
T39646-6	J13850.D	40.0	24.0	54.0	63.0	55.0	75.0
T39646-7	J13828.D	50.0	37.0	71.0	66.0	60.0	85.0
T39646-7	J13851.D	37.0	25.0	52.0	54.0	47.0	63.0
T39646-8	J13823.D	45.0	32.0	66.0	70.0	64.0	78.0
T39646-9	J13826.D	39.0	27.0	66.0	60.0	56.0	76.0
T39646-9	J13852.D	33.0	21.0	43.0	51.0	49.0	67.0
T39646-10	J13829.D	23.0	16.0	66.0	32.0	41.0	87.0
T39646-10	J13853.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
T39646-11	J13827.D	33.0	22.0	71.0	51.0	47.0	93.0
OP13250-BS	J13817.D	43.0	29.0	89.0	71.0	81.0	97.0
OP13250-BSD	J13818.D	44.0	29.0	86.0	70.0	77.0	88.0
OP13250-MB	J13819.D	48.0	32.0	72.0	75.0	68.0	100.0
OP13250-MS	J13824.D	48.0	42.0	51.0	59.0	53.0	66.0
OP13250-MSD	J13825.D	50.0	44.0	53.0	60.0	55.0	64.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-66%
S2 = Phenol-d5	10-53%
S3 = 2,4,6-Tribromophenol	32-128%
S4 = Nitrobenzene-d5	29-115%
S5 = 2-Fluorobiphenyl	34-113%
S6 = Terphenyl-d14	12-145%

(a) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
T39646-1	H35594.D	23.0 [a]	120.0 [a]	103.0 [a]
T39646-2	H35595.D	334.0* [b]	127.0 [a]	197.0* [b]
T39646-2	H35618.D	46.0 [a]	36.0 [a]	44.0 [a]
T39646-3	H35596.D	52.0 [a]	127.0 [a]	156.0 [a]
T39646-4	H35619.D	62.0 [a]	90.0 [a]	146.0 [a]
T39646-5	H35598.D	44.0 [a]	122.0 [a]	160.0 [a]
T39646-6	H35620.D	110.0 [a]	157.0* [c]	160.0 [a]
T39646-6	H35599.D	125.0 [a]	92.0 [a]	132.0 [a]
T39646-7	H35588.D	68.0 [a]	100.0 [a]	97.0 [a]
T39646-8	H35589.D	70.0 [a]	70.0 [a]	101.0 [a]
T39646-9	H35626.D	126.0 [a]	54.0 [a]	93.0 [a]
T39646-9	H35590.D	62.0 [a]	93.0 [a]	100.0 [a]
T39646-10	H35593.D	64.0 [a]	72.0 [a]	132.0 [a]
T39646-10	H35591.D	18.0 [a]	68.0 [a]	86.0 [a]
T39646-11	H35600.D	46.0 [a]	65.0 [a]	132.0 [a]
T39646-11	H35592.D	59.0 [a]	75.0 [a]	93.0 [a]
OP13271-BS	H35553.D	88.0	75.0	81.0
OP13271-BSD	H35554.D	89.0	75.0	71.0
OP13271-MB	H35552.D	93.0 [d]	183.0 [d]	111.0 [d]

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	17-131%
S2 = 2-Fluorobiphenyl	15-137%
S3 = Terphenyl-d14	10-160%

(a) Recovery was adjusted for 10x spiking.
(b) Recovery was adjusted for 10x spiking.Outside control limits due to dilution.
(c) Recovery was adjusted for 10x spiking.Outside of control limits due to matrix interference.
(d) Recoveries were adjusted for 10x spiking.

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1919-ICC1919
Lab FileID: H35550.D

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                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Thu Oct 22 16:11:15 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35546.D    5   =H35549.D    1   =H35545.D    2.5 =H35550.D
 0.2 =H35547.D    10  =H35548.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                            0.000  -1.00
 3)I N-Nitroso-di-n-pr                                            0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.050 0.309 0.283 0.345 0.197 0.442       0.271  49.63
            ---- Quadratic regression ----  Coefficient =  0.9971
              Response Ratio = 0.03248 + 0.21751 *A + 0.01758 *A^2

 6)T Naphthalene       1.714 2.244 1.972 2.183 1.603 2.790       2.084  20.52
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = 0.01335 + 1.78277 *A + 0.39929 *A^2

 7)  2-Methylnaphthale 0.504 1.371 1.806 1.353 0.658 1.498       1.198  42.34
            ---- Quadratic regression ----  Coefficient =  0.9983
              Response Ratio = 0.01575 + 1.28023 *A + 0.08336 *A^2

 8)  1-Methylnaphthale 1.445 2.465 2.225 2.202 1.544 2.752       2.106  24.43
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.02454 + 2.16466 *A + 0.23967 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  3.577 3.585 3.049 3.466 2.587 3.103       3.228  12.12
11)T Acenaphthylene    3.171 2.176 3.162 1.952 2.993 2.411       2.644  20.15
            ---- Quadratic regression ----  Coefficient =  0.9974
              Response Ratio = 0.10788 + 1.80423 *A + 0.22481 *A^2

12)T Acenaphthene      2.509 2.663 2.346 2.440 1.945 2.485       2.398  10.21
13)  Dibenzofuran      3.262 2.014 3.882 2.687 2.681             2.905  24.17
            ---- Quadratic regression ----  Coefficient =  0.9932
              Response Ratio = 0.01223 + 3.59570 *A + -1.28204 *A^2

14)T Fluorene          1.461 1.255 2.461 1.462 1.412 1.293       1.558  28.95
            ---- Quadratic regression ----  Coefficient =  0.9906
              Response Ratio = 0.09183 + 1.26110 *A + -0.00477 *A^2


15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.055 0.163 0.142 0.161 0.068 0.147       0.123  39.31
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.05885 + 0.18162 *A + -0.00129 *A^2

17)  Pentachlorophenol                                            0.000  -1.00
18)T Phenanthrene      2.044 1.932 1.762 1.808 1.759 1.992       1.883   6.54
19)T Anthracene        2.382 2.188 2.104 2.123 2.200 2.060       2.176   5.22
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1919-ICC1919
Lab FileID: H35550.D

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20)T Fluoranthene      0.868 1.168 1.027 1.062 0.811 1.364       1.050  19.22
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = -0.00377 + 0.97628 *A + 0.15571 *A^2


21) I   Chrysene-d12          ----------------ISTD---------------------
22)T Pyrene            8.583 7.179 6.549 5.764 5.511 6.022       6.601  17.26
            ---- Quadratic regression ----  Coefficient =  0.9947
              Response Ratio = -0.20007 + 7.65192 *A + -0.60531 *A^2

23)S Terphenyl-d14     0.718 1.411 0.894 0.924 0.647 1.384       0.996  32.92
            ---- Quadratic regression ----  Coefficient =  0.9938
              Response Ratio = -0.35075 + 1.28854 *A + 0.01066 *A^2

24)T Benzo[a]anthracen 0.865 1.142 1.047 1.280 0.668 1.501       1.084  27.31
            ---- Quadratic regression ----  Coefficient =  0.9976
              Response Ratio = 0.01789 + 0.91033 *A + 0.23122 *A^2

25)T Chrysene          2.181 1.855 1.701 1.627 1.766 1.550       1.780  12.55

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.657 1.254 0.875 0.917 1.165 1.523       1.065  29.09
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.01536 + 0.90697 *A + 0.25037 *A^2

28)T Benzo[k]fluoranth 1.235 2.338 2.039 2.040 0.434 2.392       1.746  43.77
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.07182 + 2.26238 *A + 0.06487 *A^2

29)T Benzo[a]pyrene    0.936 1.518 1.352 1.333 1.247 1.574       1.327  17.10
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = -0.02138 + 1.41779 *A + 0.06696 *A^2

30)T Indeno[1,2,3-cd]p 0.538 1.169 0.905 1.088 0.276 1.165       0.857  43.27
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.04419 + 1.18847 *A + -0.00163 *A^2

31)T Dibenz[a,h]anthra 0.568 0.819 0.655 0.747 0.511 0.839       0.690  19.52
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01947 + 0.79264 *A + 0.02233 *A^2

32)T Benzo[g,h,i]peryl 0.488 1.036 0.865 0.980 0.577 0.973       0.820  28.17
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = -0.03348 + 1.09867 *A + -0.04429 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range

          H10229SP.M        Thu Oct 22 16:11:51 2009
```

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1919-ICV1919
Lab FileID: H35551.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D            Vial: 9
Acq On    : 22 Oct 2009   3:18 pm                   Operator: sheilac
Sample    : icv1919-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1919,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Thu Oct 22 16:12:53 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00	5.66
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	161	-0.03	7.54
5	S	Nitrobenzene-d5		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	T	Naphthalene	2.500	2.464	1.4	149	0.00	7.57
7		2-Methylnaphthalene	2.500	2.605	-4.2	168	0.00	8.47
8		1-Methylnaphthalene	2.500	2.214	11.4	146	0.00	8.55
		----------	AvgRF	CCRF	%Dev	----------		
9	I	Acenaphthene-d10	1.000	1.000	0.0	137	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
11	T	Acenaphthylene	2.500	2.328	6.9	139	0.00	9.43
		----------	AvgRF	CCRF	%Dev	----------		
12	T	Acenaphthene	2.398	2.397	0.0	134	0.00	9.60
13		Dibenzofuran	2.905	2.131	26.6	109	0.00	9.81
		----------	Amount	Calc.	%Drift	----------		
14	T	Fluorene	2.500	2.012	19.5	109	0.00	10.16
		----------	AvgRF	CCRF	%Dev	----------		
15	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.883	1.830	2.8	131	0.00	11.11
19	T	Anthracene	2.176	2.168	0.4	133	0.00	11.17
		----------	Amount	Calc.	%Drift	----------		
20	T	Fluoranthene	2.500	2.614	-4.6	137	0.00	12.31
		----------	AvgRF	CCRF	%Dev	----------		
21	I	Chrysene-d12	1.000	1.000	0.0	91	0.00	13.90

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-ICV1919
Lab FileID: H35551.D

			Amount	Calc.	%Drift			
22	T	Pyrene	2.500	2.855	-14.2	126	0.00	12.53
			AvgRF	CCRF	%Dev			
23	S	Terphenyl-d14		NA				
			Amount	Calc.	%Drift			
24	T	Benzo[a]anthracene	2.500	2.453	1.9	76	0.00	13.89
			AvgRF	CCRF	%Dev			
25	T	Chrysene	1.780	1.954	-9.8	110	0.00	13.94
26	I	Perylene-d12	1.000	1.000	0.0	74	0.00	16.37
			Amount	Calc.	%Drift			
27	T	Benzo[b]fluoranthene	2.500	2.078	16.9	67	0.00	15.64
28	T	Benzo[k]fluoranthene	2.500	2.766	-10.6	88	0.00	15.69
29	T	Benzo[a]pyrene	2.500	2.358	5.7	74	0.00	16.28
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.214	11.4	66	0.02	18.74
31	T	Dibenz[a,h]anthracene	2.500	2.164	13.4	66	0.02	18.72
32	T	Benzo[g,h,i]perylene	2.500	2.194	12.2	67	0.02	19.31

H35550.D H10229SP.M Thu Oct 22 16:15:16 2009

7.7.2

7

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1920-ICC1920
Lab FileID: H35580.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Fri Oct 23 14:18:42 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35582.D    5   =H35584.D    1   =H35581.D    2.5 =H35580.D
 0.2 =H35583.D    10  =H35585.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                          0.000  -1.00
 3)I N-Nitroso-di-n-pr                                          0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.042 0.141 0.206 0.175 0.044 0.184       0.132  54.60
            ---- Quadratic regression ----  Coefficient =  0.9930
              Response Ratio = 0.03039 + 0.11977 *A + 0.00487 *A^2

 6)T Naphthalene       1.570 1.114 1.337 1.338 1.493 1.182       1.339  13.03
 7)  2-Methylnaphthale 0.302 1.273 0.758 0.960 0.379 1.309       0.830  51.99
            ---- Quadratic regression ----  Coefficient =  0.9975
              Response Ratio = -0.06583 + 1.17709 *A + 0.06574 *A^2

 8)  1-Methylnaphthale 1.209 1.680 1.496 1.648 1.232 1.663       1.488  14.63

 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  2.109 2.142 2.332 1.879 1.942 2.855       2.210  16.02
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = 0.34256 + 1.41503 *A + 0.11273 *A^2

11)T Acenaphthylene    2.130 2.763 1.704 2.938 2.126 3.170       2.472  22.99
            ---- Quadratic regression ----  Coefficient =  0.9983
              Response Ratio = -0.04641 + 2.54692 *A + 0.25504 *A^2

12)T Acenaphthene      2.303 2.292 2.244 2.276 2.036 2.240       2.232   4.43
13)  Dibenzofuran      2.312 1.317 2.693 1.824 2.223             2.074  25.26
            ---- Quadratic regression ----  Coefficient =  0.9926
              Response Ratio = 0.01863 + 2.46999 *A + -0.94070 *A^2

14)T Fluorene          1.077 0.904 1.267 1.112 1.124 0.865       1.058  14.16

15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.047 0.169 0.125 0.149 0.057 0.146       0.115  44.35
            ---- Quadratic regression ----  Coefficient =  0.9977
              Response Ratio = -0.09013 + 0.18793 *A + -0.00152 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      1.667 1.959 1.579 1.811 1.545 1.921       1.747  10.06
19)T Anthracene        2.209 1.900 2.110 2.114 2.115 1.707       2.026   9.22
20)T Fluoranthene      0.751 0.988 0.673 0.826 0.573 1.066       0.813  23.06
            ---- Quadratic regression ----  Coefficient =  0.9992
              Response Ratio = -0.02785 + 0.88184 *A + 0.07934 *A^2


21) I   Chrysene-d12          ----------------ISTD---------------------
```

7.7.3

7

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-ICC1920
Lab FileID: H35580.D

```
22)T Pyrene            6.492 7.580 6.472 7.477 4.969 6.443       6.572  14.34
23)S Terphenyl-d14     0.652 1.292 0.852 1.095 0.569 1.488       0.991  36.65
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.18129 + 1.09002 *A + 0.03314 *A^2

24)T Benzo[a]anthracen 0.813 0.886 0.611 1.061 0.798 1.334       0.917  27.33
            ---- Quadratic regression ----  Coefficient =  0.9952
              Response Ratio = 0.02531 + 0.58213 *A + 0.29386 *A^2

25)T Chrysene          1.553 2.027 2.263 1.703 1.560 1.661       1.794  16.02
            ---- Quadratic regression ----  Coefficient =  0.9953
              Response Ratio = -0.04084 + 2.22933 *A + -0.21774 *A^2


26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 1.475 1.189 0.707 0.952 1.117 1.093       1.089  23.39
            ---- Quadratic regression ----  Coefficient =  0.9954
              Response Ratio = -0.04386 + 1.18553 *A + -0.02724 *A^2

28)T Benzo[k]fluoranth 1.300 2.430 1.824 2.130 0.664 2.671       1.837  40.73
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.07190 + 2.19710 *A + 0.20235 *A^2

29)T Benzo[a]pyrene    1.344 1.455 1.172 1.329 0.416 1.579       1.216  34.12
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.03199 + 1.34106 *A + 0.10073 *A^2

30)T Indeno[1,2,3-cd]p 0.131 1.010 0.843 0.948 0.259 1.045       0.706  57.19
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.03362 + 1.00065 *A + 0.02322 *A^2

31)T Dibenz[a,h]anthra 0.305 0.680 0.549 0.683 0.097 0.734       0.508  50.00
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01920 + 0.66468 *A + 0.03045 *A^2

32)T Benzo[g,h,i]peryl 0.515 0.881 0.875 0.881 0.232 0.841       0.704  38.59
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.02141 + 0.94561 *A + -0.03858 *A^2

-------------------------------------------------------------------------------
(#) = Out of Range

          H10239SP.M        Fri Oct 23 14:35:06 2009
```

7.7.3

7

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1920-ICV1920
Lab FileID: H35586.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D            Vial: 8
Acq On    : 23 Oct 2009   2:13 pm                   Operator: sheilac
Sample    : icv1920-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1920,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Fri Oct 23 15:22:10 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	143	0.00	5.63
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	7.54
5	S	Nitrobenzene-d5		----------NA----------				
6	T	Naphthalene	1.339	1.494	-11.6	146	0.00	7.57
		----------	Amount	Calc.	%Drift		----------	
7		2-Methylnaphthalene	2.500	2.346	6.2	141	0.00	8.46
		----------	AvgRF	CCRF	%Dev		----------	
8		1-Methylnaphthalene	1.488	1.734	-16.5	138	0.00	8.55
9	I	Acenaphthene-d10	1.000	1.000	0.0	153	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
11	T	Acenaphthylene	2.500	1.974	21.0	106	0.00	9.41
		----------	AvgRF	CCRF	%Dev		----------	
12	T	Acenaphthene	2.232	2.333	-4.5	156	0.00	9.59
		----------	Amount	Calc.	%Drift		----------	
13		Dibenzofuran	2.500	1.987	20.5	136	0.00	9.81
		----------	AvgRF	CCRF	%Dev		----------	
14	T	Fluorene	1.058	0.875	17.3	120	0.00	10.16
15	I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.747	1.837	-5.2	136	0.00	11.11
19	T	Anthracene	2.026	2.065	-1.9	131	0.00	11.17
		----------	Amount	Calc.	%Drift		----------	
20	T	Fluoranthene	2.500	2.374	5.0	136	0.02	12.31
		----------	AvgRF	CCRF	%Dev		----------	
21	I	Chrysene-d12	1.000	1.000	0.0	182	0.00	13.90
22	T	Pyrene	6.572	5.798	11.8	141	0.00	12.53

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1920-ICV1920
Lab FileID: H35586.D

23	S	Terphenyl-d14	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
24	T	Benzo[a]anthracene	2.500	3.067	-22.7	193	0.00	13.88
25	T	Chrysene	2.500	2.275	9.0	198	0.00	13.94
		----------	AvgRF	CCRF	%Dev	----------		
26	I	Perylene-d12	1.000	1.000	0.0	188	0.00	16.38
		----------	Amount	Calc.	%Drift	----------		
27	T	Benzo[b]fluoranthene	2.500	2.336	6.6	202	0.00	15.66
28	T	Benzo[k]fluoranthene	2.500	2.616	-4.6	205	0.00	15.69
29	T	Benzo[a]pyrene	2.500	2.521	-0.8	193	0.00	16.30
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.366	5.4	180	0.02	18.77
31	T	Dibenz[a,h]anthracene	2.500	2.447	2.1	176	0.02	18.77
32	T	Benzo[g,h,i]perylene	2.500	2.178	12.9	165	0.02	19.34

H35580.D H10239SP.M Fri Oct 23 15:24:28 2009

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1921-ICC1921
Lab FileID: H35610.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Mon Oct 26 16:23:44 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35612.D    5   =H35614.D    1   =H35611.D    2.5 =H35610.D
 0.2 =H35613.D    10  =H35615.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                          0.000  -1.00
 3)I N-Nitroso-di-n-pr                                          0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.017 0.155 0.158 0.187 0.072 0.210       0.133  55.37
            ---- Quadratic regression ----  Coefficient =  0.9955
              Response Ratio = 0.01449 + 0.12532 *A + 0.00656 *A^2

 6)T Naphthalene       1.751 1.421 1.556 1.458 1.431 1.341       1.493   9.65
 7)  2-Methylnaphthale 0.182 1.034 0.634 0.759 0.180 1.258       0.674  65.16
            ---- Quadratic regression ----  Coefficient =  0.9992
              Response Ratio = -0.03792 + 0.78367 *A + 0.19680 *A^2

 8)  1-Methylnaphthale 1.243 1.748 1.282 1.502 1.294 1.752       1.470  15.96
            ---- Quadratic regression ----  Coefficient =  0.9989
              Response Ratio = -0.05003 + 1.68161 *A + 0.03822 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  1.907 1.694 2.084 2.133 2.151 2.787       2.126  17.27
            ---- Quadratic regression ----  Coefficient =  0.9933
              Response Ratio = 0.74433 + 0.89287 *A + 0.14520 *A^2

11)T Acenaphthylene    1.808 2.913 1.895 1.877 1.793 2.749       2.172  23.67
            ---- Quadratic regression ----  Coefficient =  0.9921
              Response Ratio = -0.13966 + 2.71939 *A + 0.04256 *A^2

12)T Acenaphthene      2.126 2.225 2.187 2.362 1.965 2.294       2.193   6.32
13)  Dibenzofuran      2.486 1.606 2.652 1.805 2.622 1.192       2.060  29.70
            ---- Quadratic regression ----  Coefficient =  0.9967
              Response Ratio = 0.06374 + 1.96581 *A + -0.32055 *A^2

14)T Fluorene          1.673 1.002 1.887 1.204 1.433 0.739       1.323  32.27
            ---- Quadratic regression ----  Coefficient =  0.9925
              Response Ratio = 0.05332 + 1.25990 *A + -0.21832 *A^2


15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.058 0.179 0.174 0.162 0.065 0.165       0.134  42.32
            ---- Quadratic regression ----  Coefficient =  0.9992
              Response Ratio = -0.05597 + 0.19005 *A + -0.00091 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      1.542 1.727 1.621 1.598 1.230 1.937       1.609  14.44
19)T Anthracene        2.374 2.079 2.217 2.089 1.974 1.569       2.050  13.32
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1921-ICC1921
Lab FileID: H35610.D

```
20)T Fluoranthene      0.571 0.860 0.699 0.803 0.499 1.057       0.748  27.21
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.00382 + 0.68780 *A + 0.14801 *A^2


21) I   Chrysene-d12          ----------------ISTD---------------------
22)T Pyrene            6.316 7.362 4.992 6.060 4.501 6.928       6.026  18.30
            ---- Quadratic regression ----  Coefficient =  0.9972
              Response Ratio = -0.29339 + 7.39220 *A + -0.12612 *A^2

23)S Terphenyl-d14     0.727 1.363 0.923 1.145 0.685 1.572       1.069  33.23
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.17256 + 1.13882 *A + 0.03599 *A^2

24)T Benzo[a]anthracen 1.655 0.871 0.613 0.831 1.446 1.061       1.079  36.81
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = 0.02027 + 0.66284 *A + 0.15588 *A^2

25)T Chrysene          1.491 2.156 1.979 2.179 1.065 2.112       1.830  24.79
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.04444 + 2.25844 *A + -0.05152 *A^2


26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.908 0.637 0.616 0.628 0.623 0.901       0.719  20.03
            ---- Quadratic regression ----  Coefficient =  0.9990
              Response Ratio = 0.02568 + 0.39997 *A + 0.19541 *A^2

28)T Benzo[k]fluoranth 1.012 2.376 1.928 2.462 1.648 2.904       2.055  32.71
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.00719 + 2.01556 *A + 0.35400 *A^2

29)T Benzo[a]pyrene    0.785 1.315 1.274 1.267 1.179 1.502       1.220  19.54
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = 0.00529 + 1.14826 *A + 0.14000 *A^2

30)T Indeno[1,2,3-cd]p 0.662 1.119 0.931 1.015 0.304 1.280       0.885  39.69
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = -0.02102 + 0.97816 *A + 0.12399 *A^2

31)T Dibenz[a,h]anthra 0.359 0.806 0.667 0.733 0.443 0.942       0.658  33.53
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = -0.01029 + 0.68346 *A + 0.10492 *A^2

32)T Benzo[g,h,i]peryl 0.293 0.901 0.909 0.822 0.479 0.959       0.727  37.72
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01105 + 0.84421 *A + 0.04775 *A^2

-------------------------------------------------------------------------------
(#) = Out of Range

          H10269SP.M        Mon Oct 26 16:24:05 2009
```

7.7.5

7

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1921-ICV1921
Lab FileID: H35616.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D            Vial: 8
Acq On    : 26 Oct 2009   3:01 pm                   Operator: sheilac
Sample    : icv1921-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1921,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Mon Oct 26 16:26:56 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%

       Compound                    AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
-----------------------------------------------------------------------------
1 I   1,4-Dichlorobenzene-d4       1.000   1.000      0.0  145   0.00    5.63
2 I   N-Nitrosodimethylamine              ----------NA----------
3 I   N-Nitroso-di-n-propylamin           ----------NA----------

4 I   Naphthalene-d8               1.000   1.000      0.0  153   0.00    7.54
5 S   Nitrobenzene-d5                     ----------NA----------
6 T   Naphthalene                  1.493   1.249     16.3  131   0.00    7.57

          ----------------------- Amount  Calc.    %Drift   -------------
7     2-Methylnaphthalene          2.500   2.039     18.4  134   0.00    8.47
8     1-Methylnaphthalene          2.500   2.021     19.2  132   0.00    8.55


          ----------------------- AvgRF   CCRF      %Dev   --------------
9 I   Acenaphthene-d10             1.000   1.000      0.0  141   0.00    9.57
10 S  2-Fluorobiphenyl                    ----------NA----------

          ----------------------- Amount  Calc.    %Drift   -------------
11 T  Acenaphthylene               2.500   1.917     23.3  141   0.00    9.41

          ----------------------- AvgRF   CCRF      %Dev   --------------
12 T  Acenaphthene                 2.193   2.215     -1.0  132   0.00    9.59

          ----------------------- Amount  Calc.    %Drift   -------------
13    Dibenzofuran                 2.500   2.171     13.2  130   0.00    9.81
14 T  Fluorene                     2.500   2.023     19.1  119   0.00   10.16


          ----------------------- AvgRF   CCRF      %Dev   --------------
15 I  Phenanthrene-d10             1.000   1.000      0.0  124   0.00   11.09
16 S  2,4,6-Tribromophenol                ----------NA----------
17    Pentachlorophenol                   ----------NA----------
18 T  Phenanthrene                 1.609   1.566      2.7  122   0.00   11.11
19 T  Anthracene                   2.050   2.180     -6.3  129   0.00   11.19

          ----------------------- Amount  Calc.    %Drift   -------------
20 T  Fluoranthene                 2.500   2.785    -11.4  135   0.00   12.31


          ----------------------- AvgRF   CCRF      %Dev   --------------
21 I  Chrysene-d12                 1.000   1.000      0.0  116   0.00   13.94
```

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1921-ICV1921
Lab FileID: H35616.D

			Amount	Calc.	%Drift			
22	T	Pyrene	2.500	2.308	7.7	120	0.02	12.54
			AvgRF	CCRF	%Dev			
23	S	Terphenyl-d14		NA				
			Amount	Calc.	%Drift			
24	T	Benzo[a]anthracene	2.500	1.994	20.2	87	0.00	13.92
25	T	Chrysene	2.500	2.827	-13.1	130	0.02	13.97
			AvgRF	CCRF	%Dev			
26	I	Perylene-d12	1.000	1.000	0.0	130	0.02	16.44
			Amount	Calc.	%Drift			
27	T	Benzo[b]fluoranthene	2.500	2.347	6.1	108	0.03	15.71
28	T	Benzo[k]fluoranthene	2.500	2.728	-9.1	129	0.03	15.76
29	T	Benzo[a]pyrene	2.500	2.315	7.4	118	0.02	16.35
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.466	1.4	129	0.05	18.87
31	T	Dibenz[a,h]anthracene	2.500	2.476	1.0	128	0.07	18.87
32	T	Benzo[g,h,i]perylene	2.500	2.577	-3.1	140	0.03	19.43

H35610.D H10269SP.M Mon Oct 26 16:28:58 2009

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ615-ICC615
Lab FileID: J13340.D

Response Factor Report AGC-VOA-MSJ

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

Calibration Files
25 =j13337.D 50 =j13340.D 75 =j13341.D 100 =j13338.D
10 =j13336.D 5 =j13335.D 125 =j13339.D =

Compound	25	50	75	100	10	5	125	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------		
2) n-Nitrosodim	0.678	0.701	0.713	0.667	0.657	0.662	0.628	0.672	4.21
3) Pyridine	1.145	1.312	1.323	1.182	1.102	1.103	1.138	1.186	7.89
4) 2-Fluorophen	1.224	1.352	1.350	1.276	1.180	1.200	1.205	1.255	5.71
5) Phenol-d5 (S	1.593	1.755	1.739	1.494	1.468	1.508	1.425	1.569	8.42
6) Phenol	1.737	1.904	1.892	1.600	1.594	1.635	1.523	1.698	8.89
7) Aniline	1.729	1.930	1.841	1.723	1.540	1.496		1.710	9.83
8) bis(2-Chloro	1.694	1.749	1.827	1.566	1.620	1.637	1.558	1.664	5.91
9) 2-Chlorophen	1.308	1.403	1.387	1.332	1.247	1.257	1.284	1.317	4.63
10) 1,3-Dichloro	1.466	1.595	1.577	1.514	1.416	1.430	1.444	1.492	4.81
11) 1,4-Dichloro	1.572	1.697	1.668	1.634	1.510	1.562	1.561	1.601	4.19
12) Benzyl Alcoh	0.908	1.000	0.999	0.945	0.818	0.817	0.936	0.918	8.30
13) 1,2-Dichloro	1.459	1.622	1.611	1.565	1.380	1.367	1.506	1.501	6.94
14) 2-Methylphen	1.188	1.241	1.236	1.203	1.143	1.126	1.193	1.190	3.65
15) bis(2-chloro	2.192	2.163	2.165	1.964	2.223	2.155	1.890	2.108	6.04
16) 4-Methylphen	1.209	1.300	1.291	1.337	1.157	1.153	1.367	1.259	6.84
17) m+p-Cresols	1.209	1.300	1.291	1.337	1.157	1.153	1.367	1.259	6.84
18) n-Nitroso-di	1.132	1.182	1.185	1.151	1.105	1.076	1.164	1.142	3.53
19) Hexachloroet	0.571	0.626	0.618	0.609	0.542	0.543	0.578	0.584	5.94
20) I Naphthalene-d8	----------	----------	----------	ISTD	----------	----------	----------		
21) Nitrobenzene	0.412	0.446	0.447	0.423	0.397	0.403	0.407	0.419	4.85
22) Nitrobenzene	0.409	0.436	0.438	0.415	0.394	0.395	0.397	0.412	4.52
23) Isophorone	0.751	0.786	0.796	0.762	0.732	0.726	0.741	0.756	3.52
24) 2-Nitropheno	0.176	0.200	0.198	0.215	0.155	0.163	0.219	0.189	13.24
25) 2,4-Dimethyl	0.300	0.350	0.352	0.326	0.280	0.267	0.317	0.313	10.46
26) bis(2-Chloro	0.412	0.437	0.442	0.426	0.394	0.397	0.410	0.417	4.48
27) Benzoic Acid	0.140	0.194	0.177	0.188	0.087	0.104	0.199	0.156	29.33
---- Quadratic regression ---- Coefficient = 0.9968									
Response Ratio = -0.01531 + 0.17515 *A + 0.00874 *A^2									
28) 2,4-Dichloro	0.258	0.294	0.295	0.306	0.234	0.239	0.304	0.276	11.26
29) 1,2,4-Trichl	0.316	0.355	0.353	0.353	0.297	0.299	0.347	0.332	7.98
30) Naphthalene	1.052	1.167	1.171	1.129	0.996	1.011	1.100	1.089	6.55
31) 4-Chloroanil	0.310	0.409	0.407	0.400	0.310	0.303	0.401	0.363	14.27
---- Linear regression ---- Coefficient = 0.9982									
Response Ratio = -0.02549 + 0.41205 *A									
32) Hexachlorobu	0.199	0.220	0.222	0.223	0.189	0.188	0.215	0.208	7.47
33) 4-Chloro-3-m	0.292	0.332	0.340	0.342	0.264	0.269	0.340	0.311	11.26
34) 2-Methylnaph	0.640	0.719	0.716	0.702	0.597	0.598	0.687	0.666	8.06
35) 1-Methylnaph	0.667	0.753	0.748	0.735	0.627	0.628	0.722	0.697	7.95
36) I Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------		
37) Hexachlorocy	0.113	0.209	0.194	0.199	0.028	0.047	0.216	0.144	55.79
---- Quadratic regression ---- Coefficient = 0.9945									

```
                Response Ratio = -0.03402 + 0.20157 *A + 0.00717 *A^2

38) 2,4,6-Trichl 0.321 0.355 0.365 0.364 0.274 0.292 0.365       0.334  11.44
39) 2,4,5-Trichl 0.351 0.387 0.402 0.419 0.277 0.295 0.424       0.365  16.28
             ---- Linear regression ----  Coefficient =  0.9990
                Response Ratio = -0.04071 + 0.43274 *A

40) 2-Fluorobiph 1.525 1.667 1.697 1.651 1.363 1.387 1.617       1.558   8.76
41) 2-Chloronaph 1.095 1.182 1.197 1.162 1.006 1.035 1.147       1.118   6.66
42) 2-Nitroanili 0.382 0.398 0.408 0.371 0.349 0.361 0.361       0.376   5.71
43) Dimethylphth 1.332 1.405 1.445 1.335 1.296 1.279 1.310       1.343   4.49
44) Acenaphthyle 1.897 2.015 2.060 1.895 1.751 1.763 1.880       1.894   6.09
45) 2,6-Dinitrot 0.305 0.328 0.340 0.325 0.285 0.288 0.340       0.316   7.32
46) 3-Nitroanili 0.222 0.295 0.305 0.298 0.222 0.226 0.291       0.266  14.93
             ---- Quadratic regression ----  Coefficient =  0.9976
                Response Ratio = -0.02988 + 0.32934 *A + -0.00850 *A^2

47) Acenaphthene 1.099 1.176 1.196 1.136 1.032 1.027 1.125       1.113   5.88
48) 2,4-Dinitrop 0.058 0.104 0.119 0.122 0.005 0.014 0.130       0.079  67.07
             ---- Quadratic regression ----  Coefficient =  0.9975
                Response Ratio = -0.02255 + 0.10885 *A + 0.00924 *A^2

49) 4-Nitropheno 0.153 0.175 0.182 0.196 0.157 0.113 0.180       0.165  16.66
             ---- Quadratic regression ----  Coefficient =  0.9954
                Response Ratio = -0.01653 + 0.19999 *A + -0.00333 *A^2

50) Dibenzofuran 1.553 1.690 1.731 1.646 1.435 1.436 1.639       1.590   7.47
51) 2,4-Dinitrot 0.375 0.407 0.427 0.388 0.336 0.337 0.380       0.378   8.89
52) 2,3,4,6-Tetr 0.259 0.301 0.309 0.309 0.205 0.217 0.313       0.273  17.02
             ---- Quadratic regression ----  Coefficient =  0.9996
                Response Ratio = -0.02272 + 0.31365 *A + 0.00221 *A^2

53) Diethylphtha 1.364 1.467 1.523 1.414 1.308 1.279 1.402       1.394   6.14
54) Fluorene     1.328 1.476 1.542 1.479 1.210 1.206 1.457       1.386   9.90
55) 4-Chlorophen 0.637 0.712 0.749 0.762 0.586 0.578 0.770       0.685  12.14
             ---- Quadratic regression ----  Coefficient =  0.9997
                Response Ratio = -0.03593 + 0.72331 *A + 0.01949 *A^2

56) 4-Nitroanili 0.206 0.241 0.257 0.259 0.186 0.193 0.242       0.226  13.56
             ---- Quadratic regression ----  Coefficient =  0.9970
                Response Ratio = -0.02565 + 0.28335 *A + -0.00912 *A^2


57) I   Phenanthrene-d10      ----------------ISTD---------------------
58) 1,2-Diphenyl 0.970 1.046 1.028 1.115 0.941 0.952 1.068       1.017   6.39
59) 4,6-Dinitro- 0.098 0.128 0.136 0.138 0.056 0.060 0.141       0.108  34.49
             ---- Linear regression ----  Coefficient =  0.9987
                Response Ratio = -0.02146 + 0.14711 *A

60) Diphenylamin 0.711 0.788 0.777 0.800 0.673 0.692 0.799       0.749   7.30
61) n-Nitrosodip 0.711 0.788 0.777 0.800 0.673 0.692 0.799       0.749   7.30
62) 2,4,6-Tribro 0.120 0.142 0.145 0.164 0.100 0.104 0.167       0.135  20.17
             ---- Linear regression ----  Coefficient =  0.9946
                Response Ratio = -0.04777 + 0.17040 *A

63) 4-Bromopheny 0.239 0.265 0.265 0.273 0.227 0.229 0.269       0.253   7.91
64) Hexachlorobe 0.263 0.283 0.287 0.292 0.258 0.256 0.288       0.275   5.69
65) Pentachlorop 0.071 0.095 0.106 0.118             0.121       0.102  19.75
             ---- Quadratic regression ----  Coefficient =  0.9991
                Response Ratio = -0.02898 + 0.11149 *A + 0.00632 *A^2
```

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICC615
Lab FileID: J13340.D

```
66) Phenanthrene 1.143 1.240 1.269 1.263 1.099 1.092 1.237       1.192   6.54
67) Anthracene   1.095 1.191 1.243 1.218 1.045 1.041 1.200       1.147   7.41
68) Carbazole    0.837 0.954 1.016 0.974 0.855 0.865 0.966       0.924   7.59
69) Di-n-butylph 1.379 1.439 1.568 1.488 1.389 1.286 1.468       1.431   6.32
70) Fluoranthene 1.034 1.068 1.211 1.119 1.029 0.992 1.111       1.080   6.78

71) I   Chrysene-d12          ----------------ISTD---------------------
72) Benzidine    0.119 0.389 0.498       0.228 0.173             0.281  56.15
            ---- Quadratic regression ----  Coefficient =  0.9908
              Response Ratio = 0.00905 + 0.04030 *A + 0.24552 *A^2

73) Pyrene       1.473 1.686 1.394 1.390 1.294 1.302 1.327       1.409   9.72
74) Terphenyl-d1 0.968 1.117 0.977 0.989 0.845 0.836 0.953       0.955   9.98
75) Butylbenzylp 0.657 0.683 0.662 0.626 0.602 0.570 0.594       0.628   6.60
76) Benzo(a)anth 1.100 1.161 1.160 1.167 1.070 1.111 1.108       1.125   3.34
77) 3,3'-Dichlor 0.188 0.223 0.268 0.333 0.284 0.287 0.348       0.276  20.58
            ---- Quadratic regression ----  Coefficient =  0.9963
              Response Ratio = 0.01656 + 0.13876 *A + 0.06756 *A^2

78) Chrysene     0.959 0.996 1.002 0.939 0.933 0.939 0.873       0.949   4.56
79) bis(2-Ethylh 0.882 0.830 0.894 0.860 0.856 0.767 0.815       0.843   5.13

80) I   Perylene-d12          ----------------ISTD---------------------
81) Di-n-octylph 1.888 1.943 2.022 2.213 1.528 1.539 2.278       1.916  15.44
            ---- Linear regression ----  Coefficient =  0.9959
              Response Ratio = -0.25570 + 2.29892 *A

82) Benzo(b)fluo 1.227 1.357 1.411 1.488 1.111 1.201 1.458       1.322  10.85
83) Benzo(k)fluo 1.212 1.306 1.258 1.224 1.113 1.128 1.211       1.207   5.63
84) Benzo(a)pyre 1.074 1.173 1.200 1.230 0.994 1.027 1.202       1.129   8.42
85) Indeno(1,2,3 0.962 1.053 1.093 0.949 0.924 0.863 0.819       0.952  10.22
86) Dibenz(a,h)a 0.782 0.868 0.912 0.818 0.745 0.693 0.712       0.790  10.23
87) Benzo(g,h,i) 0.759 0.814 0.814 0.663 0.753 0.686 0.544       0.719  13.38
-------------------------------------------------------------------------------
(#) = Out of Range

          ej615mg.m         Wed Sep 23 15:17:07 2009
```

7.2.7

7

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ615-ICV615
Lab FileID: J13342.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej615\j13342.D Vial: 11
Acq On : 23 Sep 2009 3:21 pm Operator: sheilac
Sample : icv615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej615,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Wed Sep 23 15:14:24 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	4.88
2		n-Nitrosodimethylamine	0.672	0.742	-10.4	88	0.01	2.65
3		Pyridine	1.186	1.220	-2.9	77	0.02	2.64
4	S	2-Fluorophenol (SURR)		----------NA----------				
5	S	Phenol-d5 (SURR)		----------NA----------				
6	C	Phenol	1.698	1.634	3.8	71	0.02	4.69
7		Aniline	1.710	1.148	32.9	49	0.00	4.63
8		bis(2-Chloroethyl)ether	1.664	1.506	9.5	71	0.00	4.67
9		2-Chlorophenol	1.317	1.288	2.2	76	0.00	4.75
10		1,3-Dichlorobenzene	1.492	1.433	4.0	74	0.00	4.84
11	C	1,4-Dichlorobenzene	1.601	1.501	6.2	73	0.00	4.90
12		Benzyl Alcohol	0.918	0.917	0.1	76	0.00	5.03
13		1,2-Dichlorobenzene	1.501	1.450	3.4	74	0.00	5.03
14		2-Methylphenol	1.190	1.167	1.9	78	0.01	5.17
15		bis(2-chloroisopropyl)eth	2.108	2.030	3.7	78	0.00	5.13
16		4-Methylphenol	1.259	1.244	11.9	80	0.00	5.30
17		m+p-Cresols	1.259	1.244	11.9	80	0.00	5.30
18	P	n-Nitroso-di-n-propylamin	1.142	1.065	6.7	75	-0.01	5.26
19		Hexachloroethane	0.584	0.566	3.1	75	0.00	5.33
20	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	6.12
21	S	Nitrobenzene-d5 (SURR)		----------NA----------				
22		Nitrobenzene	0.412	0.385	6.6	73	-0.01	5.40
23		Isophorone	0.756	0.715	5.4	75	0.00	5.64
24	C	2-Nitrophenol	0.189	0.178	5.8	73	0.00	5.72
25		2,4-Dimethylphenol	0.313	0.279	10.9	66	0.00	5.79
26		bis(2-Chloroethoxy)methan	0.417	0.395	5.3	75	-0.01	5.85
		----------	Amount	Calc.	%Drift		----------	
27		Benzoic Acid	50.000	45.345	9.3	66	-0.03	5.98
		----------	AvgRF	CCRF	%Dev		----------	
28	C	2,4-Dichlorophenol	0.276	0.261	5.4	73	0.00	6.01
29		1,2,4-Trichlorobenzene	0.332	0.300	9.6	70	0.00	6.06
30		Naphthalene	1.089	1.049	3.7	74	0.00	6.15
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	23.422	53.2	35	0.00	6.22
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.196	5.8	73	0.00	6.29
33	C	4-Chloro-3-methylphenol	0.311	0.295	5.1	73	0.00	6.86

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICV615
Lab FileID: J13342.D

34		2-Methylnaphthalene	0.666	0.662	0.6	76	0.00	7.00
35		1-Methylnaphthalene	0.697	0.647	7.2	71	0.00	7.14
36	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00	8.62
		----------	Amount	Calc.	%Drift		----------	
37	P	Hexachlorocyclopentadiene	50.000	43.143	13.7	56	0.00	7.24
		----------	AvgRF	CCRF	%Dev		----------	
38	C	2,4,6-Trichlorophenol	0.334	0.341	-2.1	73	0.00	7.44
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	50.000	42.862	14.3	66	0.00	7.53
		----------	AvgRF	CCRF	%Dev		----------	
40	S	2-Fluorobiphenyl (SURR)		----------NA----------				
41		2-Chloronaphthalene	1.118	1.121	-0.3	72	0.00	7.71
42		2-Nitroaniline	0.376	0.387	-2.9	74	-0.01	7.90
43		Dimethylphthalate	1.343	1.350	-0.5	73	-0.02	8.22
44		Acenaphthylene	1.894	1.937	-2.3	73	-0.01	8.38
45		2,6-Dinitrotoluene	0.316	0.305	3.5	71	-0.02	8.30
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	50.000	39.803	20.4	60	-0.02	8.60
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.097	1.4	71	-0.01	8.68
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	50.000	39.851	20.3	55	-0.01	8.79
49	P	4-Nitrophenol	50.000	45.272	9.5	71	0.00	9.10
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.568	1.4	70	-0.01	8.99
51		2,4-Dinitrotoluene	0.378	0.377	0.3	70	-0.02	9.01
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	50.000	45.114	9.8	67	0.00	9.26
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.374	1.4	71	-0.02	9.47
54		Fluorene	1.386	1.330	4.0	68	-0.01	9.61
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	50.000	45.072	9.9	68	-0.01	9.63
56		4-Nitroaniline	50.000	38.482	23.0	60	-0.04	9.71
		----------	AvgRF	CCRF	%Dev		----------	
57	I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00	11.43
58		1,2-Diphenylhydrazine	1.017	0.993	2.4	71	-0.01	9.93
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	50.000	44.289	11.4	66	-0.03	9.78
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.609	18.7	58	-0.02	9.87
61	C	n-Nitrosodiphenylamine	0.749	0.609	18.7	58	-0.02	9.87
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICV615
Lab FileID: J13342.D

```
62 S   2,4,6-Tribromophenol (SUR          ----------NA----------

           ----------------------- AvgRF   CCRF      %Dev   --------------
63     4-Bromophenyl-phenylether   0.253   0.245      3.2   69  -0.01   10.56
64     Hexachlorobenzene           0.275   0.269      2.2   71  -0.02   10.69

           ----------------------- Amount  Calc.    %Drift   -------------
65 C   Pentachlorophenol          50.000  47.078      5.8   70   0.00   11.13

           ----------------------- AvgRF   CCRF      %Dev   --------------
66     Phenanthrene                1.192   1.157      2.9   70  -0.01   11.47
67     Anthracene                  1.147   1.122      2.2   70  -0.01   11.58
68     Carbazole                   0.924   0.812     12.1   63   0.00   11.95
69     Di-n-butylphthalate         1.431   1.445     -1.0   75   0.00   12.76
70 C   Fluoranthene                1.080   1.154     -6.9   80  -0.01   13.92

71 I   Chrysene-d12                1.000   1.000      0.0  106  -0.01   16.95

           ----------------------- Amount  Calc.    %Drift   -------------
72     Benzidine                          ----------NA----------

           ----------------------- AvgRF   CCRF      %Dev   --------------
73     Pyrene                      1.409   1.259     10.6   79  -0.01   14.38
74 S   Terphenyl-d14                      ----------NA----------
75     Butylbenzylphthalate        0.628   0.613      2.4   95  -0.01   15.88
76     Benzo(a)anthracene          1.125   1.092      2.9   99   0.00   16.93

           ----------------------- Amount  Calc.    %Drift   -------------
77     3,3'-Dichlorobenzidine     50.000  52.996     -6.0  121  -0.01   16.92

           ----------------------- AvgRF   CCRF      %Dev   --------------
78     Chrysene                    0.949   0.933      1.7   99  -0.02   17.00
79     bis(2-Ethylhexyl)phthalat   0.843   0.805      4.5  102   0.00   17.14

80 I   Perylene-d12                1.000   1.000      0.0  126   0.00   19.75

           ----------------------- Amount  Calc.    %Drift   -------------
81 C   Di-n-octylphthalate        50.000  41.480     17.0  111  -0.01   18.43

           ----------------------- AvgRF   CCRF      %Dev   --------------
82     Benzo(b)fluoranthene        1.322   1.255      5.1  117  -0.01   19.06
83     Benzo(k)fluoranthene        1.207   1.200      0.6  116  -0.01   19.11
84 C   Benzo(a)pyrene              1.129   0.977     13.5  105  -0.01   19.65
85     Indeno(1,2,3-cd)pyrene      0.952   1.080    -13.4  130  -0.01   21.93
86     Dibenz(a,h)anthracene       0.790   0.893    -13.0  130  -0.02   21.96
87     Benzo(g,h,i)perylene        0.719   0.834    -16.0  130  -0.01   22.55
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------


    j13340.D   ej615mg.m        Wed Sep 23 16:53:38 2009
```

7.7.8

7

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ629-ICC629
Lab FileID: J13689.D

Response Factor Report AGC-VOA-MSJ

```
Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration

Calibration Files
25  =j13693.D    40  =j13690.D    50  =j13689.D    75  =j13691.D
100 =j13694.D        =                =
```

Compound	25	40	50	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------	----------	ISTD	----------	----------		
2) Pyridine						0.000	-1.00
3)S 2-Fluorophenol (S	1.436	1.530	1.520	1.562	1.650	1.540	5.01
4) Benzenethiol	1.520	1.561	1.515	1.496	1.611	1.540	2.98
5)S Phenol-d5 (SURR)	1.796	1.920	1.932	2.003	2.144	1.959	6.50
6)C Phenol						0.000	-1.00
7) 1,3-Dichlorobenze						0.000	-1.00
8)C 1,4-Dichlorobenze						0.000	-1.00
9) 1,2-Dichlorobenze						0.000	-1.00
10) Indene						0.000	-1.00
11) 2-Methylphenol						0.000	-1.00
12) 4-Methylphenol						0.000	-1.00
13) m+p-Cresols						0.000	-1.00
14) I Naphthalene-d8	----------	----------	ISTD	----------	----------		
15)S Nitrobenzene-d5 (	0.470	0.495	0.495	0.504	0.525	0.498	3.99
16) 2,4-Dimethylpheno						0.000	-1.00
17) Naphthalene						0.000	-1.00
18) Quinoline						0.000	-1.00
19) Resorcinol	0.254	0.280	0.290	0.293	0.322	0.288	8.50
---- Linear regression ---- Coefficient = 0.9951							
Response Ratio = -0.03902 + 0.32709 *A							
20) 1-Methylnaphthale						0.000	-1.00
21) I Acenaphthene-d10	----------	----------	ISTD	----------	----------		
22)S 2-Fluorobiphenyl	1.506	1.619	1.635	1.664	1.776	1.640	5.90
23) Dimethylphthalate						0.000	-1.00
24)P 2,4-Dinitrophenol						0.000	-1.00
25)P 4-Nitrophenol						0.000	-1.00
26) Diethylphthalate						0.000	-1.00
27) I Phenanthrene-d10	----------	----------	ISTD	----------	----------		
28)S 2,4,6-Tribromophe	0.112	0.127	0.136	0.141	0.163	0.136	13.76
29) Phenanthrene						0.000	-1.00
30) Anthracene						0.000	-1.00
31) Di-n-butylphthala						0.000	-1.00
32)C Fluoranthene						0.000	-1.00
33) I Chrysene-d12	----------	----------	ISTD	----------	----------		
34) Pyrene						0.000	-1.00
35)S Terphenyl-d14	1.092	1.231	1.246	1.183	1.382	1.227	8.62
36) Butylbenzylphthal						0.000	-1.00
37) Benzo(a)anthracen						0.000	-1.00
38) Chrysene						0.000	-1.00
39) bis(2-Ethylhexyl)						0.000	-1.00

Initial Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-ICC629
Lab FileID: J13689.D

```
40) I   Perylene-d12          ----------------ISTD---------------------
41)  Methyl Chrysene                                          0.000  -1.00
42)C Di-n-octylphthala                                        0.000  -1.00
43)  7,12-Dimethylbenz                                        0.000  -1.00
44)  Benzo(b)fluoranth                                        0.000  -1.00
45)  Benzo(k)fluoranth                                        0.000  -1.00
46)C Benzo(a)pyrene                                           0.000  -1.00
47)  Dibenz(a,h)acridi                                        0.000  -1.00
48)  Dibenz(a,h)anthra                                        0.000  -1.00
-------------------------------------------------------------------------
(#) = Out of Range

          ej629ben+res.m        Thu Oct 08 14:52:12 2009
```

7.7.9

7

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ629-ICV629
Lab FileID: J13695.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej629\j13695.D            Vial: 9
Acq On    :  8 Oct 2009   2:26 pm                   Operator: sheilac
Sample    : icv629-50,(Bzth+Resor)                  Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej629,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:50:46 2009
Response via : Single Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	4.73
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)		----------NA----------				
4		Benzenethiol	1.540	1.465	4.9	88	0.00	4.40
5	S	Phenol-d5 (SURR)		----------NA----------				
6	C	Phenol		----------NA----------				
7		1,3-Dichlorobenzene		----------NA----------				
8	C	1,4-Dichlorobenzene		----------NA----------				
9		1,2-Dichlorobenzene		----------NA----------				
10		Indene		----------NA----------				
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	5.94
15	S	Nitrobenzene-d5 (SURR)		----------NA----------				
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
19		Resorcinol	50.000	47.270	5.5	87	-0.01	6.59
		----------	AvgRF	CCRF	%Dev		----------	
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	8.41
22	S	2-Fluorobiphenyl (SURR)		----------NA----------				
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00	11.19
28	S	2,4,6-Tribromophenol (SUR		----------NA----------				
29		Phenanthrene		----------NA----------				
30		Anthracene		----------NA----------				
31		Di-n-butylphthalate		----------NA----------				
32	C	Fluoranthene		----------NA----------				
33	I	Chrysene-d12	1.000	1.000	0.0	72	0.00	16.71
34		Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-ICV629
Lab FileID: J13695.D

35	S	Terphenyl-d14		----------NA----------				
36		Butylbenzylphthalate		----------NA----------				
37		Benzo(a)anthracene		----------NA----------				
38		Chrysene		----------NA----------				
39		bis(2-Ethylhexyl)phthalat		----------NA----------				
40	I	Perylene-d12	1.000	1.000	0.0	85	0.00	19.51
41		Methyl Chrysene		----------NA----------				
42	C	Di-n-octylphthalate		----------NA----------				
43		7,12-Dimethylbenz(a)anthr		----------NA----------				
44		Benzo(b)fluoranthene		----------NA----------				
45		Benzo(k)fluoranthene		----------NA----------				
46	C	Benzo(a)pyrene		----------NA----------				
47		Dibenz(a,h)acridine		----------NA----------				
48		Dibenz(a,h)anthracene		----------NA----------				

j13689.D ej629ben+res.m Thu Oct 08 14:53:03 2009

7.7.10

7

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ634-CC615
Lab FileID: J13811.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej634\j13811.D Vial: 2
Acq On : 14 Oct 2009 11:18 am Operator: sheilac
Sample : cc615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej634,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Thu Oct 15 18:34:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	-0.02	4.70
2		n-Nitrosodimethylamine	0.672	0.695	-3.4	114	0.00	2.45
3		Pyridine	1.186	1.268	-6.9	112	0.00	2.43
4	S	2-Fluorophenol (SURR)	1.255	1.283	-2.2	110	0.02	3.69
5	S	Phenol-d5 (SURR)	1.569	1.744	-11.2	115	0.00	4.49
6	C	Phenol	1.698	1.921	-13.1	117	-0.02	4.50
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	50.000	53.137	-6.3	120	0.00	4.46
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.501	9.8	99	-0.02	4.51
9		2-Chlorophenol	1.317	1.289	2.1	106	-0.03	4.56
10		1,3-Dichlorobenzene	1.492	1.466	1.7	106	-0.02	4.66
11	C	1,4-Dichlorobenzene	1.601	1.623	-1.4	110	0.00	4.72
12		Benzyl Alcohol	0.918	0.917	0.1	106	-0.02	4.86
13		1,2-Dichlorobenzene	1.501	1.522	-1.4	108	-0.02	4.85
14		2-Methylphenol	1.190	1.186	0.3	110	0.00	4.97
15		bis(2-chloroisopropyl)eth	2.108	2.073	1.7	111	-0.01	4.95
16		4-Methylphenol	1.259	1.247	1.0	111	-0.01	5.11
17		m+p-Cresols	1.259	1.247	1.0	111	-0.01	5.11
18	P	n-Nitroso-di-n-propylamin	1.142	1.113	2.5	109	-0.03	5.09
19		Hexachloroethane	0.584	0.585	-0.2	108	-0.02	5.14
20	I	Naphthalene-d8	1.000	1.000	0.0	110	0.01	5.91
21	S	Nitrobenzene-d5 (SURR)	0.419	0.442	-5.5	109	-0.09	5.21
22		Nitrobenzene	0.412	0.434	-5.3	110	-0.09	5.22
23		Isophorone	0.756	0.749	0.9	105	-0.09	5.46
24	C	2-Nitrophenol	0.189	0.190	-0.5	105	-0.09	5.52
25		2,4-Dimethylphenol	0.313	0.330	-5.4	104	-0.02	5.60
26		bis(2-Chloroethoxy)methan	0.417	0.430	-3.1	109	-0.09	5.66
27		Benzoic Acid	0.156	0.163	-4.5	93	-0.09	5.80
28	C	2,4-Dichlorophenol	0.276	0.295	-6.9	111	-0.10	5.80
29		1,2,4-Trichlorobenzene	0.332	0.340	-2.4	106	-0.10	5.85
30		Naphthalene	1.089	1.151	-5.7	109	0.00	5.94
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	51.800	-3.6	111	-0.09	6.01
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.218	-4.8	109	-0.10	6.08
33	C	4-Chloro-3-methylphenol	0.311	0.319	-2.6	106	-0.10	6.64

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ634-CC615
Lab FileID: J13811.D

34		2-Methylnaphthalene	0.666	0.697	-4.7	107	-0.04	6.78
35		1-Methylnaphthalene	0.697	0.726	-4.2	107	-0.04	6.91
36	I	Acenaphthene-d10	1.000	1.000	0.0	114	-0.04	8.37
37	P	Hexachlorocyclopentadiene	0.147	0.111	24.5	61	-0.04	7.00
38	C	2,4,6-Trichlorophenol	0.334	0.322	3.6	104	0.00	7.20
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	50.000	42.988	14.0	100	-0.04	7.28
		----------	AvgRF	CCRF	%Dev		----------	
40	S	2-Fluorobiphenyl (SURR)	1.558	1.512	3.0	104	-0.23	7.31
41		2-Chloronaphthalene	1.118	1.102	1.4	107	-0.24	7.47
42		2-Nitroaniline	0.376	0.372	1.1	107	-0.24	7.67
43		Dimethylphthalate	1.343	1.232	8.3	100	-0.06	7.99
44		Acenaphthylene	1.894	1.793	5.3	102	-0.26	8.13
45		2,6-Dinitrotoluene	0.316	0.289	8.5	101	-0.05	8.08
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	50.000	51.709	-3.4	118	-0.25	8.37
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.087	2.3	106	-0.26	8.43
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	50.000	53.253	-6.5	122	-0.24	8.56
49	P	4-Nitrophenol	50.000	40.232	19.5	94	0.00	8.82
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.530	3.8	103	-0.27	8.73
51		2,4-Dinitrotoluene	0.378	0.344	9.0	96	-0.05	8.78
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	50.000	43.012	14.0	96	-0.27	9.00
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.305	6.4	102	-0.02	9.24
54		Fluorene	1.386	1.346	2.9	104	-0.05	9.35
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	50.000	46.114	7.8	106	-0.27	9.37
		----------	AvgRF	CCRF	%Dev		----------	
56		4-Nitroaniline	0.226	0.216	4.4	102	-0.26	9.50
57	I	Phenanthrene-d10	1.000	1.000	0.0	110	-0.05	11.15
58		1,2-Diphenylhydrazine	1.017	0.983	3.3	103	-0.13	9.68
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	50.000	45.577	8.8	100	-0.12	9.55
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.741	1.1	103	-0.13	9.63
61	C	n-Nitrosodiphenylamine	0.749	0.741	1.1	103	-0.13	9.63
62	S	2,4,6-Tribromophenol (SUR	0.135	0.135	0.0	104	-0.14	9.82
63		4-Bromophenyl-phenylether	0.253	0.248	2.0	103	-0.13	10.30
64		Hexachlorobenzene	0.275	0.267	2.9	104	-0.06	10.42
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	50.000	46.341	7.3	101	-0.05	10.86

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ634-CC615
Lab FileID: J13811.D

			AvgRF	CCRF	%Dev			
66		Phenanthrene	1.192	1.166	2.2	103	0.00	11.20
67		Anthracene	1.147	1.119	2.4	103	-0.12	11.30
68		Carbazole	0.924	0.887	4.0	102	-0.12	11.67
69		Di-n-butylphthalate	1.431	1.376	3.8	105	-0.09	12.50
70	C	Fluoranthene	1.080	1.000	7.4	103	-0.06	13.64
71	I	Chrysene-d12	1.000	1.000	0.0	116	-0.06	16.67

			Amount	Calc.	%Drift			
72		Benzidine	50.000	54.860	-9.7	126	-0.09	13.99

			AvgRF	CCRF	%Dev			
73		Pyrene	1.409	1.503	-6.7	104	-0.10	14.10
74	S	Terphenyl-d14	0.955	1.031	-8.0	107	-0.09	14.51
75		Butylbenzylphthalate	0.628	0.635	-1.1	108	-0.06	15.61
76		Benzo(a)anthracene	1.125	1.115	0.9	112	0.01	16.65
77		3,3'-Dichlorobenzidine	0.276	0.303	-9.8	158	-0.05	16.65
78		Chrysene	0.949	0.925	2.5	108	-0.07	16.73
79		bis(2-Ethylhexyl)phthalat	0.843	0.834	1.1	117	-0.06	16.88
80	I	Perylene-d12	1.000	1.000	0.0	98	-0.06	19.46

			Amount	Calc.	%Drift			
81	C	Di-n-octylphthalate	50.000	54.278	-8.6	115	-0.06	18.17

			AvgRF	CCRF	%Dev			
82		Benzo(b)fluoranthene	1.322	1.342	-1.5	96	0.01	18.78
83		Benzo(k)fluoranthene	1.207	1.377	-14.1	103	-0.07	18.83
84	C	Benzo(a)pyrene	1.129	1.154	-2.2	96	0.04	19.36
85		Indeno(1,2,3-cd)pyrene	0.952	1.013	-6.4	94	-0.08	21.54
86		Dibenz(a,h)anthracene	0.790	0.844	-6.8	95	-0.09	21.57
87		Benzo(g,h,i)perylene	0.719	0.756	-5.1	91	-0.10	22.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13340.D ej615mg.m Thu Oct 15 18:37:07 2009

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ634-CC629
Lab FileID: J13813.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej634\j13813.D            Vial: 4
Acq On    : 14 Oct 2009  12:19 pm                   Operator: sheilac
Sample    : cc629-50,(Bzth+Resor)                   Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej634,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:53:20 2009
Response via : Single Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	150	-0.02	4.70
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)	1.540	1.896	-23.1	185	-0.03	3.69
4		Benzenethiol	1.540	1.834	-19.1	176	-0.02	4.38
5	S	Phenol-d5 (SURR)	1.959	2.397	-22.4	187	-0.03	4.48
6	C	Phenol		----------NA----------				
7		1,3-Dichlorobenzene		----------NA----------				
8	C	1,4-Dichlorobenzene		----------NA----------				
9		1,2-Dichlorobenzene		----------NA----------				
10		Indene		----------NA----------				
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	154	-0.03	5.90
15	S	Nitrobenzene-d5 (SURR)	0.498	0.605	-21.5	189	-0.03	5.20
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
19		Resorcinol	40.000	38.596	3.5	153	-0.05	6.55
		----------	AvgRF	CCRF	%Dev	----------		
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	152	-0.05	8.36
22	S	2-Fluorobiphenyl (SURR)	1.640	2.120	-29.3#	200	-0.05	7.30
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	133	-0.06	11.13
28	S	2,4,6-Tribromophenol (SUR	0.136	0.173	-27.2#	181	-0.07	9.80
29		Phenanthrene		----------NA----------				
30		Anthracene		----------NA----------				
31		Di-n-butylphthalate		----------NA----------				
32	C	Fluoranthene		----------NA----------				
33	I	Chrysene-d12	1.000	1.000	0.0	128	-0.06	16.65
34		Pyrene		----------NA----------				

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ634-CC629
Lab FileID: J13813.D

35	S	Terphenyl-d14	1.227	1.552	-26.5#	161	-0.07	14.50
36		Butylbenzylphthalate	----------NA----------					
37		Benzo(a)anthracene	----------NA----------					
38		Chrysene	----------NA----------					
39		bis(2-Ethylhexyl)phthalat	----------NA----------					
40	I	Perylene-d12	1.000	1.000	0.0	128	-0.06	19.46
41		Methyl Chrysene	----------NA----------					
42	C	Di-n-octylphthalate	----------NA----------					
43		7,12-Dimethylbenz(a)anthr	----------NA----------					
44		Benzo(b)fluoranthene	----------NA----------					
45		Benzo(k)fluoranthene	----------NA----------					
46	C	Benzo(a)pyrene	----------NA----------					
47		Dibenz(a,h)acridine	----------NA----------					
48		Dibenz(a,h)anthracene	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13690.D ej629ben+res.m Wed Oct 14 13:17:28 2009

7.7.12

7

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ635-CC615
Lab FileID: J13837.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej635\j13837.D Vial: 2
Acq On : 15 Oct 2009 10:48 am Operator: sheilac
Sample : cc615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej635,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Wed Oct 14 12:22:32 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	-0.02	4.71
2		n-Nitrosodimethylamine	0.672	0.701	-4.3	117	0.00	2.46
3		Pyridine	1.186	1.268	-6.9	113	0.00	2.44
4	S	2-Fluorophenol (SURR)	1.255	1.294	-3.1	112	0.02	3.69
5	S	Phenol-d5 (SURR)	1.569	1.764	-12.4	118	0.00	4.50
6	C	Phenol	1.698	1.938	-14.1	119	-0.02	4.50
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	50.000	54.341	-8.7	124	0.01	4.47
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.476	11.3	99	-0.01	4.51
9		2-Chlorophenol	1.317	1.284	2.5	107	-0.03	4.57
10		1,3-Dichlorobenzene	1.492	1.472	1.3	108	-0.02	4.66
11	C	1,4-Dichlorobenzene	1.601	1.629	-1.7	112	0.01	4.73
12		Benzyl Alcohol	0.918	0.885	3.6	103	-0.01	4.86
13		1,2-Dichlorobenzene	1.501	1.518	-1.1	109	-0.02	4.85
14		2-Methylphenol	1.190	1.197	-0.6	113	0.01	4.97
15		bis(2-chloroisopropyl)eth	2.108	2.113	-0.2	114	0.00	4.96
16		4-Methylphenol	1.259	1.225	2.7	110	0.00	5.12
17		m+p-Cresols	1.259	1.225	2.7	110	0.00	5.12
18	P	n-Nitroso-di-n-propylamin	1.142	1.129	1.1	112	-0.03	5.09
19		Hexachloroethane	0.584	0.588	-0.7	110	-0.02	5.14
20	I	Naphthalene-d8	1.000	1.000	0.0	112	0.02	5.92
21	S	Nitrobenzene-d5 (SURR)	0.419	0.444	-6.0	111	-0.09	5.21
22		Nitrobenzene	0.412	0.439	-6.6	113	-0.09	5.23
23		Isophorone	0.756	0.748	1.1	106	-0.08	5.46
24	C	2-Nitrophenol	0.189	0.190	-0.5	107	-0.09	5.53
25		2,4-Dimethylphenol	0.313	0.327	-4.5	105	-0.01	5.61
26		bis(2-Chloroethoxy)methan	0.417	0.428	-2.6	110	-0.08	5.67
27		Benzoic Acid	0.156	0.161	-3.2	93	-0.09	5.81
28	C	2,4-Dichlorophenol	0.276	0.291	-5.4	111	-0.09	5.81
29		1,2,4-Trichlorobenzene	0.332	0.342	-3.0	108	-0.09	5.86
30		Naphthalene	1.089	1.157	-6.2	111	0.01	5.95
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	51.673	-3.3	112	-0.09	6.01
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.218	-4.8	111	-0.09	6.08
33	C	4-Chloro-3-methylphenol	0.311	0.308	1.0	104	-0.10	6.64

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ635-CC615
Lab FileID: J13837.D

34		2-Methylnaphthalene	0.666	0.689	-3.5	107	-0.03	6.79
35		1-Methylnaphthalene	0.697	0.722	-3.6	107	-0.04	6.92
36	I	Acenaphthene-d10	1.000	1.000	0.0	111	-0.03	8.38
		----------	Amount	Calc.	%Drift		----------	
37	P	Hexachlorocyclopentadiene	50.000	30.344	39.3#	48	-0.03	7.01
		----------	AvgRF	CCRF	%Dev		----------	
38	C	2,4,6-Trichlorophenol	0.334	0.324	3.0	102	0.02	7.21
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	50.000	42.558	14.9	97	-0.04	7.29
		----------	AvgRF	CCRF	%Dev		----------	
40	S	2-Fluorobiphenyl (SURR)	1.558	1.560	-0.1	104	-0.23	7.31
41		2-Chloronaphthalene	1.118	1.124	-0.5	106	-0.23	7.49
42		2-Nitroaniline	0.376	0.373	0.8	104	-0.24	7.67
43		Dimethylphthalate	1.343	1.219	9.2	97	-0.05	8.00
44		Acenaphthylene	1.894	1.812	4.3	100	-0.25	8.14
45		2,6-Dinitrotoluene	0.316	0.285	9.8	97	-0.04	8.08
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	50.000	49.361	1.3	110	-0.24	8.37
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.095	1.6	103	-0.25	8.44
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	50.000	48.802	2.4	106	-0.23	8.57
49	P	4-Nitrophenol	50.000	33.447	33.1#	75	-0.05	8.82
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.521	4.3	100	-0.26	8.74
51		2,4-Dinitrotoluene	0.378	0.330	12.7	90	-0.04	8.79
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	50.000	41.673	16.7	91	-0.26	9.00
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.263	9.4	96	-0.01	9.25
54		Fluorene	1.386	1.320	4.8	99	-0.04	9.36
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	50.000	45.233	9.5	101	-0.26	9.38
		----------	AvgRF	CCRF	%Dev		----------	
56		4-Nitroaniline	0.226	0.196	13.3	90	-0.26	9.50
57	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.05	11.15
58		1,2-Diphenylhydrazine	1.017	1.046	-2.9	100	-0.13	9.68
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	50.000	45.362	9.3	91	-0.11	9.56
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.768	-2.5	97	-0.13	9.64
61	C	n-Nitrosodiphenylamine	0.749	0.768	-2.5	97	-0.13	9.64
62	S	2,4,6-Tribromophenol (SUR	0.135	0.135	0.0	95	-0.13	9.83
63		4-Bromophenyl-phenylether	0.253	0.256	-1.2	96	-0.12	10.31

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ635-CC615
Lab FileID: J13837.D

64		Hexachlorobenzene	0.275	0.272	1.1	96	-0.05	10.43
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	50.000	44.732	10.5	87	-0.04	10.86
		----------	AvgRF	CCRF	%Dev		----------	
66		Phenanthrene	1.192	1.179	1.1	95	0.02	11.21
67		Anthracene	1.147	1.124	2.0	94	-0.12	11.31
68		Carbazole	0.924	0.860	6.9	90	-0.11	11.68
69		Di-n-butylphthalate	1.431	1.356	5.2	94	-0.08	12.51
70	C	Fluoranthene	1.080	0.968	10.4	91	-0.05	13.65
71	I	Chrysene-d12	1.000	1.000	0.0	113	-0.05	16.69
		----------	Amount	Calc.	%Drift		----------	
72		Benzidine	50.000	52.313	-4.6	112	-0.08	14.00
		----------	AvgRF	CCRF	%Dev		----------	
73		Pyrene	1.409	1.368	2.9	92	-0.09	14.11
74	S	Terphenyl-d14	0.955	0.944	1.2	96	-0.08	14.52
75		Butylbenzylphthalate	0.628	0.599	4.6	99	-0.05	15.62
76		Benzo(a)anthracene	1.125	1.105	1.8	108	0.02	16.66
77		3,3'-Dichlorobenzidine	0.276	0.314	-13.8	160	-0.04	16.66
78		Chrysene	0.949	0.929	2.1	106	-0.06	16.74
79		bis(2-Ethylhexyl)phthalat	0.843	0.799	5.2	109	-0.05	16.90
80	I	Perylene-d12	1.000	1.000	0.0	100	-0.05	19.48
		----------	Amount	Calc.	%Drift		----------	
81	C	Di-n-octylphthalate	50.000	53.081	-6.2	115	-0.05	18.19
		----------	AvgRF	CCRF	%Dev		----------	
82		Benzo(b)fluoranthene	1.322	1.350	-2.1	99	0.03	18.80
83		Benzo(k)fluoranthene	1.207	1.376	-14.0	105	-0.05	18.85
84	C	Benzo(a)pyrene	1.129	1.176	-4.2	100	0.05	19.38
85		Indeno(1,2,3-cd)pyrene	0.952	0.963	-1.2	92	-0.05	21.57
86		Dibenz(a,h)anthracene	0.790	0.805	-1.9	93	-0.06	21.59
87		Benzo(g,h,i)perylene	0.719	0.697	3.1	86	-0.07	22.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13340.D ej615mg.m Thu Oct 15 11:54:26 2009

7.7.13

7

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ635-CC629
Lab FileID: J13838.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej635\j13838.D            Vial: 3
Acq On    : 15 Oct 2009  11:20 am                   Operator: sheilac
Sample    : cc629-50,(Bzth+Resor)                   Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej635,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:53:20 2009
Response via : Single Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	145	-0.02	4.71
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)	1.540	1.862	-20.9	177	-0.02	3.70
4		Benzenethiol	1.540	1.803	-17.1	168	-0.02	4.39
5	S	Phenol-d5 (SURR)	1.959	2.351	-20.0	178	-0.03	4.49
6	C	Phenol		----------NA----------				
7		1,3-Dichlorobenzene		----------NA----------				
8	C	1,4-Dichlorobenzene		----------NA----------				
9		1,2-Dichlorobenzene		----------NA----------				
10		Indene		----------NA----------				
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	148	-0.02	5.91
15	S	Nitrobenzene-d5 (SURR)	0.498	0.604	-21.3	181	-0.03	5.20
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
19		Resorcinol	40.000	40.366	-0.9	154	-0.04	6.56
		----------	AvgRF	CCRF	%Dev	----------		
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	143	-0.04	8.37
22	S	2-Fluorobiphenyl (SURR)	1.640	2.142	-30.6#	189	-0.04	7.31
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	120	-0.05	11.14
28	S	2,4,6-Tribromophenol (SUR	0.136	0.173	-27.2#	164	-0.06	9.81
29		Phenanthrene		----------NA----------				
30		Anthracene		----------NA----------				
31		Di-n-butylphthalate		----------NA----------				
32	C	Fluoranthene		----------NA----------				
33	I	Chrysene-d12	1.000	1.000	0.0	115	-0.04	16.66
34		Pyrene		----------NA----------				

Continuing Calibration Summary

Job Number: T39646
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ635-CC629
Lab FileID: J13838.D

35	S	Terphenyl-d14	1.227	1.538	-25.3#	143	-0.06	14.51
36		Butylbenzylphthalate		----------NA----------				
37		Benzo(a)anthracene		----------NA----------				
38		Chrysene		----------NA----------				
39		bis(2-Ethylhexyl)phthalat		----------NA----------				
40	I	Perylene-d12	1.000	1.000	0.0	112	-0.04	19.47
41		Methyl Chrysene		----------NA----------				
42	C	Di-n-octylphthalate		----------NA----------				
43		7,12-Dimethylbenz(a)anthr		----------NA----------				
44		Benzo(b)fluoranthene		----------NA----------				
45		Benzo(k)fluoranthene		----------NA----------				
46	C	Benzo(a)pyrene		----------NA----------				
47		Dibenz(a,h)acridine		----------NA----------				
48		Dibenz(a,h)anthracene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13690.D ej629ben+res.m Thu Oct 15 11:50:14 2009

7.7.14

7

GC/MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13830.D
Acq On : 14 Oct 2009 10:01 pm
Operator : sheilac
Sample : t39646-1,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 16 14:56:06 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	519776	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.908	136	2004716	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1079188	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1627913	40.00	ug/ml	-0.06
71) Chrysene-d12	16.659	240	1045675	40.00	ug/ml	-0.07
80) Perylene-d12	19.467	264	485610	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	13092m	0.80	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.80%#	
5) Phenol-d5 (SURR)	4.496	99	11925	0.58	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.58%#	
21) Nitrobenzene-d5 (SURR)	5.196	82	12185	0.58	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.16%#	
40) 2-Fluorobiphenyl (SURR)	7.293	172	26189	0.62	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery	=	1.24%#	
62) 2,4,6-Tribromophenol (...	9.802	330	6605m	1.21	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	1.21%#	
74) Terphenyl-d14	14.498	244	23677	0.95	ug/ml	-0.10
Spiked Amount 50.000	Range 12 - 145		Recovery	=	1.90%#	
Target Compounds						Qvalue
6) Phenol	4.506	94	56655	2.57	ug/ml#	69
14) 2-Methylphenol	4.966	108	154778	10.01	ug/ml	99
16) 4-Methylphenol	5.111	108	74201	4.54	ug/ml	89
17) m+p-Cresols	5.111	108	74201	4.54	ug/ml	89
25) 2,4-Dimethylphenol	5.598	122	1310160	83.46	ug/ml	100
30) Naphthalene	5.929	128	2303431	42.19	ug/ml	99
34) 2-Methylnaphthalene	6.769	142	100750	3.02	ug/ml	98
35) 1-Methylnaphthalene	6.903	142	82460	2.36	ug/ml	95
47) Acenaphthene	8.411	154	131116	4.37	ug/ml	93
50) Dibenzofuran	8.710	168	51906	1.21	ug/ml#	89
54) Fluorene	9.331	166	27996	0.75	ug/ml#	90
66) Phenanthrene	11.182	178	64699	1.33	ug/ml	97

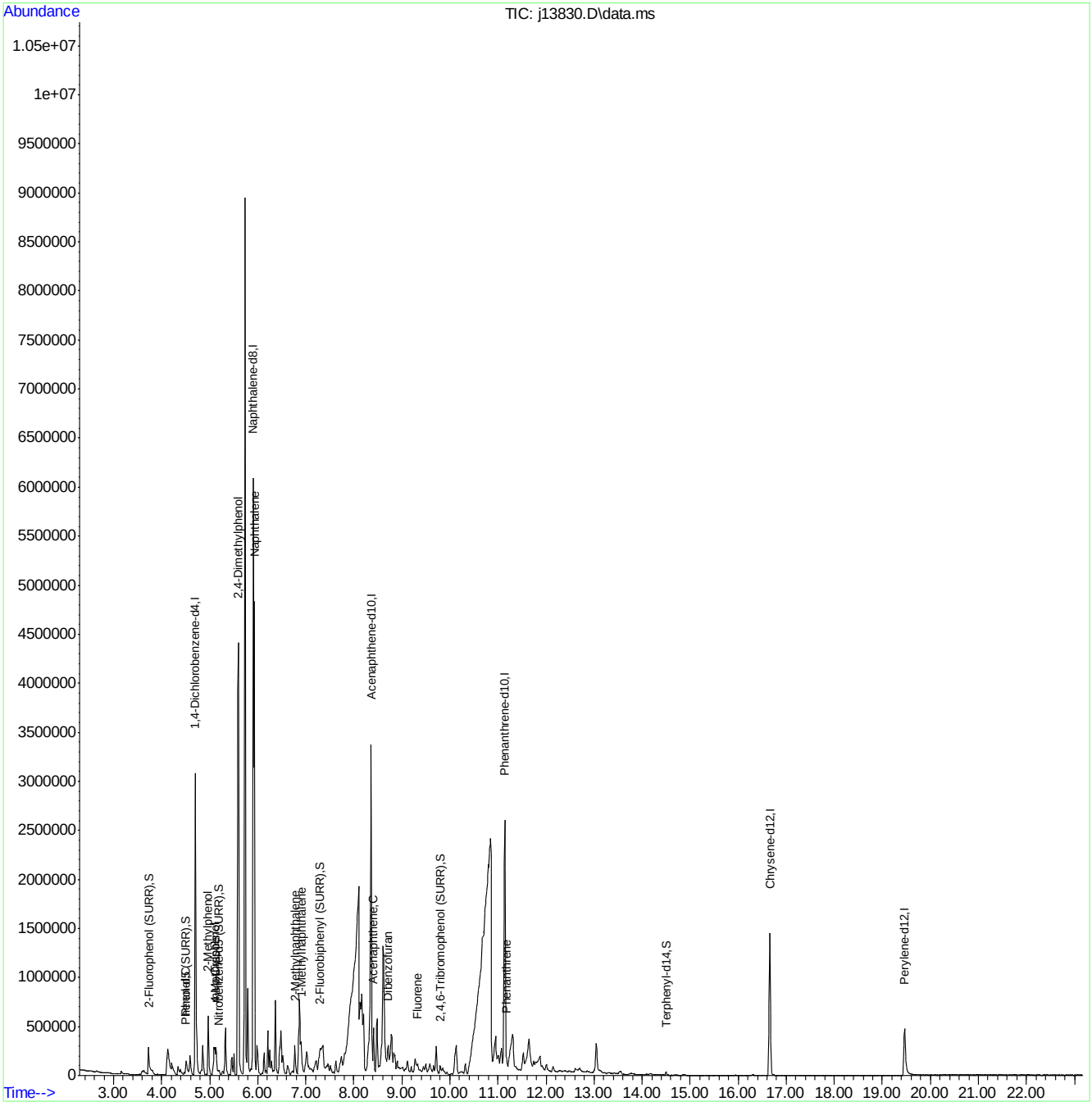
(#) = qualifier out of range (m) = manual integration (+) = signals summed

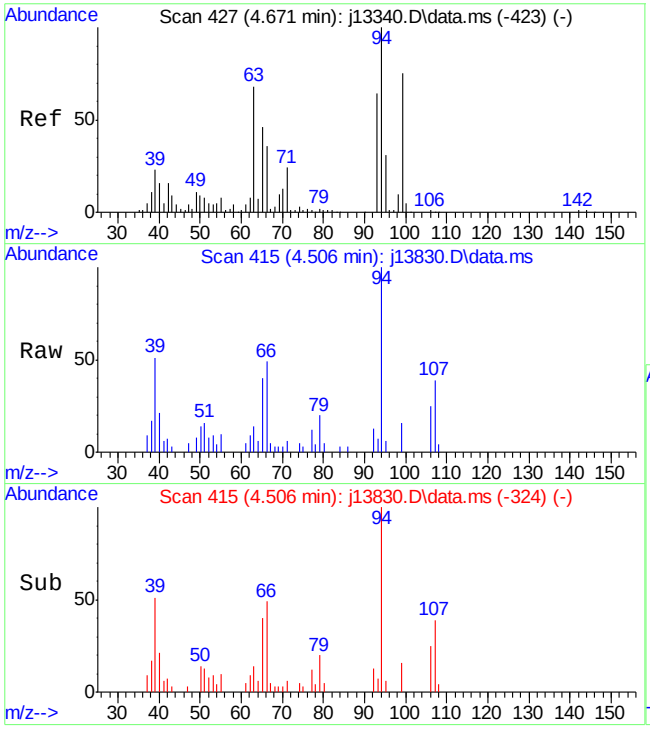
8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13830.D
Acq On : 14 Oct 2009 10:01 pm
Operator : sheilac
Sample : t39646-1,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 16 14:56:06 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

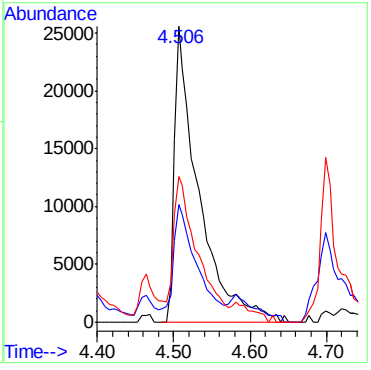


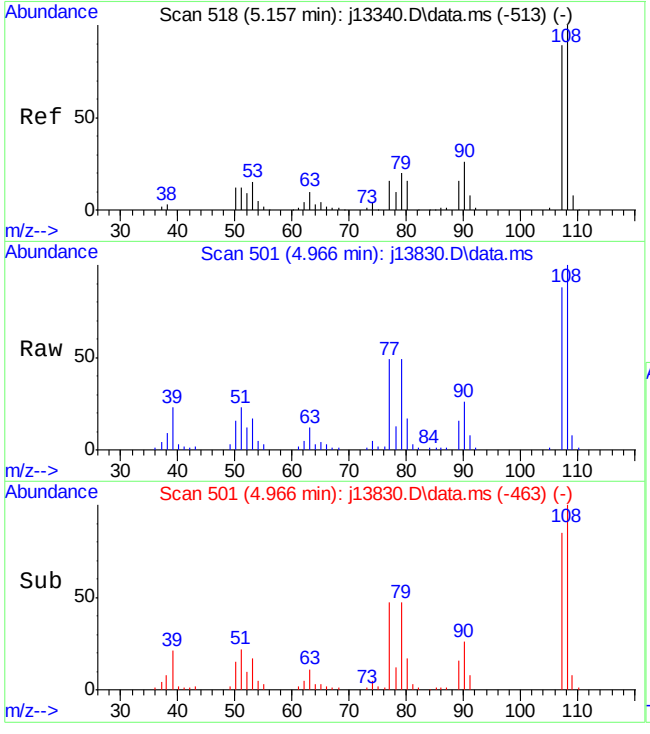


#6
Phenol
Concen: 2.57 ug/ml
RT: 4.506 min Scan# 415
Delta R.T. -0.012 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion: 94 Resp: 56655

Ion	Ratio	Lower	Upper
94	100		
65	29.4	35.3	75.3#
66	38.1	37.4	77.4

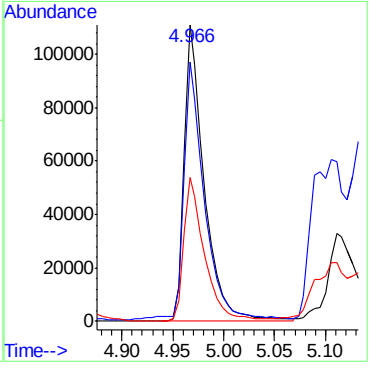




#14
2-Methylphenol
Concen: 10.01 ug/ml
RT: 4.966 min Scan# 501
Delta R.T. 0.005 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:108 Resp: 154778

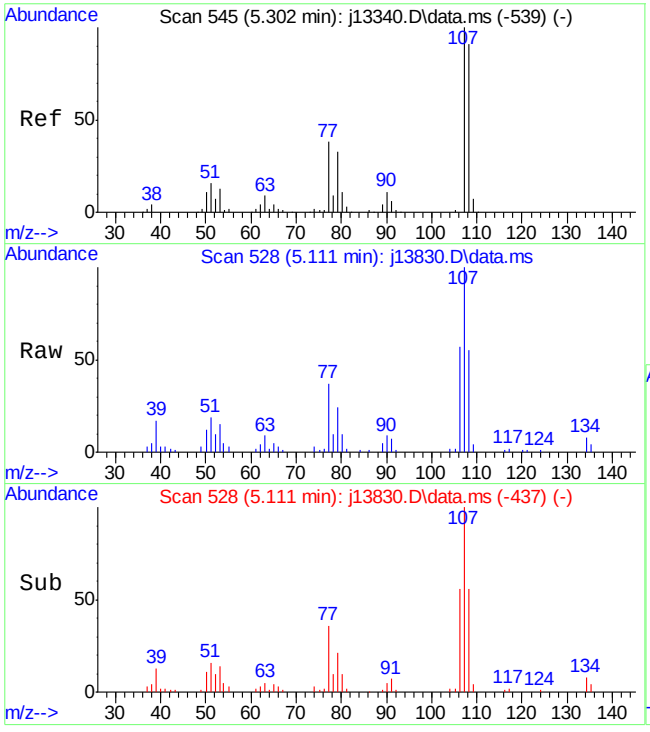
Ion	Ratio	Lower	Upper
108	100		
107	88.7	68.3	108.3
77	50.1	30.8	70.8



8.1.1

8

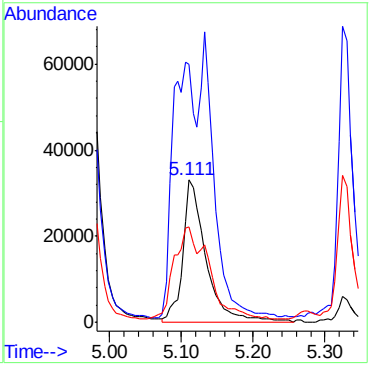
ACCUTEST Laboratories T39646

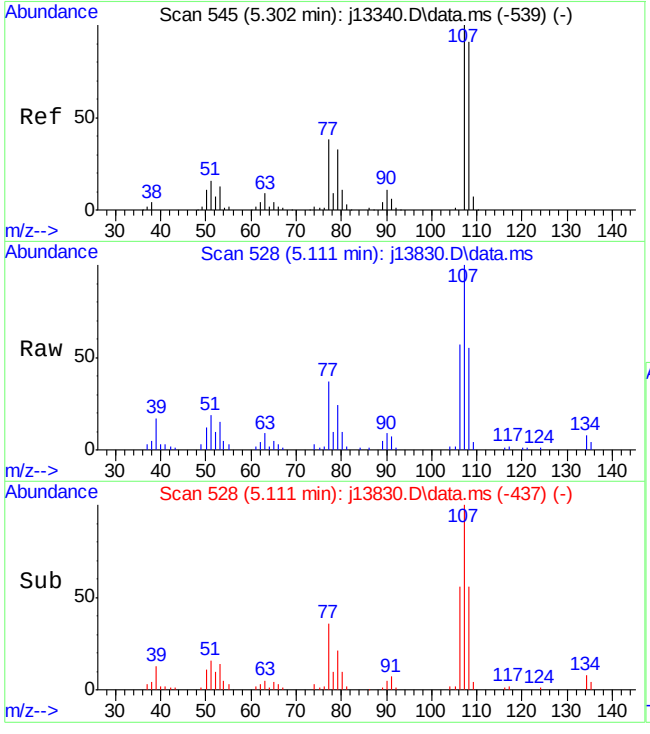


#16
4-Methylphenol
Concen: 4.54 ug/ml
RT: 5.111 min Scan# 528
Delta R.T. -0.011 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:108 Resp: 74201

Ion	Ratio	Lower	Upper
108	100		
107	178.2	139.5	179.5
77	59.5	36.8	76.8

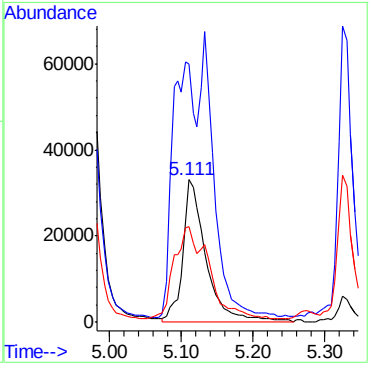




#17
m+p-Cresols
Concen: 4.54 ug/ml
RT: 5.111 min Scan# 528
Delta R.T. -0.011 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:108 Resp: 74201

Ion	Ratio	Lower	Upper
108	100		
107	178.2	139.5	179.5
77	59.5	36.8	76.8



8.1.1
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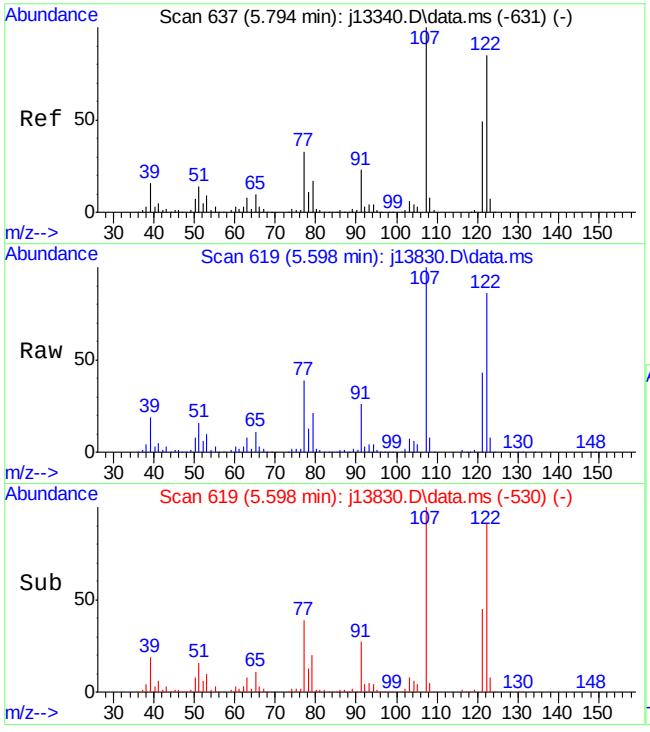
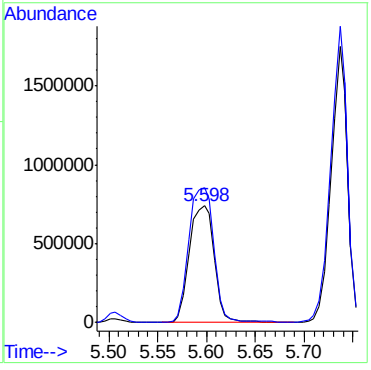
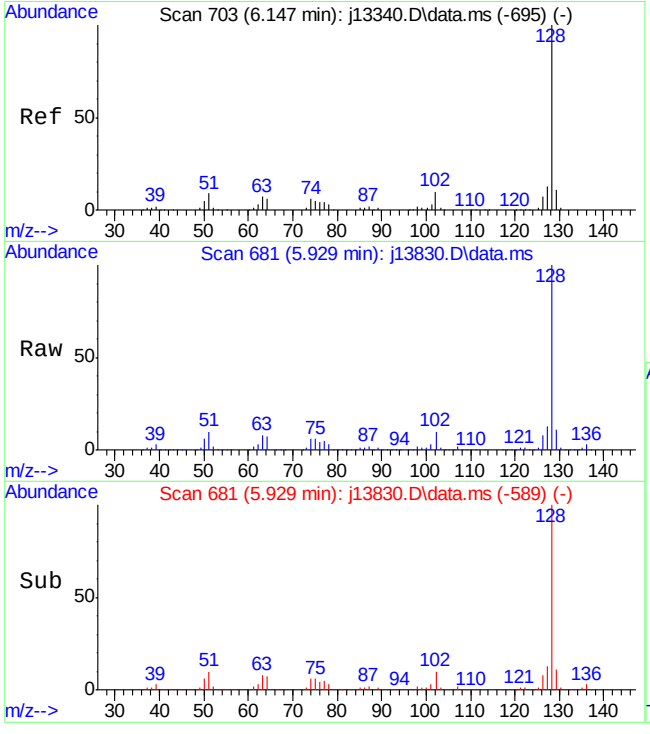


#25
2,4-Dimethylphenol
Concen: 83.46 ug/ml
RT: 5.598 min Scan# 619
Delta R.T. -0.022 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:122 Resp: 1310160

Ion	Ratio	Lower	Upper
122	100		
107	116.3	96.3	136.3

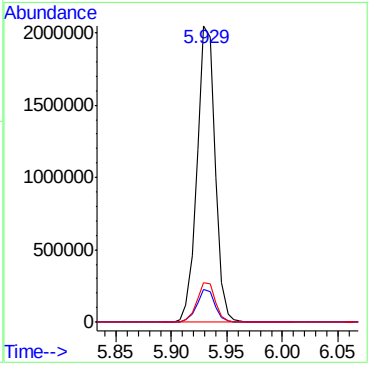




#30
Naphthalene
Concen: 42.19 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.006 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:128 Resp: 2303431

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.4	0.0	33.8



8.1.1
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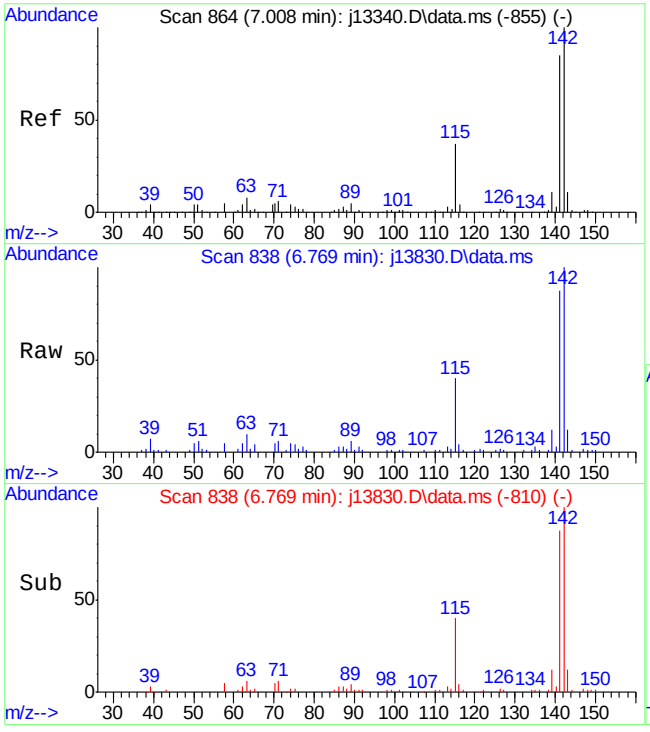
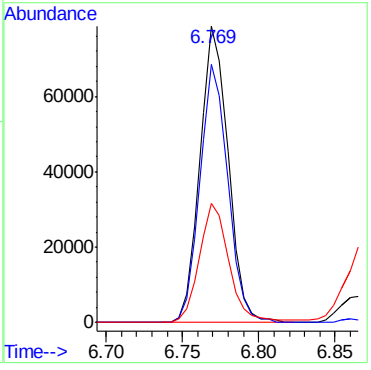
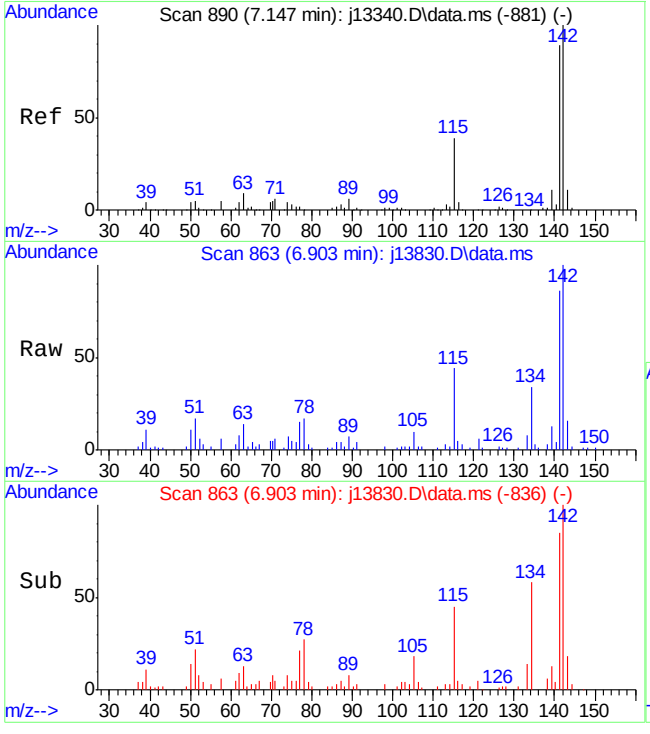


#34
2-Methylnaphthalene
Concen: 3.02 ug/ml
RT: 6.769 min Scan# 838
Delta R.T. -0.048 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:142 Resp: 100750

Ion	Ratio	Lower	Upper
142	100		
141	86.2	66.2	106.2
115	42.1	17.8	57.8

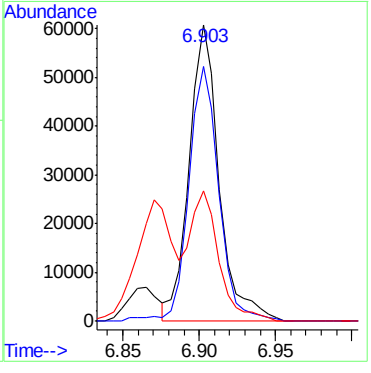




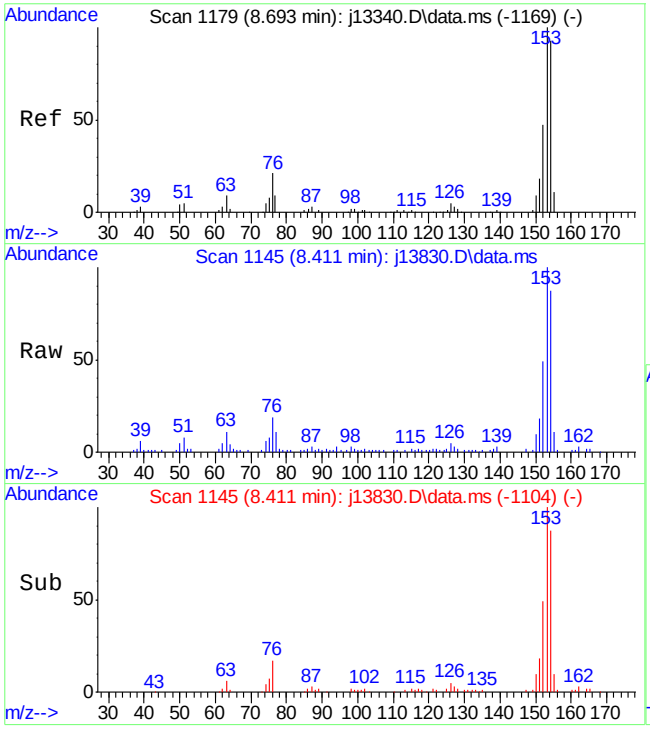
#35
1-Methylnaphthalene
Concen: 2.36 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:142 Resp: 82460

Ion	Ratio	Lower	Upper
142	100		
141	86.4	69.4	109.4
115	43.5	18.9	58.9



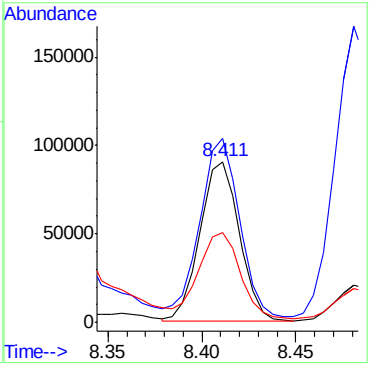
8.1.1
8

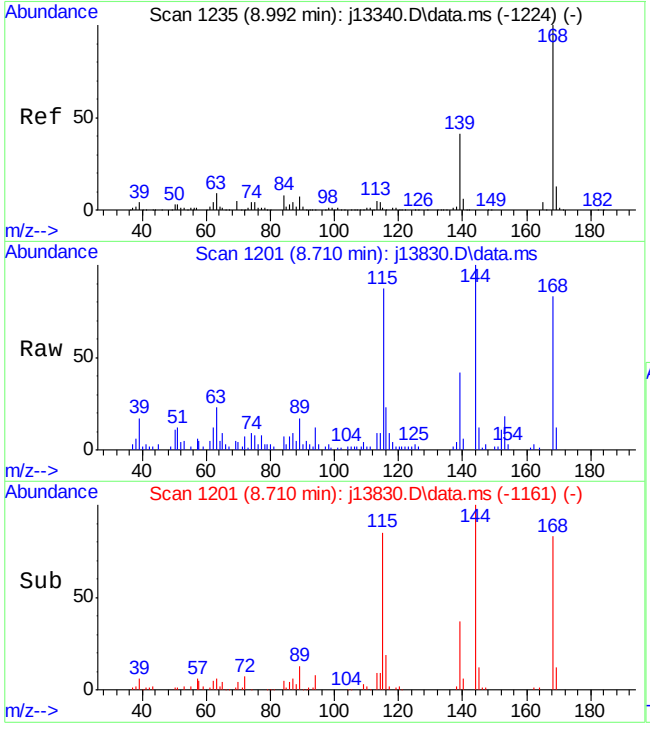


#47
Acenaphthene
Concen: 4.37 ug/ml
RT: 8.411 min Scan# 1145
Delta R.T. -0.282 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:154 Resp: 131116

Ion	Ratio	Lower	Upper
154	100		
153	111.4	87.9	127.9
152	60.7	31.3	71.3

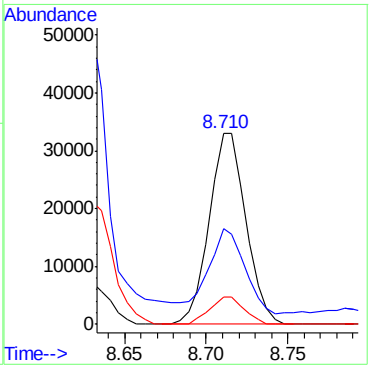


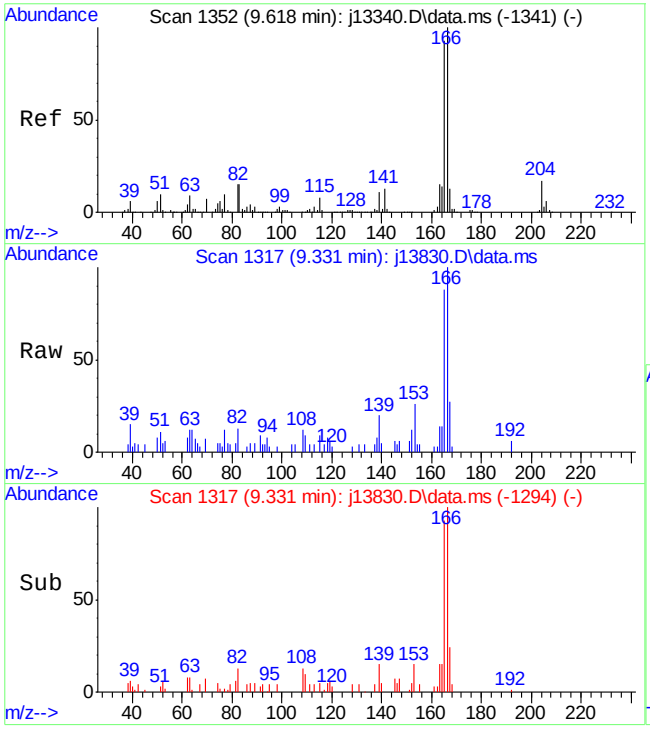


#50
Dibenzofuran
Concen: 1.21 ug/ml
RT: 8.710 min Scan# 1201
Delta R.T. -0.288 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:168 Resp: 51906

Ion	Ratio	Lower	Upper
168	100		
139	43.7	21.2	61.2
169	0.0	0.0	33.2

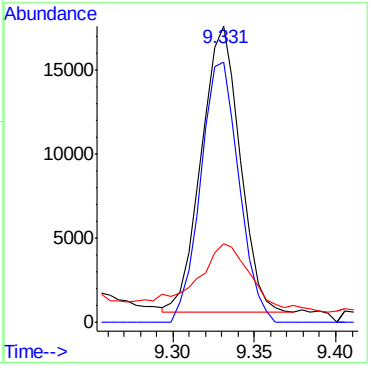


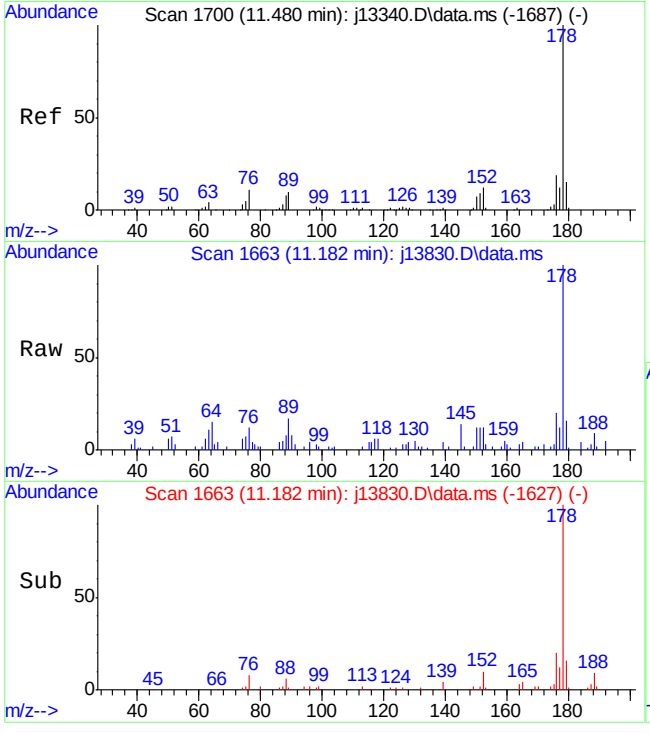


#54
Fluorene
Concen: 0.75 ug/ml
RT: 9.331 min Scan# 1317
Delta R.T. -0.075 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:166 Resp: 27996

Ion	Ratio	Lower	Upper
166	100		
165	90.2	73.8	113.8
167	36.2	0.0	33.3#

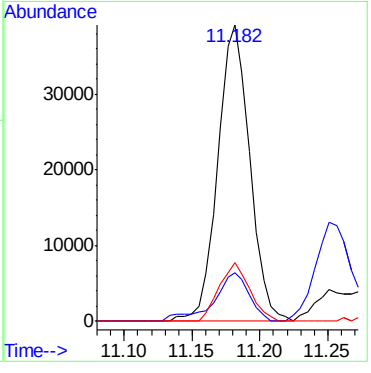




#66
Phenanthrene
Concen: 1.33 ug/ml
RT: 11.182 min Scan# 1663
Delta R.T. -0.005 min
Lab File: j13830.D
Acq: 14 Oct 2009 10:01 pm

Tgt Ion:178 Resp: 64699

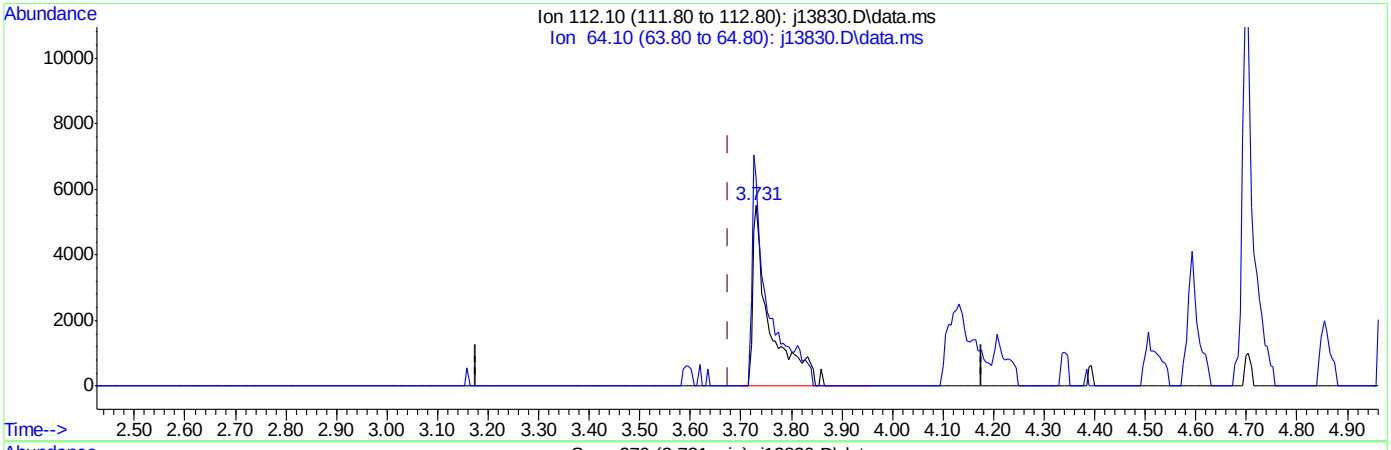
Ion	Ratio	Lower	Upper
178	100		
179	17.8	0.0	35.2
176	18.8	0.0	38.8

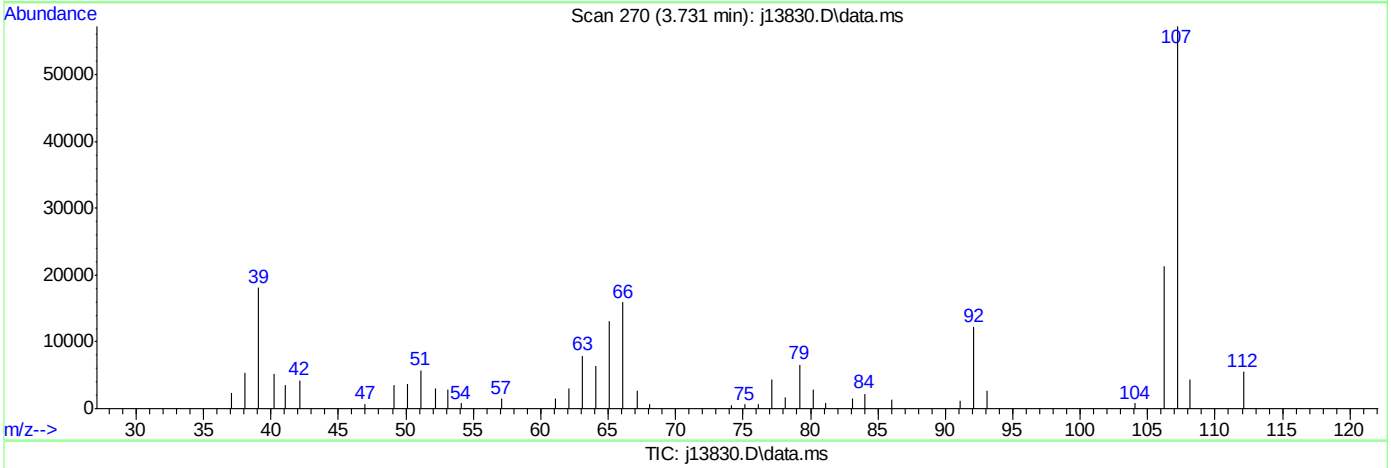


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13830.D
Acq On : 14 Oct 2009 10:01 pm
Operator : sheilac
Sample : t39646-1,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 16 14:56:06 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13830.D\data.ms

(4) 2-Fluorophenol (SURR) (S)

3.731min (+0.055) 0.80ug/ml m

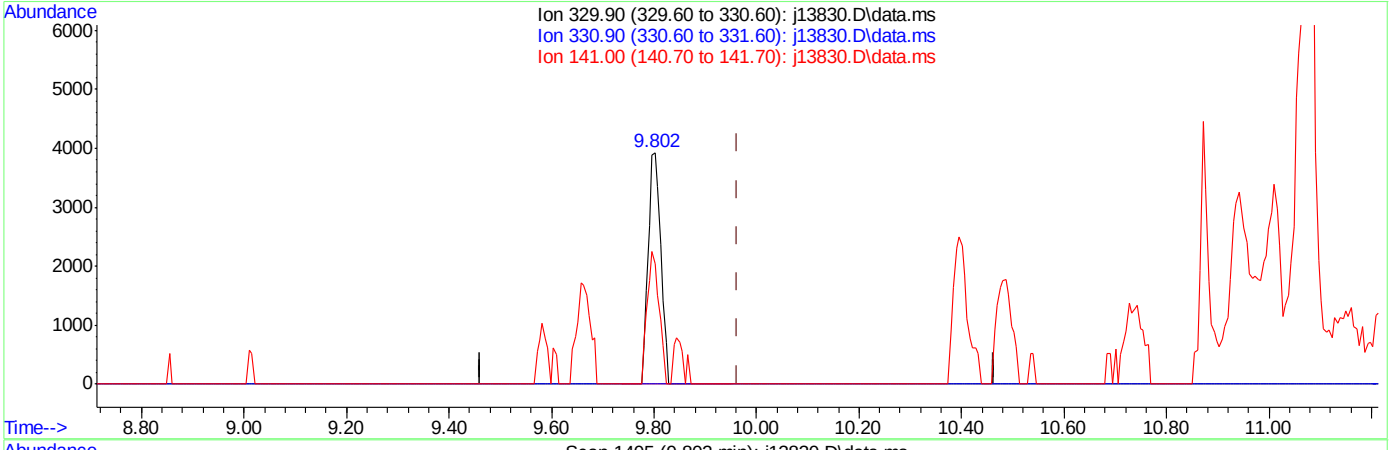
response 13092

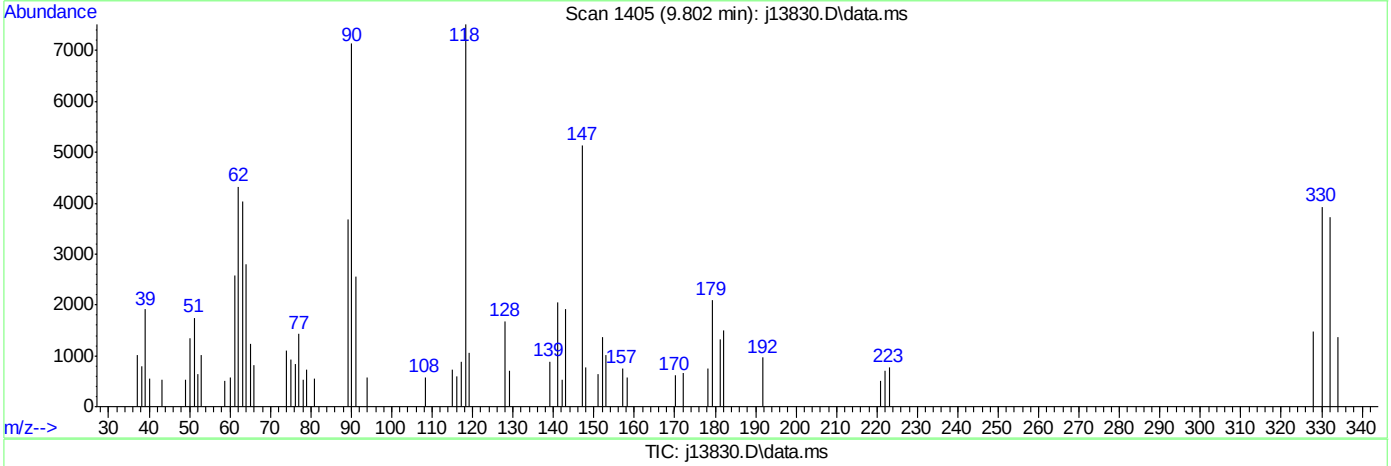
Ion	Exp%	Act%
112.10	100	100
64.10	66.70	103.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13830.D
Acq On : 14 Oct 2009 10:01 pm
Operator : sheilac
Sample : t39646-1,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 16 14:56:06 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





(62) 2,4,6-Tribromophenol (SURR) (S)

9.802min (-0.161) 1.21ug/ml m

response 6605

Ion	Exp%	Act%
329.90	100	100
330.90	5.10	0.00
141.00	42.00	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 16 11:55:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.705	152	477316	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.945	136	1921185	40.00	ug/ml	0.04
36) Acenaphthene-d10	8.379	164	1159080	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.166	188	1920586	40.00	ug/ml	-0.04
71) Chrysene-d12	16.723	240	909615	40.00	ug/ml	-0.01
80) Perylene-d12	19.499	264	527186	40.00	ug/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.736	112	164663	10.99	ug/ml	0.06
Spiked Amount 100.000	Range 10 - 66		Recovery	=	10.99%	
5) Phenol-d5 (SURR)	4.491	99	174642	9.33	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	9.33%#	
21) Nitrobenzene-d5 (SURR)	5.207	82	145593	7.23	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	=	14.46%#	
40) 2-Fluorobiphenyl (SURR)	7.309	172	308163	6.83	ug/ml	-0.23
Spiked Amount 50.000	Range 34 - 113		Recovery	=	13.66%#	
62) 2,4,6-Tribromophenol (...	9.834	330	85574	13.24	ug/ml	-0.13
Spiked Amount 100.000	Range 32 - 128		Recovery	=	13.24%#	
74) Terphenyl-d14	14.637	244	115528	5.32	ug/ml	0.04
Spiked Amount 50.000	Range 12 - 145		Recovery	=	10.64%#	
Target Compounds						Qvalue
3) Pyridine	2.442	79	49759	3.51	ug/ml	97
6) Phenol	4.501	94	743404	36.69	ug/ml#	60
14) 2-Methylphenol	4.983	108	2181033	153.57	ug/ml	97
16) 4-Methylphenol	5.122	108	971878	64.69	ug/ml#	81
17) m+p-Cresols	5.122	108	971878	64.69	ug/ml#	81
25) 2,4-Dimethylphenol	5.673	122	13238615m	879.95	ug/ml	
30) Naphthalene	5.962	128	18173661	347.32	ug/ml	96
34) 2-Methylnaphthalene	6.796	142	1310839	41.01	ug/ml	99
35) 1-Methylnaphthalene	6.924	142	1202320m	35.91	ug/ml	
47) Acenaphthene	8.438	154	1893411	58.71	ug/ml	98
53) Diethylphthalate	9.235	149	419755	10.39	ug/ml	98
54) Fluorene	9.353	166	342155	8.52	ug/ml	92
66) Phenanthrene	11.209	178	918305	16.05	ug/ml	99
68) Carbazole	11.781	167	335158	7.56	ug/ml#	85
70) Fluoranthene	13.690	202	52035	1.00	ug/ml#	63
73) Pyrene	14.145	202	38198	1.19	ug/ml#	58

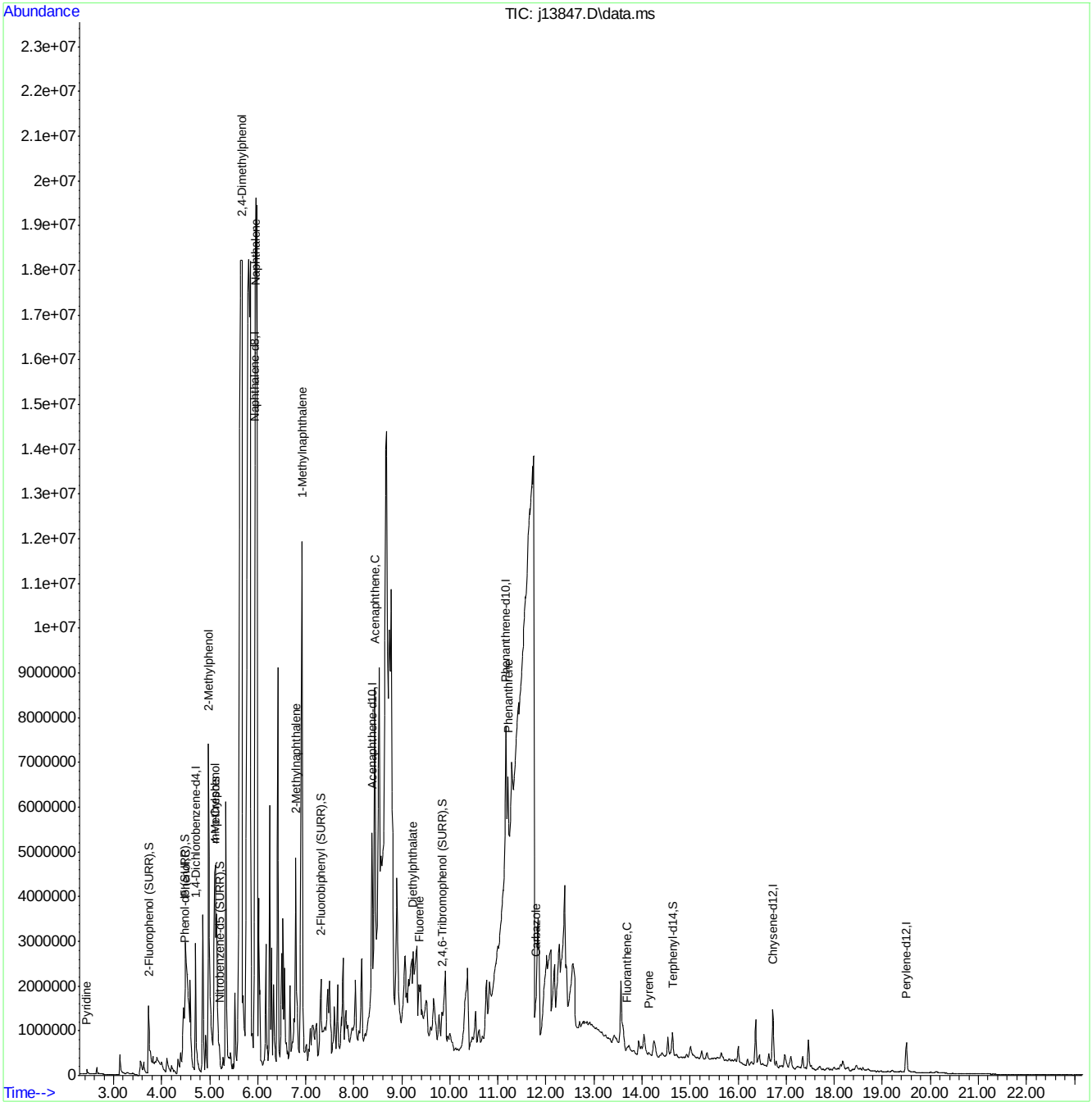
(#) = qualifier out of range (m) = manual integration (+) = signals summed

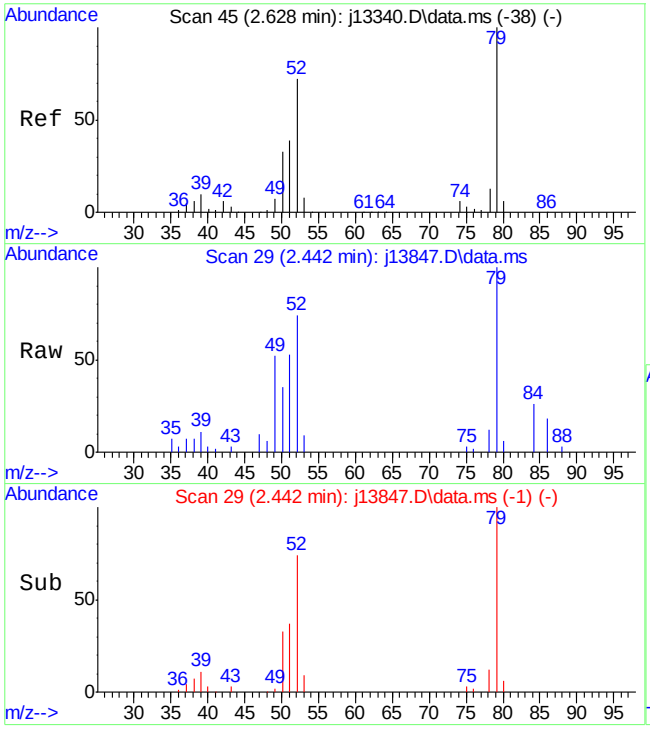
8.1.2
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 16 11:55:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

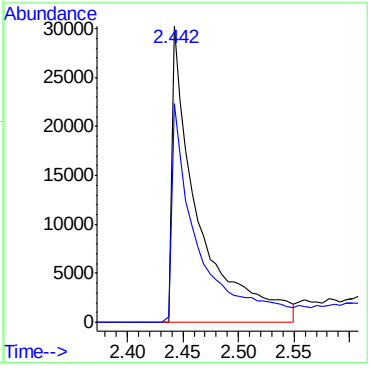


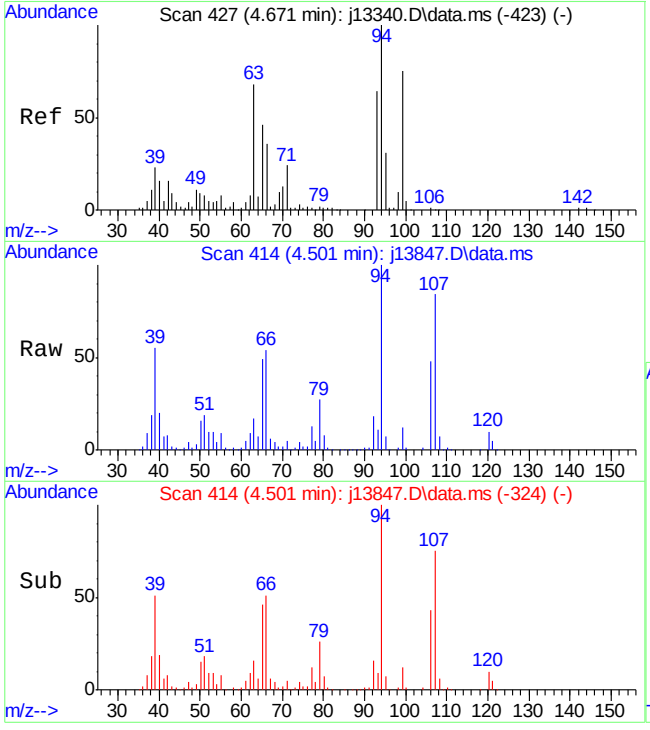


#3
Pyridine
Concen: 3.51 ug/ml
RT: 2.442 min Scan# 29
Delta R.T. 0.010 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion: 79 Resp: 49759

Ion	Ratio	Lower	Upper
79	100		
52	74.7	52.6	92.6

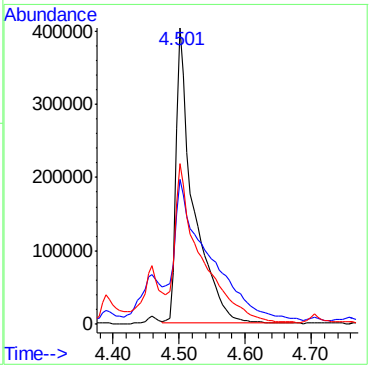


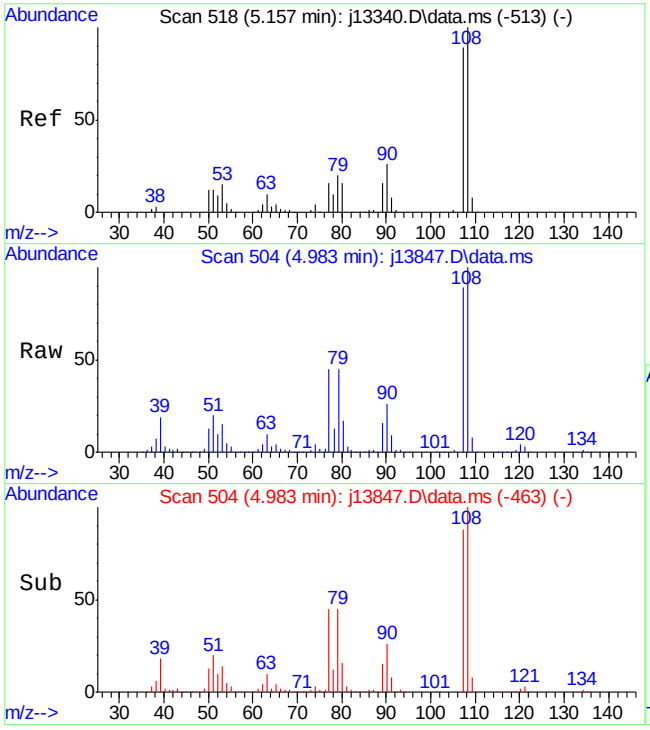


#6
Phenol
Concen: 36.69 ug/ml
RT: 4.501 min Scan# 414
Delta R.T. -0.017 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion: 94 Resp: 743404

Ion	Ratio	Lower	Upper
94	100		
65	91.7	35.3	75.3#
66	79.4	37.4	77.4#

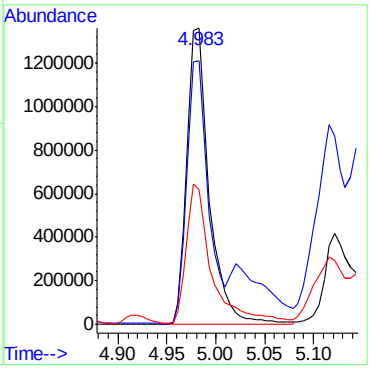


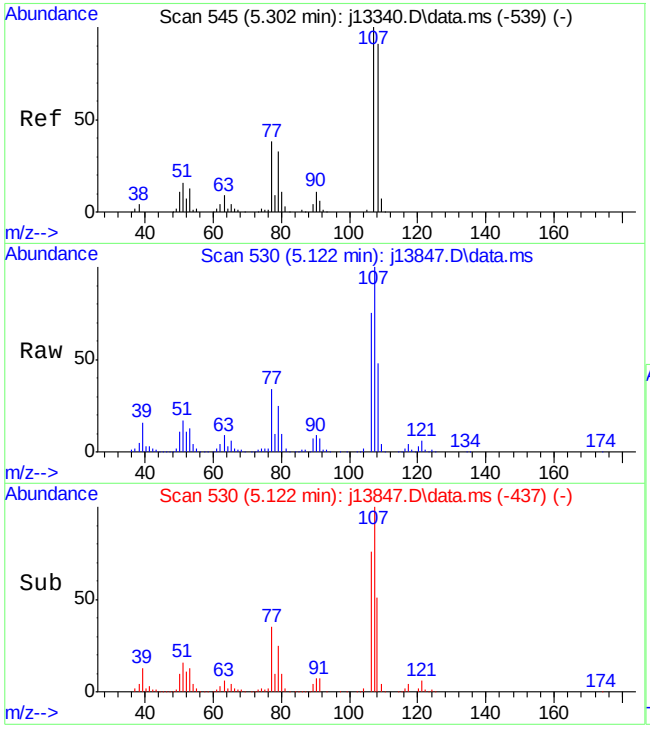


#14
2-Methylphenol
Concen: 153.57 ug/ml
RT: 4.983 min Scan# 504
Delta R.T. 0.021 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:108 Resp: 2181033

Ion	Ratio	Lower	Upper
108	100		
107	84.9	68.3	108.3
77	52.9	30.8	70.8

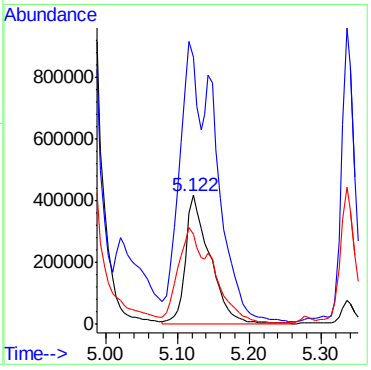


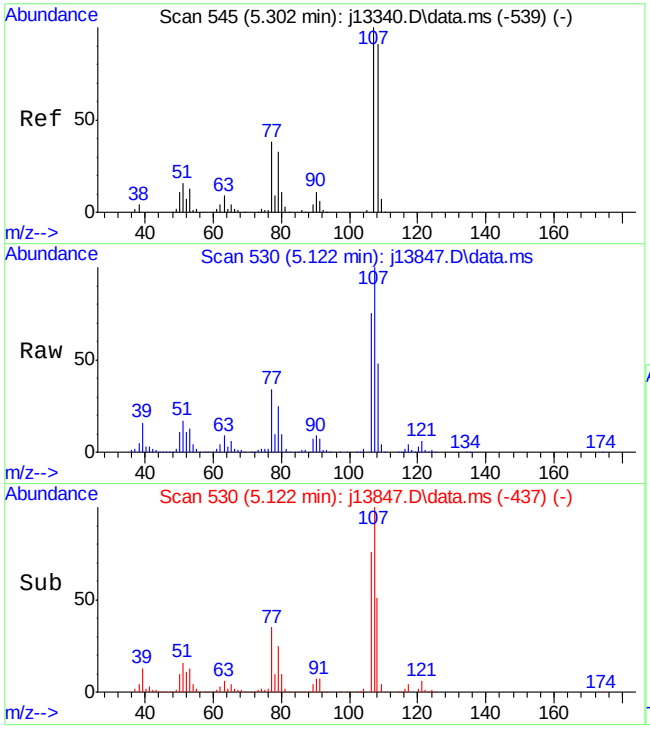


#16
4-Methylphenol
Concen: 64.69 ug/ml
RT: 5.122 min Scan# 530
Delta R.T. 0.000 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:108 Resp: 971878

Ion	Ratio	Lower	Upper
108	100		
107	157.5	139.5	179.5
77	106.8	36.8	76.8#

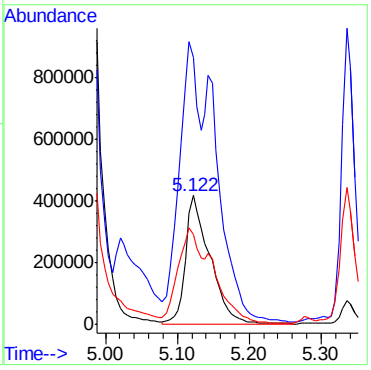


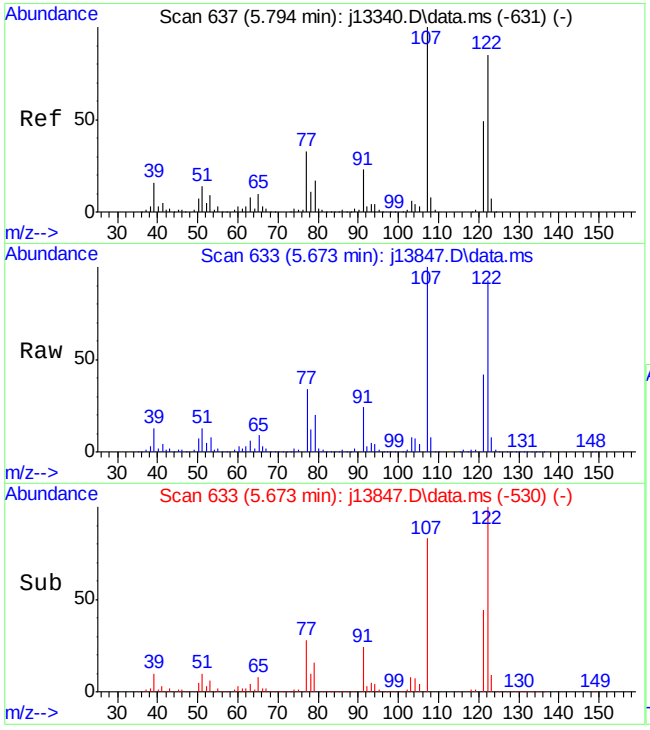


#17
m+p-Cresols
Concen: 64.69 ug/ml
RT: 5.122 min Scan# 530
Delta R.T. 0.000 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:108 Resp: 971878

Ion	Ratio	Lower	Upper
108	100		
107	157.5	139.5	179.5
77	106.8	36.8	76.8#

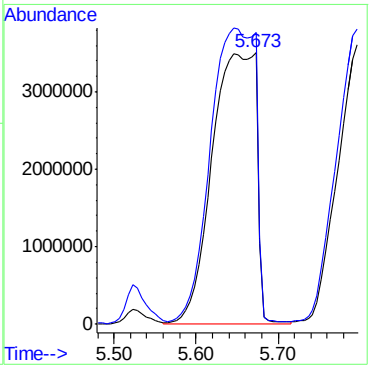


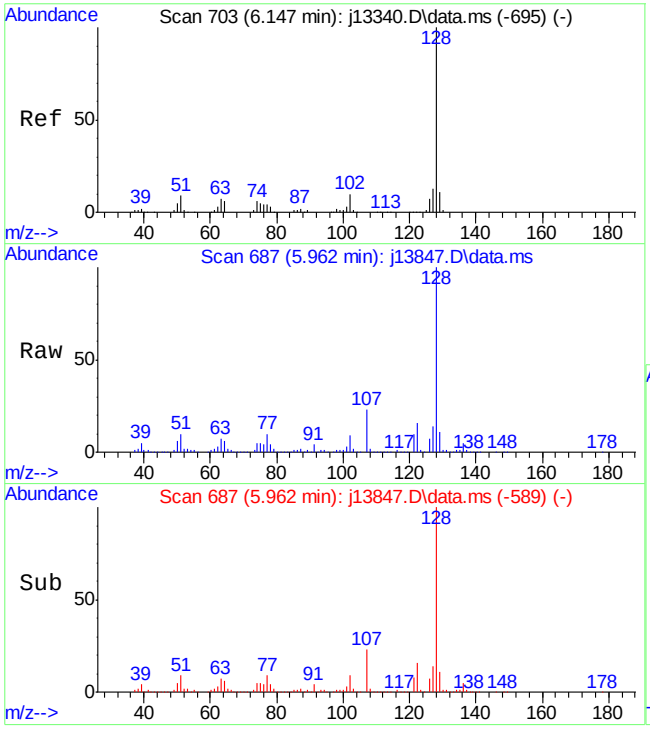


#25
2,4-Dimethylphenol
Concen: 879.95 ug/ml m
RT: 5.673 min Scan# 633
Delta R.T. 0.054 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:122 Resp:13238615

Ion	Ratio	Lower	Upper
122	100		
107	144.9	96.3	136.3#

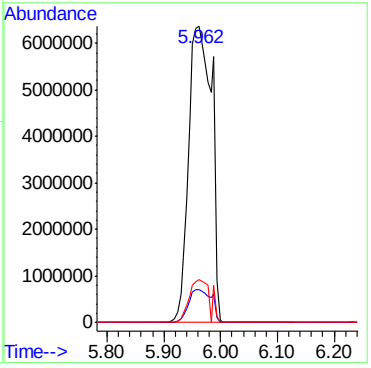


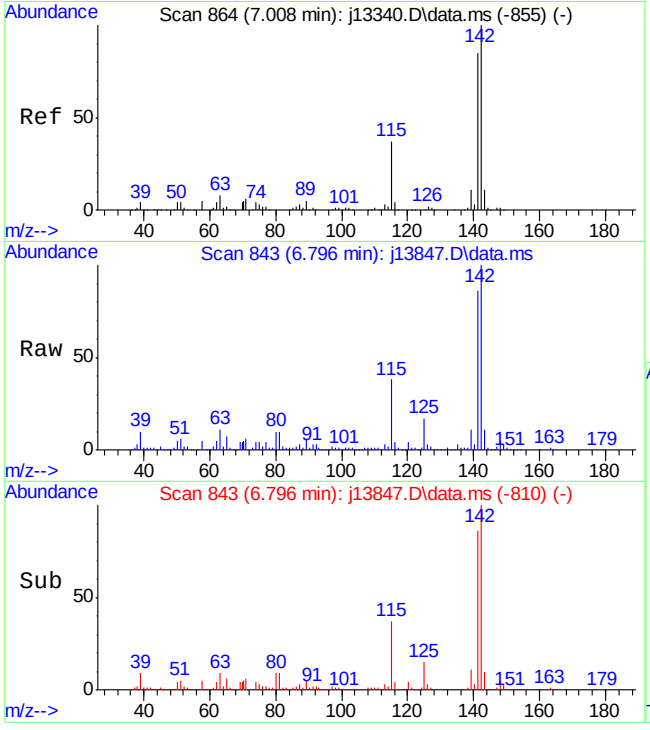


#30
Naphthalene
Concen: 347.32 ug/ml
RT: 5.962 min Scan# 687
Delta R.T. 0.027 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:128 Resp:18173661

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	31.2
127	11.3	0.0	33.8

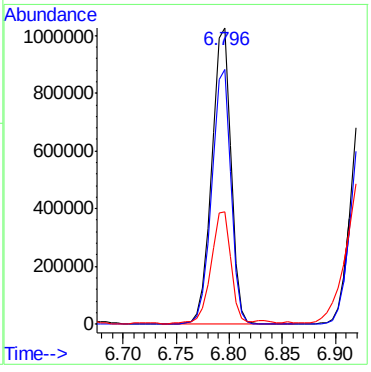




#34
2-Methylnaphthalene
Concen: 41.01 ug/ml
RT: 6.796 min Scan# 843
Delta R.T. -0.021 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

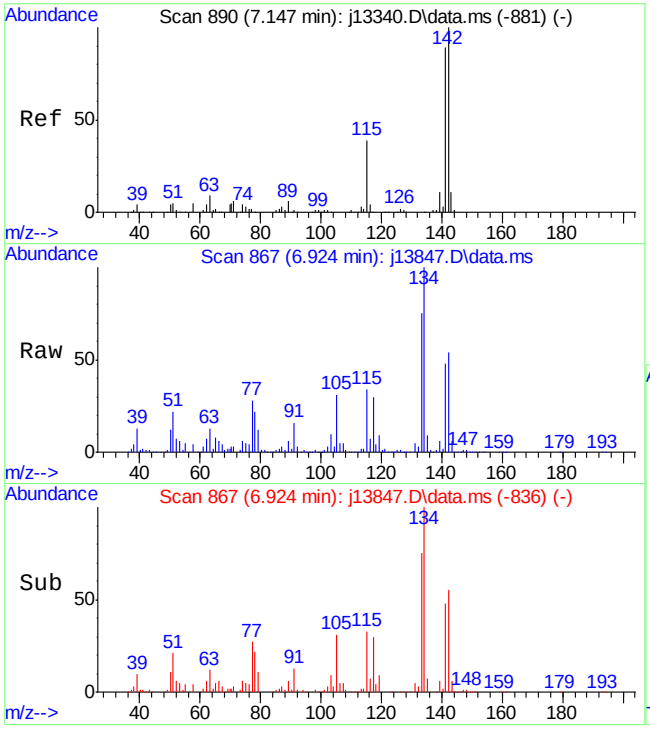
Tgt Ion:142 Resp: 1310839

Ion	Ratio	Lower	Upper
142	100		
141	85.6	66.2	106.2
115	38.8	17.8	57.8



8.1.2

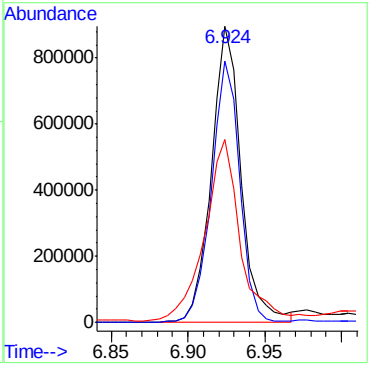
8

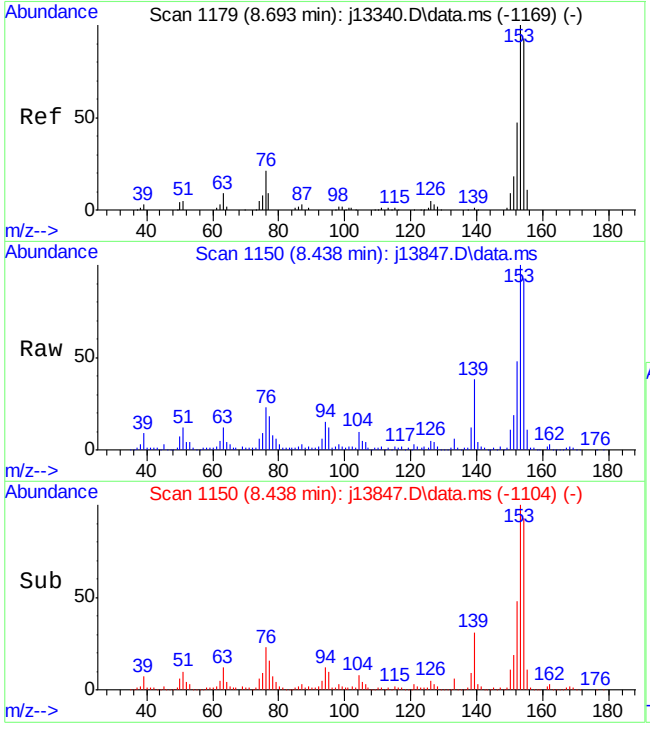


#35
1-Methylnaphthalene
Concen: 35.91 ug/ml m
RT: 6.924 min Scan# 867
Delta R.T. -0.032 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:142 Resp: 1202320

Ion	Ratio	Lower	Upper
142	100		
141	91.9	69.4	109.4
115	39.3	18.9	58.9

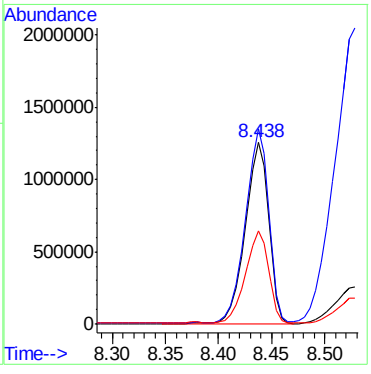




#47
Acenaphthene
Concen: 58.71 ug/ml
RT: 8.438 min Scan# 1150
Delta R.T. -0.255 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

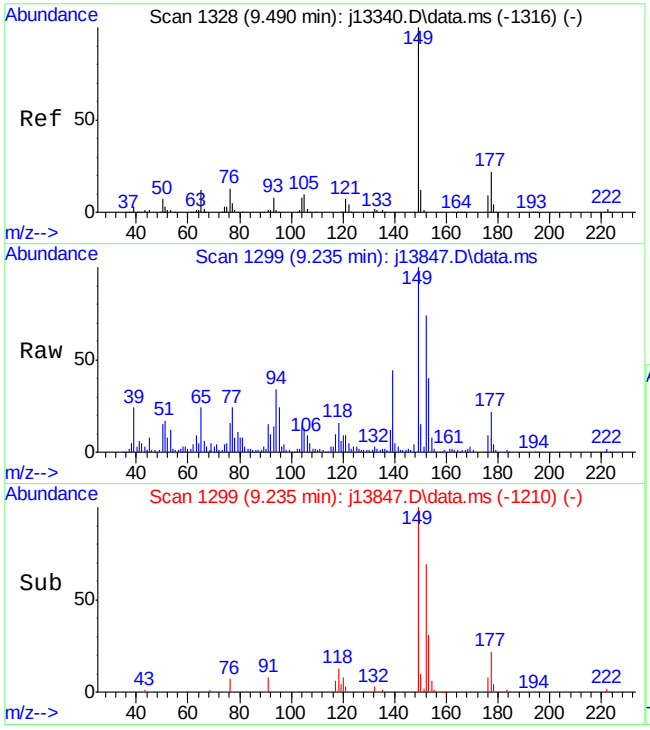
Tgt Ion:154 Resp: 1893411

Ion	Ratio	Lower	Upper
154	100		
153	105.7	87.9	127.9
152	50.2	31.3	71.3



8.1.2

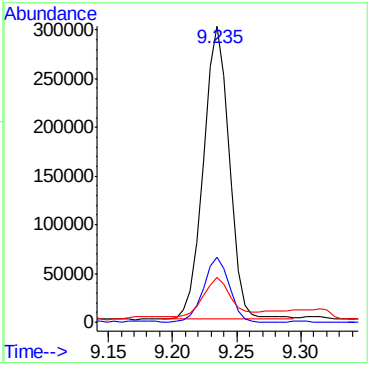
8

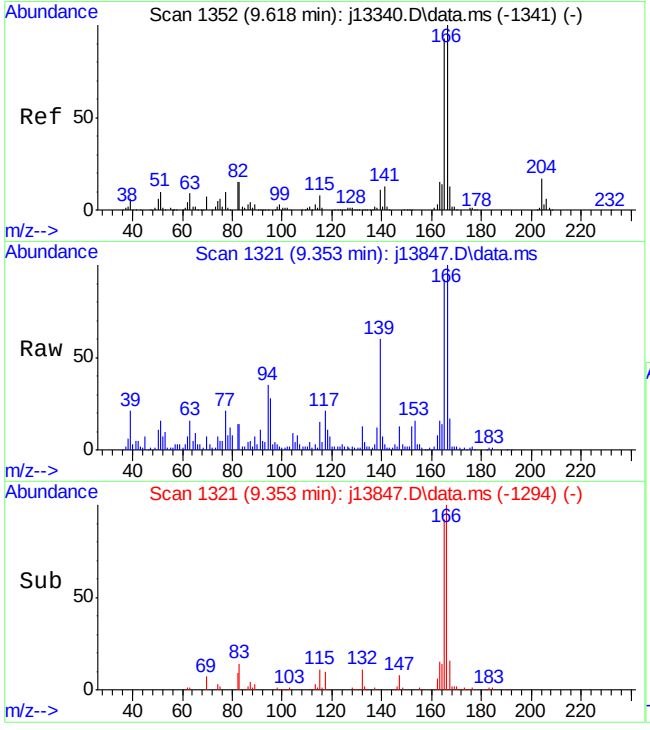


#53
Diethylphthalate
Concen: 10.39 ug/ml
RT: 9.235 min Scan# 1299
Delta R.T. -0.021 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:149 Resp: 419755

Ion	Ratio	Lower	Upper
149	100		
177	21.5	2.2	42.2
150	13.9	0.0	32.2

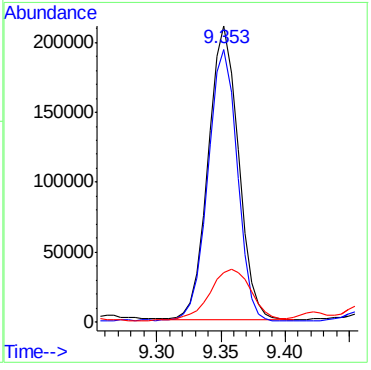




#54
Fluorene
Concen: 8.52 ug/ml
RT: 9.353 min Scan# 1321
Delta R.T. -0.054 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

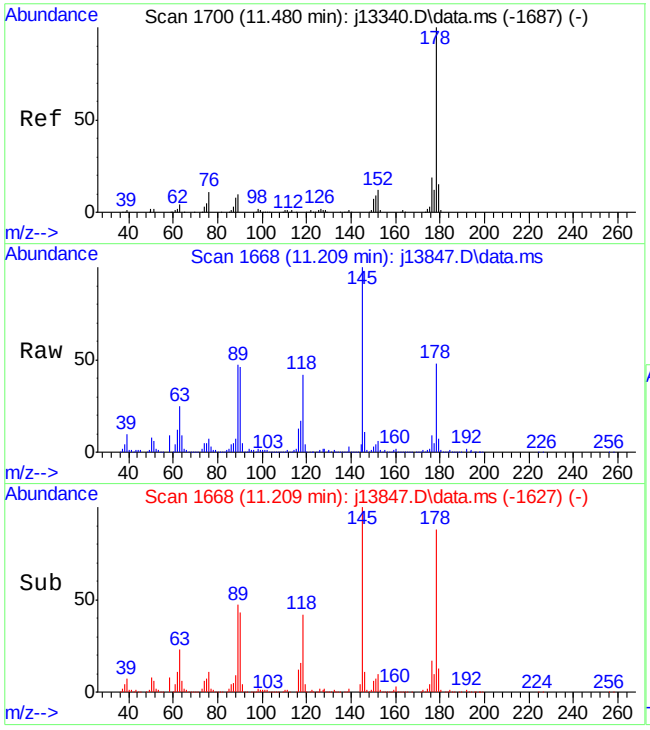
Tgt Ion:166 Resp: 342155

Ion	Ratio	Lower	Upper
166	100		
165	89.0	73.8	113.8
167	23.9	0.0	33.3



8.1.2

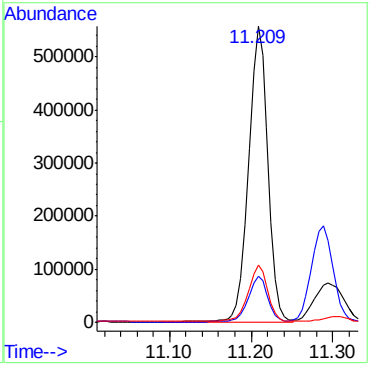
8

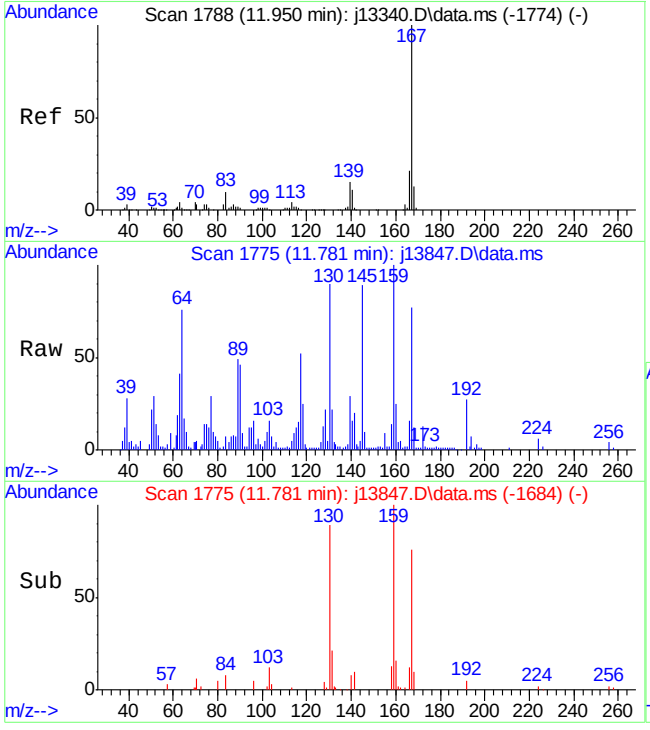


#66
Phenanthrene
Concen: 16.05 ug/ml
RT: 11.209 min Scan# 1668
Delta R.T. 0.022 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:178 Resp: 918305

Ion	Ratio	Lower	Upper
178	100		
179	15.8	0.0	35.2
176	19.3	0.0	38.8

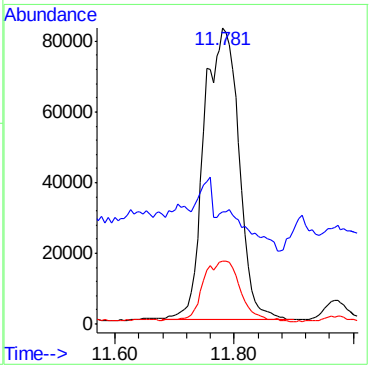




#68
Carbazole
Concen: 7.56 ug/ml
RT: 11.781 min Scan# 1775
Delta R.T. -0.013 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:167 Resp: 335158

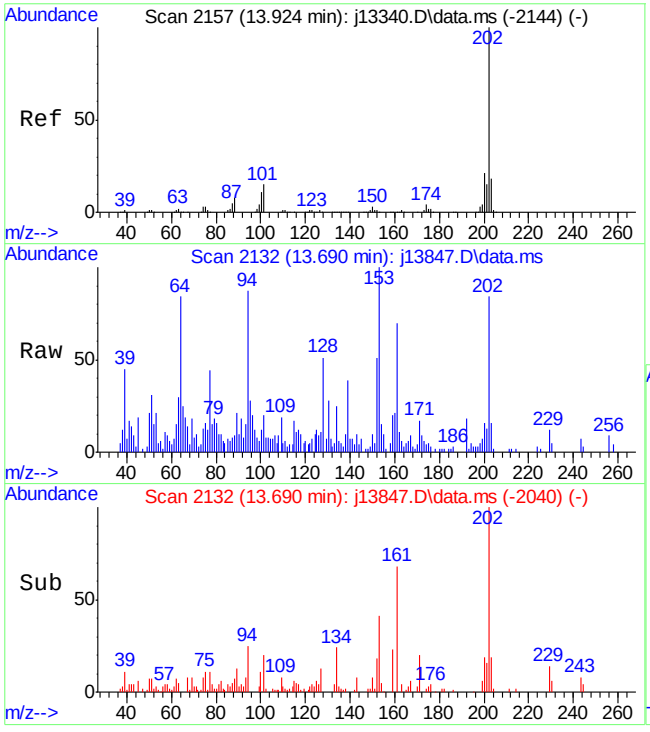
Ion	Ratio	Lower	Upper
167	100		
139	0.0	0.0	34.1
166	22.0	0.9	40.9



8.1.2

8

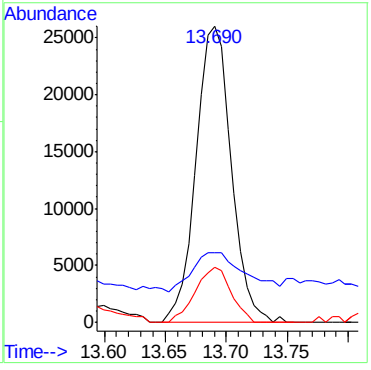
ACCUTEST Laboratories T39646

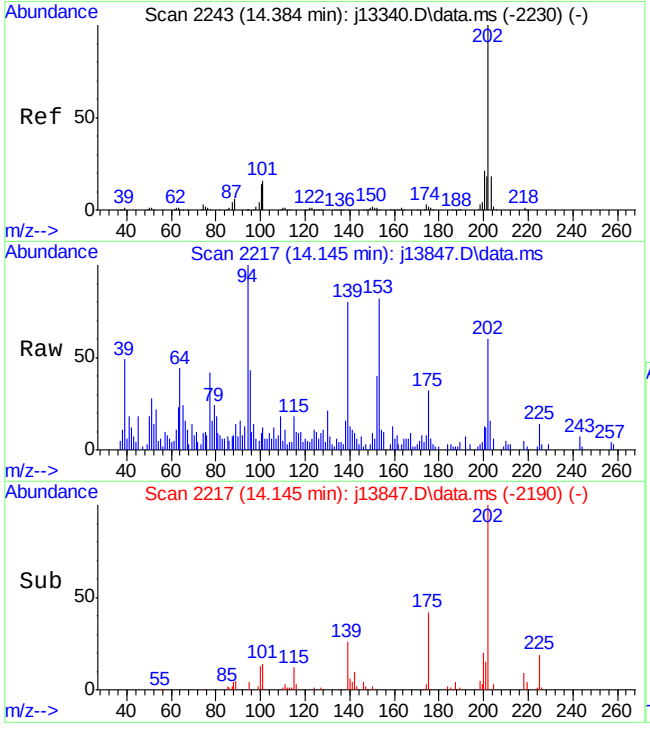


#70
Fluoranthene
Concen: 1.00 ug/ml
RT: 13.690 min Scan# 2132
Delta R.T. -0.010 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:202 Resp: 52035

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	33.9
203	0.0	0.0	37.3

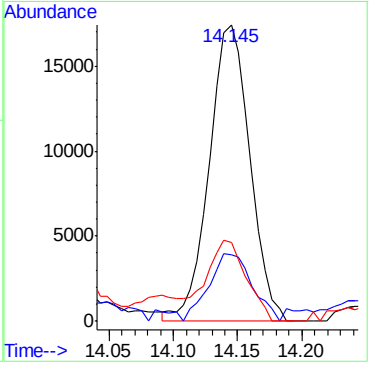




#73
Pyrene
Concen: 1.19 ug/ml
RT: 14.145 min Scan# 2217
Delta R.T. -0.056 min
Lab File: j13847.D
Acq: 15 Oct 2009 3:50 pm

Tgt Ion:202 Resp: 38198

Ion	Ratio	Lower	Upper
202	100		
200	0.0	0.5	40.5#
203	0.0	0.0	37.8



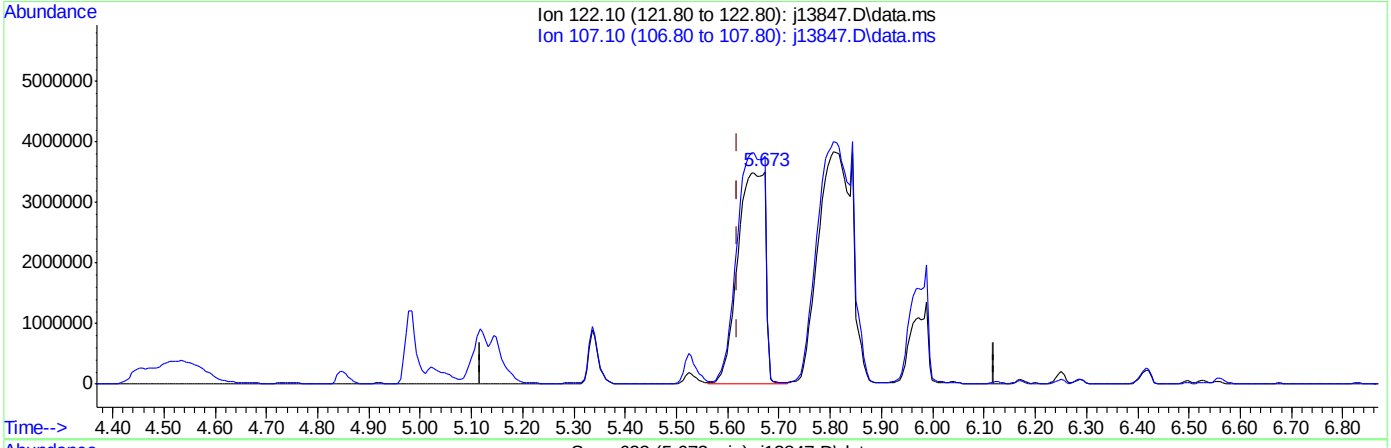
8.1.2

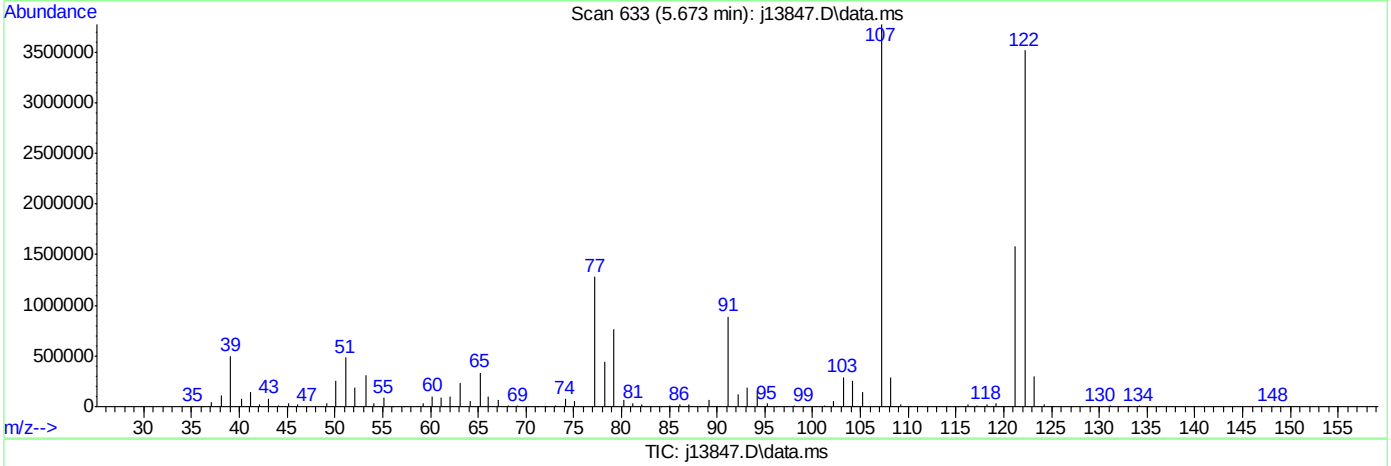
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 16 11:55:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





(25) 2,4-Dimethylphenol

5.673min (+0.054) 879.95ug/ml m

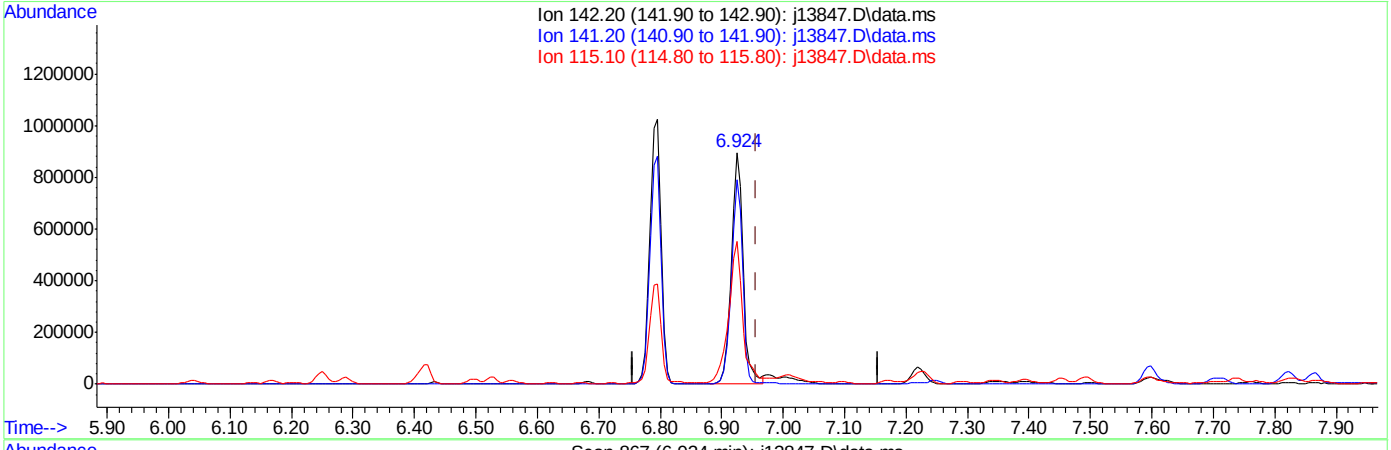
response 13238615

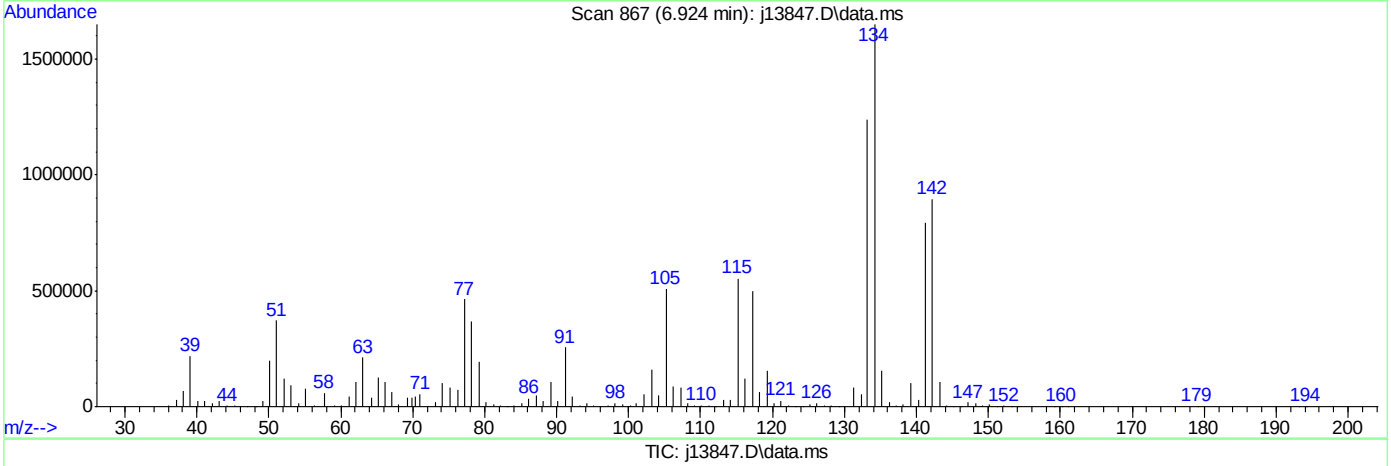
Ion	Exp%	Act%
122.10	100	100
107.10	116.30	144.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 16 11:55:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13847.D\data.ms

(35) 1-Methylnaphthalene

6.924min (-0.032) 35.91ug/ml m

response 1202320

Ion	Exp%	Act%
142.20	100	100
141.20	89.40	91.93
115.10	38.90	39.26
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13847.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.132	156	158	178	rBV	452850	744180	1.02%	0.157%
2	3.560	232	238	247	rBV2	328965	837547	1.14%	0.177%
3	3.726	266	269	274	rBV2	1496352	2217156	3.03%	0.469%
4	4.106	336	340	356	rBV2	310939	832811	1.14%	0.176%
5	4.459	398	406	409	rVV	1428793	3339748	4.56%	0.707%
6	4.501	410	414	429	rVV4	2842765	11590168	15.82%	2.452%
7	4.592	429	431	442	rVB	1958145	2765256	3.78%	0.585%
8	4.705	448	452	461	rBV	2840822	3284062	4.48%	0.695%
9	4.860	474	481	488	rBV2	3505235	4827896	6.59%	1.021%
10	4.919	488	492	498	rBV	777223	1272331	1.74%	0.269%
11	4.977	498	503	509	rBV	7244505	11513166	15.72%	2.436%
12	5.116	519	529	532	rBV5	4032078	10159550	13.87%	2.149%
13	5.143	532	534	543	rVB	2958666	4388907	5.99%	0.929%
14	5.336	564	570	580	rVV2	5877038	8417522	11.49%	1.781%
15	5.523	600	605	612	rBV2	1689883	2686749	3.67%	0.568%
16	5.646	612	628	630	rBV	17882701	50322291	68.70%	10.646%
17	5.694	635	637	645	rVV	1230769	2351252	3.21%	0.497%
18	5.812	645	659	664	rVV2	17476481	73251435	100.00%	15.497%
19	5.844	664	665	671	rVB	17324167	10902736	14.88%	2.307%
20	5.962	676	687	691	rBV3	19002327	50034971	68.31%	10.586%
21	5.988	691	692	694	rVB	18583696	6976774	9.52%	1.476%
22	6.020	694	698	701	rBV	3092022	3270644	4.46%	0.692%
23	6.170	715	726	730	rBV	2703257	3717384	5.07%	0.786%
24	6.250	735	741	745	rVV	5742885	7200994	9.83%	1.523%
25	6.288	745	748	752	rVV	2532674	2814912	3.84%	0.596%
26	6.331	752	756	765	rVB	1727825	2706837	3.70%	0.573%
27	6.416	765	772	780	rBV	8812782	12979438	17.72%	2.746%
28	6.496	780	787	790	rBV	2318760	3255906	4.44%	0.689%
29	6.528	790	793	796	rVV	3030110	3676839	5.02%	0.778%
30	6.555	796	798	804	rVV	1909988	2466823	3.37%	0.522%
31	6.673	815	820	825	rBV	1632044	2233385	3.05%	0.473%
32	6.758	832	836	838	rVV	650712	961166	1.31%	0.203%
33	6.796	838	843	856	rVB	4361549	7599886	10.38%	1.608%
34	6.924	856	867	875	rBV4	11434721	23661544	32.30%	5.006%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	7.090	894	898	902	rBV2	518242	755793	1.03%	0.160%
36	7.144	902	908	915	rBV7	453102	1368718	1.87%	0.290%
37	7.224	916	923	928	rVB3	755850	1891395	2.58%	0.400%
38	7.315	931	940	944	rBV	1651407	3104920	4.24%	0.657%
39	7.454	962	966	969	rBV2	839162	1163130	1.59%	0.246%
40	7.491	969	973	982	rVB4	1637004	3809254	5.20%	0.806%
41	7.598	988	993	999	rVB	934436	1574518	2.15%	0.333%
42	7.662	999	1005	1011	rBV	1431335	2219752	3.03%	0.470%
43	7.737	1015	1019	1021	rBV	679289	865154	1.18%	0.183%
44	7.775	1021	1026	1031	rVB	1830729	2861852	3.91%	0.605%
45	7.834	1031	1037	1041	rBV4	650836	1253104	1.71%	0.265%
46	8.031	1070	1074	1083	rVB	1365328	2272589	3.10%	0.481%
47	8.165	1092	1099	1106	rVB	1838770	3294139	4.50%	0.697%
48	8.379	1133	1139	1143	rBV	3708498	6032692	8.24%	1.276%
49	8.438	1144	1150	1155	rBV	6252691	9784373	13.36%	2.070%
50	8.529	1159	1167	1171	rBV	5797048	11029227	15.06%	2.333%
51	8.673	1185	1194	1201	rBV4	8940389	28613565	39.06%	6.054%
52	8.834	1222	1224	1226	rVB	2384367	1542982	2.11%	0.326%
53	8.893	1228	1235	1252	rVB4	3241010	8800884	12.01%	1.862%
54	9.235	1296	1299	1303	rBV	704900	925772	1.26%	0.196%
55	9.358	1317	1322	1325	rBV2	705232	1319142	1.80%	0.279%
56	9.775	1395	1400	1406	rVB4	473914	856061	1.17%	0.181%
57	9.834	1407	1411	1415	rBV3	496053	966843	1.32%	0.205%
58	10.374	1496	1512	1516	rVB3	1838406	7515677	10.26%	1.590%
59	10.535	1536	1542	1547	rVB3	703413	1456077	1.99%	0.308%
60	10.759	1577	1584	1590	rBV	1157467	2821840	3.85%	0.597%
61	10.823	1592	1596	1602	rVV	587971	1297774	1.77%	0.275%
62	11.166	1655	1660	1665	rBV2	2868822	5144105	7.02%	1.088%
63	11.834	1777	1785	1787	rBV	1893135	3666807	5.01%	0.776%
64	13.562	2101	2108	2114	rBV	1348960	2863777	3.91%	0.606%
65	14.038	2193	2197	2211	rVB2	450143	1149800	1.57%	0.243%
66	14.247	2230	2236	2253	rVB2	368038	1299038	1.77%	0.275%
67	14.637	2304	2309	2316	rVB	511398	955534	1.30%	0.202%
68	16.365	2625	2632	2638	rBV	984506	1705115	2.33%	0.361%
69	16.723	2692	2699	2707	rVV	1288888	2644751	3.61%	0.560%
70	16.969	2739	2745	2758	rVV3	282568	825234	1.13%	0.175%
71	17.097	2760	2769	2783	rVB5	294621	890234	1.22%	0.188%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 6000 Area counts
Start Thrs: 0.2                         Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
```

72	17.461	2830	2837	2844	rBV	648164	1267161	1.73%	0.268%
73	19.499	3210	3218	3236	rVB	660324	1597491	2.18%	0.338%

Sum of corrected areas: 472668540

8.1.3

8

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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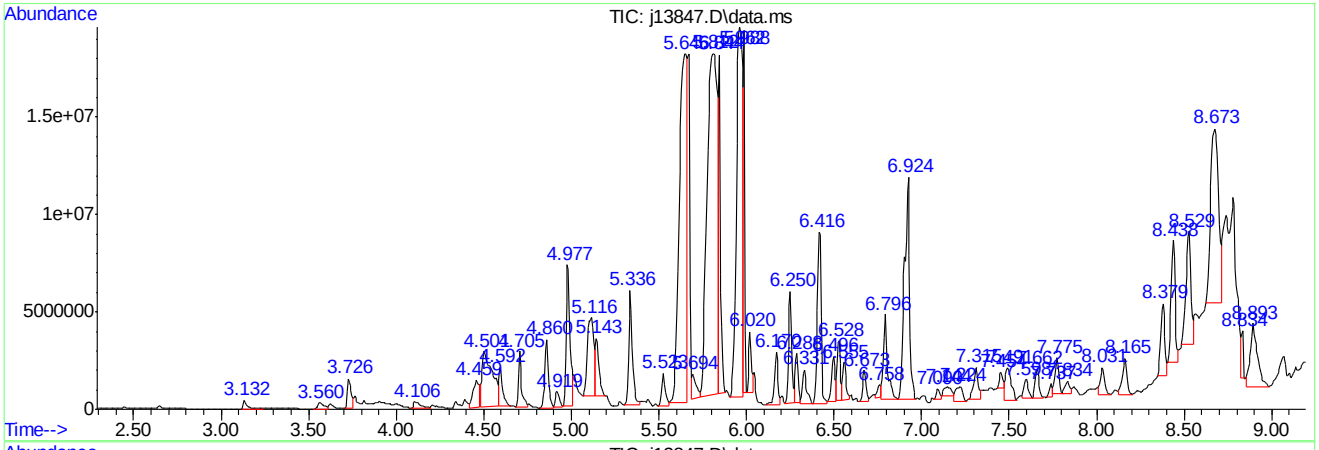
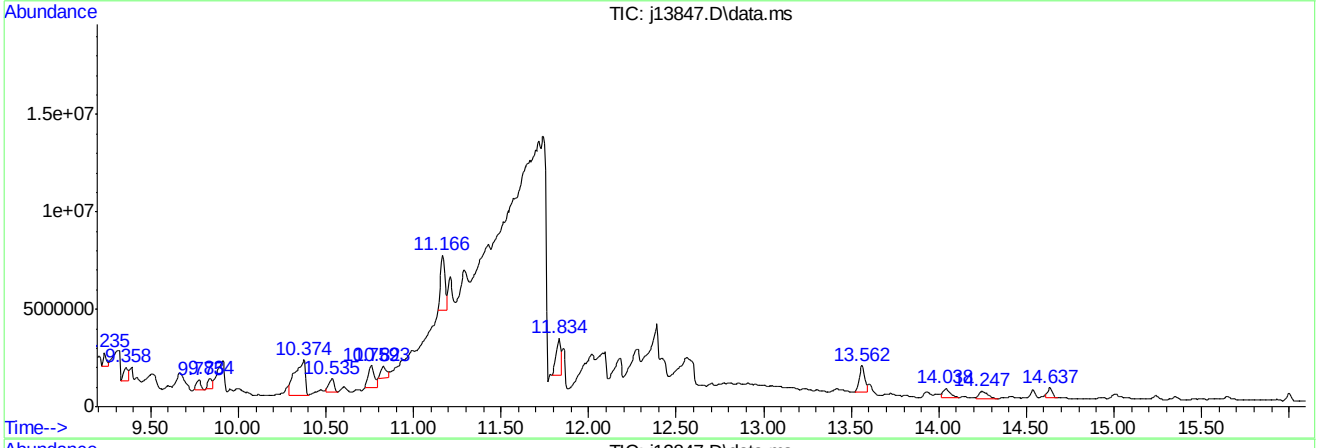
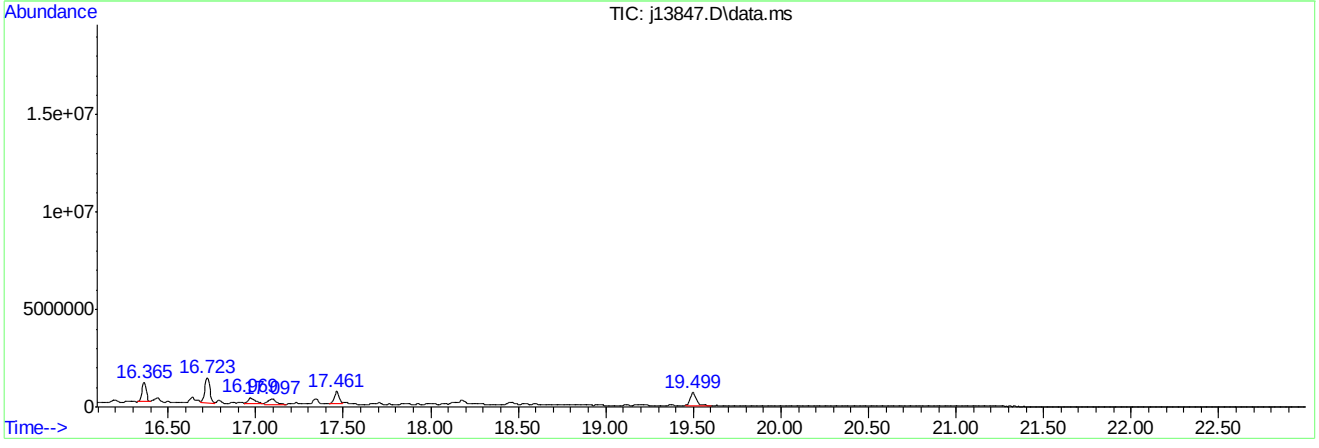






Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

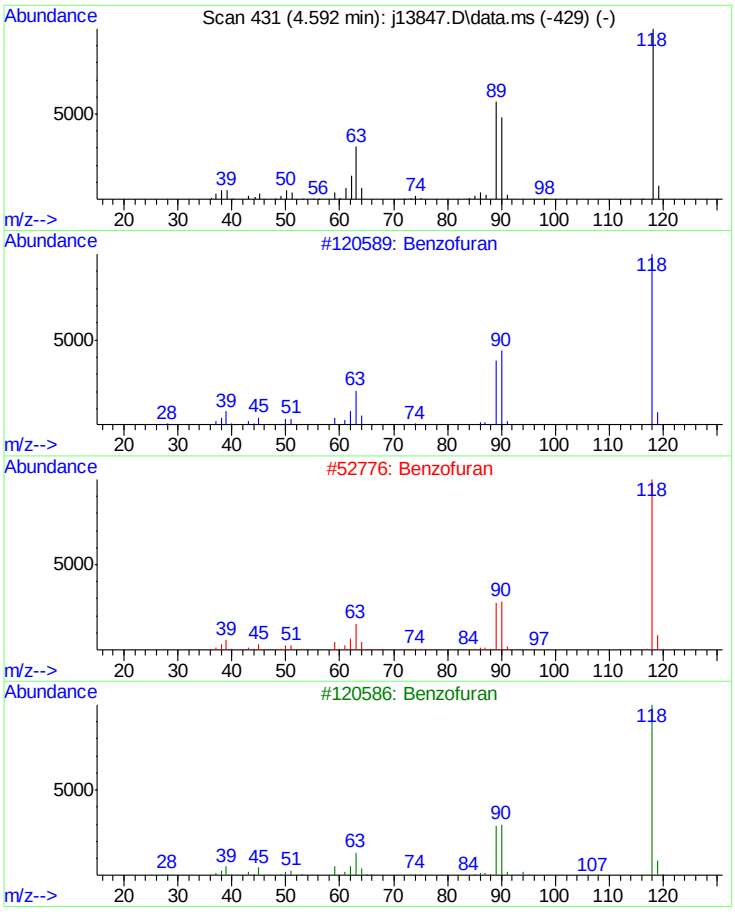
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

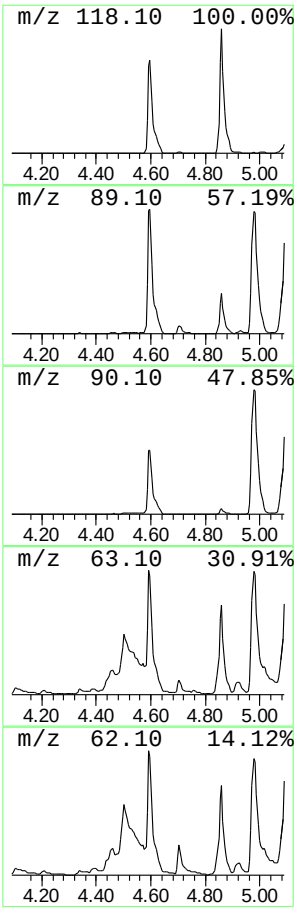
****

Peak Number 1 Benzofuran Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.592	33.68 ug/ml	2765260	1,4-Dichlorobenzene-d4	4.705

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	94
2	Benzofuran	118	C8H6O	000271-89-6	91
3	Benzofuran	118	C8H6O	000271-89-6	91
4	Benzofuran	118	C8H6O	000271-89-6	91
5	Benzofuran	118	C8H6O	000271-89-6	83





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

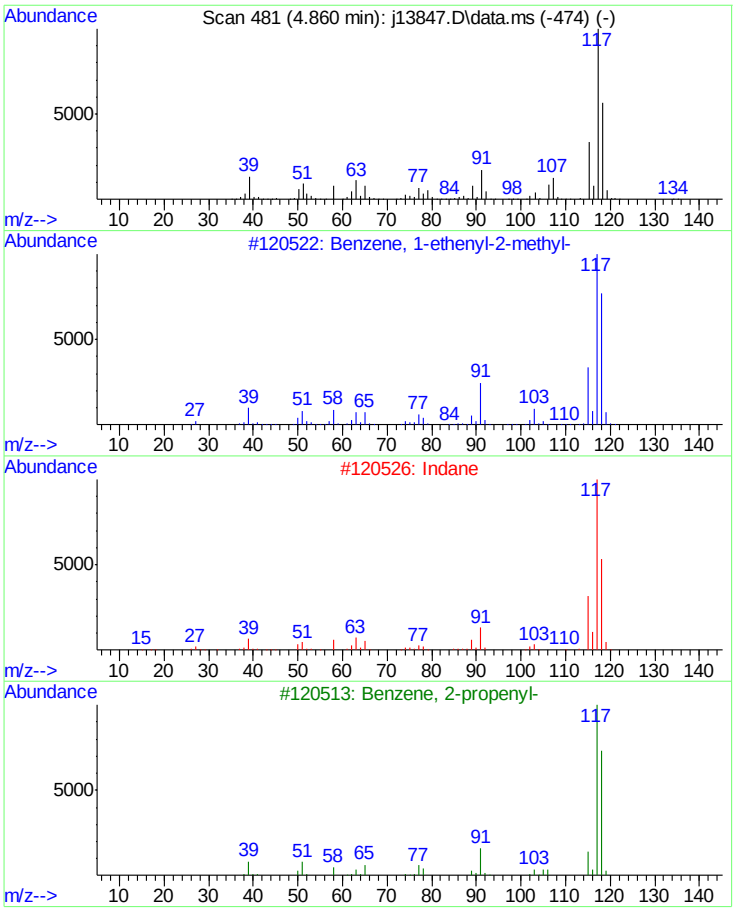
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

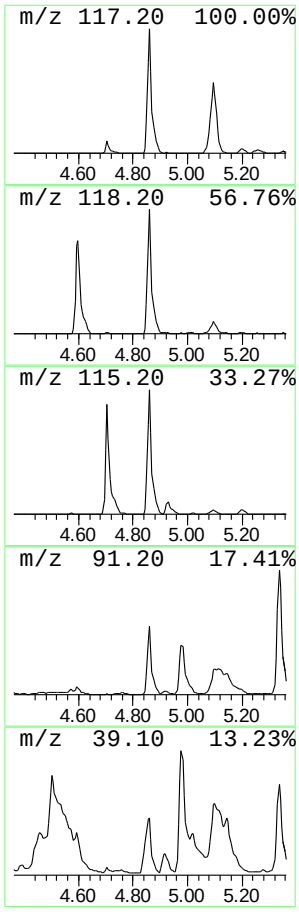
****

Peak Number 2 Benzene, 1-ethenyl-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.860	58.80 ug/ml	4827900	1,4-Dichlorobenzene-d4	4.705

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	76
2	Indane	118	C9H10	000496-11-7	76
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

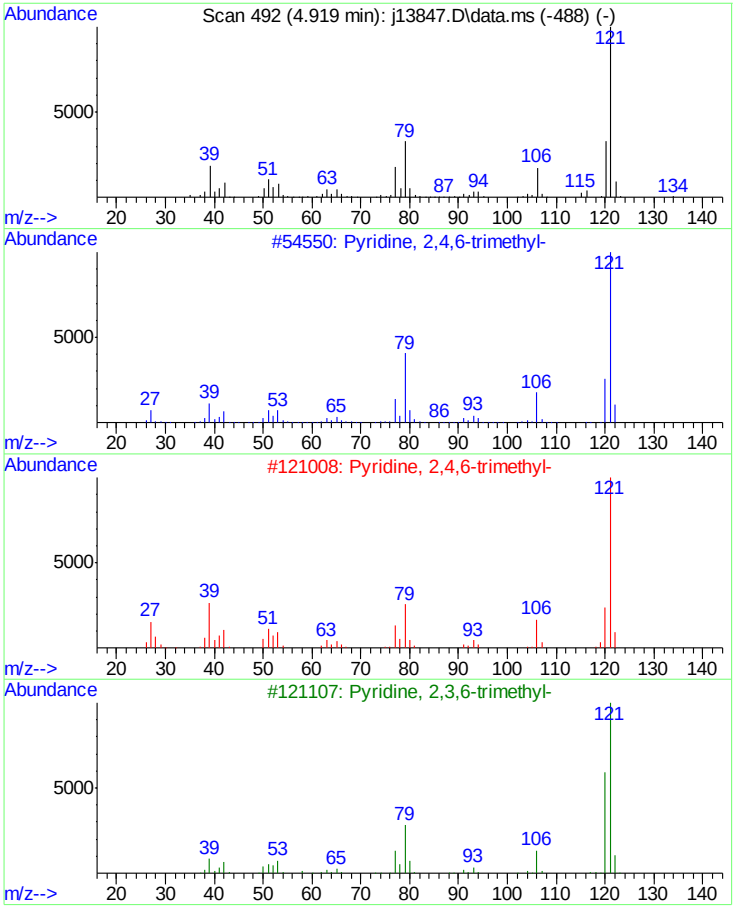
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

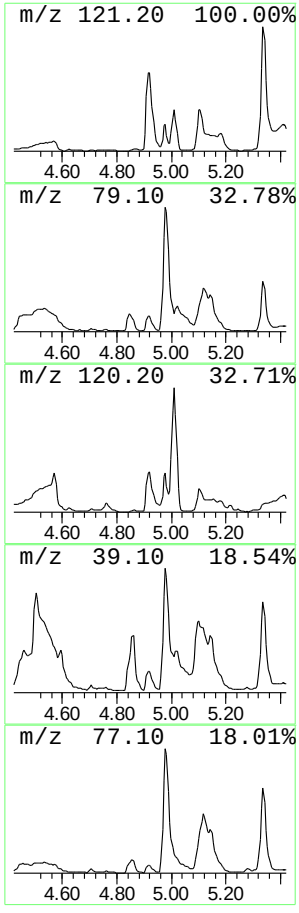
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Pyridine, 2,4,6-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.919	15.50 ug/ml	1272330	1,4-Dichlorobenzene-d4	4.705

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4,6-trimethyl-	121	C8H11N	000108-75-8	90
2	Pyridine, 2,4,6-trimethyl-	121	C8H11N	000108-75-8	90
3	Pyridine, 2,3,6-trimethyl-	121	C8H11N	001462-84-6	68
4	Pyridine, 2,3,6-trimethyl-	121	C8H11N	001462-84-6	64
5	Benzenamine, 3,5-dimethyl-	121	C8H11N	000108-69-0	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

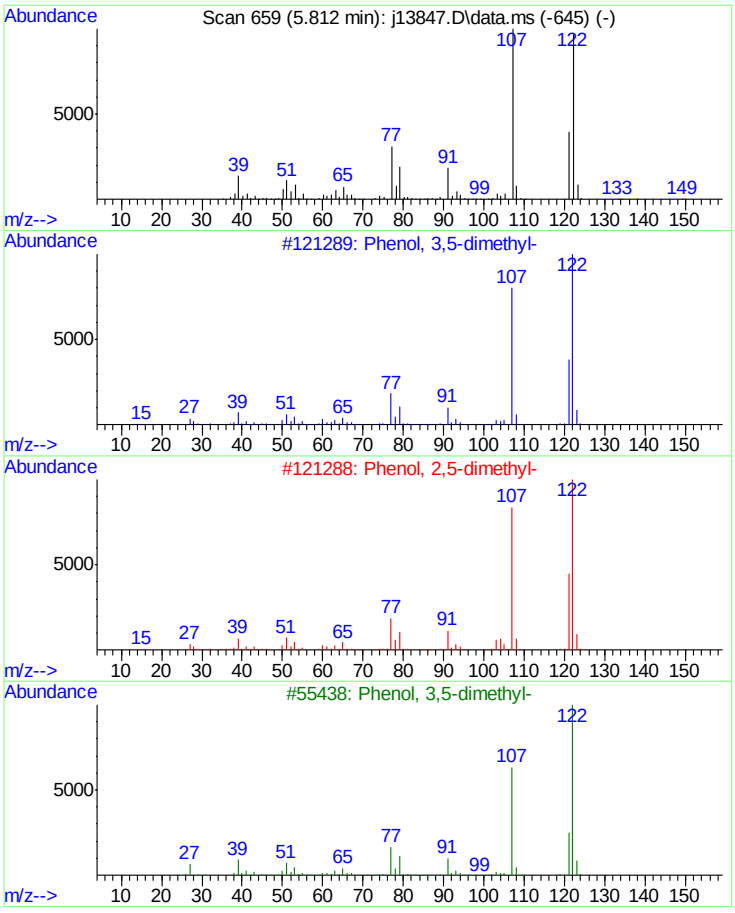
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

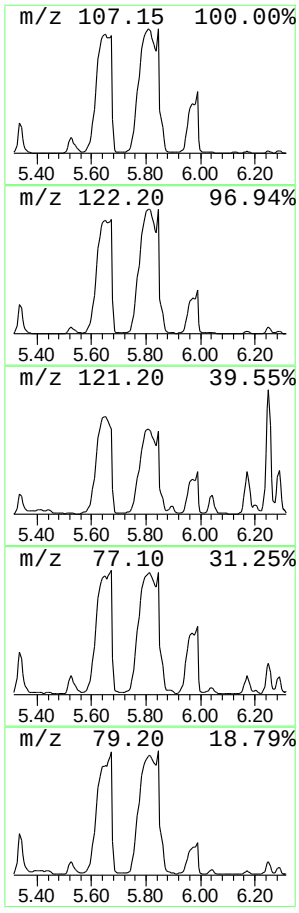
****

Peak Number 4 Phenol, 3,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.812	58.56 ug/ml	73251400	Naphthalene-d8	5.945

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	96
2	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	93
4	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	90
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

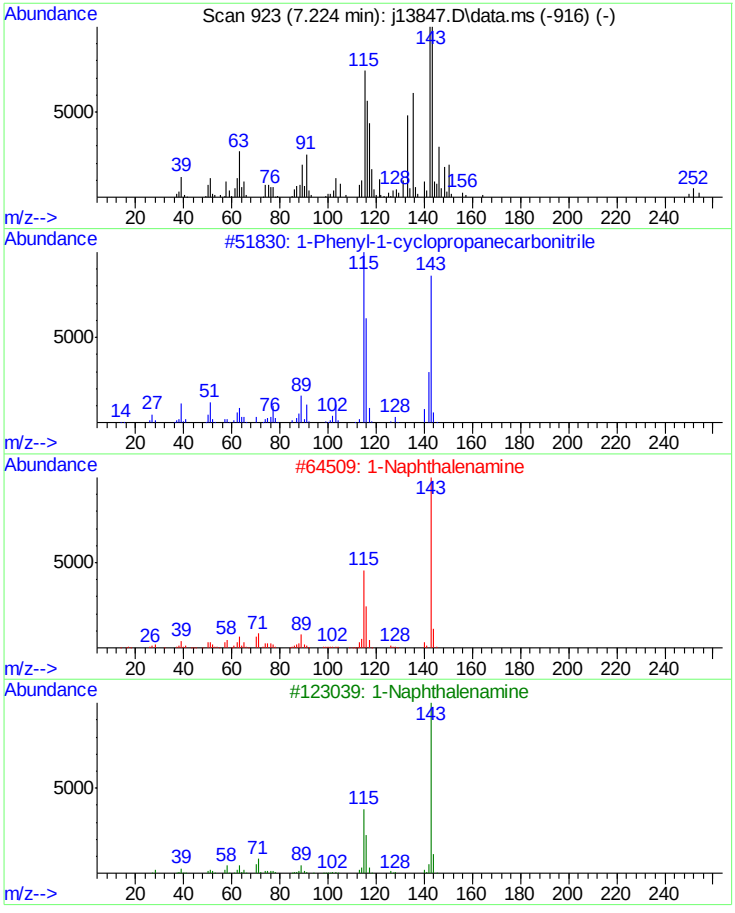
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

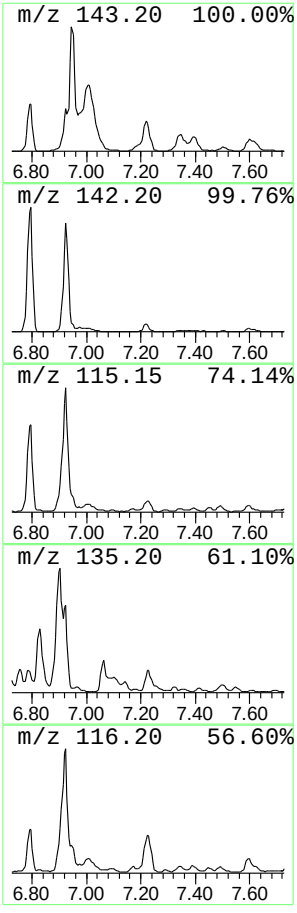
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1-Phenyl-1-cyclopropanecarb... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.224	12.54 ug/ml	1891400	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-cyclopropanecarbonitrile	143	C10H9N	000935-44-4	70
2	1-Naphthalenamine	143	C10H9N	000134-32-7	46
3	1-Naphthalenamine	143	C10H9N	000134-32-7	46
4	Quinoline, 3-methyl-	143	C10H9N	000612-58-8	46
5	Cyclopropanecarbonitrile, 2-phen...	143	C10H9N	005590-14-7	46





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

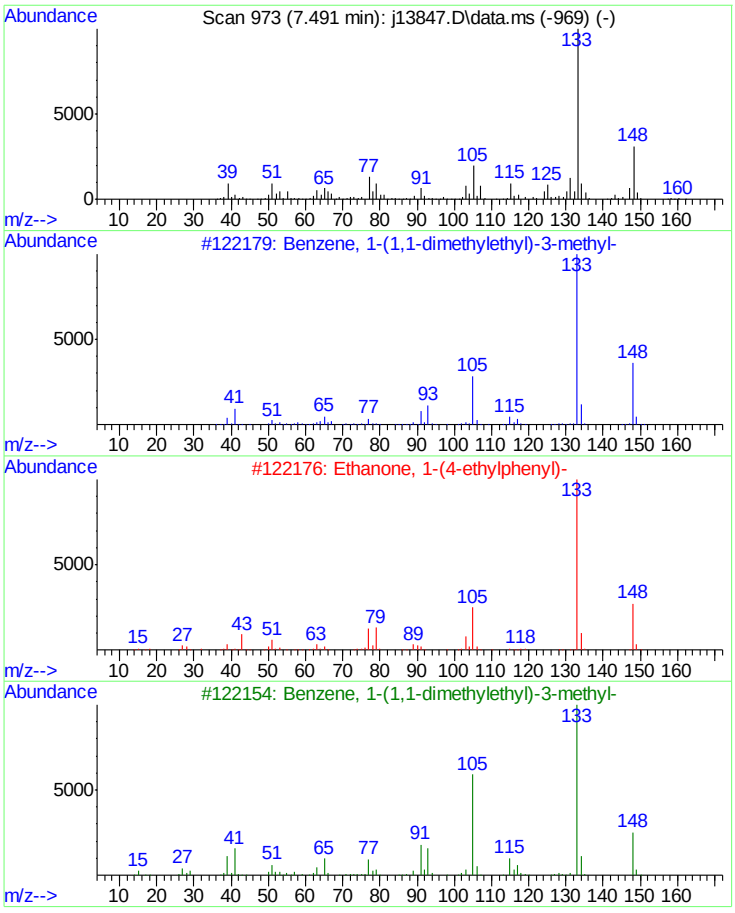
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

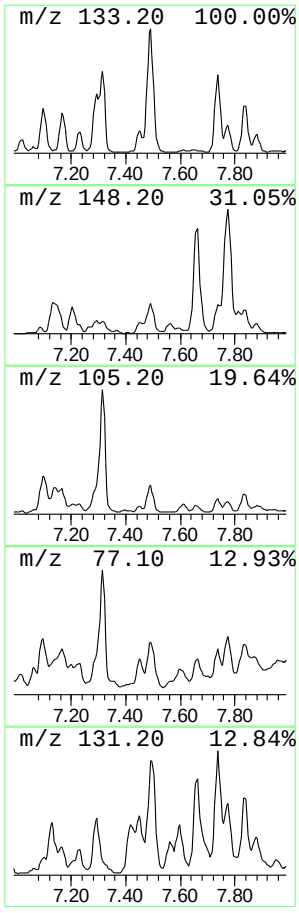
****

Peak Number 6 Benzene, 1-(1,1-dimethyleth... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.491	25.26 ug/ml	3809250	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	81
2	Ethanone, 1-(4-ethylphenyl)-	148	C10H12O	000937-30-4	72
3	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	72
4	Ethanone, 1-(2,4-dimethylphenyl)-	148	C10H12O	000089-74-7	70
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	64





Library Search Compound Report

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Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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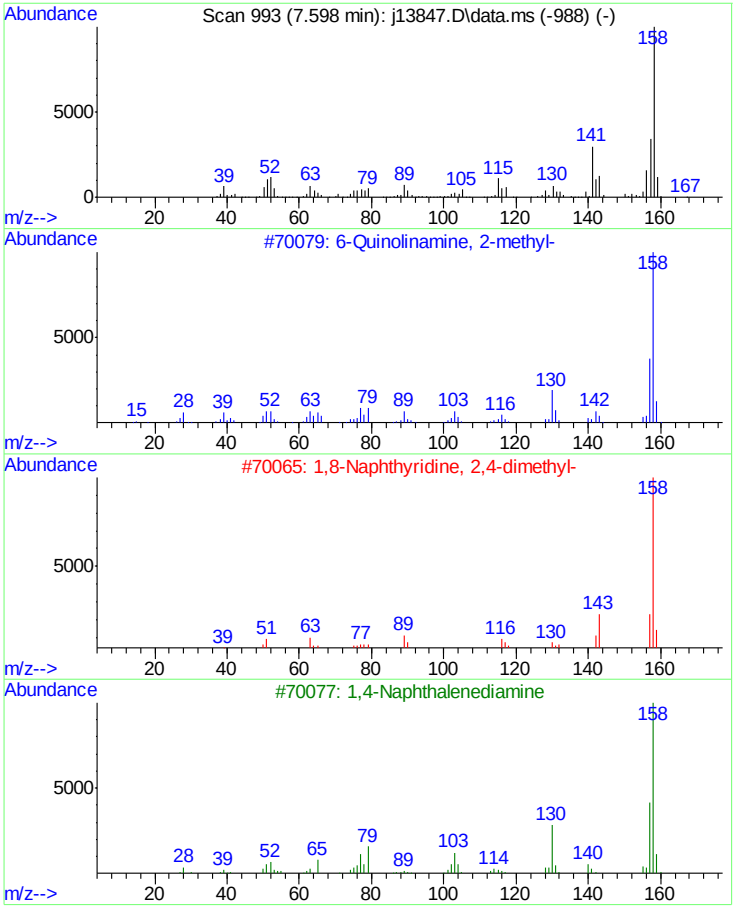
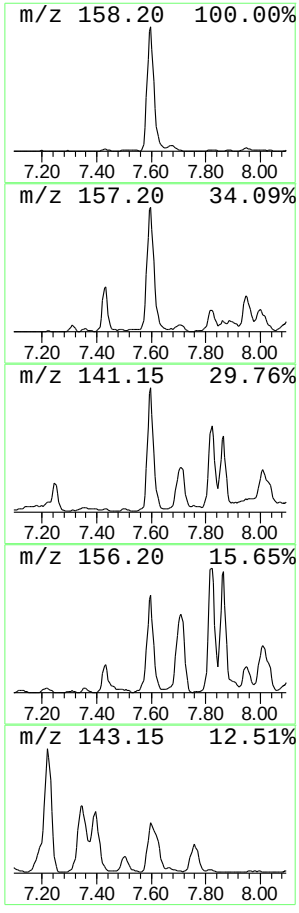
****

Peak Number 7 6-Quinolinamine, 2-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.598	10.44 ug/ml	1574520	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Quinolinamine, 2-methyl-	158	C10H10N2	065079-19-8	64
2	1,8-Naphthyridine, 2,4-dimethyl-	158	C10H10N2	007544-64-1	62
3	1,4-Naphthalenediamine	158	C10H10N2	002243-61-0	58
4	5,8-Dimethylquinoxaline	158	C10H10N2	064931-22-2	53
5	1H-Pyrazole, 3-methyl-5-phenyl-	158	C10H10N2	003347-62-4	50





Library Search Compound Report

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Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

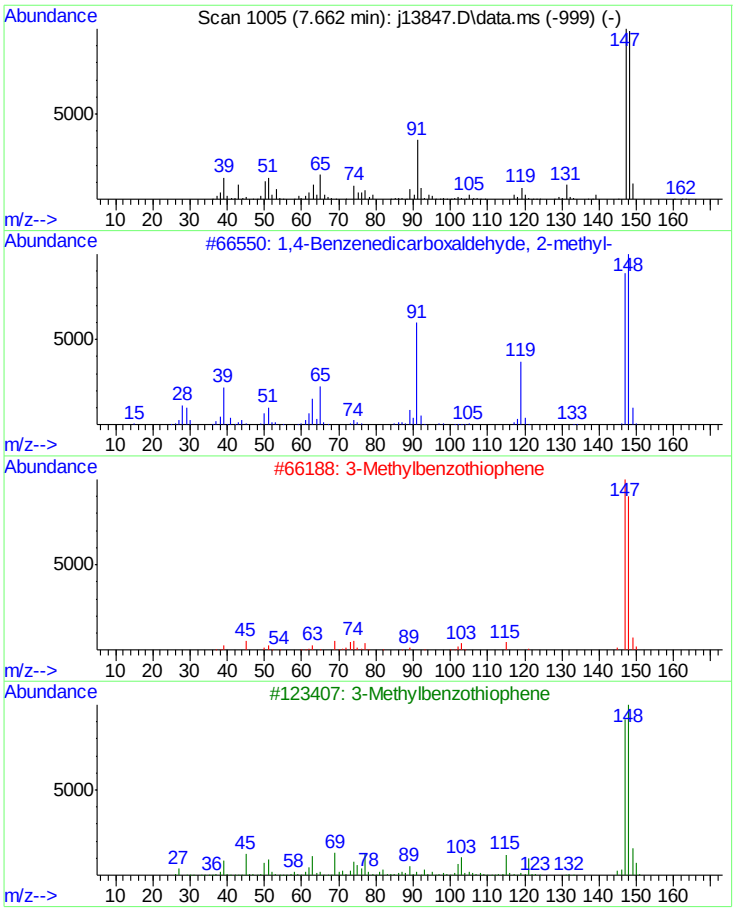
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

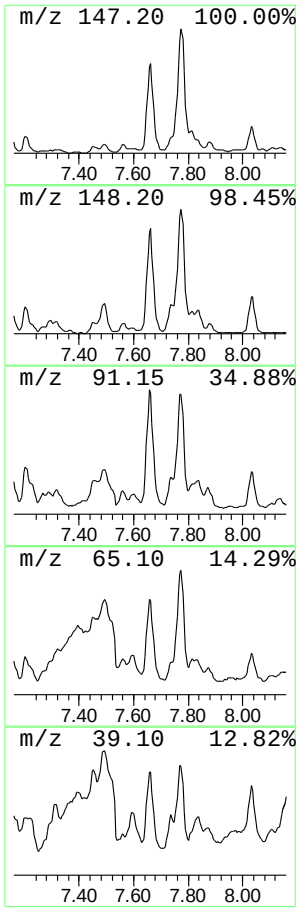
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1,4-Benzenedicarboxaldehyde... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.662	14.72 ug/ml	2219750	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxaldehyde, 2-m...	148	C9H8O2	027587-17-3	86
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	72
3	3-Methylbenzothiophene	148	C9H8S	001455-18-1	72
4	Pyrrole-2-carbonitrile, 5-formyl...	148	C8H8N2O	026187-38-2	64
5	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	64





Library Search Compound Report

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Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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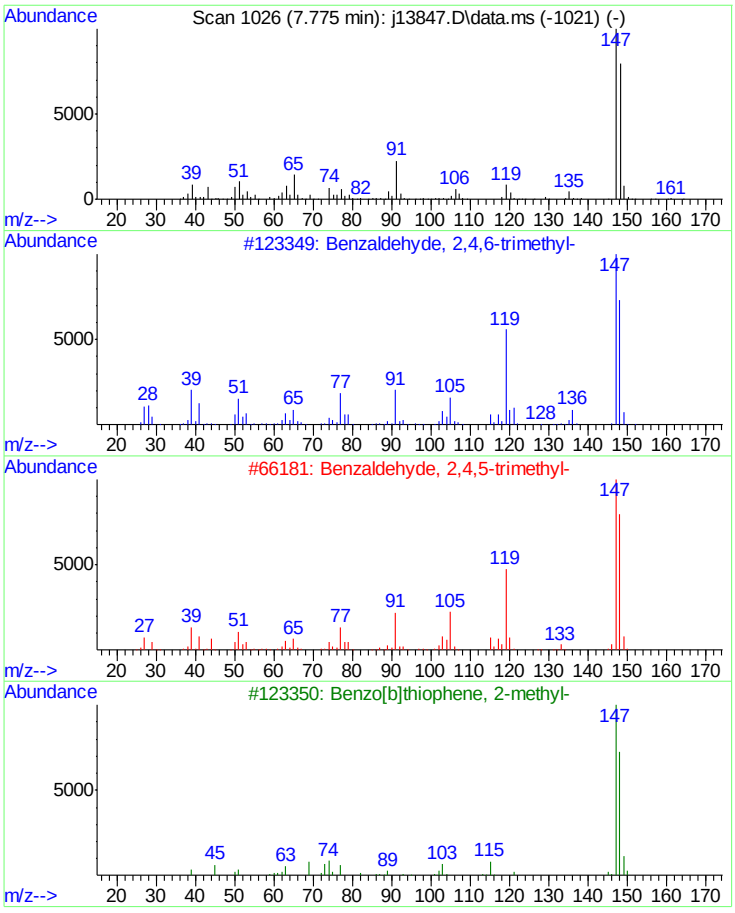
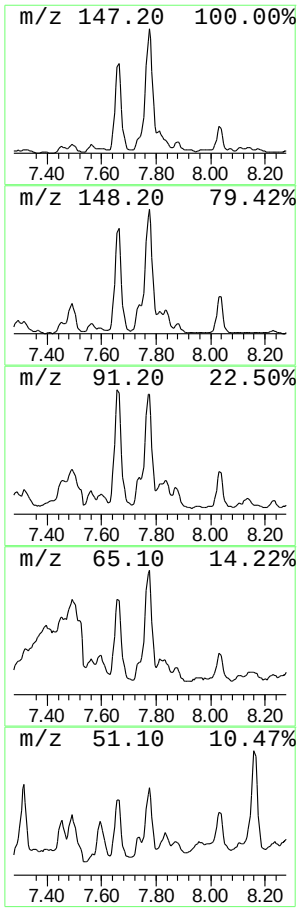
****

Peak Number 9 Benzaldehyde, 2,4,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.775	18.98 ug/ml	2861850	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2,4,6-trimethyl-	148	C10H12O	000487-68-3	72
2	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	72
3	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	59
4	2H-Benzimidazol-2-one, 1,3-dihyd...	148	C8H8N2O	005400-75-9	50
5	3-Methylbenzothiophene	148	C9H8S	001455-18-1	50





Library Search Compound Report

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Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

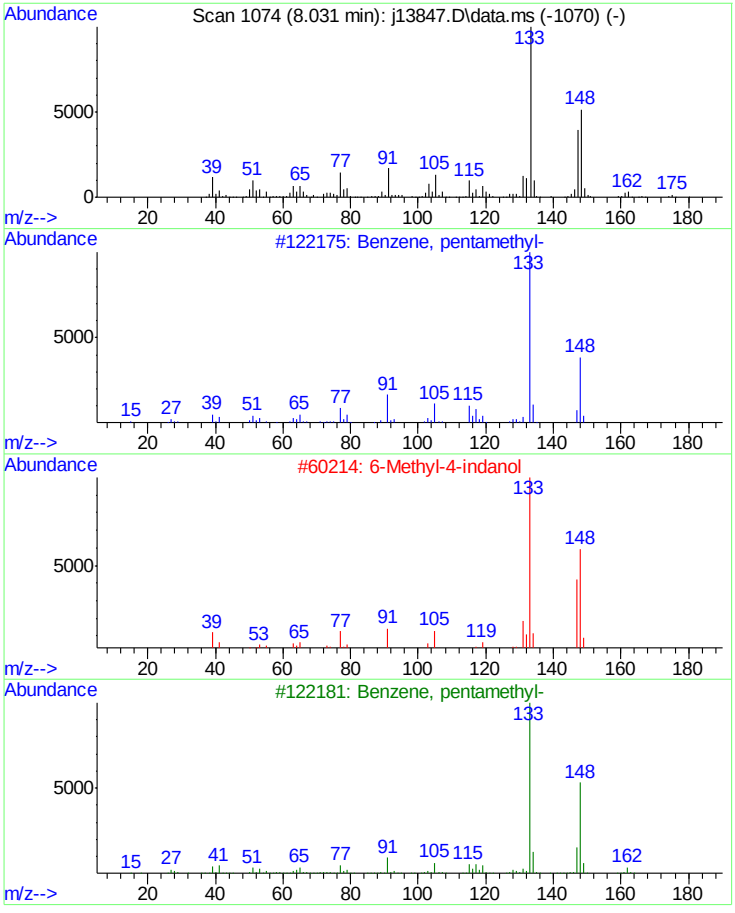
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

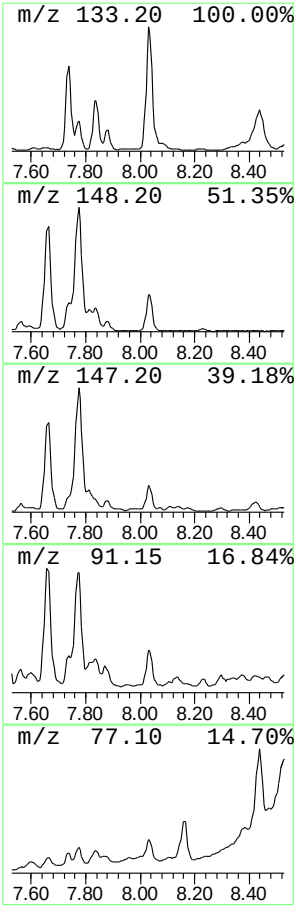
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Benzene, pentamethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.031	15.07 ug/ml	2272590	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, pentamethyl-	148	C11H16	000700-12-9	70
2	6-Methyl-4-indanol	148	C10H12O	020294-32-0	70
3	Benzene, pentamethyl-	148	C11H16	000700-12-9	64
4	Ethanone, 1-(2,4-dimethylphenyl)-	148	C10H12O	000089-74-7	64
5	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	62





Library Search Compound Report

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Acq On : 15 Oct 2009 3:50 pm
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Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

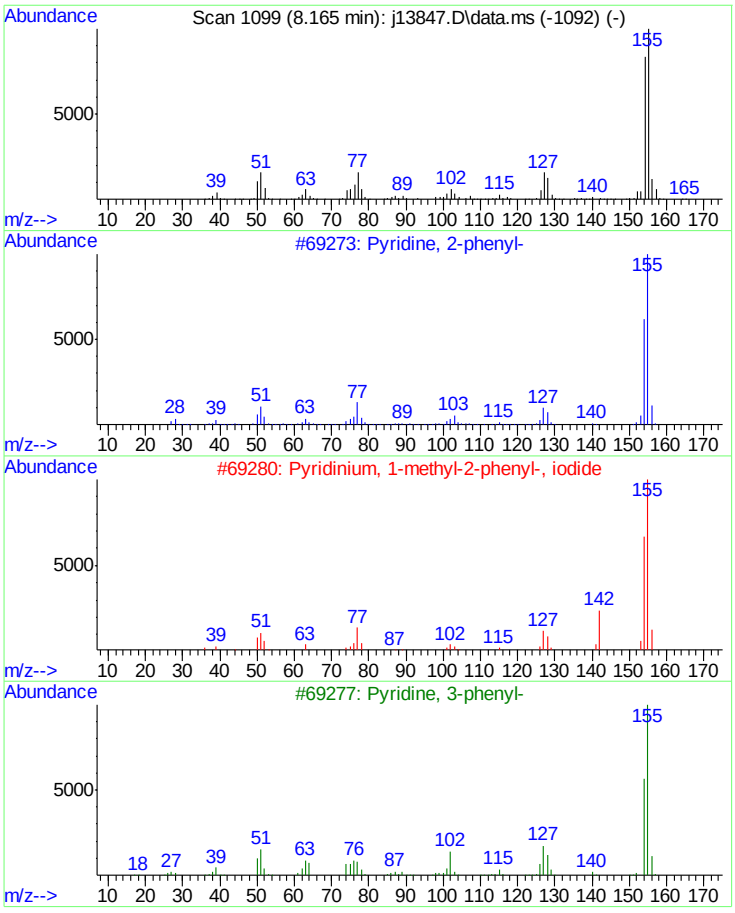
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

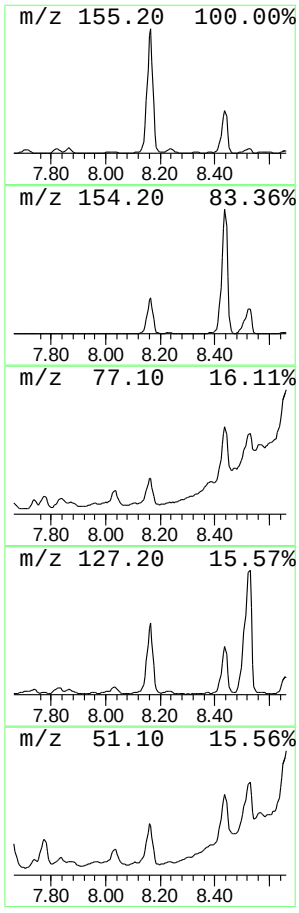
****

Peak Number 11 Pyridine, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.165	21.84 ug/ml	3294140	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-phenyl-	155	C11H9N	001008-89-5	91
2	Pyridinium, 1-methyl-2-phenyl-, ...	297	C12H12IN	052806-02-7	83
3	Pyridine, 3-phenyl-	155	C11H9N	001008-88-4	70
4	Pyridine, 4-phenyl-	155	C11H9N	000939-23-1	52
5	Pyridine, 3-phenyl-	155	C11H9N	001008-88-4	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
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Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 2-Naphthalenecarbonitrile Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.529	73.13 ug/ml	11029200	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	94
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	90
3	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	90
4	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	90
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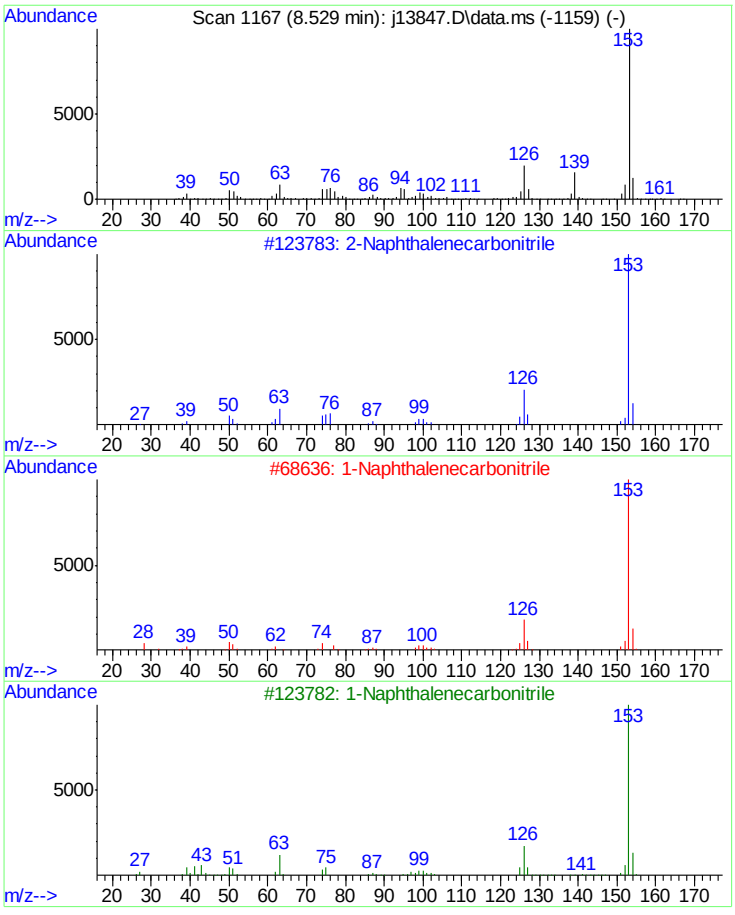

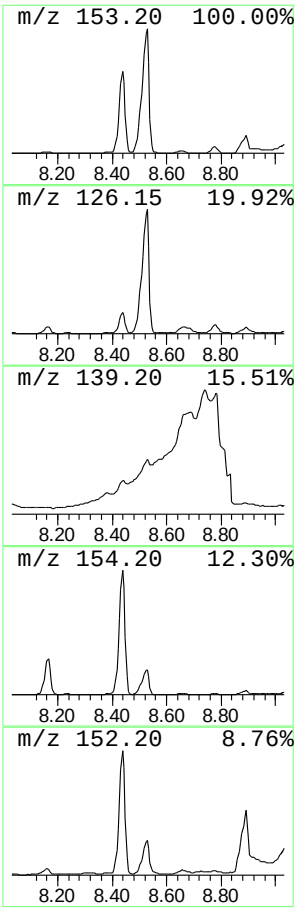

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
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Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 13 1-Naphthalenol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.673	189.72 ug/ml	28613600	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	95
3	2-Naphthalenol	144	C10H8O	000135-19-3	92
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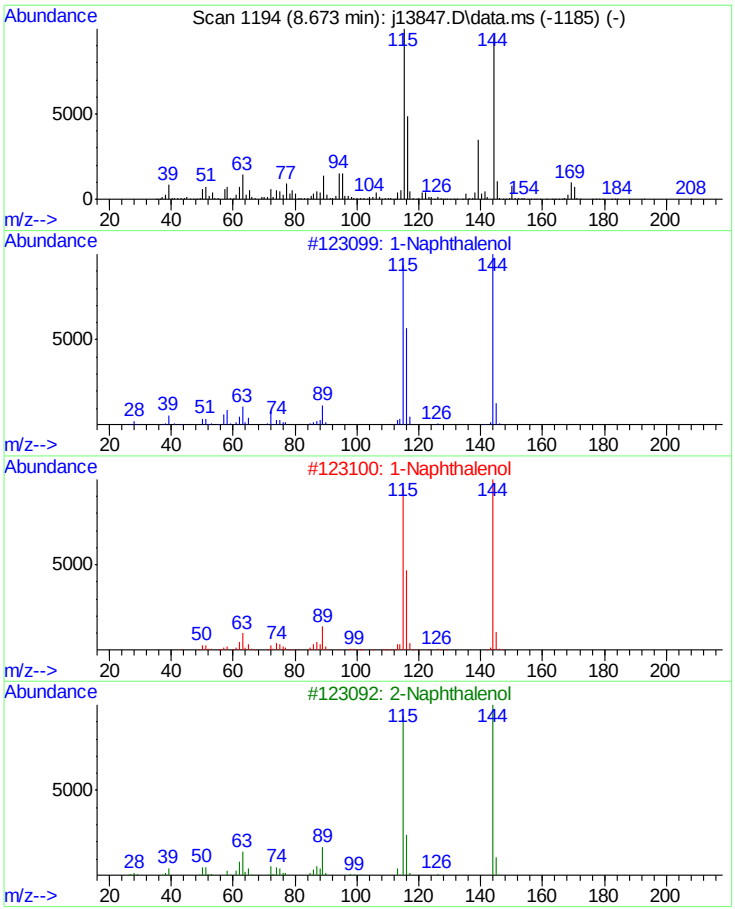

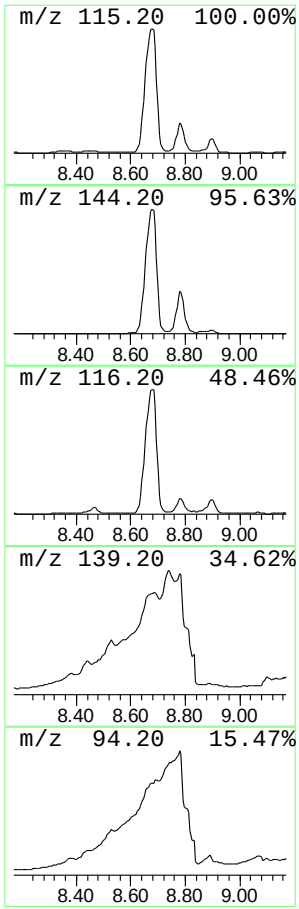

Library Search Compound Report

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Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

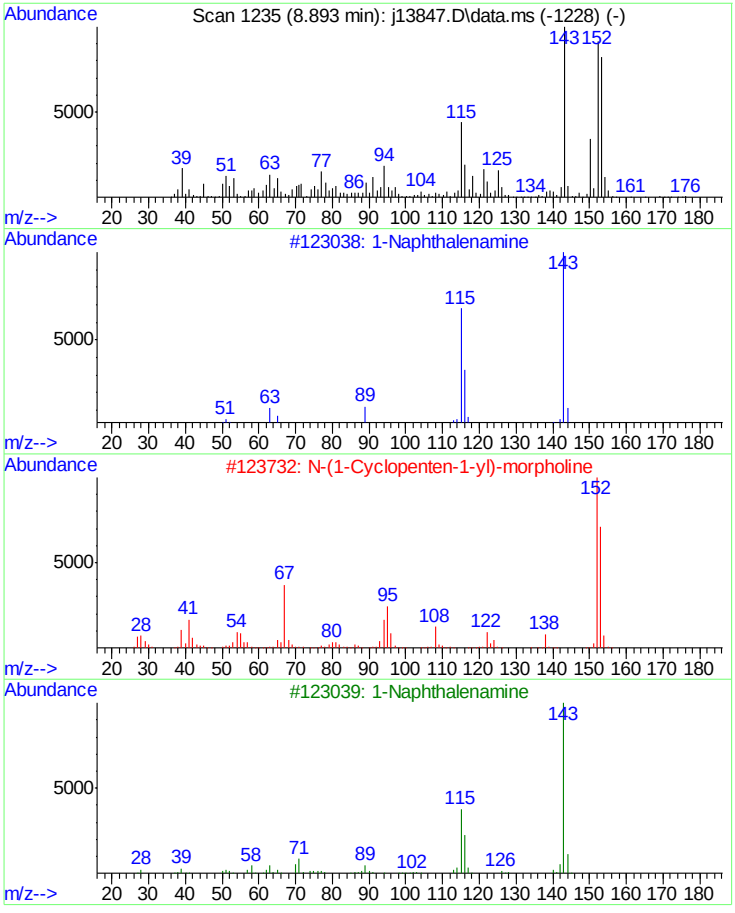
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

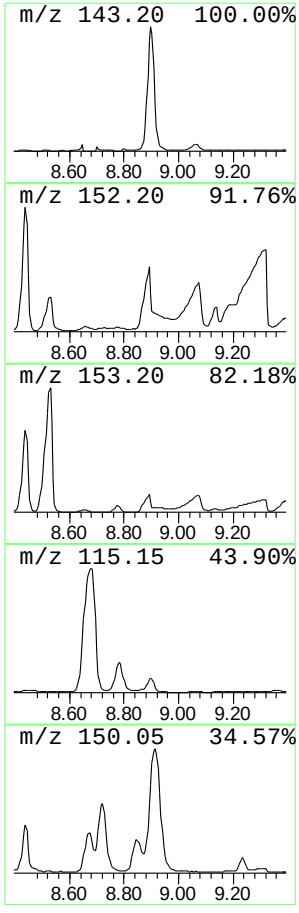
****

Peak Number 14 1-Naphthalenamine Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.893	58.35 ug/ml	8800880	Acenaphthene-d10	8.379

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenamine	143	C10H9N	000134-32-7	47
2	N-(1-Cyclopenten-1-yl)-morpholine	153	C9H15NO	000936-52-7	45
3	1-Naphthalenamine	143	C10H9N	000134-32-7	38
4	Quinoline, 3-methyl-	143	C10H9N	000612-58-8	30
5	1-Naphthalenamine	143	C10H9N	000134-32-7	30





Library Search Compound Report

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Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

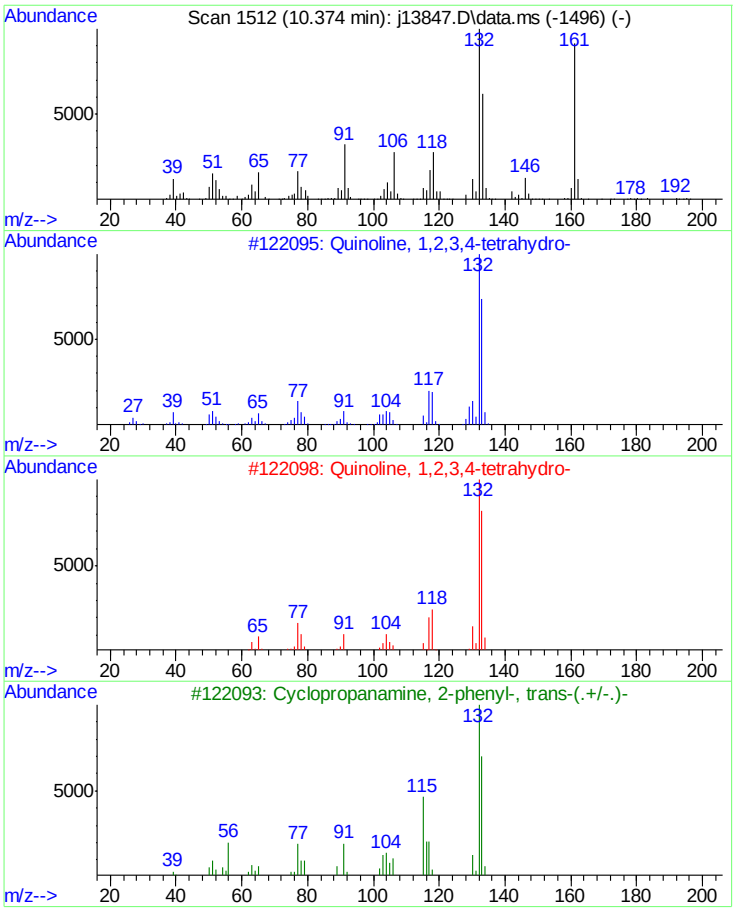
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

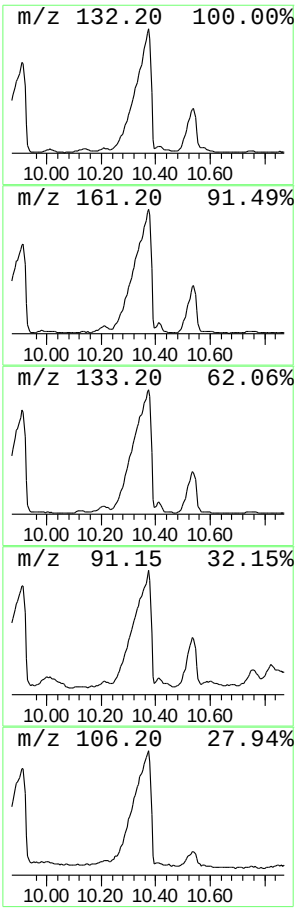
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Quinoline, 5,6,7,8-tetrahydro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.374	58.44 ug/ml	7515680	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	70
2	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	55
3	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	000155-09-9	55
4	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	55
5	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	49





Library Search Compound Report

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Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

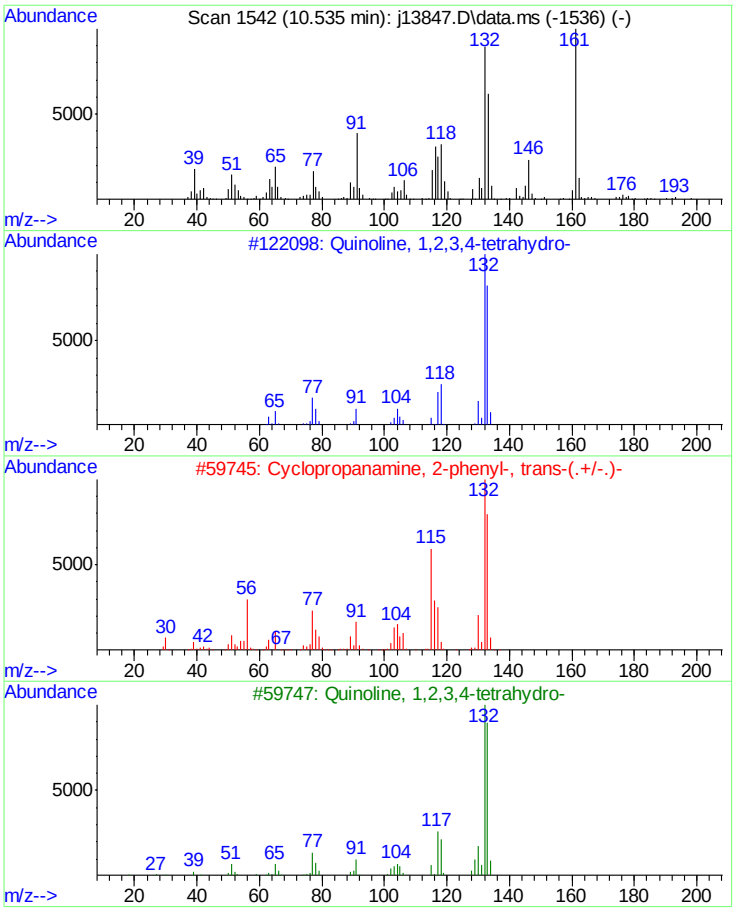
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

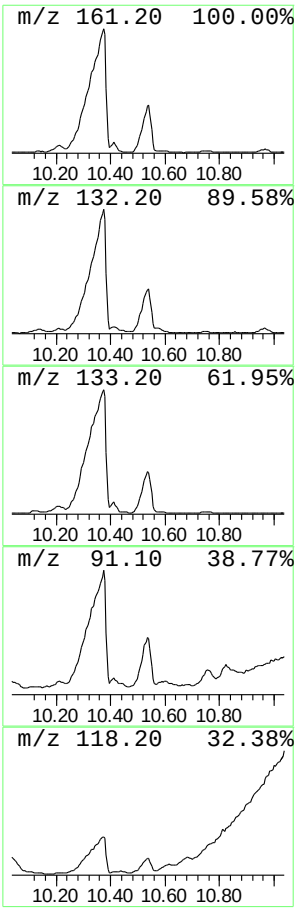
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Quinoline, 1,2,3,4-tetrahydro- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.535	11.32 ug/ml	1456080	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	55
2	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	000155-09-9	50
3	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	50
4	Phenylcyanide, 4-methoxy-2,6-dim...	161	C10H11NO	1000130-54-2	50
5	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	49





Library Search Compound Report

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Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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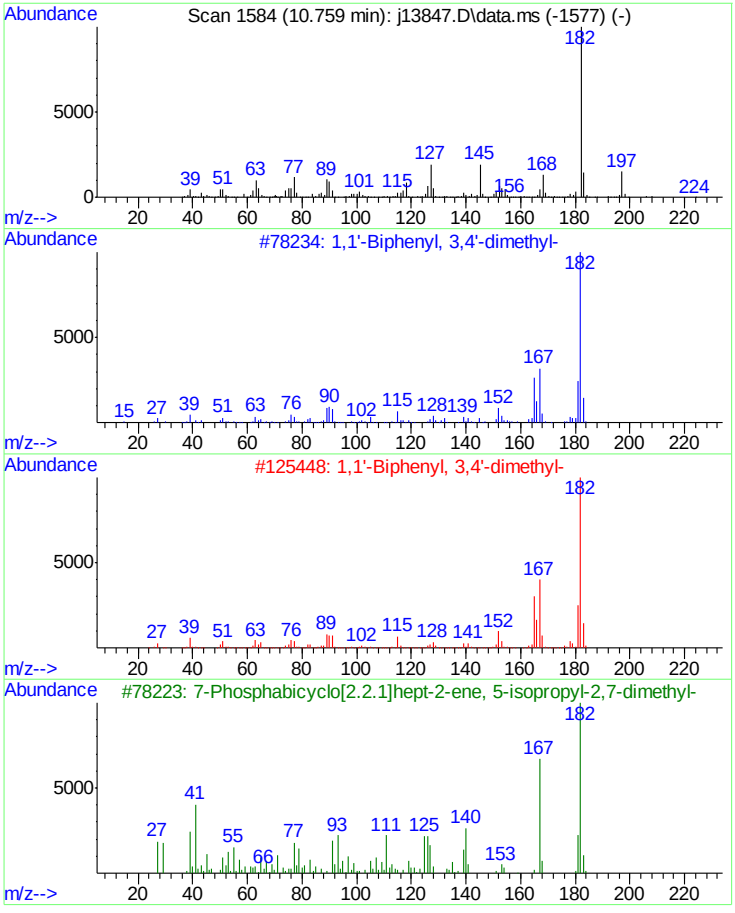
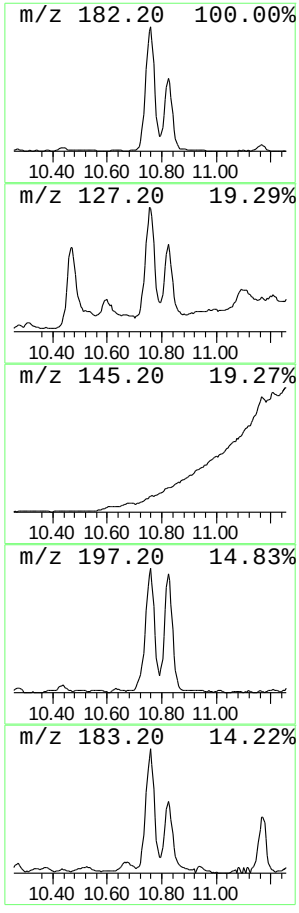
****

Peak Number 17 1,1'-Biphenyl, 3,4'-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.759	21.94 ug/ml	2821840	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	64
2	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	52
3	7-Phosphabicyclo[2.2.1]hept-2-en...	182	C11H19P	1000151-83-5	50
4	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	50
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	46





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

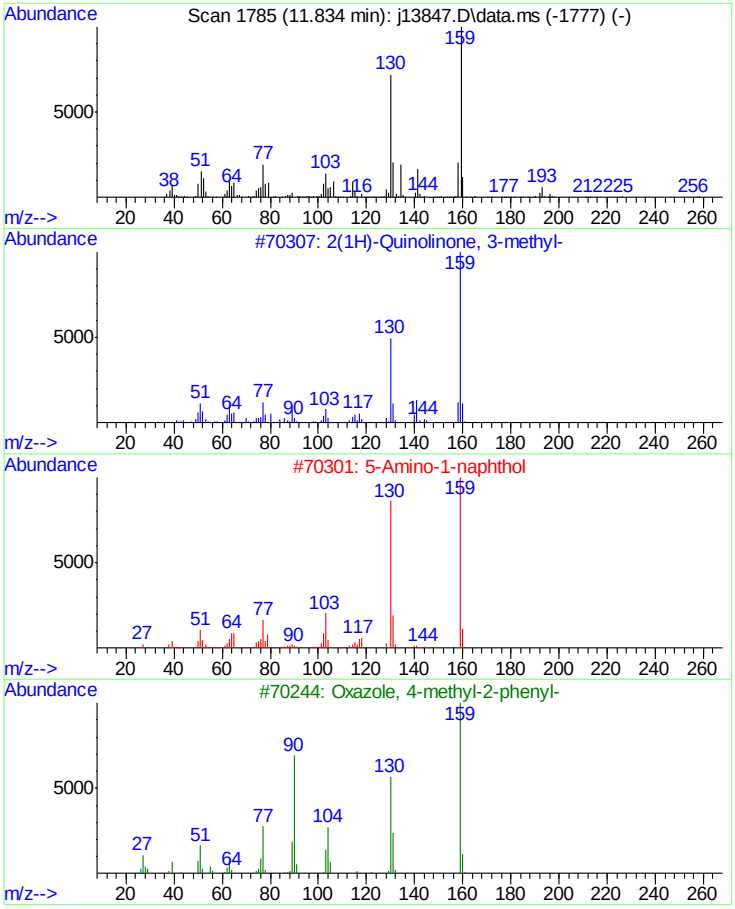
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

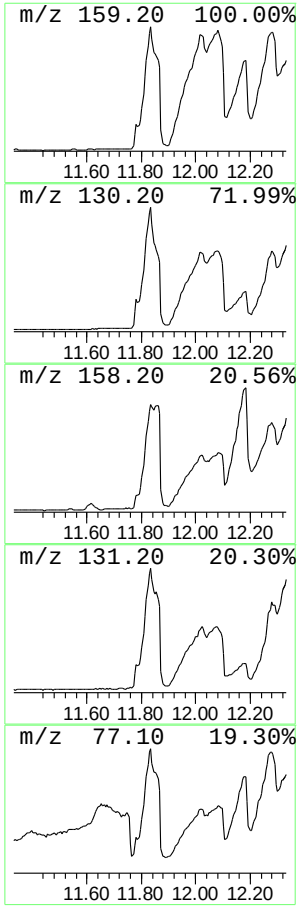
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 2(1H)-Quinolinone, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.834	28.51 ug/ml	3666810	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	81
2	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	64
3	Oxazole, 4-methyl-2-phenyl-	159	C10H9NO	000877-39-4	62
4	8-Quinolinol, 2-methyl-	159	C10H9NO	000826-81-3	53
5	2-Naphthalenol, 5-amino-	159	C10H9NO	000086-97-5	53





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

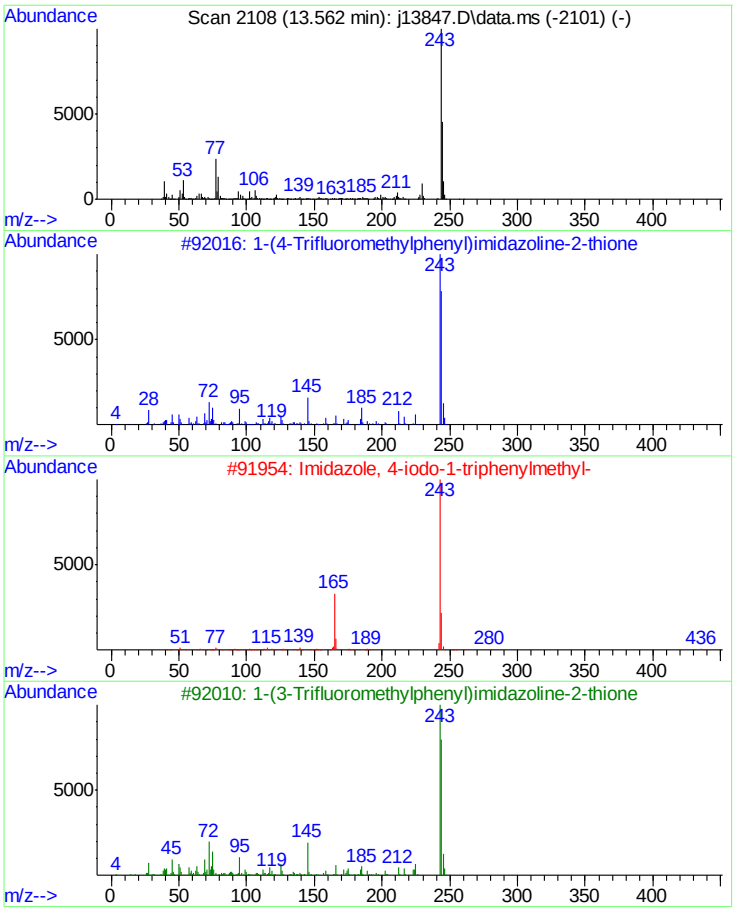
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

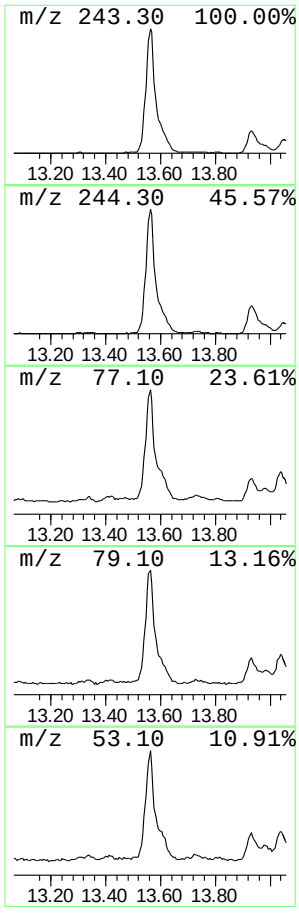
****

Peak Number 19 1-(4-Trifluoromethylphenyl)... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.562	22.27 ug/ml	2863780	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4-Trifluoromethylphenyl)imida...	244	C10H7F3N2S	017452-18-5	38
2	Imidazole, 4-iodo-1-triphenylmet...	436	C22H17IN2	096797-15-8	23
3	1-(3-Trifluoromethylphenyl)imida...	244	C10H7F3N2S	017452-08-3	23
4	Ethyl 5,6,7,8-tetrahydro-4ah-car...	243	C15H17NO2	1000224-64-6	9
5	2,6-Bis(1,1-dimethylethyl)-4-cya...	243	C16H21NO	007062-57-9	9





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

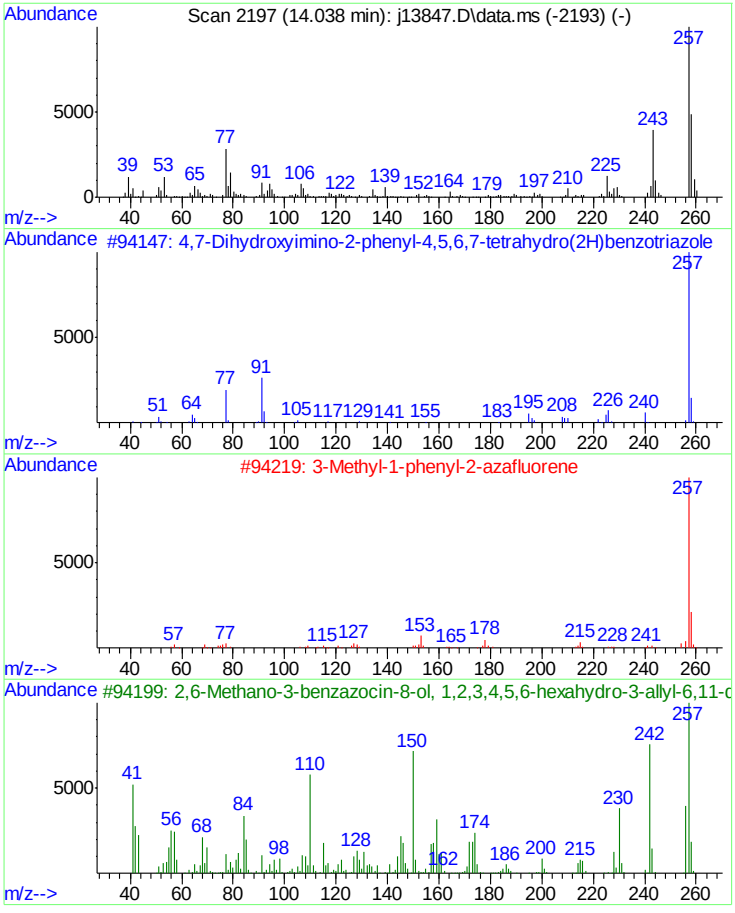
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

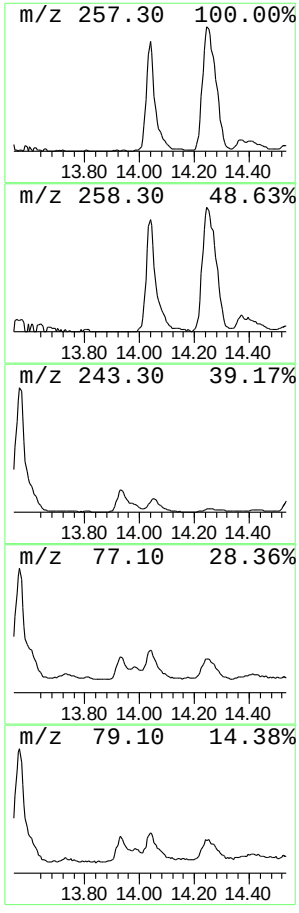
****

Peak Number 20 4,7-Dihydroxyimino-2-phenyl... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.038	17.39 ug/ml	1149800	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,7-Dihydroxyimino-2-phenyl-4,5,...	257	C12H11N5O2	1000110-69-7	37
2	3-Methyl-1-phenyl-2-azafluorene	257	C19H15N	1000216-51-4	12
3	2,6-Methano-3-benzazocin-8-ol, 1...	257	C17H23NO	007619-35-4	10
4	Benz[c]acridine, 5,10-dimethyl-	257	C19H15N	003518-04-5	9
5	Benz[c]acridine, 7,8-dimethyl-	257	C19H15N	003518-01-2	9





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

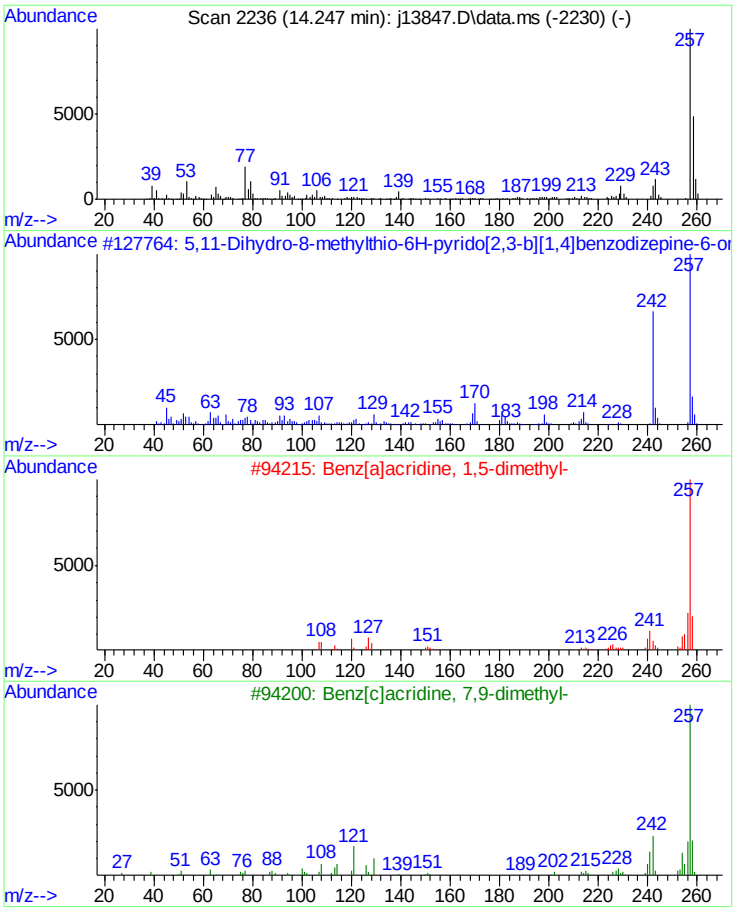
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

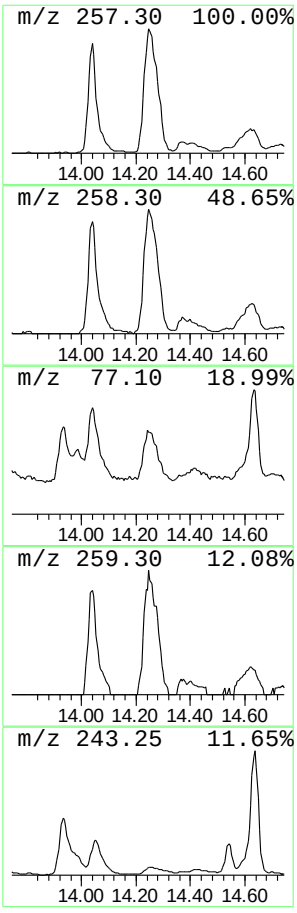
****

Peak Number 21 5,11-Dihydro-8-methylthio-6... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.246	19.65 ug/ml	1299040	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,11-Dihydro-8-methylthio-6H-pyr...	257	C13H11N3OS	133727-45-4	36
2	Benz[a]acridine, 1,5-dimethyl-	257	C19H15N	055030-47-2	36
3	Benz[c]acridine, 7,9-dimethyl-	257	C19H15N	000963-89-3	25
4	Benz[c]acridine, 7,8-dimethyl-	257	C19H15N	003518-01-2	9
5	5,11-Dihydro-8-methylthio-6H-pyr...	257	C13H11N3OS	133727-45-4	9





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

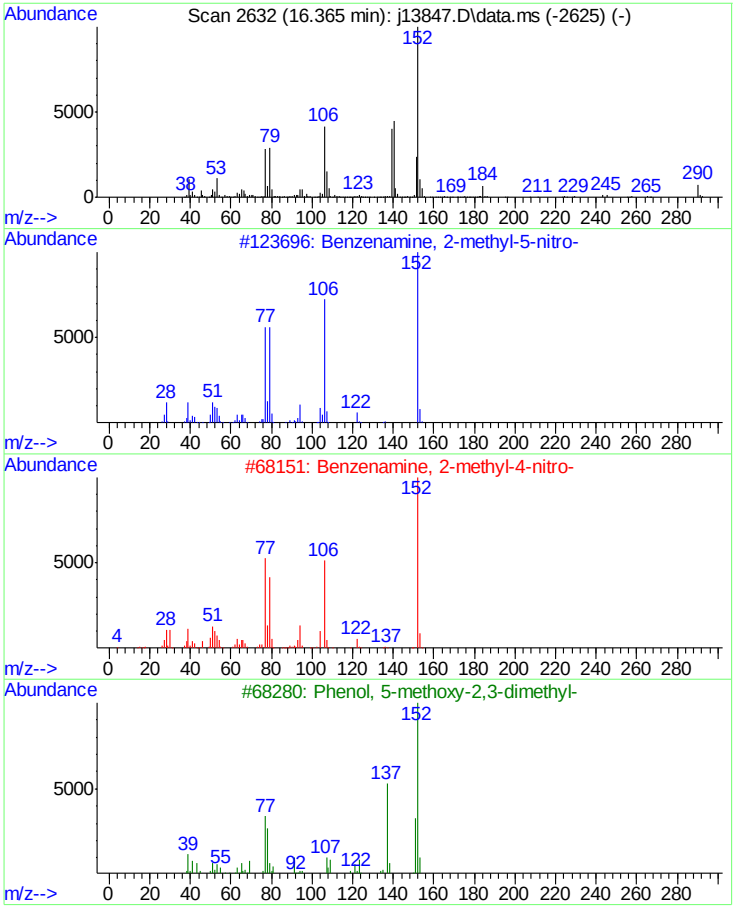
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

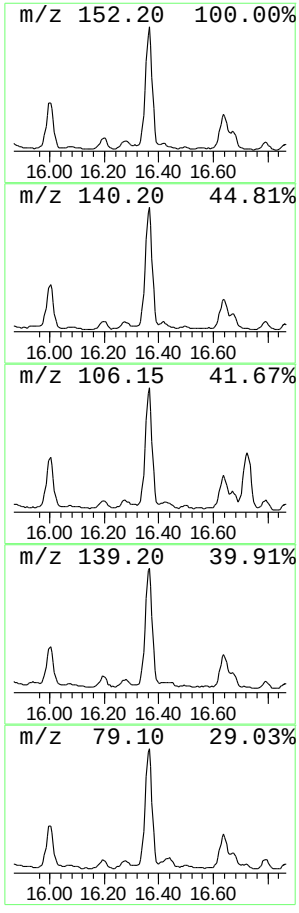
****

Peak Number 22 Benzenamine, 2-methyl-4-nitro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.365	25.79 ug/ml	1705120	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-methyl-5-nitro-	152	C7H8N2O2	000099-55-8	46
2	Benzenamine, 2-methyl-4-nitro-	152	C7H8N2O2	000099-52-5	46
3	Phenol, 5-methoxy-2,3-dimethyl-	152	C9H12O2	034883-01-7	35
4	1,4-Benzenediol, 2,3,5-trimethyl-	152	C9H12O2	000700-13-0	35
5	Toluene, 3,5-dimethoxy-	152	C9H12O2	1000164-35-9	25





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

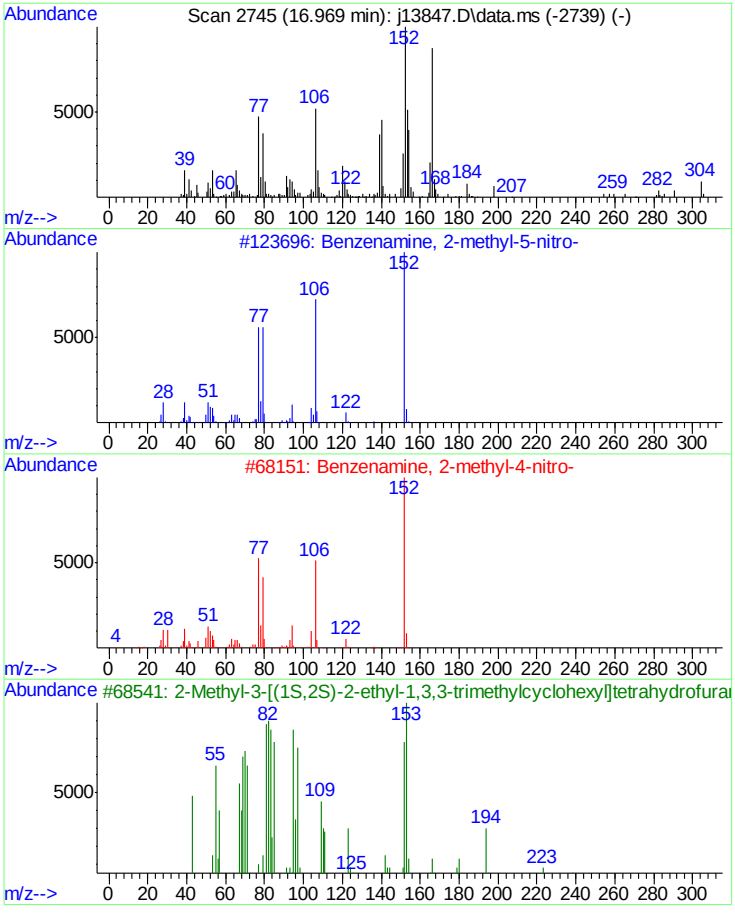
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

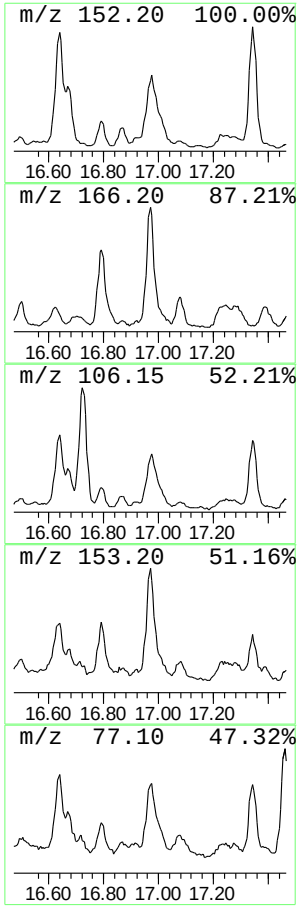
****

Peak Number 23 Benzenamine, 2-methyl-5-nitro- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.969	12.48 ug/ml	825234	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-methyl-5-nitro-	152	C7H8N2O2	000099-55-8	18
2	Benzenamine, 2-methyl-4-nitro-	152	C7H8N2O2	000099-52-5	18
3	2-Methyl-3-[(1S,2S)-2-ethyl-1,3,...	238	C16H30O	100465-06-3	14
4	Benzaldehyde, 2,5-dimethoxy-	166	C9H10O3	000093-02-7	14
5	Phenol, 3-methoxy-2,5,6-trimethyl-	166	C10H14O2	034883-03-9	11





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

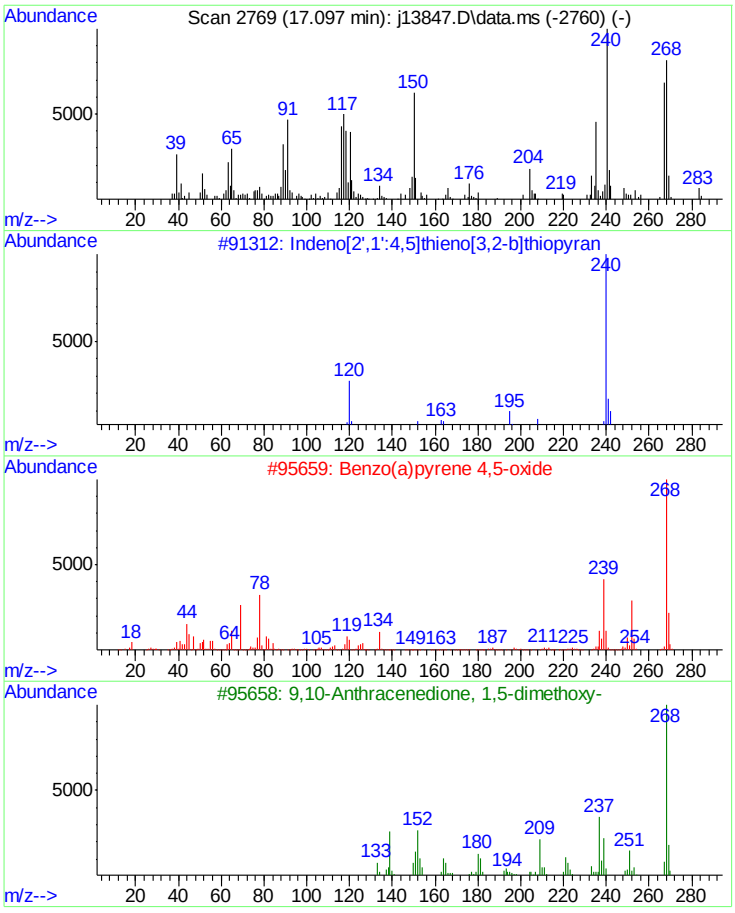
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

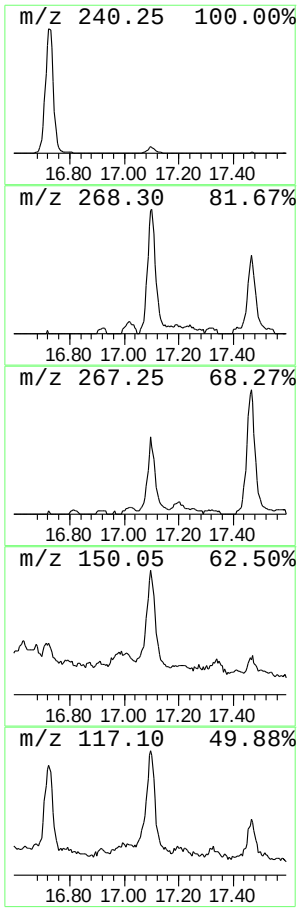
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 Indeno[2',1':4,5]thieno[3,2... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.097	13.46 ug/ml	890234	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2',1':4,5]thieno[3,2-b]th...	240	C14H8S2	056830-85-4	25
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	11
3	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	10
4	3-Methylcholanthrene	268	C21H16	000056-49-5	10
5	2-Propen-1-one, 1-(2-hydroxyphen...	240	C15H12O3	013323-66-5	10





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On    : 15 Oct 2009   3:50 pm
Operator  : sheilac
Sample    : t39646-1,4x
Misc      : op13250,Ej635,1000,,,1,4,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

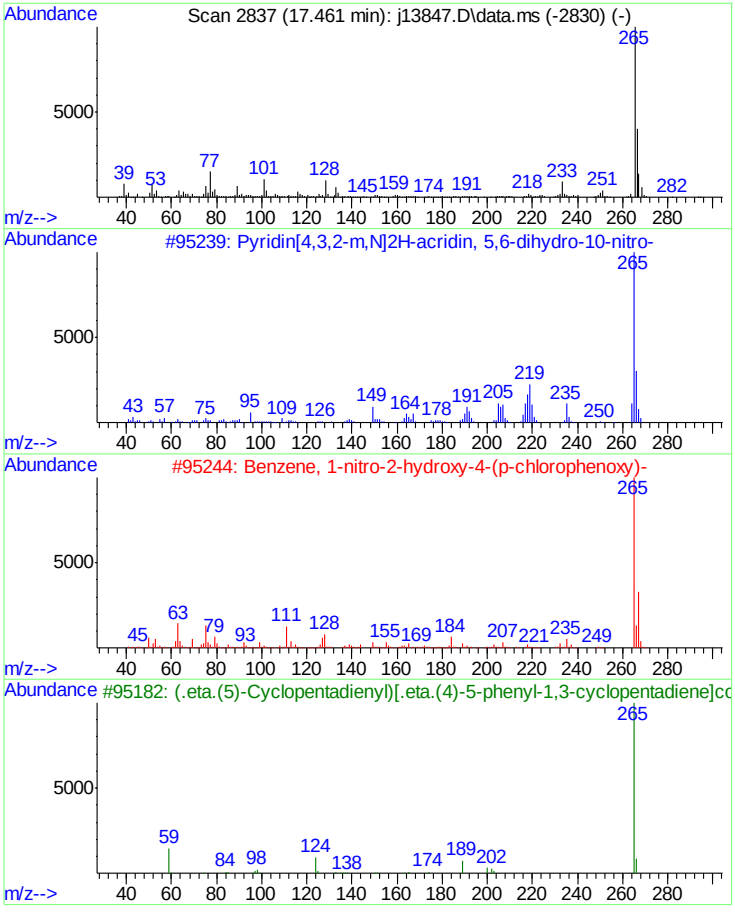
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

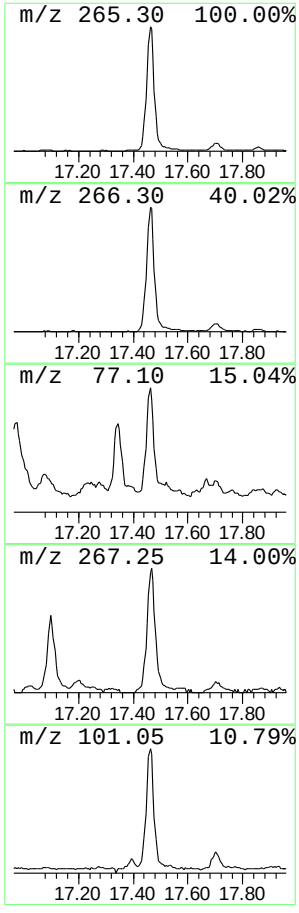
****

Peak Number 25 Pyridin[4,3,2-m,N]2H-acridi... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.461	19.16 ug/ml	1267160	Chrysene-d12	16.723

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridin[4,3,2-m,N]2H-acridin, 5,...	265	C15H11N3O2	1000131-43-8	28
2	Benzene, 1-nitro-2-hydroxy-4-(p-...	265	C12H8ClNO4	1000140-59-2	22
3	(.eta.(5)-Cyclopentadienyl)[.eta...	266	C16H15Co	1000112-23-3	17
4	Chinazolin, 5,7-dimethyl-4-methy...	280	C17H16N2S	1000151-41-9	12
5	Benzene, 1-nitro-2-hydroxy-4-(m-...	265	C12H8ClNO4	1000140-59-4	9





ACCUTEST Laboratories T39646

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13847.D
Acq On : 15 Oct 2009 3:50 pm
Operator : sheilac
Sample : t39646-1,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Benzofuran	4.592	33.7	ug/ml	2765260	1	4.705	3284060	40.0
Benzene, 1-ethe...	4.860	58.8	ug/ml	4827900	1	4.705	3284060	40.0
Pyridine, 2,4,6...	4.919	15.5	ug/ml	1272330	1	4.705	3284060	40.0
Phenol, 3,5-dim...	5.812	58.6	ug/ml	73251400	2	5.945	50035000	40.0
1-Phenyl-1-cycl...	7.224	12.5	ug/ml	1891400	3	8.379	6032690	40.0
Benzene, 1-(1,1...	7.491	25.3	ug/ml	3809250	3	8.379	6032690	40.0
6-Quinolinamine...	7.598	10.4	ug/ml	1574520	3	8.379	6032690	40.0
1,4-Benzenedica...	7.662	14.7	ug/ml	2219750	3	8.379	6032690	40.0
Benzaldehyde, 2...	7.775	19.0	ug/ml	2861850	3	8.379	6032690	40.0
Benzene, pentam...	8.031	15.1	ug/ml	2272590	3	8.379	6032690	40.0
Pyridine, 2-phe...	8.165	21.8	ug/ml	3294140	3	8.379	6032690	40.0
2-Naphthaleneca...	8.529	73.1	ug/ml	11029200	3	8.379	6032690	40.0
1-Naphthalenol	8.673	189.7	ug/ml	28613600	3	8.379	6032690	40.0
1-Naphthalenamine	8.893	58.4	ug/ml	8800880	3	8.379	6032690	40.0
Quinoline, 5,6,...	10.374	58.4	ug/ml	7515680	4	11.166	5144110	40.0
Quinoline, 1,2,...	10.535	11.3	ug/ml	1456080	4	11.166	5144110	40.0
1,1'-Biphenyl, ...	10.759	21.9	ug/ml	2821840	4	11.166	5144110	40.0
2(1H)-Quinolino...	11.834	28.5	ug/ml	3666810	4	11.166	5144110	40.0
1-(4-Trifluorom...	13.562	22.3	ug/ml	2863780	4	11.166	5144110	40.0
4,7-Dihydroxyim...	14.038	17.4	ug/ml	1149800	5	16.723	2644750	40.0
5,11-Dihydro-8-...	14.246	19.6	ug/ml	1299040	5	16.723	2644750	40.0
Benzenamine, 2-...	16.365	25.8	ug/ml	1705120	5	16.723	2644750	40.0
Benzenamine, 2-...	16.969	12.5	ug/ml	825234	5	16.723	2644750	40.0
Indeno[2',1':4,...	17.097	13.5	ug/ml	890234	5	16.723	2644750	40.0
Pyridin[4,3,2-m...	17.461	19.2	ug/ml	1267160	5	16.723	2644750	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 16 14:59:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

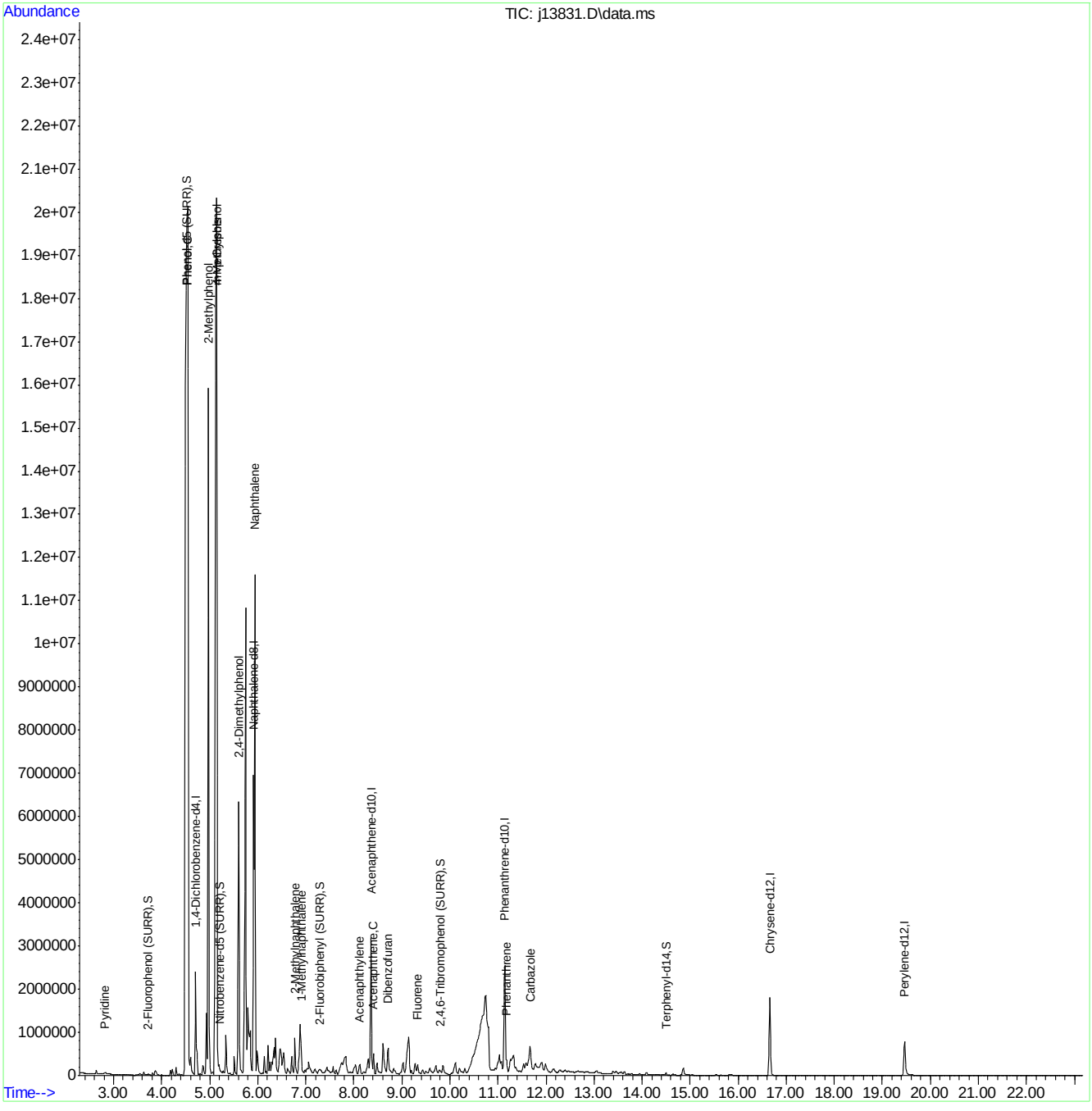
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	477562	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1954880	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.358	164	1046506	40.00	ug/ml	-0.06
57) Phenanthrene-d10	11.144	188	1578825	40.00	ug/ml	-0.06
71) Chrysene-d12	16.659	240	1257449	40.00	ug/ml	-0.07
80) Perylene-d12	19.467	264	694636	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	12389	0.83	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.83%#	
5) Phenol-d5 (SURR)	4.517	99	18511	0.99	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.99%#	
21) Nitrobenzene-d5 (SURR)	5.207	82	15547	0.76	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.52%#	
40) 2-Fluorobiphenyl (SURR)	7.293	172	31177	0.76	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery	=	1.52%#	
62) 2,4,6-Tribromophenol (...	9.802	330	8601	1.62	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	1.62%#	
74) Terphenyl-d14	14.498	244	30492	1.02	ug/ml	-0.10
Spiked Amount 50.000	Range 12 - 145		Recovery	=	2.04%#	
Target Compounds						Qvalue
3) Pyridine	2.816	79	60080m	4.24	ug/ml	
6) Phenol	4.539	94	29185733	1439.84	ug/ml#	70
14) 2-Methylphenol	4.977	108	3963906	278.96	ug/ml	97
16) 4-Methylphenol	5.148	108	12307520	818.75	ug/ml#	61
17) m+p-Cresols	5.148	108	12307520	818.75	ug/ml#	61
25) 2,4-Dimethylphenol	5.608	122	1862765	121.68	ug/ml	99
30) Naphthalene	5.940	128	6124574	115.03	ug/ml	99
34) 2-Methylnaphthalene	6.774	142	276260	8.49	ug/ml	98
35) 1-Methylnaphthalene	6.903	142	205495	6.03	ug/ml#	69
44) Acenaphthylene	8.112	152	85427	1.72	ug/ml	97
47) Acenaphthene	8.411	154	142308	4.89	ug/ml	99
50) Dibenzofuran	8.711	168	105626	2.54	ug/ml	93
54) Fluorene	9.331	166	86938	2.40	ug/ml	97
66) Phenanthrene	11.182	178	158714	3.37	ug/ml	97
68) Carbazole	11.674	167	188556	5.17	ug/ml	99

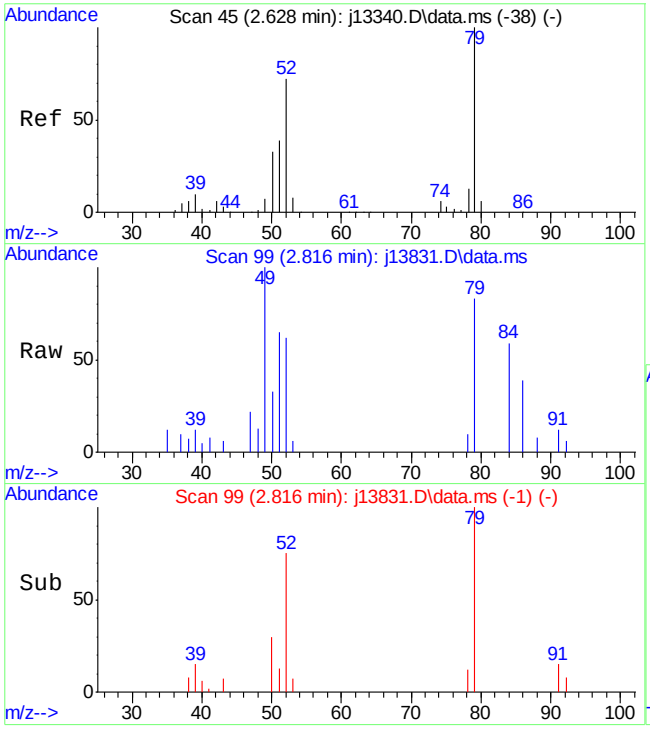
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 16 14:59:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

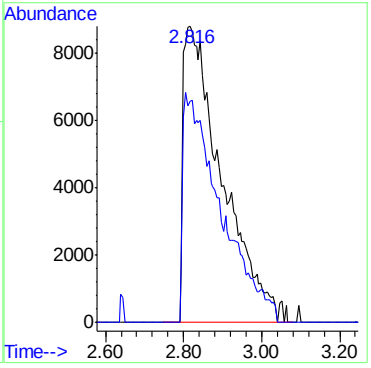


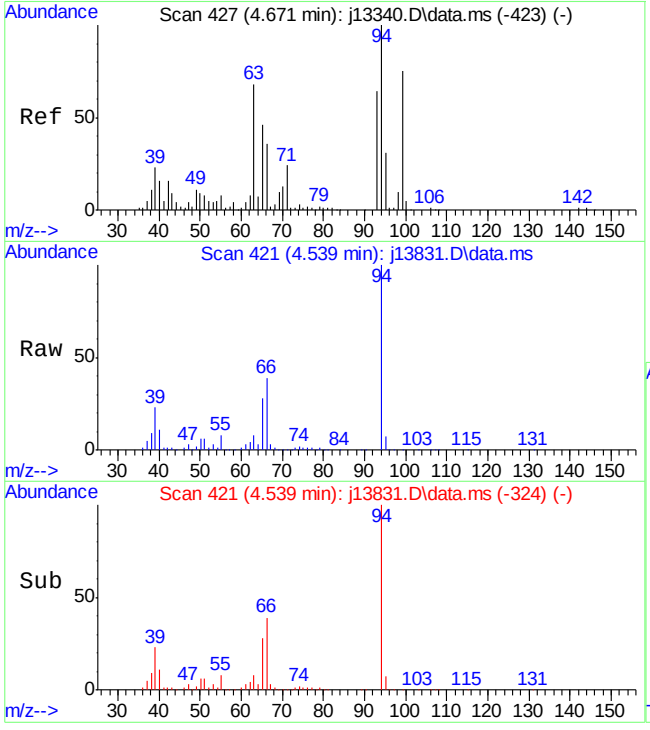


#3
Pyridine
Concen: 4.24 ug/ml m
RT: 2.816 min Scan# 99
Delta R.T. 0.385 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion: 79 Resp: 60080

Ion	Ratio	Lower	Upper
79	100		
52	58.4	52.6	92.6

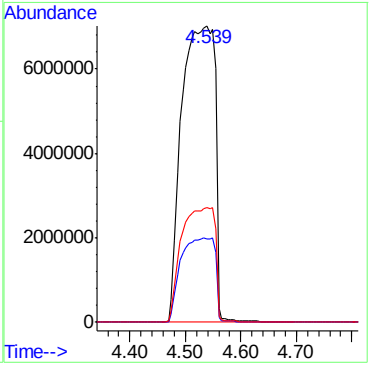


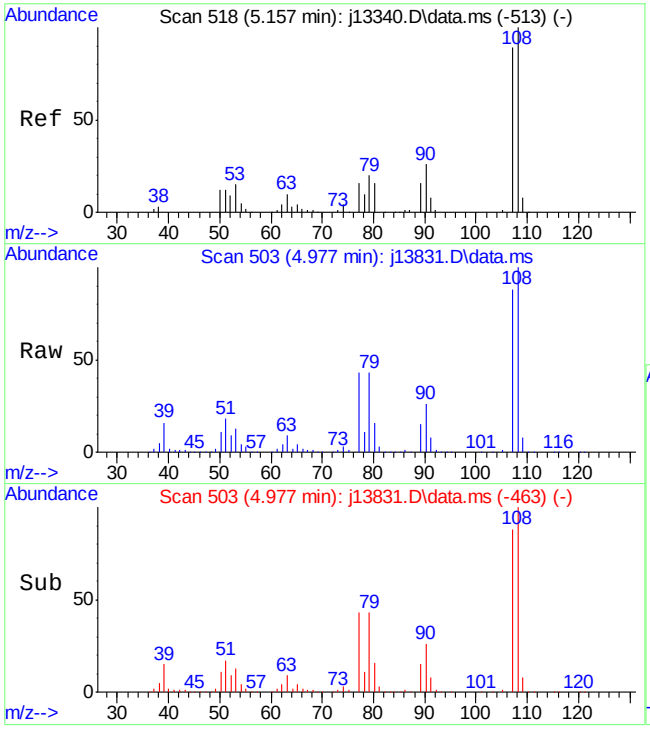


#6
Phenol
Concen: 1439.84 ug/ml
RT: 4.539 min Scan# 421
Delta R.T. 0.020 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion: 94 Resp:29185733

Ion	Ratio	Lower	Upper
94	100		
65	29.0	35.3	75.3#
66	39.1	37.4	77.4

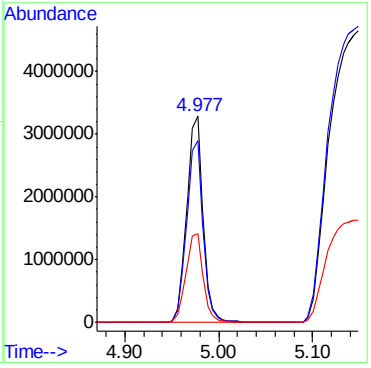


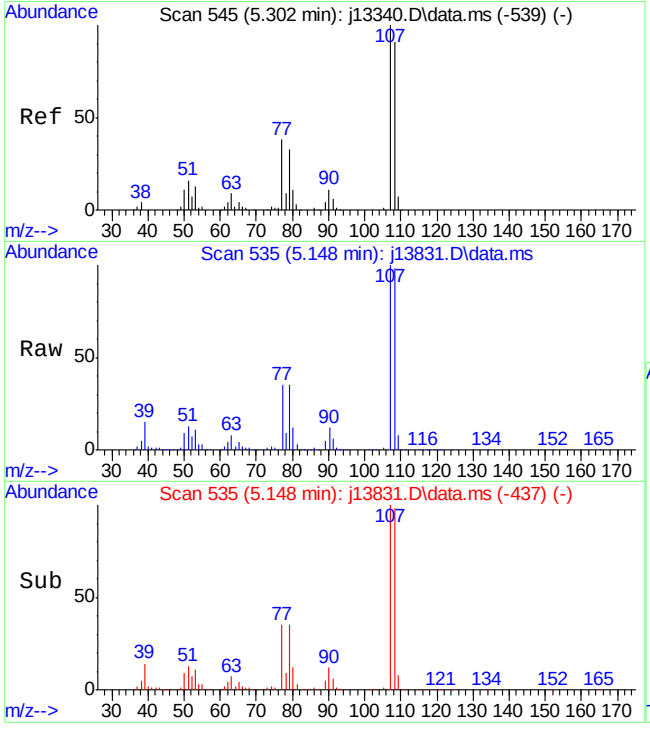


#14
2-Methylphenol
Concen: 278.96 ug/ml
RT: 4.977 min Scan# 503
Delta R.T. 0.016 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:108 Resp: 3963906

Ion	Ratio	Lower	Upper
108	100		
107	88.8	68.3	108.3
77	44.9	30.8	70.8

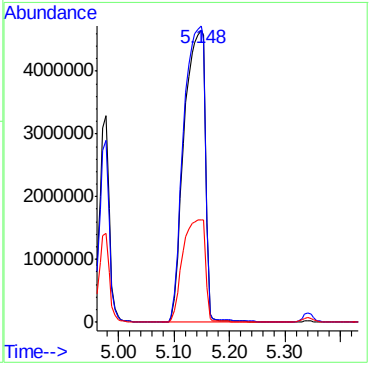


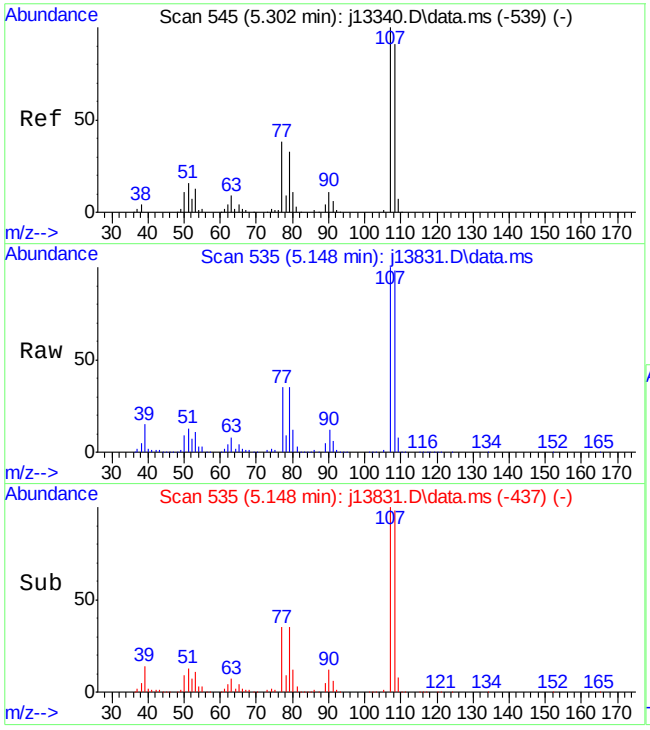


#16
4-Methylphenol
Concen: 818.75 ug/ml
RT: 5.148 min Scan# 535
Delta R.T. 0.027 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:108 Resp:12307520

Ion	Ratio	Lower	Upper
108	100		
107	102.7	139.5	179.5#
77	37.4	36.8	76.8

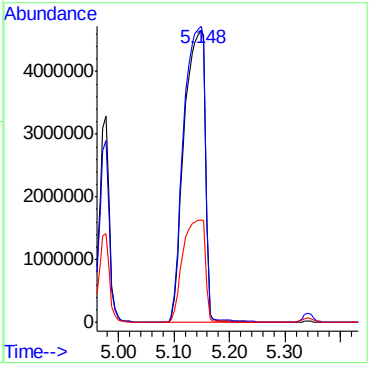


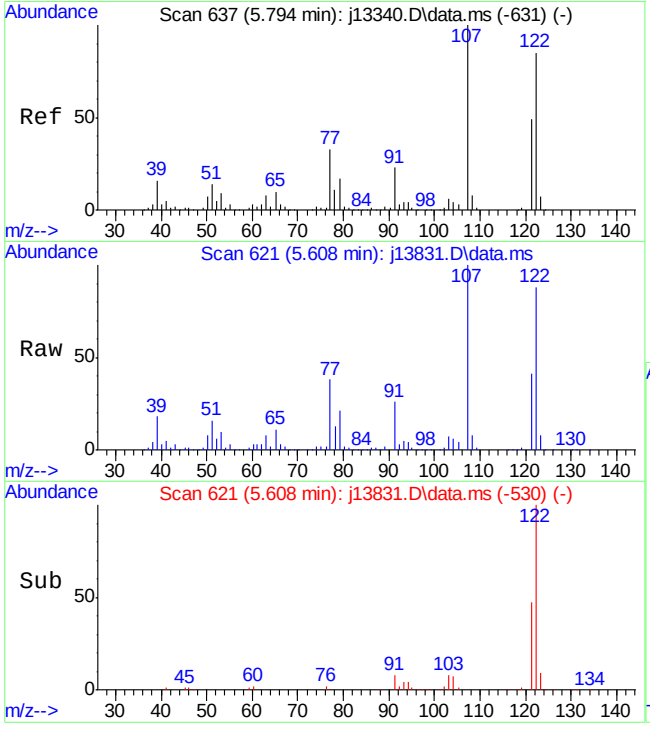


#17
m+p-Cresols
Concen: 818.75 ug/ml
RT: 5.148 min Scan# 535
Delta R.T. 0.027 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:108 Resp:12307520

Ion	Ratio	Lower	Upper
108	100		
107	102.7	139.5	179.5#
77	37.4	36.8	76.8

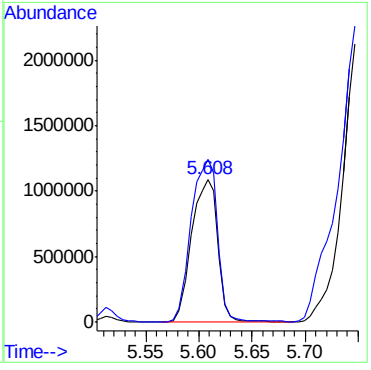




#25
2,4-Dimethylphenol
Concen: 121.68 ug/ml
RT: 5.608 min Scan# 621
Delta R.T. -0.011 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

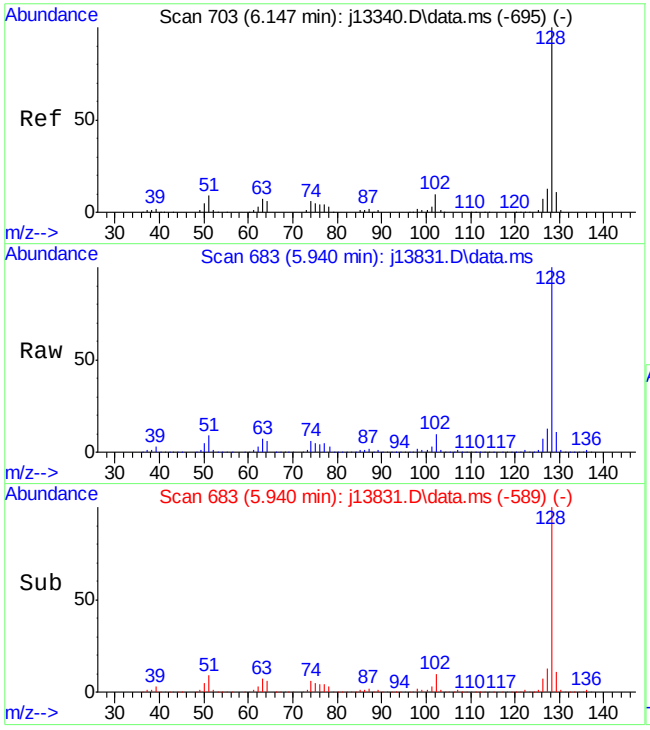
Tgt Ion:122 Resp: 1862765

Ion	Ratio	Lower	Upper
122	100		
107	115.2	96.3	136.3



8.1.4

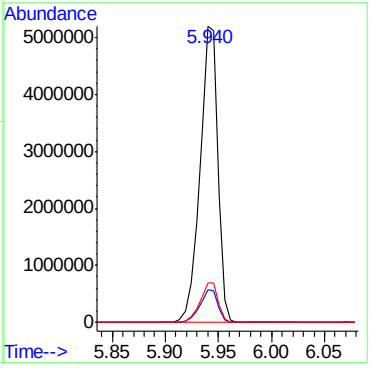
8

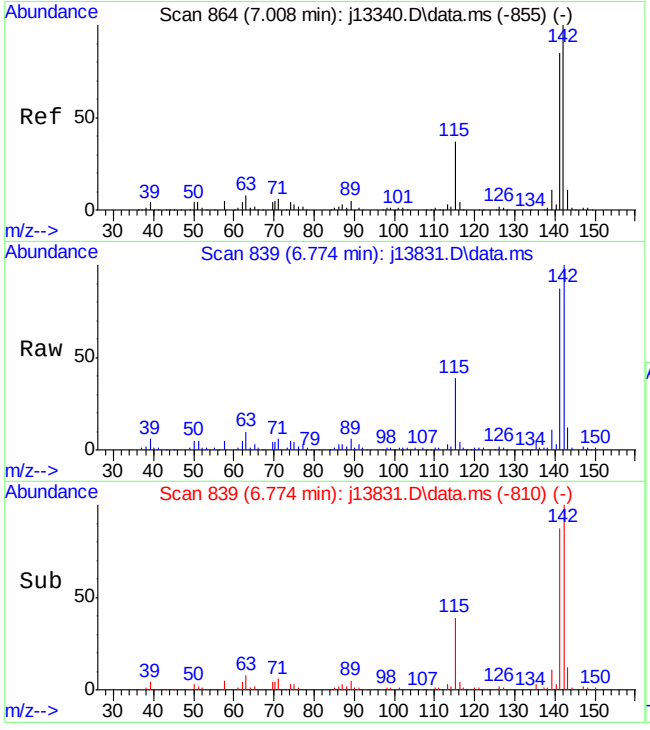


#30
Naphthalene
Concen: 115.03 ug/ml
RT: 5.940 min Scan# 683
Delta R.T. 0.005 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:128 Resp: 6124574

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.4	0.0	33.8

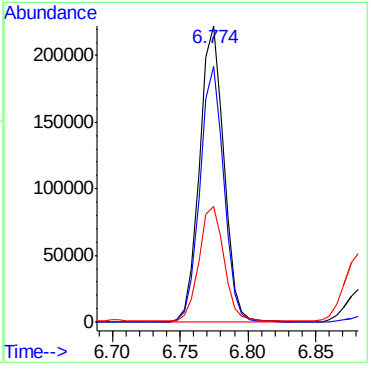


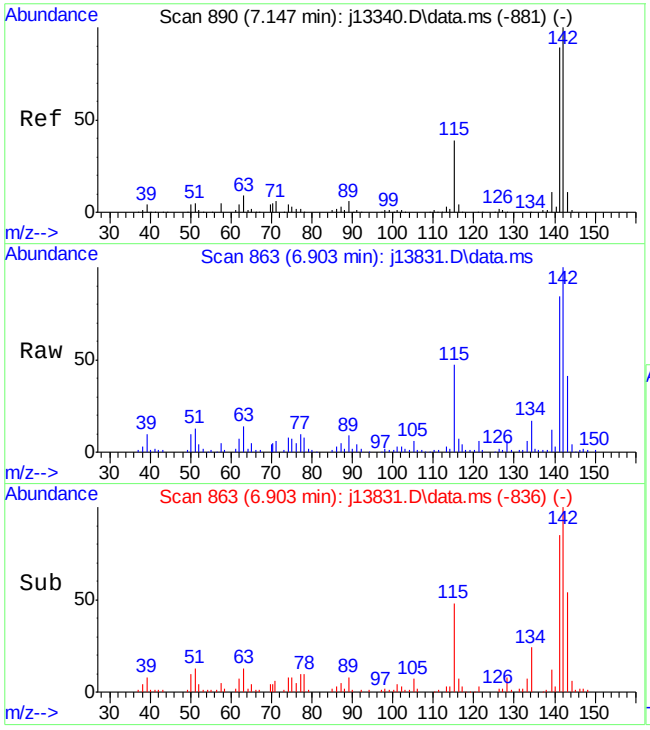


#34
2-Methylnaphthalene
Concen: 8.49 ug/ml
RT: 6.774 min Scan# 839
Delta R.T. -0.043 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:142 Resp: 276260

Ion	Ratio	Lower	Upper
142	100		
141	85.0	66.2	106.2
115	40.3	17.8	57.8

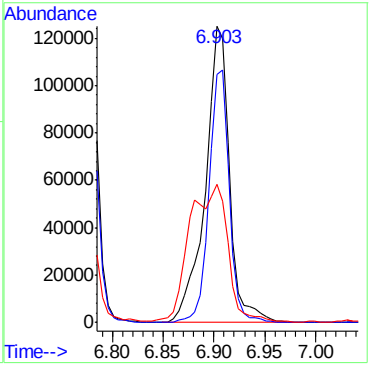


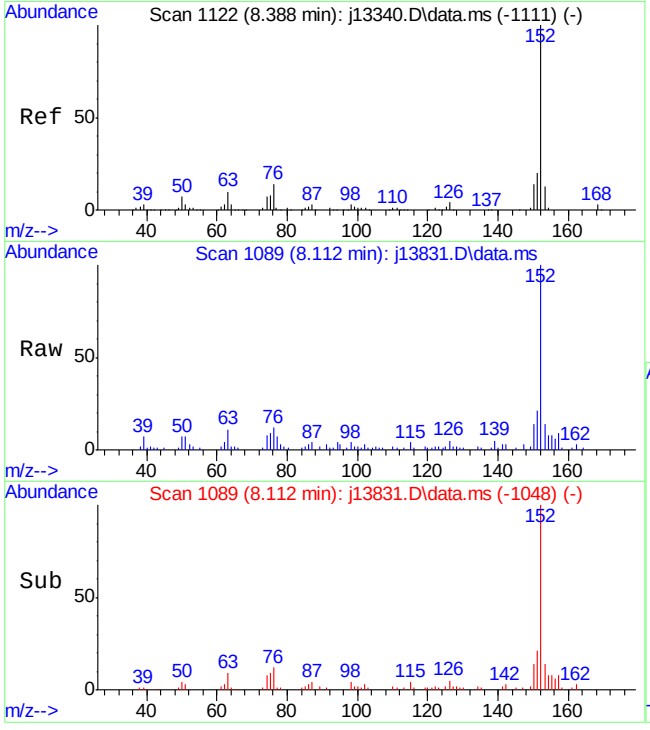


#35
1-Methylnaphthalene
Concen: 6.03 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:142 Resp: 205495

Ion	Ratio	Lower	Upper
142	100		
141	71.2	69.4	109.4
115	74.6	18.9	58.9#

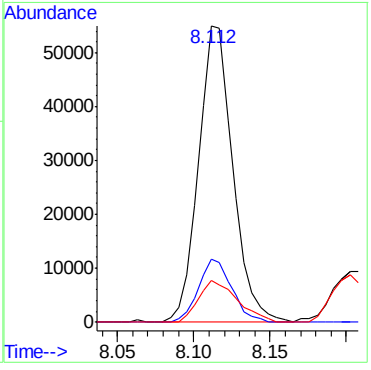


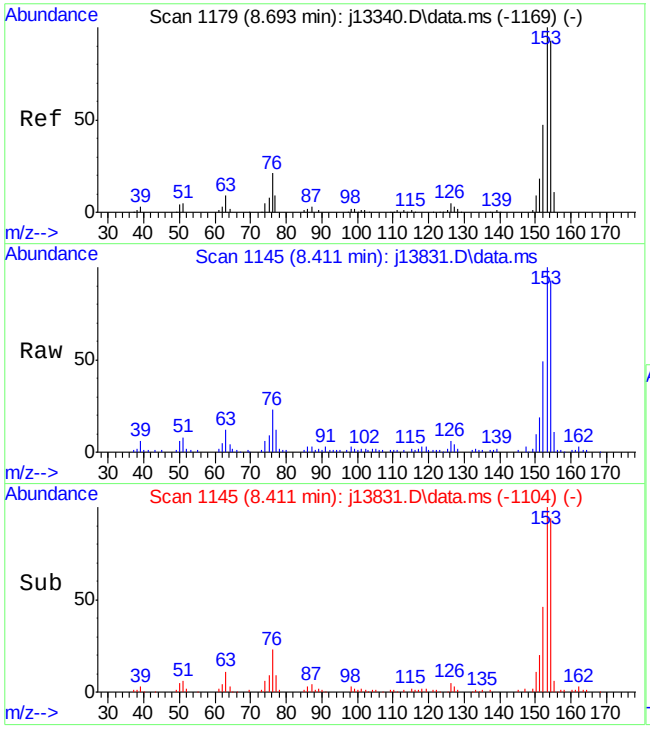


#44
Acenaphthylene
Concen: 1.72 ug/ml
RT: 8.112 min Scan# 1089
Delta R.T. -0.282 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:152 Resp: 85427

Ion	Ratio	Lower	Upper
152	100		
151	20.5	0.2	40.2
153	15.9	0.0	33.0

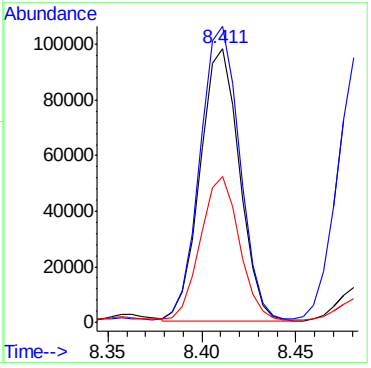


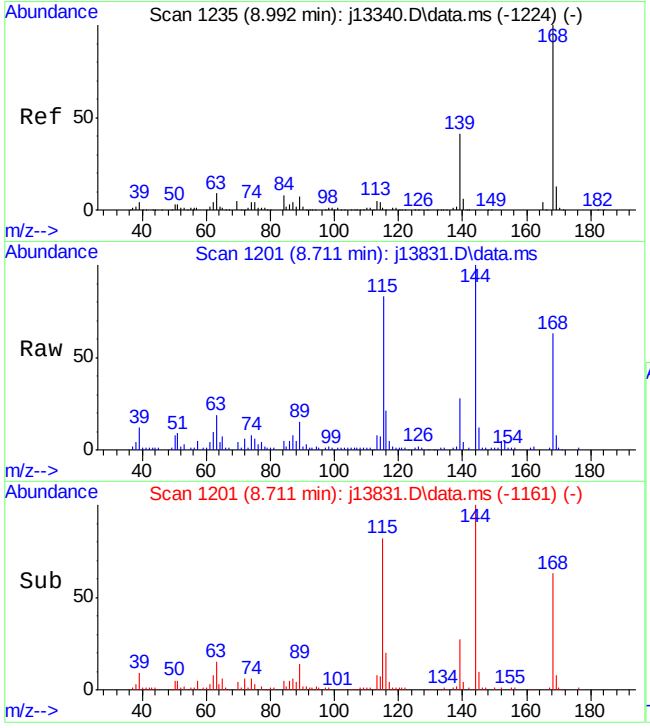


#47
Acenaphthene
Concen: 4.89 ug/ml
RT: 8.411 min Scan# 1145
Delta R.T. -0.282 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:154 Resp: 142308

Ion	Ratio	Lower	Upper
154	100		
153	108.6	87.9	127.9
152	51.5	31.3	71.3

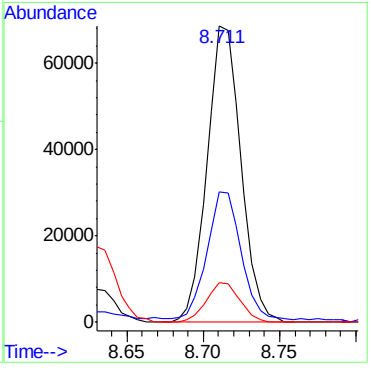


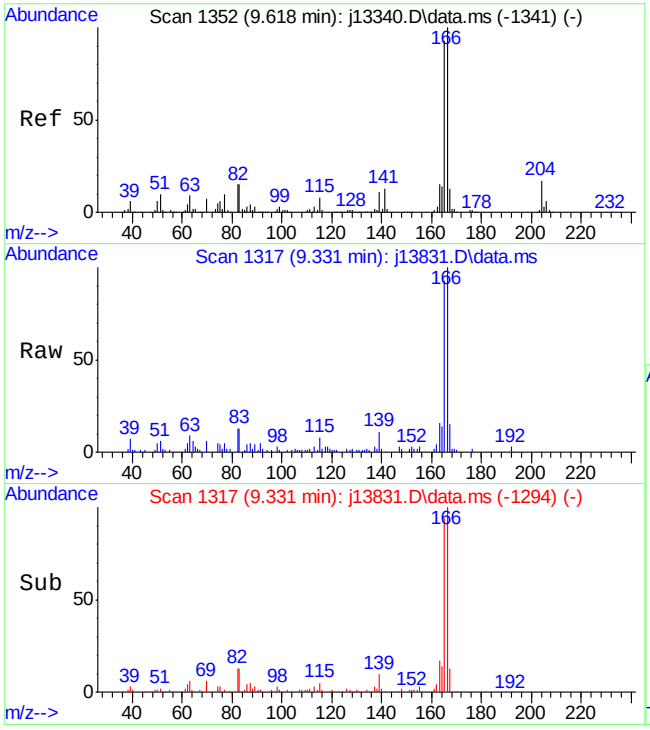


#50
Dibenzofuran
Concen: 2.54 ug/ml
RT: 8.711 min Scan# 1201
Delta R.T. -0.287 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:168 Resp: 105626

Ion	Ratio	Lower	Upper
168	100		
139	46.9	21.2	61.2
169	13.2	0.0	33.2

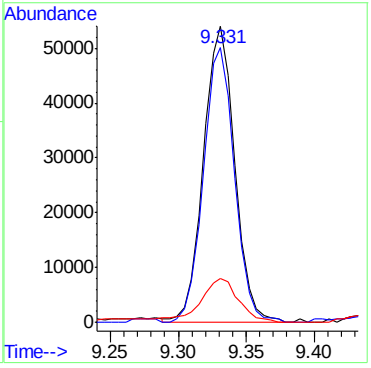


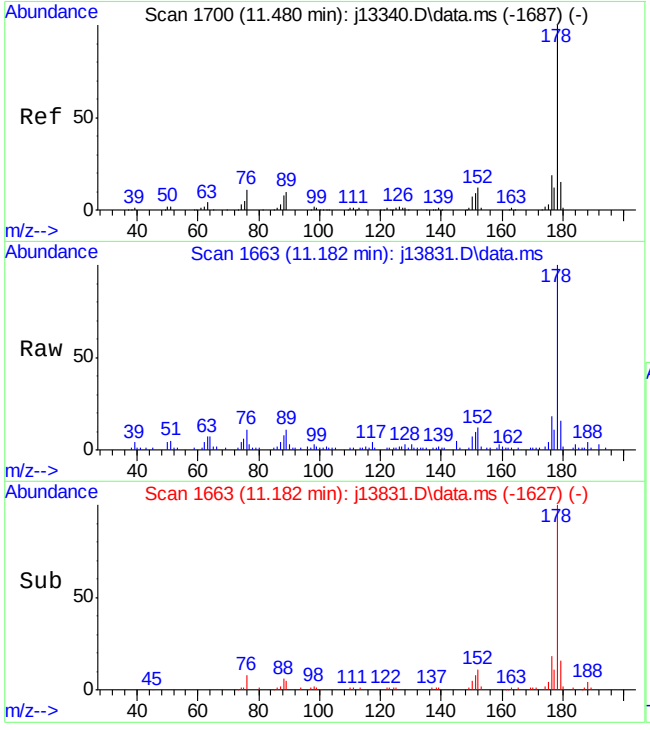


#54
Fluorene
Concen: 2.40 ug/ml
RT: 9.331 min Scan# 1317
Delta R.T. -0.075 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:166 Resp: 86938

Ion	Ratio	Lower	Upper
166	100		
165	91.9	73.8	113.8
167	18.3	0.0	33.3

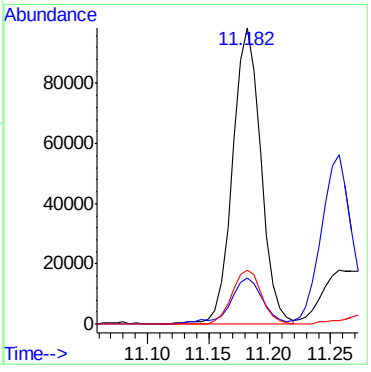


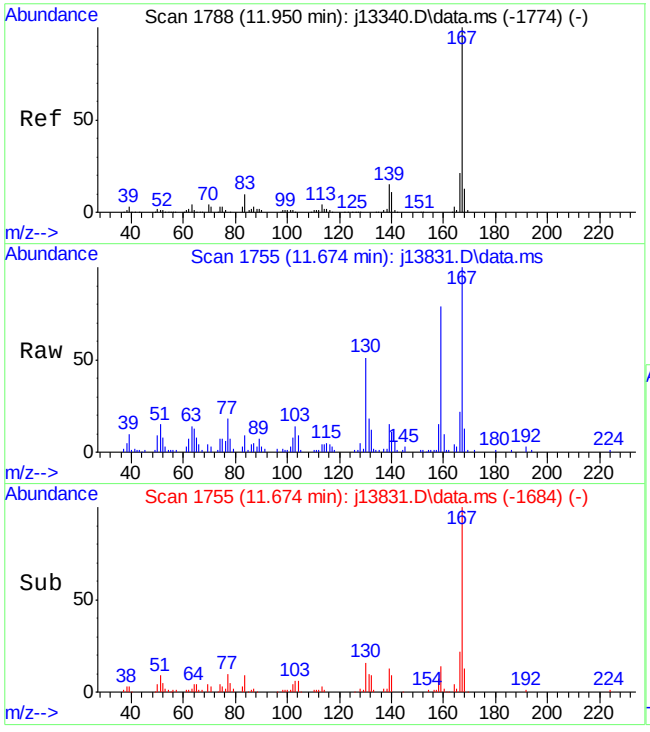


#66
Phenanthrene
Concen: 3.37 ug/ml
RT: 11.182 min Scan# 1663
Delta R.T. -0.005 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:178 Resp: 158714

Ion	Ratio	Lower	Upper
178	100		
179	17.8	0.0	35.2
176	19.0	0.0	38.8

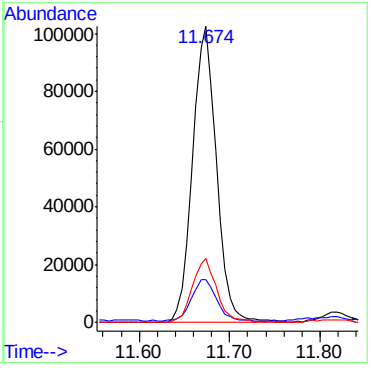




#68
Carbazole
Concen: 5.17 ug/ml
RT: 11.674 min Scan# 1755
Delta R.T. -0.120 min
Lab File: j13831.D
Acq: 14 Oct 2009 10:31 pm

Tgt Ion:167 Resp: 188556

Ion	Ratio	Lower	Upper
167	100		
139	14.5	0.0	34.1
166	21.8	0.9	40.9



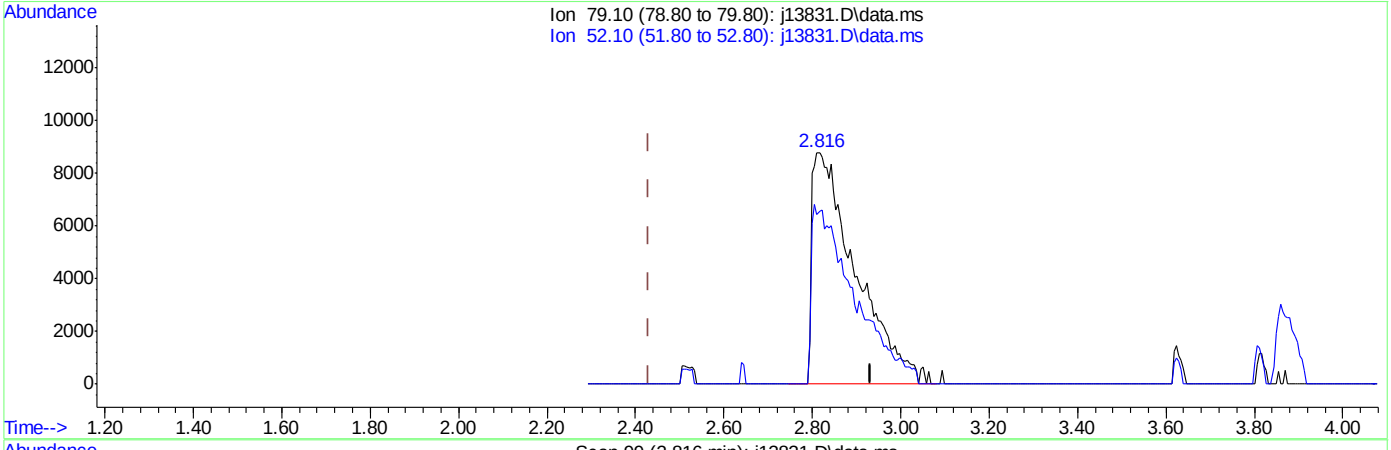
8.1.4

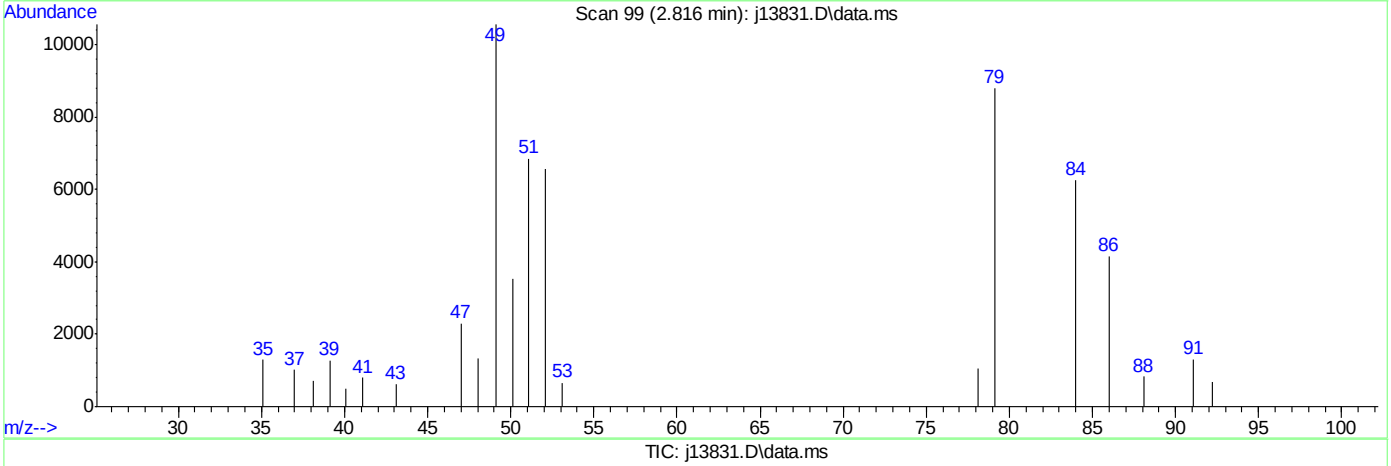
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 16 14:59:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13831.D\data.ms

(3) Pyridine

2.816min (+0.385) 4.24ug/ml m

response 60080

Ion	Exp%	Act%
79.10	100	100
52.10	72.60	58.40
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.528	407	419	420	rBV2	19976150	58759862	100.00%	24.535%
2	4.603	430	433	448	rVB2	401992	591142	1.01%	0.247%
3	4.704	448	452	462	rVB	2378231	3236037	5.51%	1.351%
4	4.934	488	495	498	rVV	1410148	1603712	2.73%	0.670%
5	4.977	498	503	514	rVB	15882966	19936427	33.93%	8.325%
6	5.148	522	535	539	rBV2	20303511	55149263	93.86%	23.028%
7	5.341	565	571	580	rVB2	888869	1224632	2.08%	0.511%
8	5.608	613	621	628	rBV2	6314942	10773023	18.33%	4.498%
9	5.747	637	647	652	rBV	10757814	15807501	26.90%	6.600%
10	5.801	652	657	661	rVV	975344	1380978	2.35%	0.577%
11	5.913	672	678	680	rBV	6865626	8277337	14.09%	3.456%
12	5.940	680	683	688	rVV	11522692	13329937	22.69%	5.566%
13	5.988	688	692	709	rVB2	544645	976566	1.66%	0.408%
14	6.218	730	735	739	rBV	657526	822436	1.40%	0.343%
15	6.341	751	758	761	rBV2	417622	703314	1.20%	0.294%
16	6.373	761	764	772	rVB	800842	1006664	1.71%	0.420%
17	6.464	772	781	783	rBV	540507	1021815	1.74%	0.427%
18	6.544	789	796	806	rVB3	485221	1155624	1.97%	0.483%
19	6.774	834	839	849	rVB	815339	1174073	2.00%	0.490%
20	6.881	849	859	869	rBV5	1140889	2863287	4.87%	1.196%
21	7.742	1006	1020	1024	rBV6	274966	904744	1.54%	0.378%
22	7.833	1029	1037	1048	rVB3	392583	1248007	2.12%	0.521%
23	8.037	1063	1075	1084	rVB5	202843	653784	1.11%	0.273%
24	8.304	1113	1125	1129	rBV2	321630	847135	1.44%	0.354%
25	8.358	1129	1135	1141	rVV	3119586	4790270	8.15%	2.000%
26	8.411	1141	1145	1152	rVB	468453	692434	1.18%	0.289%
27	8.609	1175	1182	1194	rBV	669095	1361494	2.32%	0.568%
28	8.711	1195	1201	1218	rVB2	577624	1144974	1.95%	0.478%
29	9.026	1246	1260	1266	rBV4	270368	678052	1.15%	0.283%
30	9.144	1266	1282	1288	rVB2	822710	2621763	4.46%	1.095%
31	9.855	1409	1415	1439	rVB2	217948	623313	1.06%	0.260%
32	10.112	1451	1463	1473	rVB	257051	658816	1.12%	0.275%
33	10.679	1510	1569	1570	rBV4	1305135	11078318	18.85%	4.626%
34	11.032	1622	1635	1638	rBV2	346569	883326	1.50%	0.369%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On    : 14 Oct 2009  10:31 pm
Operator  : sheilac
Sample    : t39646-2,40x
Misc      : op13250,Ej634,1000,,,1,40,water
ALS Vial  : 22   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 6000 Area counts
Start Thrs: 0.2                         Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
```

35	11.144	1647	1656	1661	rBV2	2402822	4385520	7.46%	1.831%
36	11.668	1745	1754	1765	rVB3	546399	1658214	2.82%	0.692%
37	16.659	2677	2687	2706	rBV	1800075	3569063	6.07%	1.490%
38	19.467	3202	3212	3231	rBV	773669	1896813	3.23%	0.792%

Sum of corrected areas: 239489670

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On    : 14 Oct 2009  10:31 pm
Operator  : sheilac
Sample    : t39646-2,40x
Misc      : op13250,Ej634,1000,,,1,40,water
ALS Vial  : 22   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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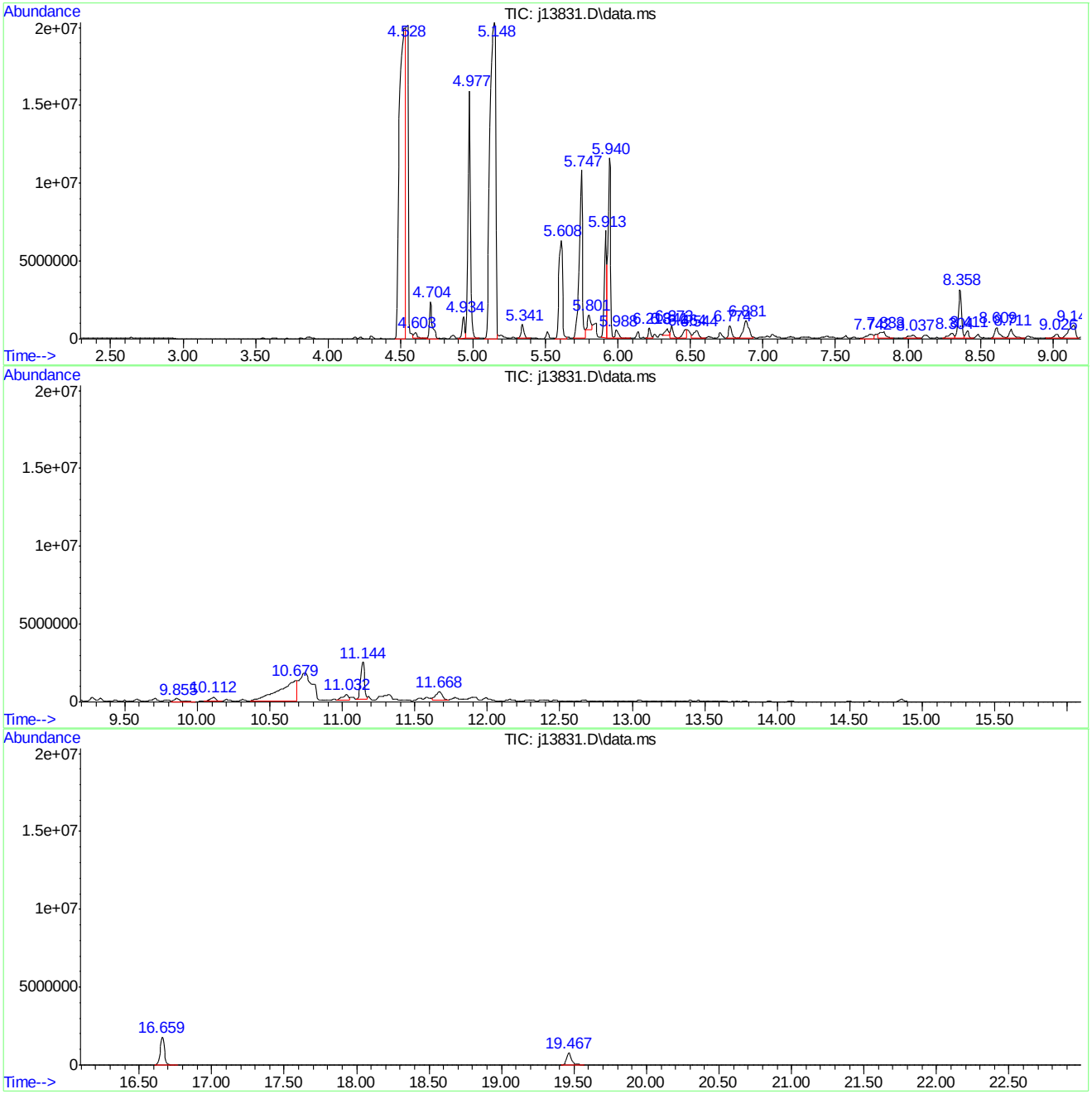


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

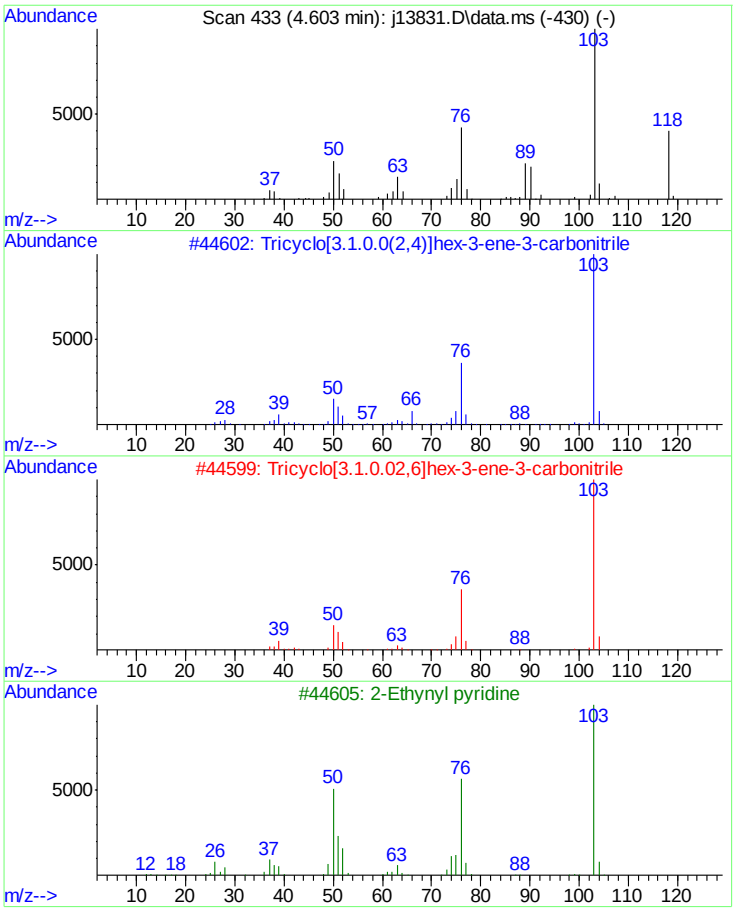
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

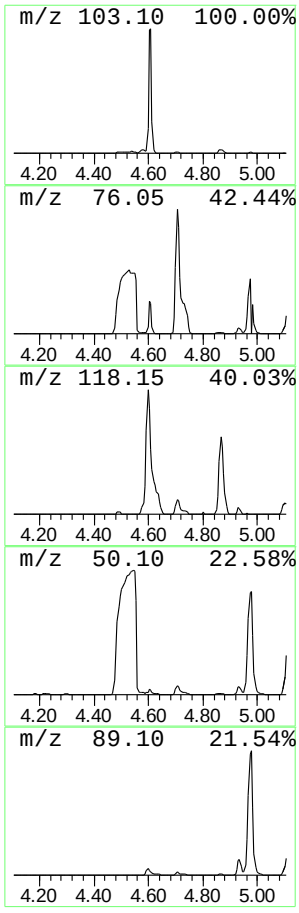
****

Peak Number 1 Tricyclo[3.1.0.0(2,4)]hex-3... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.603	7.31 ug/ml	591142	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[3.1.0.0(2,4)]hex-3-ene-...	103	C7H5N	103495-51-8	64
2	Tricyclo[3.1.0.02,6]hex-3-ene-3-...	103	C7H5N	1000142-17-4	64
3	2-Ethynyl pyridine	103	C7H5N	001945-84-2	64
4	Benzonitrile	103	C7H5N	000100-47-0	64
5	Benzonitrile	103	C7H5N	000100-47-0	58





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

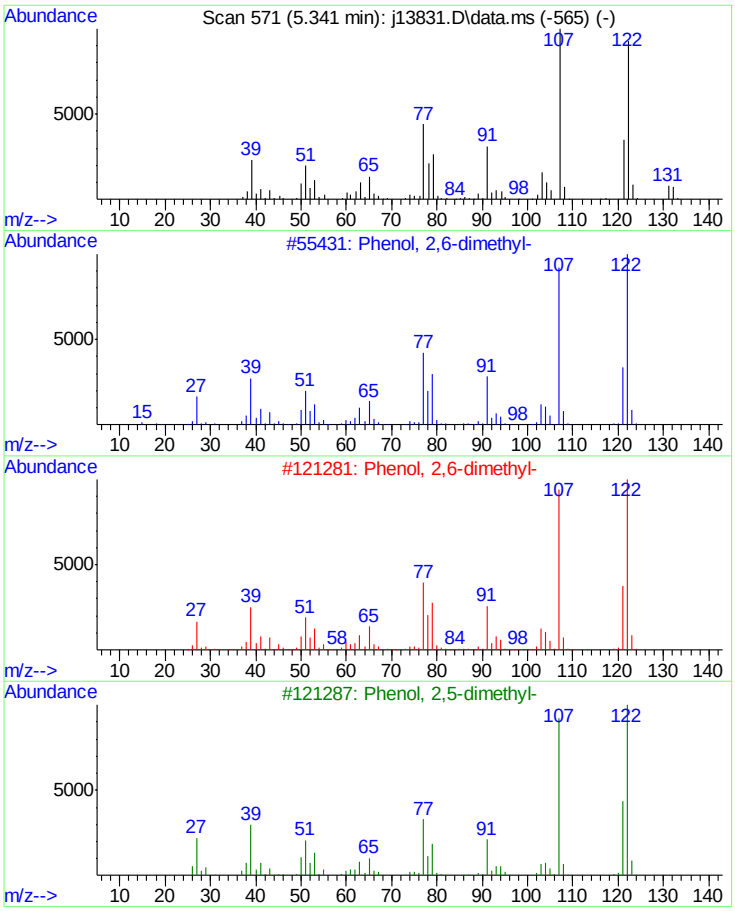
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

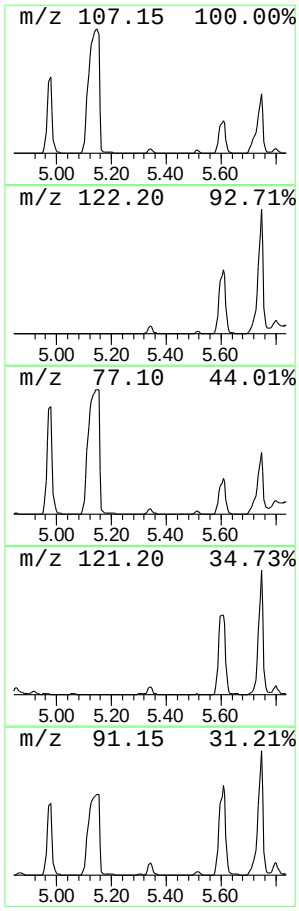
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Phenol, 2,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.341	5.92 ug/ml	1224630	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	98
2	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	96
3	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
4	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	93
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

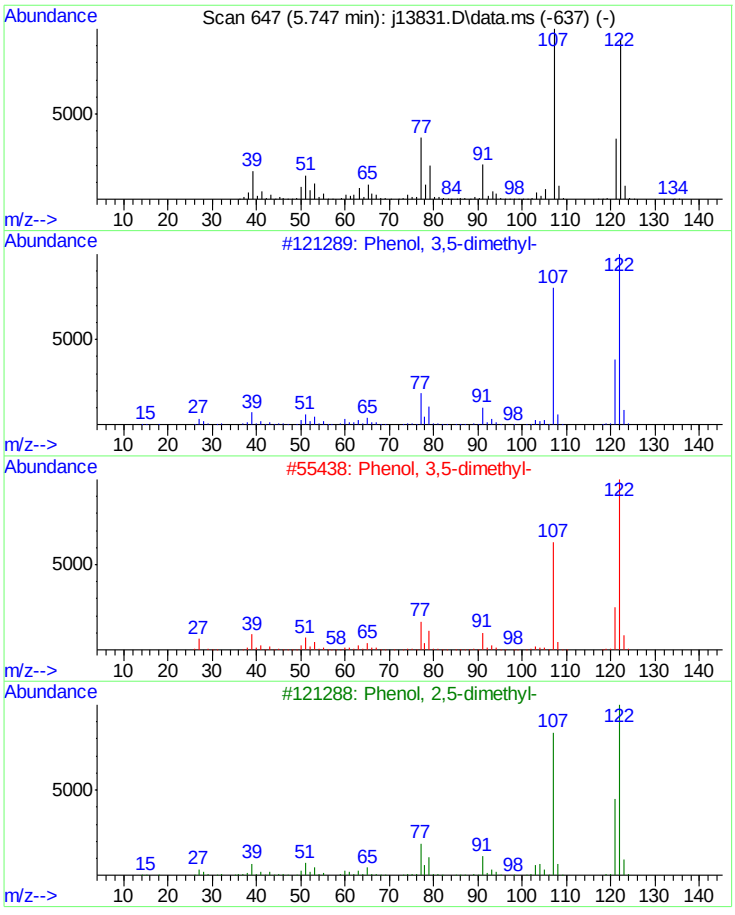
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

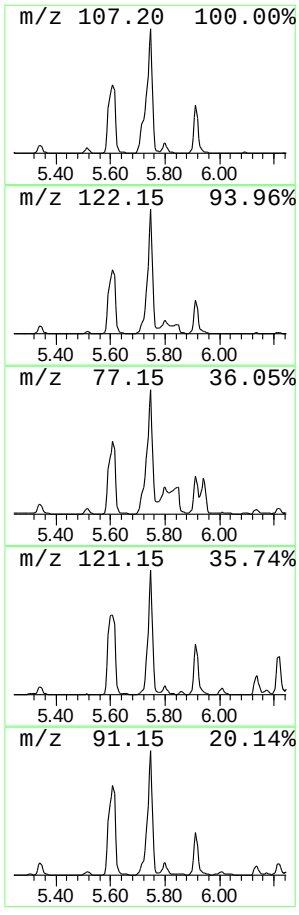
****

Peak Number 3 Phenol, 3,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.747	76.39 ug/ml	15807500	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
2	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	93
3	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
4	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91
5	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

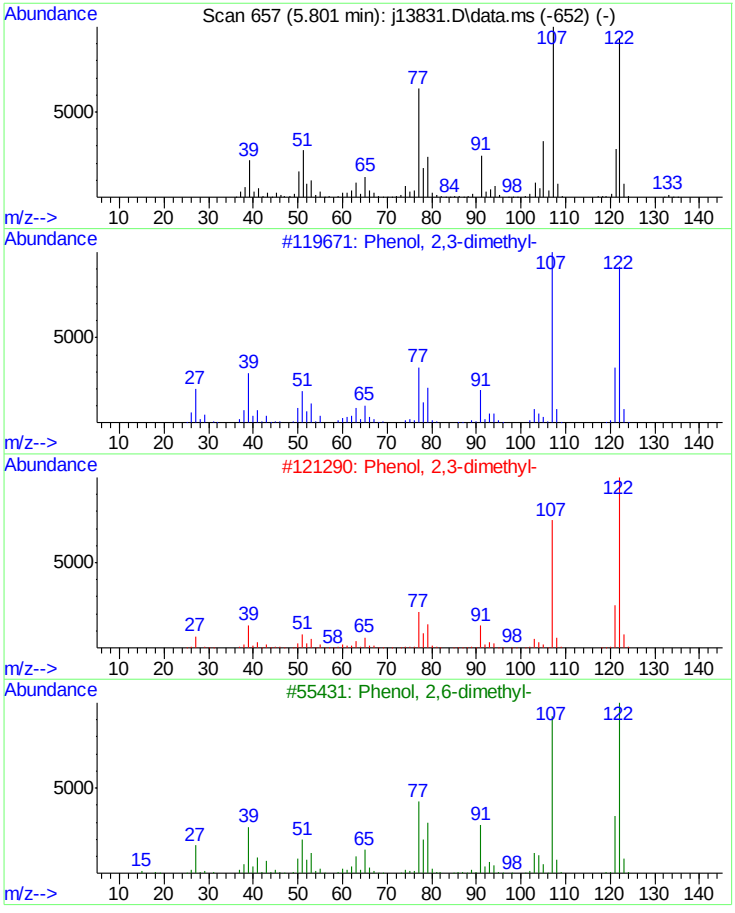
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

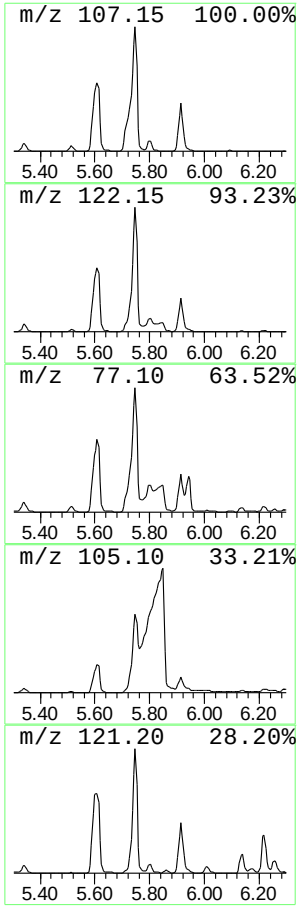
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Phenol, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.801	6.67 ug/ml	1380980	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	93
2	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91
3	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	90
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	90
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

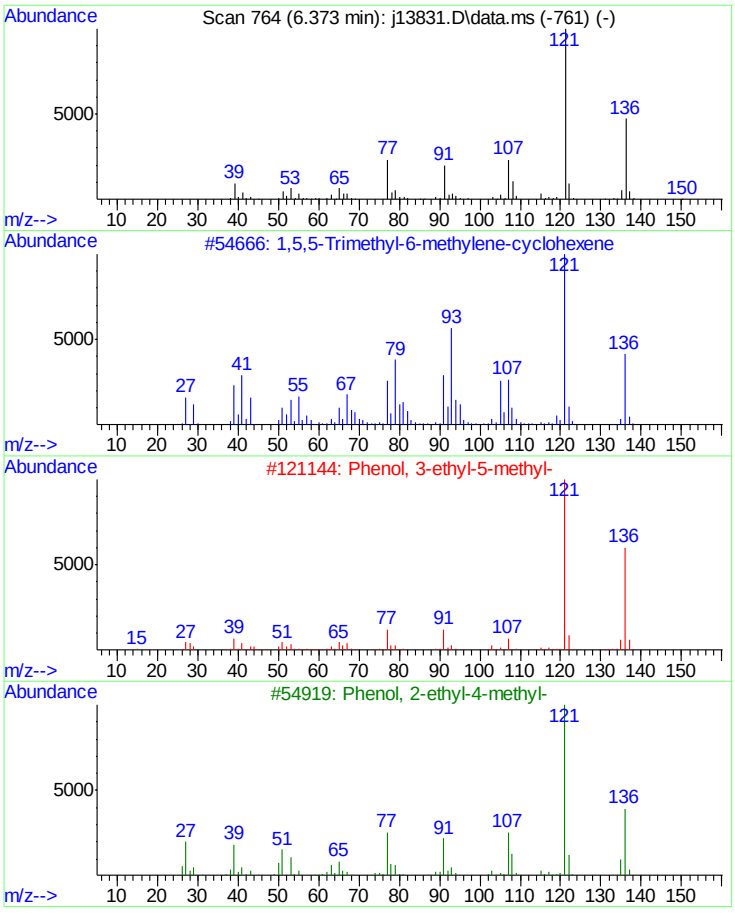
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

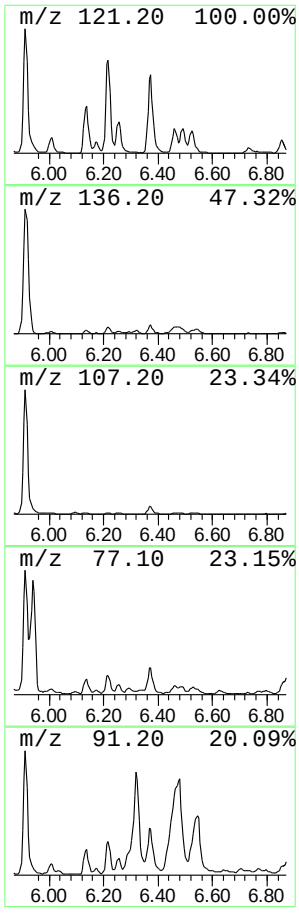
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1,5,5-Trimethyl-6-methylene... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.373	4.86 ug/ml	1006660	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5,5-Trimethyl-6-methylene-cycl...	136	C10H16	000514-95-4	90
2	Phenol, 3-ethyl-5-methyl-	136	C9H12O	000698-71-5	83
3	Phenol, 2-ethyl-4-methyl-	136	C9H12O	003855-26-3	80
4	Phenol, 3-(1-methylethyl)-	136	C9H12O	000618-45-1	80
5	Phenol, 2-ethyl-6-methyl-	136	C9H12O	001687-64-5	80





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

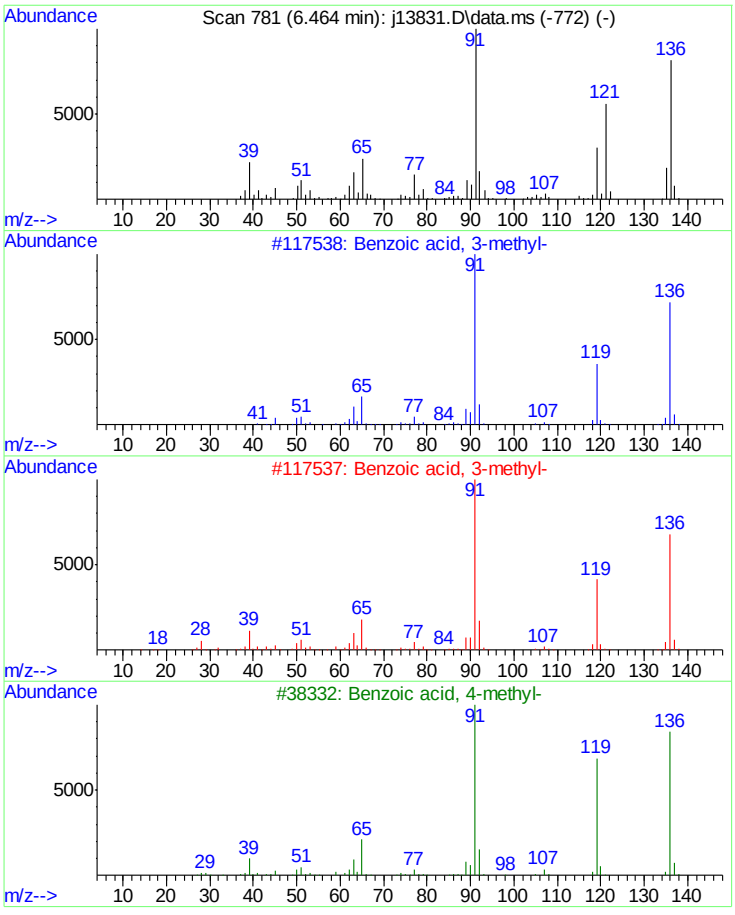
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

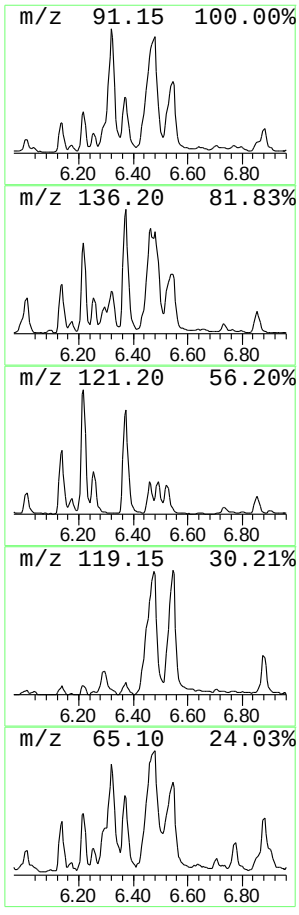
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzoic acid, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.464	4.94 ug/ml	1021820	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 3-methyl-	136	C8H8O2	000099-04-7	93
2	Benzoic acid, 3-methyl-	136	C8H8O2	000099-04-7	90
3	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	64
4	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	64
5	Benzeneacetic acid	136	C8H8O2	000103-82-2	62





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

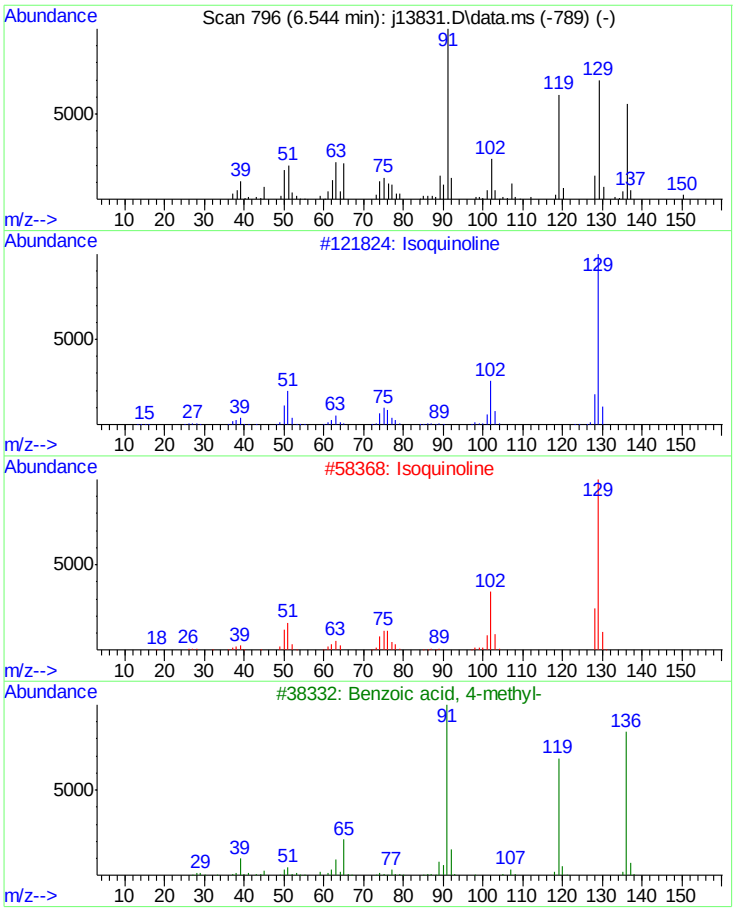
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

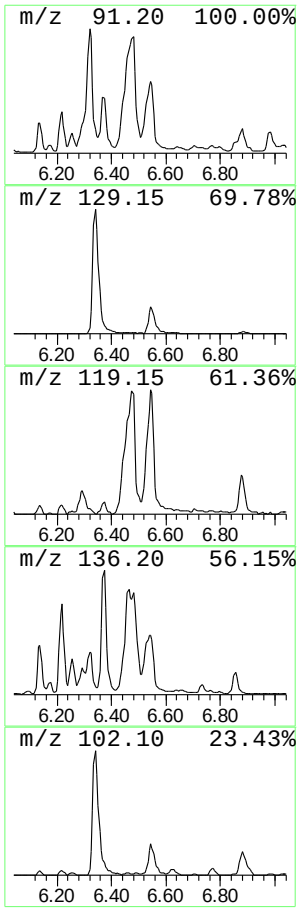
****

Peak Number 7 Isoquinoline Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.544	5.58 ug/ml	1155620	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoquinoline	129	C9H7N	000119-65-3	60
2	Isoquinoline	129	C9H7N	000119-65-3	60
3	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	50
4	Isoquinoline	129	C9H7N	000119-65-3	43
5	Benzamide, 4-methyl-	135	C8H9NO	000619-55-6	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

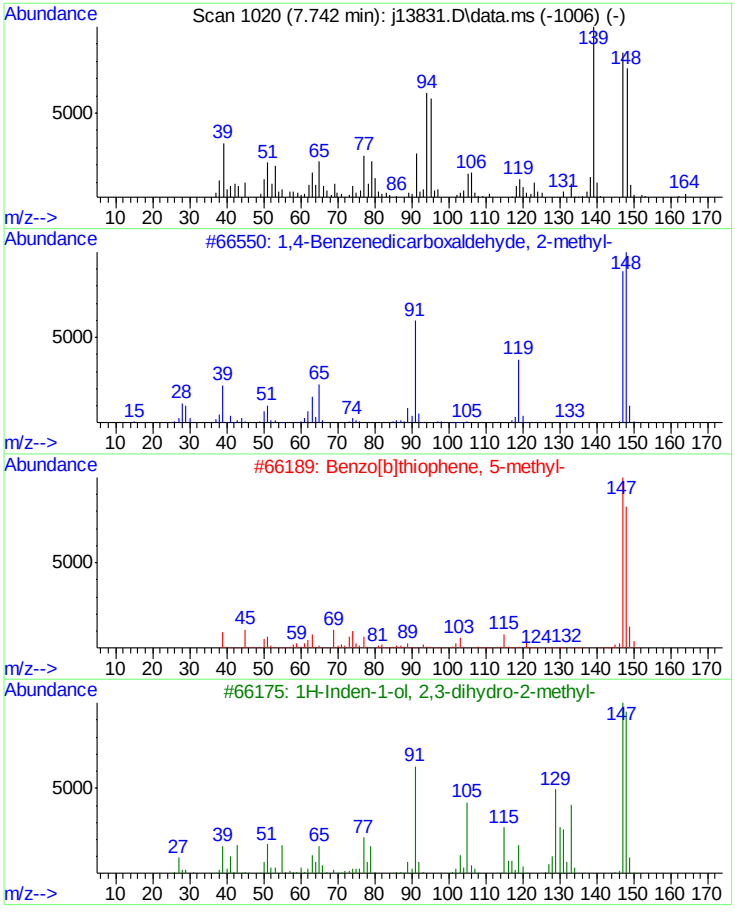
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

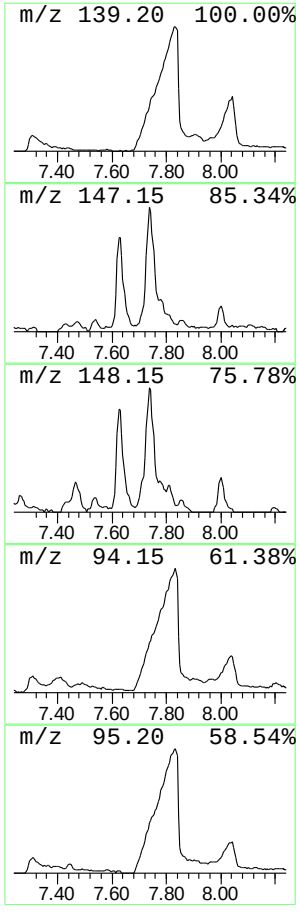
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1,4-Benzenedicarboxaldehyde... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.742	7.55 ug/ml	904744	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxaldehyde, 2-m...	148	C9H8O2	027587-17-3	46
2	Benzo[b]thiophene, 5-methyl-	148	C9H8S	014315-14-1	38
3	1H-Inden-1-ol, 2,3-dihydro-2-met...	148	C10H12O	017496-18-3	35
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	30
5	Benzaldehyde, 2,4,6-trimethyl-	148	C10H12O	000487-68-3	30





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

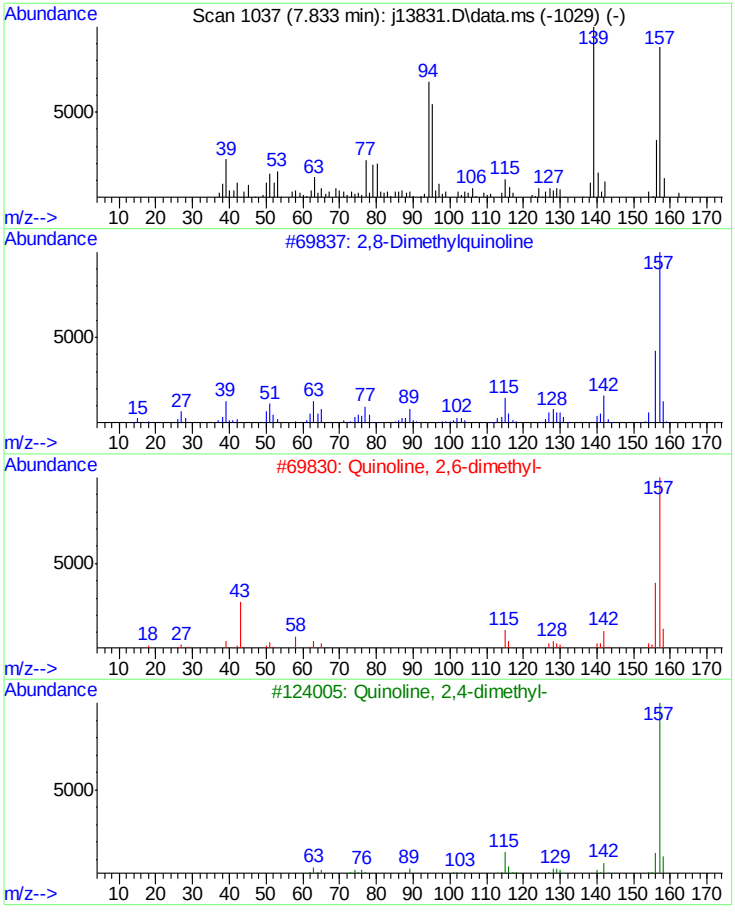
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

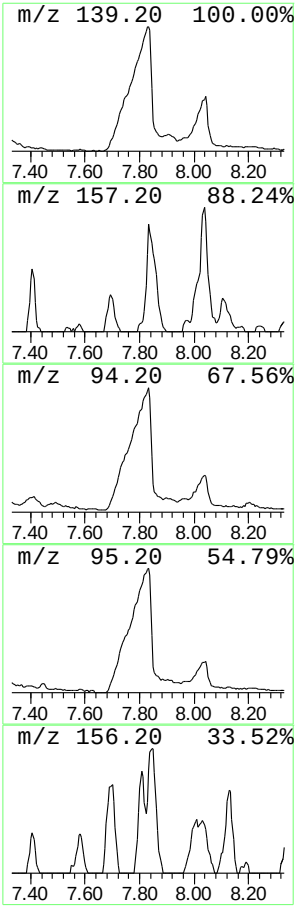
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 2,8-Dimethylquinoline Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.833	10.42 ug/ml	1248010	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethylquinoline	157	C11H11N	001463-17-8	74
2	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	70
3	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	38
4	Quinoline, 5,8-dimethyl-	157	C11H11N	002623-50-9	38
5	Quinoline, 2,7-dimethyl-	157	C11H11N	000093-37-8	38





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

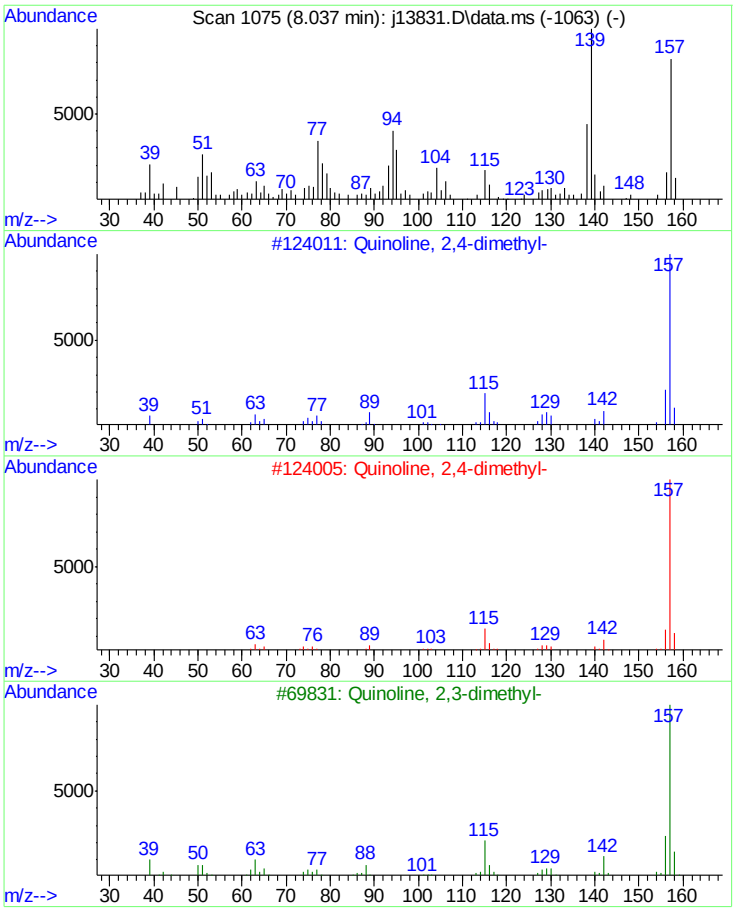
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

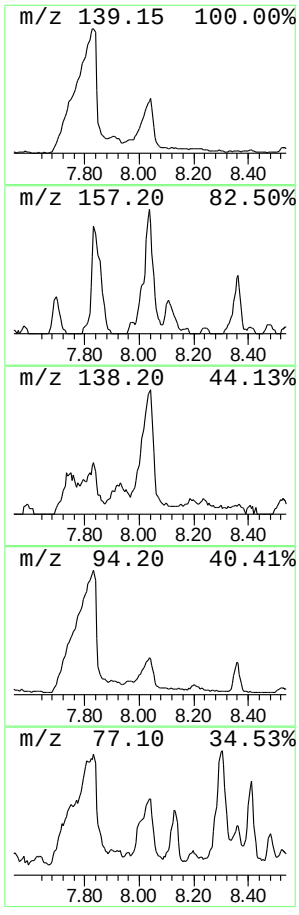
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Quinoline, 2,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.037	5.46 ug/ml	653784	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	60
2	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	60
3	Quinoline, 2,3-dimethyl-	157	C11H11N	001721-89-7	47
4	2(1H)-Pyridinethione, 1,6-dimethyl-	139	C7H9NS	019006-69-0	43
5	2(1H)-Pyridinethione, 1,5-dimethyl-	139	C7H9NS	019006-68-9	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

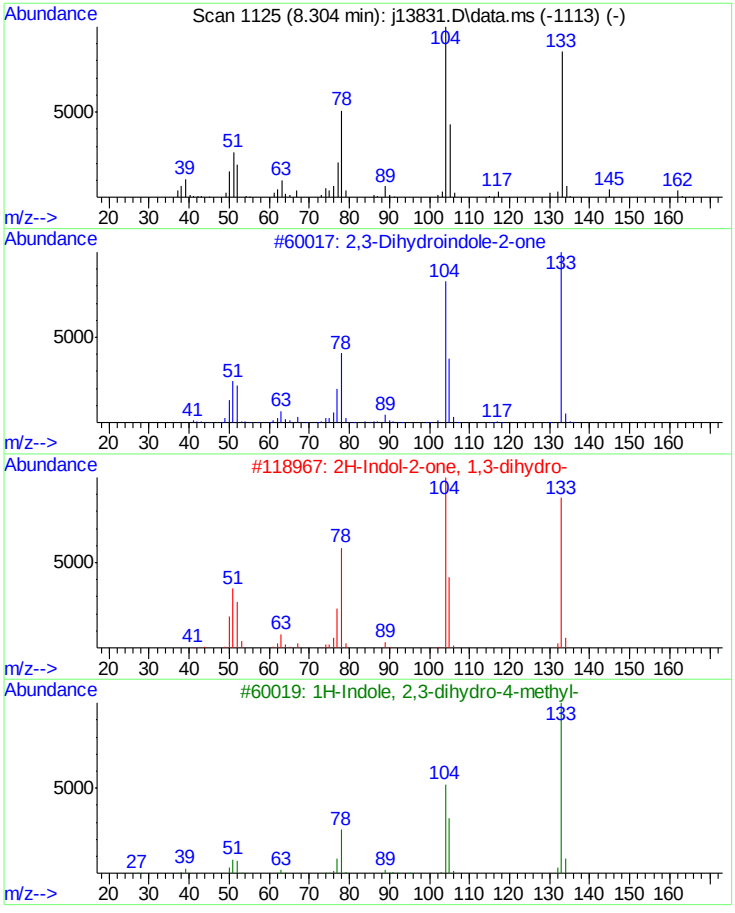
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

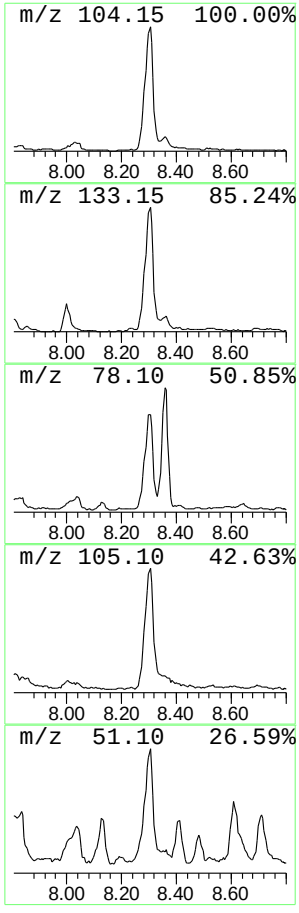
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 2,3-Dihydroindole-2-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.304	7.07 ug/ml	847135	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydroindole-2-one	133	C8H7NO	1000129-53-5	98
2	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	96
3	1H-Indole, 2,3-dihydro-4-methyl-	133	C9H11N	062108-16-1	95
4	Benzene, 1-isocyanato-2-methyl-	133	C8H7NO	000614-68-6	90
5	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	86





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

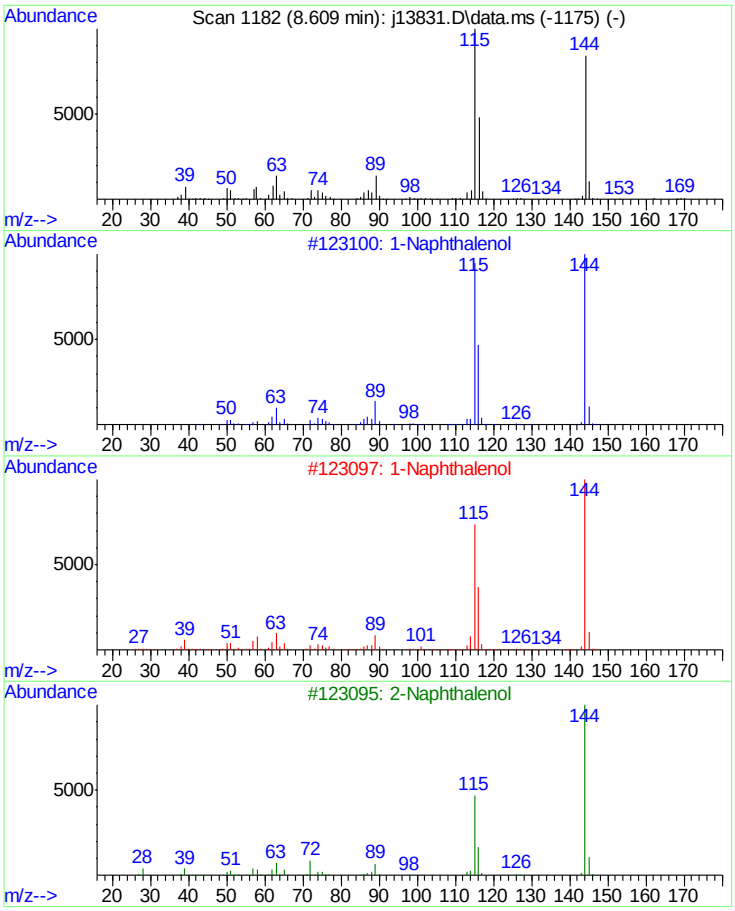
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

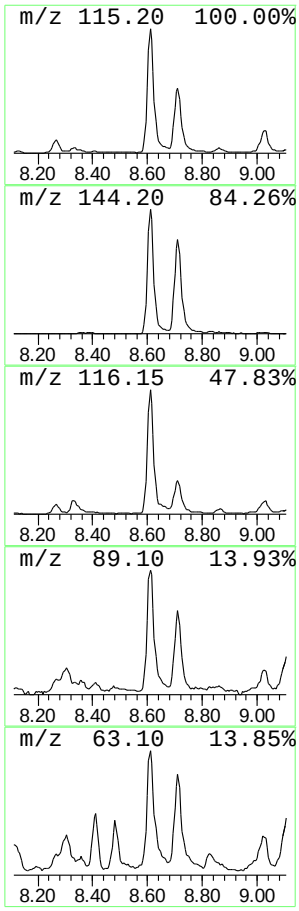
****

Peak Number 12 1-Naphthalenol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.609	11.37 ug/ml	1361490	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	94
3	2-Naphthalenol	144	C10H8O	000135-19-3	94
4	1-Naphthalenol	144	C10H8O	000090-15-3	93
5	2-Naphthalenol	144	C10H8O	000135-19-3	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

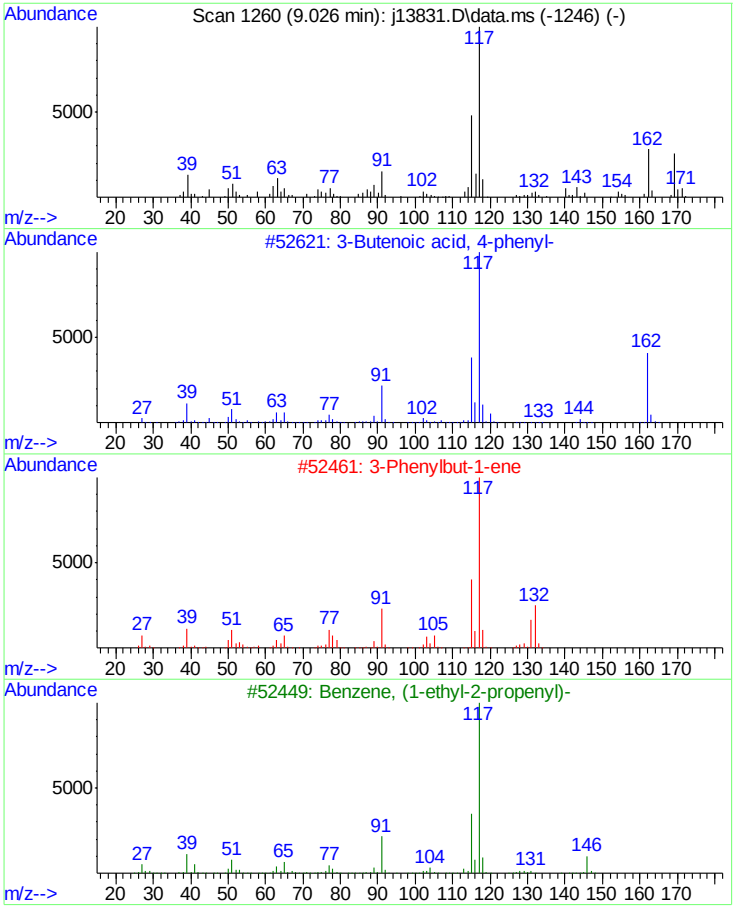
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

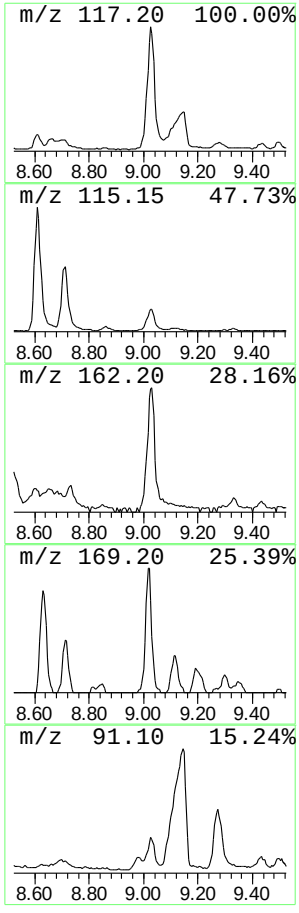
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 3-Butenoic acid, 4-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.026	5.66 ug/ml	678052	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Butenoic acid, 4-phenyl-	162	C10H10O2	002243-53-0	58
2	3-Phenylbut-1-ene	132	C10H12	000934-10-1	53
3	Benzene, (1-ethyl-2-propenyl)-	146	C11H14	019947-22-9	53
4	Benzeneacetic acid, ar-ethenyl-	162	C10H10O2	037570-14-2	50
5	Indan, 1-methyl-	132	C10H12	000767-58-8	47





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

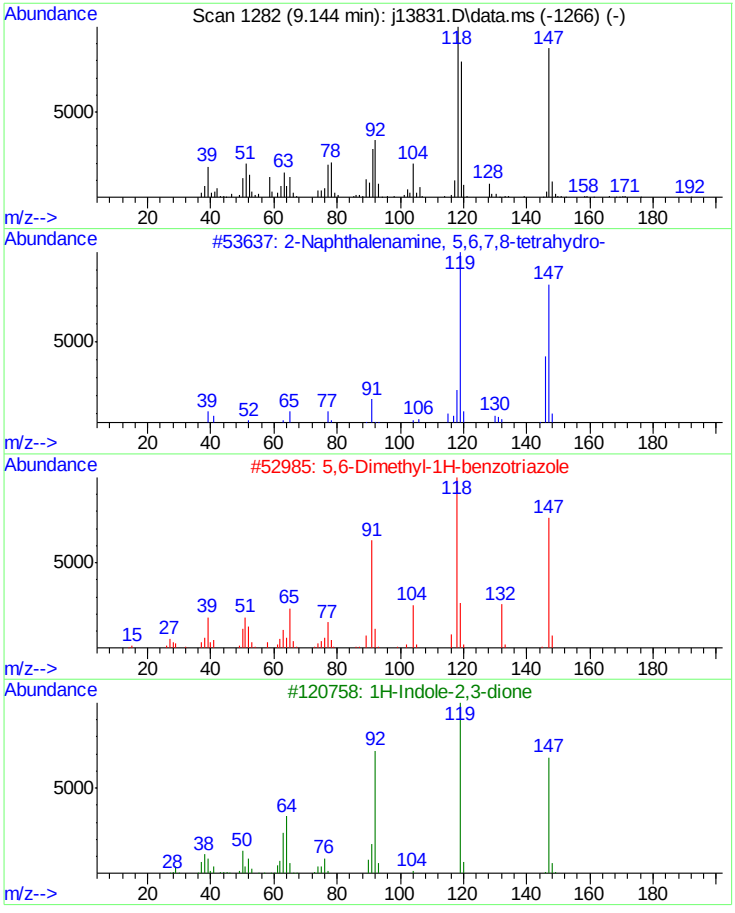
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

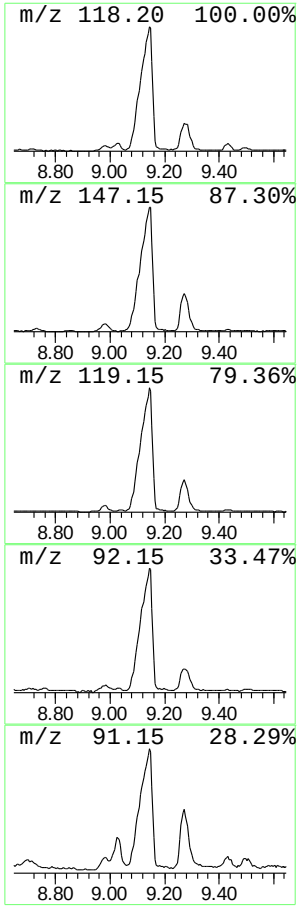
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 2-Naphthalenamine, 5,6,7,8-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.144	21.89 ug/ml	2621760	Acenaphthene-d10	8.358

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenamine, 5,6,7,8-tetra...	147	C10H13N	002217-43-8	64
2	5,6-Dimethyl-1H-benzotriazole	147	C8H9N3	004184-79-6	58
3	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	55
4	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	55
5	Pyrido[3,2-d]pyrimidin-4-ol	147	C7H5N3O	037538-67-3	49





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

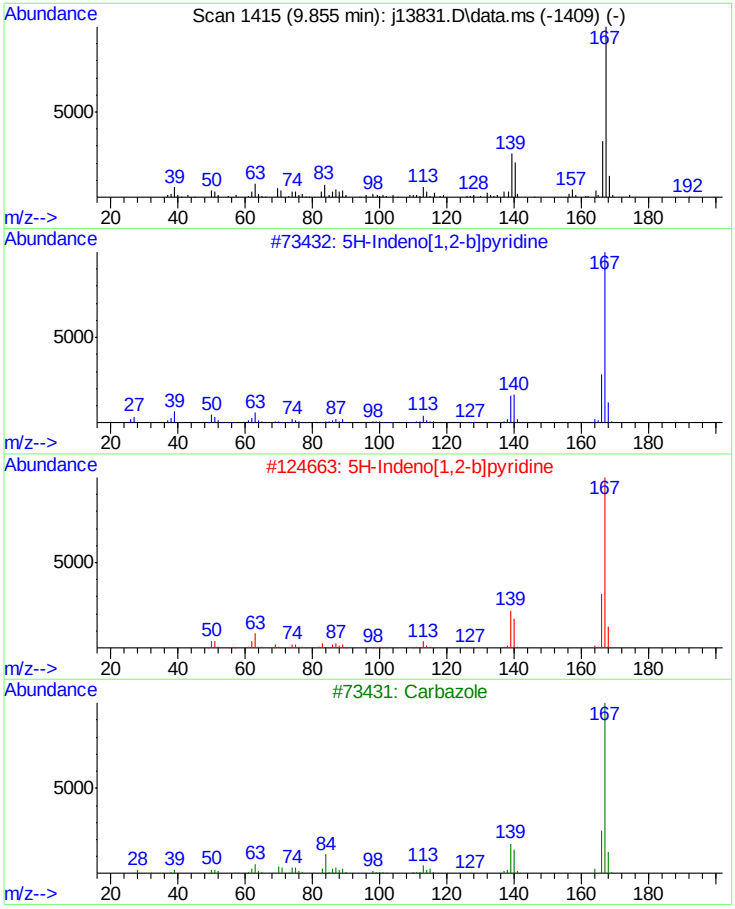
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

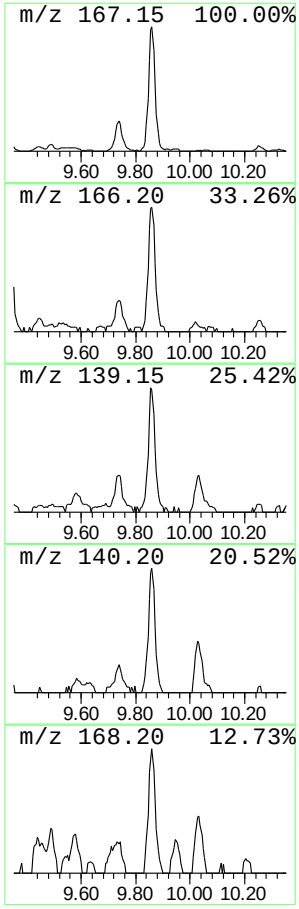
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 5H-Indeno[1,2-b]pyridine Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.855	5.69 ug/ml	623313	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	94
2	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	90
3	Carbazole	167	C12H9N	000086-74-8	90
4	Carbazole	167	C12H9N	000086-74-8	87
5	Carbazole	167	C12H9N	000086-74-8	83





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

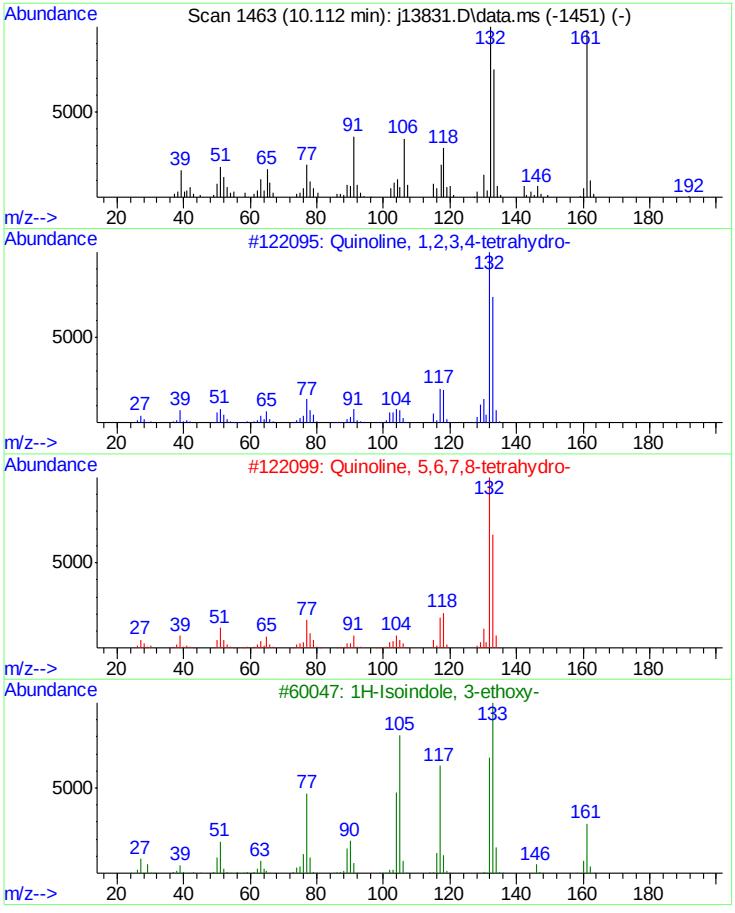
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

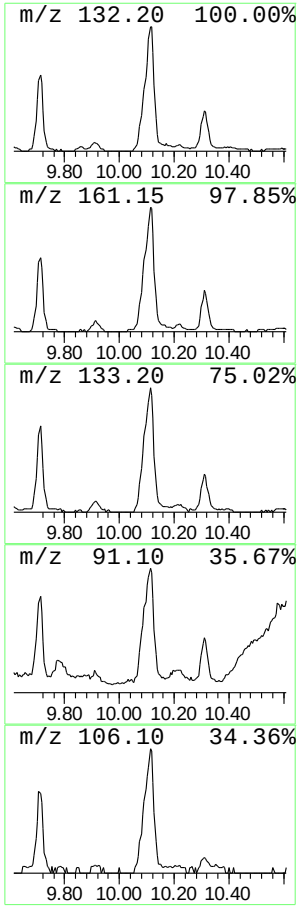
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Quinoline, 1,2,3,4-tetrahydro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.112	6.01 ug/ml	658816	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	91
2	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	64
3	1H-Isoindole, 3-ethoxy-	161	C10H11NO	049619-49-0	58
4	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	000155-09-9	58
5	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	55





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

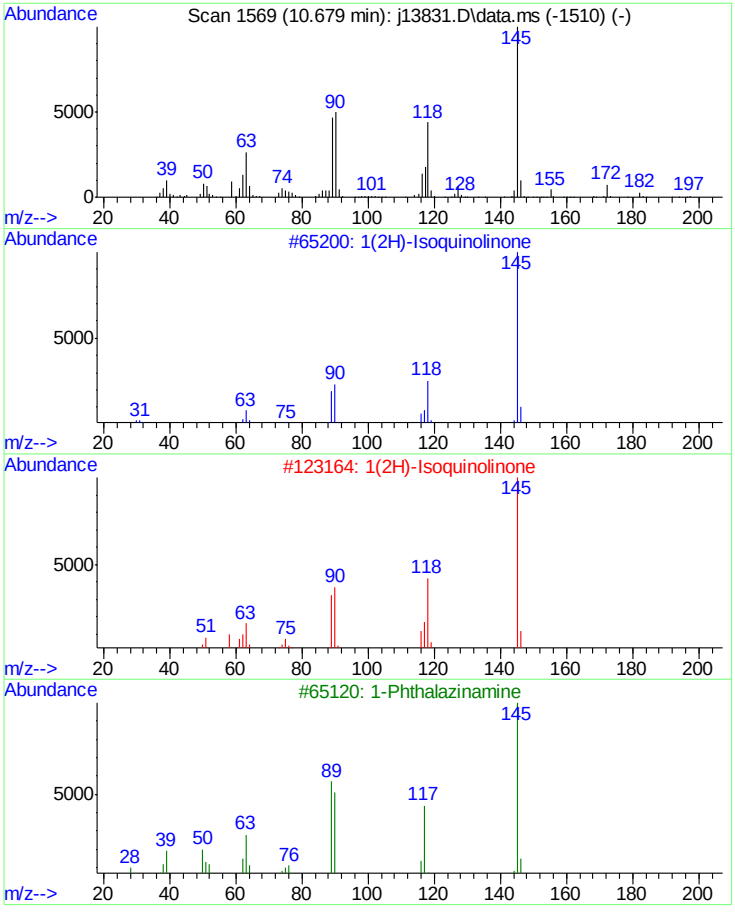
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

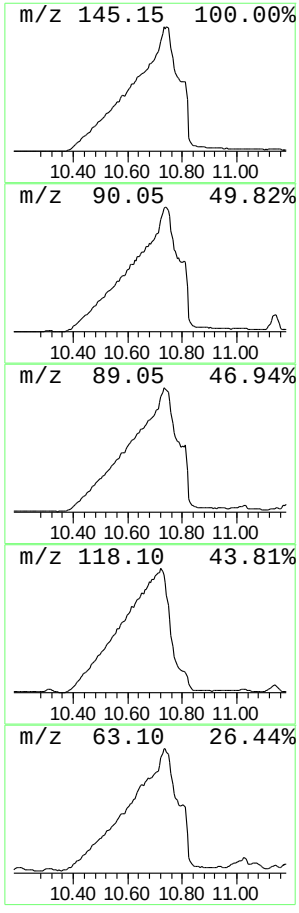
****

Peak Number 17 1(2H)-Isoquinolinone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.679	101.05 ug/ml	11078300	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Isoquinolinone	145	C9H7NO	000491-30-5	97
2	1(2H)-Isoquinolinone	145	C9H7NO	000491-30-5	93
3	1-Phthalazinamine	145	C8H7N3	019064-69-8	72
4	Oxazole, 2-phenyl-	145	C9H7NO	020662-88-8	68
5	3-Quinolinol	145	C9H7NO	000580-18-7	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

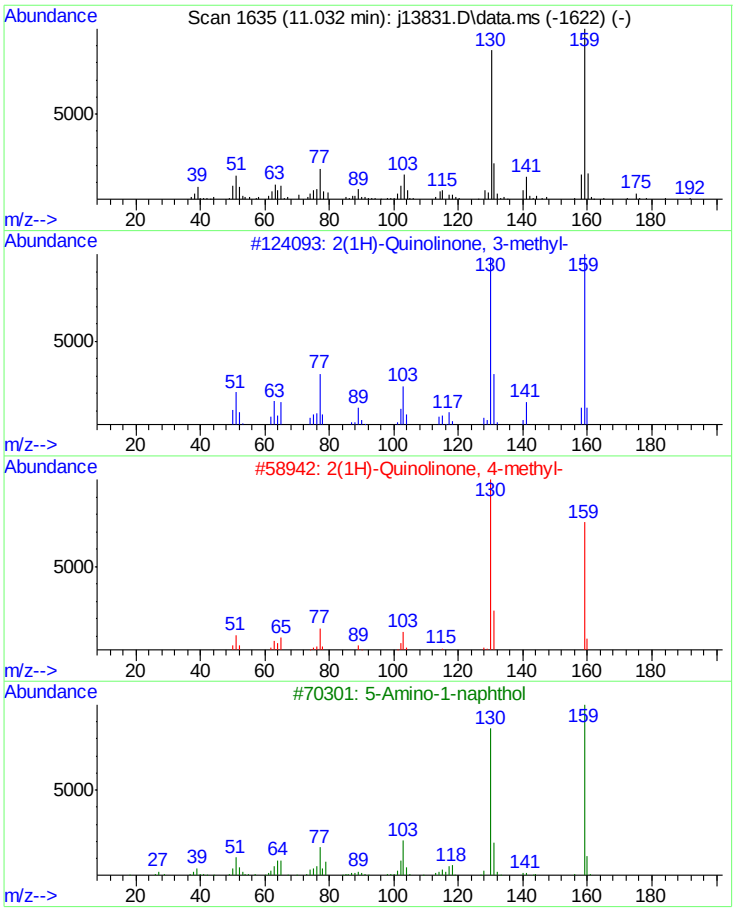
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

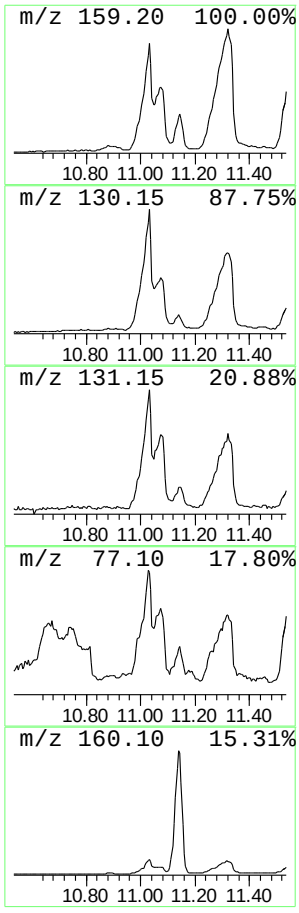
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 2(1H)-Quinolinone, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.032	8.06 ug/ml	883326	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	97
2	2(1H)-Quinolinone, 4-methyl-	159	C10H9NO	000607-66-9	87
3	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	81
4	Oxazole, 4-methyl-5-phenyl-	159	C10H9NO	001008-29-3	80
5	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	76





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13831.D
Acq On : 14 Oct 2009 10:31 pm
Operator : sheilac
Sample : t39646-2,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Tricyclo[3.1.0....	4.603	7.3	ug/ml	591142	1	4.704	3236040	40.0
Phenol, 2,6-dim...	5.341	5.9	ug/ml	1224630	2	5.913	8277340	40.0
Phenol, 3,5-dim...	5.747	76.4	ug/ml	15807500	2	5.913	8277340	40.0
Phenol, 2,3-dim...	5.801	6.7	ug/ml	1380980	2	5.913	8277340	40.0
1,5,5-Trimethyl...	6.373	4.9	ug/ml	1006660	2	5.913	8277340	40.0
Benzoic acid, 3...	6.464	4.9	ug/ml	1021820	2	5.913	8277340	40.0
Isoquinoline	6.544	5.6	ug/ml	1155620	2	5.913	8277340	40.0
1,4-Benzenedica...	7.742	7.5	ug/ml	904744	3	8.358	4790270	40.0
2,8-Dimethylqui...	7.833	10.4	ug/ml	1248010	3	8.358	4790270	40.0
Quinoline, 2,4-...	8.037	5.5	ug/ml	653784	3	8.358	4790270	40.0
2,3-Dihydroindo...	8.304	7.1	ug/ml	847135	3	8.358	4790270	40.0
1-Naphthalenol	8.609	11.4	ug/ml	1361490	3	8.358	4790270	40.0
3-Butenoic acid...	9.026	5.7	ug/ml	678052	3	8.358	4790270	40.0
2-Naphthalenami...	9.144	21.9	ug/ml	2621760	3	8.358	4790270	40.0
5H-Indeno[1,2-b...	9.855	5.7	ug/ml	623313	4	11.144	4385520	40.0
Quinoline, 1,2,...	10.112	6.0	ug/ml	658816	4	11.144	4385520	40.0
1(2H)-Isoquinol...	10.679	101.1	ug/ml	11078300	4	11.144	4385520	40.0
2(1H)-Quinolino...	11.032	8.1	ug/ml	883326	4	11.144	4385520	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 16 12:15:00 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

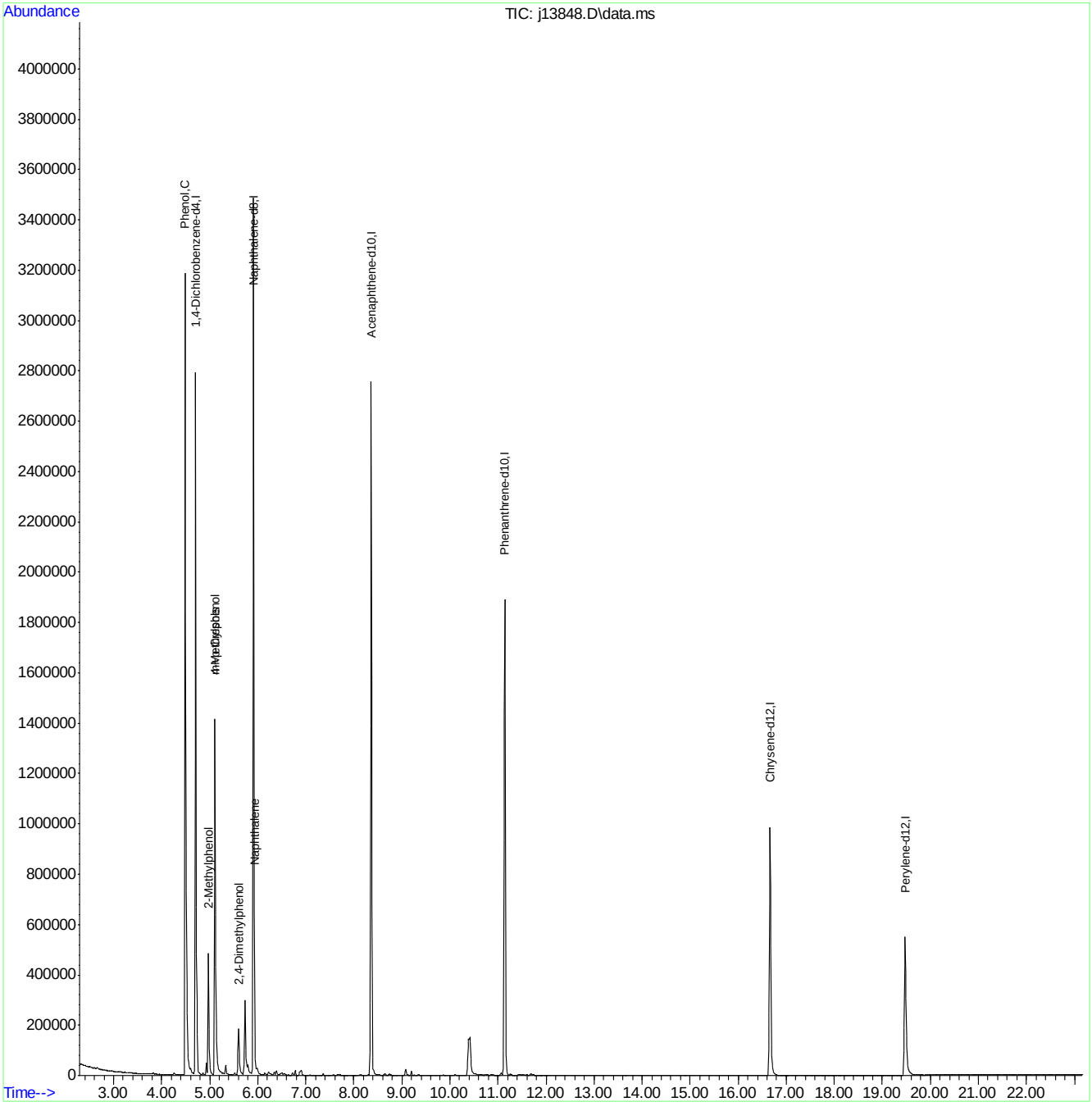
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	490395	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1739382	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.363	164	906797	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1182527	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	782224	40.00	ug/ml	-0.07
80) Perylene-d12	19.477	264	514143	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
6) Phenol	4.490	94	1402651	67.39	ug/ml#	76
14) 2-Methylphenol	4.972	108	129770	8.89	ug/ml	99
16) 4-Methylphenol	5.111	108	450574	29.19	ug/ml#	64
17) m+p-Cresols	5.111	108	450574	29.19	ug/ml#	64
25) 2,4-Dimethylphenol	5.603	122	64910	4.77	ug/ml	100
30) Naphthalene	5.929	128	223010	4.71	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

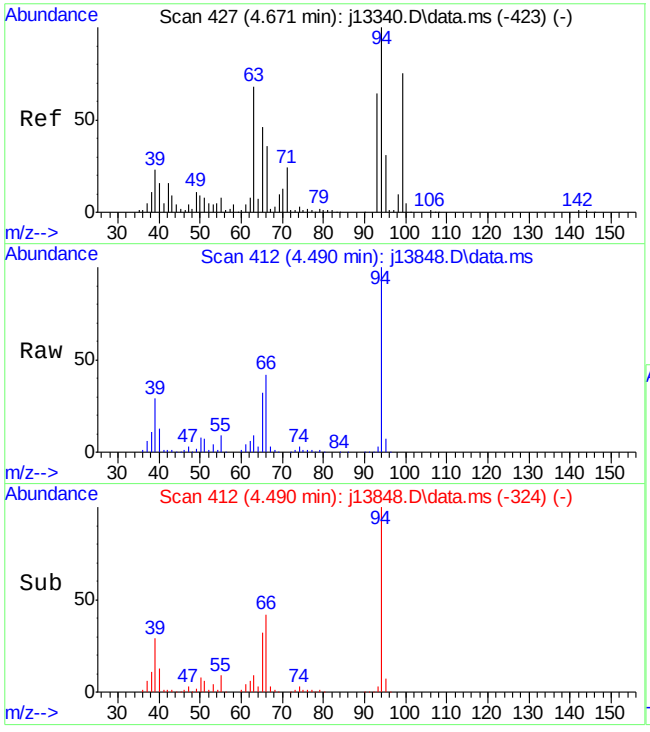
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 16 12:15:00 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



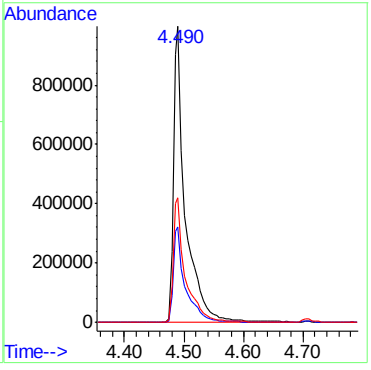
ACCUTEST Laboratories T39646

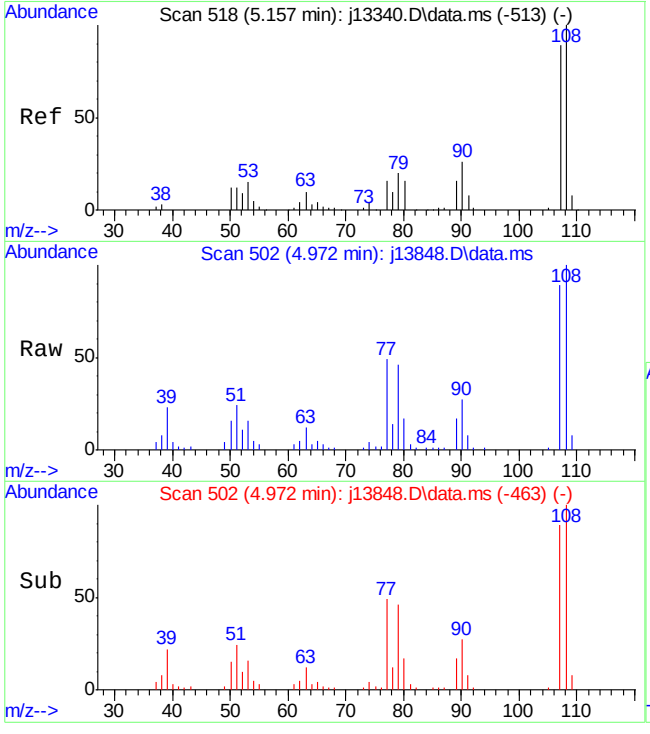


#6
Phenol
Concen: 67.39 ug/ml
RT: 4.490 min Scan# 412
Delta R.T. -0.028 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion: 94 Resp: 1402651

Ion	Ratio	Lower	Upper
94	100		
65	33.2	35.3	75.3#
66	43.8	37.4	77.4

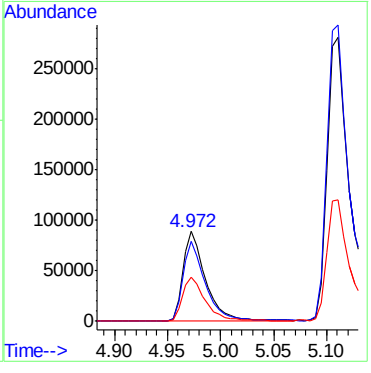


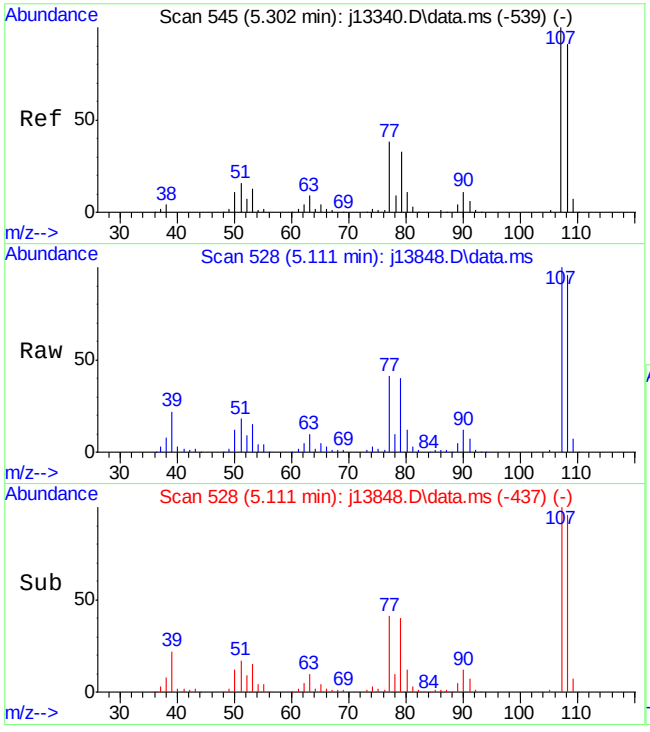


#14
2-Methylphenol
Concen: 8.89 ug/ml
RT: 4.972 min Scan# 502
Delta R.T. 0.011 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion:108 Resp: 129770

Ion	Ratio	Lower	Upper
108	100		
107	88.6	68.3	108.3
77	49.9	30.8	70.8

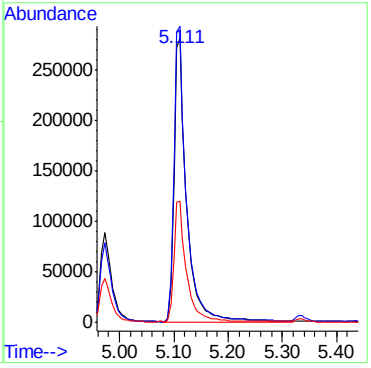


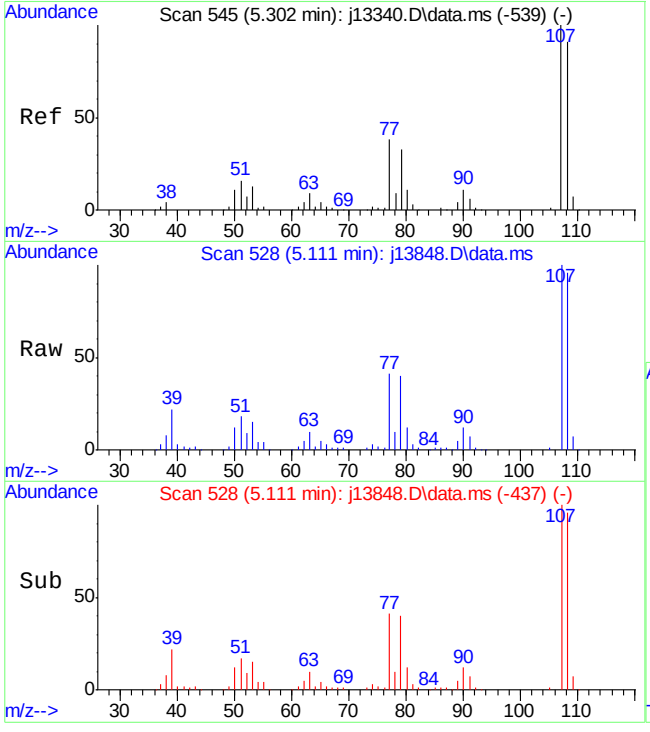


#16
4-Methylphenol
Concen: 29.19 ug/ml
RT: 5.111 min Scan# 528
Delta R.T. -0.011 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion:108 Resp: 450574

Ion	Ratio	Lower	Upper
108	100		
107	104.6	139.5	179.5#
77	42.8	36.8	76.8

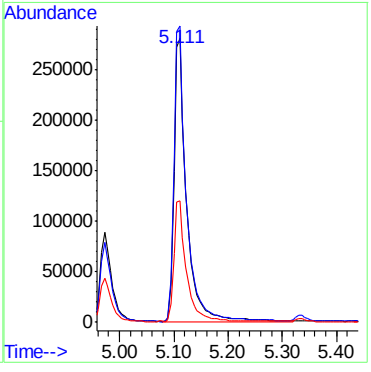


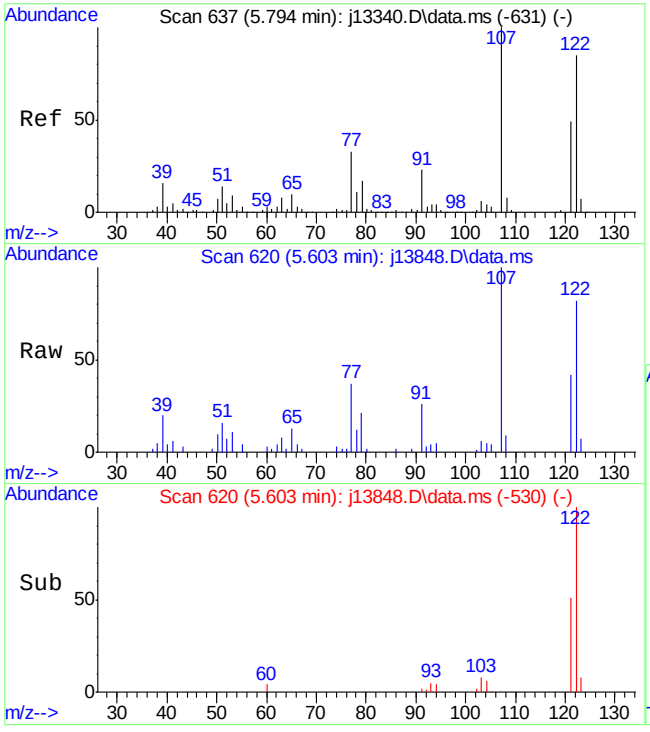


#17
m+p-Cresols
Concen: 29.19 ug/ml
RT: 5.111 min Scan# 528
Delta R.T. -0.011 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion:108 Resp: 450574

Ion	Ratio	Lower	Upper
108	100		
107	104.6	139.5	179.5#
77	42.8	36.8	76.8

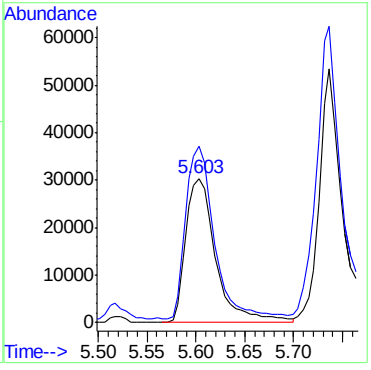


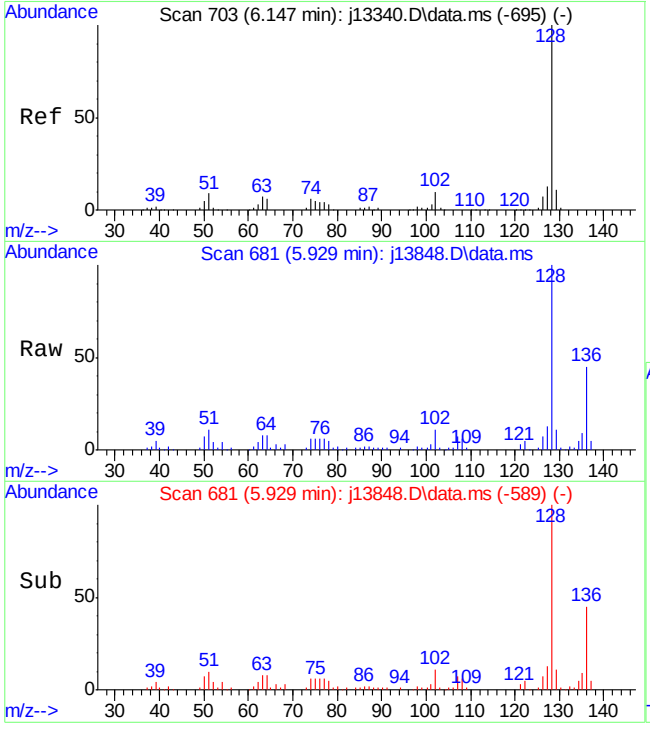


#25
2,4-Dimethylphenol
Concen: 4.77 ug/ml
RT: 5.603 min Scan# 620
Delta R.T. -0.016 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion:122 Resp: 64910

Ion	Ratio	Lower	Upper
122	100		
107	115.8	96.3	136.3

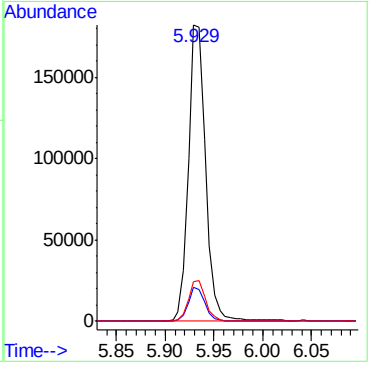




#30
Naphthalene
Concen: 4.71 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13848.D
Acq: 15 Oct 2009 4:19 pm

Tgt Ion:128 Resp: 223010

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	31.2
127	13.3	0.0	33.8



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13848.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.490	408	412	431	rBV	3185591	4557178	98.49%	16.535%
2	4.704	448	452	469	rVB	2789307	3310534	71.55%	12.011%
3	4.929	490	494	498	rBV	50352	58608	1.27%	0.213%
4	4.972	498	502	519	rVB	483039	687862	14.87%	2.496%
5	5.111	523	528	550	rVV	1407487	2196914	47.48%	7.971%
6	5.336	565	570	578	rVB	36520	48936	1.06%	0.178%
7	5.603	613	620	637	rBV2	184313	382885	8.27%	1.389%
8	5.737	637	645	654	rBV	295012	504851	10.91%	1.832%
9	5.795	654	656	666	rVB2	32154	53049	1.15%	0.192%
10	5.913	672	678	689	rBV	3479731	4627050	100.00%	16.788%
11	5.988	689	692	703	rVB3	24623	46866	1.01%	0.170%
12	8.363	1128	1136	1143	rBV	2756576	4035572	87.22%	14.642%
13	9.080	1265	1270	1283	rBB2	24206	48493	1.05%	0.176%
14	10.390	1506	1515	1516	rBV	146921	231013	4.99%	0.838%
15	11.144	1647	1656	1670	rVB2	1890446	3312873	71.60%	12.020%
16	16.664	2679	2688	2706	rBV	988010	2096511	45.31%	7.607%
17	19.477	3204	3214	3232	rBV	551081	1362367	29.44%	4.943%

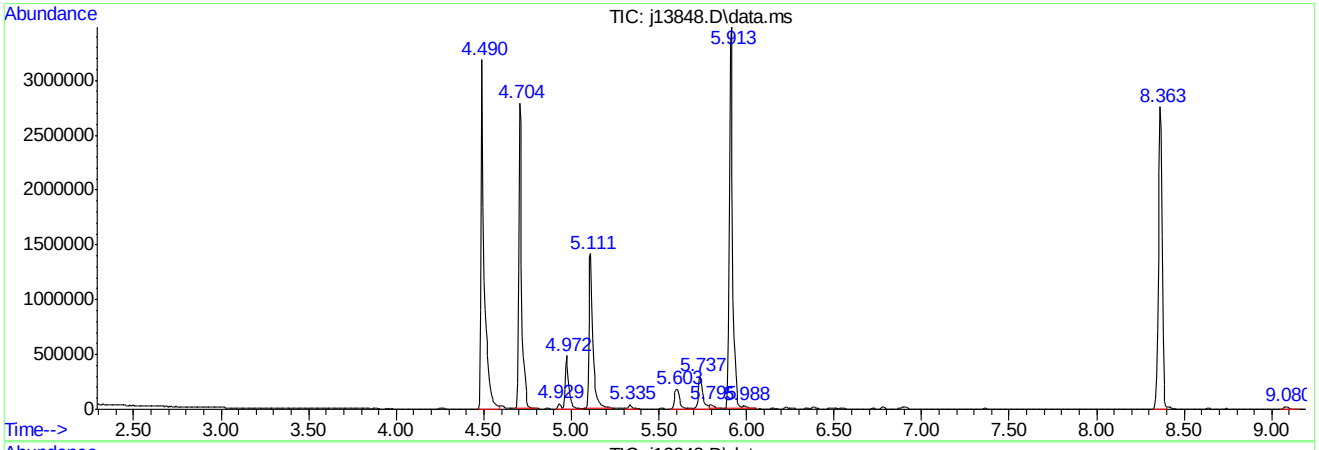
Sum of corrected areas: 27561562

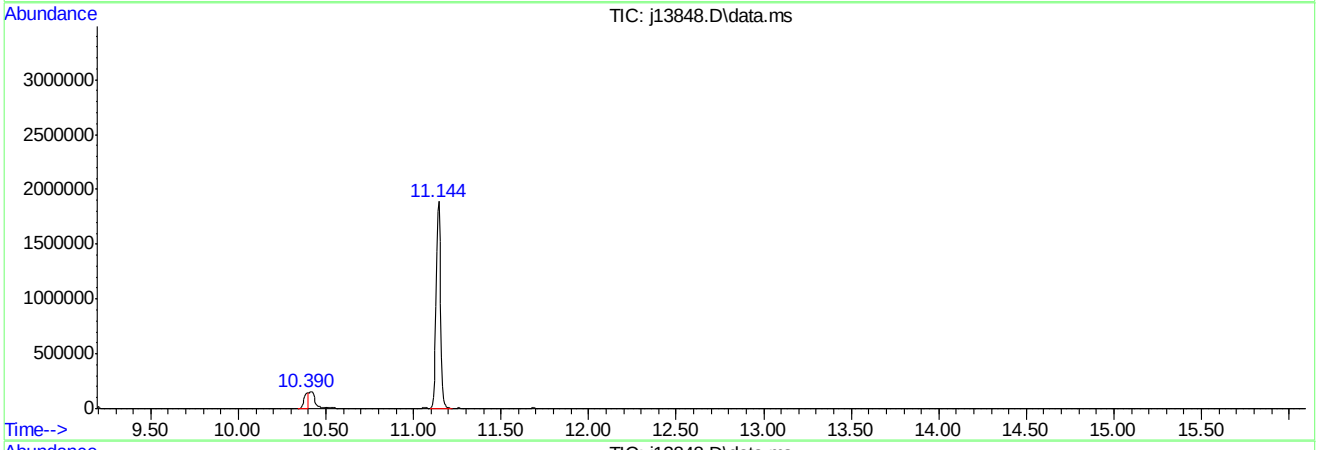
LSC Report - Integrated Chromatogram

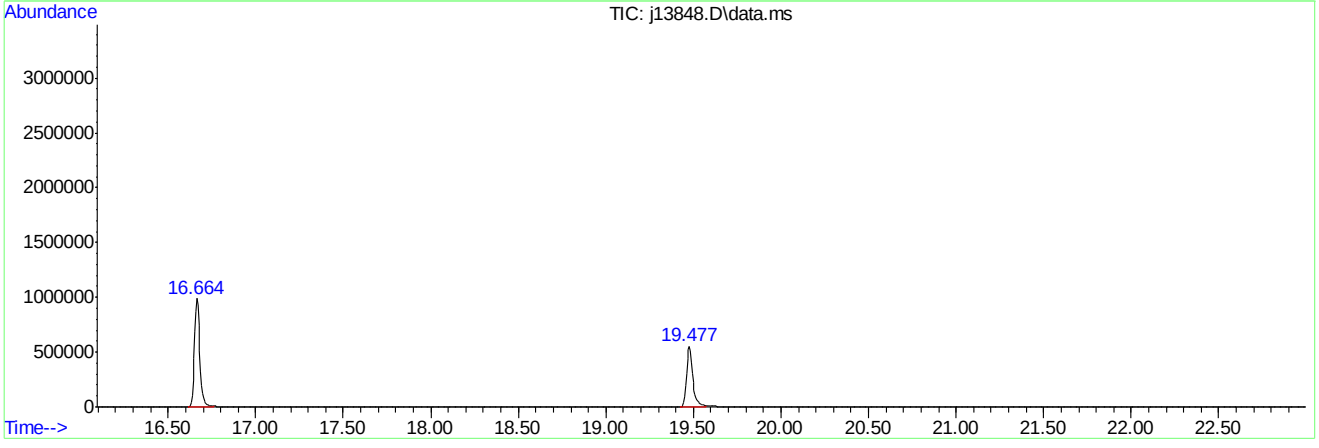
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

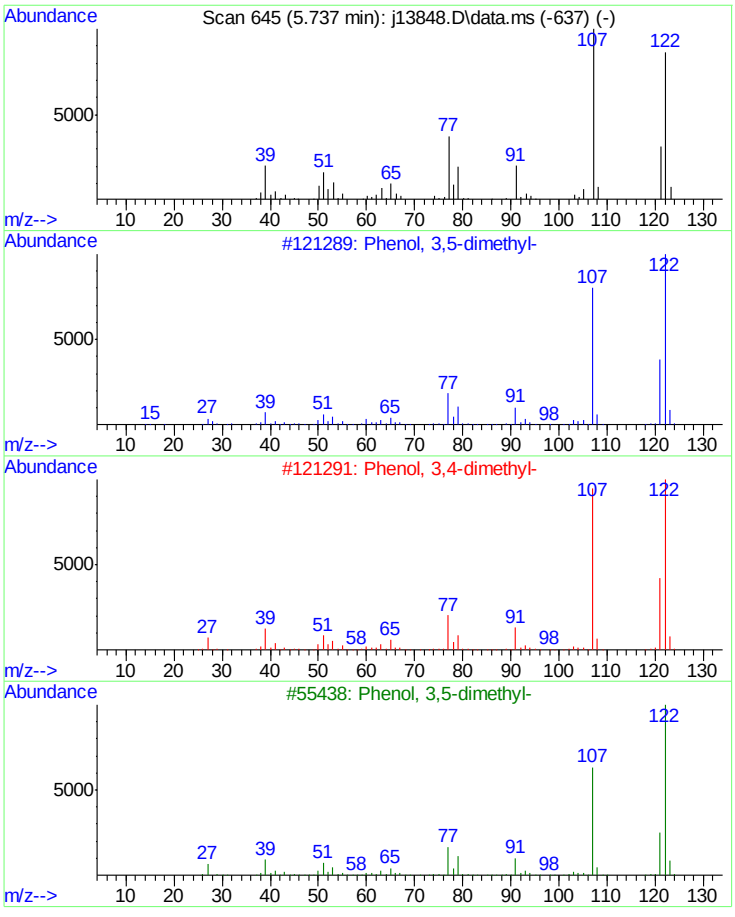
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

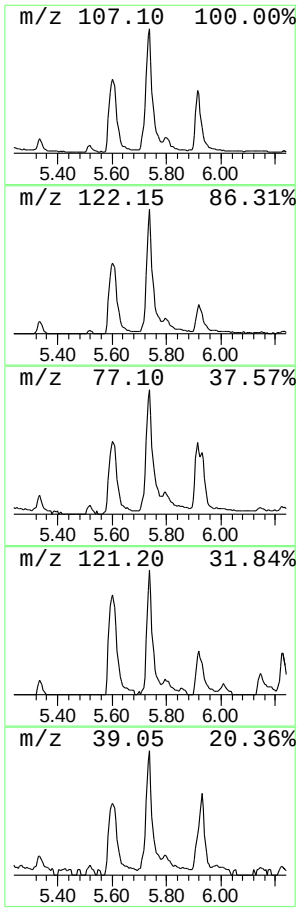
****

Peak Number 1 Phenol, 3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.737	4.36 ug/ml	504851	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	97
2	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	95
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	94
5	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13848.D
Acq On : 15 Oct 2009 4:19 pm
Operator : sheilac
Sample : t39646-2,800x
Misc : op13250,Ej635,1000,,,1,800,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Phenol, 3,5-dim...	5.737	4.4	ug/ml	504851	2	5.913	4627050	40.0

8.1.7

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 11:05:38 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	576798	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	2152765	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.363	164	1137588	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1491557	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	1169961	40.00	ug/ml	-0.07
80) Perylene-d12	19.472	264	756868	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	15069m	0.83	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.83%#	
5) Phenol-d5 (SURR)	4.490	99	19344	0.86	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.86%#	
21) Nitrobenzene-d5 (SURR)	5.207	82	12206	0.54	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.08%#	
40) 2-Fluorobiphenyl (SURR)	7.298	172	23175	0.52	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery	=	1.04%#	
62) 2,4,6-Tribromophenol (...	9.807	330	4079	0.81	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.81%#	
74) Terphenyl-d14	14.508	244	15733	0.56	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	1.12%#	
Target Compounds						Qvalue
3) Pyridine	2.431	79	762626	44.58	ug/ml	94
6) Phenol	4.501	94	7270982	296.99	ug/ml#	74
7) Aniline	4.464	93	294225	12.08	ug/ml#	42
14) 2-Methylphenol	4.966	108	1344988	78.37	ug/ml	98
16) 4-Methylphenol	5.122	108	3813134	210.02	ug/ml#	69
17) m+p-Cresols	5.122	108	3813134	210.02	ug/ml#	69
25) 2,4-Dimethylphenol	5.608	122	2083048	123.56	ug/ml	99
30) Naphthalene	5.940	128	3861864	65.86	ug/ml	99
34) 2-Methylnaphthalene	6.774	142	76964	2.15	ug/ml	98
35) 1-Methylnaphthalene	6.774	142	55417	1.48	ug/ml	97
47) Acenaphthene	8.411	154	29992	0.95	ug/ml	99

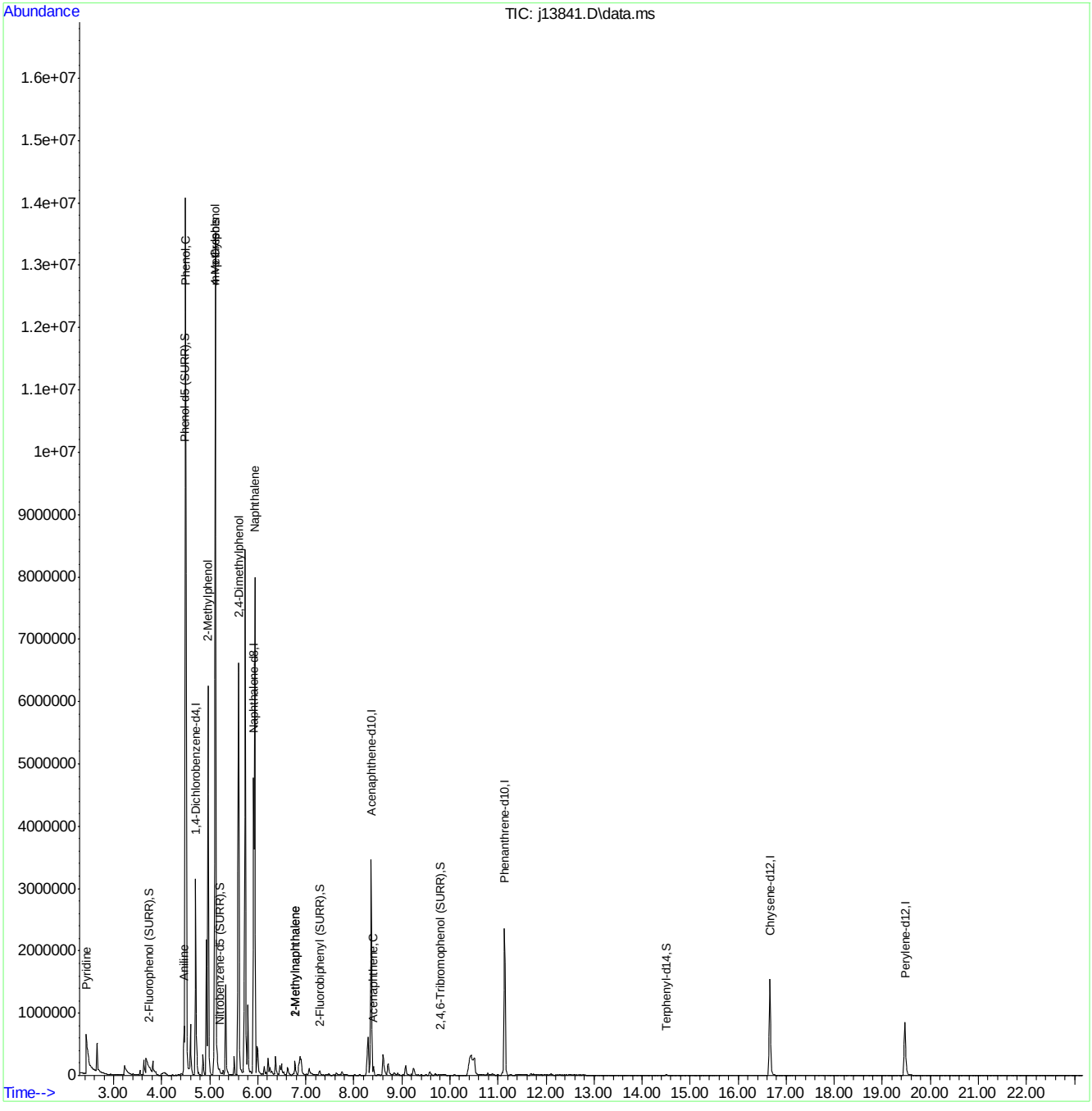
(#) = qualifier out of range (m) = manual integration (+) = signals summed

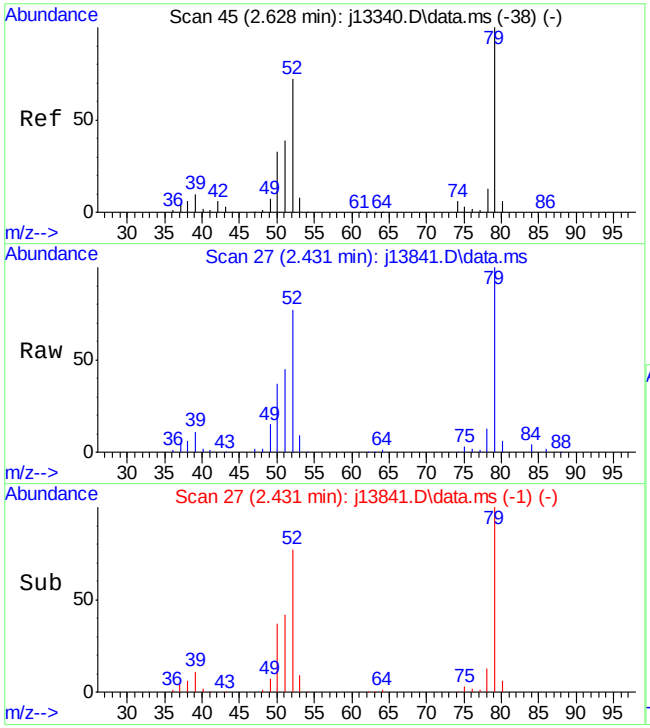
8.1.8
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 11:05:38 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

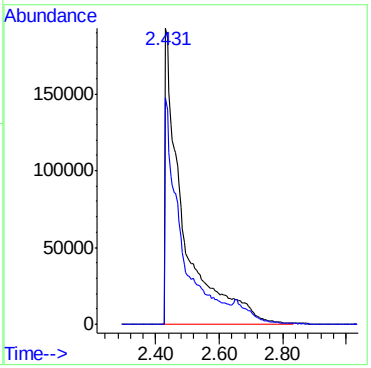


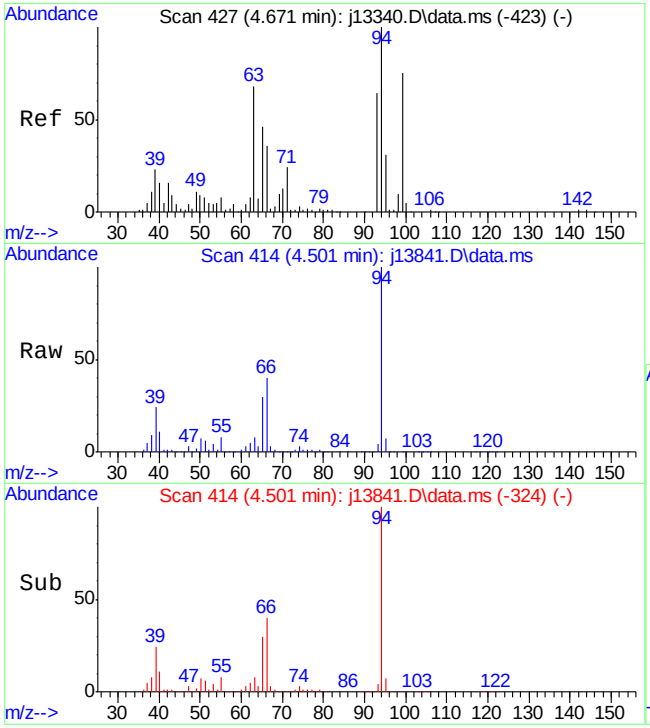


#3
Pyridine
Concen: 44.58 ug/ml
RT: 2.431 min Scan# 27
Delta R.T. -0.001 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion: 79 Resp: 762626

Ion	Ratio	Lower	Upper
79	100		
52	67.4	52.6	92.6

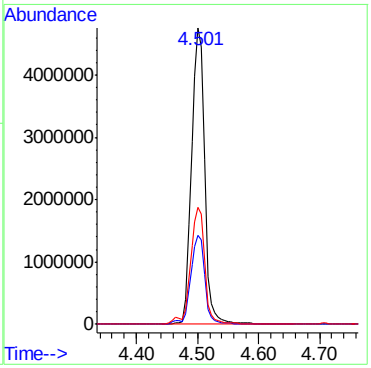


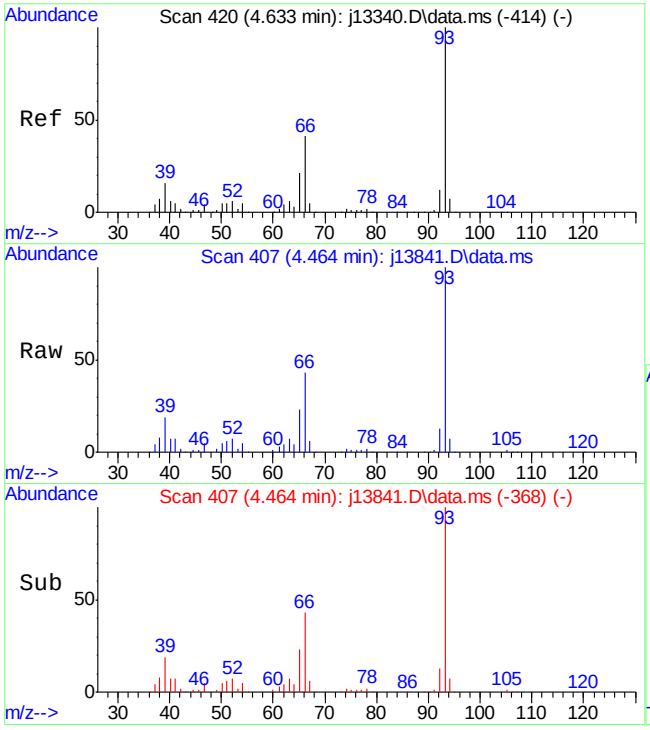


#6
Phenol
Concen: 296.99 ug/ml
RT: 4.501 min Scan# 414
Delta R.T. -0.017 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion: 94 Resp: 7270982

Ion	Ratio	Lower	Upper
94	100		
65	32.2	35.3	75.3#
66	42.7	37.4	77.4

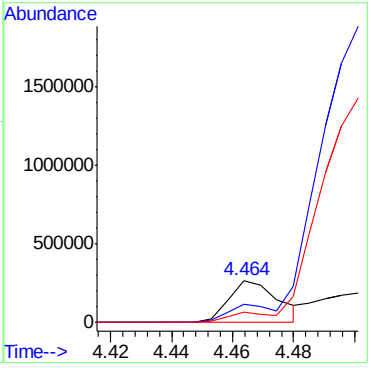


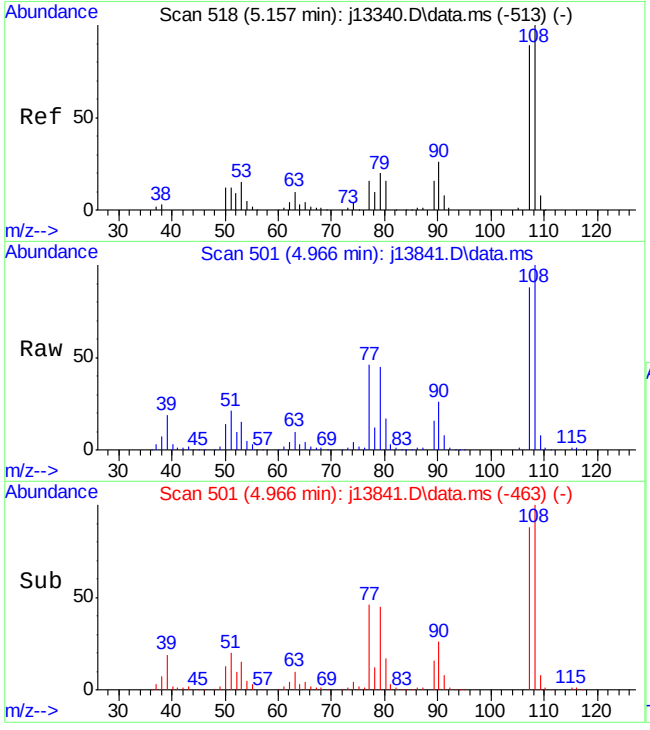


#7
Aniline
Concen: 12.08 ug/ml
RT: 4.464 min Scan# 407
Delta R.T. 0.009 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion: 93 Resp: 294225

Ion	Ratio	Lower	Upper
93	100		
66	0.8	21.2	61.2#
65	0.8	2.0	42.0#

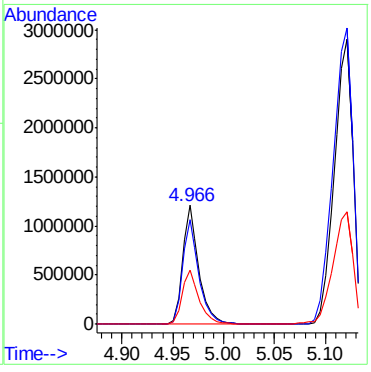


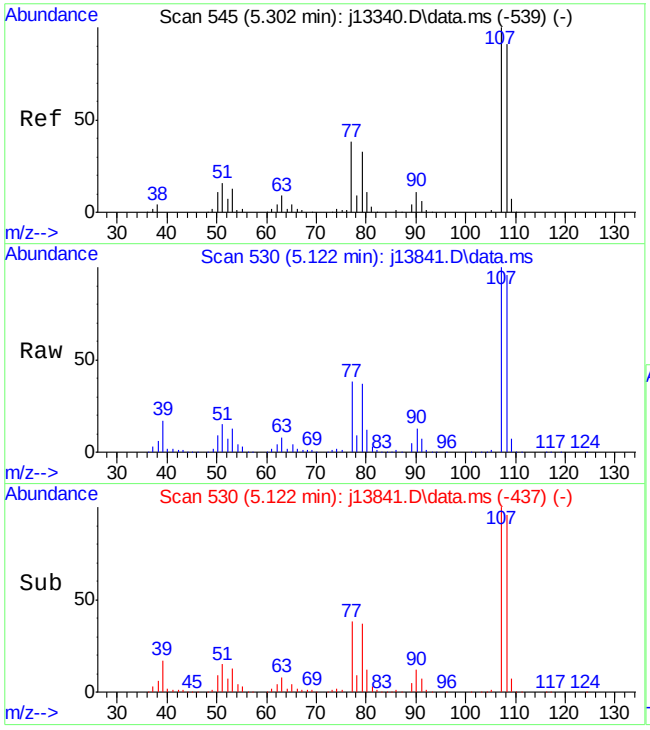


#14
2-Methylphenol
Concen: 78.37 ug/ml
RT: 4.966 min Scan# 501
Delta R.T. 0.005 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:108 Resp: 1344988

Ion	Ratio	Lower	Upper
108	100		
107	88.8	68.3	108.3
77	46.9	30.8	70.8

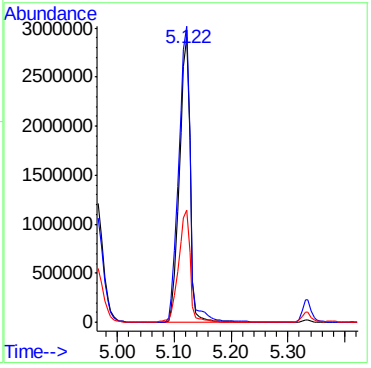


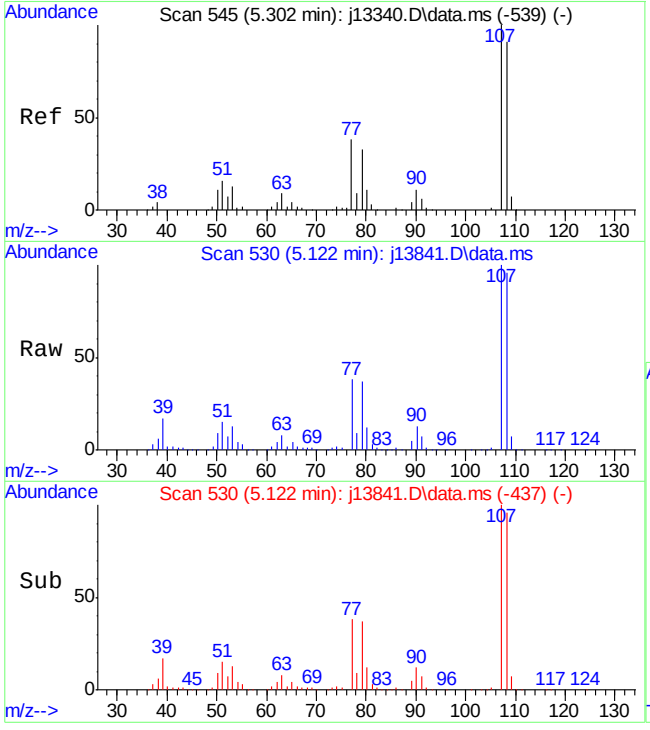


#16
4-Methylphenol
Concen: 210.02 ug/ml
RT: 5.122 min Scan# 530
Delta R.T. -0.000 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:108 Resp: 3813134

Ion	Ratio	Lower	Upper
108	100		
107	113.4	139.5	179.5#
77	43.1	36.8	76.8

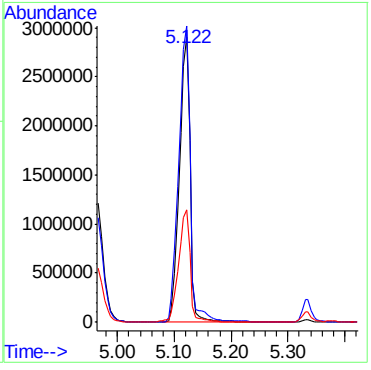




#17
m+p-Cresols
Concen: 210.02 ug/ml
RT: 5.122 min Scan# 530
Delta R.T. -0.000 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

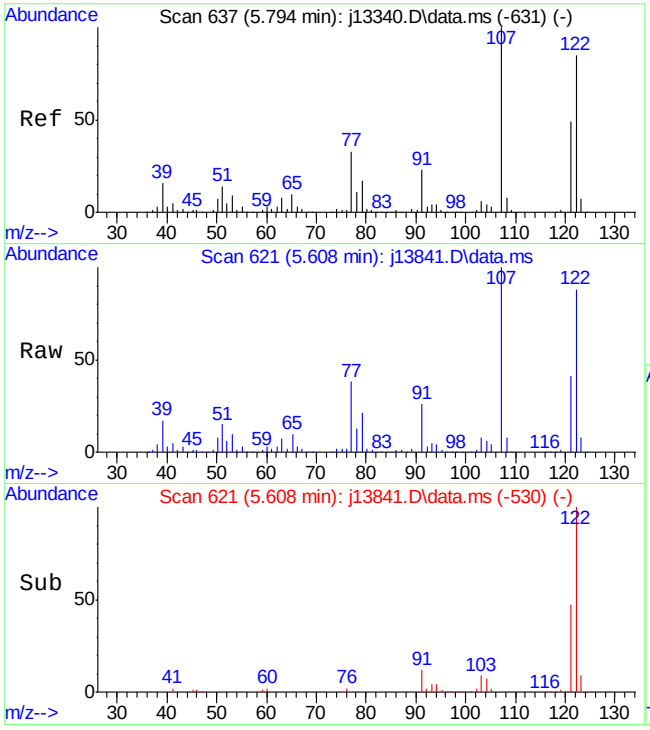
Tgt Ion:108 Resp: 3813134

Ion	Ratio	Lower	Upper
108	100		
107	113.4	139.5	179.5#
77	43.1	36.8	76.8



8.1.8

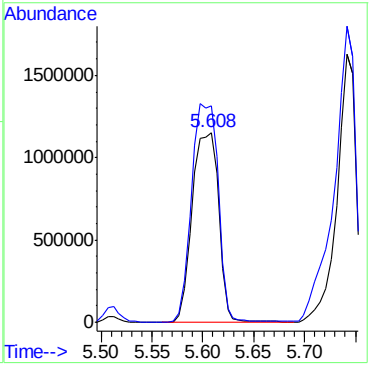
8

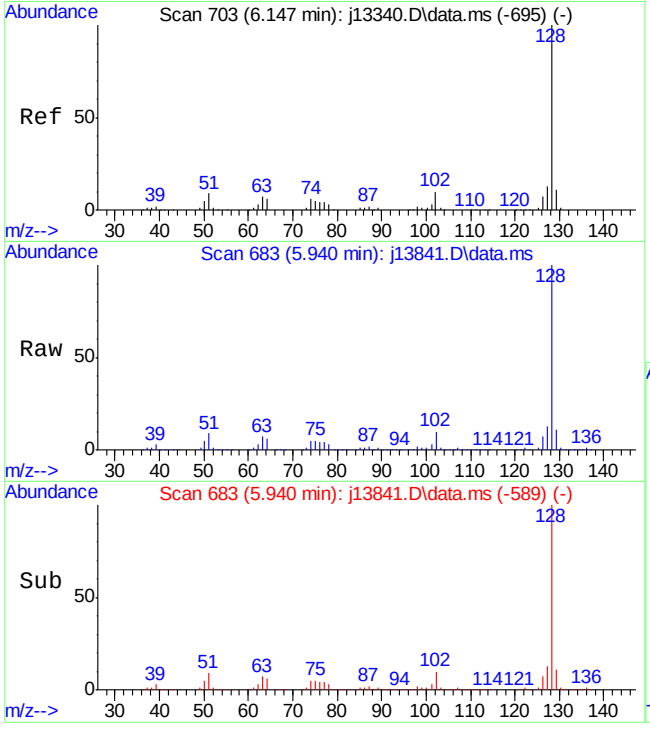


#25
2,4-Dimethylphenol
Concen: 123.56 ug/ml
RT: 5.608 min Scan# 621
Delta R.T. -0.011 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:122 Resp: 2083048

Ion	Ratio	Lower	Upper
122	100		
107	115.7	96.3	136.3

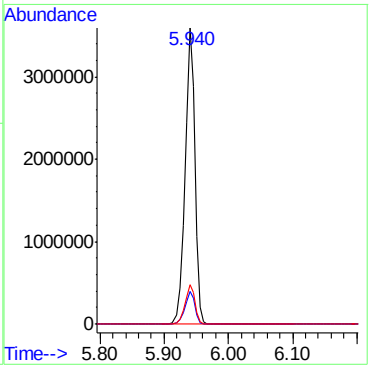


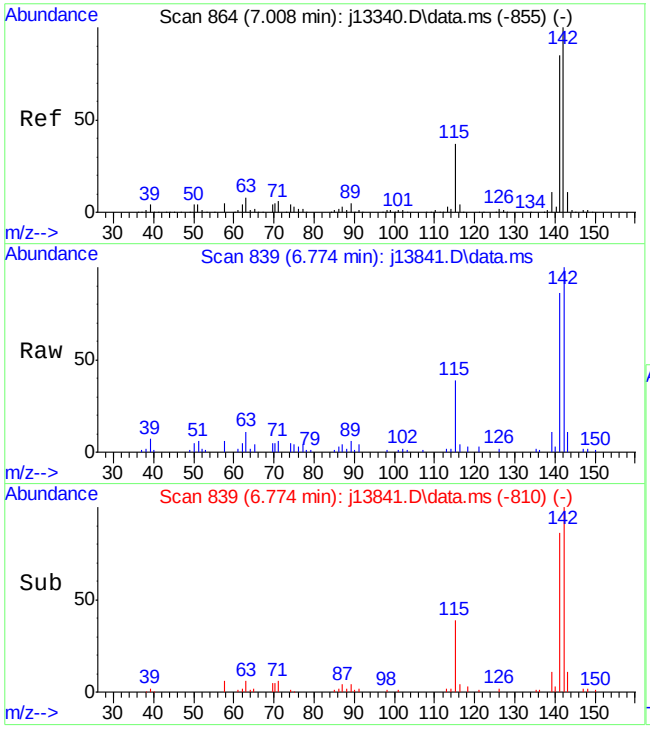


#30
Naphthalene
Concen: 65.86 ug/ml
RT: 5.940 min Scan# 683
Delta R.T. 0.005 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:128 Resp: 3861864

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.4	0.0	33.8

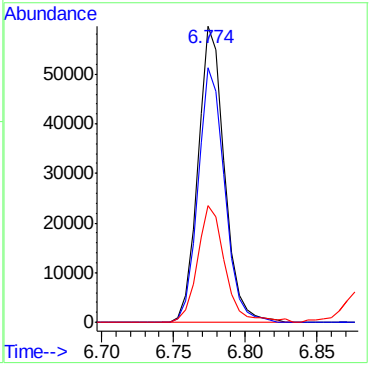


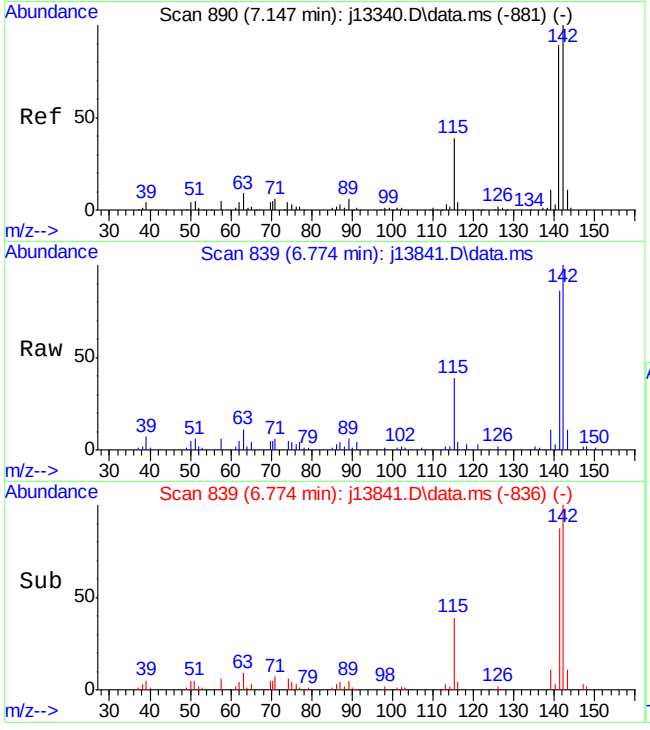


#34
2-Methylnaphthalene
Concen: 2.15 ug/ml
RT: 6.774 min Scan# 839
Delta R.T. -0.043 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:142 Resp: 76964

Ion	Ratio	Lower	Upper
142	100		
141	86.5	66.2	106.2
115	40.9	17.8	57.8

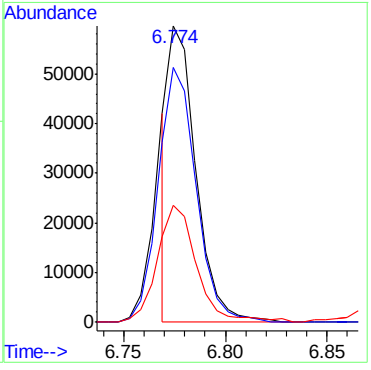




#35
1-Methylnaphthalene
Concen: 1.48 ug/ml
RT: 6.774 min Scan# 839
Delta R.T. -0.182 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:142 Resp: 55417

Ion	Ratio	Lower	Upper
142	100		
141	87.0	69.4	109.4
115	40.5	18.9	58.9



8.1.8

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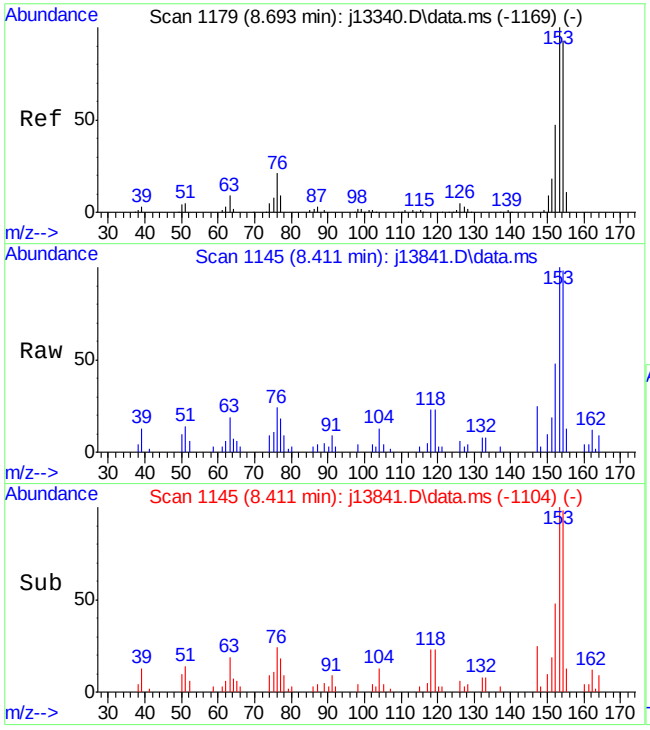
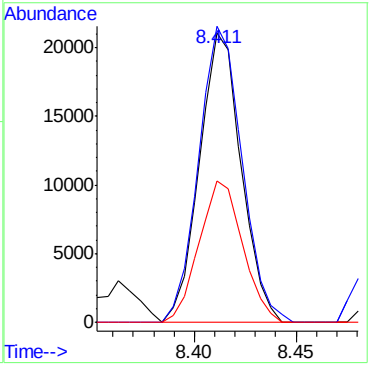


#47
Acenaphthene
Concen: 0.95 ug/ml
RT: 8.411 min Scan# 1145
Delta R.T. -0.282 min
Lab File: j13841.D
Acq: 15 Oct 2009 12:54 pm

Tgt Ion:154 Resp: 29992

Ion	Ratio	Lower	Upper
154	100		
153	105.9	87.9	127.9
152	50.9	31.3	71.3



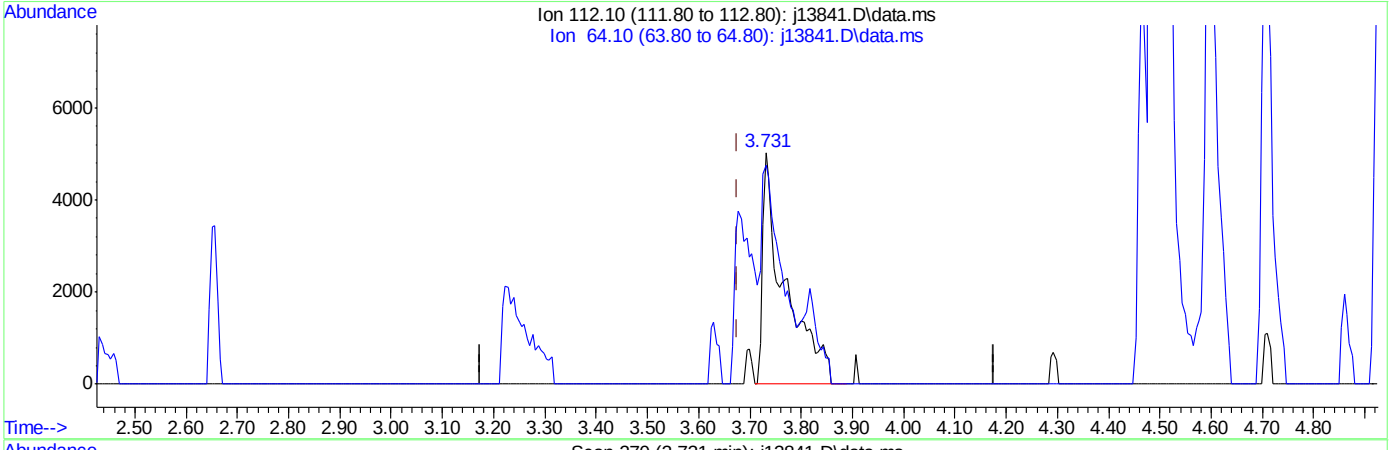
8.1.8

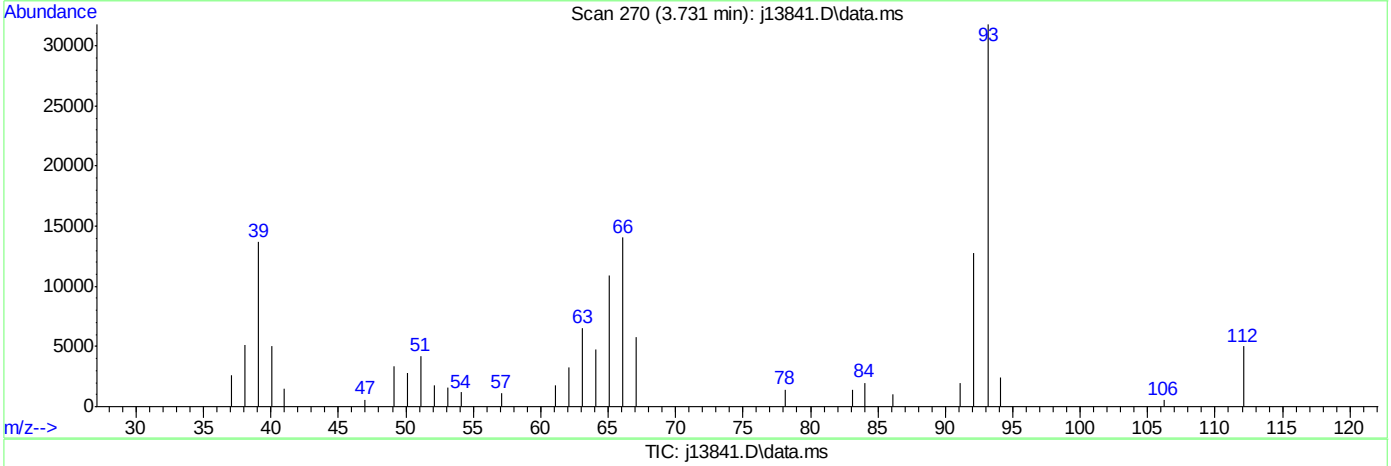
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 11:05:38 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13841.D\data.ms

(4) 2-Fluorophenol (SURR) (S)

3.731min (+0.055) 0.83ug/ml m

response 15069

Ion	Exp%	Act%
112.10	100	100
64.10	66.70	87.71#
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.431	25	27	65	rBV3	628683	2135588	9.59%	1.712%
2	2.656	65	69	73	rBV	435378	426813	1.92%	0.342%
3	3.223	172	175	205	rBV	149224	543617	2.44%	0.436%
4	3.629	247	251	257	rBV	242291	330582	1.48%	0.265%
5	3.677	257	260	282	rVV	258588	996052	4.47%	0.798%
6	3.817	282	286	294	rVB2	189882	237453	1.07%	0.190%
7	4.464	403	407	409	rBV	794557	814313	3.66%	0.653%
8	4.501	409	414	425	rVV	14071486	22269269	100.00%	17.850%
9	4.597	429	432	443	rVB	806612	1017361	4.57%	0.815%
10	4.704	448	452	461	rBV	3148724	3921555	17.61%	3.143%
11	4.860	477	481	489	rBV	329421	363479	1.63%	0.291%
12	4.929	489	494	497	rBV	2171854	2282861	10.25%	1.830%
13	4.966	497	501	517	rVB	6247952	7271133	32.65%	5.828%
14	5.122	518	530	534	rBV	13511529	19112094	85.82%	15.320%
15	5.330	564	569	584	rVB	1447753	1743891	7.83%	1.398%
16	5.512	599	603	611	rVB	305067	337428	1.52%	0.270%
17	5.608	613	621	628	rBV2	6611782	11998173	53.88%	9.617%
18	5.742	636	646	653	rBV	8373297	11606169	52.12%	9.303%
19	5.796	653	656	663	rVB	1081786	1202232	5.40%	0.964%
20	5.913	672	678	680	rBV2	4755459	6201630	27.85%	4.971%
21	5.940	680	683	688	rVV	7958580	8584127	38.55%	6.881%
22	5.993	688	693	699	rVV2	429382	719790	3.23%	0.577%
23	6.218	730	735	739	rBV	258685	340780	1.53%	0.273%
24	6.373	759	764	772	rVB	292051	403770	1.81%	0.324%
25	6.625	805	811	825	rVB2	130473	226923	1.02%	0.182%
26	6.774	835	839	850	rVB	221518	335489	1.51%	0.269%
27	8.299	1113	1124	1129	rBV	620041	1394736	6.26%	1.118%
28	8.363	1129	1136	1142	rVV	3464924	5193900	23.32%	4.163%
29	8.609	1172	1182	1196	rBV	331773	707947	3.18%	0.567%
30	8.711	1196	1201	1219	rVB2	186046	387195	1.74%	0.310%
31	9.080	1264	1270	1277	rBV	158097	283387	1.27%	0.227%
32	9.240	1295	1300	1313	rVB2	114591	270220	1.21%	0.217%
33	10.433	1505	1523	1530	rBV3	330288	1546627	6.95%	1.240%
34	11.139	1647	1655	1672	rVB2	2361360	4315887	19.38%	3.459%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On    : 15 Oct 2009  12:54 pm
Operator  : sheilac
Sample    : t39646-3,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 6   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 6000 Area counts
Start Thrs: 0.2                         Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :

35  16.659  2678 2687 2719 rBV  1548617   3205188  14.39%   2.569%

36  19.472  3201 3213 3235 rBV   857145   2027559   9.10%   1.625%

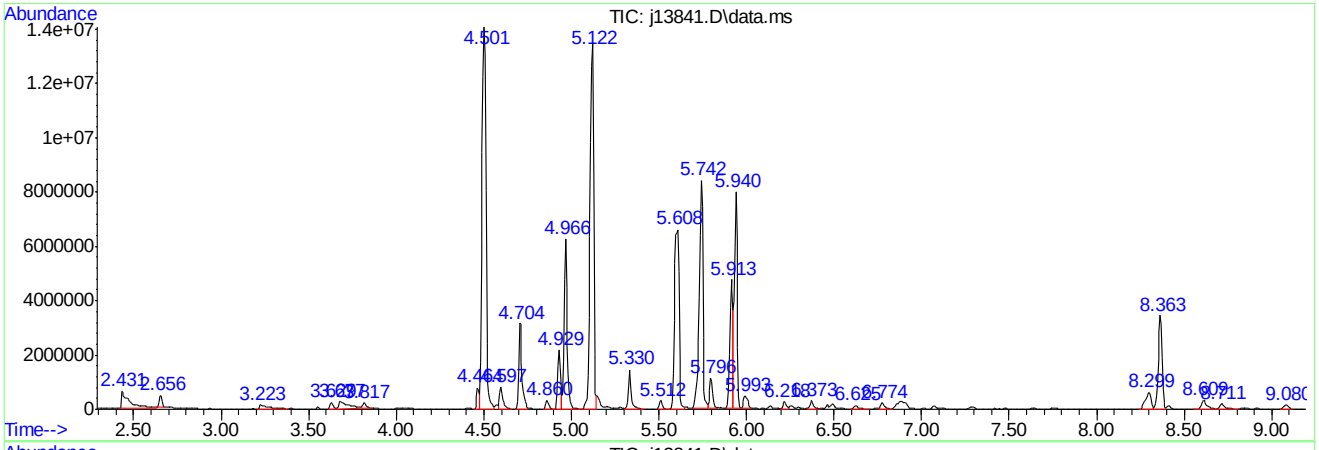
                        Sum of corrected areas:   124755218
```

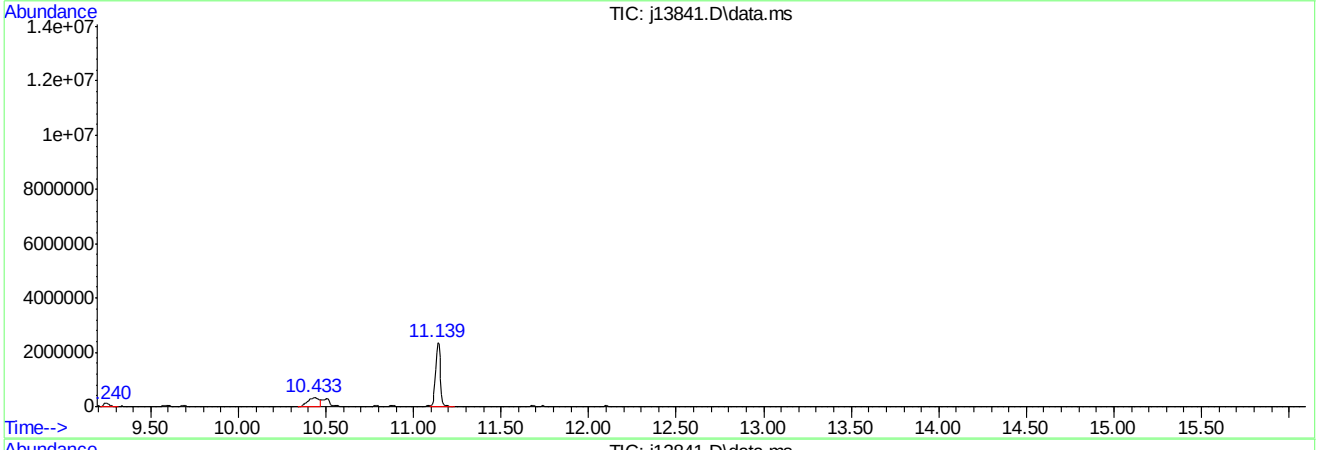
LSC Report - Integrated Chromatogram

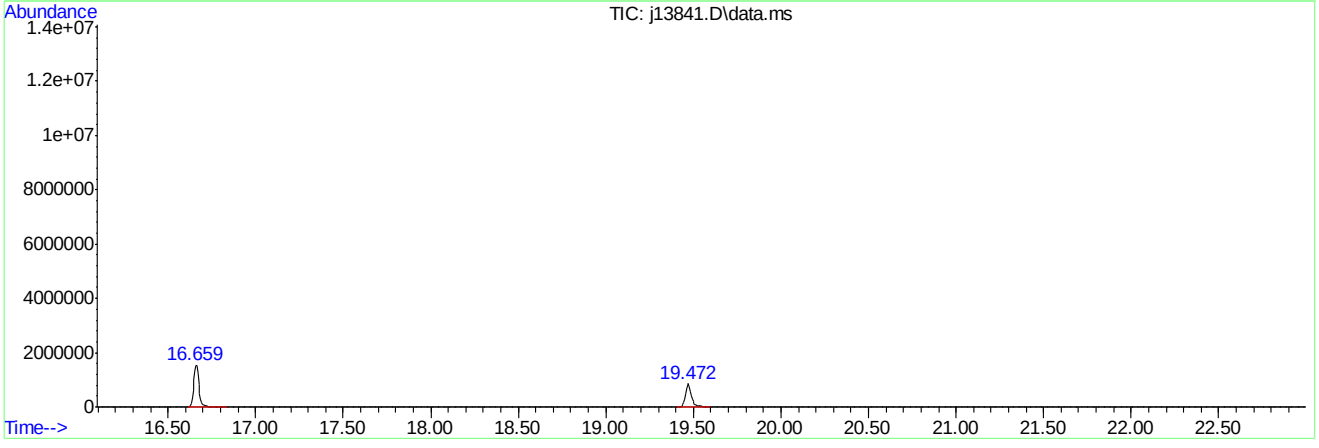
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

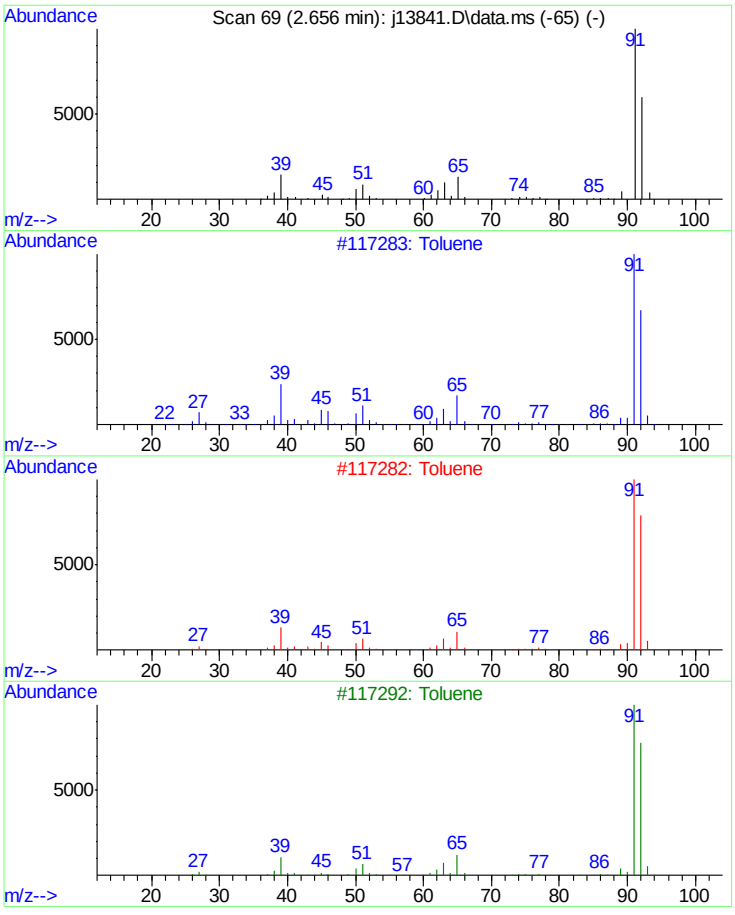
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

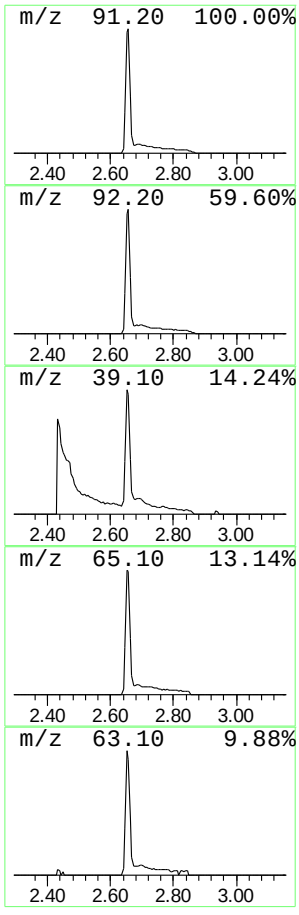
****

Peak Number 1 Toluene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.656	4.35 ug/ml	426813	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	91
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	90
5	Toluene	92	C7H8	000108-88-3	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

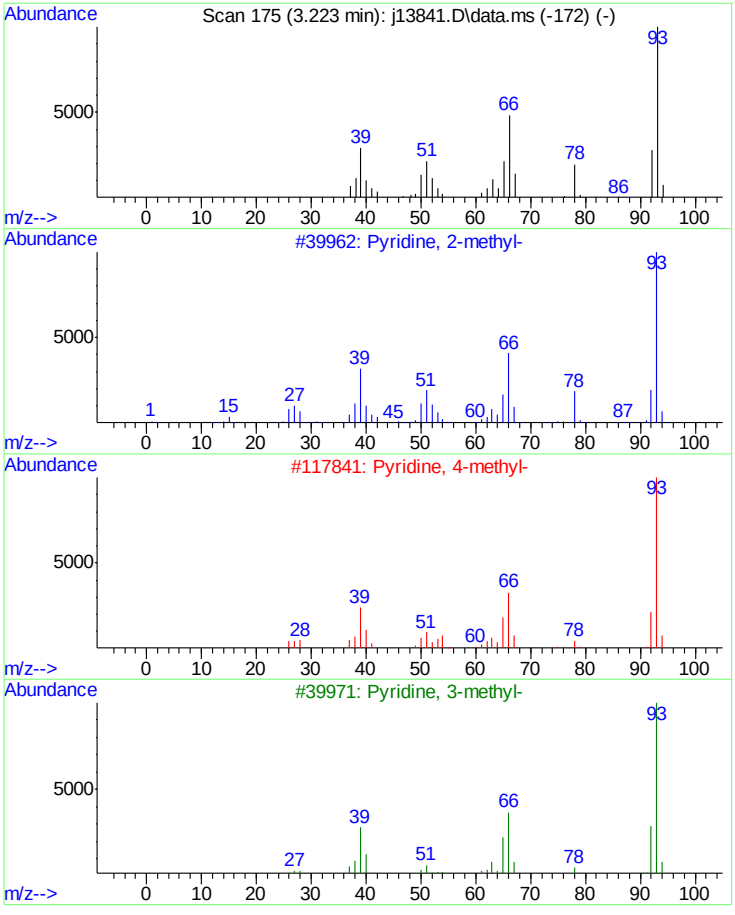
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

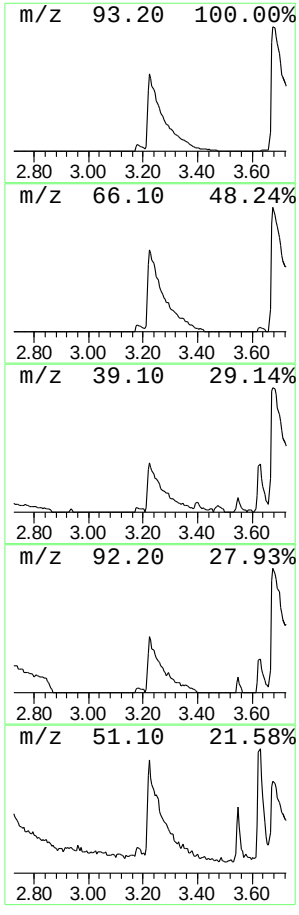
****

Peak Number 2 Pyridine, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.223	5.54 ug/ml	543617	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	96
2	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	93
3	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	93
4	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	91
5	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

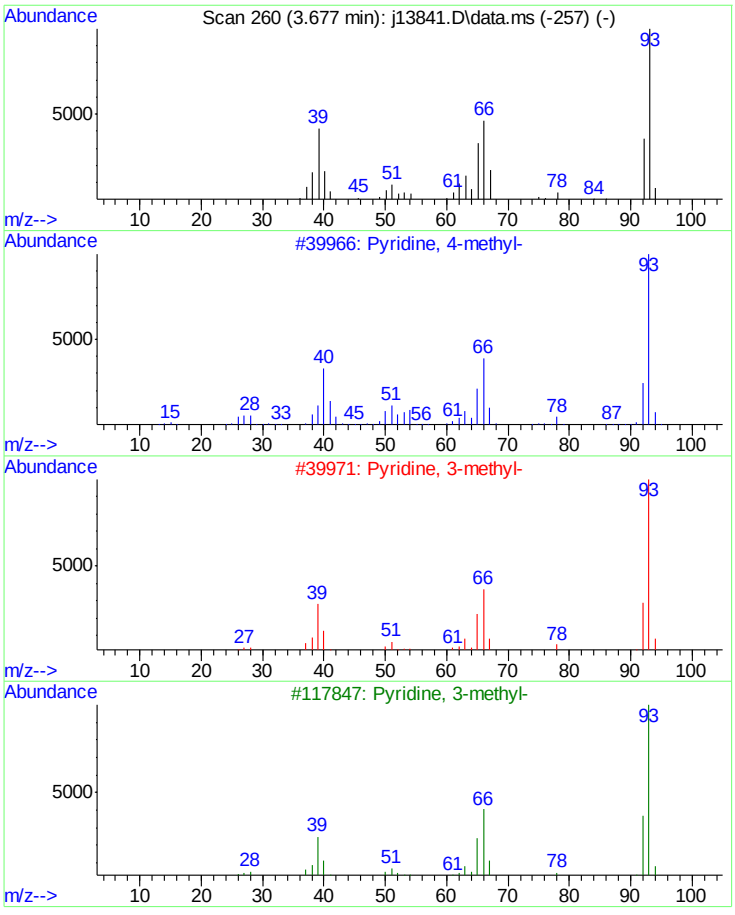
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

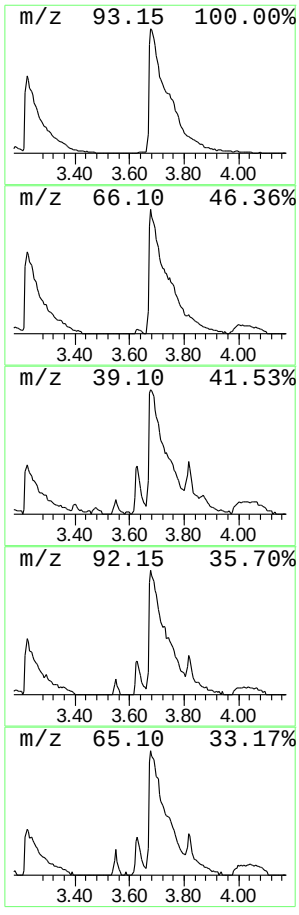
****

Peak Number 3 Pyridine, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.677	10.16 ug/ml	996052	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	90
2	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	81
3	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	81
4	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	72
5	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	62





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

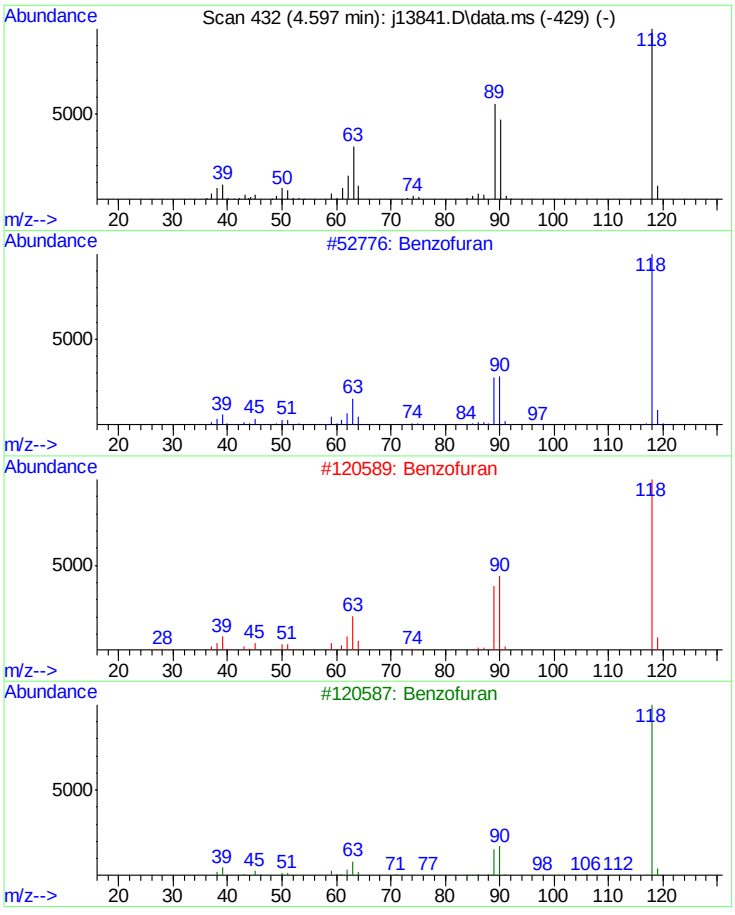
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

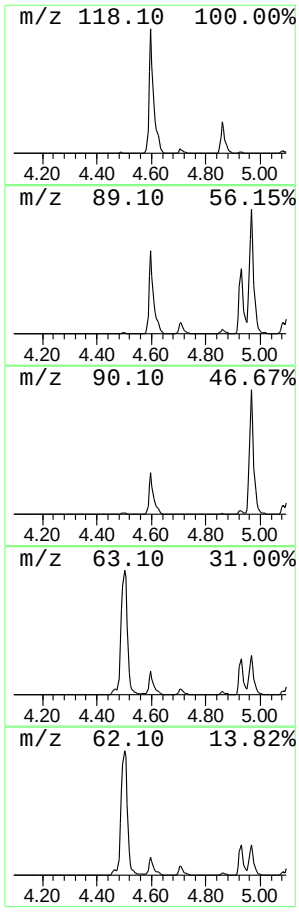
****

Peak Number 4 Benzofuran Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.597	10.38 ug/ml	1017360	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	94
2	Benzofuran	118	C8H6O	000271-89-6	94
3	Benzofuran	118	C8H6O	000271-89-6	87
4	Benzofuran	118	C8H6O	000271-89-6	87
5	3-Hydroxyphenylacetylene	118	C8H6O	010401-11-3	81





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

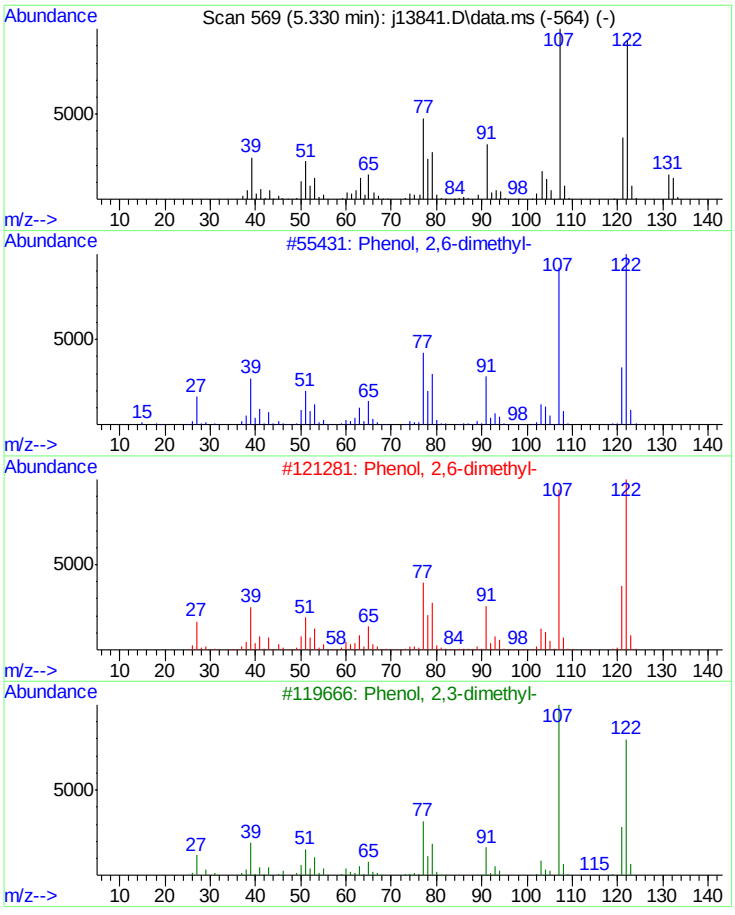
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

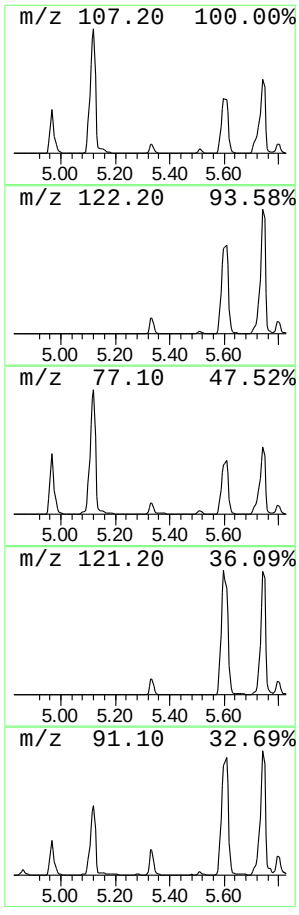
****

Peak Number 5 Phenol, 2,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.330	11.25 ug/ml	1743890	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	98
2	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	94
3	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	90
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	81





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

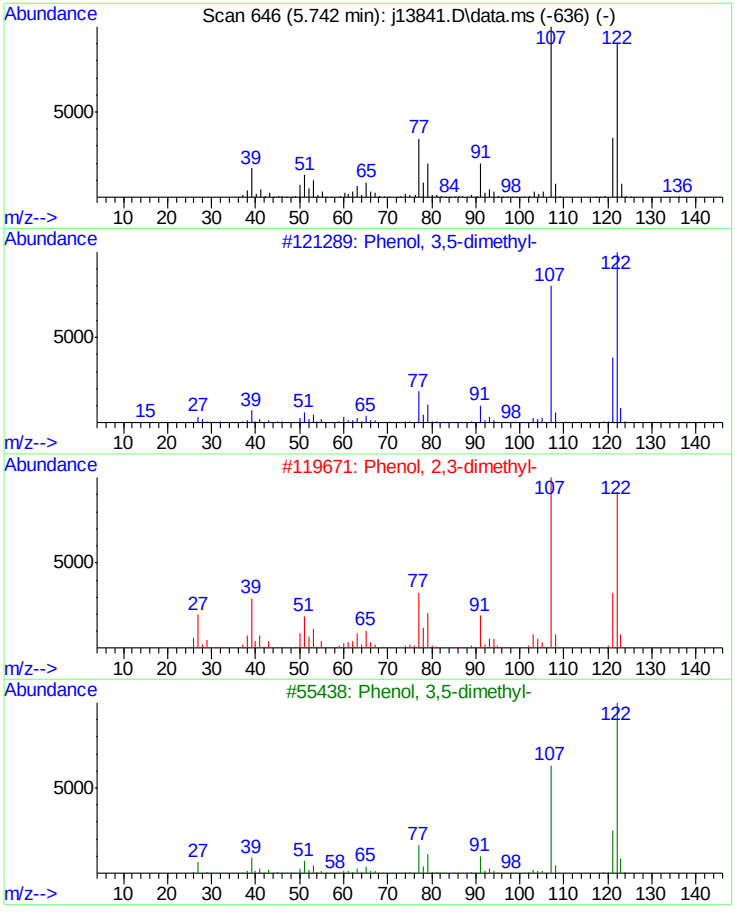
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

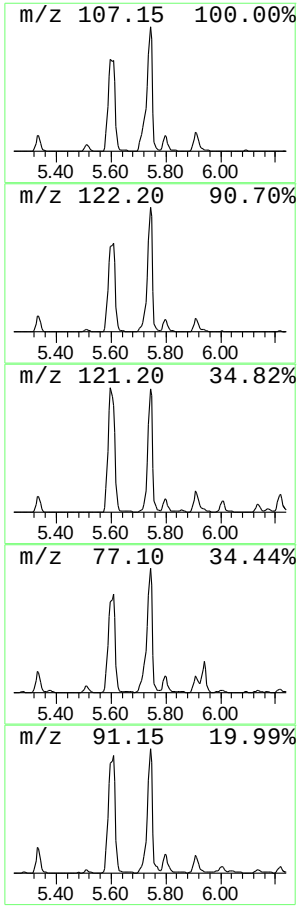
****

Peak Number 6 Phenol, 3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.742	74.86 ug/ml	11606200	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
2	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	93
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	93
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

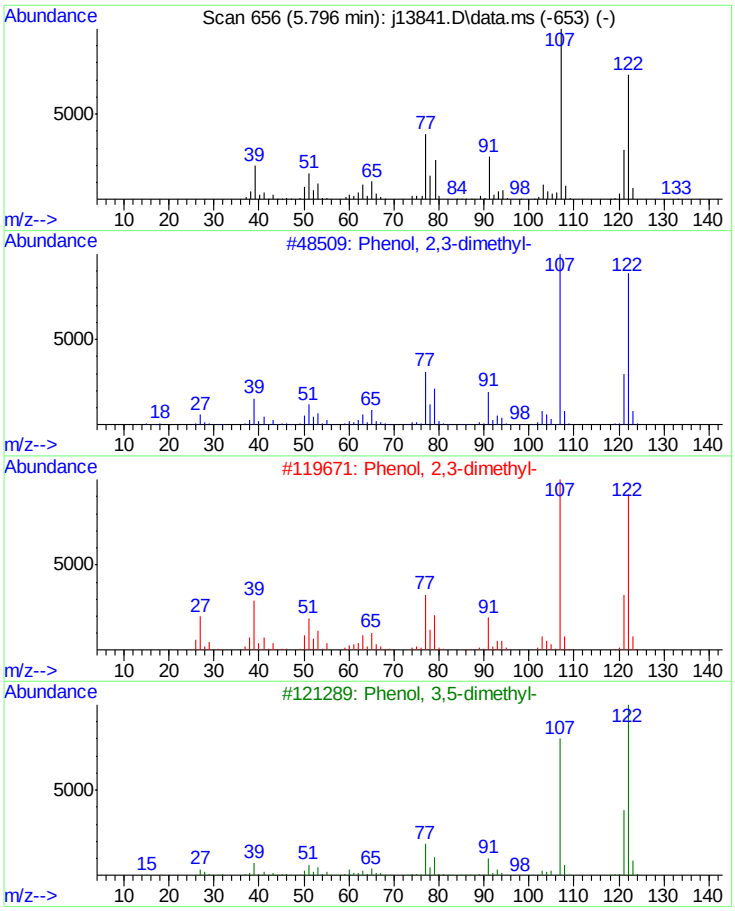
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

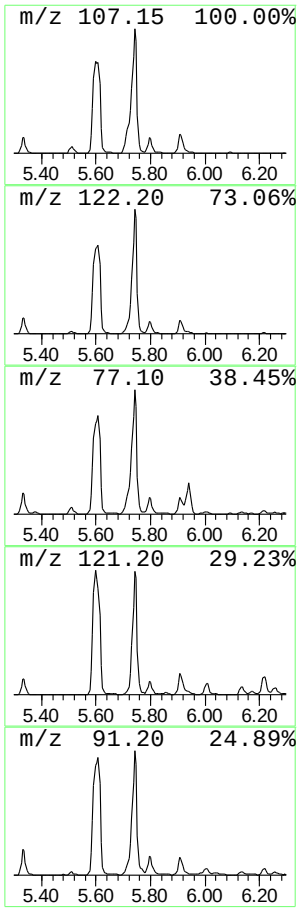
****

Peak Number 7 Phenol, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.796	7.75 ug/ml	1202230	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	97
2	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	96
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	95
4	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	95
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	94





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

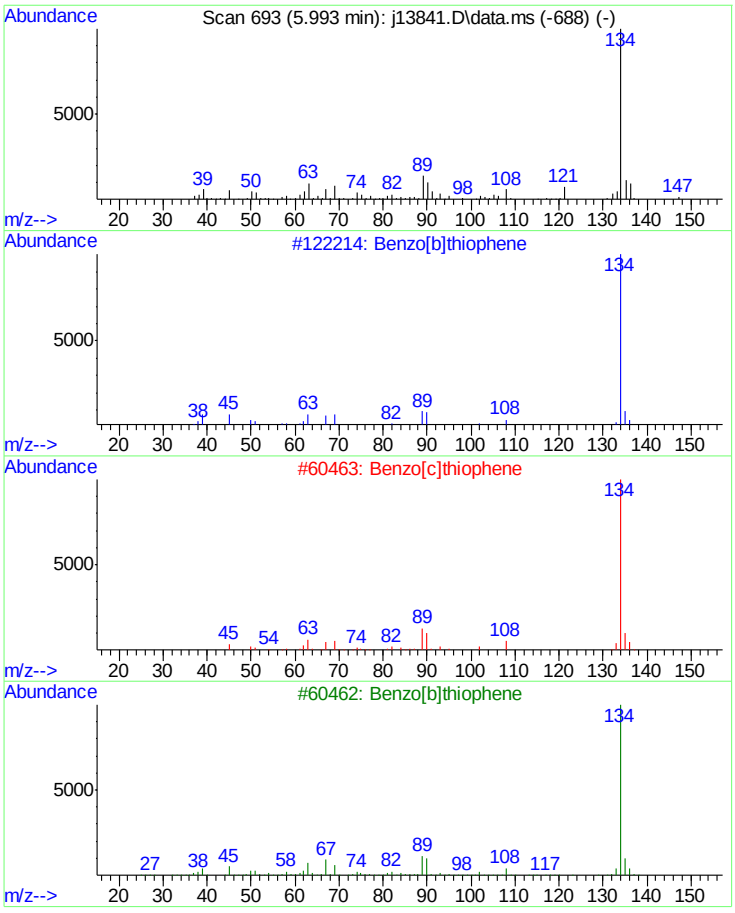
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

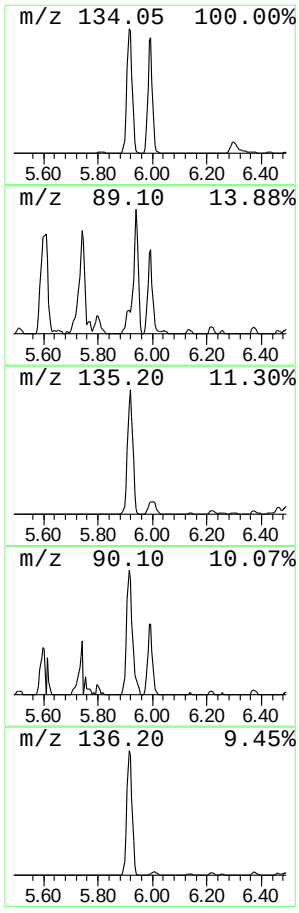
****

Peak Number 8 Benzo[b]thiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.993	4.64 ug/ml	719790	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	93
2	Benzo[c]thiophene	134	C8H6S	000270-82-6	93
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	93
4	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	90
5	Benzo[b]thiophene	134	C8H6S	000095-15-8	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

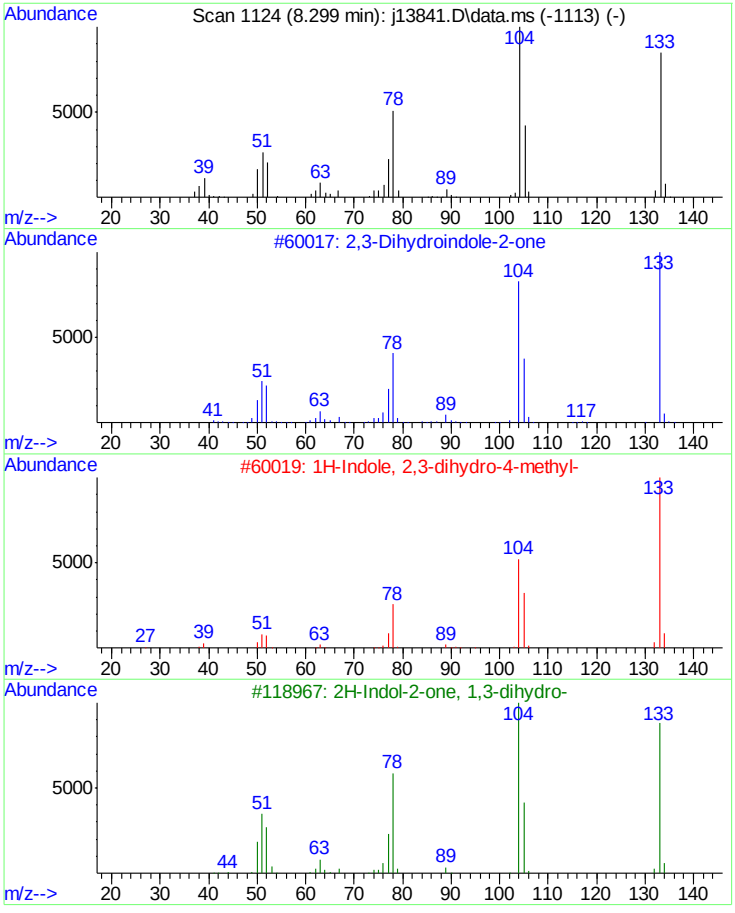
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

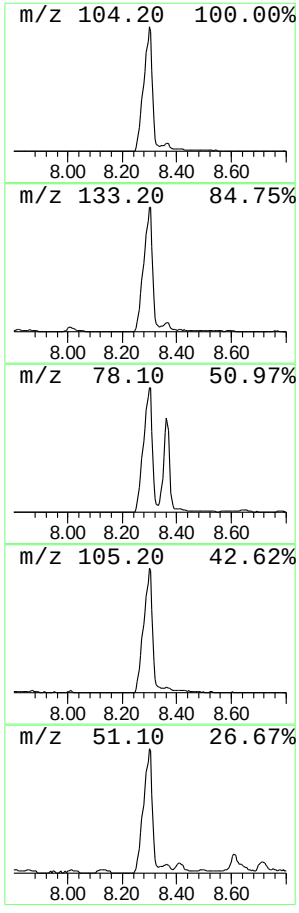
****

Peak Number 9 2,3-Dihydroindole-2-one Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.299	10.74 ug/ml	1394740	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydroindole-2-one	133	C8H7NO	1000129-53-5	98
2	1H-Indole, 2,3-dihydro-4-methyl-	133	C9H11N	062108-16-1	97
3	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	96
4	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	94
5	1H-Benzotriazole, 5-methyl-	133	C7H7N3	000136-85-6	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

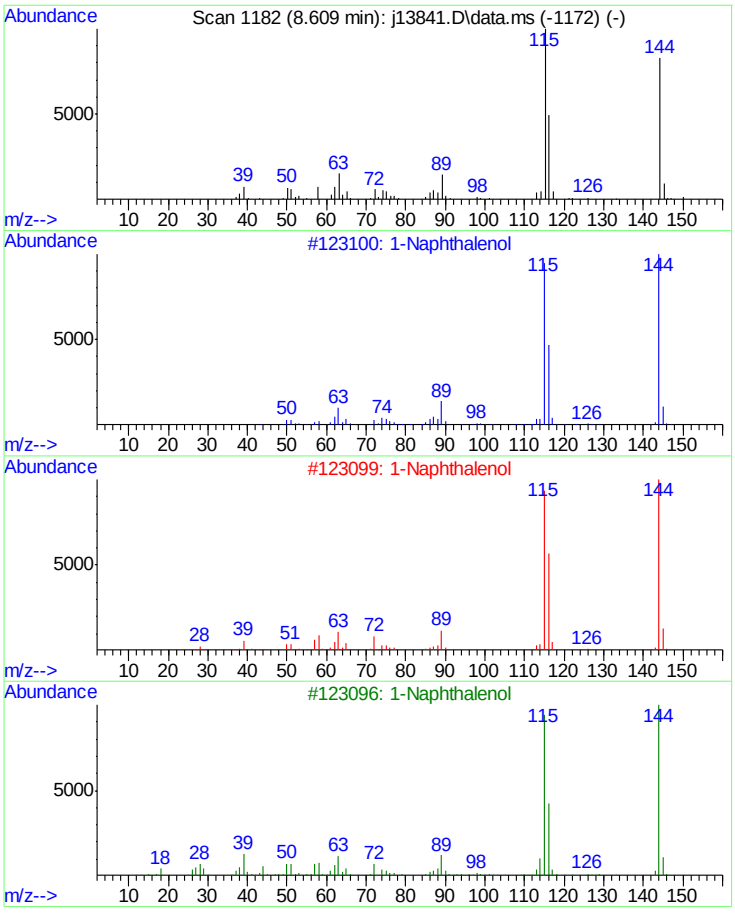
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

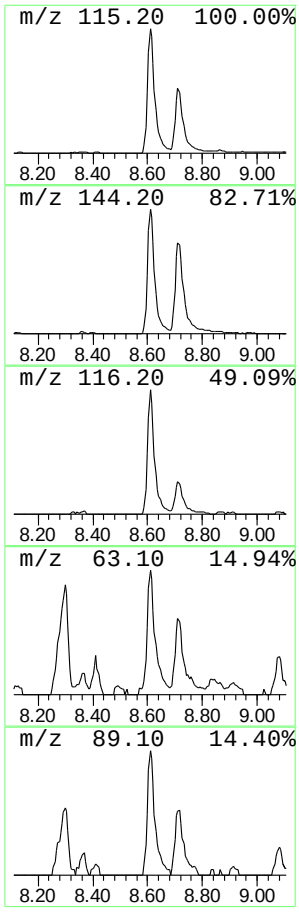
****

Peak Number 10 1-Naphthalenol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.609	5.45 ug/ml	707947	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	93
3	1-Naphthalenol	144	C10H8O	000090-15-3	91
4	1-Naphthalenol	144	C10H8O	000090-15-3	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

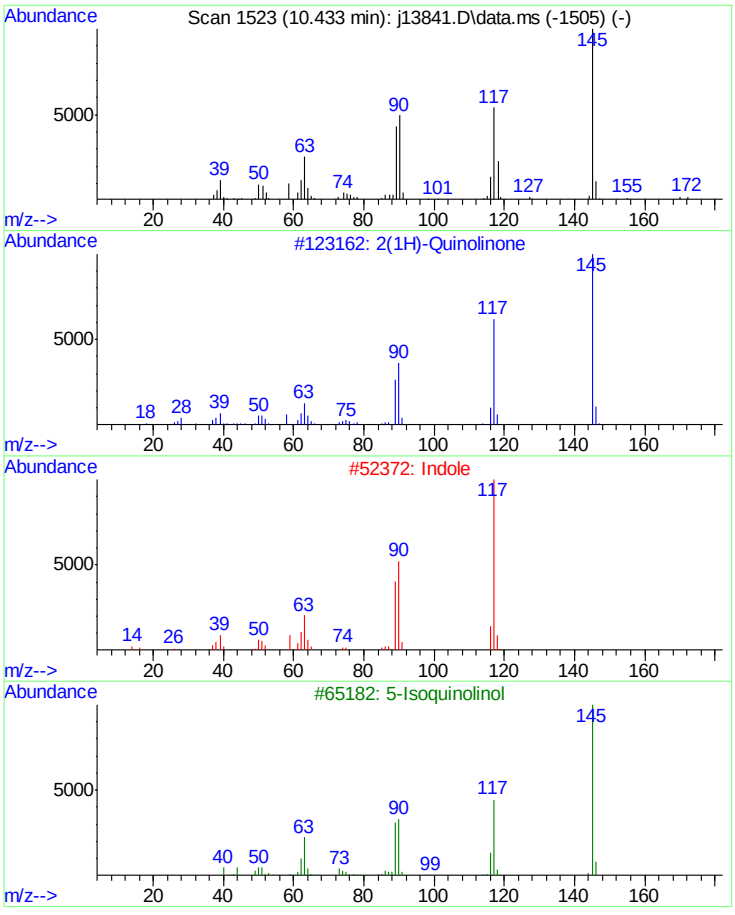
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

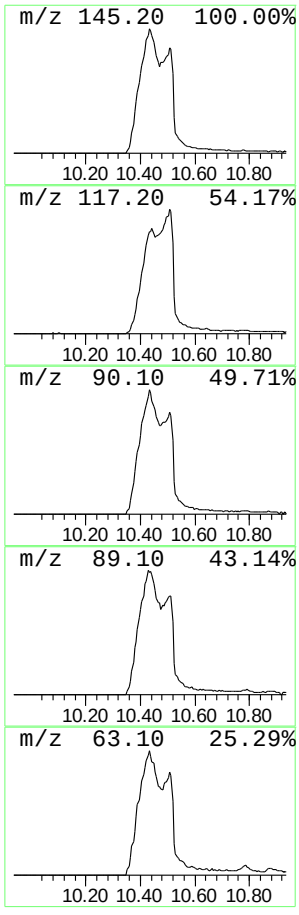
****

Peak Number 11 2(1H)-Quinolinone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.433	14.33 ug/ml	1546630	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	94
2	Indole	117	C8H7N	000120-72-9	93
3	5-Isoquinolinol	145	C9H7NO	002439-04-5	93
4	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	91
5	5-Quinolinol	145	C9H7NO	000578-67-6	90





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13841.D
Acq On : 15 Oct 2009 12:54 pm
Operator : sheilac
Sample : t39646-3,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Toluene	2.656	4.3	ug/ml	426813	1	4.710	3921560	40.0
Pyridine, 2-met...	3.223	5.5	ug/ml	543617	1	4.710	3921560	40.0
Pyridine, 4-met...	3.677	10.2	ug/ml	996052	1	4.710	3921560	40.0
Benzofuran	4.597	10.4	ug/ml	1017360	1	4.710	3921560	40.0
Phenol, 2,6-dim...	5.330	11.3	ug/ml	1743890	2	5.913	6201630	40.0
Phenol, 3,5-dim...	5.742	74.9	ug/ml	11606200	2	5.913	6201630	40.0
Phenol, 2,3-dim...	5.796	7.8	ug/ml	1202230	2	5.913	6201630	40.0
Benzo[b]thiophene	5.993	4.6	ug/ml	719790	2	5.913	6201630	40.0
2,3-Dihydroindo...	8.299	10.7	ug/ml	1394740	3	8.363	5193900	40.0
1-Naphthalenol	8.609	5.5	ug/ml	707947	3	8.363	5193900	40.0
2(1H)-Quinolinone	10.433	14.3	ug/ml	1546630	4	11.139	4315890	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13842.D
Acq On : 15 Oct 2009 1:23 pm
Operator : sheilac
Sample : t39646-3,400x
Misc : op13250,Ej635,1000,,,1,400,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 16 11:12:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

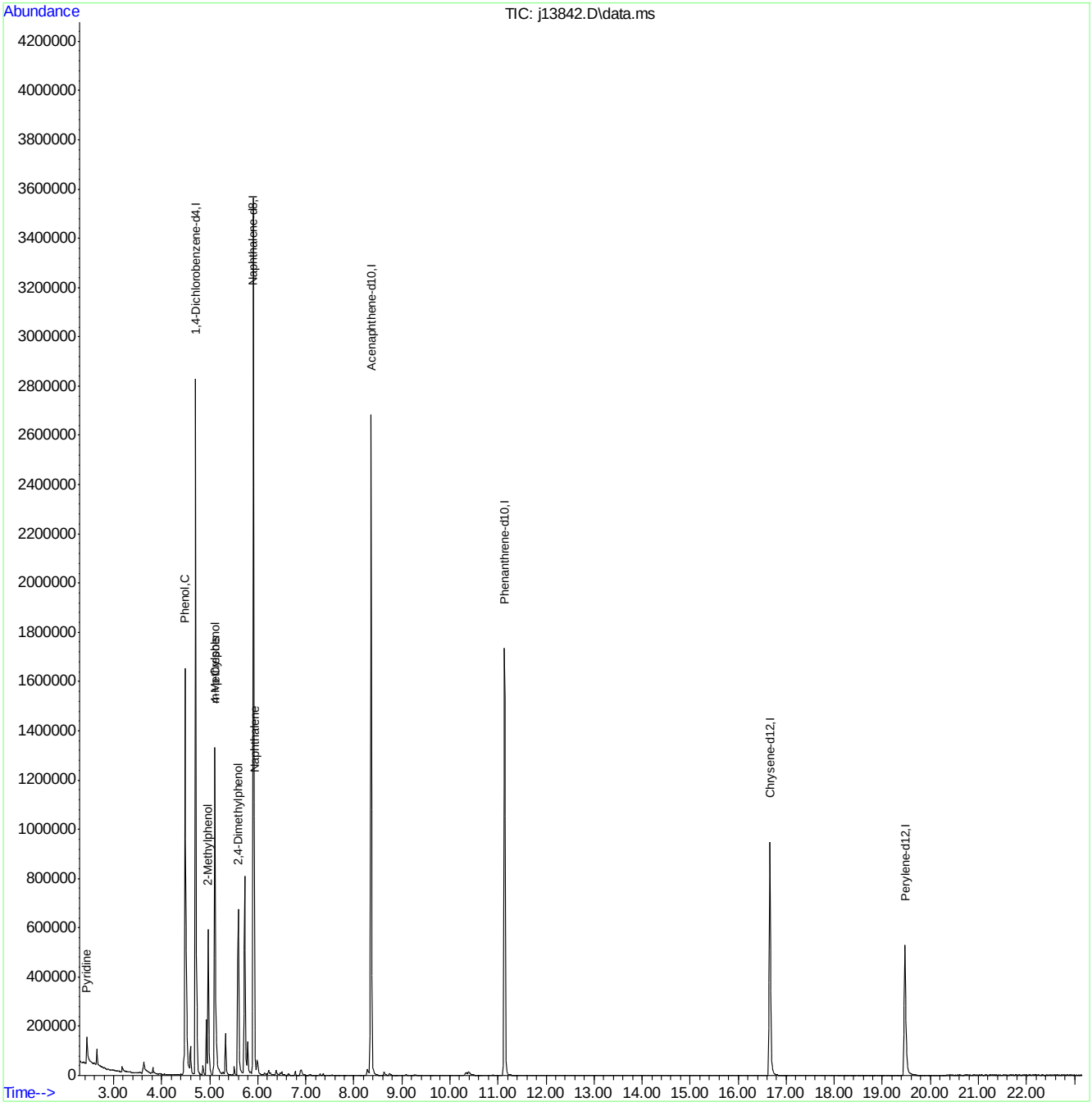
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	480896	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1700995	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	883883	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1095731	40.00	ug/ml	-0.06
71) Chrysene-d12	16.659	240	747262	40.00	ug/ml	-0.07
80) Perylene-d12	19.472	264	507872	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0d	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
3) Pyridine	2.442	79	64861	4.55	ug/ml	84
6) Phenol	4.485	94	791334	38.77	ug/ml#	79
14) 2-Methylphenol	4.966	108	153294	10.71	ug/ml	99
16) 4-Methylphenol	5.106	108	380858	25.16	ug/ml#	72
17) m+p-Cresols	5.106	108	380858	25.16	ug/ml#	72
25) 2,4-Dimethylphenol	5.592	122	219469	16.48	ug/ml	100
30) Naphthalene	5.929	128	446016	9.63	ug/ml	99

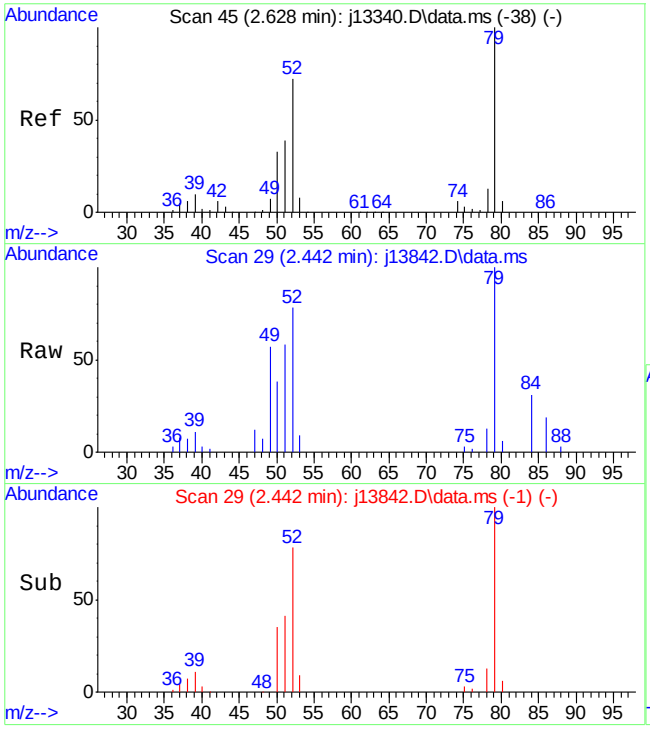
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13842.D
Acq On : 15 Oct 2009 1:23 pm
Operator : sheilac
Sample : t39646-3,400x
Misc : op13250,Ej635,1000,,,1,400,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 16 11:12:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

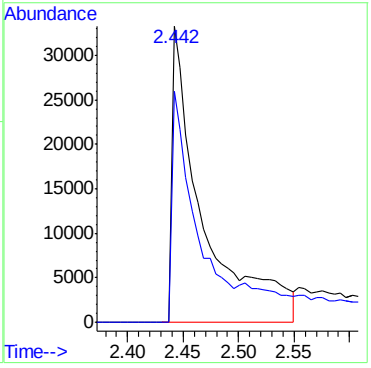


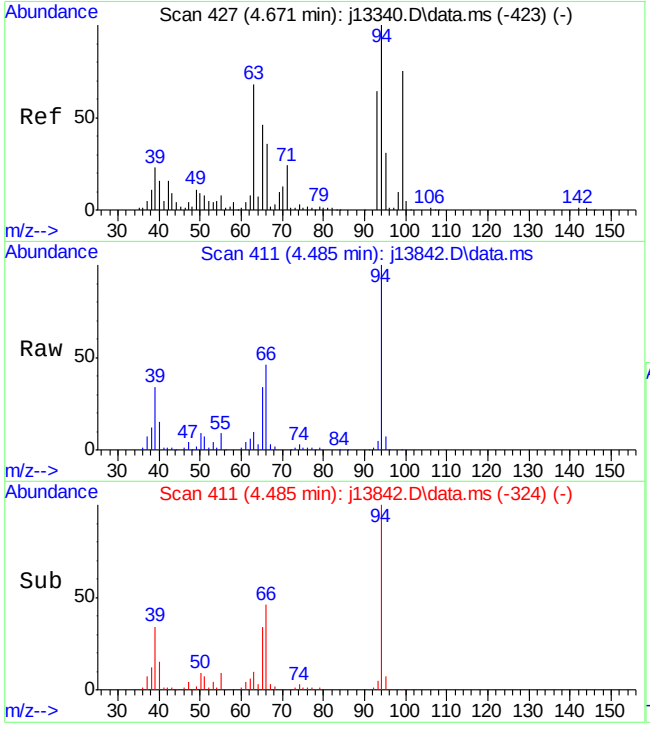


#3
Pyridine
Concen: 4.55 ug/ml
RT: 2.442 min Scan# 29
Delta R.T. 0.010 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion: 79 Resp: 64861

Ion	Ratio	Lower	Upper
79	100		
52	59.0	52.6	92.6

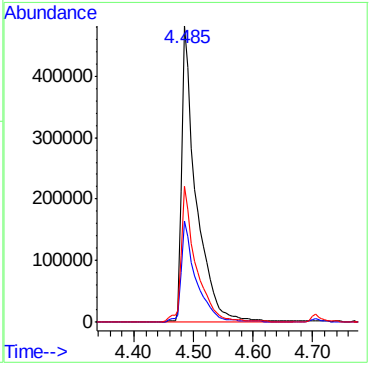


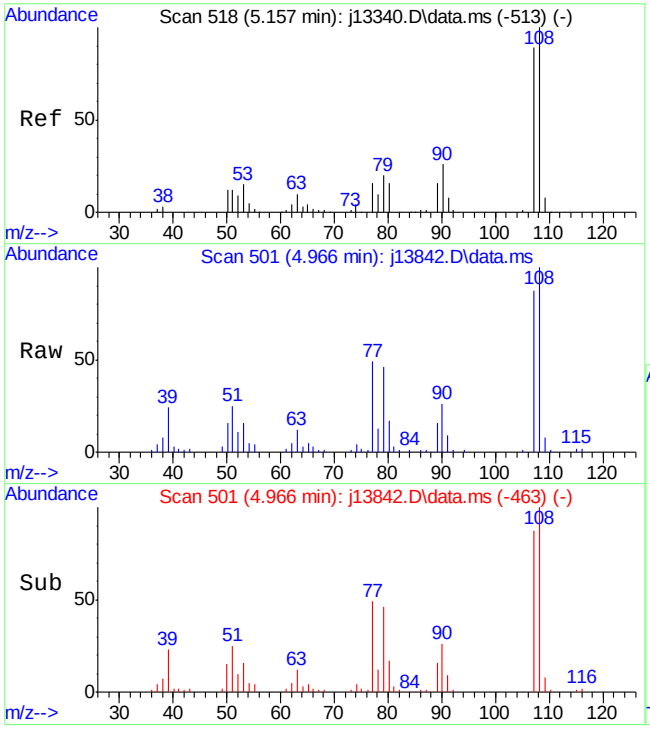


#6
Phenol
Concen: 38.77 ug/ml
RT: 4.485 min Scan# 411
Delta R.T. -0.033 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion: 94 Resp: 791334

Ion	Ratio	Lower	Upper
94	100		
65	35.2	35.3	75.3#
66	47.1	37.4	77.4

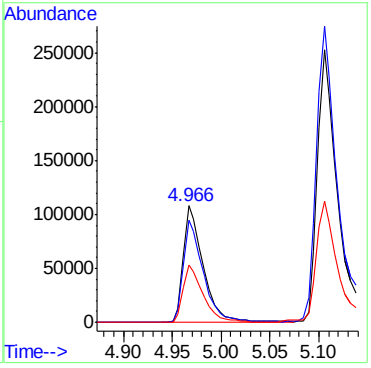


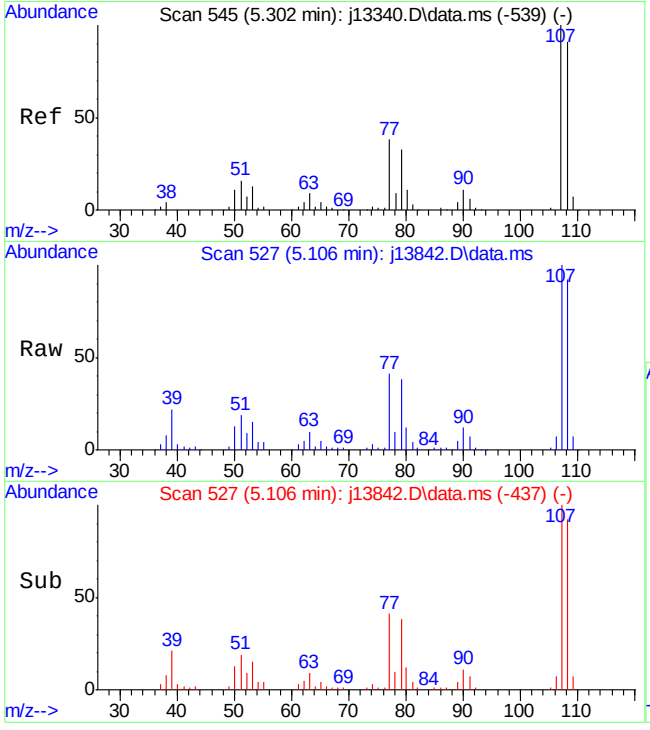


#14
2-Methylphenol
Concen: 10.71 ug/ml
RT: 4.966 min Scan# 501
Delta R.T. 0.005 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion:108 Resp: 153294

Ion	Ratio	Lower	Upper
108	100		
107	88.4	68.3	108.3
77	49.8	30.8	70.8

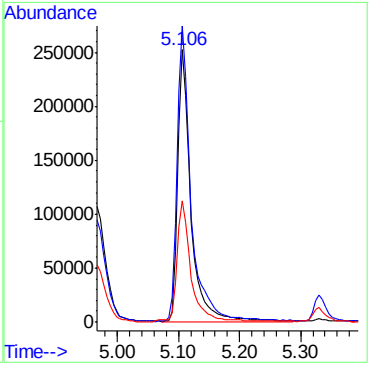


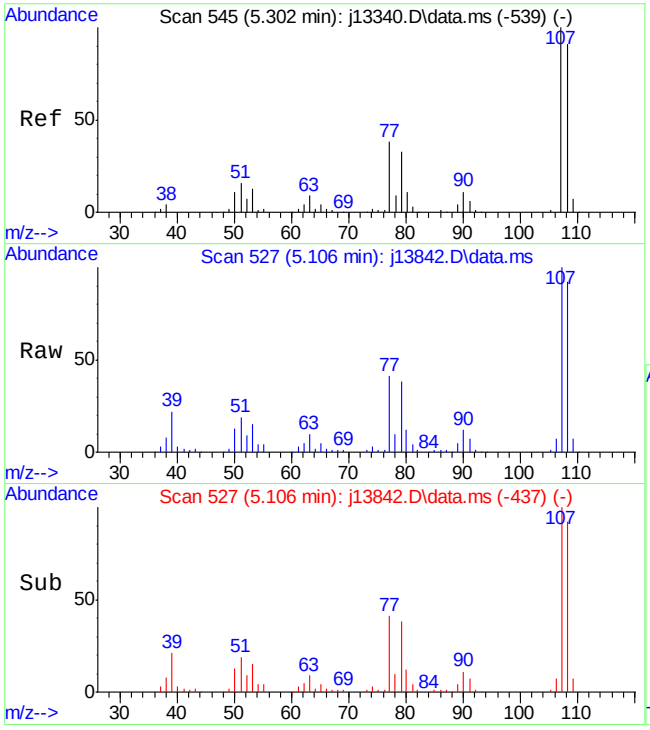


#16
4-Methylphenol
Concen: 25.16 ug/ml
RT: 5.106 min Scan# 527
Delta R.T. -0.016 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion:108 Resp: 380858

Ion	Ratio	Lower	Upper
108	100		
107	115.5	139.5	179.5#
77	48.0	36.8	76.8

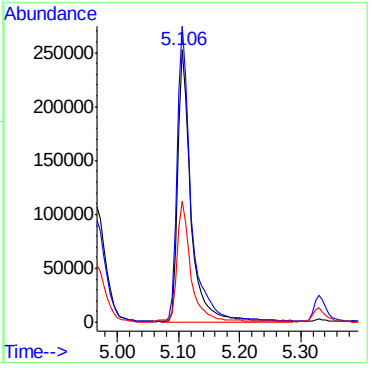


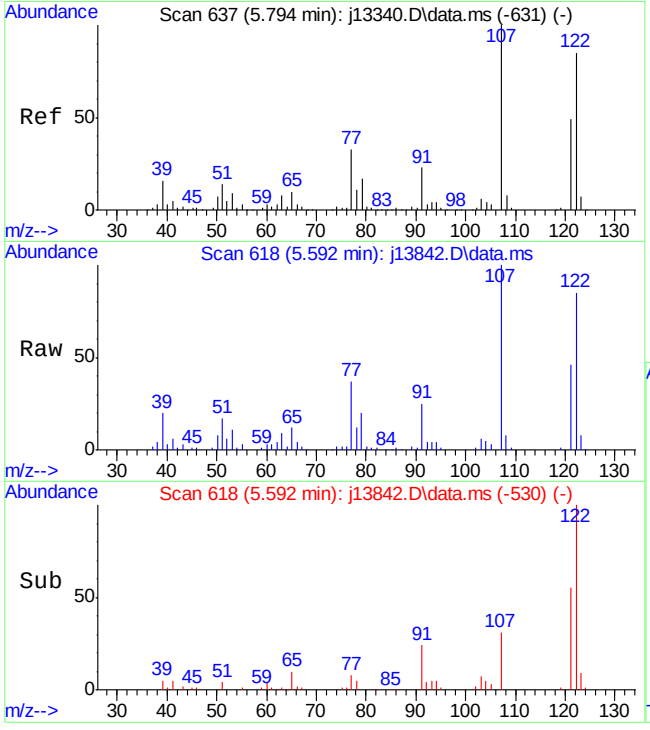


#17
m+p-Cresols
Concen: 25.16 ug/ml
RT: 5.106 min Scan# 527
Delta R.T. -0.016 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion:108 Resp: 380858

Ion	Ratio	Lower	Upper
108	100		
107	115.5	139.5	179.5#
77	48.0	36.8	76.8

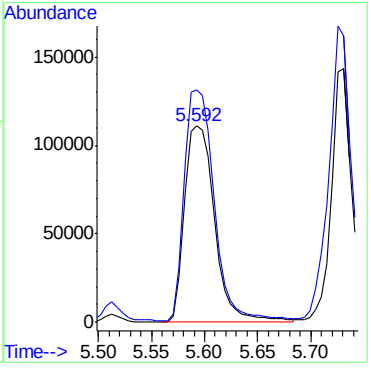


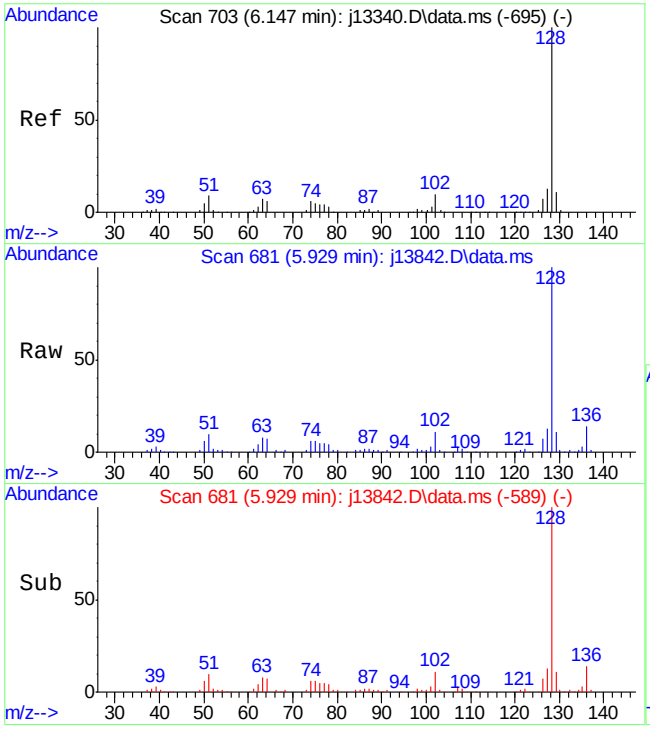


#25
2,4-Dimethylphenol
Concen: 16.48 ug/ml
RT: 5.592 min Scan# 618
Delta R.T. -0.027 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion:122 Resp: 219469

Ion	Ratio	Lower	Upper
122	100		
107	116.7	96.3	136.3

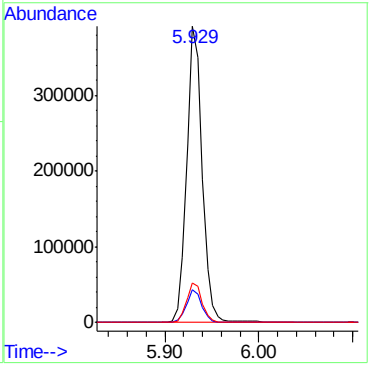




#30
Naphthalene
Concen: 9.63 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13842.D
Acq: 15 Oct 2009 1:23 pm

Tgt Ion:128 Resp: 446016

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	31.2
127	13.2	0.0	33.8



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13832.D
Acq On : 14 Oct 2009 11:01 pm
Operator : sheilac
Sample : t39646-4,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 15 18:15:36 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

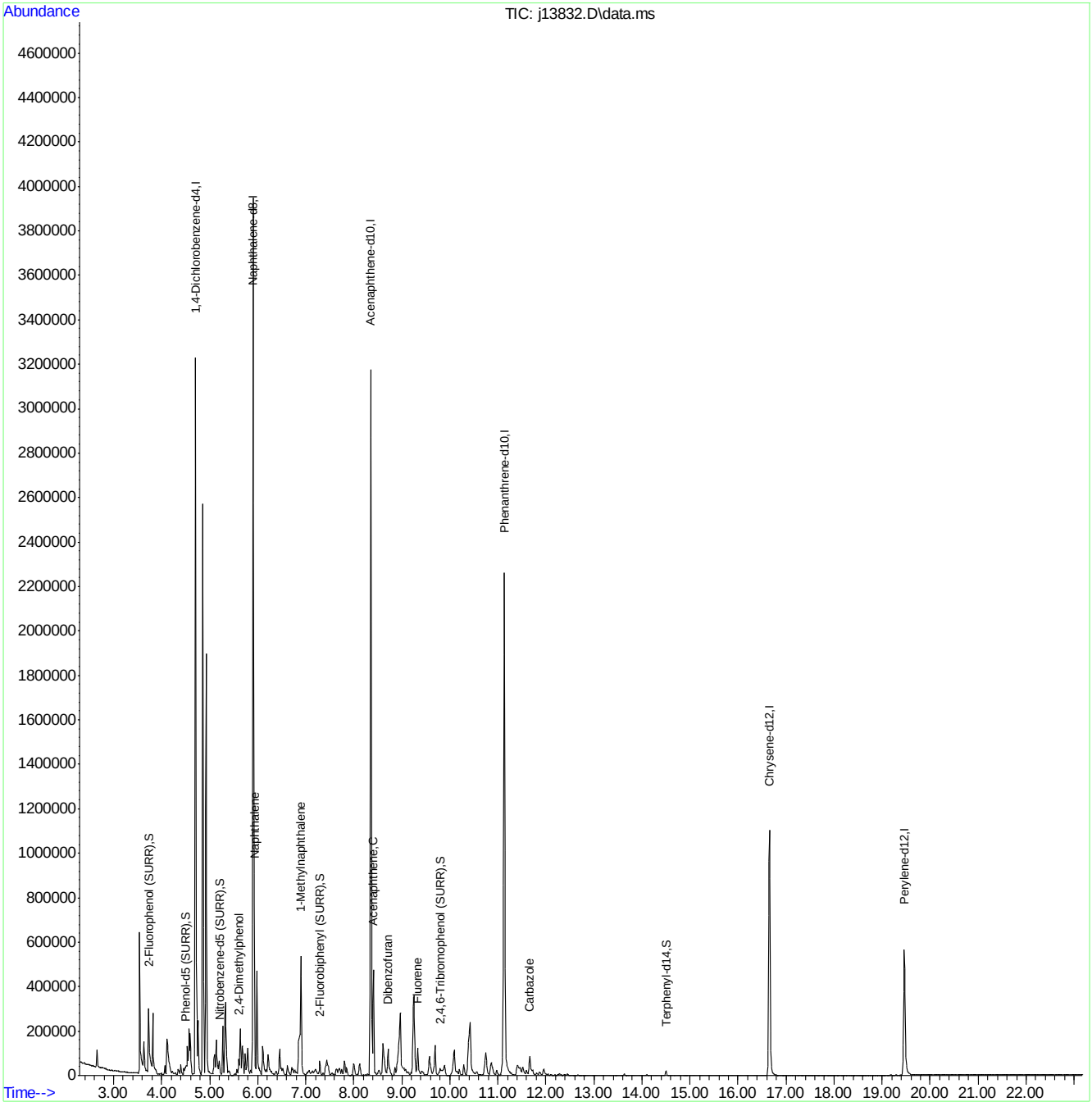
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	543219	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1912391	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.357	164	1030632	40.00	ug/ml	-0.06
57) Phenanthrene-d10	11.139	188	1346976	40.00	ug/ml	-0.06
71) Chrysene-d12	16.653	240	849676	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	502807	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	18284m	1.07	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery	=	1.07%#	
5) Phenol-d5 (SURR)	4.506	99	13286	0.62	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.62%#	
21) Nitrobenzene-d5 (SURR)	5.207	82	14885	0.74	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.48%#	
40) 2-Fluorobiphenyl (SURR)	7.293	172	27533	0.69	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery	=	1.38%#	
62) 2,4,6-Tribromophenol (...	9.802	330	5549	1.22	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	1.22%#	
74) Terphenyl-d14	14.503	244	18716	0.92	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	1.84%#	
Target Compounds						Qvalue
25) 2,4-Dimethylphenol	5.608	122	19363	1.29	ug/ml	84
30) Naphthalene	5.929	128	356203	6.84	ug/ml	99
35) 1-Methylnaphthalene	6.903	142	178185	5.35	ug/ml	97
47) Acenaphthene	8.411	154	157008	5.48	ug/ml	100
50) Dibenzofuran	8.716	168	67415	1.65	ug/ml	98
54) Fluorene	9.331	166	52123	1.46	ug/ml	99
68) Carbazole	11.663	167	54261	1.74	ug/ml	99

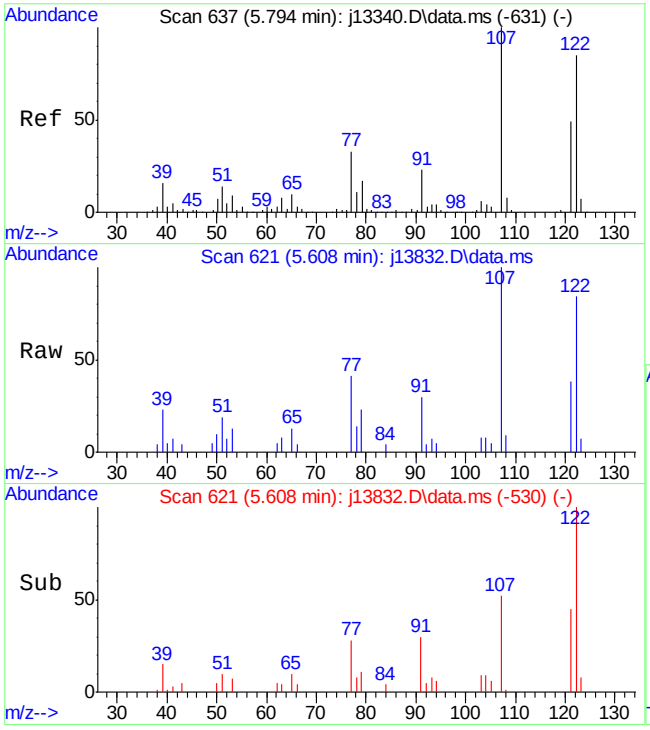
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13832.D
Acq On : 14 Oct 2009 11:01 pm
Operator : sheilac
Sample : t39646-4,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 15 18:15:36 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

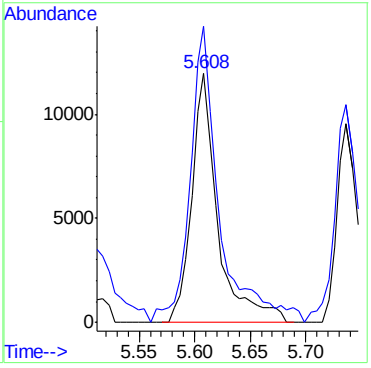


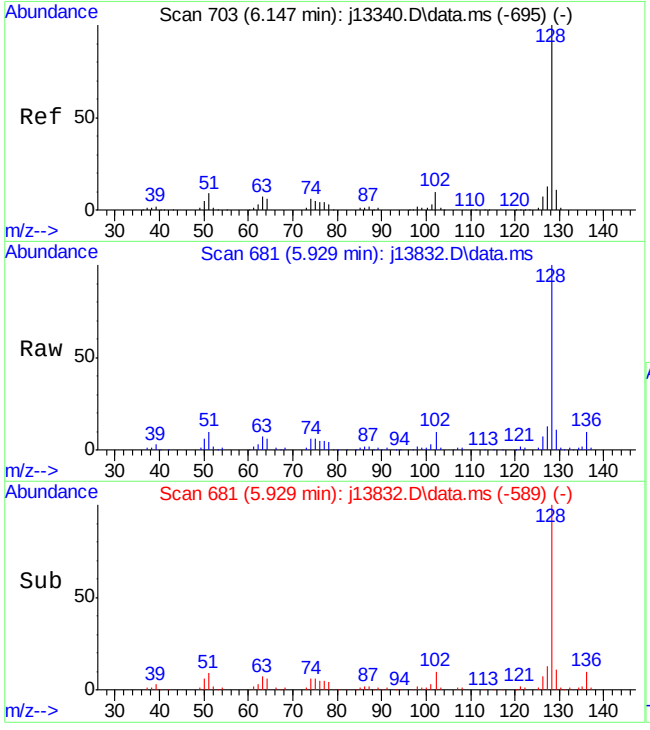


#25
2,4-Dimethylphenol
Concen: 1.29 ug/ml
RT: 5.608 min Scan# 621
Delta R.T. -0.011 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:122 Resp: 19363

Ion	Ratio	Lower	Upper
122	100		
107	133.3	96.3	136.3

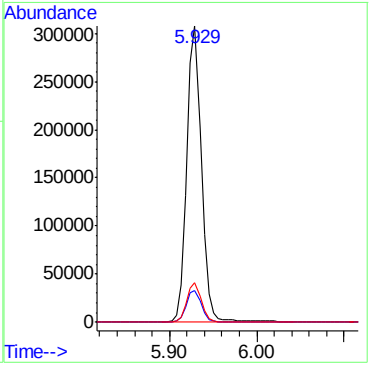


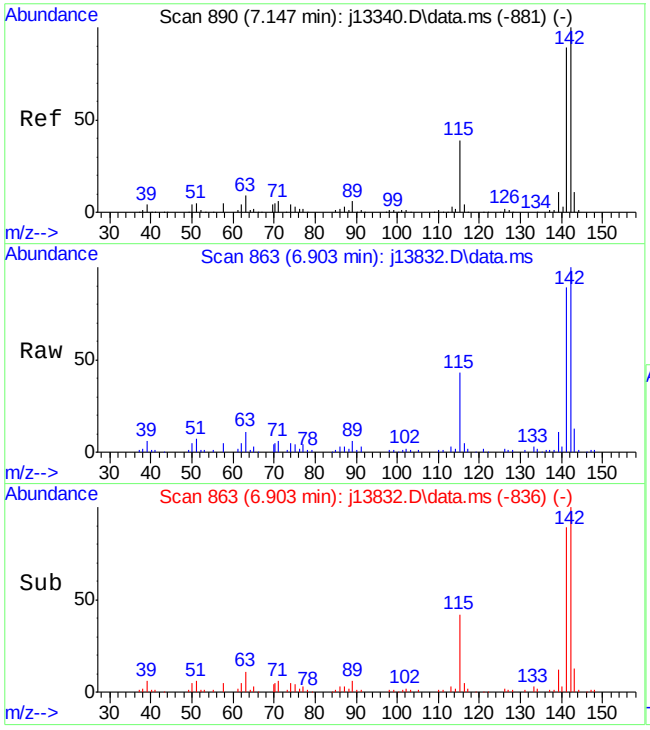


#30
Naphthalene
Concen: 6.84 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.006 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:128 Resp: 356203

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	31.2
127	13.1	0.0	33.8

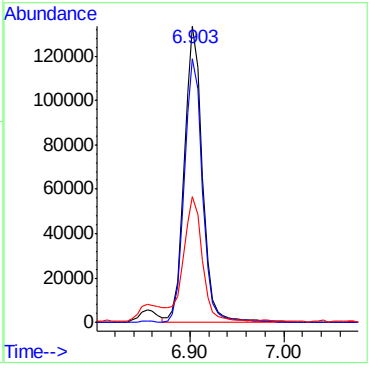


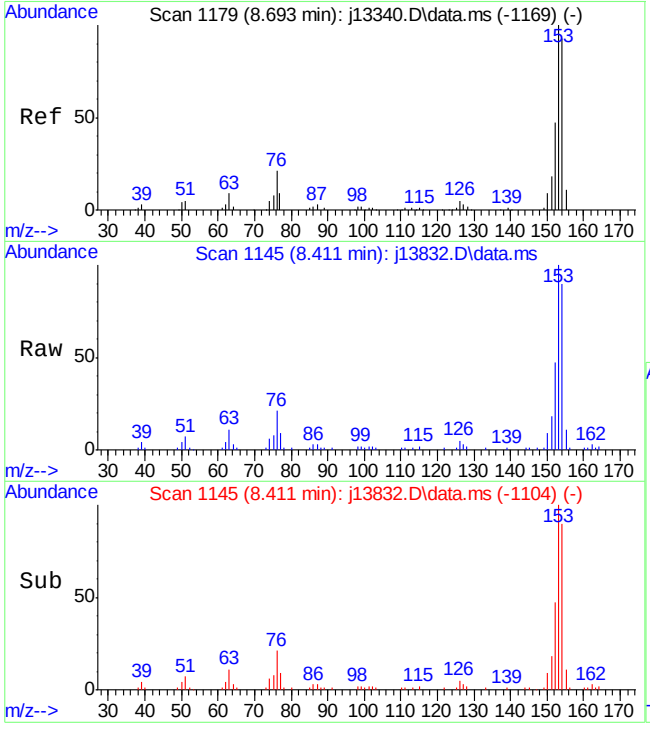


#35
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:142 Resp: 178185

Ion	Ratio	Lower	Upper
142	100		
141	89.2	69.4	109.4
115	43.8	18.9	58.9

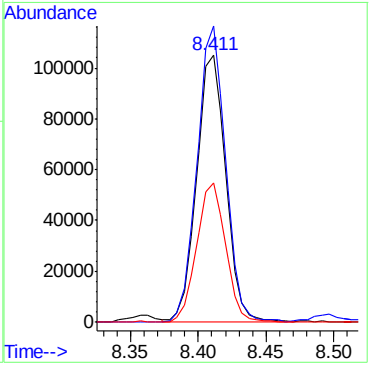


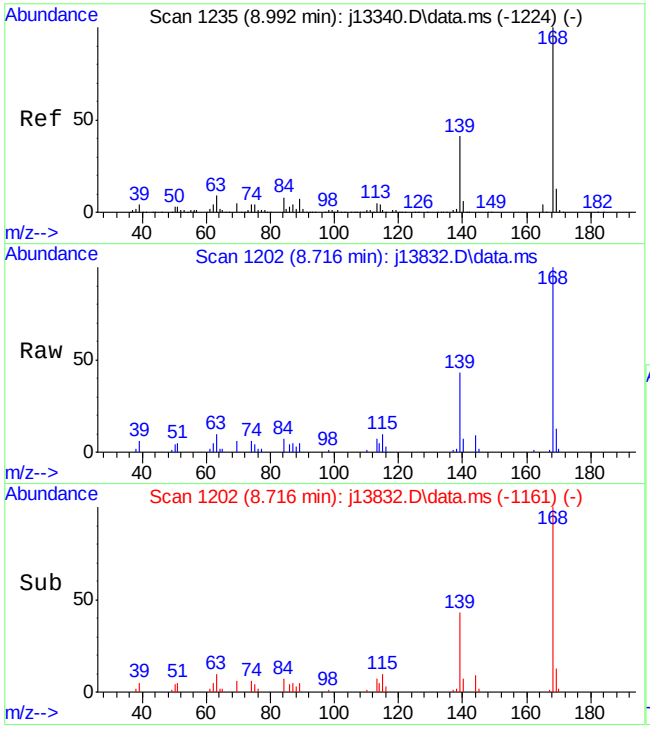


#47
Acenaphthene
Concen: 5.48 ug/ml
RT: 8.411 min Scan# 1145
Delta R.T. -0.282 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:154 Resp: 157008

Ion	Ratio	Lower	Upper
154	100		
153	108.0	87.9	127.9
152	51.6	31.3	71.3

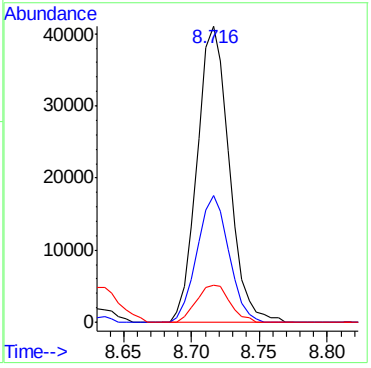


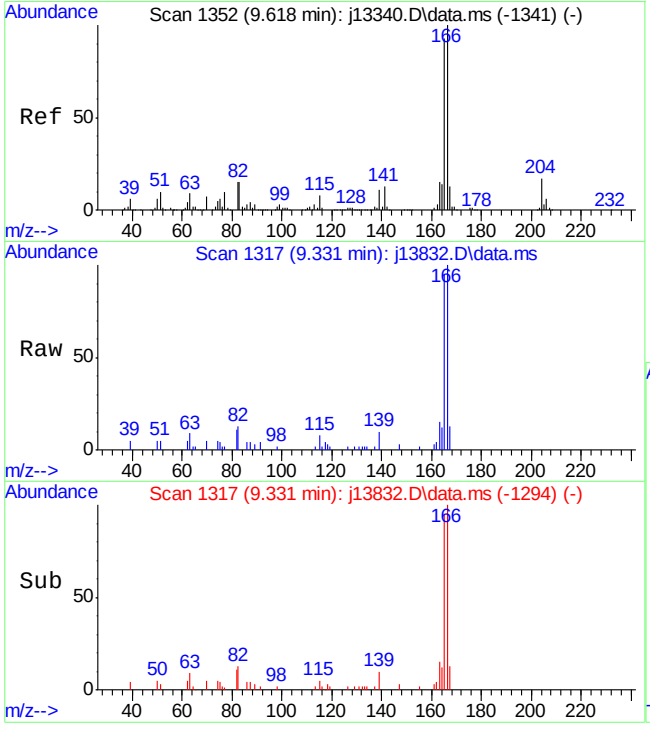


#50
Dibenzofuran
Concen: 1.65 ug/ml
RT: 8.716 min Scan# 1202
Delta R.T. -0.282 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:168 Resp: 67415

Ion	Ratio	Lower	Upper
168	100		
139	42.6	21.2	61.2
169	13.0	0.0	33.2

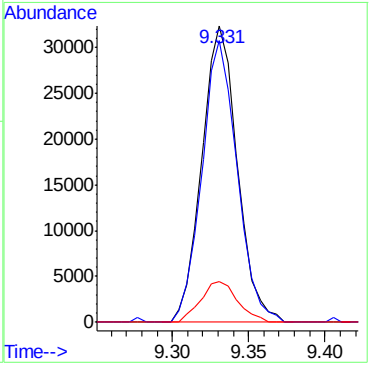


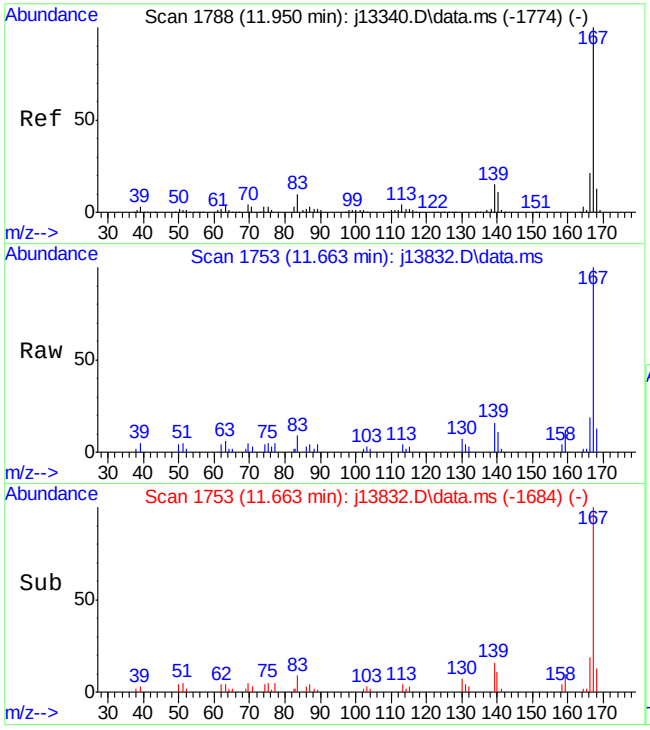


#54
Fluorene
Concen: 1.46 ug/ml
RT: 9.331 min Scan# 1317
Delta R.T. -0.075 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:166 Resp: 52123

Ion	Ratio	Lower	Upper
166	100		
165	94.3	73.8	113.8
167	14.1	0.0	33.3

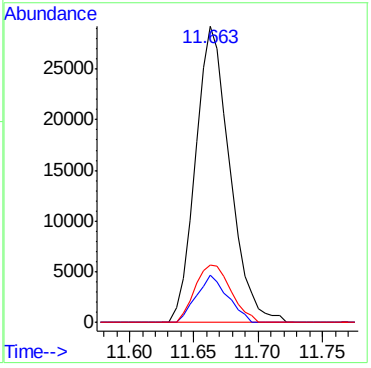




#68
Carbazole
Concen: 1.74 ug/ml
RT: 11.663 min Scan# 1753
Delta R.T. -0.130 min
Lab File: j13832.D
Acq: 14 Oct 2009 11:01 pm

Tgt Ion:167 Resp: 54261

Ion	Ratio	Lower	Upper
167	100		
139	14.5	0.0	34.1
166	20.3	0.9	40.9



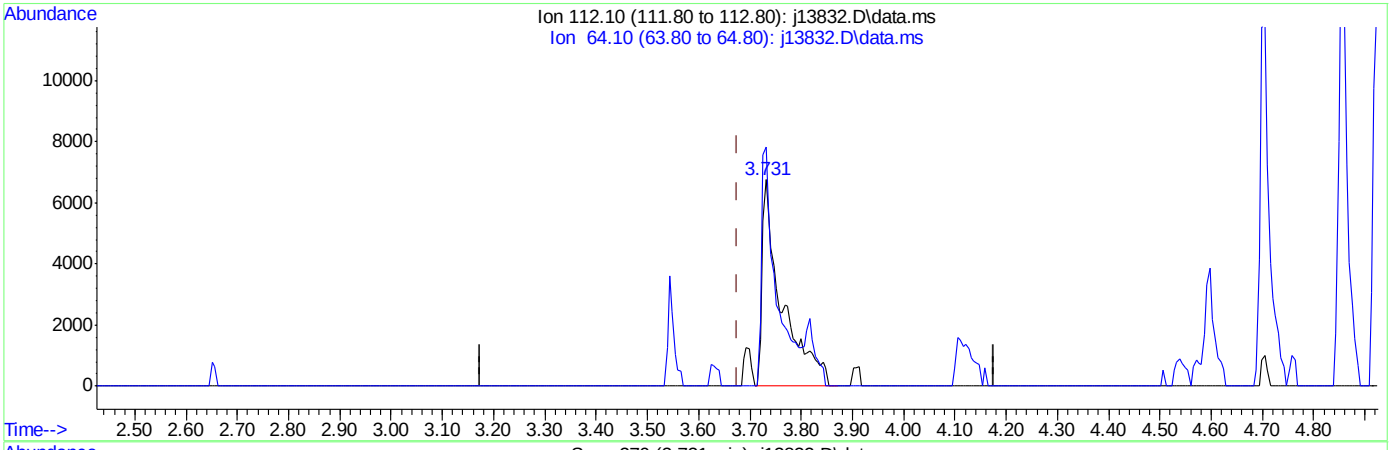
8.1.11

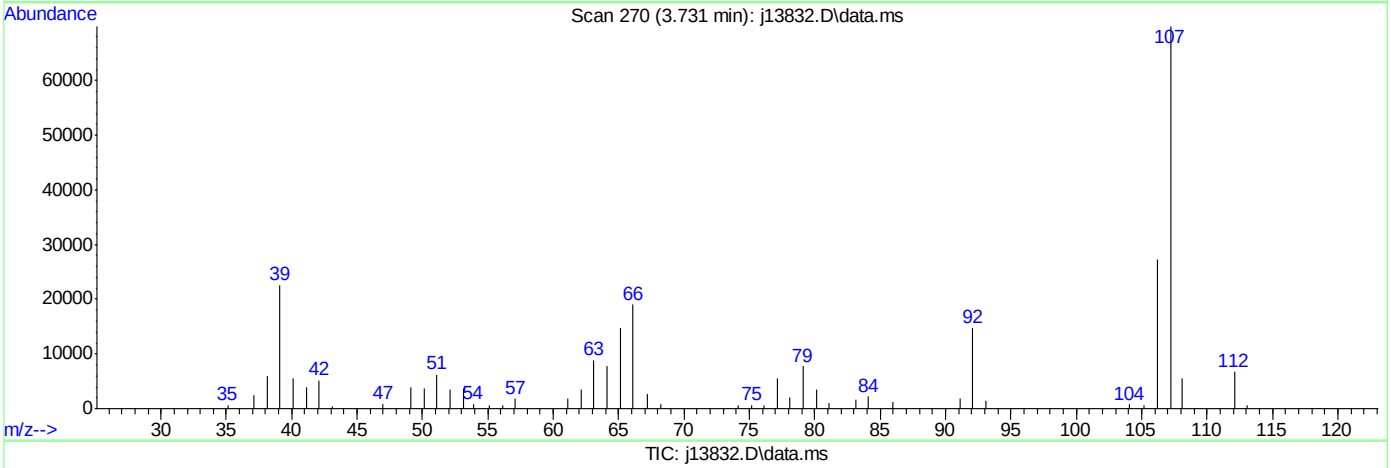
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13832.D
Acq On : 14 Oct 2009 11:01 pm
Operator : sheilac
Sample : t39646-4,40x
Misc : op13250,Ej634,1000,,,1,40,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 15 18:15:36 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13832.D\data.ms

(4) 2-Fluorophenol (SURR) (S)

3.731min (+0.055) 1.07ug/ml m

response 18284

Ion	Exp%	Act%
112.10	100	100
64.10	66.70	84.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 15 18:10:37 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

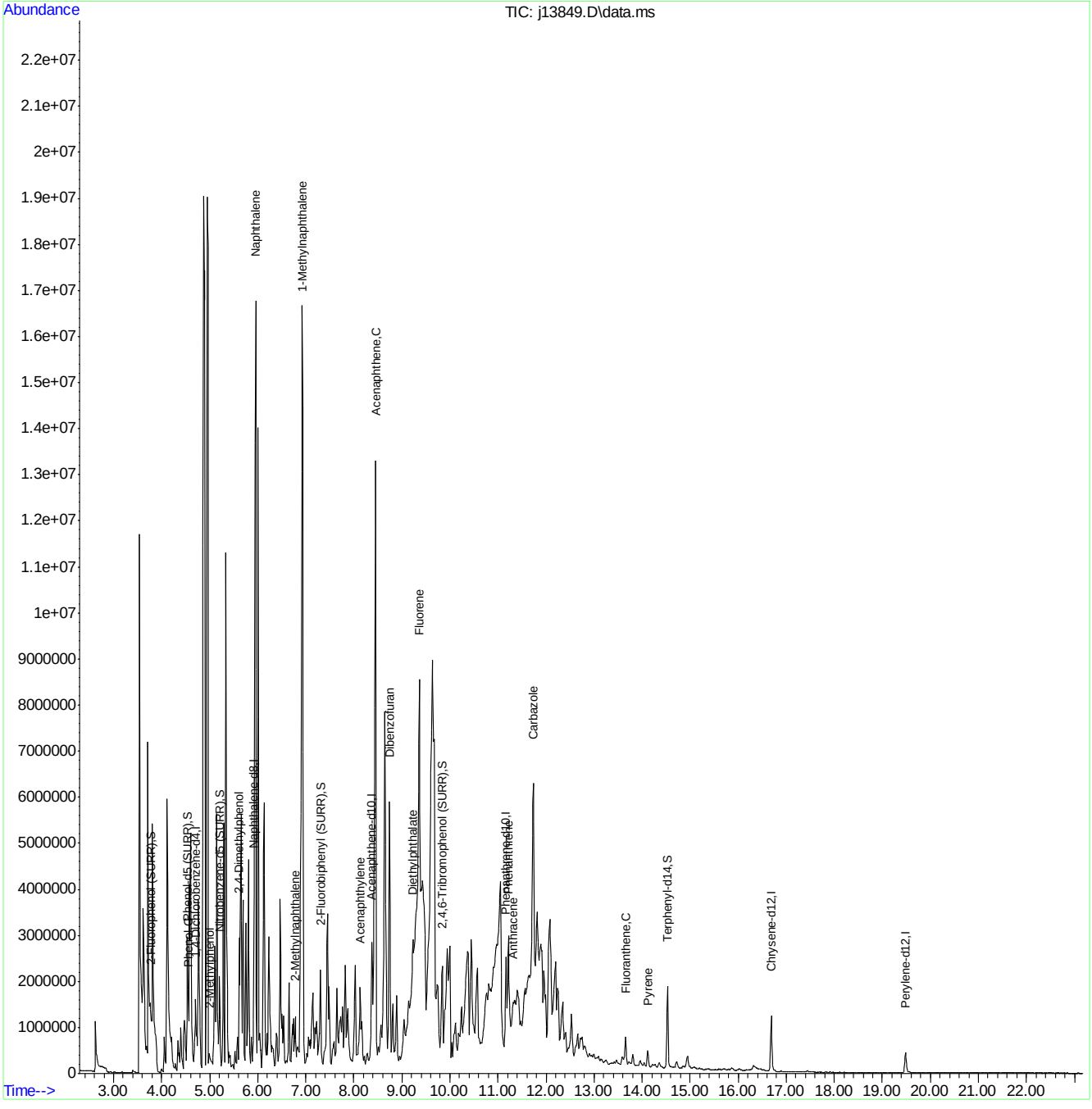
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	334257	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.924	136	1383485	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.374	164	780819	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.166	188	1287438	40.00	ug/ml	-0.04
71) Chrysene-d12	16.691	240	849343	40.00	ug/ml	-0.04
80) Perylene-d12	19.483	264	370331	40.00	ug/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.768	112	562592m	53.63	ug/ml	0.09
Spiked Amount 100.000	Range 10 - 66		Recovery = 53.63%			
5) Phenol-d5 (SURR)	4.544	99	426275	32.52	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 53		Recovery = 32.52%			
21) Nitrobenzene-d5 (SURR)	5.207	82	414778	28.59	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 57.18%			
40) 2-Fluorobiphenyl (SURR)	7.309	172	793615	26.09	ug/ml	-0.23
Spiked Amount 50.000	Range 34 - 113		Recovery = 52.18%			
62) 2,4,6-Tribromophenol (...	9.844	330	298332	68.87	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 68.87%			
74) Terphenyl-d14	14.530	244	888311	43.80	ug/ml	-0.07
Spiked Amount 50.000	Range 12 - 145		Recovery = 87.60%			
Target Compounds						Qvalue
6) Phenol	4.555	94	83405	5.88	ug/ml#	79
14) 2-Methylphenol	4.993	108	37294	3.75	ug/ml#	89
25) 2,4-Dimethylphenol	5.619	122	597049	55.11	ug/ml	97
30) Naphthalene	5.956	128	10792071	286.41	ug/ml	99
34) 2-Methylnaphthalene	6.785	142	185340	8.05	ug/ml	96
35) 1-Methylnaphthalene	6.935	142	6508521	269.95	ug/ml	92
44) Acenaphthylene	8.133	152	723470	19.57	ug/ml	95
47) Acenaphthene	8.454	154	5709244	262.79	ug/ml	100
50) Dibenzofuran	8.743	168	2388603	76.97	ug/ml	99
53) Diethylphthalate	9.229	149	274785	10.10	ug/ml	100
54) Fluorene	9.363	166	2038804	75.38	ug/ml	99
66) Phenanthrene	11.214	178	1213364	31.63	ug/ml	98
67) Anthracene	11.310	178	244259	6.61	ug/ml	82
68) Carbazole	11.732	167	2772947	93.25	ug/ml	99
70) Fluoranthene	13.663	202	307918	8.85	ug/ml	98
73) Pyrene	14.118	202	235262	7.86	ug/ml	95

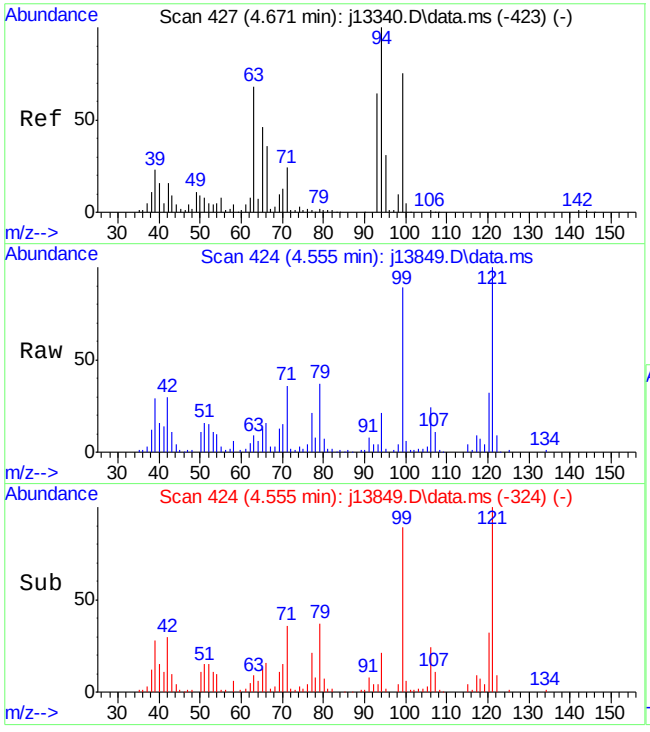
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 15 18:10:37 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

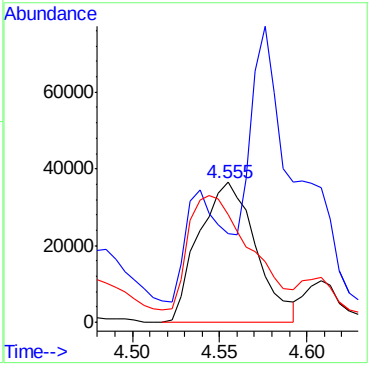


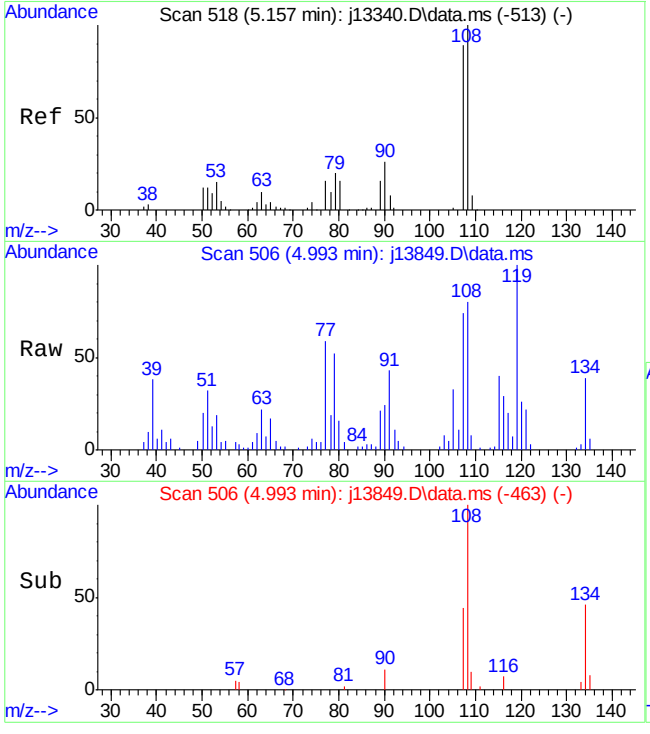


#6
Phenol
Concen: 5.88 ug/ml
RT: 4.555 min Scan# 424
Delta R.T. 0.036 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion: 94 Resp: 83405

Ion	Ratio	Lower	Upper
94	100		
65	55.9	35.3	75.3
66	87.7	37.4	77.4#

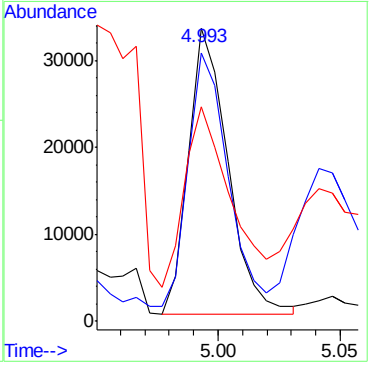


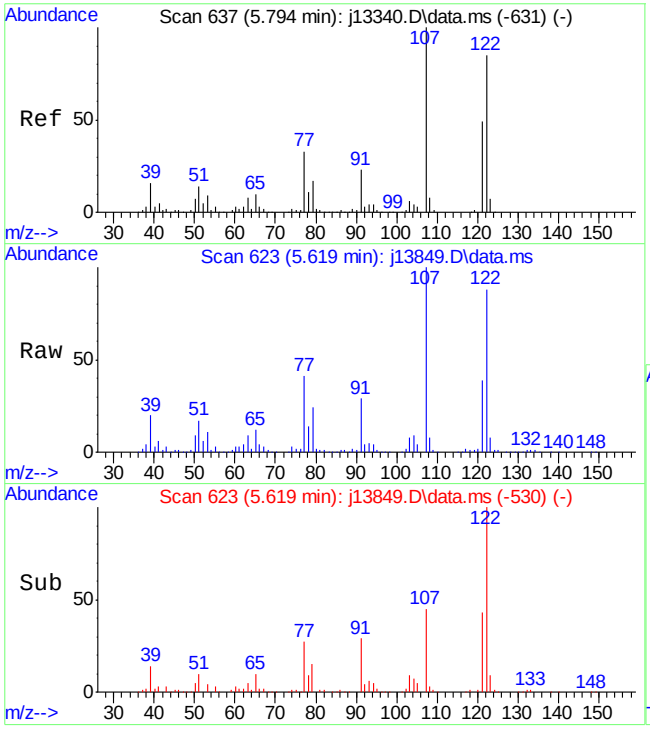


#14
2-Methylphenol
Concen: 3.75 ug/ml
RT: 4.993 min Scan# 506
Delta R.T. 0.032 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:108 Resp: 37294

Ion	Ratio	Lower	Upper
108	100		
107	87.9	68.3	108.3
77	71.4	30.8	70.8#

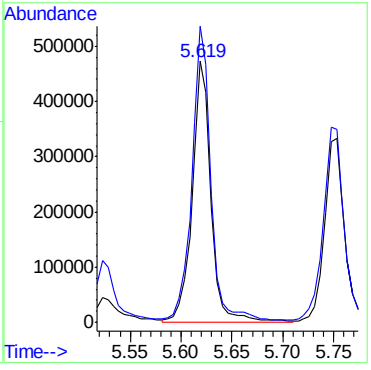


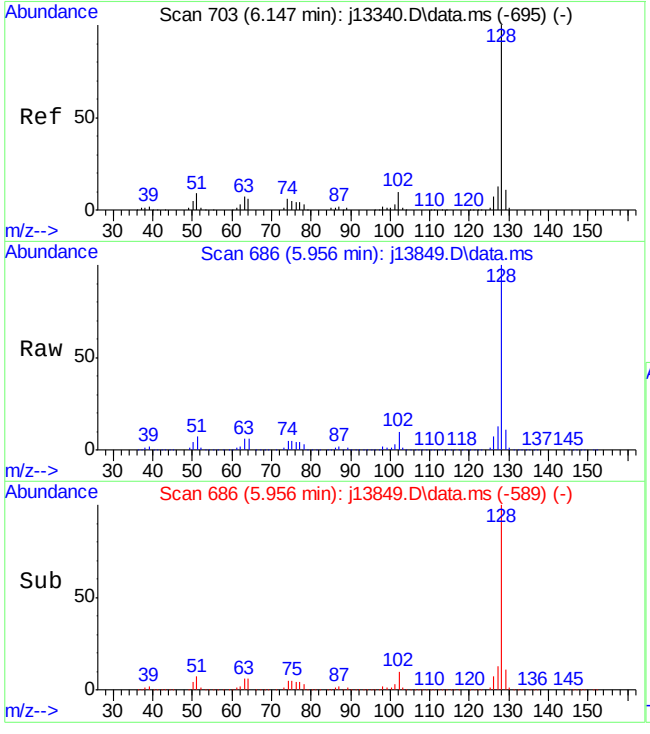


#25
2,4-Dimethylphenol
Concen: 55.11 ug/ml
RT: 5.619 min Scan# 623
Delta R.T. -0.000 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:122 Resp: 597049

Ion	Ratio	Lower	Upper
122	100		
107	113.2	96.3	136.3

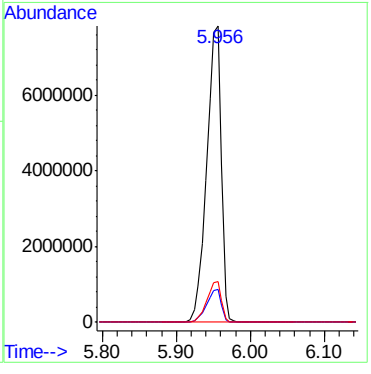




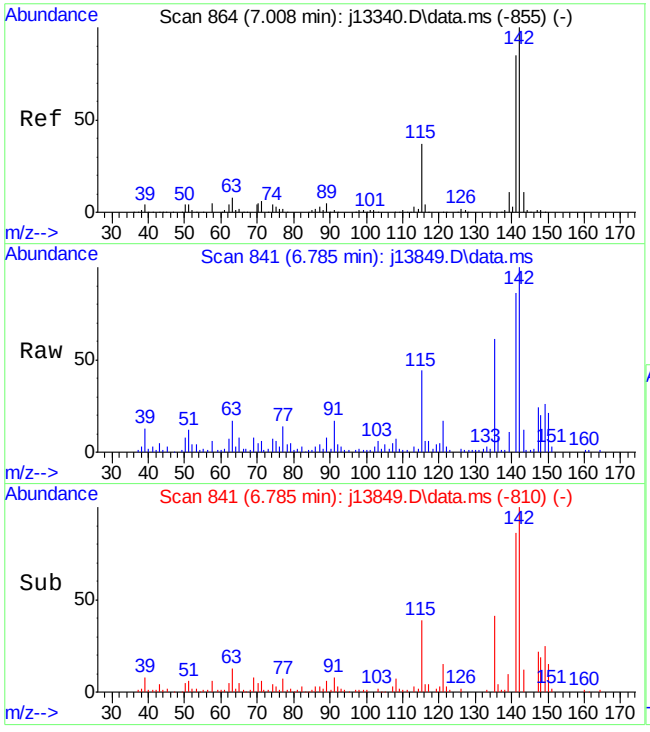
#30
Naphthalene
Concen: 286.41 ug/ml
RT: 5.956 min Scan# 686
Delta R.T. 0.021 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:128 Resp:10792071

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	31.2
127	13.5	0.0	33.8



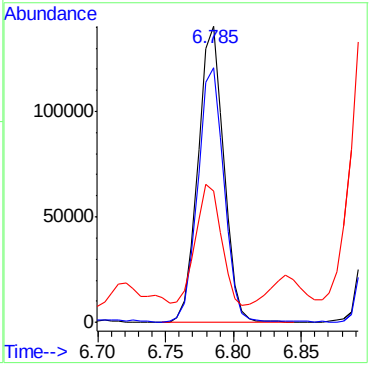
8.1.12
8

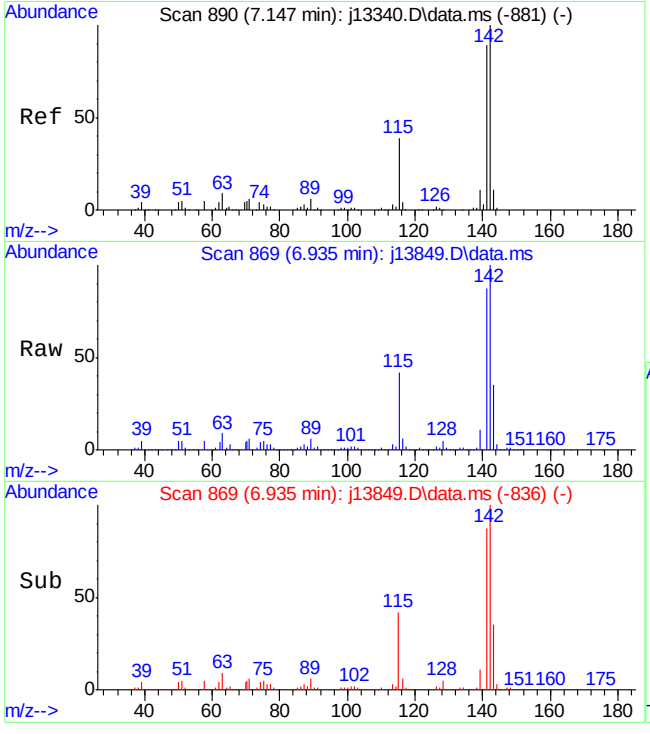


#34
2-Methylnaphthalene
Concen: 8.05 ug/ml
RT: 6.785 min Scan# 841
Delta R.T. -0.032 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:142 Resp: 185340

Ion	Ratio	Lower	Upper
142	100		
141	87.6	66.2	106.2
115	44.5	17.8	57.8

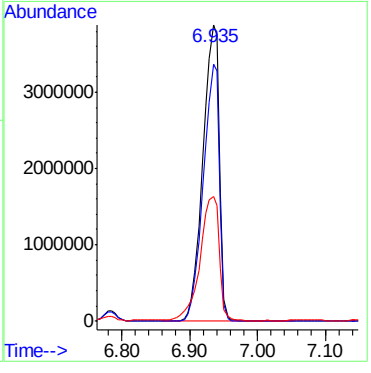


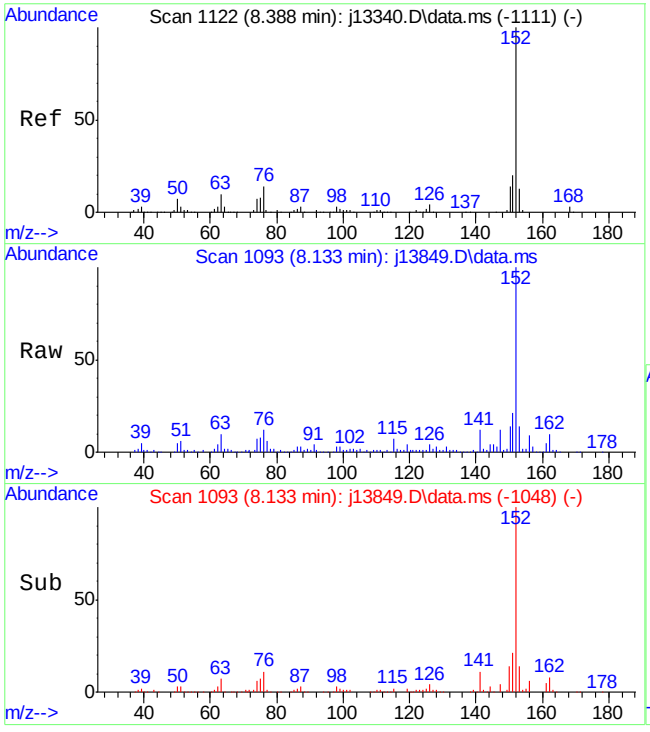


#35
1-Methylnaphthalene
Concen: 269.95 ug/ml
RT: 6.935 min Scan# 869
Delta R.T. -0.021 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:142 Resp: 6508521

Ion	Ratio	Lower	Upper
142	100		
141	84.8	69.4	109.4
115	48.6	18.9	58.9

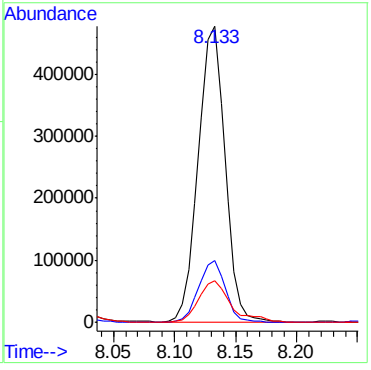


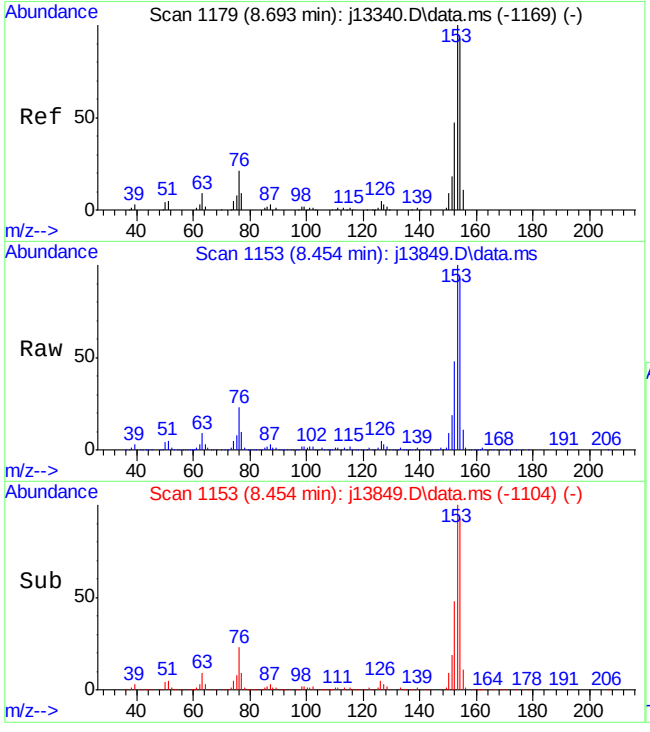


#44
Acenaphthylene
Concen: 19.57 ug/ml
RT: 8.133 min Scan# 1093
Delta R.T. -0.261 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:152 Resp: 723470

Ion	Ratio	Lower	Upper
152	100		
151	20.8	0.2	40.2
153	16.9	0.0	33.0

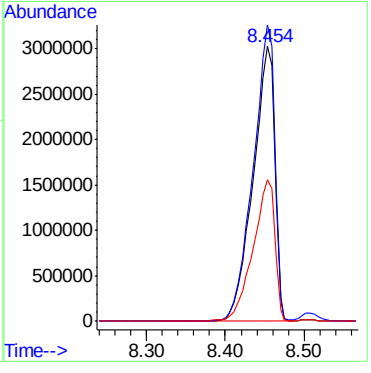


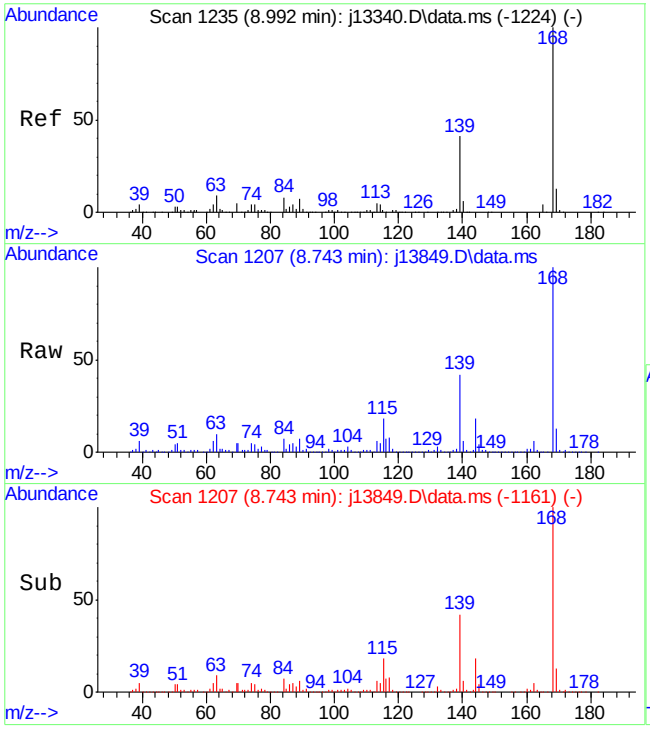


#47
Acenaphthene
Concen: 262.79 ug/ml
RT: 8.454 min Scan# 1153
Delta R.T. -0.239 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:154 Resp: 5709244

Ion	Ratio	Lower	Upper
154	100		
153	107.6	87.9	127.9
152	51.8	31.3	71.3

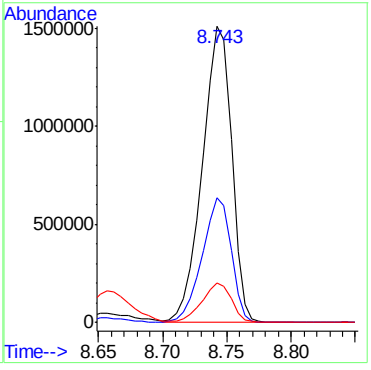


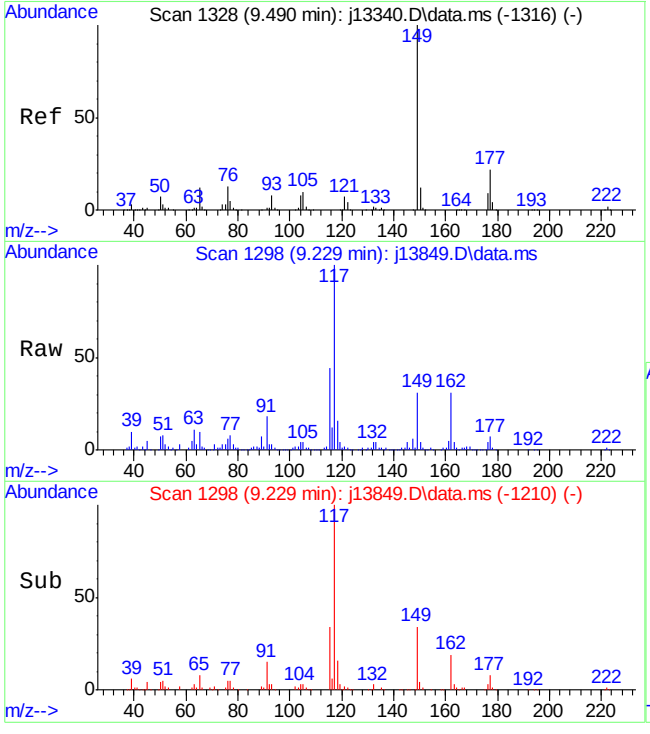


#50
Dibenzofuran
Concen: 76.97 ug/ml
RT: 8.743 min Scan# 1207
Delta R.T. -0.255 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:168 Resp: 2388603

Ion	Ratio	Lower	Upper
168	100		
139	41.7	21.2	61.2
169	13.3	0.0	33.2

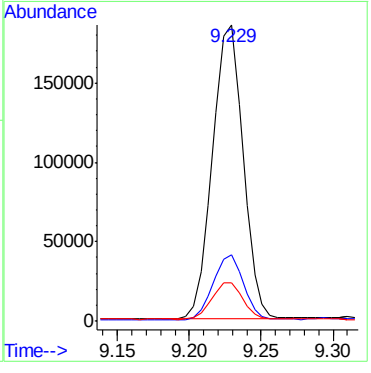


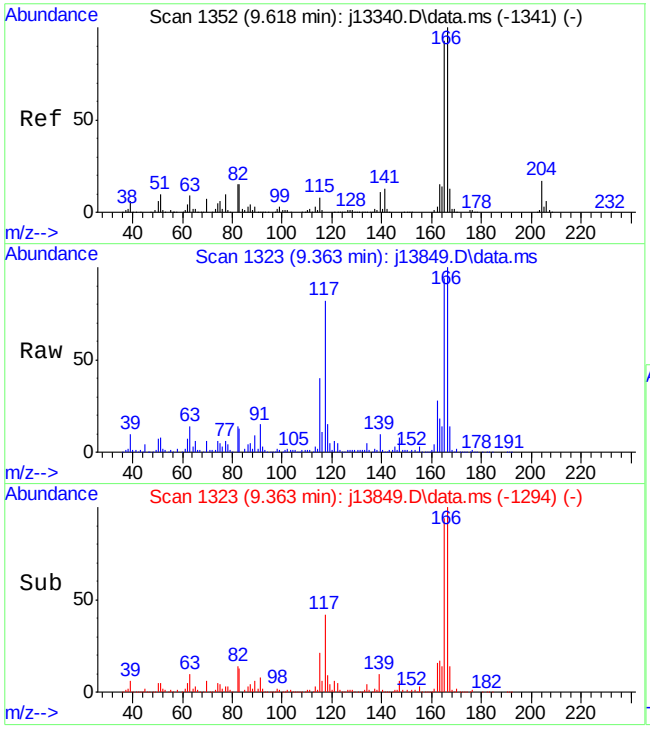


#53
Diethylphthalate
Concen: 10.10 ug/ml
RT: 9.229 min Scan# 1298
Delta R.T. -0.027 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:149 Resp: 274785

Ion	Ratio	Lower	Upper
149	100		
177	22.2	2.2	42.2
150	12.6	0.0	32.2

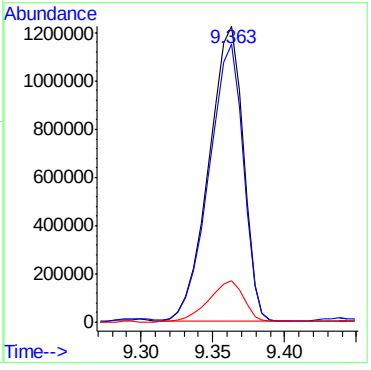


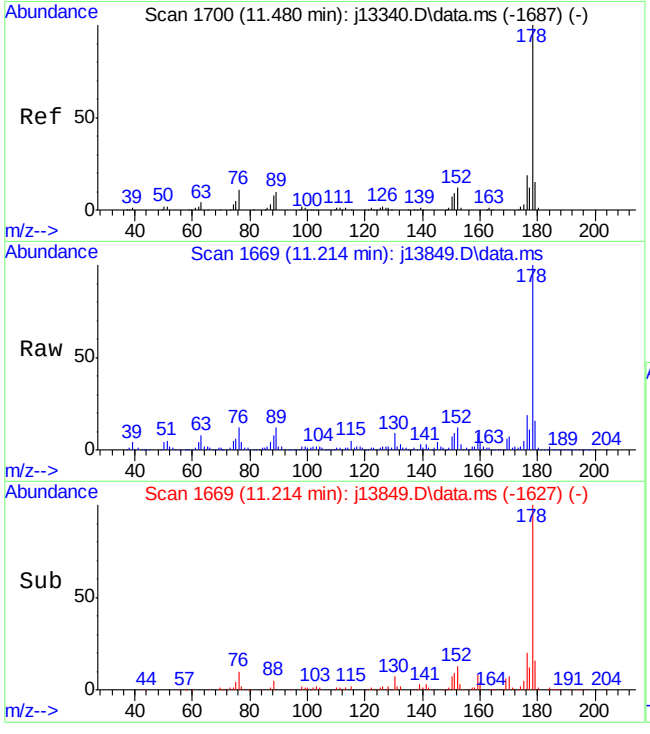


#54
Fluorene
Concen: 75.38 ug/ml
RT: 9.363 min Scan# 1323
Delta R.T. -0.043 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:166 Resp: 2038804

Ion	Ratio	Lower	Upper
166	100		
165	93.3	73.8	113.8
167	14.2	0.0	33.3

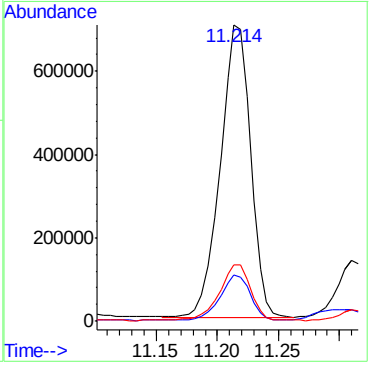


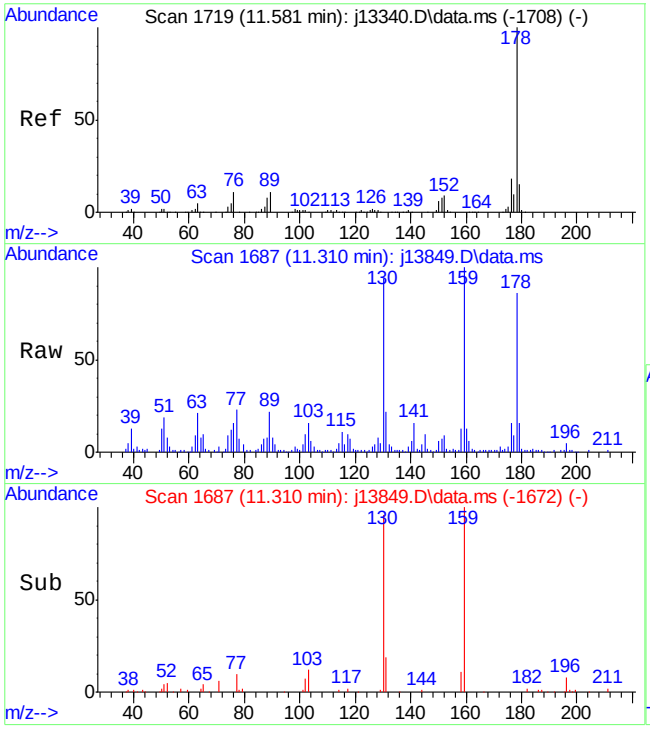


#66
Phenanthrene
Concen: 31.63 ug/ml
RT: 11.214 min Scan# 1669
Delta R.T. 0.027 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:178 Resp: 1213364

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	35.2
176	19.9	0.0	38.8

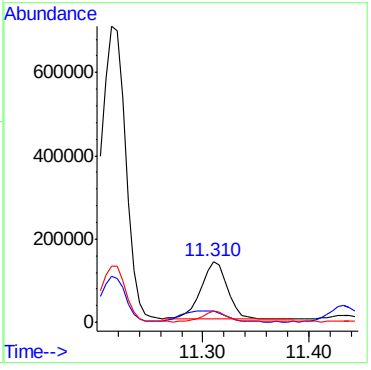


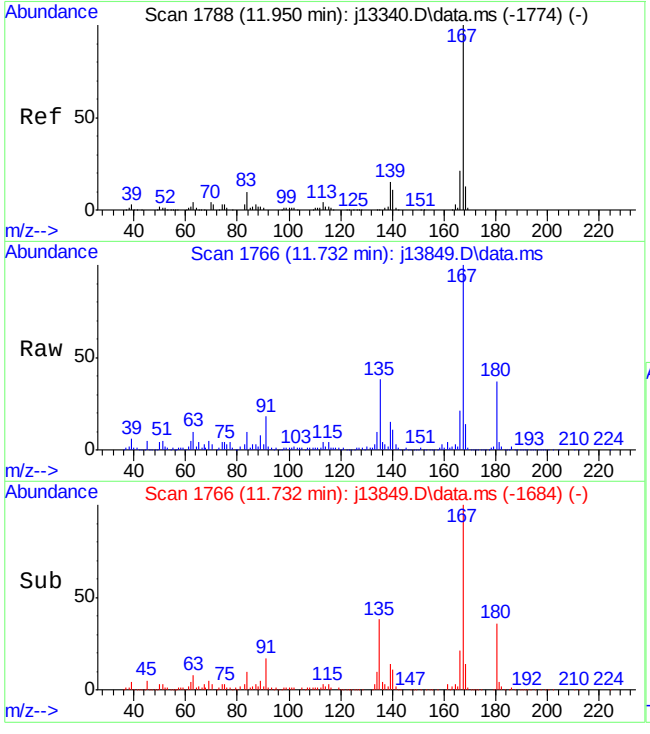


#67
Anthracene
Concen: 6.61 ug/ml
RT: 11.310 min Scan# 1687
Delta R.T. -0.119 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:178 Resp: 244259

Ion	Ratio	Lower	Upper
178	100		
179	30.2	0.0	35.1
176	17.0	0.0	38.3

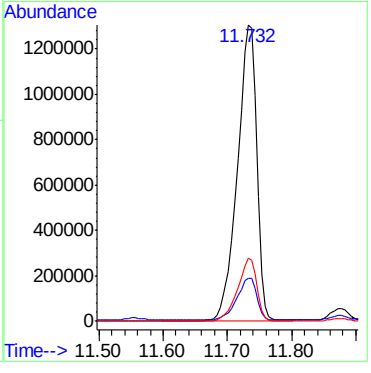


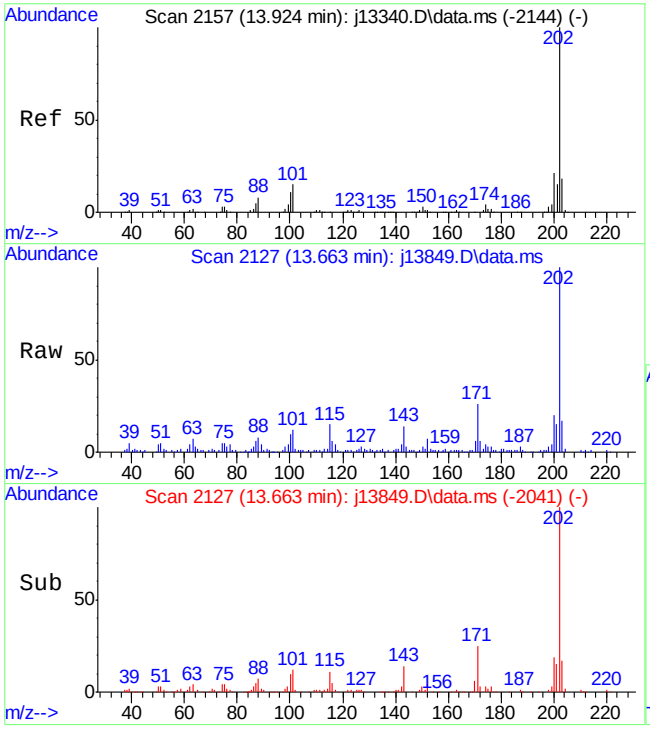


#68
Carbazole
Concen: 93.25 ug/ml
RT: 11.732 min Scan# 1766
Delta R.T. -0.061 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:167 Resp: 2772947

Ion	Ratio	Lower	Upper
167	100		
139	14.7	0.0	34.1
166	20.7	0.9	40.9

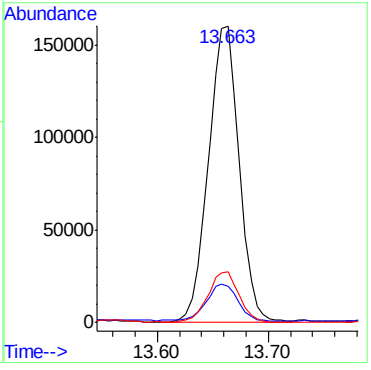


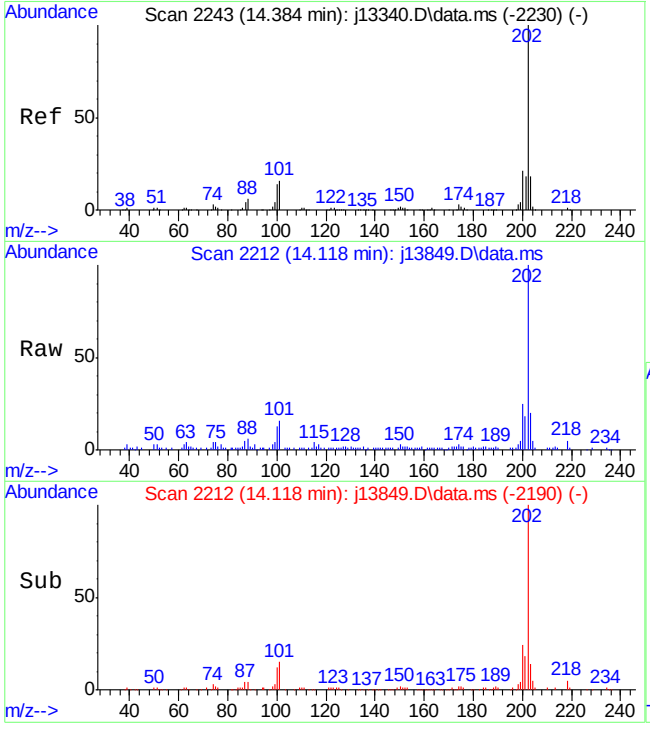


#70
Fluoranthene
Concen: 8.85 ug/ml
RT: 13.663 min Scan# 2127
Delta R.T. -0.037 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:202 Resp: 307918

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	33.9
203	17.2	0.0	37.3

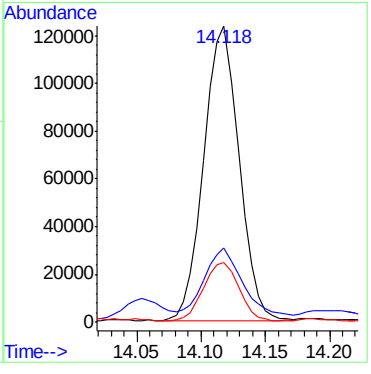




#73
Pyrene
Concen: 7.86 ug/ml
RT: 14.118 min Scan# 2212
Delta R.T. -0.083 min
Lab File: j13849.D
Acq: 15 Oct 2009 4:49 pm

Tgt Ion:202 Resp: 235262

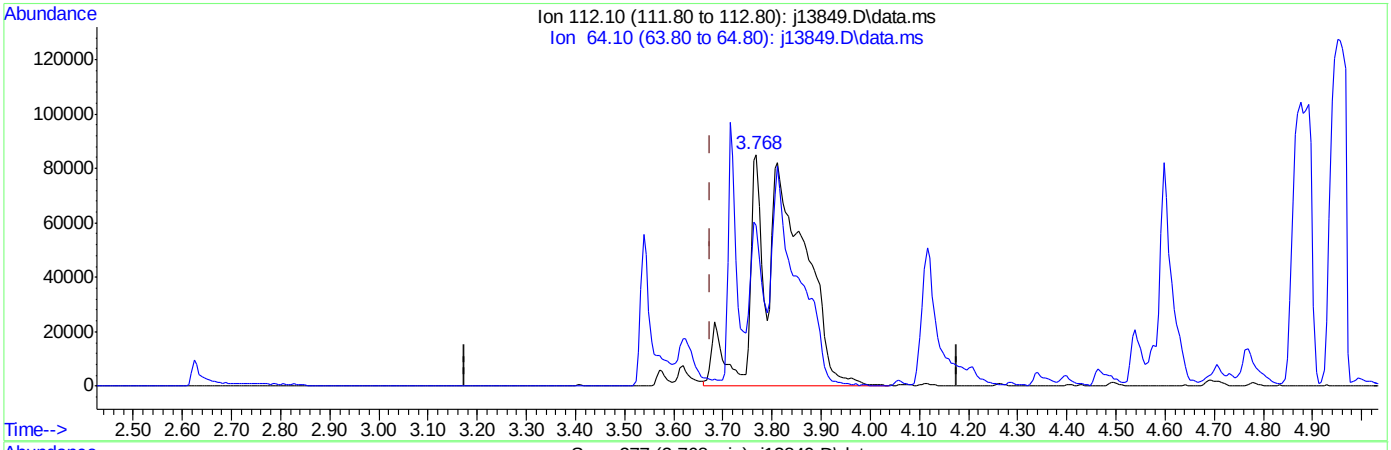
Ion	Ratio	Lower	Upper
202	100		
200	23.3	0.5	40.5
203	19.5	0.0	37.8

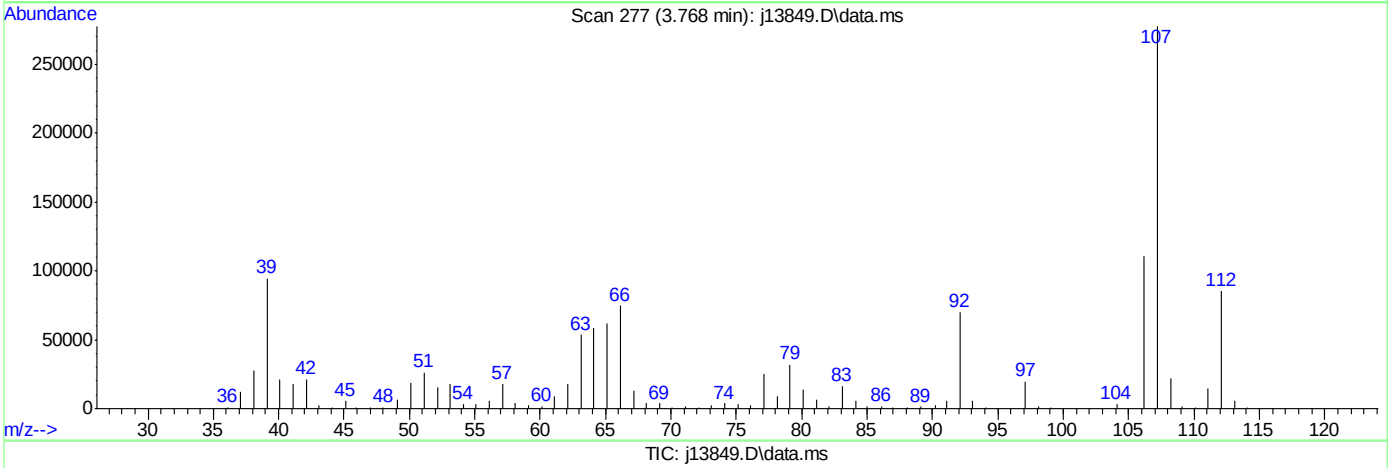


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 15 18:10:37 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13849.D\data.ms

(4) 2-Fluorophenol (SURR) (S)

3.768min (+0.092) 53.63ug/ml m

response 562592

Ion	Exp%	Act%
112.10	100	100
64.10	66.70	21.10#
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13849.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.624	59	63	84	rBV	1092055	2078835	5.18%	0.392%
2	3.538	230	234	245	rBV	11687730	18143496	45.24%	3.420%
3	3.619	245	249	259	rVB	3160672	6645203	16.57%	1.253%
4	3.715	264	267	273	rBV	6743628	7707234	19.22%	1.453%
5	3.811	282	285	315	rVB	5408537	10670863	26.61%	2.011%
6	4.057	327	331	337	rBV	762732	988681	2.47%	0.186%
7	4.116	337	342	357	rVV	5827871	12638360	31.51%	2.382%
8	4.207	357	359	371	rVB2	685564	915616	2.28%	0.173%
9	4.341	380	384	386	rBV	665325	740793	1.85%	0.140%
10	4.400	392	395	404	rVB	907005	1271737	3.17%	0.240%
11	4.464	404	407	409	rBV	1062636	1116035	2.78%	0.210%
12	4.539	417	421	425	rBV2	2691596	3722490	9.28%	0.702%
13	4.576	425	428	430	rBV	2964467	3125651	7.79%	0.589%
14	4.597	430	432	445	rVB2	4973618	7723352	19.26%	1.456%
15	4.704	445	452	456	rBV3	1368315	2180277	5.44%	0.411%
16	4.769	460	464	477	rVB	3634739	6814813	16.99%	1.285%
17	4.876	477	484	486	rBV	18919569	34150152	85.15%	6.437%
18	4.950	492	498	500	rBV	18838662	31933144	79.63%	6.019%
19	5.111	518	528	531	rBV2	2577173	4940292	12.32%	0.931%
20	5.148	531	535	542	rVV	5432545	7286480	18.17%	1.373%
21	5.207	542	546	553	rVB3	1956442	2763580	6.89%	0.521%
22	5.287	553	561	565	rBV	5286580	6536747	16.30%	1.232%
23	5.336	565	570	579	rVB2	11096314	17771908	44.31%	3.350%
24	5.523	602	605	611	rBV2	389825	609196	1.52%	0.115%
25	5.576	611	615	618	rBV	593797	693544	1.73%	0.131%
26	5.619	618	623	625	rBV	2645697	3101927	7.73%	0.585%
27	5.651	625	629	633	rVV2	5258782	7935339	19.79%	1.496%
28	5.694	633	637	643	rVB	3503516	5246991	13.08%	0.989%
29	5.753	643	648	653	rBV2	2996460	4297633	10.72%	0.810%
30	5.806	653	658	666	rVB2	4445658	6343539	15.82%	1.196%
31	5.865	666	669	672	rBV	585726	565315	1.41%	0.107%
32	5.956	672	686	690	rBV	16513400	28196124	70.31%	5.315%
33	6.009	690	696	700	rBV	13593262	16855116	42.03%	3.177%
34	6.132	709	719	726	rBV3	5755760	10435186	26.02%	1.967%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	6.229	732	737	747	rBV2	2570675	4880369	12.17%	0.920%
36	6.395	761	768	773	rBV2	724364	1409608	3.51%	0.266%
37	6.469	773	782	786	rVV2	3607740	5864891	14.62%	1.106%
38	6.507	786	789	792	rVV3	1083150	1556536	3.88%	0.293%
39	6.539	792	795	801	rVB	1041952	1308774	3.26%	0.247%
40	6.651	808	816	822	rBV2	1731872	2529983	6.31%	0.477%
41	6.721	824	829	831	rBV	826471	1138657	2.84%	0.215%
42	6.742	831	833	836	rVV2	867820	899976	2.24%	0.170%
43	6.780	836	840	844	rVB2	879827	1052746	2.63%	0.198%
44	6.929	854	868	879	rVB3	16451676	40103899	100.00%	7.559%
45	7.058	888	892	894	rBV2	440584	541409	1.35%	0.102%
46	7.149	900	909	914	rVV4	1223432	2673123	6.67%	0.504%
47	7.197	914	918	920	rVV	491521	639483	1.59%	0.121%
48	7.218	920	922	929	rVB4	742826	1286370	3.21%	0.242%
49	7.282	929	934	935	rBV3	478448	616183	1.54%	0.116%
50	7.309	935	939	948	rVB	2056413	2889863	7.21%	0.545%
51	7.448	948	965	969	rBV3	3271563	6679382	16.66%	1.259%
52	7.486	969	972	980	rVB2	1700544	2570775	6.41%	0.485%
53	7.582	980	990	995	rBV7	502017	1444238	3.60%	0.272%
54	7.646	997	1002	1008	rVV	1479083	2484753	6.20%	0.468%
55	7.726	1008	1017	1020	rVV5	874923	2618659	6.53%	0.494%
56	7.764	1020	1024	1029	rVV2	1116669	2013373	5.02%	0.380%
57	7.823	1029	1035	1040	rVV3	2025607	4059935	10.12%	0.765%
58	7.871	1040	1044	1056	rVB5	1125584	2522630	6.29%	0.476%
59	8.026	1063	1073	1079	rBV3	2086784	4118555	10.27%	0.776%
60	8.133	1083	1093	1097	rVV2	1599252	3549309	8.85%	0.669%
61	8.165	1097	1099	1105	rVV2	863277	1182234	2.95%	0.223%
62	8.283	1113	1121	1126	rBV5	252883	683860	1.71%	0.129%
63	8.379	1128	1139	1143	rVV	2589062	5619770	14.01%	1.059%
64	8.454	1143	1153	1160	rVV	13043067	26965027	67.24%	5.083%
65	8.513	1160	1164	1167	rVV2	302549	539756	1.35%	0.102%
66	8.561	1167	1173	1177	rVV4	781328	1727512	4.31%	0.326%
67	8.646	1178	1189	1199	rVV2	7589482	19026470	47.44%	3.586%
68	8.743	1199	1207	1215	rVV2	5624653	10105994	25.20%	1.905%
69	8.812	1215	1220	1225	rVV	1244917	2146359	5.35%	0.405%
70	8.892	1229	1235	1242	rVB	1418952	2506584	6.25%	0.472%
71	9.047	1252	1264	1269	rBV2	860956	2652851	6.61%	0.500%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

72	9.138	1276	1281	1285	rBV4	540198	1098511	2.74%	0.207%
73	9.229	1294	1298	1301	rBV	924329	1543995	3.85%	0.291%
74	9.363	1317	1323	1328	rVB	4597183	6999990	17.45%	1.319%
75	9.556	1351	1359	1360	rBV3	1319131	2420690	6.04%	0.456%
76	9.609	1362	1369	1370	rBV	4110950	5905730	14.73%	1.113%
77	9.839	1404	1412	1417	rBV4	1756156	3310981	8.26%	0.624%
78	9.893	1417	1422	1424	rBV	703726	1169023	2.91%	0.220%
79	9.946	1426	1432	1436	rBV5	1208433	2327850	5.80%	0.439%
80	10.090	1453	1459	1460	rBV3	507213	814877	2.03%	0.154%
81	10.117	1461	1464	1471	rVB	607579	914802	2.28%	0.172%
82	10.181	1472	1476	1481	rBV5	368851	799016	1.99%	0.151%
83	10.240	1482	1487	1491	rVV3	628695	940933	2.35%	0.177%
84	10.449	1517	1526	1533	rBV3	2082791	5109973	12.74%	0.963%
85	10.572	1539	1549	1554	rVB3	1526152	3802255	9.48%	0.717%
86	11.171	1653	1661	1665	rBV2	1948360	4006070	9.99%	0.755%
87	11.219	1665	1670	1679	rVB2	2055905	4166947	10.39%	0.785%
88	11.732	1758	1766	1774	rBV	4027059	8700010	21.69%	1.640%
89	11.957	1804	1808	1813	rBV	698941	978855	2.44%	0.185%
90	12.080	1820	1831	1839	rBV5	2542869	9294407	23.18%	1.752%
91	12.348	1872	1881	1887	rVB5	816307	2070025	5.16%	0.390%
92	12.535	1908	1916	1925	rVB5	902626	2254023	5.62%	0.425%
93	12.658	1927	1939	1944	rBV2	419922	1140370	2.84%	0.215%
94	13.658	2120	2126	2134	rVB2	600616	1237921	3.09%	0.233%
95	13.808	2149	2154	2166	rVB2	237516	486780	1.21%	0.092%
96	14.118	2205	2212	2223	rVB	363055	738295	1.84%	0.139%
97	14.530	2280	2289	2298	rBV2	1752730	3153869	7.86%	0.594%
98	14.947	2358	2367	2384	rVB	271758	788577	1.97%	0.149%
99	16.691	2683	2693	2703	rBV	1197272	2555175	6.37%	0.482%
100	19.483	3206	3215	3229	rBV	431566	1029333	2.57%	0.194%

Sum of corrected areas: 530514828

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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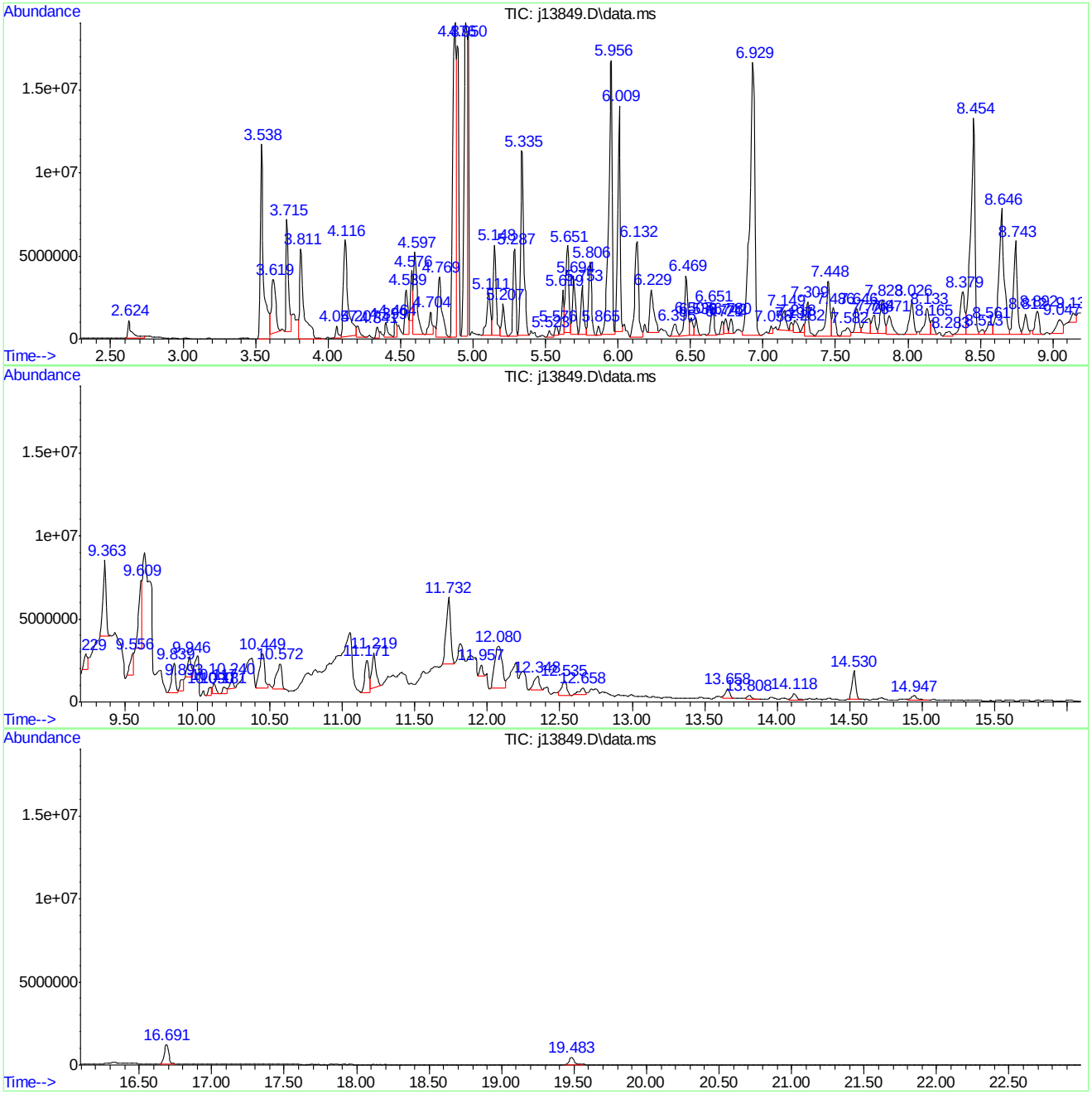


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

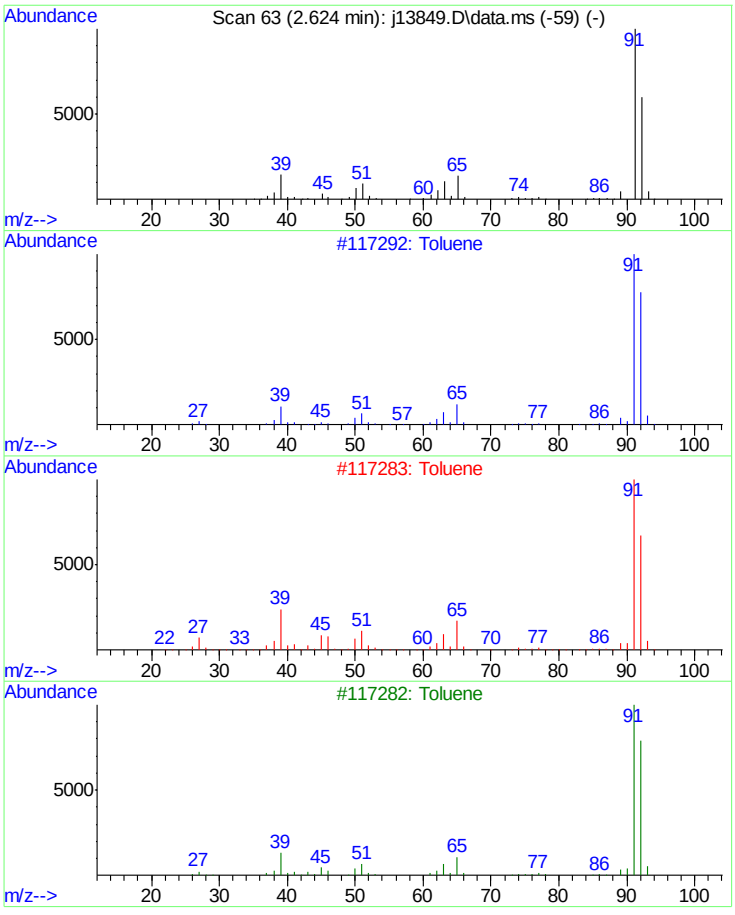
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

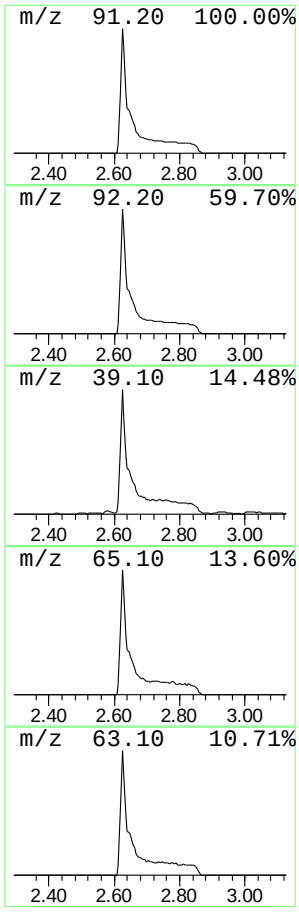
****

Peak Number 1 Toluene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.624	38.14 ug/ml	2078840	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	91
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	87
5	2,5-Norbornadiene	92	C7H8	000121-46-0	83





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

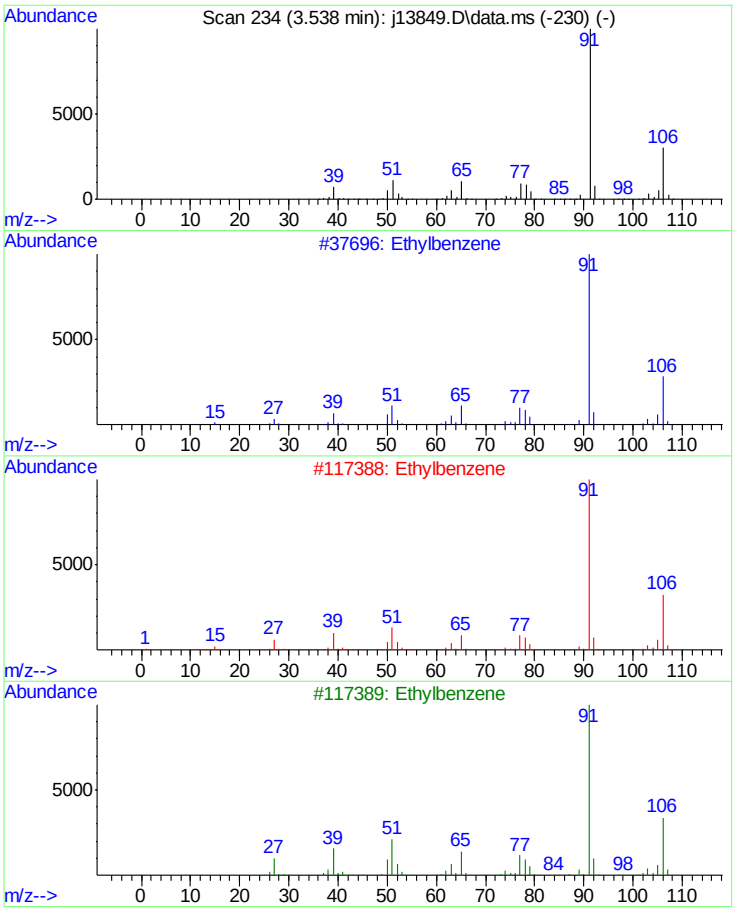
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

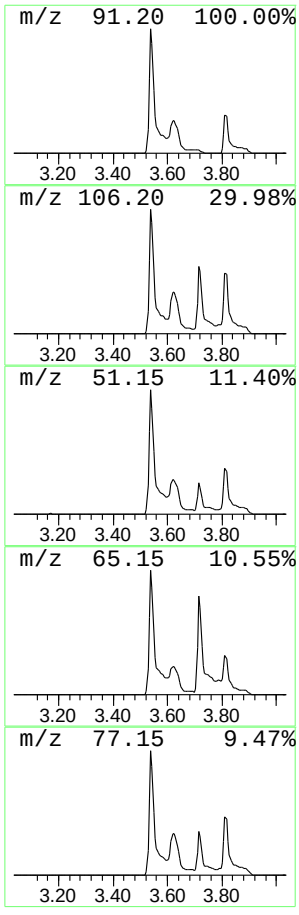
****

Peak Number 2 Ethylbenzene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.538	332.87 ug/ml	18143500	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	95
2	Ethylbenzene	106	C8H10	000100-41-4	94
3	Ethylbenzene	106	C8H10	000100-41-4	91
4	1,3-Cyclopentadiene, 5-(1-methyl...	106	C8H10	002175-91-9	74
5	1,3-Cyclopentadiene, 5-(1-methyl...	106	C8H10	002175-91-9	72





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

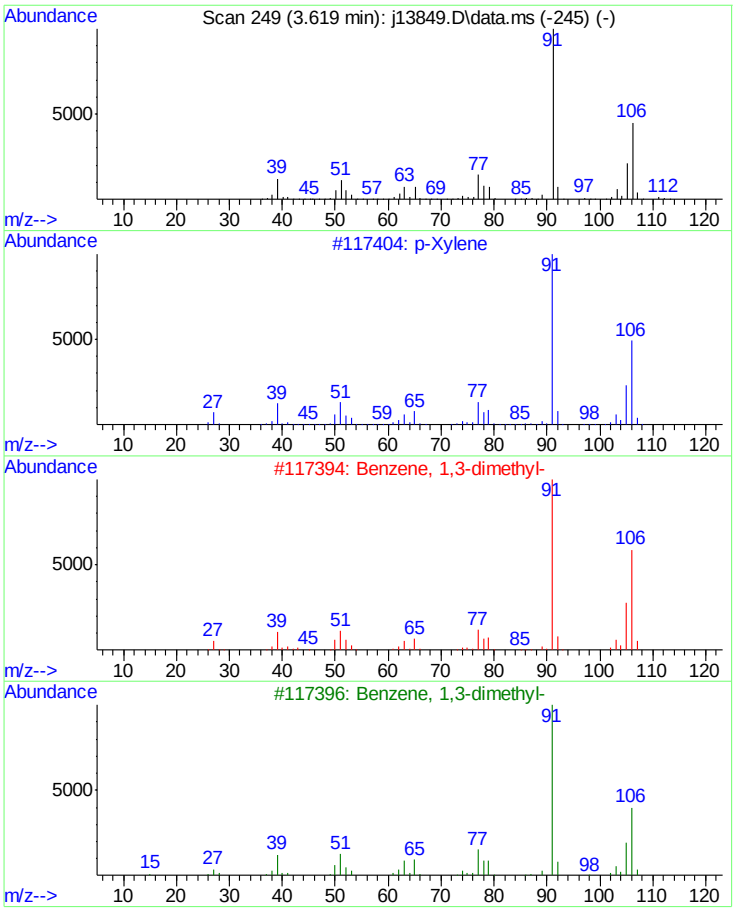
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

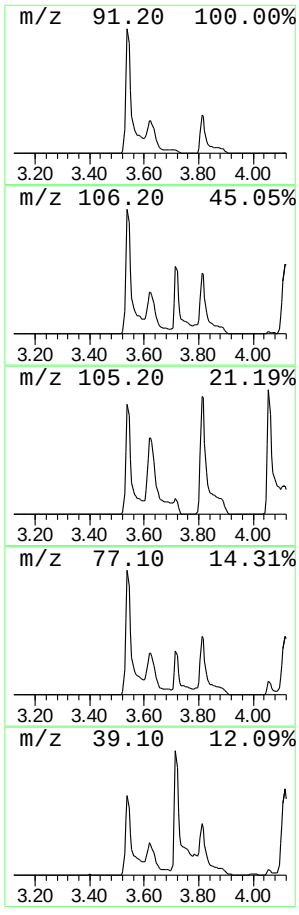
****

Peak Number 3 p-Xylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.619	121.92 ug/ml	6645200	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
4	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	97
5	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

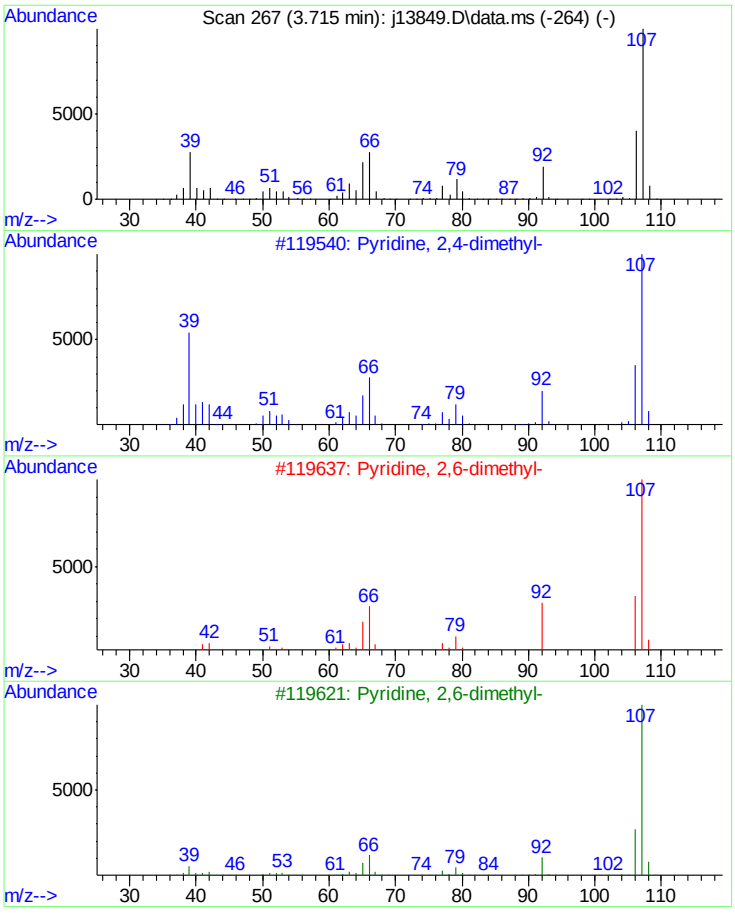
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

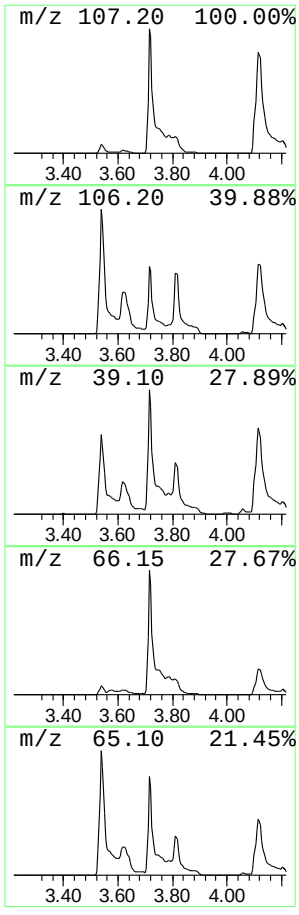
****

Peak Number 4 Pyridine, 2,4-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.715	141.40 ug/ml	7707230	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	93
2	Pyridine, 2,6-dimethyl-	107	C7H9N	000108-48-5	91
3	Pyridine, 2,6-dimethyl-	107	C7H9N	000108-48-5	91
4	Pyridine, 2,6-dimethyl-	107	C7H9N	000108-48-5	90
5	Pyridine, 2,6-dimethyl-	107	C7H9N	000108-48-5	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

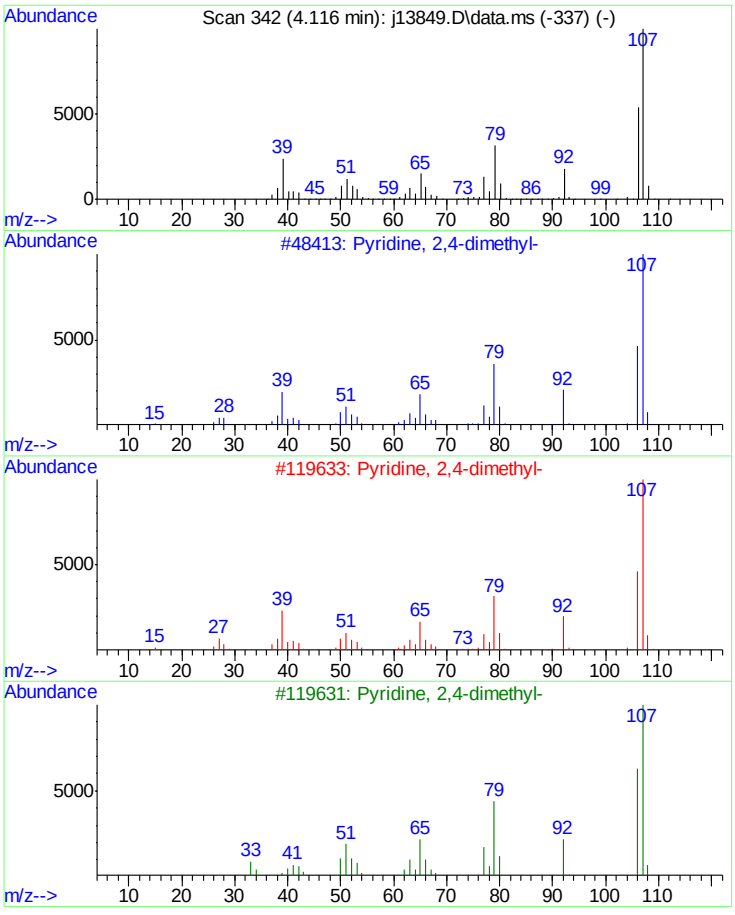
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

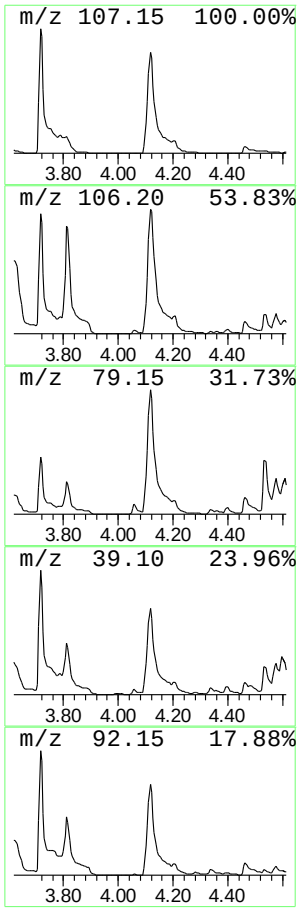
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Pyridine, 3,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.116	231.87 ug/ml	12638400	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	97
2	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	96
3	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	96
4	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	96
5	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	94





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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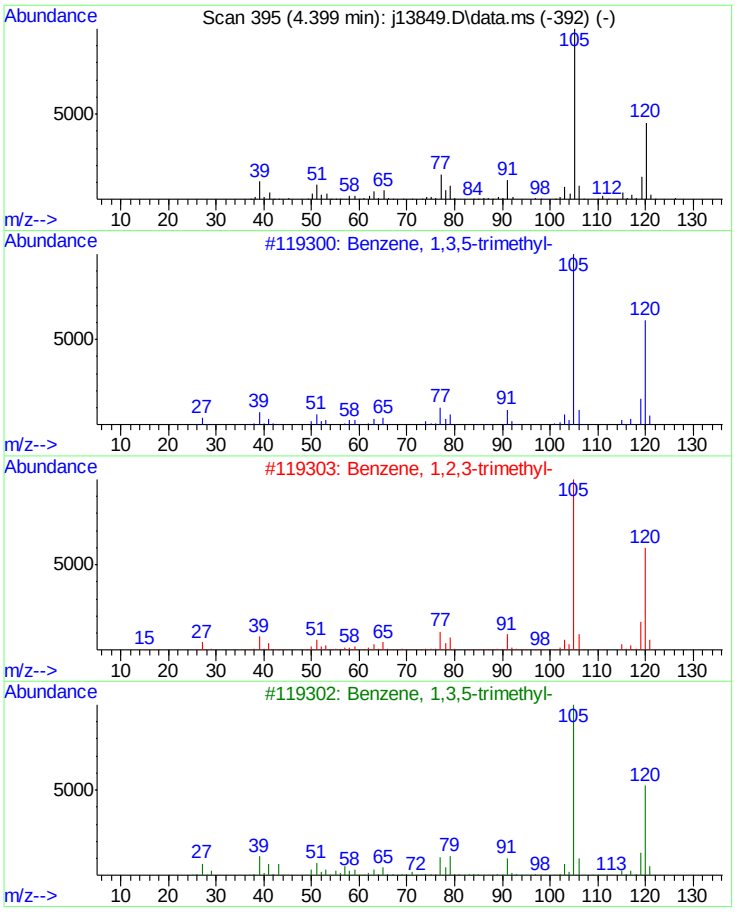
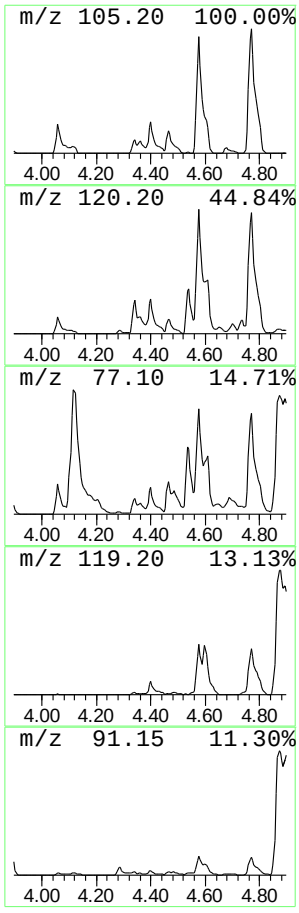
****

Peak Number 6 Benzene, 1,3,5-trimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.399	23.33 ug/ml	1271740	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

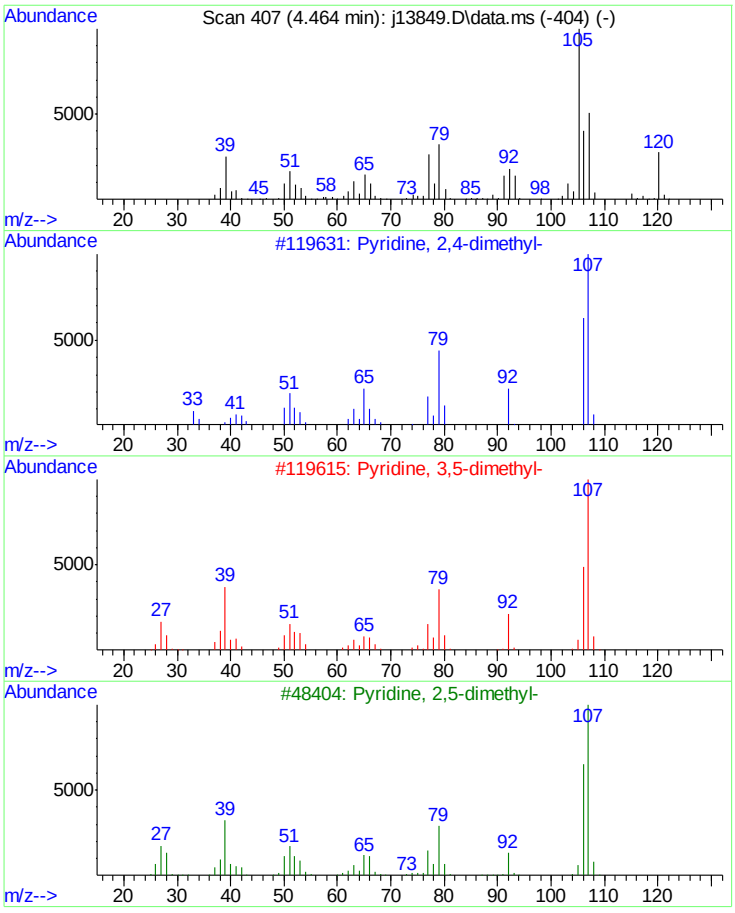
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

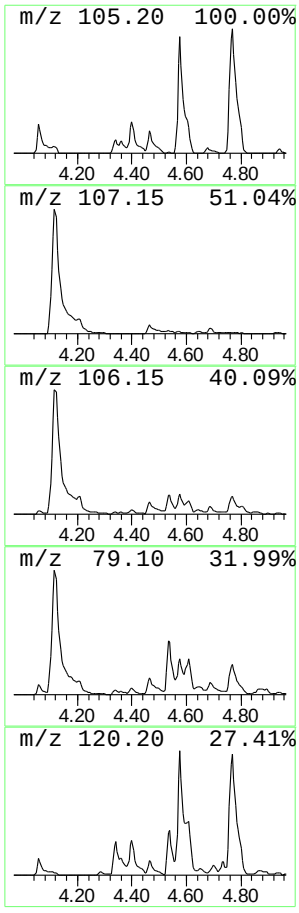
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Pyridine, 2,4-dimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.464	20.48 ug/ml	1116040	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	64
2	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	55
3	Pyridine, 2,5-dimethyl-	107	C7H9N	000589-93-5	55
4	Pyridine, 4-ethyl-	107	C7H9N	000536-75-4	55
5	Pyridine, 4-ethyl-	107	C7H9N	000536-75-4	55





Library Search Compound Report

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Data File : j13849.D
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Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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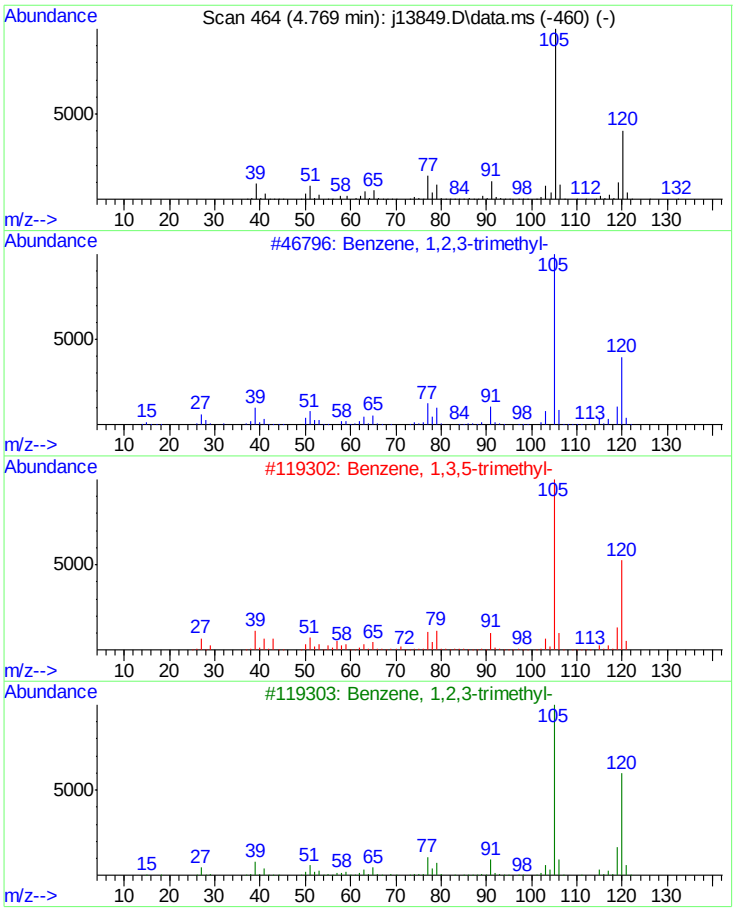
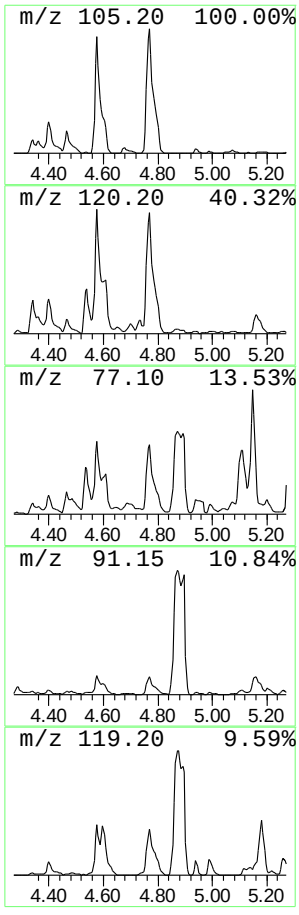
****

Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.769	125.03 ug/ml	6814810	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





8.1.13 8

ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

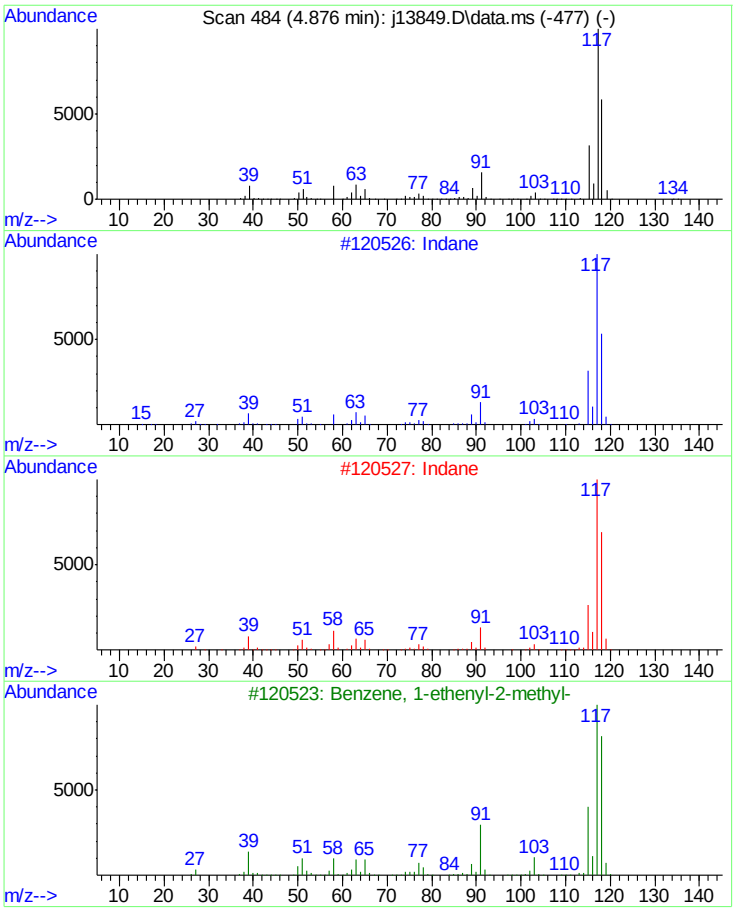
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

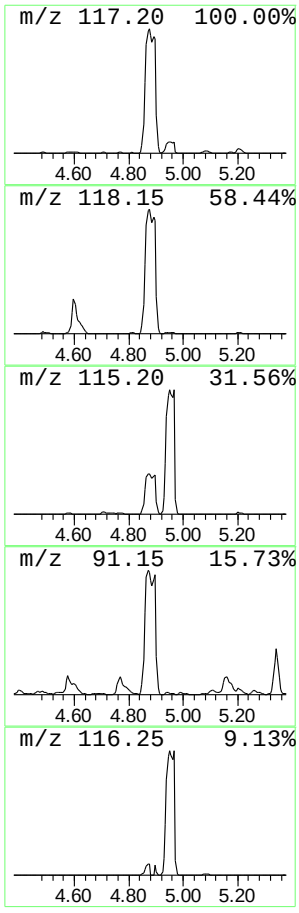
****

Peak Number 9 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.876	626.53 ug/ml	34150200	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Indane	118	C9H10	000496-11-7	87
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74
5	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	74





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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 10 p-Aminotoluene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.111	90.64 ug/ml	4940290	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Aminotoluene	107	C7H9N	000106-49-0	91
2	Benzenamine, 3-methyl-	107	C7H9N	000108-44-1	91
3	p-Aminotoluene	107	C7H9N	000106-49-0	91
4	Aniline, N-methyl-	107	C7H9N	000100-61-8	90
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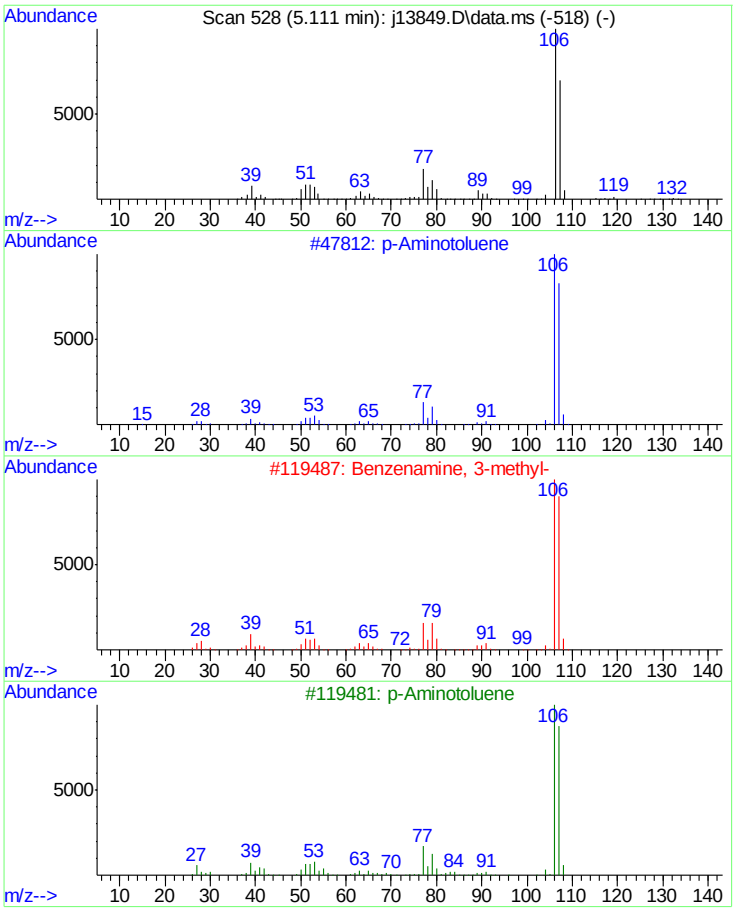

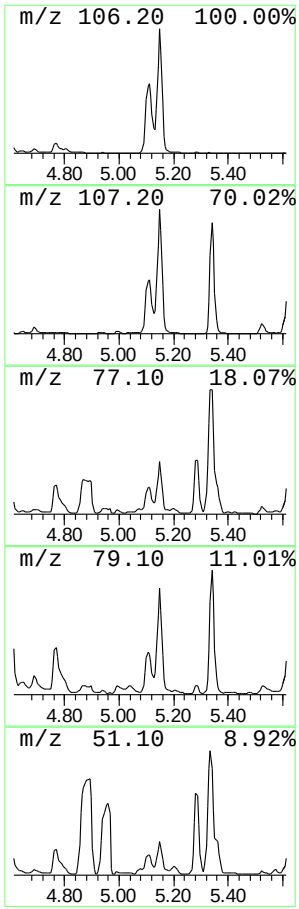

Library Search Compound Report

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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 11 Benzenamine, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.148	133.68 ug/ml	7286480	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 3-methyl-	107	C7H9N	000108-44-1	97
2	Benzenamine, 3-methyl-	107	C7H9N	000108-44-1	95
3	Benzenamine, 3-methyl-	107	C7H9N	000108-44-1	94
4	Benzenamine, 2-methyl-	107	C7H9N	000095-53-4	91
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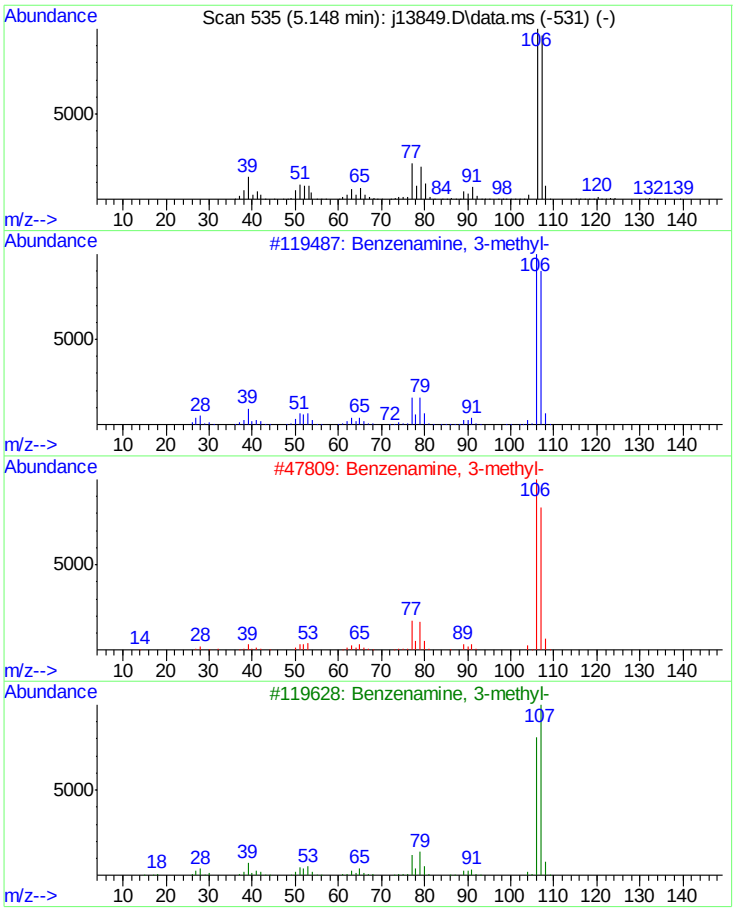

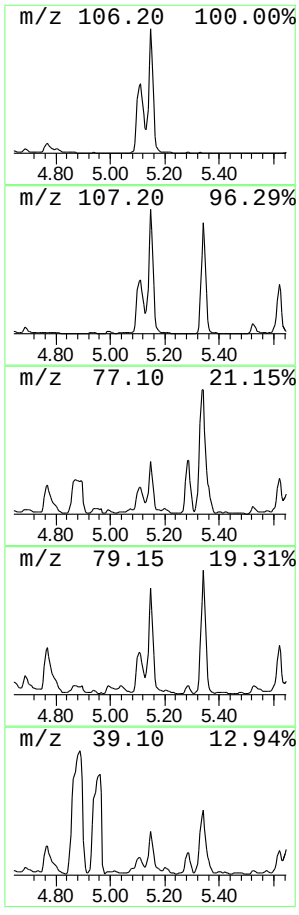

Library Search Compound Report

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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

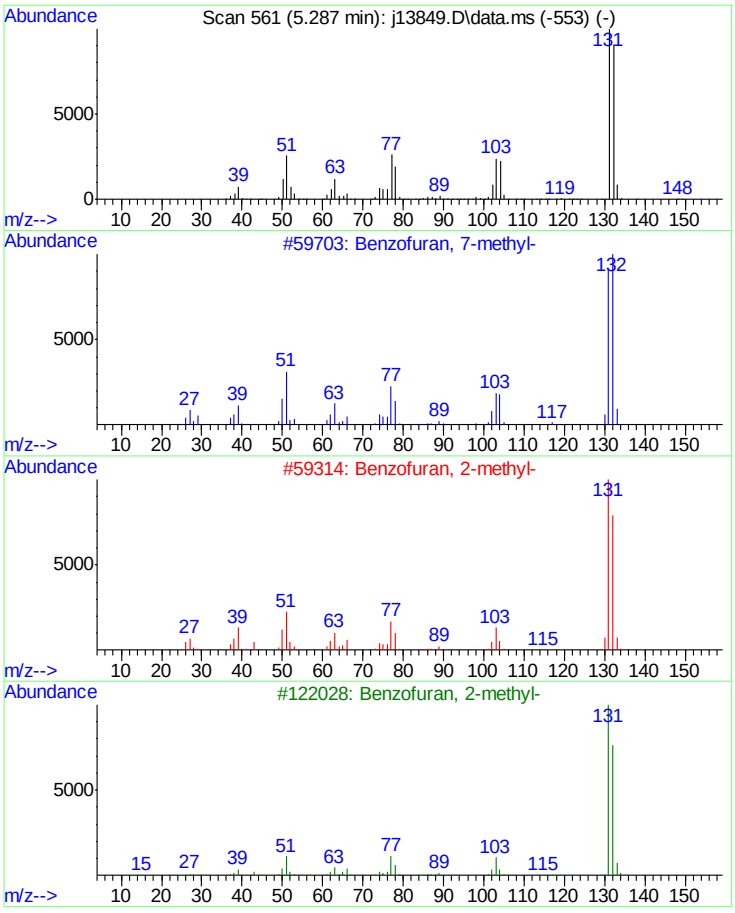
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

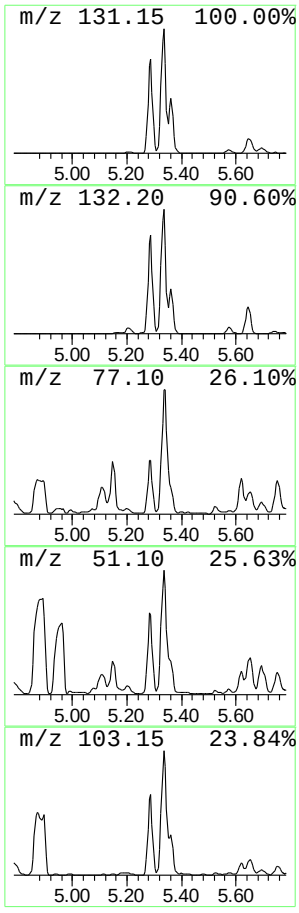
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Benzofuran, 7-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.287	119.93 ug/ml	6536750	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	94
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	94
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
4	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
5	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91





Library Search Compound Report

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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

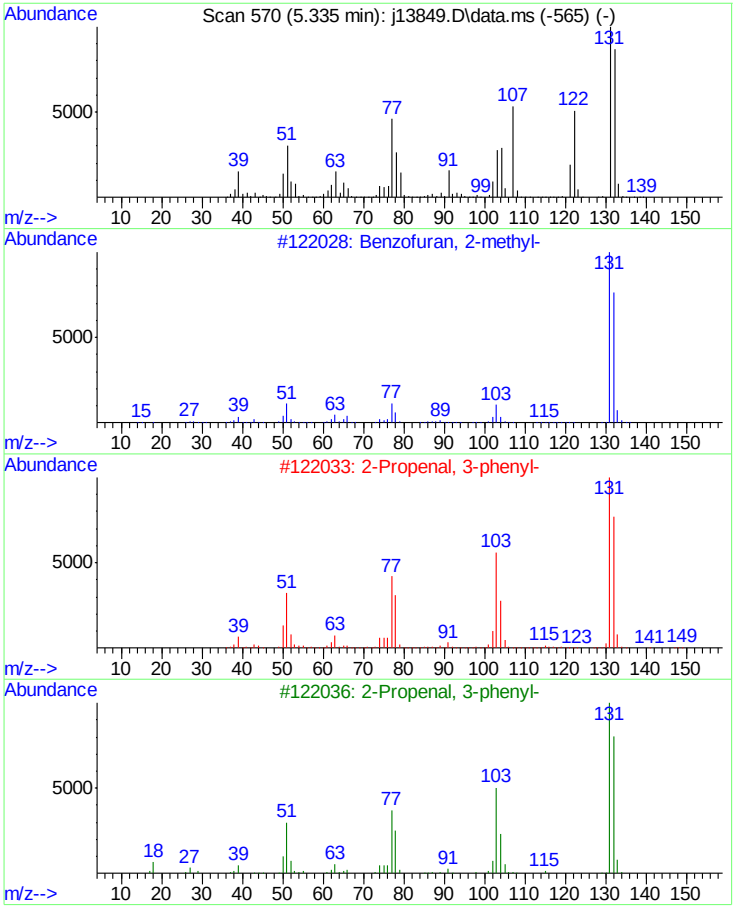
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

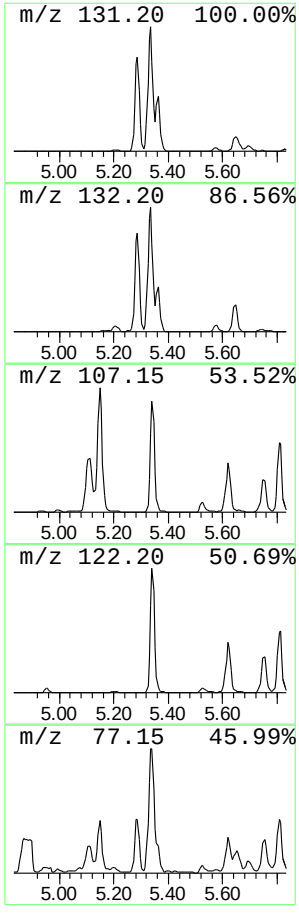
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Benzofuran, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.335	25.21 ug/ml	17771900	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	89
2	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	86
3	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	86
4	Cinnamaldehyde, (E)-	132	C9H8O	014371-10-9	70
5	Benzenemethanol, .alpha.-ethynyl-	132	C9H8O	004187-87-5	68





Library Search Compound Report

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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

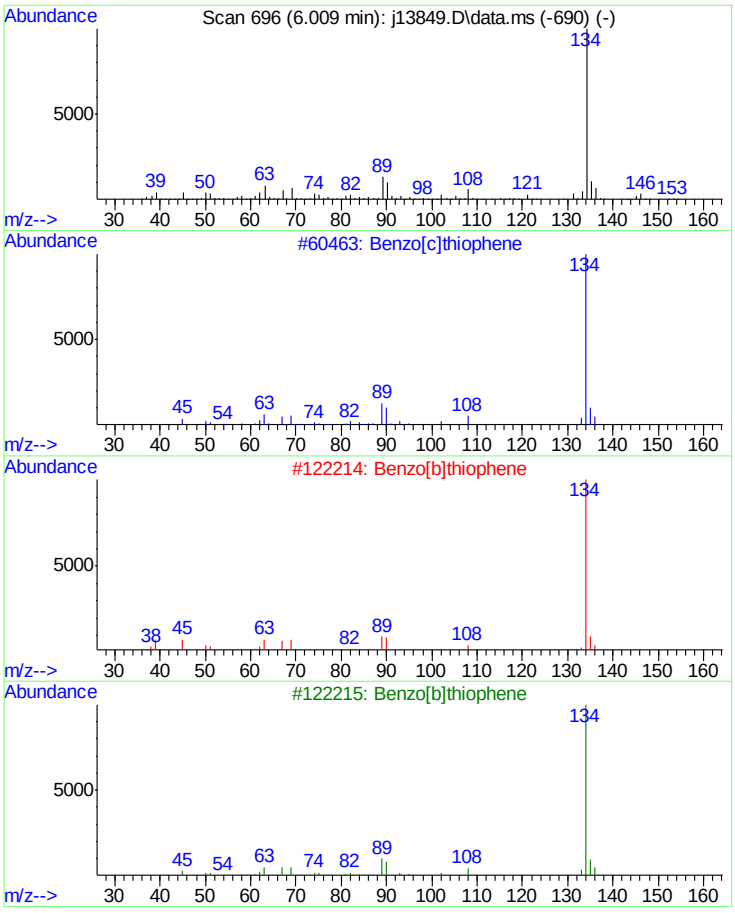
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

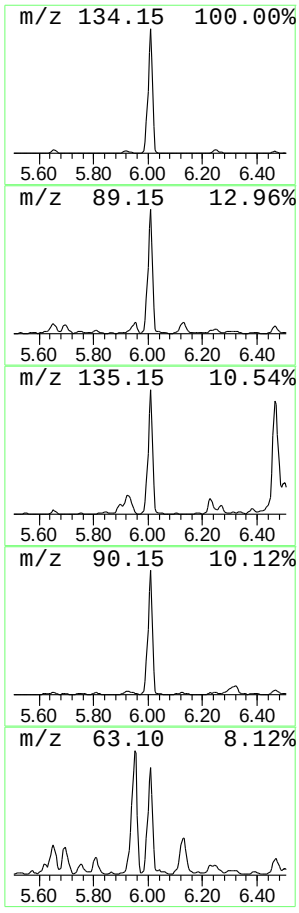
****

Peak Number 14 Benzo[c]thiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.009	23.91 ug/ml	16855100	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]thiophene	134	C8H6S	000270-82-6	97
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
5	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	94





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Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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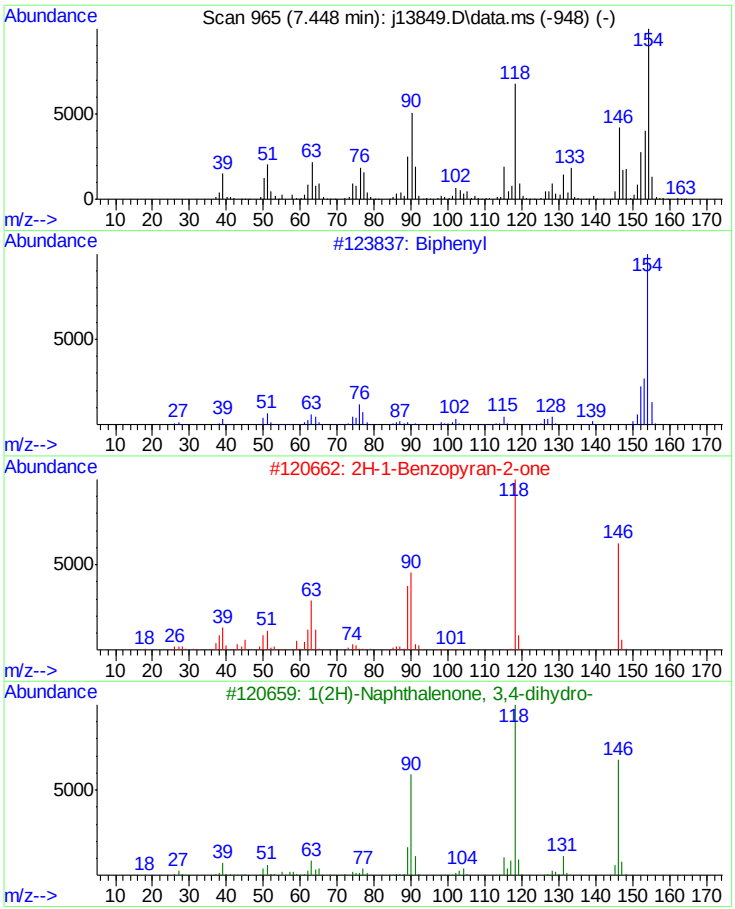
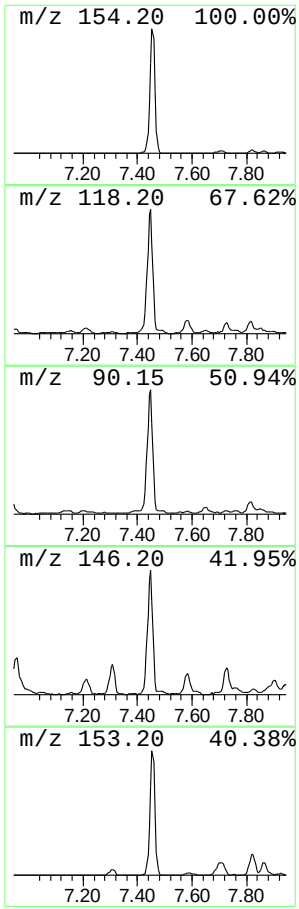
Peak Number 15 Biphenyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.448	47.54 ug/ml	6679380	Acenaphthene-d10	8.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl	154	C12H10	000092-52-4	80
2	2H-1-Benzopyran-2-one	146	C9H6O2	000091-64-5	42
3	1(2H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000529-34-0	42
4	1(2H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000529-34-0	42
5	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	42





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Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

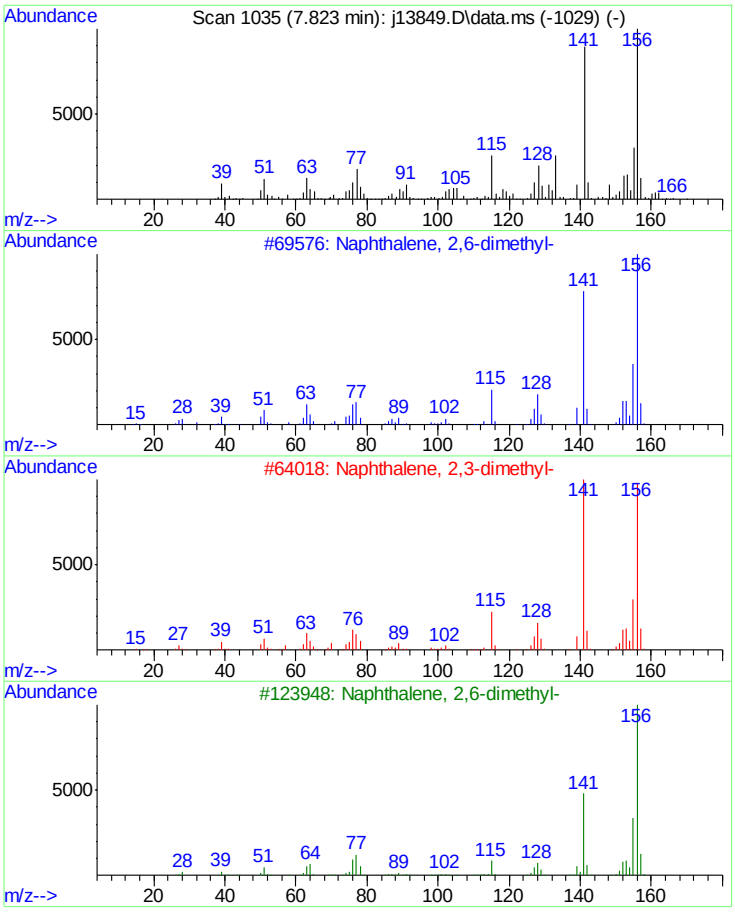
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

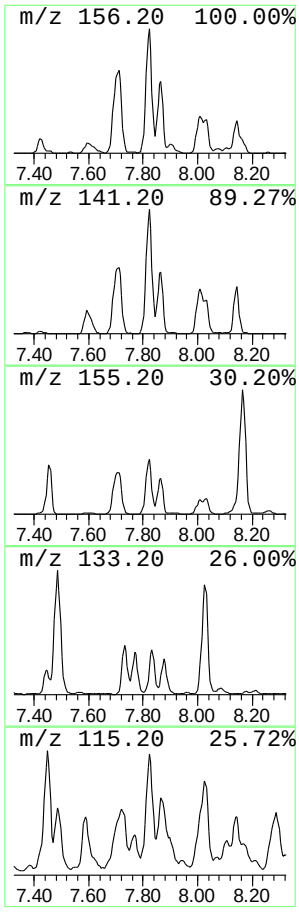
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Naphthalene, 2,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.823	28.90 ug/ml	4059940	Acenaphthene-d10	8.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





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Acq On    : 15 Oct 2009   4:49 pm
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Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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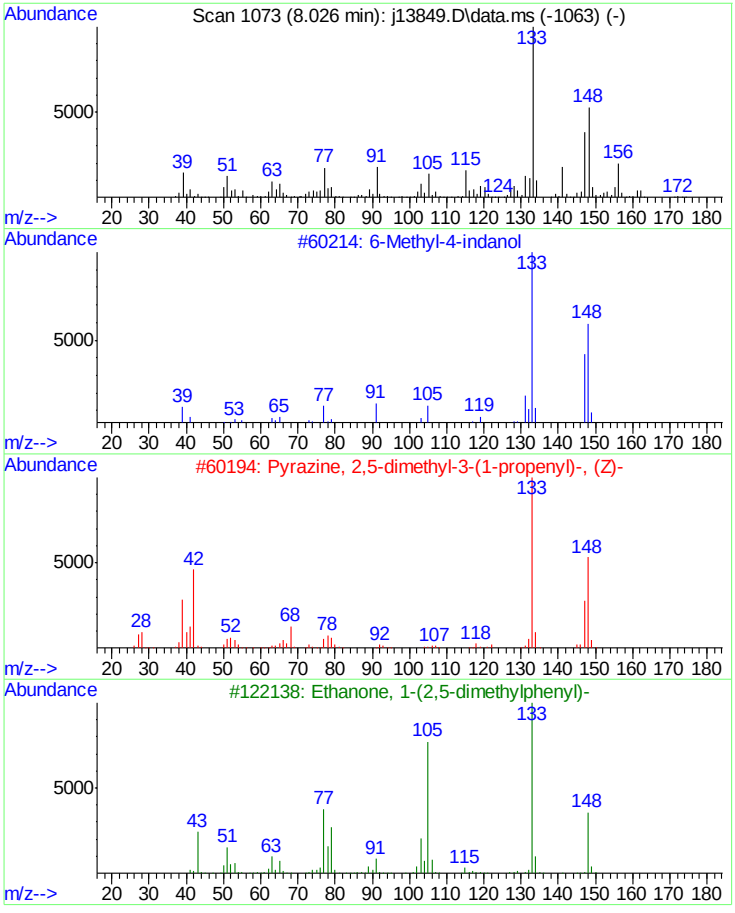
****

Peak Number 17 6-Methyl-4-indanol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.026	29.31 ug/ml	4118560	Acenaphthene-d10	8.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-4-indanol	148	C10H12O	020294-32-0	91
2	Pyrazine, 2,5-dimethyl-3-(1-prop...	148	C9H12N2	055138-73-3	72
3	Ethanone, 1-(2,5-dimethylphenyl)-	148	C10H12O	002142-73-6	55
4	Benzene, pentamethyl-	148	C11H16	000700-12-9	53
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	53



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Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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Peak Number 18 1-Naphthalenol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.646	135.43 ug/ml	19026500	Acenaphthene-d10	8.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	93
3	2-Naphthalenol	144	C10H8O	000135-19-3	93
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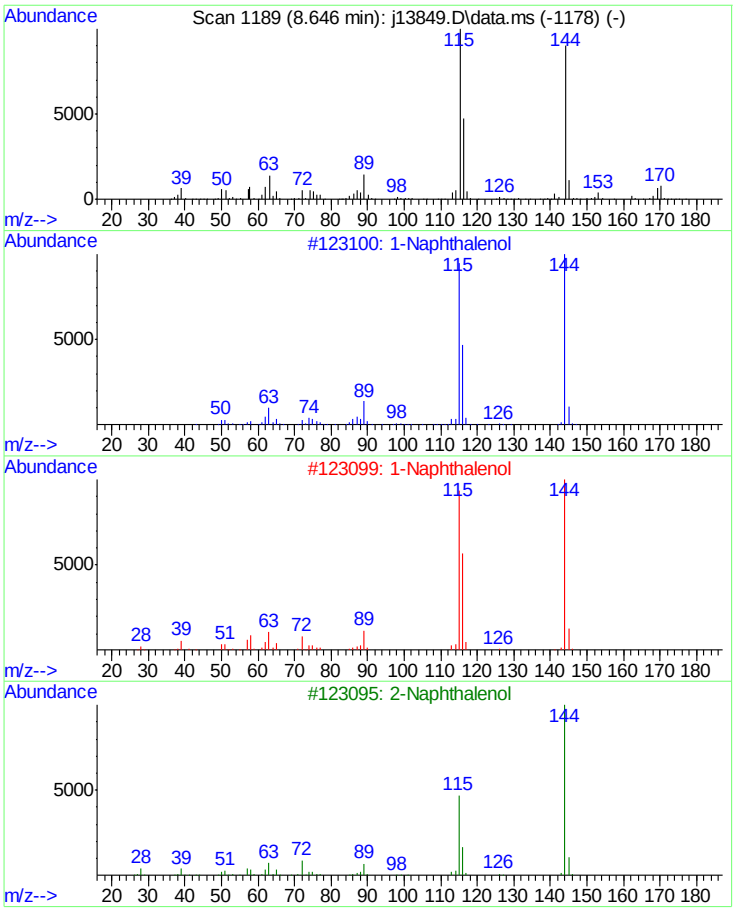
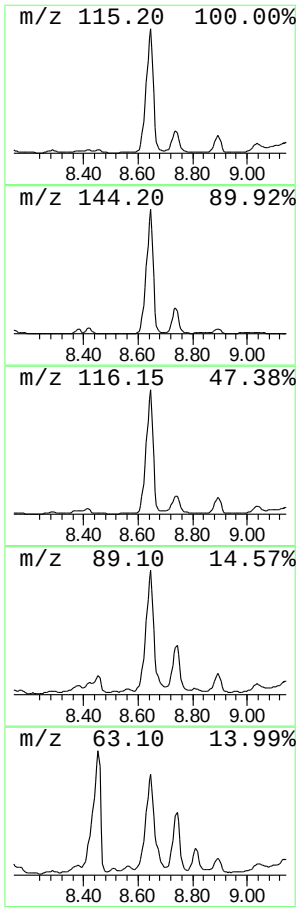




Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

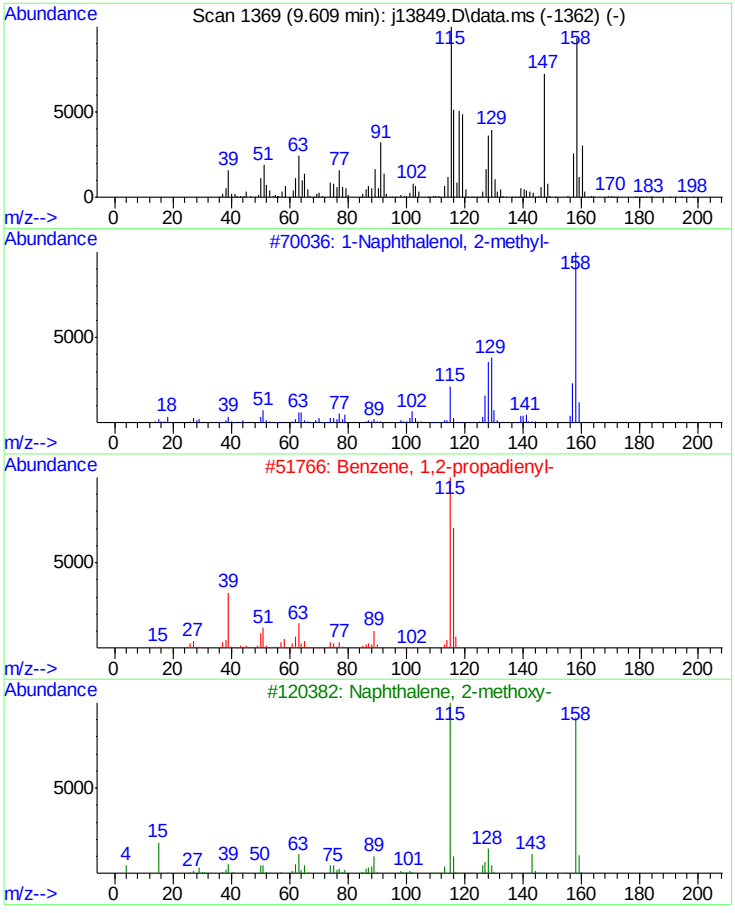
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

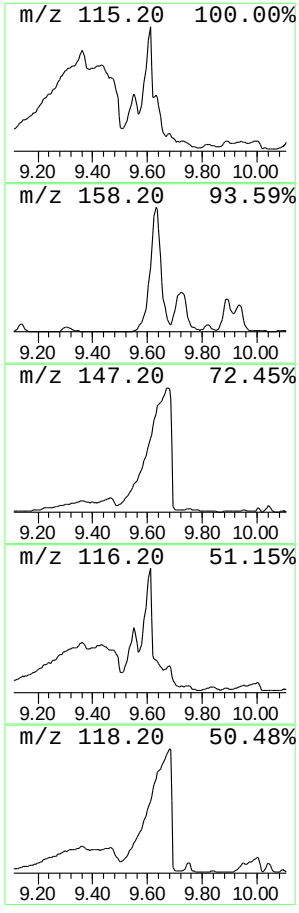
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 1-Naphthalenol, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.609	42.04 ug/ml	5905730	Acenaphthene-d10	8.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol, 2-methyl-	158	C11H10O	007469-77-4	78
2	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	47
3	Naphthalene, 2-methoxy-	158	C11H10O	000093-04-9	46
4	Naphthalene, 2-methoxy-	158	C11H10O	000093-04-9	42
5	Naphthalene, 2-methoxy-	158	C11H10O	000093-04-9	42





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

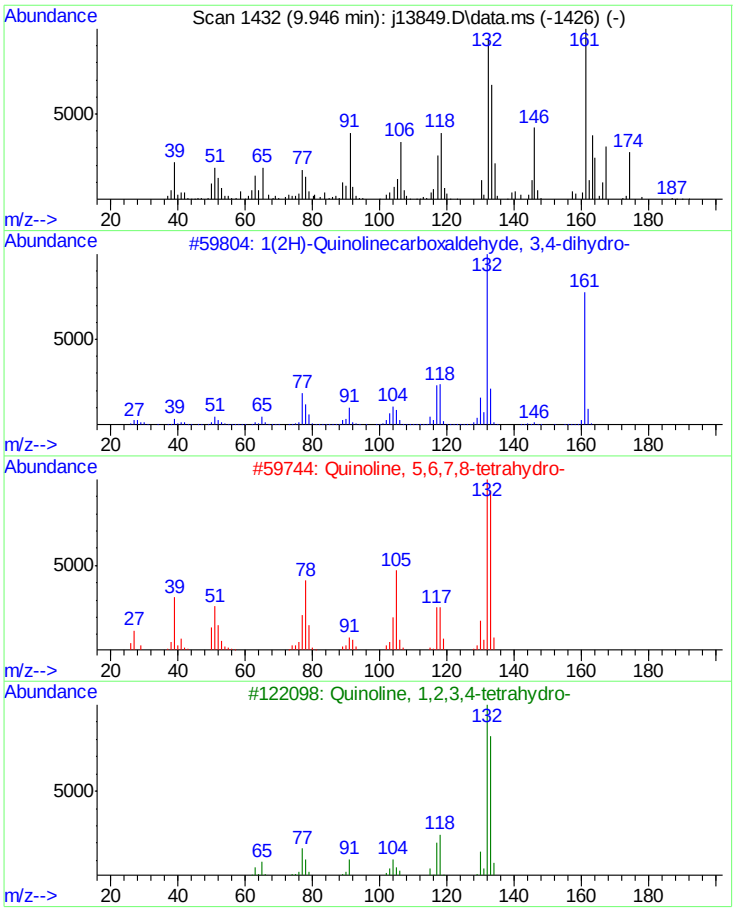
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

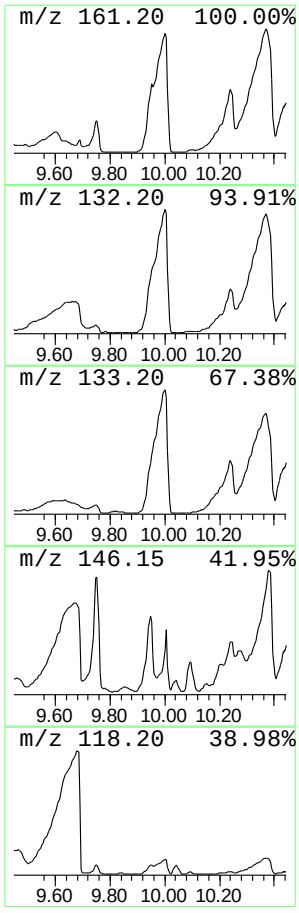
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 1(2H)-Quinolinecarboxaldehy... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.946	23.24 ug/ml	2327850	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Quinolinecarboxaldehyde, 3...	161	C10H11NO	002739-16-4	43
2	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	25
3	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	25
4	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	25
5	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	25





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

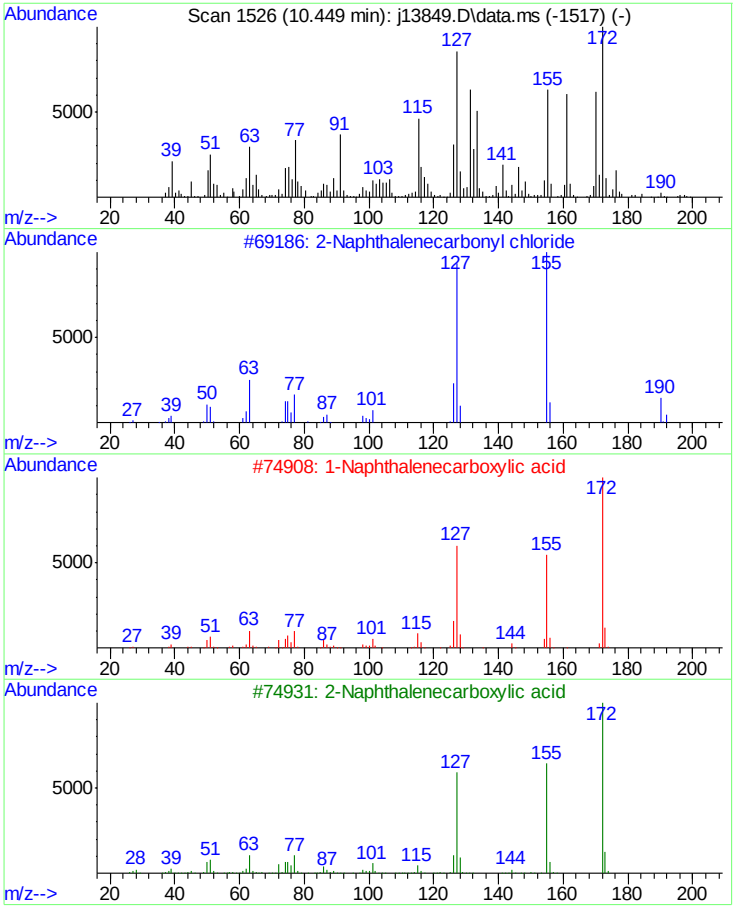
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

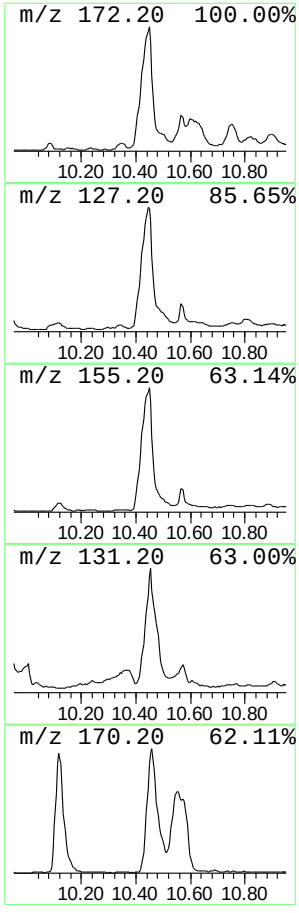
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 2-Naphthalenecarbonyl chloride Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.449	51.02 ug/ml	5109970	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonyl chloride	190	C11H7ClO	002243-83-6	78
2	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	66
3	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	60
4	1-Naphthalenecarbonyl chloride	190	C11H7ClO	000879-18-5	59
5	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	52





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number 22  1(2H)-Quinolinecarboxaldehy...  Concentration Rank 16

  R.T.     EstConc          Area       Relative to ISTD         R.T.
----------------------------------------------------------------------
 10.572   37.96 ug/ml     3802260   Phenanthrene-d10           11.166

 Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
----------------------------------------------------------------------
 1 1(2H)-Quinolinecarboxaldehyde, 3... 161 C10H11NO       002739-16-4 52
 2 Cyclopropanamine, 2-phenyl-, tra... 133 C9H11N         000155-09-9 45
 3 Quinoline, 1,2,3,4-tetrahydro-      133 C9H11N         000635-46-1 45
 4 Quinoline, 1,2,3,4-tetrahydro-      133 C9H11N         000635-46-1 45
 5 1,4-Dihydrobenzo[e][1,2,4]triaze... 161 C8H7N3O        057711-25-8 43
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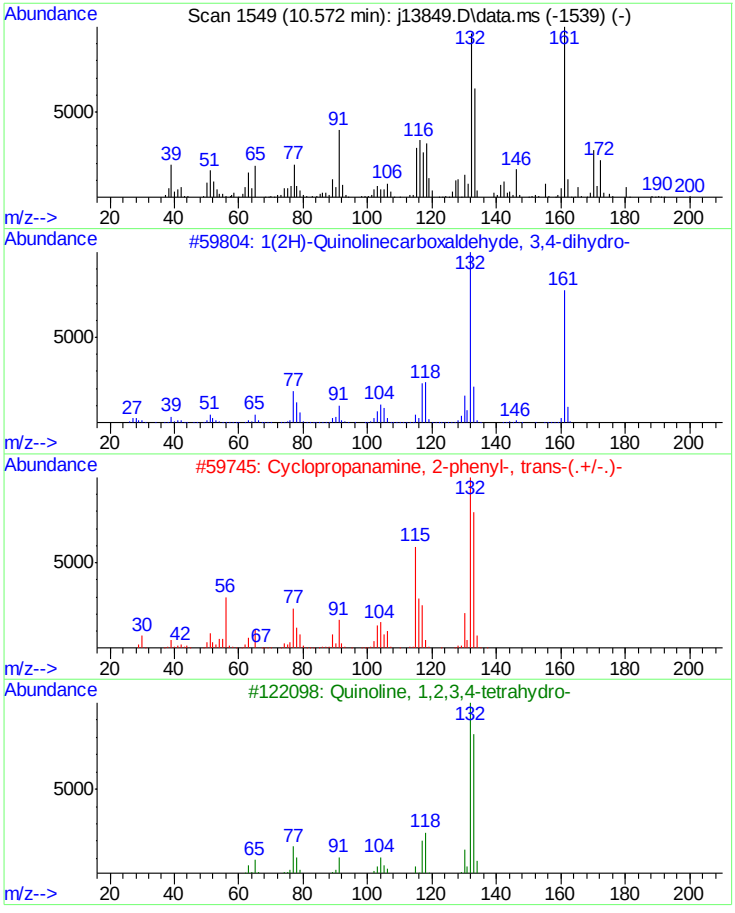

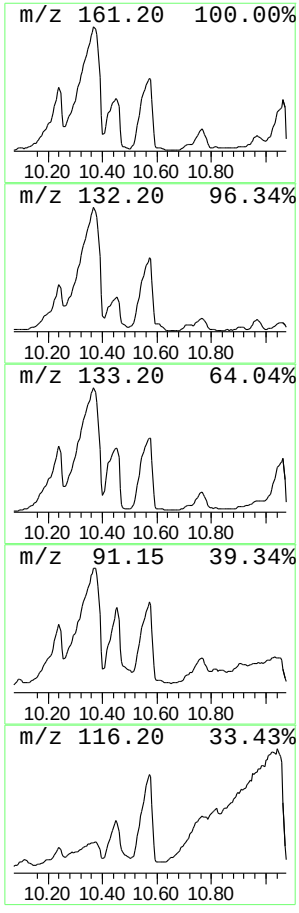

Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

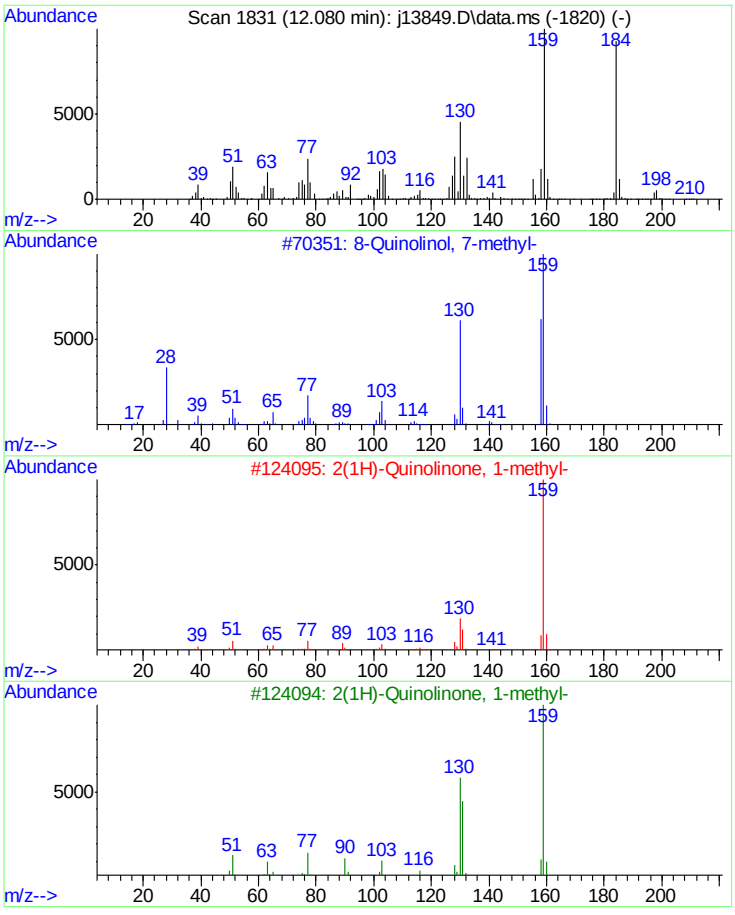
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

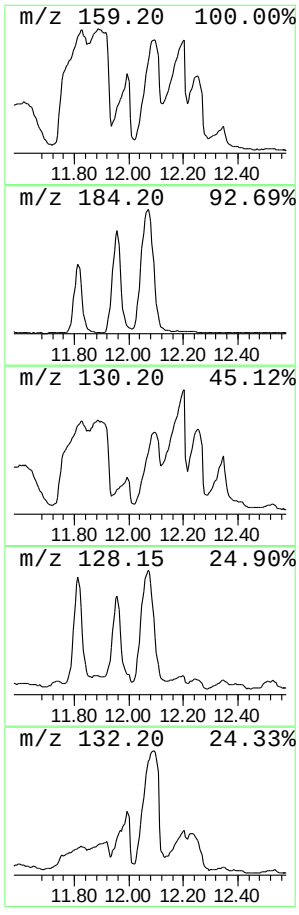
****

Peak Number 23 8-Quinolinol, 7-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.080	92.80 ug/ml	9294410	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Quinolinol, 7-methyl-	159	C10H9NO	005541-68-4	46
2	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	43
3	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	43
4	4(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000083-54-5	43
5	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	42





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On    : 15 Oct 2009   4:49 pm
Operator  : sheilac
Sample    : t39646-4
Misc      : op13250,Ej635,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

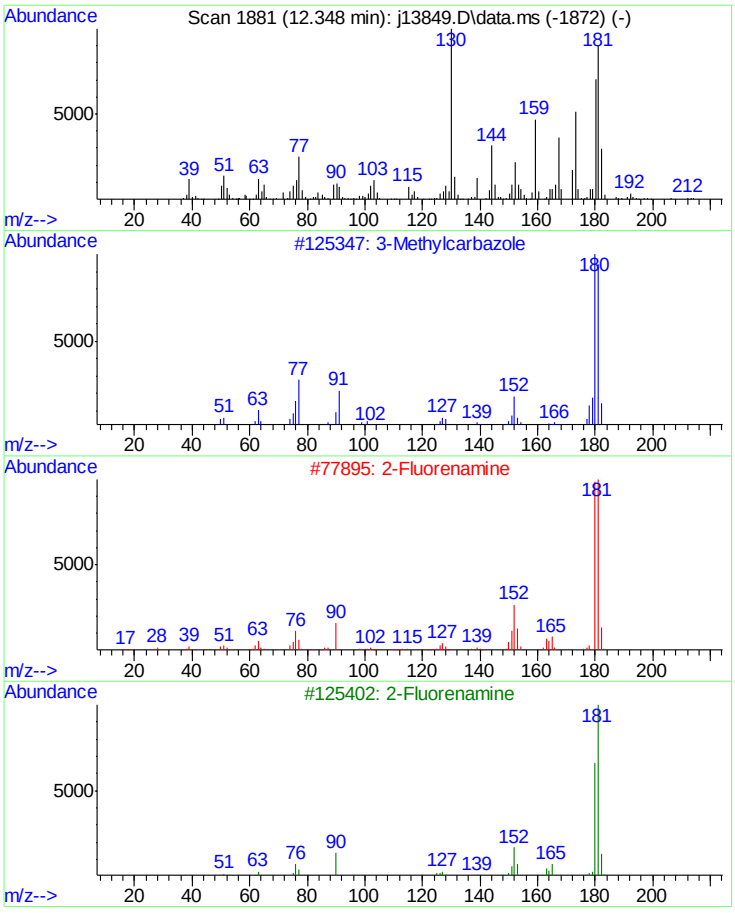
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

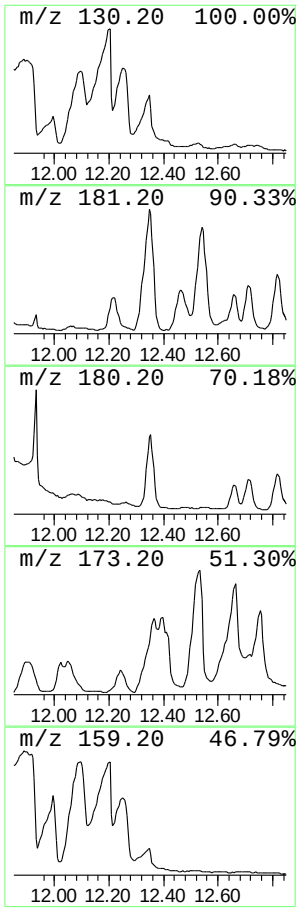
****

Peak Number 24 3-Methylcarbazole Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.348	20.67 ug/ml	2070030	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	51
2	2-Fluorenamine	181	C13H11N	000153-78-6	42
3	2-Fluorenamine	181	C13H11N	000153-78-6	38
4	9H-Xanthene	182	C13H10O	000092-83-1	35
5	Pyridine, 4-(2-phenylethenyl)-	181	C13H11N	000103-31-1	30





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

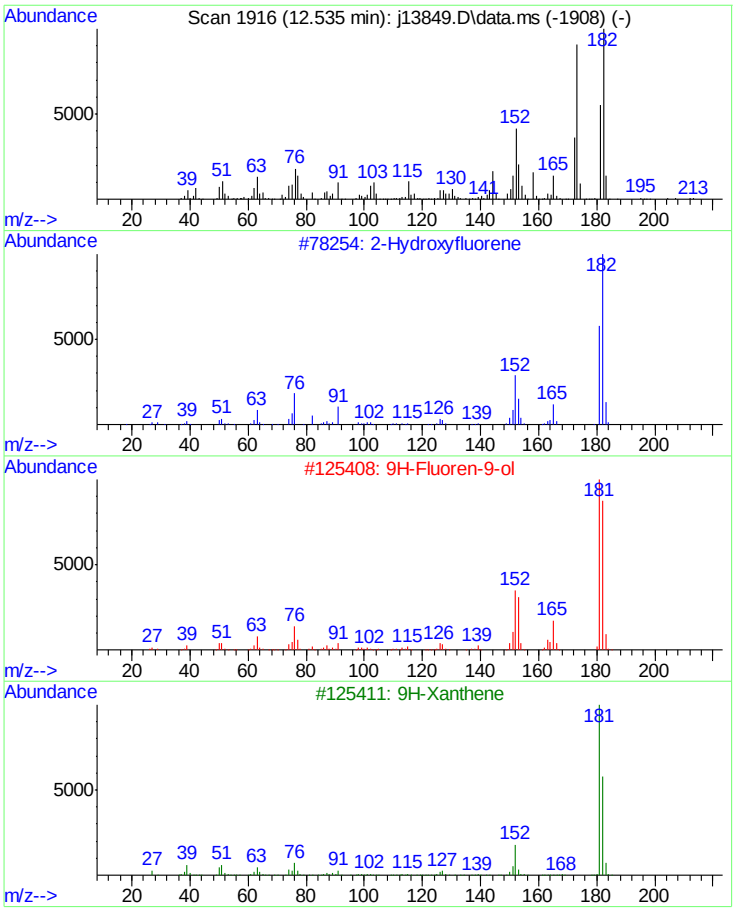
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

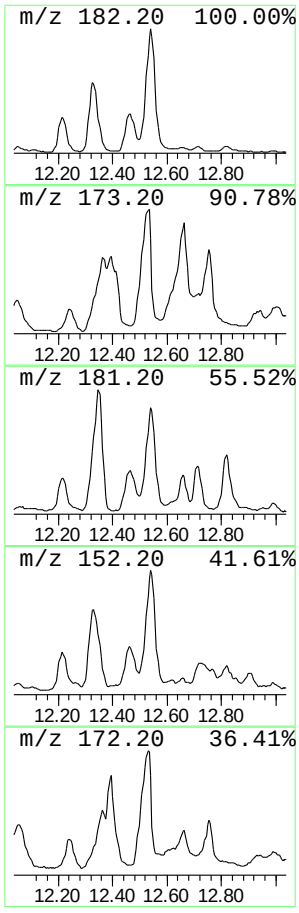
****

Peak Number 25 2-Hydroxyfluorene Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.535	22.51 ug/ml	2254020	Phenanthrene-d10	11.166

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hydroxyfluorene	182	C13H10O	002443-58-5	90
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	42
3	9H-Xanthene	182	C13H10O	000092-83-1	42
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	38
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	38





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13849.D
Acq On : 15 Oct 2009 4:49 pm
Operator : sheilac
Sample : t39646-4
Misc : op13250,Ej635,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Toluene	2.624	38.1	ug/ml	2078840	1	4.710	2180280	40.0
Ethylbenzene	3.538	332.9	ug/ml	18143500	1	4.710	2180280	40.0
p-Xylene	3.619	121.9	ug/ml	6645200	1	4.710	2180280	40.0
Pyridine, 2,4-d...	3.715	141.4	ug/ml	7707230	1	4.710	2180280	40.0
Pyridine, 3,5-d...	4.116	231.9	ug/ml	12638400	1	4.710	2180280	40.0
Benzene, 1,3,5-...	4.399	23.3	ug/ml	1271740	1	4.710	2180280	40.0
Pyridine, 2,4-d...	4.464	20.5	ug/ml	1116040	1	4.710	2180280	40.0
Benzene, 1,2,3-...	4.769	125.0	ug/ml	6814810	1	4.710	2180280	40.0
Indane	4.876	626.5	ug/ml	34150200	1	4.710	2180280	40.0
p-Aminotoluene	5.111	90.6	ug/ml	4940290	1	4.710	2180280	40.0
Benzenamine, 3-...	5.148	133.7	ug/ml	7286480	1	4.710	2180280	40.0
Benzofuran, 7-m...	5.287	119.9	ug/ml	6536750	1	4.710	2180280	40.0
Benzofuran, 2-m...	5.335	25.2	ug/ml	17771900	2	5.924	28196100	40.0
Benzo[c]thiophene	6.009	23.9	ug/ml	16855100	2	5.924	28196100	40.0
Biphenyl	7.448	47.5	ug/ml	6679380	3	8.374	5619770	40.0
Naphthalene, 2,...	7.823	28.9	ug/ml	4059940	3	8.374	5619770	40.0
6-Methyl-4-indanol	8.026	29.3	ug/ml	4118560	3	8.374	5619770	40.0
1-Naphthalenol	8.646	135.4	ug/ml	19026500	3	8.374	5619770	40.0
1-Naphthalenol,...	9.609	42.0	ug/ml	5905730	3	8.374	5619770	40.0
1(2H)-Quinoline...	9.946	23.2	ug/ml	2327850	4	11.166	4006070	40.0
2-Naphthaleneca...	10.449	51.0	ug/ml	5109970	4	11.166	4006070	40.0
1(2H)-Quinoline...	10.572	38.0	ug/ml	3802260	4	11.166	4006070	40.0
8-Quinolinol, 7...	12.080	92.8	ug/ml	9294410	4	11.166	4006070	40.0
3-Methylcarbazole	12.348	20.7	ug/ml	2070030	4	11.166	4006070	40.0
2-Hydroxyfluorene	12.535	22.5	ug/ml	2254020	4	11.166	4006070	40.0

Manual Integrations
APPROVED
(compounds with "m" flag)
Richard Rodriguez
10/20/09 08:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 11:26:11 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 16 11:09:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	554240	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.924	136	2145664	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.368	164	1093529	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1413014	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	900268	40.00	ug/ml	-0.07
80) Perylene-d12	19.472	264	548292	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	25941m	1.49	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery	=	1.49%#	
5) Phenol-d5 (SURR)	4.512	99	27976	1.29	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery	=	1.29%#	
21) Nitrobenzene-d5 (SURR)	5.207	82	17622	0.78	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	=	1.56%#	
40) 2-Fluorobiphenyl (SURR)	7.304	172	31868	0.75	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery	=	1.50%#	
62) 2,4,6-Tribromophenol (...	9.812	330	6174	1.30	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery	=	1.30%#	
74) Terphenyl-d14	14.508	244	19911	0.93	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	1.86%#	
Target Compounds						Qvalue
3) Pyridine	2.442	79	1298228m	78.97	ug/ml	
6) Phenol	4.523	94	13604412	578.30	ug/ml#	72
7) Aniline	4.480	93	846408	32.01	ug/ml#	41
14) 2-Methylphenol	4.977	108	2708963	164.27	ug/ml	97
16) 4-Methylphenol	5.138	108	7092460	406.54	ug/ml#	68
17) m+p-Cresols	5.138	108	7092460	406.54	ug/ml#	68
25) 2,4-Dimethylphenol	5.619	122	3758799	223.70	ug/ml	99
30) Naphthalene	5.951	128	6978689	119.42	ug/ml	99
34) 2-Methylnaphthalene	6.780	142	135823	3.80	ug/ml	98
35) 1-Methylnaphthalene	6.913	142	87270m	2.33	ug/ml	
47) Acenaphthene	8.416	154	51834	1.70	ug/ml	98

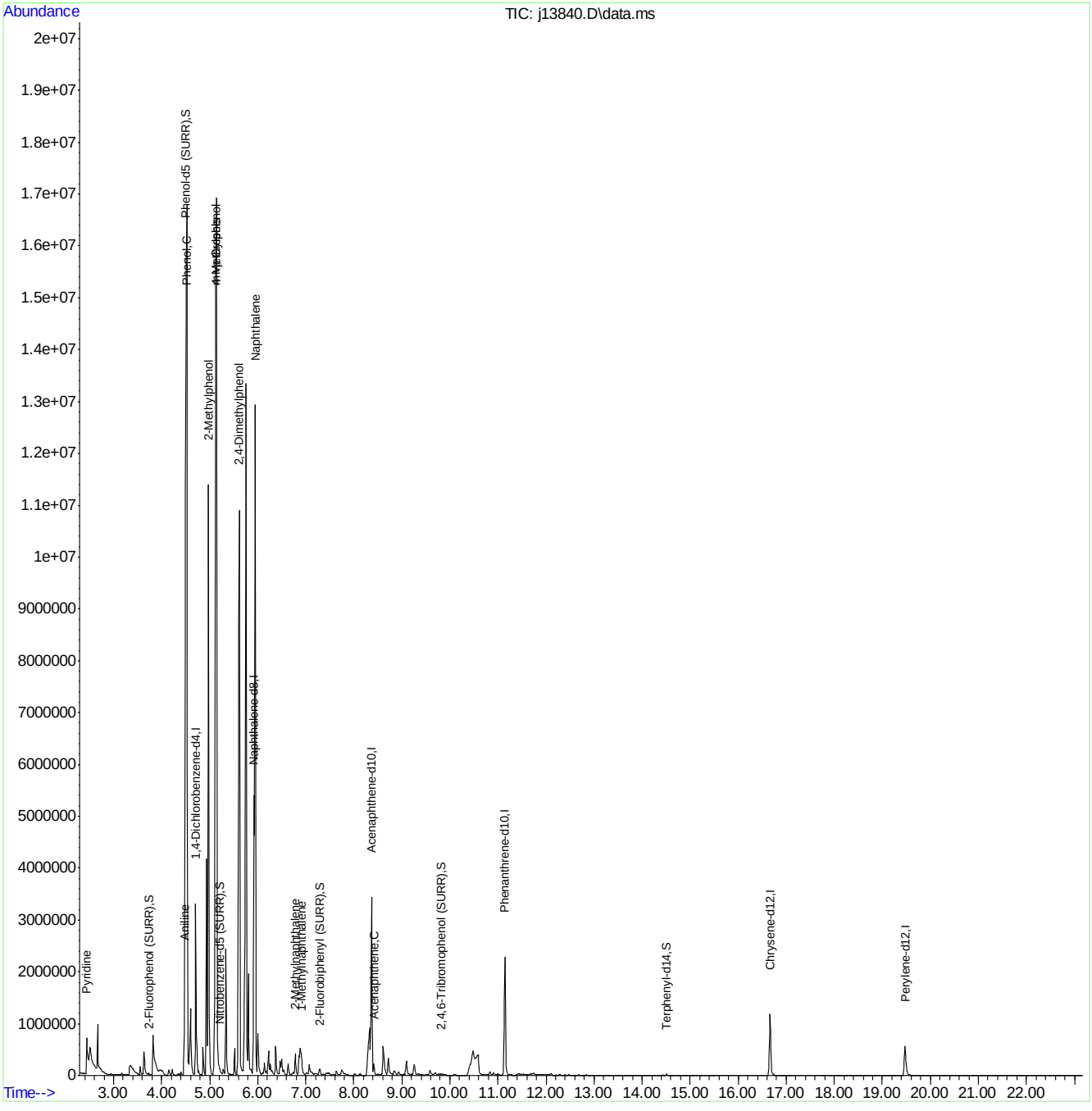
(#) = qualifier out of range (m) = manual integration (+) = signals summed

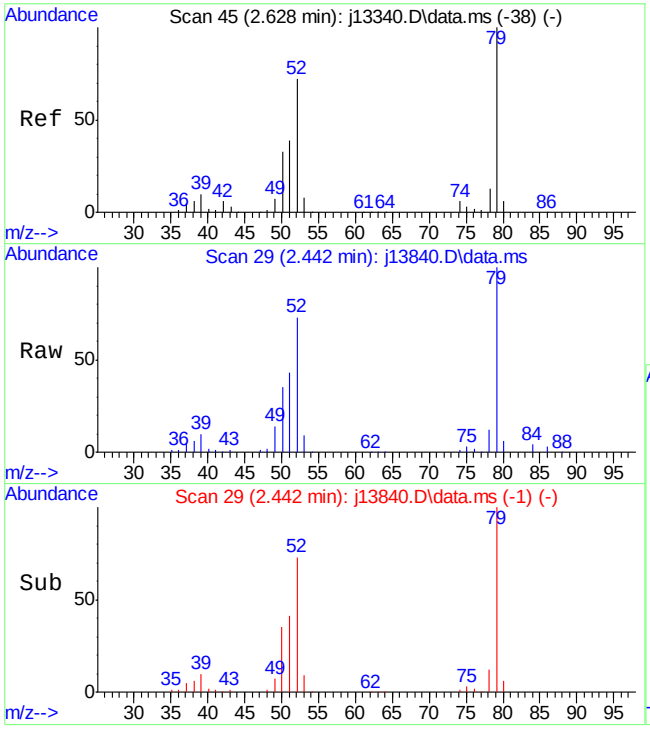
8.1.14
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 11:26:11 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 16 11:09:16 2009
Response via : Initial Calibration

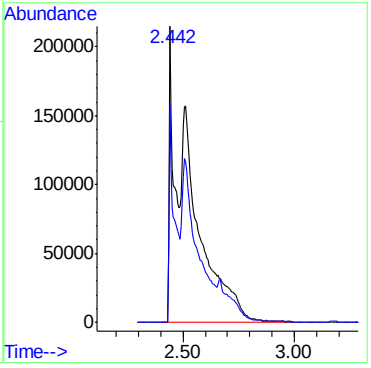


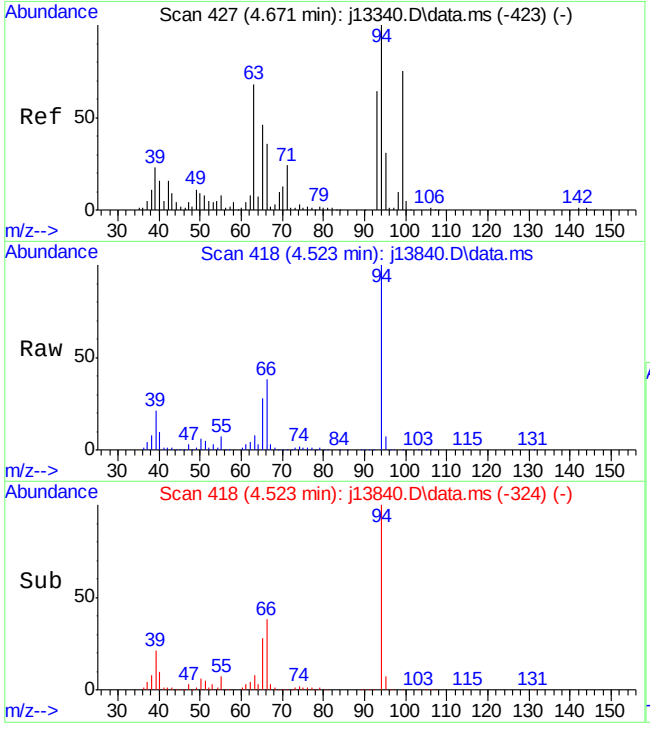


#3
Pyridine
Concen: 78.97 ug/ml m
RT: 2.442 min Scan# 29
Delta R.T. 0.010 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion: 79 Resp: 1298228

Ion	Ratio	Lower	Upper
79	100		
52	20.3	52.6	92.6#

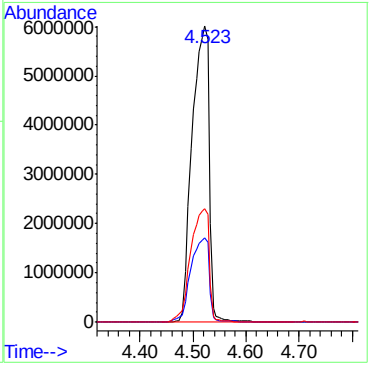




#6
Phenol
Concen: 578.30 ug/ml
RT: 4.523 min Scan# 418
Delta R.T. 0.004 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

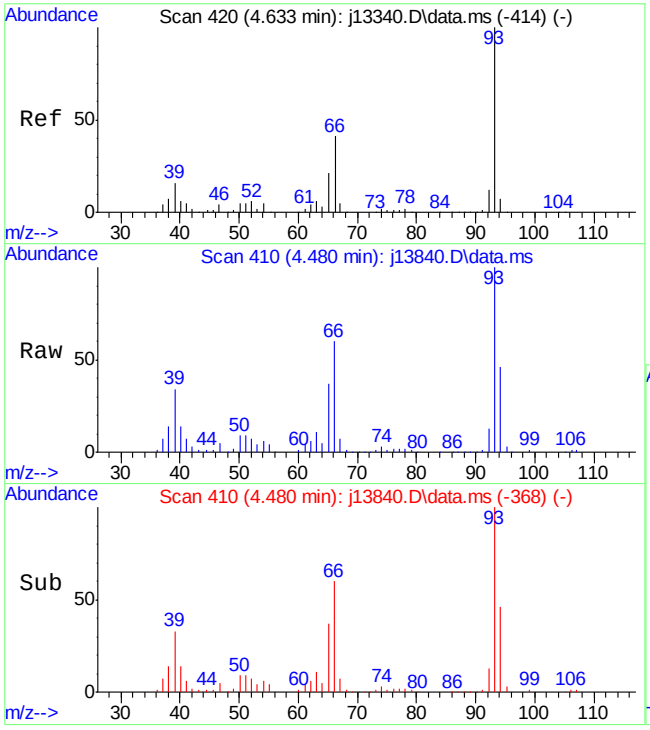
Tgt Ion: 94 Resp:13604412

Ion	Ratio	Lower	Upper
94	100		
65	30.8	35.3	75.3#
66	41.5	37.4	77.4



8.1.14

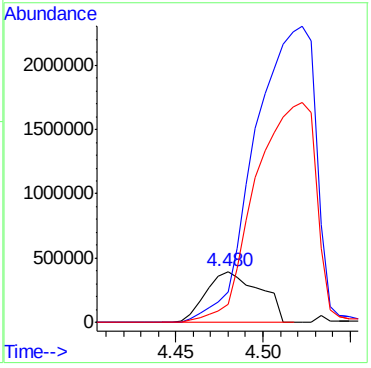
8

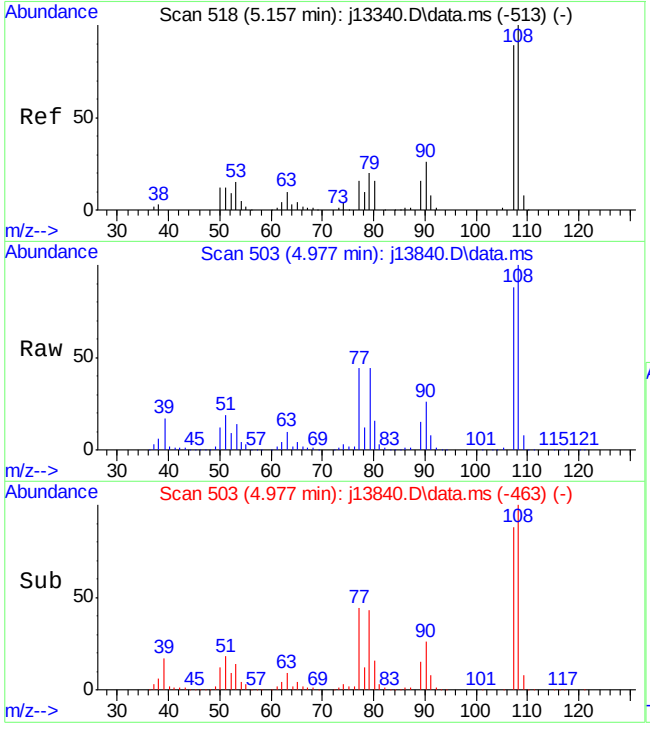


#7
Aniline
Concen: 32.01 ug/ml
RT: 4.480 min Scan# 410
Delta R.T. 0.025 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion: 93 Resp: 846408

Ion	Ratio	Lower	Upper
93	100		
66	0.0	21.2	61.2#
65	0.0	2.0	42.0#

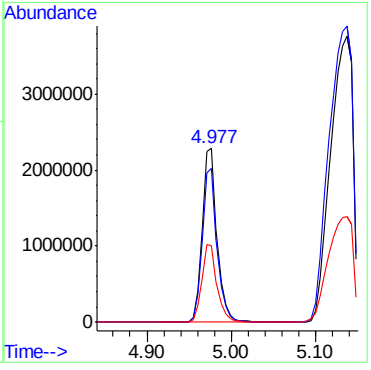




#14
2-Methylphenol
Concen: 164.27 ug/ml
RT: 4.977 min Scan# 503
Delta R.T. 0.016 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

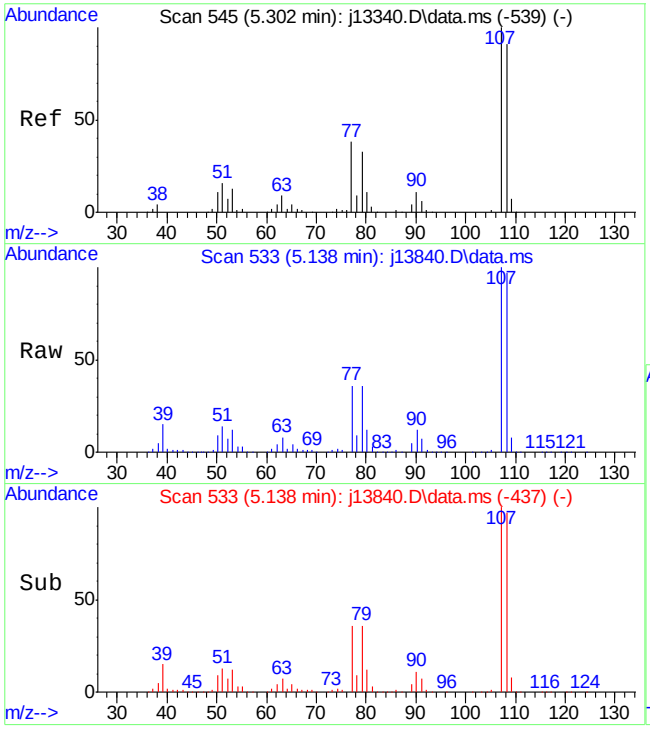
Tgt Ion:108 Resp: 2708963

Ion	Ratio	Lower	Upper
108	100		
107	88.1	68.3	108.3
77	45.5	30.8	70.8



8.1.14

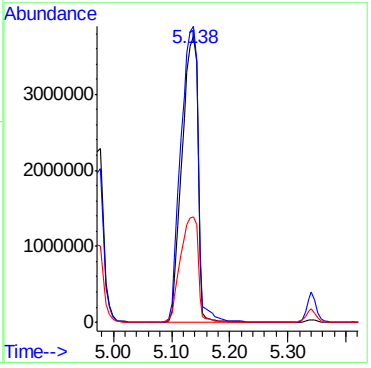
8

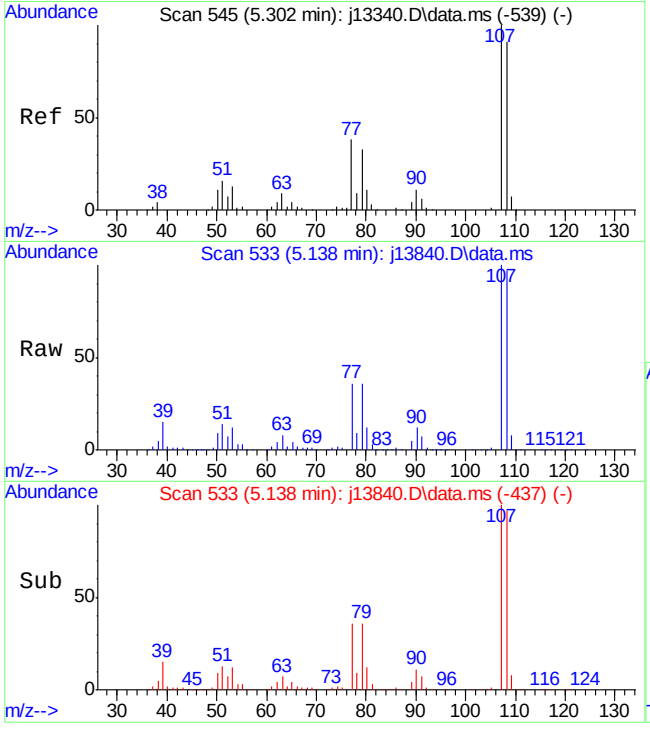


#16
4-Methylphenol
Concen: 406.54 ug/ml
RT: 5.138 min Scan# 533
Delta R.T. 0.016 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:108 Resp: 7092460

Ion	Ratio	Lower	Upper
108	100		
107	112.6	139.5	179.5#
77	41.3	36.8	76.8

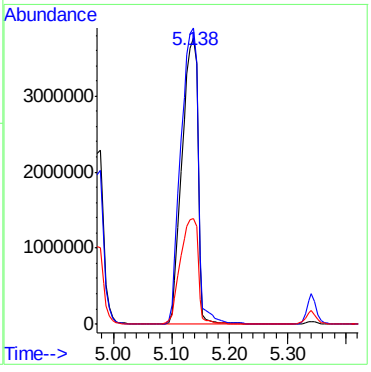


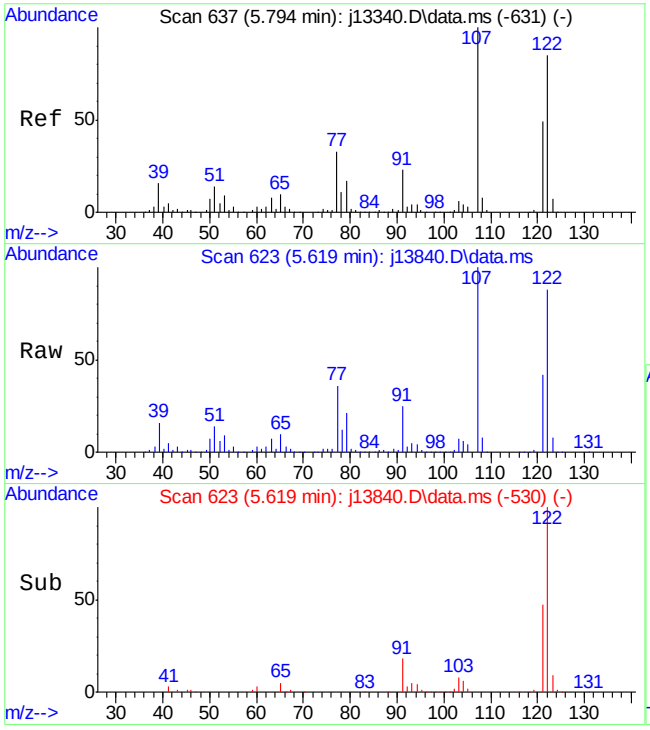


#17
m+p-Cresols
Concen: 406.54 ug/ml
RT: 5.138 min Scan# 533
Delta R.T. 0.016 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:108 Resp: 7092460

Ion	Ratio	Lower	Upper
108	100		
107	112.6	139.5	179.5#
77	41.3	36.8	76.8

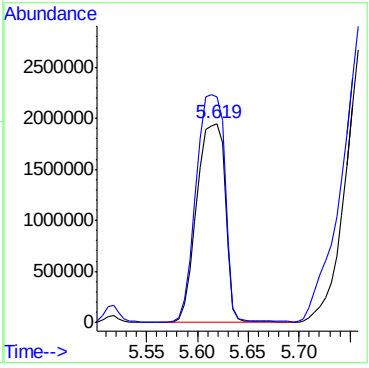


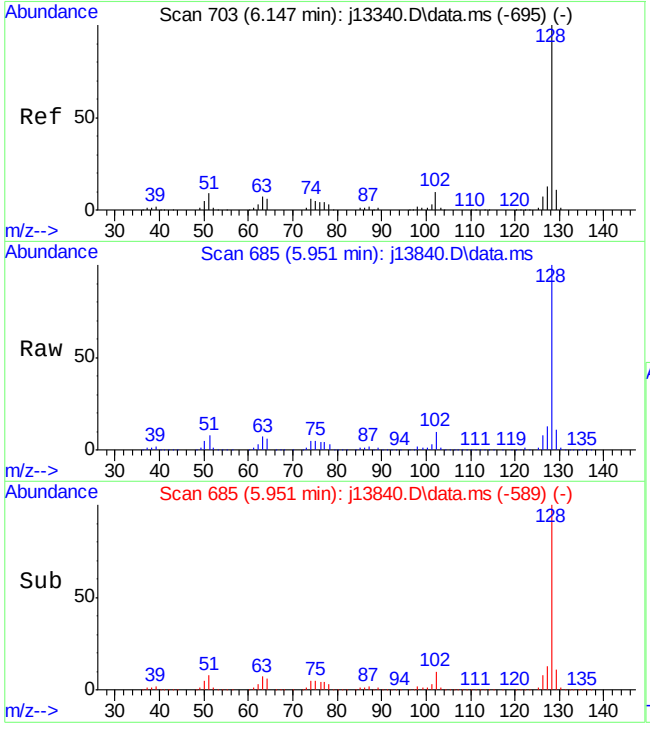


#25
2,4-Dimethylphenol
Concen: 223.70 ug/ml
RT: 5.619 min Scan# 623
Delta R.T. -0.000 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:122 Resp: 3758799

Ion	Ratio	Lower	Upper
122	100		
107	115.7	96.3	136.3

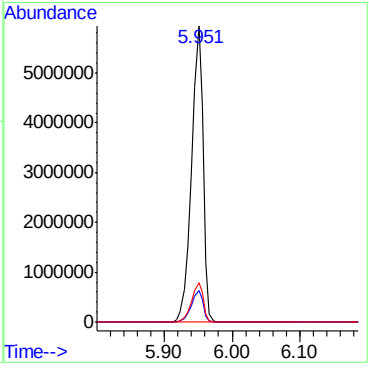


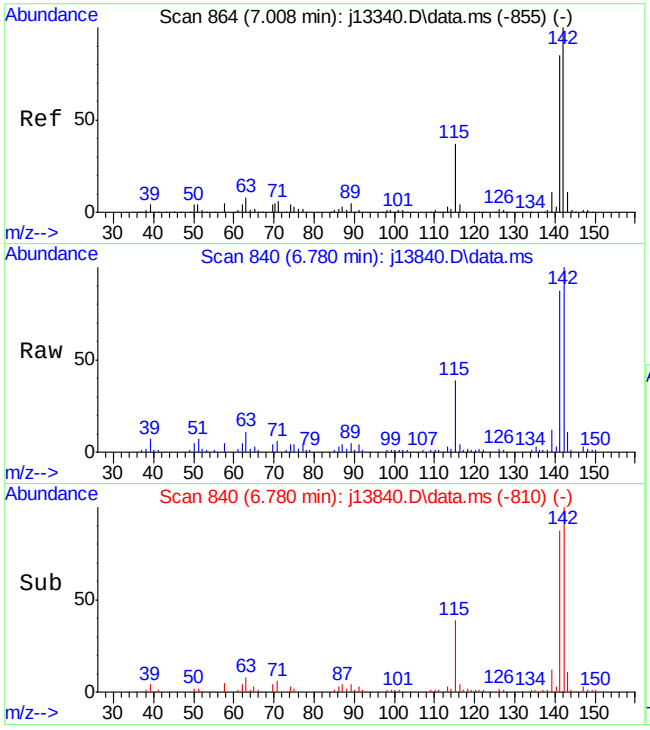


#30
Naphthalene
Concen: 119.42 ug/ml
RT: 5.951 min Scan# 685
Delta R.T. 0.016 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:128 Resp: 6978689

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.5	0.0	33.8

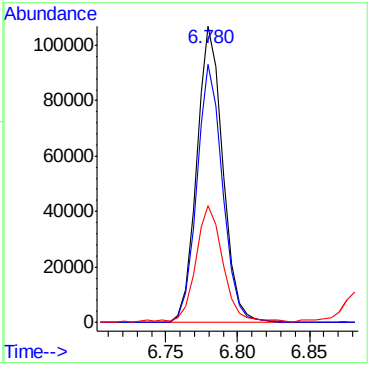


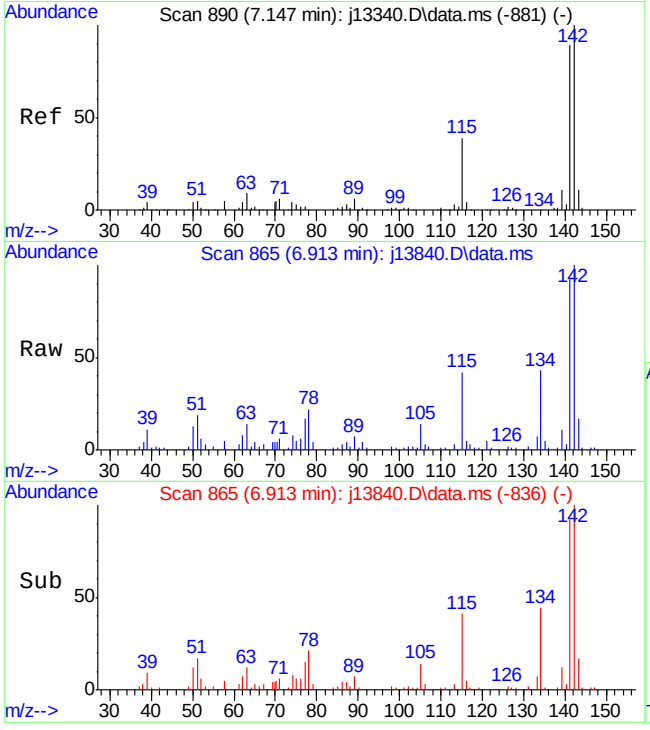


#34
2-Methylnaphthalene
Concen: 3.80 ug/ml
RT: 6.780 min Scan# 840
Delta R.T. -0.037 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:142 Resp: 135823

Ion	Ratio	Lower	Upper
142	100		
141	85.8	66.2	106.2
115	41.6	17.8	57.8

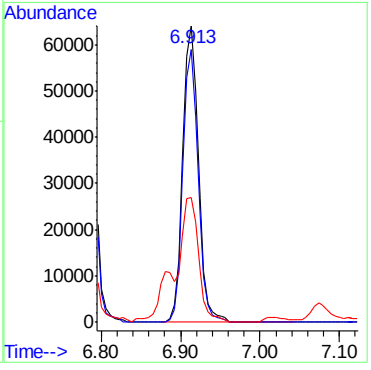


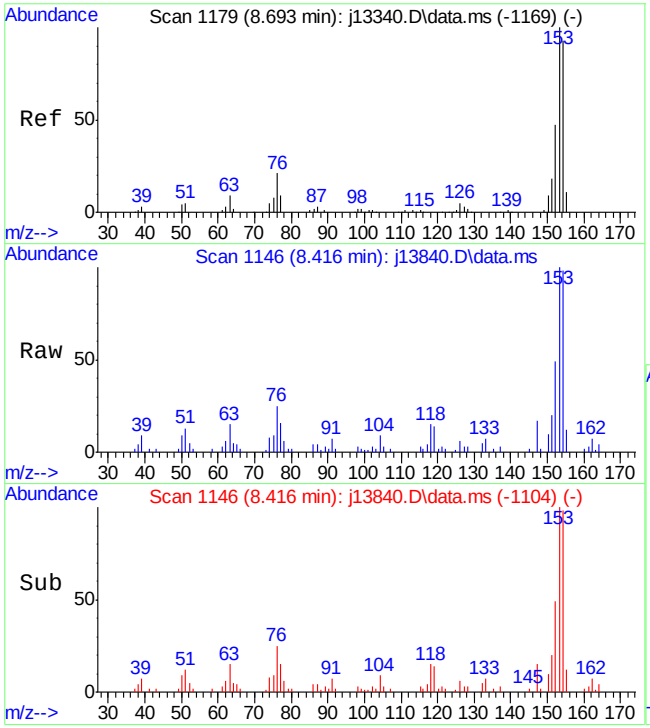


#35
1-Methylnaphthalene
Concen: 2.33 ug/ml m
RT: 6.913 min Scan# 865
Delta R.T. -0.043 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:142 Resp: 87270

Ion	Ratio	Lower	Upper
142	100		
141	116.6	69.4	109.4#
115	55.3	18.9	58.9

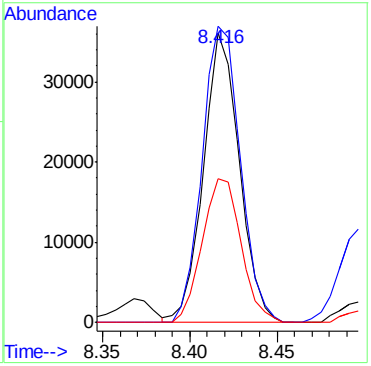




#47
Acenaphthene
Concen: 1.70 ug/ml
RT: 8.416 min Scan# 1146
Delta R.T. -0.277 min
Lab File: j13840.D
Acq: 15 Oct 2009 12:25 pm

Tgt Ion:154 Resp: 51834

Ion	Ratio	Lower	Upper
154	100		
153	108.7	87.9	127.9
152	53.7	31.3	71.3



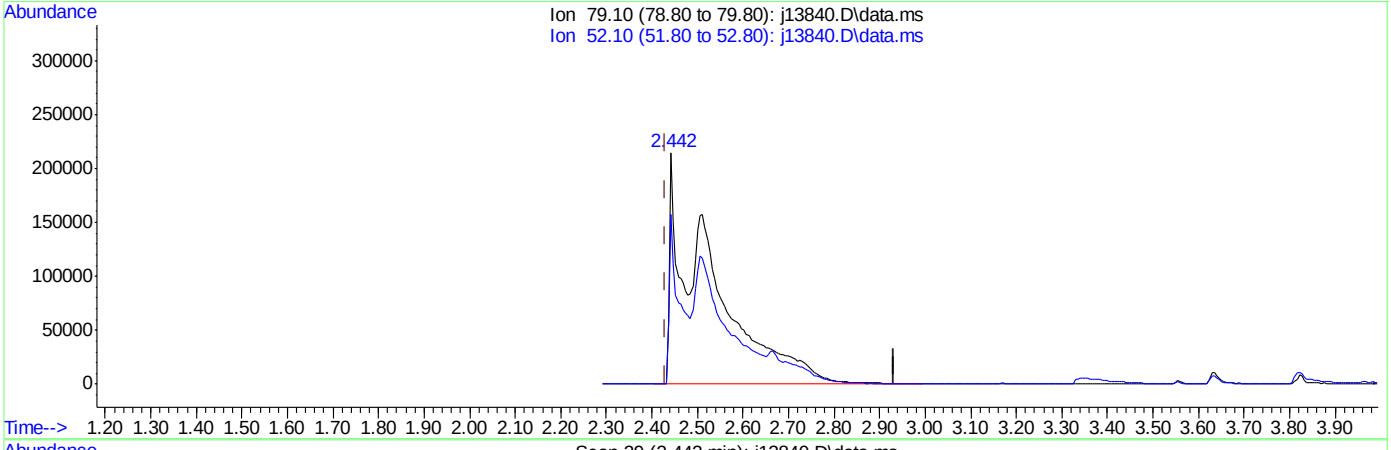
8.1.14

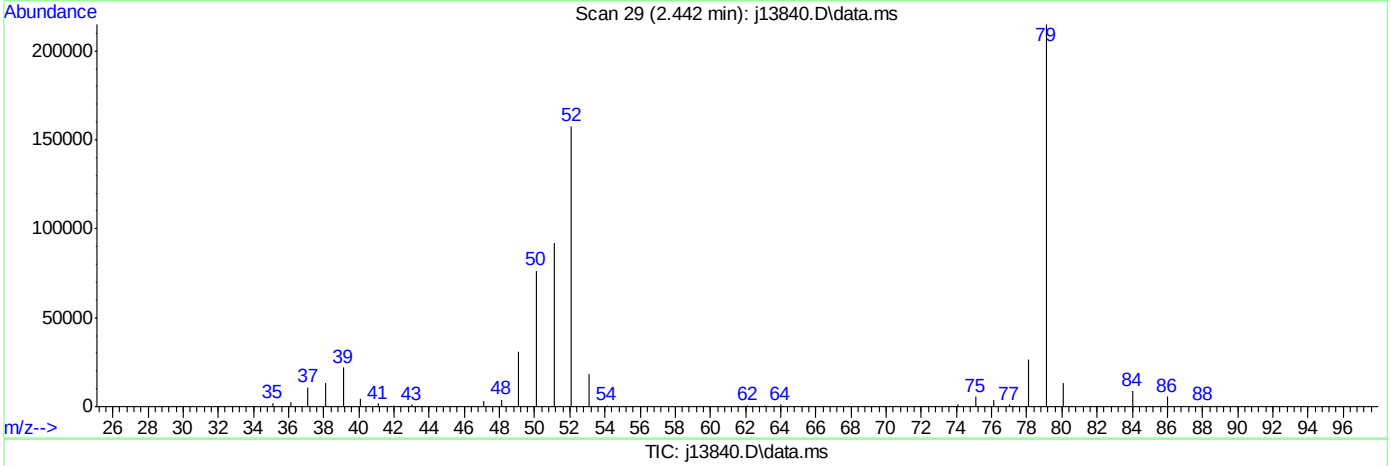
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
Sample    : t39646-5,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Oct 16 11:26:11 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 16 11:09:16 2009
Response via : Initial Calibration
```





(3) Pyridine

2.442min (+0.010) 78.97ug/ml m

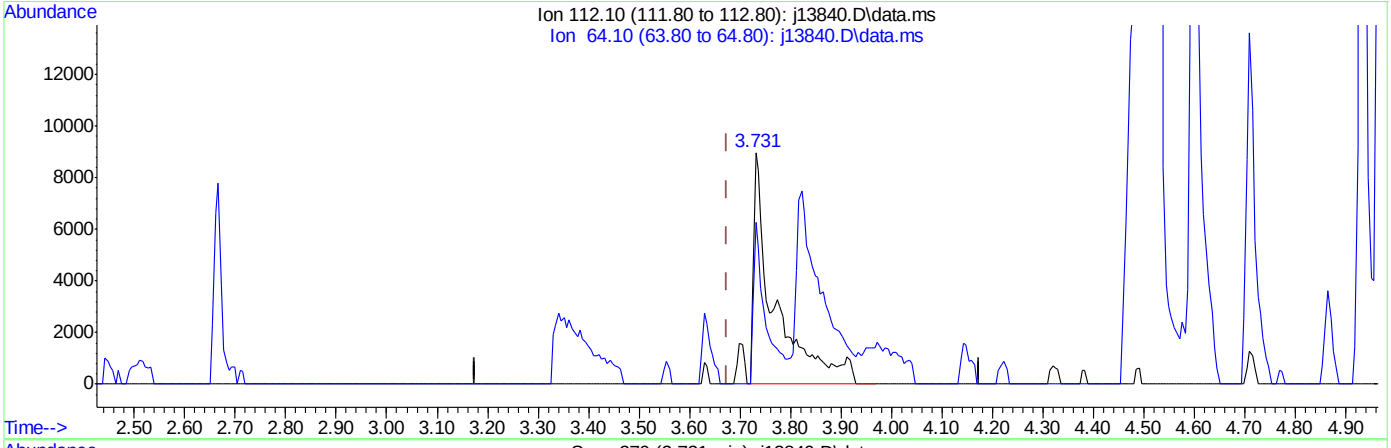
response 1298228

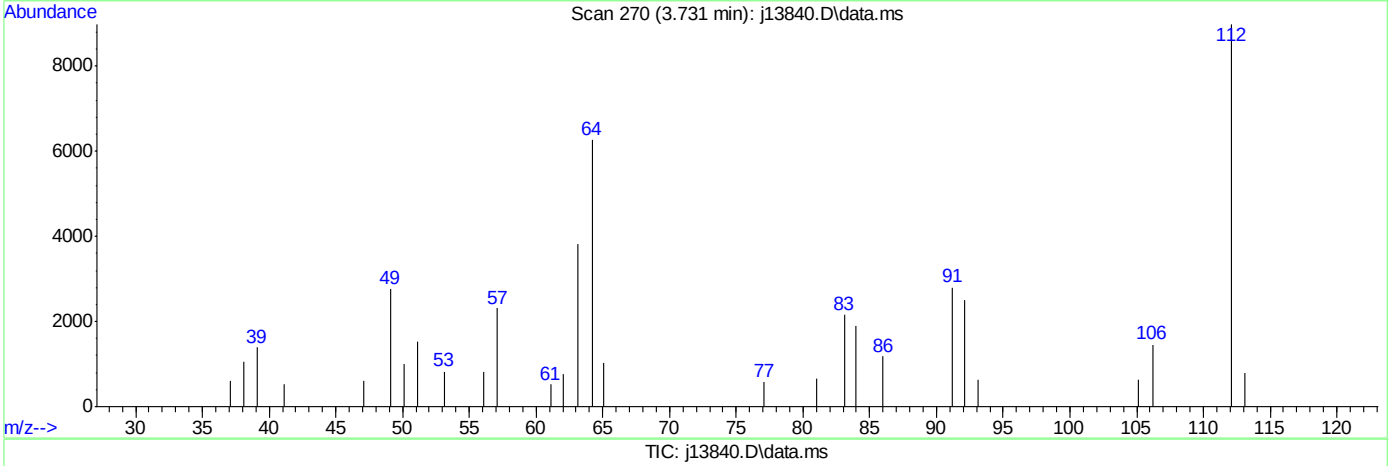
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	20.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 11:26:11 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 16 11:09:16 2009
Response via : Initial Calibration





TIC: j13840.D\data.ms

(4) 2-Fluorophenol (SURR) (S)

3.731min (+0.055) 1.49ug/ml m

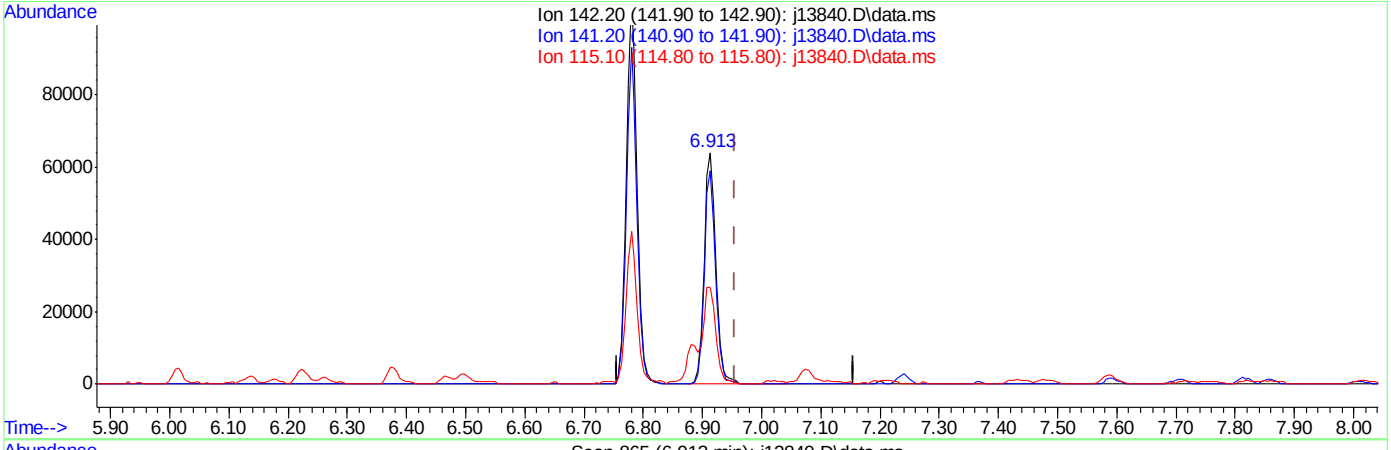
response 25941

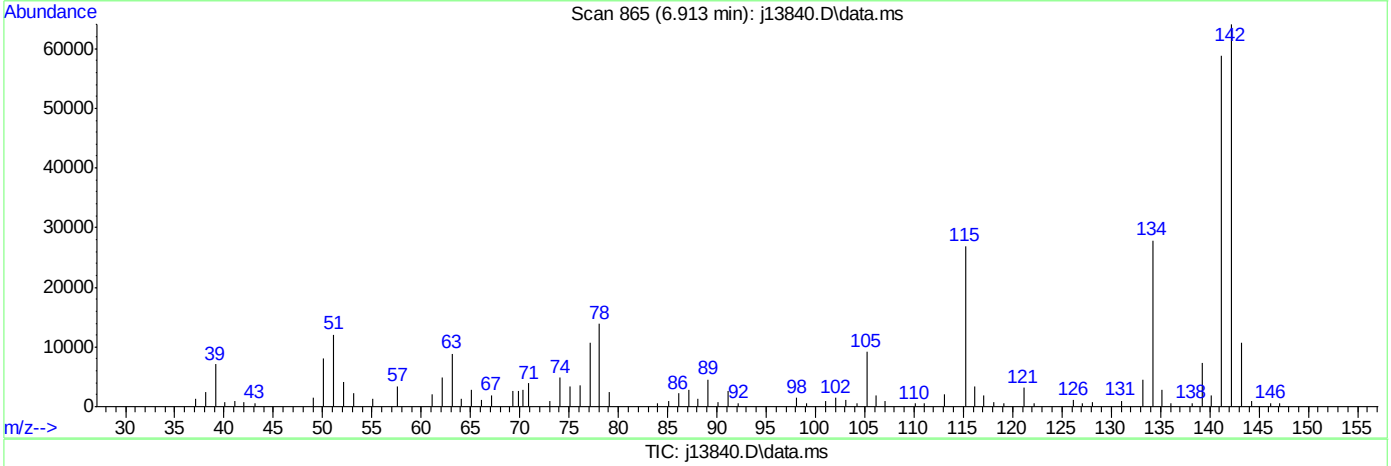
Ion	Exp%	Act%
112.10	100	100
64.10	66.70	41.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 11:26:11 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 16 11:09:16 2009
Response via : Initial Calibration





TIC: j13840.D\data.ms

(35) 1-Methylnaphthalene

6.913min (-0.043) 2.33ug/ml m

response 87270

Ion	Exp%	Act%
142.20	100	100
141.20	89.40	116.62#
115.10	38.90	55.31
0.00	0.00	0.00

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13840.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.442	26	29	37	rBV	685901	1119170	2.72%	0.551%
2	2.506	37	41	67	rVV	494880	2265380	5.51%	1.115%
3	2.667	67	71	91	rVB	933835	1270188	3.09%	0.625%
4	3.346	193	198	207	rBV3	189622	672638	1.63%	0.331%
5	3.635	248	252	262	rBV	429958	587969	1.43%	0.289%
6	3.822	283	287	308	rBV2	755922	2070746	5.03%	1.020%
7	4.523	404	418	422	rBV	16787005	41147687	100.00%	20.260%
8	4.603	429	433	446	rVB	1264599	1754386	4.26%	0.864%
9	4.710	446	453	462	rBV	3288432	3781797	9.19%	1.862%
10	4.865	478	482	490	rVB	549244	589595	1.43%	0.290%
11	4.934	490	495	498	rBV	4172901	4140896	10.06%	2.039%
12	4.977	498	503	518	rVB	11367193	14069291	34.19%	6.927%
13	5.138	520	533	537	rBV	16900874	34782087	84.53%	17.125%
14	5.341	565	571	580	rVB2	2411450	2877784	6.99%	1.417%
15	5.517	597	604	611	rVB	514218	572677	1.39%	0.282%
16	5.619	611	623	628	rBV2	10890446	21219057	51.57%	10.447%
17	5.758	638	649	654	rBV	13250592	20147887	48.96%	9.920%
18	5.806	654	658	666	rVB	1851873	2140126	5.20%	1.054%
19	5.919	673	679	681	rBV2	5372097	7078198	17.20%	3.485%
20	5.951	681	685	689	rVV	12910441	15418538	37.47%	7.592%
21	5.999	690	694	709	rVB2	788823	1426754	3.47%	0.702%
22	6.223	731	736	740	rBV	454573	591885	1.44%	0.291%
23	6.373	759	764	777	rBV	536546	730833	1.78%	0.360%
24	6.496	784	787	792	rVV	308672	452467	1.10%	0.223%
25	6.780	836	840	850	rVB	397731	608564	1.48%	0.300%
26	6.860	850	855	857	rBV2	361291	502674	1.22%	0.247%
27	8.331	1114	1130	1132	rBV	923346	2589909	6.29%	1.275%
28	8.368	1132	1137	1143	rVV	3429560	4972783	12.09%	2.448%
29	8.614	1174	1183	1197	rBV	547590	1141491	2.77%	0.562%
30	8.716	1197	1202	1220	rVV2	318120	650383	1.58%	0.320%
31	9.096	1266	1273	1288	rVB2	274441	563504	1.37%	0.277%
32	9.256	1297	1303	1315	rBV3	198011	467631	1.14%	0.230%
33	10.486	1506	1533	1539	rBV3	473456	2522985	6.13%	1.242%
34	11.144	1644	1656	1671	rBV2	2276941	4275474	10.39%	2.105%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
Sample    : t39646-5,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 6000 Area counts
Start Thrs: 0.2                         Max Peaks: 100
Stop Thrs : 0                       Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
```

35	16.664	2679	2688	2714	rBV	1180813	2449047	5.95%	1.206%
36	19.472	3204	3213	3237	rBV	562385	1450029	3.52%	0.714%

Sum of corrected areas: 203102510

8.1.15

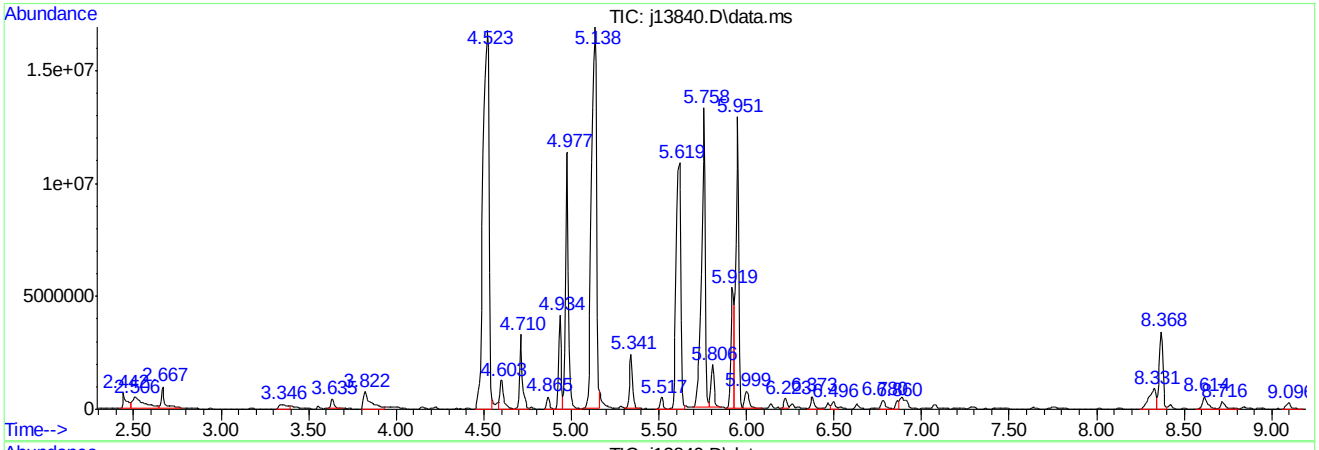
8

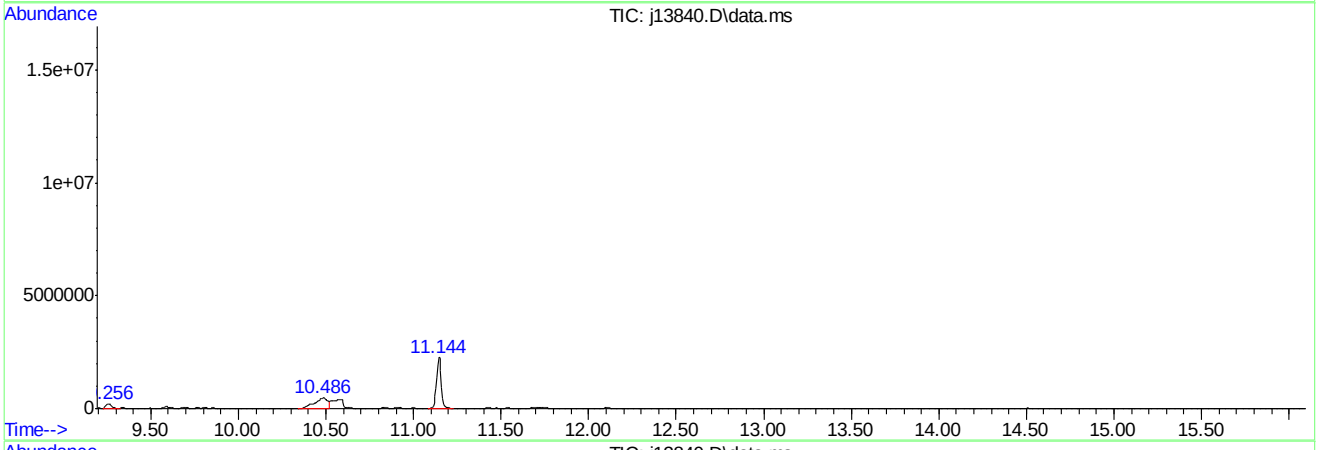
LSC Report - Integrated Chromatogram

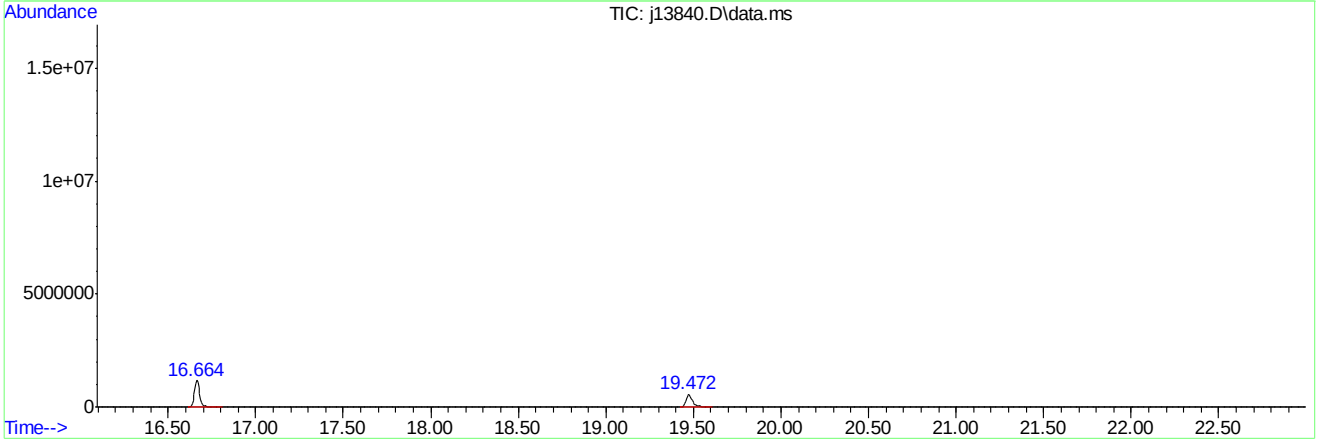
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

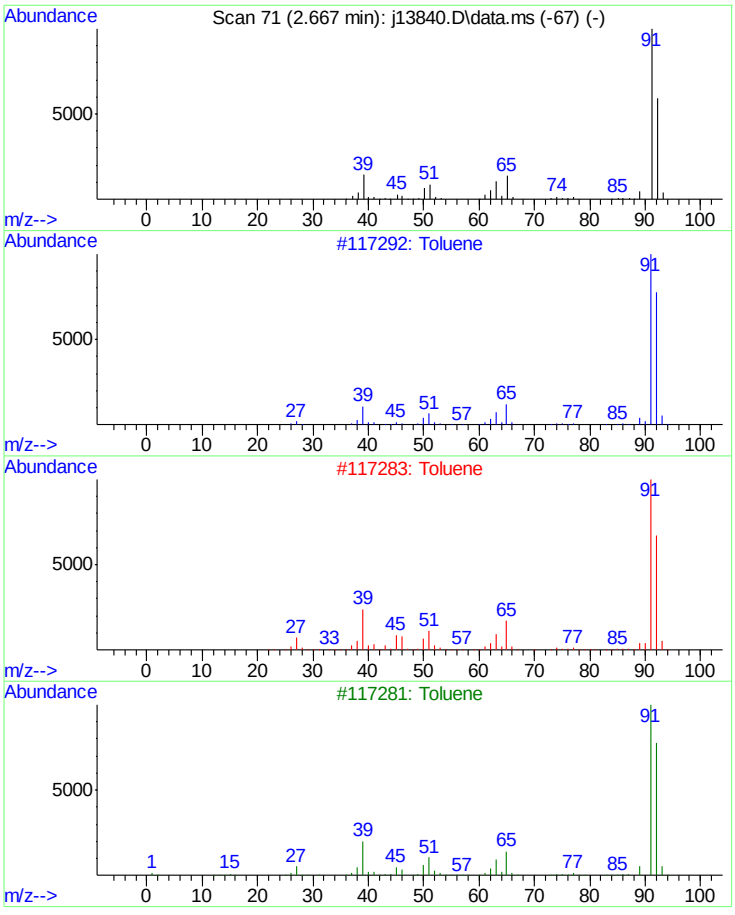
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

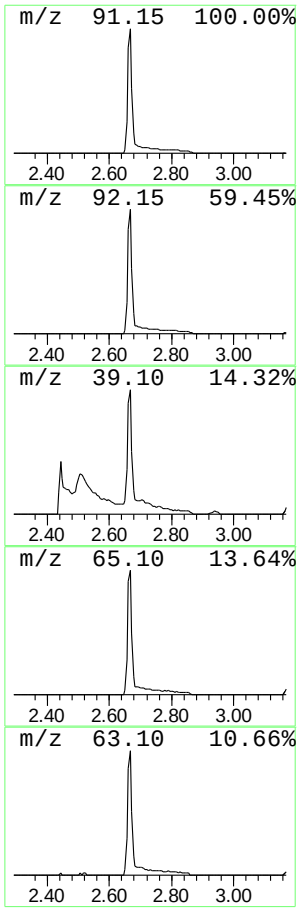
****

Peak Number 2 Toluene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.667	13.43 ug/ml	1270190	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	90
5	Toluene	92	C7H8	000108-88-3	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

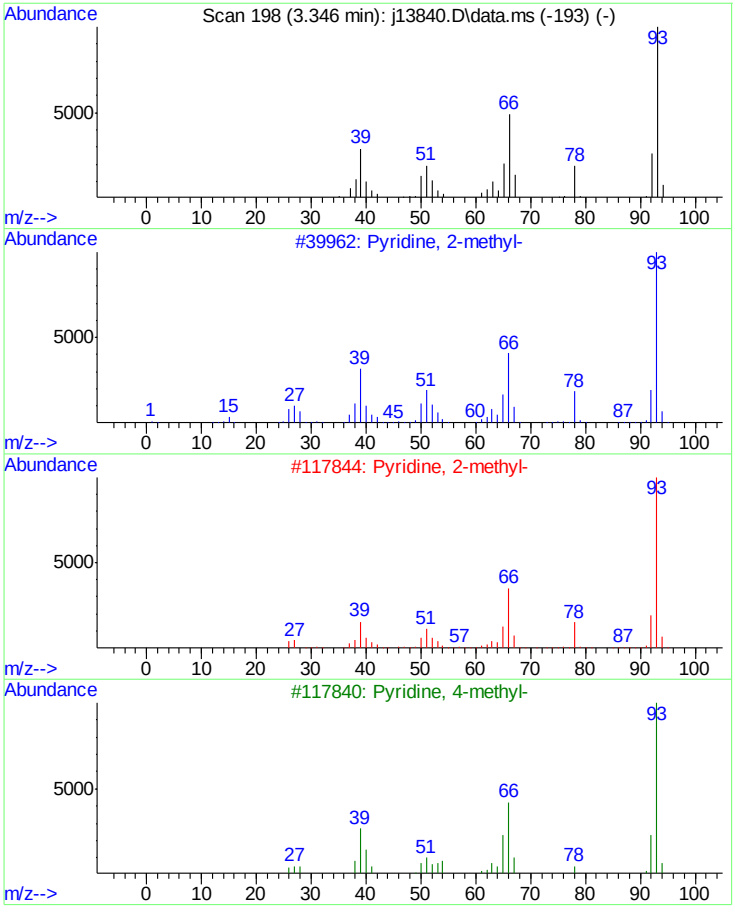
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

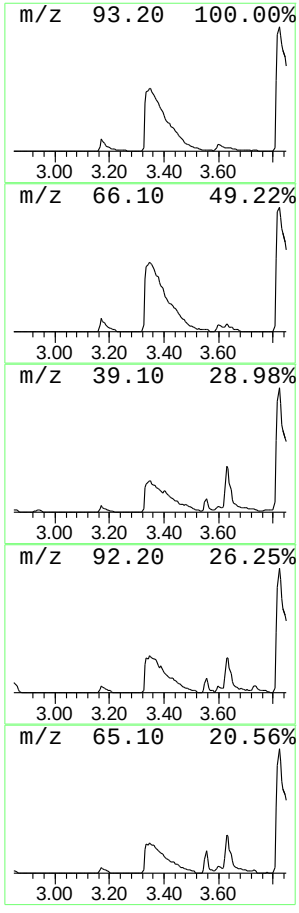
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Pyridine, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.346	7.11 ug/ml	672638	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	98
2	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	95
3	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	94
4	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	93
5	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

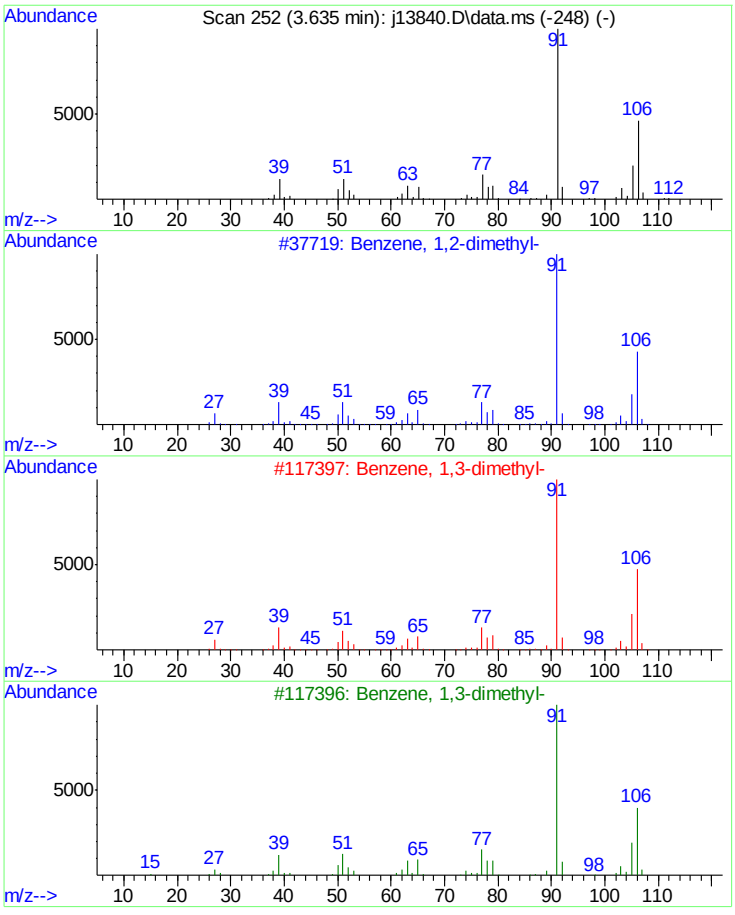
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

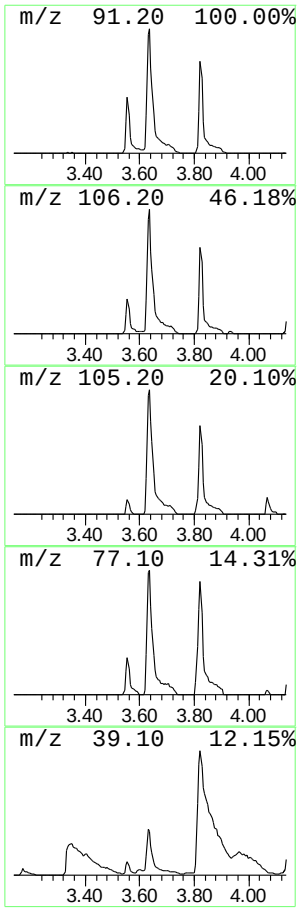
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1,2-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.635	6.22 ug/ml	587969	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
4	p-Xylene	106	C8H10	000106-42-3	97
5	p-Xylene	106	C8H10	000106-42-3	95





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

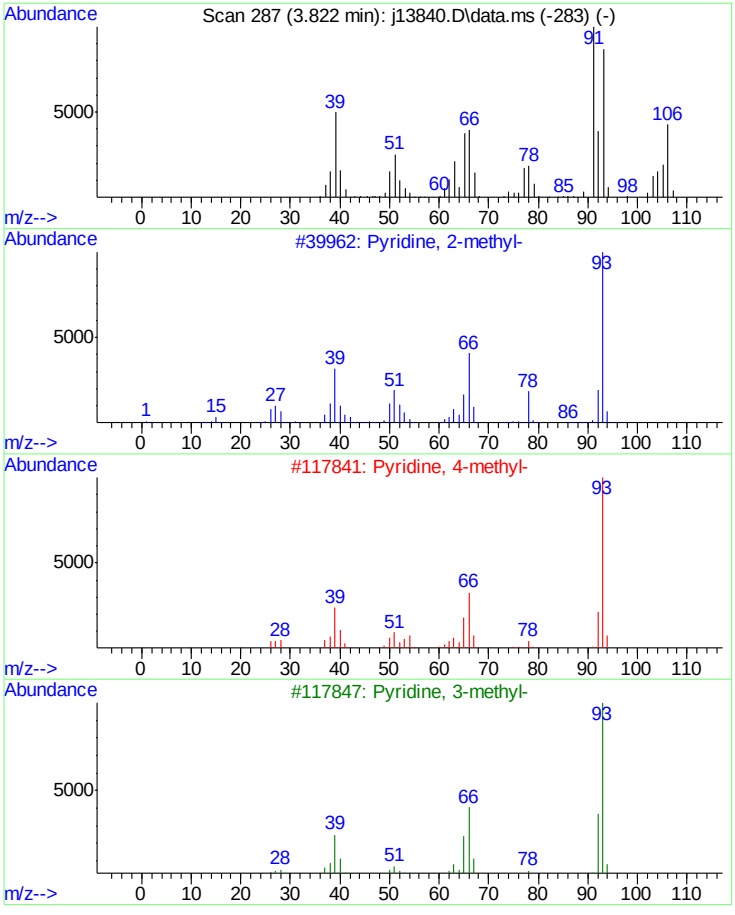
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

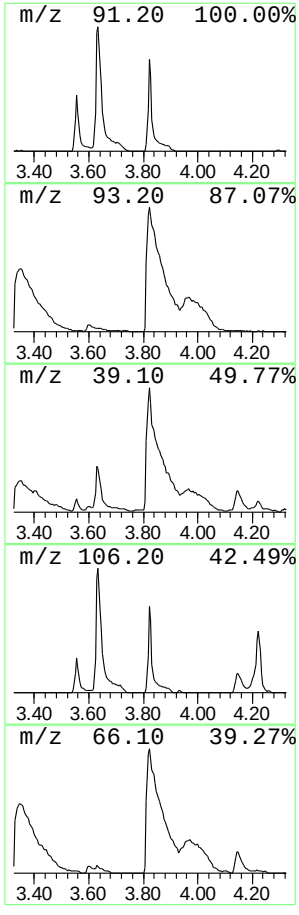
****

Peak Number 5 Pyridine, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.822	21.90 ug/ml	2070750	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-methyl-	93	C6H7N	000109-06-8	90
2	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	53
3	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	52
4	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	49
5	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	49





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

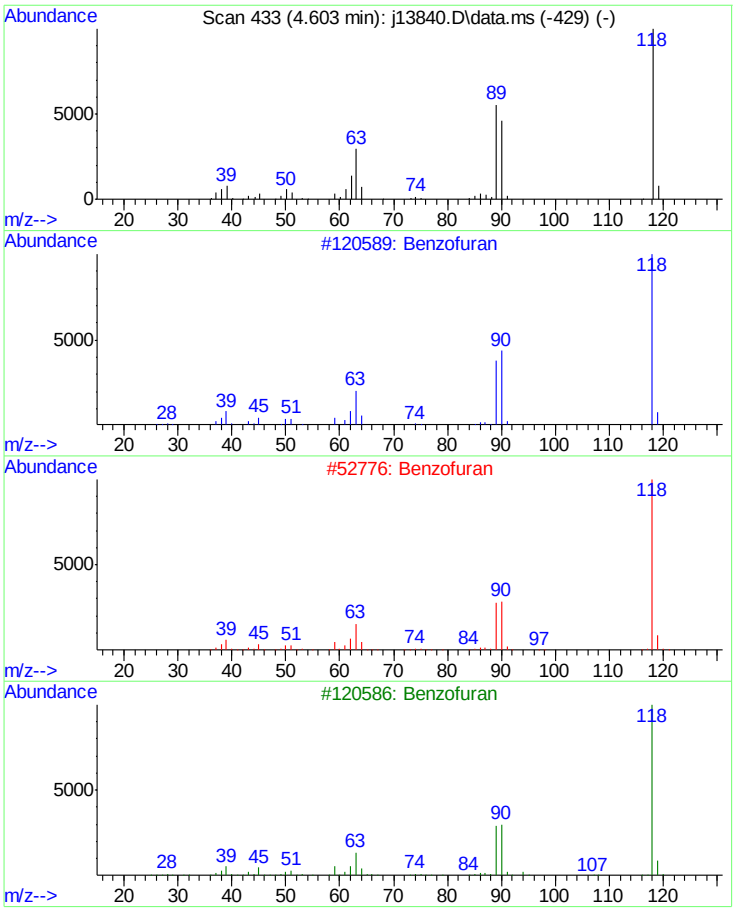
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

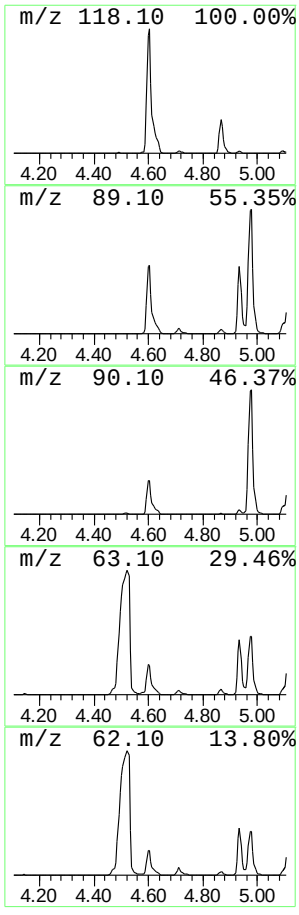
****

Peak Number 6 Benzofuran Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.603	18.56 ug/ml	1754390	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	94
2	Benzofuran	118	C8H6O	000271-89-6	94
3	Benzofuran	118	C8H6O	000271-89-6	91
4	Benzofuran	118	C8H6O	000271-89-6	90
5	Benzofuran	118	C8H6O	000271-89-6	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

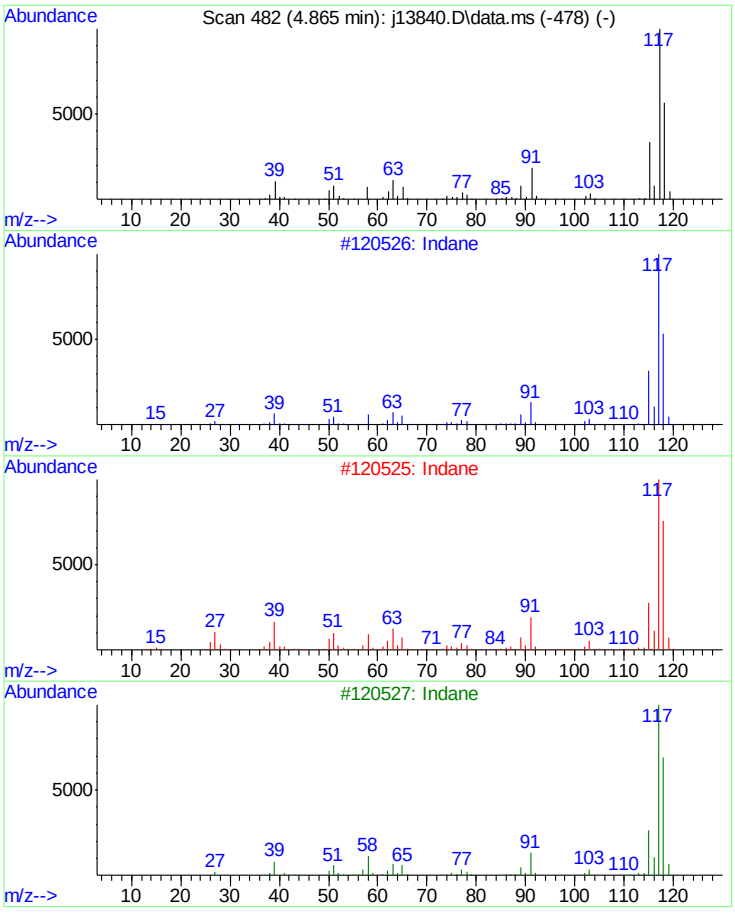
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

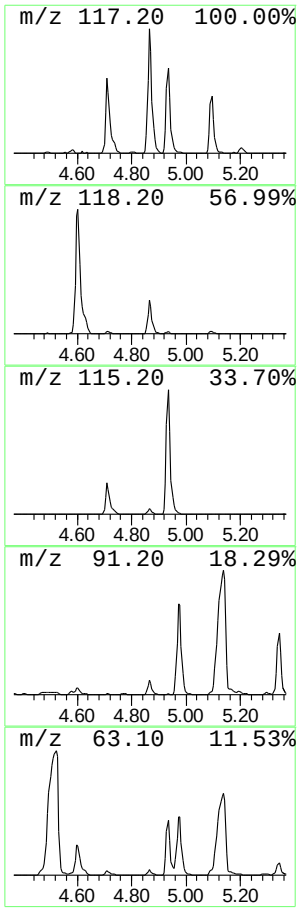
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Indane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.865	6.24 ug/ml	589595	1,4-Dichlorobenzene-d4	4.710

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	90
3	Indane	118	C9H10	000496-11-7	81
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
5	Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

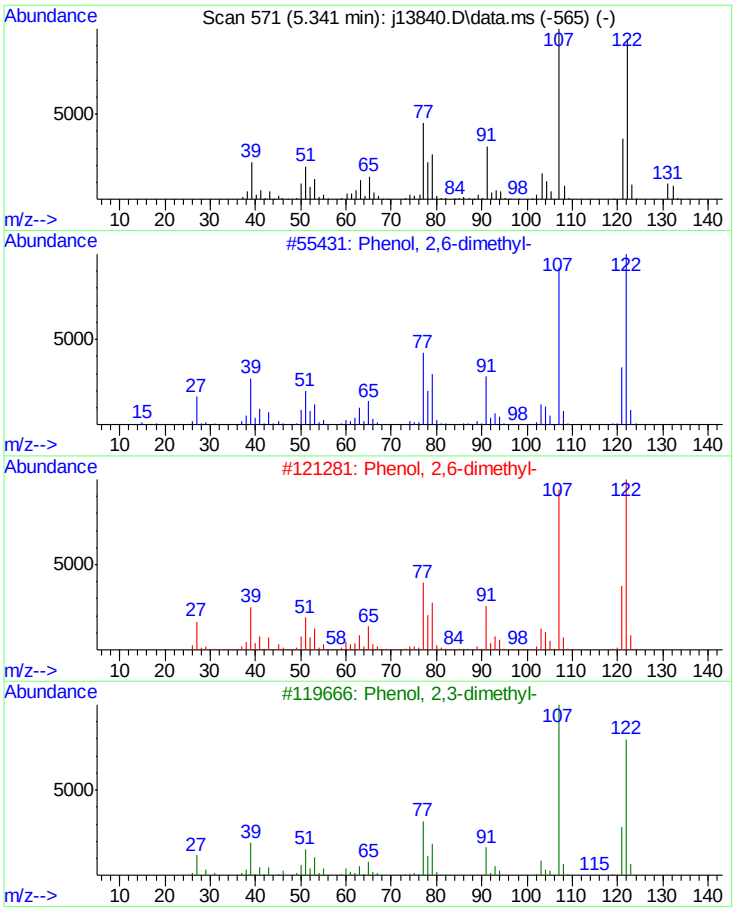
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

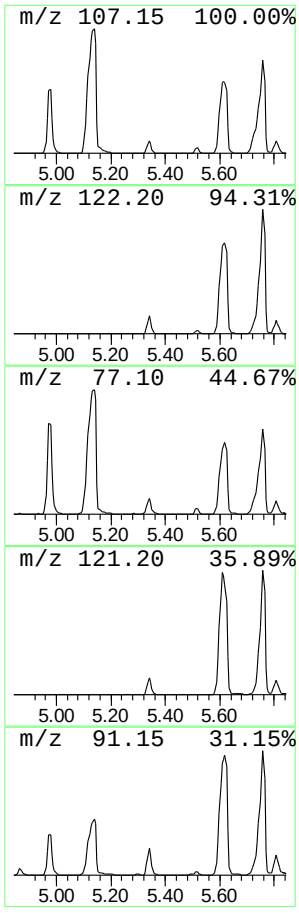
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Phenol, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.341	16.26 ug/ml	2877780	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	98
2	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	96
3	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	93
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
5	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	91





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
Sample    : t39646-5,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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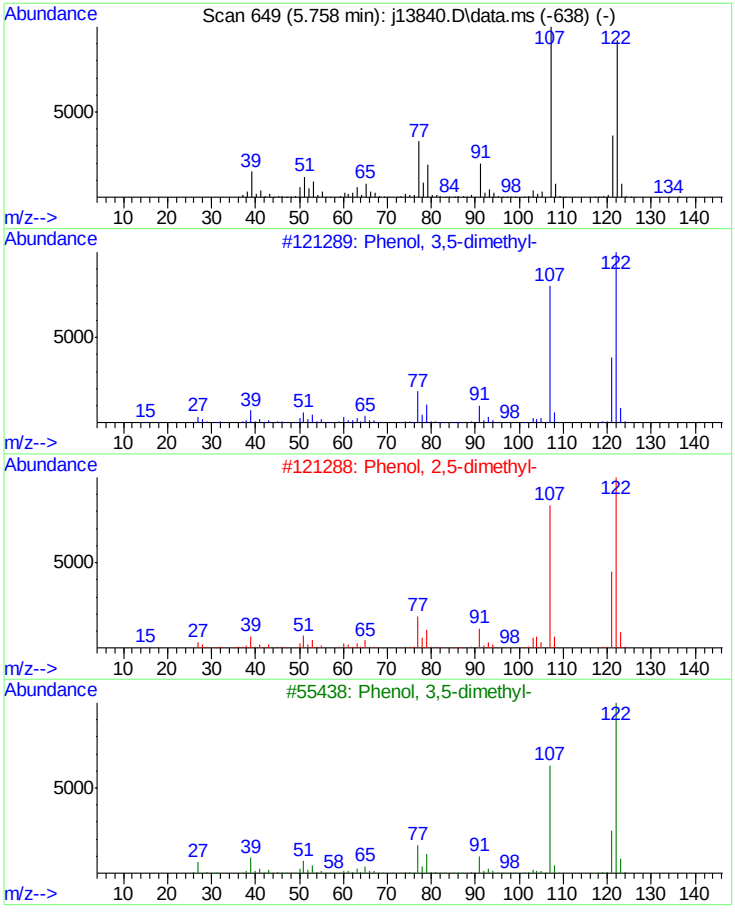
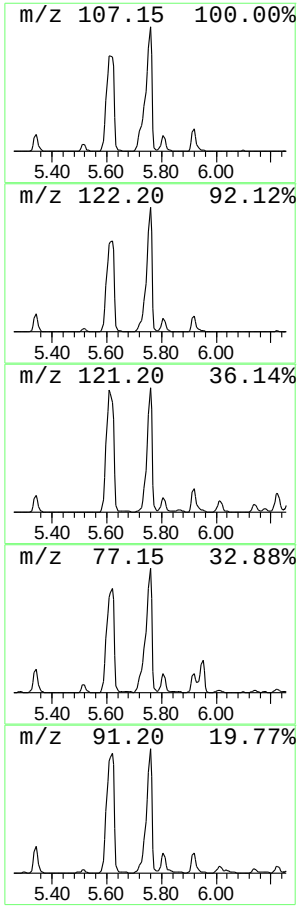
****

Peak Number 9 Phenol, 3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.758	113.86 ug/ml	20147900	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	95
2	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	93
4	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	91
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
Sample    : t39646-5,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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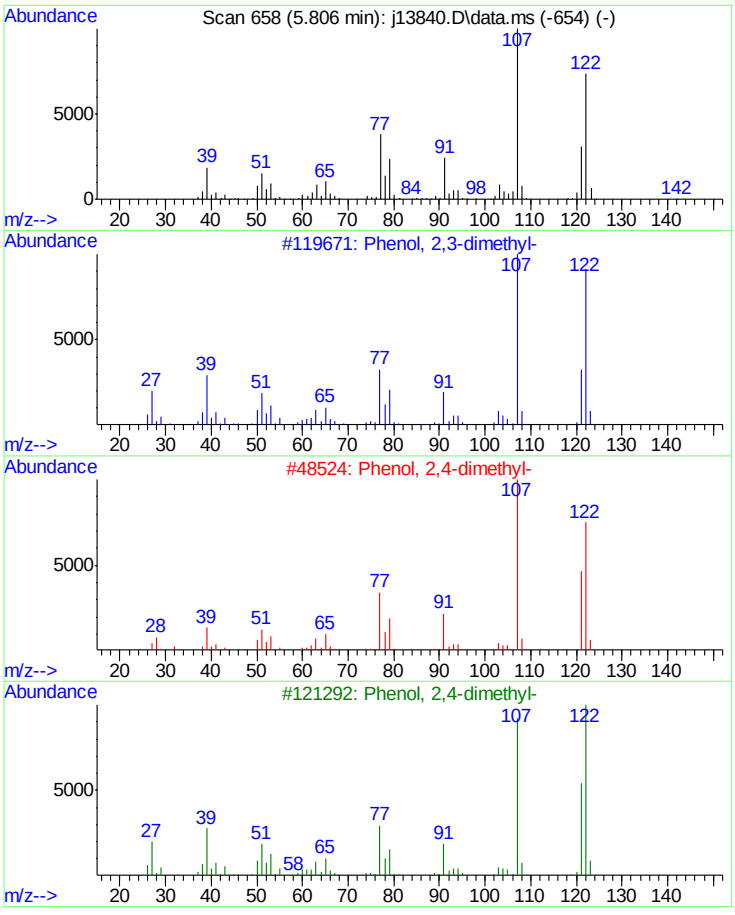
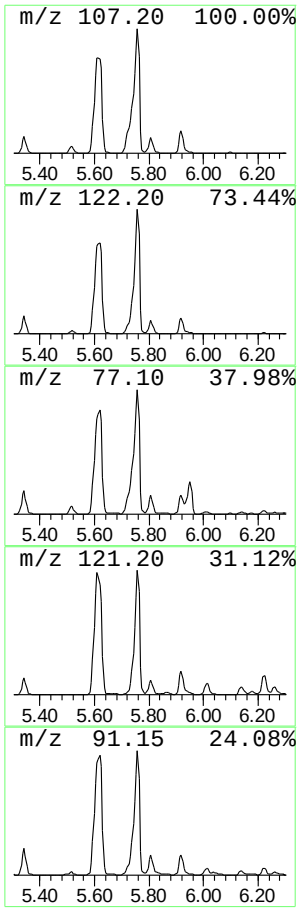
****

Peak Number 10 Phenol, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.806	12.09 ug/ml	2140130	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	97
2	Phenol, 2,4-dimethyl-	122	C8H10O	000105-67-9	96
3	Phenol, 2,4-dimethyl-	122	C8H10O	000105-67-9	95
4	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	95
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

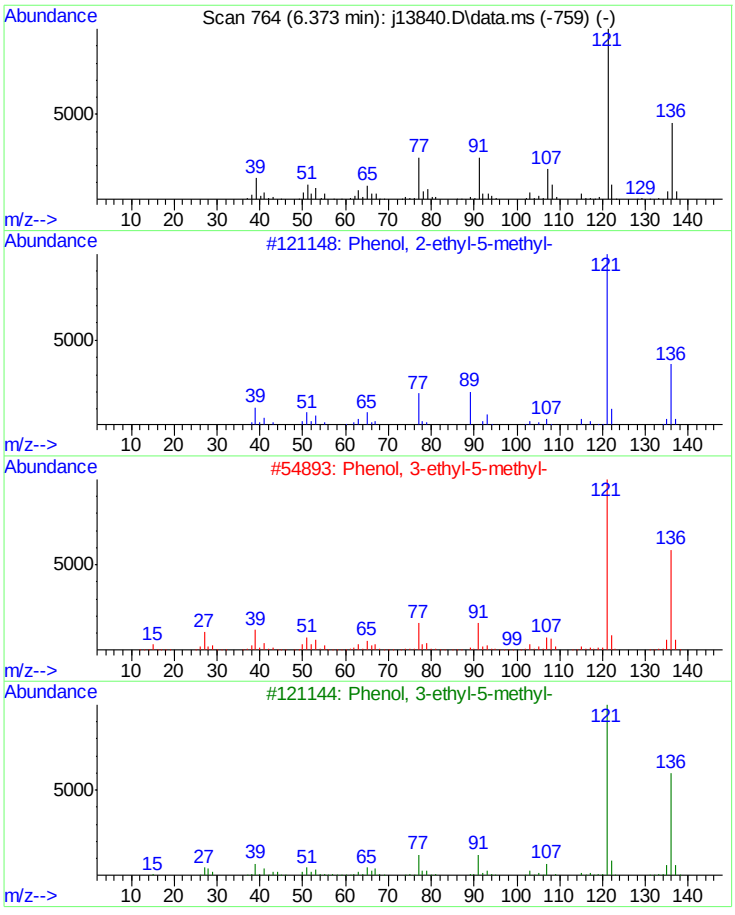
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

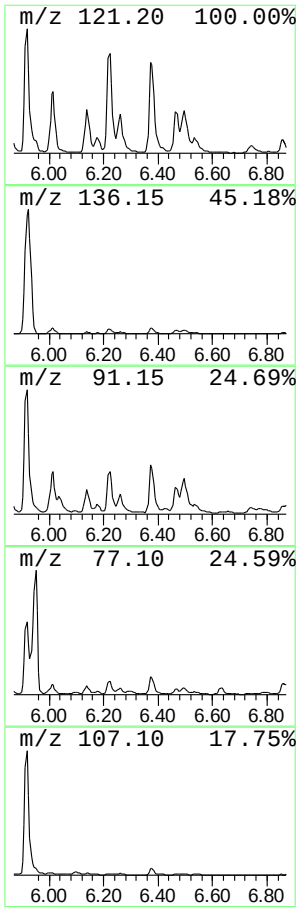
****

Peak Number 11 Phenol, 2-ethyl-5-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.373	4.13 ug/ml	730833	Naphthalene-d8	5.924

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-ethyl-5-methyl-	136	C9H12O	001687-61-2	91
2	Phenol, 3-ethyl-5-methyl-	136	C9H12O	000698-71-5	91
3	Phenol, 3-ethyl-5-methyl-	136	C9H12O	000698-71-5	91
4	Phenol, 2-ethyl-6-methyl-	136	C9H12O	001687-64-5	90
5	Phenol, 3,4,5-trimethyl-	136	C9H12O	000527-54-8	87





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
Sample    : t39646-5,40x
Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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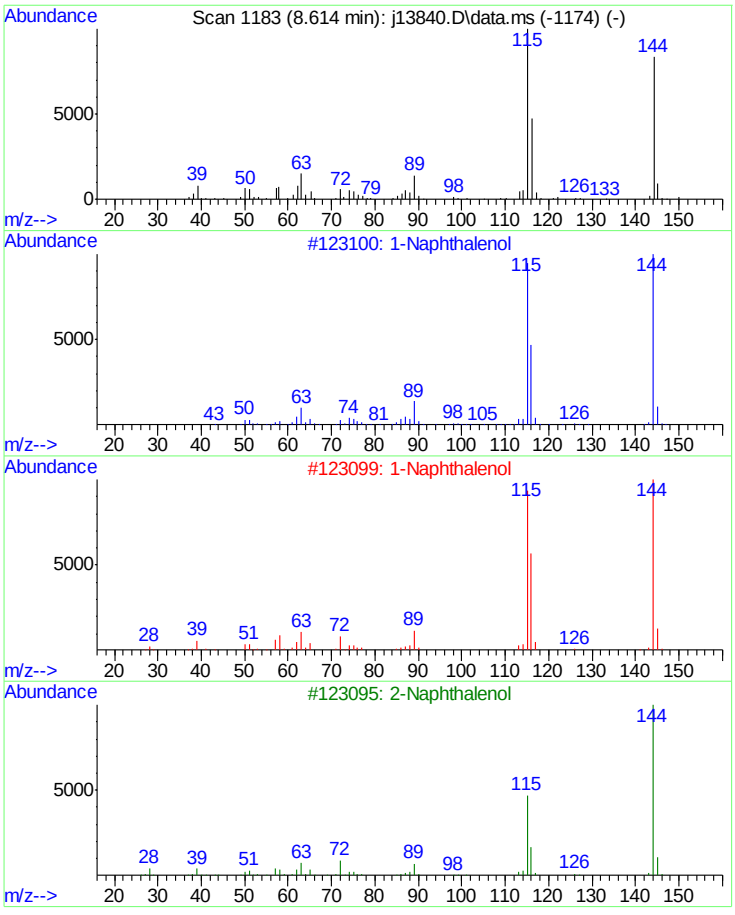
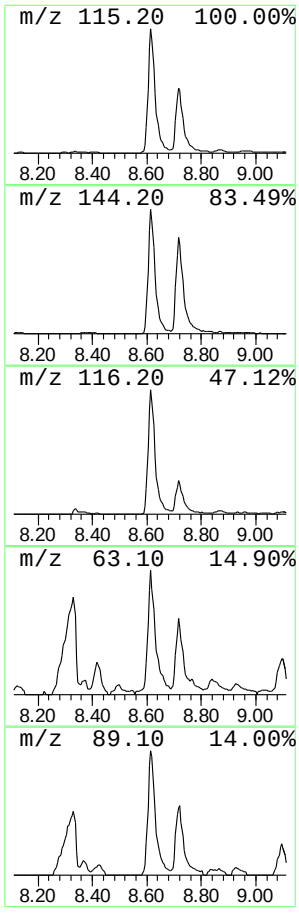
****

Peak Number 12 1-Naphthalenol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.614	9.18 ug/ml	1141490	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	94
3	2-Naphthalenol	144	C10H8O	000135-19-3	94
4	2-Naphthalenol	144	C10H8O	000135-19-3	94
5	1-Naphthalenol	144	C10H8O	000090-15-3	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

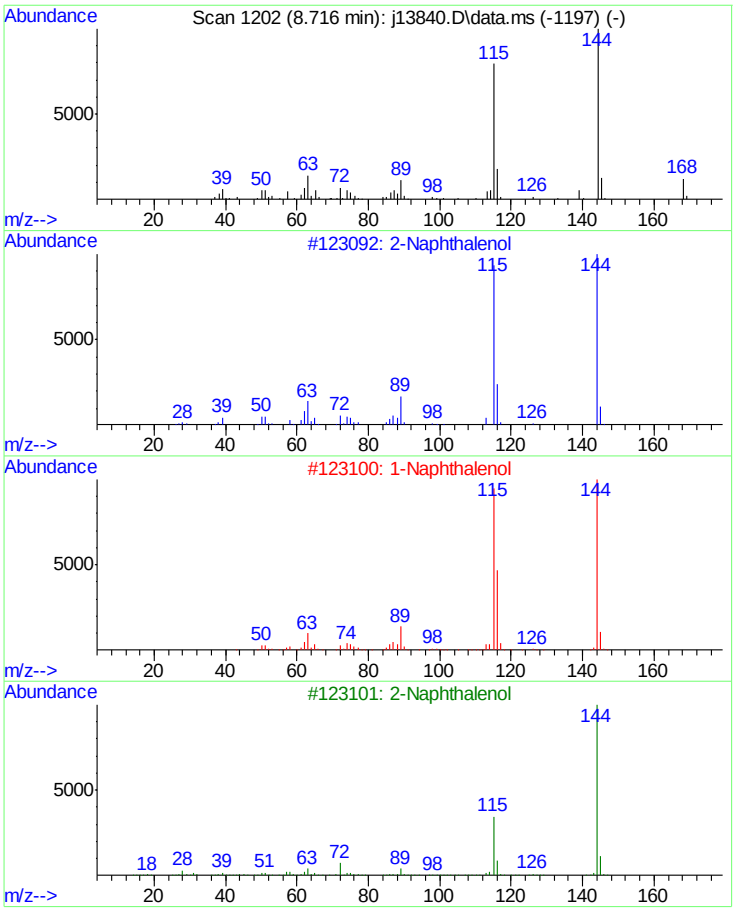
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

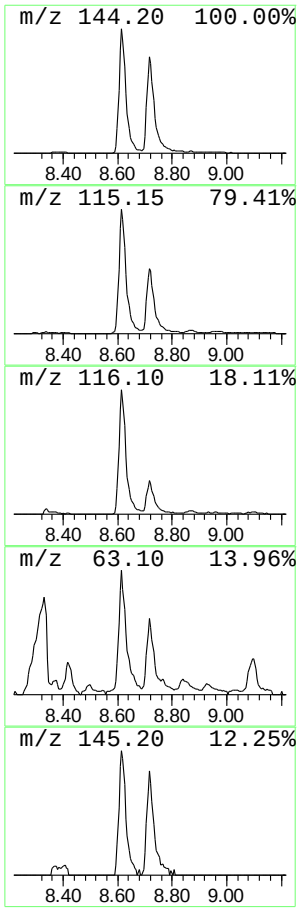
****

Peak Number 13 2-Naphthalenol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.716	5.23 ug/ml	650383	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenol	144	C10H8O	000135-19-3	93
2	1-Naphthalenol	144	C10H8O	000090-15-3	91
3	2-Naphthalenol	144	C10H8O	000135-19-3	90
4	Furan, 3-phenyl-	144	C10H8O	013679-41-9	90
5	1-Naphthalenol	144	C10H8O	000090-15-3	87





Library Search Compound Report

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Data File : j13840.D
Acq On    : 15 Oct 2009  12:25 pm
Operator  : sheilac
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Misc      : op13250,Ej635,1000,,,1,40,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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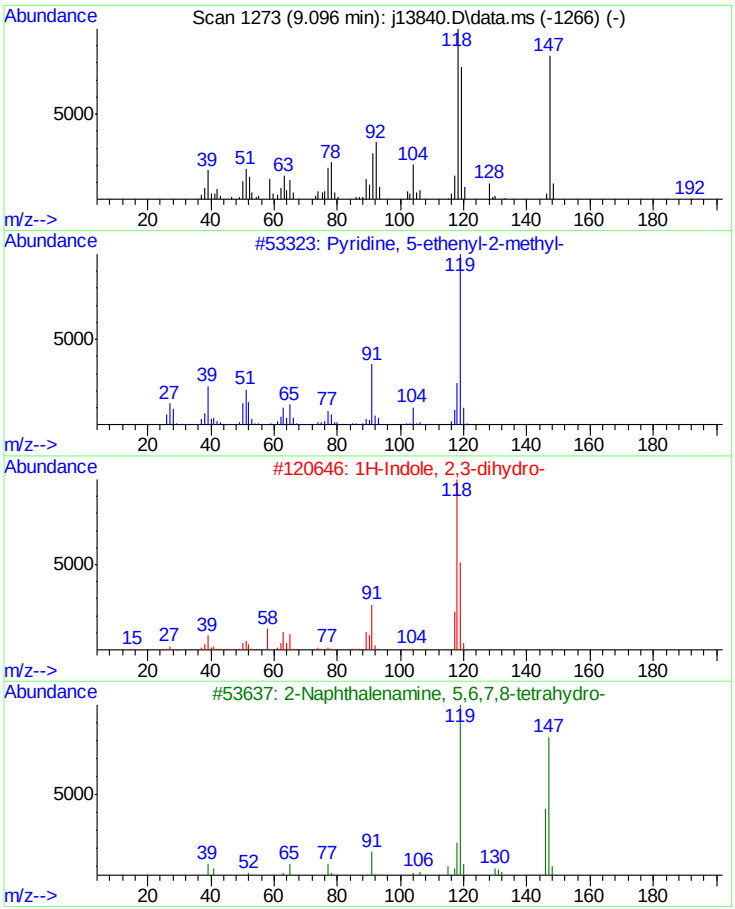
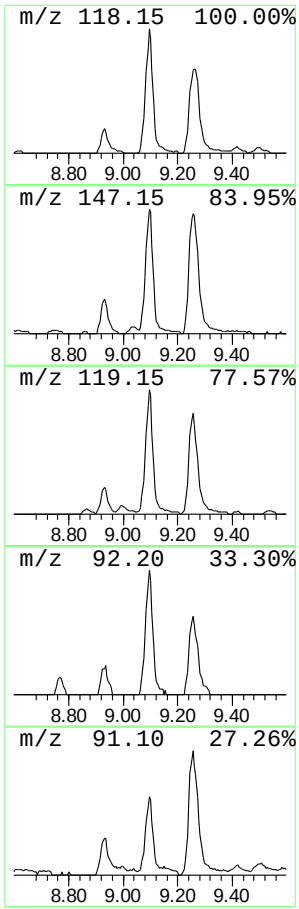
****

Peak Number 14 Pyridine, 5-ethenyl-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.096	4.53 ug/ml	563504	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 5-ethenyl-2-methyl-	119	C8H9N	000140-76-1	70
2	1H-Indole, 2,3-dihydro-	119	C8H9N	000496-15-1	64
3	2-Naphthalenamine, 5,6,7,8-tetra...	147	C10H13N	002217-43-8	64
4	1H-Indole-1-carboxaldehyde, 2,3-...	147	C9H9NO	002861-59-8	60
5	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	55





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

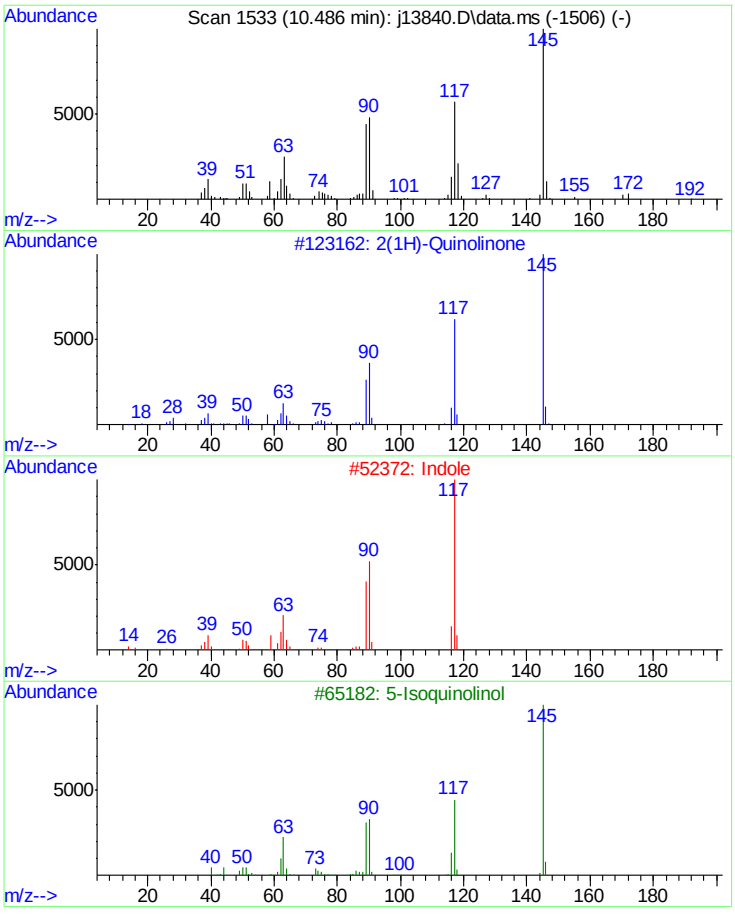
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

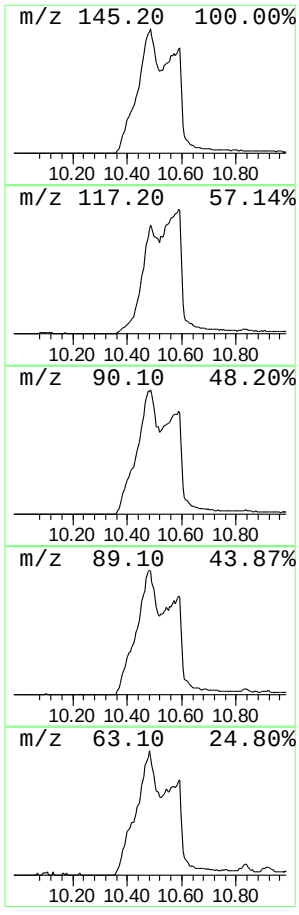
****

Peak Number 15 2(1H)-Quinolinone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.486	23.60 ug/ml	2522990	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	93
2	Indole	117	C8H7N	000120-72-9	93
3	5-Isoquinolinol	145	C9H7NO	002439-04-5	93
4	Indole	117	C8H7N	000120-72-9	91
5	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13840.D
Acq On : 15 Oct 2009 12:25 pm
Operator : sheilac
Sample : t39646-5,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Toluene	2.667	13.4	ug/ml	1270190	1	4.710	3781800	40.0
Pyridine, 2-met...	3.346	7.1	ug/ml	672638	1	4.710	3781800	40.0
Benzene, 1,2-di...	3.635	6.2	ug/ml	587969	1	4.710	3781800	40.0
Pyridine, 2-met...	3.822	21.9	ug/ml	2070750	1	4.710	3781800	40.0
Benzofuran	4.603	18.6	ug/ml	1754390	1	4.710	3781800	40.0
Indane	4.865	6.2	ug/ml	589595	1	4.710	3781800	40.0
Phenol, 2,6-dim...	5.341	16.3	ug/ml	2877780	2	5.924	7078200	40.0
Phenol, 3,5-dim...	5.758	113.9	ug/ml	20147900	2	5.924	7078200	40.0
Phenol, 2,3-dim...	5.806	12.1	ug/ml	2140130	2	5.924	7078200	40.0
Phenol, 2-ethyl...	6.373	4.1	ug/ml	730833	2	5.924	7078200	40.0
1-Naphthalenol	8.614	9.2	ug/ml	1141490	3	8.368	4972780	40.0
2-Naphthalenol	8.716	5.2	ug/ml	650383	3	8.368	4972780	40.0
Pyridine, 5-eth...	9.096	4.5	ug/ml	563504	3	8.368	4972780	40.0
2(1H)-Quinolinone	10.486	23.6	ug/ml	2522990	4	11.144	4275470	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13843.D
Acq On : 15 Oct 2009 1:53 pm
Operator : sheilac
Sample : t39646-5,400x
Misc : op13250,Ej635,1000,,,1,400,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 16 11:28:23 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

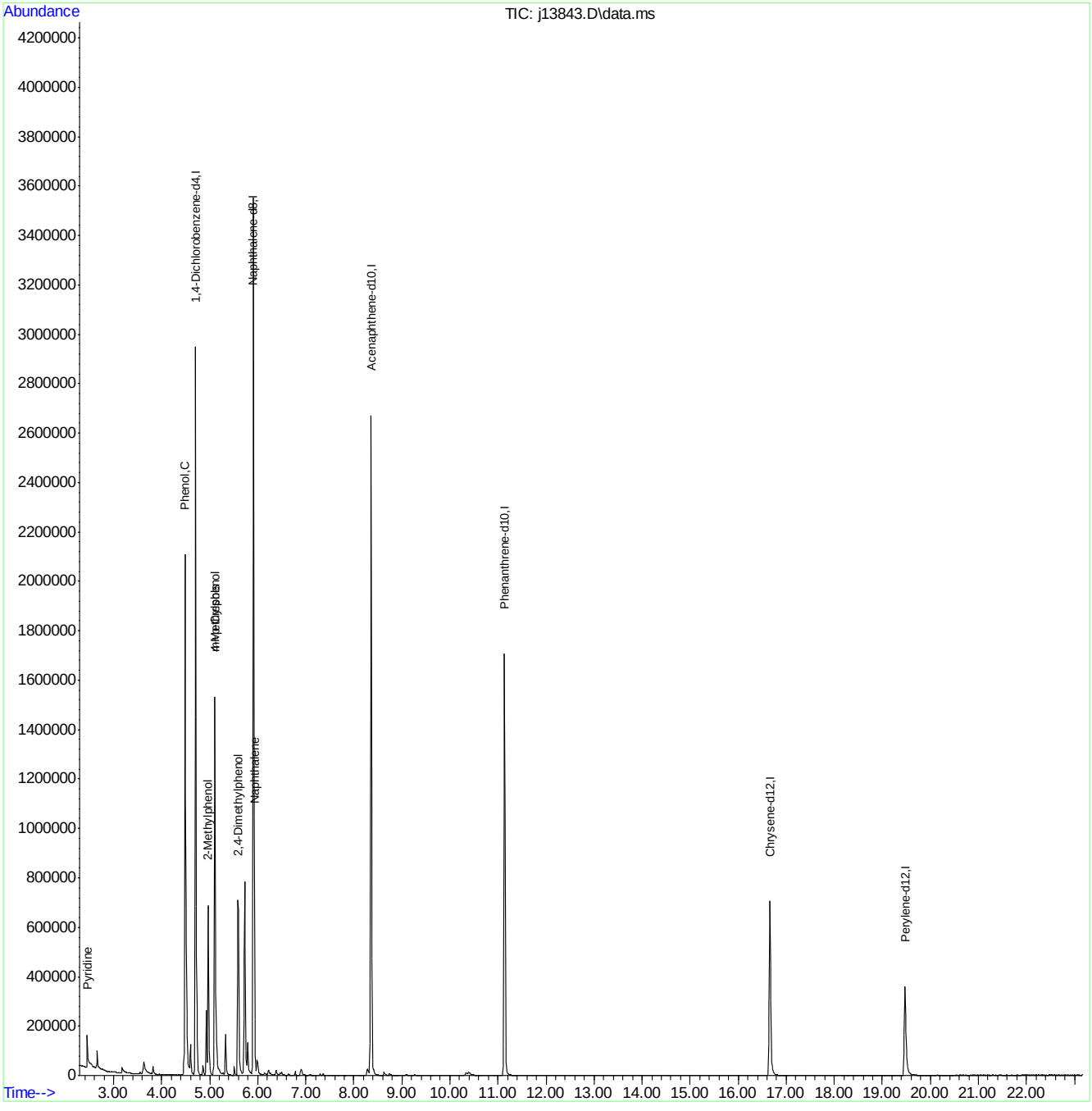
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	495656	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1738098	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	869745	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1053338	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	610108	40.00	ug/ml	-0.07
80) Perylene-d12	19.472	264	372500	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
3) Pyridine	2.447	79	83792	5.70	ug/ml	94
6) Phenol	4.485	94	935732	44.48	ug/ml#	78
14) 2-Methylphenol	4.966	108	168204	11.41	ug/ml	99
16) 4-Methylphenol	5.106	108	427258	27.39	ug/ml#	72
17) m+p-Cresols	5.106	108	427258	27.39	ug/ml#	72
25) 2,4-Dimethylphenol	5.587	122	219725	16.14	ug/ml	100
30) Naphthalene	5.935	128	461323	9.75	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

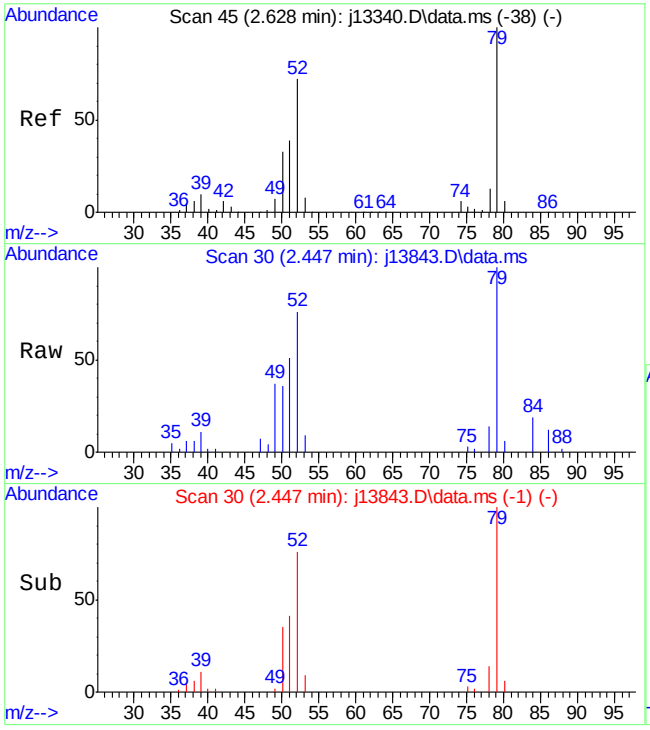
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13843.D
Acq On : 15 Oct 2009 1:53 pm
Operator : sheilac
Sample : t39646-5,400x
Misc : op13250,Ej635,1000,,,1,400,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 16 11:28:23 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



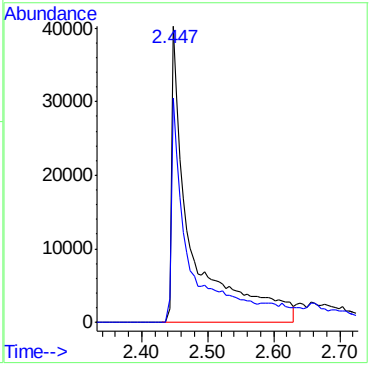
ACCUTEST Laboratories

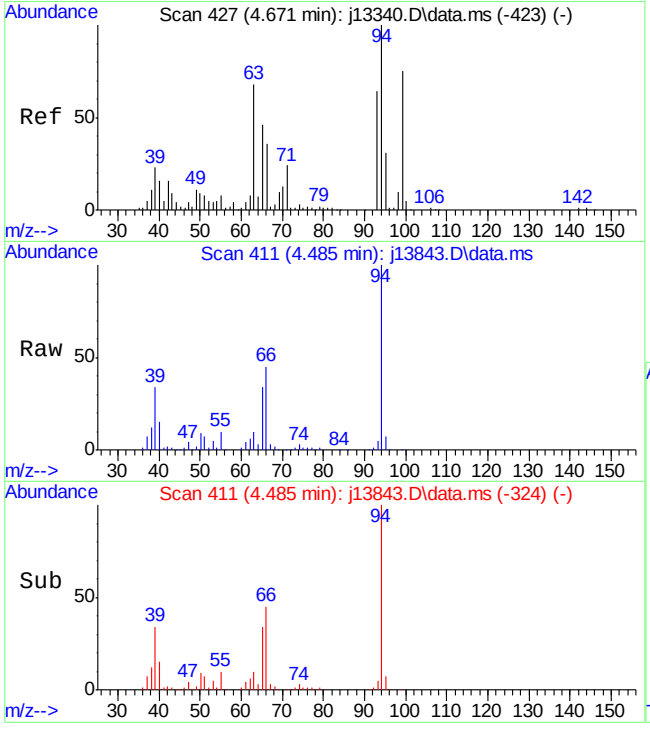


#3
Pyridine
Concen: 5.70 ug/ml
RT: 2.447 min Scan# 30
Delta R.T. 0.015 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion: 79 Resp: 83792

Ion	Ratio	Lower	Upper
79	100		
52	67.7	52.6	92.6

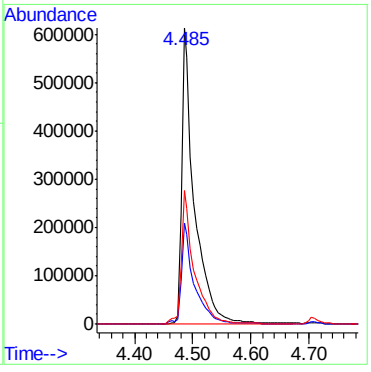




#6
Phenol
Concen: 44.48 ug/ml
RT: 4.485 min Scan# 411
Delta R.T. -0.033 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion: 94 Resp: 935732

Ion	Ratio	Lower	Upper
94	100		
65	34.8	35.3	75.3#
66	46.2	37.4	77.4



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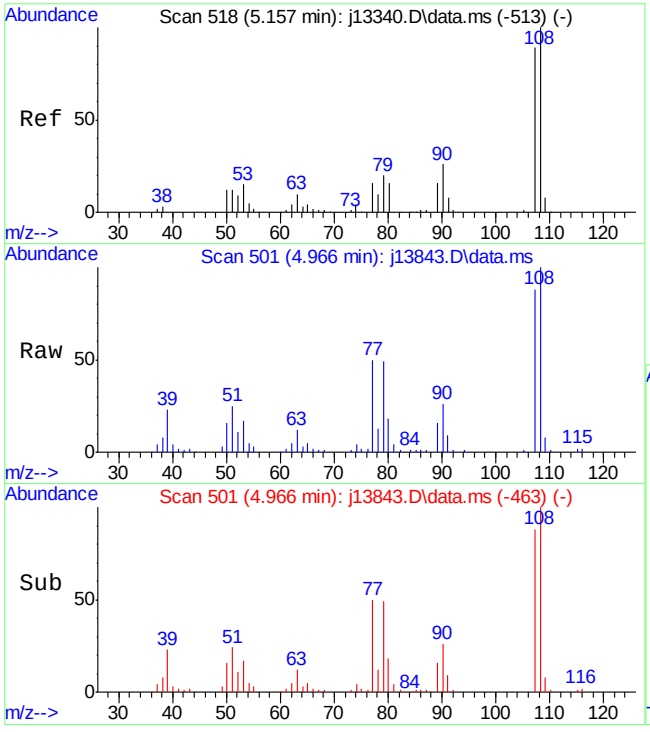
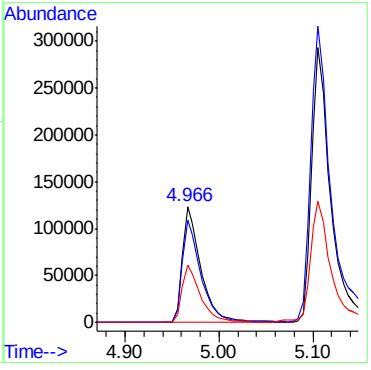
ACCUTEST Laboratories T39646

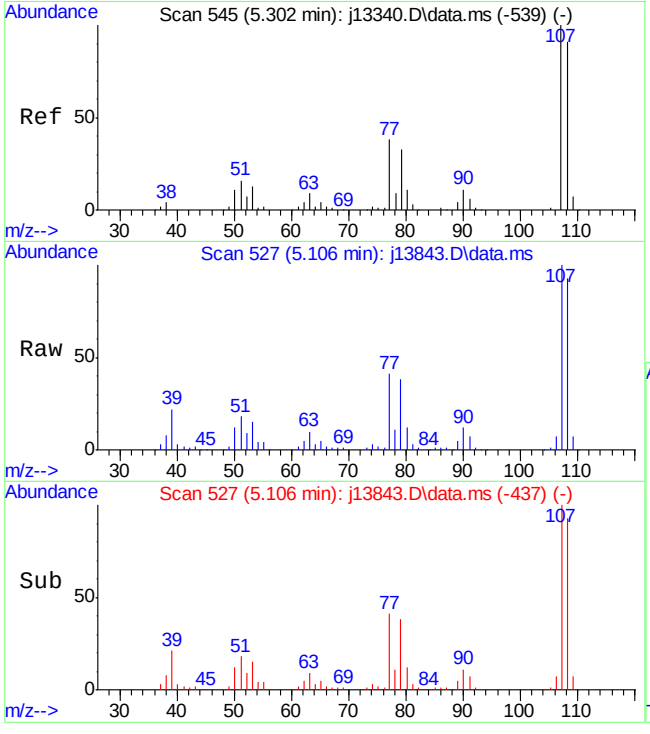


#14
2-Methylphenol
Concen: 11.41 ug/ml
RT: 4.966 min Scan# 501
Delta R.T. 0.005 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion:108 Resp: 168204

Ion	Ratio	Lower	Upper
108	100		
107	89.1	68.3	108.3
77	49.7	30.8	70.8

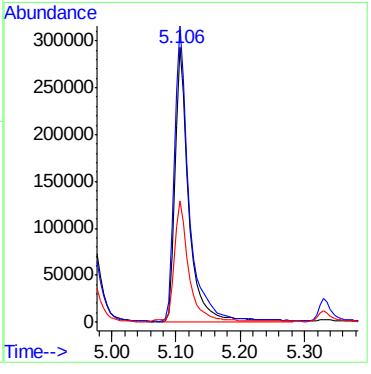




#16
4-Methylphenol
Concen: 27.39 ug/ml
RT: 5.106 min Scan# 527
Delta R.T. -0.016 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion:108 Resp: 427258

Ion	Ratio	Lower	Upper
108	100		
107	115.7	139.5	179.5#
77	46.6	36.8	76.8



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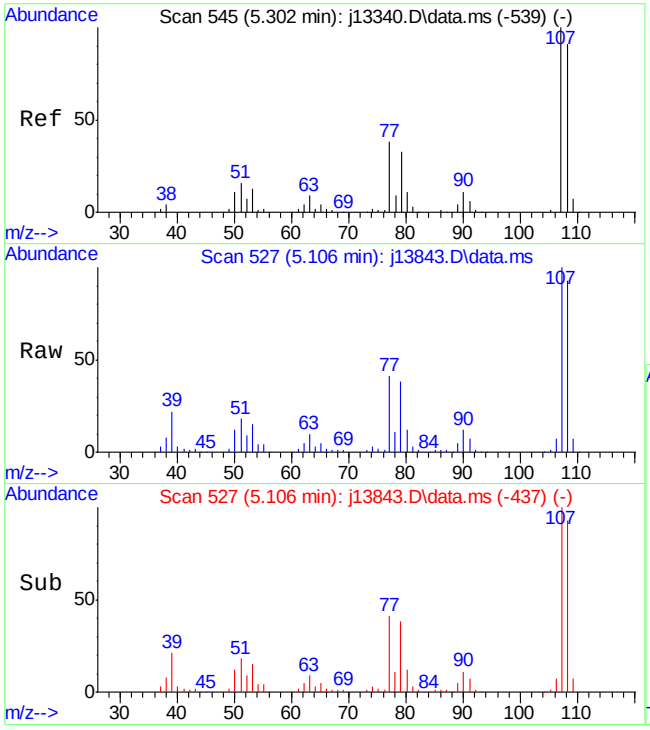
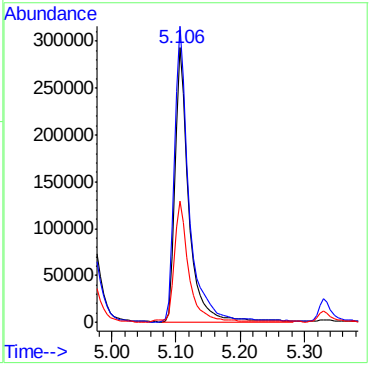
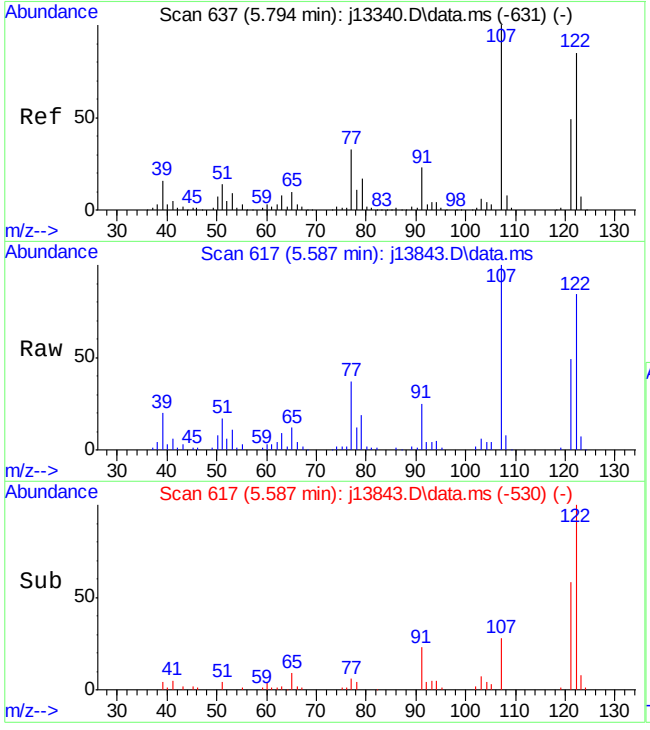


#17
m+p-Cresols
Concen: 27.39 ug/ml
RT: 5.106 min Scan# 527
Delta R.T. -0.016 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion:108 Resp: 427258

Ion	Ratio	Lower	Upper
108	100		
107	115.7	139.5	179.5#
77	46.6	36.8	76.8

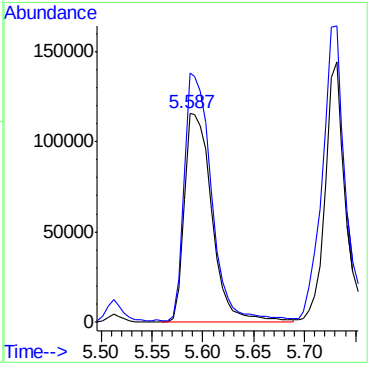


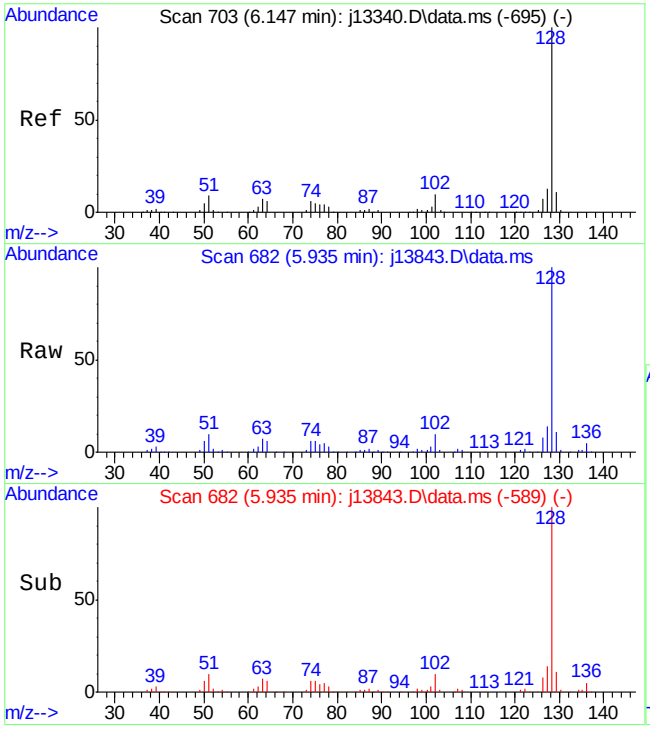


#25
2,4-Dimethylphenol
Concen: 16.14 ug/ml
RT: 5.587 min Scan# 617
Delta R.T. -0.032 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion:122 Resp: 219725

Ion	Ratio	Lower	Upper
122	100		
107	116.2	96.3	136.3

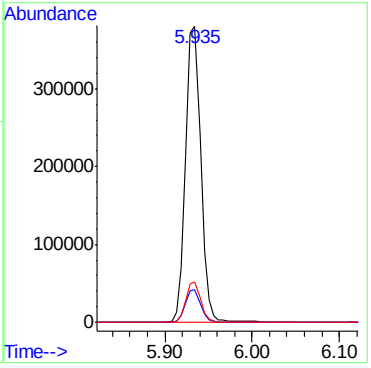




#30
Naphthalene
Concen: 9.75 ug/ml
RT: 5.935 min Scan# 682
Delta R.T. -0.000 min
Lab File: j13843.D
Acq: 15 Oct 2009 1:53 pm

Tgt Ion:128 Resp: 461323

Ion	Ratio	Lower	Upper
128	100		
129	10.7	0.0	31.2
127	13.1	0.0	33.8



8.1.16

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ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 15 18:29:00 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

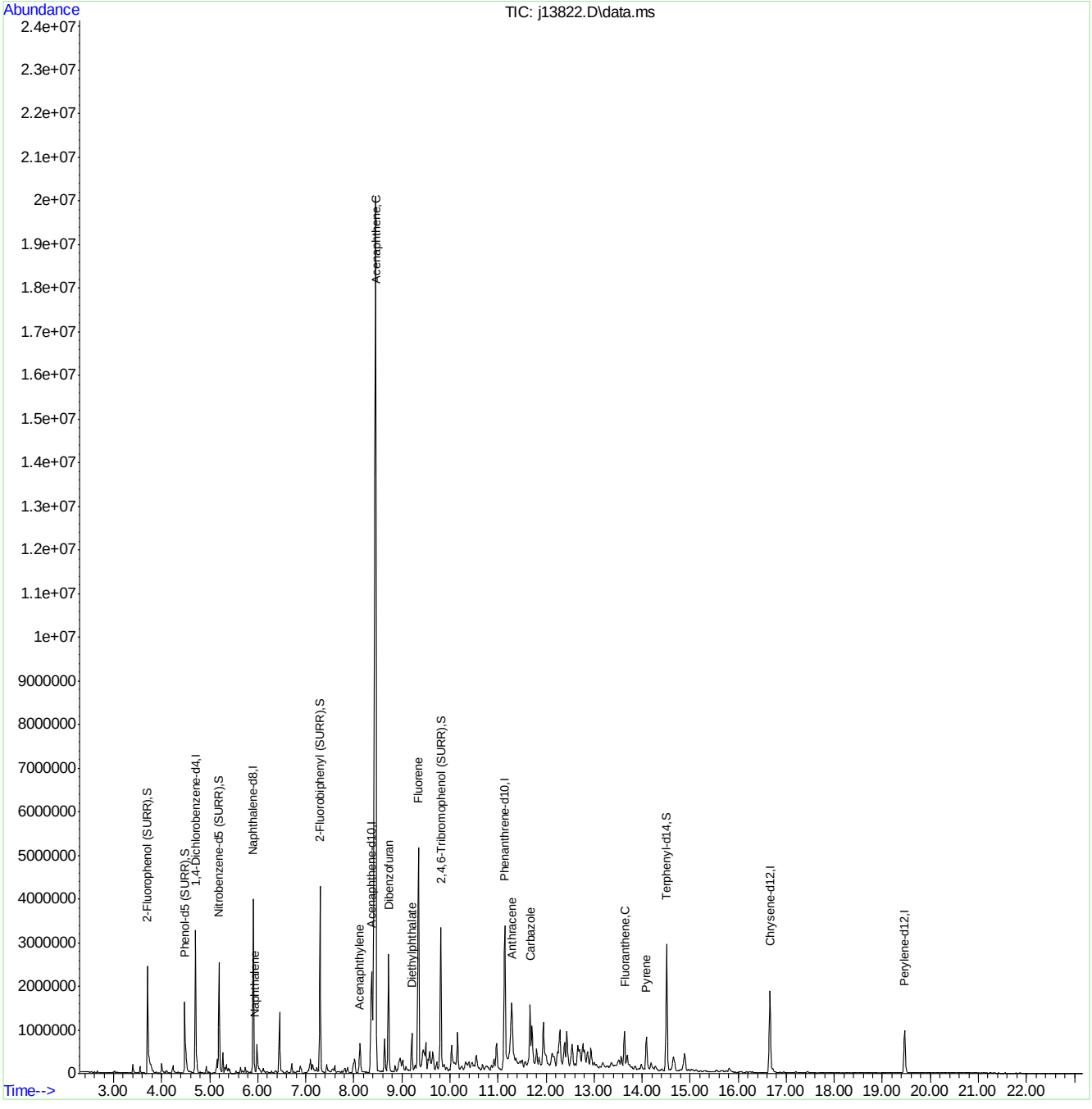
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	536985	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1960685	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.368	164	1150900	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1875953	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	1329052	40.00	ug/ml	-0.07
80) Perylene-d12	19.467	264	743714	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.704	112	884947	52.51	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 52.51%			
5) Phenol-d5 (SURR)	4.480	99	775985	36.84	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 36.84%			
21) Nitrobenzene-d5 (SURR)	5.197	82	805454	39.17	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 78.34%			
40) 2-Fluorobiphenyl (SURR)	7.299	172	1559716	34.79	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 69.58%			
62) 2,4,6-Tribromophenol (...	9.812	330	486262	77.04	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 77.04%			
74) Terphenyl-d14	14.514	244	1424955	44.90	ug/ml	-0.08
Spiked Amount 50.000	Range 12 - 145		Recovery = 89.80%			
Target Compounds						Qvalue
30) Naphthalene	5.929	128	53321	1.00	ug/ml#	68
44) Acenaphthylene	8.117	152	148386	2.72	ug/ml	83
47) Acenaphthene	8.459	154	11978560	374.07	ug/ml	99
50) Dibenzofuran	8.727	168	1596378	34.90	ug/ml	98
53) Diethylphthalate	9.208	149	454613	11.34	ug/ml	99
54) Fluorene	9.347	166	2197749	55.13	ug/ml	98
67) Anthracene	11.283	178	397783	7.39	ug/ml	91
68) Carbazole	11.674	167	1049352	24.22	ug/ml	98
70) Fluoranthene	13.637	202	607764	11.99	ug/ml	98
73) Pyrene	14.091	202	510621	10.90	ug/ml	88

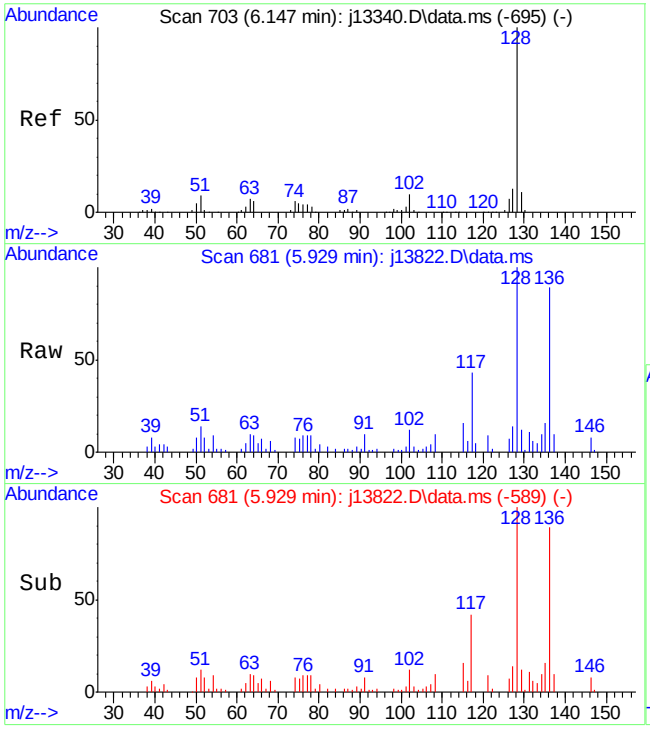
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 15 18:29:00 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

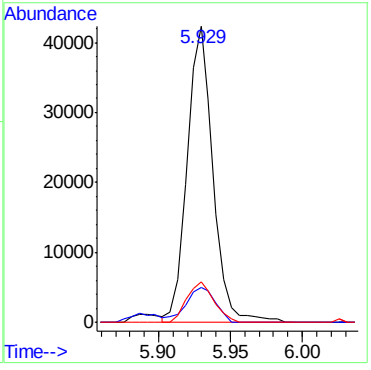


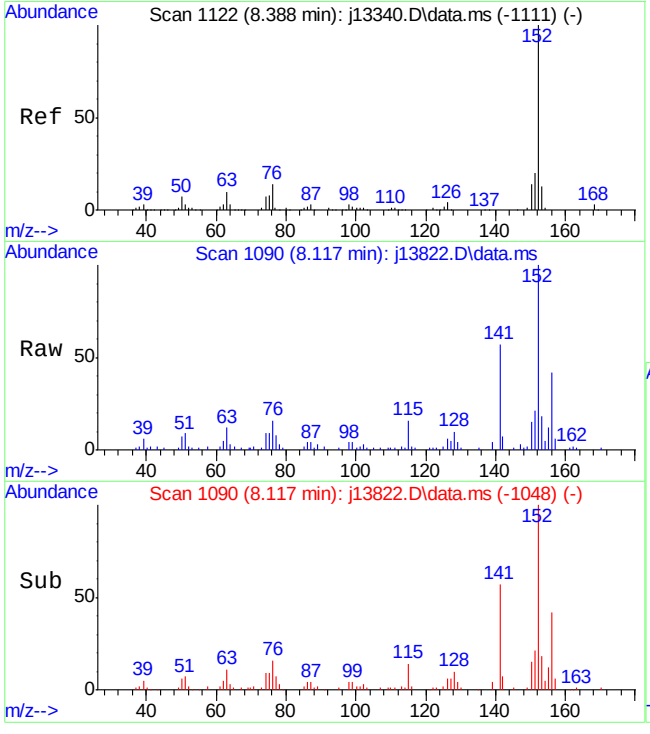


#30
Naphthalene
Concen: 1.00 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:128 Resp: 53321

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	31.2
127	0.0	0.0	33.8

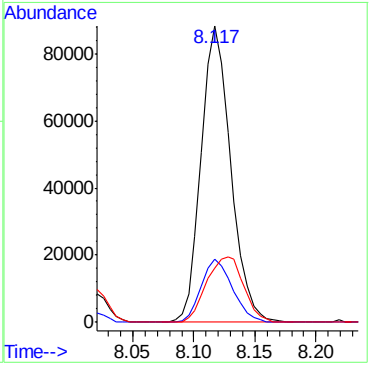


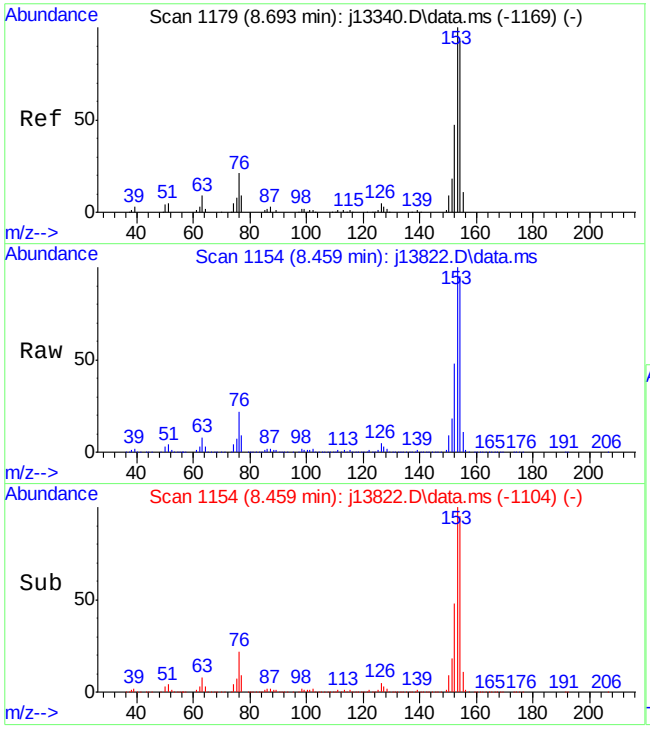


#44
Acenaphthylene
Concen: 2.72 ug/ml
RT: 8.117 min Scan# 1090
Delta R.T. -0.277 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:152 Resp: 148386

Ion	Ratio	Lower	Upper
152	100		
151	22.2	0.2	40.2
153	27.5	0.0	33.0

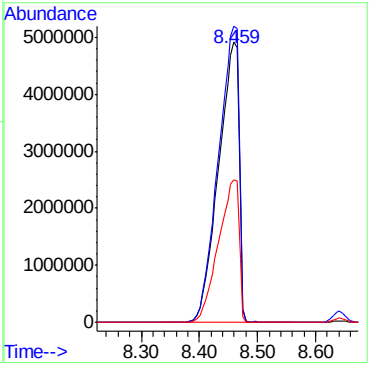


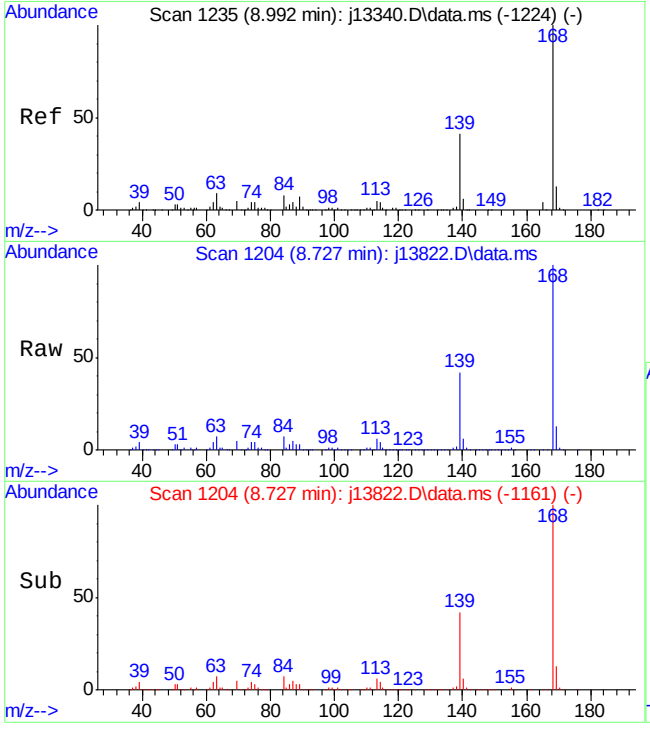


#47
Acenaphthene
Concen: 374.07 ug/ml
RT: 8.459 min Scan# 1154
Delta R.T. -0.234 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:154 Resp:11978560

Ion	Ratio	Lower	Upper
154	100		
153	107.0	87.9	127.9
152	51.3	31.3	71.3

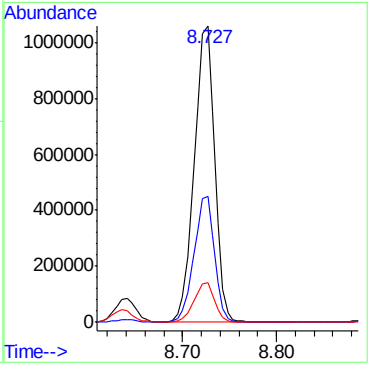


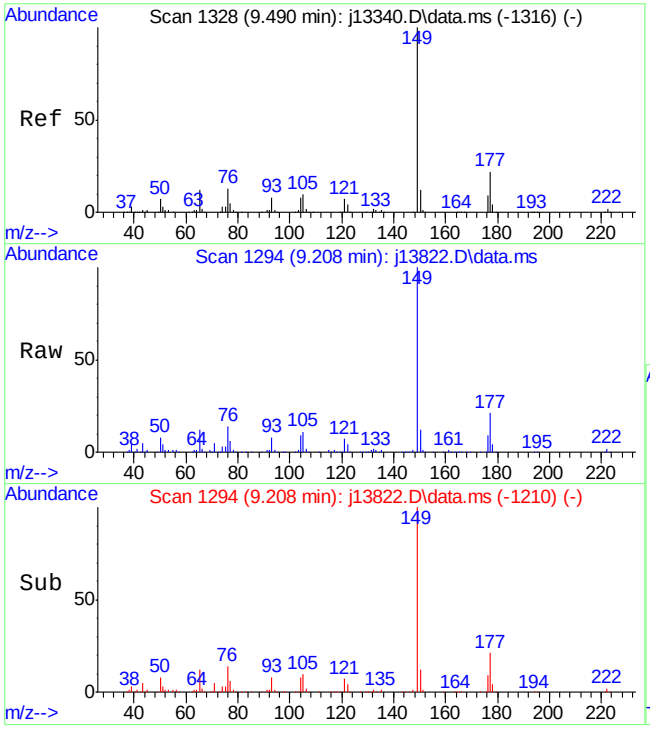


#50
Dibenzofuran
Concen: 34.90 ug/ml
RT: 8.727 min Scan# 1204
Delta R.T. -0.271 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:168 Resp: 1596378

Ion	Ratio	Lower	Upper
168	100		
139	42.7	21.2	61.2
169	13.4	0.0	33.2

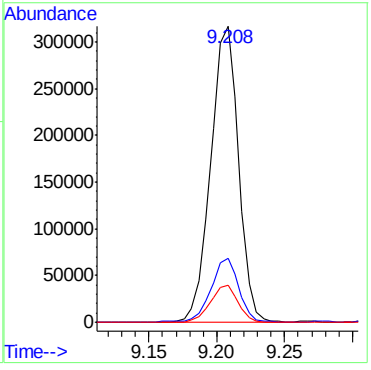


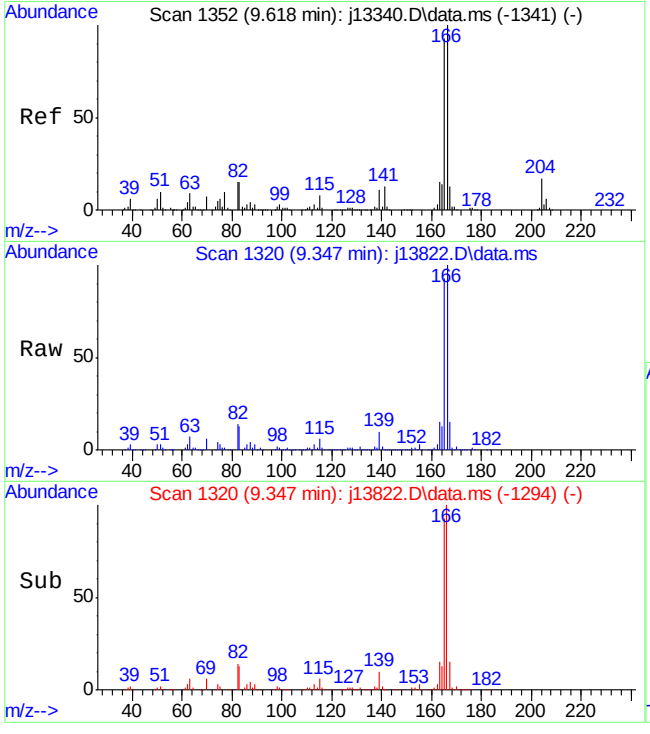


#53
Diethylphthalate
Concen: 11.34 ug/ml
RT: 9.208 min Scan# 1294
Delta R.T. -0.048 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:149 Resp: 454613

Ion	Ratio	Lower	Upper
149	100		
177	21.9	2.2	42.2
150	12.5	0.0	32.2

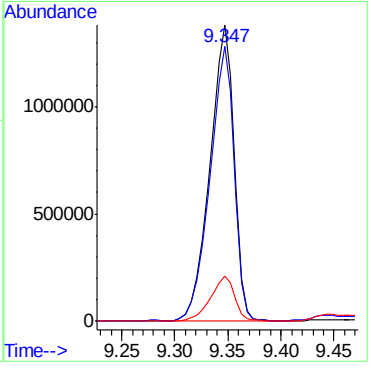


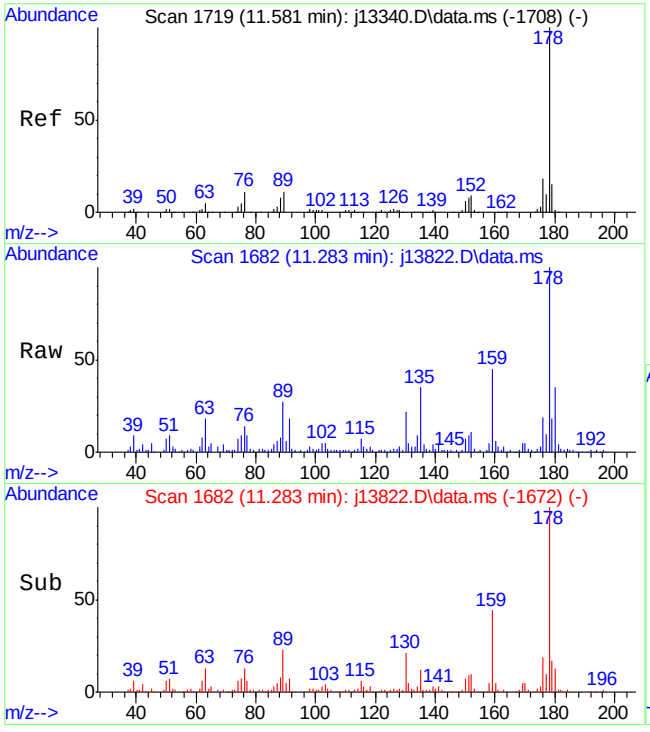


#54
Fluorene
Concen: 55.13 ug/ml
RT: 9.347 min Scan# 1320
Delta R.T. -0.059 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:166 Resp: 2197749

Ion	Ratio	Lower	Upper
166	100		
165	92.7	73.8	113.8
167	15.1	0.0	33.3

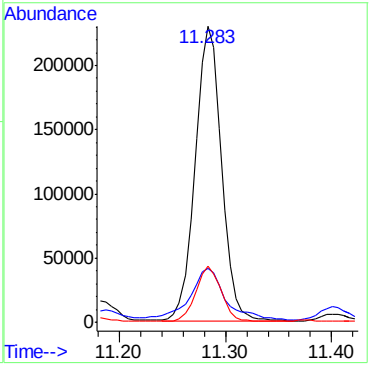


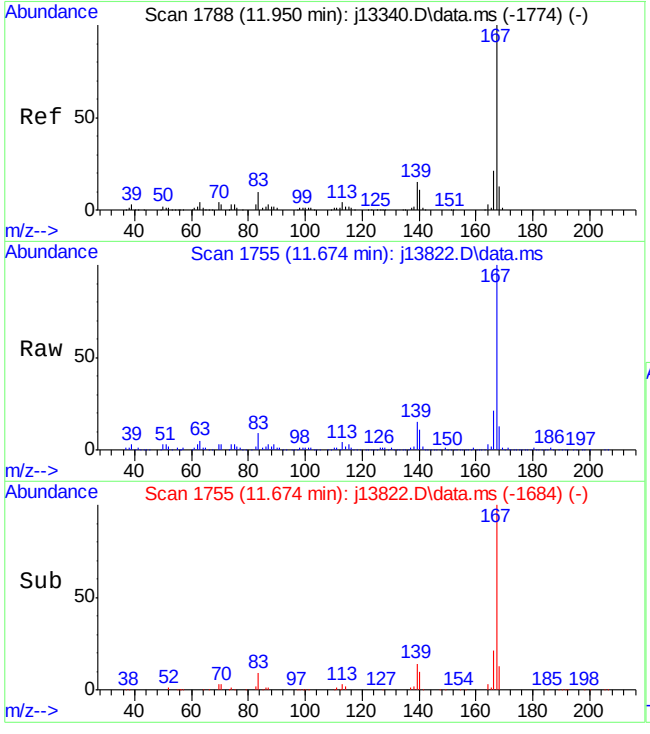


#67
Anthracene
Concen: 7.39 ug/ml
RT: 11.283 min Scan# 1682
Delta R.T. -0.146 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:178 Resp: 397783

Ion	Ratio	Lower	Upper
178	100		
179	22.7	0.0	35.1
176	18.1	0.0	38.3

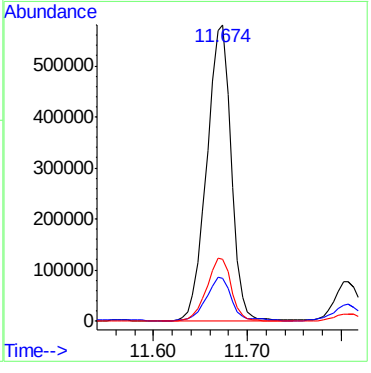


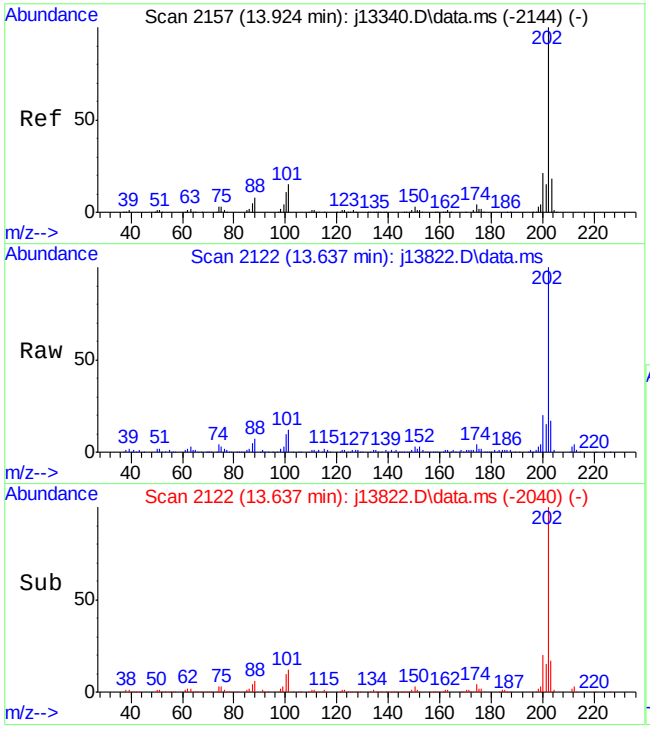


#68
Carbazole
Concen: 24.22 ug/ml
RT: 11.674 min Scan# 1755
Delta R.T. -0.120 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:167 Resp: 1049352

Ion	Ratio	Lower	Upper
167	100		
139	15.1	0.0	34.1
166	21.6	0.9	40.9

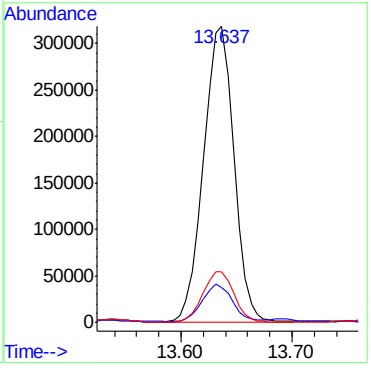


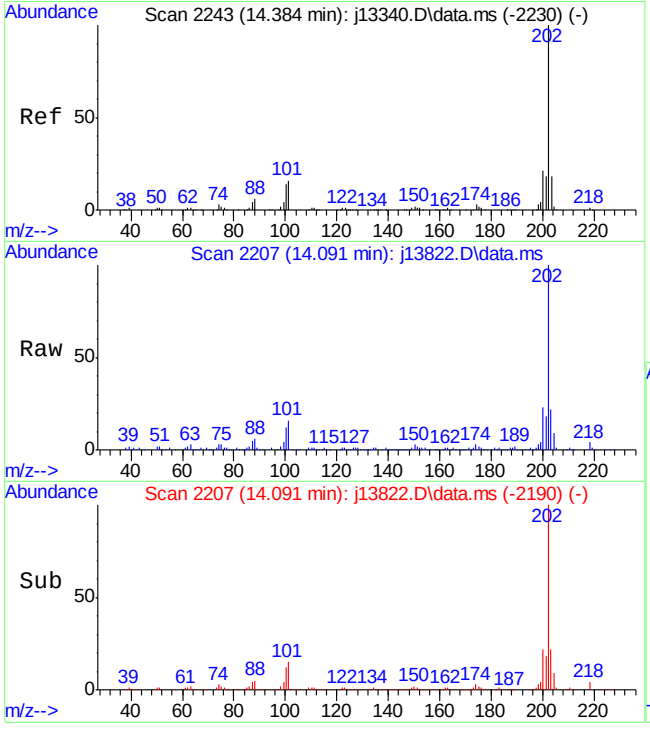


#70
Fluoranthene
Concen: 11.99 ug/ml
RT: 13.637 min Scan# 2122
Delta R.T. -0.064 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:202 Resp: 607764

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	33.9
203	17.4	0.0	37.3

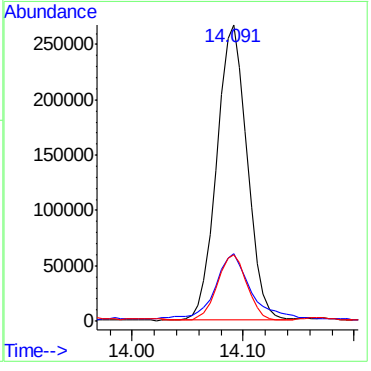




#73
Pyrene
Concen: 10.90 ug/ml
RT: 14.091 min Scan# 2207
Delta R.T. -0.109 min
Lab File: j13822.D
Acq: 14 Oct 2009 6:07 pm

Tgt Ion:202 Resp: 510621

Ion	Ratio	Lower	Upper
202	100		
200	27.5	0.5	40.5
203	21.6	0.0	37.8



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13822.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.704	262	265	285	rBV	2451354	3513014	7.01%	2.219%
2	4.480	407	410	425	rVB	1596486	2397187	4.78%	1.514%
3	4.704	448	452	468	rVB	3263918	3623981	7.23%	2.289%
4	5.197	539	544	554	rVV	2529235	2953403	5.89%	1.865%
5	5.908	669	677	686	rBV	3980446	4862239	9.70%	3.071%
6	5.983	686	691	698	rBV	628751	943292	1.88%	0.596%
7	6.453	769	779	799	rVB	1403993	1994755	3.98%	1.260%
8	7.101	890	900	904	rBV	276677	513210	1.02%	0.324%
9	7.299	928	937	946	rVB	4258758	5477050	10.93%	3.459%
10	8.133	1084	1093	1102	rBV4	673947	1296755	2.59%	0.819%
11	8.368	1125	1137	1142	rBV	2312287	5497996	10.97%	3.473%
12	8.459	1142	1154	1158	rVB2	20007317	50127952	100.00%	31.662%
13	8.641	1181	1188	1195	rBV2	757090	1229828	2.45%	0.777%
14	8.727	1196	1204	1215	rVB	2691672	4129652	8.24%	2.608%
15	8.967	1239	1249	1254	rVV2	304457	901718	1.80%	0.570%
16	9.208	1288	1294	1299	rBV	872748	1251509	2.50%	0.790%
17	9.347	1310	1320	1328	rBV	5054707	8191034	16.34%	5.174%
18	9.443	1329	1338	1340	rVV5	438009	907534	1.81%	0.573%
19	9.497	1344	1348	1353	rVV2	609964	920379	1.84%	0.581%
20	9.577	1360	1363	1369	rVV2	399202	745603	1.49%	0.471%
21	9.647	1371	1376	1384	rVB2	424642	814024	1.62%	0.514%
22	9.812	1397	1407	1414	rVV	3247578	5743137	11.46%	3.628%
23	10.032	1442	1448	1457	rBV2	559323	1262616	2.52%	0.798%
24	10.160	1466	1472	1479	rVB	829125	1362165	2.72%	0.860%
25	10.326	1495	1503	1510	rBV5	173404	517696	1.03%	0.327%
26	10.551	1538	1545	1554	rVB6	306543	743636	1.48%	0.470%
27	10.973	1618	1624	1635	rVB	596488	1137644	2.27%	0.719%
28	11.144	1644	1656	1667	rBV2	3300048	7085676	14.14%	4.476%
29	11.283	1671	1682	1695	rVV3	1435303	5003772	9.98%	3.161%
30	11.668	1747	1754	1758	rBV	1320462	2329132	4.65%	1.471%
31	11.711	1758	1762	1770	rVB	872874	1537174	3.07%	0.971%
32	11.807	1775	1780	1785	rVB2	349167	597619	1.19%	0.377%
33	11.947	1799	1806	1814	rBV	955769	2052847	4.10%	1.297%
34	12.123	1834	1839	1844	rBV4	236594	519720	1.04%	0.328%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	12.241	1855	1861	1863	rBV	316690	530246	1.06%	0.335%
36	12.289	1863	1870	1880	rVV3	824832	2094780	4.18%	1.323%
37	12.385	1880	1888	1892	rVV2	542101	1164266	2.32%	0.735%
38	12.433	1892	1897	1907	rVB2	797774	1750363	3.49%	1.106%
39	12.546	1908	1918	1926	rVV4	494331	1187297	2.37%	0.750%
40	12.663	1933	1940	1944	rBV3	455846	1012101	2.02%	0.639%
41	12.765	1953	1959	1963	rBV	409067	758250	1.51%	0.479%
42	12.861	1972	1977	1985	rVB2	281435	582467	1.16%	0.368%
43	12.936	1985	1991	1999	rVB3	384680	748605	1.49%	0.473%
44	13.631	2115	2121	2127	rBV	778437	1425123	2.84%	0.900%
45	14.091	2199	2207	2219	rVV	752533	1596696	3.19%	1.009%
46	14.514	2276	2286	2296	rBV	2894993	5134178	10.24%	3.243%
47	14.648	2304	2311	2325	rVB4	312587	1043274	2.08%	0.659%
48	14.888	2344	2356	2365	rVB	380864	1061718	2.12%	0.671%
49	16.664	2676	2688	2696	rBV	1889068	3965600	7.91%	2.505%
50	19.467	3202	3212	3224	rBV	976096	2080328	4.15%	1.314%

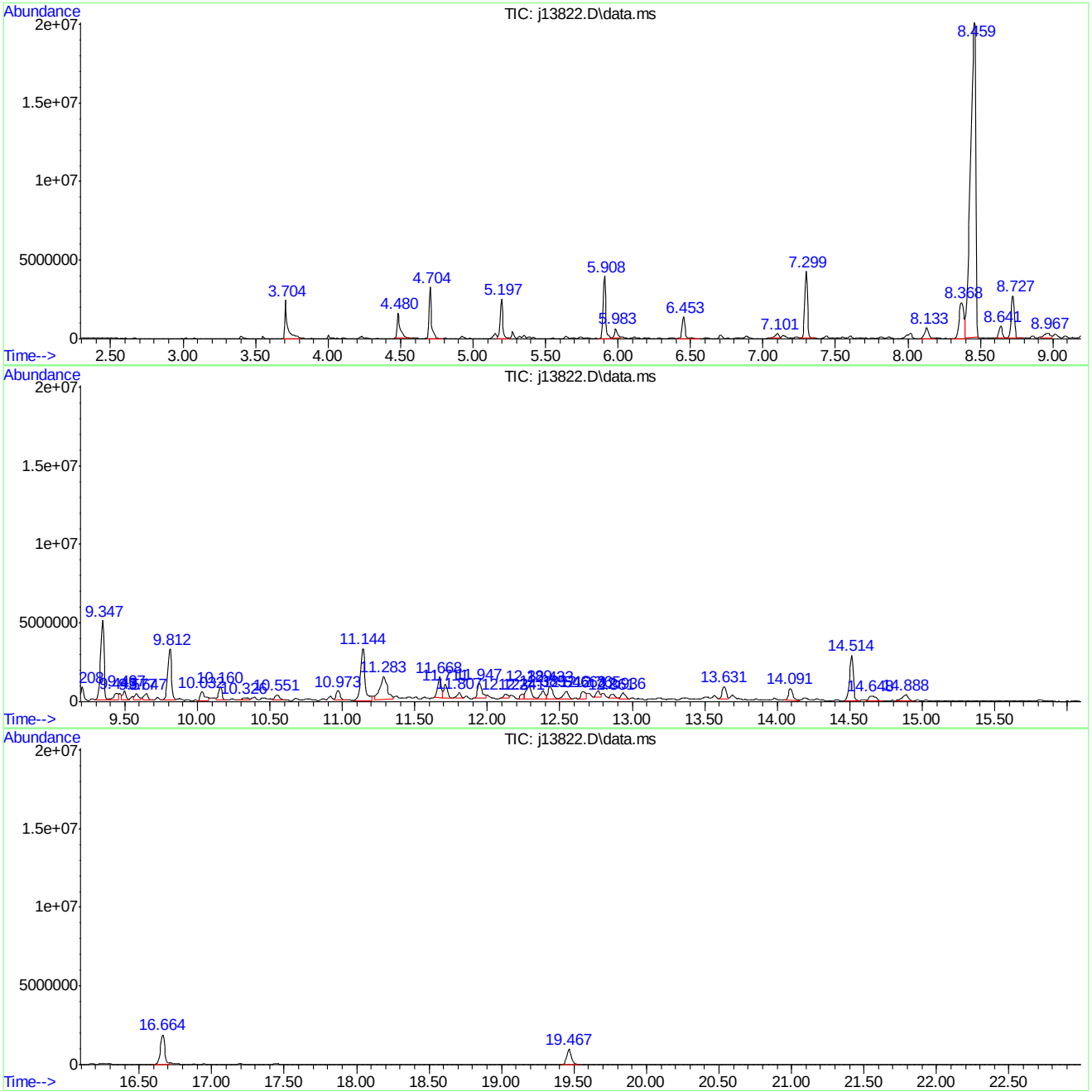
Sum of corrected areas: 158320241

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

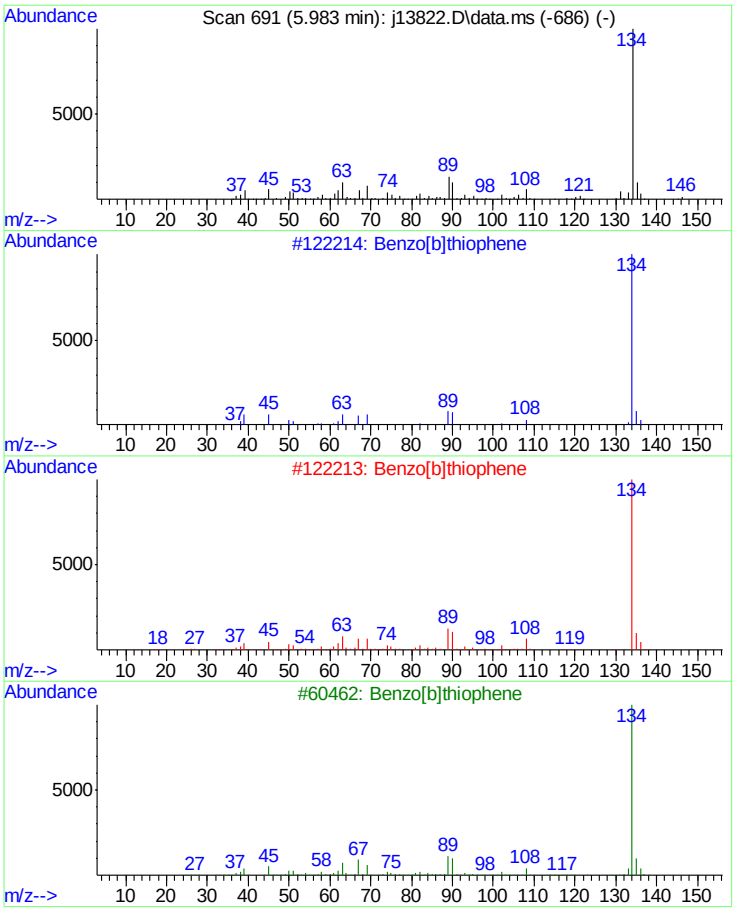
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

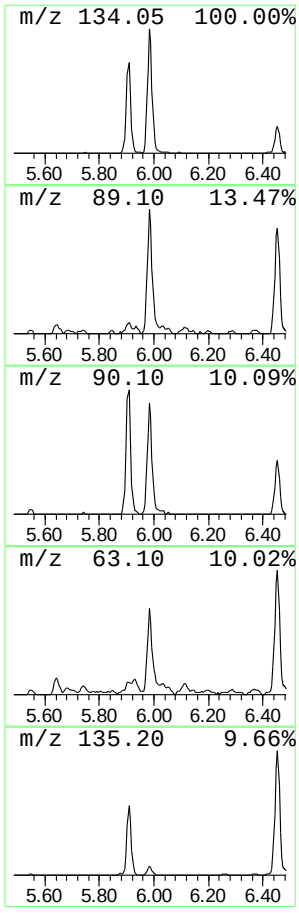
****

Peak Number 1 Benzo[b]thiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.983	7.76 ug/ml	943292	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	93
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	93
4	Benzo[c]thiophene	134	C8H6S	000270-82-6	93
5	Cyclopenta[b]thiapyran	134	C8H6S	000271-17-0	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

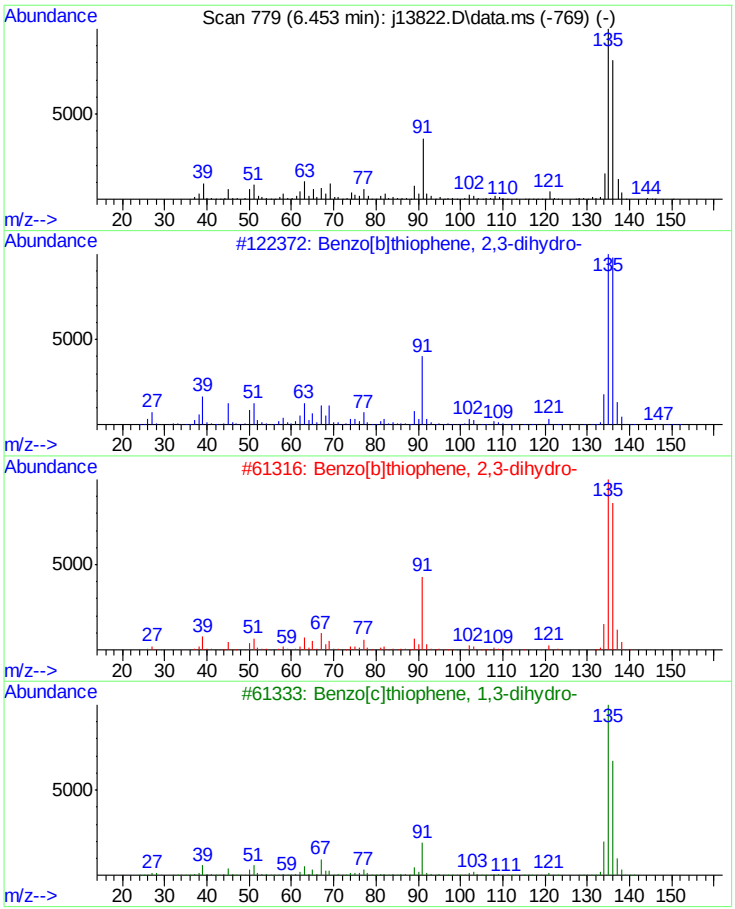
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

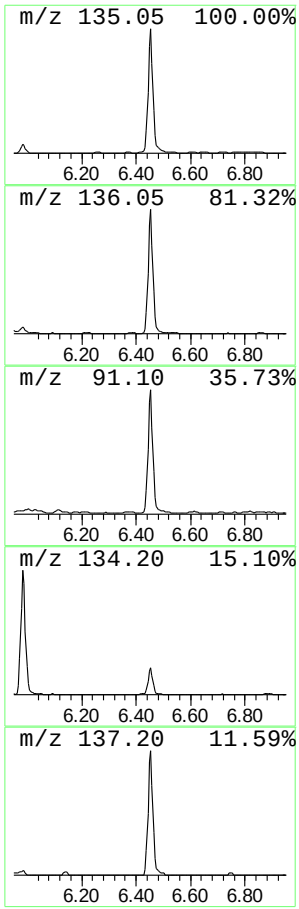
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.453	16.41 ug/ml	1994760	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	94
2	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	92
3	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S	002471-92-3	87
4	Benzene, (ethenylthio)-	136	C8H8S	001822-73-7	72
5	Benzaldehyde, 4-methoxy-	136	C8H8O2	000123-11-5	72





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

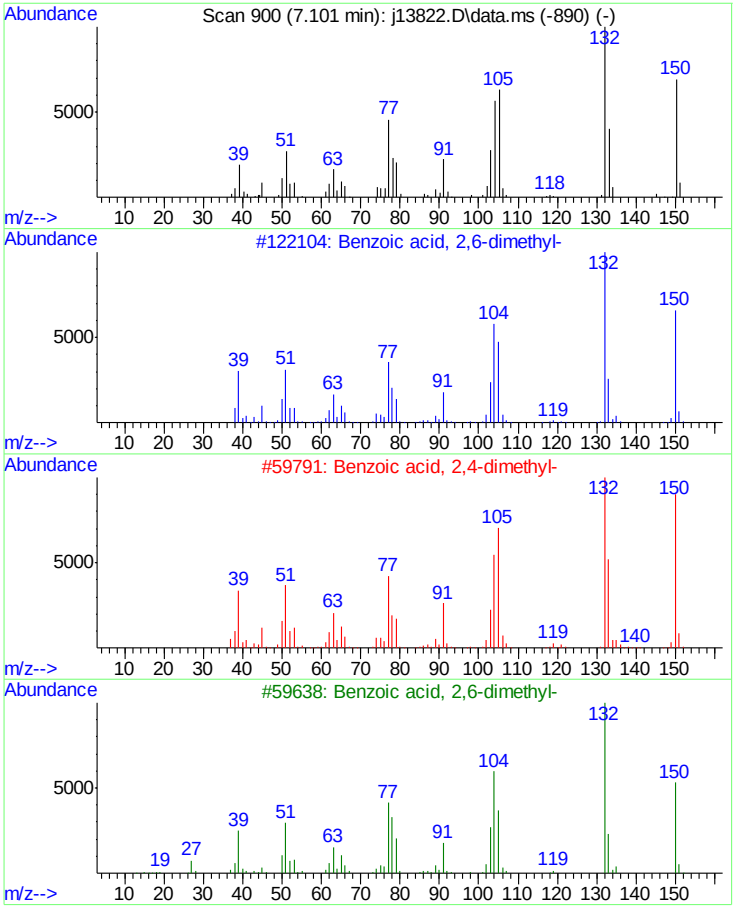
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

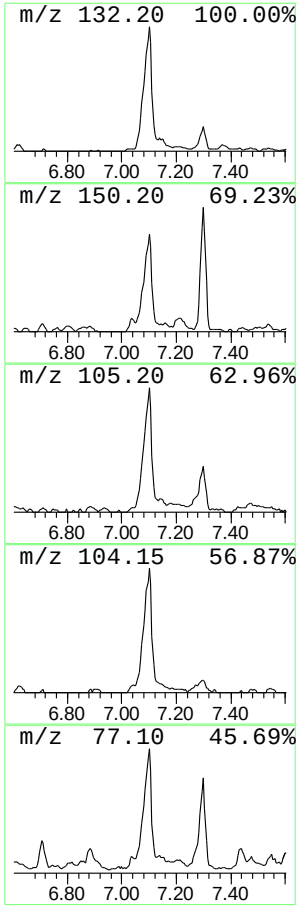
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzoic acid, 2,6-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.101	4.22 ug/ml	513210	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2,6-dimethyl-	150	C9H10O2	000632-46-2	95
2	Benzoic acid, 2,4-dimethyl-	150	C9H10O2	000611-01-8	93
3	Benzoic acid, 2,6-dimethyl-	150	C9H10O2	000632-46-2	91
4	Benzoic acid, 2,4-dimethyl-	150	C9H10O2	000611-01-8	87
5	Benzoic acid, 2,5-dimethyl-	150	C9H10O2	000610-72-0	70





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

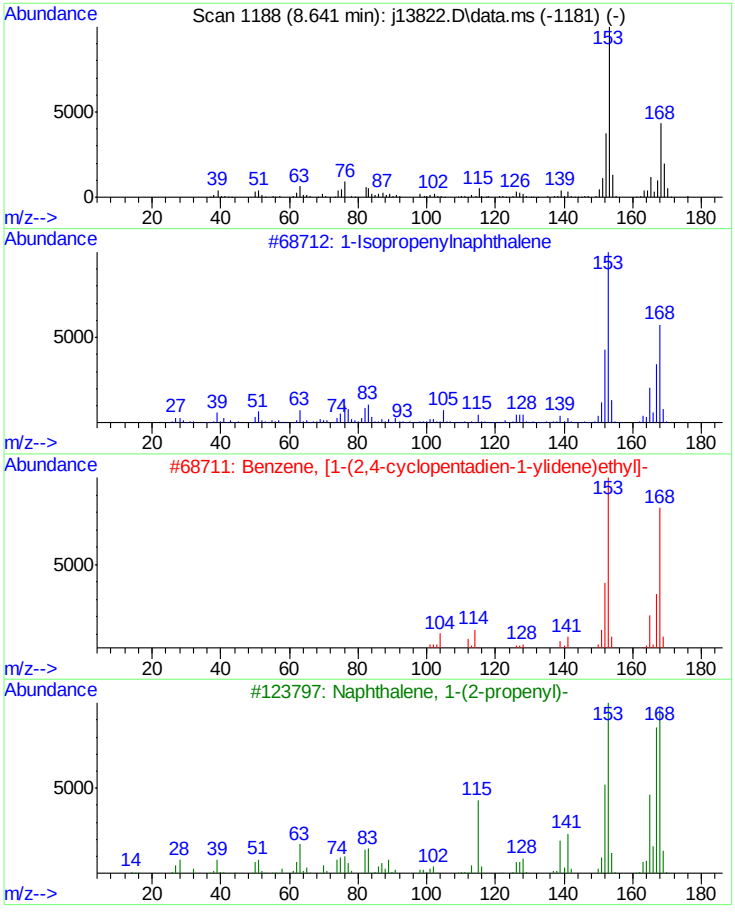
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

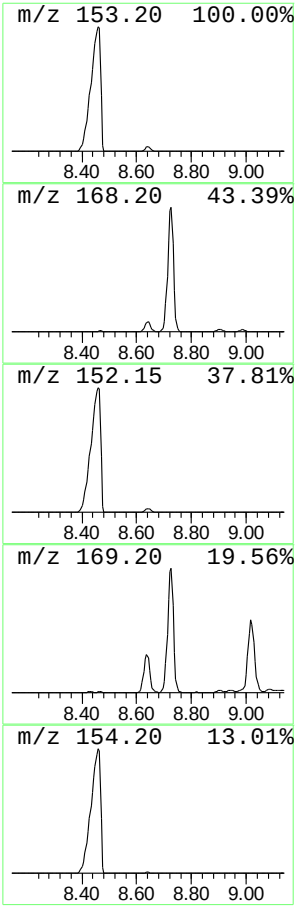
****

Peak Number 4 1-Isopropenylnaphthalene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.641	8.95 ug/ml	1229830	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	74
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	64
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	59
4	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	50
5	1,1,4,4-Tetramethyl-1,4-disilacy...	168	C8H16Si2	020627-53-6	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

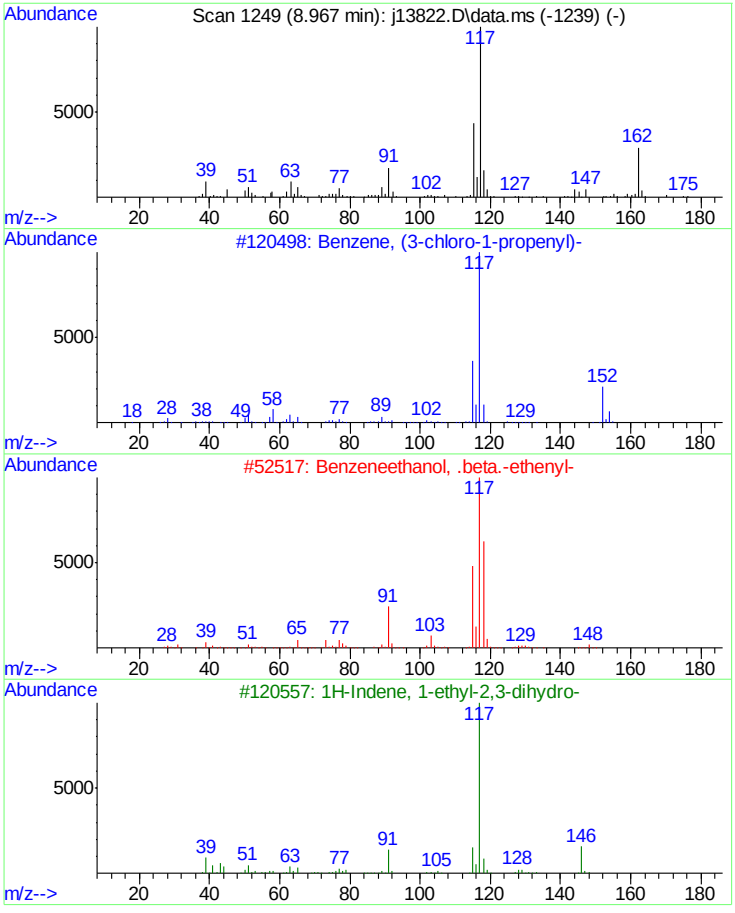
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

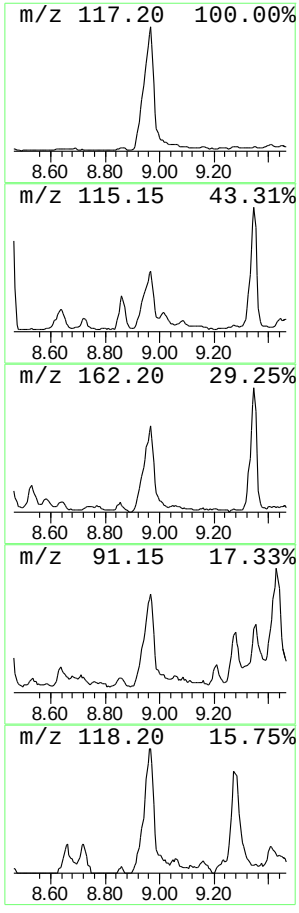
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, (3-chloro-1-propen... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.967	6.56 ug/ml	901718	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-chloro-1-propenyl)-	152	C9H9Cl	002687-12-9	59
2	Benzeneethanol, .beta.-ethenyl-	148	C10H12O	006052-63-7	53
3	1H-Indene, 1-ethyl-2,3-dihydro-	146	C11H14	004830-99-3	50
4	1H-Indene, 1-ethyl-2,3-dihydro-	146	C11H14	004830-99-3	47
5	Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	45





Library Search Compound Report

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Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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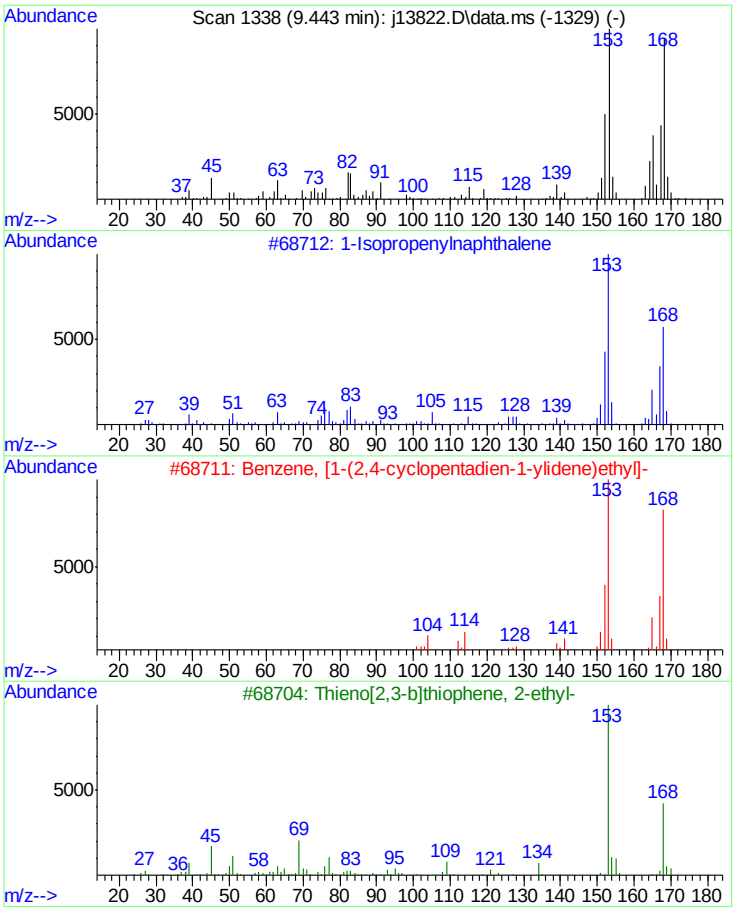
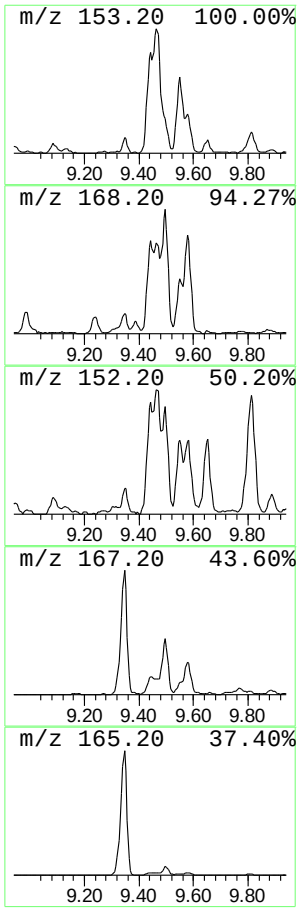
Peak Number 6 1-Isopropenylnaphthalene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.443	6.60 ug/ml	907534	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	93
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	87
3	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	43
4	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	37
5	3-Hydroxy-4-methoxybenzoic acid	168	C8H8O4	000645-08-9	37





Library Search Compound Report

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Operator : sheilac
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Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

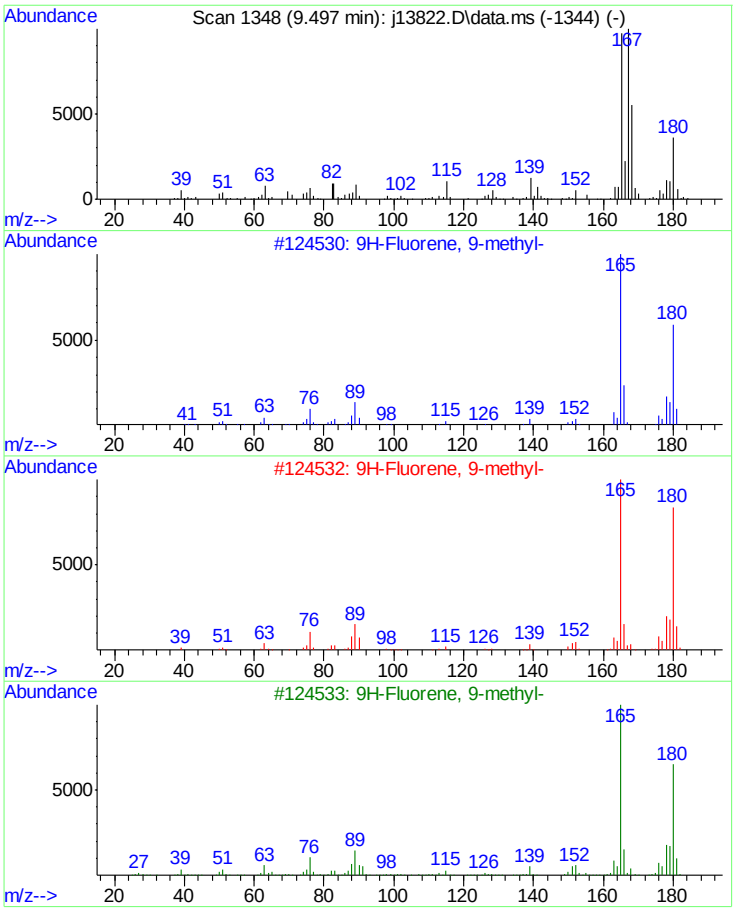
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

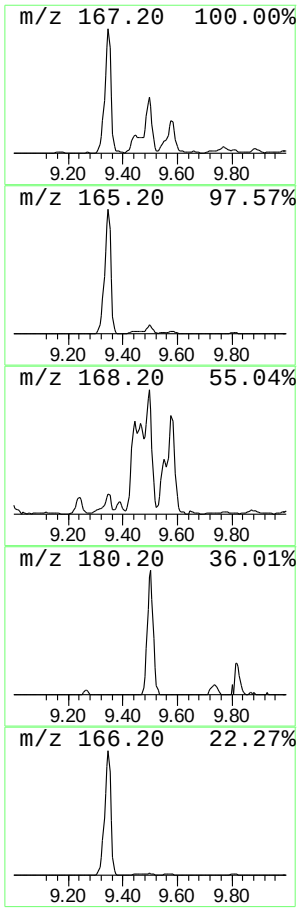
****

Peak Number 7 9H-Fluorene, 9-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.497	6.70 ug/ml	920379	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	50
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	46
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	41
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	41
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	38





Library Search Compound Report

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Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

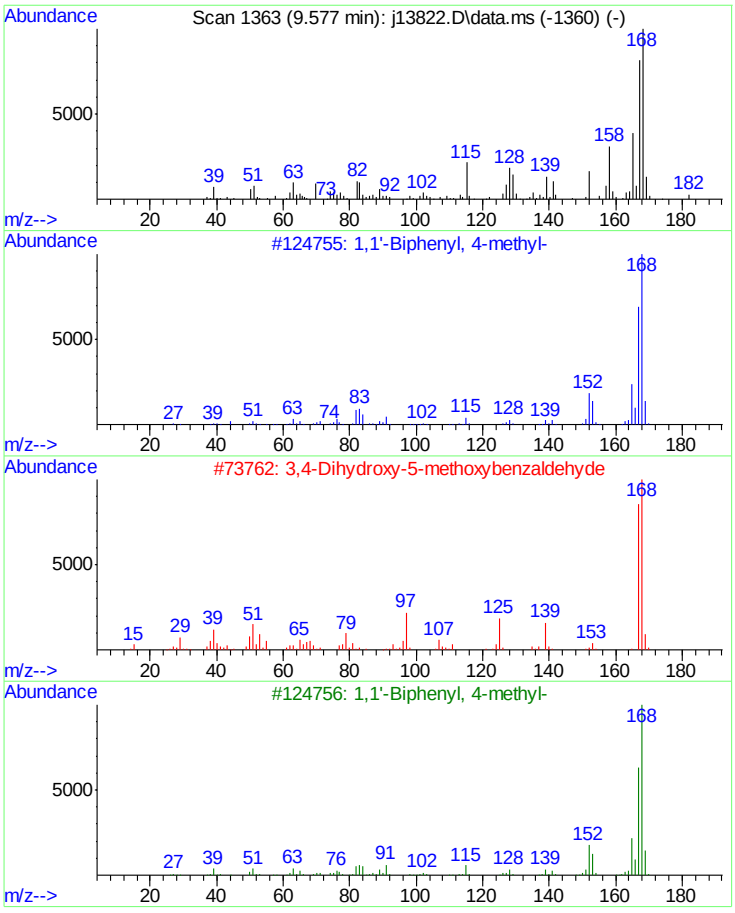
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

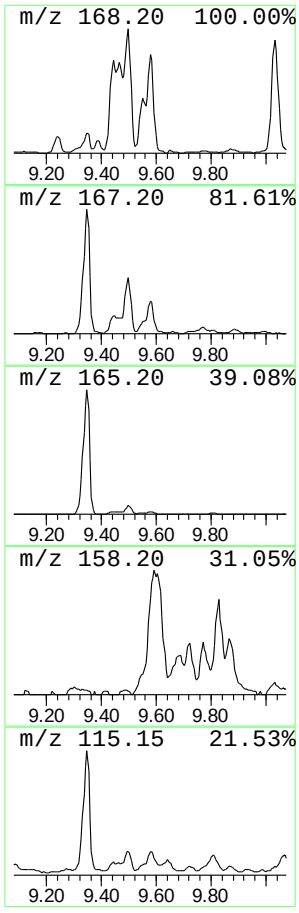
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1,1'-Biphenyl, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.577	5.42 ug/ml	745603	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	52
2	3,4-Dihydroxy-5-methoxybenzaldehyde	168	C8H8O4	003934-87-0	52
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	52
4	Diphenylmethane	168	C13H12	000101-81-5	52
5	Diphenylmethane	168	C13H12	000101-81-5	52





Library Search Compound Report

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ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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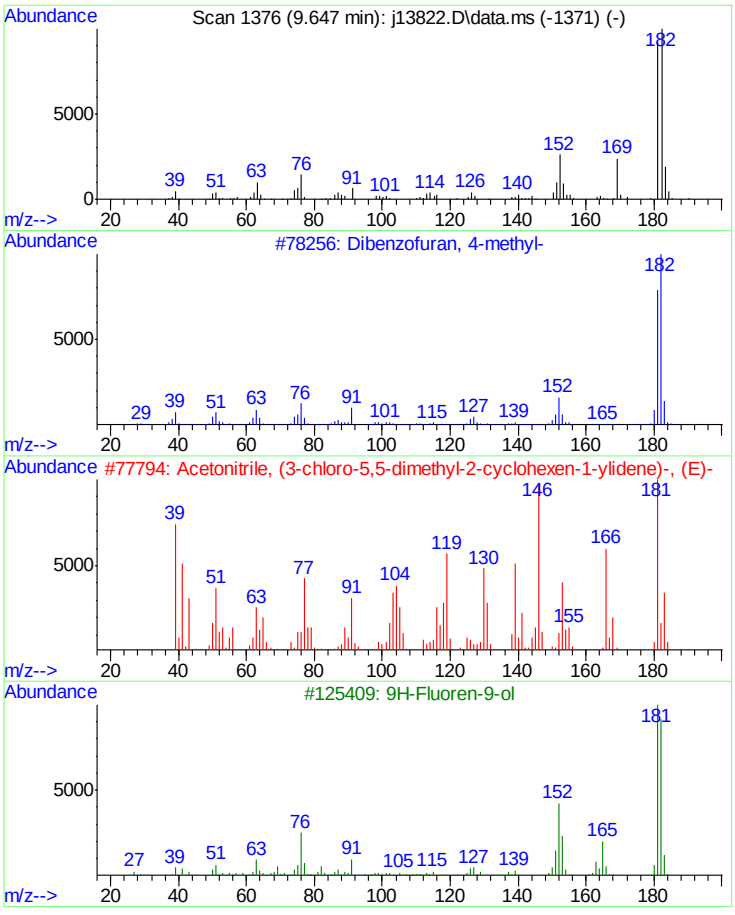
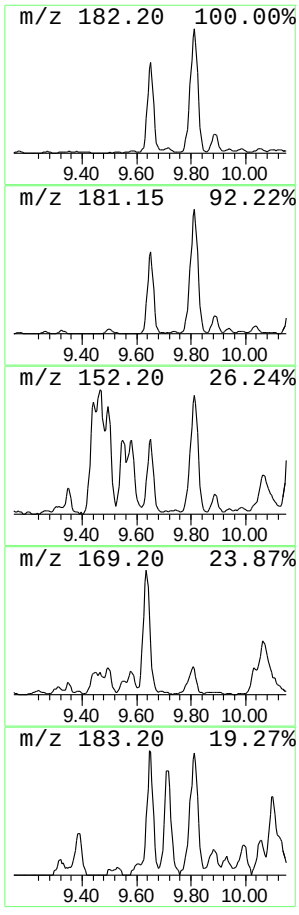
Peak Number 9 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.647	5.92 ug/ml	814024	Acenaphthene-d10	8.368

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
2	Acetonitrile, (3-chloro-5,5-dime...	181	C10H12ClN	076399-17-2	83
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	64
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	56
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	53





Library Search Compound Report

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Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

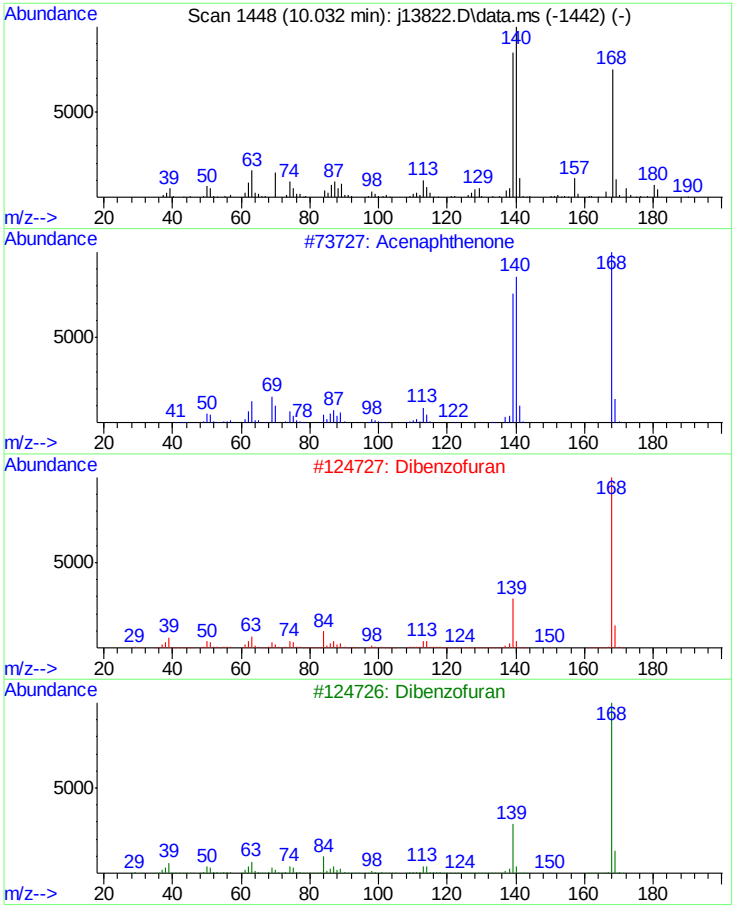
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

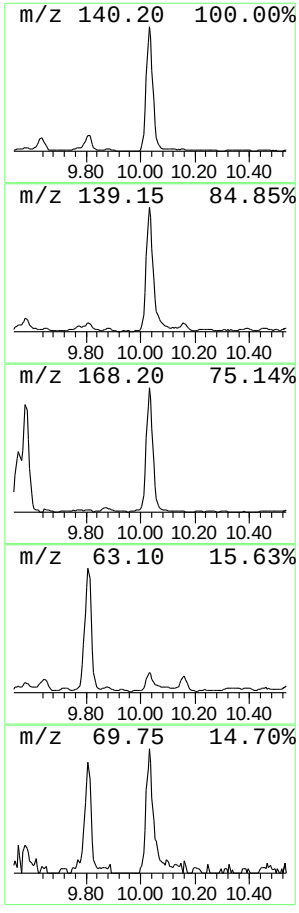
****

Peak Number 10 Acenaphthenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.032	7.13 ug/ml	1262620	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthenone	168	C12H8O	1000128-38-5	96
2	Dibenzofuran	168	C12H8O	000132-64-9	58
3	Dibenzofuran	168	C12H8O	000132-64-9	58
4	1H-Inden-1-one, 4,7-difluoro-2,3...	168	C9H6F2O	130408-16-1	50
5	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	49





Library Search Compound Report

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Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

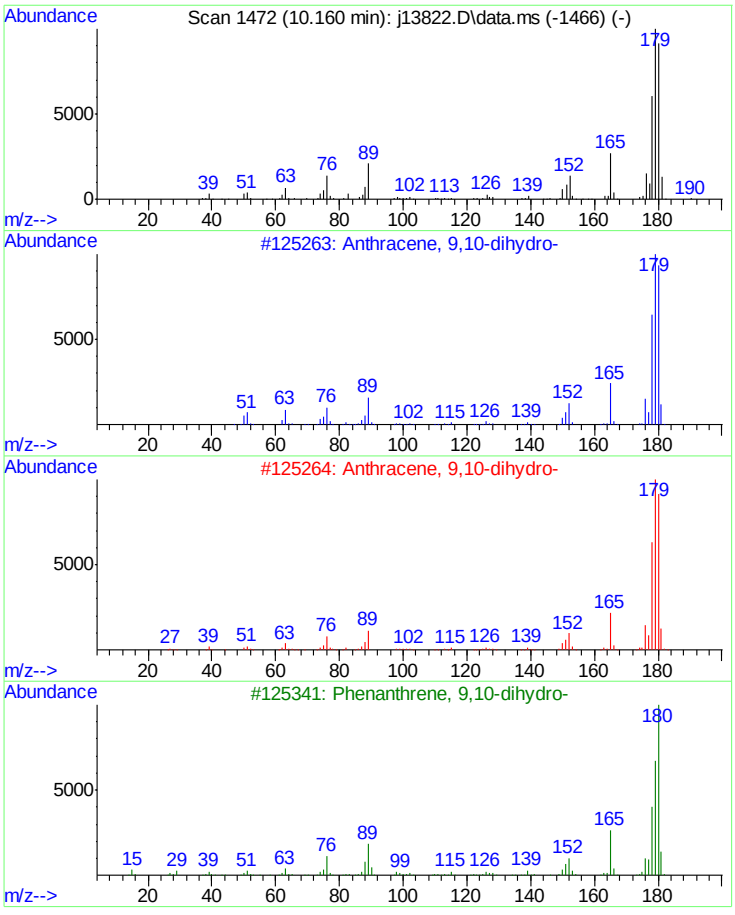
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

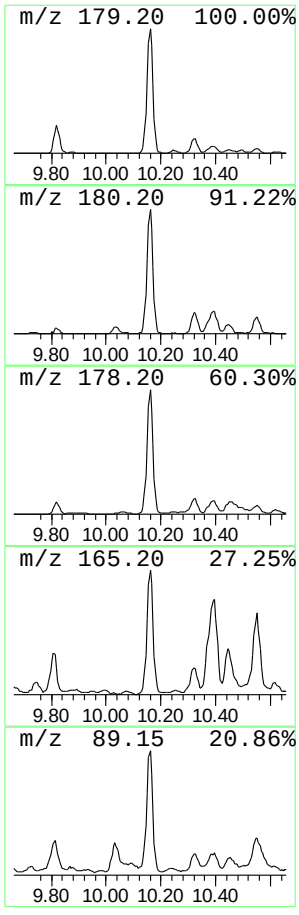
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Anthracene, 9,10-dihydro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.160	7.69 ug/ml	1362170	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	97
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	96
3	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	93
4	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	92
5	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

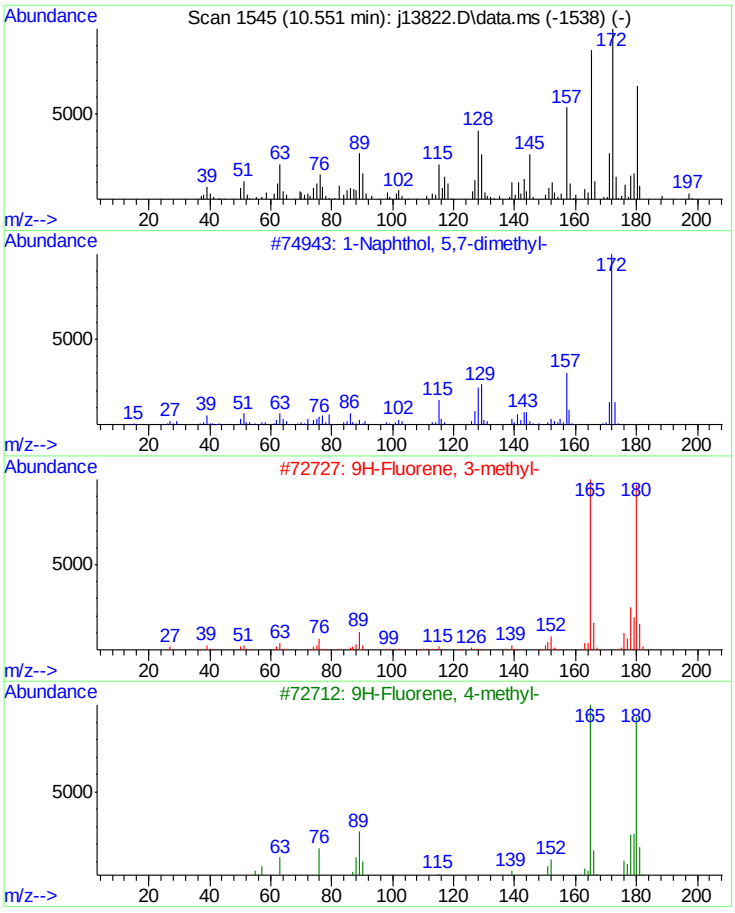
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

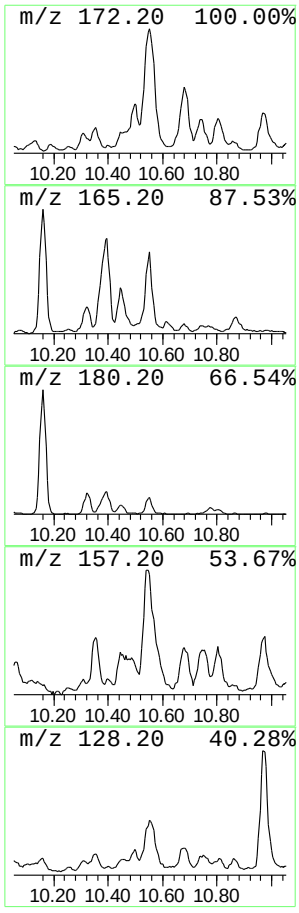
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 1-Naphthol, 5,7-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.551	4.20 ug/ml	743636	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthol, 5,7-dimethyl-	172	C12H12O	031706-76-0	38
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	38
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	38
4	5-Methyl-3-phenylcyclopent-2-en-...	172	C12H12O	1000216-05-7	35
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	35





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Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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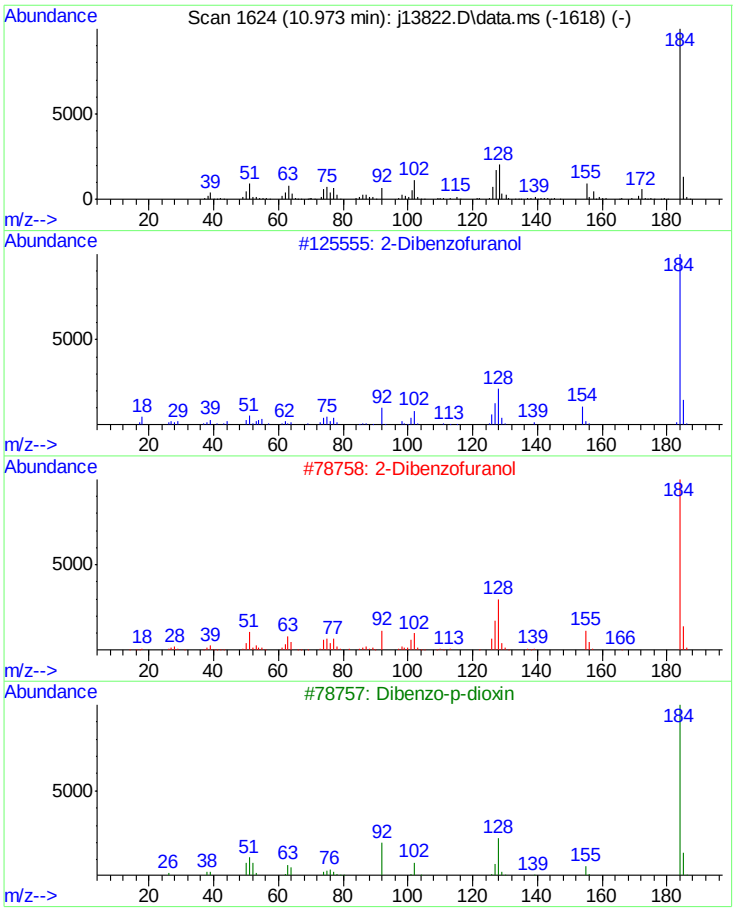
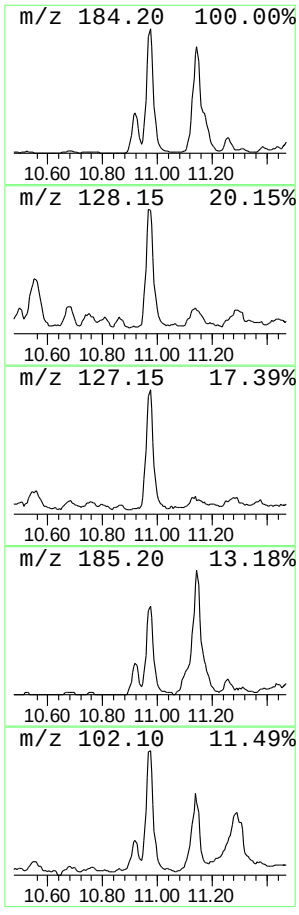
Peak Number 13 2-Dibenzofuranol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.973	6.42 ug/ml	1137640	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	94
2	2-Dibenzofuranol	184	C12H8O2	000086-77-1	93
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	80
4	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	64
5	1H-Benzimidazole, 2-(2-furanyl)-	184	C11H8N2O	003878-19-1	50





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ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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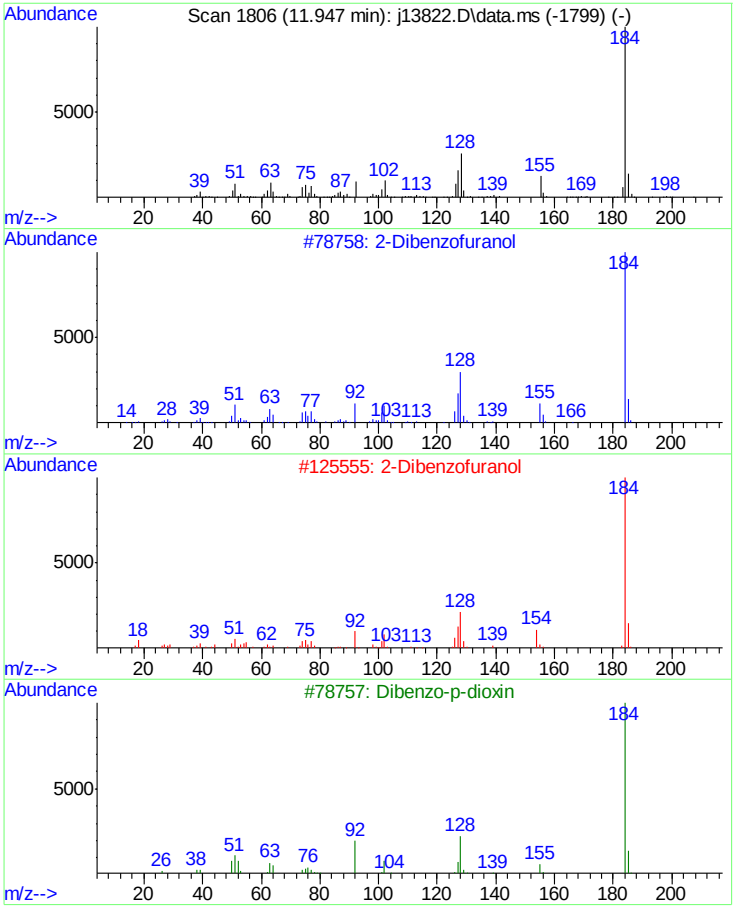
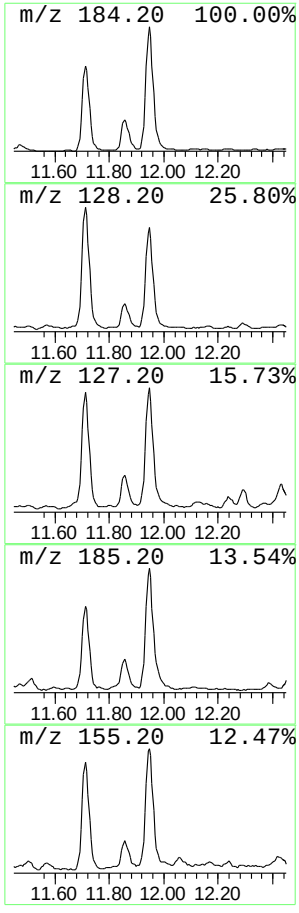
Peak Number 14 Dibenzofuranol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.947	11.59 ug/ml	2052850	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	94
2	2-Dibenzofuranol	184	C12H8O2	000086-77-1	90
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	87
4	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	64
5	2,5-Cyclohexadien-1-one, 4-(4-ox...	184	C12H8O2	000494-72-4	53





Library Search Compound Report

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Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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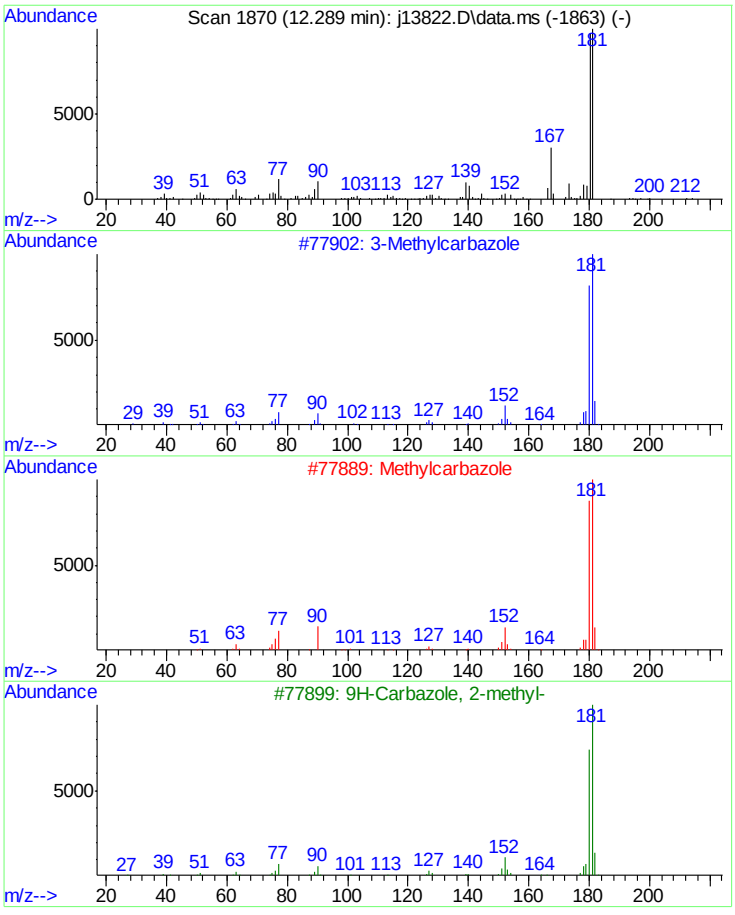
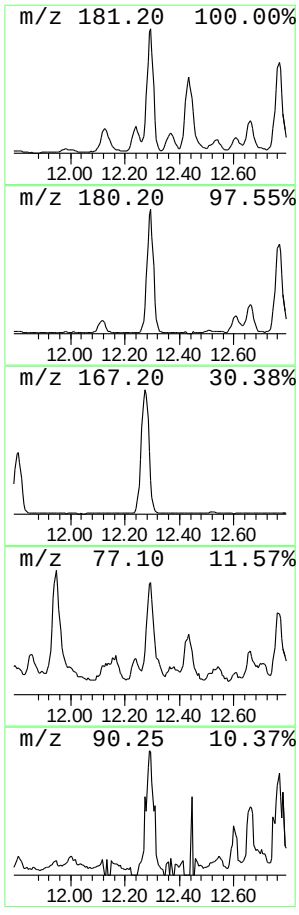
Peak Number 15 3-Methylcarbazole Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.289	11.83 ug/ml	2094780	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	72
2	Methylcarbazole	181	C13H11N	027323-29-1	68
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	64
4	4-(2-Phenylvinyl)pyridine, trahs	181	C13H11N	005097-93-8	59
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	59





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On    : 14 Oct 2009   6:07 pm
Operator  : sheilac
Sample    : t39646-6
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

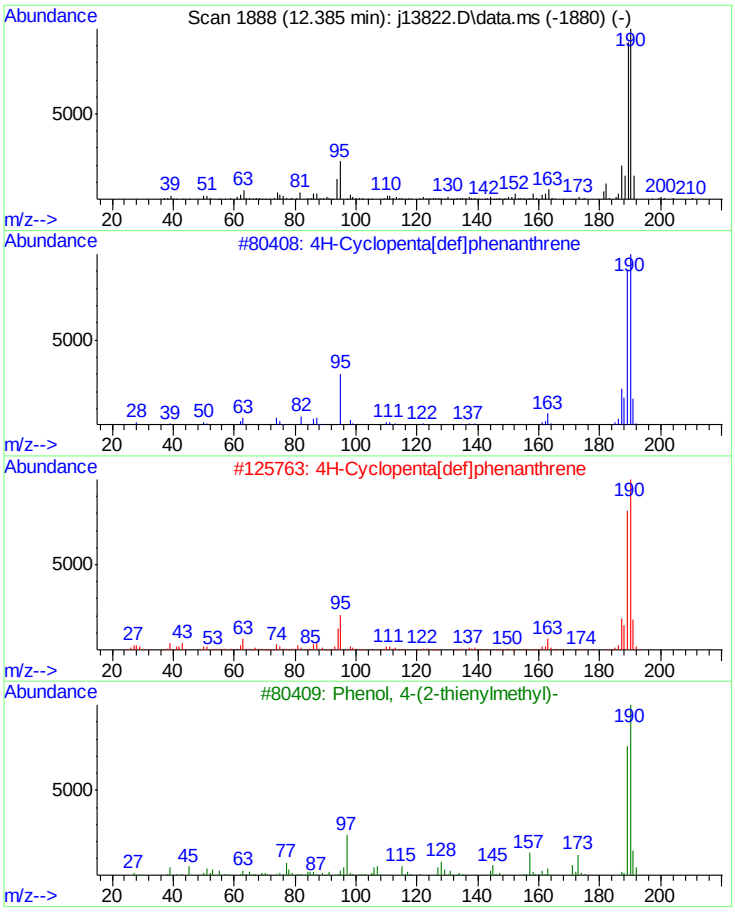
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

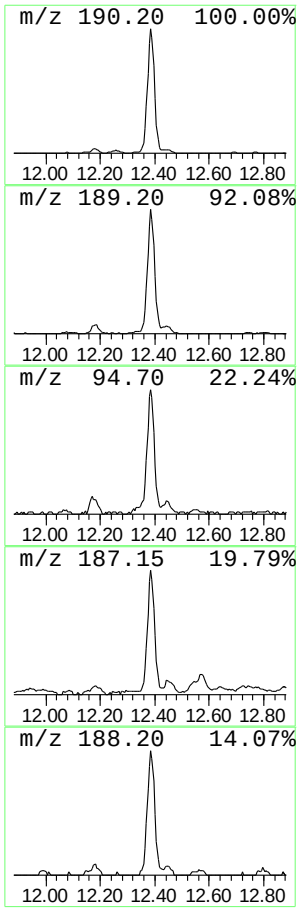
****

Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.385	6.57 ug/ml	1164270	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	96
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	53
4	4-Oxo-2-(4-fluorophenyl)-3,4-dih...	190	C10H7FN2O	076128-79-5	38
5	Pyrimidine, 6-oxo-4-(3-fluorophe...	190	C10H7FN2O	085979-55-1	36





8.1.18 8

ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

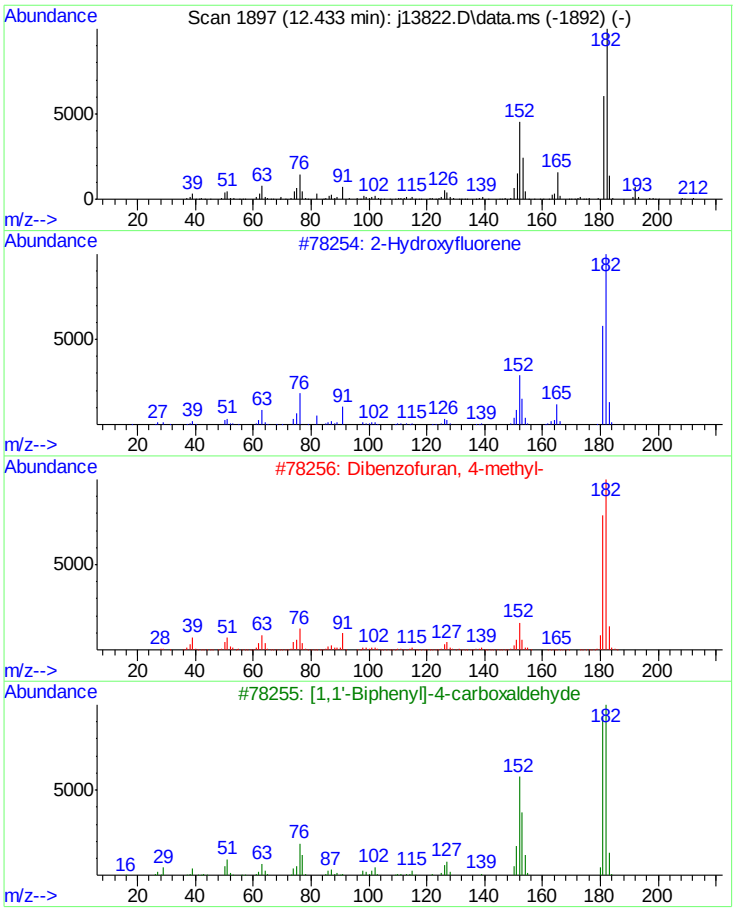
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

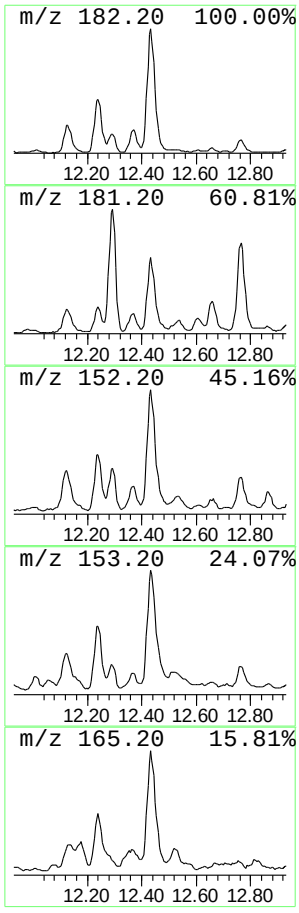
****

Peak Number 17 2-Hydroxyfluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.433	9.88 ug/ml	1750360	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hydroxyfluorene	182	C13H10O	002443-58-5	81
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	70
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	53
4	4,6-Dimethoxysalicylaldehyde	182	C9H10O4	000708-76-9	50
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

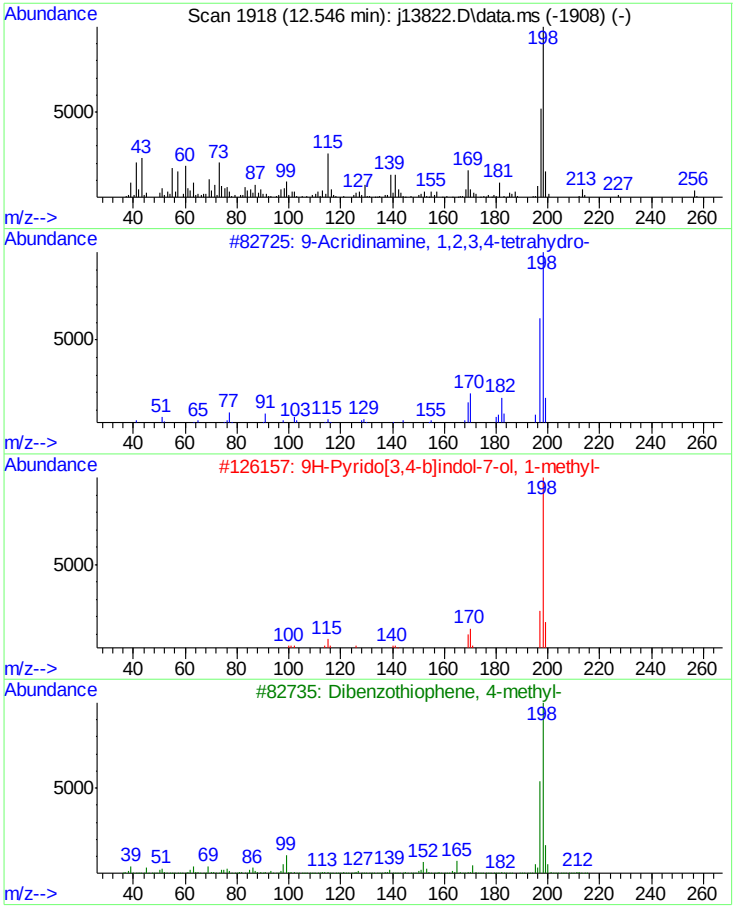
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

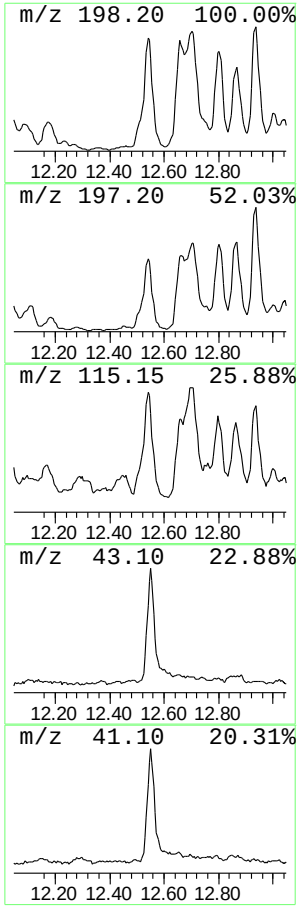
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 9-Acridinamine, 1,2,3,4-tet... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.546	6.70 ug/ml	1187300	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64
2	9H-Pyrido[3,4-b]indol-7-ol, 1-me...	198	C12H10N2O	000487-03-6	53
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	52
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	52
5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	50





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On    : 14 Oct 2009   6:07 pm
Operator  : sheilac
Sample    : t39646-6
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

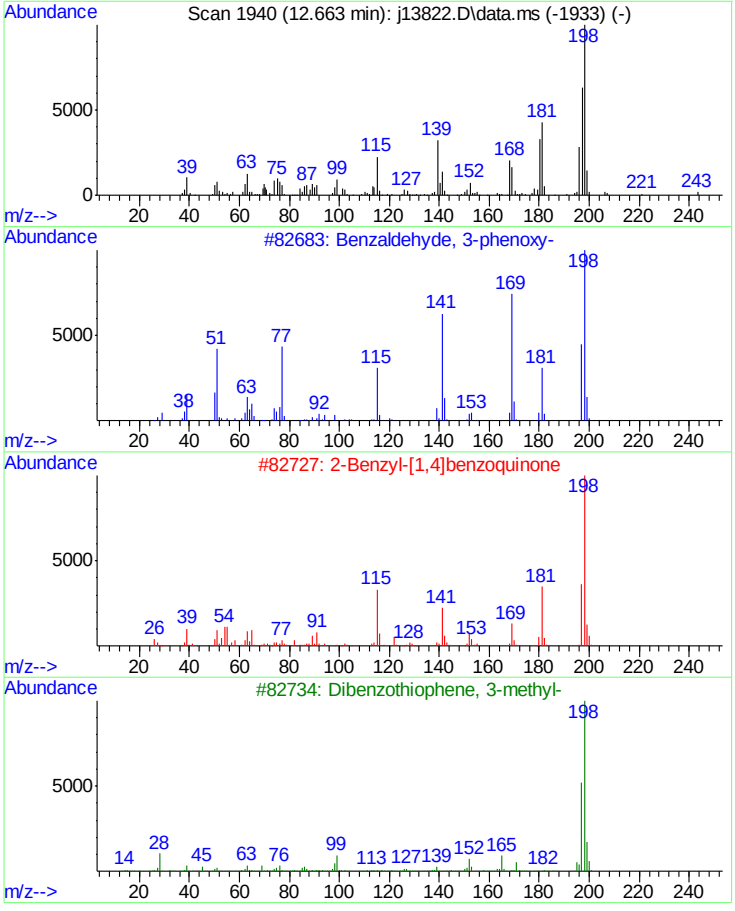
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

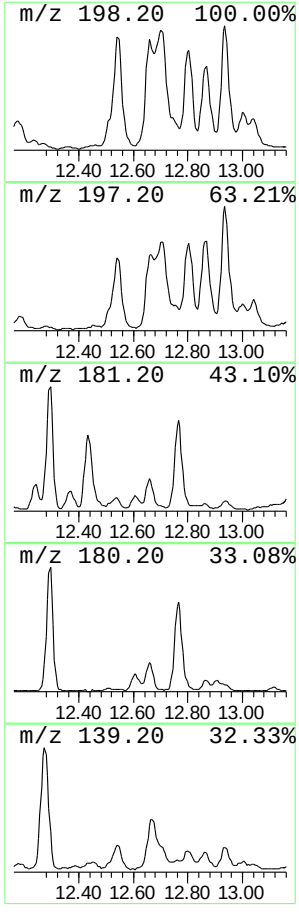
****

Peak Number 19 Benzaldehyde, 3-phenoxy- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.663	5.71 ug/ml	1012100	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3-phenoxy-	198	C13H10O2	039515-51-0	52
2	2-Benzyl-[1,4]benzoquinone	198	C13H10O2	1000192-41-4	49
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	43
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	38
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	38





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

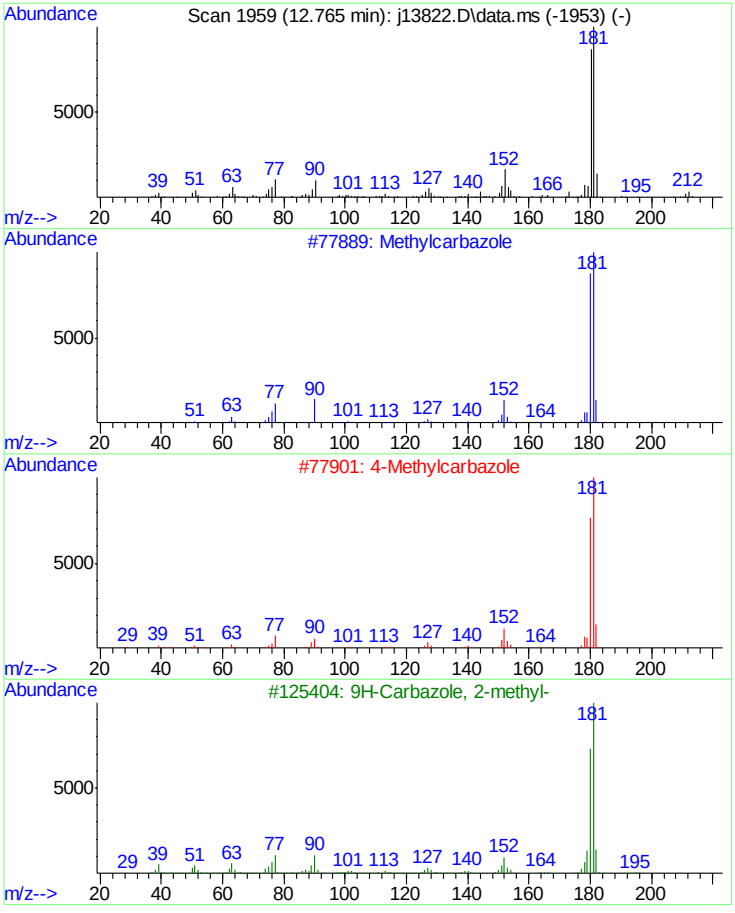
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

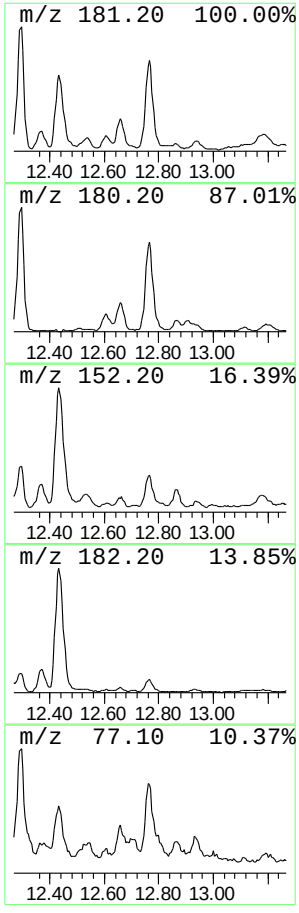
****

Peak Number 20 Methylcarbazole Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.765	4.28 ug/ml	758250	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylcarbazole	181	C13H11N	027323-29-1	97
2	4-Methylcarbazole	181	C13H11N	003770-48-7	96
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	94
4	1-Methylcarbazole	181	C13H11N	006510-65-2	94
5	3-Methylcarbazole	181	C13H11N	004630-20-0	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

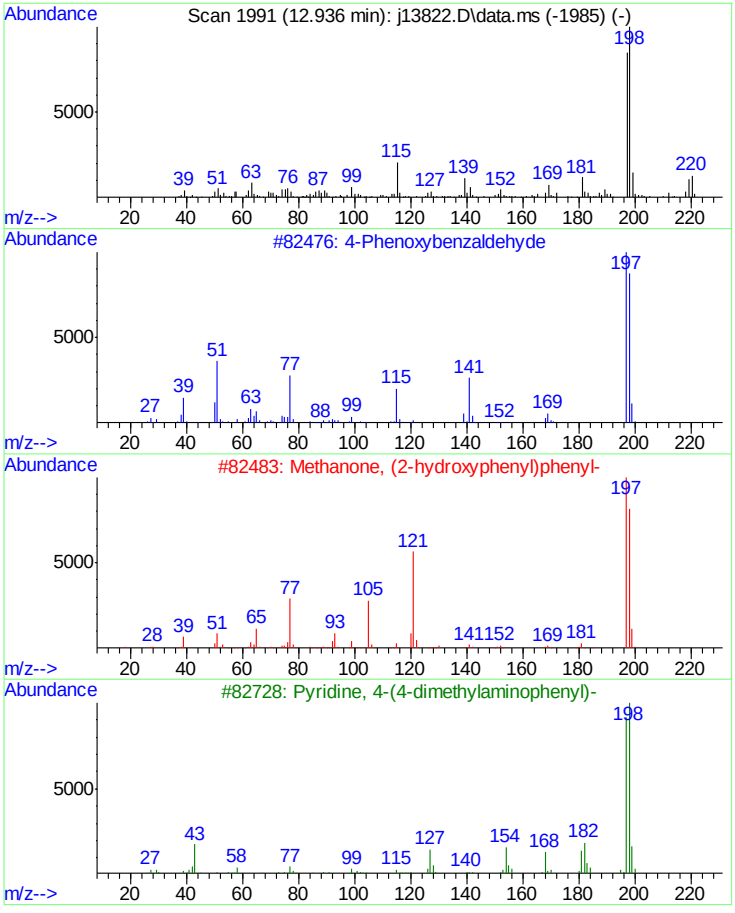
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

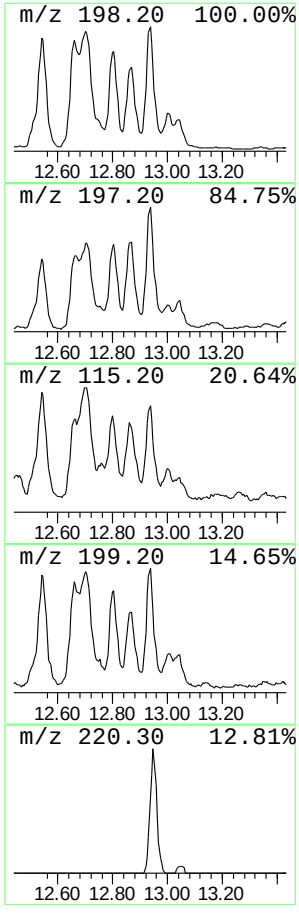
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 4-Phenoxybenzaldehyde Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.936	4.23 ug/ml	748605	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Phenoxybenzaldehyde	198	C13H10O2	000067-36-7	74
2	Methanone, (2-hydroxyphenyl)phenyl-	198	C13H10O2	000117-99-7	53
3	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	45
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	43
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	43





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On    : 14 Oct 2009   6:07 pm
Operator  : sheilac
Sample    : t39646-6
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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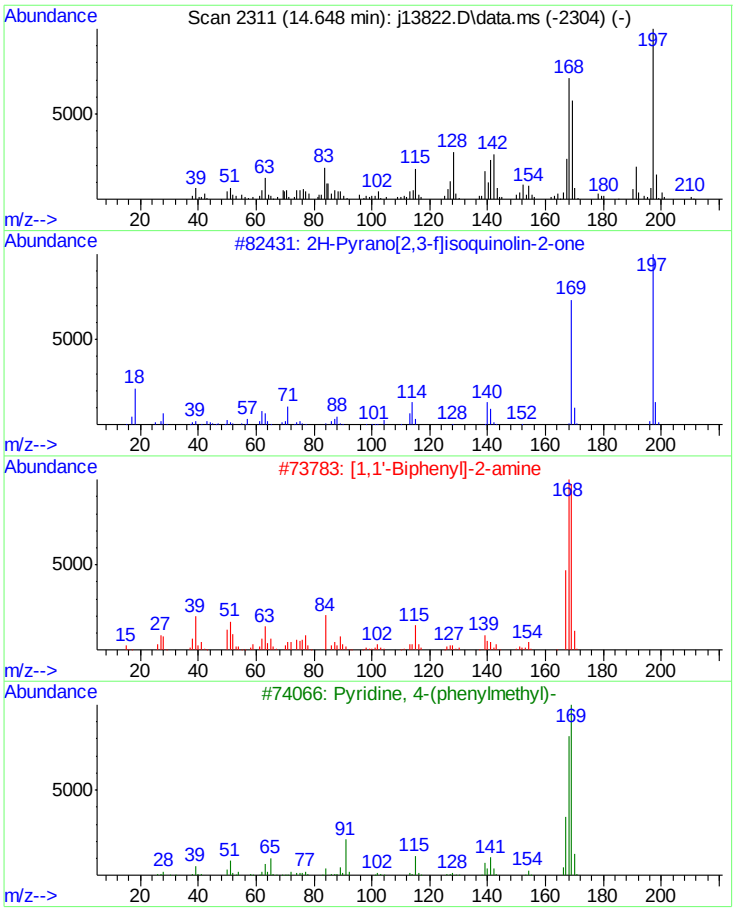
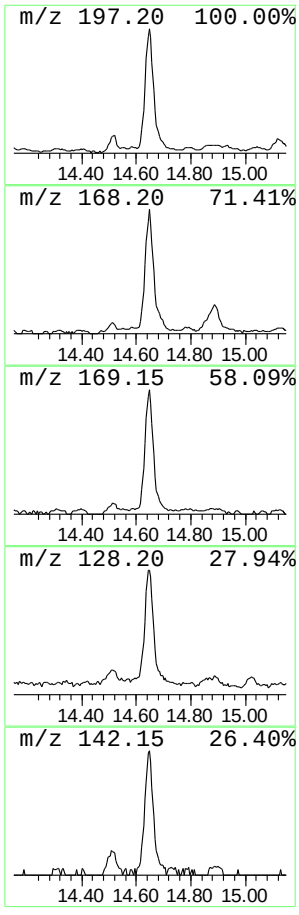
Peak Number 22 2H-Pyrano[2,3-f]isoquinolin... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.648	10.52 ug/ml	1043270	Chrysene-d12	16.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Pyrano[2,3-f]isoquinolin-2-one	197	C12H7NO2	054852-71-0	45
2	[1,1'-Biphenyl]-2-amine	169	C12H11N	000090-41-5	43
3	Pyridine, 4-(phenylmethyl)-	169	C12H11N	002116-65-6	30
4	1H-Benz[de]isoquinoline-1,3(2H)-...	197	C12H7NO2	000081-83-4	22
5	[1,1'-Biphenyl]-3-amine	169	C12H11N	002243-47-2	18





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

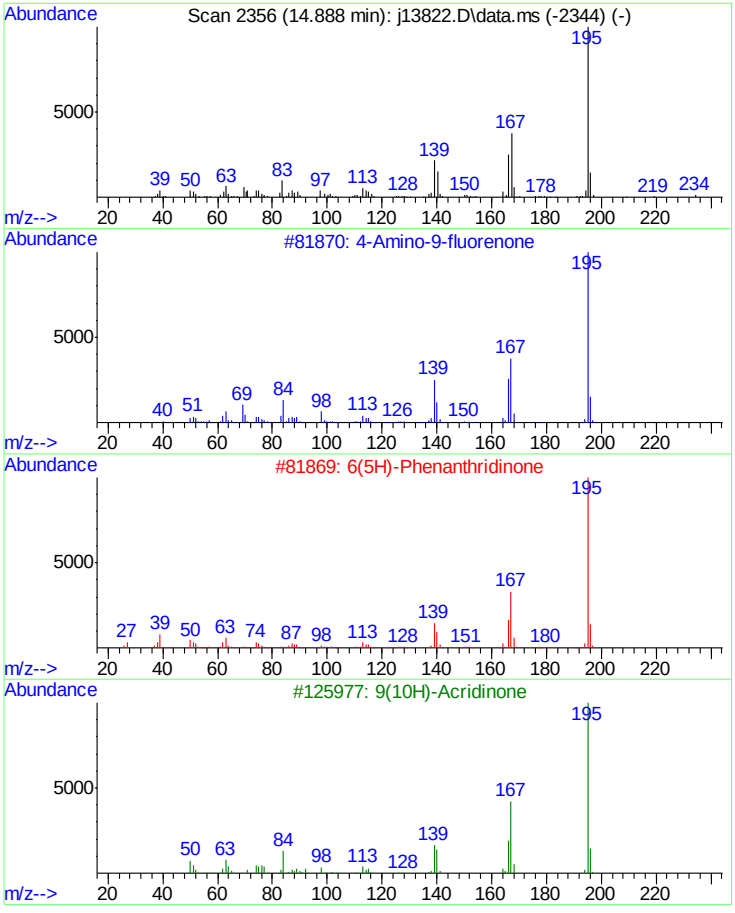
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

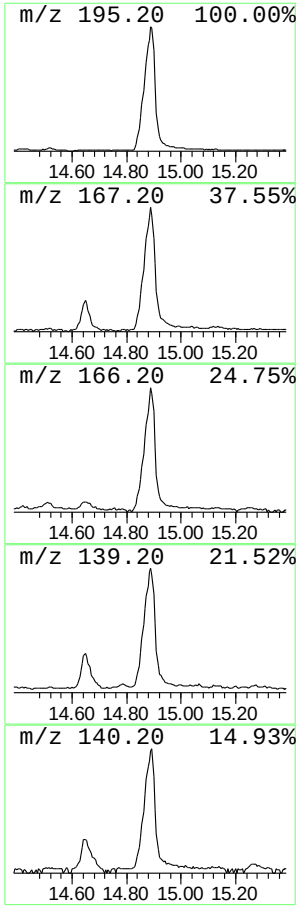
****

Peak Number 23 4-Amino-9-fluorenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.888	10.71 ug/ml	1061720	Chrysene-d12	16.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	97
2	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	95
3	9(10H)-Acridinone	195	C13H9NO	000578-95-0	94
4	8-Methyl-4-azafluorenone	195	C13H9NO	1000216-52-6	90
5	9(10H)-Acridinone	195	C13H9NO	000578-95-0	90





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13822.D
Acq On : 14 Oct 2009 6:07 pm
Operator : sheilac
Sample : t39646-6
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Benzo[b]thiophene	5.983	7.8	ug/ml	943292	2	5.908	4862240	40.0
Benzo[b]thiophe...	6.453	16.4	ug/ml	1994760	2	5.908	4862240	40.0
Benzoic acid, 2...	7.101	4.2	ug/ml	513210	2	5.908	4862240	40.0
1-Isopropenylna...	8.641	8.9	ug/ml	1229830	3	8.368	5498000	40.0
Benzene, (3-chl...	8.967	6.6	ug/ml	901718	3	8.368	5498000	40.0
1-Isopropenylna...	9.443	6.6	ug/ml	907534	3	8.368	5498000	40.0
9H-Fluorene, 9-...	9.497	6.7	ug/ml	920379	3	8.368	5498000	40.0
1,1'-Biphenyl, ...	9.577	5.4	ug/ml	745603	3	8.368	5498000	40.0
Dibenzofuran, 4...	9.647	5.9	ug/ml	814024	3	8.368	5498000	40.0
Acenaphthenone	10.032	7.1	ug/ml	1262620	4	11.144	7085680	40.0
Anthracene, 9,1...	10.160	7.7	ug/ml	1362170	4	11.144	7085680	40.0
1-Naphthol, 5,7...	10.551	4.2	ug/ml	743636	4	11.144	7085680	40.0
2-Dibenzofuranol	10.973	6.4	ug/ml	1137640	4	11.144	7085680	40.0
Dibenzofuranol	11.947	11.6	ug/ml	2052850	4	11.144	7085680	40.0
3-Methylcarbazole	12.289	11.8	ug/ml	2094780	4	11.144	7085680	40.0
4H-Cyclopenta[d...	12.385	6.6	ug/ml	1164270	4	11.144	7085680	40.0
2-Hydroxyfluorene	12.433	9.9	ug/ml	1750360	4	11.144	7085680	40.0
9-Acridinamine,...	12.546	6.7	ug/ml	1187300	4	11.144	7085680	40.0
Benzaldehyde, 3...	12.663	5.7	ug/ml	1012100	4	11.144	7085680	40.0
Methylcarbazole	12.765	4.3	ug/ml	758250	4	11.144	7085680	40.0
4-Phenoxybenzal...	12.936	4.2	ug/ml	748605	4	11.144	7085680	40.0
2H-Pyrano[2,3-f...	14.648	10.5	ug/ml	1043270	5	16.664	3965600	40.0
4-Amino-9-fluor...	14.888	10.7	ug/ml	1061720	5	16.664	3965600	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13850.D
Acq On : 15 Oct 2009 5:18 pm
Operator : sheilac
Sample : t39646-6,5x
Misc : op13250,Ej635,1000,,,1,5,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 15 18:23:36 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

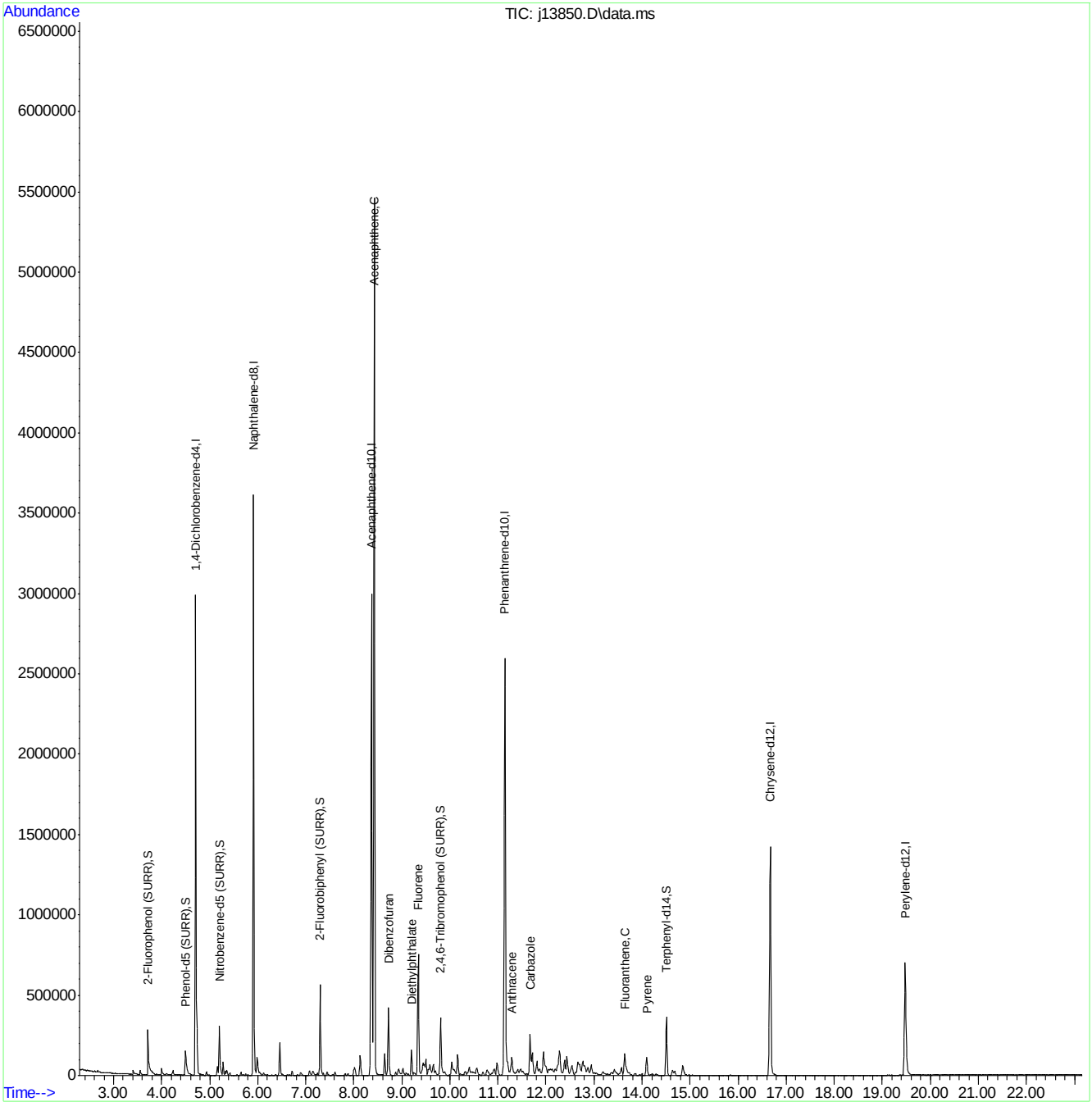
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	518277	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1825600	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.368	164	1033614	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1509414	40.00	ug/ml	-0.06
71) Chrysene-d12	16.669	240	1053457	40.00	ug/ml	-0.06
80) Perylene-d12	19.477	264	592544	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	128756	7.92	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery	=	7.92%#	
5) Phenol-d5 (SURR)	4.496	99	97621	4.80	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	4.80%#	
21) Nitrobenzene-d5 (SURR)	5.202	82	120783	6.31	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery	=	12.62%#	
40) 2-Fluorobiphenyl (SURR)	7.299	172	222712	5.53	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery	=	11.06%#	
62) 2,4,6-Tribromophenol (...	9.807	330	54371	10.71	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	10.71%#	
74) Terphenyl-d14	14.509	244	189339	7.53	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	15.06%	
Target Compounds						Qvalue
47) Acenaphthene	8.427	154	1836472	63.86	ug/ml	100
50) Dibenzofuran	8.721	168	256467	6.24	ug/ml	98
53) Diethylphthalate	9.203	149	83434	2.32	ug/ml#	59
54) Fluorene	9.342	166	339022	9.47	ug/ml	98
67) Anthracene	11.289	178	62652	1.45	ug/ml#	61
68) Carbazole	11.668	167	167628	4.81	ug/ml	98
70) Fluoranthene	13.637	202	97958	2.40	ug/ml#	63
73) Pyrene	14.097	202	83290	2.24	ug/ml#	74

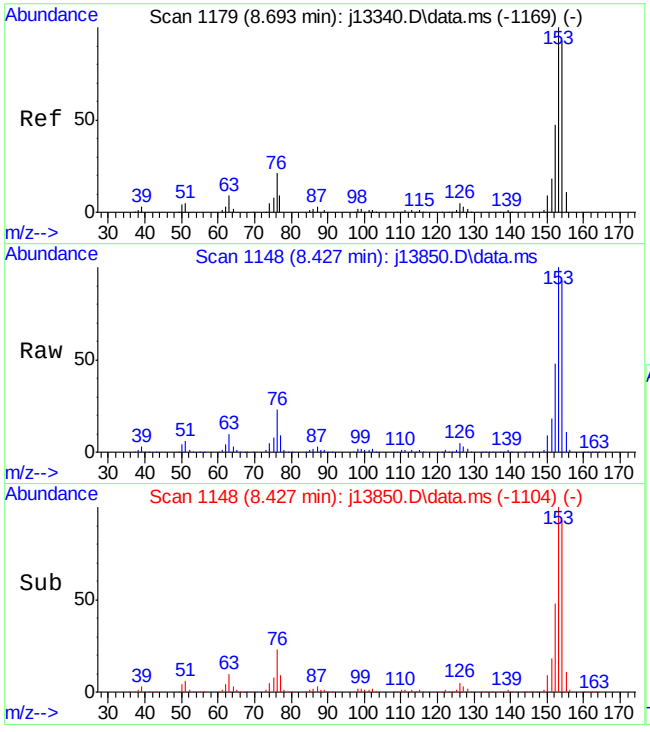
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13850.D
Acq On : 15 Oct 2009 5:18 pm
Operator : sheilac
Sample : t39646-6,5x
Misc : op13250,Ej635,1000,,,1,5,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 15 18:23:36 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

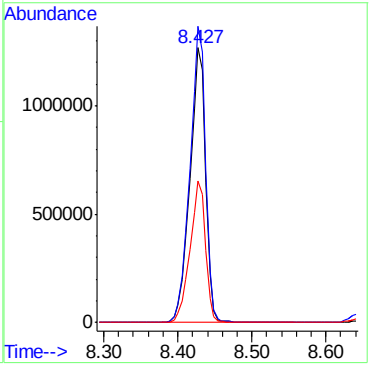


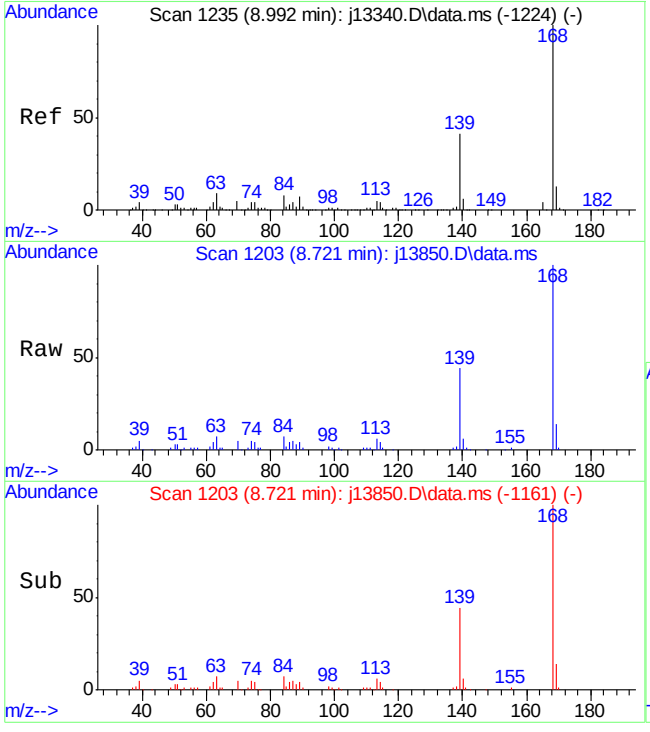


#47
Acenaphthene
Concen: 63.86 ug/ml
RT: 8.427 min Scan# 1148
Delta R.T. -0.266 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:154 Resp: 1836472

Ion	Ratio	Lower	Upper
154	100		
153	107.7	87.9	127.9
152	51.4	31.3	71.3

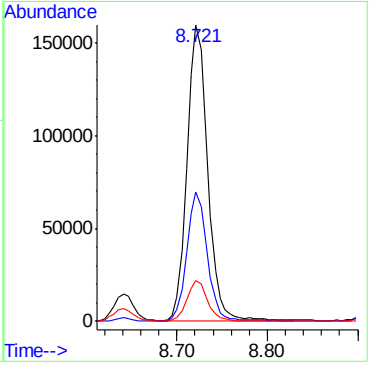


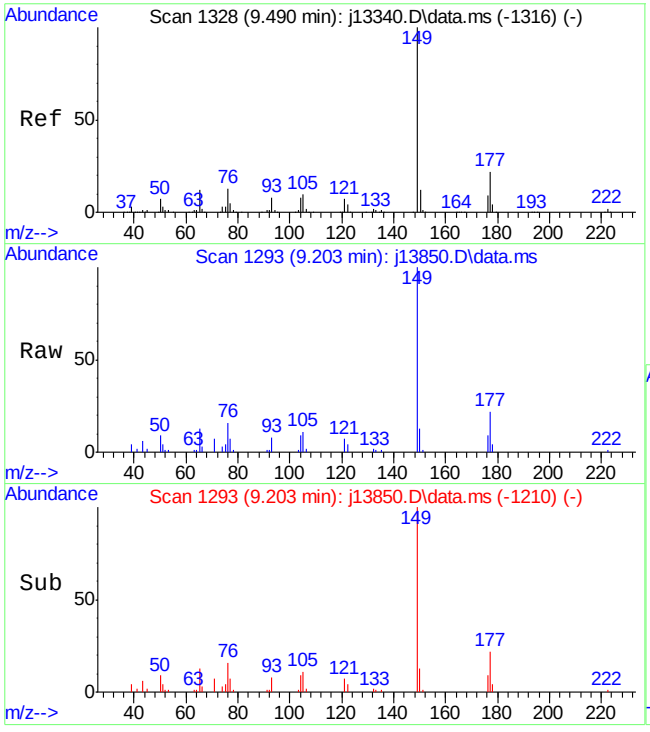


#50
Dibenzofuran
Concen: 6.24 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:168 Resp: 256467

Ion	Ratio	Lower	Upper
168	100		
139	43.0	21.2	61.2
169	13.3	0.0	33.2

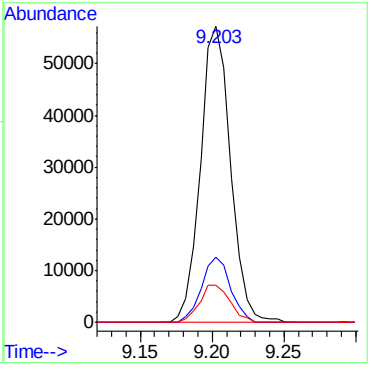


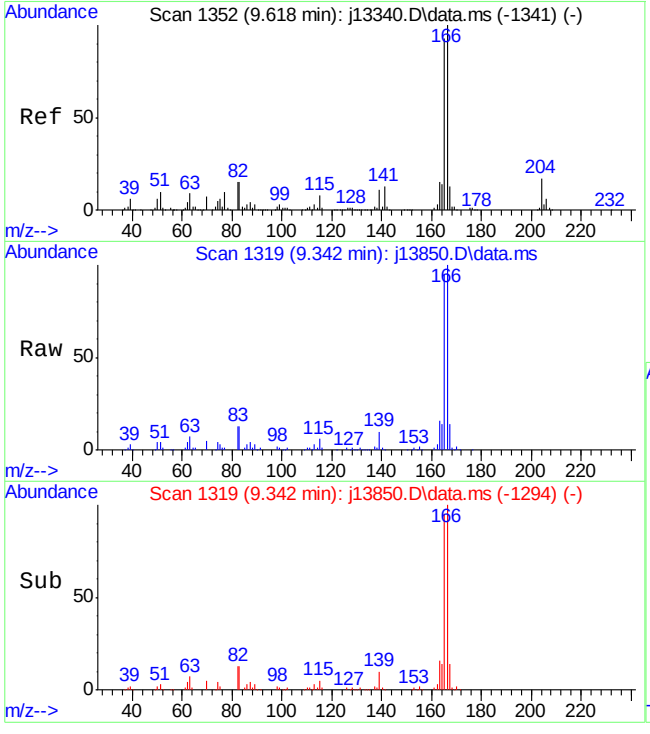


#53
Diethylphthalate
Concen: 2.32 ug/ml
RT: 9.203 min Scan# 1293
Delta R.T. -0.053 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:149 Resp: 83434

Ion	Ratio	Lower	Upper
149	100		
177	0.0	2.2	42.2#
150	0.0	0.0	32.2

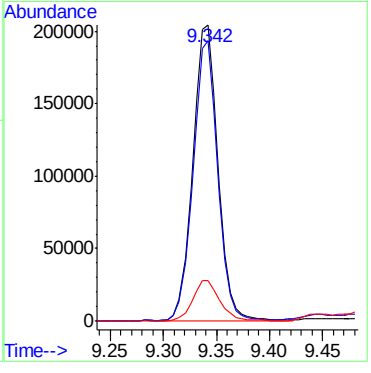


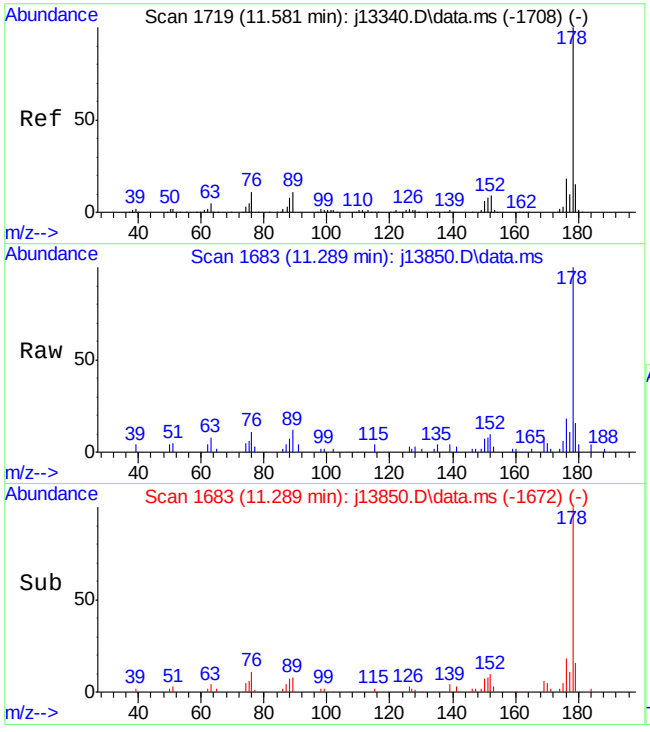


#54
Fluorene
Concen: 9.47 ug/ml
RT: 9.342 min Scan# 1319
Delta R.T. -0.064 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:166 Resp: 339022

Ion	Ratio	Lower	Upper
166	100		
165	92.6	73.8	113.8
167	14.8	0.0	33.3

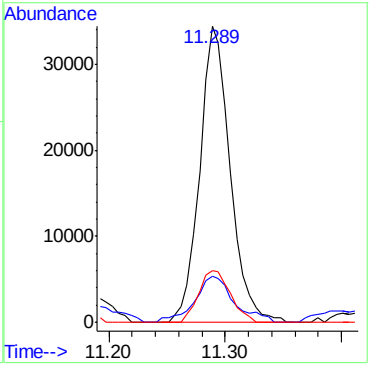


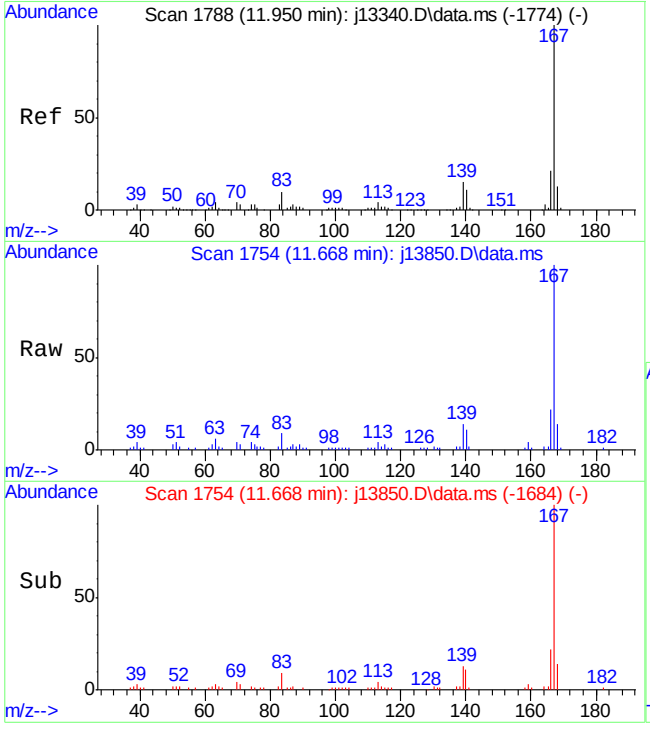


#67
Anthracene
Concen: 1.45 ug/ml
RT: 11.289 min Scan# 1683
Delta R.T. -0.140 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:178 Resp: 62652

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	35.1
176	0.0	0.0	38.3

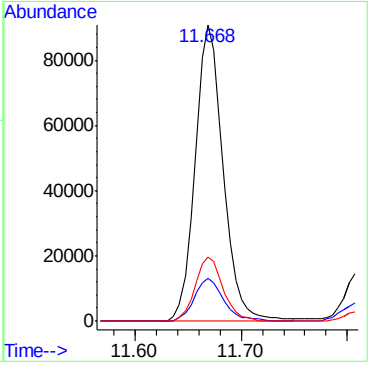


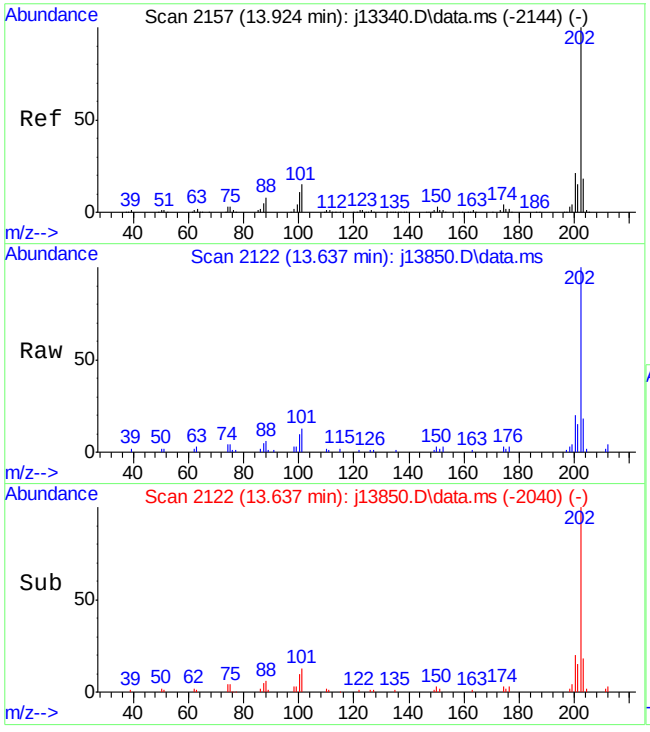


#68
Carbazole
Concen: 4.81 ug/ml
RT: 11.668 min Scan# 1754
Delta R.T. -0.125 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:167 Resp: 167628

Ion	Ratio	Lower	Upper
167	100		
139	15.1	0.0	34.1
166	21.4	0.9	40.9

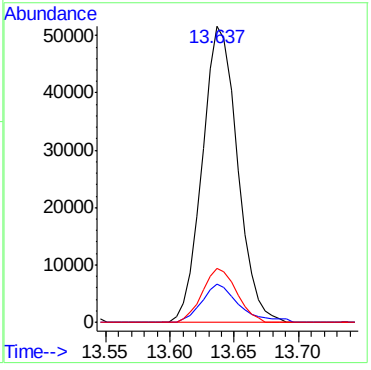


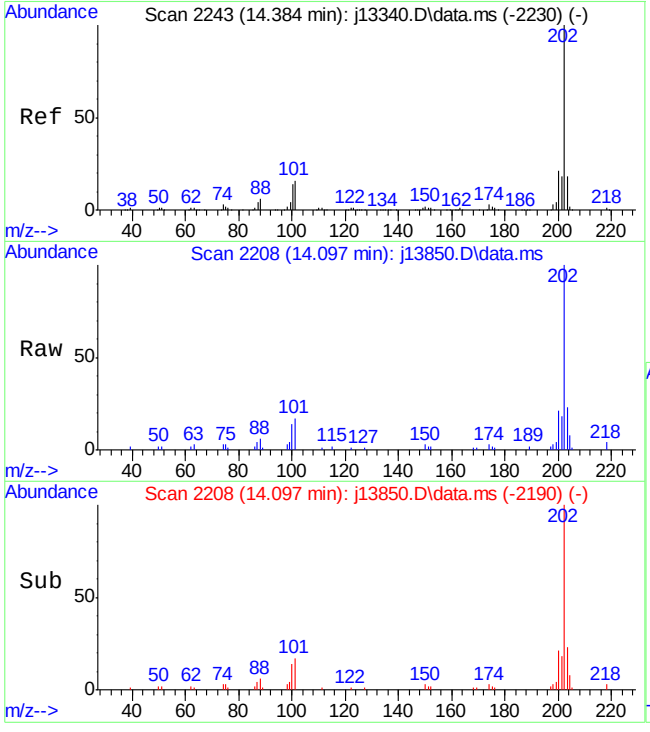


#70
Fluoranthene
Concen: 2.40 ug/ml
RT: 13.637 min Scan# 2122
Delta R.T. -0.064 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:202 Resp: 97958

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	33.9
203	0.0	0.0	37.3

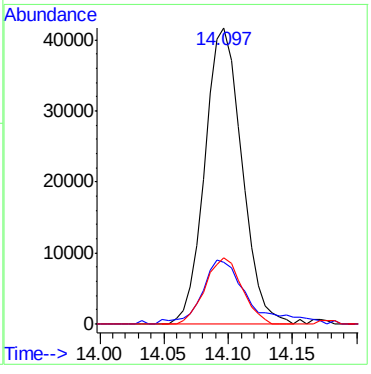




#73
Pyrene
Concen: 2.24 ug/ml
RT: 14.097 min Scan# 2208
Delta R.T. -0.104 min
Lab File: j13850.D
Acq: 15 Oct 2009 5:18 pm

Tgt Ion:202 Resp: 83290

Ion	Ratio	Lower	Upper
202	100		
200	26.7	0.5	40.5
203	0.0	0.0	37.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 12:21:24 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

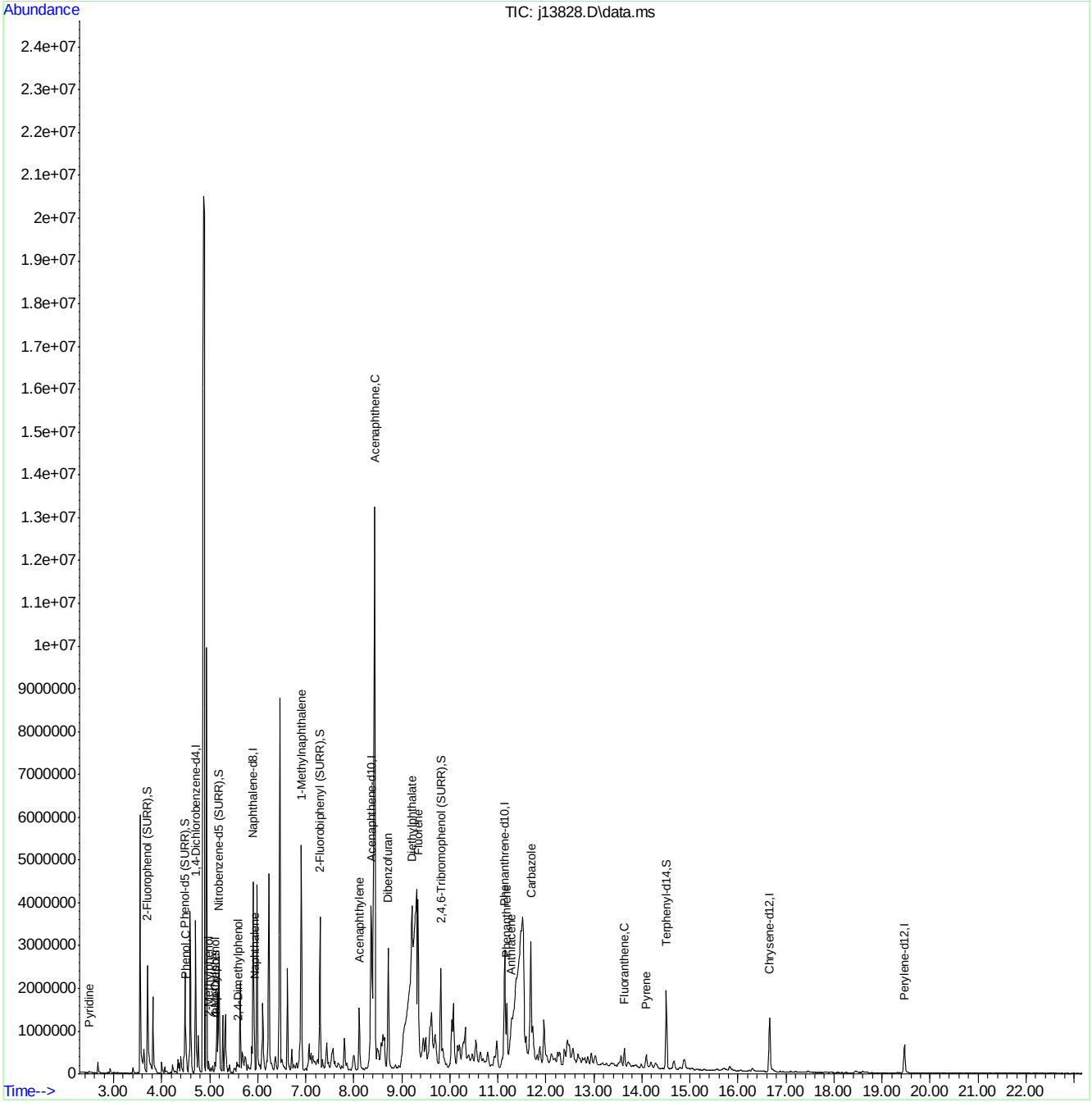
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	590748	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	2139082	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1158995	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1462171	40.00	ug/ml	-0.06
71) Chrysene-d12	16.659	240	850658	40.00	ug/ml	-0.07
80) Perylene-d12	19.467	264	514574	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.704	112	920753	49.67	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 49.67%			
5) Phenol-d5 (SURR)	4.485	99	862791	37.24	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 37.24%			
21) Nitrobenzene-d5 (SURR)	5.196	82	741513	33.06	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 66.12%			
40) 2-Fluorobiphenyl (SURR)	7.298	172	1346710	29.83	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 59.66%			
62) 2,4,6-Tribromophenol (...	9.812	330	347147	70.56	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 70.56%			
74) Terphenyl-d14	14.508	244	860783	42.38	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 84.76%			
Target Compounds						Qvalue
3) Pyridine	2.485	79	19183	1.09	ug/ml	100
6) Phenol	4.496	94	141379	5.64	ug/ml#	70
14) 2-Methylphenol	4.977	108	36971	2.10	ug/ml	91
16) 4-Methylphenol	5.116	108	69845	3.76	ug/ml#	67
17) m+p-Cresols	5.116	108	69845	3.76	ug/ml#	67
25) 2,4-Dimethylphenol	5.603	122	49839	2.98	ug/ml	88
30) Naphthalene	5.929	128	483707	8.30	ug/ml	99
35) 1-Methylnaphthalene	6.908	142	1744359	46.79	ug/ml	98
44) Acenaphthylene	8.117	152	878065	16.00	ug/ml	99
47) Acenaphthene	8.438	154	5274542	163.56	ug/ml	100
50) Dibenzofuran	8.721	168	1511609	32.82	ug/ml	98
53) Diethylphthalate	9.213	149	596642	14.78	ug/ml	99
54) Fluorene	9.342	166	1441968	35.92	ug/ml	98
66) Phenanthrene	11.187	178	793379	18.21	ug/ml	98
67) Anthracene	11.283	178	206202	4.92	ug/ml	85
68) Carbazole	11.690	167	1858453	55.03	ug/ml	97
70) Fluoranthene	13.637	202	293023	7.42	ug/ml	97
73) Pyrene	14.091	202	223317	7.45	ug/ml	88

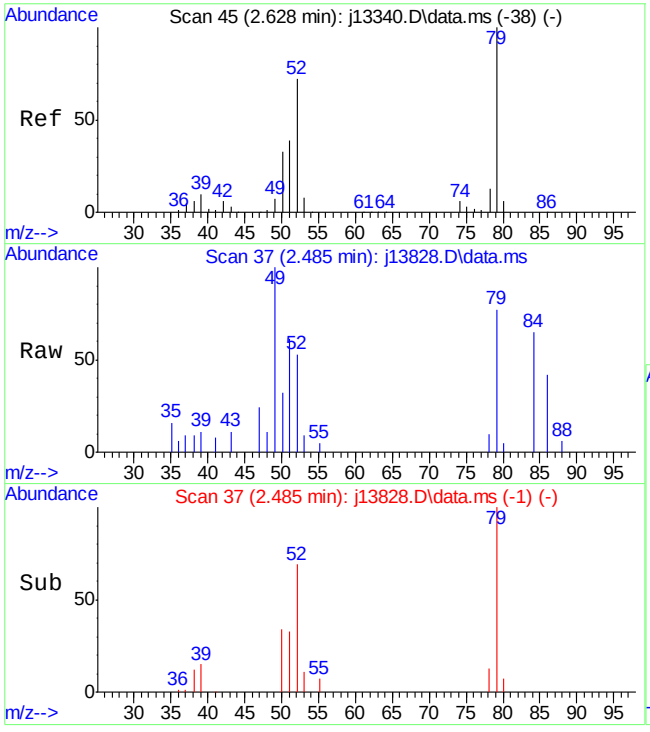
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 12:21:24 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

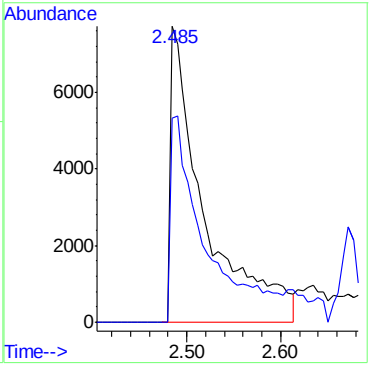


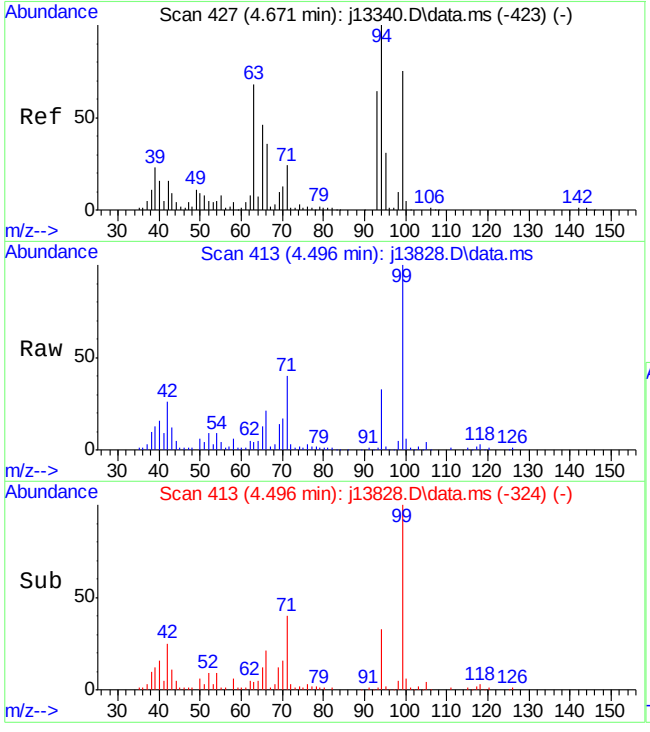


#3
Pyridine
Concen: 1.09 ug/ml
RT: 2.485 min Scan# 37
Delta R.T. 0.053 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion: 79 Resp: 19183

Ion	Ratio	Lower	Upper
79	100		
52	72.3	52.6	92.6

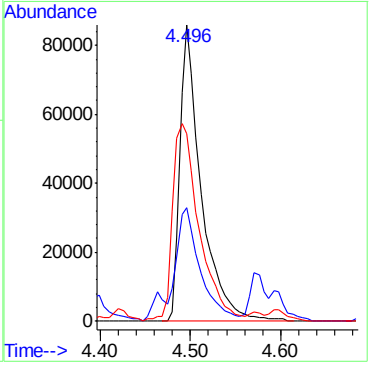


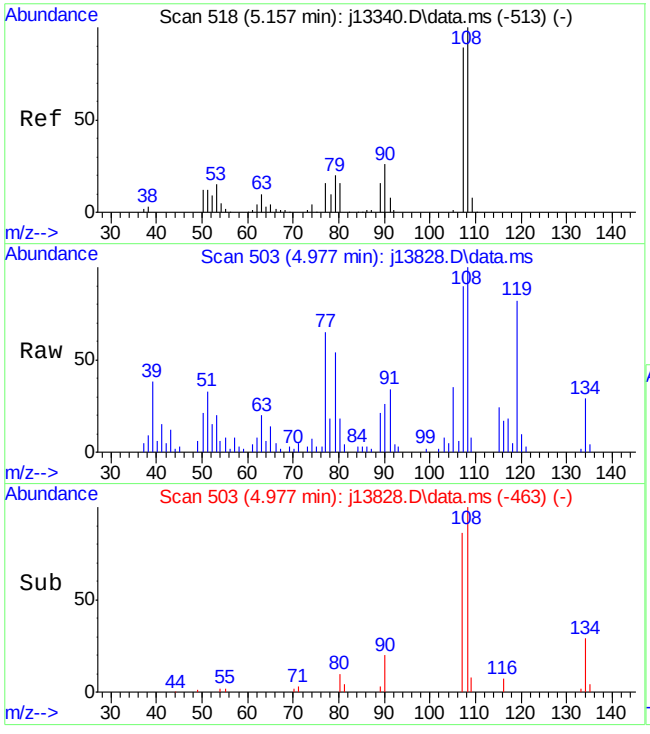


#6
Phenol
Concen: 5.64 ug/ml
RT: 4.496 min Scan# 413
Delta R.T. -0.023 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion: 94 Resp: 141379

Ion	Ratio	Lower	Upper
94	100		
65	37.6	35.3	75.3
66	83.2	37.4	77.4#

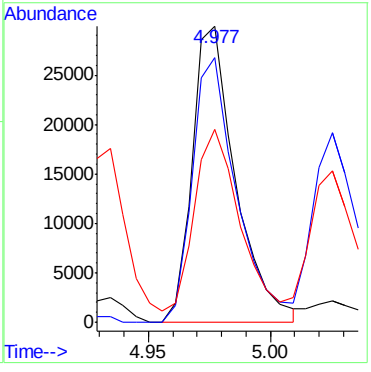


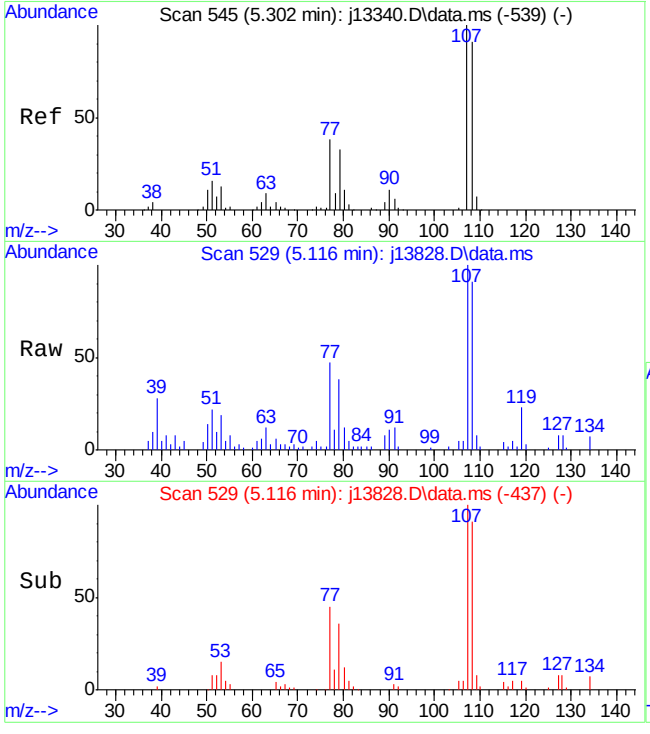


#14
2-Methylphenol
Concen: 2.10 ug/ml
RT: 4.977 min Scan# 503
Delta R.T. 0.016 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:108 Resp: 36971

Ion	Ratio	Lower	Upper
108	100		
107	91.9	68.3	108.3
77	62.4	30.8	70.8

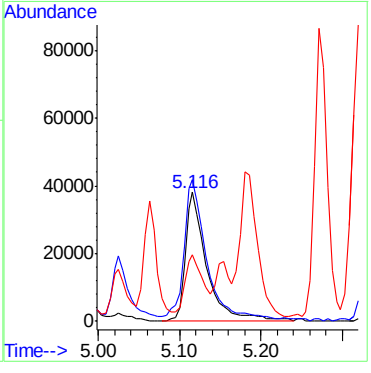


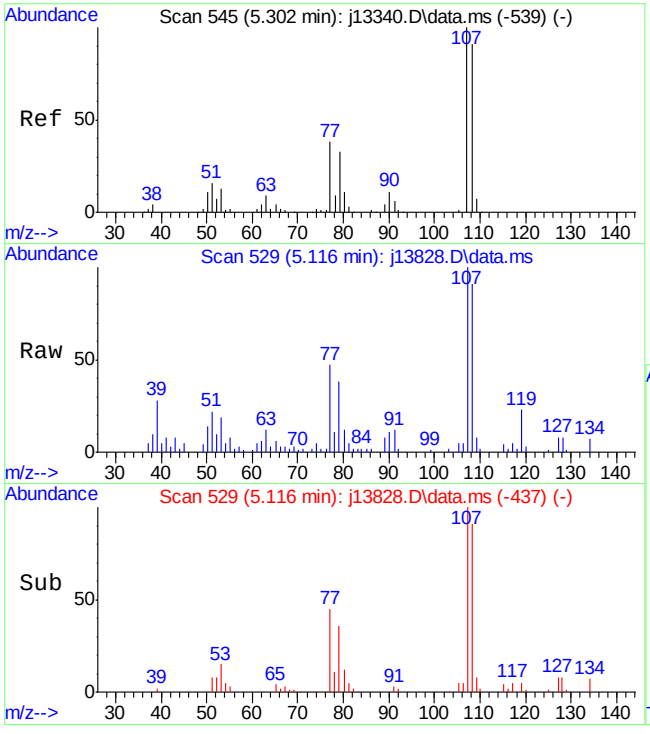


#16
4-Methylphenol
Concen: 3.76 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.005 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:108 Resp: 69845

Ion	Ratio	Lower	Upper
108	100		
107	113.2	139.5	179.5#
77	36.1	36.8	76.8#

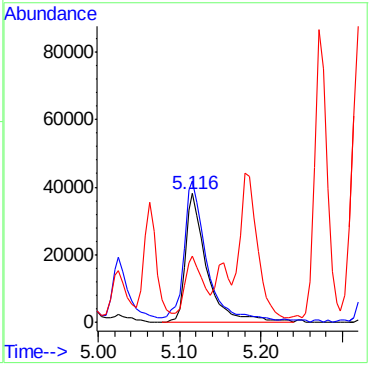


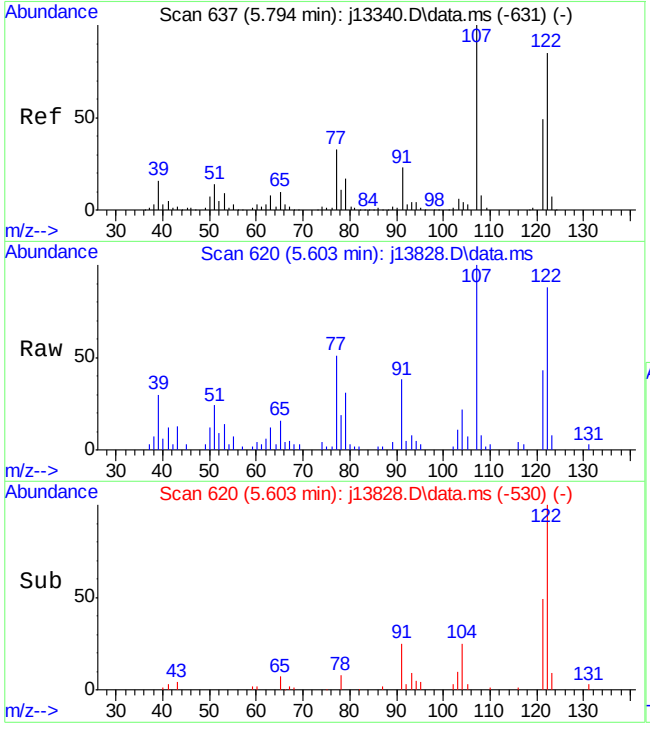


#17
m+p-Cresols
Concen: 3.76 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.005 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:108 Resp: 69845

Ion	Ratio	Lower	Upper
108	100		
107	113.2	139.5	179.5#
77	36.1	36.8	76.8#

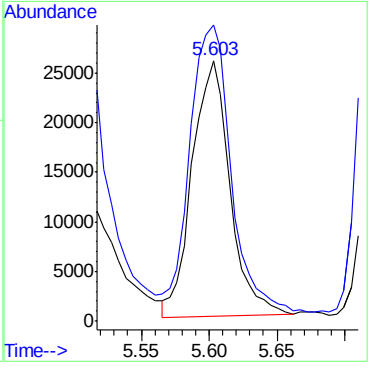


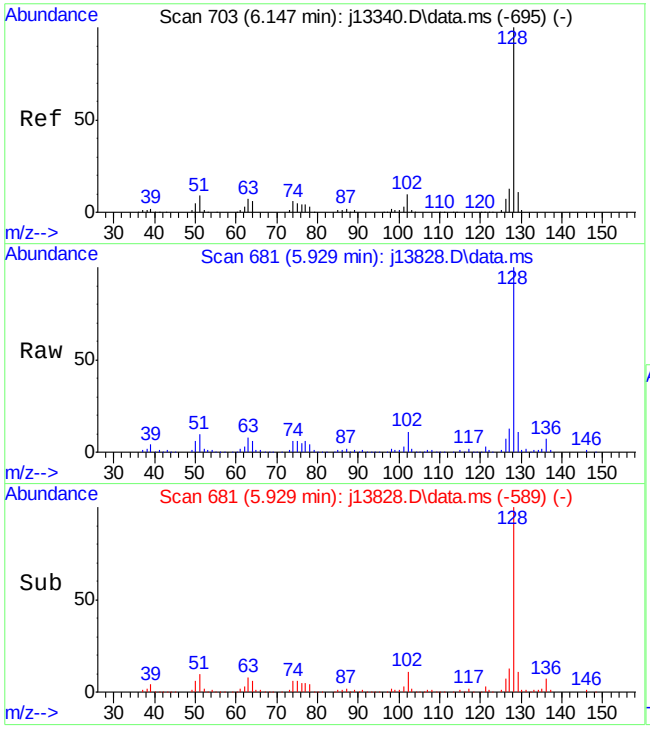


#25
2,4-Dimethylphenol
Concen: 2.98 ug/ml
RT: 5.603 min Scan# 620
Delta R.T. -0.016 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:122 Resp: 49839

Ion	Ratio	Lower	Upper
122	100		
107	129.9	96.3	136.3

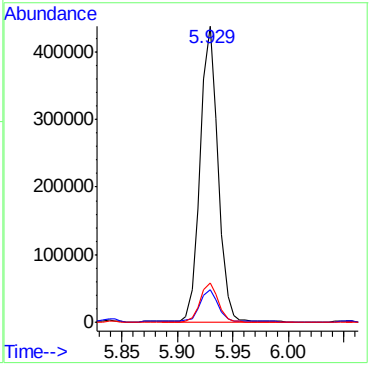


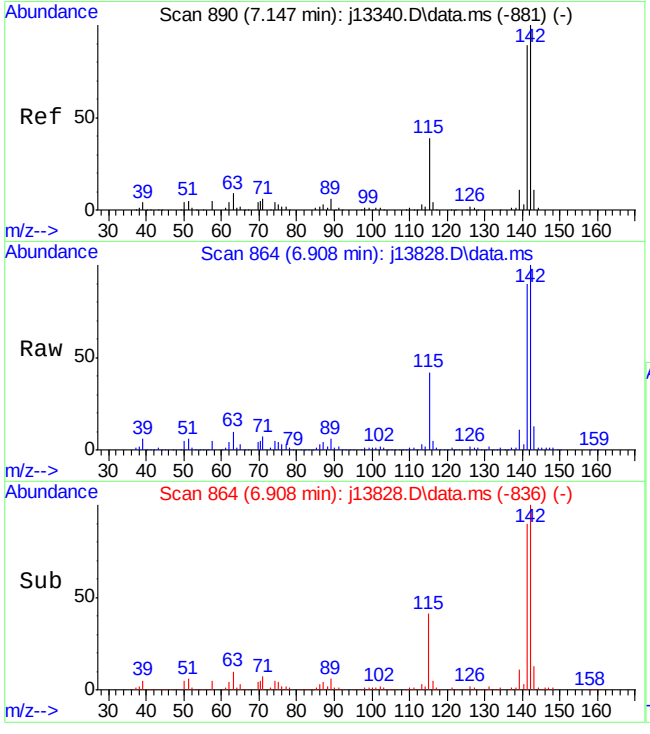


#30
Naphthalene
Concen: 8.30 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:128 Resp: 483707

Ion	Ratio	Lower	Upper
128	100		
129	10.6	0.0	31.2
127	13.9	0.0	33.8

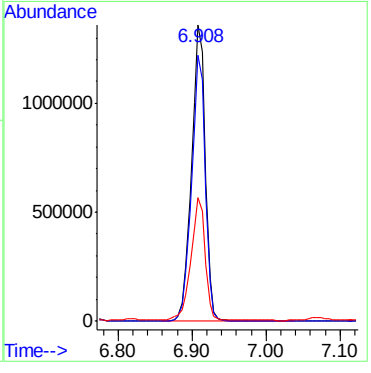




#35
1-Methylnaphthalene
Concen: 46.79 ug/ml
RT: 6.908 min Scan# 864
Delta R.T. -0.048 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

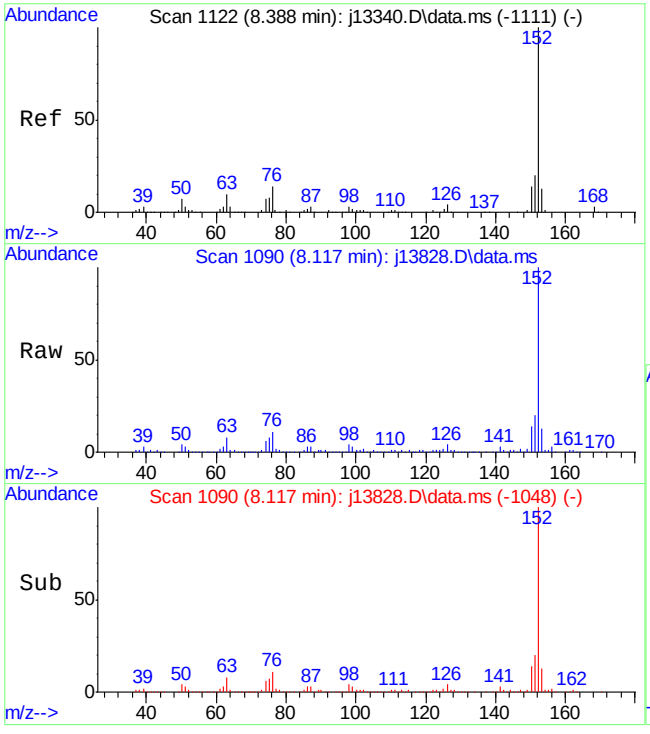
Tgt Ion:142 Resp: 1744359

Ion	Ratio	Lower	Upper
142	100		
141	89.2	69.4	109.4
115	42.6	18.9	58.9



8.1.20

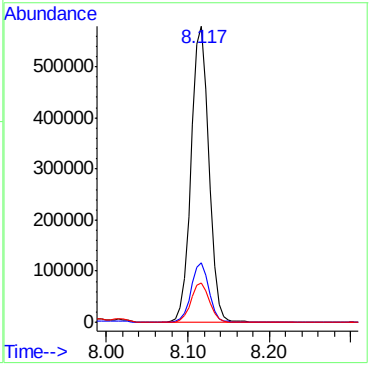
8

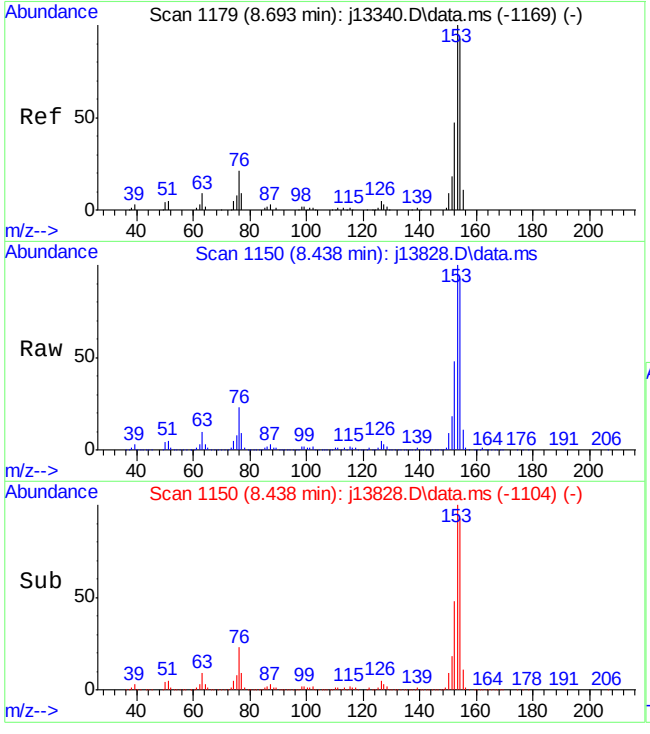


#44
Acenaphthylene
Concen: 16.00 ug/ml
RT: 8.117 min Scan# 1090
Delta R.T. -0.277 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:152 Resp: 878065

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.2	40.2
153	13.7	0.0	33.0

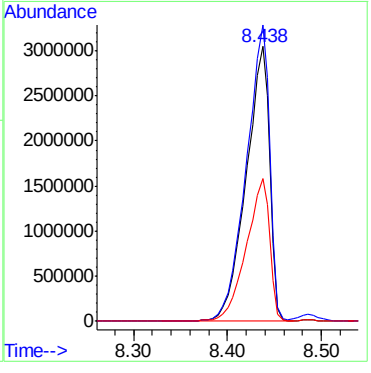


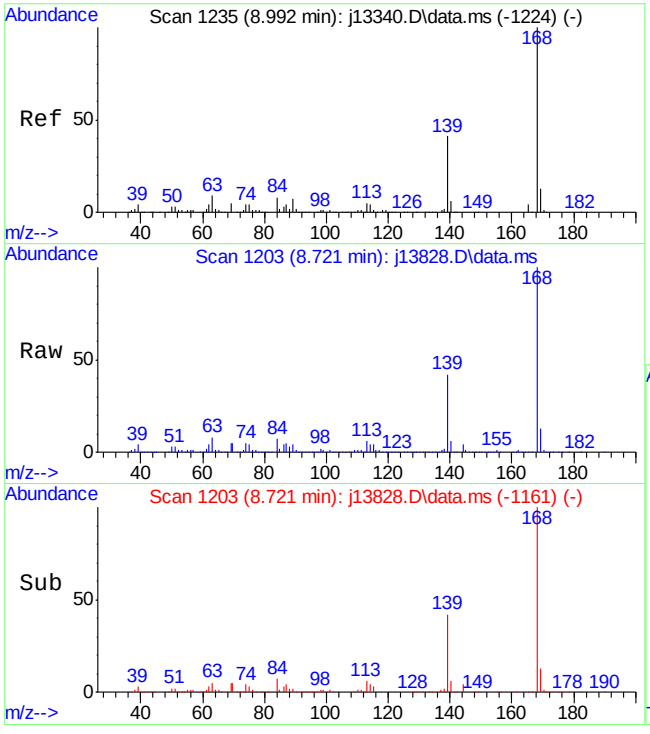


#47
Acenaphthene
Concen: 163.56 ug/ml
RT: 8.438 min Scan# 1150
Delta R.T. -0.255 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:154 Resp: 5274542

Ion	Ratio	Lower	Upper
154	100		
153	107.6	87.9	127.9
152	51.5	31.3	71.3

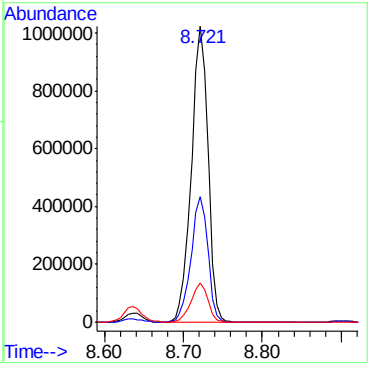


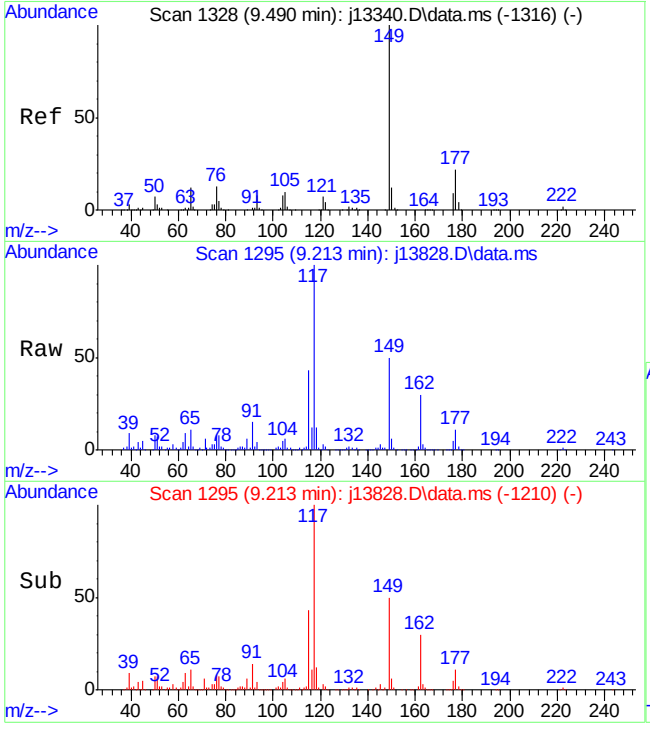


#50
Dibenzofuran
Concen: 32.82 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:168 Resp: 1511609

Ion	Ratio	Lower	Upper
168	100		
139	42.6	21.2	61.2
169	13.4	0.0	33.2

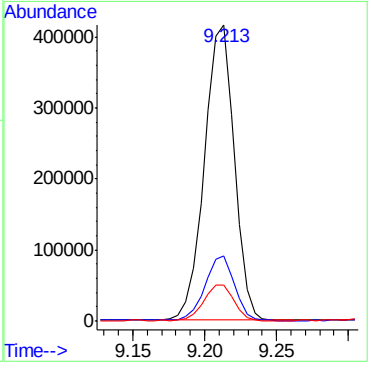




#53
Diethylphthalate
Concen: 14.78 ug/ml
RT: 9.213 min Scan# 1295
Delta R.T. -0.043 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

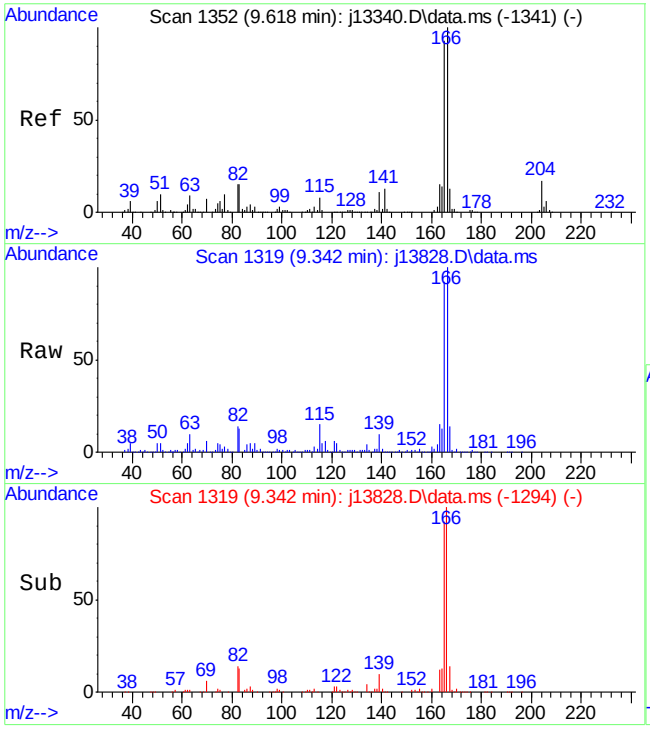
Tgt Ion:149 Resp: 596642

Ion	Ratio	Lower	Upper
149	100		
177	21.6	2.2	42.2
150	12.4	0.0	32.2



8.1.20

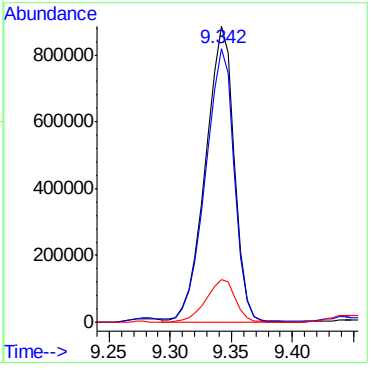
8

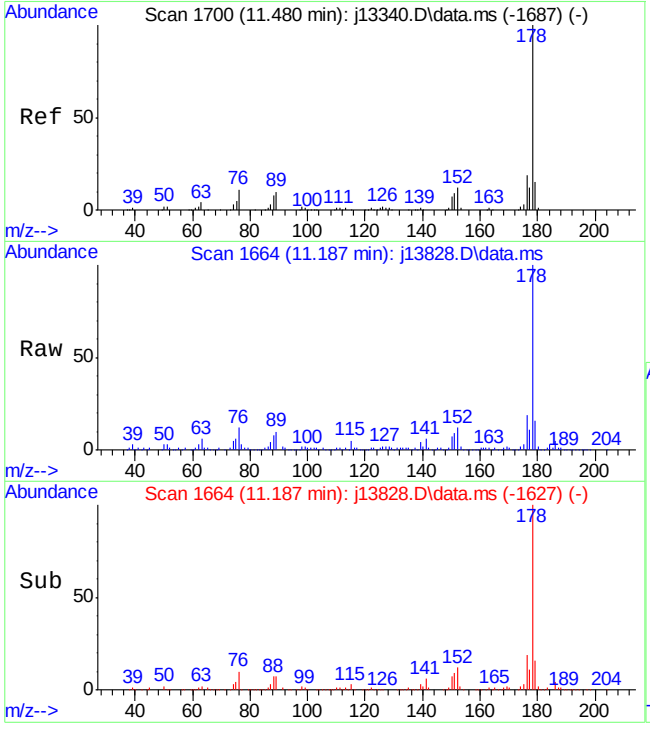


#54
Fluorene
Concen: 35.92 ug/ml
RT: 9.342 min Scan# 1319
Delta R.T. -0.064 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:166 Resp: 1441968

Ion	Ratio	Lower	Upper
166	100		
165	92.7	73.8	113.8
167	14.8	0.0	33.3

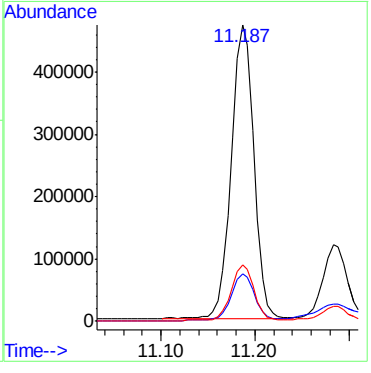


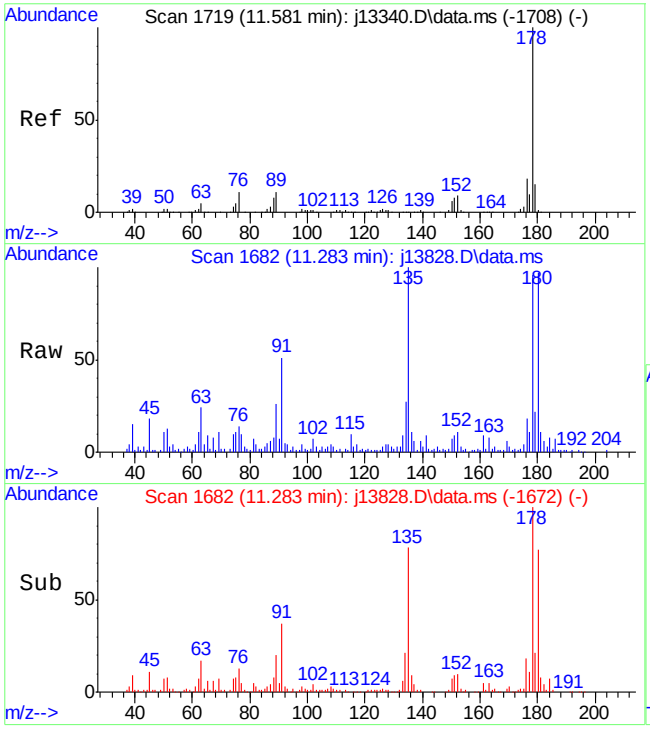


#66
Phenanthrene
Concen: 18.21 ug/ml
RT: 11.187 min Scan# 1664
Delta R.T. -0.000 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:178 Resp: 793379

Ion	Ratio	Lower	Upper
178	100		
179	16.9	0.0	35.2
176	19.2	0.0	38.8

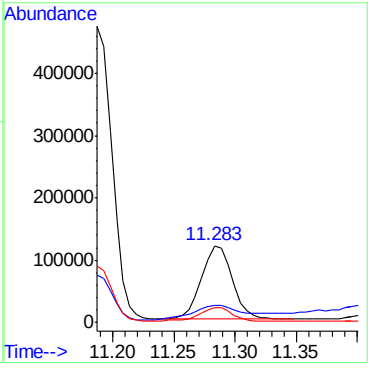


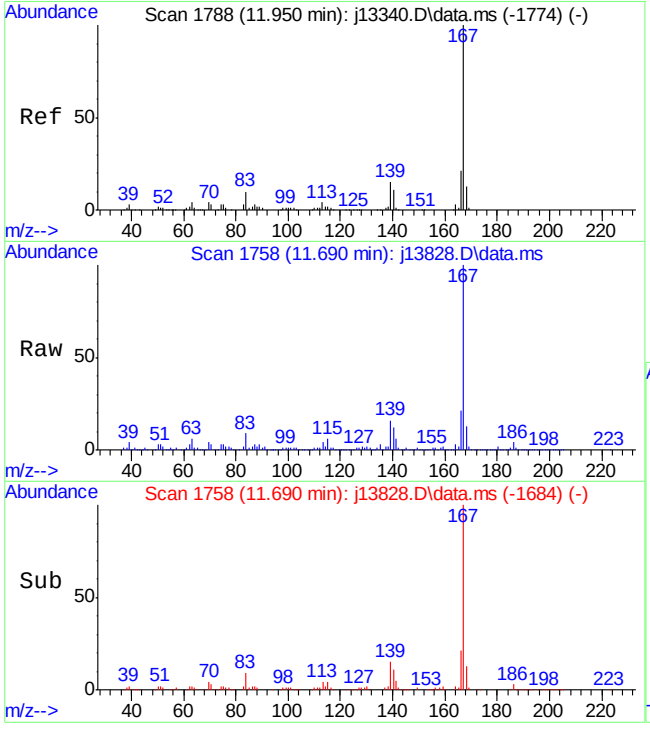


#67
Anthracene
Concen: 4.92 ug/ml
RT: 11.283 min Scan# 1682
Delta R.T. -0.146 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:178 Resp: 206202

Ion	Ratio	Lower	Upper
178	100		
179	27.1	0.0	35.1
176	20.1	0.0	38.3

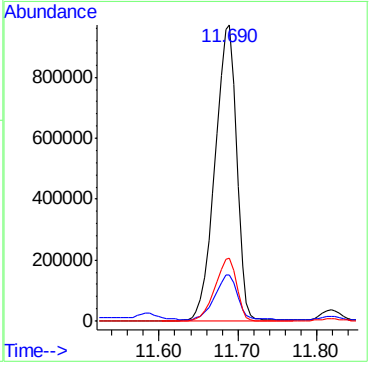


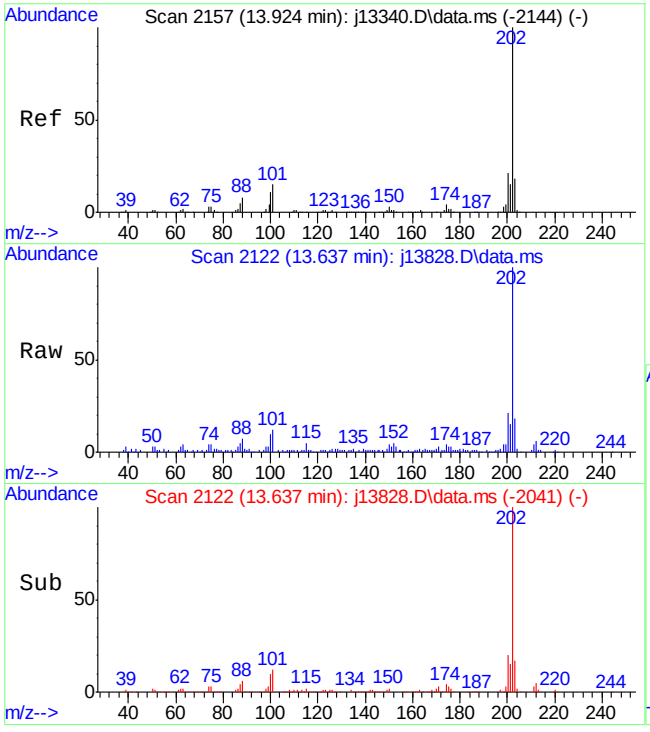


#68
Carbazole
Concen: 55.03 ug/ml
RT: 11.690 min Scan# 1758
Delta R.T. -0.104 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:167 Resp: 1858453

Ion	Ratio	Lower	Upper
167	100		
139	16.4	0.0	34.1
166	21.1	0.9	40.9

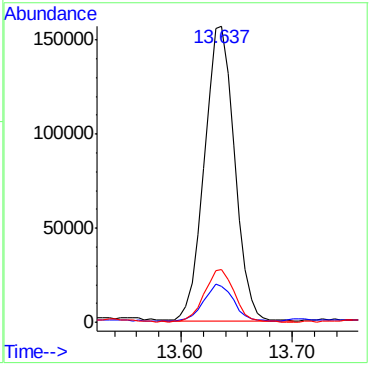


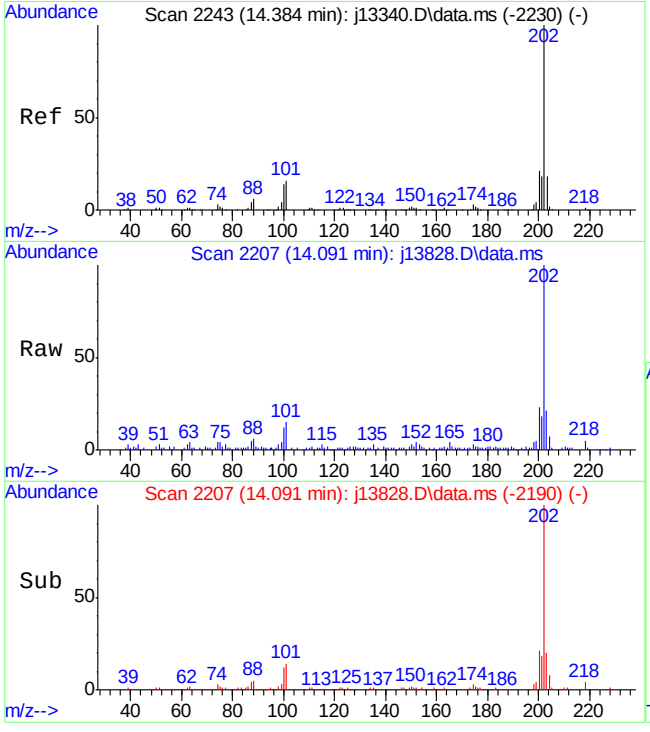


#70
Fluoranthene
Concen: 7.42 ug/ml
RT: 13.637 min Scan# 2122
Delta R.T. -0.064 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:202 Resp: 293023

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	33.9
203	18.1	0.0	37.3

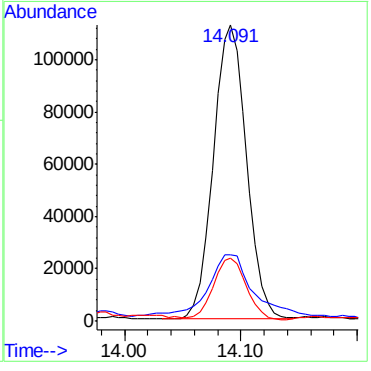




#73
Pyrene
Concen: 7.45 ug/ml
RT: 14.091 min Scan# 2207
Delta R.T. -0.109 min
Lab File: j13828.D
Acq: 14 Oct 2009 9:03 pm

Tgt Ion:202 Resp: 223317

Ion	Ratio	Lower	Upper
202	100		
200	28.0	0.5	40.5
203	20.5	0.0	37.8



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13828.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.554	233	237	248	rBV	6050103	5977555	17.50%	2.273%
2	3.629	248	251	261	rVB	528404	710849	2.08%	0.270%
3	3.704	262	265	276	rBV	2483465	3170351	9.28%	1.206%
4	3.822	283	287	302	rVB	1766380	1993695	5.84%	0.758%
5	4.399	392	395	404	rVB2	384592	551663	1.61%	0.210%
6	4.485	408	411	424	rVB	2327248	3224774	9.44%	1.226%
7	4.576	424	428	429	rBV	654664	709373	2.08%	0.270%
8	4.597	429	432	445	rVB	3779119	4470685	13.09%	1.700%
9	4.704	448	452	460	rBV	3507600	3846903	11.26%	1.463%
10	4.763	460	463	476	rVB	873505	1132294	3.31%	0.431%
11	4.870	476	483	485	rBV	20475340	34162588	100.00%	12.993%
12	4.934	490	495	500	rVV	9915362	8887343	26.01%	3.380%
13	5.111	523	528	532	rBV2	230692	391522	1.15%	0.149%
14	5.154	532	536	539	rVV	1840811	2051305	6.00%	0.780%
15	5.196	539	544	554	rVB2	2699967	3625335	10.61%	1.379%
16	5.271	554	558	563	rBV	1320798	1368537	4.01%	0.520%
17	5.325	563	568	572	rBV	1319979	1905672	5.58%	0.725%
18	5.635	622	626	631	rVB2	2036673	2426265	7.10%	0.923%
19	5.678	631	634	640	rVV	403599	679137	1.99%	0.258%
20	5.737	640	645	652	rVB4	319467	773313	2.26%	0.294%
21	5.876	667	671	673	rBV	530986	629968	1.84%	0.240%
22	5.908	673	677	686	rVB2	4394785	6159812	18.03%	2.343%
23	5.988	686	692	698	rBV	4341198	5418033	15.86%	2.061%
24	6.106	706	714	724	rVB3	1570668	2617672	7.66%	0.996%
25	6.191	724	730	732	rBV2	235851	357993	1.05%	0.136%
26	6.234	732	738	746	rVB	4451861	6018609	17.62%	2.289%
27	6.368	757	763	770	rBV4	306111	618546	1.81%	0.235%
28	6.464	770	781	785	rBV	8680665	11208463	32.81%	4.263%
29	6.507	785	789	804	rVB5	244300	576764	1.69%	0.219%
30	6.625	804	811	816	rBV	2361819	3125288	9.15%	1.189%
31	6.710	821	827	832	rBV	493464	687743	2.01%	0.262%
32	6.908	850	864	875	rVB	5270131	7892887	23.10%	3.002%
33	7.068	889	894	898	rBV	532098	772345	2.26%	0.294%
34	7.111	898	902	905	rVB2	254675	343617	1.01%	0.131%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	7.298	931	937	943	rVB	3516240	4619920	13.52%	1.757%
36	7.438	955	963	967	rBV2	606457	1102305	3.23%	0.419%
37	7.571	975	988	991	rBV3	453721	1233157	3.61%	0.469%
38	7.807	1026	1032	1037	rBV	702180	1144625	3.35%	0.435%
39	7.999	1057	1068	1079	rVB4	341079	981504	2.87%	0.373%
40	8.117	1080	1090	1102	rBV	1466051	2518328	7.37%	0.958%
41	8.363	1122	1136	1141	rBV	3774554	8442570	24.71%	3.211%
42	8.438	1141	1150	1155	rVB	12912920	24409605	71.45%	9.283%
43	8.486	1155	1159	1163	rBV2	256453	472818	1.38%	0.180%
44	8.571	1170	1175	1178	rBV2	377863	672612	1.97%	0.256%
45	8.609	1178	1182	1184	rVV	290747	402425	1.18%	0.153%
46	8.721	1194	1203	1210	rBV	2784228	4343632	12.71%	1.652%
47	9.213	1249	1295	1299	rBV5	3764892	23017050	67.38%	8.754%
48	9.342	1315	1319	1329	rVB	3674946	5872274	17.19%	2.233%
49	9.449	1334	1339	1344	rVV5	416514	789086	2.31%	0.300%
50	9.497	1345	1348	1354	rVB4	514384	791864	2.32%	0.301%
51	9.620	1355	1371	1379	rBV6	1082117	4002749	11.72%	1.522%
52	9.689	1379	1384	1396	rVB5	675882	2039281	5.97%	0.776%
53	9.812	1399	1407	1412	rBV	2215719	3780236	11.07%	1.438%
54	10.042	1437	1450	1452	rBV	1126961	2018515	5.91%	0.768%
55	10.074	1452	1456	1467	rVB	1416981	2788312	8.16%	1.060%
56	10.165	1467	1473	1476	rBV2	446603	822771	2.41%	0.313%
57	10.283	1486	1495	1497	rBV2	396485	939668	2.75%	0.357%
58	10.320	1498	1502	1508	rVB2	744268	1206109	3.53%	0.459%
59	10.545	1536	1544	1554	rVB2	532745	1296691	3.80%	0.493%
60	10.641	1554	1562	1567	rBV	236752	541890	1.59%	0.206%
61	10.786	1584	1589	1600	rVB3	337599	807794	2.36%	0.307%
62	10.925	1609	1615	1618	rBV	226811	455742	1.33%	0.173%
63	10.978	1620	1625	1636	rVB	611257	1297621	3.80%	0.494%
64	11.144	1648	1656	1660	rBV2	2540428	4653887	13.62%	1.770%
65	11.187	1660	1664	1670	rVB	1206897	1915280	5.61%	0.728%
66	11.289	1673	1683	1685	rBV2	767471	1814717	5.31%	0.690%
67	11.690	1748	1758	1762	rBV	2612647	5365528	15.71%	2.041%
68	11.872	1787	1792	1802	rVB	376156	791001	2.32%	0.301%
69	11.962	1802	1809	1817	rBV	1010040	2129631	6.23%	0.810%
70	12.112	1832	1837	1846	rBV3	172411	433223	1.27%	0.165%
71	12.246	1857	1862	1866	rBV2	248945	470010	1.38%	0.179%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

72	12.385	1882	1888	1894	rBV3	358929	866355	2.54%	0.329%
73	12.449	1895	1900	1904	rBV	394506	780444	2.28%	0.297%
74	12.668	1936	1941	1954	rVB5	214184	598065	1.75%	0.227%
75	12.872	1974	1979	1987	rVB3	191273	364623	1.07%	0.139%
76	12.947	1987	1993	2001	rVV3	267682	600562	1.76%	0.228%
77	13.032	2002	2009	2021	rVB3	223022	636316	1.86%	0.242%
78	13.567	2105	2109	2115	rVB	230747	394956	1.16%	0.150%
79	13.631	2115	2121	2130	rVB	428796	827903	2.42%	0.315%
80	14.091	2200	2207	2214	rBV	295085	578660	1.69%	0.220%
81	14.508	2277	2285	2295	rVB	1829289	3148664	9.22%	1.198%
82	14.664	2306	2314	2327	rVB2	198266	550988	1.61%	0.210%
83	14.883	2347	2355	2366	rVB2	209552	665798	1.95%	0.253%
84	16.659	2678	2687	2696	rBV	1260135	2585173	7.57%	0.983%
85	19.467	3202	3212	3225	rBV	660410	1466172	4.29%	0.558%

Sum of corrected areas: 262936009

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On    : 14 Oct 2009   9:03 pm
Operator  : sheilac
Sample    : t39646-7
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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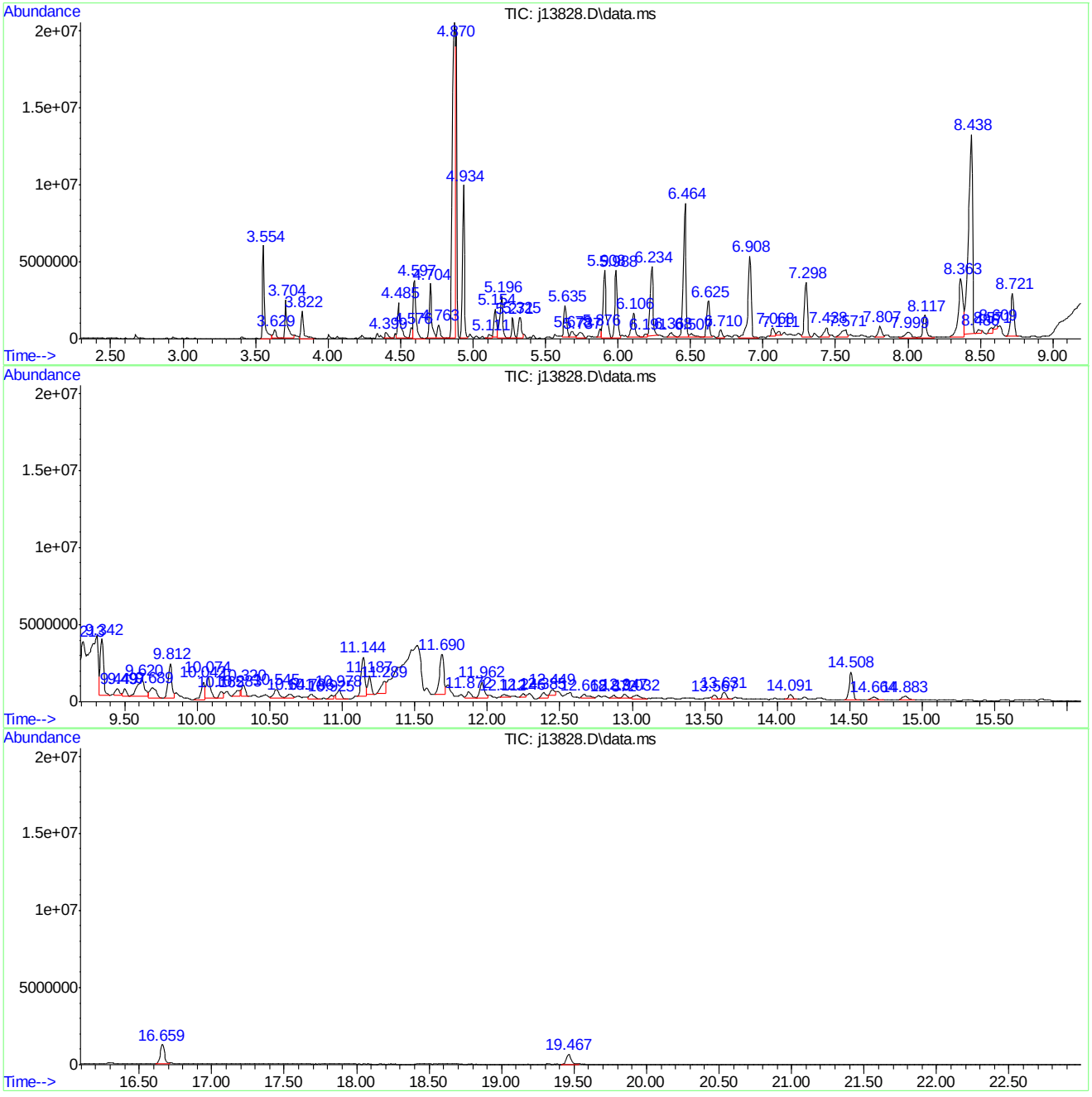

Library Search Compound Report

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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

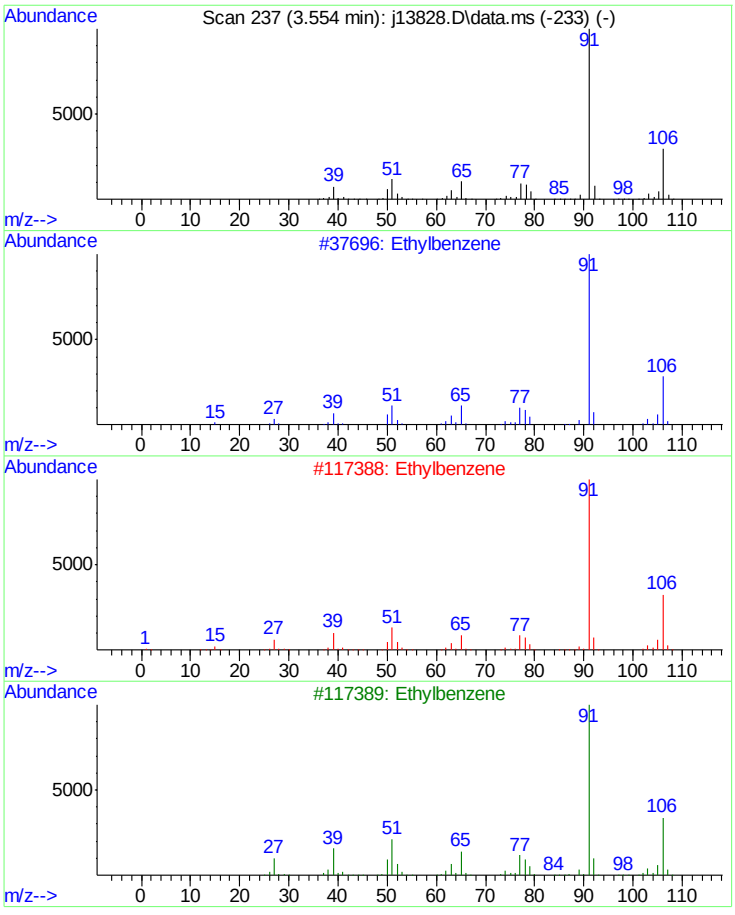
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

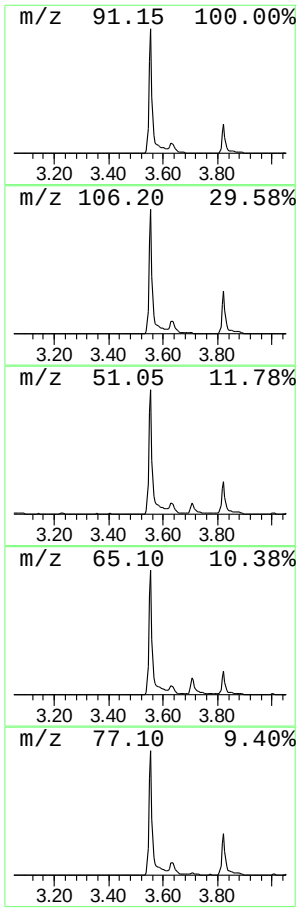
****

Peak Number 1 Ethylbenzene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.554	62.15 ug/ml	5977560	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	95
2	Ethylbenzene	106	C8H10	000100-41-4	94
3	Ethylbenzene	106	C8H10	000100-41-4	91
4	1,3-Cyclopentadiene, 5-(1-methyl...	106	C8H10	002175-91-9	74
5	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	72





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Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

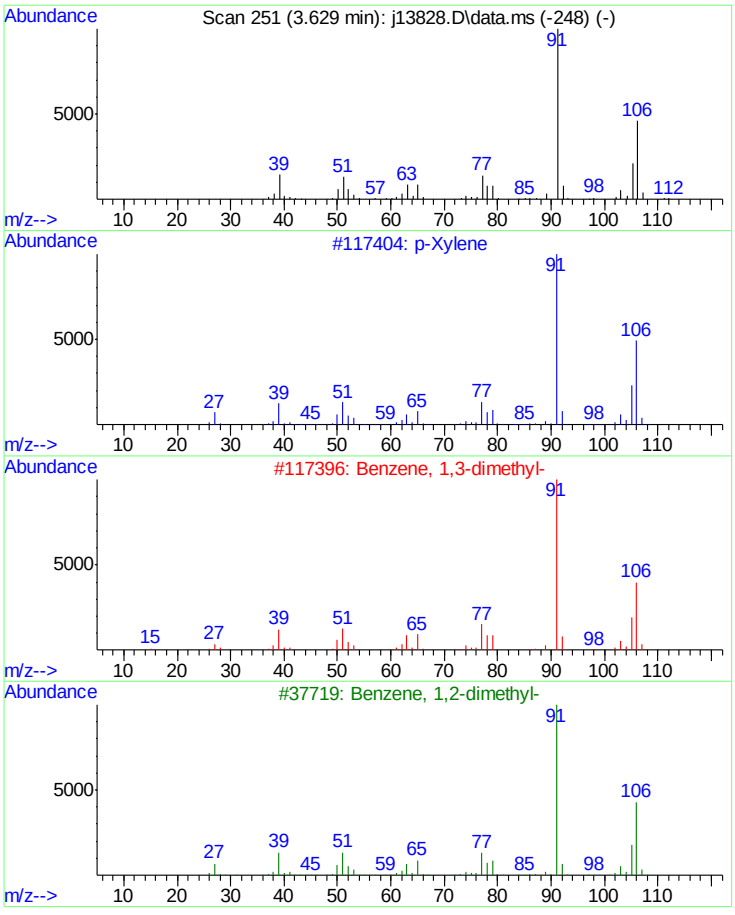
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

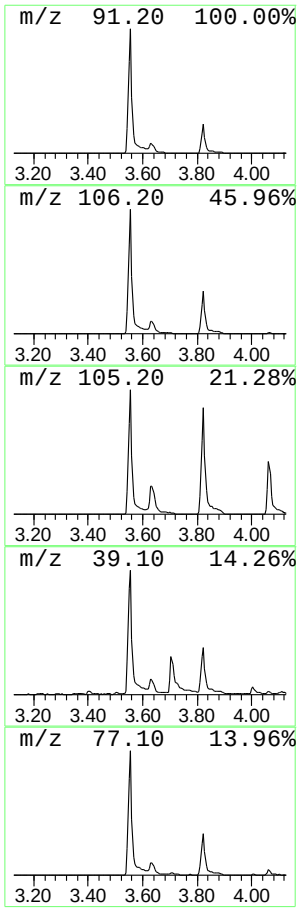
****

Peak Number 2 p-Xylene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.629	7.39 ug/ml	710849	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	97
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
5	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	95





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ALS Vial : 19 Sample Multiplier: 1

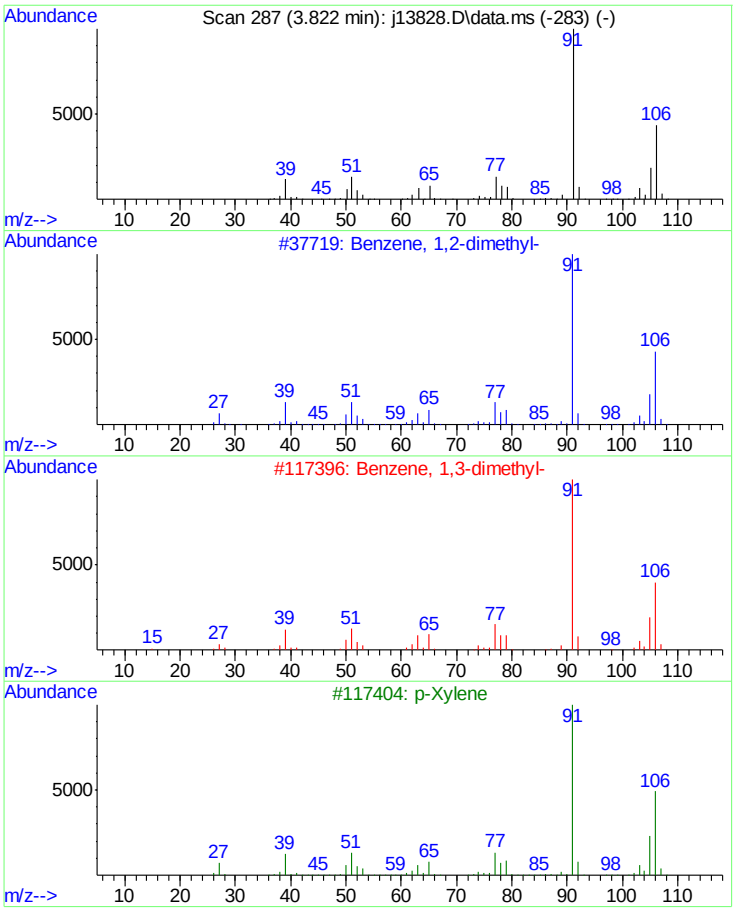
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

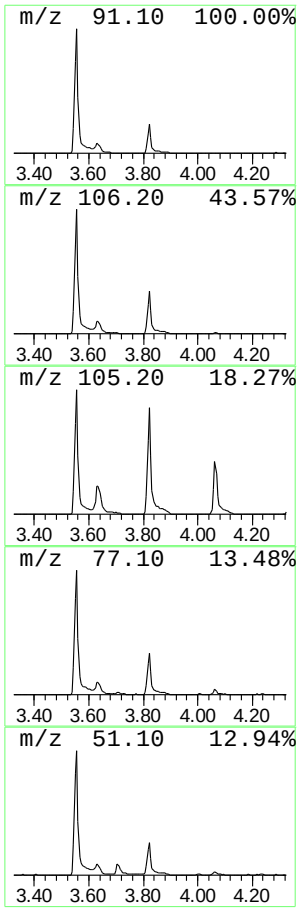
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1,2-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.822	20.73 ug/ml	1993700	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	p-Xylene	106	C8H10	000106-42-3	97
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
5	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95





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Operator : sheilac
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ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 4 Benzofuran Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.597	46.49 ug/ml	4470690	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	94
2	Benzofuran	118	C8H6O	000271-89-6	94
3	Benzofuran	118	C8H6O	000271-89-6	91
4	Benzofuran	118	C8H6O	000271-89-6	91
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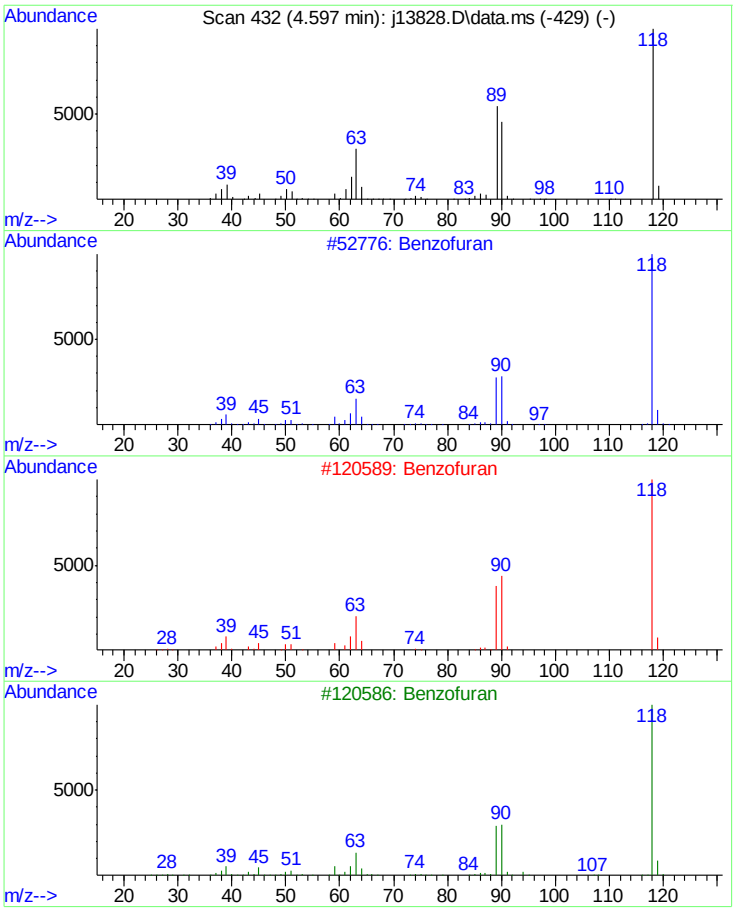

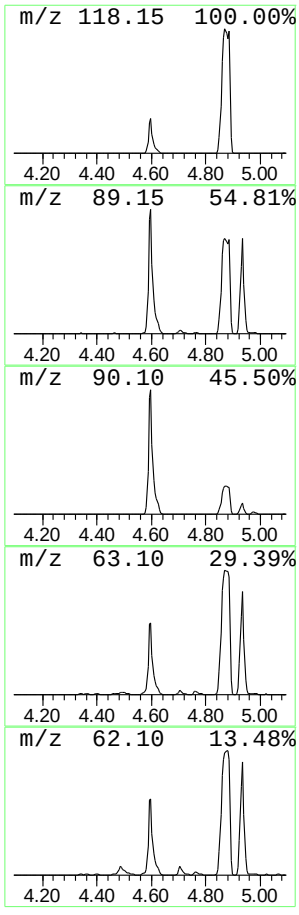

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Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

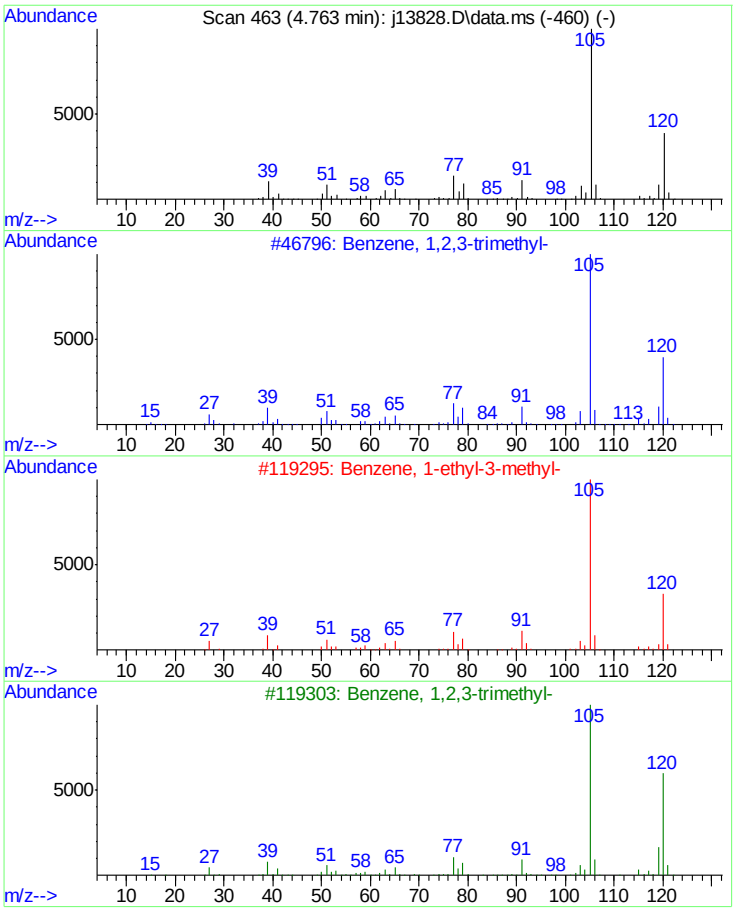
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

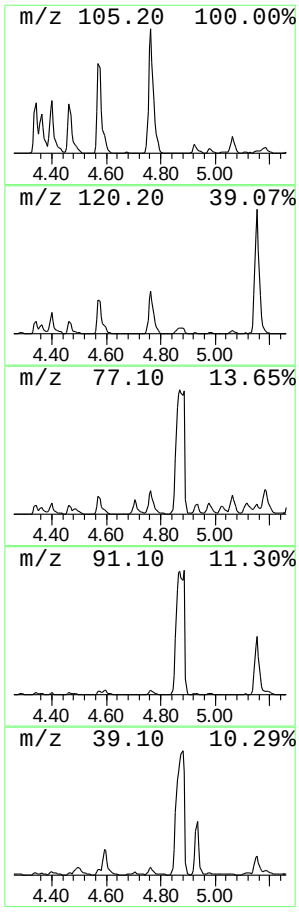
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1,2,3-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.763	11.77 ug/ml	1132290	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
5	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91





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Sample : t39646-7
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ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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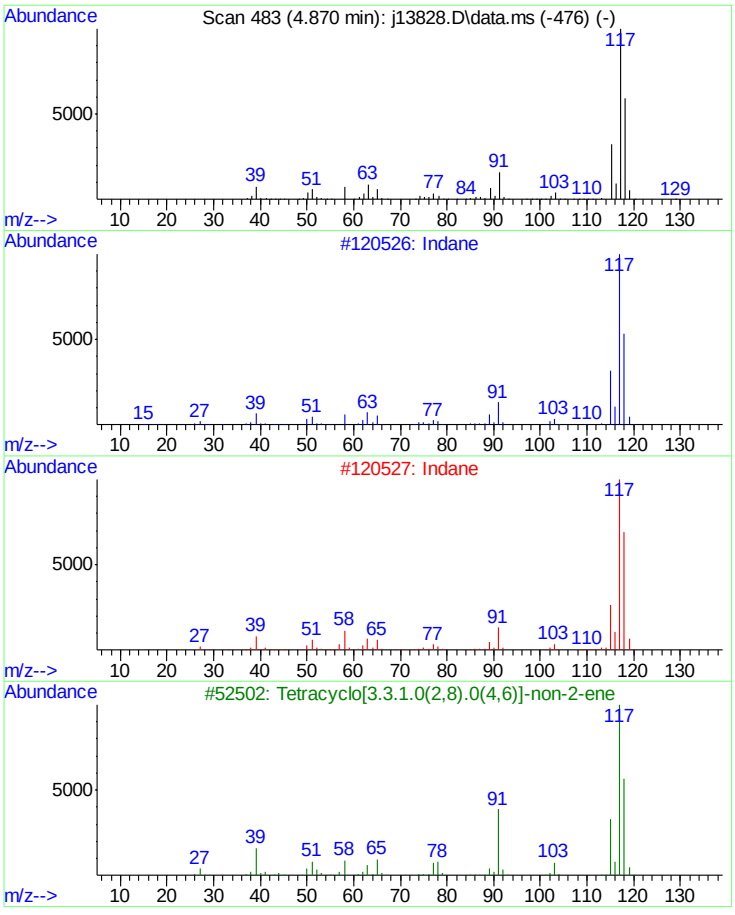
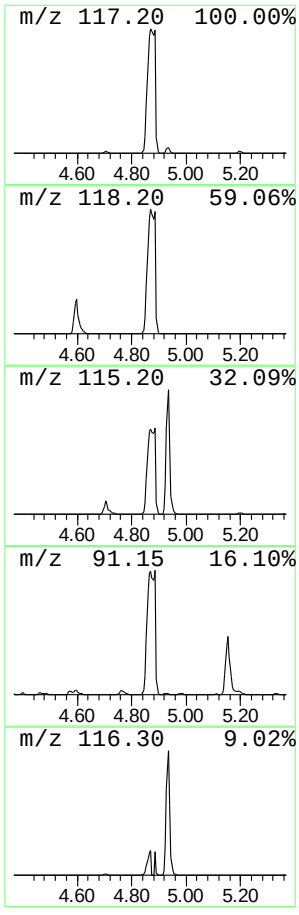
Peak Number 6 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.870	355.22 ug/ml	34162600	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Indane	118	C9H10	000496-11-7	87
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	74
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74





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Acq On : 14 Oct 2009 9:03 pm
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Sample : t39646-7
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ALS Vial : 19 Sample Multiplier: 1

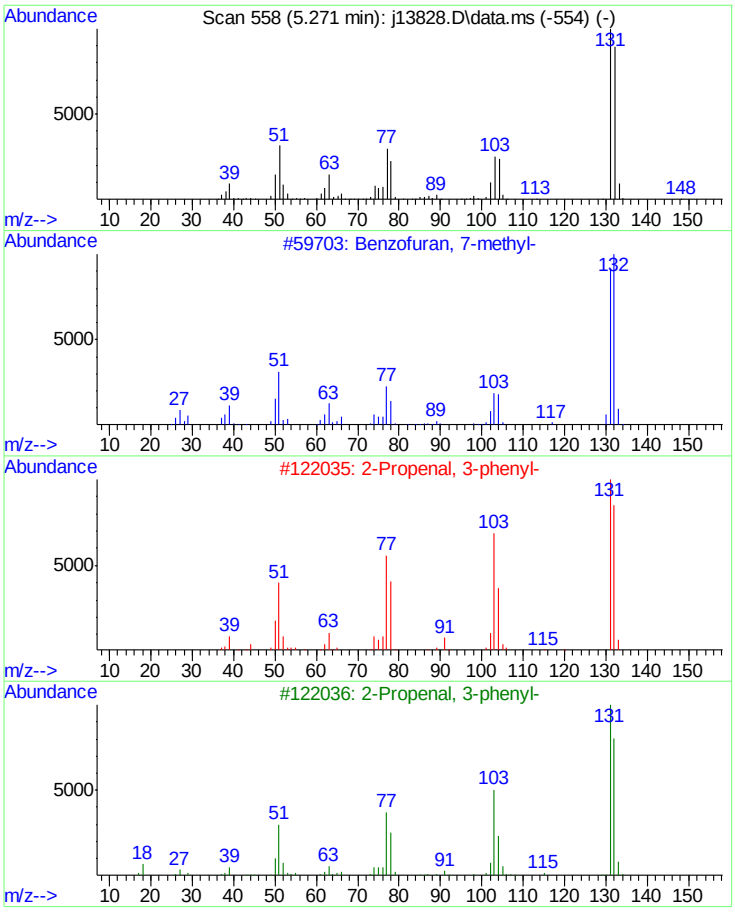
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

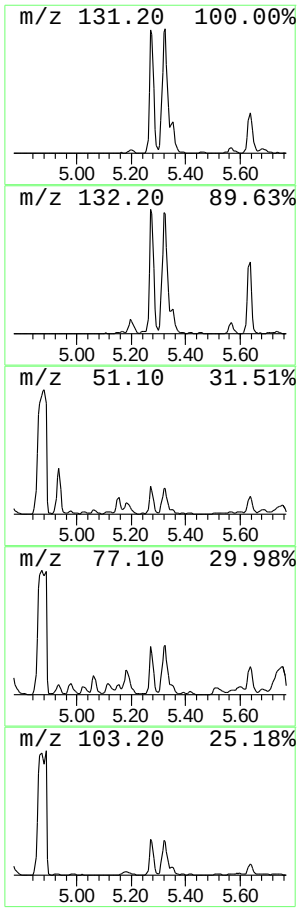
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzofuran, 7-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.271	14.23 ug/ml	1368540	1,4-Dichlorobenzene-d4	4.704

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	94
2	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	93
3	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	93
4	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90





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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

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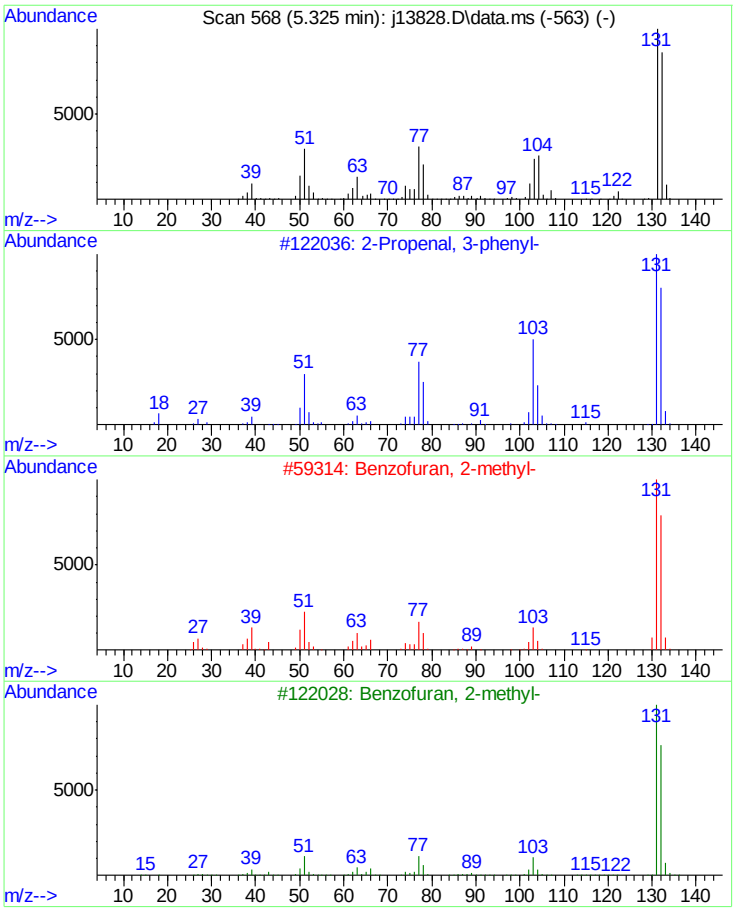
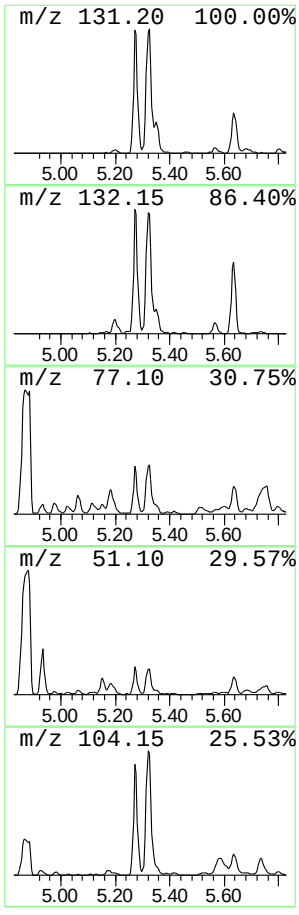
Peak Number 8 2-Propenal, 3-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.325	12.37 ug/ml	1905670	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	93
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90
4	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	90
5	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	90





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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 9 Benzo[c]thiophene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.988	35.18 ug/ml	5418030	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]thiophene	134	C8H6S	000270-82-6	95
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
4	Cyclopenta[b]thiapyran	134	C8H6S	000271-17-0	94
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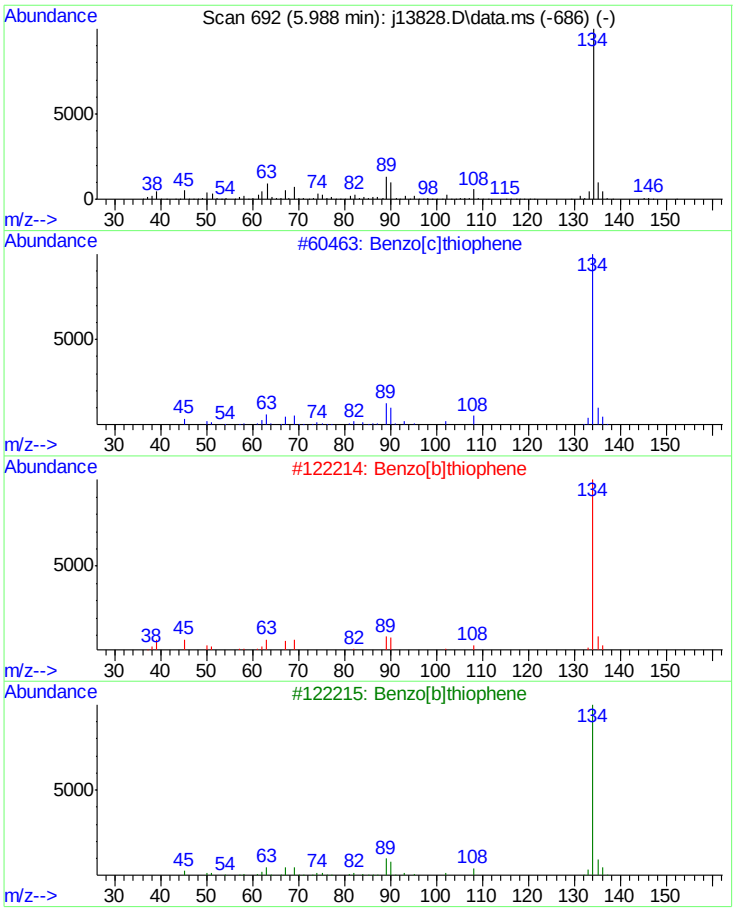

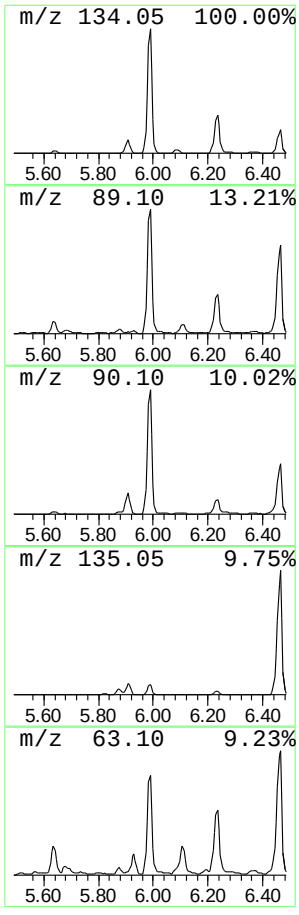

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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

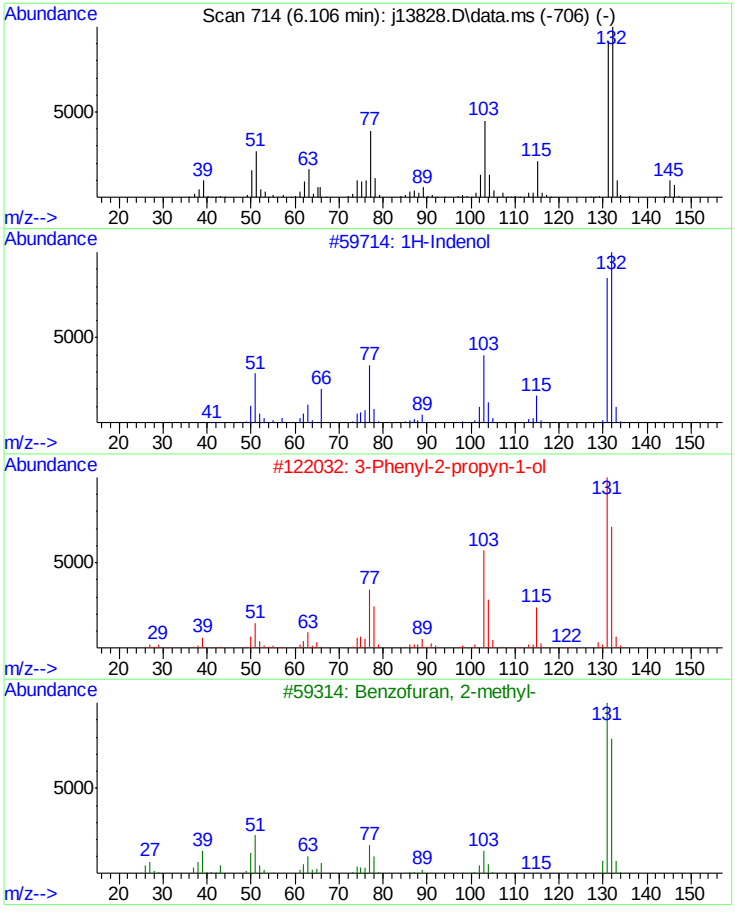
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

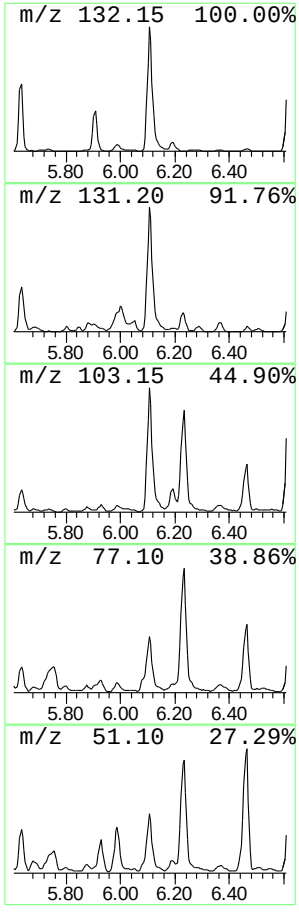
****

Peak Number 10 1H-Indenol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.106	17.00 ug/ml	2617670	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indenol	132	C9H8O	056631-57-3	95
2	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	90
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	90
4	Benzaldehyde, ethenyl-	132	C9H8O	043145-54-6	87
5	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	83





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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

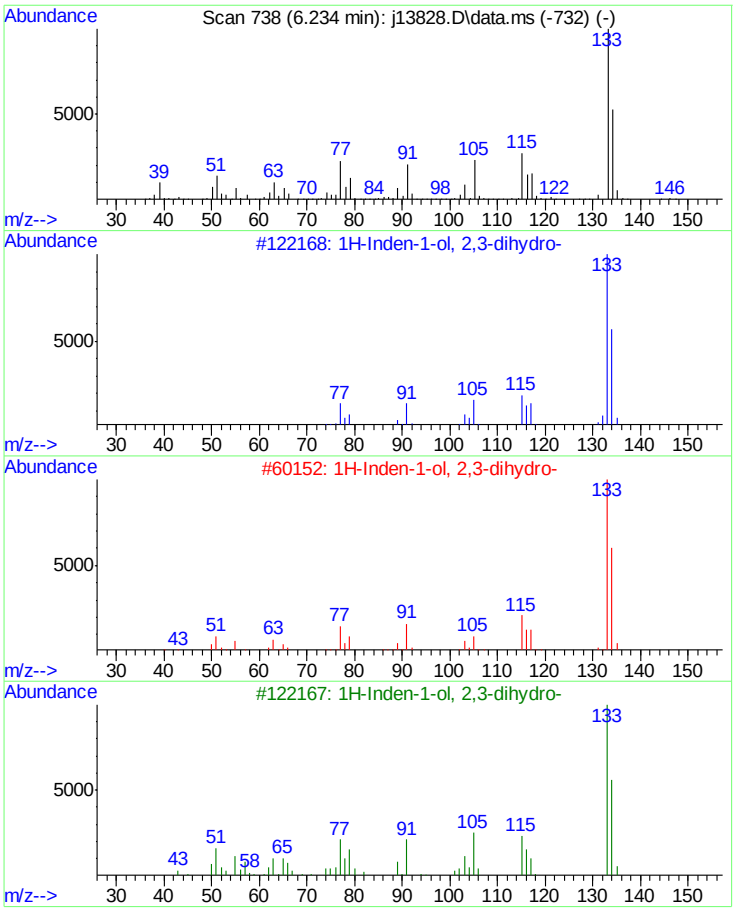
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

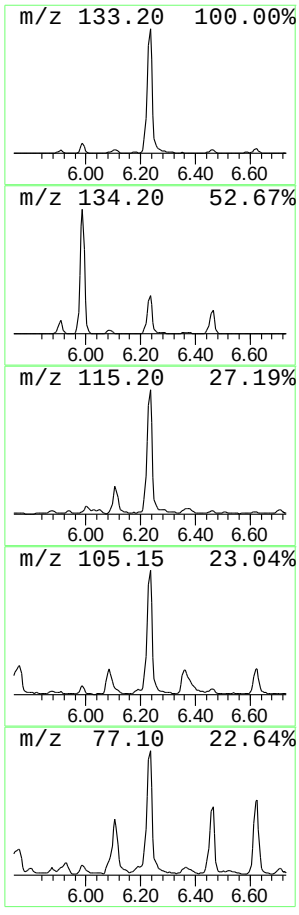
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 1H-Inden-1-ol, 2,3-dihydro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.234	39.08 ug/ml	6018610	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Inden-1-ol, 2,3-dihydro-	134	C9H10O	006351-10-6	96
2	1H-Inden-1-ol, 2,3-dihydro-	134	C9H10O	006351-10-6	93
3	1H-Inden-1-ol, 2,3-dihydro-	134	C9H10O	006351-10-6	90
4	Phenol, 4-(2-propenyl)-	134	C9H10O	000501-92-8	52
5	Benzaldehyde, 2,4-dimethyl-	134	C9H10O	015764-16-6	52





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Operator : sheilac
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Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

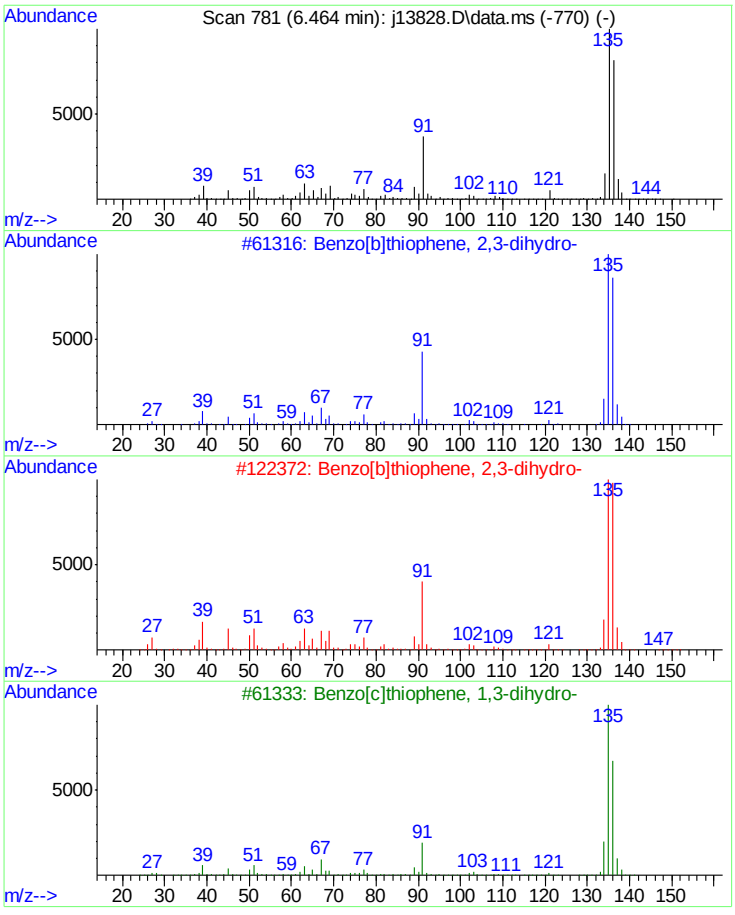
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

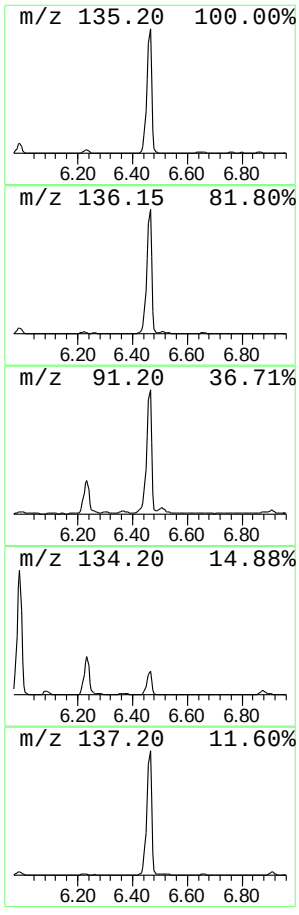
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.464	72.78 ug/ml	11208500	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	92
2	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	91
3	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S	002471-92-3	87
4	Benzene, (ethenylthio)-	136	C8H8S	001822-73-7	87
5	Benzaldehyde, 4-methoxy-	136	C8H8O2	000123-11-5	80





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

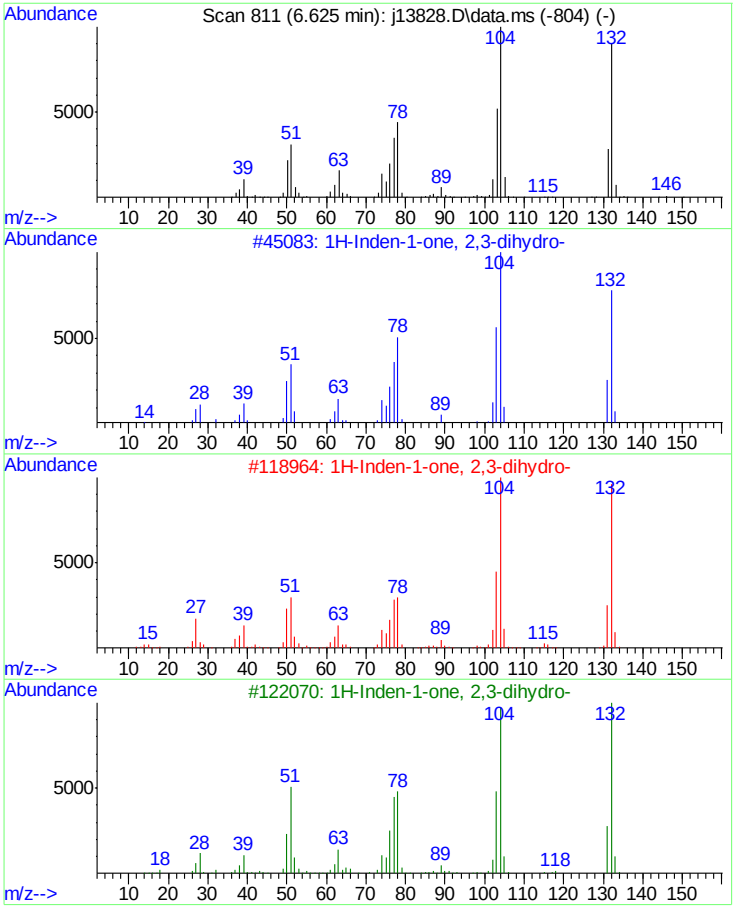
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

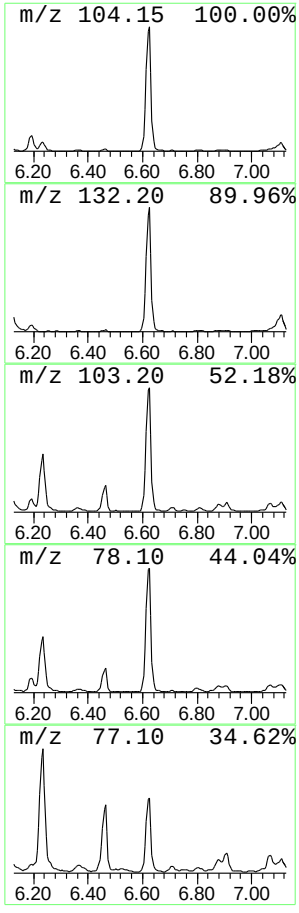
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.625	20.29 ug/ml	3125290	Naphthalene-d8	5.908

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	98
2	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	97
3	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	97
4	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	96
5	1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	64





Library Search Compound Report

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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

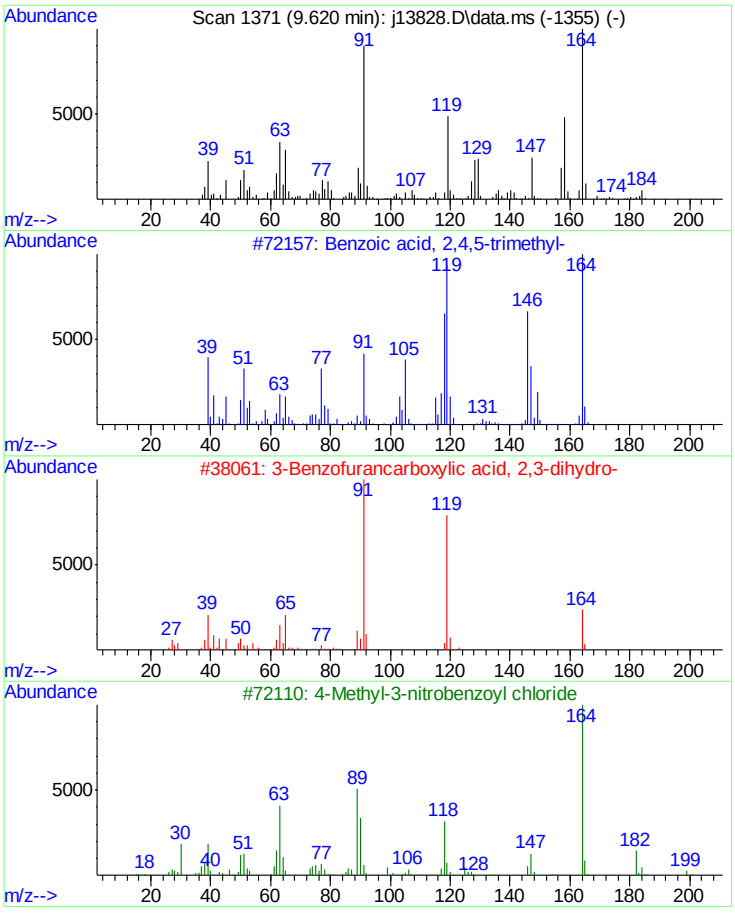
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

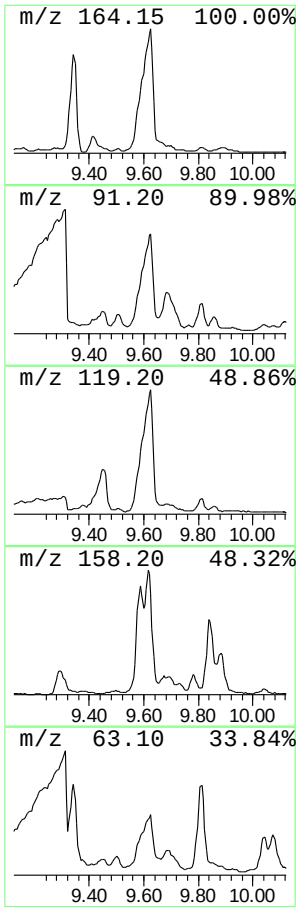
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 Benzoic acid, 2,4,5-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.620	18.96 ug/ml	4002750	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2,4,5-trimethyl-	164	C10H12O2	000528-90-5	27
2	3-Benzofurancarboxylic acid, 2,3...	164	C9H8O3	039891-55-9	27
3	4-Methyl-3-nitrobenzoyl chloride	199	C8H6ClNO3	010397-30-5	23
4	p-Hydroxycinnamic acid	164	C9H8O3	000501-98-4	12
5	Benzoic acid, 2,4,6-trimethyl-	164	C10H12O2	000480-63-7	12





Library Search Compound Report

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Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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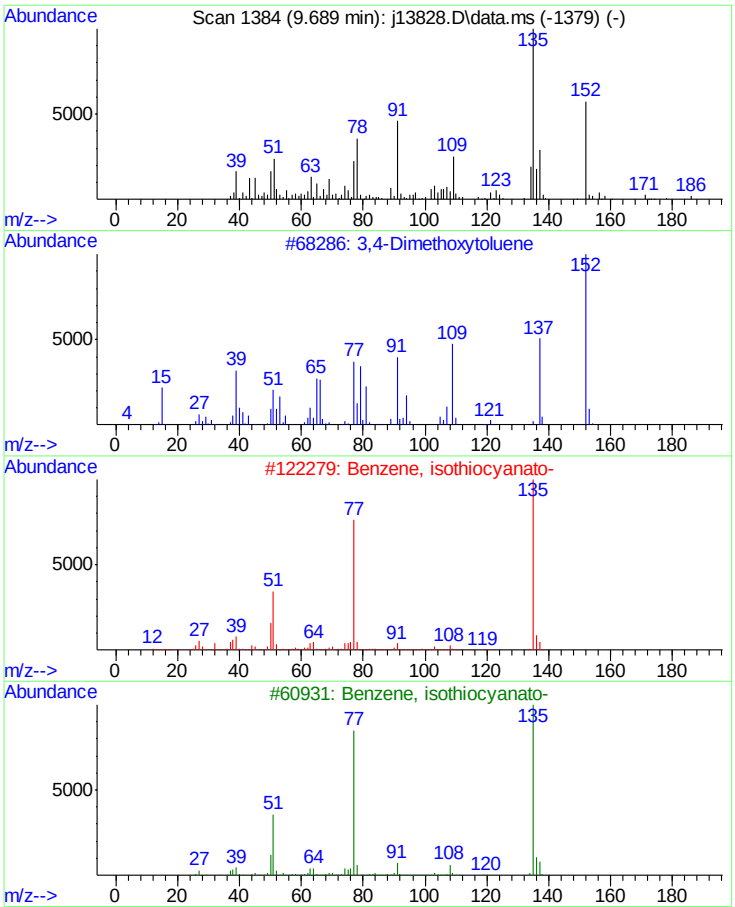
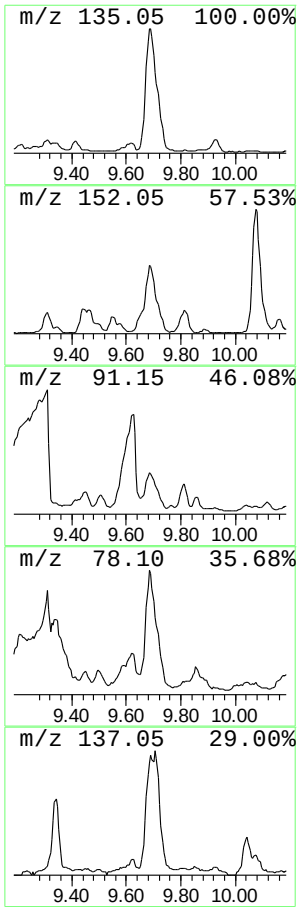
****

Peak Number 15 3,4-Dimethoxytoluene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.689	9.66 ug/ml	2039280	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dimethoxytoluene	152	C9H12O2	000494-99-5	38
2	Benzene, isothiocyanato-	135	C7H5NS	000103-72-0	35
3	Benzene, isothiocyanato-	135	C7H5NS	000103-72-0	35
4	Phenol, 5-methoxy-2,3-dimethyl-	152	C9H12O2	034883-01-7	30
5	Thieno[2,3-c]pyridine	135	C7H5NS	000272-12-8	27





Library Search Compound Report

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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

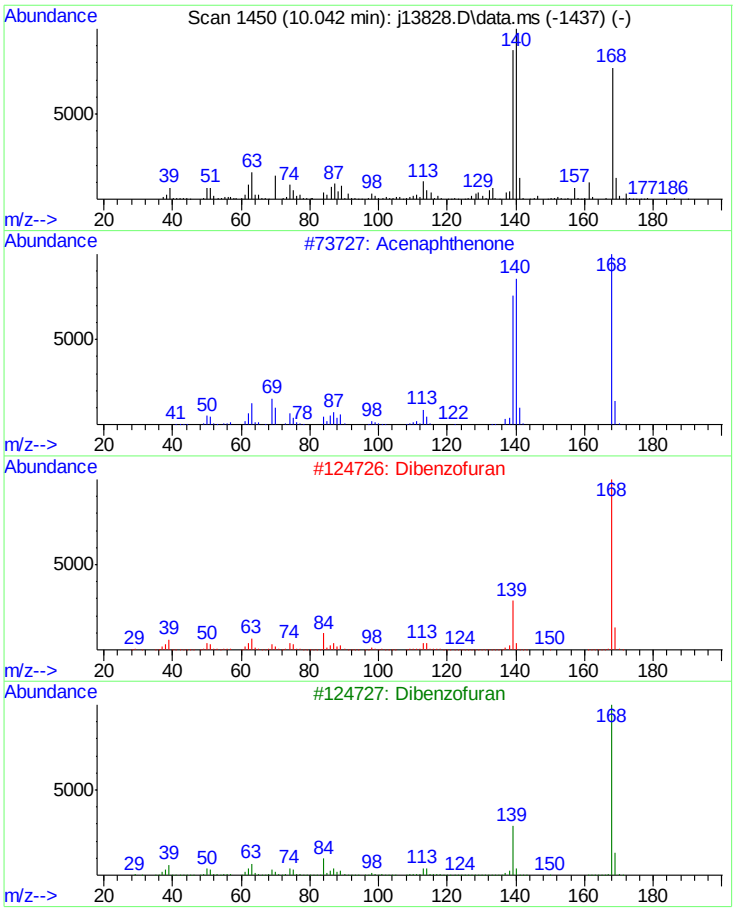
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

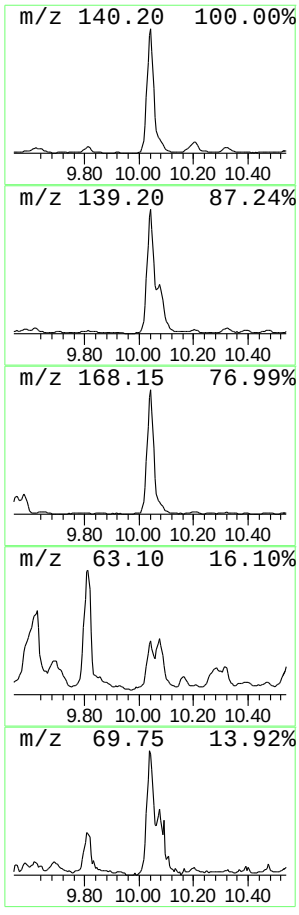
****

Peak Number 16 Acenaphthenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.042	17.35 ug/ml	2018520	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthenone	168	C12H8O	1000128-38-5	95
2	Dibenzofuran	168	C12H8O	000132-64-9	58
3	Dibenzofuran	168	C12H8O	000132-64-9	58
4	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	49
5	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	1000142-39-1	47





Library Search Compound Report

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Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

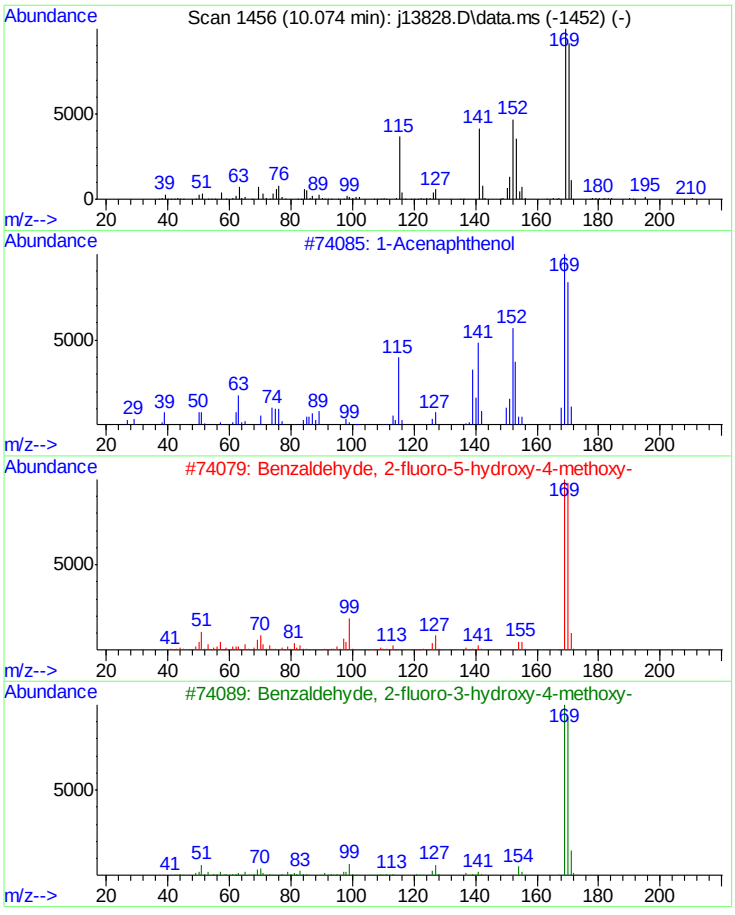
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

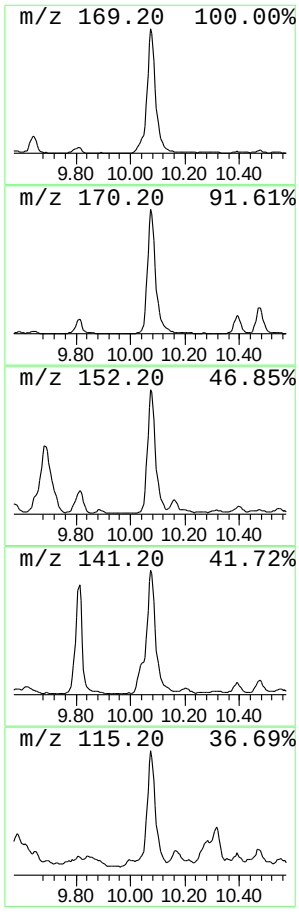
****

Peak Number 17 1-Acenaphthenol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.074	23.97 ug/ml	2788310	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Acenaphthenol	170	C12H10O	006306-07-6	91
2	Benzaldehyde, 2-fluoro-5-hydroxy...	170	C8H7FO3	079418-76-1	46
3	Benzaldehyde, 2-fluoro-3-hydroxy...	170	C8H7FO3	079418-73-8	46
4	6-Fluorovanillin	170	C8H7FO3	079418-77-2	46
5	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	45





Library Search Compound Report

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Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

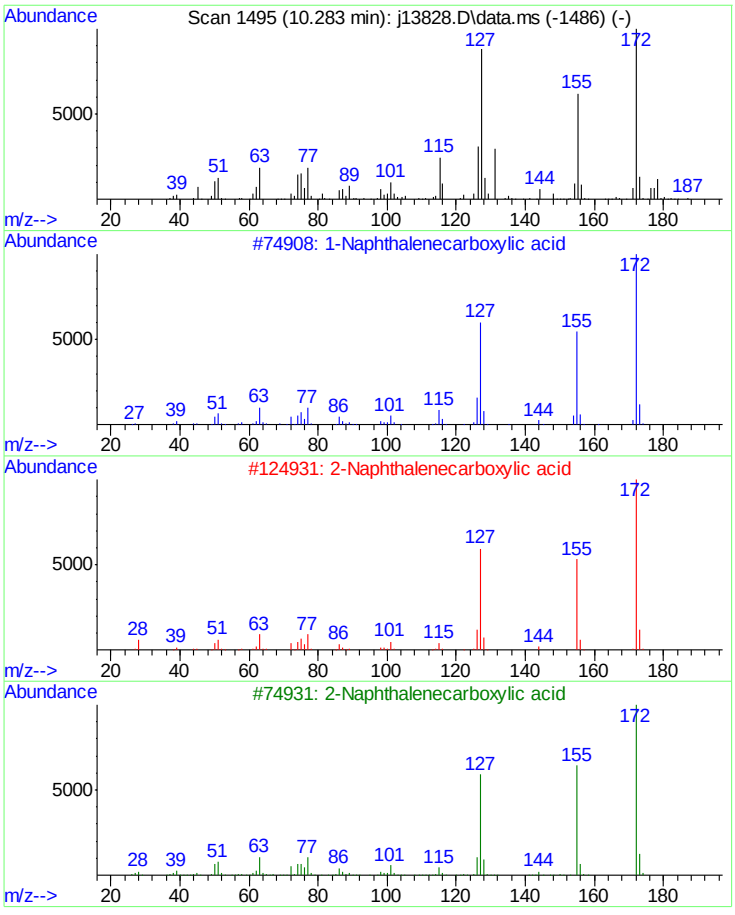
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

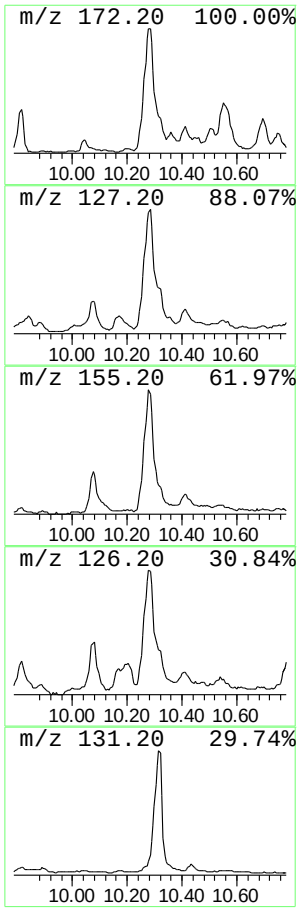
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 1-Naphthalenecarboxylic acid Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.283	8.08 ug/ml	939668	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	93
2	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	90
3	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	90
4	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	87
5	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	87





Library Search Compound Report

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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

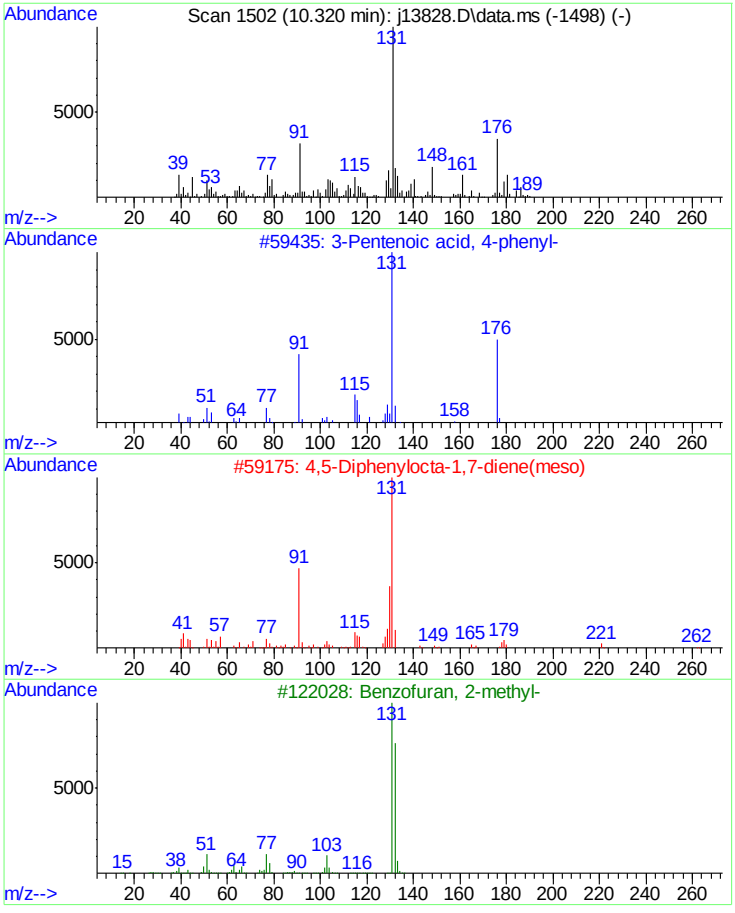
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

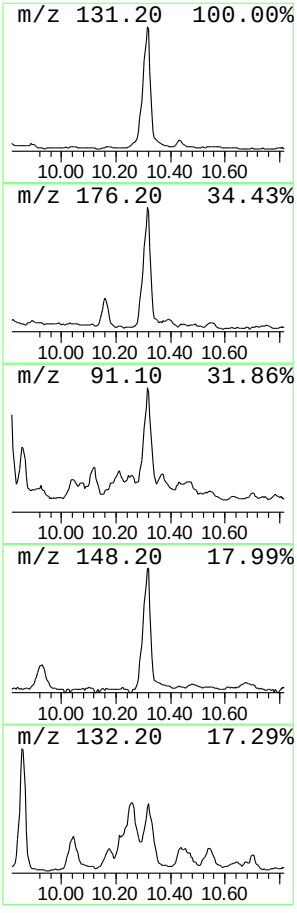
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 3-Pentenoic acid, 4-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.320	10.37 ug/ml	1206110	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentenoic acid, 4-phenyl-	176	C11H12O2	053774-19-9	55
2	4,5-Diphenylocta-1,7-diene(meso)	262	C20H22	1000215-92-7	43
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	38
4	Silane, [1-(5-ethenyltetrahydro-...	242	C13H26O2Si	057428-80-5	38
5	Naphthalene, 5-ethyl-1,2,3,4-tet...	160	C12H16	042775-75-7	38





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Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

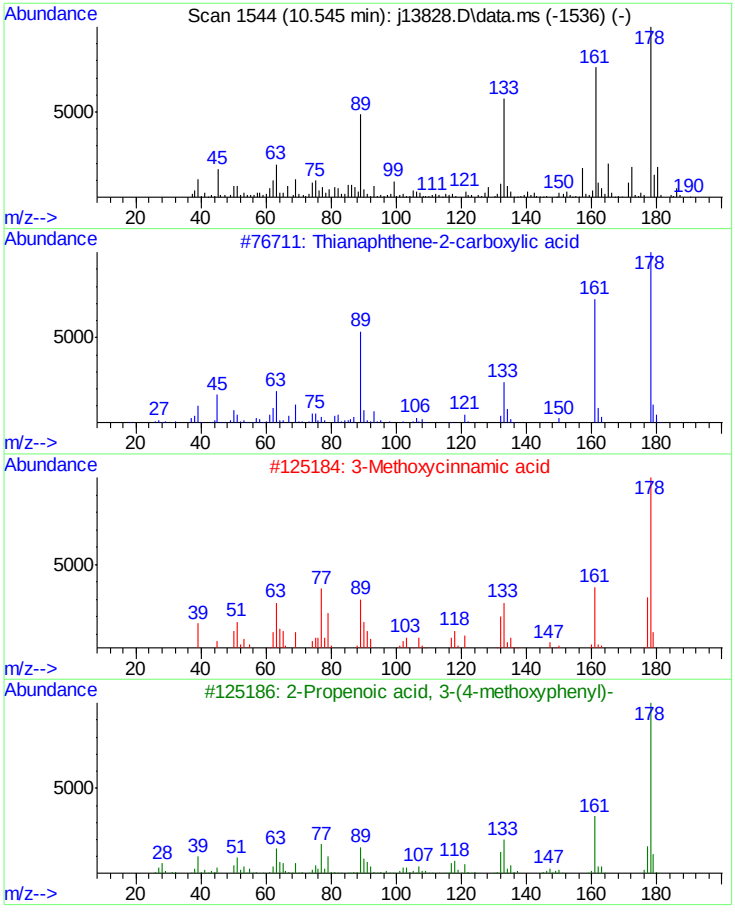
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

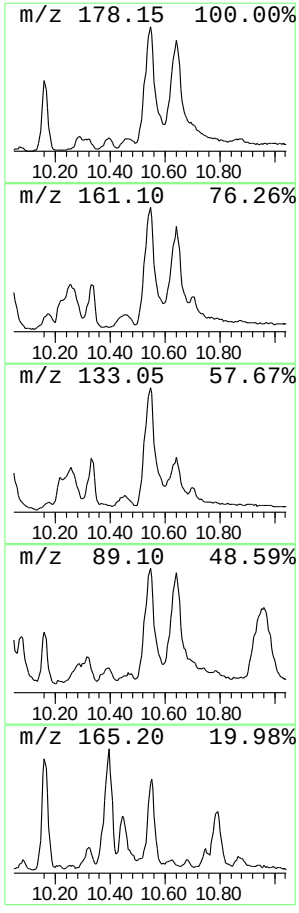
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Thianaphthene-2-carboxylic ... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.545	11.15 ug/ml	1296690	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thianaphthene-2-carboxylic acid	178	C9H6O2S	006314-28-9	90
2	3-Methoxycinnamic acid	178	C10H10O3	006099-04-3	53
3	2-Propenoic acid, 3-(4-methoxyph...	178	C10H10O3	000830-09-1	47
4	1H-Benzotriazole, 1-methyl-6-nitro-	178	C7H6N4O2	025877-35-4	27
5	4-Phenyl-5-chloro-1H-imidazole	178	C9H7ClN2	129399-82-2	25





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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

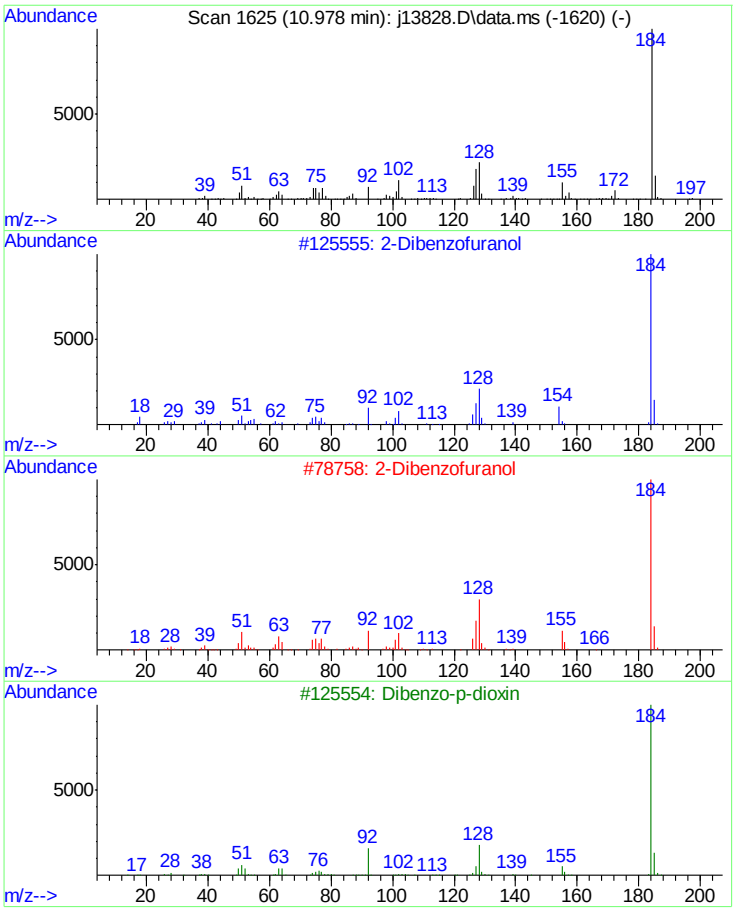
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

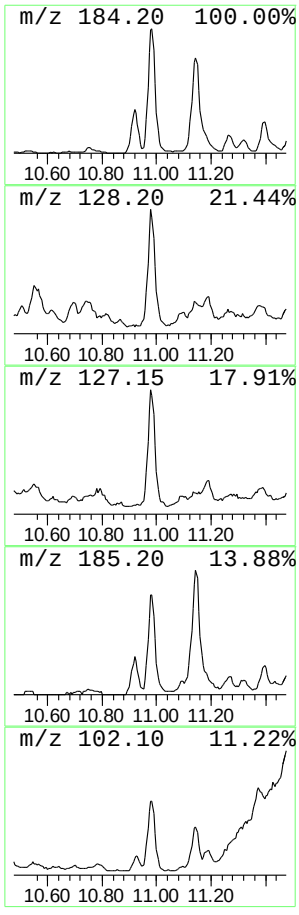
****

Peak Number 21 2-Dibenzofuranol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.978	11.15 ug/ml	1297620	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	93
2	2-Dibenzofuranol	184	C12H8O2	000086-77-1	93
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	87
4	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	83
5	2,2 -Bis-(5-methylpyridyl)	184	C12H12N2	001762-34-1	52





Library Search Compound Report

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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

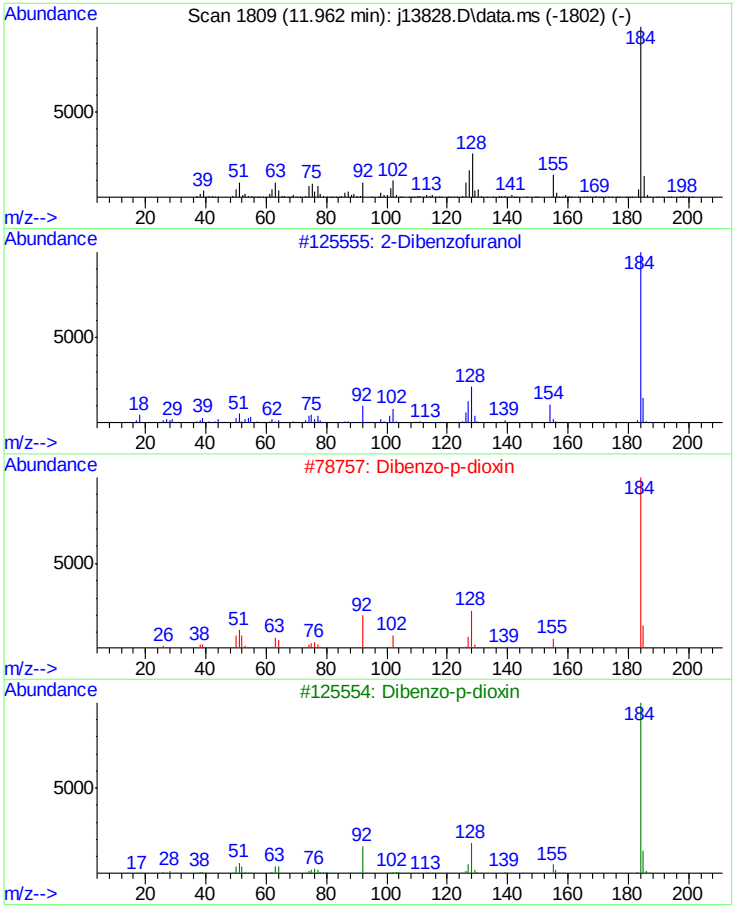
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

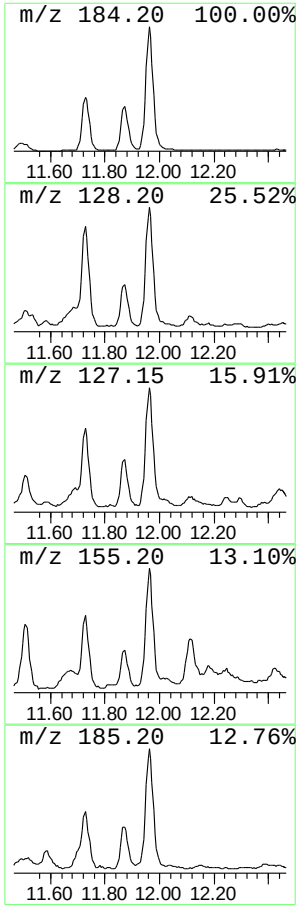
****

Peak Number 22 Dibenzofuranol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.963	18.30 ug/ml	2129630	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	87
2	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	83
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	68
4	1H-Benzimidazole, 2-(2-furanyl)-	184	C11H8N2O	003878-19-1	53
5	2-Dibenzofuranol	184	C12H8O2	000086-77-1	52





Library Search Compound Report

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Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

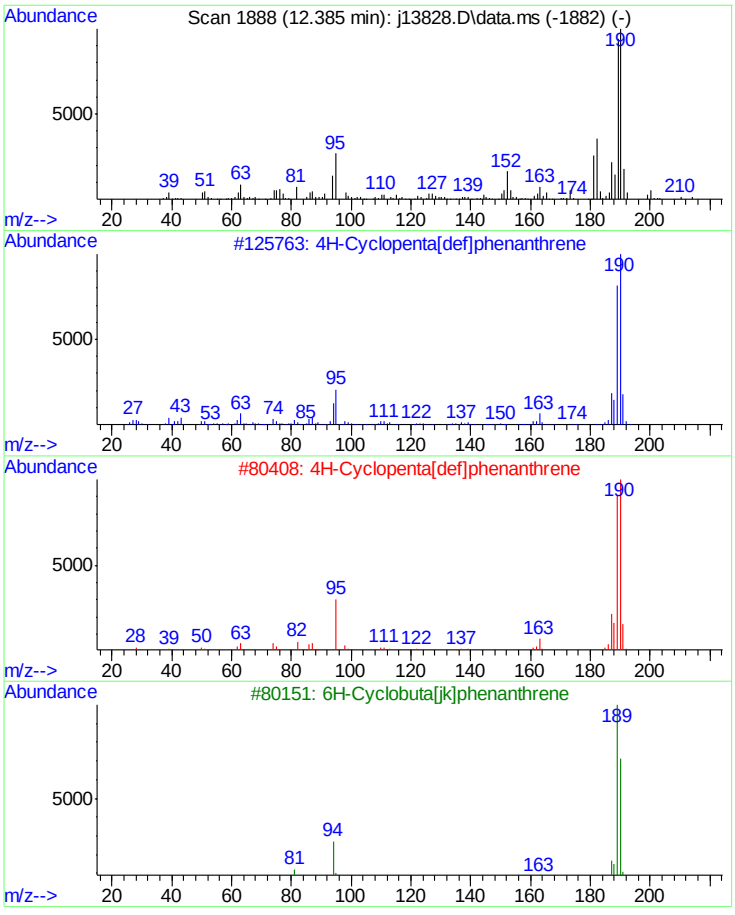
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

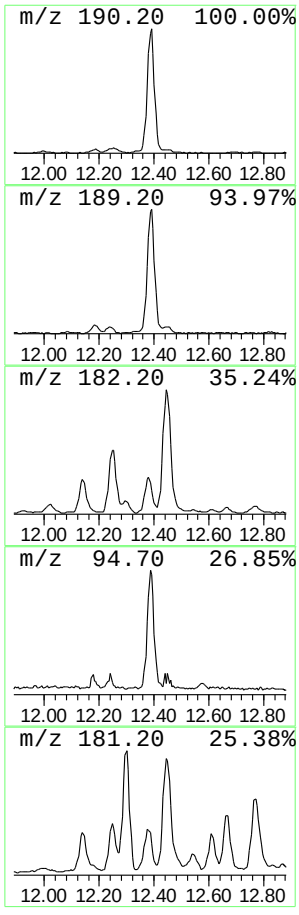
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 4H-Cyclopenta[def]phenanthrene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.385	7.45 ug/ml	866355	Phenanthrene-d10	11.144

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	98
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	97
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	38
5	1,4-Naphthalenedione, 5,8-dihydr...	190	C10H6O4	000475-38-7	38





ACCUTEST Laboratories T39646

Library Search Compound Report

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Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

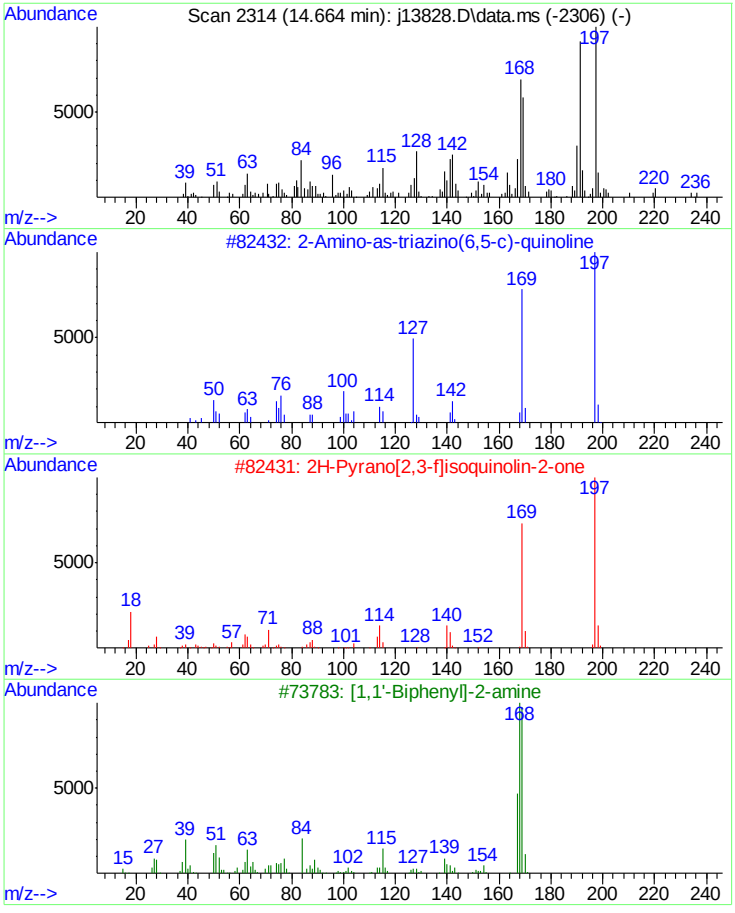
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

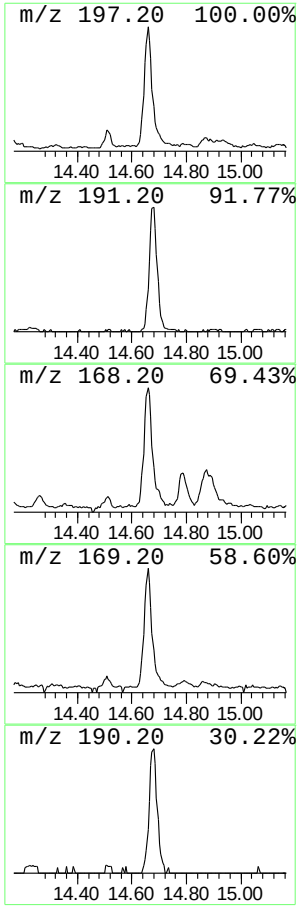
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 2-Amino-as-triazino(6,5-c)-... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.664	8.53 ug/ml	550988	Chrysene-d12	16.659

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Amino-as-triazino(6,5-c)-quino...	197	C10H7N5	1000147-49-2	42
2	2H-Pyrano[2,3-f]isoquinolin-2-one	197	C12H7NO2	054852-71-0	42
3	[1,1'-Biphenyl]-2-amine	169	C12H11N	000090-41-5	25
4	4H-Benzo[def]carbazole	191	C14H9N	000203-65-6	18
5	1,2,3,6-Tetrahydropyridine, 4-[4...	191	C11H13NO2	090684-17-6	14





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

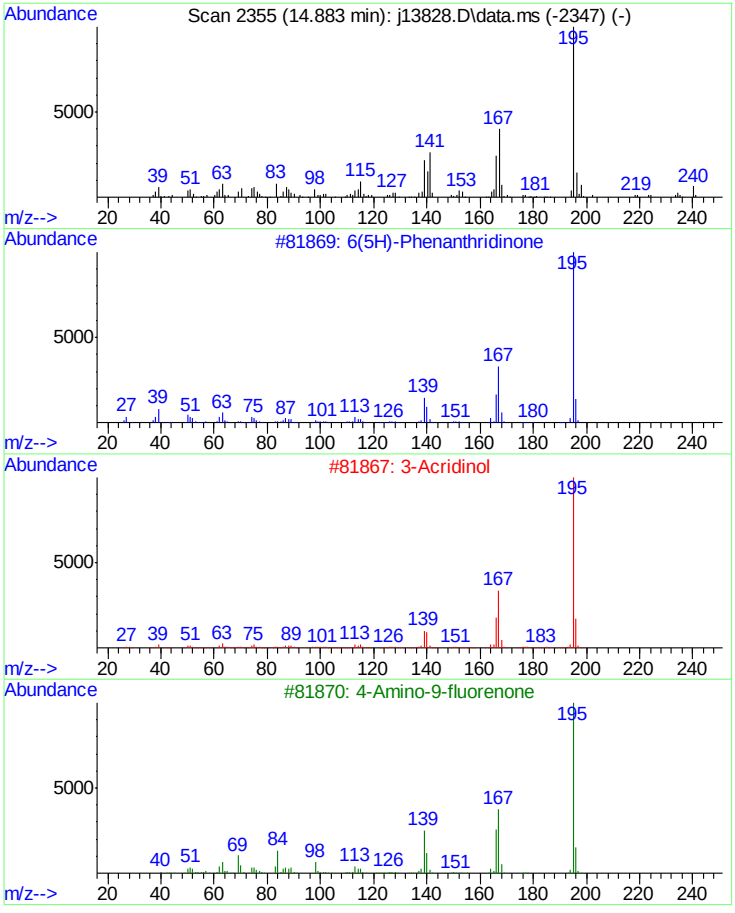
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

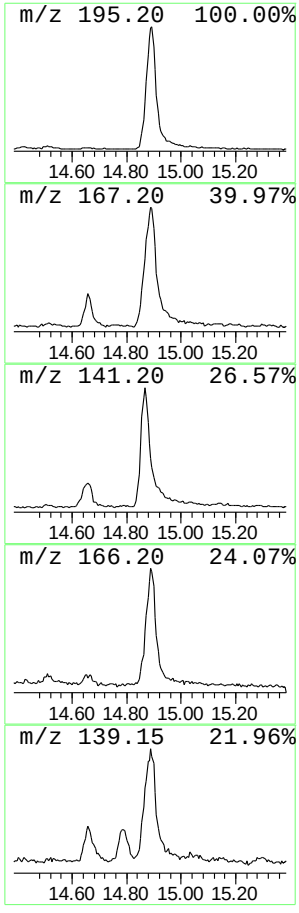
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 6(5H)-Phenanthridinone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.883	10.30 ug/ml	665798	Chrysene-d12	16.659

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	94
2	3-Acridinol	195	C13H9NO	007132-70-9	91
3	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	91
4	8-Methyl-4-azafluorenone	195	C13H9NO	1000216-52-6	90
5	Dibenz[B,F][1,4]oxazepine	195	C13H9NO	000257-07-8	87





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13828.D
Acq On : 14 Oct 2009 9:03 pm
Operator : sheilac
Sample : t39646-7
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylbenzene	3.554	62.1	ug/ml	5977560	1	4.704	3846900	40.0
p-Xylene	3.629	7.4	ug/ml	710849	1	4.704	3846900	40.0
Benzene, 1,2-di...	3.822	20.7	ug/ml	1993700	1	4.704	3846900	40.0
Benzofuran	4.597	46.5	ug/ml	4470690	1	4.704	3846900	40.0
Benzene, 1,2,3-...	4.763	11.8	ug/ml	1132290	1	4.704	3846900	40.0
Indane	4.870	355.2	ug/ml	34162600	1	4.704	3846900	40.0
Benzofuran, 7-m...	5.271	14.2	ug/ml	1368540	1	4.704	3846900	40.0
2-Propenal, 3-p...	5.325	12.4	ug/ml	1905670	2	5.908	6159810	40.0
Benzo[c]thiophene	5.988	35.2	ug/ml	5418030	2	5.908	6159810	40.0
1H-Indenol	6.106	17.0	ug/ml	2617670	2	5.908	6159810	40.0
1H-Inden-1-ol, ...	6.234	39.1	ug/ml	6018610	2	5.908	6159810	40.0
Benzo[b]thiophe...	6.464	72.8	ug/ml	11208500	2	5.908	6159810	40.0
1H-Inden-1-one,...	6.625	20.3	ug/ml	3125290	2	5.908	6159810	40.0
Benzoic acid, 2...	9.620	19.0	ug/ml	4002750	3	8.363	8442570	40.0
3,4-Dimethoxyto...	9.689	9.7	ug/ml	2039280	3	8.363	8442570	40.0
Acenaphthenone	10.042	17.4	ug/ml	2018520	4	11.144	4653890	40.0
1-Acenaphthenol	10.074	24.0	ug/ml	2788310	4	11.144	4653890	40.0
1-Naphthaleneca...	10.283	8.1	ug/ml	939668	4	11.144	4653890	40.0
3-Pentenoic aci...	10.320	10.4	ug/ml	1206110	4	11.144	4653890	40.0
Thianaphthene-2...	10.545	11.2	ug/ml	1296690	4	11.144	4653890	40.0
2-Dibenzofuranol	10.978	11.2	ug/ml	1297620	4	11.144	4653890	40.0
Dibenzofuranol	11.963	18.3	ug/ml	2129630	4	11.144	4653890	40.0
4H-Cyclopenta[d...	12.385	7.5	ug/ml	866355	4	11.144	4653890	40.0
2-Amino-as-tria...	14.664	8.5	ug/ml	550988	5	16.659	2585170	40.0
6(5H)-Phenanthr...	14.883	10.3	ug/ml	665798	5	16.659	2585170	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13851.D
Acq On : 15 Oct 2009 5:47 pm
Operator : sheilac
Sample : t39646-7,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 12:17:54 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

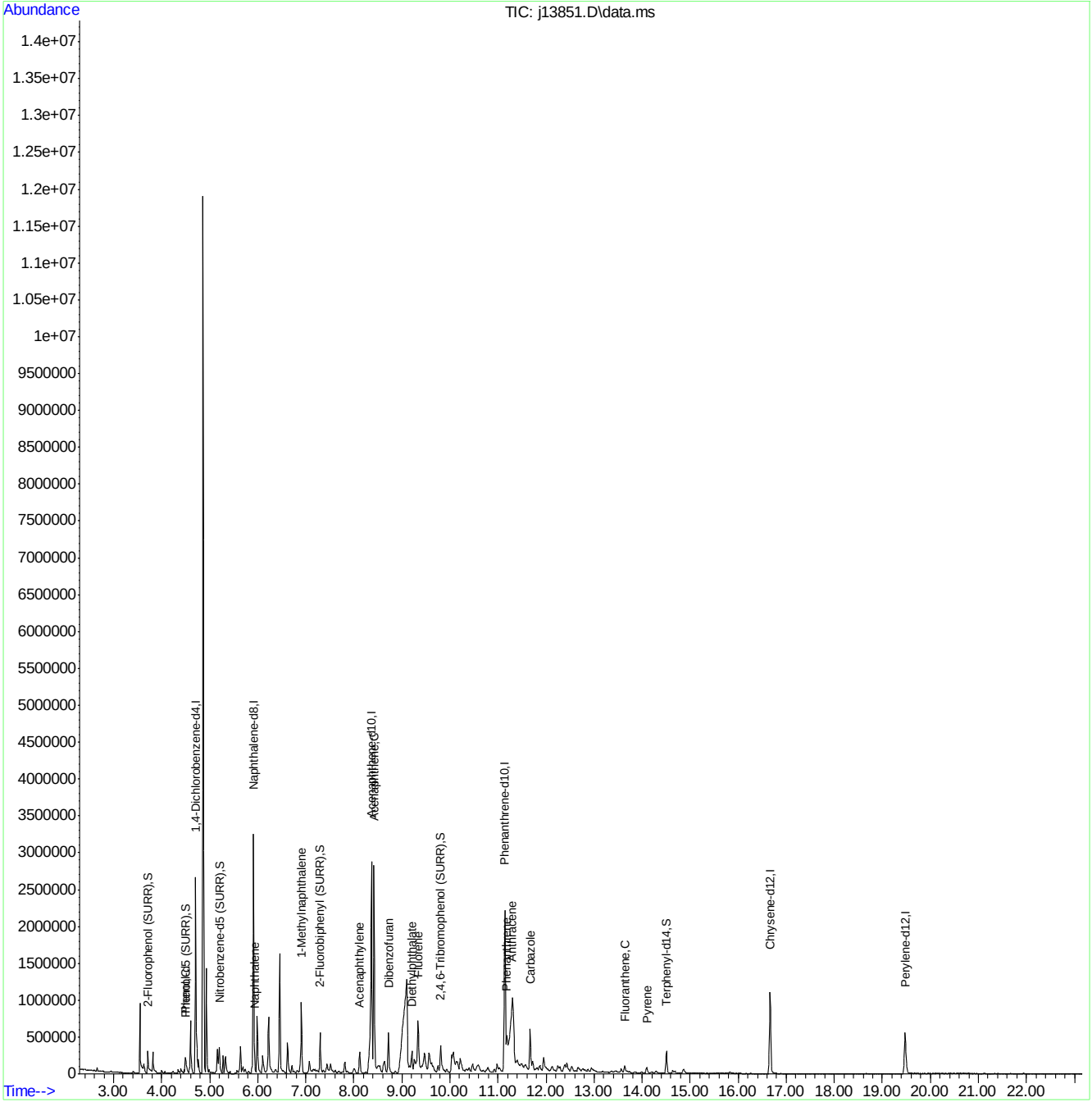
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	474488	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1684529	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.368	164	934800	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1272197	40.00	ug/ml	-0.06
71) Chrysene-d12	16.669	240	805485	40.00	ug/ml	-0.06
80) Perylene-d12	19.477	264	488637	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	136479	9.17	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery	=	9.17%#	
5) Phenol-d5 (SURR)	4.496	99	113995	6.13	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	6.13%#	
21) Nitrobenzene-d5 (SURR)	5.202	82	118535	6.71	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery	=	13.42%#	
40) 2-Fluorobiphenyl (SURR)	7.299	172	215363	5.91	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery	=	11.82%#	
62) 2,4,6-Tribromophenol (...	9.807	330	55653	13.00	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	13.00%#	
74) Terphenyl-d14	14.508	244	152286	7.92	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	15.84%	
Target Compounds						Qvalue
6) Phenol	4.507	94	25378	1.26	ug/ml#	23
30) Naphthalene	5.935	128	98419	2.15	ug/ml#	68
35) 1-Methylnaphthalene	6.908	142	326031	11.11	ug/ml	98
44) Acenaphthylene	8.122	152	175158	3.96	ug/ml	99
47) Acenaphthene	8.422	154	918706	35.32	ug/ml	100
50) Dibenzofuran	8.721	168	306973	8.26	ug/ml	99
53) Diethylphthalate	9.208	149	125852	3.86	ug/ml#	88
54) Fluorene	9.342	166	280739	8.67	ug/ml	98
66) Phenanthrene	11.187	178	179030	4.72	ug/ml	92
67) Anthracene	11.289	178	52751	1.45	ug/ml#	1
68) Carbazole	11.674	167	393020	13.38	ug/ml	99
70) Fluoranthene	13.642	202	68288	1.99	ug/ml#	63
73) Pyrene	14.097	202	50402	1.78	ug/ml#	58

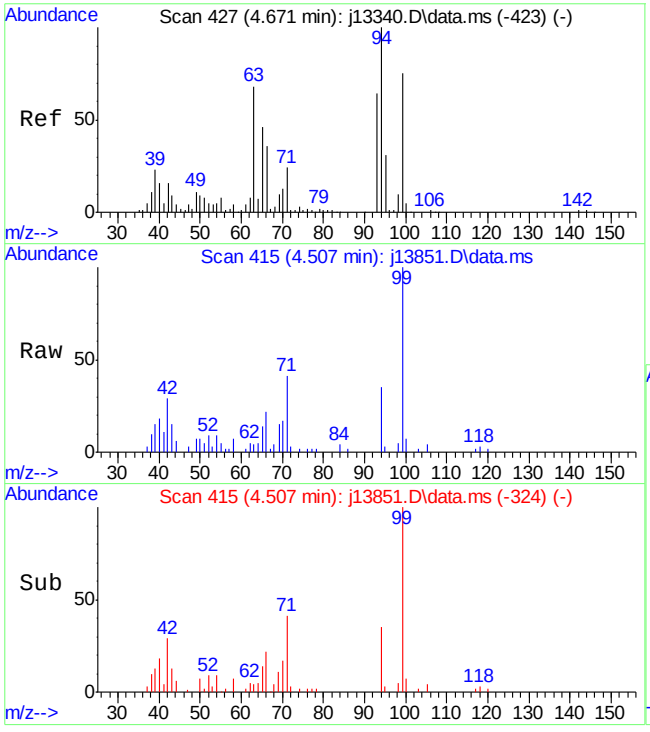
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13851.D
Acq On : 15 Oct 2009 5:47 pm
Operator : sheilac
Sample : t39646-7,4x
Misc : op13250,Ej635,1000,,,1,4,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 12:17:54 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

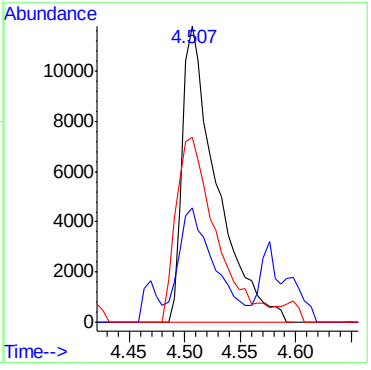


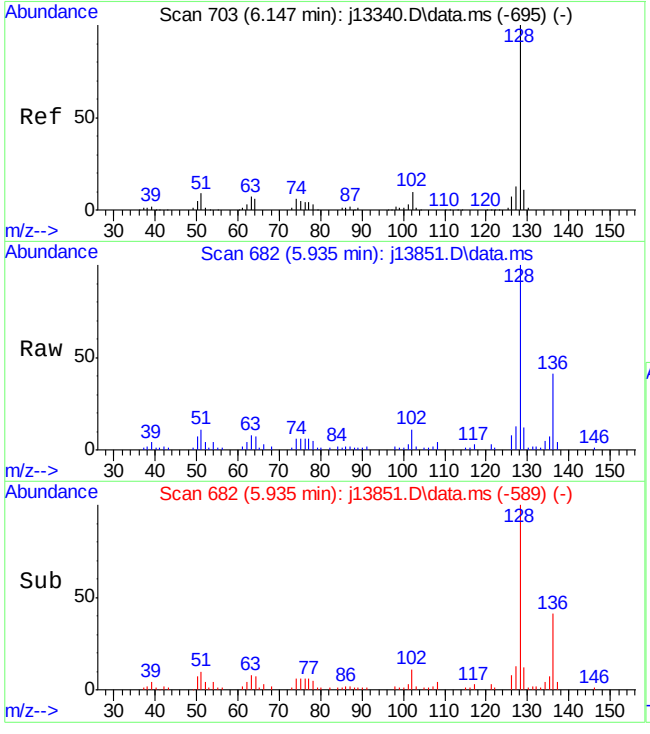


#6
Phenol
Concen: 1.26 ug/ml
RT: 4.507 min Scan# 415
Delta R.T. -0.012 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion: 94 Resp: 25378

Ion	Ratio	Lower	Upper
94	100		
65	0.0	35.3	75.3#
66	0.0	37.4	77.4#

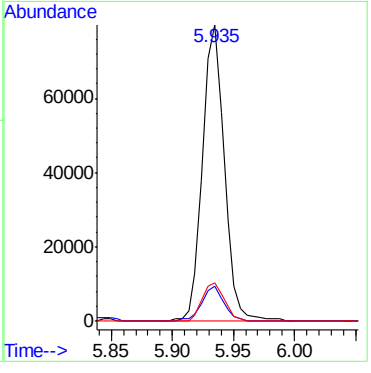


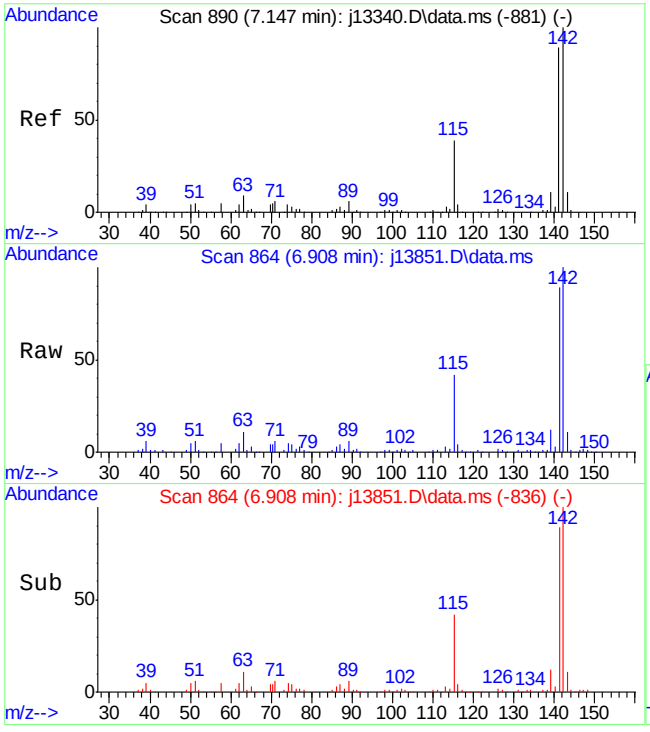


#30
Naphthalene
Concen: 2.15 ug/ml
RT: 5.935 min Scan# 682
Delta R.T. -0.000 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:128 Resp: 98419

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	31.2
127	0.0	0.0	33.8

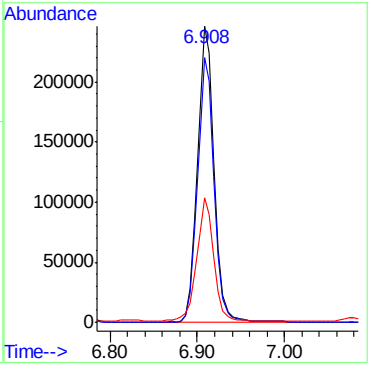


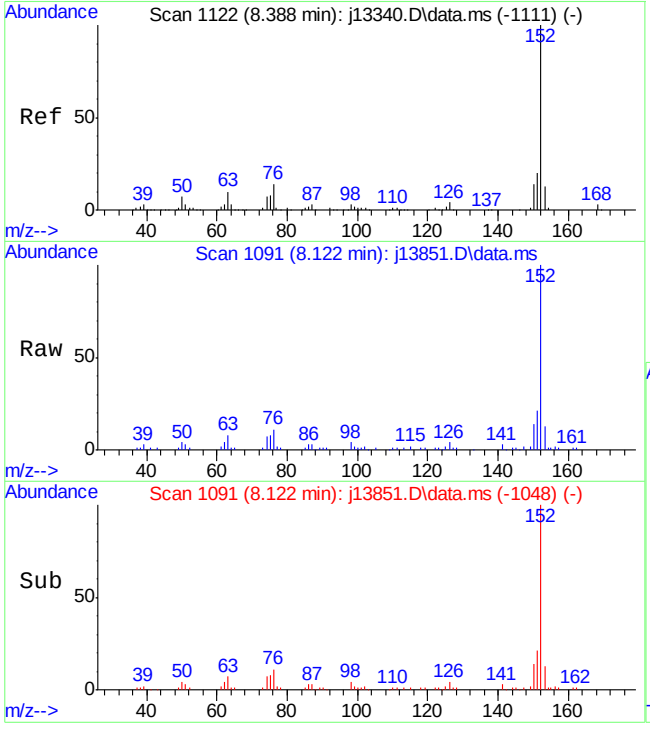


#35
1-Methylnaphthalene
Concen: 11.11 ug/ml
RT: 6.908 min Scan# 864
Delta R.T. -0.048 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:142 Resp: 326031

Ion	Ratio	Lower	Upper
142	100		
141	89.0	69.4	109.4
115	42.2	18.9	58.9

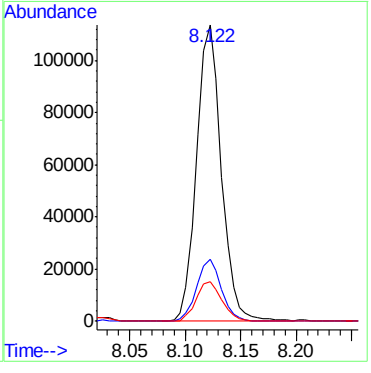


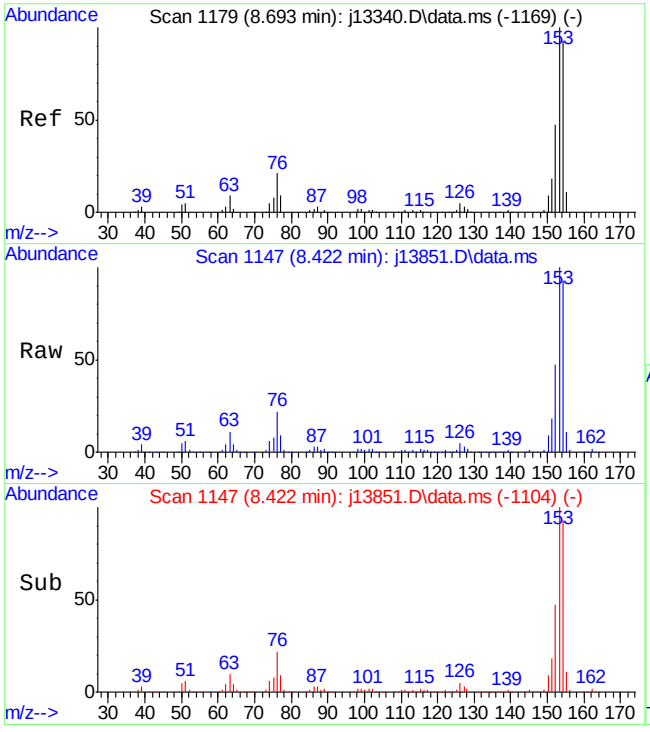


#44
Acenaphthylene
Concen: 3.96 ug/ml
RT: 8.122 min Scan# 1091
Delta R.T. -0.271 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:152 Resp: 175158

Ion	Ratio	Lower	Upper
152	100		
151	20.6	0.2	40.2
153	13.7	0.0	33.0

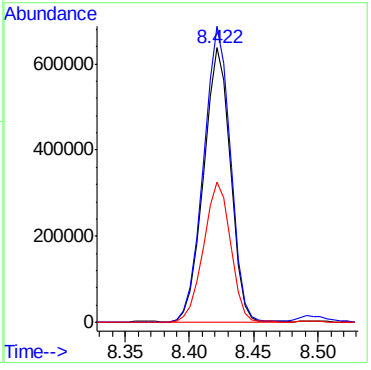


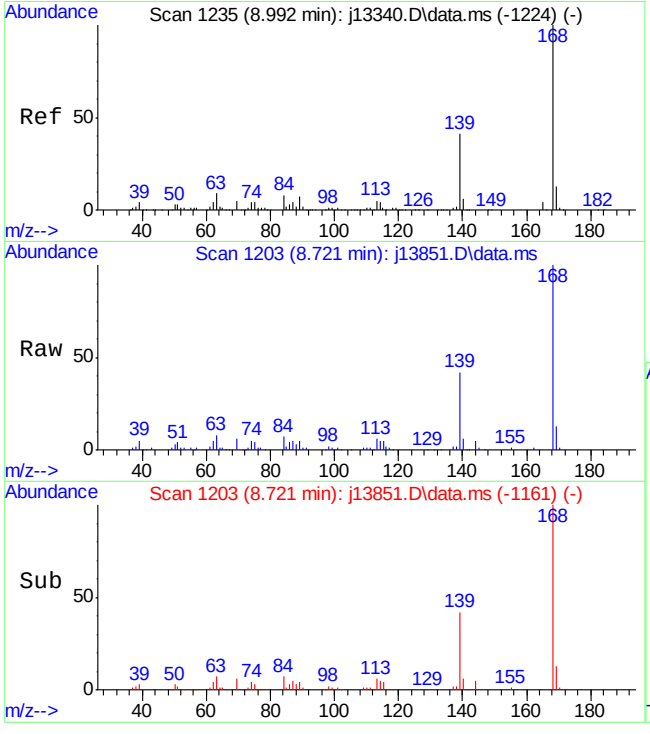


#47
Acenaphthene
Concen: 35.32 ug/ml
RT: 8.422 min Scan# 1147
Delta R.T. -0.271 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:154 Resp: 918706

Ion	Ratio	Lower	Upper
154	100		
153	108.5	87.9	127.9
152	51.3	31.3	71.3

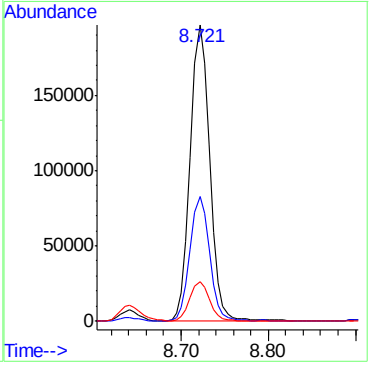


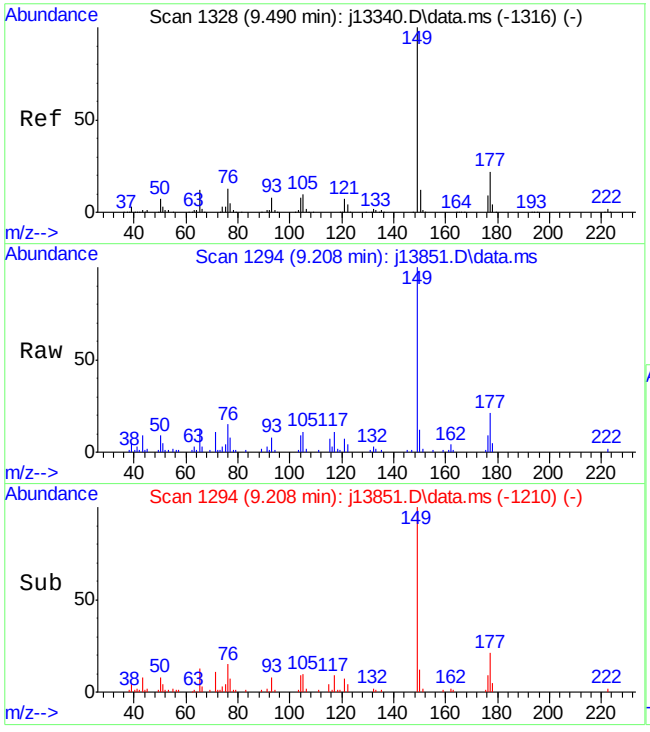


#50
Dibenzofuran
Concen: 8.26 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:168 Resp: 306973

Ion	Ratio	Lower	Upper
168	100		
139	42.2	21.2	61.2
169	13.3	0.0	33.2

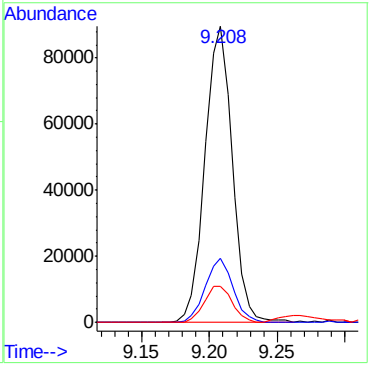


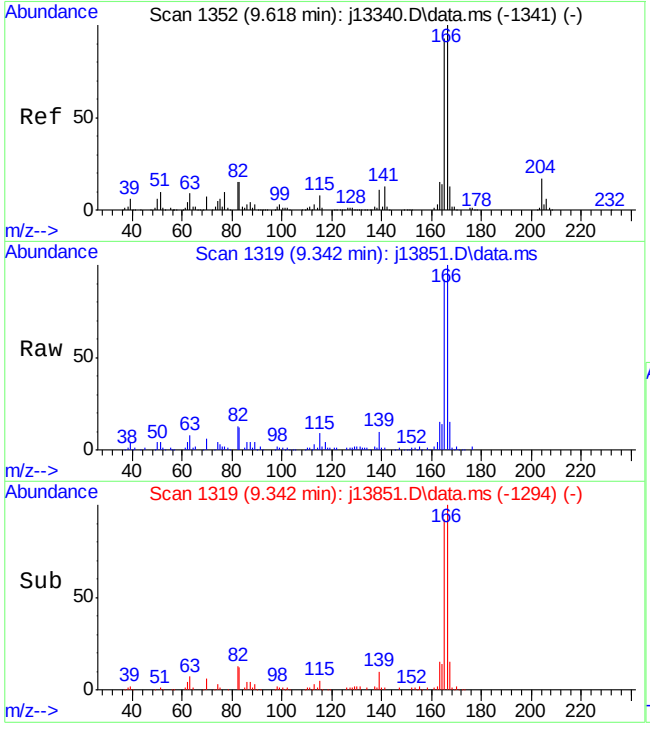


#53
Diethylphthalate
Concen: 3.86 ug/ml
RT: 9.208 min Scan# 1294
Delta R.T. -0.048 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:149 Resp: 125852

Ion	Ratio	Lower	Upper
149	100		
177	21.7	2.2	42.2
150	0.0	0.0	32.2

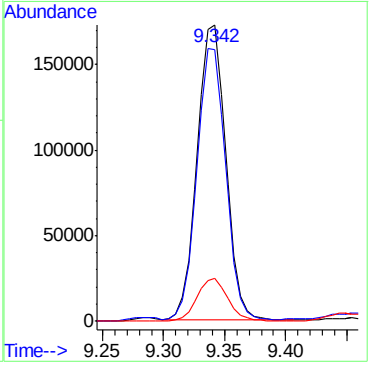


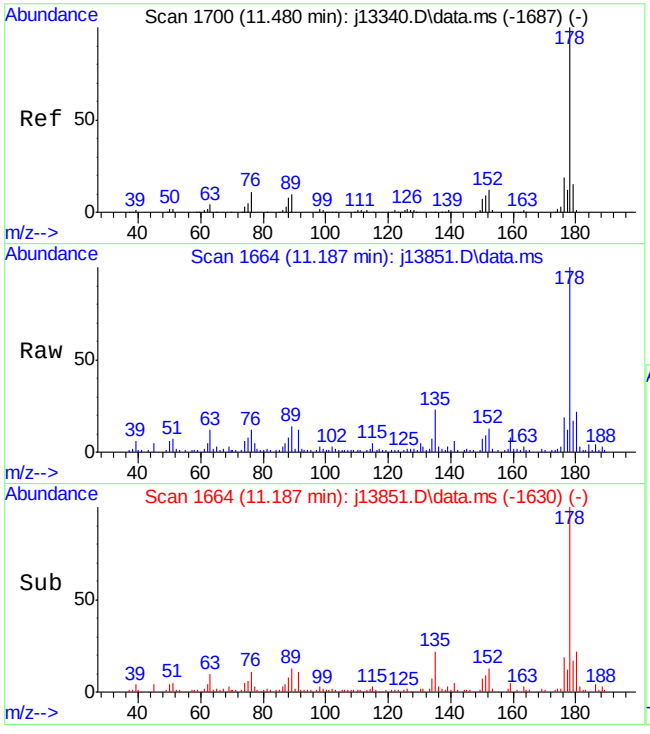


#54
Fluorene
Concen: 8.67 ug/ml
RT: 9.342 min Scan# 1319
Delta R.T. -0.064 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:166 Resp: 280739

Ion	Ratio	Lower	Upper
166	100		
165	91.9	73.8	113.8
167	15.4	0.0	33.3

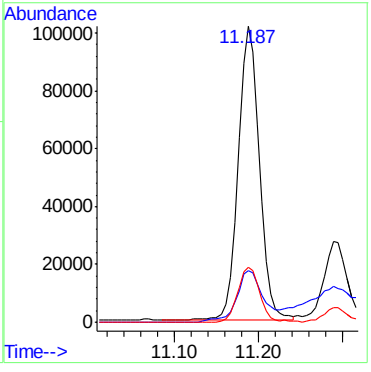


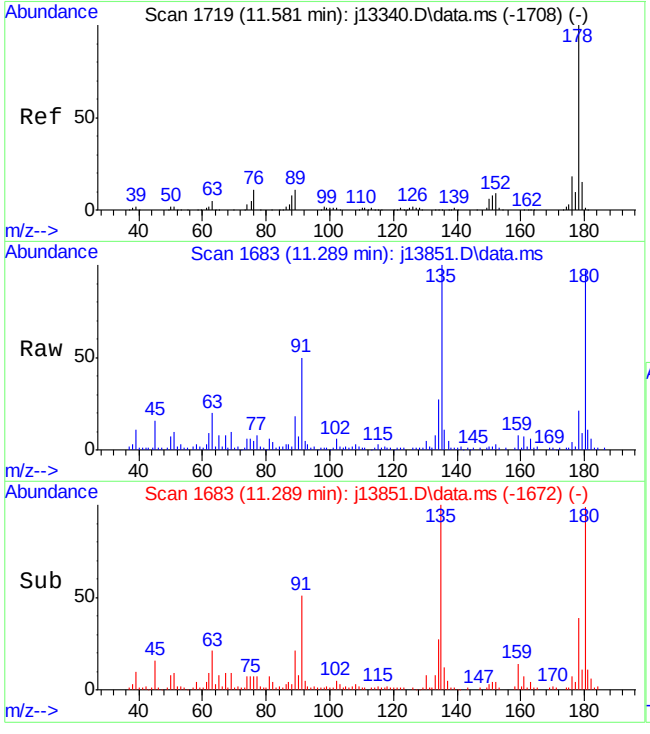


#66
Phenanthrene
Concen: 4.72 ug/ml
RT: 11.187 min Scan# 1664
Delta R.T. -0.016 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:178 Resp: 179030

Ion	Ratio	Lower	Upper
178	100		
179	22.2	0.0	35.2
176	19.7	0.0	39.3

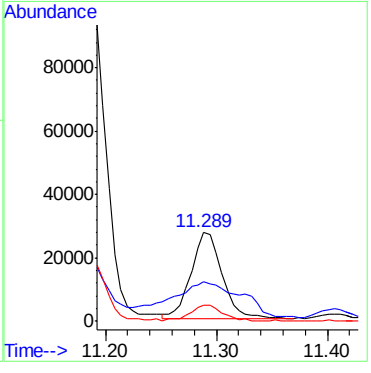




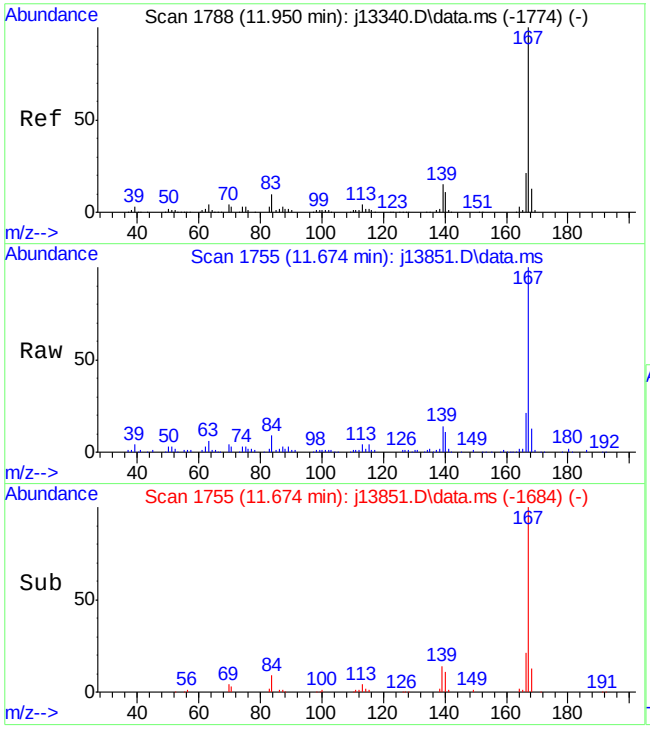
#67
Anthracene
Concen: 1.45 ug/ml
RT: 11.289 min Scan# 1683
Delta R.T. -0.140 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:178 Resp: 52751

Ion	Ratio	Lower	Upper
178	100		
179	85.4	0.0	35.1#
176	0.0	0.0	38.3



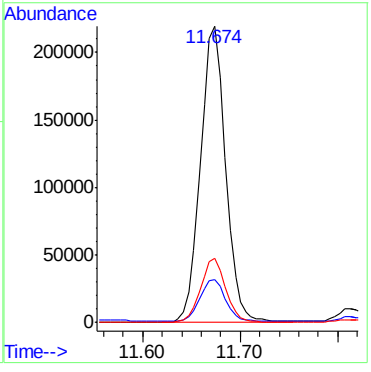
8.1.22
8

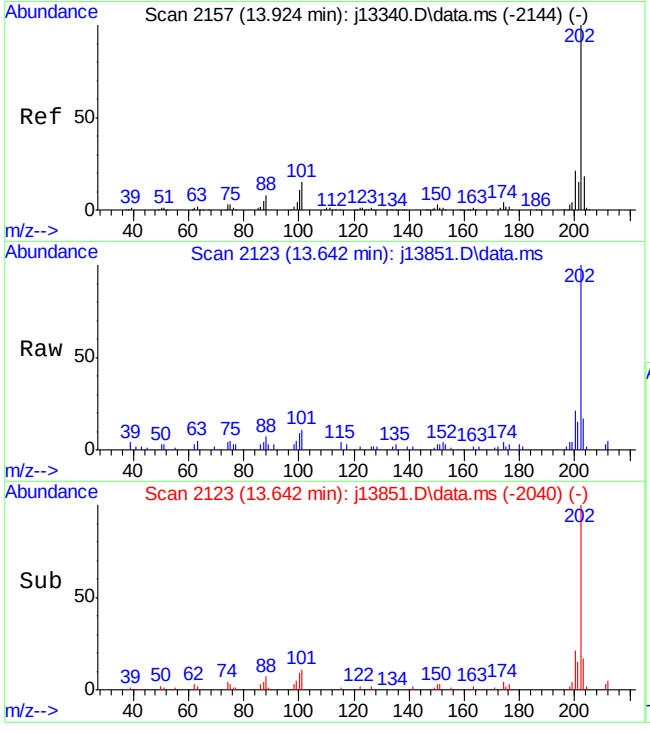


#68
Carbazole
Concen: 13.38 ug/ml
RT: 11.674 min Scan# 1755
Delta R.T. -0.120 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:167 Resp: 393020

Ion	Ratio	Lower	Upper
167	100		
139	14.6	0.0	34.1
166	21.3	0.9	40.9

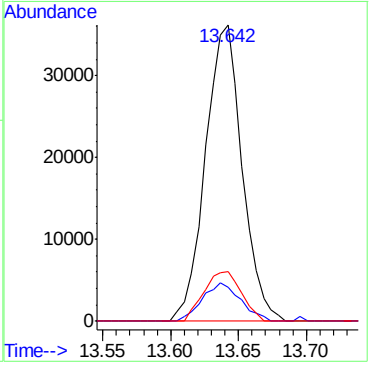


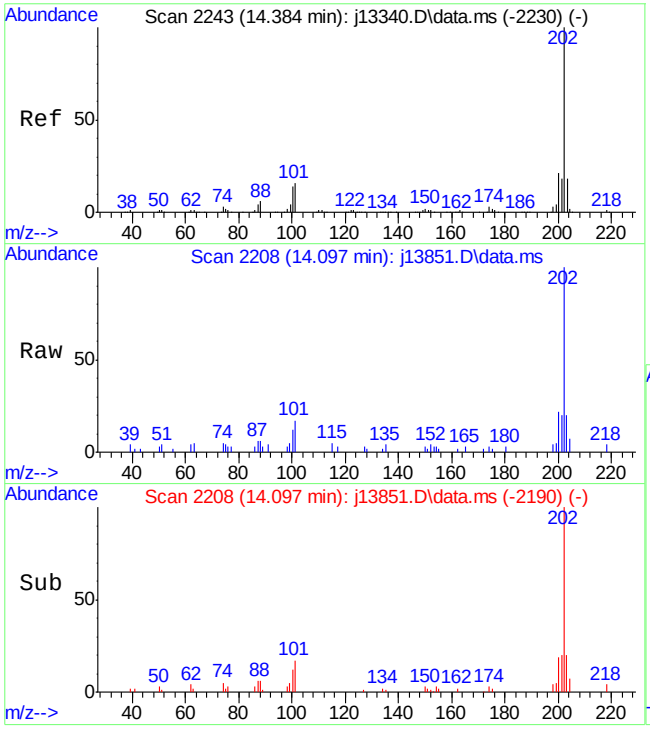


#70
Fluoranthene
Concen: 1.99 ug/ml
RT: 13.642 min Scan# 2123
Delta R.T. -0.059 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:202 Resp: 68288

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	33.9
203	0.0	0.0	37.3

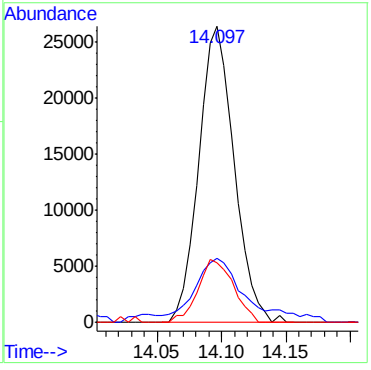




#73
Pyrene
Concen: 1.78 ug/ml
RT: 14.097 min Scan# 2208
Delta R.T. -0.104 min
Lab File: j13851.D
Acq: 15 Oct 2009 5:47 pm

Tgt Ion:202 Resp: 50402

Ion	Ratio	Lower	Upper
202	100		
200	0.0	0.5	40.5#
203	0.0	0.0	37.8



8.1.22

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On : 14 Oct 2009 6:37 pm
Operator : sheilac
Sample : t39646-8
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 15 18:12:45 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

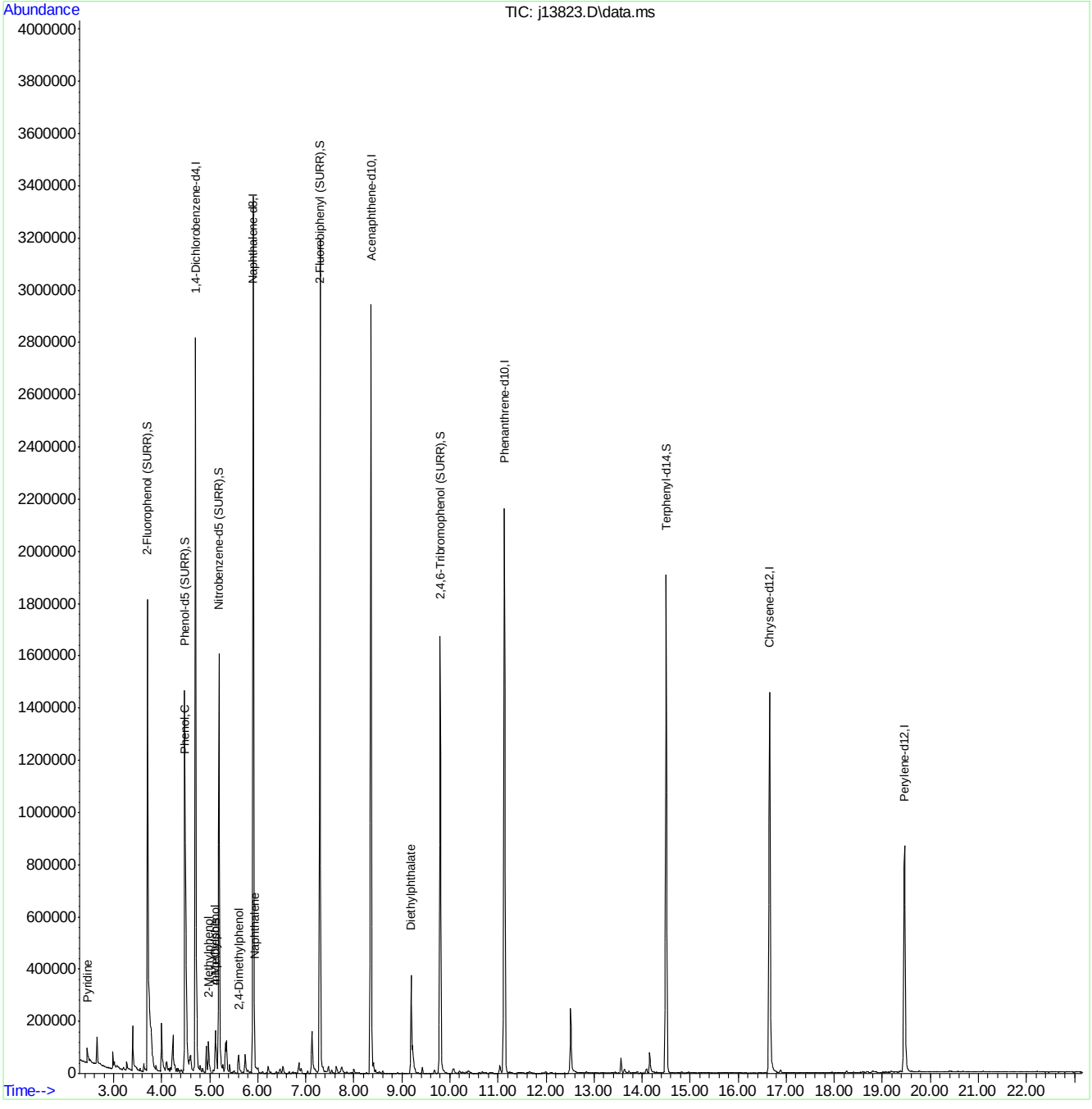
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	484380	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.902	136	1736816	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.358	164	960369	40.00	ug/ml	-0.06
57) Phenanthrene-d10	11.133	188	1344556	40.00	ug/ml	-0.07
71) Chrysene-d12	16.653	240	1043674	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	680836	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.704	112	690657	45.44	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 45.44%			
5) Phenol-d5 (SURR)	4.480	99	613179	32.28	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 32.28%			
21) Nitrobenzene-d5 (SURR)	5.191	82	636430	34.94	ug/ml	-0.11
Spiked Amount 50.000	Range 29 - 115		Recovery = 69.88%			
40) 2-Fluorobiphenyl (SURR)	7.298	172	1190532	31.82	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 63.64%			
62) 2,4,6-Tribromophenol (...	9.802	330	297529	65.77	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 65.77%			
74) Terphenyl-d14	14.503	244	965722	38.75	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 77.50%			
Target Compounds						Qvalue
3) Pyridine	2.453	79	35981	2.50	ug/ml	81
6) Phenol	4.490	94	222021	10.80	ug/ml	84
14) 2-Methylphenol	4.977	108	30991	2.15	ug/ml	99
16) 4-Methylphenol	5.116	108	63431	4.16	ug/ml#	68
17) m+p-Cresols	5.116	108	63431	4.16	ug/ml#	68
25) 2,4-Dimethylphenol	5.603	122	26261	1.93	ug/ml	93
30) Naphthalene	5.929	128	102365	2.16	ug/ml	99
53) Diethylphthalate	9.197	149	180488	5.39	ug/ml	98

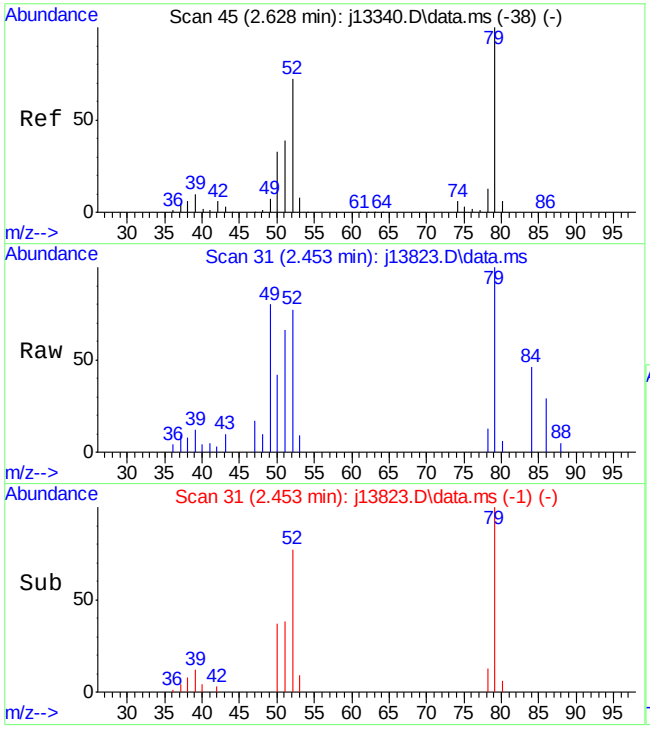
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On : 14 Oct 2009 6:37 pm
Operator : sheilac
Sample : t39646-8
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 15 18:12:45 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

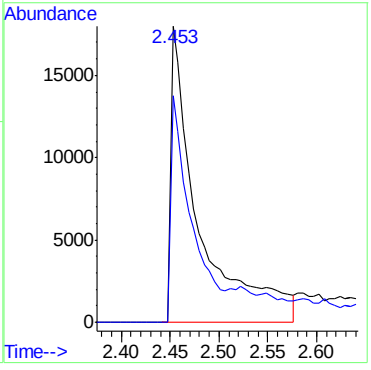


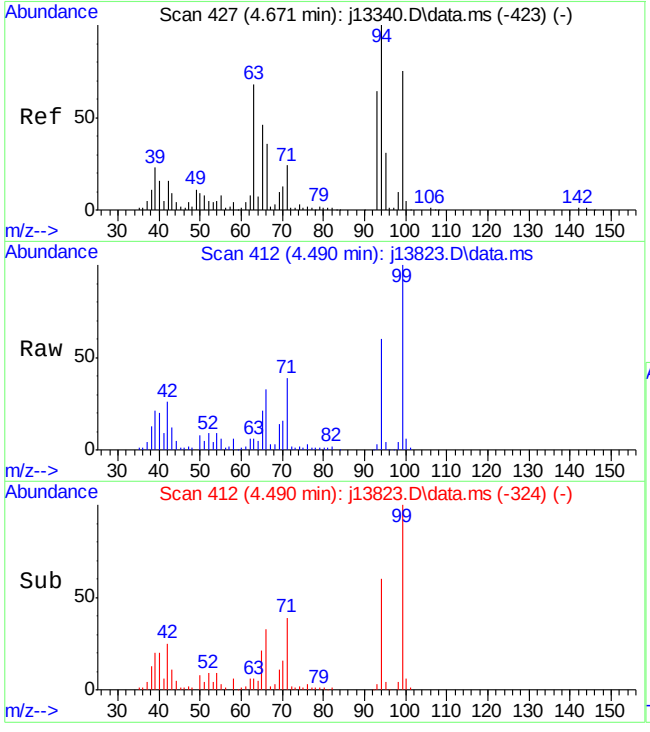


#3
Pyridine
Concen: 2.50 ug/ml
RT: 2.453 min Scan# 31
Delta R.T. 0.021 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion: 79 Resp: 35981

Ion	Ratio	Lower	Upper
79	100		
52	56.7	52.6	92.6

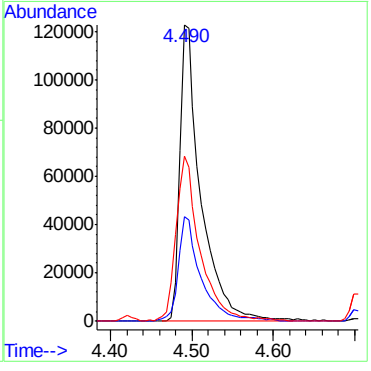


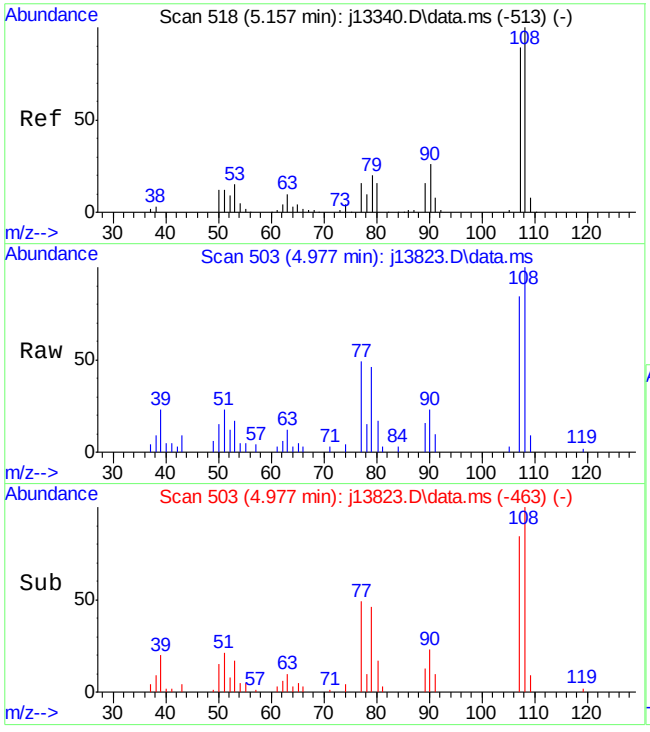


#6
Phenol
Concen: 10.80 ug/ml
RT: 4.490 min Scan# 412
Delta R.T. -0.028 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion: 94 Resp: 222021

Ion	Ratio	Lower	Upper
94	100		
65	38.0	35.3	75.3
66	63.5	37.4	77.4

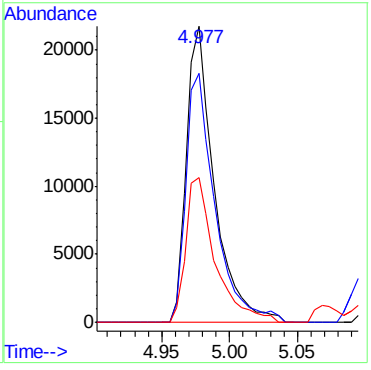


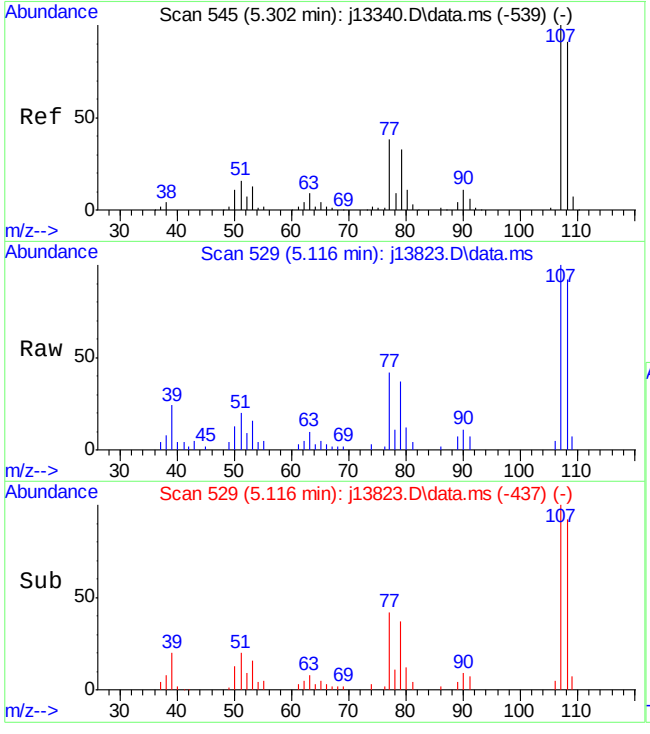


#14
2-Methylphenol
Concen: 2.15 ug/ml
RT: 4.977 min Scan# 503
Delta R.T. 0.016 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:108 Resp: 30991

Ion	Ratio	Lower	Upper
108	100		
107	87.9	68.3	108.3
77	51.5	30.8	70.8

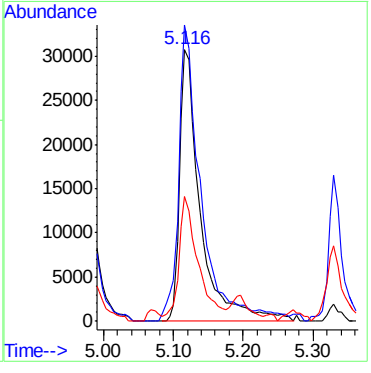




#16
4-Methylphenol
Concen: 4.16 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.005 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:108 Resp: 63431

Ion	Ratio	Lower	Upper
108	100		
107	113.6	139.5	179.5#
77	38.5	36.8	76.8



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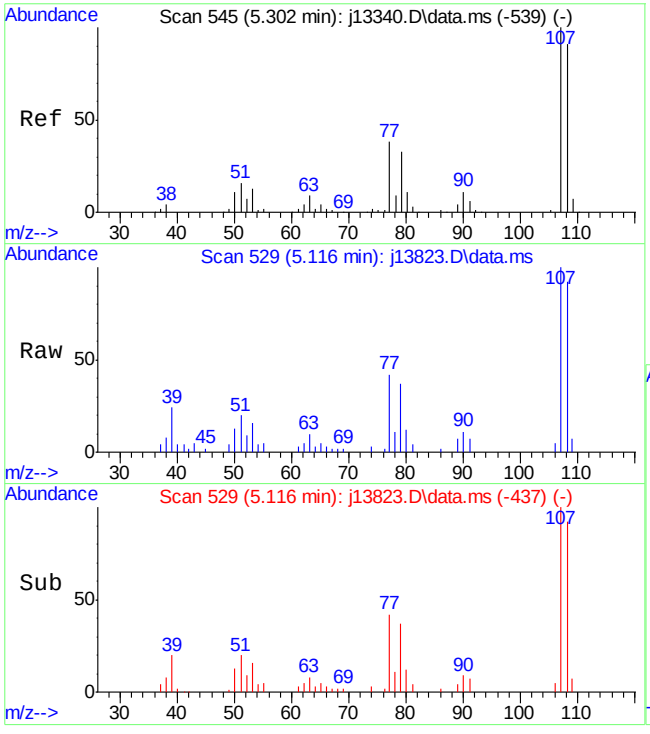
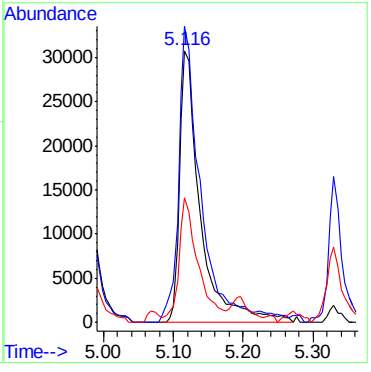
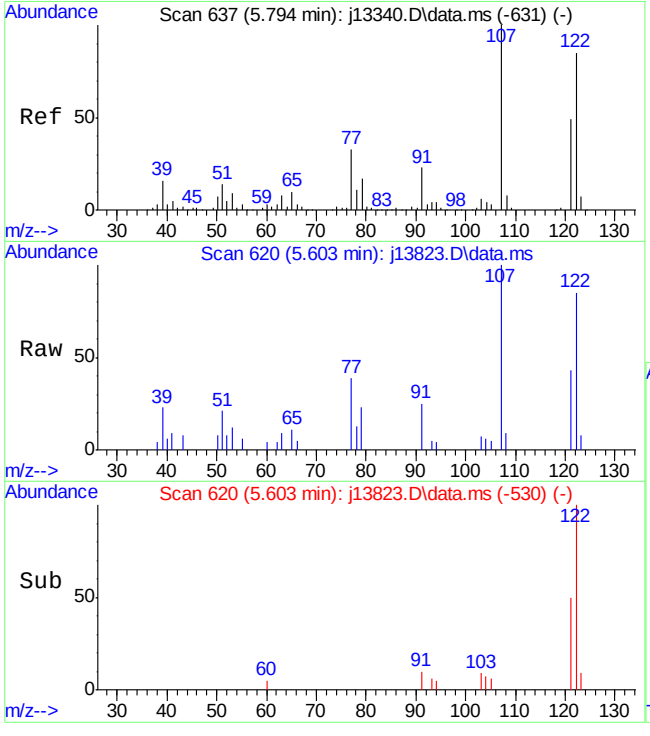


#17
m+p-Cresols
Concen: 4.16 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.005 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:108 Resp: 63431

Ion	Ratio	Lower	Upper
108	100		
107	113.6	139.5	179.5#
77	38.5	36.8	76.8

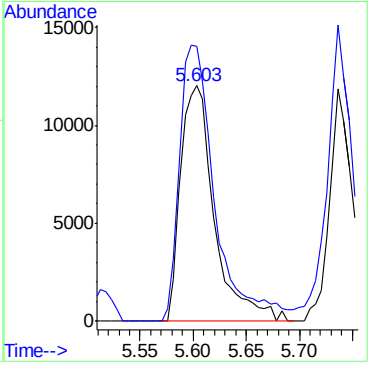


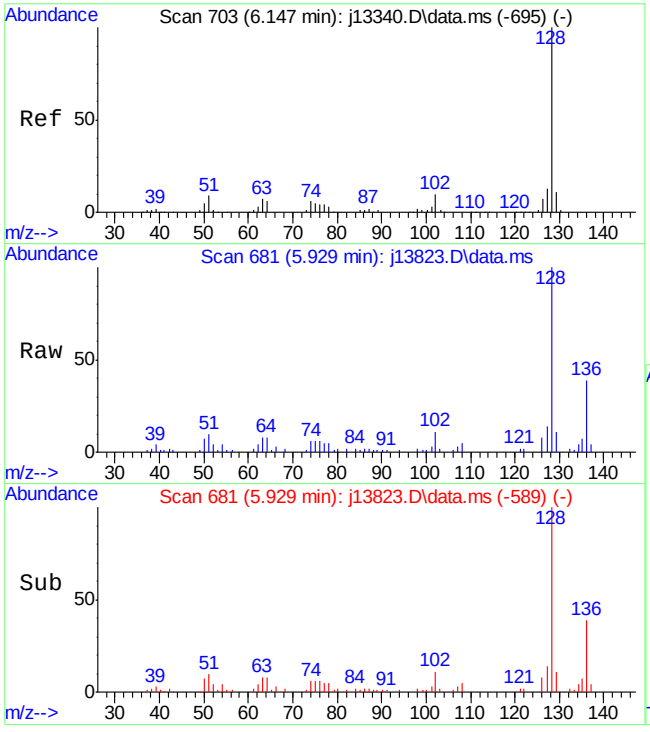


#25
2,4-Dimethylphenol
Concen: 1.93 ug/ml
RT: 5.603 min Scan# 620
Delta R.T. -0.016 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:122 Resp: 26261

Ion	Ratio	Lower	Upper
122	100		
107	124.1	96.3	136.3

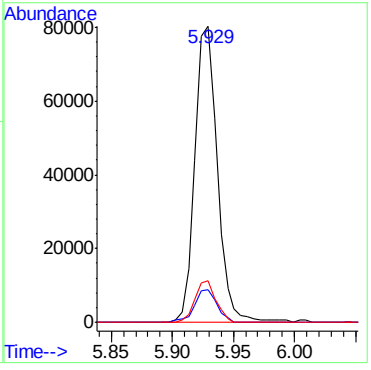


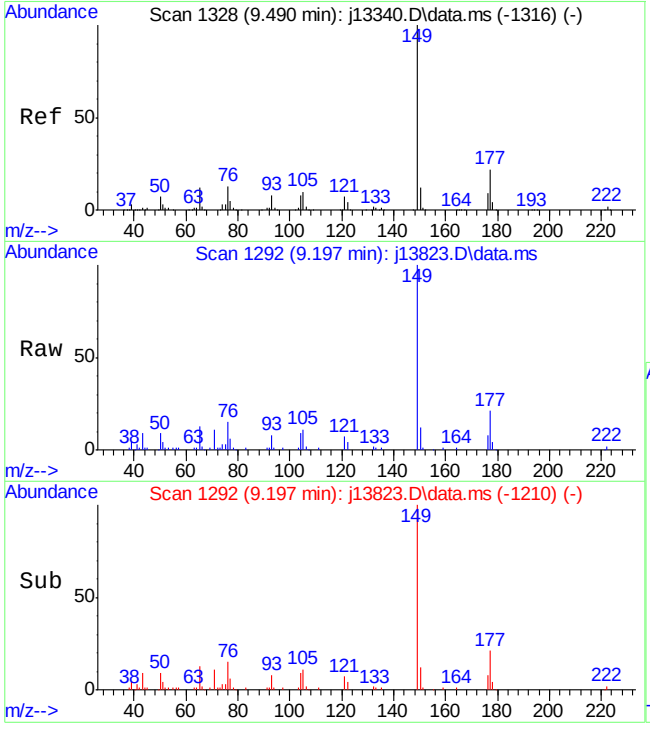


#30
Naphthalene
Concen: 2.16 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:128 Resp: 102365

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	31.2
127	13.1	0.0	33.8

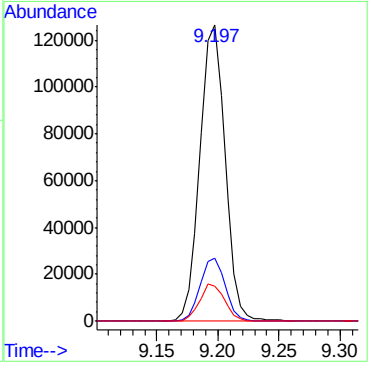




#53
Diethylphthalate
Concen: 5.39 ug/ml
RT: 9.197 min Scan# 1292
Delta R.T. -0.059 min
Lab File: j13823.D
Acq: 14 Oct 2009 6:37 pm

Tgt Ion:149 Resp: 180488

Ion	Ratio	Lower	Upper
149	100		
177	20.9	2.2	42.2
150	12.3	0.0	32.2



8.1.23

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On : 14 Oct 2009 6:37 pm
Operator : sheilac
Sample : t39646-8
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13823.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.453	29	31	39	rBV	57488	77937	1.80%	0.184%
2	2.656	65	69	76	rBV	101616	108645	2.51%	0.256%
3	2.987	128	131	134	rBV	65133	60203	1.39%	0.142%
4	3.394	205	207	227	rBV	170463	244203	5.65%	0.576%
5	3.704	262	265	285	rBV	1803196	2747264	63.52%	6.480%
6	3.998	317	320	334	rBV2	182578	232906	5.39%	0.549%
7	4.105	334	340	344	rBV2	34585	58447	1.35%	0.138%
8	4.218	358	361	362	rBV	74824	63348	1.46%	0.149%
9	4.234	362	364	369	rVB	122593	113144	2.62%	0.267%
10	4.480	407	410	425	rBV2	1442287	2546292	58.88%	6.006%
11	4.597	429	432	443	rVB3	61899	117222	2.71%	0.276%
12	4.704	448	452	468	rVB	2804888	3273347	75.69%	7.721%
13	4.924	489	493	499	rBV	100773	135685	3.14%	0.320%
14	4.977	499	503	516	rVB	121369	186563	4.31%	0.440%
15	5.116	523	529	539	rBV	156305	284308	6.57%	0.671%
16	5.191	539	543	556	rVV	1591746	1986447	45.93%	4.686%
17	5.330	564	569	571	rBV	113635	141673	3.28%	0.334%
18	5.352	571	573	582	rVB	119176	125871	2.91%	0.297%
19	5.603	615	620	627	rBV3	69690	141127	3.26%	0.333%
20	5.737	638	645	653	rBV	70320	113498	2.62%	0.268%
21	5.902	671	676	686	rBV	3357335	4294700	99.31%	10.130%
22	6.855	849	854	858	rBV	40235	55928	1.29%	0.132%
23	7.127	899	905	927	rBV	160734	327929	7.58%	0.773%
24	7.298	927	937	947	rBV	3192248	4204432	97.22%	9.917%
25	7.470	964	969	977	rVB2	28067	50067	1.16%	0.118%
26	7.635	996	1000	1011	rBV4	26803	52196	1.21%	0.123%
27	8.358	1127	1135	1141	rBV	2945130	4324734	100.00%	10.201%
28	8.406	1141	1144	1149	rVB	37510	55176	1.28%	0.130%
29	9.197	1285	1292	1295	rBV	378035	536652	12.41%	1.266%
30	9.224	1295	1297	1305	rVB	94393	154264	3.57%	0.364%
31	9.796	1397	1404	1426	rVB	1672769	2815620	65.11%	6.641%
32	11.043	1630	1637	1645	rBV2	30002	61585	1.42%	0.145%
33	11.133	1645	1654	1669	rVB2	2163661	3805449	87.99%	8.976%
34	12.513	1900	1912	1926	rBV2	250157	452933	10.47%	1.068%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On    : 14 Oct 2009   6:37 pm
Operator  : sheilac
Sample    : t39646-8
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 6000 Area counts
Start Thrs: 0.2                           Max Peaks: 100
Stop Thrs : 0                         Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
```

35	13.562	2102	2108	2115	rBV	58682	98100	2.27%	0.231%
36	14.161	2214	2220	2230	rBV	79838	137656	3.18%	0.325%
37	14.503	2271	2284	2296	rBV2	1907986	3340255	77.24%	7.879%
38	16.653	2674	2686	2712	rBV	1460867	2994542	69.24%	7.063%
39	19.461	3202	3211	3226	rBV	865796	1875129	43.36%	4.423%

Sum of corrected areas: 42395477

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On    : 14 Oct 2009   6:37 pm
Operator  : sheilac
Sample    : t39646-8
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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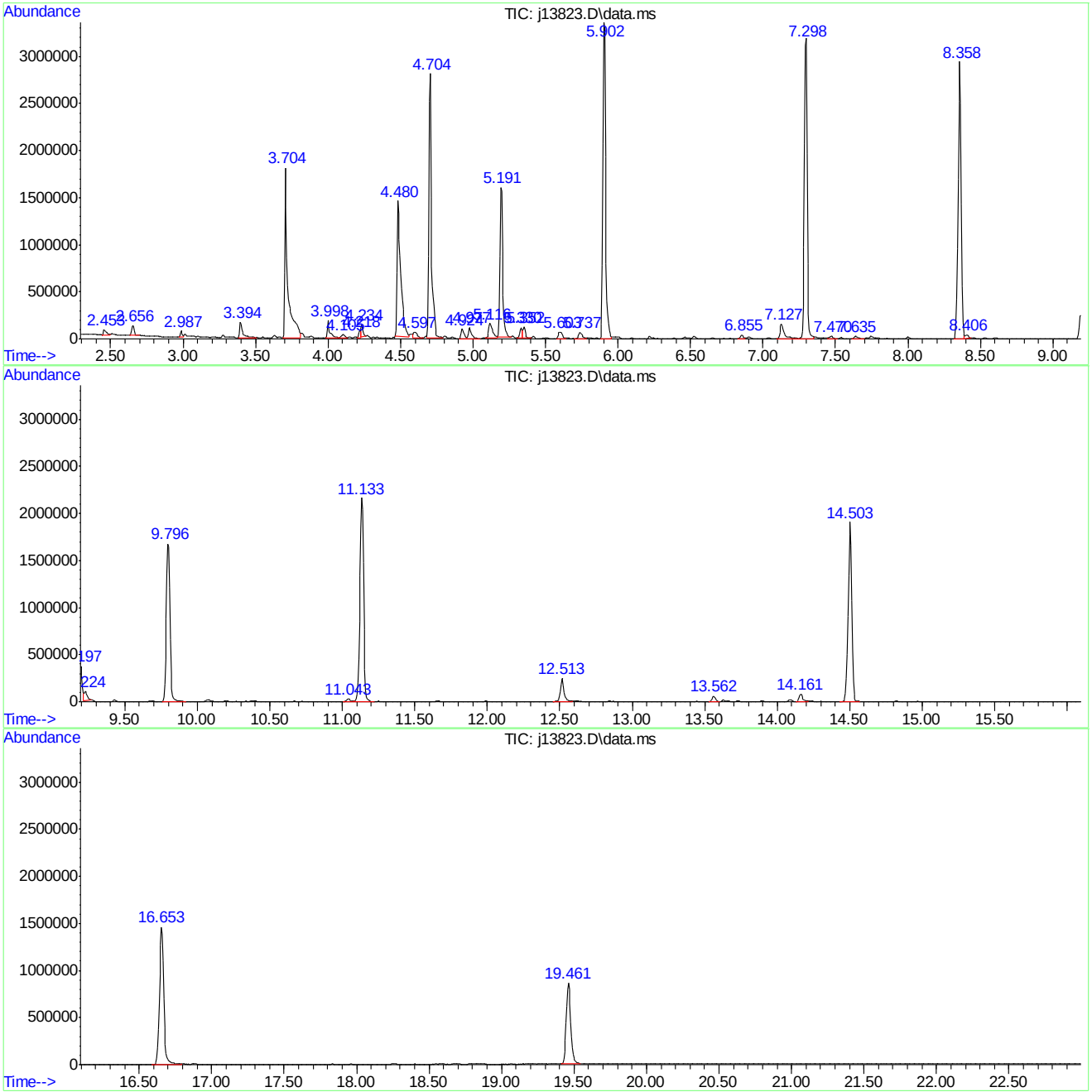


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13823.D
Acq On : 14 Oct 2009 6:37 pm
Operator : sheilac
Sample : t39646-8
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

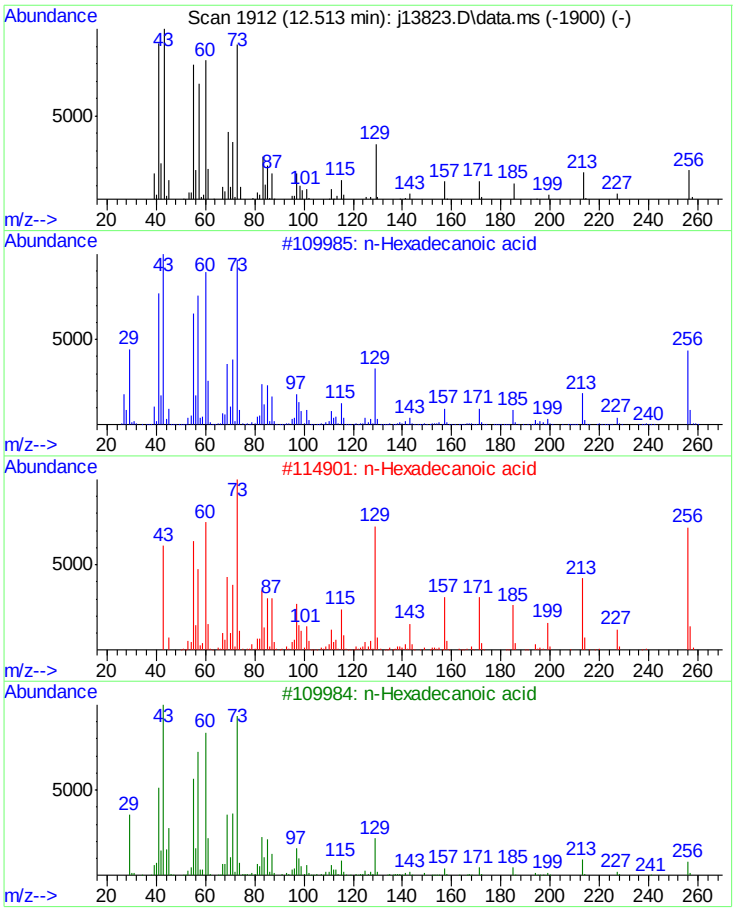
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

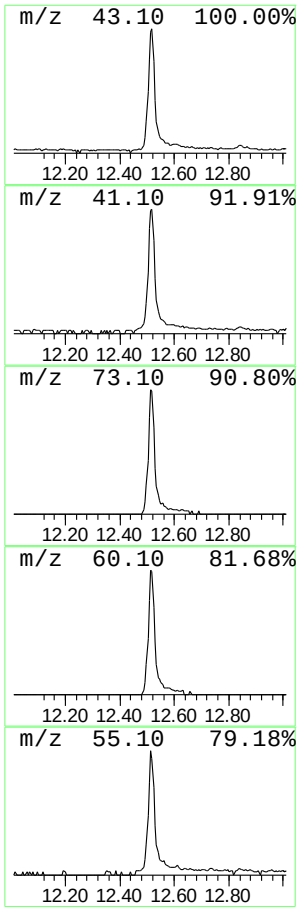
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.513	4.76 ug/ml	452933	Phenanthrene-d10	11.134

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
5	Tridecanoic acid	214	C13H26O2	000638-53-9	81





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\ej634\
  Data File : j13823.D
  Acq On    : 14 Oct 2009   6:37 pm
  Operator  : sheilac
  Sample    : t39646-8
  Misc      : op13250,Ej634,1000,,,1,1,water
  ALS Vial  : 14   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\ej615mg.m
  Quant Title  :

  TIC Library   : C:\Database\NIST98.L
  TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic ...	12.513	4.8	ug/ml	452933	4	11.134	3805450	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 16 14:47:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

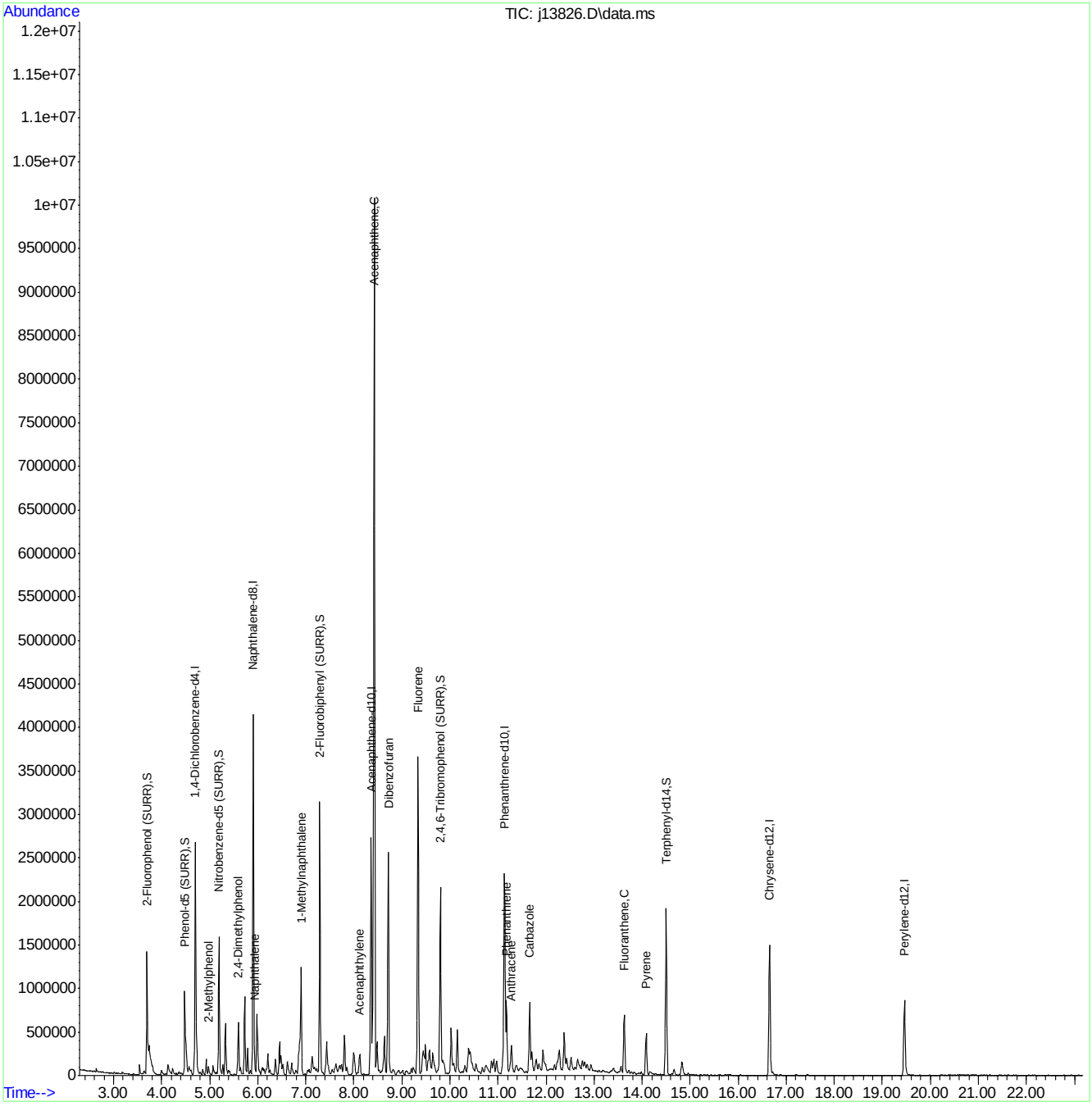
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	491349	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.902	136	1825281	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1000488	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1429359	40.00	ug/ml	-0.06
71) Chrysene-d12	16.653	240	1065755	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	689463	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.693	112	598883	38.84	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 38.84%			
5) Phenol-d5 (SURR)	4.480	99	524612	27.22	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 27.22%			
21) Nitrobenzene-d5 (SURR)	5.191	82	570401	29.80	ug/ml	-0.11
Spiked Amount 50.000	Range 29 - 115		Recovery = 59.60%			
40) 2-Fluorobiphenyl (SURR)	7.293	172	1098277	28.18	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery = 56.36%			
62) 2,4,6-Tribromophenol (...	9.802	330	319443	66.42	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 66.42%			
74) Terphenyl-d14	14.503	244	968549	38.06	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 76.12%			
Target Compounds						Qvalue
14) 2-Methylphenol	4.972	108	23389	1.60	ug/ml	94
25) 2,4-Dimethylphenol	5.598	122	147927	10.35	ug/ml	100
30) Naphthalene	5.929	128	122512	2.46	ug/ml	98
35) 1-Methylnaphthalene	6.903	142	407522	12.81	ug/ml	95
44) Acenaphthylene	8.111	152	71454	1.51	ug/ml	90
47) Acenaphthene	8.432	154	3930607	141.20	ug/ml	99
50) Dibenzofuran	8.721	168	1505290	37.85	ug/ml	98
54) Fluorene	9.336	166	1588848	45.85	ug/ml	98
66) Phenanthrene	11.182	178	491021	11.53	ug/ml	97
67) Anthracene	11.278	178	197052	4.81	ug/ml	88
68) Carbazole	11.658	167	570578	17.28	ug/ml	99
70) Fluoranthene	13.626	202	493429	12.78	ug/ml	99
73) Pyrene	14.086	202	322194	8.58	ug/ml	93

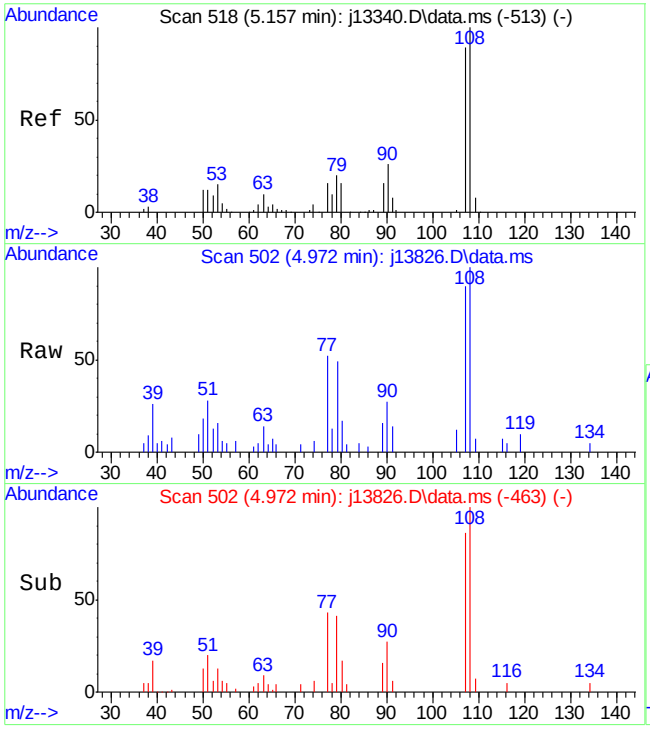
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 16 14:47:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

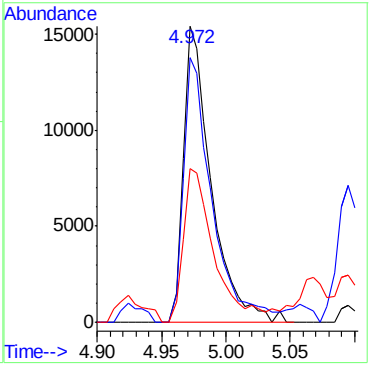


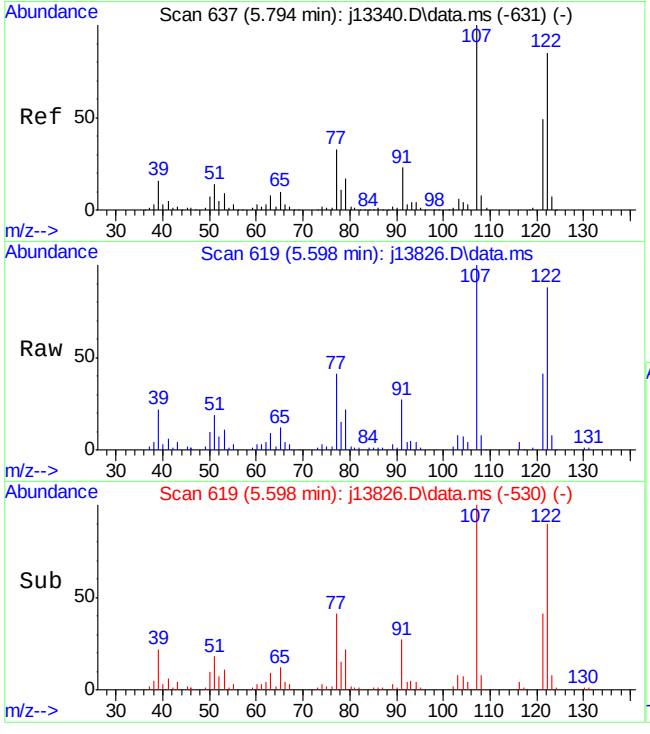


#14
2-Methylphenol
Concen: 1.60 ug/ml
RT: 4.972 min Scan# 502
Delta R.T. 0.011 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:108 Resp: 23389

Ion	Ratio	Lower	Upper
108	100		
107	92.2	68.3	108.3
77	57.4	30.8	70.8

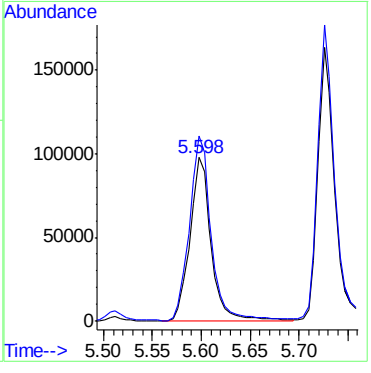




#25
2,4-Dimethylphenol
Concen: 10.35 ug/ml
RT: 5.598 min Scan# 619
Delta R.T. -0.021 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

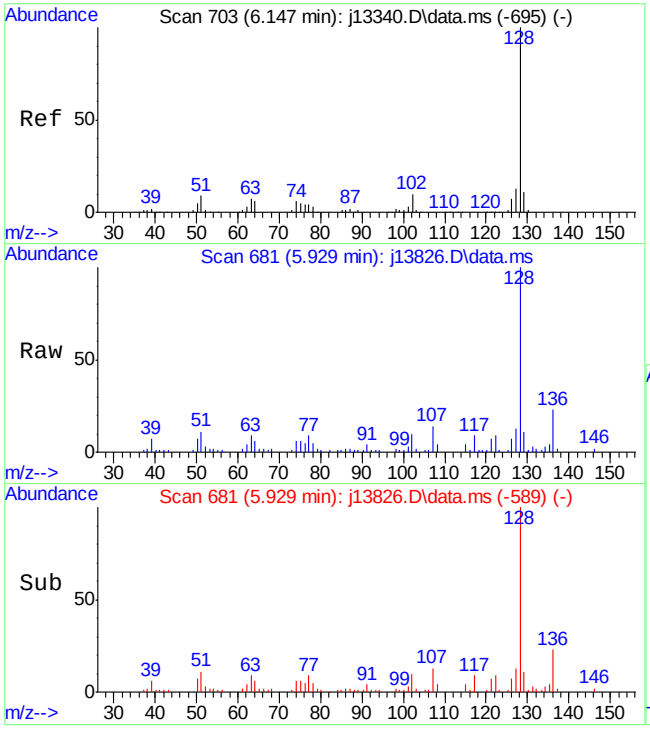
Tgt Ion:122 Resp: 147927

Ion	Ratio	Lower	Upper
122	100		
107	116.3	96.3	136.3



8.1.25

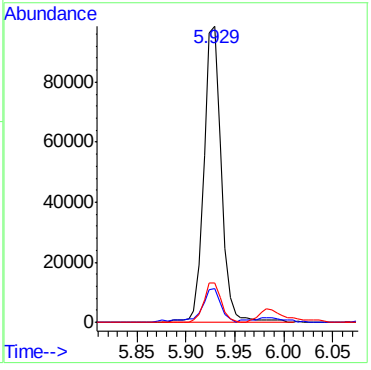
8

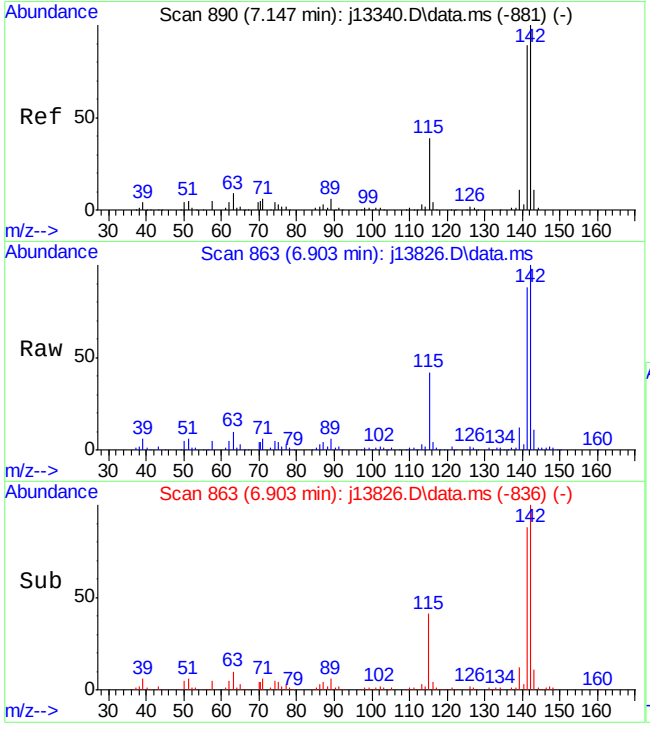


#30
Naphthalene
Concen: 2.46 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:128 Resp: 122512

Ion	Ratio	Lower	Upper
128	100		
129	12.6	0.0	31.2
127	13.2	0.0	33.8

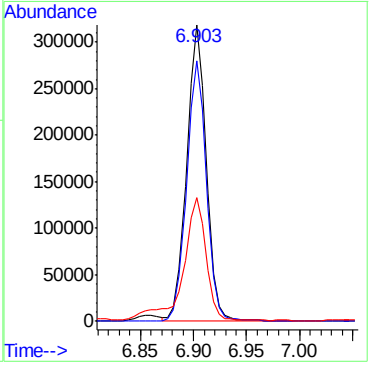




#35
1-Methylnaphthalene
Concen: 12.81 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

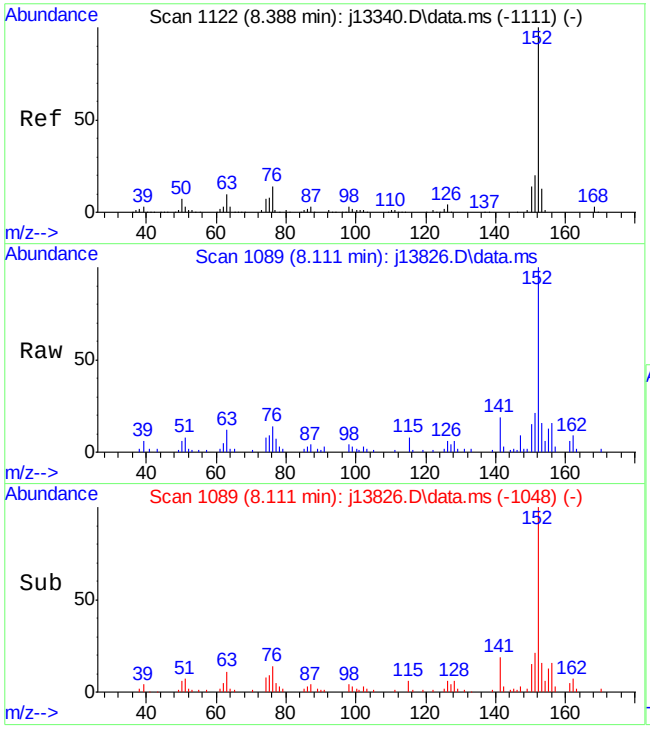
Tgt Ion:142 Resp: 407522

Ion	Ratio	Lower	Upper
142	100		
141	88.7	69.4	109.4
115	48.4	18.9	58.9



8.1.25

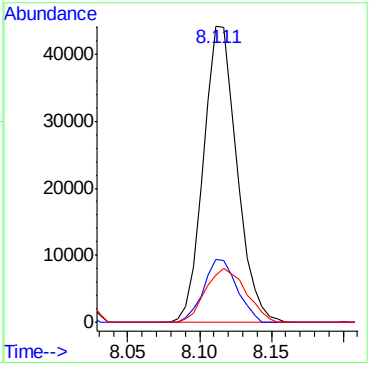
8

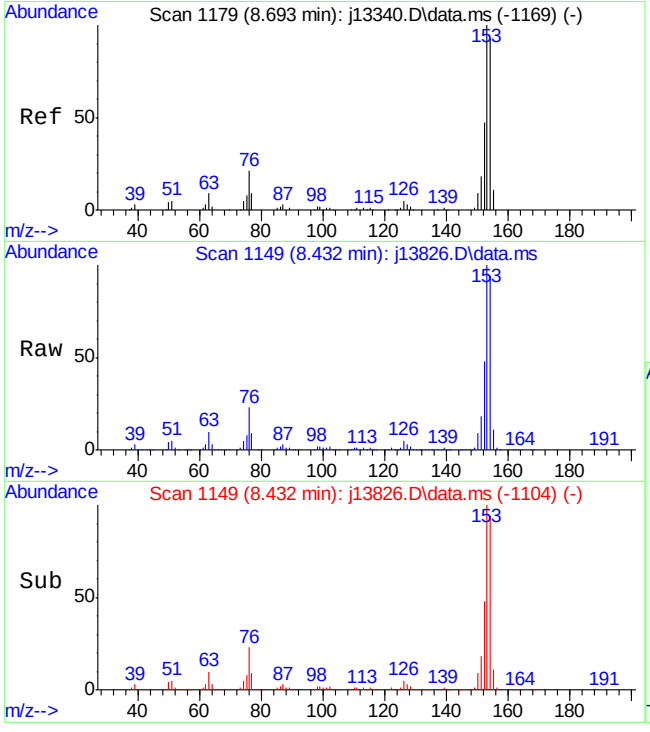


#44
Acenaphthylene
Concen: 1.51 ug/ml
RT: 8.111 min Scan# 1089
Delta R.T. -0.282 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:152 Resp: 71454

Ion	Ratio	Lower	Upper
152	100		
151	21.1	0.2	40.2
153	21.9	0.0	33.0

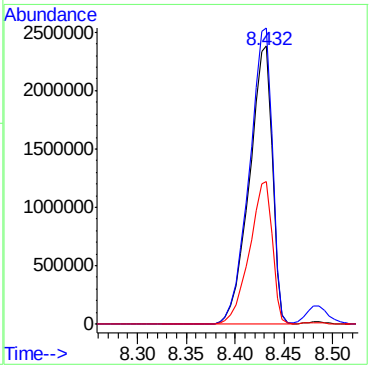


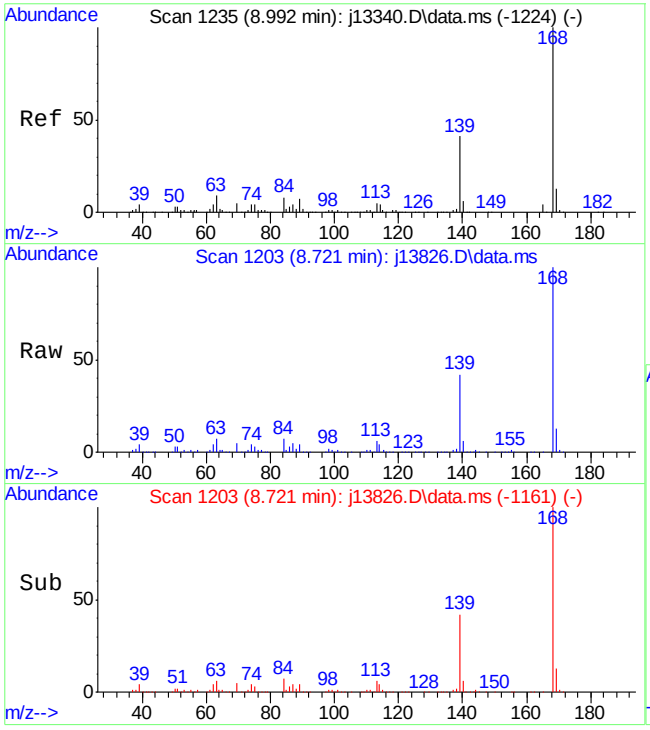


#47
Acenaphthene
Concen: 141.20 ug/ml
RT: 8.432 min Scan# 1149
Delta R.T. -0.261 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:154 Resp: 3930607

Ion	Ratio	Lower	Upper
154	100		
153	106.9	87.9	127.9
152	51.3	31.3	71.3

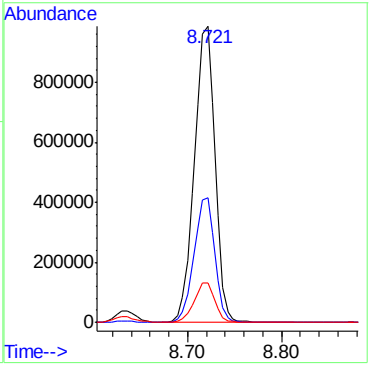


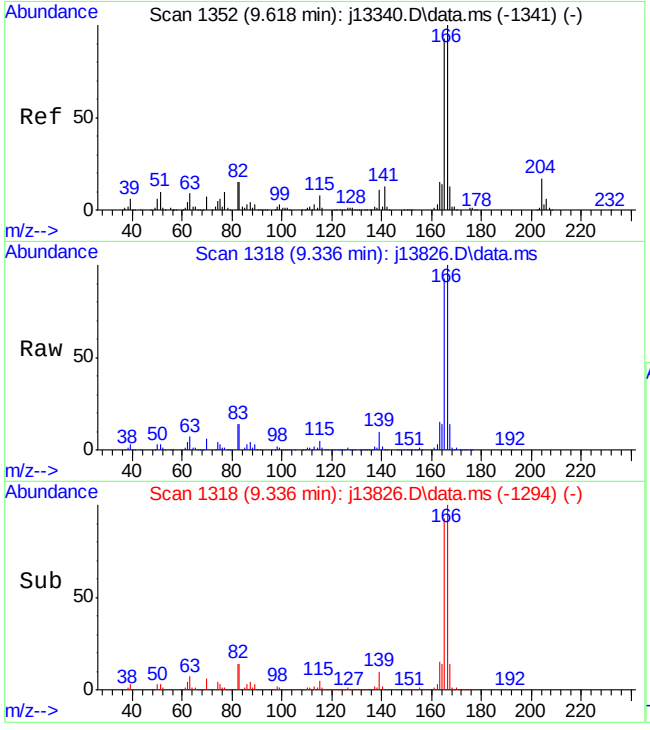


#50
Dibenzofuran
Concen: 37.85 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:168 Resp: 1505290

Ion	Ratio	Lower	Upper
168	100		
139	42.3	21.2	61.2
169	13.4	0.0	33.2

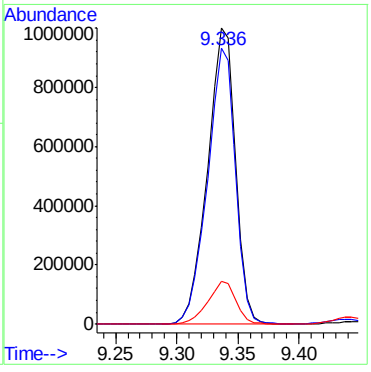


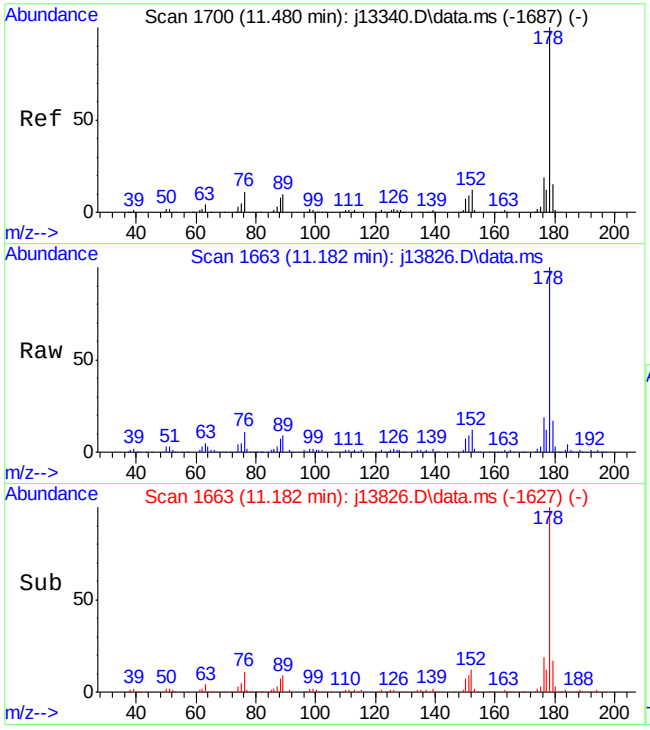


#54
Fluorene
Concen: 45.85 ug/ml
RT: 9.336 min Scan# 1318
Delta R.T. -0.070 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:166 Resp: 1588848

Ion	Ratio	Lower	Upper
166	100		
165	92.6	73.8	113.8
167	14.7	0.0	33.3

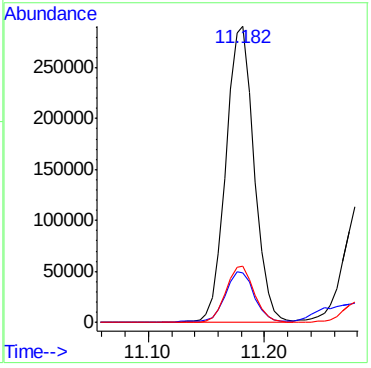


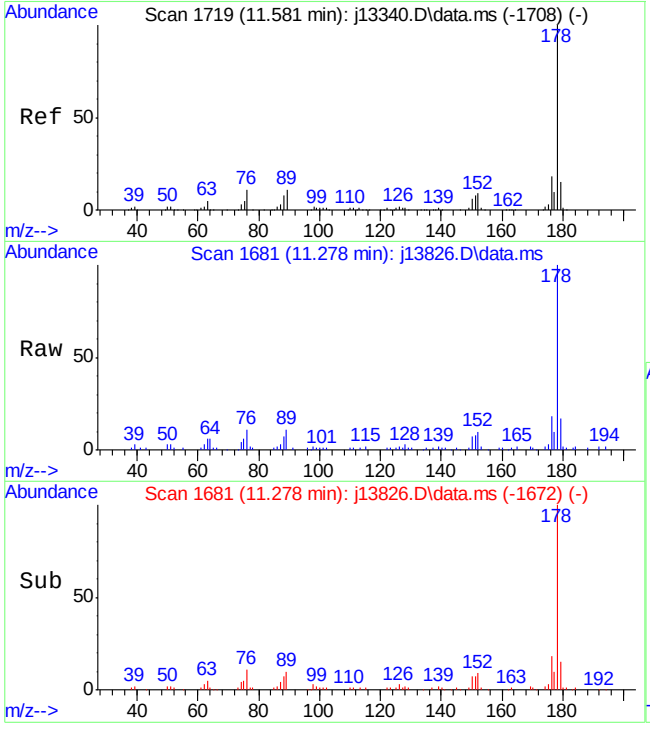


#66
Phenanthrene
Concen: 11.53 ug/ml
RT: 11.182 min Scan# 1663
Delta R.T. -0.005 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:178 Resp: 491021

Ion	Ratio	Lower	Upper
178	100		
179	17.7	0.0	35.2
176	18.8	0.0	38.8

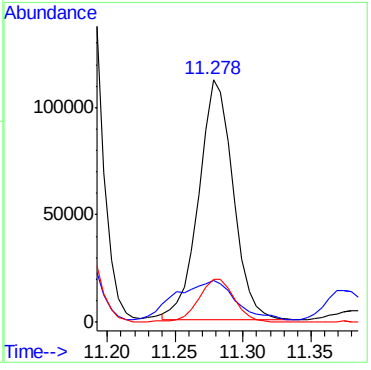


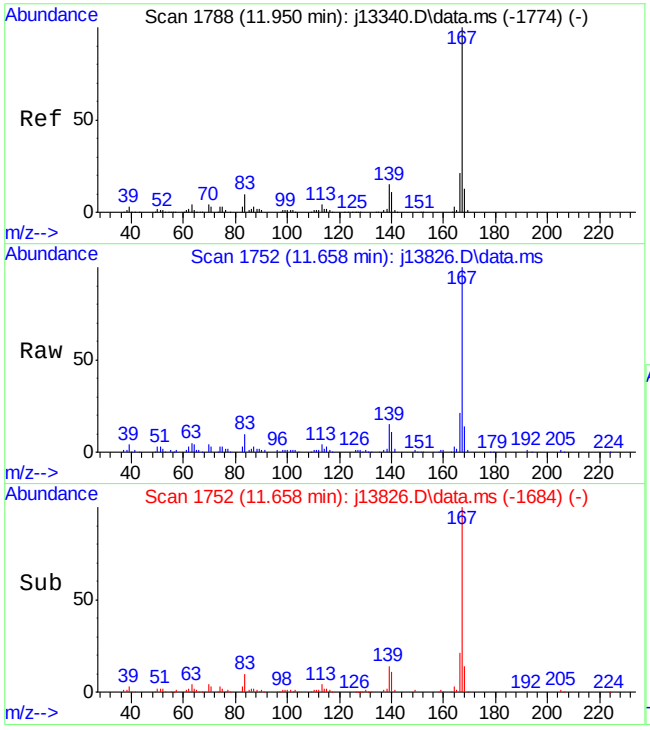


#67
Anthracene
Concen: 4.81 ug/ml
RT: 11.278 min Scan# 1681
Delta R.T. -0.151 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:178 Resp: 197052

Ion	Ratio	Lower	Upper
178	100		
179	25.9	0.0	35.1
176	18.4	0.0	38.3

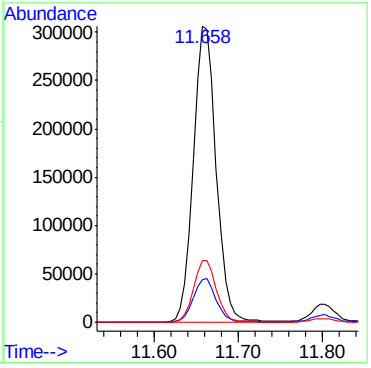


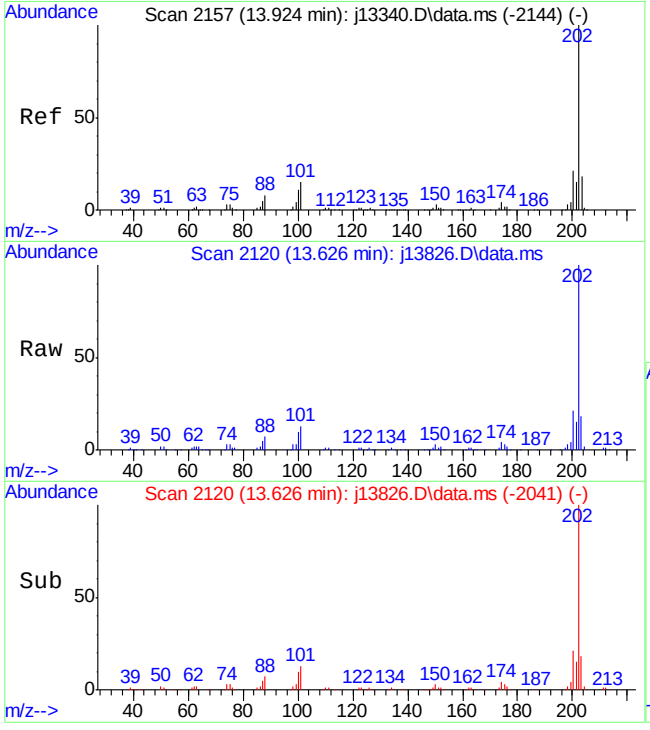


#68
Carbazole
Concen: 17.28 ug/ml
RT: 11.658 min Scan# 1752
Delta R.T. -0.136 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:167 Resp: 570578

Ion	Ratio	Lower	Upper
167	100		
139	15.0	0.0	34.1
166	21.1	0.9	40.9

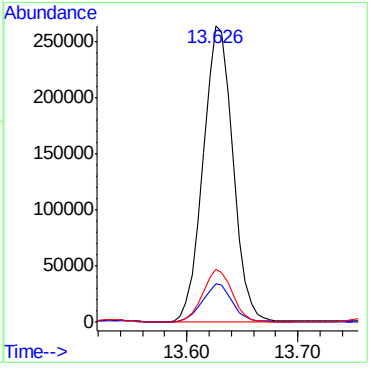


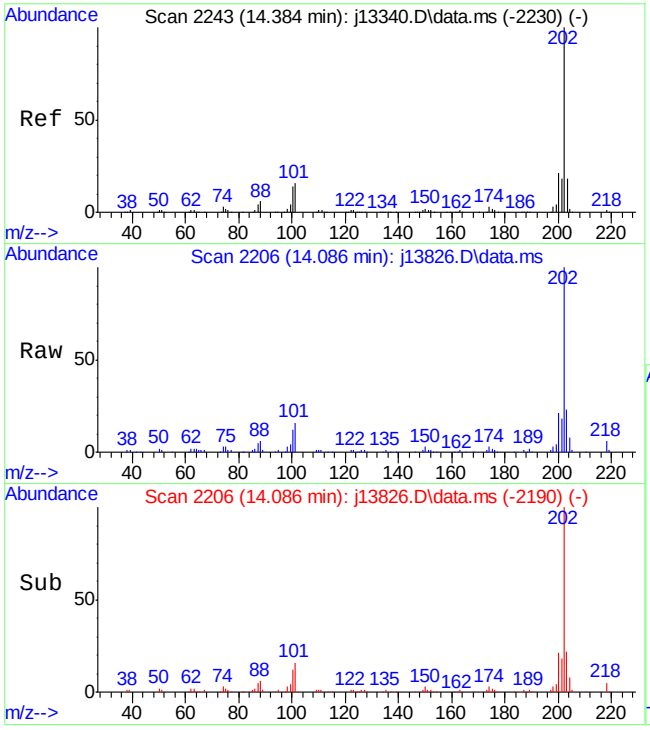


#70
Fluoranthene
Concen: 12.78 ug/ml
RT: 13.626 min Scan# 2120
Delta R.T. -0.075 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:202 Resp: 493429

Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.9
203	17.4	0.0	37.3

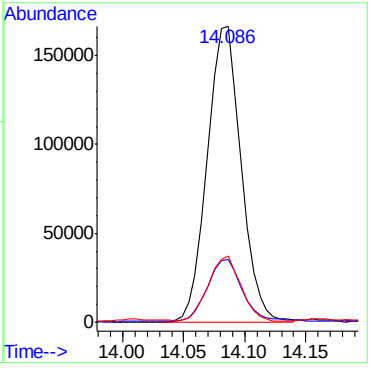




#73
Pyrene
Concen: 8.58 ug/ml
RT: 14.086 min Scan# 2206
Delta R.T. -0.115 min
Lab File: j13826.D
Acq: 14 Oct 2009 8:04 pm

Tgt Ion:202 Resp: 322194

Ion	Ratio	Lower	Upper
202	100		
200	23.1	0.5	40.5
203	21.3	0.0	37.8



8.1.25

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13826.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.694	260	263	270	rBV	1407094	1659048	9.82%	1.704%
2	3.742	270	272	284	rVB	275543	569397	3.37%	0.585%
3	4.132	341	345	358	rBV	113147	252257	1.49%	0.259%
4	4.480	405	410	423	rBV	954859	1648915	9.76%	1.694%
5	4.699	447	451	461	rBV	2633874	3212103	19.02%	3.299%
6	4.924	489	493	499	rBV	181212	235661	1.40%	0.242%
7	5.068	515	520	530	rBV2	104060	174440	1.03%	0.179%
8	5.191	539	543	555	rVB	1574057	1948378	11.54%	2.001%
9	5.325	563	568	578	rBV	587355	838186	4.96%	0.861%
10	5.598	607	619	624	rBV	604496	893652	5.29%	0.918%
11	5.726	638	643	651	rBV	893864	1086011	6.43%	1.115%
12	5.790	651	655	662	rVB	301670	398219	2.36%	0.409%
13	5.902	669	676	686	rBV	4128446	5370619	31.80%	5.516%
14	5.983	686	691	707	rVB2	693881	1240312	7.34%	1.274%
15	6.213	723	734	739	rBV2	229840	416873	2.47%	0.428%
16	6.368	753	763	771	rBV	183799	306417	1.81%	0.315%
17	6.453	771	779	782	rVV	379331	493251	2.92%	0.507%
18	6.485	782	785	789	rVV	222593	312902	1.85%	0.321%
19	6.523	789	792	800	rVB2	119033	174105	1.03%	0.179%
20	6.619	805	810	821	rBV2	149890	285233	1.69%	0.293%
21	6.705	821	826	835	rBV2	129212	212605	1.26%	0.218%
22	6.876	849	858	859	rBV3	405768	788152	4.67%	0.810%
23	6.903	859	863	872	rVB	1237179	1689257	10.00%	1.735%
24	7.133	898	906	912	rBV3	187317	369773	2.19%	0.380%
25	7.293	927	936	946	rVB	3112351	4005549	23.72%	4.114%
26	7.438	952	963	967	rBV2	380900	731932	4.33%	0.752%
27	7.705	1005	1013	1016	rVV5	89678	185868	1.10%	0.191%
28	7.742	1016	1020	1025	rVV3	104380	189970	1.12%	0.195%
29	7.807	1025	1032	1037	rVV	444962	710881	4.21%	0.730%
30	7.999	1061	1068	1078	rVB2	253685	577275	3.42%	0.593%
31	8.122	1084	1091	1100	rVB4	239336	503185	2.98%	0.517%
32	8.363	1123	1136	1140	rBV	2733762	4652702	27.55%	4.779%
33	8.432	1140	1149	1154	rVV	10046613	16889887	100.00%	17.348%
34	8.481	1154	1158	1164	rVB	339347	507734	3.01%	0.522%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	8.636	1178	1187	1194	rVB3	421519	756212	4.48%	0.777%
36	8.716	1194	1202	1216	rVV	2542348	4060277	24.04%	4.170%
37	9.336	1309	1318	1326	rVB	3640995	5770096	34.16%	5.927%
38	9.438	1326	1337	1339	rBV3	263268	460521	2.73%	0.473%
39	9.491	1344	1347	1352	rVB2	300825	415412	2.46%	0.427%
40	9.545	1352	1357	1359	rBV2	127862	193960	1.15%	0.199%
41	9.577	1359	1363	1370	rVB2	220513	367583	2.18%	0.378%
42	9.647	1371	1376	1382	rBV2	188365	320568	1.90%	0.329%
43	9.802	1397	1405	1412	rBV2	2098366	3629773	21.49%	3.728%
44	10.026	1436	1447	1453	rBV	527430	976223	5.78%	1.003%
45	10.155	1464	1471	1484	rVB	494669	833313	4.93%	0.856%
46	10.315	1493	1501	1506	rBV4	82784	178208	1.06%	0.183%
47	10.390	1506	1515	1519	rBV3	275011	663162	3.93%	0.681%
48	10.545	1538	1544	1554	rVB3	103041	226395	1.34%	0.233%
49	10.743	1575	1581	1598	rVV9	93468	358738	2.12%	0.368%
50	10.866	1598	1604	1608	rVV3	142412	266918	1.58%	0.274%
51	10.914	1609	1613	1619	rVV	160440	275871	1.63%	0.283%
52	10.973	1619	1624	1638	rVB	144557	285700	1.69%	0.293%
53	11.139	1640	1655	1659	rBV2	2298526	4614457	27.32%	4.740%
54	11.176	1659	1662	1671	rVB	824894	1361492	8.06%	1.398%
55	11.278	1671	1681	1692	rVB	304497	674866	4.00%	0.693%
56	11.380	1692	1700	1709	rBV6	72694	241593	1.43%	0.248%
57	11.658	1744	1752	1758	rBV	810835	1575476	9.33%	1.618%
58	11.706	1758	1761	1769	rVV	232495	424356	2.51%	0.436%
59	11.797	1770	1778	1784	rVV5	148878	385234	2.28%	0.396%
60	11.850	1784	1788	1797	rVV	84806	199482	1.18%	0.205%
61	11.936	1798	1804	1821	rVB	236376	678665	4.02%	0.697%
62	12.278	1862	1868	1875	rVB2	228121	517374	3.06%	0.531%
63	12.380	1880	1887	1893	rVV	431654	833856	4.94%	0.856%
64	12.428	1893	1896	1906	rVB3	136119	268869	1.59%	0.276%
65	12.519	1907	1913	1924	rVB5	151425	331994	1.97%	0.341%
66	12.652	1933	1938	1952	rBV5	124379	355327	2.10%	0.365%
67	12.754	1952	1957	1962	rVV	103654	202951	1.20%	0.208%
68	12.802	1962	1966	1972	rVV3	96005	199892	1.18%	0.205%
69	13.626	2113	2120	2131	rVB	659606	1249621	7.40%	1.284%
70	14.086	2197	2206	2214	rBV	471764	916771	5.43%	0.942%
71	14.503	2273	2284	2293	rBV	1916828	3398942	20.12%	3.491%

LSC Area Percent Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On    : 14 Oct 2009   8:04 pm
Operator  : sheilac
Sample    : t39646-9
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 17   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 6000 Area counts
Start Thrs: 0.2                           Max Peaks: 100
Stop Thrs : 0                         Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
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72	14.829	2330	2345	2356	rBV3	159159	419252	2.48%	0.431%
73	16.653	2676	2686	2695	rBV	1504065	3033399	17.96%	3.116%
74	19.461	3201	3211	3230	rBV	864350	1905507	11.28%	1.957%

Sum of corrected areas: 97359055

LSC Report - Integrated Chromatogram

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On    : 14 Oct 2009   8:04 pm
Operator  : sheilac
Sample    : t39646-9
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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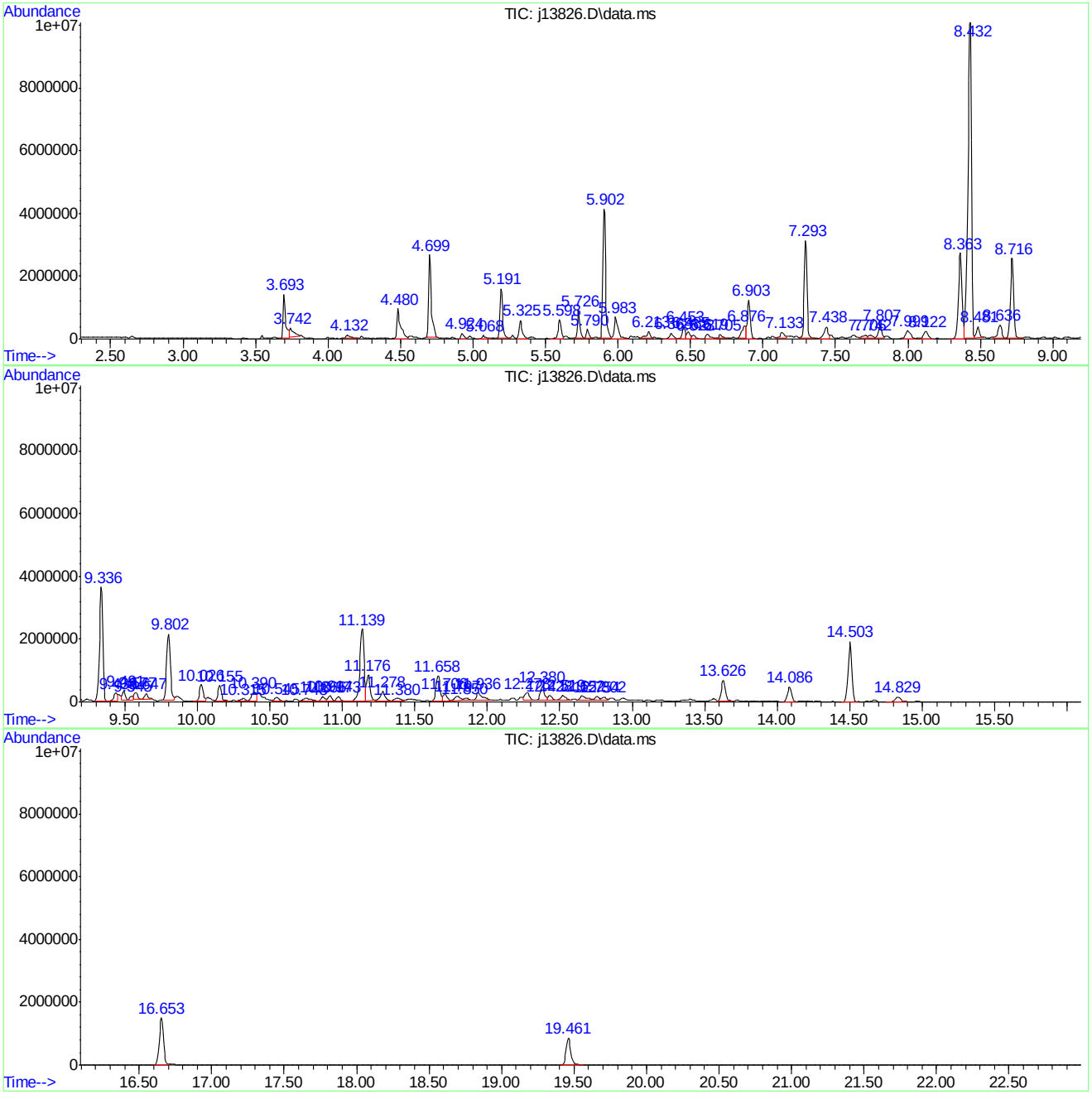


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

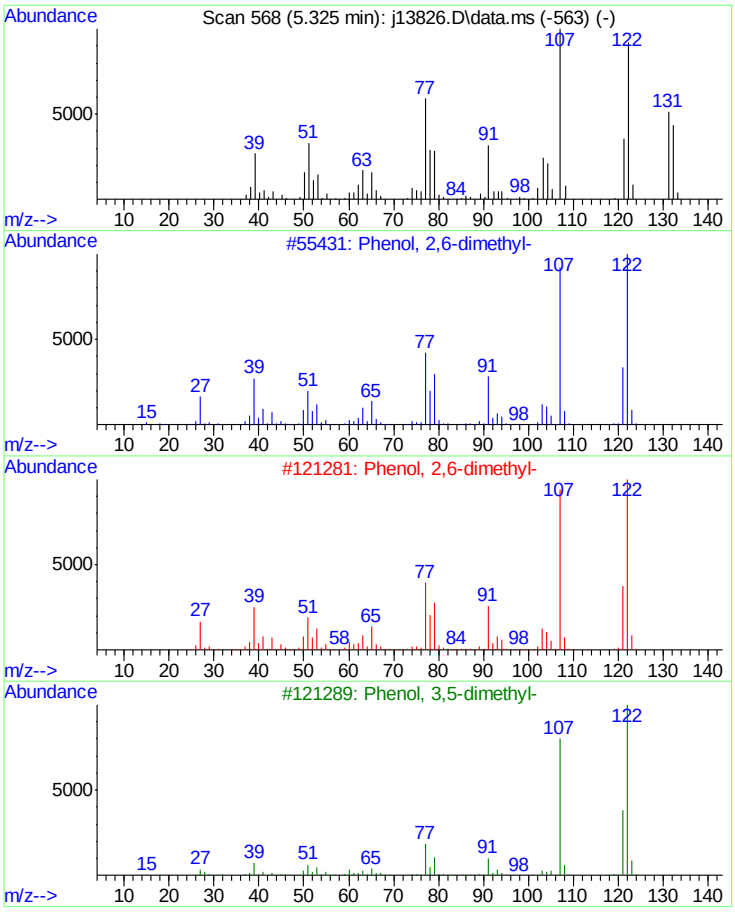
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

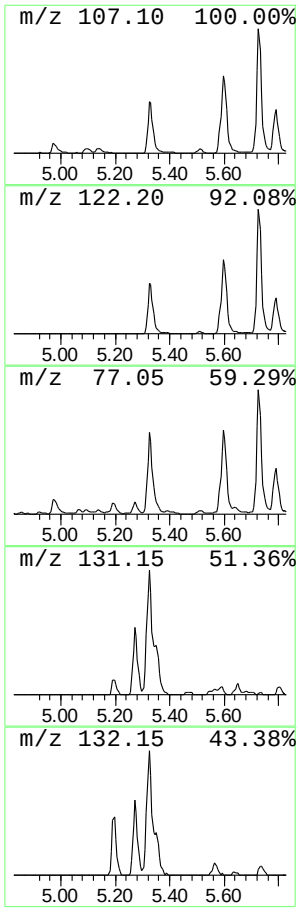
****

Peak Number 1 Phenol, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.325	6.24 ug/ml	838186	Naphthalene-d8	5.902

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	92
2	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	60
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	60
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	60
5	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	60





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

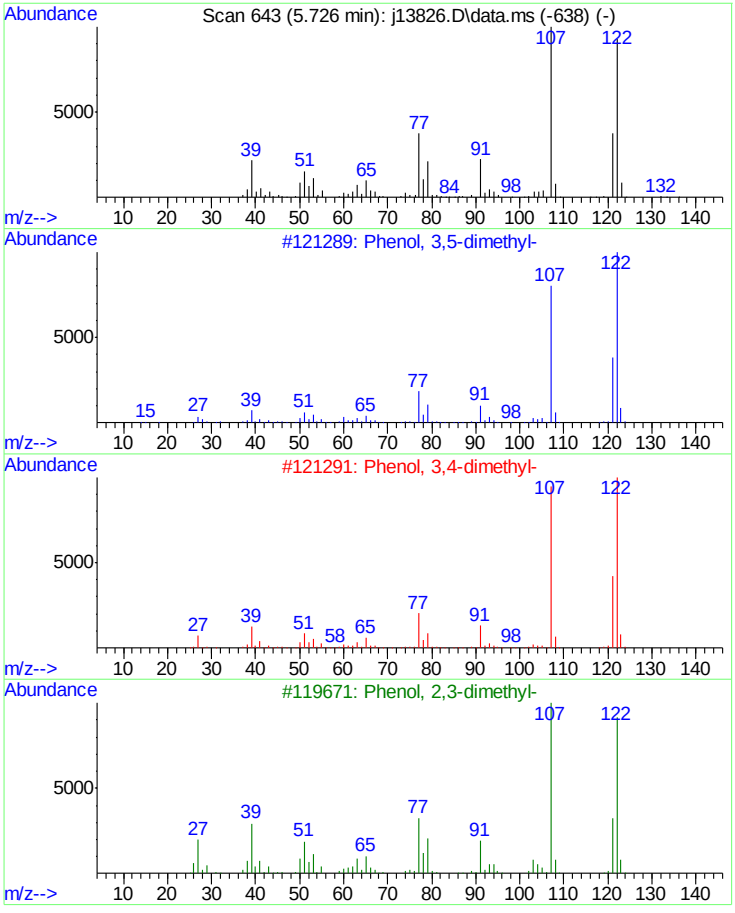
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

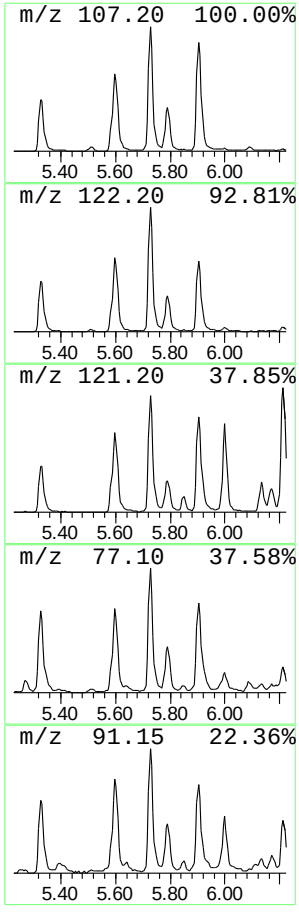
****

Peak Number 2 Phenol, 3,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.726	8.09 ug/ml	1086010	Naphthalene-d8	5.902

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	95
2	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	95
3	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	94
4	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
5	Phenol, 2,4-dimethyl-	122	C8H10O	000105-67-9	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

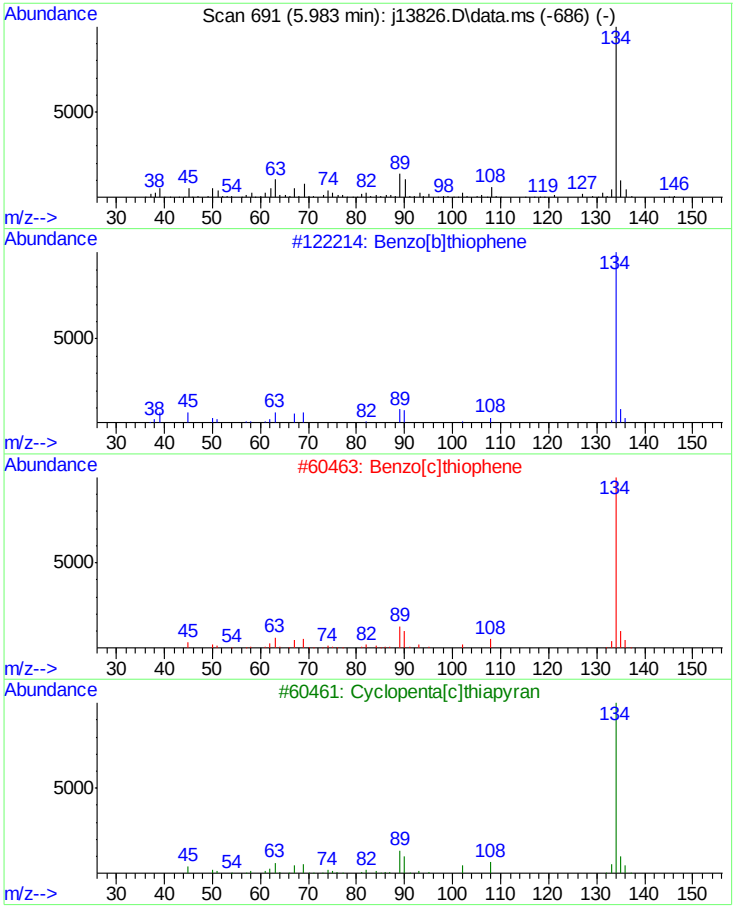
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

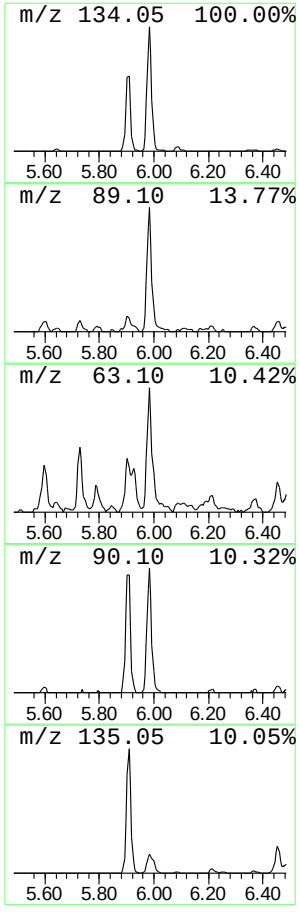
****

Peak Number 3 Benzo[b]thiophene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.983	9.24 ug/ml	1240310	Naphthalene-d8	5.902

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
2	Benzo[c]thiophene	134	C8H6S	000270-82-6	95
3	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	94
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
5	Cyclopenta[b]thiapyran	134	C8H6S	000271-17-0	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

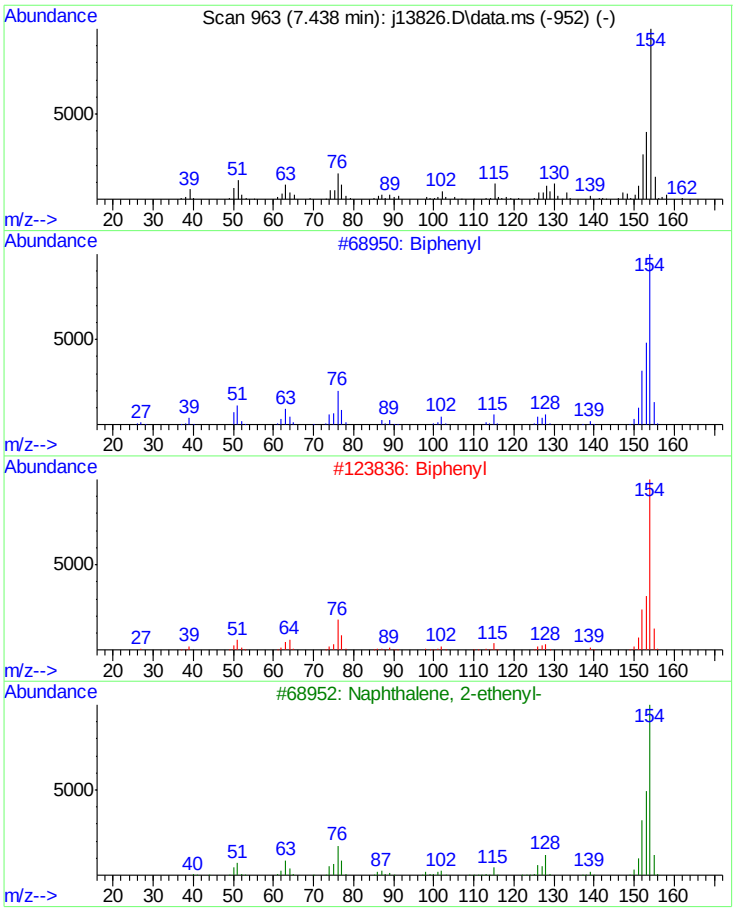
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

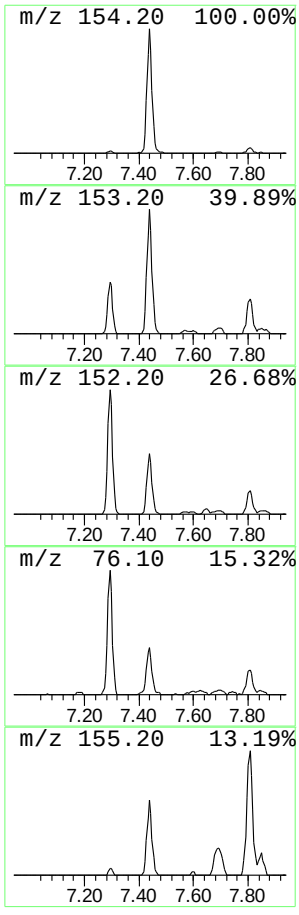
****

Peak Number 4 Biphenyl Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.438	6.29 ug/ml	731932	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl	154	C12H10	000092-52-4	96
2	Biphenyl	154	C12H10	000092-52-4	95
3	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	94
4	Biphenyl	154	C12H10	000092-52-4	92
5	Biphenyl	154	C12H10	000092-52-4	89





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

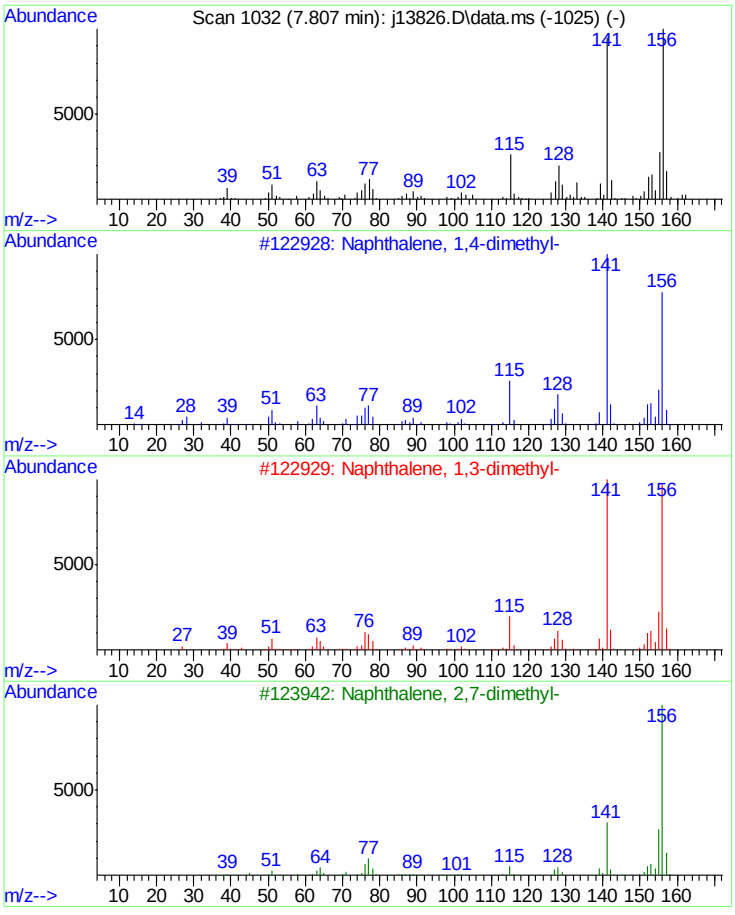
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

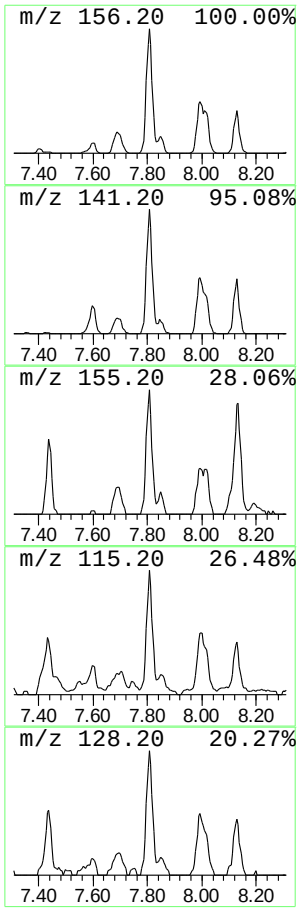
****

Peak Number 5 Naphthalene, 1,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.807	6.11 ug/ml	710881	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

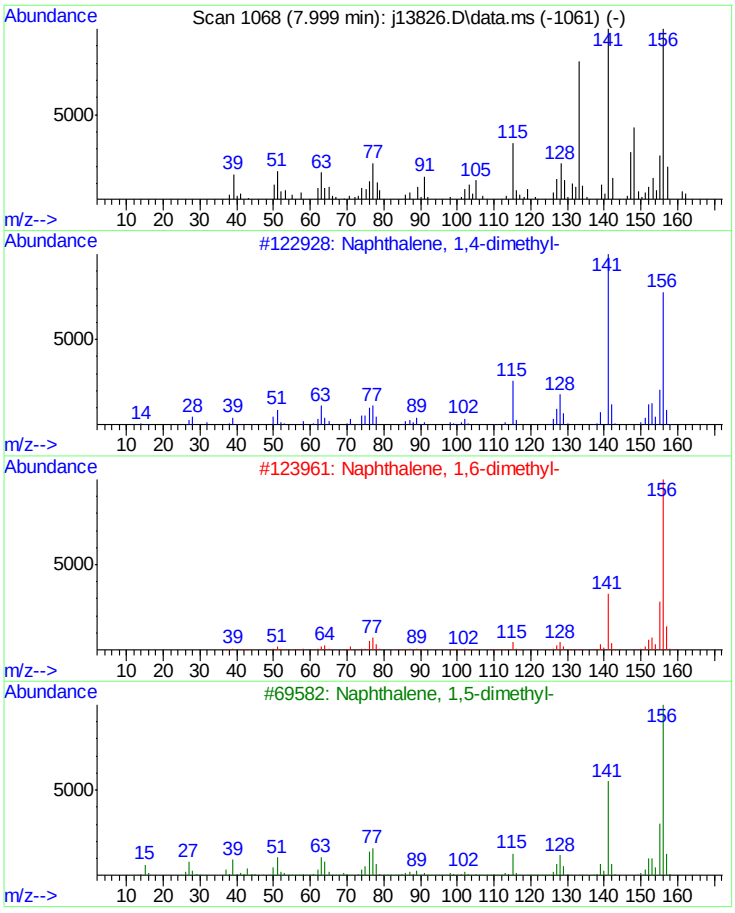
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

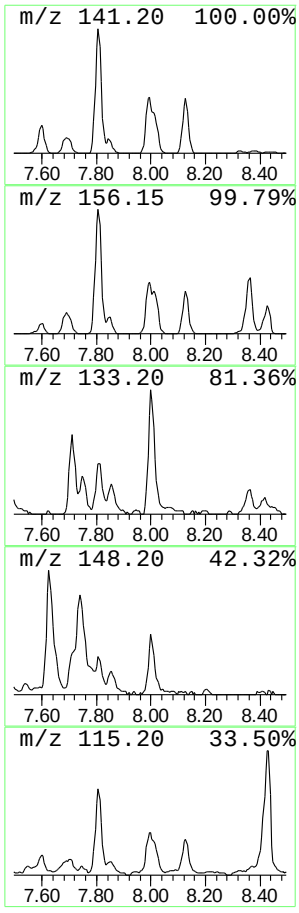
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.999	4.96 ug/ml	577275	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	92
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	92
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

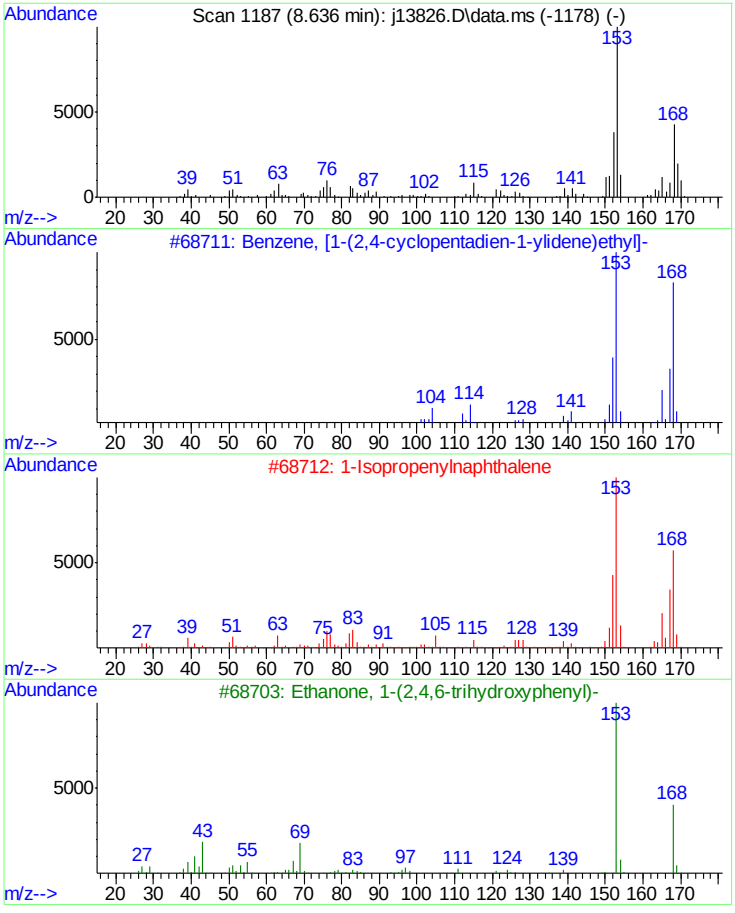
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

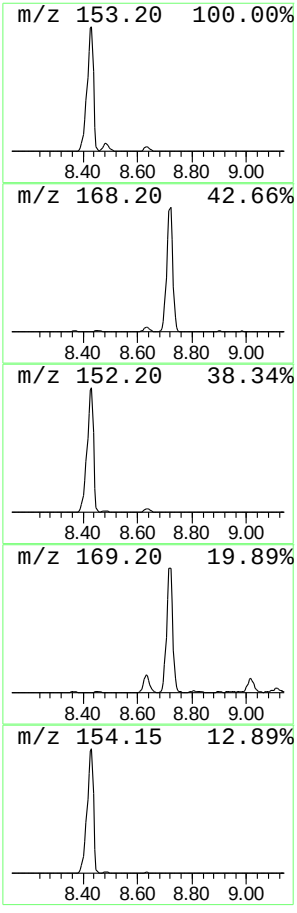
****

Peak Number 7 Benzene, [1-(2,4-cyclopenta... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.636	6.50 ug/ml	756212	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	64
2	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	49
3	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	43
4	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	38
5	1,1,4,4-Tetramethyl-1,4-disilacy...	168	C8H16Si2	020627-53-6	37





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

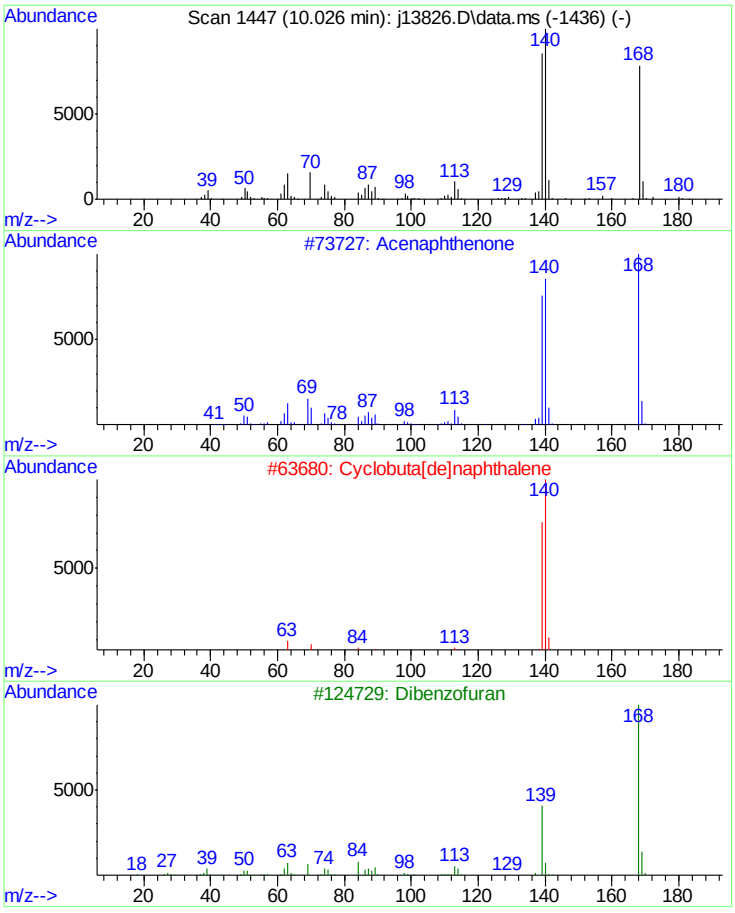
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

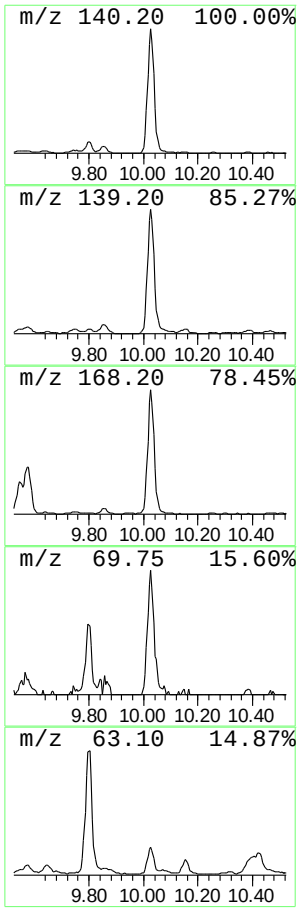
****

Peak Number 8 Acenaphthenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.026	8.46 ug/ml	976223	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthenone	168	C12H8O	1000128-38-5	93
2	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	52
3	Dibenzofuran	168	C12H8O	000132-64-9	52
4	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	1000142-39-1	50
5	Benzaldehyde, 2-fluoro-3-hydroxy-	140	C7H5FO2	103438-86-4	47





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

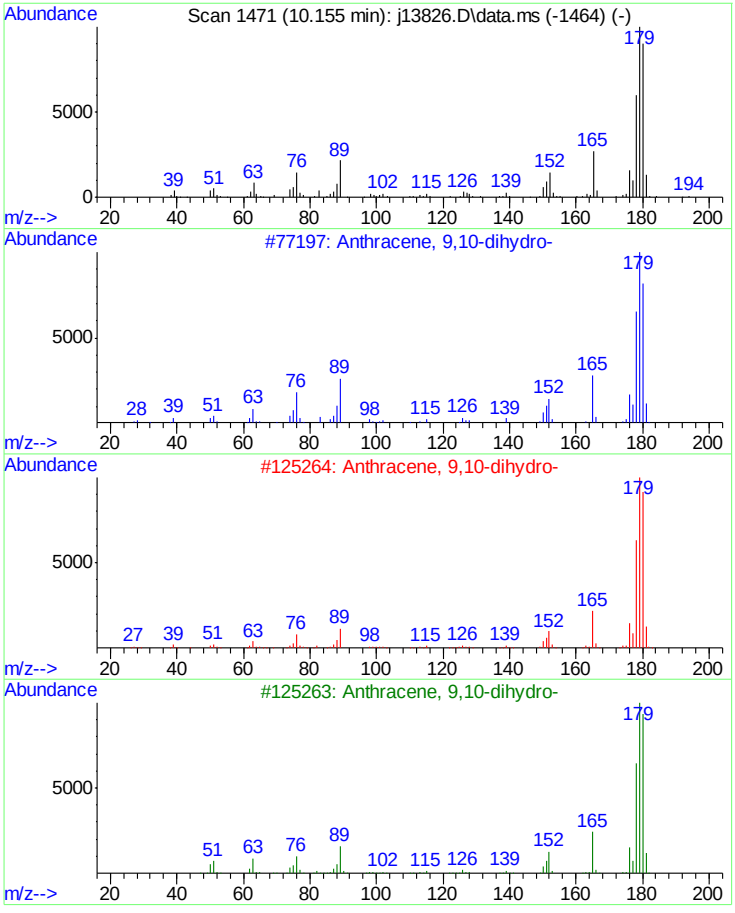
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

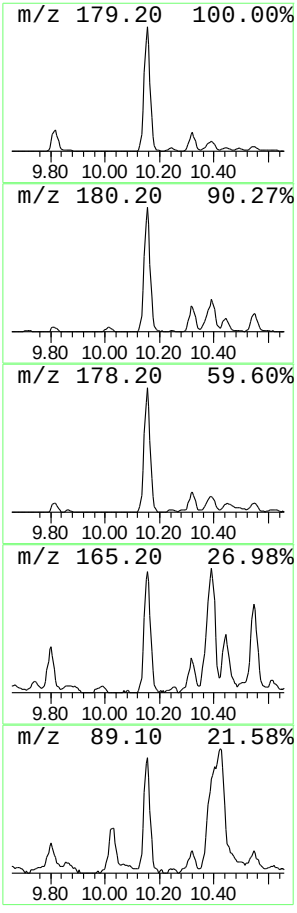
****

Peak Number 9 Anthracene, 9,10-dihydro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.155	7.22 ug/ml	833313	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	98
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
4	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	93
5	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	92





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

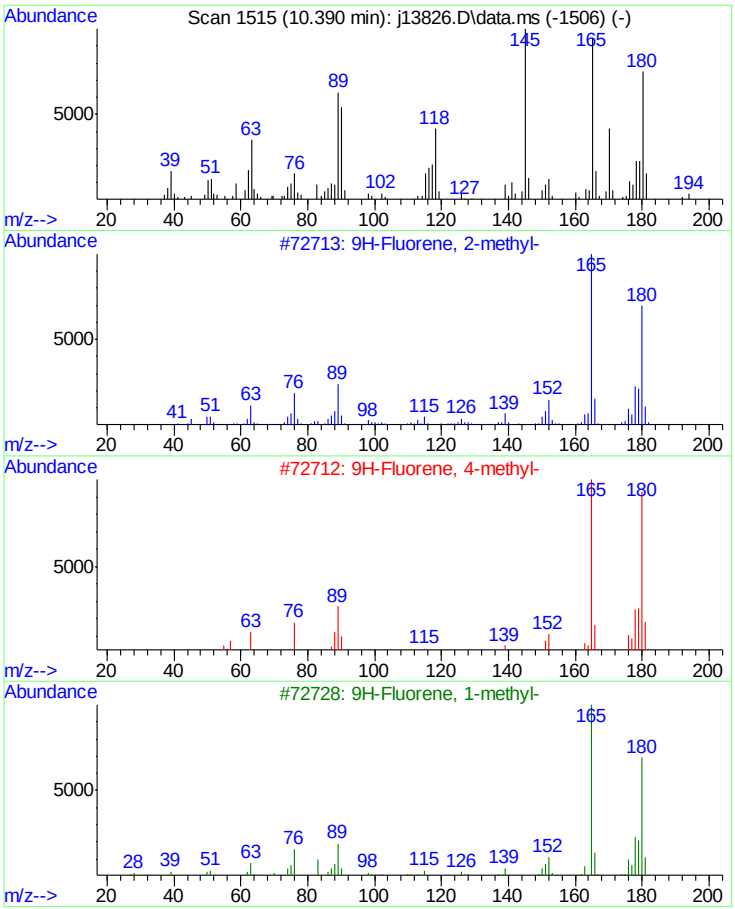
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

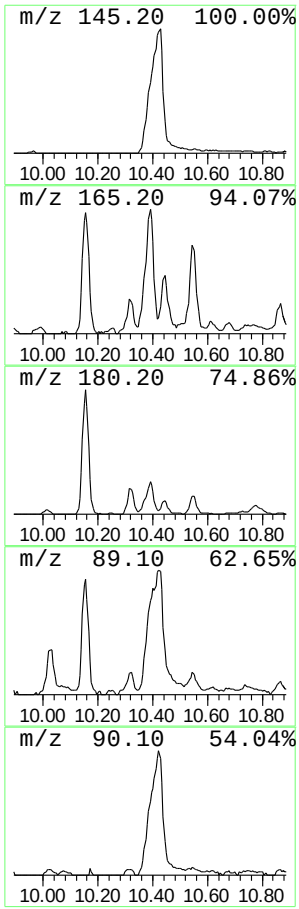
****

Peak Number 10 9H-Fluorene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.390	5.75 ug/ml	663162	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
2	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	83
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	80
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

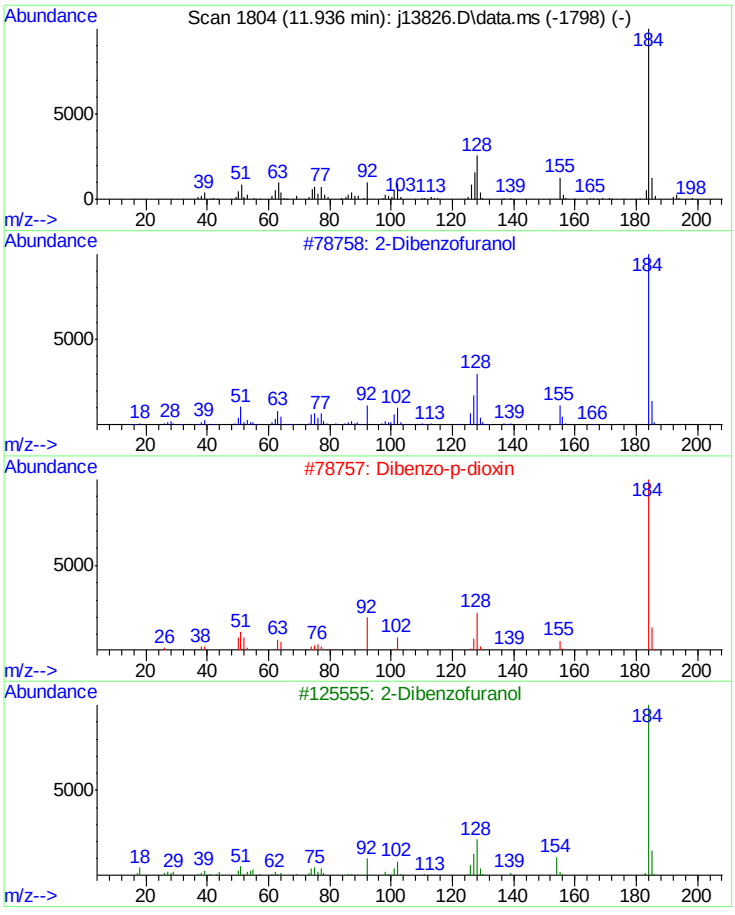
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

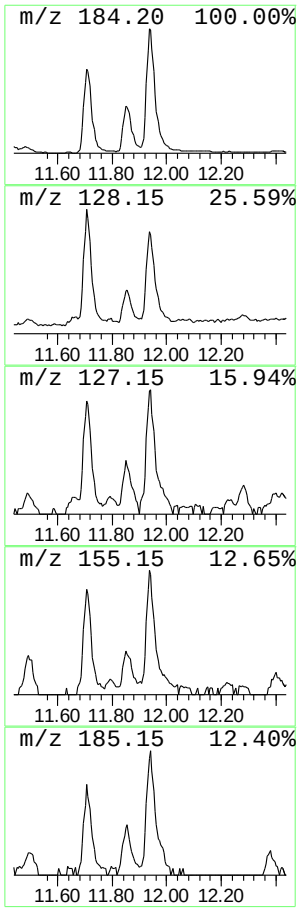
****

Peak Number 11 2-Dibenzofuranol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.936	5.88 ug/ml	678665	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	95
2	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	90
3	2-Dibenzofuranol	184	C12H8O2	000086-77-1	87
4	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	72
5	1H-Benzimidazole, 2-(2-furanyl)-	184	C11H8N2O	003878-19-1	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

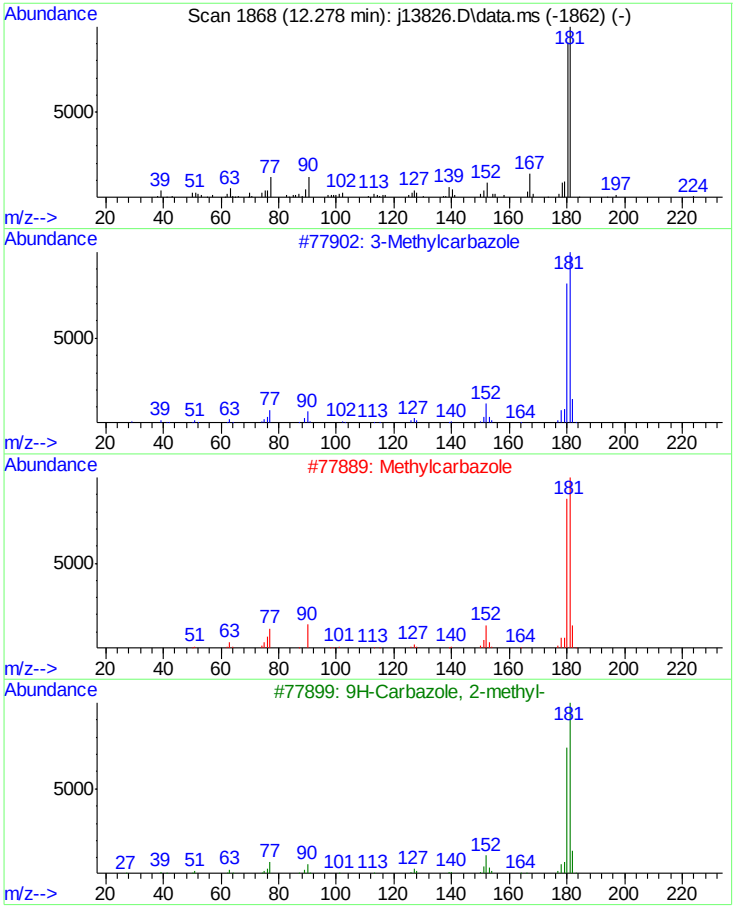
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

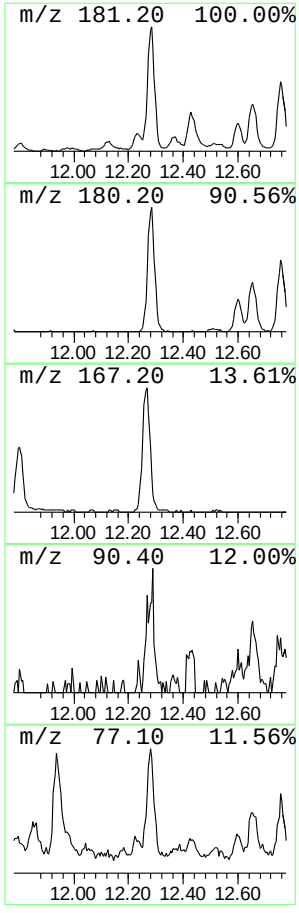
****

Peak Number 12 3-Methylcarbazole Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.278	4.48 ug/ml	517374	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	90
2	Methylcarbazole	181	C13H11N	027323-29-1	83
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	83
4	1-Aminofluorene	181	C13H11N	006344-63-4	72
5	2-Fluorenamine	181	C13H11N	000153-78-6	72





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

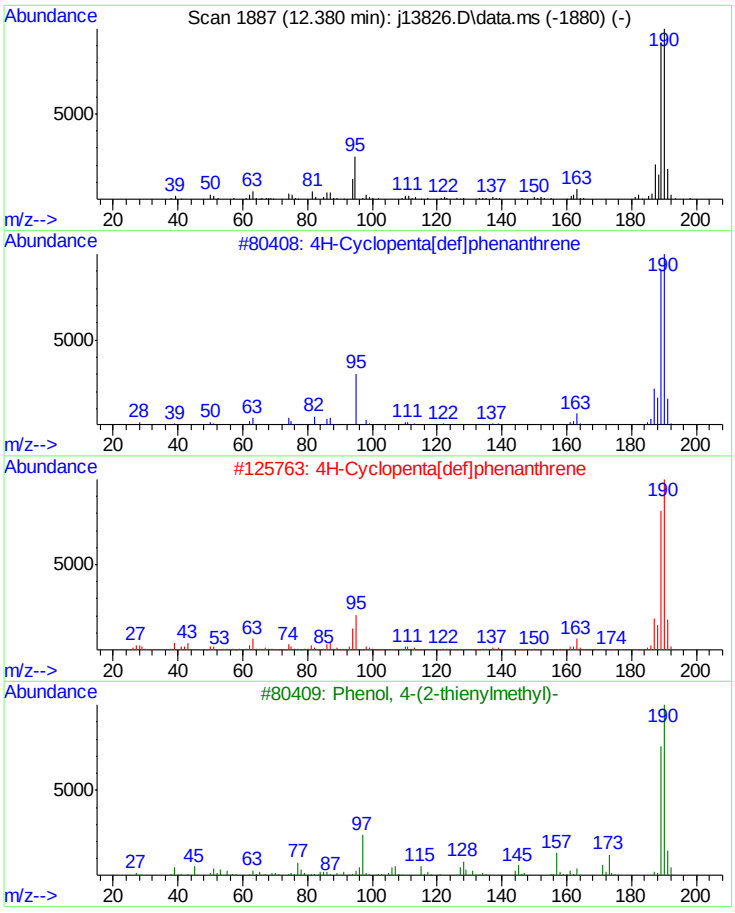
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

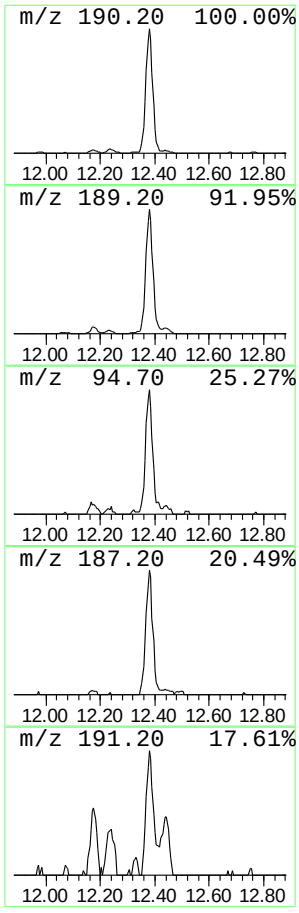
****

Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.380	7.23 ug/ml	833856	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	96
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	95
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	53
4	Cyclohexanone, 2-(2-furanylmethy...	190	C12H14O2	056053-07-7	27
5	4(1H)-Quinolinone, 3-methoxy-1-m...	189	C11H11NO2	052381-20-1	25





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

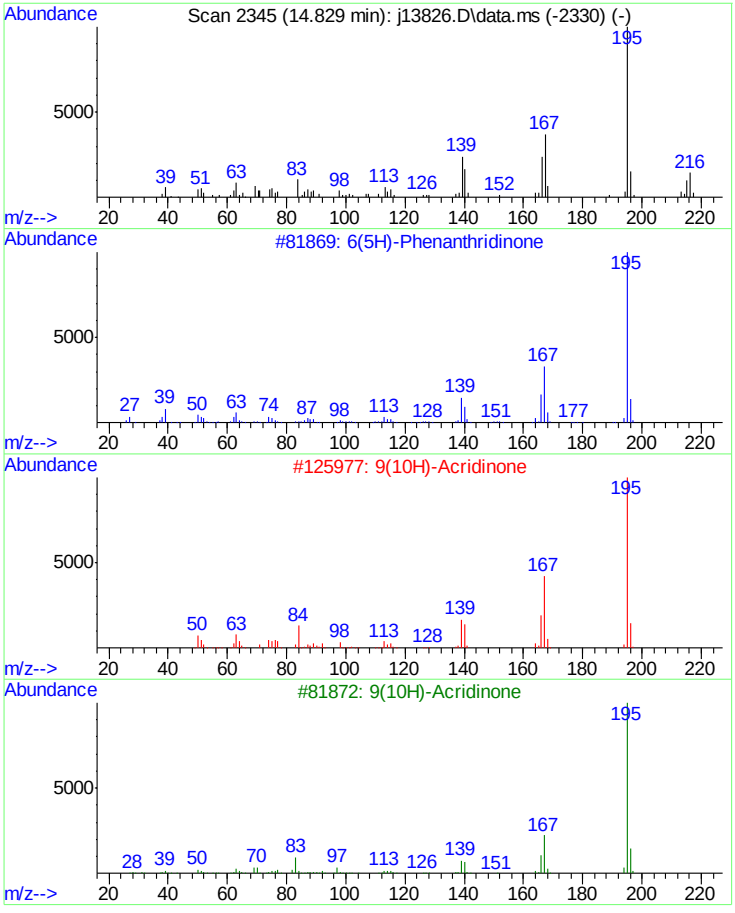
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

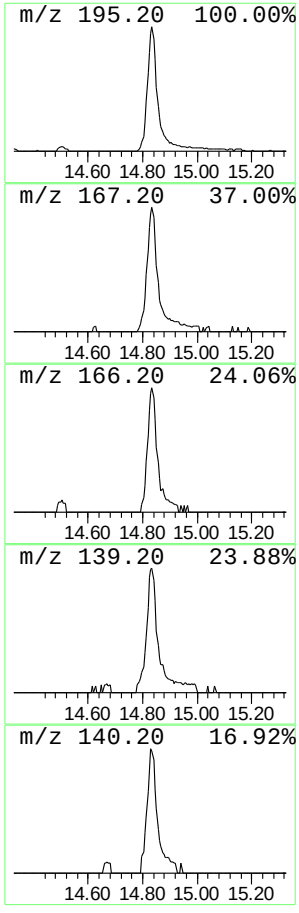
****

Peak Number 14 6(5H)-Phenanthridinone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.829	5.53 ug/ml	419252	Chrysene-d12	16.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	95
2	9(10H)-Acridinone	195	C13H9NO	000578-95-0	91
3	9(10H)-Acridinone	195	C13H9NO	000578-95-0	91
4	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	90
5	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	87





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13826.D
Acq On : 14 Oct 2009 8:04 pm
Operator : sheilac
Sample : t39646-9
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Phenol, 2,6-dim...	5.325	6.2	ug/ml	838186	2	5.902	5370620	40.0
Phenol, 3,5-dim...	5.726	8.1	ug/ml	1086010	2	5.902	5370620	40.0
Benzo[b]thiophene	5.983	9.2	ug/ml	1240310	2	5.902	5370620	40.0
Biphenyl	7.438	6.3	ug/ml	731932	3	8.363	4652700	40.0
Naphthalene, 1,...	7.807	6.1	ug/ml	710881	3	8.363	4652700	40.0
Naphthalene, 1,...	7.999	5.0	ug/ml	577275	3	8.363	4652700	40.0
Benzene, [1-(2,...	8.636	6.5	ug/ml	756212	3	8.363	4652700	40.0
Acenaphthenone	10.026	8.5	ug/ml	976223	4	11.139	4614460	40.0
Anthracene, 9,1...	10.155	7.2	ug/ml	833313	4	11.139	4614460	40.0
9H-Fluorene, 2-...	10.390	5.8	ug/ml	663162	4	11.139	4614460	40.0
2-Dibenzofuranol	11.936	5.9	ug/ml	678665	4	11.139	4614460	40.0
3-Methylcarbazole	12.278	4.5	ug/ml	517374	4	11.139	4614460	40.0
4H-Cyclopenta[d...	12.380	7.2	ug/ml	833856	4	11.139	4614460	40.0
6(5H)-Phenanthr...	14.829	5.5	ug/ml	419252	5	16.653	3033400	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13852.D
Acq On : 15 Oct 2009 6:17 pm
Operator : sheilac
Sample : t39646-9,5x
Misc : op13250,Ej635,1000,,,1,5,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 16 15:15:55 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

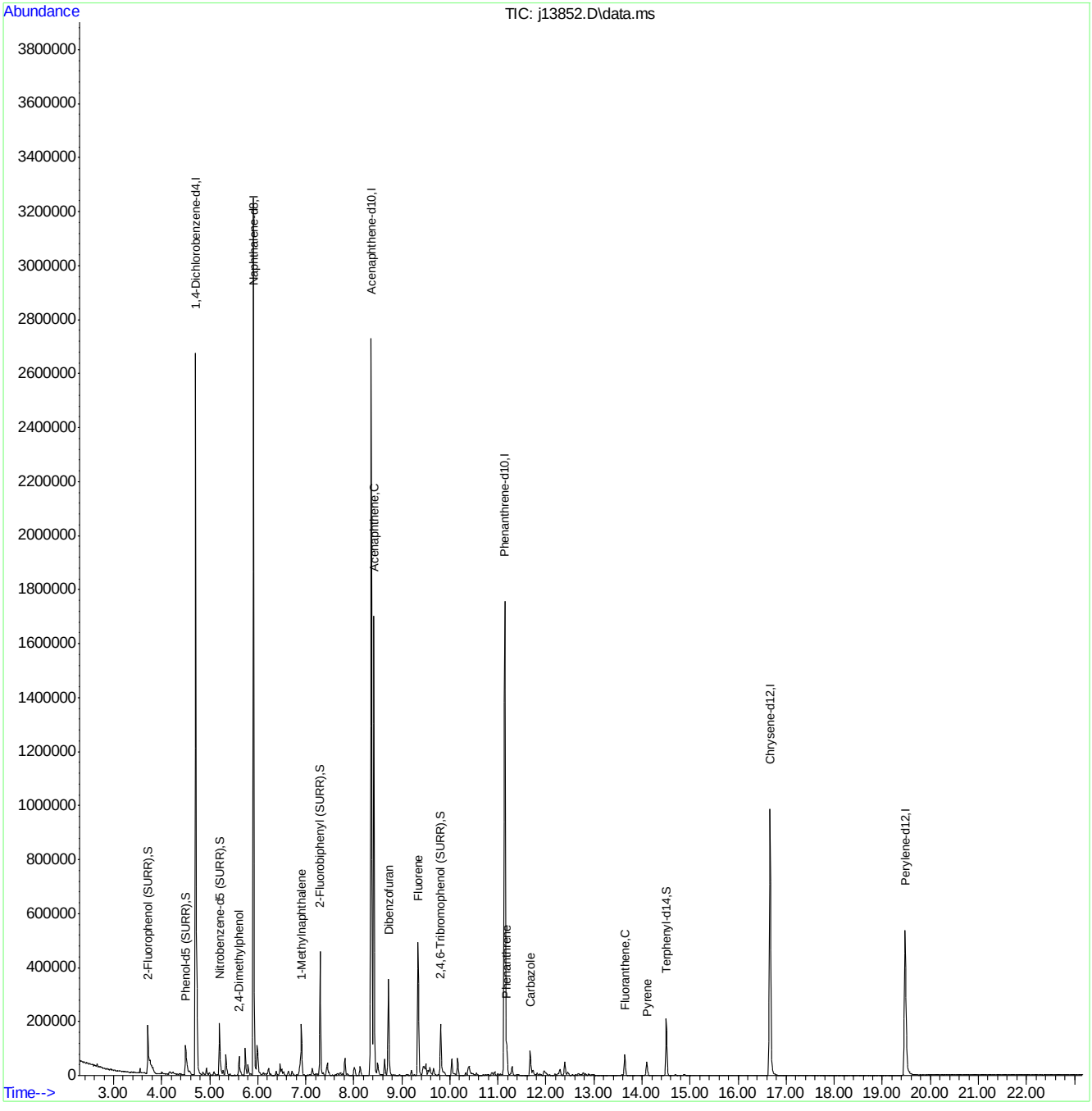
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.705	152	476685	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1656863	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.363	164	906275	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1121162	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	756081	40.00	ug/ml	-0.07
80) Perylene-d12	19.477	264	503566	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	99210	6.63	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery	=	6.63%#	
5) Phenol-d5 (SURR)	4.501	99	79257	4.24	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	4.24%#	
21) Nitrobenzene-d5 (SURR)	5.202	82	88732	5.11	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery	=	10.22%#	
40) 2-Fluorobiphenyl (SURR)	7.299	172	172084	4.87	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery	=	9.74%#	
62) 2,4,6-Tribromophenol (...	9.807	330	32746	8.68	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery	=	8.68%#	
74) Terphenyl-d14	14.503	244	121711	6.74	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	=	13.48%	
Target Compounds						Qvalue
25) 2,4-Dimethylphenol	5.614	122	21575	1.66	ug/ml	100
35) 1-Methylnaphthalene	6.908	142	67515	2.34	ug/ml	95
47) Acenaphthene	8.416	154	555323	22.02	ug/ml	99
50) Dibenzofuran	8.721	168	222472	6.18	ug/ml	99
54) Fluorene	9.342	166	231614	7.38	ug/ml	99
66) Phenanthrene	11.182	178	70361	2.11	ug/ml#	60
68) Carbazole	11.674	167	74350	2.87	ug/ml#	59
70) Fluoranthene	13.642	202	66887	2.21	ug/ml#	63
73) Pyrene	14.097	202	43901	1.65	ug/ml#	58

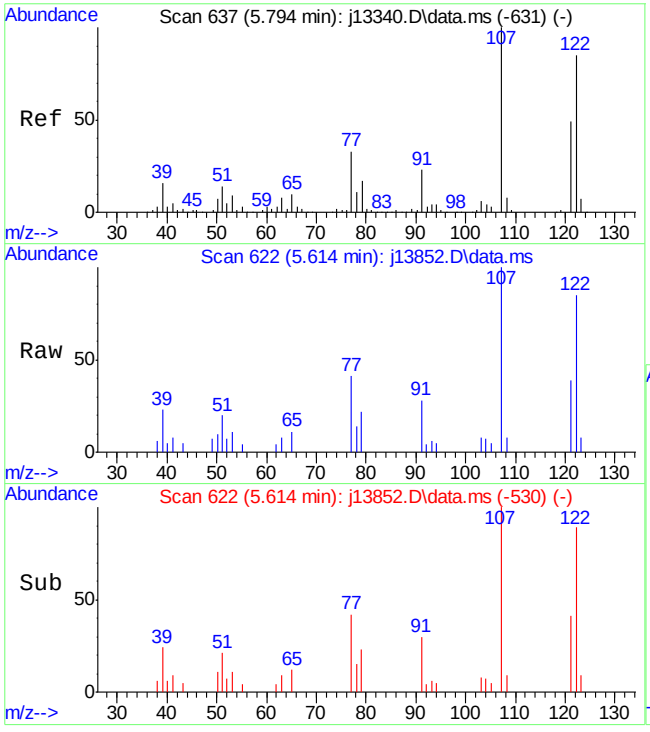
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13852.D
Acq On : 15 Oct 2009 6:17 pm
Operator : sheilac
Sample : t39646-9,5x
Misc : op13250,Ej635,1000,,,1,5,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 16 15:15:55 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

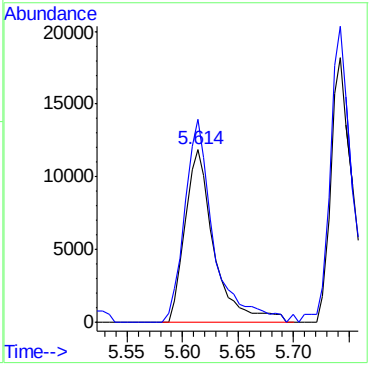


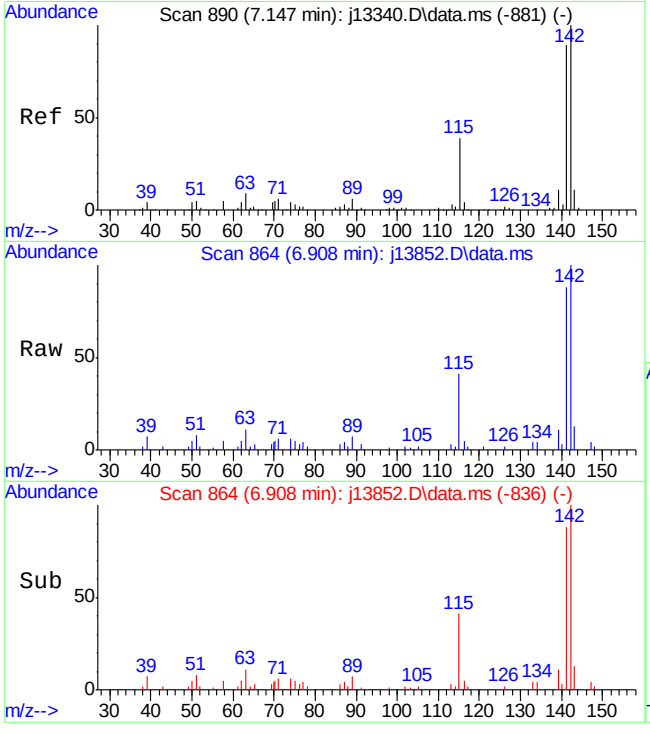


#25
2,4-Dimethylphenol
Concen: 1.66 ug/ml
RT: 5.614 min Scan# 622
Delta R.T. -0.005 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:122 Resp: 21575

Ion	Ratio	Lower	Upper
122	100		
107	116.4	96.3	136.3

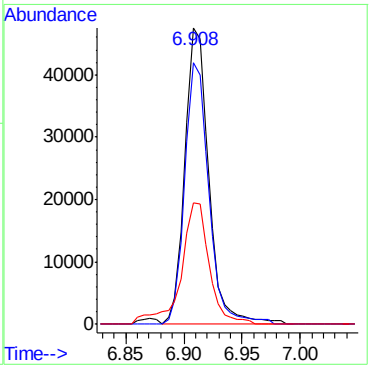


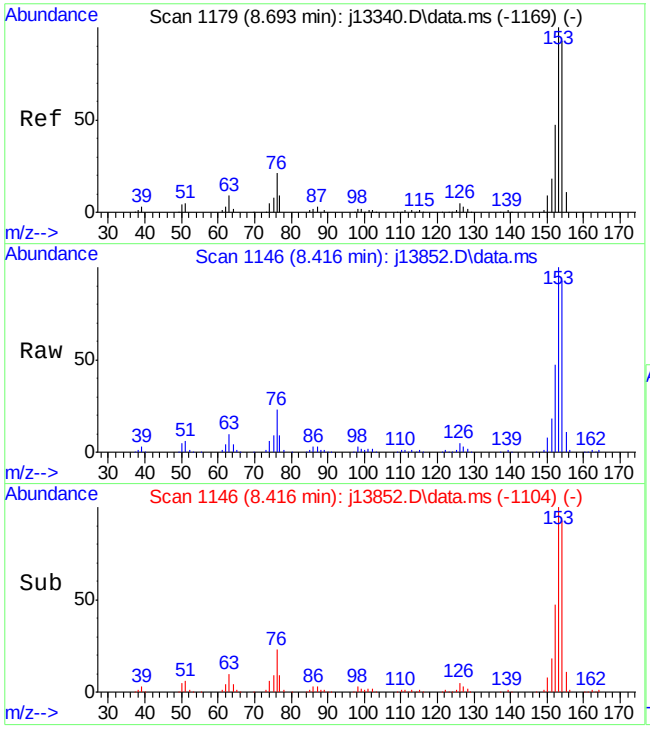


#35
1-Methylnaphthalene
Concen: 2.34 ug/ml
RT: 6.908 min Scan# 864
Delta R.T. -0.048 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:142 Resp: 67515

Ion	Ratio	Lower	Upper
142	100		
141	88.7	69.4	109.4
115	48.0	18.9	58.9

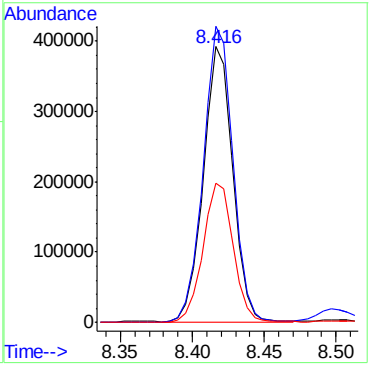


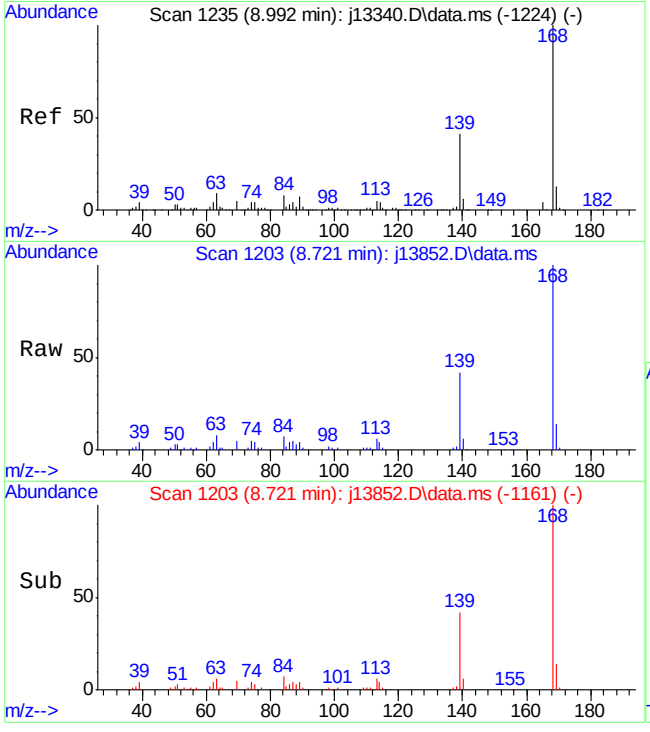


#47
Acenaphthene
Concen: 22.02 ug/ml
RT: 8.416 min Scan# 1146
Delta R.T. -0.277 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:154 Resp: 555323

Ion	Ratio	Lower	Upper
154	100		
153	108.5	87.9	127.9
152	52.1	31.3	71.3

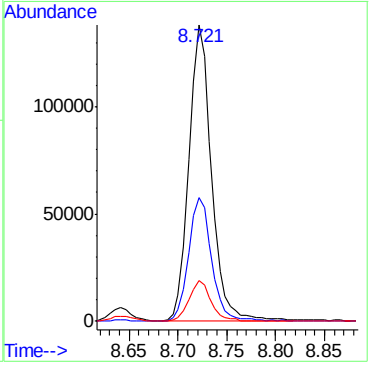


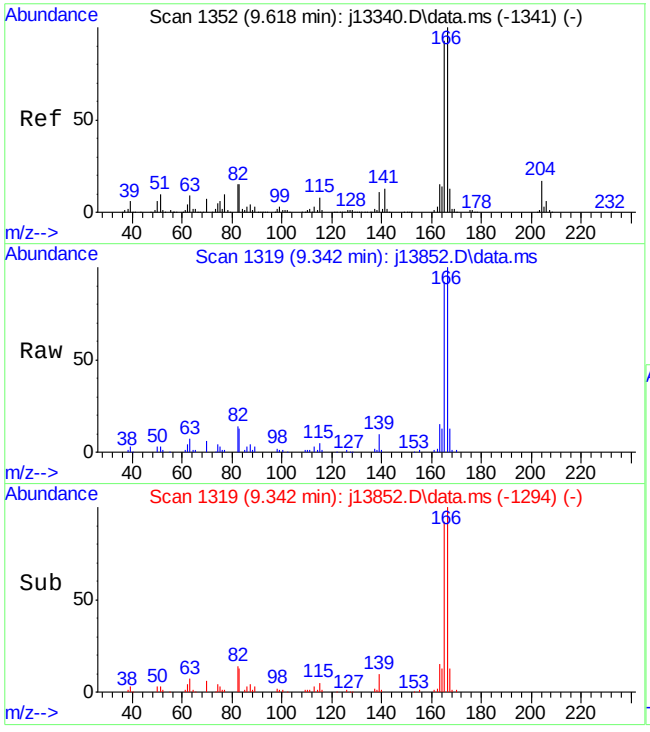


#50
Dibenzofuran
Concen: 6.18 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:168 Resp: 222472

Ion	Ratio	Lower	Upper
168	100		
139	42.2	21.2	61.2
169	13.1	0.0	33.2

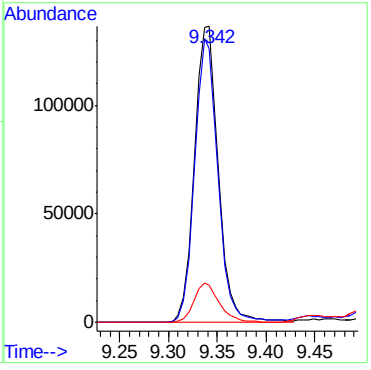


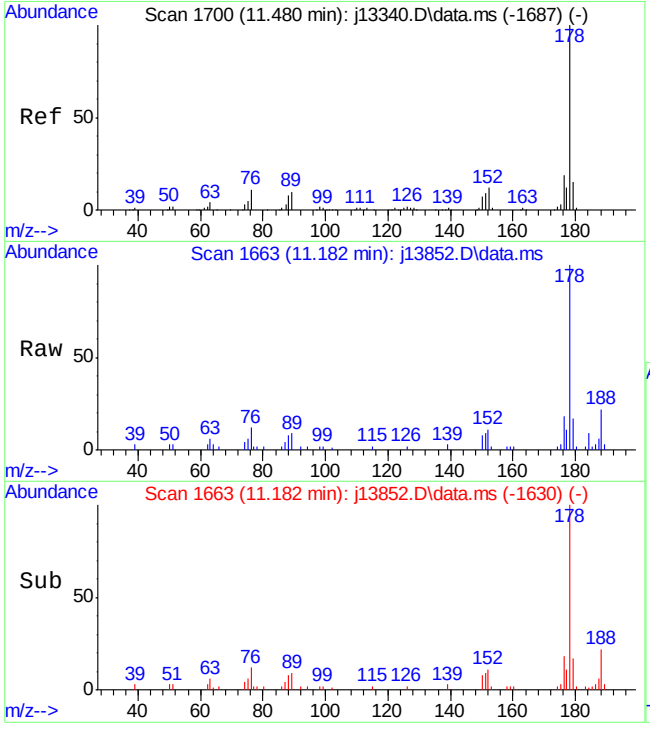


#54
Fluorene
Concen: 7.38 ug/ml
RT: 9.342 min Scan# 1319
Delta R.T. -0.064 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:166 Resp: 231614

Ion	Ratio	Lower	Upper
166	100		
165	92.8	73.8	113.8
167	14.0	0.0	33.3

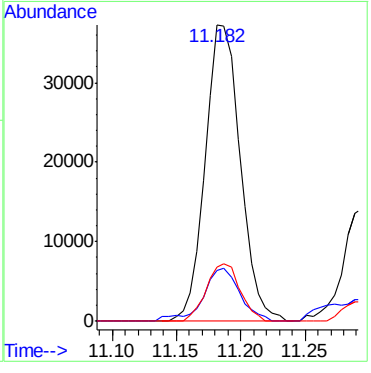


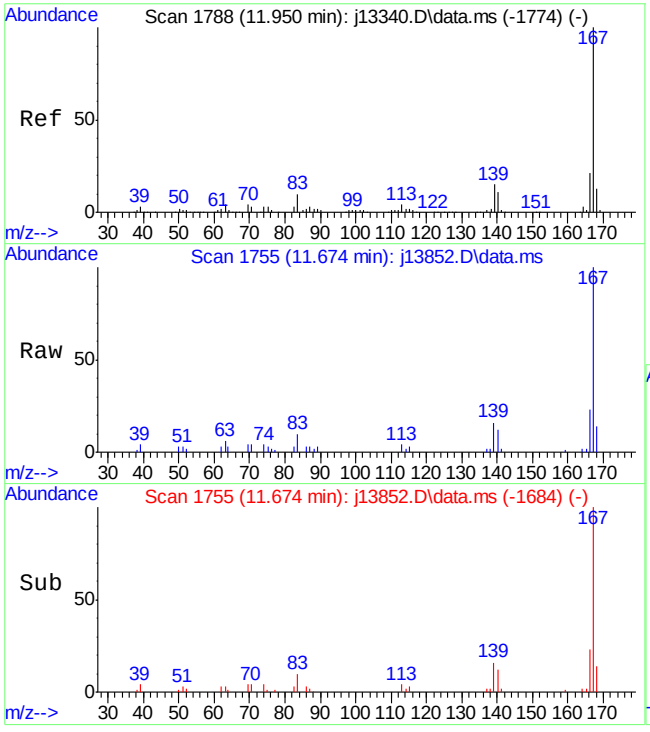


#66
Phenanthrene
Concen: 2.11 ug/ml
RT: 11.182 min Scan# 1663
Delta R.T. -0.021 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:178 Resp: 70361

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	35.2
176	0.0	0.0	39.3

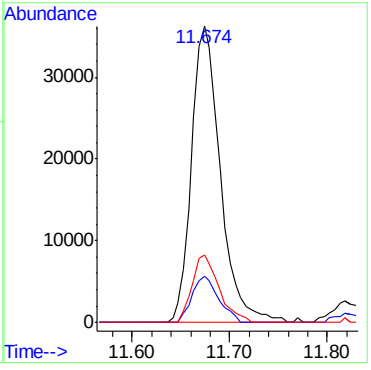


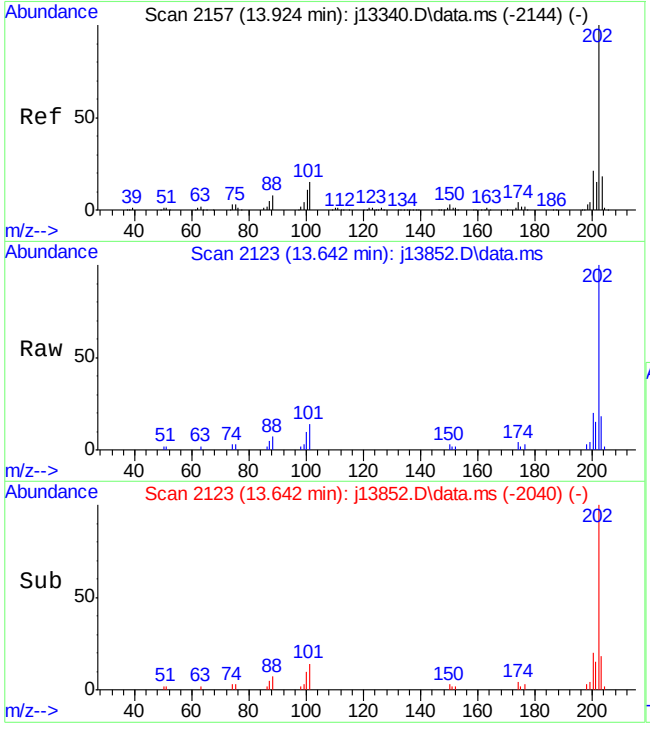


#68
Carbazole
Concen: 2.87 ug/ml
RT: 11.674 min Scan# 1755
Delta R.T. -0.120 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:167 Resp: 74350

Ion	Ratio	Lower	Upper
167	100		
139	0.0	0.0	34.1
166	0.0	0.9	40.9#

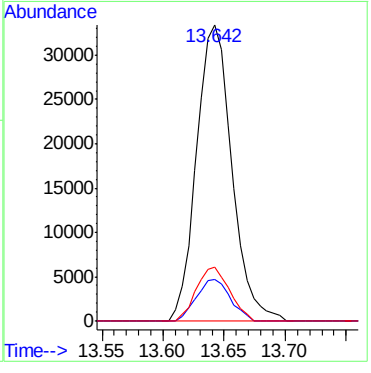


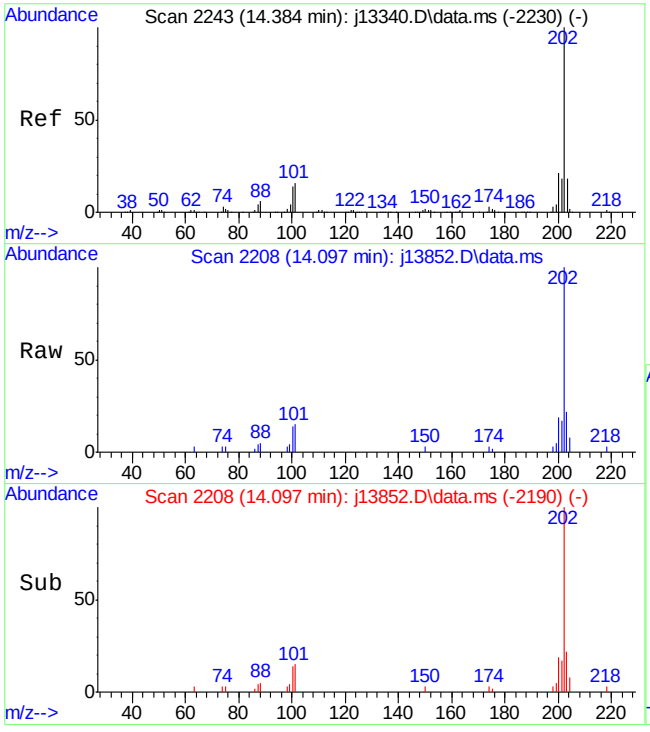


#70
Fluoranthene
Concen: 2.21 ug/ml
RT: 13.642 min Scan# 2123
Delta R.T. -0.059 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:202 Resp: 66887

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	33.9
203	0.0	0.0	37.3

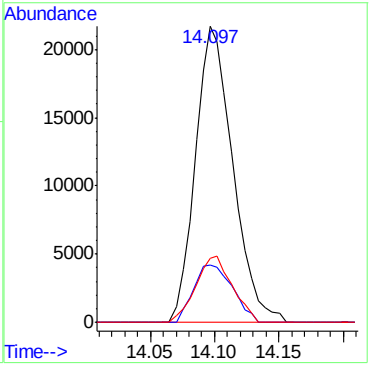




#73
Pyrene
Concen: 1.65 ug/ml
RT: 14.097 min Scan# 2208
Delta R.T. -0.104 min
Lab File: j13852.D
Acq: 15 Oct 2009 6:17 pm

Tgt Ion:202 Resp: 43901

Ion	Ratio	Lower	Upper
202	100		
200	0.0	0.5	40.5#
203	0.0	0.0	37.8



8.1.27

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 16 14:52:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

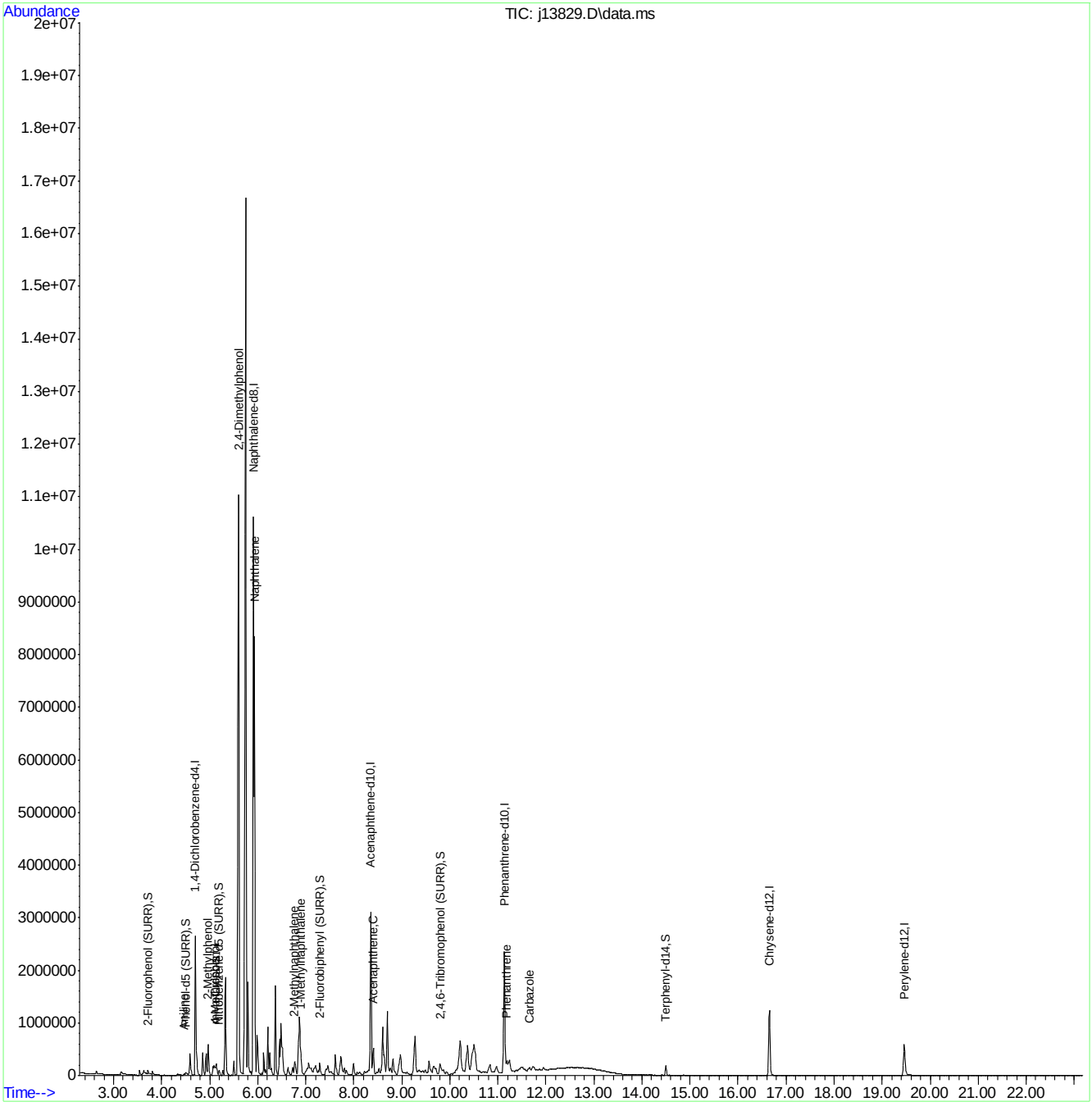
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	485404	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.913	136	2038546	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.357	164	996676	40.00	ug/ml	-0.06
57) Phenanthrene-d10	11.139	188	1400370	40.00	ug/ml	-0.06
71) Chrysene-d12	16.653	240	894928	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	521138	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	34481	2.26	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 2.26%#			
5) Phenol-d5 (SURR)	4.501	99	29730	1.56	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 1.56%#			
21) Nitrobenzene-d5 (SURR)	5.196	82	33939	1.59	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 3.18%#			
40) 2-Fluorobiphenyl (SURR)	7.293	172	79460	2.05	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery = 4.10%#			
62) 2,4,6-Tribromophenol (...	9.796	330	31107	6.60	ug/ml	-0.17
Spiked Amount 100.000	Range 32 - 128		Recovery = 6.60%#			
74) Terphenyl-d14	14.498	244	93346	4.37	ug/ml	-0.10
Spiked Amount 50.000	Range 12 - 145		Recovery = 8.74%#			
Target Compounds						Qvalue
7) Aniline	4.464	93	14475	3.23	ug/ml#	41
14) 2-Methylphenol	4.966	108	157252	10.89	ug/ml	98
16) 4-Methylphenol	5.116	108	36854	2.41	ug/ml#	39
17) m+p-Cresols	5.116	108	36854	2.41	ug/ml#	39
25) 2,4-Dimethylphenol	5.608	122	3689796	231.13	ug/ml	99
30) Naphthalene	5.940	128	4418600	79.58	ug/ml	99
34) 2-Methylnaphthalene	6.769	142	78163	2.30	ug/ml	97
35) 1-Methylnaphthalene	6.903	142	96500	2.72	ug/ml	92
47) Acenaphthene	8.406	154	140894	5.08	ug/ml	100
66) Phenanthrene	11.176	178	38273	0.92	ug/ml#	61
68) Carbazole	11.663	167	38575	1.19	ug/ml#	59

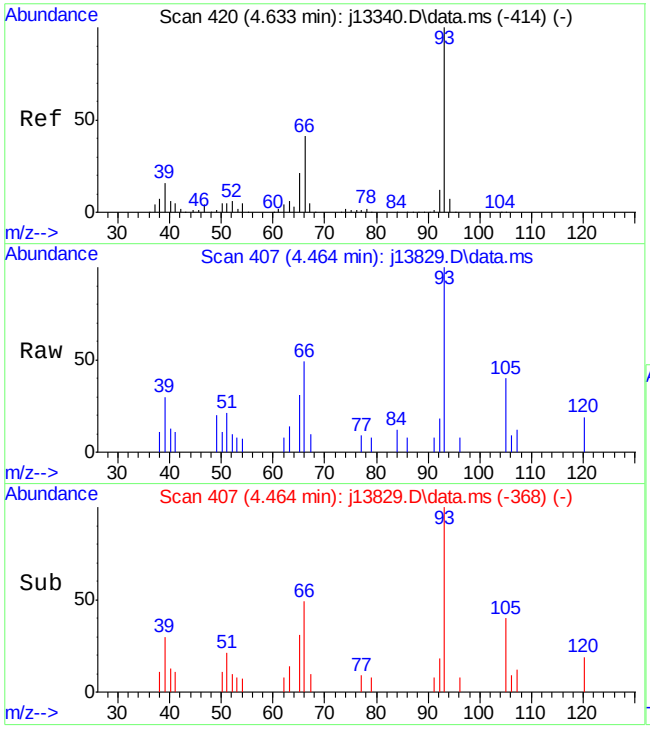
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 16 14:52:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

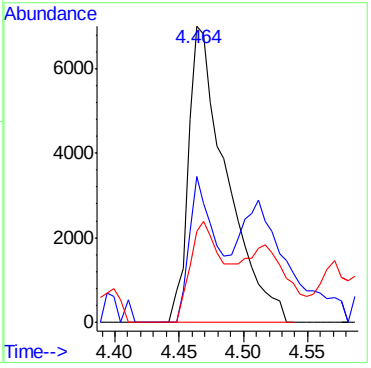


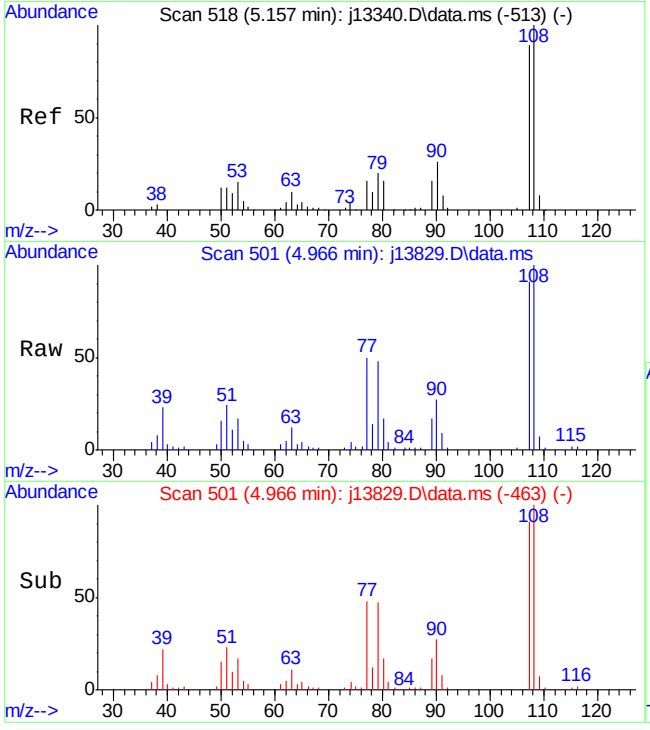


#7
Aniline
Concen: 3.23 ug/ml
RT: 4.464 min Scan# 407
Delta R.T. 0.009 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion: 93 Resp: 14475

Ion	Ratio	Lower	Upper
93	100		
66	0.0	21.2	61.2#
65	0.0	2.0	42.0#

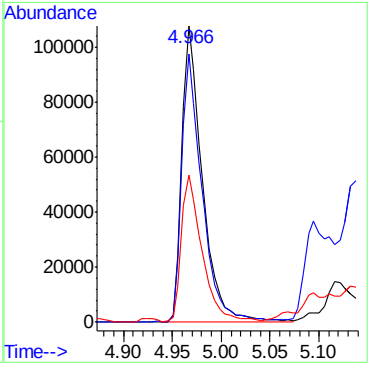


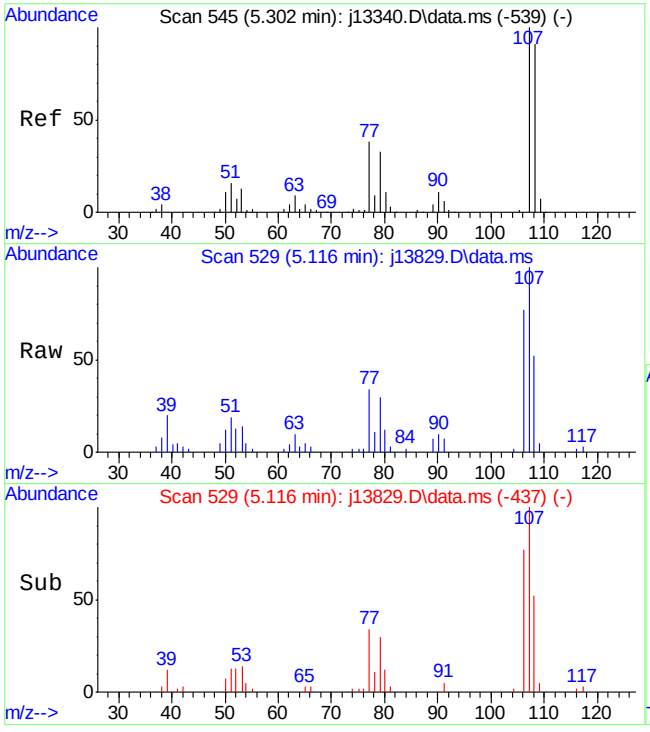


#14
2-Methylphenol
Concen: 10.89 ug/ml
RT: 4.966 min Scan# 501
Delta R.T. 0.005 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:108 Resp: 157252

Ion	Ratio	Lower	Upper
108	100		
107	90.5	68.3	108.3
77	50.3	30.8	70.8

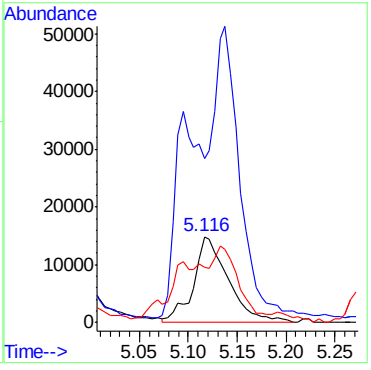


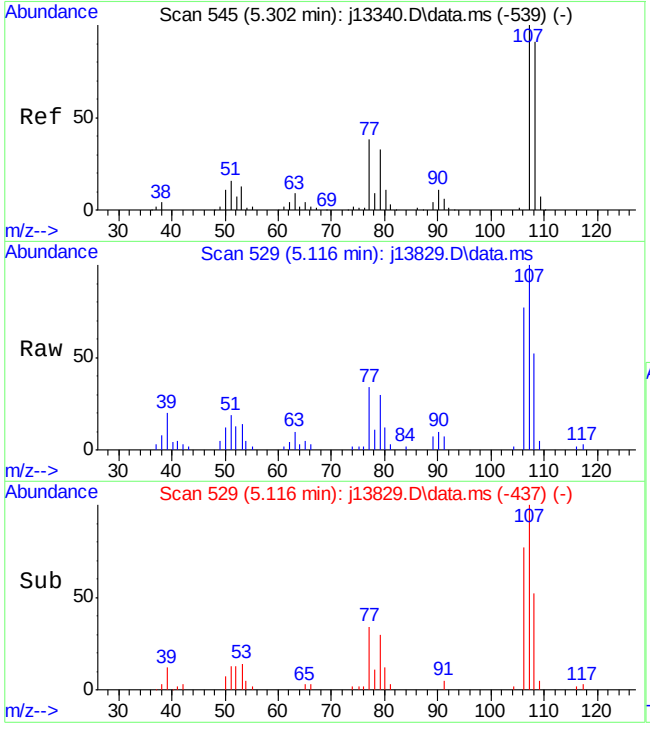


#16
4-Methylphenol
Concen: 2.41 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.006 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:108 Resp: 36854

Ion	Ratio	Lower	Upper
108	100		
107	265.2	139.5	179.5#
77	52.6	36.8	76.8

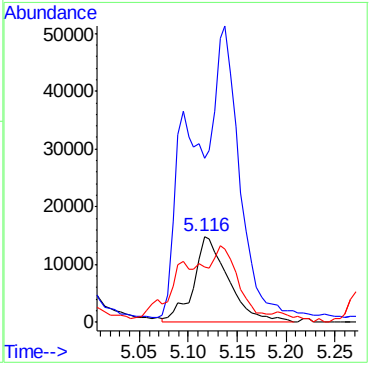


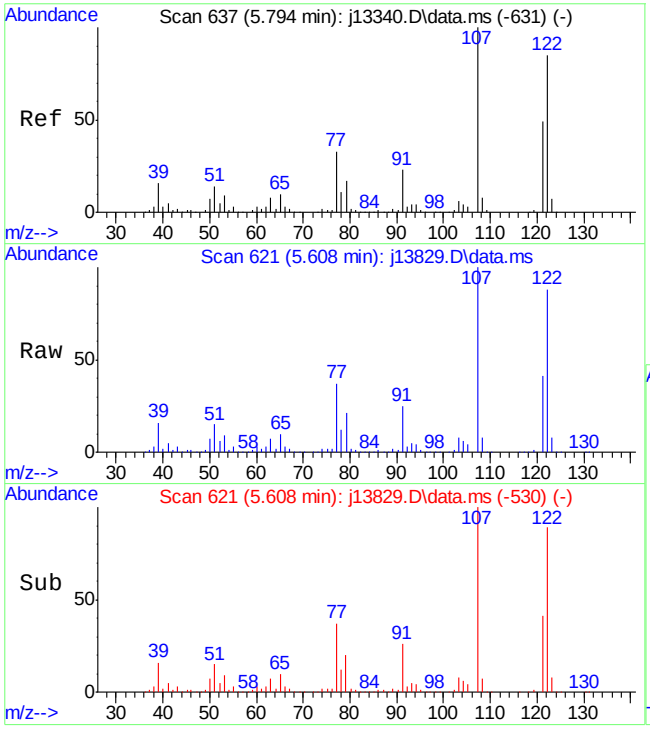


#17
m+p-Cresols
Concen: 2.41 ug/ml
RT: 5.116 min Scan# 529
Delta R.T. -0.006 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:108 Resp: 36854

Ion	Ratio	Lower	Upper
108	100		
107	265.2	139.5	179.5#
77	52.6	36.8	76.8

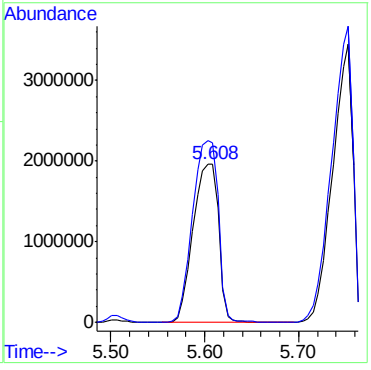


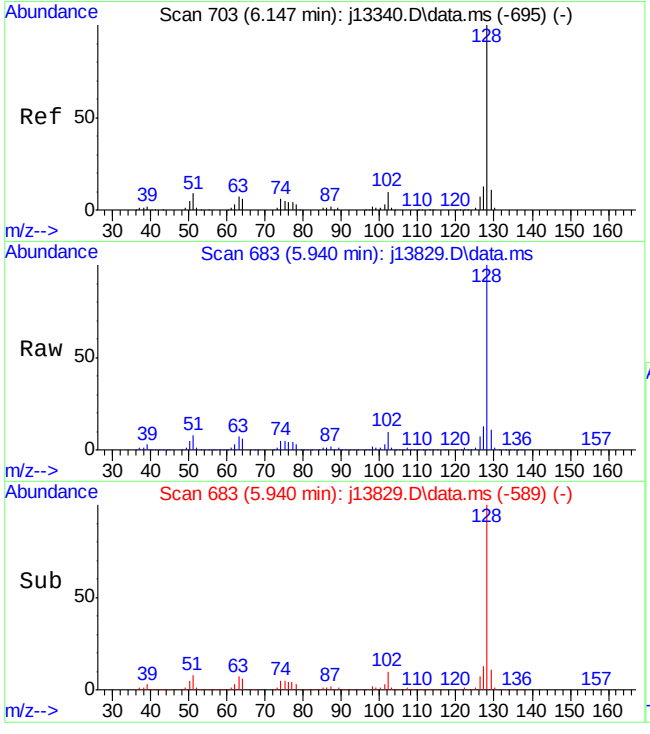


#25
2,4-Dimethylphenol
Concen: 231.13 ug/ml
RT: 5.608 min Scan# 621
Delta R.T. -0.011 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:122 Resp: 3689796

Ion	Ratio	Lower	Upper
122	100		
107	115.6	96.3	136.3

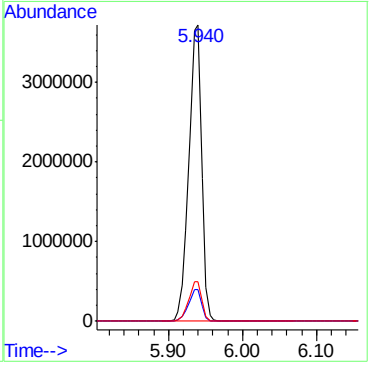


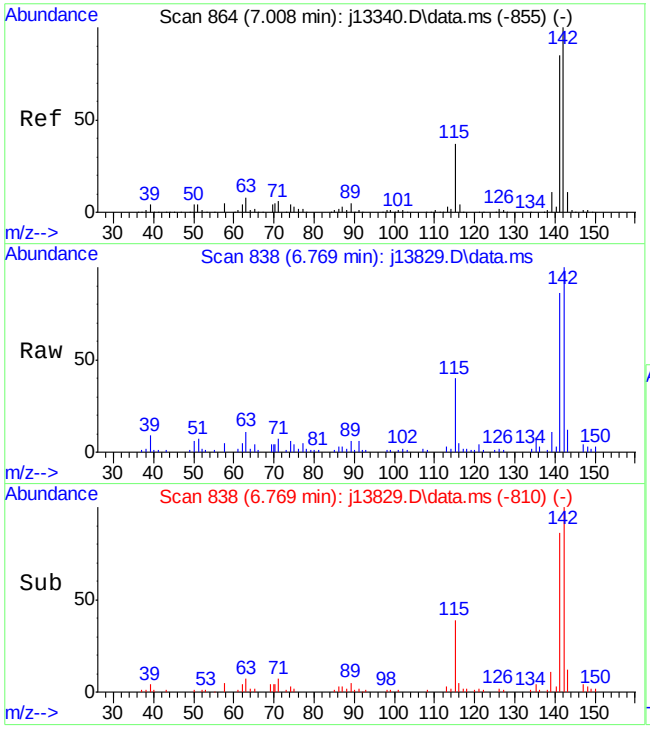


#30
Naphthalene
Concen: 79.58 ug/ml
RT: 5.940 min Scan# 683
Delta R.T. 0.005 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:128 Resp: 4418600

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.4	0.0	33.8

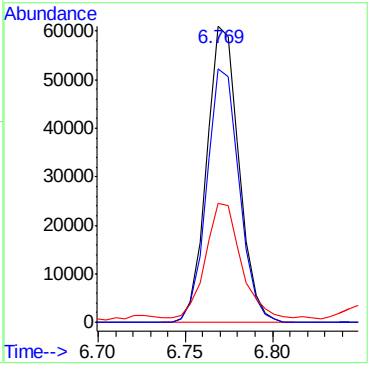


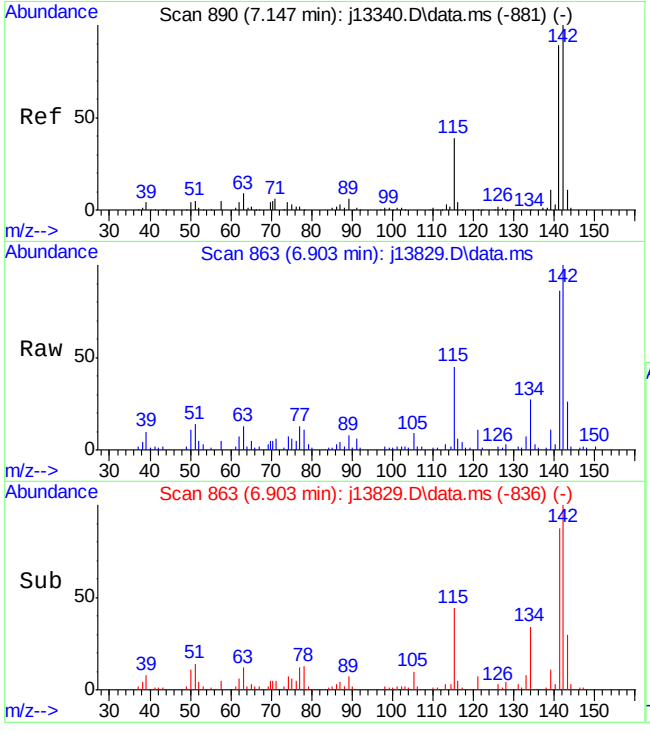


#34
2-Methylnaphthalene
Concen: 2.30 ug/ml
RT: 6.769 min Scan# 838
Delta R.T. -0.048 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:142 Resp: 78163

Ion	Ratio	Lower	Upper
142	100		
141	86.4	66.2	106.2
115	44.0	17.8	57.8

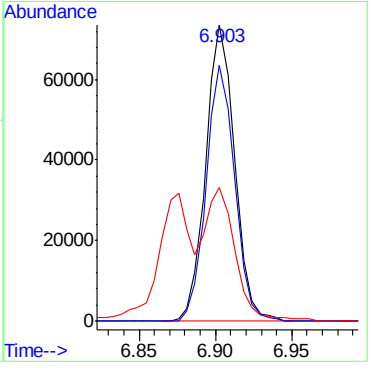




#35
1-Methylnaphthalene
Concen: 2.72 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:142 Resp: 96500

Ion	Ratio	Lower	Upper
142	100		
141	85.2	69.4	109.4
115	47.8	18.9	58.9



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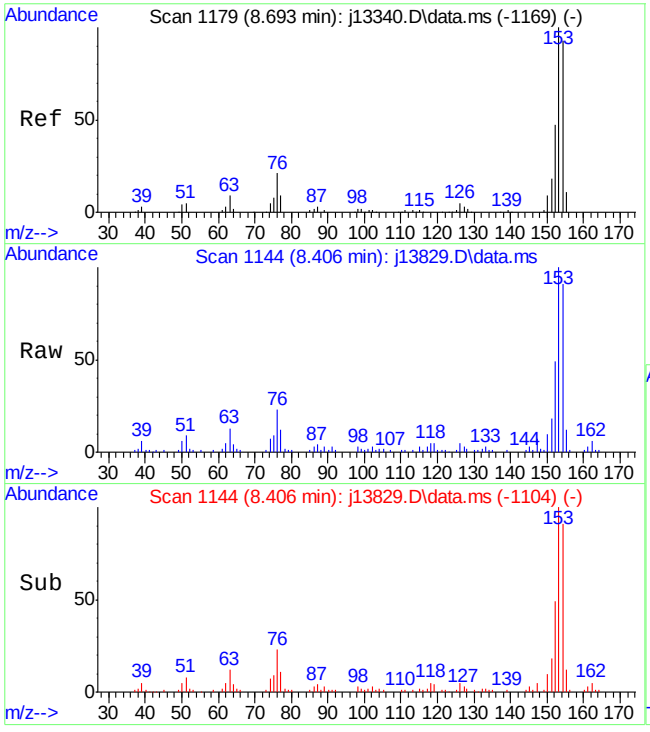
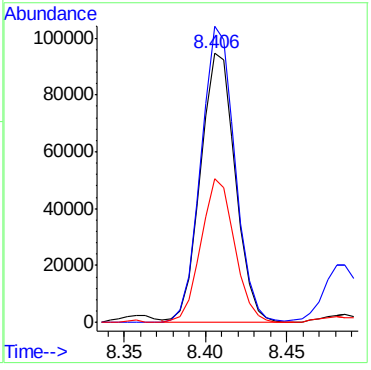
8

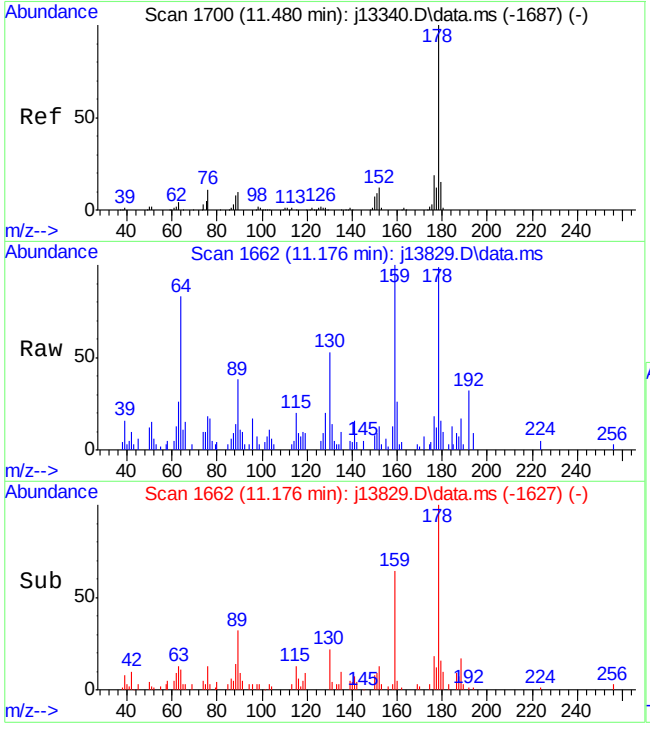


#47
Acenaphthene
Concen: 5.08 ug/ml
RT: 8.406 min Scan# 1144
Delta R.T. -0.288 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:154 Resp: 140894

Ion	Ratio	Lower	Upper
154	100		
153	107.4	87.9	127.9
152	51.5	31.3	71.3

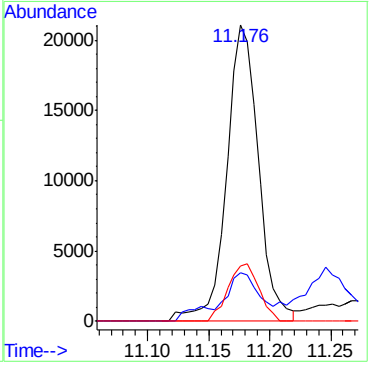


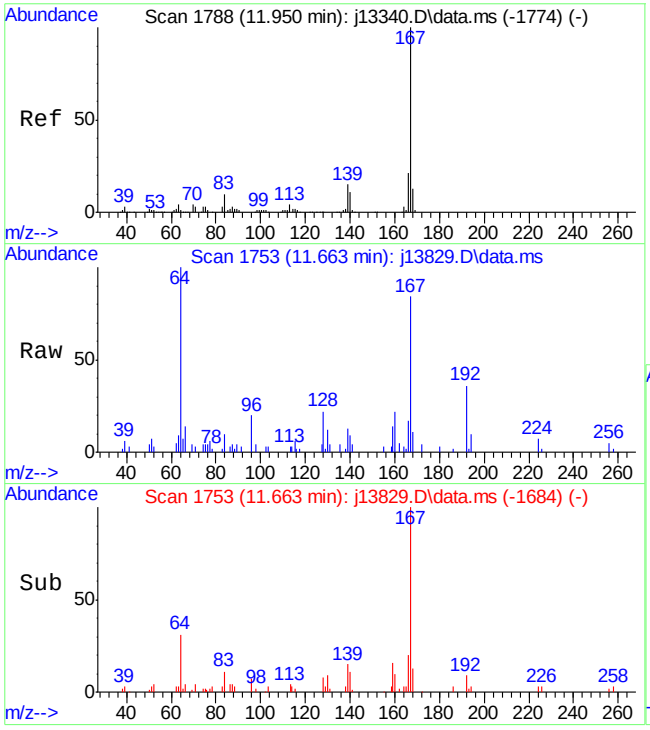


#66
Phenanthrene
Concen: 0.92 ug/ml
RT: 11.176 min Scan# 1662
Delta R.T. -0.011 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:178 Resp: 38273

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	35.2
176	0.0	0.0	38.8

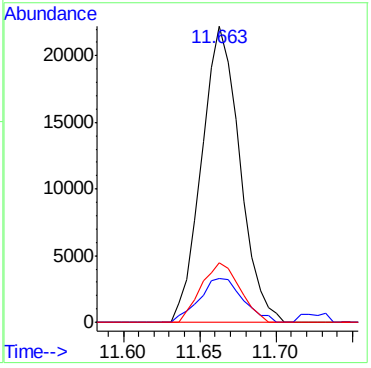




#68
Carbazole
Concen: 1.19 ug/ml
RT: 11.663 min Scan# 1753
Delta R.T. -0.130 min
Lab File: j13829.D
Acq: 14 Oct 2009 9:32 pm

Tgt Ion:167 Resp: 38575

Ion	Ratio	Lower	Upper
167	100		
139	0.0	0.0	34.1
166	0.0	0.9	40.9#



8.1.28

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13829.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.592	428	431	442	rVB	412985	520861	2.00%	0.431%
2	4.699	447	451	469	rVB	2643542	3330878	12.76%	2.759%
3	4.854	476	480	489	rBV	438218	525649	2.01%	0.435%
4	4.924	489	493	498	rBV	411118	502291	1.92%	0.416%
5	4.966	498	501	515	rVB	595285	849601	3.25%	0.704%
6	5.138	530	533	540	rVB2	195284	321939	1.23%	0.267%
7	5.325	563	568	583	rVB	1870492	2407784	9.22%	1.995%
8	5.501	595	601	608	rBV	277147	335262	1.28%	0.278%
9	5.608	608	621	633	rBV2	11027779	21036521	80.59%	17.427%
10	5.753	637	648	651	rBV	16649704	26101761	100.00%	21.623%
11	5.795	651	656	665	rVB	1718546	2217013	8.49%	1.837%
12	5.913	671	678	680	rBV	10590833	13051703	50.00%	10.812%
13	5.935	680	682	688	rVV	8328896	8887767	34.05%	7.363%
14	5.988	688	692	707	rVB2	751289	1376363	5.27%	1.140%
15	6.127	714	718	723	rBV	414756	477333	1.83%	0.395%
16	6.213	729	734	738	rBV	893567	1152019	4.41%	0.954%
17	6.250	738	741	745	rVB2	340458	375224	1.44%	0.311%
18	6.368	757	763	772	rBV	1689404	2013465	7.71%	1.668%
19	6.453	774	779	782	rBV	679395	867598	3.32%	0.719%
20	6.485	782	785	789	rBV	655404	799467	3.06%	0.662%
21	6.769	834	838	848	rVB2	238010	473451	1.81%	0.392%
22	6.849	848	853	854	rBV	655095	727082	2.79%	0.602%
23	6.871	854	857	862	rVB	693177	887688	3.40%	0.735%
24	7.031	875	887	889	rBV2	123720	292483	1.12%	0.242%
25	7.293	932	936	945	rVB	224278	349823	1.34%	0.290%
26	7.619	992	997	1007	rVB	379194	649008	2.49%	0.538%
27	7.732	1008	1018	1028	rBV3	351626	965299	3.70%	0.800%
28	7.994	1059	1067	1076	rBV	215941	353801	1.36%	0.293%
29	8.357	1128	1135	1140	rBV	3029244	4430921	16.98%	3.671%
30	8.406	1140	1144	1154	rVB	484191	748612	2.87%	0.620%
31	8.598	1171	1180	1184	rBV	863595	1424757	5.46%	1.180%
32	8.700	1193	1199	1207	rBV	1150368	1907027	7.31%	1.580%
33	8.817	1216	1221	1235	rVB2	288852	596127	2.28%	0.494%
34	8.978	1236	1251	1262	rBV2	376927	1217360	4.66%	1.008%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	9.277	1295	1307	1313	rBV	729147	1796000	6.88%	1.488%
36	9.572	1352	1362	1373	rBV	238209	540020	2.07%	0.447%
37	9.668	1373	1380	1384	rBV2	125632	315229	1.21%	0.261%
38	9.796	1395	1404	1413	rBV4	202006	528027	2.02%	0.437%
39	10.219	1459	1483	1500	rBV	616807	2248378	8.61%	1.863%
40	10.374	1500	1512	1520	rVV2	507297	1466665	5.62%	1.215%
41	10.508	1520	1537	1553	rVB5	514937	2532243	9.70%	2.098%
42	10.839	1587	1599	1607	rBV2	150132	436690	1.67%	0.362%
43	10.973	1616	1624	1638	rVB3	118673	342824	1.31%	0.284%
44	11.139	1646	1655	1660	rBV2	2304463	4121023	15.79%	3.414%
45	14.498	2276	2283	2291	rVB	183528	298957	1.15%	0.248%
46	16.653	2677	2686	2701	rBV	1233400	2492129	9.55%	2.065%
47	19.461	3202	3211	3231	rBV	594374	1418266	5.43%	1.175%

Sum of corrected areas: 120710389

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On    : 14 Oct 2009   9:32 pm
Operator  : sheilac
Sample    : t39646-10,10x
Misc      : op13250,Ej634,1000,,,1,10,water
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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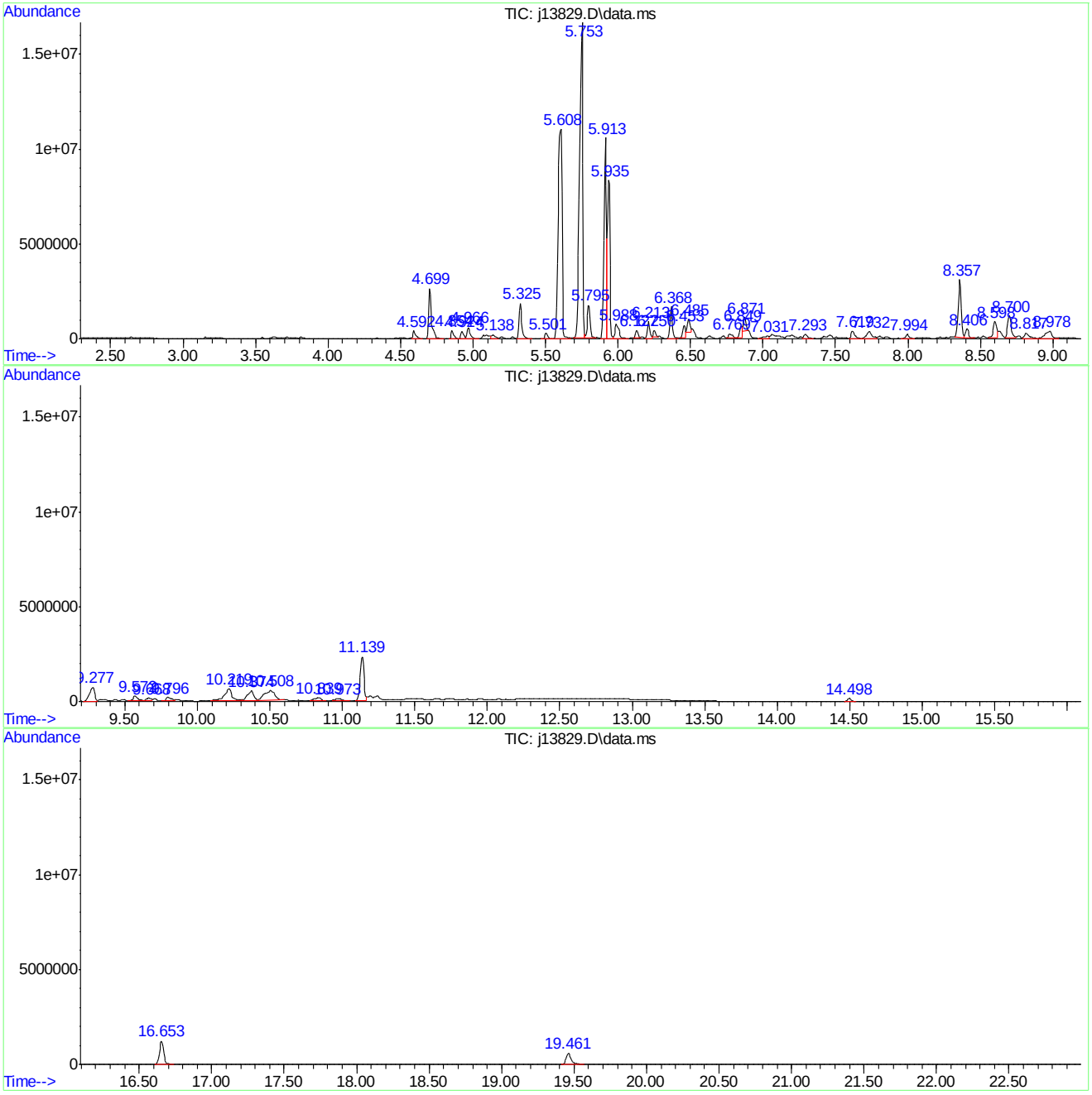


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

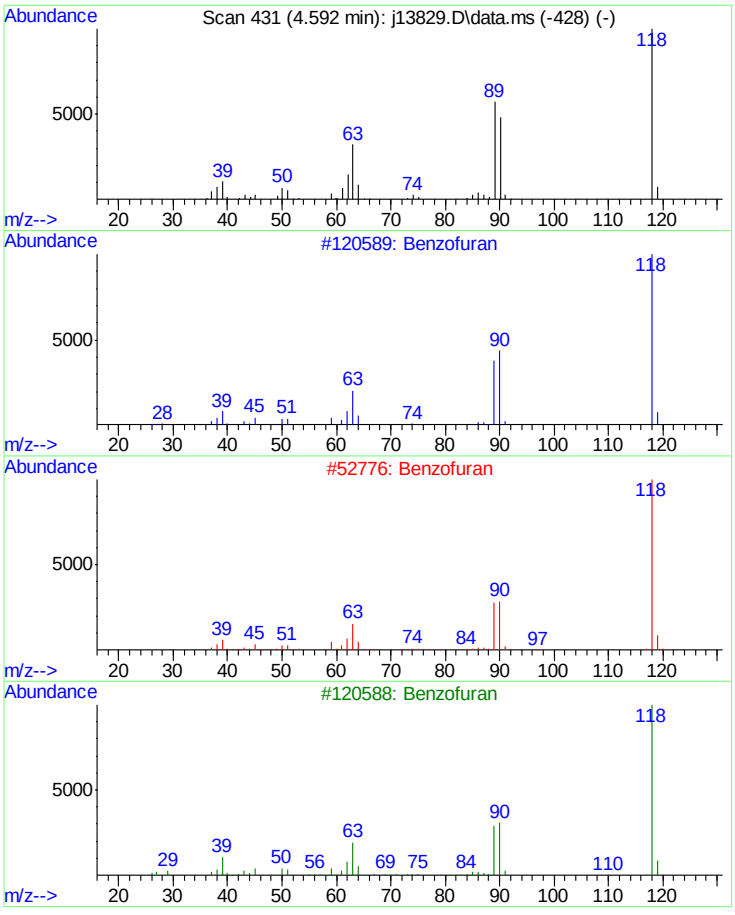
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

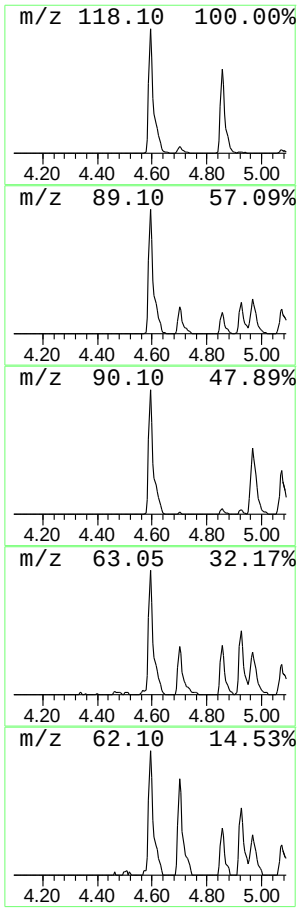
****

Peak Number 1 Benzofuran Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.592	6.25 ug/ml	520861	1,4-Dichlorobenzene-d4	4.699

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	94
2	Benzofuran	118	C8H6O	000271-89-6	94
3	Benzofuran	118	C8H6O	000271-89-6	91
4	Benzofuran	118	C8H6O	000271-89-6	90
5	3-Hydroxyphenylacetylene	118	C8H6O	010401-11-3	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

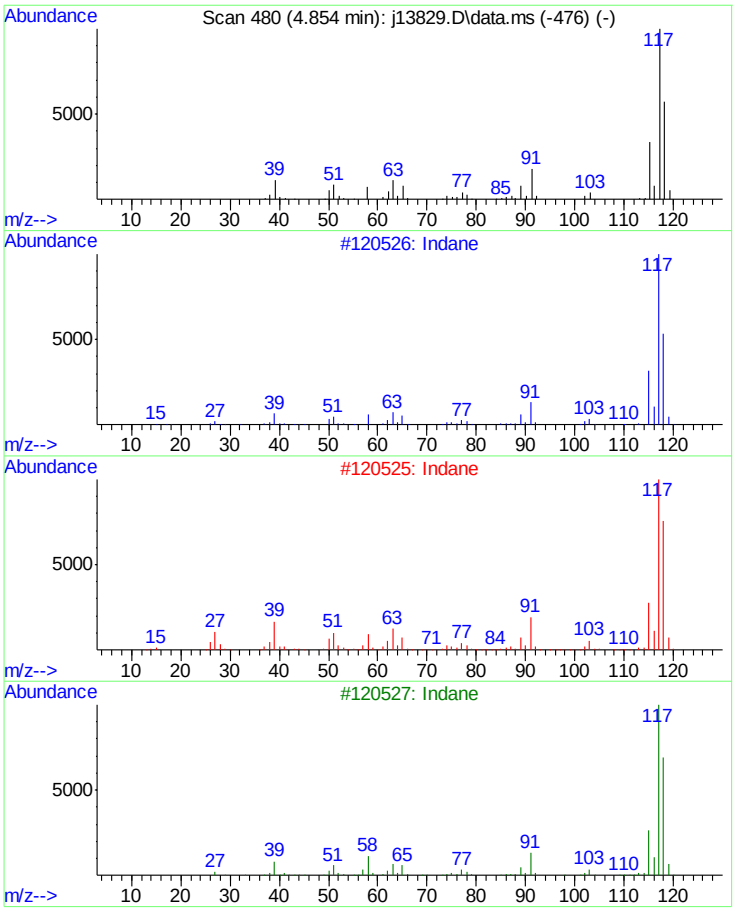
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

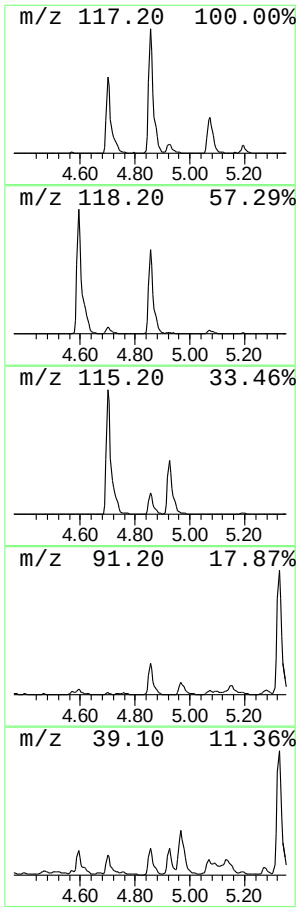
****

Peak Number 2 Indane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.854	6.31 ug/ml	525649	1,4-Dichlorobenzene-d4	4.699

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	90
3	Indane	118	C9H10	000496-11-7	81
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	76





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

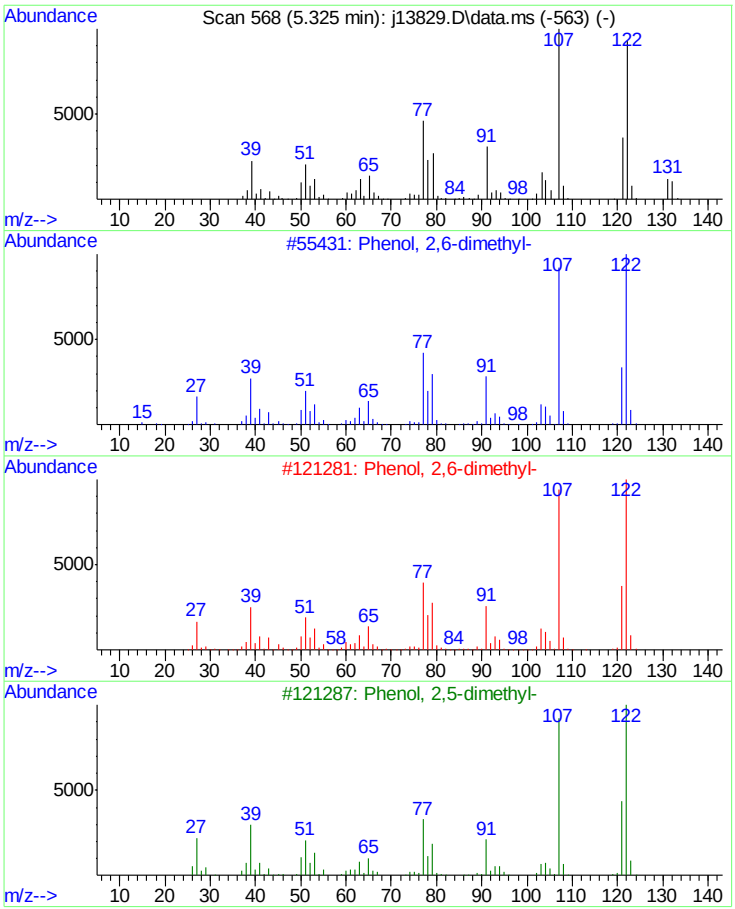
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

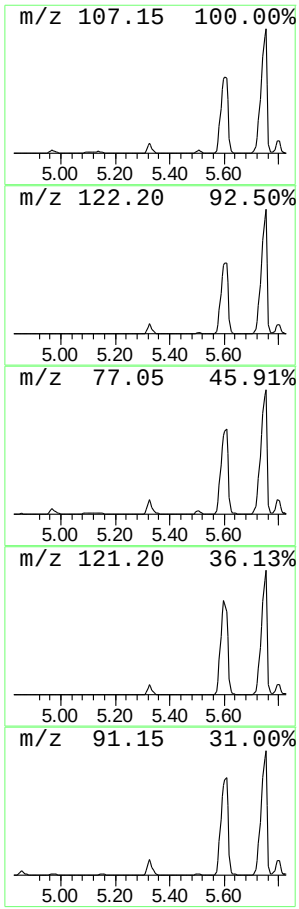
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Phenol, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.325	7.38 ug/ml	2407780	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	97
2	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	95
3	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
4	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	91
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

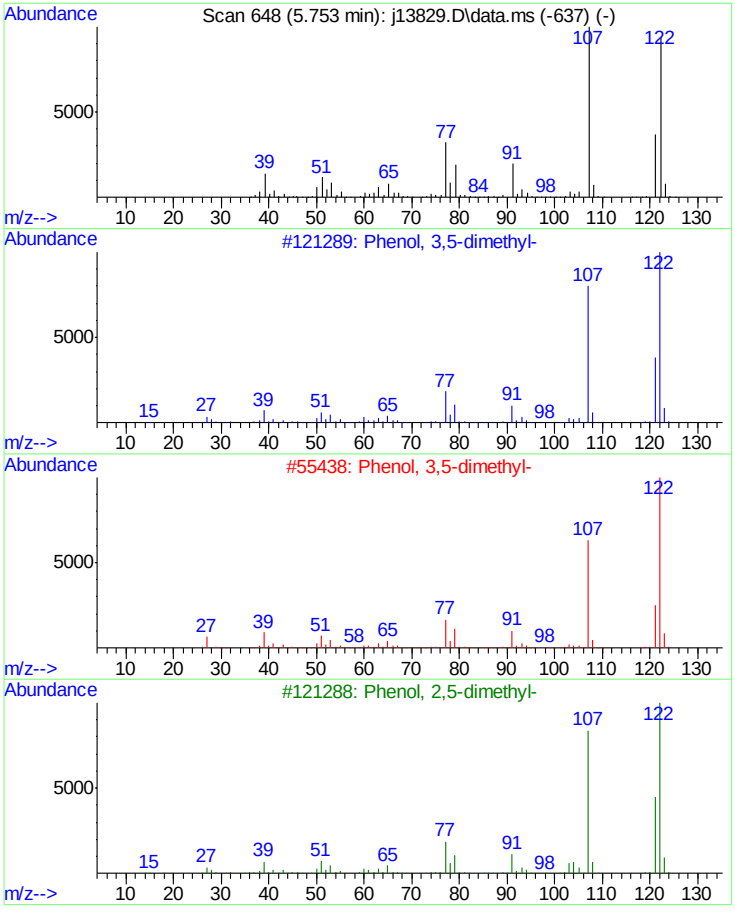
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

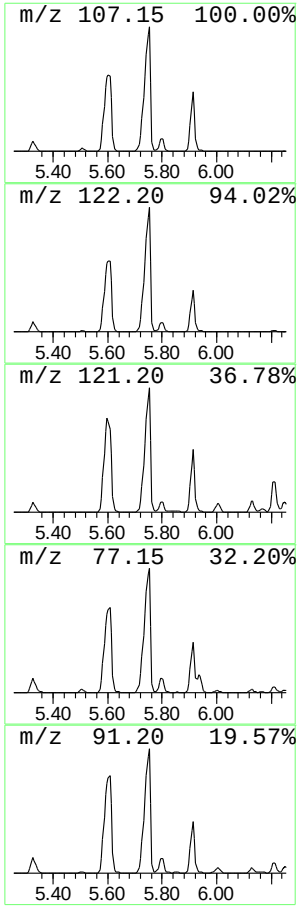
****

Peak Number 4 Phenol, 3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.753	80.00 ug/ml	26101800	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	96
2	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
3	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	93
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	91
5	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

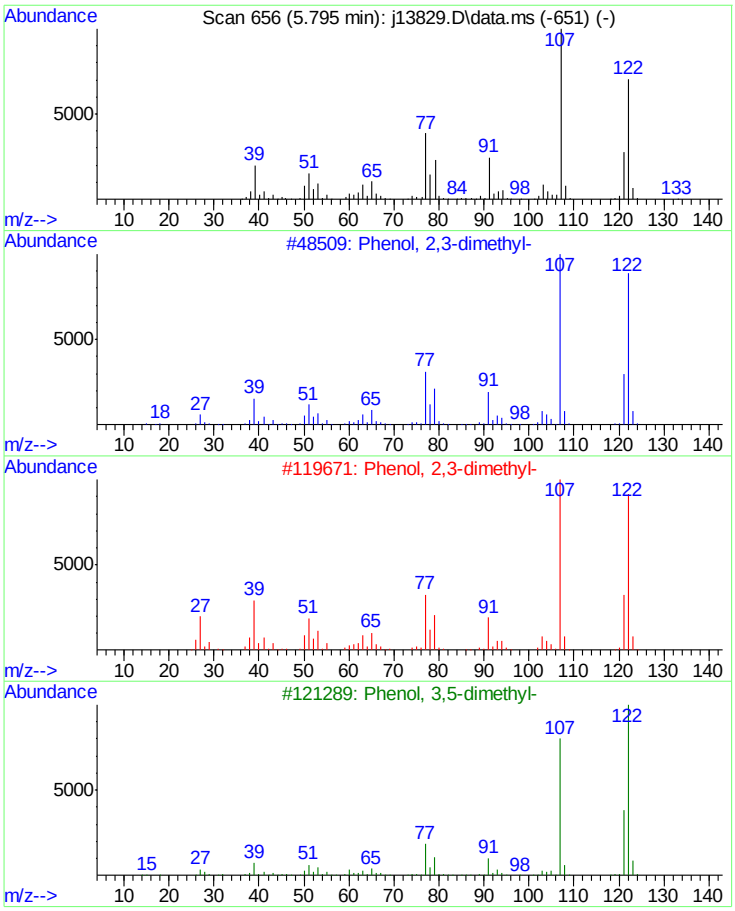
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

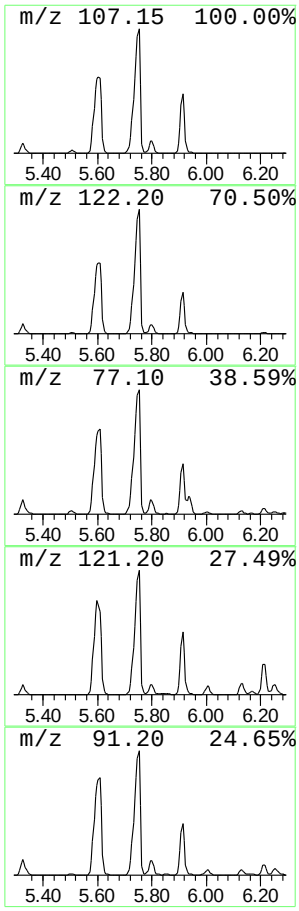
****

Peak Number 5 Phenol, 2,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.795	6.79 ug/ml	2217010	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	95
2	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	95
3	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
4	Phenol, 2,4-dimethyl-	122	C8H10O	000105-67-9	94
5	Phenol, 2,4-dimethyl-	122	C8H10O	000105-67-9	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

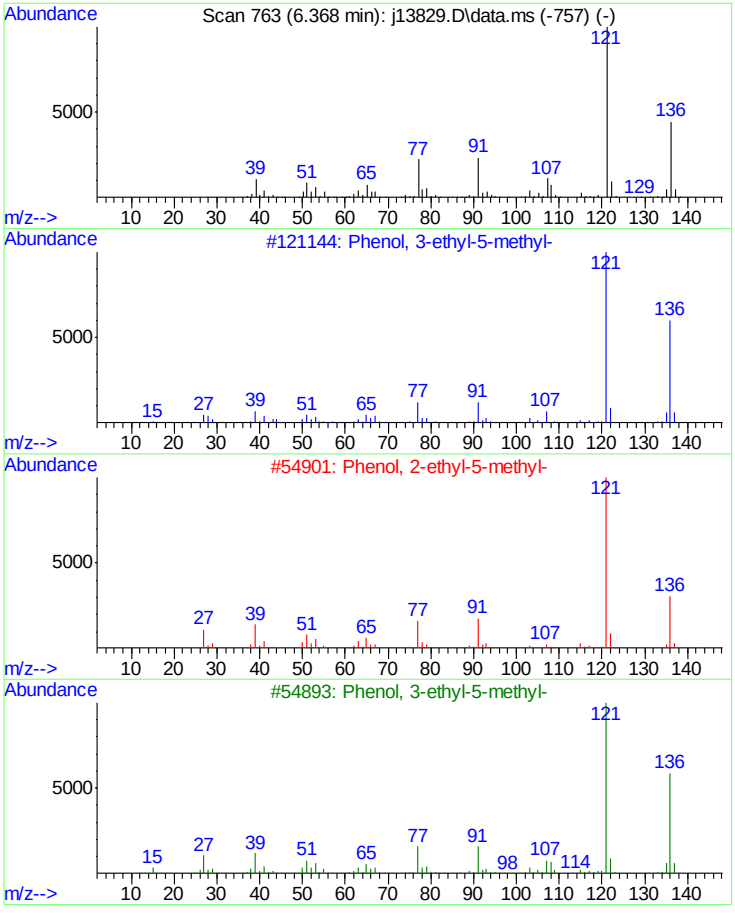
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

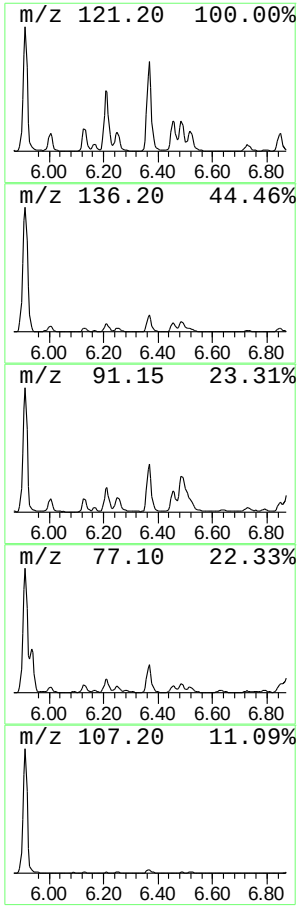
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Phenol, 3-ethyl-5-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.368	6.17 ug/ml	2013470	Naphthalene-d8	5.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3-ethyl-5-methyl-	136	C9H12O	000698-71-5	91
2	Phenol, 2-ethyl-5-methyl-	136	C9H12O	001687-61-2	91
3	Phenol, 3-ethyl-5-methyl-	136	C9H12O	000698-71-5	91
4	Phenol, 2-ethyl-5-methyl-	136	C9H12O	001687-61-2	90
5	Benzene, 1-ethyl-4-methoxy-	136	C9H12O	001515-95-3	86





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On    : 14 Oct 2009   9:32 pm
Operator  : sheilac
Sample    : t39646-10,10x
Misc      : op13250,Ej634,1000,,,1,10,water
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

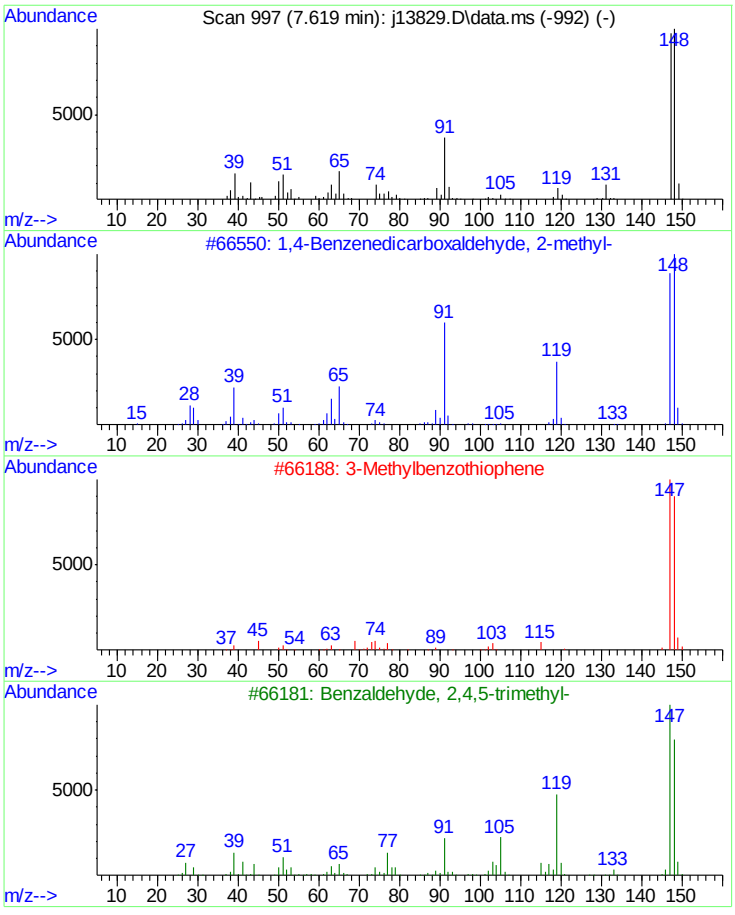
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

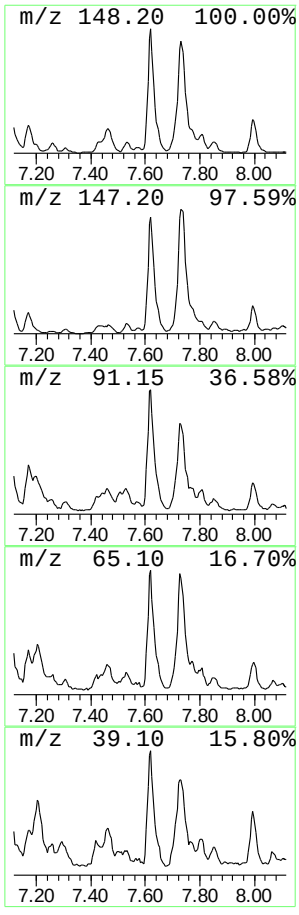
****

Peak Number 7 1,4-Benzenedicarboxaldehyde... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.619	5.86 ug/ml	649008	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxaldehyde, 2-m...	148	C9H8O2	027587-17-3	80
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	72
3	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	64
4	Pyrrole-2-carbonitrile, 5-formyl...	148	C8H8N2O	026187-38-2	64
5	3-Methylbenzothiophene	148	C9H8S	001455-18-1	59





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On    : 14 Oct 2009   9:32 pm
Operator  : sheilac
Sample    : t39646-10,10x
Misc      : op13250,Ej634,1000,,,1,10,water
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

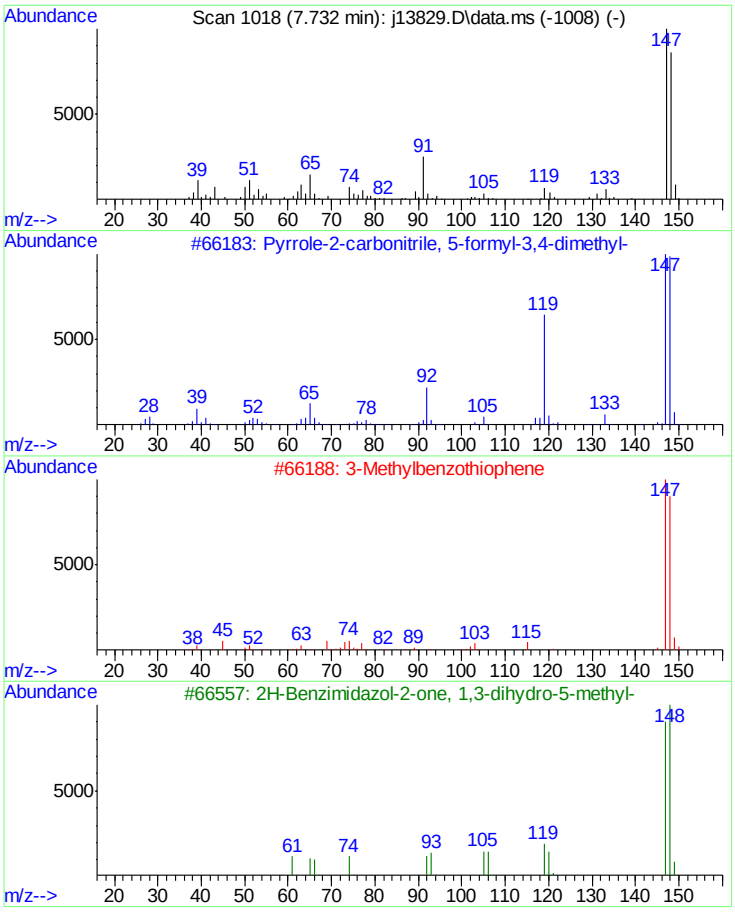
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

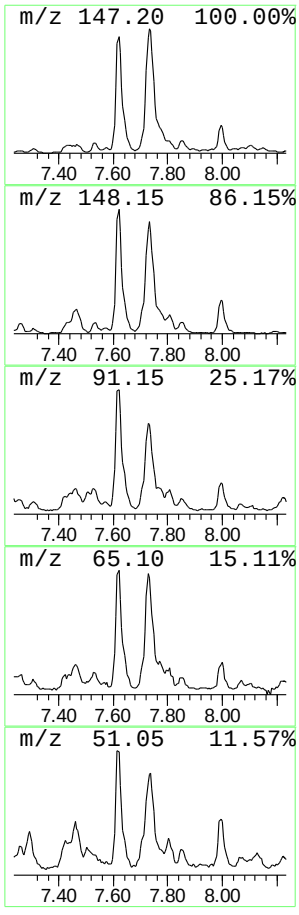
****

Peak Number 8 Pyrrole-2-carbonitrile, 5-f... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.732	8.71 ug/ml	965299	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrrole-2-carbonitrile, 5-formyl...	148	C8H8N2O	026187-38-2	86
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	72
3	2H-Benzimidazol-2-one, 1,3-dihyd...	148	C8H8N2O	005400-75-9	56
4	1,4-Benzenedicarboxaldehyde, 2-m...	148	C9H8O2	027587-17-3	52
5	3-Methylbenzothiophene	148	C9H8S	001455-18-1	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

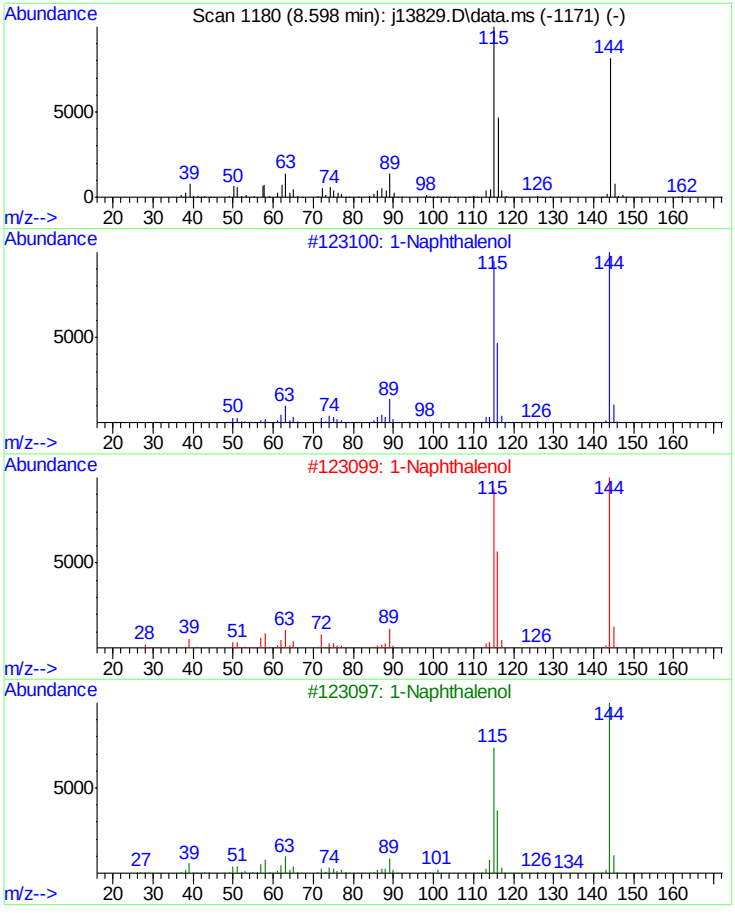
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

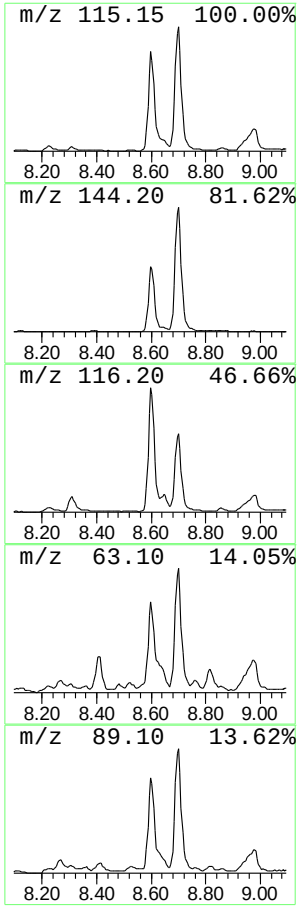
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 1-Naphthalenol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.598	12.86 ug/ml	1424760	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol	144	C10H8O	000090-15-3	96
2	1-Naphthalenol	144	C10H8O	000090-15-3	94
3	1-Naphthalenol	144	C10H8O	000090-15-3	94
4	2-Naphthalenol	144	C10H8O	000135-19-3	94
5	2-Naphthalenol	144	C10H8O	000135-19-3	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

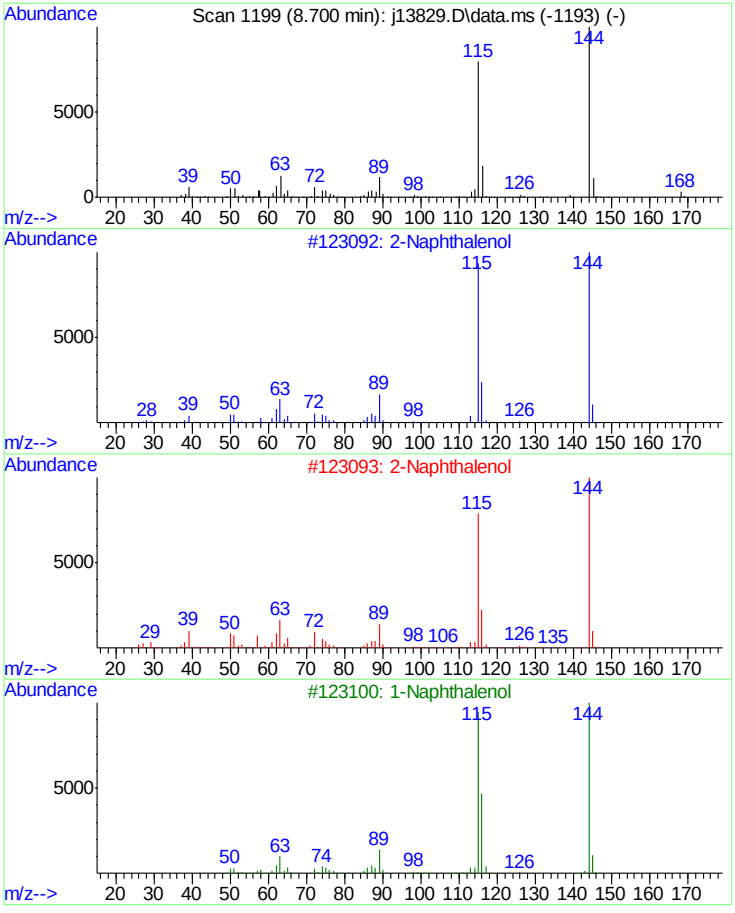
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

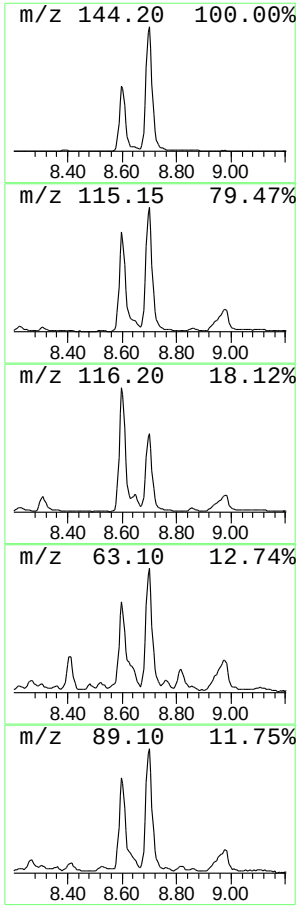
****

Peak Number 10 2-Naphthalenol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.700	17.22 ug/ml	1907030	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenol	144	C10H8O	000135-19-3	96
2	2-Naphthalenol	144	C10H8O	000135-19-3	95
3	1-Naphthalenol	144	C10H8O	000090-15-3	93
4	Furan, 3-phenyl-	144	C10H8O	013679-41-9	91
5	2-Naphthalenol	144	C10H8O	000135-19-3	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

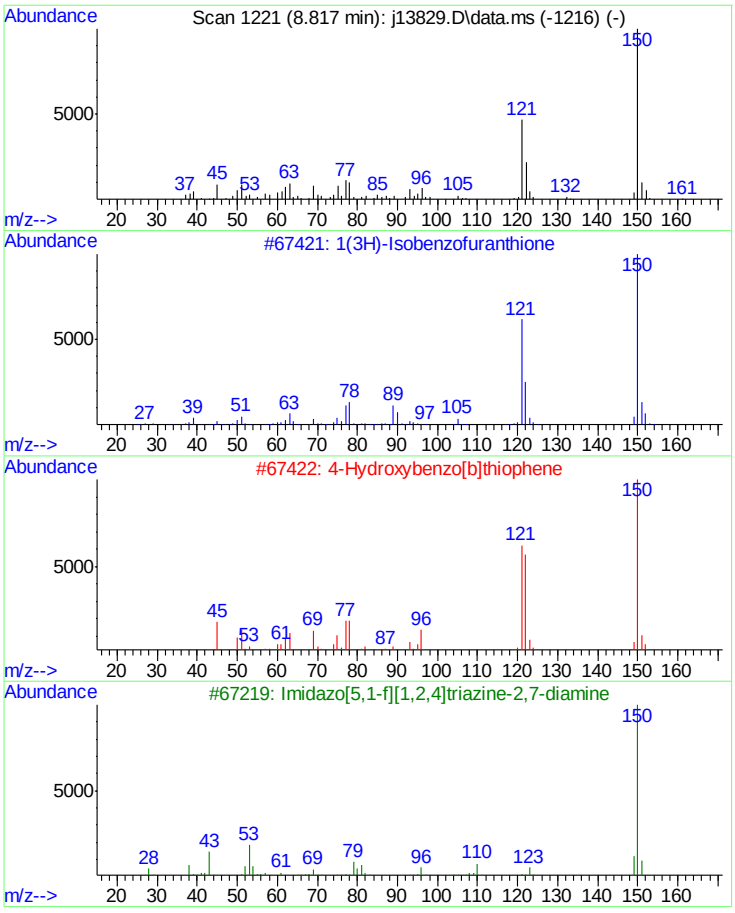
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

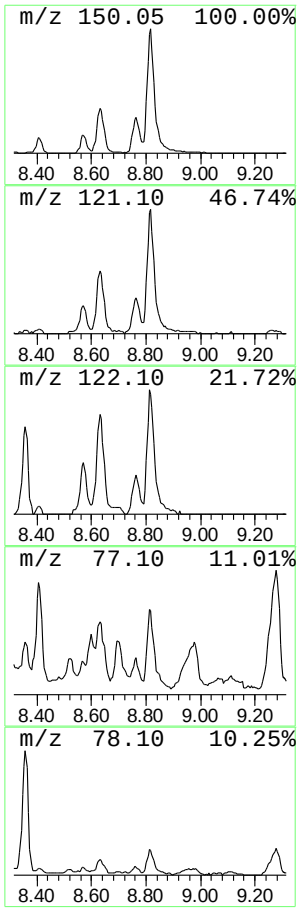
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 1(3H)-Isobenzofuranthione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.817	5.38 ug/ml	596127	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(3H)-Isobenzofuranthione	150	C8H6OS	004741-68-8	90
2	4-Hydroxybenzo[b]thiophene	150	C8H6OS	003610-02-4	53
3	Imidazo[5,1-f][1,2,4]triazine-2,...	150	C5H6N6	051292-20-7	42
4	[1,2,4]Triazolo[1,5-a]pyrimidin-...	150	C6H6N4O	002503-56-2	39
5	Benzene, 1,2,3,4-tetrafluoro-	150	C6H2F4	000551-62-2	37





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

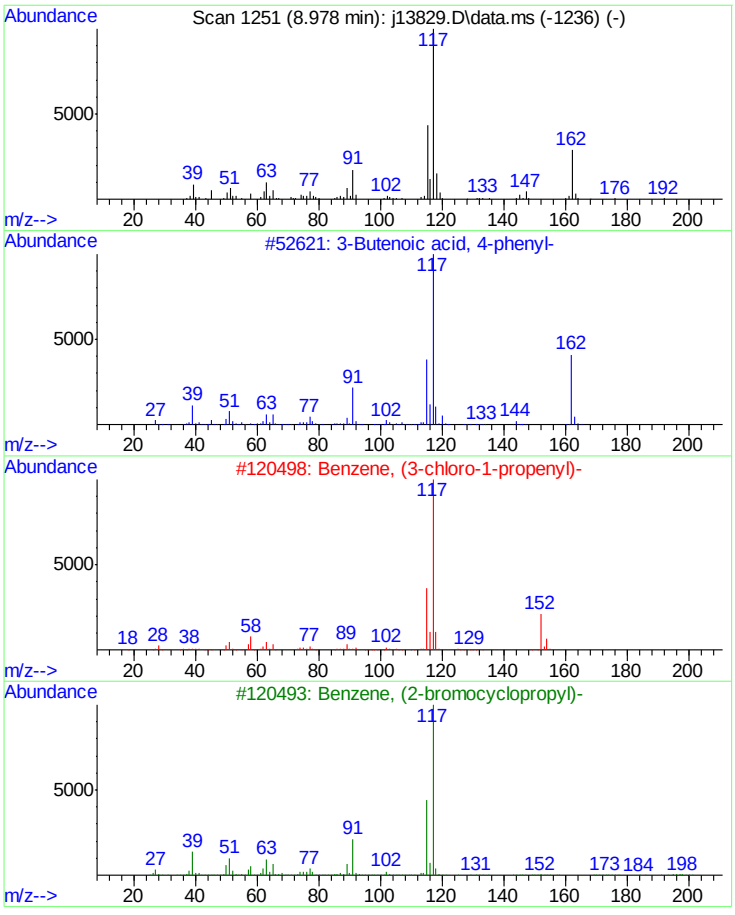
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

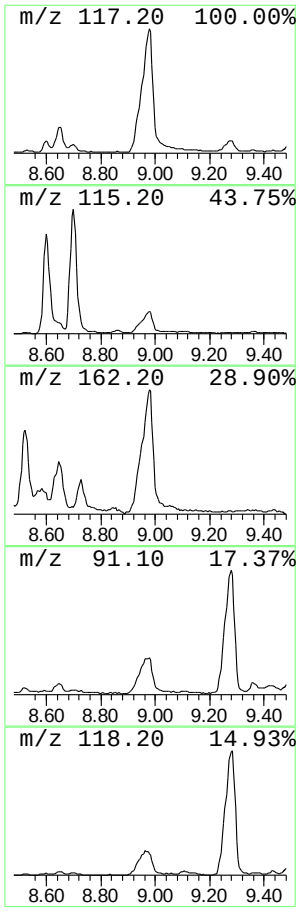
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 3-Butenoic acid, 4-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.978	10.99 ug/ml	1217360	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Butenoic acid, 4-phenyl-	162	C10H10O2	002243-53-0	87
2	Benzene, (3-chloro-1-propenyl)-	152	C9H9Cl	002687-12-9	59
3	Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	59
4	Benzeneacetic acid, ar-ethenyl-	162	C10H10O2	037570-14-2	59
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	59





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

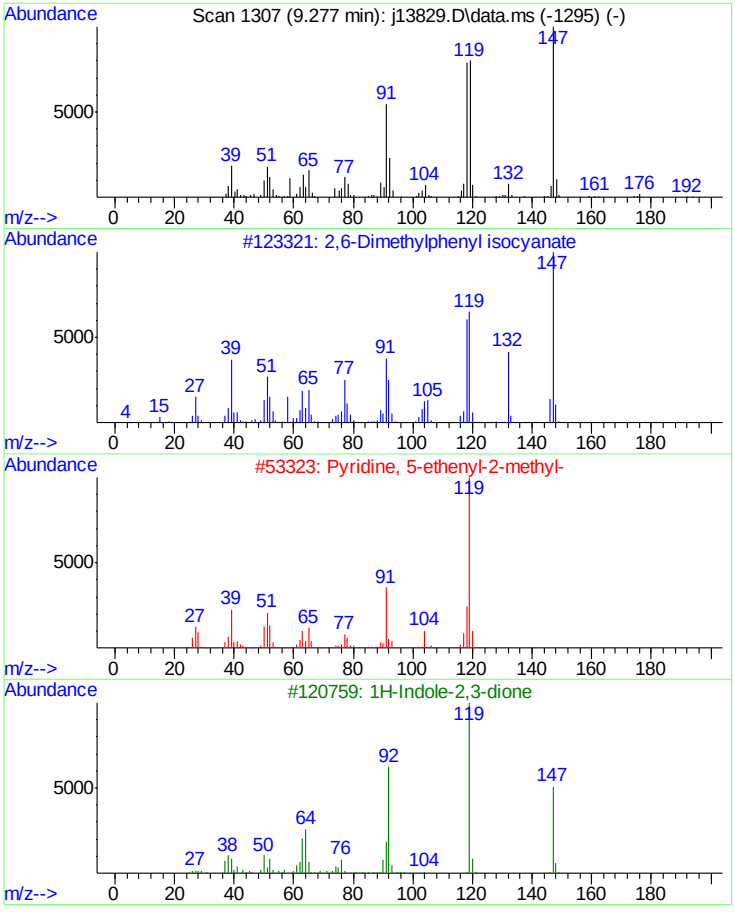
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

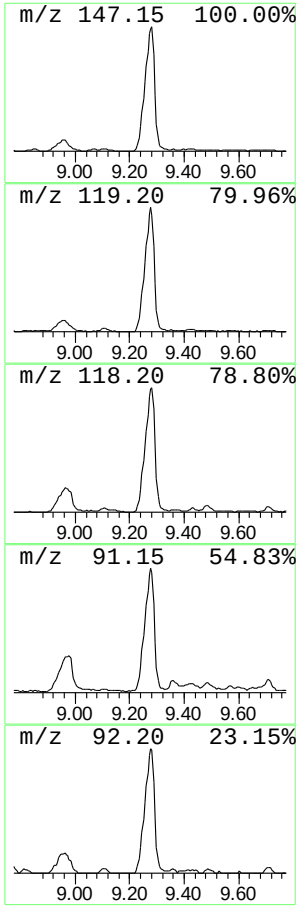
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 2,6-Dimethylphenyl isocyanate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.277	16.21 ug/ml	1796000	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-Dimethylphenyl isocyanate	147	C9H9NO	028556-81-2	90
2	Pyridine, 5-ethenyl-2-methyl-	119	C8H9N	000140-76-1	70
3	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	64
4	1H-Indole-2,3-dione	147	C8H5NO2	000091-56-5	64
5	2-Naphthalenamine, 5,6,7,8-tetra...	147	C10H13N	002217-43-8	58





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

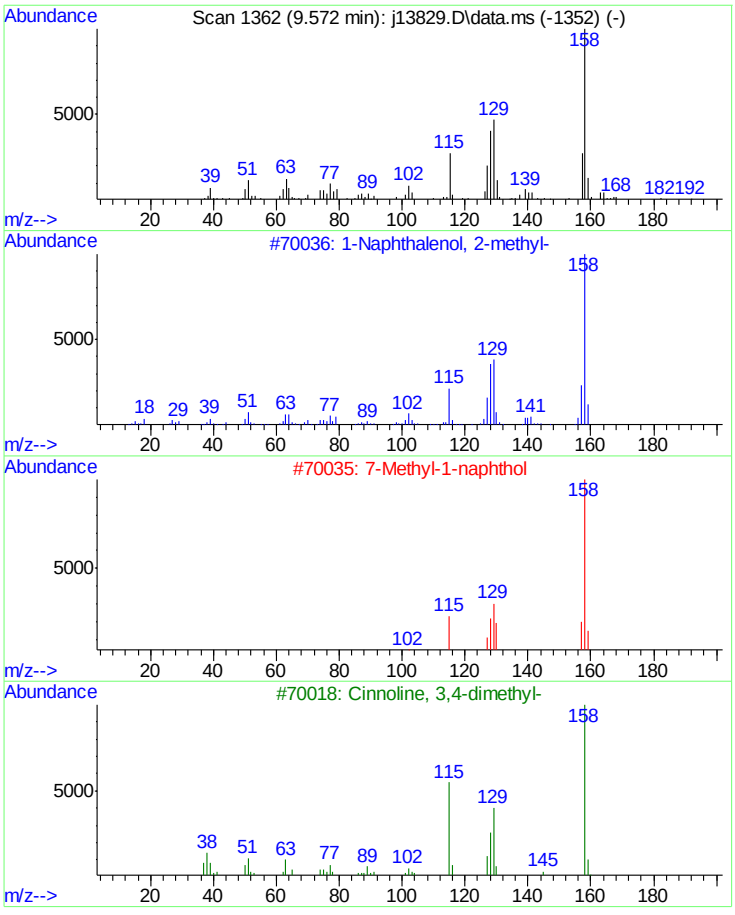
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

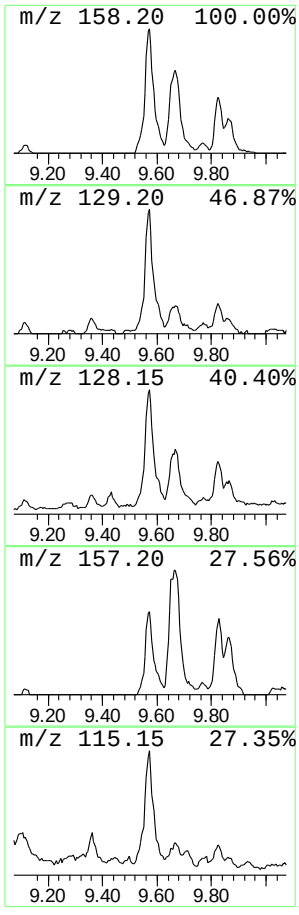
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 1-Naphthalenol, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.572	4.88 ug/ml	540020	Acenaphthene-d10	8.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol, 2-methyl-	158	C11H10O	007469-77-4	96
2	7-Methyl-1-naphthol	158	C11H10O	006939-33-9	72
3	Cinnoline, 3,4-dimethyl-	158	C10H10N2	003929-83-7	52
4	Phenol, 3-chloro-5-methoxy-	158	C7H7ClO2	065262-96-6	50
5	Cyclohexene, 1-phenyl-	158	C12H14	000771-98-2	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

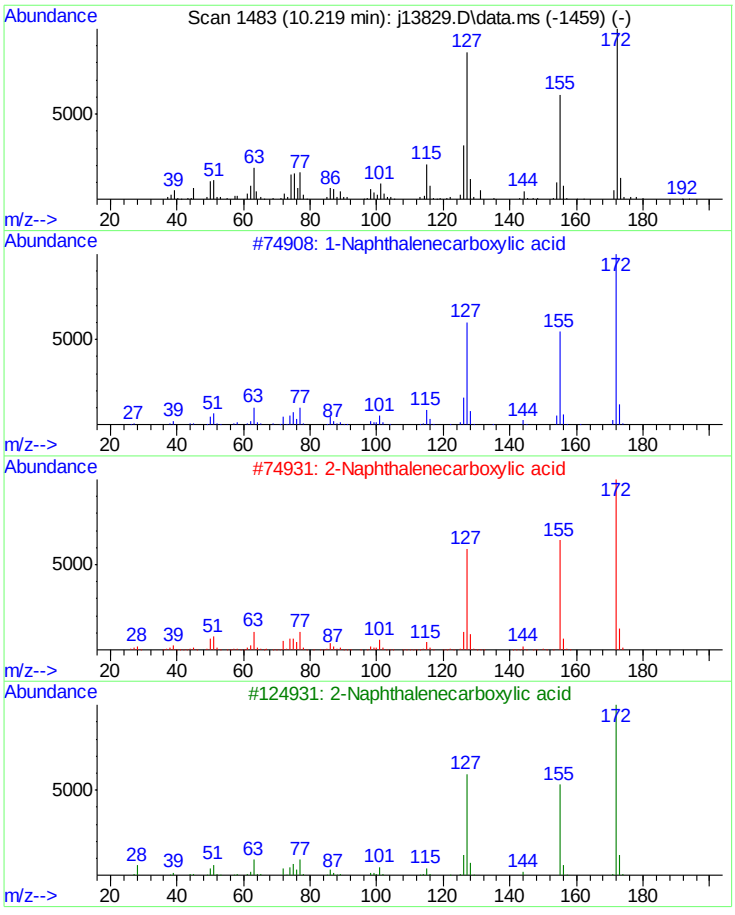
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

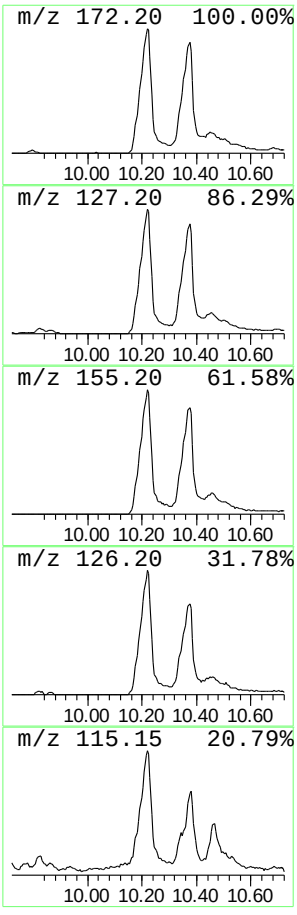
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 1-Naphthalenecarboxylic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.219	21.82 ug/ml	2248380	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	93
2	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	91
3	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	91
4	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	87
5	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	70





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

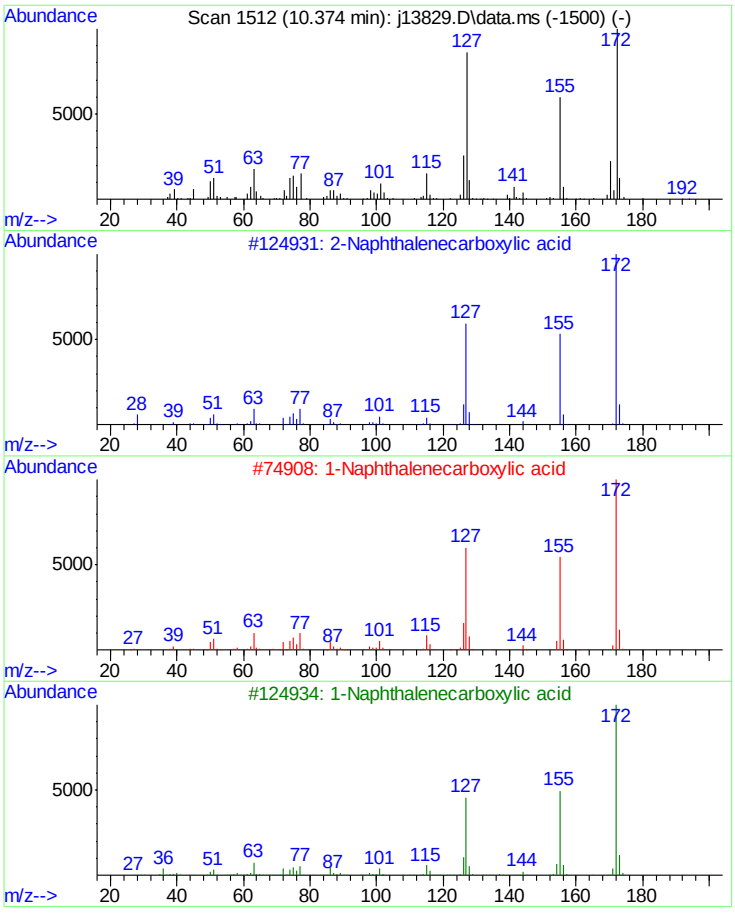
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

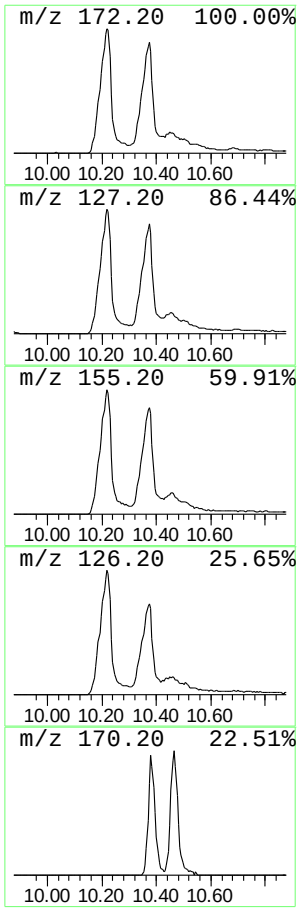
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 2-Naphthalenecarboxylic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.374	14.24 ug/ml	1466670	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	94
2	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	93
3	1-Naphthalenecarboxylic acid	172	C11H8O2	000086-55-5	93
4	2-Naphthalenecarboxylic acid	172	C11H8O2	000093-09-4	93
5	2-Naphthyl methyl ketone	170	C12H10O	000093-08-3	92





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

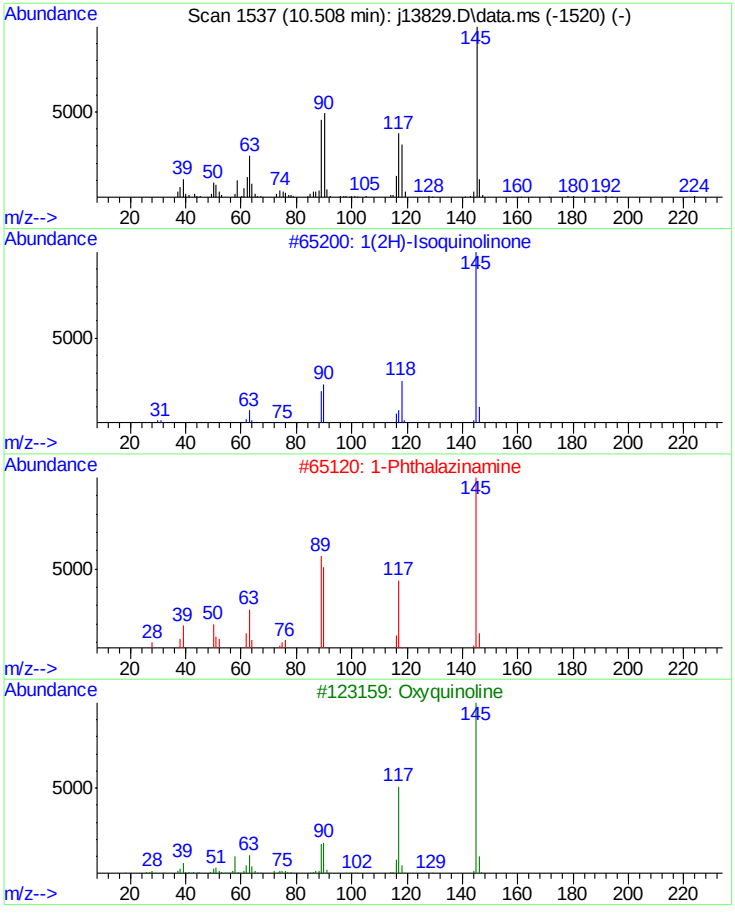
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

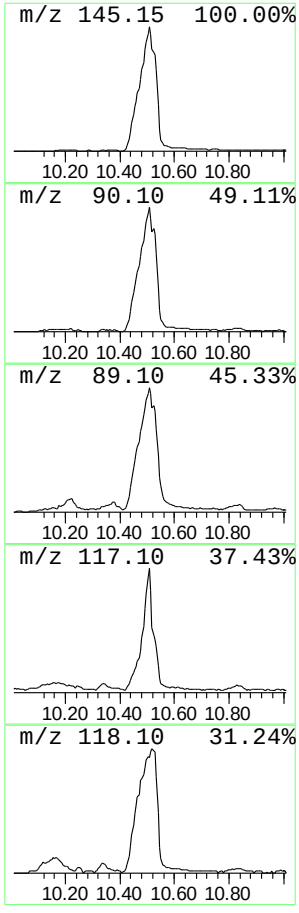
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 1(2H)-Isoquinolinone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.508	24.58 ug/ml	2532240	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Isoquinolinone	145	C9H7NO	000491-30-5	94
2	1-Phthalazinamine	145	C8H7N3	019064-69-8	93
3	Oxyquinoline	145	C9H7NO	000148-24-3	87
4	5-Quinolinol	145	C9H7NO	000578-67-6	87
5	Oxazole, 4-phenyl-	145	C9H7NO	020662-89-9	83





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

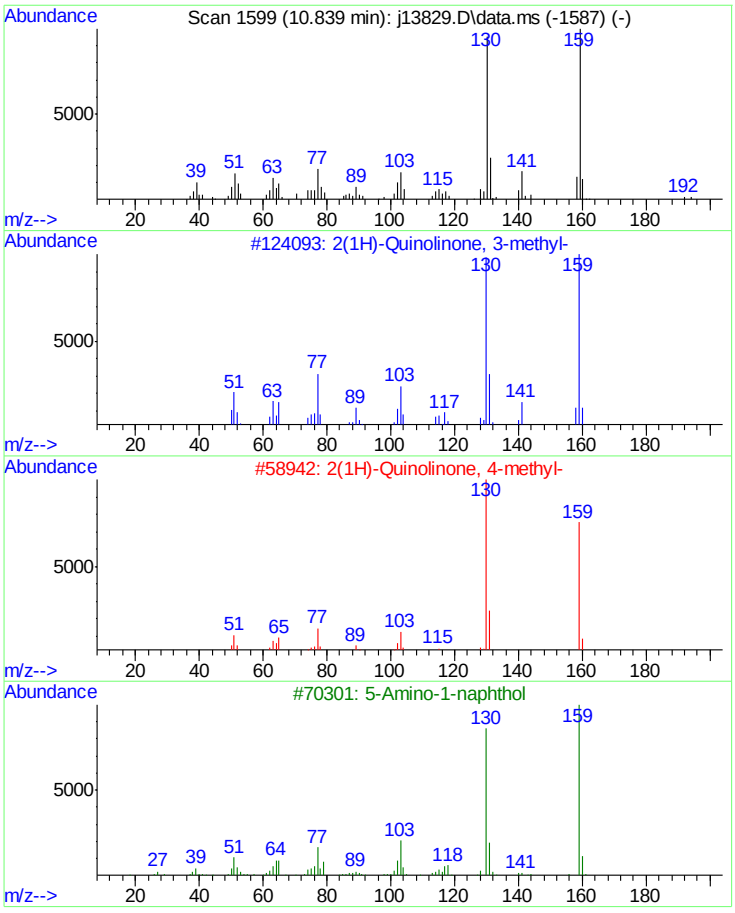
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

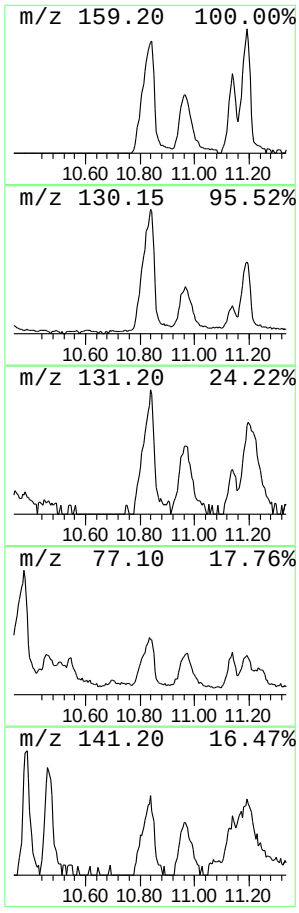
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 2(1H)-Quinolinone, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.839	4.24 ug/ml	436690	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	97
2	2(1H)-Quinolinone, 4-methyl-	159	C10H9NO	000607-66-9	96
3	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	91
4	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	80
5	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	70





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13829.D
Acq On : 14 Oct 2009 9:32 pm
Operator : sheilac
Sample : t39646-10,10x
Misc : op13250,Ej634,1000,,,1,10,water
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Benzofuran	4.592	6.3	ug/ml	520861	1	4.699	3330880	40.0
Indane	4.854	6.3	ug/ml	525649	1	4.699	3330880	40.0
Phenol, 2,6-dim...	5.325	7.4	ug/ml	2407780	2	5.913	13051700	40.0
Phenol, 3,5-dim...	5.753	80.0	ug/ml	26101800	2	5.913	13051700	40.0
Phenol, 2,3-dim...	5.795	6.8	ug/ml	2217010	2	5.913	13051700	40.0
Phenol, 3-ethyl...	6.368	6.2	ug/ml	2013470	2	5.913	13051700	40.0
1,4-Benzenedica...	7.619	5.9	ug/ml	649008	3	8.357	4430920	40.0
Pyrrole-2-carbo...	7.732	8.7	ug/ml	965299	3	8.357	4430920	40.0
1-Naphthalenol	8.598	12.9	ug/ml	1424760	3	8.357	4430920	40.0
2-Naphthalenol	8.700	17.2	ug/ml	1907030	3	8.357	4430920	40.0
1(3H)-Isobenzof...	8.817	5.4	ug/ml	596127	3	8.357	4430920	40.0
3-Butenoic acid...	8.978	11.0	ug/ml	1217360	3	8.357	4430920	40.0
2,6-Dimethylphe...	9.277	16.2	ug/ml	1796000	3	8.357	4430920	40.0
1-Naphthalenol,...	9.572	4.9	ug/ml	540020	3	8.357	4430920	40.0
1-Naphthaleneca...	10.219	21.8	ug/ml	2248380	4	11.139	4121020	40.0
2-Naphthaleneca...	10.374	14.2	ug/ml	1466670	4	11.139	4121020	40.0
1(2H)-Isoquinol...	10.508	24.6	ug/ml	2532240	4	11.139	4121020	40.0
2(1H)-Quinolino...	10.839	4.2	ug/ml	436690	4	11.139	4121020	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13853.D
Acq On : 15 Oct 2009 6:46 pm
Operator : sheilac
Sample : t39646-10,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 16 15:17:18 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

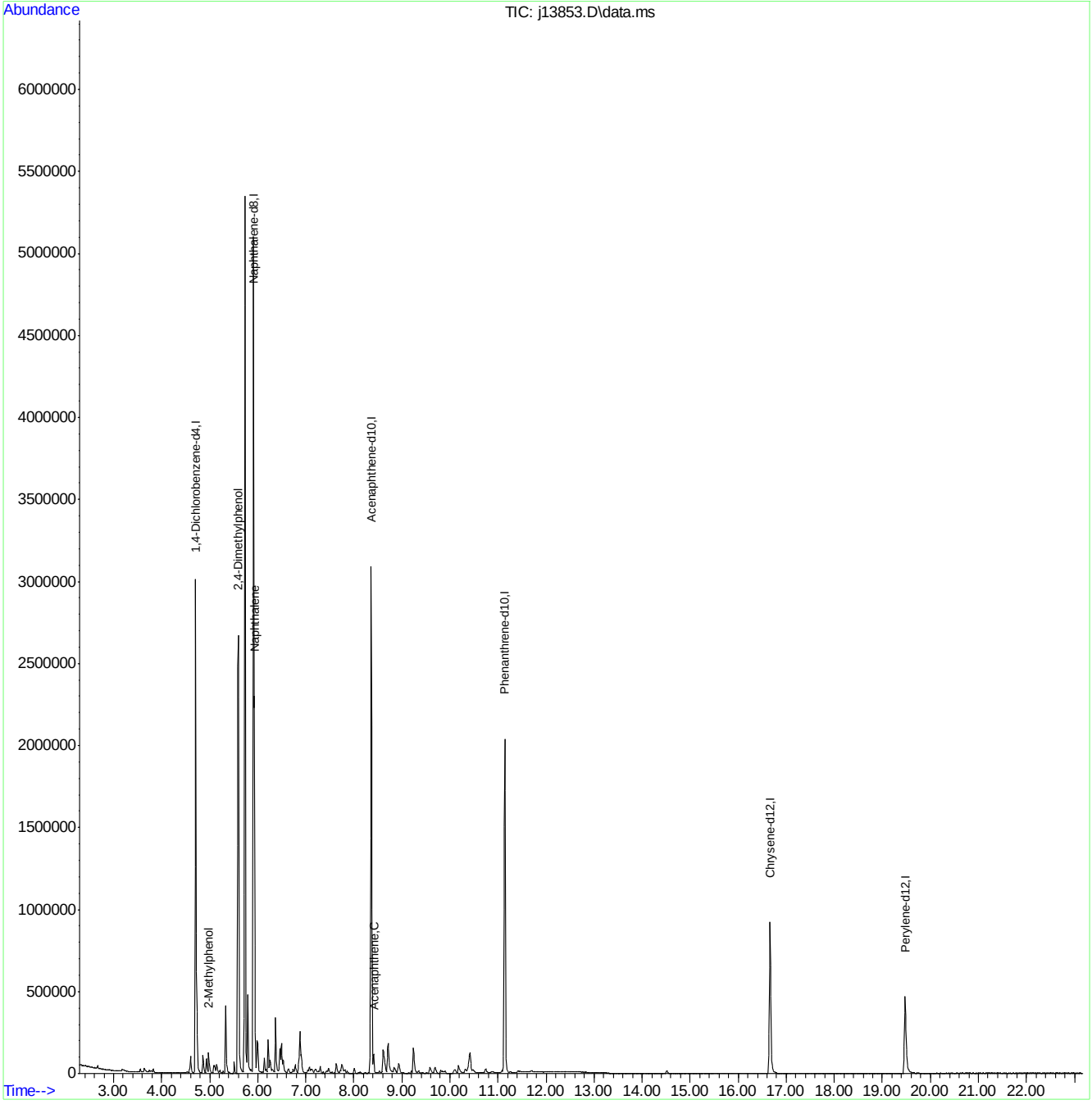
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	563013	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	2040566	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.363	164	1045813	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1251926	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	733223	40.00	ug/ml	-0.07
80) Perylene-d12	19.477	264	461971	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
14) 2-Methylphenol	4.977	108	37608	2.24	ug/ml#	72
25) 2,4-Dimethylphenol	5.592	122	792542	49.60	ug/ml	100
30) Naphthalene	5.935	128	1022885	18.40	ug/ml	99
47) Acenaphthene	8.416	154	34338	1.18	ug/ml#	75

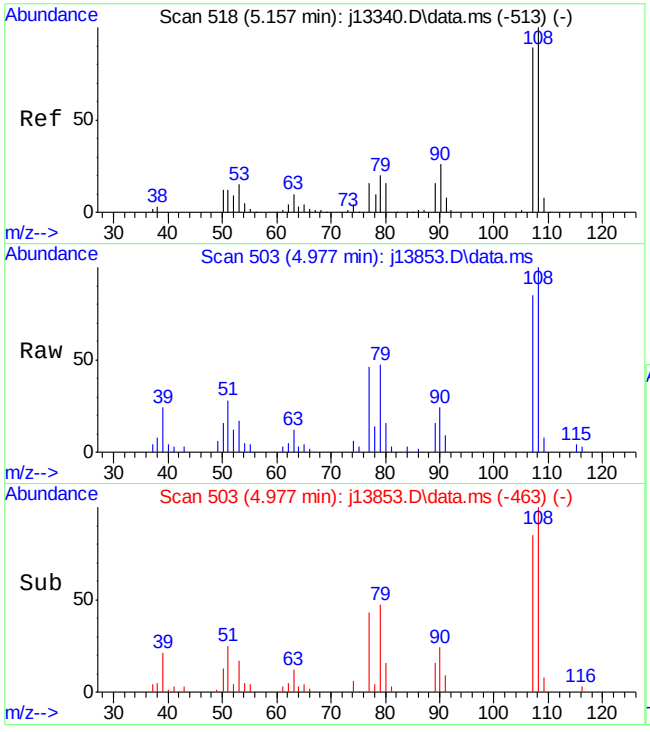
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13853.D
Acq On : 15 Oct 2009 6:46 pm
Operator : sheilac
Sample : t39646-10,40x
Misc : op13250,Ej635,1000,,,1,40,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 16 15:17:18 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

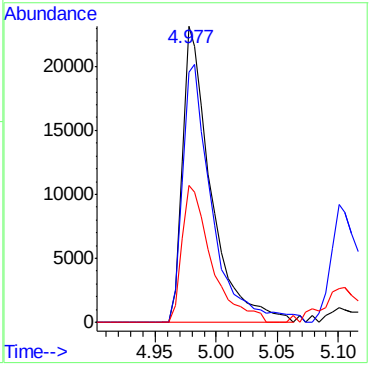


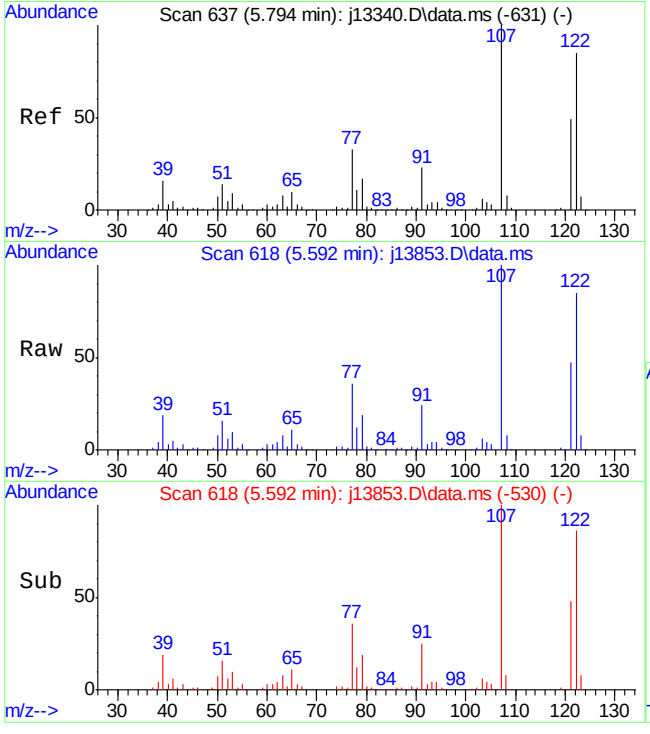


#14
2-Methylphenol
Concen: 2.24 ug/ml
RT: 4.977 min Scan# 503
Delta R.T. 0.016 min
Lab File: j13853.D
Acq: 15 Oct 2009 6:46 pm

Tgt Ion:108 Resp: 37608

Ion	Ratio	Lower	Upper
108	100		
107	90.5	68.3	108.3
77	0.0	30.8	70.8#

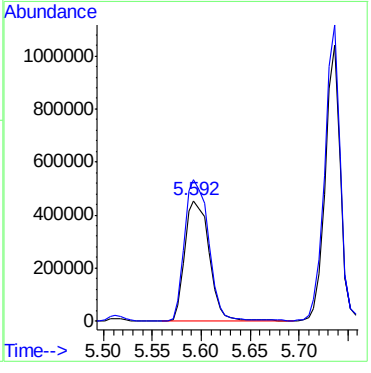


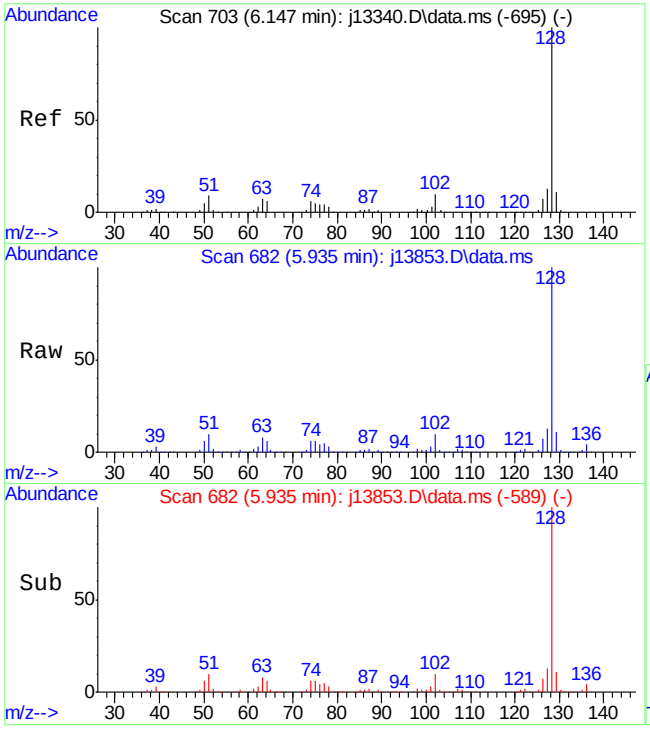


#25
2,4-Dimethylphenol
Concen: 49.60 ug/ml
RT: 5.592 min Scan# 618
Delta R.T. -0.027 min
Lab File: j13853.D
Acq: 15 Oct 2009 6:46 pm

Tgt Ion:122 Resp: 792542

Ion	Ratio	Lower	Upper
122	100		
107	116.5	96.3	136.3

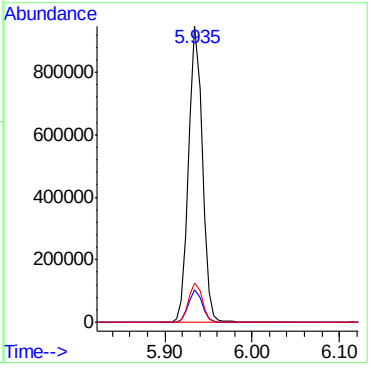


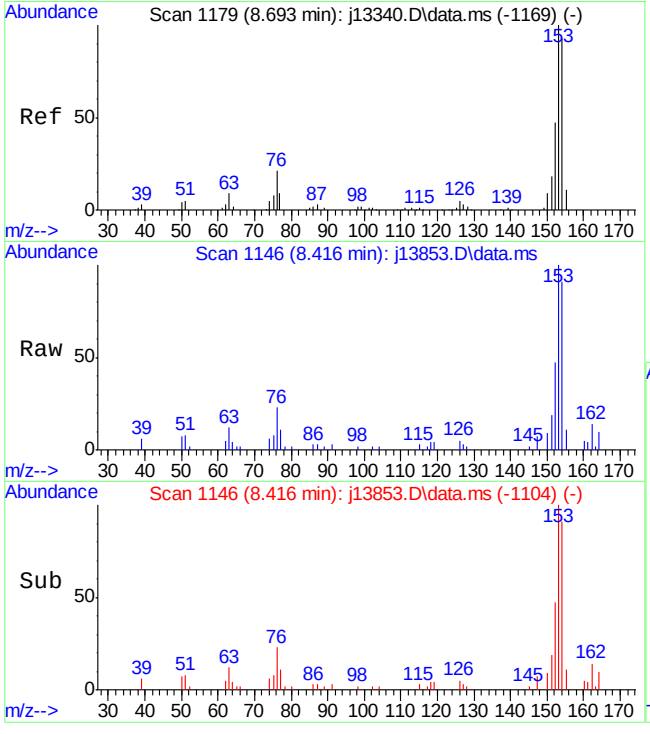


#30
Naphthalene
Concen: 18.40 ug/ml
RT: 5.935 min Scan# 682
Delta R.T. -0.000 min
Lab File: j13853.D
Acq: 15 Oct 2009 6:46 pm

Tgt Ion:128 Resp: 1022885

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	31.2
127	13.3	0.0	33.8

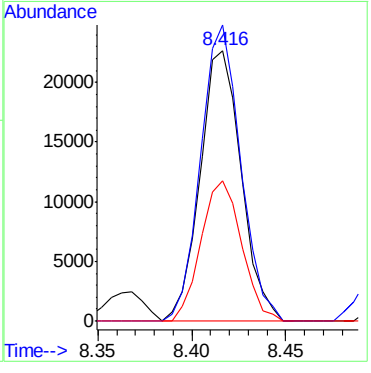




#47
Acenaphthene
Concen: 1.18 ug/ml
RT: 8.416 min Scan# 1146
Delta R.T. -0.277 min
Lab File: j13853.D
Acq: 15 Oct 2009 6:46 pm

Tgt Ion:154 Resp: 34338

Ion	Ratio	Lower	Upper
154	100		
153	106.3	87.9	127.9
152	0.0	31.3	71.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 16 14:49:08 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

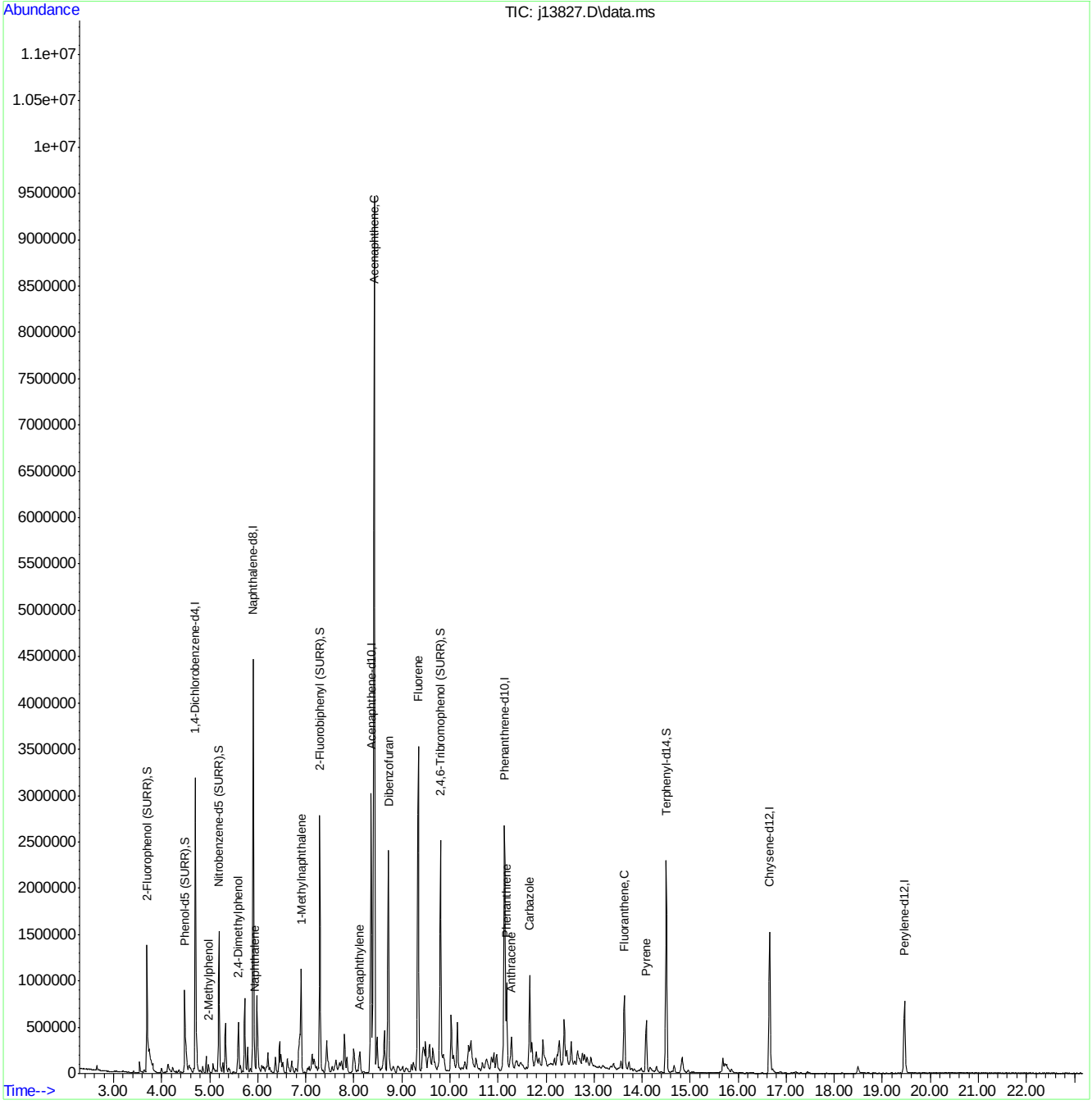
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	530505	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.903	136	1946117	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1068516	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1535052	40.00	ug/ml	-0.06
71) Chrysene-d12	16.653	240	1036698	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	616302	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.694	112	545356	32.76	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 32.76%			
5) Phenol-d5 (SURR)	4.480	99	463704	22.29	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 22.29%			
21) Nitrobenzene-d5 (SURR)	5.191	82	522314	25.59	ug/ml	-0.11
Spiked Amount 50.000	Range 29 - 115		Recovery = 51.18%			
40) 2-Fluorobiphenyl (SURR)	7.293	172	983131	23.62	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery = 47.24%			
62) 2,4,6-Tribromophenol (...	9.802	330	368514	71.35	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 71.35%			
74) Terphenyl-d14	14.503	244	1153229	46.59	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 93.18%			
Target Compounds						Qvalue
14) 2-Methylphenol	4.972	108	20632	1.31	ug/ml	92
25) 2,4-Dimethylphenol	5.598	122	135935	8.92	ug/ml	100
30) Naphthalene	5.929	128	142301	2.68	ug/ml	98
35) 1-Methylnaphthalene	6.903	142	360930	10.64	ug/ml	94
44) Acenaphthylene	8.117	152	63595	1.26	ug/ml	89
47) Acenaphthene	8.427	154	3537252	118.98	ug/ml	100
50) Dibenzofuran	8.721	168	1387542	32.67	ug/ml	98
54) Fluorene	9.342	166	1547684	41.82	ug/ml	99
66) Phenanthrene	11.182	178	534005	11.68	ug/ml	97
67) Anthracene	11.278	178	219818	4.99	ug/ml	87
68) Carbazole	11.663	167	671333	18.94	ug/ml	99
70) Fluoranthene	13.631	202	579387	13.97	ug/ml	99
73) Pyrene	14.086	202	375784	10.29	ug/ml	93

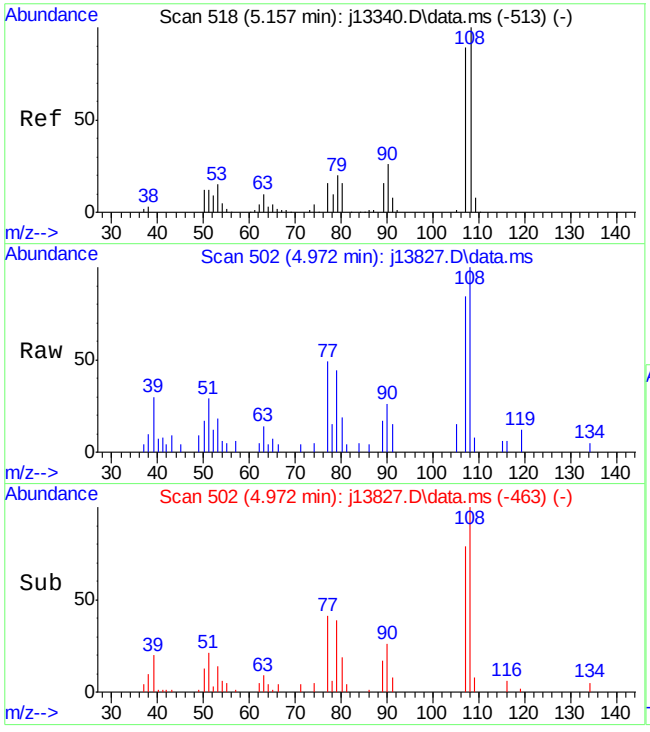
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 16 14:49:08 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

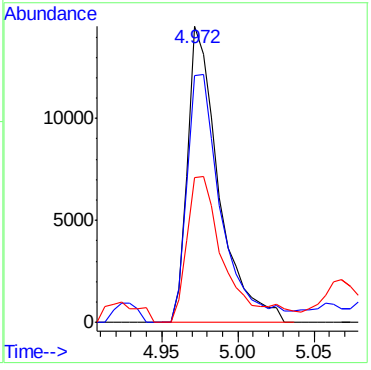


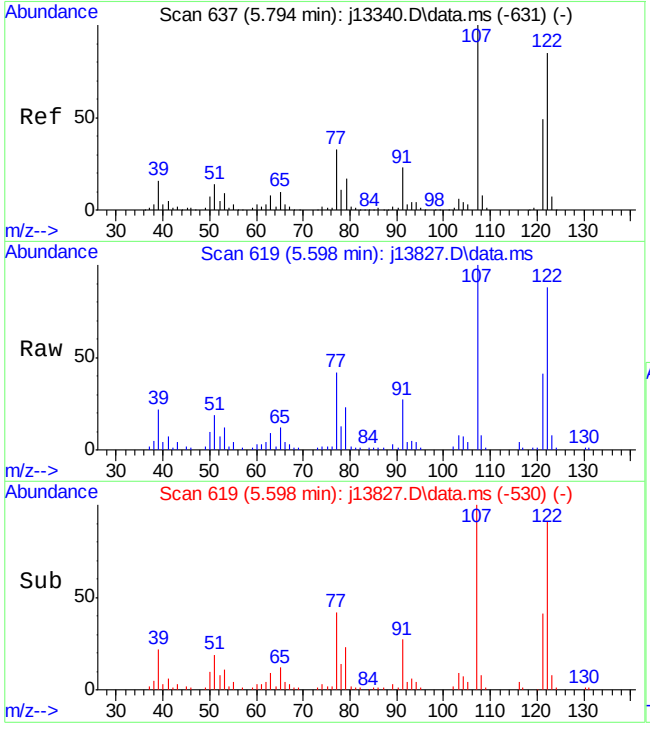


#14
2-Methylphenol
Concen: 1.31 ug/ml
RT: 4.972 min Scan# 502
Delta R.T. 0.011 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:108 Resp: 20632

Ion	Ratio	Lower	Upper
108	100		
107	92.7	68.3	108.3
77	60.6	30.8	70.8

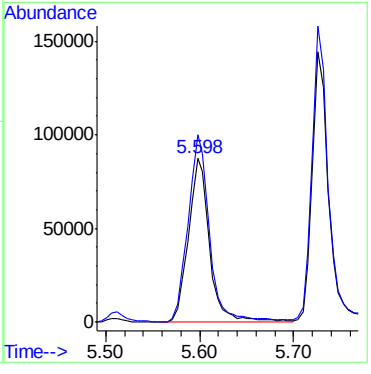




#25
2,4-Dimethylphenol
Concen: 8.92 ug/ml
RT: 5.598 min Scan# 619
Delta R.T. -0.021 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

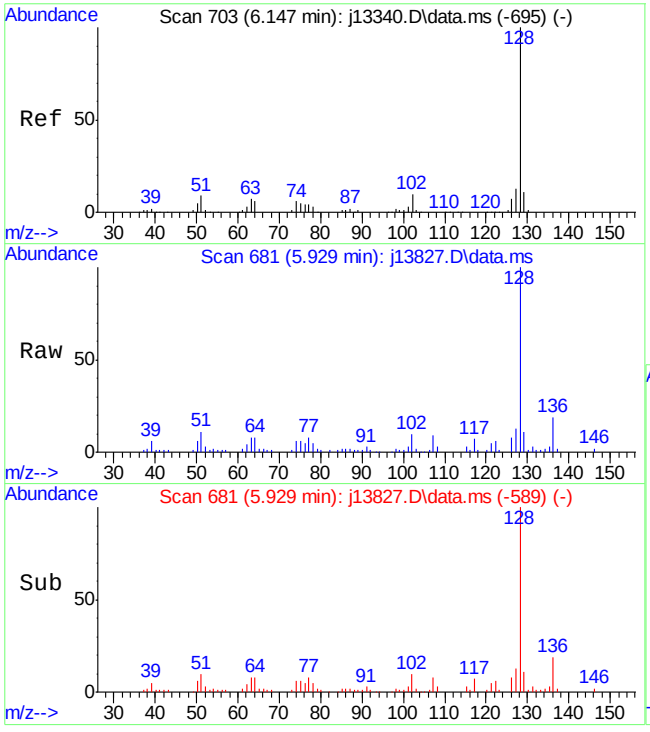
Tgt Ion:122 Resp: 135935

Ion	Ratio	Lower	Upper
122	100		
107	115.8	96.3	136.3



8.1.31

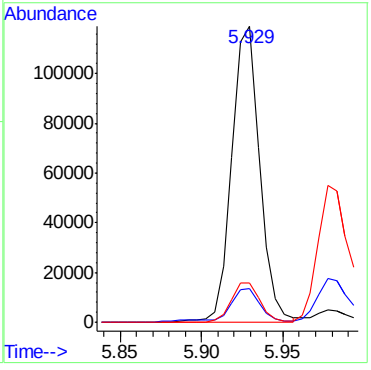
8

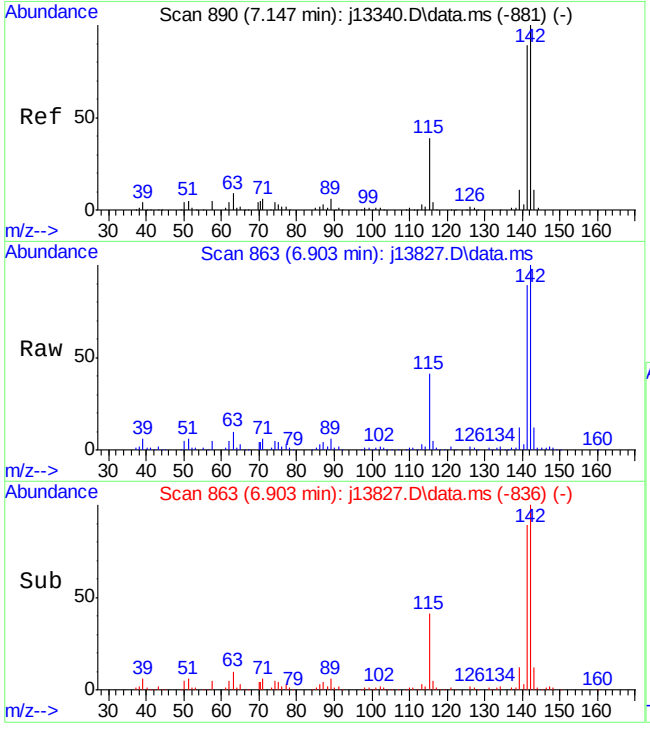


#30
Naphthalene
Concen: 2.68 ug/ml
RT: 5.929 min Scan# 681
Delta R.T. -0.005 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:128 Resp: 142301

Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	31.2
127	13.7	0.0	33.8

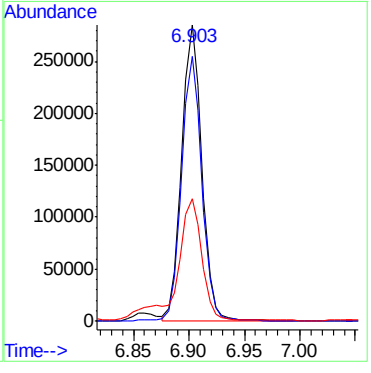




#35
1-Methylnaphthalene
Concen: 10.64 ug/ml
RT: 6.903 min Scan# 863
Delta R.T. -0.053 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

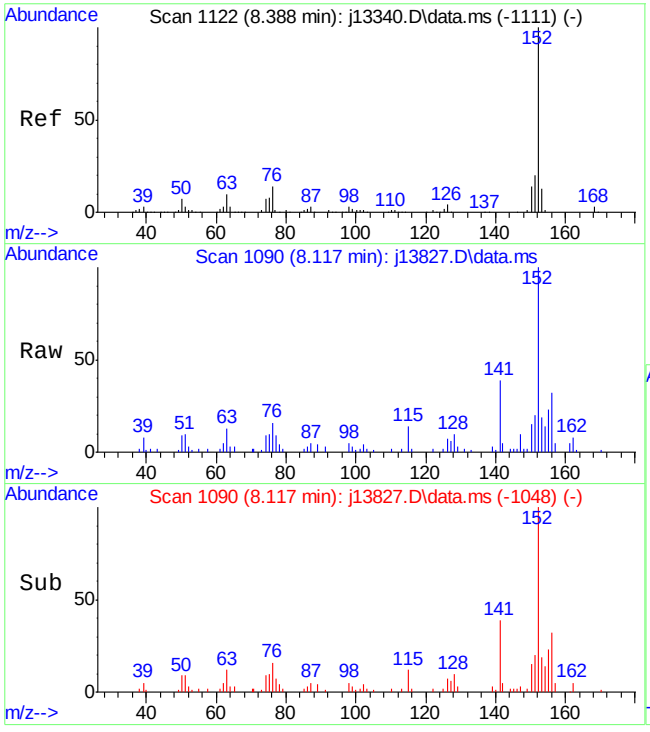
Tgt Ion:142 Resp: 360930

Ion	Ratio	Lower	Upper
142	100		
141	89.8	69.4	109.4
115	50.3	18.9	58.9



8.1.31

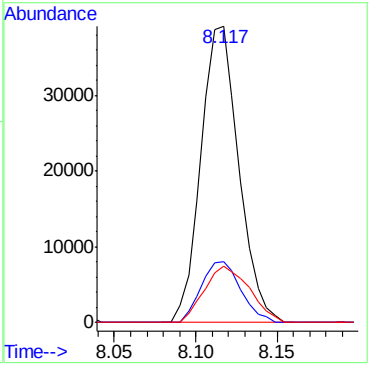
8

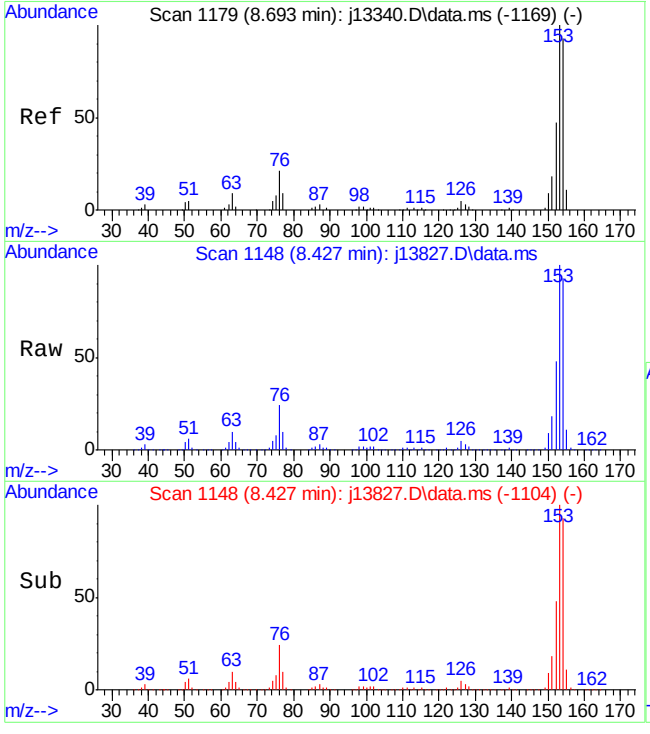


#44
Acenaphthylene
Concen: 1.26 ug/ml
RT: 8.117 min Scan# 1090
Delta R.T. -0.277 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:152 Resp: 63595

Ion	Ratio	Lower	Upper
152	100		
151	21.2	0.2	40.2
153	22.6	0.0	33.0

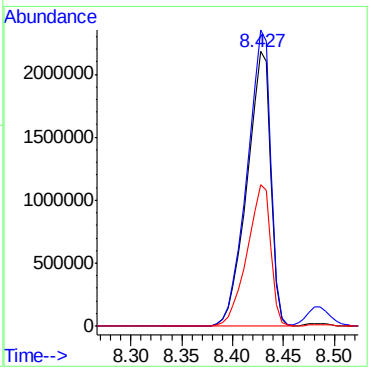


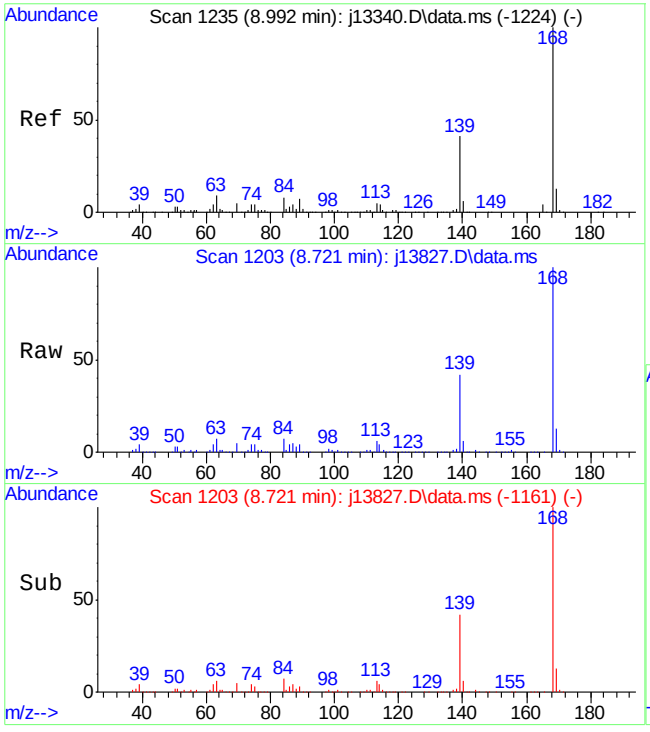


#47
Acenaphthene
Concen: 118.98 ug/ml
RT: 8.427 min Scan# 1148
Delta R.T. -0.266 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:154 Resp: 3537252

Ion	Ratio	Lower	Upper
154	100		
153	107.3	87.9	127.9
152	51.3	31.3	71.3

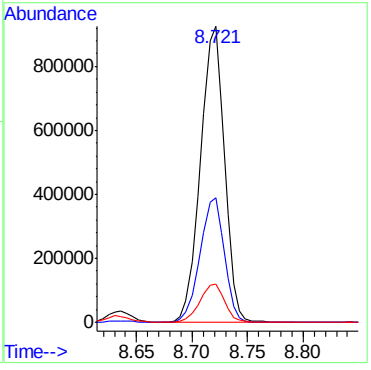


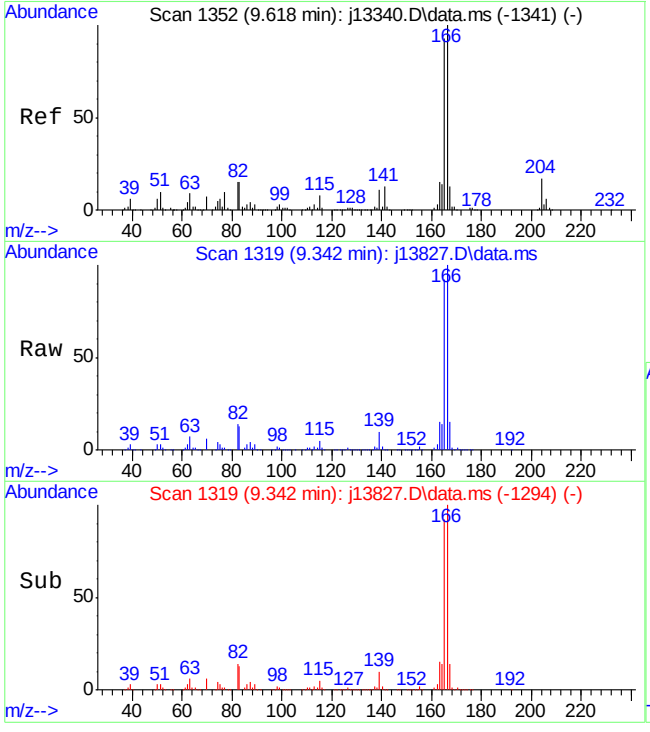


#50
Dibenzofuran
Concen: 32.67 ug/ml
RT: 8.721 min Scan# 1203
Delta R.T. -0.277 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:168 Resp: 1387542

Ion	Ratio	Lower	Upper
168	100		
139	42.7	21.2	61.2
169	13.3	0.0	33.2

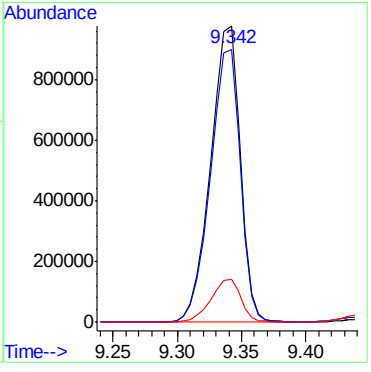


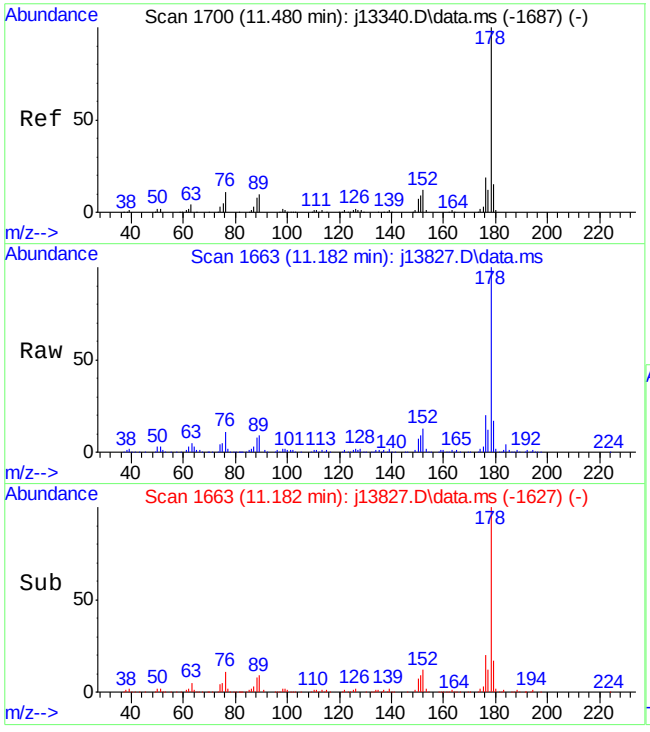


#54
Fluorene
Concen: 41.82 ug/ml
RT: 9.342 min Scan# 1319
Delta R.T. -0.064 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:166 Resp: 1547684

Ion	Ratio	Lower	Upper
166	100		
165	92.9	73.8	113.8
167	14.8	0.0	33.3

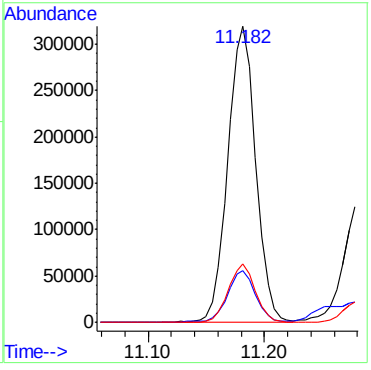


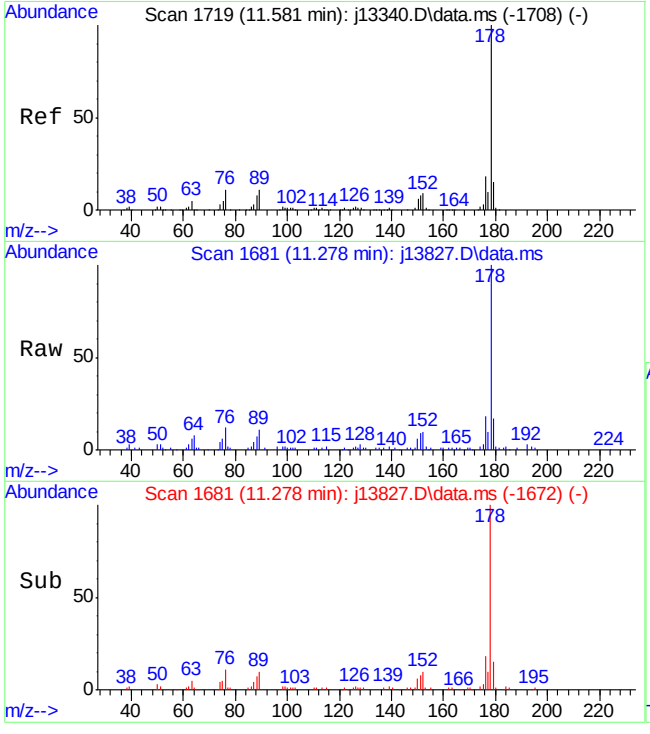


#66
Phenanthrene
Concen: 11.68 ug/ml
RT: 11.182 min Scan# 1663
Delta R.T. -0.005 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:178 Resp: 534005

Ion	Ratio	Lower	Upper
178	100		
179	17.7	0.0	35.2
176	19.0	0.0	38.8

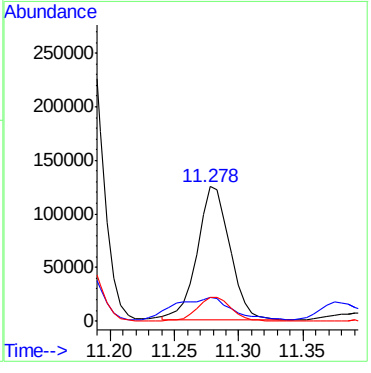


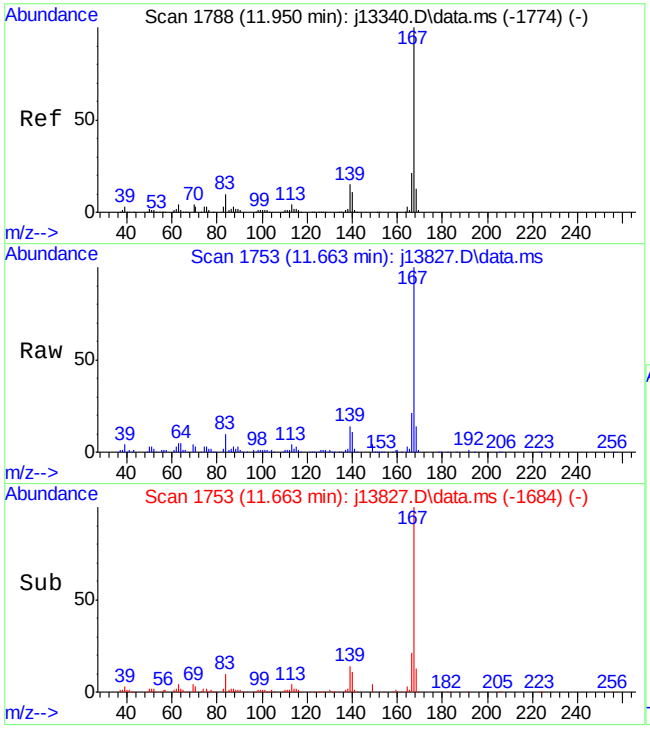


#67
Anthracene
Concen: 4.99 ug/ml
RT: 11.278 min Scan# 1681
Delta R.T. -0.151 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:178 Resp: 219818

Ion	Ratio	Lower	Upper
178	100		
179	26.5	0.0	35.1
176	18.6	0.0	38.3

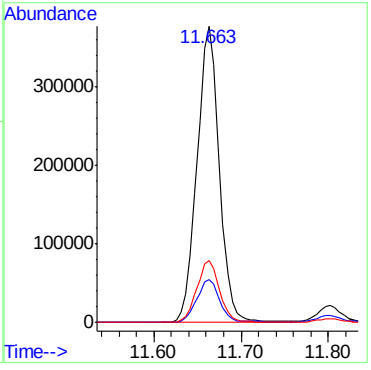


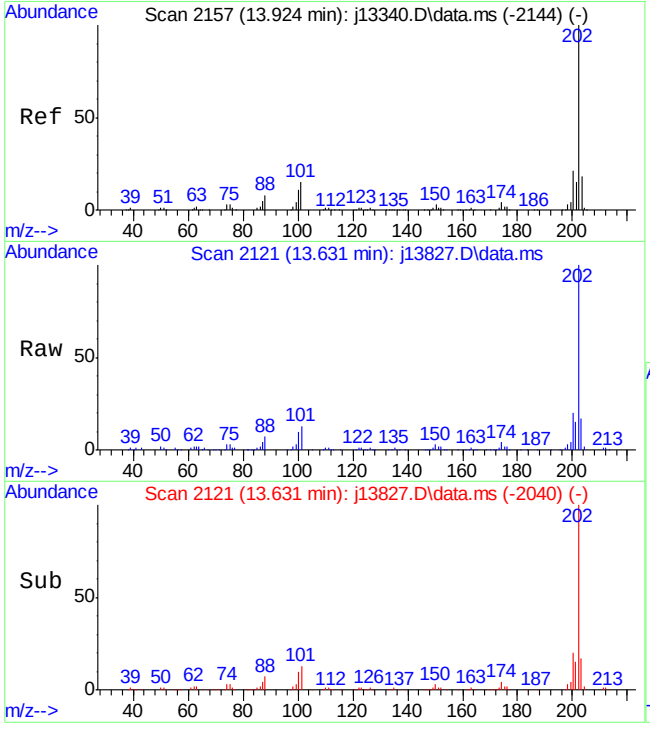


#68
Carbazole
Concen: 18.94 ug/ml
RT: 11.663 min Scan# 1753
Delta R.T. -0.130 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:167 Resp: 671333

Ion	Ratio	Lower	Upper
167	100		
139	15.0	0.0	34.1
166	21.2	0.9	40.9

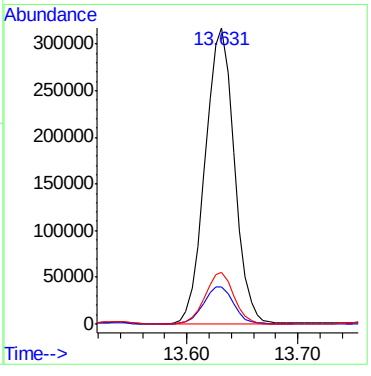


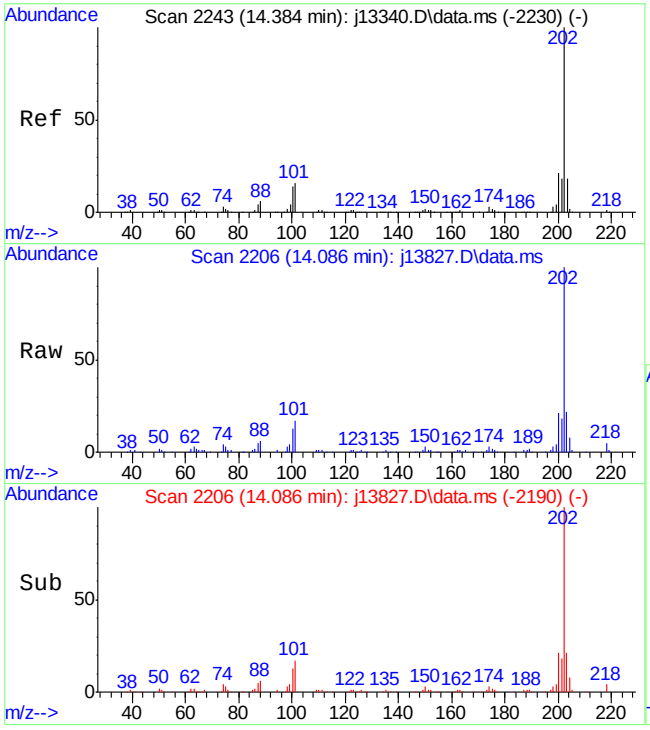


#70
Fluoranthene
Concen: 13.97 ug/ml
RT: 13.631 min Scan# 2121
Delta R.T. -0.069 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:202 Resp: 579387

Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	33.9
203	17.2	0.0	37.3

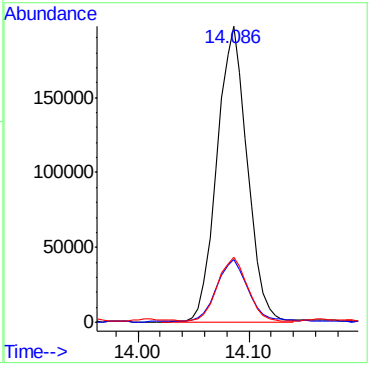




#73
Pyrene
Concen: 10.29 ug/ml
RT: 14.086 min Scan# 2206
Delta R.T. -0.115 min
Lab File: j13827.D
Acq: 14 Oct 2009 8:34 pm

Tgt Ion:202 Resp: 375784

Ion	Ratio	Lower	Upper
202	100		
200	23.1	0.5	40.5
203	21.1	0.0	37.8



8.1.31

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13827.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.694	260	263	271	rBV	1371744	1667792	10.91%	1.639%
2	3.742	271	272	284	rVB	207414	380590	2.49%	0.374%
3	4.132	341	345	358	rBV2	86084	195572	1.28%	0.192%
4	4.480	405	410	423	rBV	891097	1486310	9.72%	1.461%
5	4.699	447	451	461	rBV	3142940	3492240	22.84%	3.432%
6	4.924	489	493	499	rBV	177222	217983	1.43%	0.214%
7	5.191	539	543	554	rVB	1514551	1786953	11.69%	1.756%
8	5.325	563	568	577	rBV	536408	772297	5.05%	0.759%
9	5.598	607	619	624	rBV	553516	839014	5.49%	0.825%
10	5.726	639	643	651	rBV	793145	972673	6.36%	0.956%
11	5.790	651	655	662	rVB	274449	348997	2.28%	0.343%
12	5.903	669	676	686	rBV	4452786	5634469	36.85%	5.538%
13	5.983	686	691	707	rVB2	832328	1438699	9.41%	1.414%
14	6.213	730	734	738	rVB	195296	235147	1.54%	0.231%
15	6.368	754	763	770	rBV2	174353	281904	1.84%	0.277%
16	6.454	772	779	782	rBV	335119	426829	2.79%	0.420%
17	6.486	782	785	789	rVV	168334	208170	1.36%	0.205%
18	6.523	789	792	801	rVB2	112935	161769	1.06%	0.159%
19	6.619	805	810	813	rBV	145848	211300	1.38%	0.208%
20	6.705	821	826	834	rBV2	118745	189407	1.24%	0.186%
21	6.876	849	858	859	rBV3	408644	800882	5.24%	0.787%
22	6.903	859	863	874	rVB	1123002	1535759	10.05%	1.509%
23	7.133	898	906	910	rBV4	177894	321494	2.10%	0.316%
24	7.176	911	914	921	rVB5	101108	172654	1.13%	0.170%
25	7.293	927	936	945	rVB	2762991	3641421	23.82%	3.579%
26	7.438	953	963	967	rBV2	342140	673584	4.41%	0.662%
27	7.625	994	998	1005	rVV	131228	266390	1.74%	0.262%
28	7.705	1005	1013	1016	rVV4	101126	233553	1.53%	0.230%
29	7.743	1016	1020	1026	rVV4	124480	248895	1.63%	0.245%
30	7.807	1026	1032	1037	rVV	410656	677961	4.43%	0.666%
31	7.855	1037	1041	1052	rVB4	167740	290982	1.90%	0.286%
32	7.999	1061	1068	1078	rVB2	245793	544946	3.56%	0.536%
33	8.128	1085	1092	1100	rVB4	223985	462128	3.02%	0.454%
34	8.363	1123	1136	1140	rBV	3013304	5002728	32.72%	4.917%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

35	8.427	1140	1148	1154	rVV	9429844	15288366	100.00%	15.026%
36	8.481	1154	1158	1164	rVB	338728	512719	3.35%	0.504%
37	8.636	1178	1187	1194	rVB3	435976	775992	5.08%	0.763%
38	8.721	1194	1203	1215	rBV	2379966	3718692	24.32%	3.655%
39	8.818	1216	1221	1231	rVB6	66916	173614	1.14%	0.171%
40	9.235	1295	1299	1309	rVB4	87635	195775	1.28%	0.192%
41	9.342	1309	1319	1326	rVB	3506638	5598623	36.62%	5.503%
42	9.438	1327	1337	1339	rBV3	258455	457794	2.99%	0.450%
43	9.492	1344	1347	1353	rVB2	279974	403530	2.64%	0.397%
44	9.545	1353	1357	1359	rBV2	128378	183399	1.20%	0.180%
45	9.577	1359	1363	1371	rVB	227929	381472	2.50%	0.375%
46	9.647	1371	1376	1381	rBV2	184323	302968	1.98%	0.298%
47	9.802	1397	1405	1413	rBV2	2450833	4280495	28.00%	4.207%
48	9.861	1413	1416	1427	rVB5	178582	422908	2.77%	0.416%
49	10.026	1441	1447	1453	rBV	600525	1090835	7.14%	1.072%
50	10.155	1465	1471	1478	rBV	497493	789905	5.17%	0.776%
51	10.315	1494	1501	1506	rBV3	83908	178490	1.17%	0.175%
52	10.390	1506	1515	1519	rVV3	264232	627267	4.10%	0.617%
53	10.438	1520	1524	1538	rVV3	305414	797482	5.22%	0.784%
54	10.545	1539	1544	1554	rVB3	120608	255101	1.67%	0.251%
55	10.679	1562	1569	1575	rBV3	91642	189173	1.24%	0.186%
56	10.759	1576	1584	1597	rVV8	129052	463658	3.03%	0.456%
57	10.866	1598	1604	1609	rVV2	141270	326555	2.14%	0.321%
58	10.914	1609	1613	1619	rVV	192936	353852	2.31%	0.348%
59	10.973	1619	1624	1637	rVB	174052	353523	2.31%	0.347%
60	11.139	1640	1655	1659	rBV2	2647681	5026948	32.88%	4.941%
61	11.182	1659	1663	1671	rVV	945455	1630502	10.66%	1.603%
62	11.278	1671	1681	1692	rVV	351486	868975	5.68%	0.854%
63	11.385	1693	1701	1711	rVV6	94169	348796	2.28%	0.343%
64	11.476	1713	1718	1734	rVB10	73100	273985	1.79%	0.269%
65	11.663	1744	1753	1758	rBV	1017316	1897827	12.41%	1.865%
66	11.706	1758	1761	1769	rVB	264645	451738	2.95%	0.444%
67	11.797	1770	1778	1784	rBV5	155428	367636	2.40%	0.361%
68	11.936	1799	1804	1811	rBV	279906	580351	3.80%	0.570%
69	12.235	1854	1860	1861	rBV2	113362	164821	1.08%	0.162%
70	12.278	1862	1868	1876	rVB2	264247	593244	3.88%	0.583%
71	12.380	1880	1887	1893	rVV	489791	959600	6.28%	0.943%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

72	12.428	1893	1896	1904	rVV2	156700	311988	2.04%	0.307%
73	12.524	1908	1914	1923	rVB3	251174	490709	3.21%	0.482%
74	12.653	1933	1938	1952	rBV4	153437	449248	2.94%	0.442%
75	12.760	1952	1958	1962	rVV	123151	242188	1.58%	0.238%
76	12.802	1962	1966	1972	rVV3	114870	241892	1.58%	0.238%
77	12.856	1972	1976	1984	rVV3	89041	167703	1.10%	0.165%
78	12.936	1986	1991	1999	rVB4	91266	180371	1.18%	0.177%
79	13.631	2113	2121	2133	rVV	795301	1509779	9.88%	1.484%
80	14.086	2198	2206	2216	rBV	561918	1083349	7.09%	1.065%
81	14.300	2237	2246	2257	rVB3	65882	161598	1.06%	0.159%
82	14.503	2276	2284	2293	rBV	2290701	4062775	26.57%	3.993%
83	14.669	2310	2315	2324	rVB	80960	159520	1.04%	0.157%
84	14.835	2334	2346	2363	rBV2	165506	441210	2.89%	0.434%
85	15.680	2498	2504	2508	rBV	155053	263631	1.72%	0.259%
86	16.653	2671	2686	2695	rBV	1528761	3006069	19.66%	2.954%
87	18.488	3021	3029	3039	rBV	77466	161680	1.06%	0.159%
88	19.461	3201	3211	3232	rBV	783706	1703668	11.14%	1.674%

Sum of corrected areas: 101745481

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On    : 14 Oct 2009   8:34 pm
Operator  : sheilac
Sample    : t39646-11
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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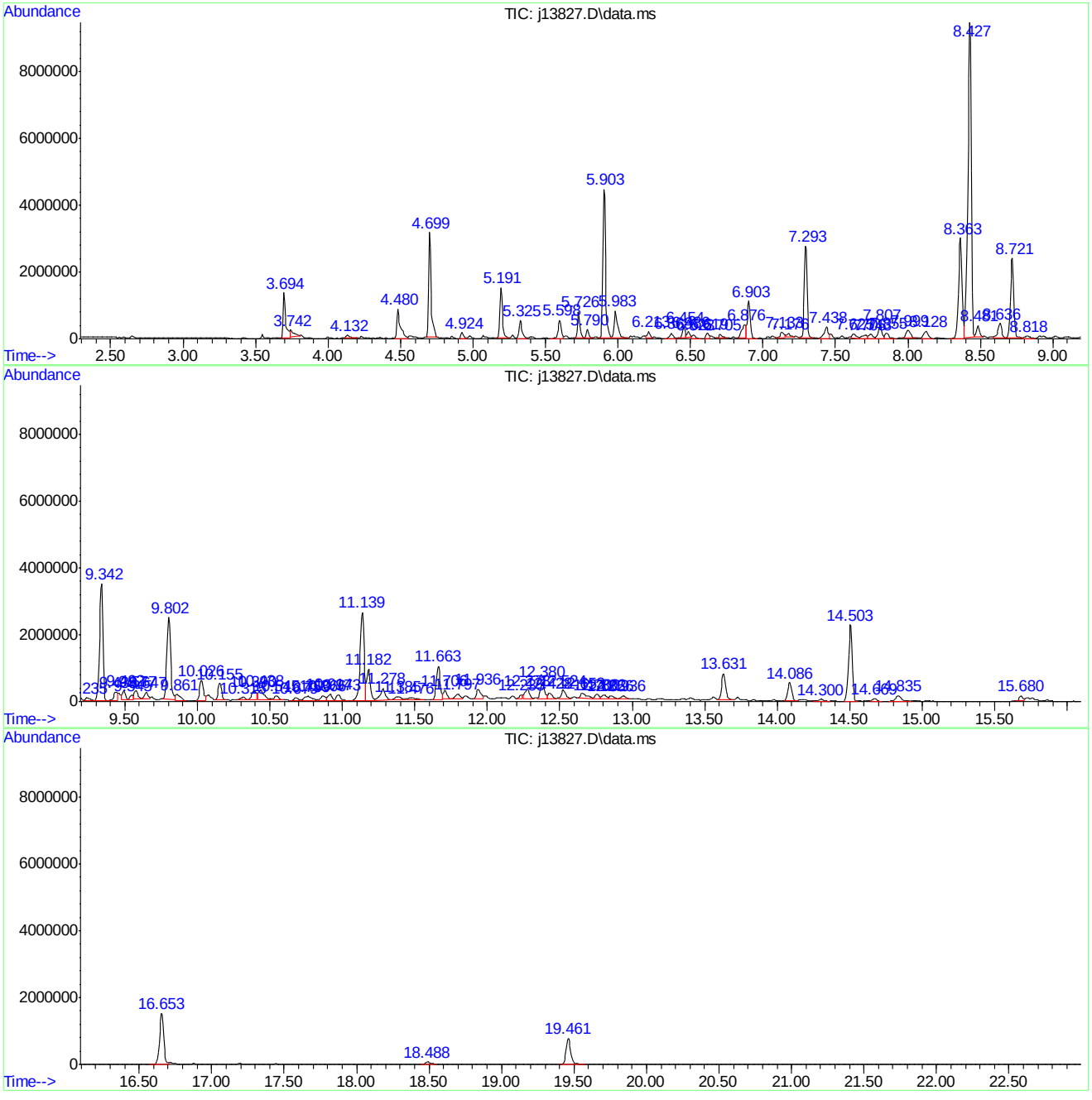


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

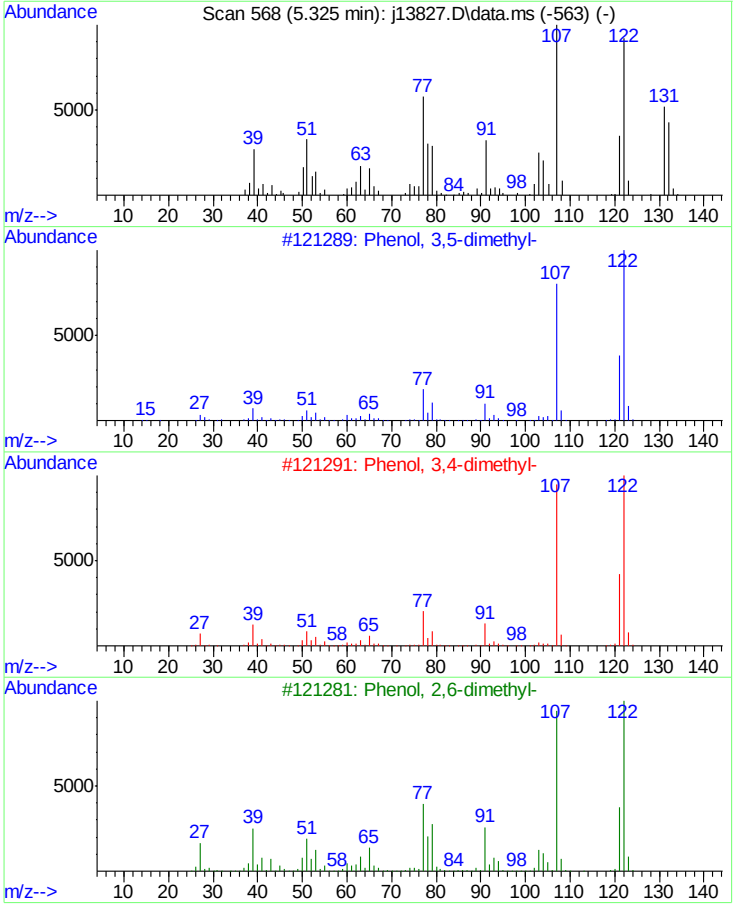
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

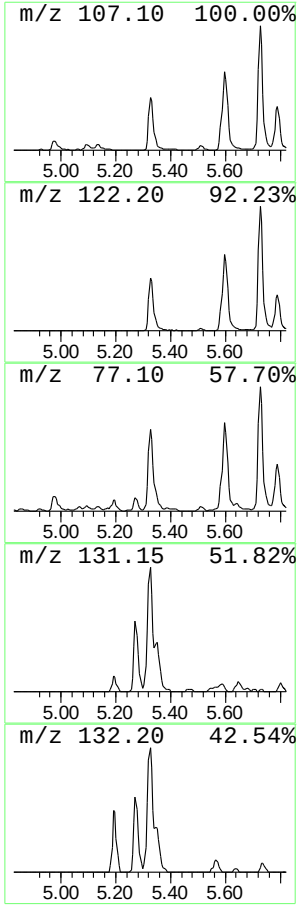
****

Peak Number 1 Phenol, 3,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.325	5.48 ug/ml	772297	Naphthalene-d8	5.903

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	60
2	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	60
3	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	60
4	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	60
5	Phenol, 2,6-dimethyl-	122	C8H10O	000576-26-1	60





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

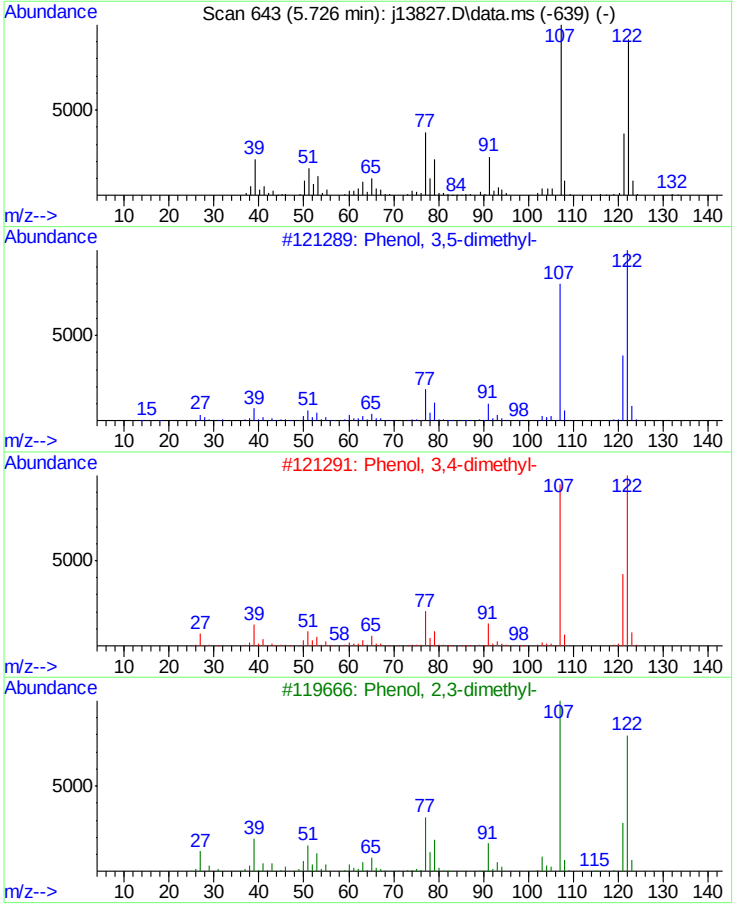
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

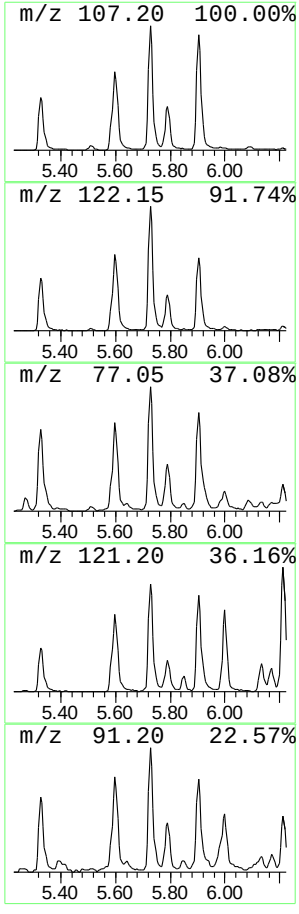
****

Peak Number 2 Phenol, 3,4-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.726	6.91 ug/ml	972673	Naphthalene-d8	5.903

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	95
2	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	95
3	Phenol, 2,3-dimethyl-	122	C8H10O	000526-75-0	94
4	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	94
5	Phenol, 2,5-dimethyl-	122	C8H10O	000095-87-4	94





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

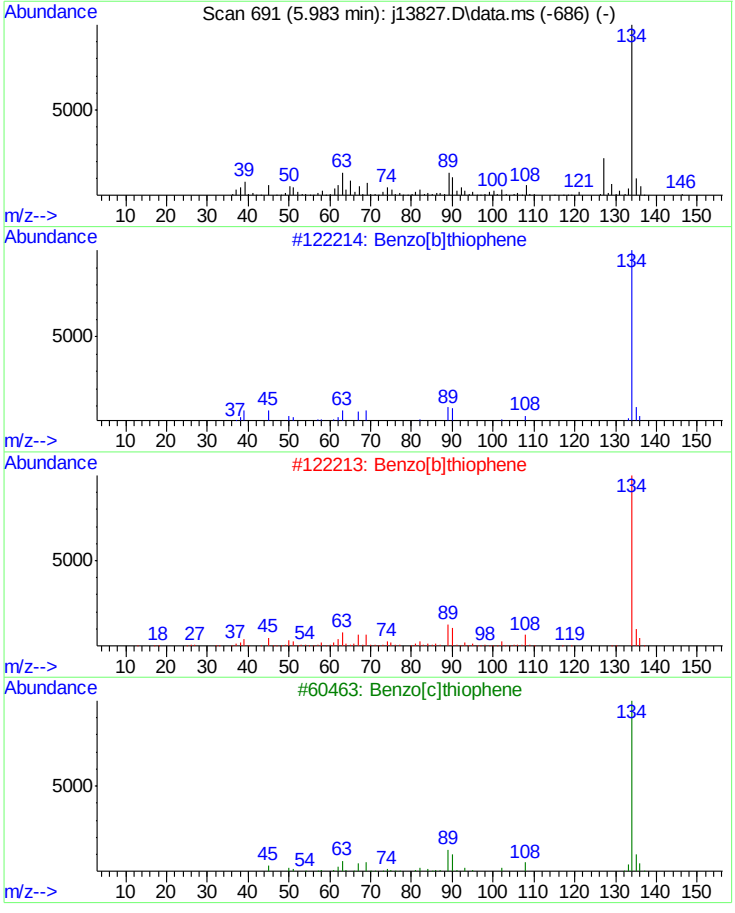
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

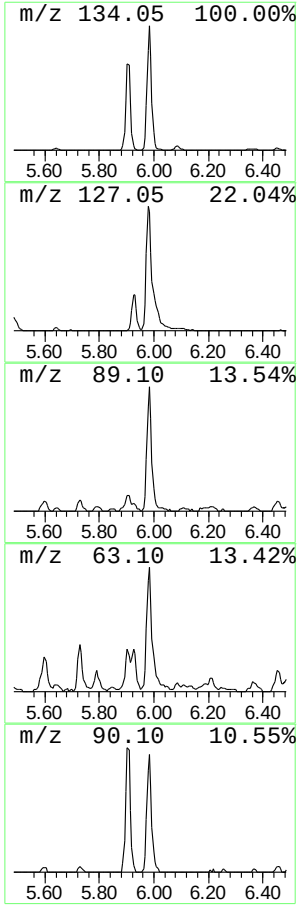
****

Peak Number 3 Benzo[b]thiophene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.983	10.21 ug/ml	1438700	Naphthalene-d8	5.903

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	93
3	Benzo[c]thiophene	134	C8H6S	000270-82-6	93
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	81
5	Benzo[b]thiophene	134	C8H6S	000095-15-8	81





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

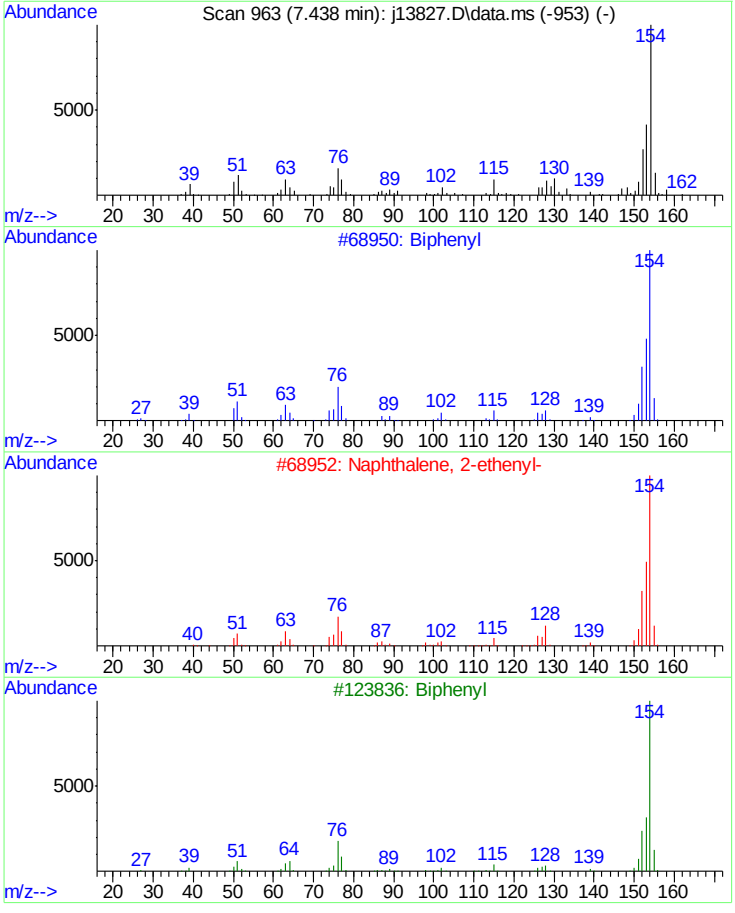
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

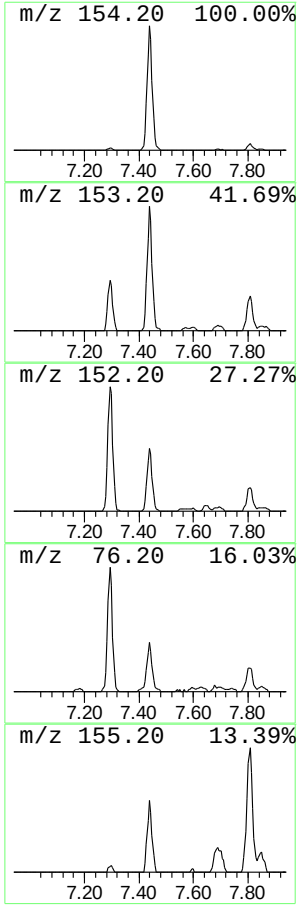
****

Peak Number 4 Biphenyl Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.438	5.39 ug/ml	673584	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenyl	154	C12H10	000092-52-4	96
2	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	94
3	Biphenyl	154	C12H10	000092-52-4	94
4	Biphenyl	154	C12H10	000092-52-4	92
5	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	76





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

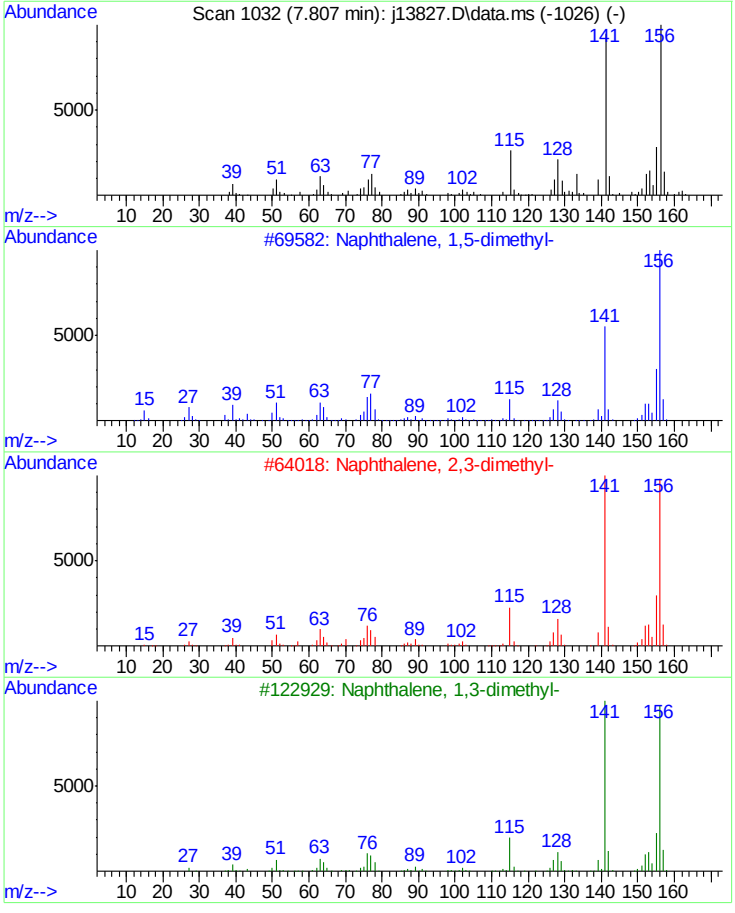
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

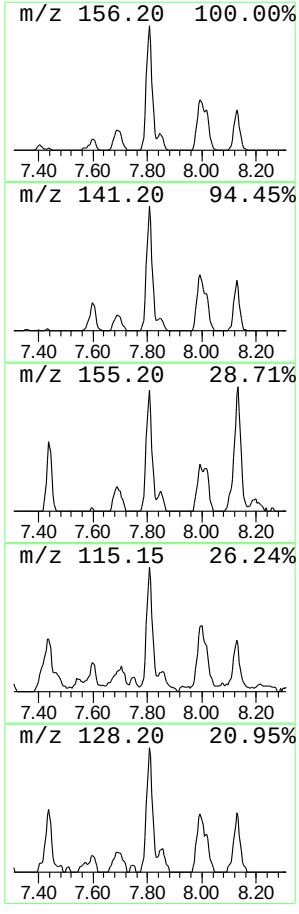
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Naphthalene, 1,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.807	5.42 ug/ml	677961	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

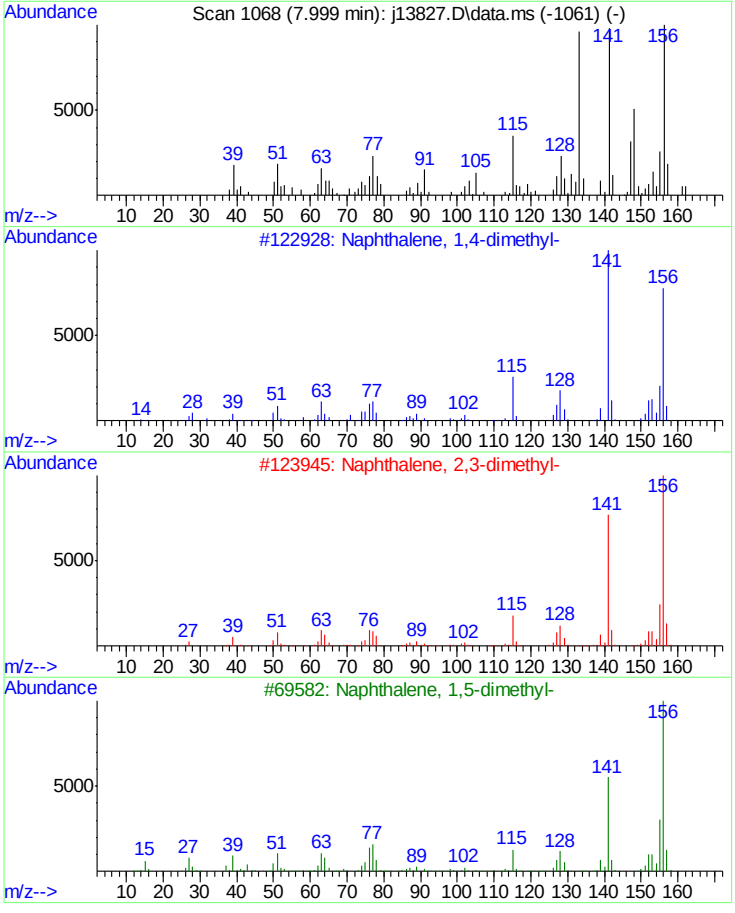
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

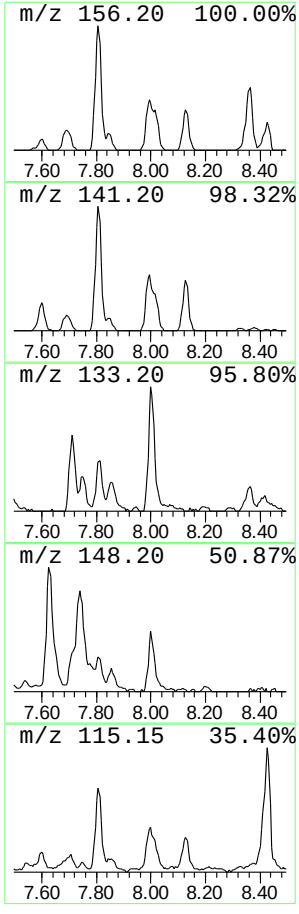
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, 1,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.999	4.36 ug/ml	544946	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	91
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	91
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	91





Library Search Compound Report

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Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

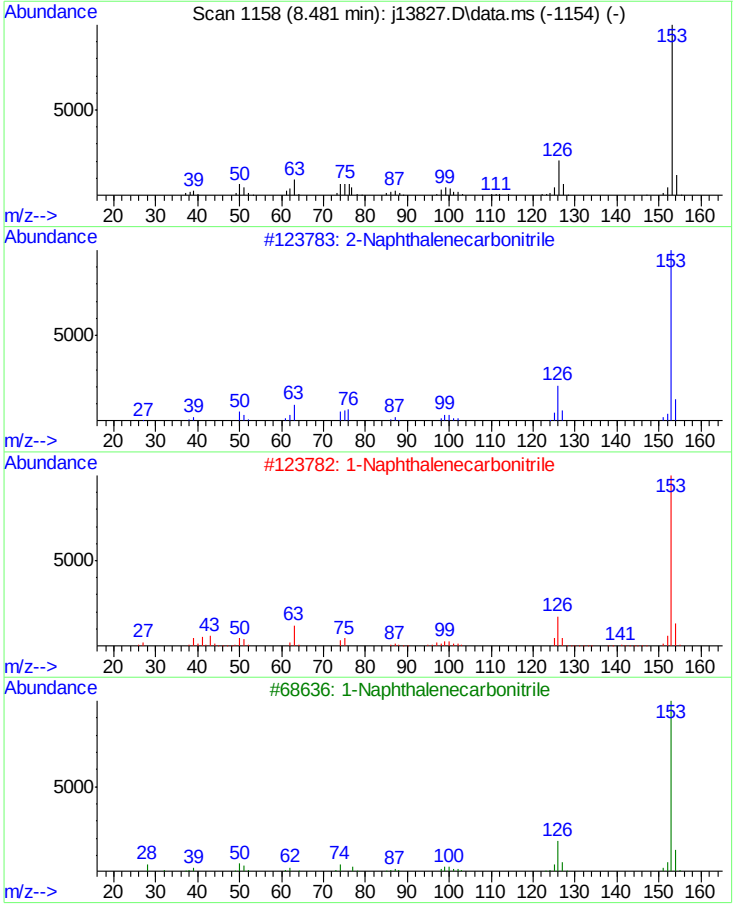
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

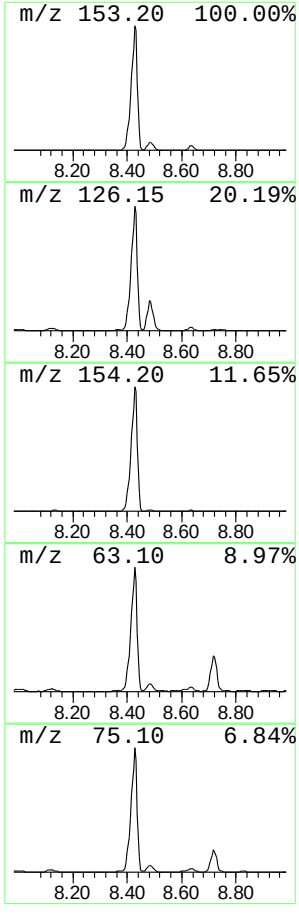
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 2-Naphthalenecarbonitrile Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.481	4.10 ug/ml	512719	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	95
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	90
3	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	87
4	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	87
5	Naphthalene, 1-isocyano-	153	C11H7N	001984-04-9	83





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

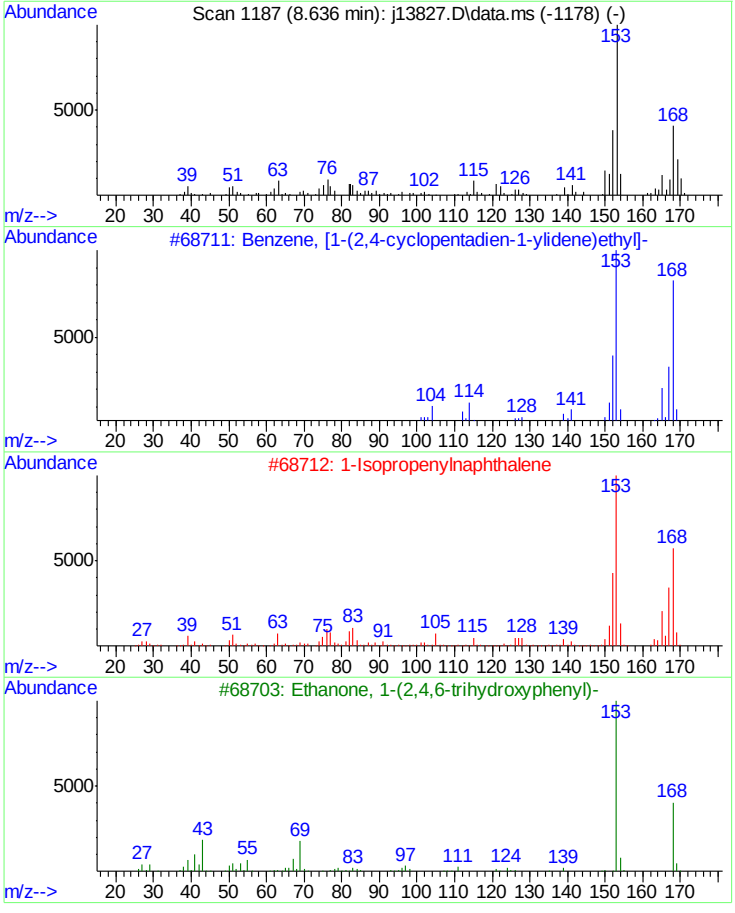
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

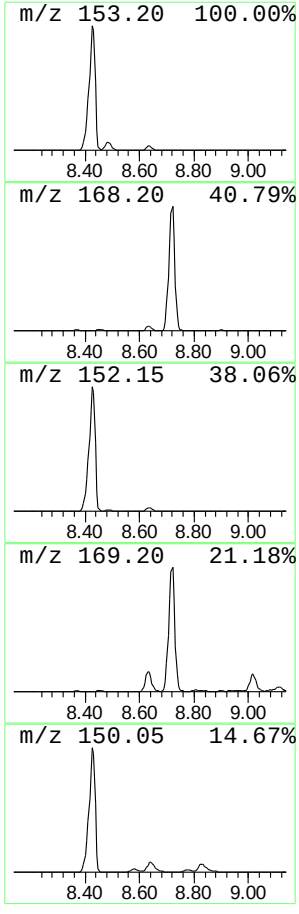
****

Peak Number 8 Benzene, [1-(2,4-cyclopenta... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.636	6.20 ug/ml	775992	Acenaphthene-d10	8.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	59
2	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	45
3	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	43
4	Benzene, 2-chloro-1-methyl-4-(1-...	168	C10H13Cl	004395-79-3	38
5	Benzene, chloromethyl(1-methylet...	168	C10H13Cl	072403-13-5	38





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

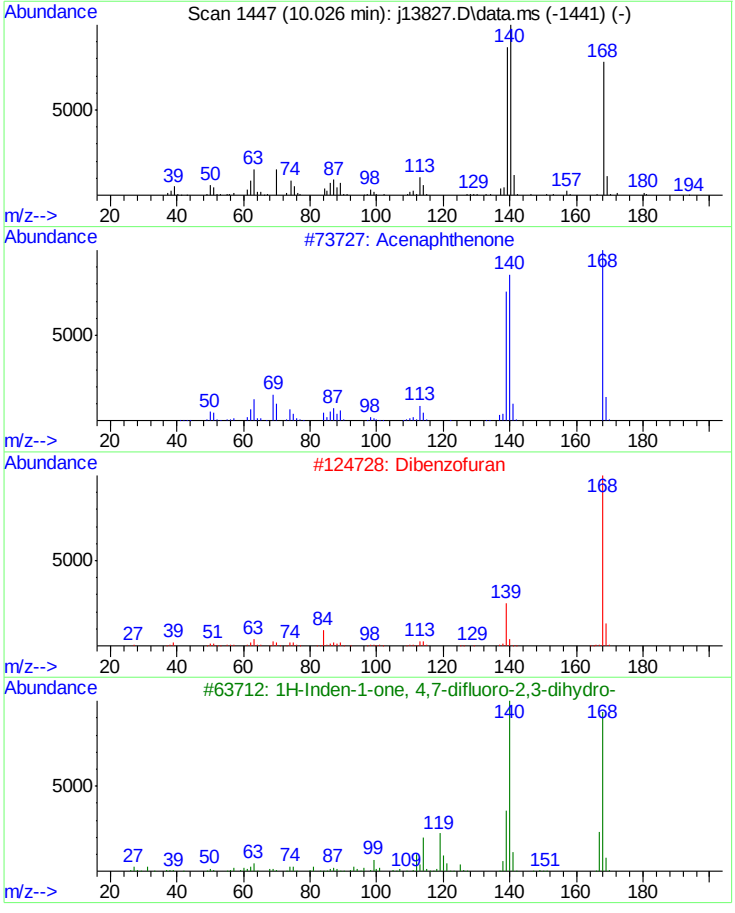
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

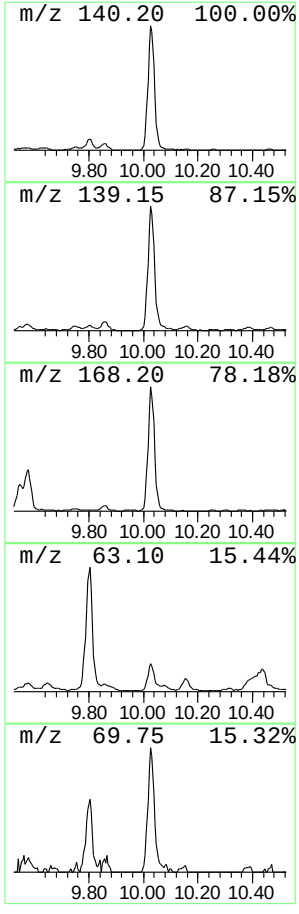
****

Peak Number 9 Acenaphthenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.026	8.68 ug/ml	1090840	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthenone	168	C12H8O	1000128-38-5	97
2	Dibenzofuran	168	C12H8O	000132-64-9	62
3	1H-Inden-1-one, 4,7-difluoro-2,3...	168	C9H6F2O	130408-16-1	53
4	Dibenzofuran	168	C12H8O	000132-64-9	52
5	Dibenzofuran	168	C12H8O	000132-64-9	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 10 Anthracene, 9,10-dihydro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.155	6.29 ug/ml	789905	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	98
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	96
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
4	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	93
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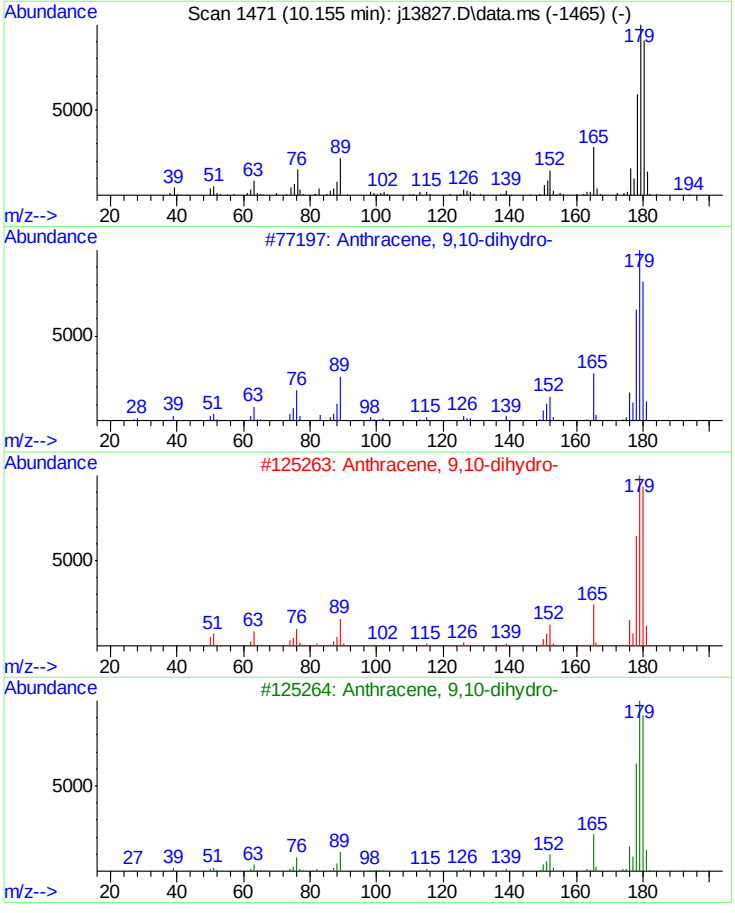

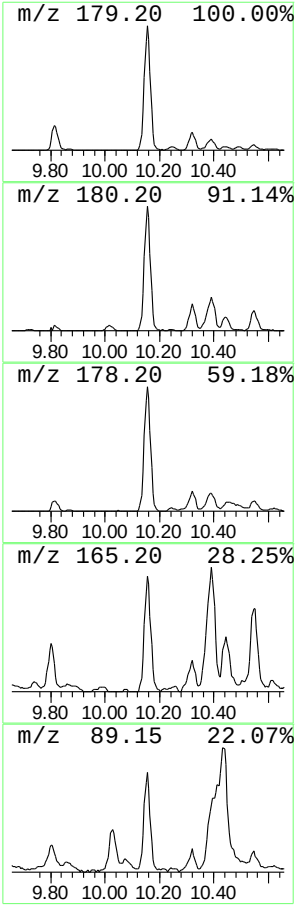

ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 11 9H-Fluorene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.390	4.99 ug/ml	627267	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	94
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	92
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
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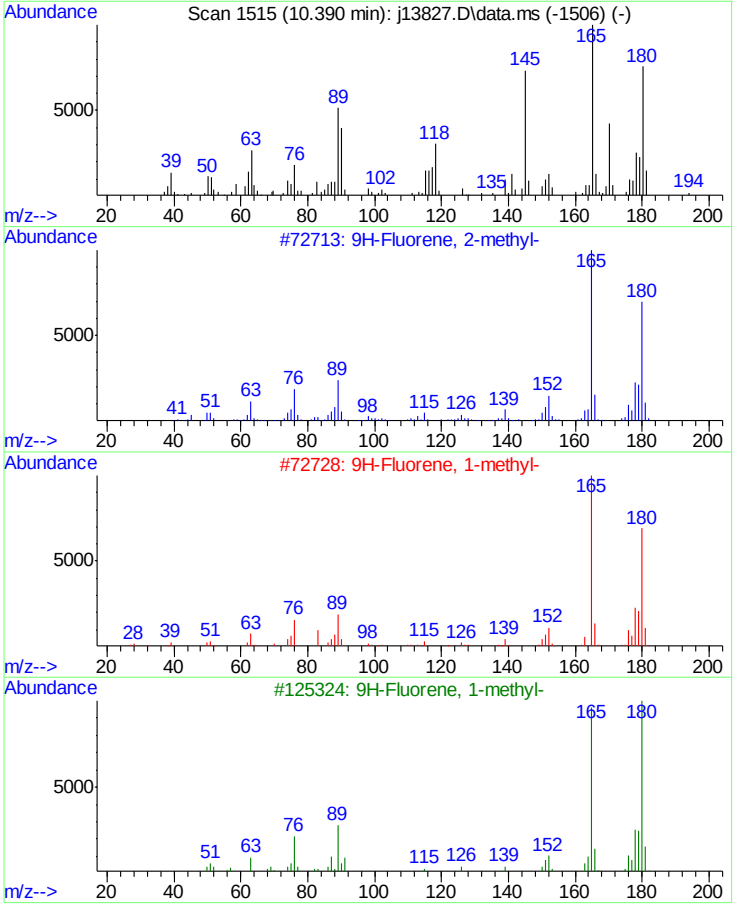
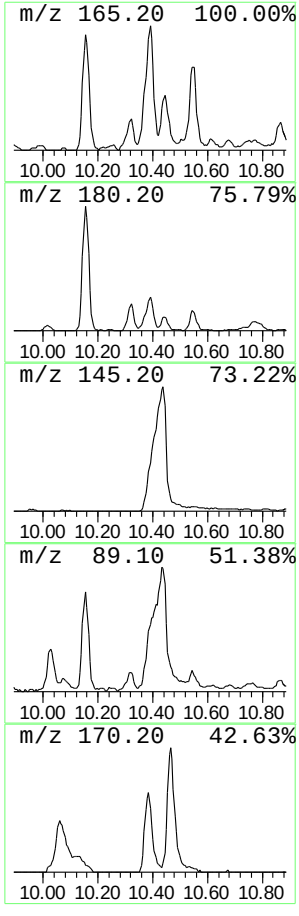




8.1.32 8
ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

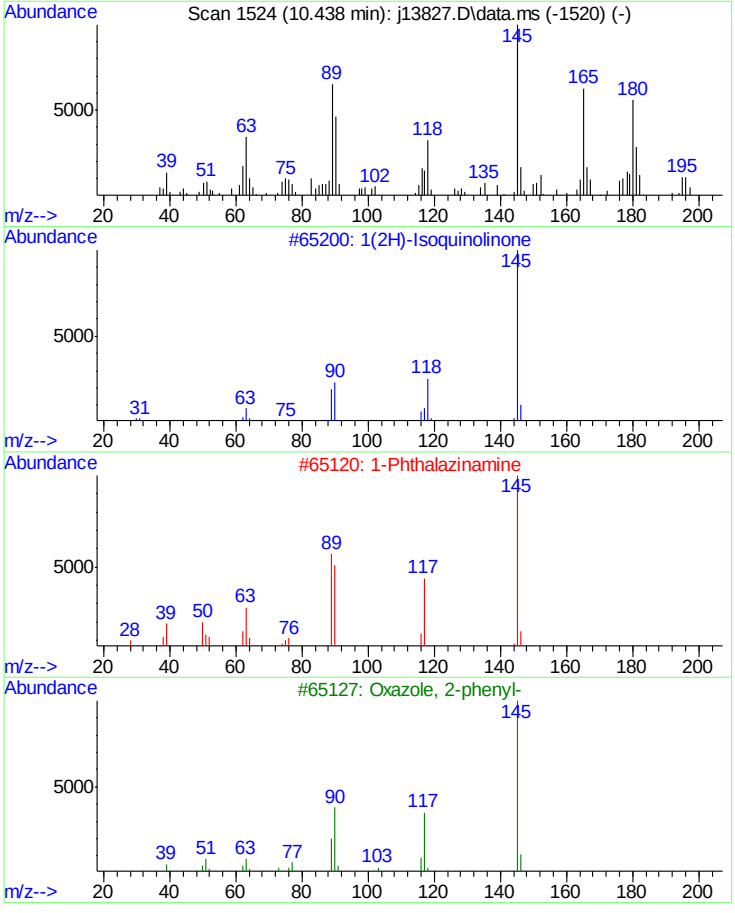
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

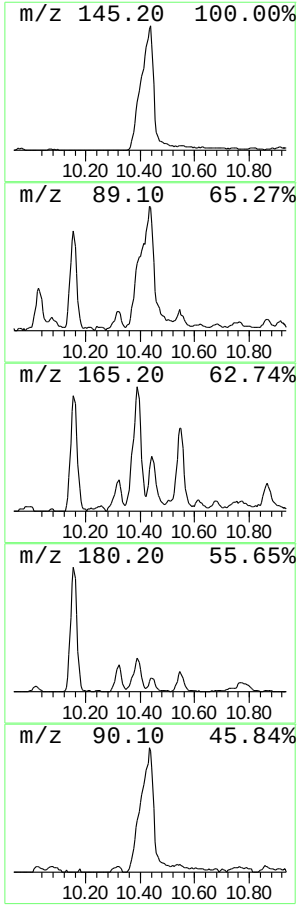
****

Peak Number 12 1(2H)-Isoquinolinone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.438	6.35 ug/ml	797482	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Isoquinolinone	145	C9H7NO	000491-30-5	64
2	1-Phthalazinamine	145	C8H7N3	019064-69-8	53
3	Oxazole, 2-phenyl-	145	C9H7NO	020662-88-8	50
4	Oxyquinoline	145	C9H7NO	000148-24-3	49
5	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	49





Library Search Compound Report

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Data File : j13827.D
Acq On    : 14 Oct 2009   8:34 pm
Operator  : sheilac
Sample    : t39646-11
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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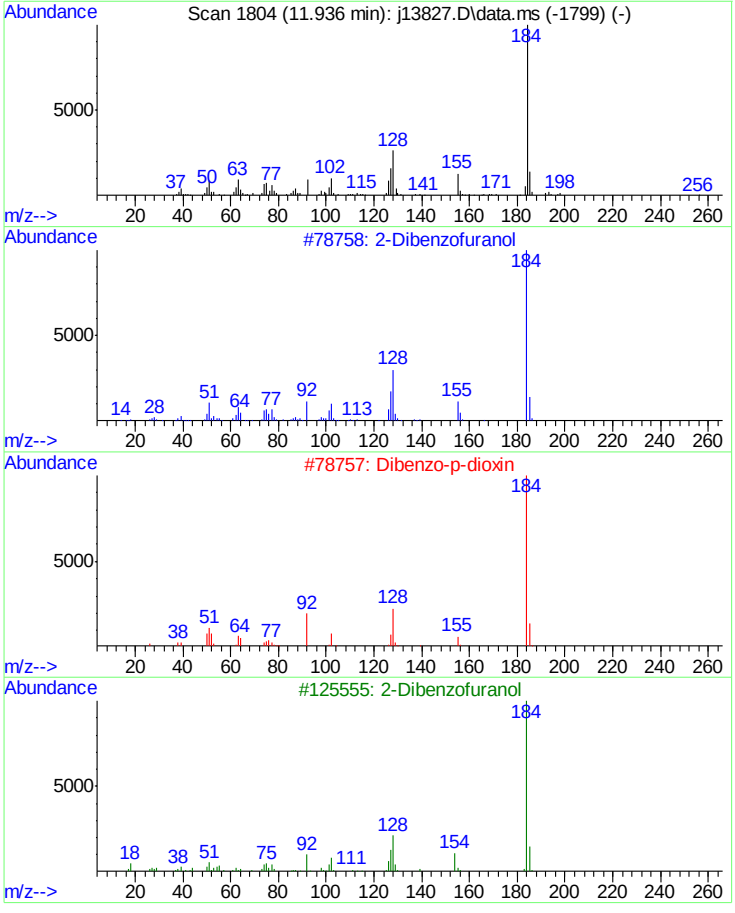
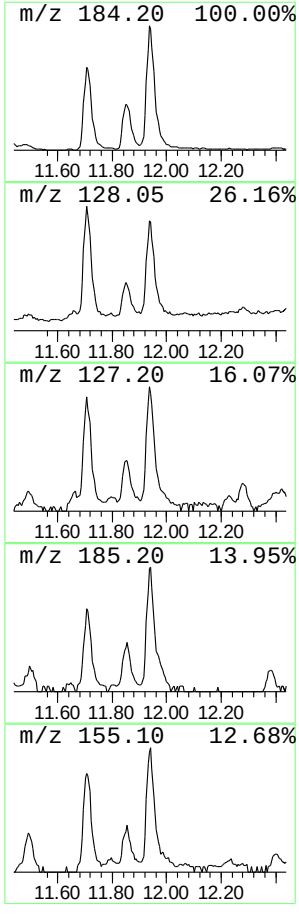
****

Peak Number 13 2-Dibenzofuranol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.936	4.62 ug/ml	580351	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	95
2	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	90
3	2-Dibenzofuranol	184	C12H8O2	000086-77-1	83
4	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	72
5	1,4-Benzenediamine, N-phenyl-	184	C12H12N2	000101-54-2	50





Library Search Compound Report

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Data File : j13827.D
Acq On    : 14 Oct 2009   8:34 pm
Operator  : sheilac
Sample    : t39646-11
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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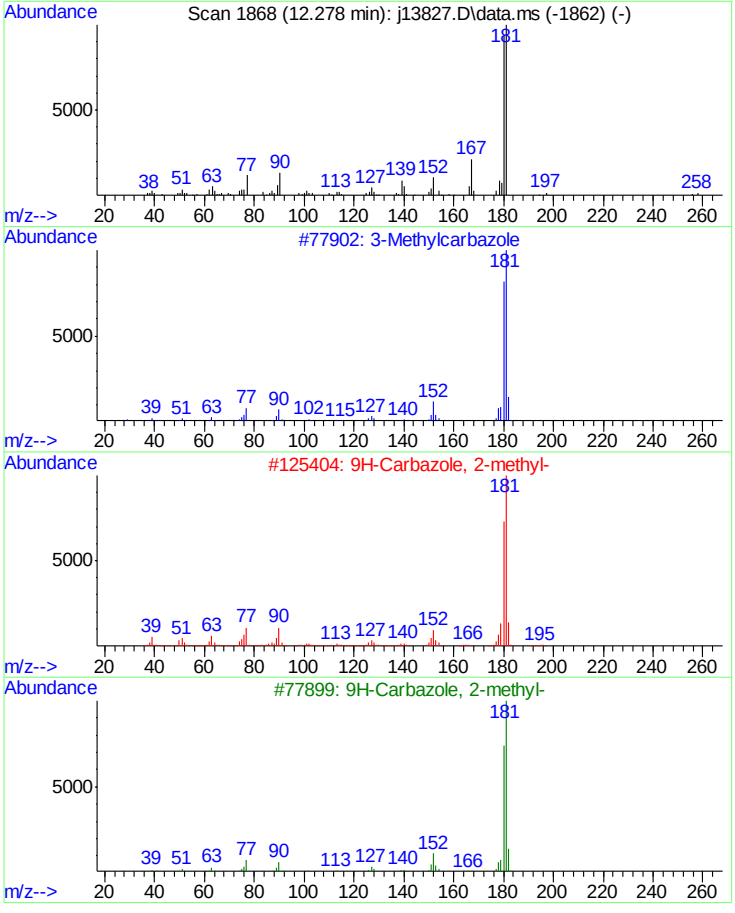
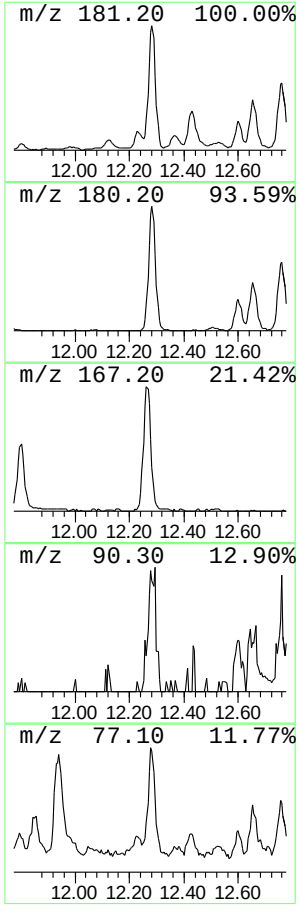
****

Peak Number 14 3-Methylcarbazole Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.278	4.72 ug/ml	593244	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	87
2	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	87
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	87
4	Methylcarbazole	181	C13H11N	027323-29-1	81
5	4-Methylcarbazole	181	C13H11N	003770-48-7	81





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

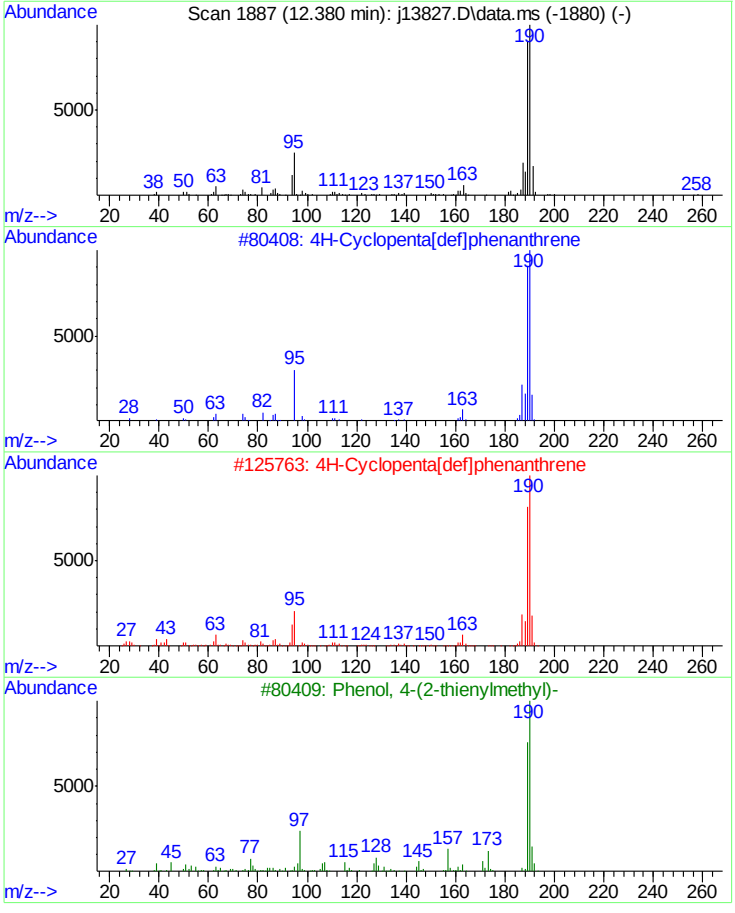
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

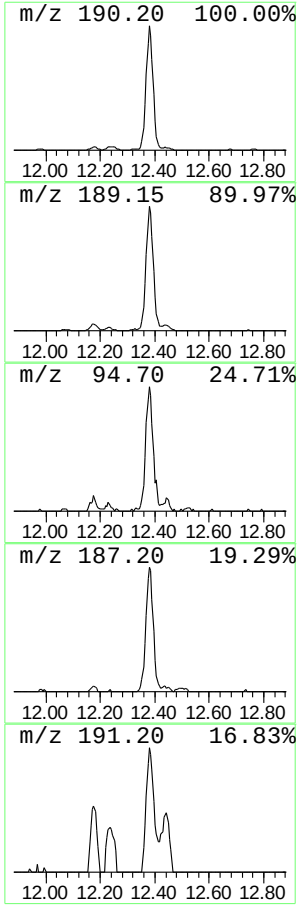
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.380	7.64 ug/ml	959600	Phenanthrene-d10	11.139

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	98
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	98
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	53
4	4-Oxo-2-(4-fluorophenyl)-3,4-dih...	190	C10H7FN2O	076128-79-5	32
5	Cyclohexanone, 2-(2-furanylmethy...	190	C12H14O2	056053-07-7	27





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

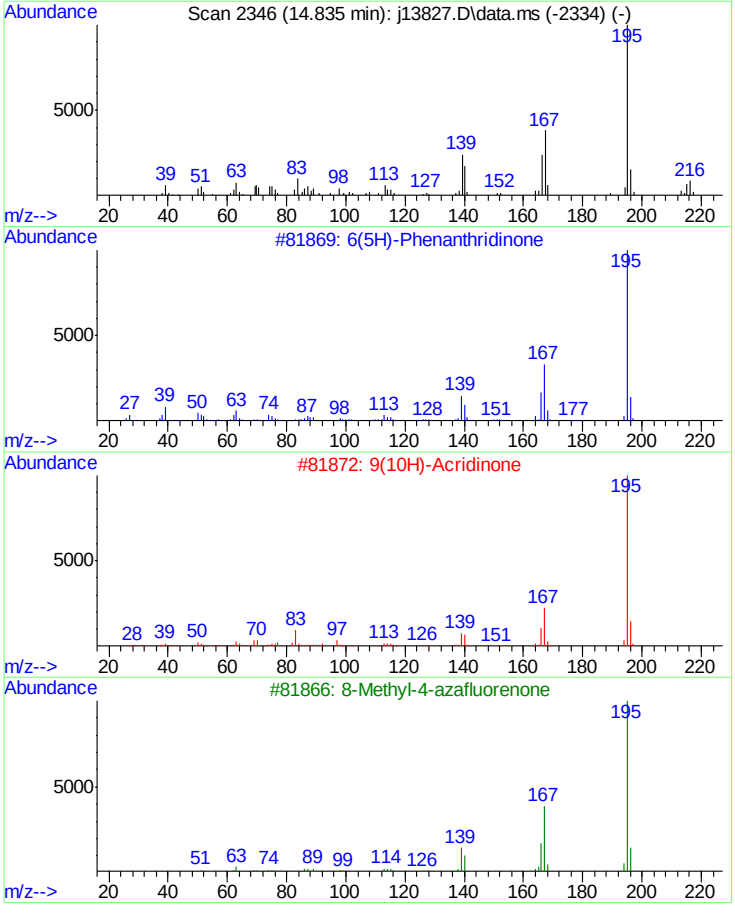
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

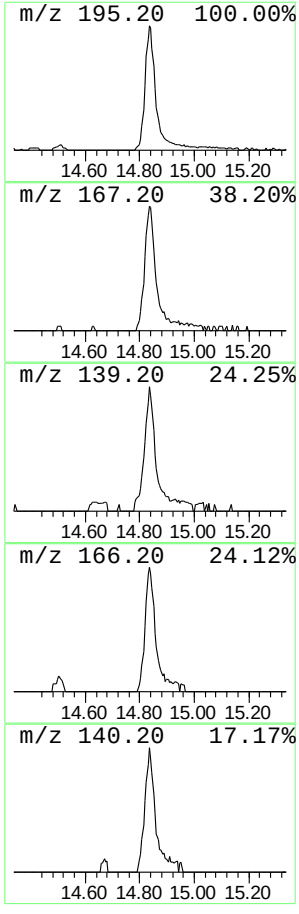
****

Peak Number 16 6(5H)-Phenanthridinone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.835	5.87 ug/ml	441210	Chrysene-d12	16.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	94
2	9(10H)-Acridinone	195	C13H9NO	000578-95-0	93
3	8-Methyl-4-azafluorenone	195	C13H9NO	1000216-52-6	93
4	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	93
5	9(10H)-Acridinone	195	C13H9NO	000578-95-0	91





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13827.D
Acq On : 14 Oct 2009 8:34 pm
Operator : sheilac
Sample : t39646-11
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Phenol, 3,5-dim...	5.325	5.5	ug/ml	772297	2	5.903	5634470	40.0
Phenol, 3,4-dim...	5.726	6.9	ug/ml	972673	2	5.903	5634470	40.0
Benzo[b]thiophene	5.983	10.2	ug/ml	1438700	2	5.903	5634470	40.0
Biphenyl	7.438	5.4	ug/ml	673584	3	8.363	5002730	40.0
Naphthalene, 1,...	7.807	5.4	ug/ml	677961	3	8.363	5002730	40.0
Naphthalene, 1,...	7.999	4.4	ug/ml	544946	3	8.363	5002730	40.0
2-Naphthaleneca...	8.481	4.1	ug/ml	512719	3	8.363	5002730	40.0
Benzene, [1-(2,...	8.636	6.2	ug/ml	775992	3	8.363	5002730	40.0
Acenaphthenone	10.026	8.7	ug/ml	1090840	4	11.139	5026950	40.0
Anthracene, 9,1...	10.155	6.3	ug/ml	789905	4	11.139	5026950	40.0
9H-Fluorene, 2-...	10.390	5.0	ug/ml	627267	4	11.139	5026950	40.0
1(2H)-Isoquinol...	10.438	6.3	ug/ml	797482	4	11.139	5026950	40.0
2-Dibenzofuranol	11.936	4.6	ug/ml	580351	4	11.139	5026950	40.0
3-Methylcarbazole	12.278	4.7	ug/ml	593244	4	11.139	5026950	40.0
4H-Cyclopenta[d...	12.380	7.6	ug/ml	959600	4	11.139	5026950	40.0
6(5H)-Phenanthr...	14.835	5.9	ug/ml	441210	5	16.653	3006070	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35594.D Vial: 16
Acq On : 23 Oct 2009 5:56 pm Operator: sheilac
Sample : t39646-1,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:13 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	101956	4.00	ppb	0.00
4) Naphthalene-d8	7.69	136	375050	4.00	ppb	0.09
9) Acenaphthene-d10	9.57	164	36621	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	64740	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	6988	4.00	ppb	0.00
26) Perylene-d12	16.37	264	4397	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	45297	2.93	ppb	-0.05
Spiked Amount 5.000	Range 17 - 131		Recovery = 58.60%			
10) 2-Fluorobiphenyl	8.87	172	304391m	15.04	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 300.80%#			
16) 2,4,6-Tribromophenol	10.42	330	57945	31.04	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 310.40%#			
23) Terphenyl-d14	12.66	244	25652	12.88	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 257.60%#			

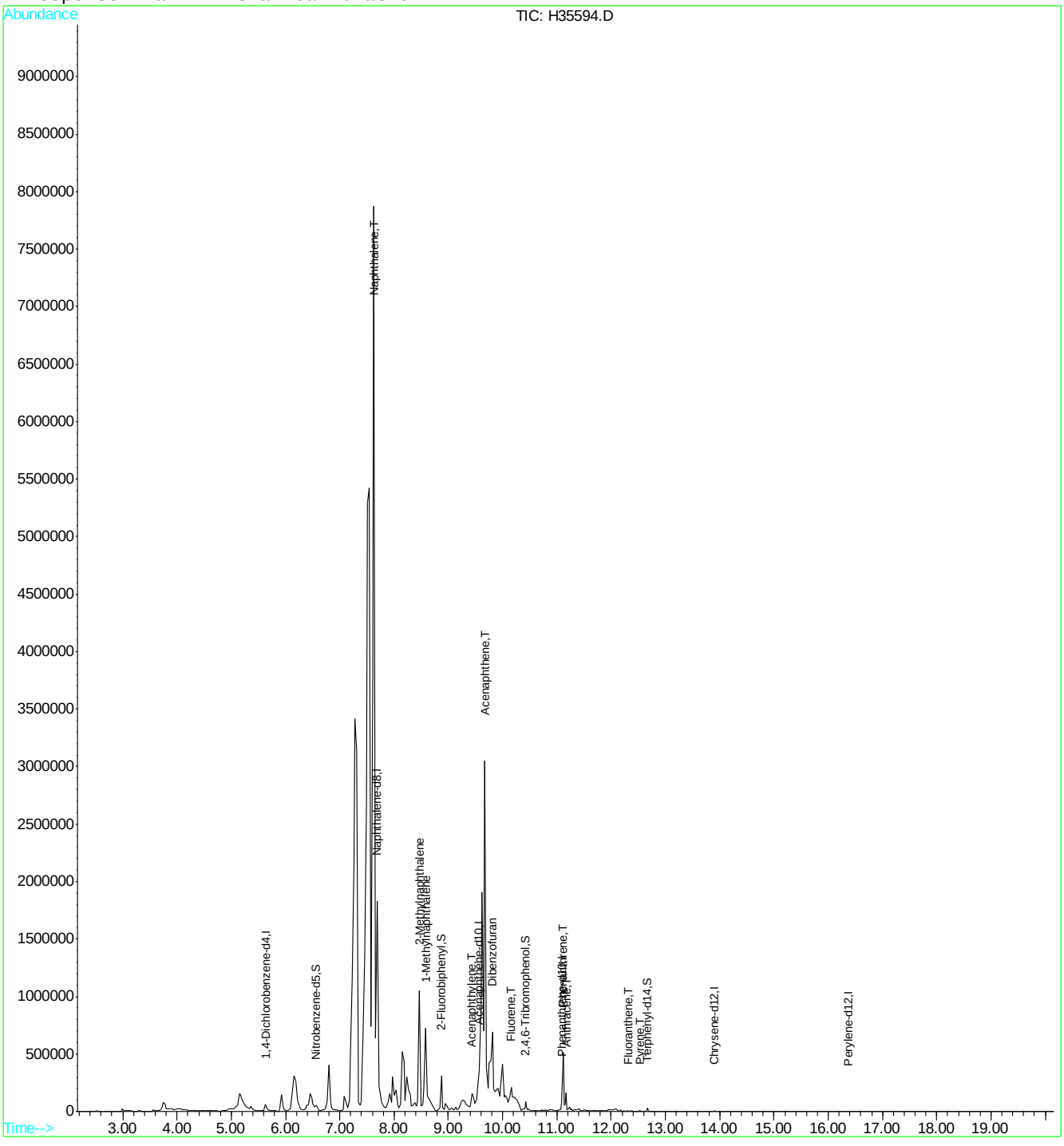
Target Compounds							Qvalue
6) Naphthalene	7.63	128	15053055	119.92	ppb		98
7) 2-Methylnaphthalene	8.46	142	1098753m	9.04	ppb		
8) 1-Methylnaphthalene	8.58	142	539627	3.87	ppb	#	68
11) Acenaphthylene	9.43	152	50759	2.14	ppb	#	52
12) Acenaphthene	9.68	153	3894504	190.61	ppb	#	19
13) Dibenzofuran	9.81	168	883223	46.52	ppb	#	78
14) Fluorene	10.16	166	170135	17.56	ppb	#	73
18) Phenanthrene	11.11	178	455594m	16.11	ppb		
19) Anthracene	11.17	178	70618m	2.15	ppb		
20) Fluoranthene	12.31	202	12147	0.96	ppb	#	85
22) Pyrene	12.52	202	9864	0.86	ppb		98

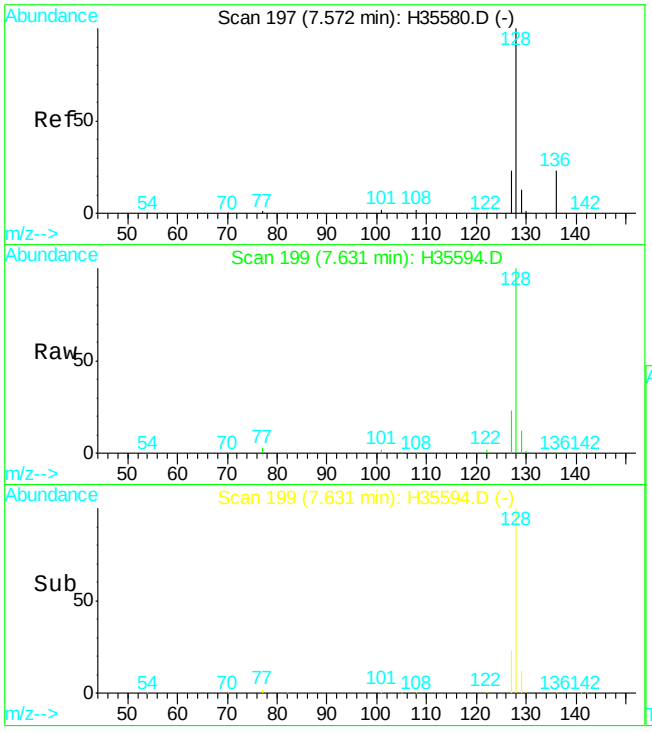
(#) = qualifier out of range (m) = manual integration
H35594.D H10239SP.M Mon Oct 26 12:22:27 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35594.D Vial: 16
Acq On : 23 Oct 2009 5:56 pm Operator: sheilac
Sample : t39646-1,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:13 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Initial Calibration

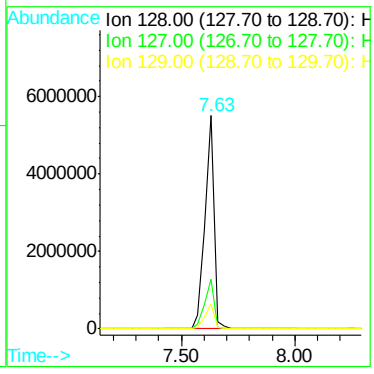


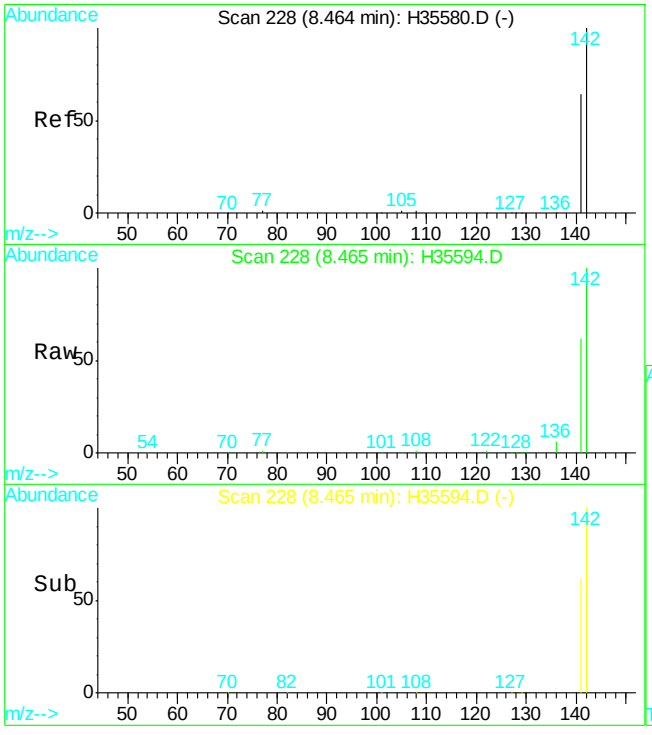


#6
Naphthalene
Concen: 119.92 ppb
RT: 7.63 min Scan# 199
Delta R.T. -0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:128 Resp:15053055

Ion	Ratio	Lower	Upper
128	100		
127	23.1	15.3	28.5
129	11.9	8.5	15.9

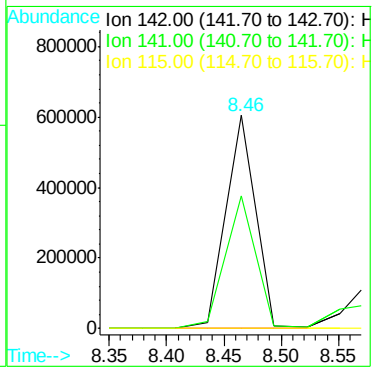


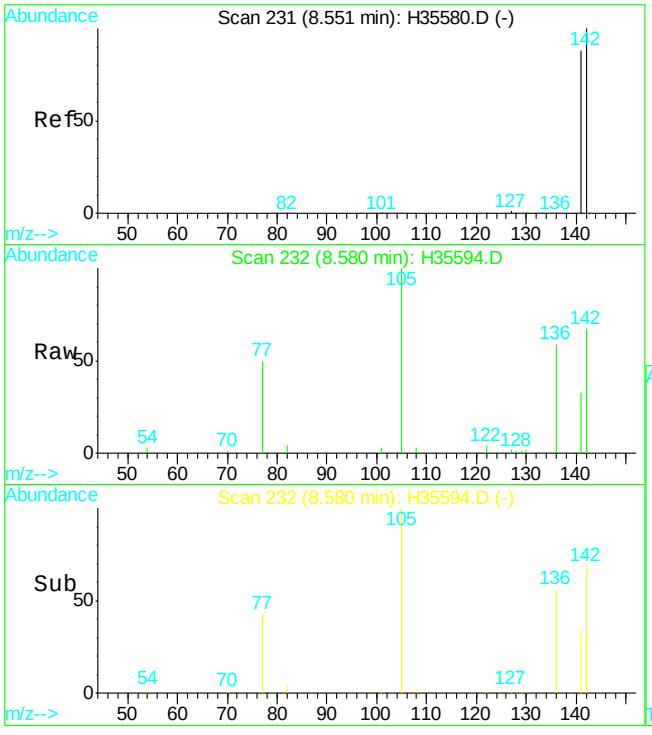


#7
2-Methylnaphthalene
Concen: 9.04 ppb m
RT: 8.46 min Scan# 228
Delta R.T. -0.06 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:142 Resp: 1098753

Ion	Ratio	Lower	Upper
142	100		
141	27.8	104.0	193.1#
115	0.0	0.0	0.0

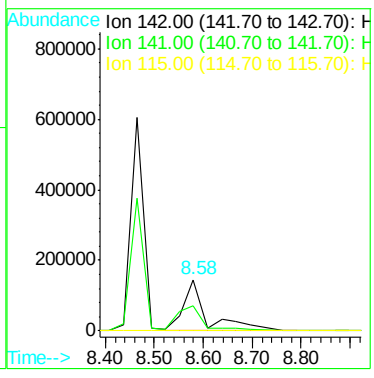


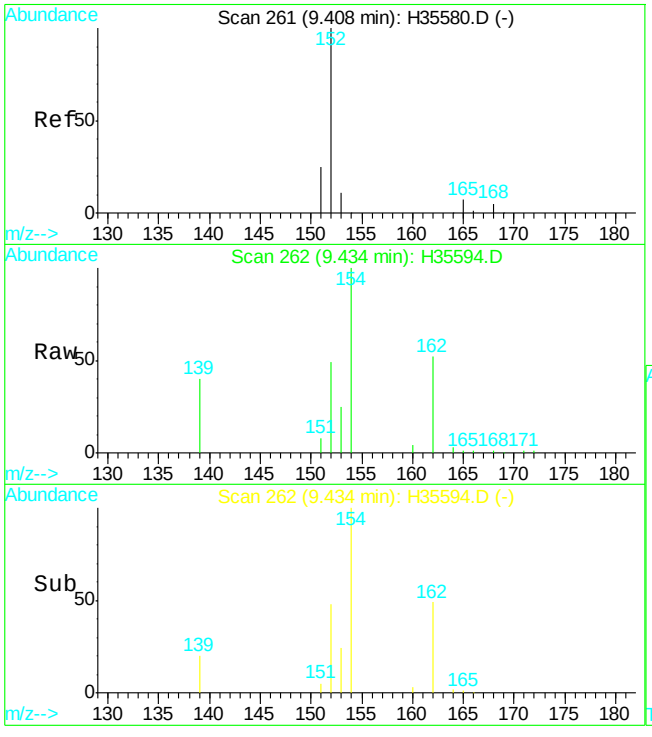


#8
1-Methylnaphthalene
Concen: 3.87 ppb
RT: 8.58 min Scan# 232
Delta R.T. -0.04 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:142 Resp: 539627

Ion	Ratio	Lower	Upper
142	100		
141	56.7	60.5	112.5#
115	0.0	0.0	0.0

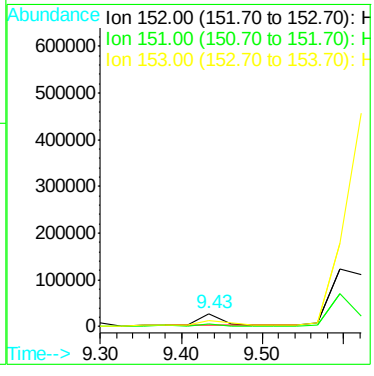


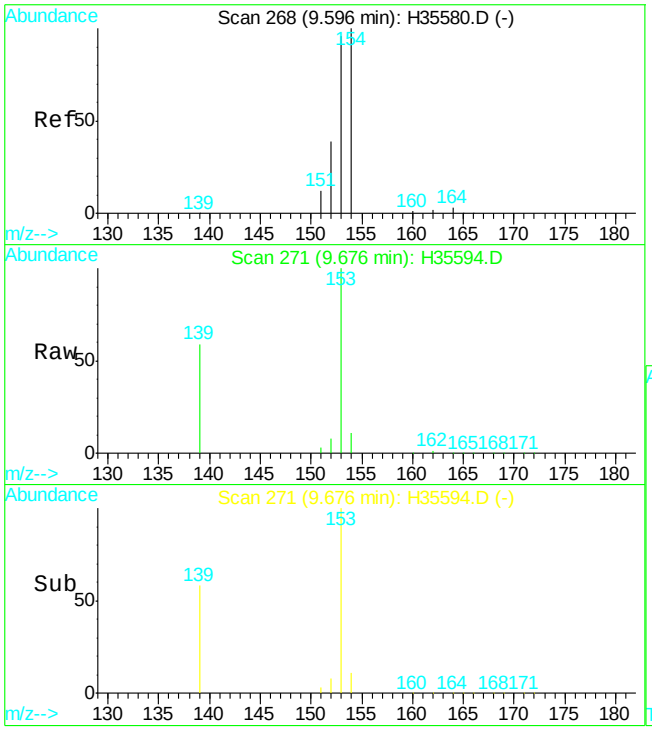


#11
Acenaphthylene
Concen: 2.14 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:152 Resp: 50759

Ion	Ratio	Lower	Upper
152	100		
151	11.2	17.8	33.0#
153	46.3	7.4	13.8#

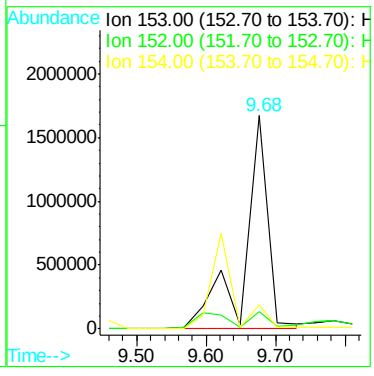


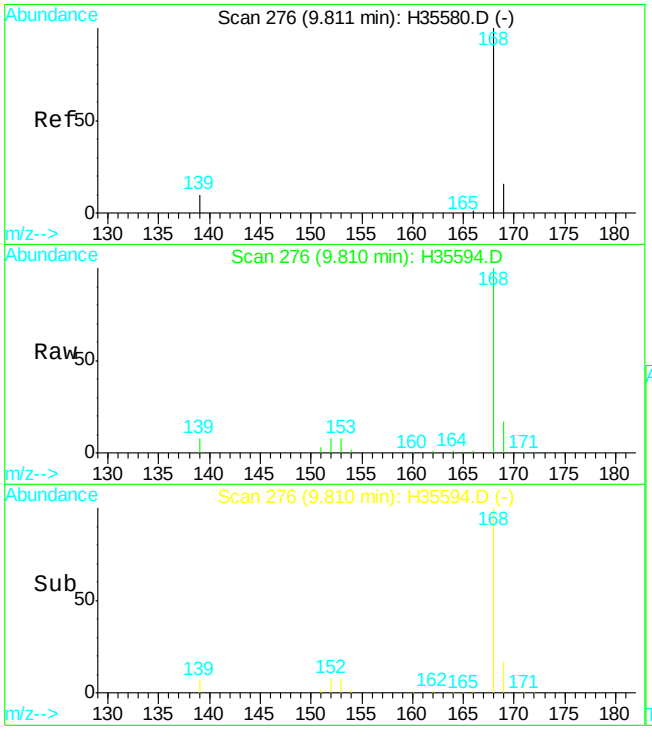


#12
Acenaphthene
Concen: 190.61 ppb
RT: 9.68 min Scan# 271
Delta R.T. 0.08 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:153 Resp: 3894504

Ion	Ratio	Lower	Upper
153	100		
152	7.5	28.7	53.3#
154	10.9	72.9	135.5#

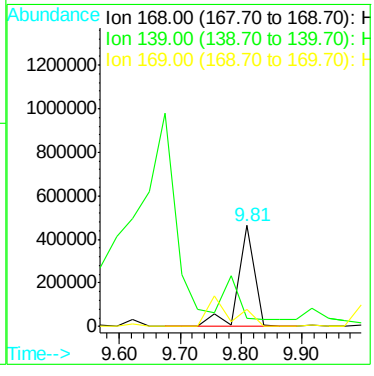


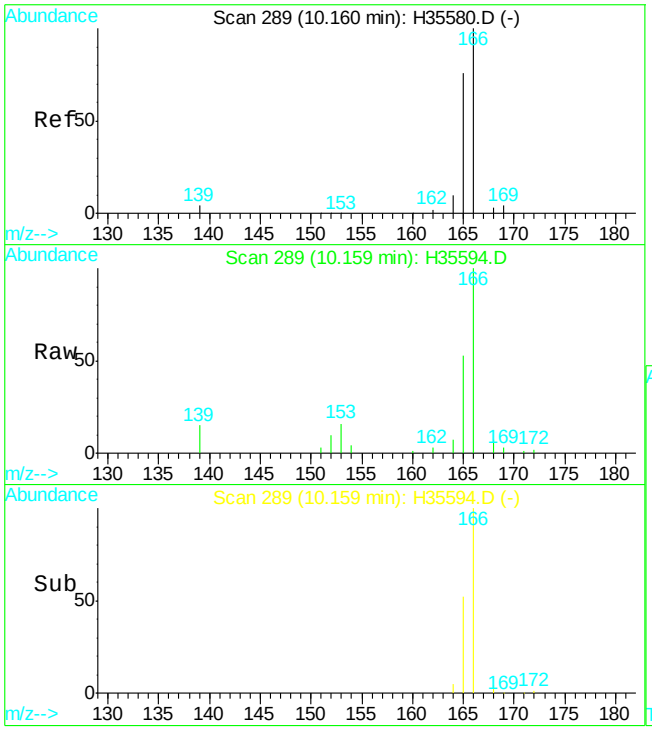


#13
Dibenzofuran
Concen: 46.52 ppb
RT: 9.81 min Scan# 276
Delta R.T. -0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:168 Resp: 883223

Ion	Ratio	Lower	Upper
168	100		
139	51.7	33.7	62.5
169	46.4	9.8	18.2#

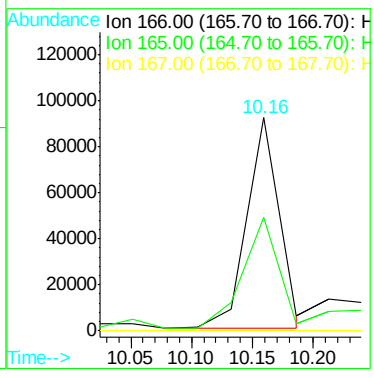


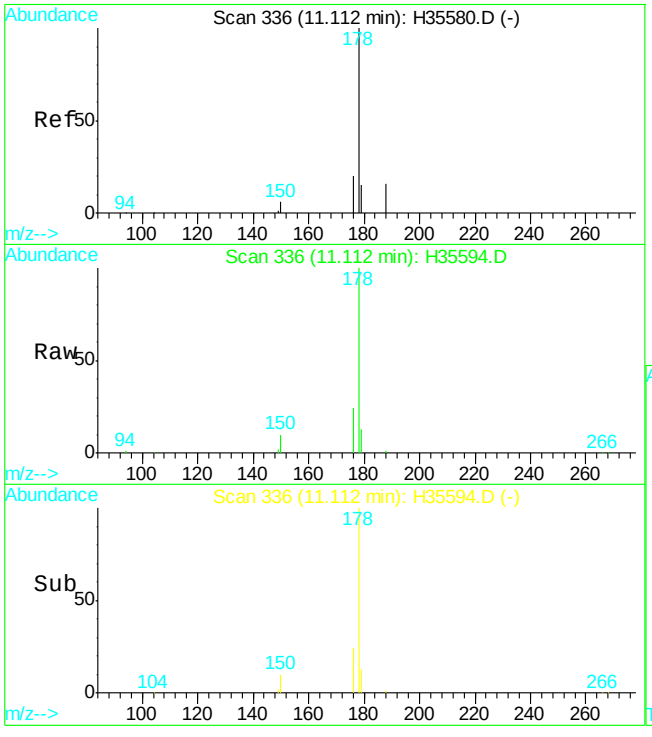


#14
Fluorene
Concen: 17.56 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:166 Resp: 170135

Ion	Ratio	Lower	Upper
166	100		
165	53.1	53.1	98.7#
167	0.0	0.0	0.0

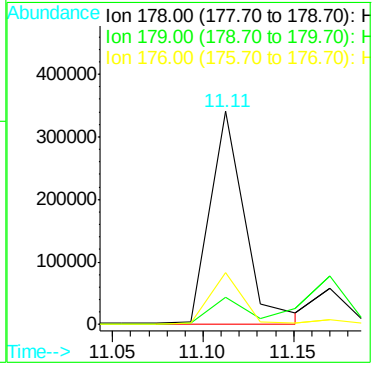


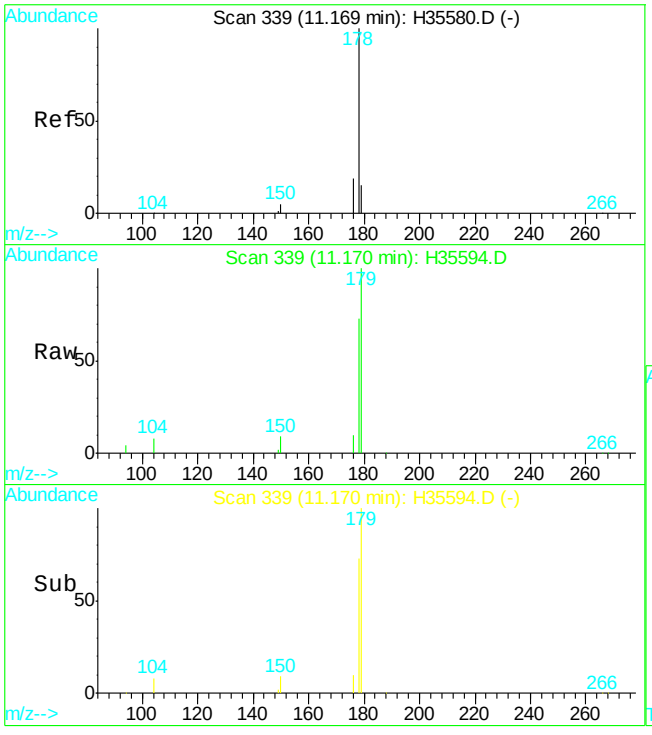


#18
Phenanthrene
Concen: 16.11 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:178 Resp: 455594

Ion	Ratio	Lower	Upper
178	100		
179	12.7	10.6	19.6
176	24.3	13.7	25.5

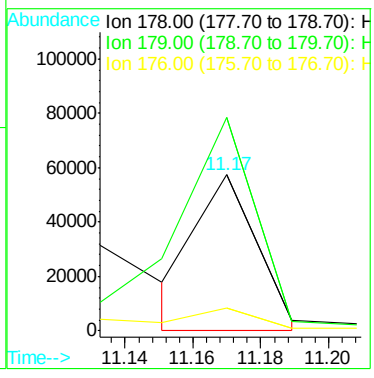


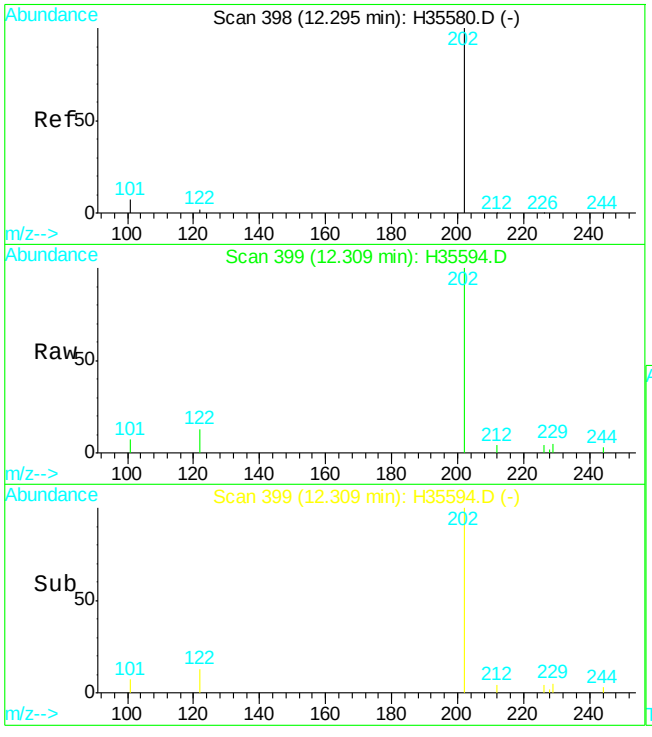


#19
Anthracene
Concen: 2.15 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:178 Resp: 70618

Ion	Ratio	Lower	Upper
178	100		
179	136.7	10.6	19.6#
176	14.3	13.3	24.7

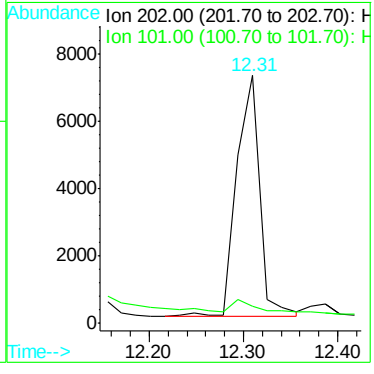


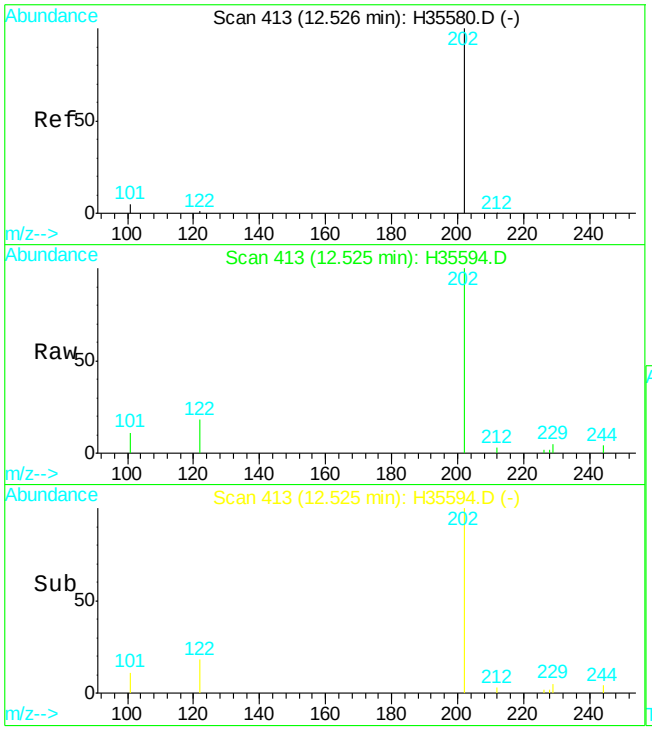


#20
Fluoranthene
Concen: 0.96 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:202 Resp: 12147

Ion	Ratio	Lower	Upper
202	100		
101	1.6	4.6	8.6#

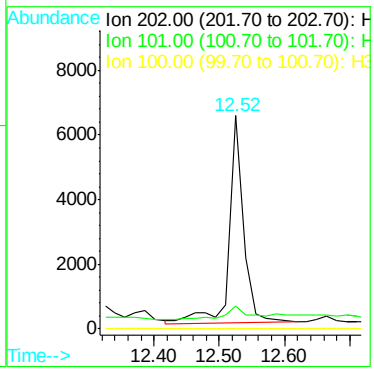




#22
Pyrene
Concen: 0.86 ppb
RT: 12.52 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35594.D
Acq: 23 Oct 2009 5:56 pm

Tgt Ion:202 Resp: 9864

Ion	Ratio	Lower	Upper
202	100		
101	5.6	3.5	6.5
100	0.0	0.0	0.0



8.1.33

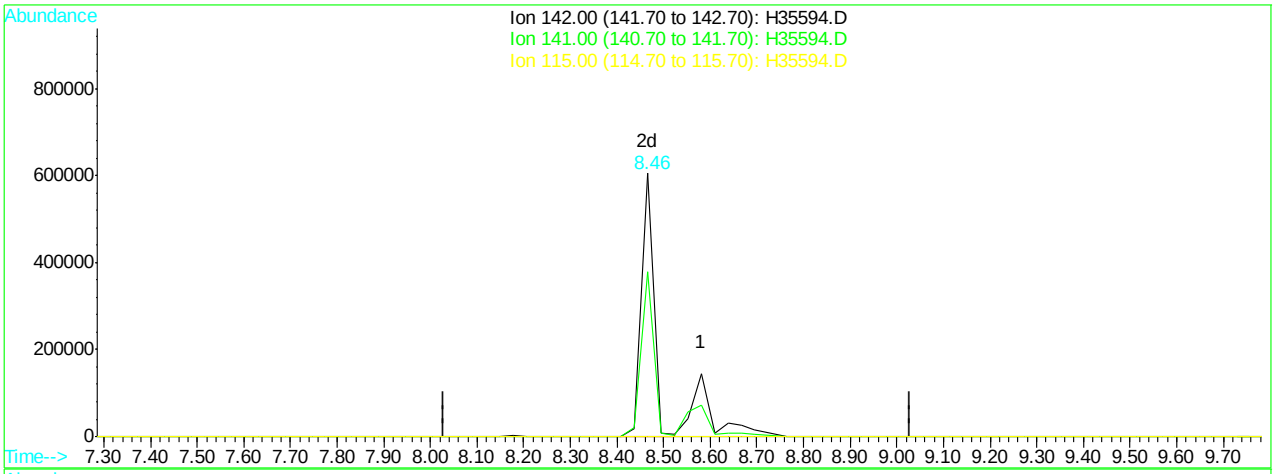
8

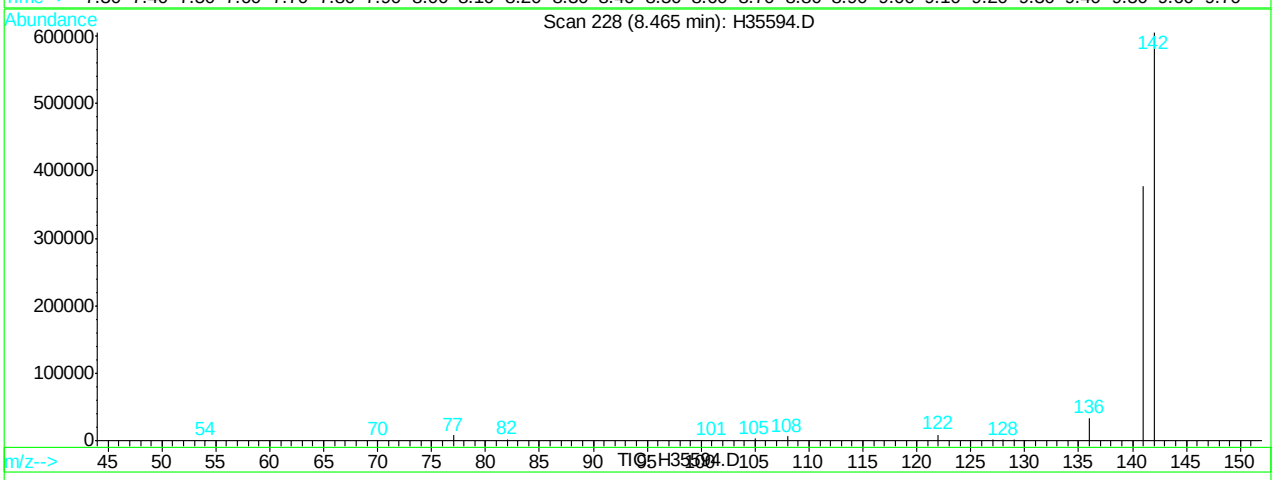
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35594.D Vial: 16
Acq On : 23 Oct 2009 5:56 pm Operator: sheilac
Sample : t39646-1,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 9.04ppb m

response 1098753

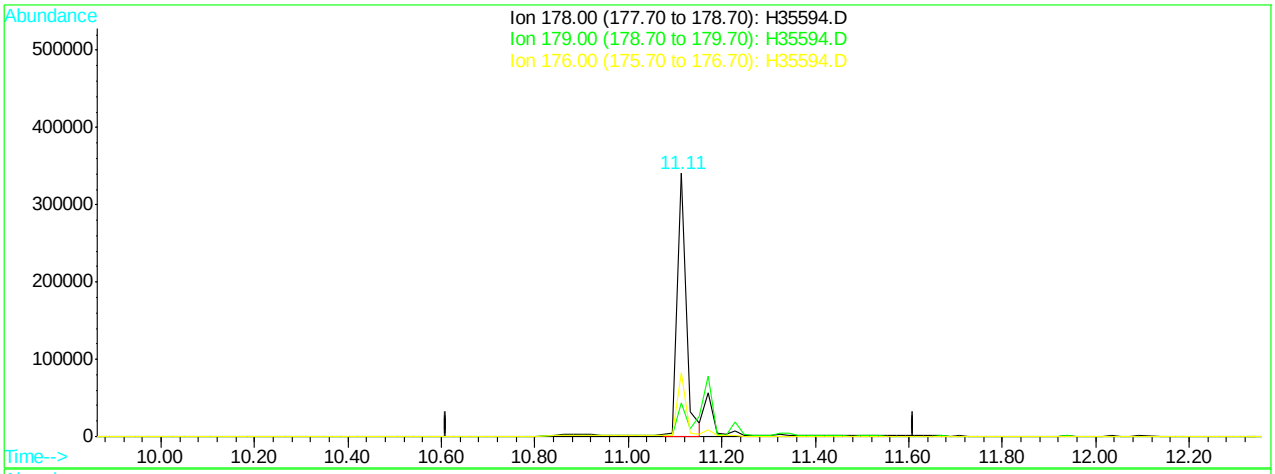
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	27.85#
115.00	0.00	0.00
0.00	0.00	0.00

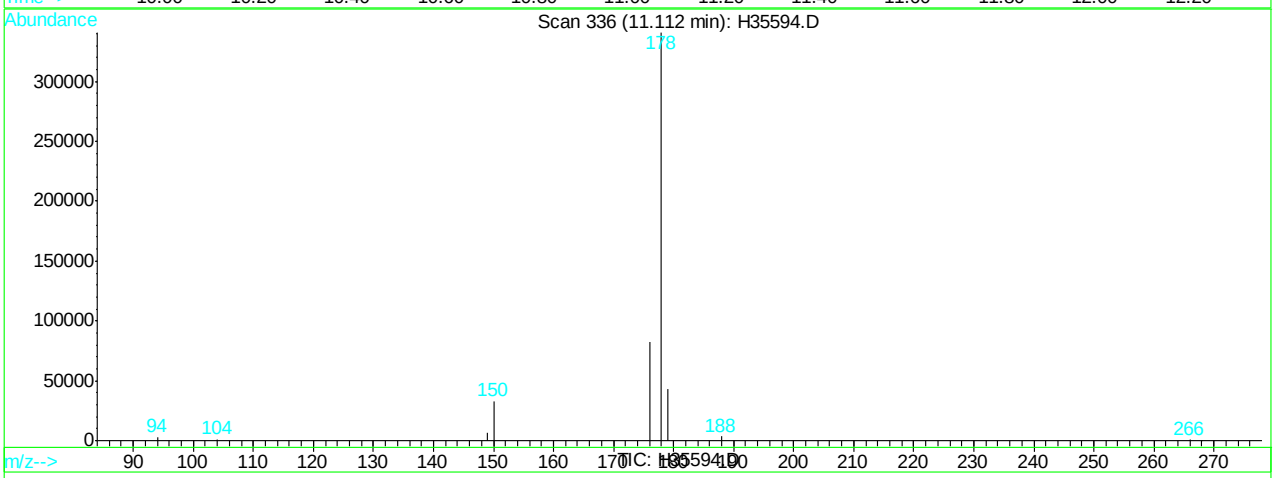
H35594.D H10239SP.M Mon Oct 26 12:22:37 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35594.D Vial: 16
Acq On : 23 Oct 2009 5:56 pm Operator: sheilac
Sample : t39646-1,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 16.11ppb m

response 455594

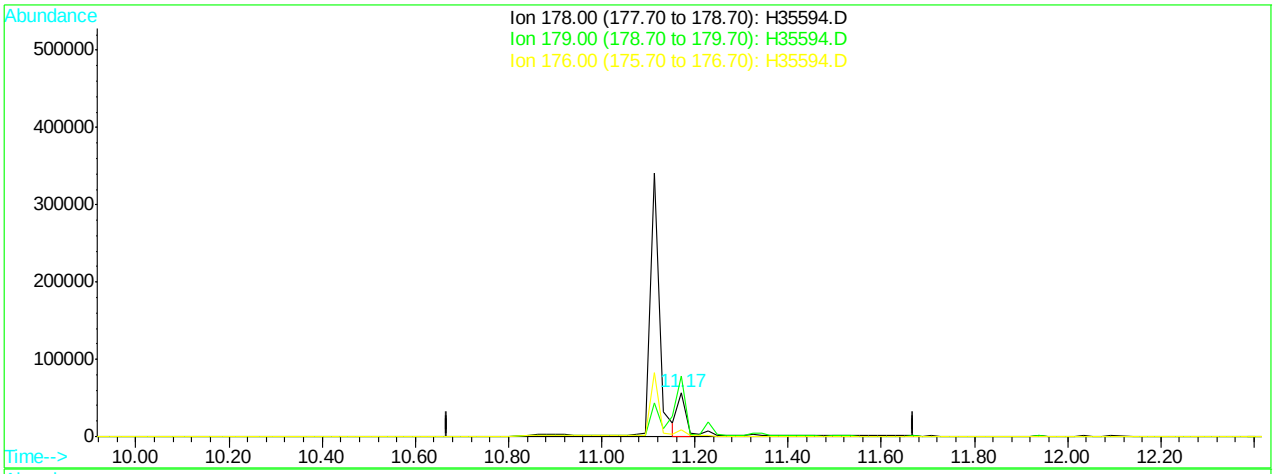
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	12.67
176.00	19.60	24.27
0.00	0.00	0.00

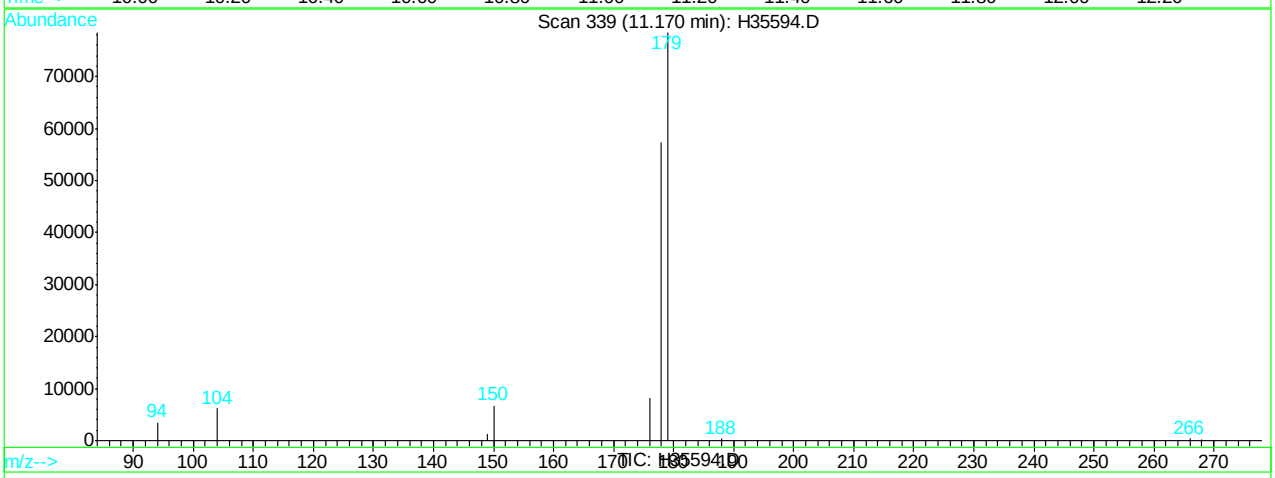
H35594.D H10239SP.M Mon Oct 26 12:22:43 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35594.D Vial: 16
Acq On : 23 Oct 2009 5:56 pm Operator: sheilac
Sample : t39646-1,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 2.15ppb m

response 70618

Ion	Exp%	Act%
178.00	100	100
179.00	15.10	136.73#
176.00	19.00	14.31
0.00	0.00	0.00

H35594.D H10239SP.M Mon Oct 26 12:22:47 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:47:20 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	83199	4.00	ppb	0.05
4) Naphthalene-d8	7.60	136	94813	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	35438	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	90670	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	9377	4.00	ppb	0.00
26) Perylene-d12	16.38	264	3580	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.68	82	58285m	16.68	ppb	0.06
Spiked Amount 5.000	Range 17 - 131		Recovery	=	333.60%#	
10) 2-Fluorobiphenyl	8.87	172	101973m	6.36	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	127.20%	
16) 2,4,6-Tribromophenol	10.42	330	40062	15.32	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	153.20%#	
23) Terphenyl-d14	12.66	244	22849	9.83	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	196.60%#	

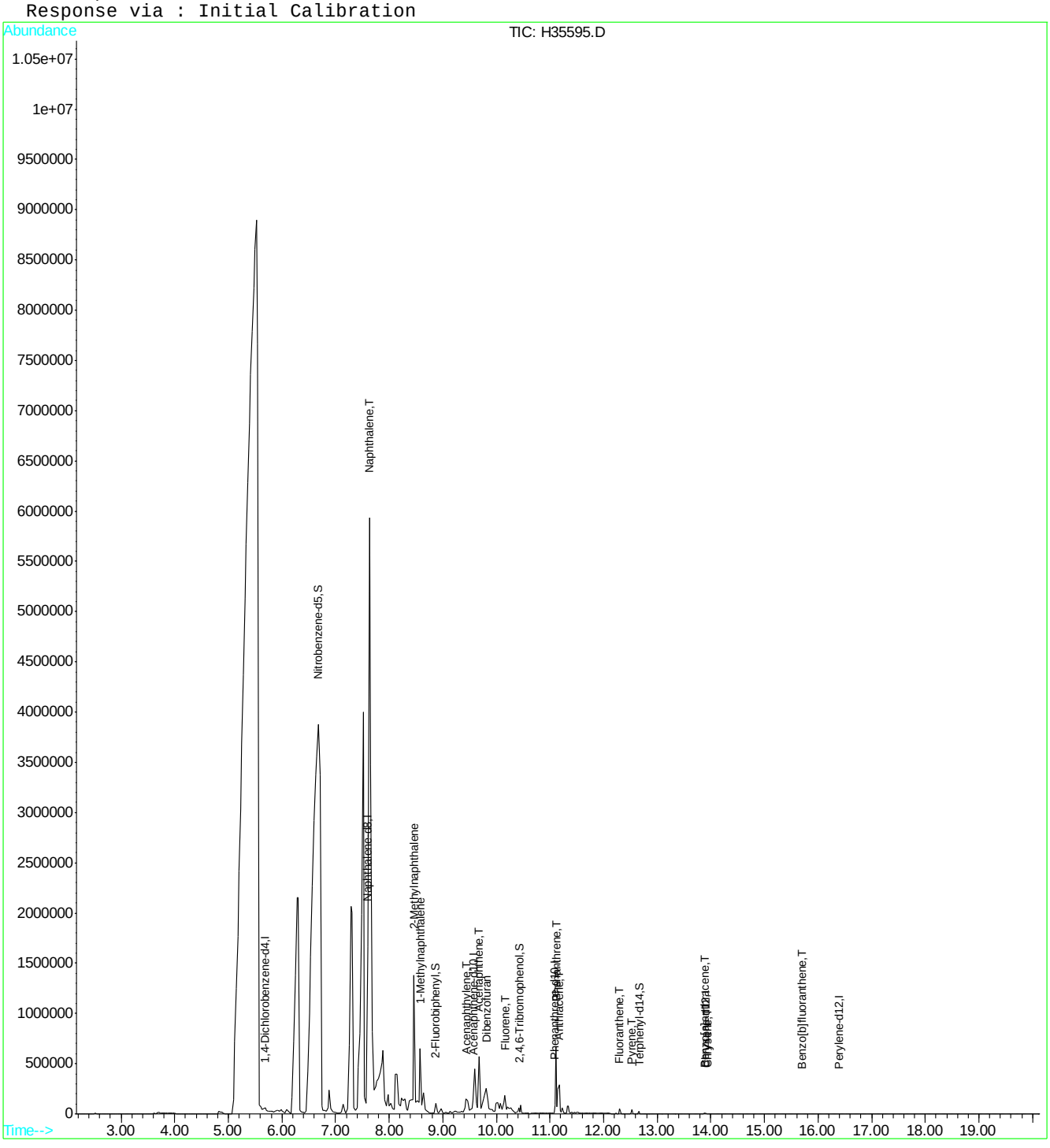
Target Compounds							Qvalue
6) Naphthalene	7.63	128	12447969	392.26	ppb		97
7) 2-Methylnaphthalene	8.46	142	1193096m	30.23	ppb		
8) 1-Methylnaphthalene	8.58	142	874403	24.79	ppb	#	68
11) Acenaphthylene	9.43	152	133446	5.29	ppb	#	75
12) Acenaphthene	9.68	153	1054168	53.32	ppb	#	23
13) Dibenzofuran	9.81	168	341278	18.58	ppb	#	36
14) Fluorene	10.16	166	149855	15.98	ppb		78
18) Phenanthrene	11.11	178	566252m	14.30	ppb		
19) Anthracene	11.17	178	247370m	5.39	ppb		
20) Fluoranthene	12.29	202	71319	3.43	ppb		99
22) Pyrene	12.53	202	56795	3.69	ppb		96
24) Benzo[a]anthracene	13.89	228	1672	0.78	ppb		88
25) Chrysene	13.94	228	2040m	0.48	ppb		
27) Benzo[b]fluoranthene	15.69	252	301m	0.31	ppb		

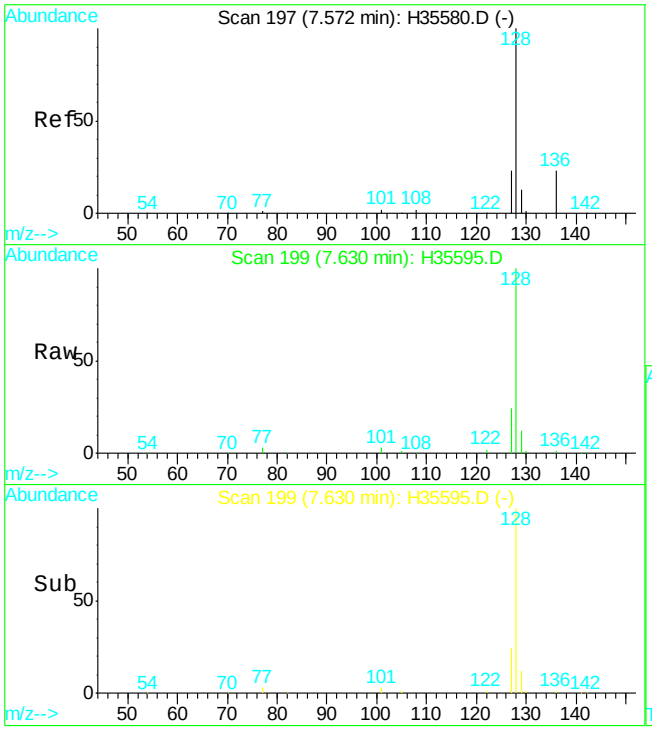
(#) = qualifier out of range (m) = manual integration
H35595.D H10239SP.M Tue Oct 27 15:26:42 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

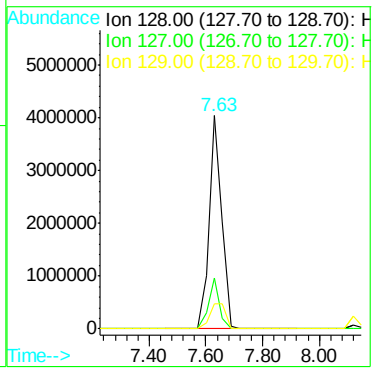


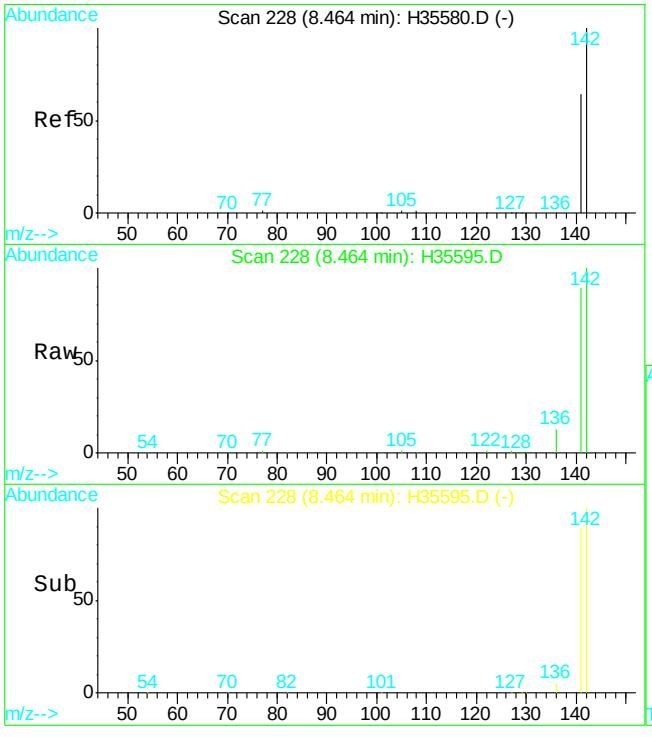


#6
Naphthalene
Concen: 392.26 ppb
RT: 7.63 min Scan# 199
Delta R.T. -0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:128 Resp:12447969

Ion	Ratio	Lower	Upper
128	100		
127	24.0	15.3	28.5
129	11.6	8.5	15.9

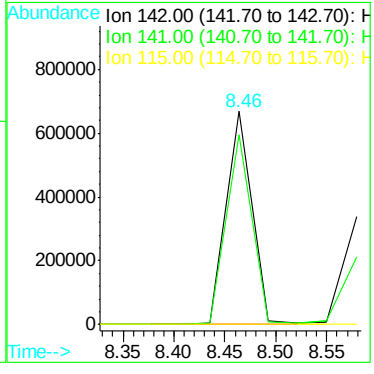


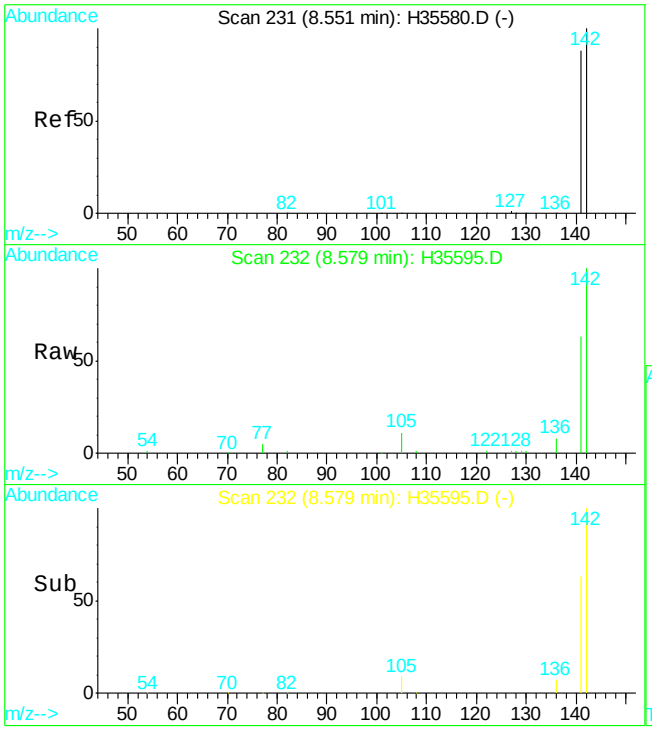


#7
2-Methylnaphthalene
Concen: 30.23 ppb m
RT: 8.46 min Scan# 228
Delta R.T. -0.07 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:142 Resp: 1193096

Ion	Ratio	Lower	Upper
142	100		
141	41.9	104.0	193.1#
115	0.0	0.0	0.0

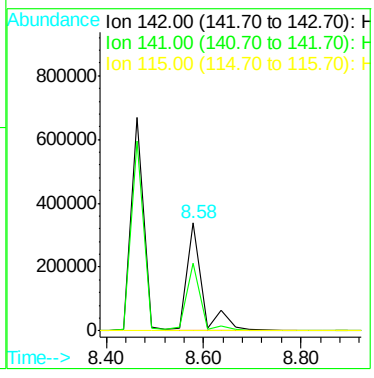


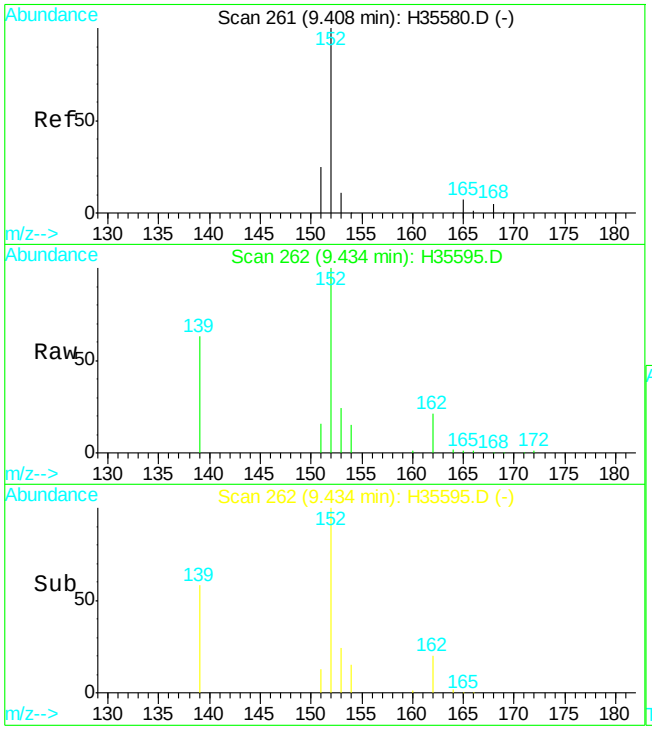


#8
1-Methylnaphthalene
Concen: 24.79 ppb
RT: 8.58 min Scan# 232
Delta R.T. -0.04 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:142 Resp: 874403

Ion	Ratio	Lower	Upper
142	100		
141	57.2	60.5	112.5#
115	0.0	0.0	0.0

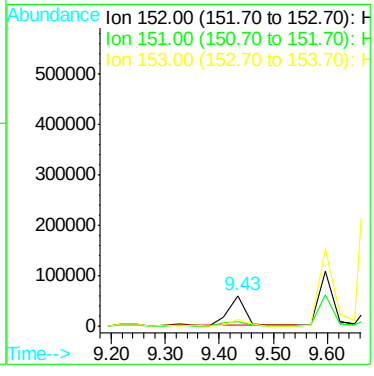


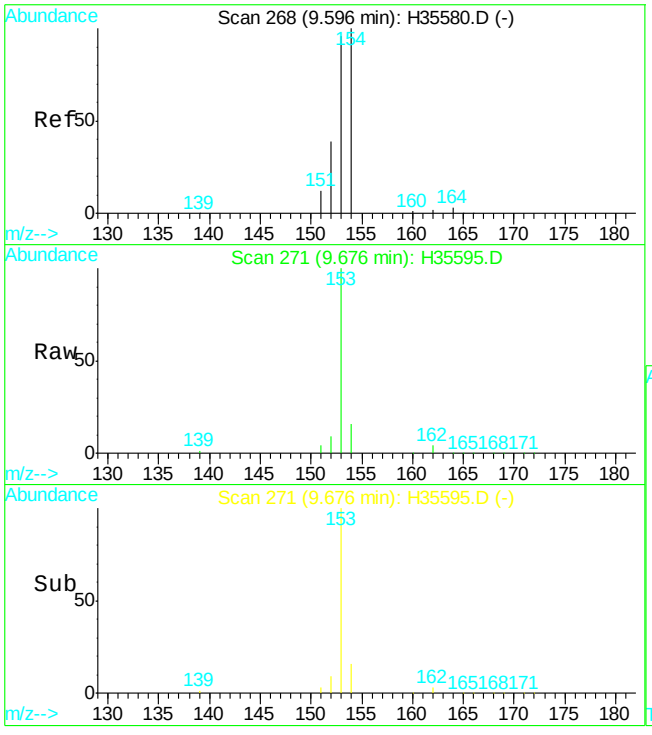


#11
Acenaphthylene
Concen: 5.29 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:152 Resp: 133446

Ion	Ratio	Lower	Upper
152	100		
151	14.0	17.8	33.0#
153	22.5	7.4	13.8#

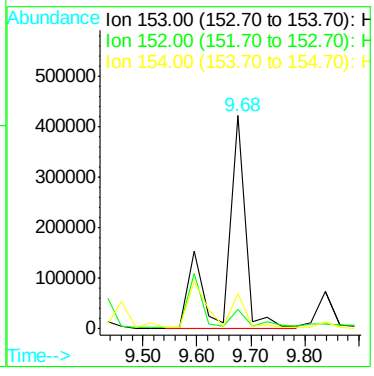


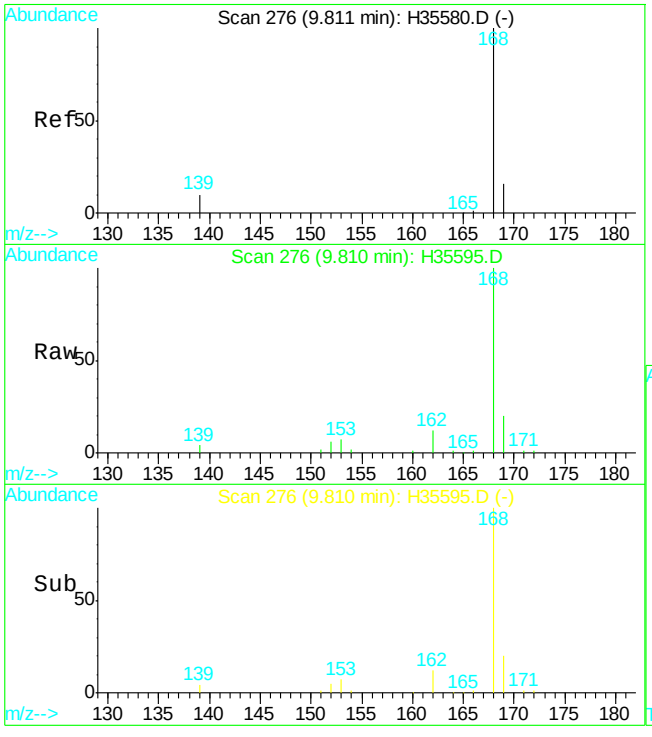


#12
Acenaphthene
Concen: 53.32 ppb
RT: 9.68 min Scan# 271
Delta R.T. 0.08 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:153 Resp: 1054168

Ion	Ratio	Lower	Upper
153	100		
152	8.5	28.7	53.3#
154	15.8	72.9	135.5#

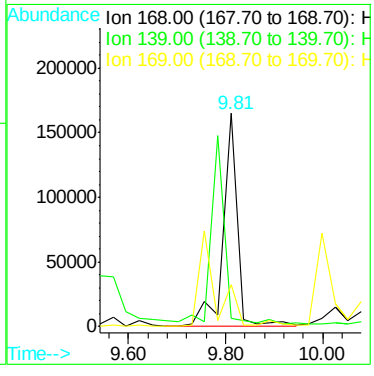


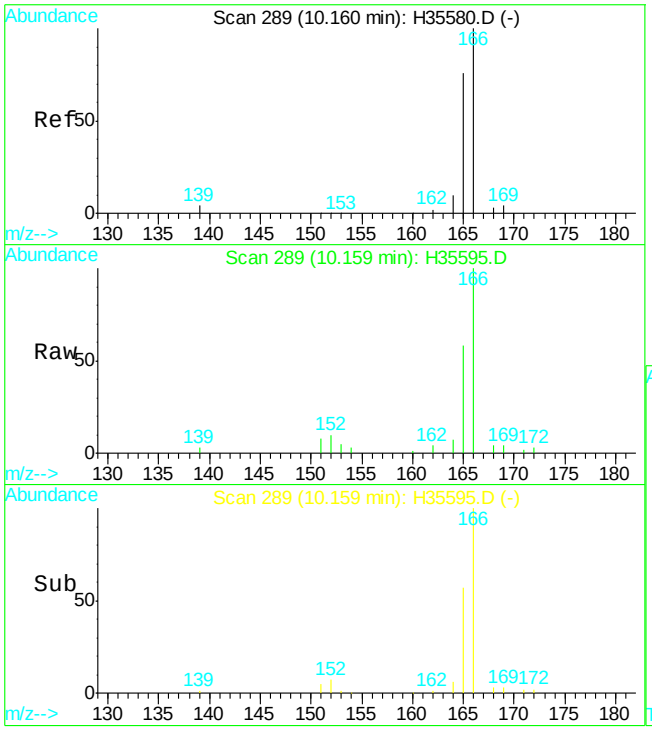


#13
Dibenzofuran
Concen: 18.58 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:168 Resp: 341278

Ion	Ratio	Lower	Upper
168	100		
139	85.1	33.7	62.5#
169	53.1	9.8	18.2#

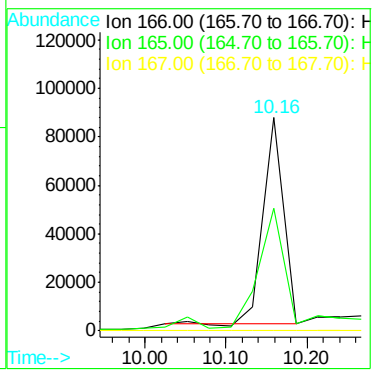


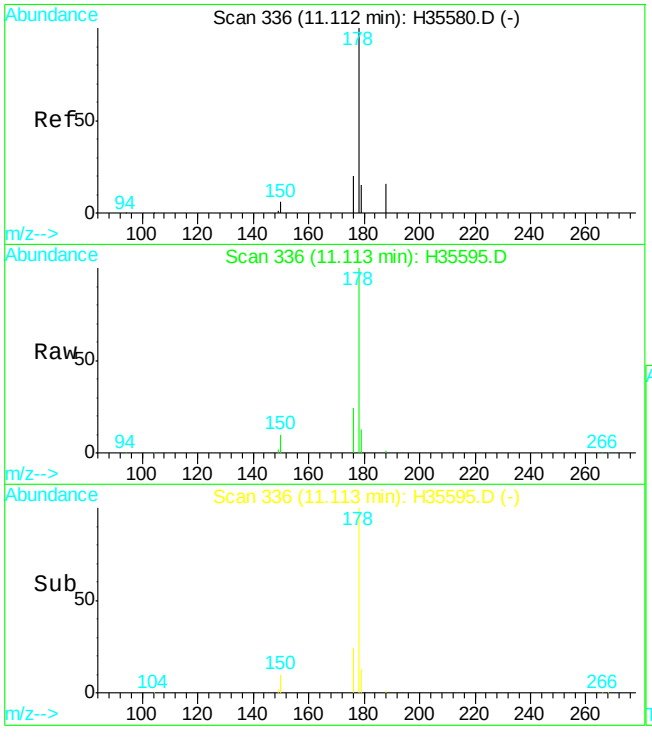


#14
Fluorene
Concen: 15.98 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:166 Resp: 149855

Ion	Ratio	Lower	Upper
166	100		
165	57.0	53.1	98.7
167	0.0	0.0	0.0

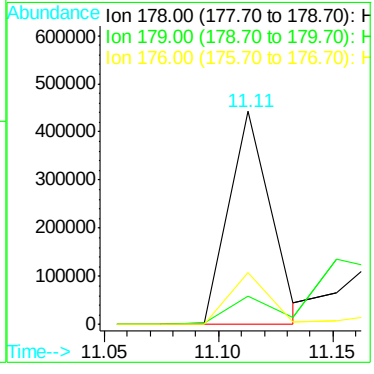


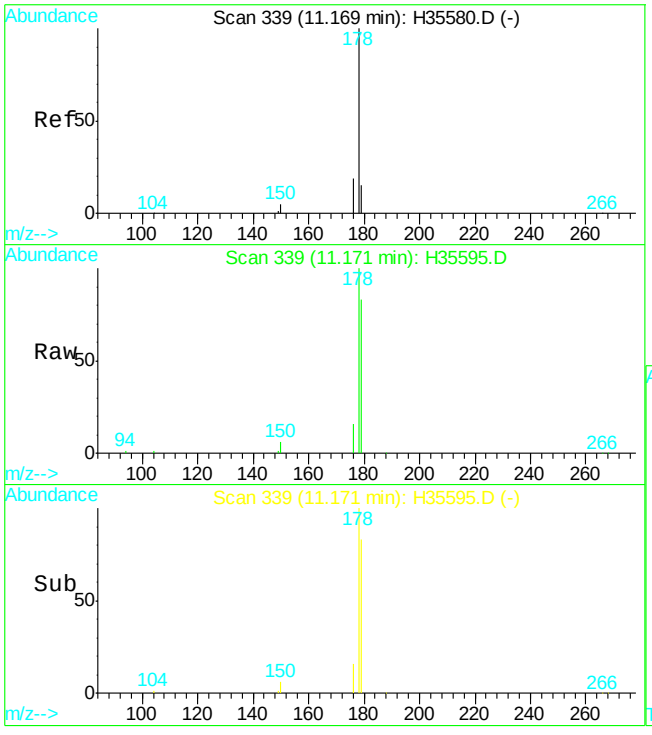


#18
Phenanthrene
Concen: 14.30 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:178 Resp: 566252

Ion	Ratio	Lower	Upper
178	100		
179	13.3	10.6	19.6
176	24.3	13.7	25.5

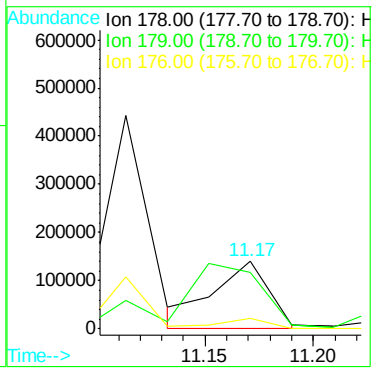


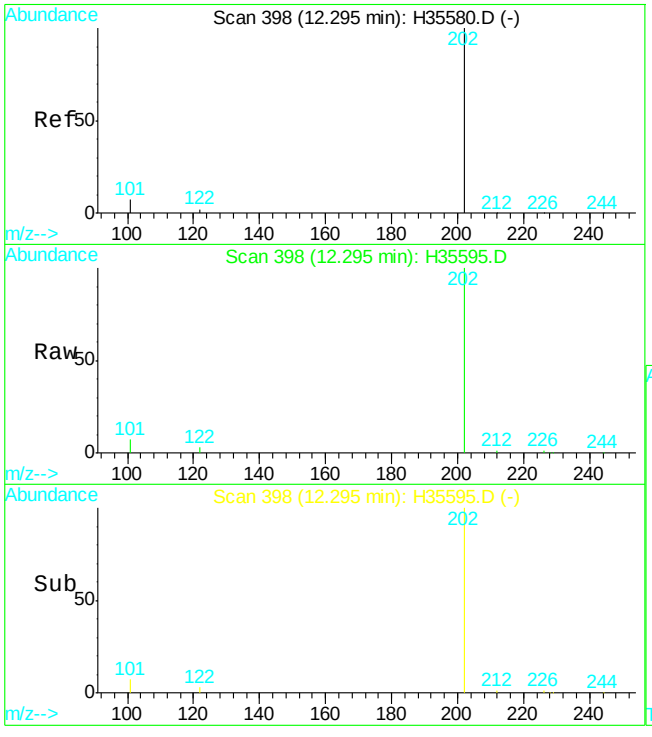


#19
Anthracene
Concen: 5.39 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:178 Resp: 247370

Ion	Ratio	Lower	Upper
178	100		
179	83.1	10.6	19.6#
176	15.7	13.3	24.7

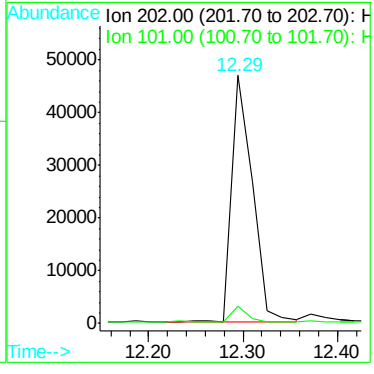


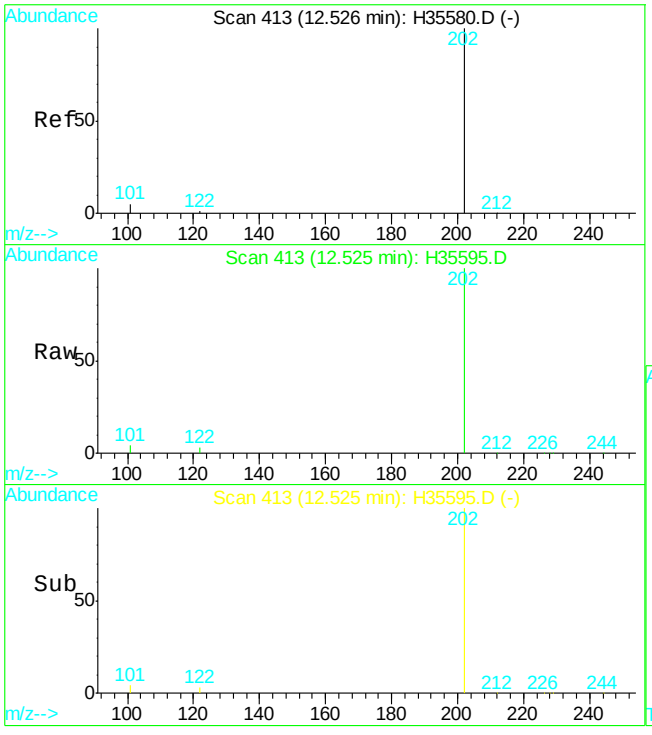


#20
Fluoranthene
Concen: 3.43 ppb
RT: 12.29 min Scan# 398
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:202 Resp: 71319

Ion	Ratio	Lower	Upper
202	100		
101	6.4	4.6	8.6

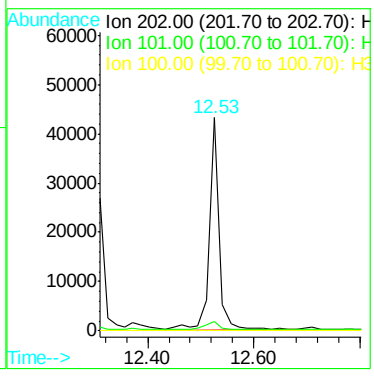


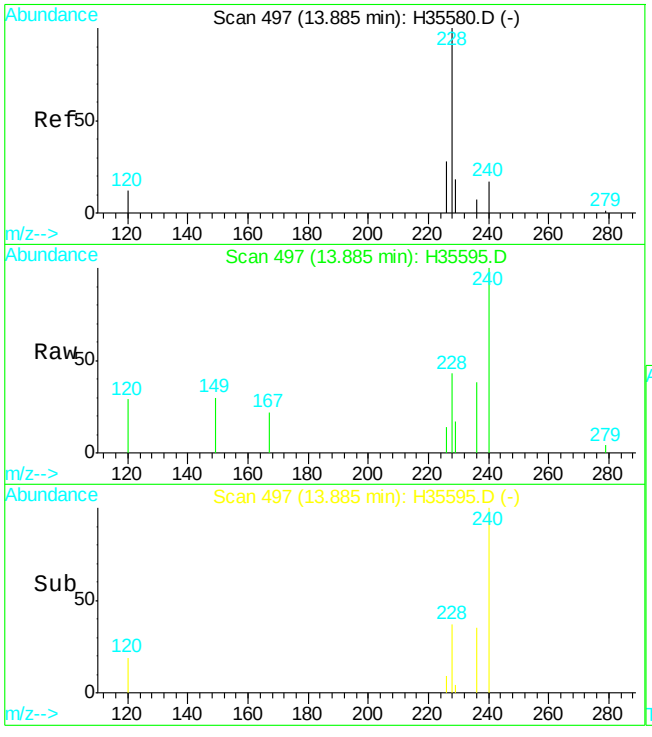


#22
Pyrene
Concen: 3.69 ppb
RT: 12.53 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:202 Resp: 56795

Ion	Ratio	Lower	Upper
202	100		
101	3.5	3.5	6.5
100	0.0	0.0	0.0

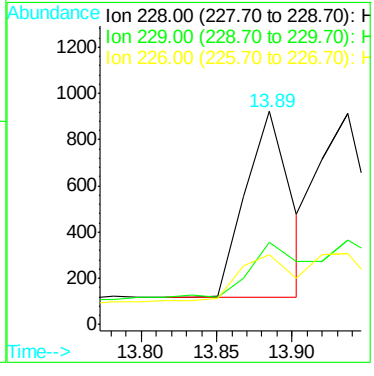


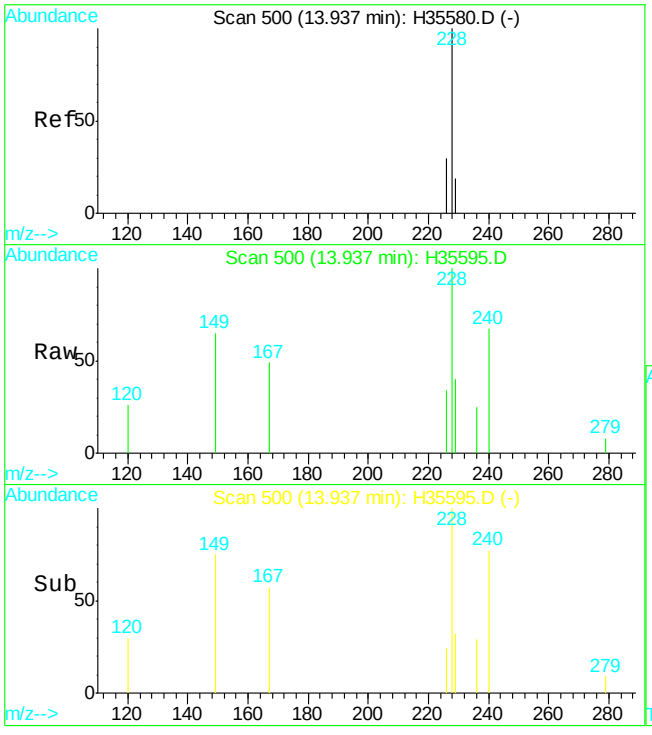


#24
Benzo[a]anthracene
Concen: 0.78 ppb
RT: 13.89 min Scan# 497
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:228 Resp: 1672

Ion	Ratio	Lower	Upper
228	100		
229	25.6	14.4	26.7
226	24.0	21.3	39.6

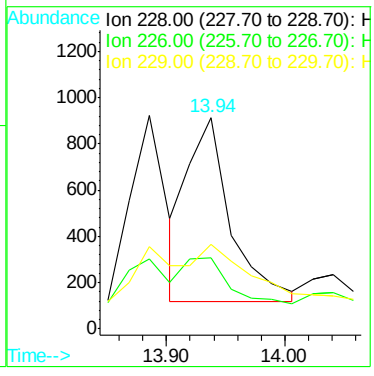


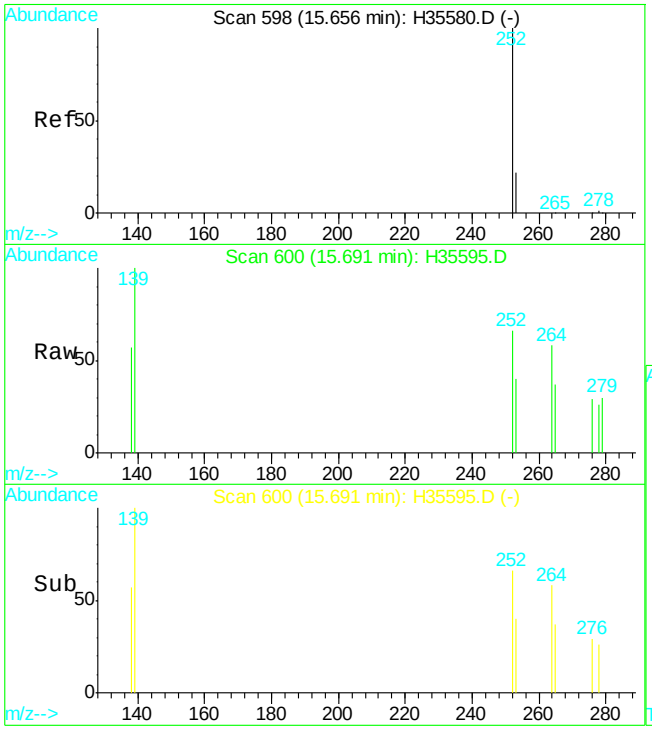


#25
Chrysene
Concen: 0.48 ppb m
RT: 13.94 min Scan# 500
Delta R.T. 0.00 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:228 Resp: 2040

Ion	Ratio	Lower	Upper
228	100		
226	33.5	21.8	40.4
229	40.1	14.8	27.6#

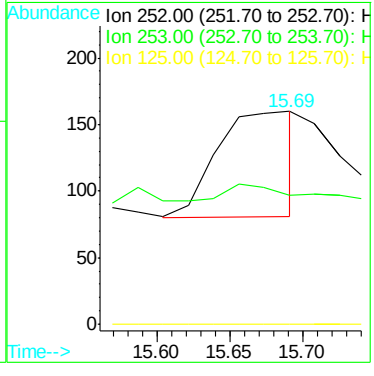




#27
Benzo[b]fluoranthene
Concen: 0.31 ppb m
RT: 15.69 min Scan# 600
Delta R.T. 0.04 min
Lab File: H35595.D
Acq: 23 Oct 2009 6:28 pm

Tgt Ion:252 Resp: 301

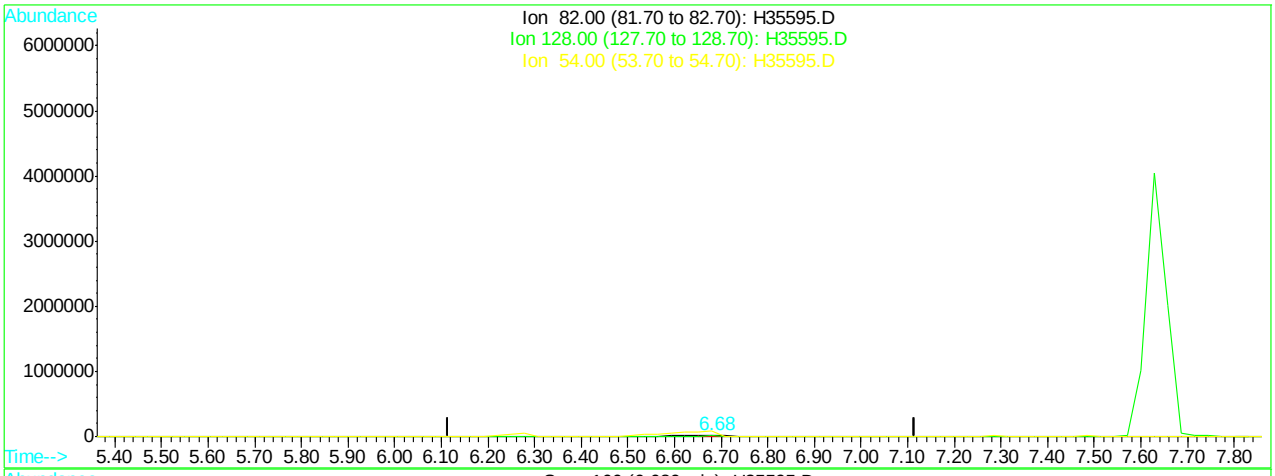
Ion	Ratio	Lower	Upper
252	100		
253	60.6	19.5	36.1#
125	0.0	0.0	0.0

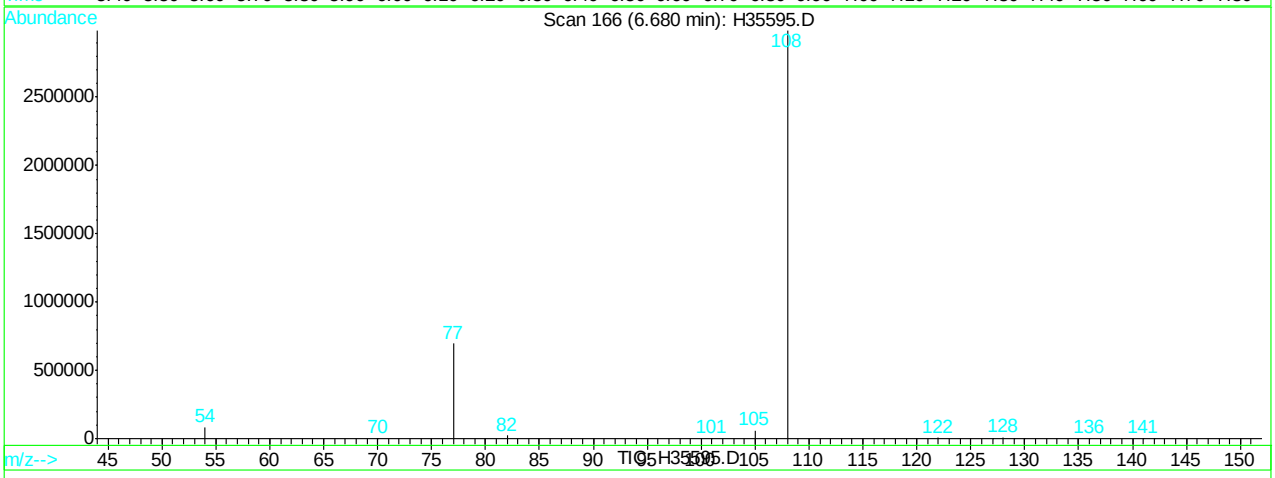


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.68min 16.68ppb m

response 58285

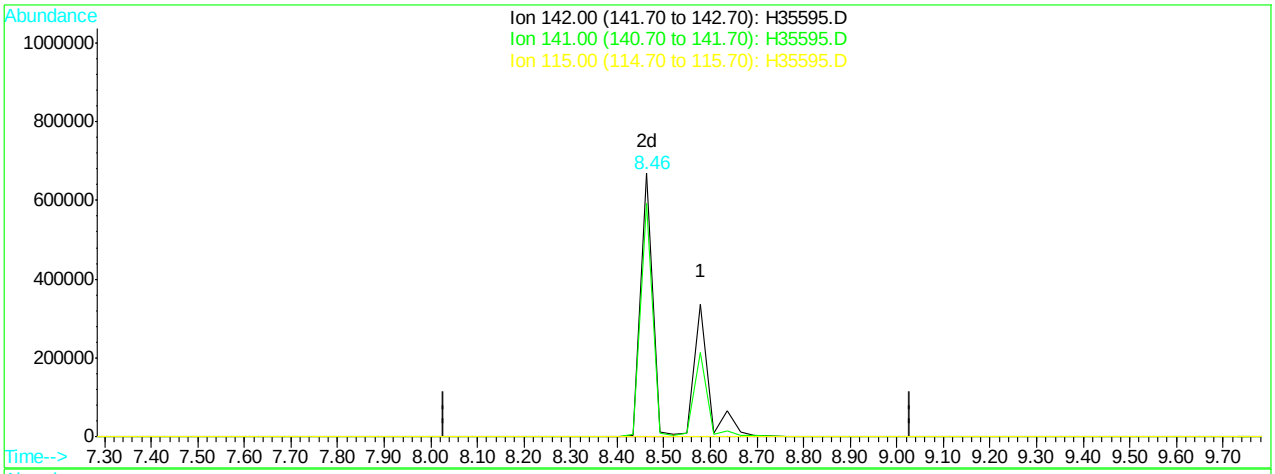
Ion	Exp%	Act%
82.00	100	100
128.00	121.70	40.33#
54.00	39.20	348.01#
0.00	0.00	0.00

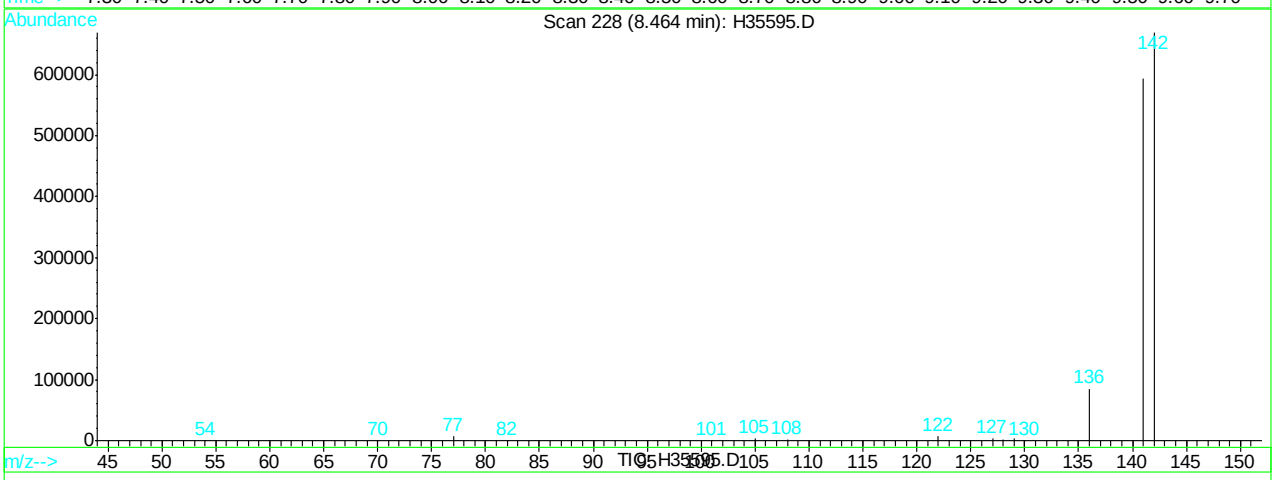
H35595.D H10239SP.M Tue Oct 27 15:26:56 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 30.23ppb m

response 1193096

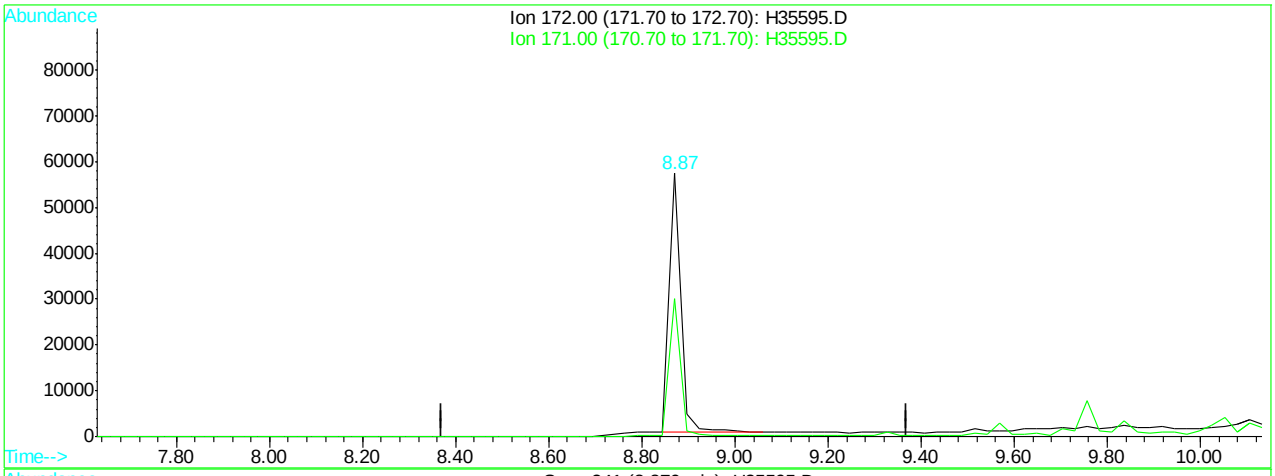
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	41.93#
115.00	0.00	0.00
0.00	0.00	0.00

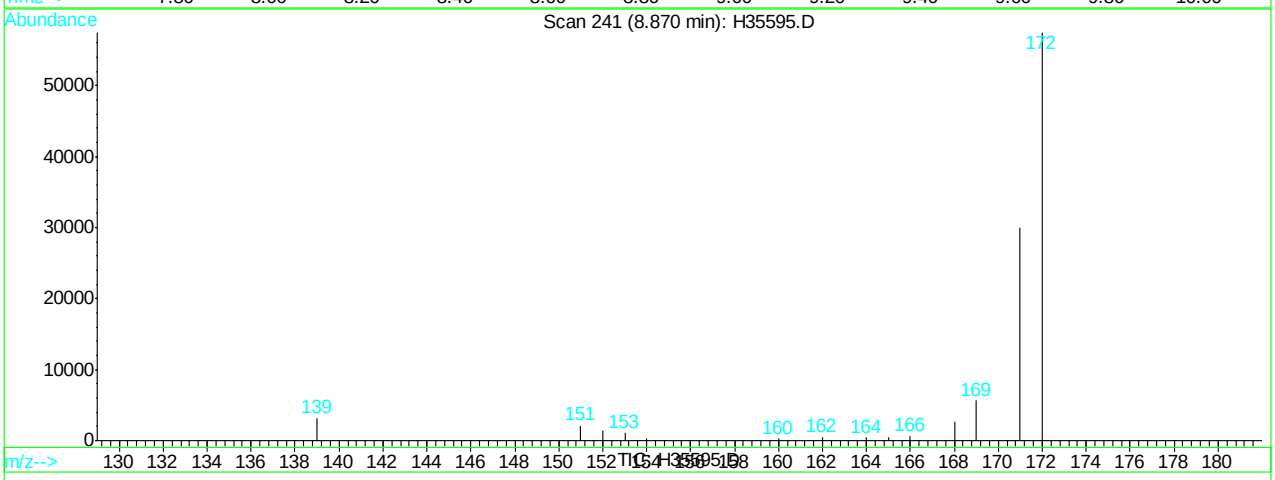
H35595.D H10239SP.M Tue Oct 27 15:26:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(10) 2-Fluorobiphenyl (S)

8.87min 6.36ppb m

response 101973

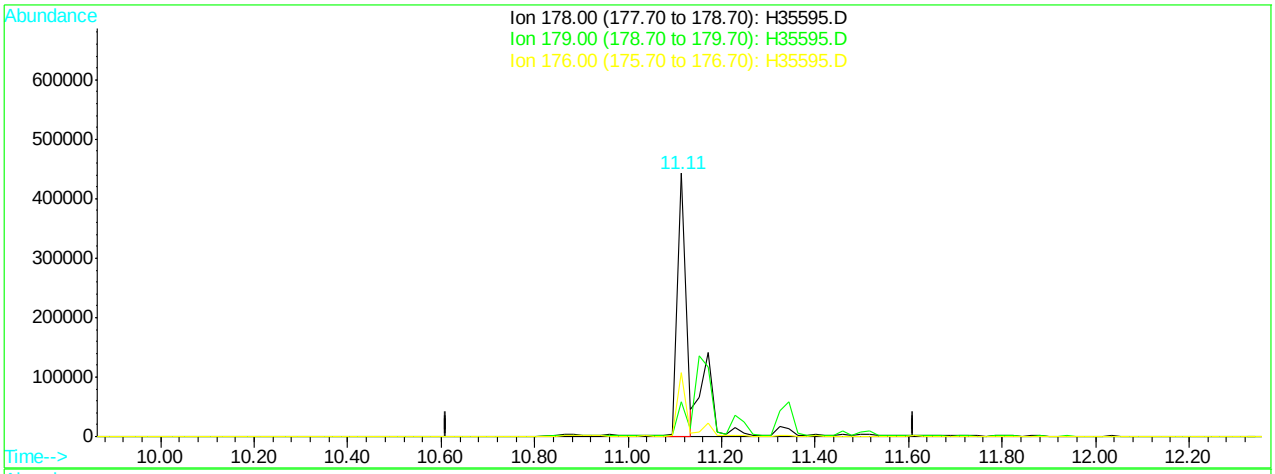
Ion	Exp%	Act%
172.00	100	100
171.00	27.30	52.23#
0.00	0.00	0.00
0.00	0.00	0.00

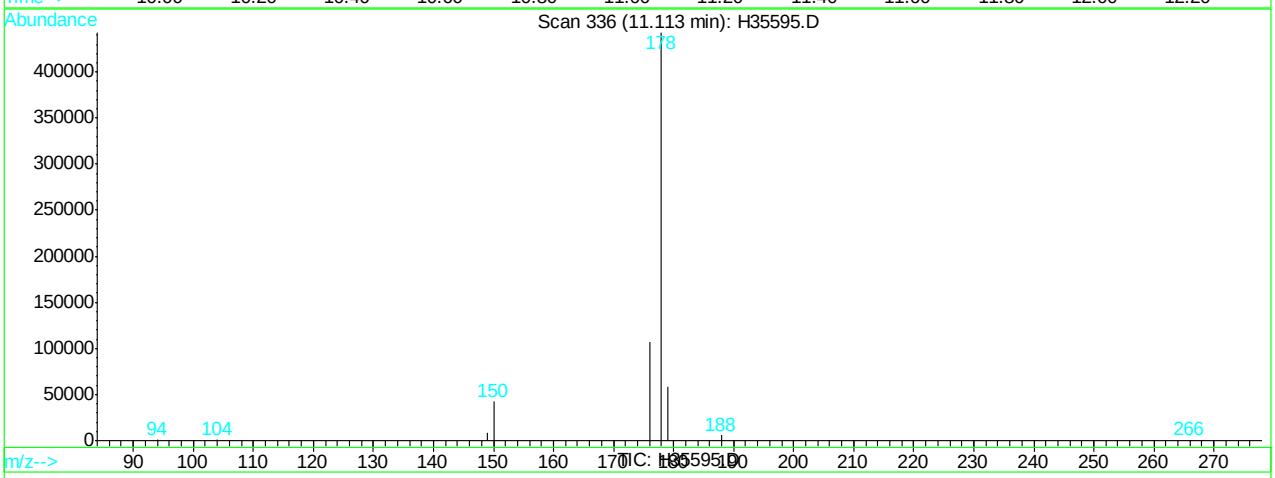
H35595.D H10239SP.M Tue Oct 27 15:27:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 14.30ppb m

response 566252

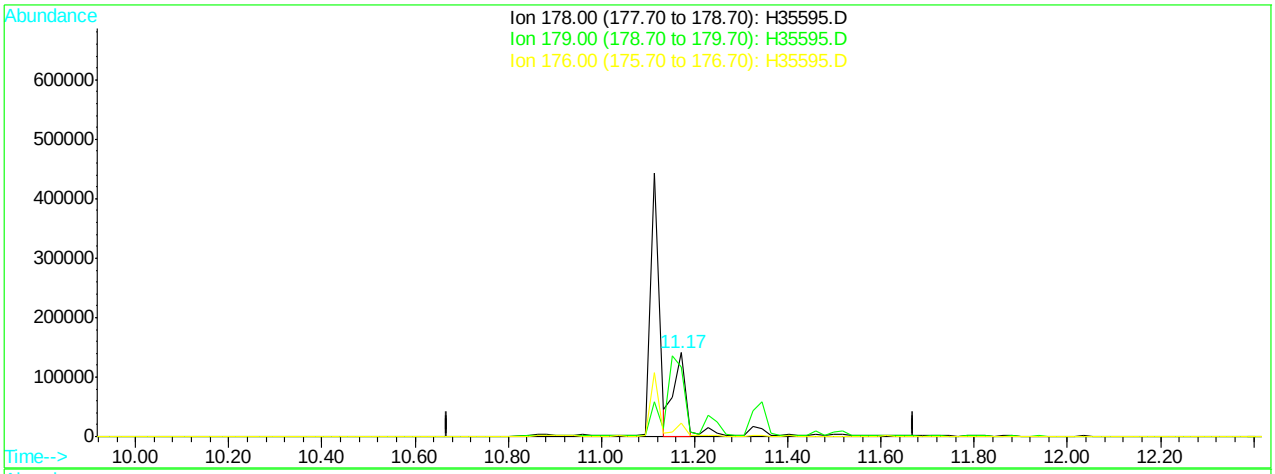
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	13.30
176.00	19.60	24.29
0.00	0.00	0.00

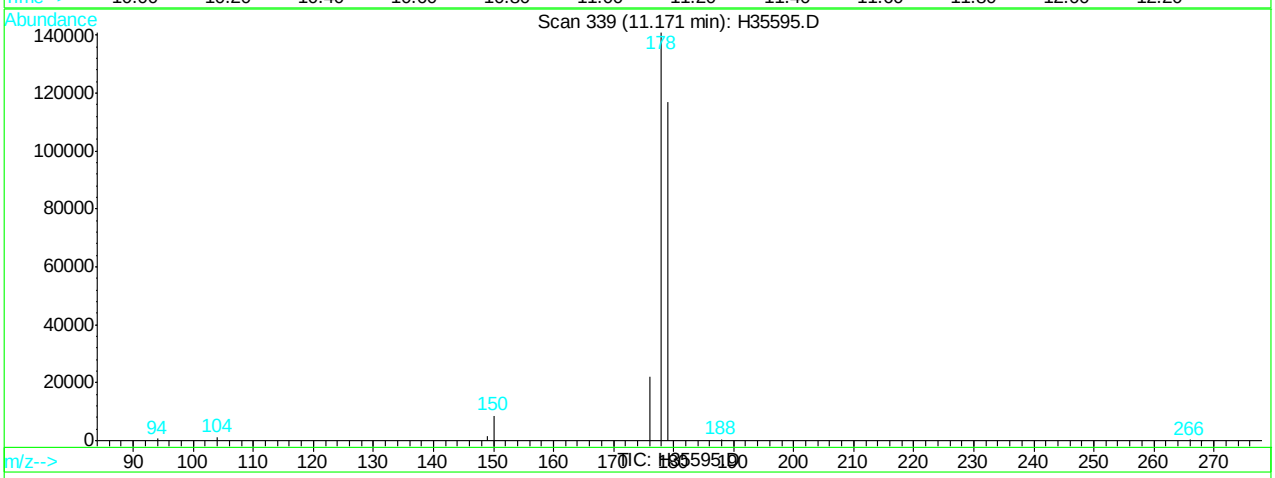
H35595.D H10239SP.M Tue Oct 27 15:27:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 5.39ppb m

response 247370

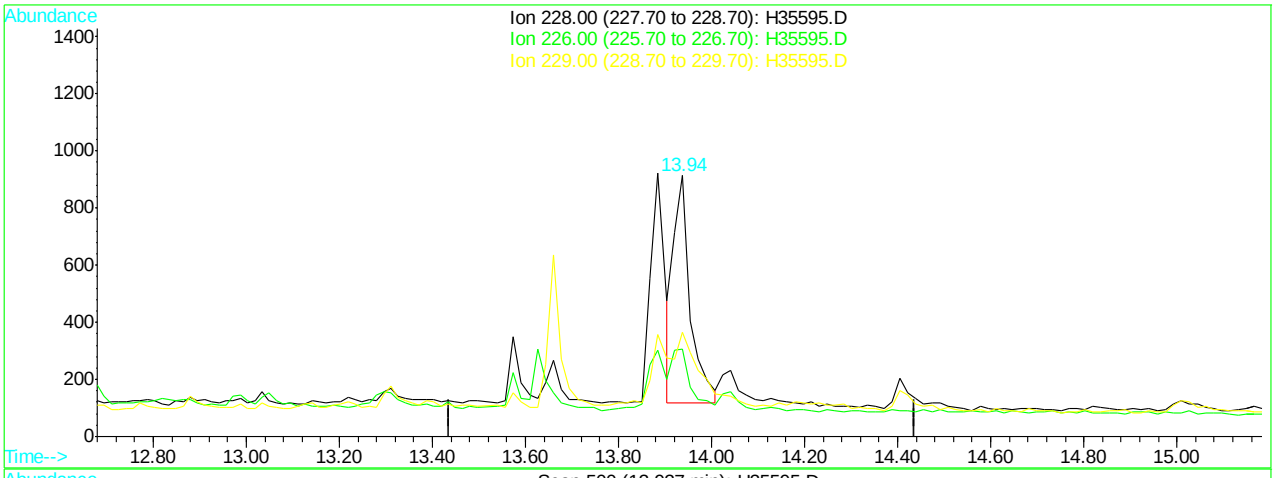
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	83.06#
176.00	19.00	15.66
0.00	0.00	0.00

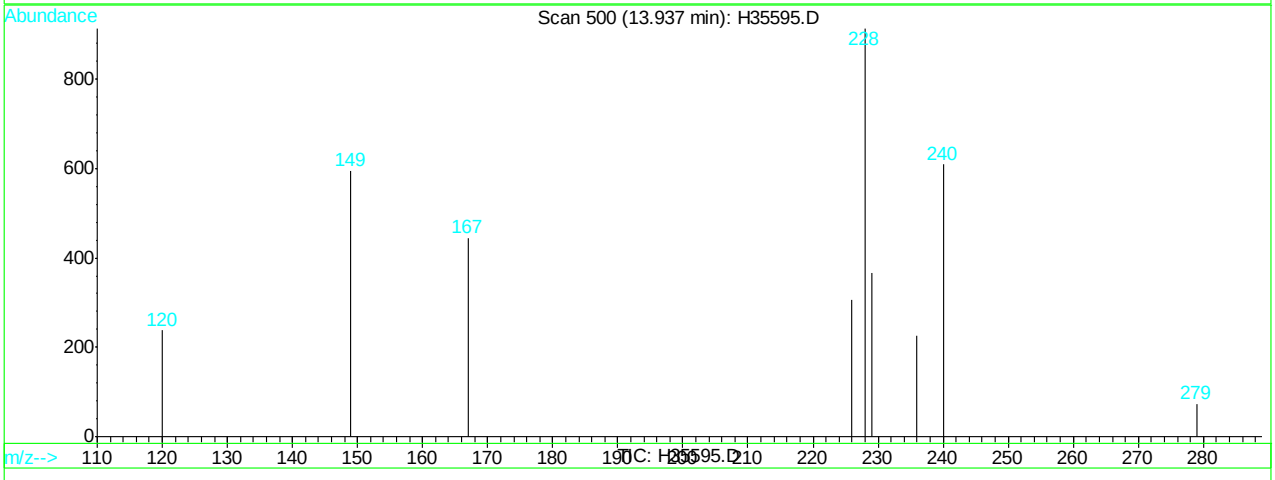
H35595.D H10239SP.M Tue Oct 27 15:27:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.48ppb m

response 2040

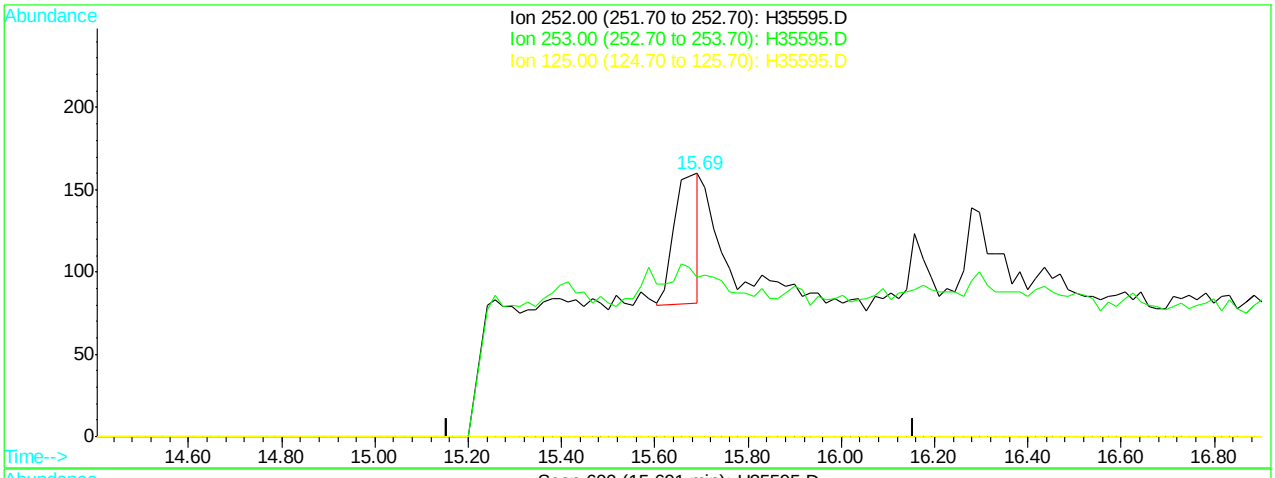
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	33.52
229.00	21.20	40.09#
0.00	0.00	0.00

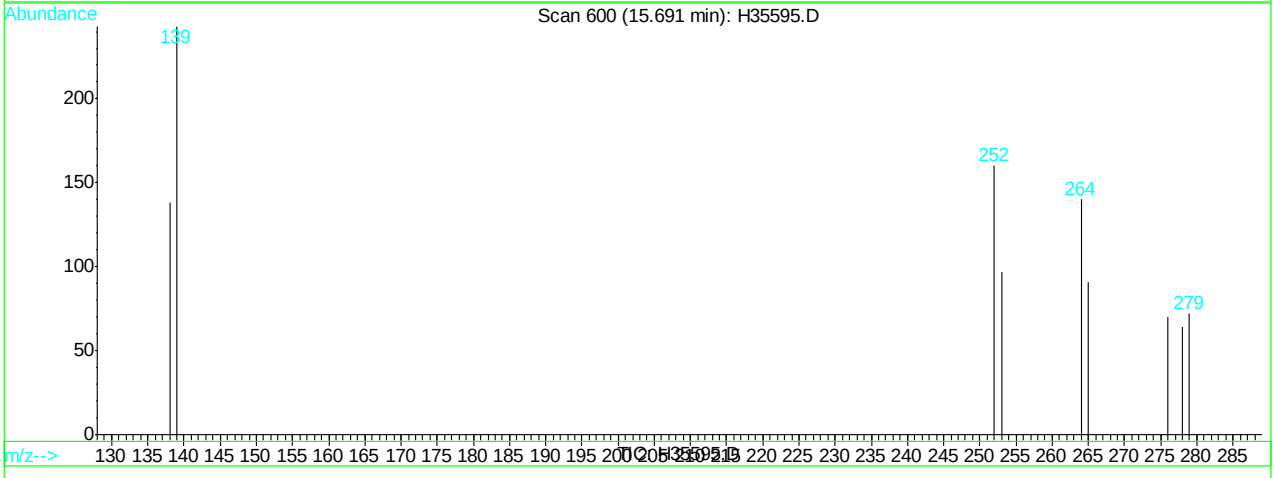
H35595.D H10239SP.M Tue Oct 27 15:27:18 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35595.D Vial: 17
Acq On : 23 Oct 2009 6:28 pm Operator: sheilac
Sample : t39646-2,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:52 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.69min 0.31ppb m

response 301

Ion	Exp%	Act%
252.00	100	100
253.00	27.80	60.62#
125.00	0.00	0.00
0.00	0.00	0.00

H35595.D H10239SP.M Tue Oct 27 15:27:24 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 17:17:43 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	53691	4.00	ppb	0.03
4) Naphthalene-d8	7.54	136	32985	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	46326	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	60420	4.00	ppb	0.00
21) Chrysene-d12	13.94	240	10448	4.00	ppb	0.00
26) Perylene-d12	16.45	264	3716	4.00	ppb	0.03

System Monitoring Compounds

5) Nitrobenzene-d5	6.59	82	628m	0.57	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	11.40%#	
10) 2-Fluorobiphenyl	8.87	172	11080	0.45	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	9.00%#	
16) 2,4,6-Tribromophenol	10.44	330	4058	2.01	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery	=	20.10%	
23) Terphenyl-d14	12.68	244	1542m	0.55	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	11.00%	

Target Compounds

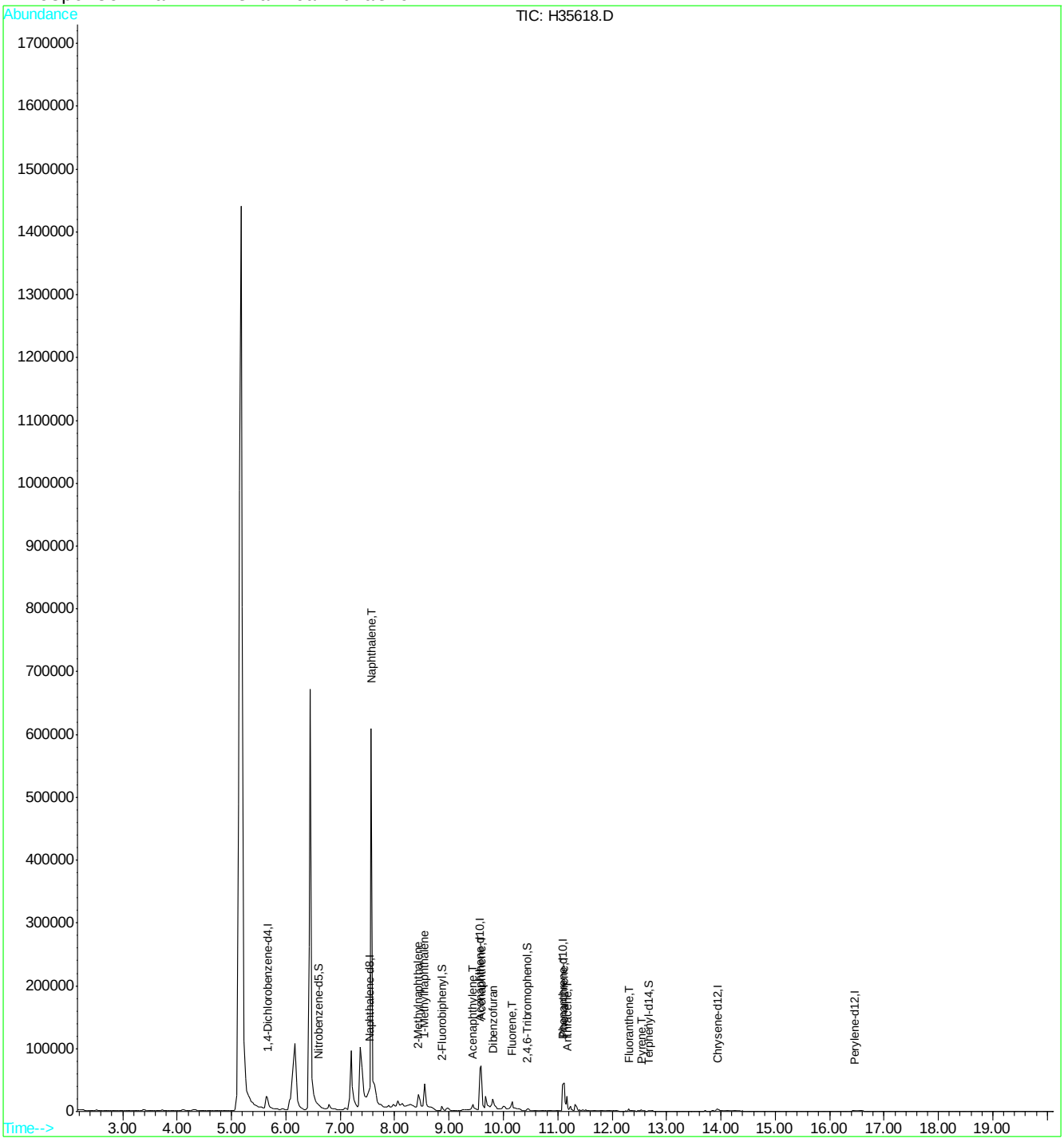
							Qvalue
6) Naphthalene	7.57	128	774643	62.92	ppb		90
7) 2-Methylnaphthalene	8.44	142	30977	3.99	ppb	#	18
8) 1-Methylnaphthalene	8.55	142	51749	3.77	ppb	#	65
11) Acenaphthylene	9.44	152	11806	0.58	ppb	#	72
12) Acenaphthene	9.60	153	46449	1.83	ppb		85
13) Dibenzofuran	9.81	168	29361	1.22	ppb	#	86
14) Fluorene	10.16	166	16116	0.98	ppb		96
18) Phenanthrene	11.11	178	41265m	1.70	ppb		
19) Anthracene	11.17	178	12779m	0.41	ppb		
20) Fluoranthene	12.31	202	6297	0.61	ppb		99
22) Pyrene	12.54	202	4601	0.40	ppb	#	91

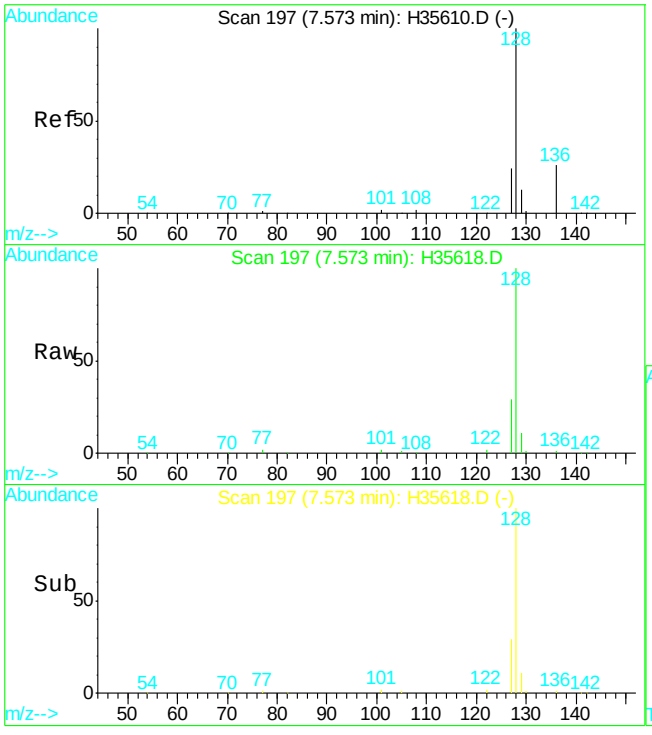
(#) = qualifier out of range (m) = manual integration
H35618.D H10269SP.M Mon Oct 26 19:19:05 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: H10269SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Initial Calibration

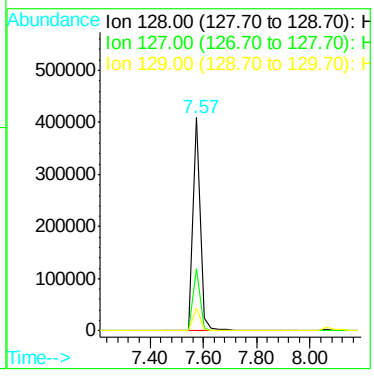


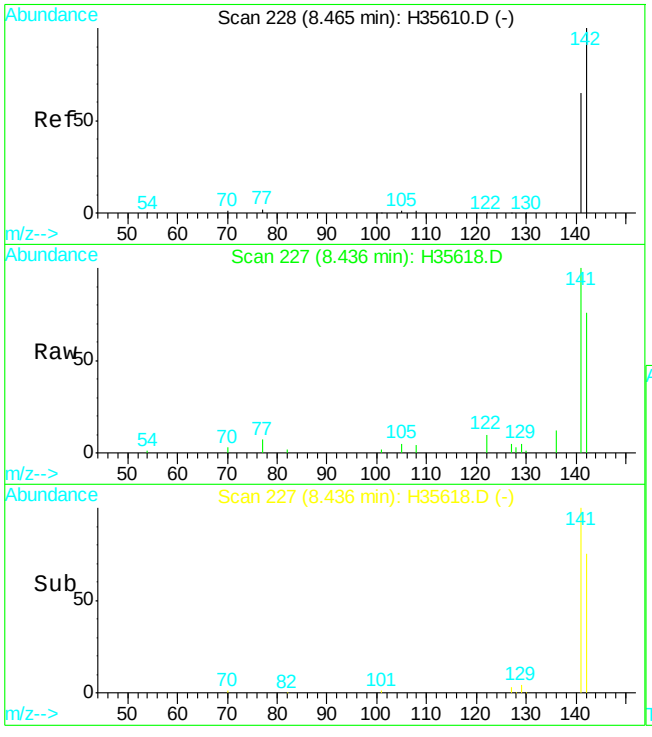


#6
Naphthalene
Concen: 62.92 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:128 Resp: 774643

Ion	Ratio	Lower	Upper
128	100		
127	29.0	15.8	29.4
129	10.7	8.5	15.9

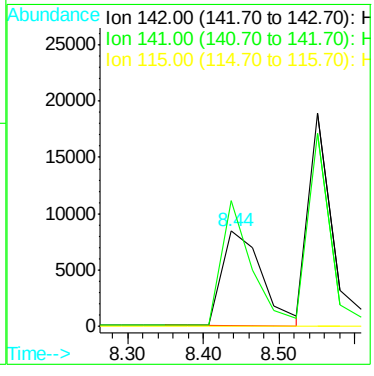




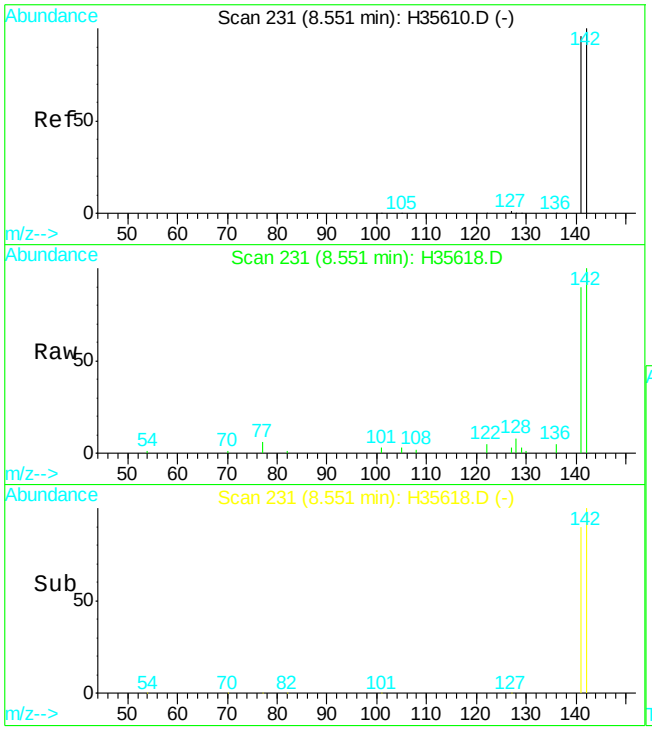
#7
2-Methylnaphthalene
Concen: 3.99 ppb
RT: 8.44 min Scan# 227
Delta R.T. -0.03 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:142 Resp: 30977

Ion	Ratio	Lower	Upper
142	100		
141	100.8	168.7	313.3#
115	0.0	0.0	0.0



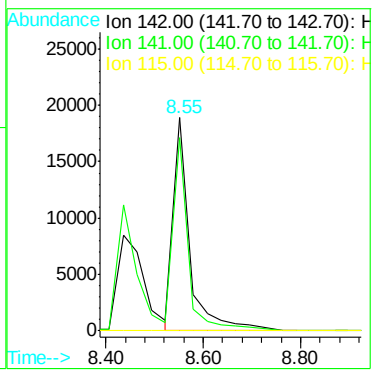
8.1.35
8

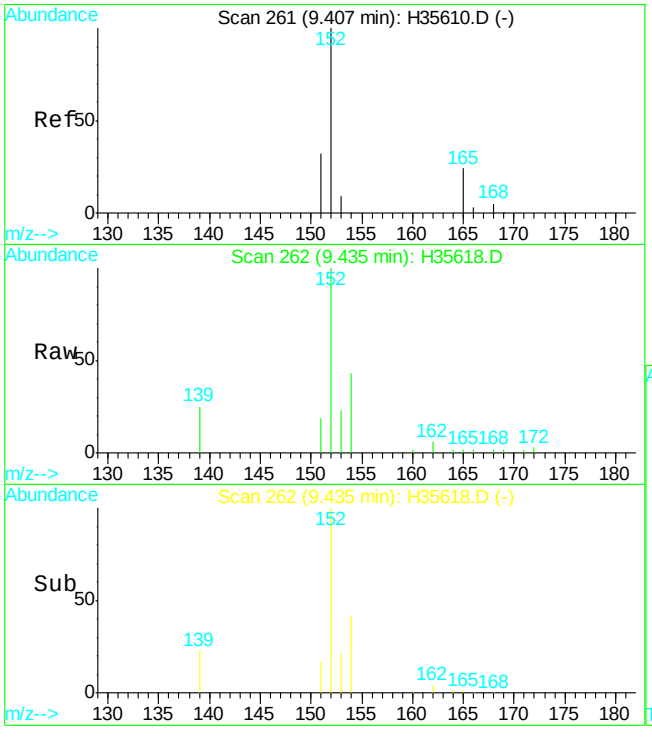


#8
1-Methylnaphthalene
Concen: 3.77 ppb
RT: 8.55 min Scan# 231
Delta R.T. -0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:142 Resp: 51749

Ion	Ratio	Lower	Upper
142	100		
141	82.6	85.3	158.3#
115	0.0	0.0	0.0

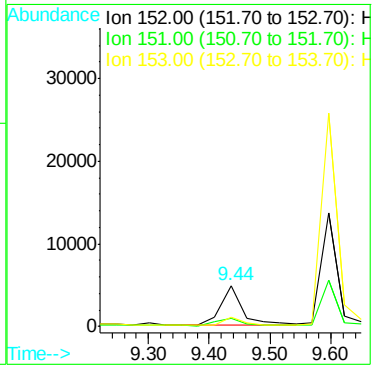


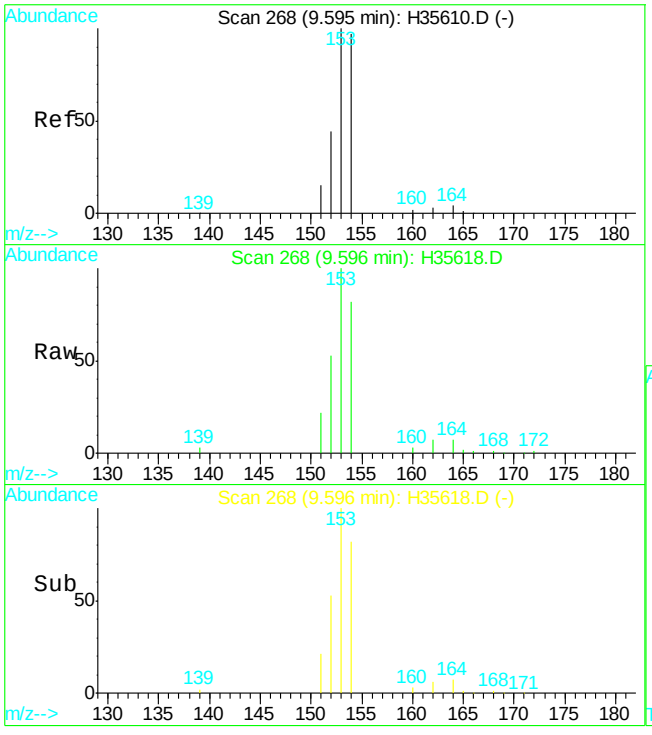


#11
Acenaphthylene
Concen: 0.58 ppb
RT: 9.44 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:152 Resp: 11806

Ion	Ratio	Lower	Upper
152	100		
151	17.6	22.8	42.4#
153	19.9	5.9	11.1#

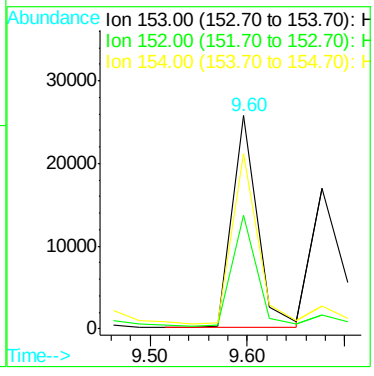


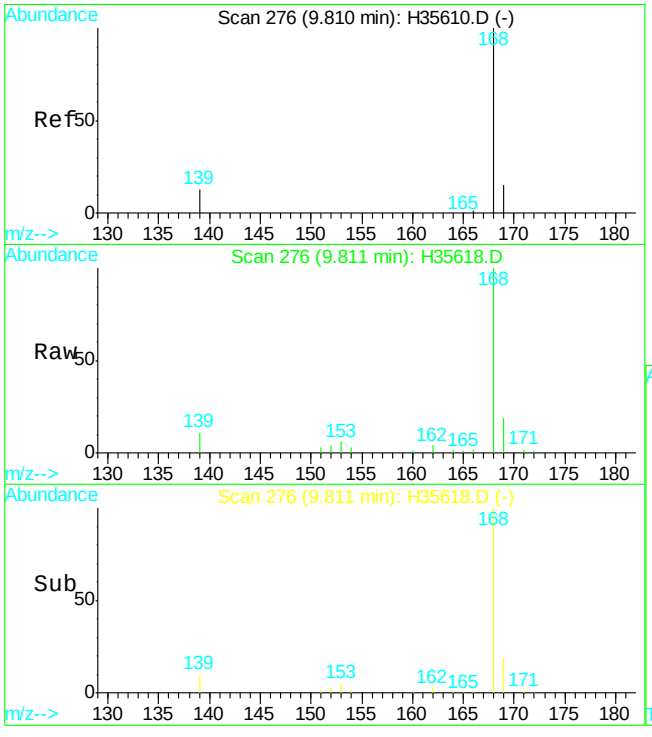


#12
Acenaphthene
Concen: 1.83 ppb
RT: 9.60 min Scan# 268
Delta R.T. 0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:153 Resp: 46449

Ion	Ratio	Lower	Upper
153	100		
152	52.3	31.0	57.6
154	80.1	67.6	125.6

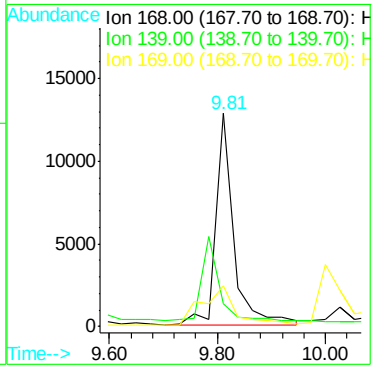


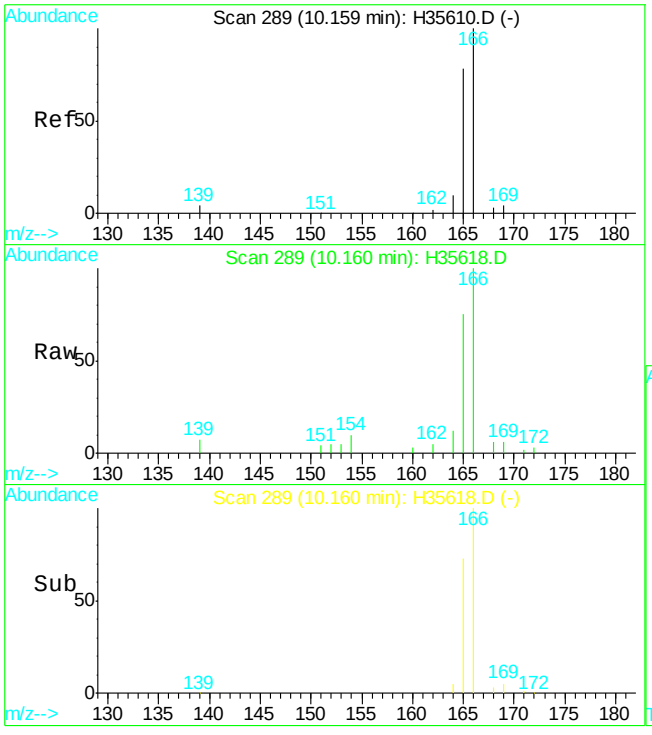


#13
Dibenzofuran
Concen: 1.22 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:168 Resp: 29361

Ion	Ratio	Lower	Upper
168	100		
139	56.9	37.9	70.5
169	36.2	10.6	19.6#

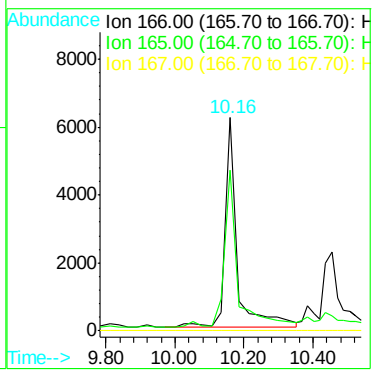


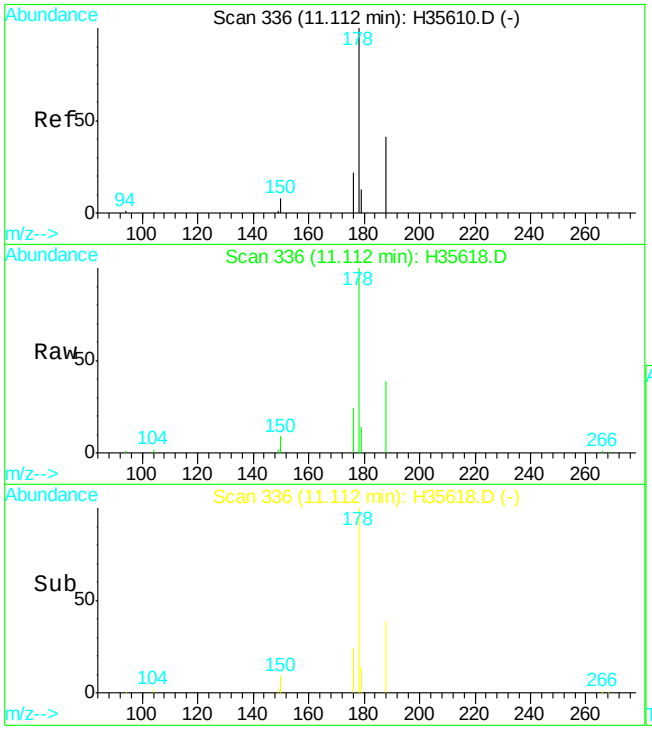


#14
Fluorene
Concen: 0.98 ppb
RT: 10.16 min Scan# 289
Delta R.T. 0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:166 Resp: 16116

Ion	Ratio	Lower	Upper
166	100		
165	74.4	54.7	101.5
167	0.0	0.0	0.0

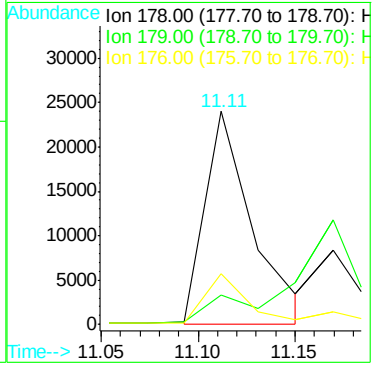


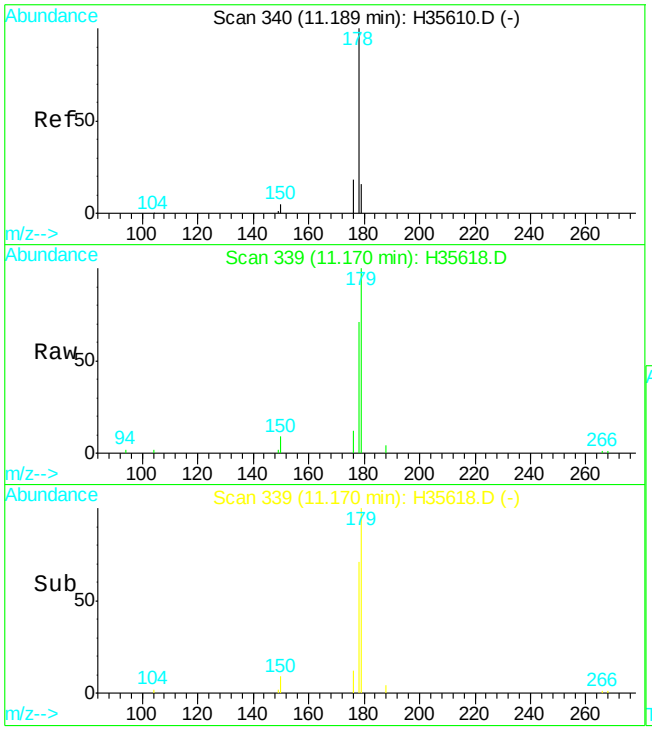


#18
Phenanthrene
Concen: 1.70 ppb m
RT: 11.11 min Scan# 336
Delta R.T. -0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:178 Resp: 41265

Ion	Ratio	Lower	Upper
178	100		
179	13.7	9.0	16.8
176	23.9	16.0	29.8

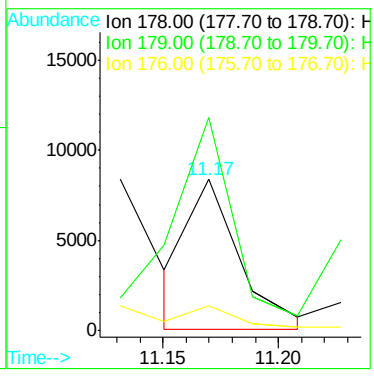


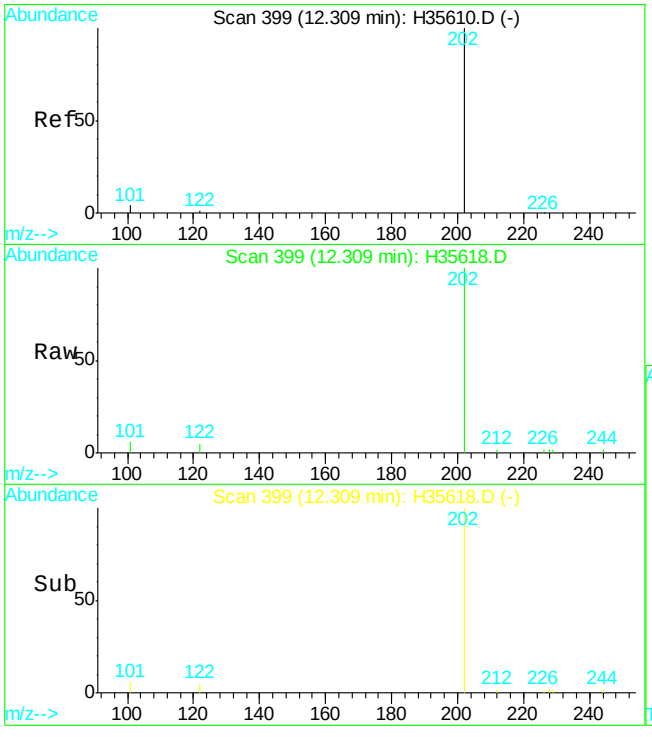


#19
Anthracene
Concen: 0.41 ppb m
RT: 11.17 min Scan# 339
Delta R.T. -0.02 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:178 Resp: 12779

Ion	Ratio	Lower	Upper
178	100		
179	141.0	11.4	21.2#
176	16.6	12.7	23.7

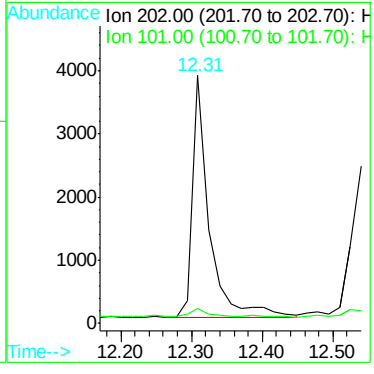


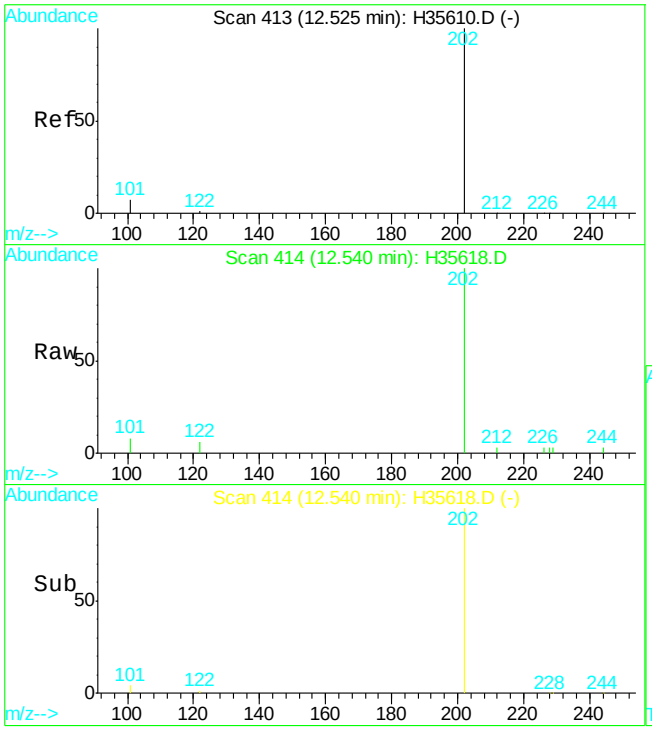


#20
Fluoranthene
Concen: 0.61 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.00 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:202 Resp: 6297

Ion	Ratio	Lower	Upper
202	100		
101	3.6	2.8	5.2

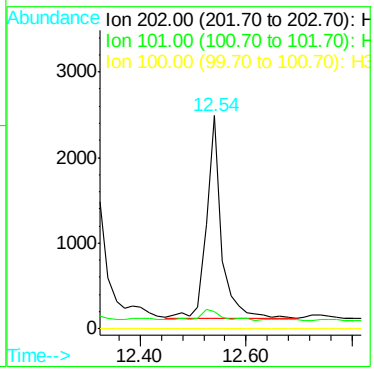




#22
Pyrene
Concen: 0.40 ppb
RT: 12.54 min Scan# 414
Delta R.T. 0.02 min
Lab File: H35618.D
Acq: 26 Oct 2009 4:42 pm

Tgt Ion:202 Resp: 4601

Ion	Ratio	Lower	Upper
202	100		
101	3.9	4.8	9.0#
100	0.0	0.0	0.0



8.1.35

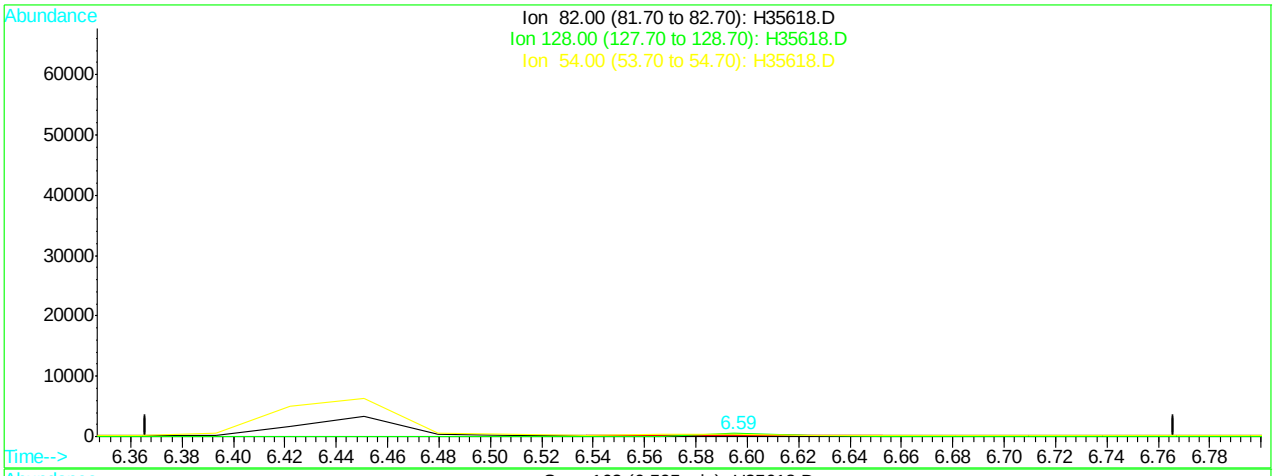
8

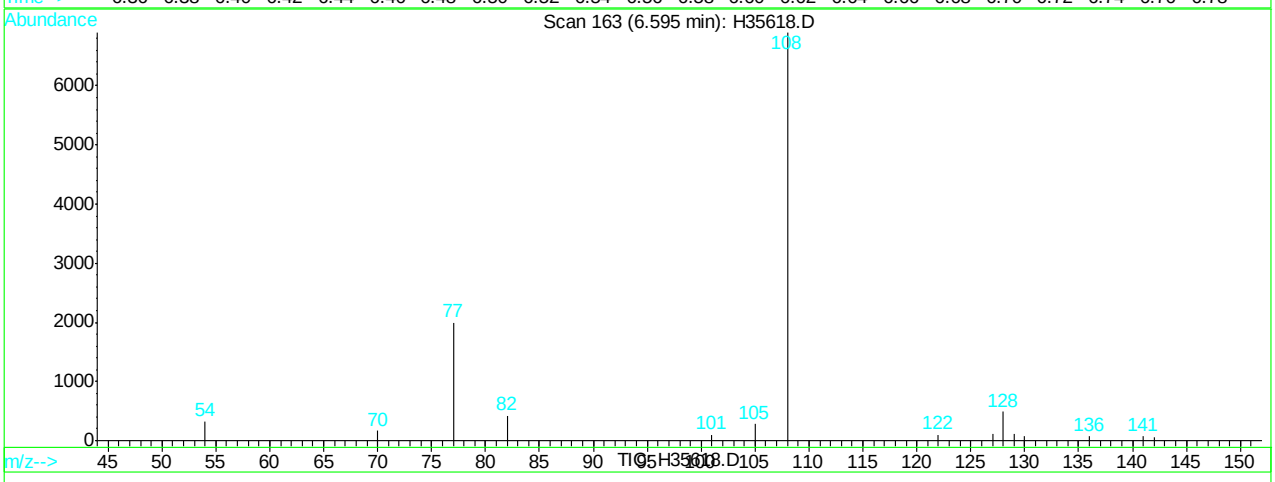
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.59min 0.57ppb m

response 628

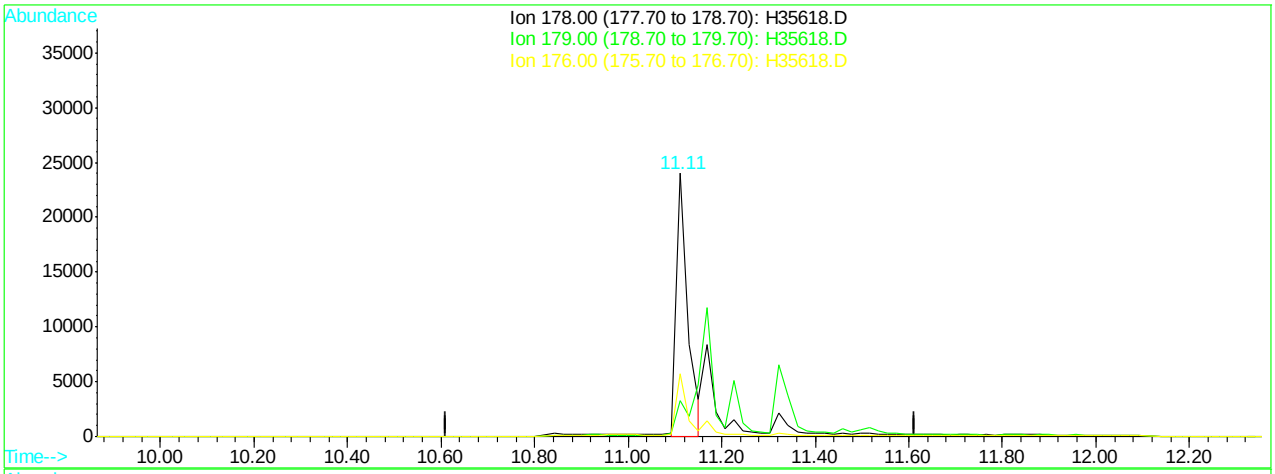
Ion	Exp%	Act%
82.00	100	100
128.00	91.60	115.09
54.00	43.10	76.18#
0.00	0.00	0.00

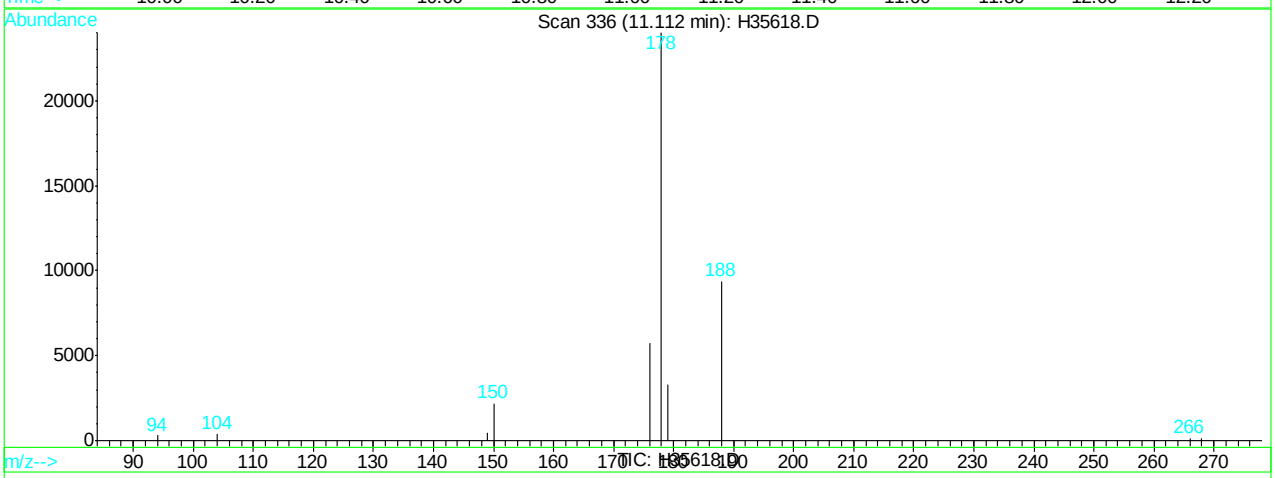
H35618.D H10269SP.M Mon Oct 26 19:19:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 1.70ppb m

response 41265

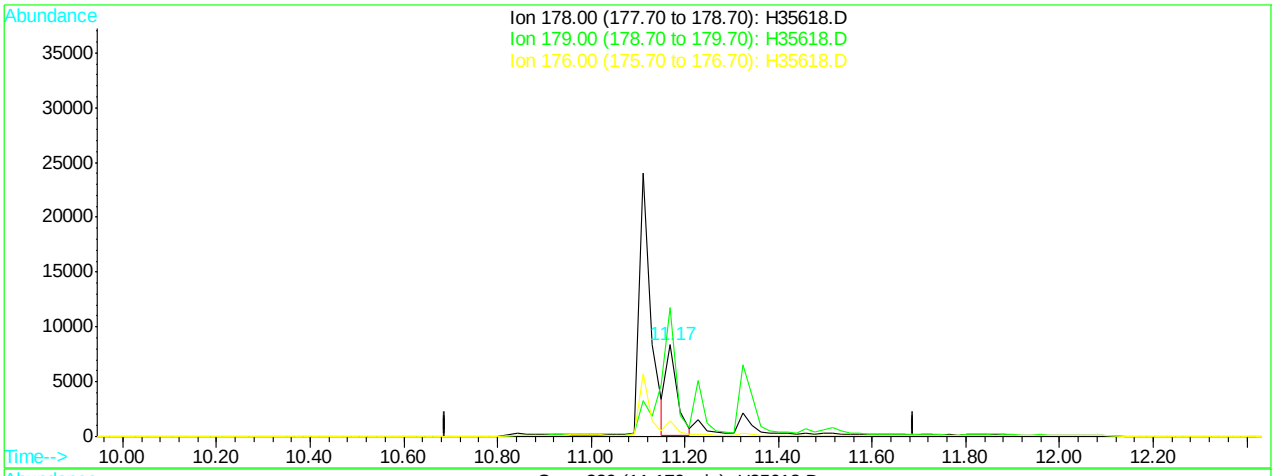
Ion	Exp%	Act%
178.00	100	100
179.00	12.90	13.73
176.00	22.90	23.88
0.00	0.00	0.00

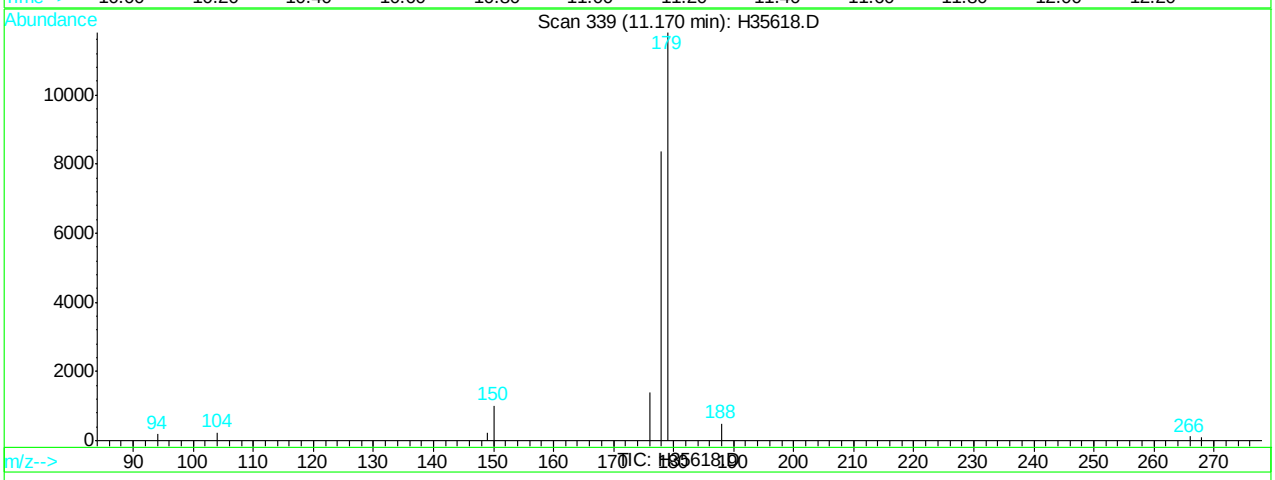
H35618.D H10269SP.M Mon Oct 26 19:19:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.41ppb m

response 12779

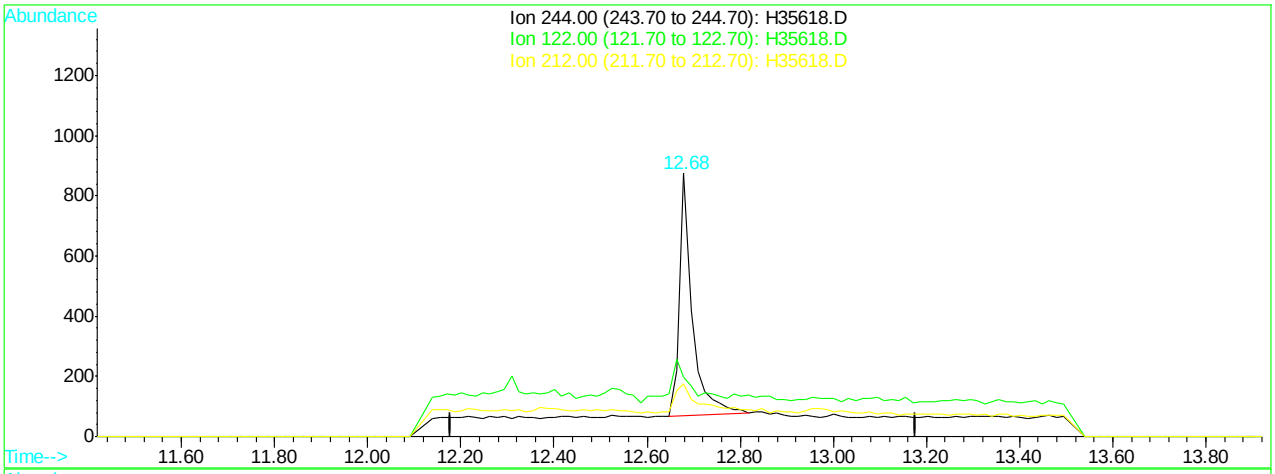
Ion	Exp%	Act%
178.00	100	100
179.00	16.30	140.98#
176.00	18.20	16.57
0.00	0.00	0.00

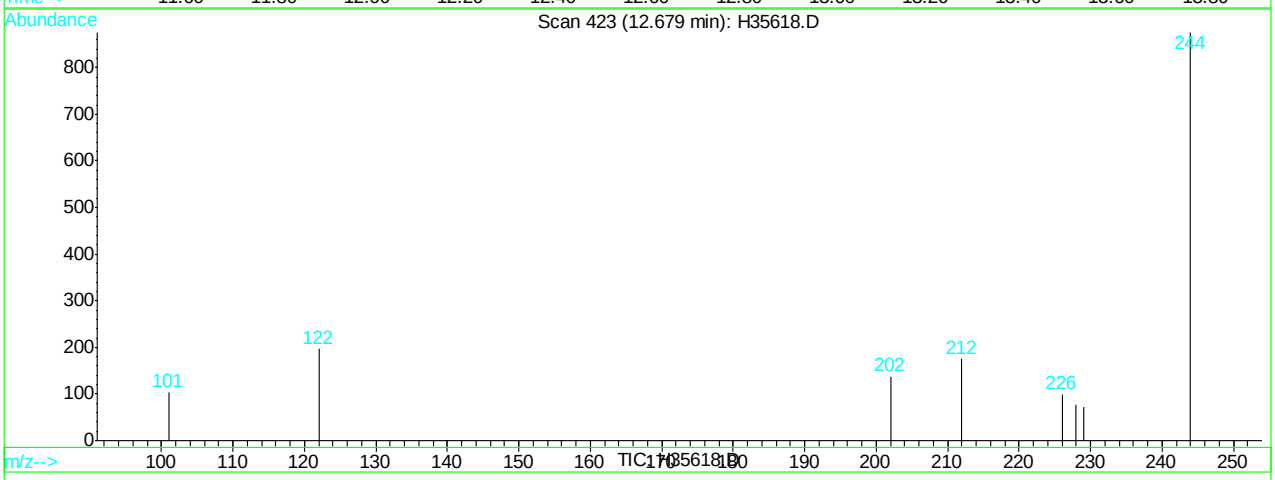
H35618.D H10269SP.M Mon Oct 26 19:19:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35618.D Vial: 10
Acq On : 26 Oct 2009 4:42 pm Operator: sheilac
Sample : t39646-2,40x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,40,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:20 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(23) Terphenyl-d14 (S)

12.68min 0.55ppb m

response 1542

Ion	Exp%	Act%
244.00	100	100
122.00	9.10	22.51#
212.00	9.00	20.00#
0.00	0.00	0.00

H35618.D H10269SP.M Mon Oct 26 19:19:51 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35596.D Vial: 18
Acq On : 23 Oct 2009 6:57 pm Operator: sheilac
Sample : t39646-3,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:59 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:57:44 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	88199	4.00	ppb	0.03
4) Naphthalene-d8	7.60	136	99633	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	68056	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	103262	4.00	ppb	0.00
21) Chrysene-d12	13.92	240	17887	4.00	ppb	0.02
26) Perylene-d12	16.40	264	4819	4.00	ppb	0.02
System Monitoring Compounds						
5) Nitrobenzene-d5	6.59	82	8601m	2.62	ppb	-0.02
Spiked Amount 5.000	Range 17 - 131		Recovery	=	52.40%	
10) 2-Fluorobiphenyl	8.87	172	236717	6.30	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	126.00%	
16) 2,4,6-Tribromophenol	10.42	330	37514	12.60	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	126.00%#	
23) Terphenyl-d14	12.66	244	34483	7.78	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	155.60%	

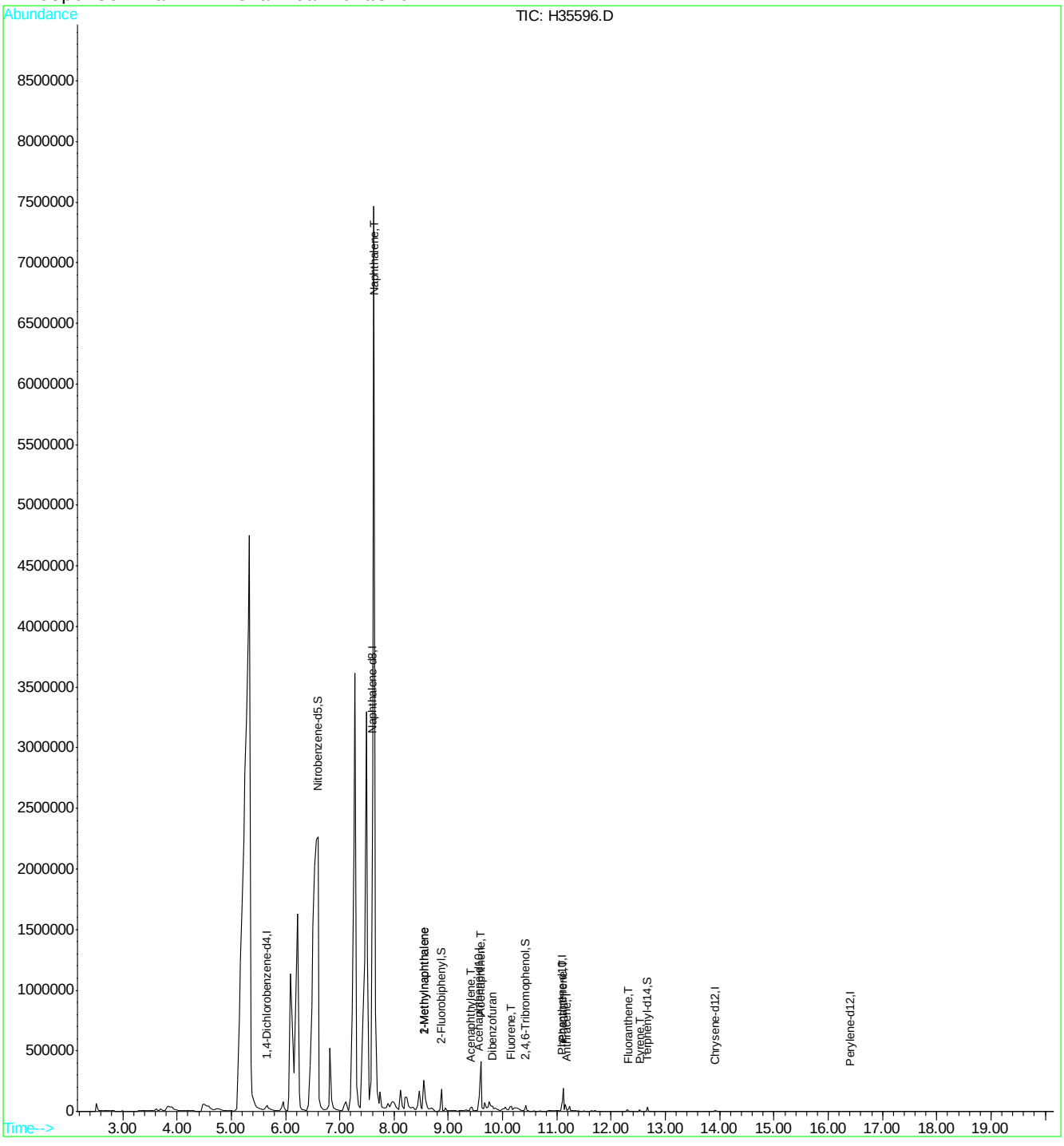
Target Compounds							Qvalue
6) Naphthalene	7.63	128	12502930	374.93	ppb		97
7) 2-Methylnaphthalene	8.55	142	122871	4.17	ppb	#	64
8) 1-Methylnaphthalene	8.55	142	122871	3.31	ppb	#	81
11) Acenaphthylene	9.41	152	37328m	0.91	ppb		
12) Acenaphthene	9.60	153	270350	7.12	ppb	#	74
13) Dibenzofuran	9.81	168	57654	1.63	ppb	#	1
14) Fluorene	10.16	166	20500	1.14	ppb	#	73
18) Phenanthrene	11.11	178	164421m	3.65	ppb		
19) Anthracene	11.17	178	43187m	0.83	ppb		
20) Fluoranthene	12.31	202	21043	1.03	ppb	#	87
22) Pyrene	12.53	202	15458	0.53	ppb		100

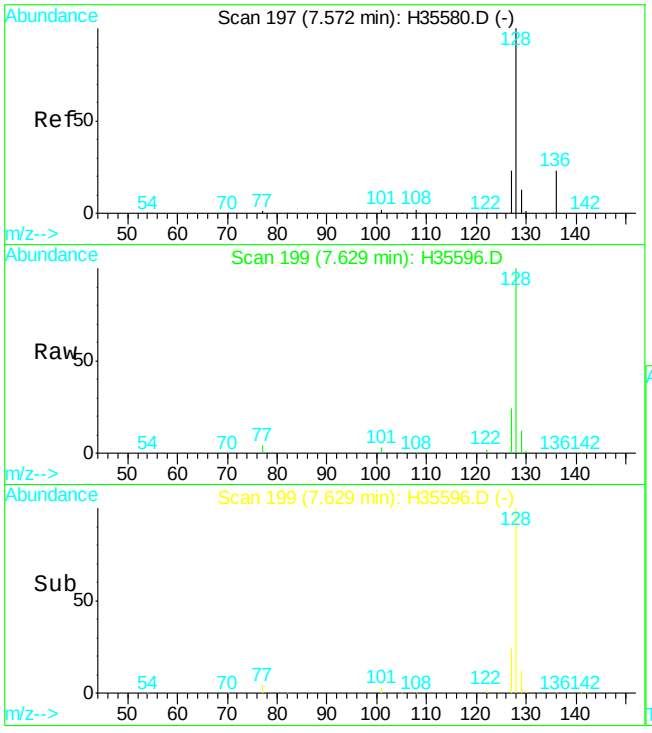
(#) = qualifier out of range (m) = manual integration
H35596.D H10239SP.M Mon Oct 26 13:08:06 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35596.D Vial: 18
Acq On : 23 Oct 2009 6:57 pm Operator: sheilac
Sample : t39646-3,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:59 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:57:44 2009
Response via : Initial Calibration

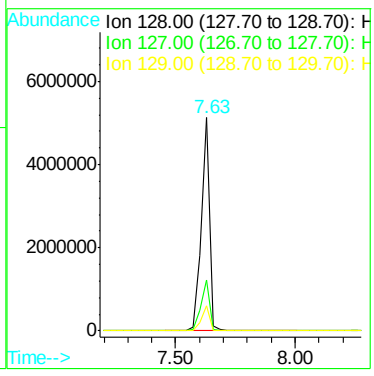


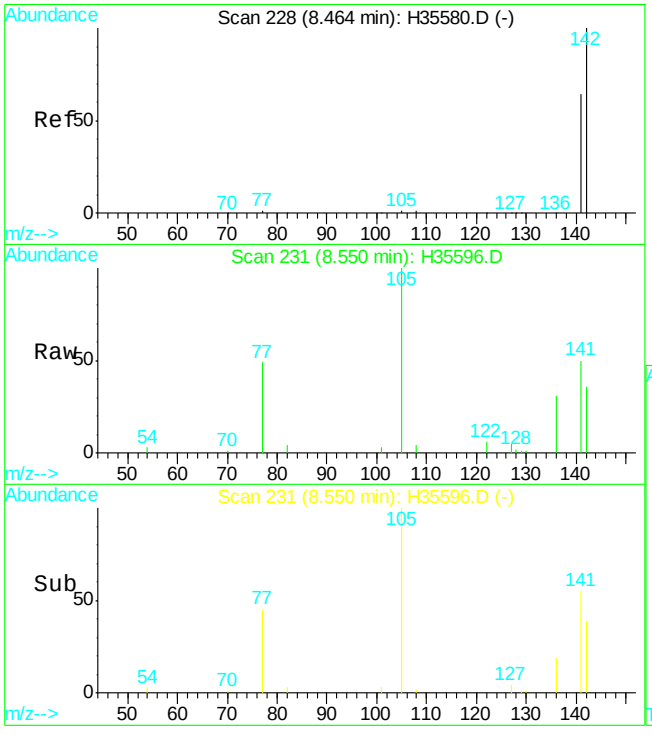


#6
Naphthalene
Concen: 374.93 ppb
RT: 7.63 min Scan# 199
Delta R.T. -0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:128 Resp:12502930

Ion	Ratio	Lower	Upper
128	100		
127	23.6	15.3	28.5
129	11.8	8.5	15.9

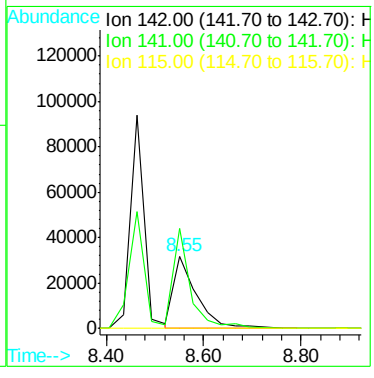


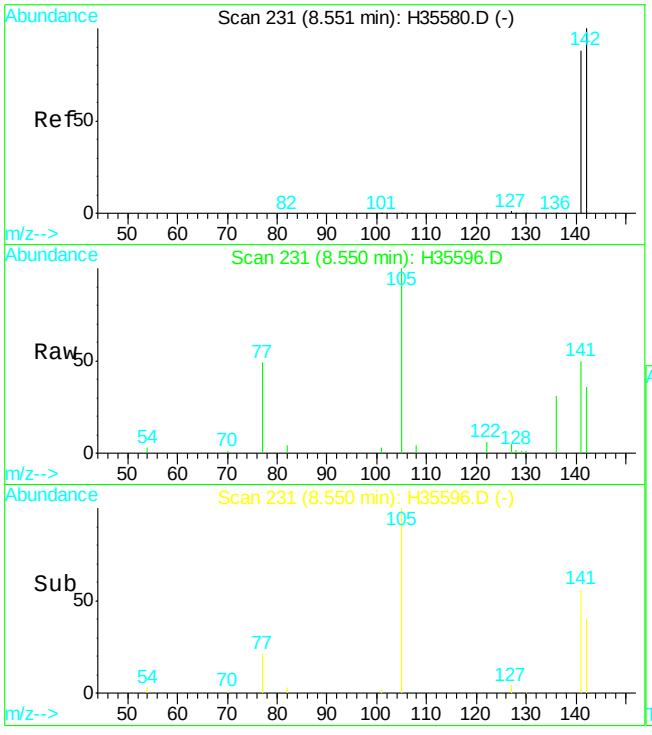


#7
2-Methylnaphthalene
Concen: 4.17 ppb
RT: 8.55 min Scan# 231
Delta R.T. 0.02 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:142 Resp: 122871

Ion	Ratio	Lower	Upper
142	100		
141	103.7	104.0	193.1#
115	0.0	0.0	0.0

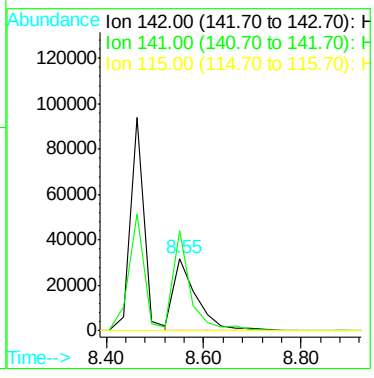


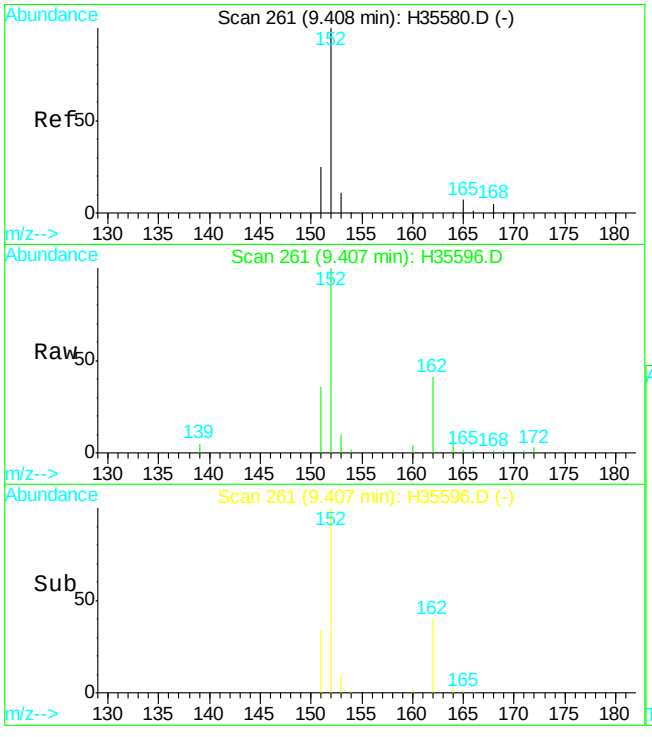


#8
1-Methylnaphthalene
Concen: 3.31 ppb
RT: 8.55 min Scan# 231
Delta R.T. -0.07 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:142 Resp: 122871

Ion	Ratio	Lower	Upper
142	100		
141	103.7	60.5	112.5
115	0.0	0.0	0.0

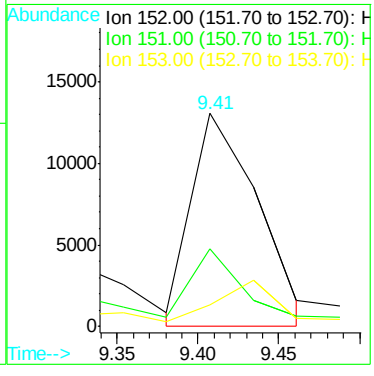


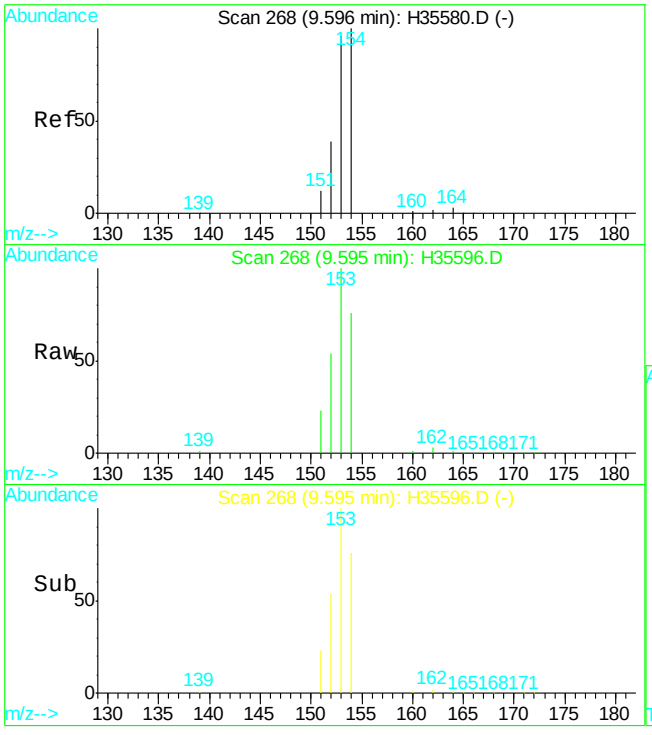


#11
Acenaphthylene
Concen: 0.91 ppb m
RT: 9.41 min Scan# 261
Delta R.T. 0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:152 Resp: 37328

Ion	Ratio	Lower	Upper
152	100		
151	36.4	17.8	33.0#
153	10.3	7.4	13.8

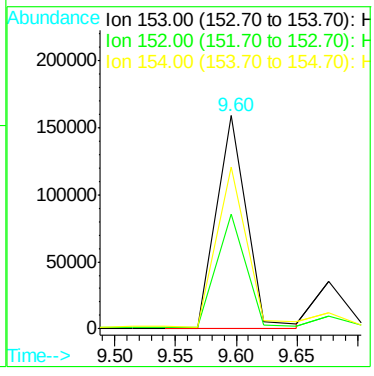


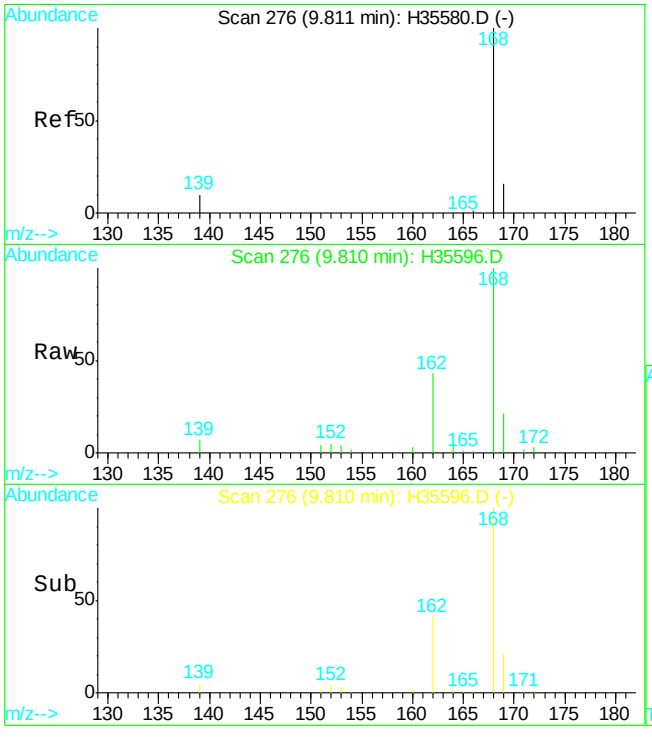


#12
Acenaphthene
Concen: 7.12 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:153 Resp: 270350

Ion	Ratio	Lower	Upper
153	100		
152	53.8	28.7	53.3#
154	74.7	72.9	135.5

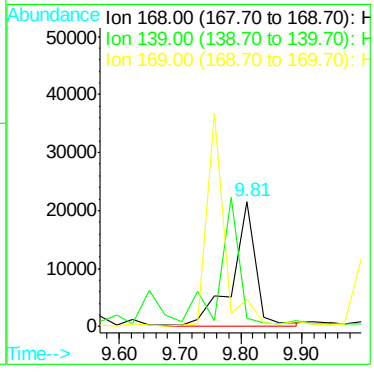


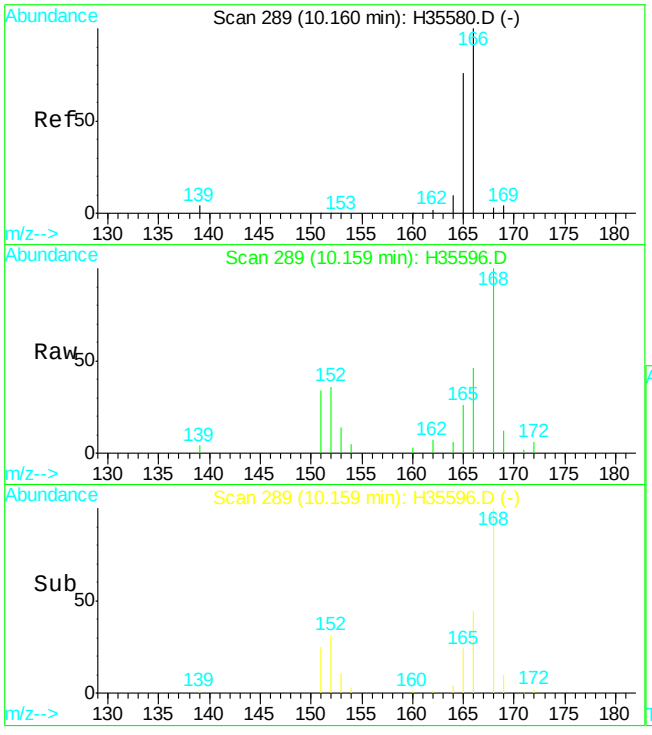


#13
Dibenzofuran
Concen: 1.63 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:168 Resp: 57654

Ion	Ratio	Lower	Upper
168	100		
139	86.8	33.7	62.5#
169	123.5	9.8	18.2#

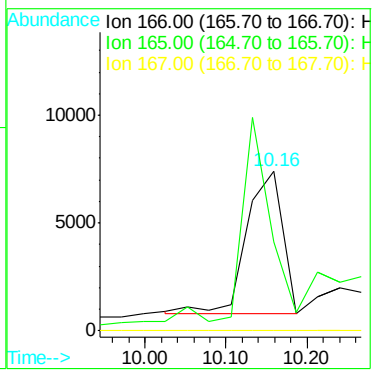


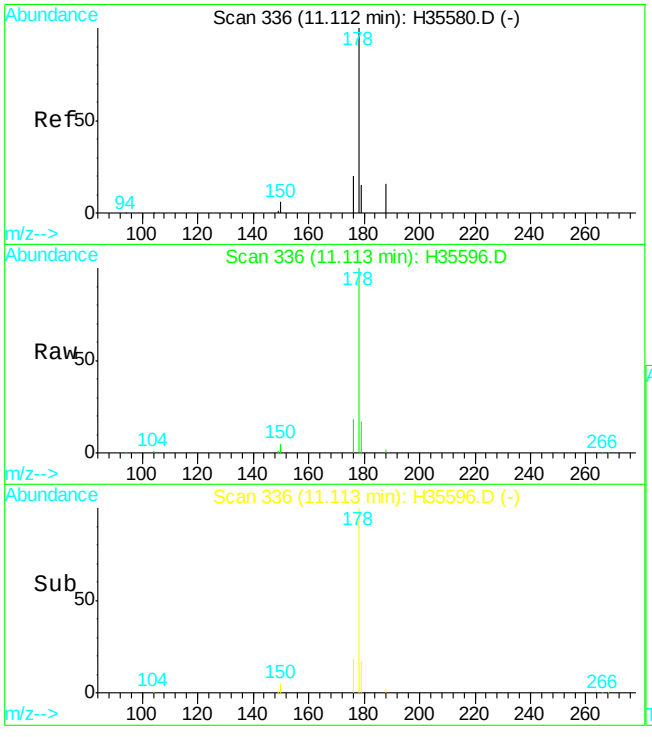


#14
Fluorene
Concen: 1.14 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:166 Resp: 20500

Ion	Ratio	Lower	Upper
166	100		
165	52.8	53.1	98.7#
167	0.0	0.0	0.0

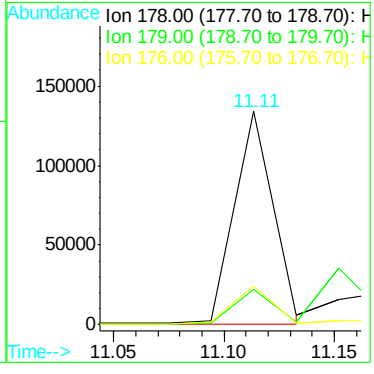


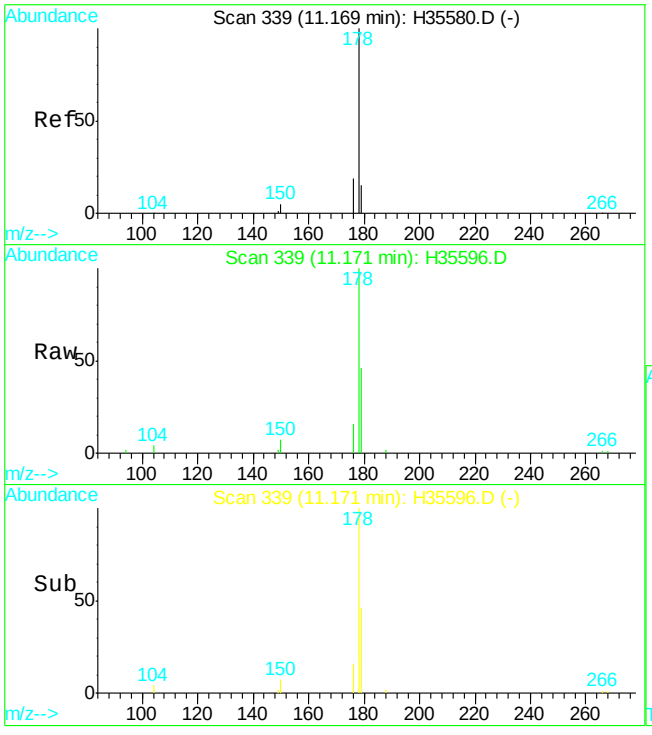


#18
Phenanthrene
Concen: 3.65 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:178 Resp: 164421

Ion	Ratio	Lower	Upper
178	100		
179	16.5	10.6	19.6
176	18.0	13.7	25.5

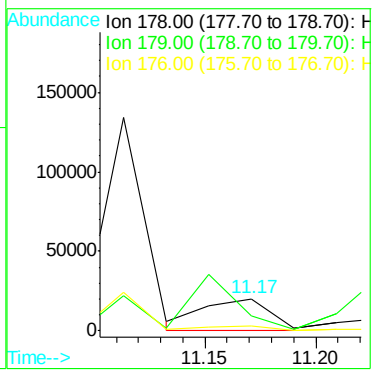


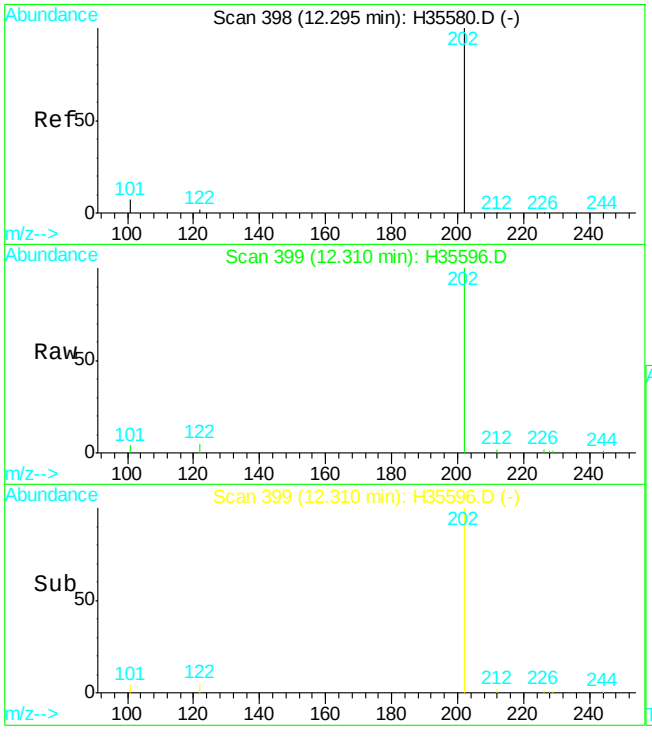


#19
Anthracene
Concen: 0.83 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:178 Resp: 43187

Ion	Ratio	Lower	Upper
178	100		
179	46.0	10.6	19.6#
176	15.7	13.3	24.7

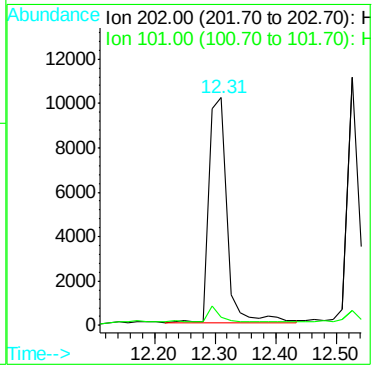


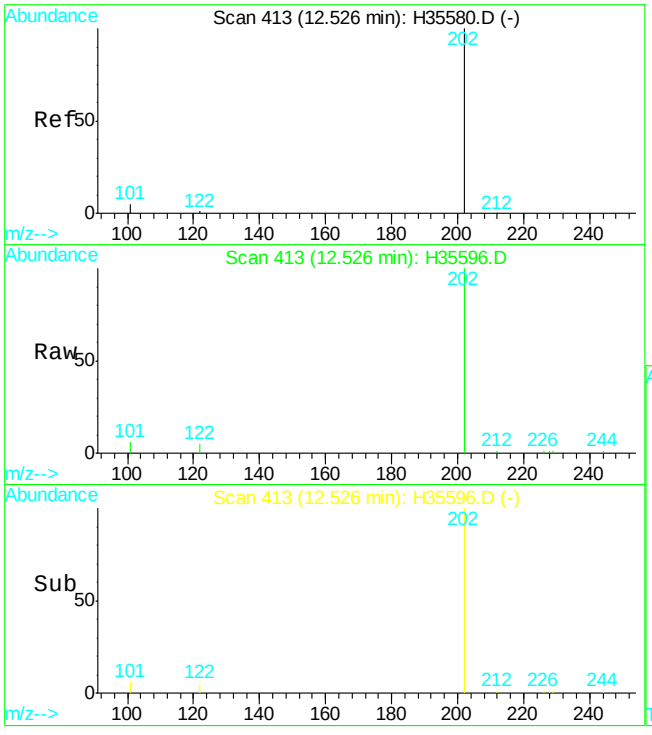


#20
Fluoranthene
Concen: 1.03 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:202 Resp: 21043

Ion	Ratio	Lower	Upper
202	100		
101	2.2	4.6	8.6#

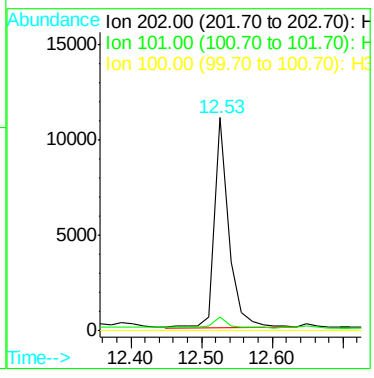




#22
Pyrene
Concen: 0.53 ppb
RT: 12.53 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35596.D
Acq: 23 Oct 2009 6:57 pm

Tgt Ion:202 Resp: 15458

Ion	Ratio	Lower	Upper
202	100		
101	4.9	3.5	6.5
100	0.0	0.0	0.0



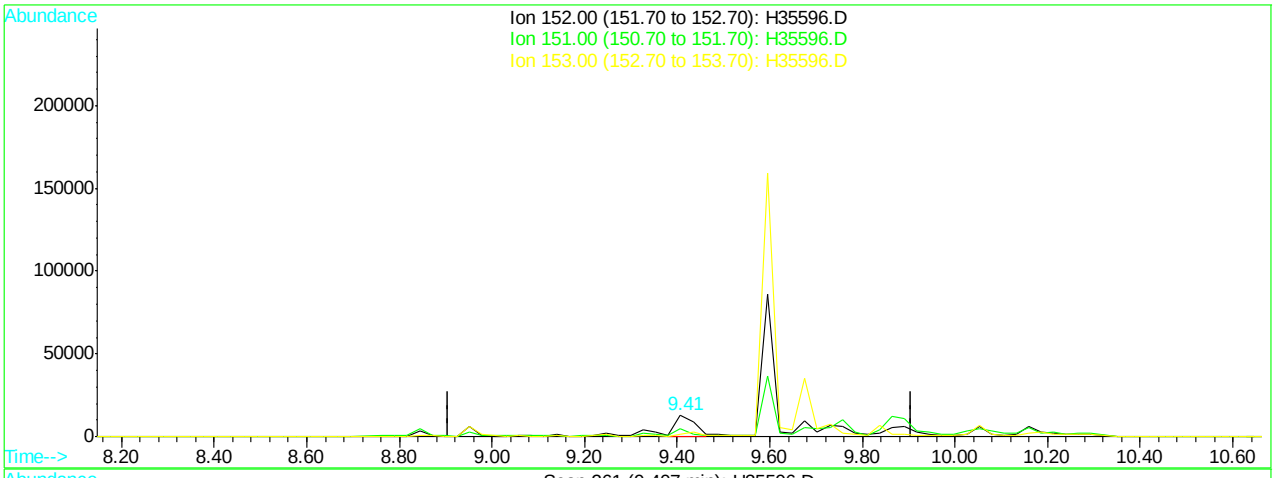
8.1.36

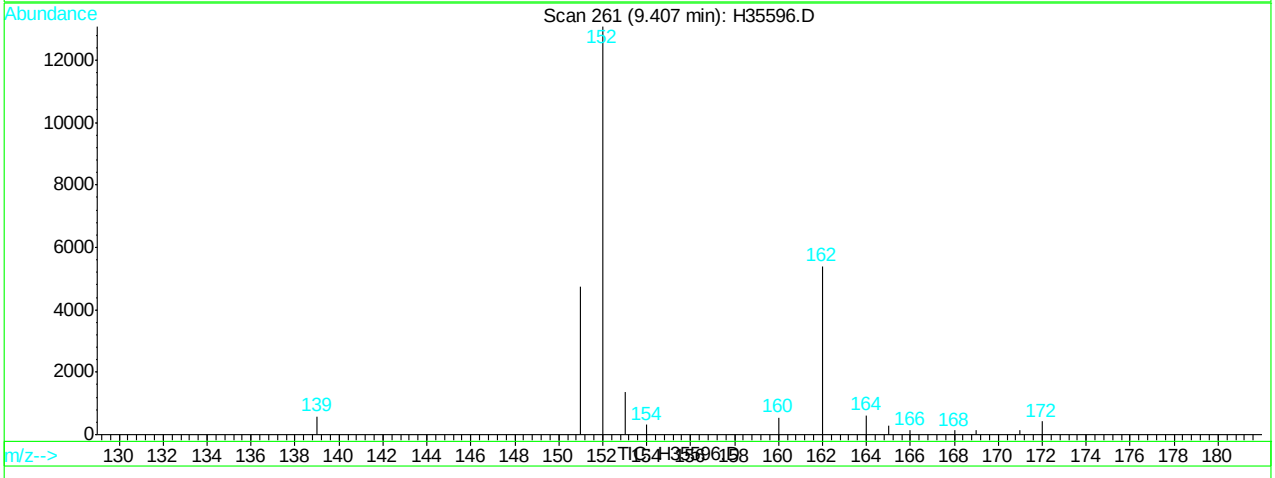
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35596.D Vial: 18
Acq On : 23 Oct 2009 6:57 pm Operator: sheilac
Sample : t39646-3,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:57:44 2009
Response via : Multiple Level Calibration





(11) Acenaphthylene (T)

9.41min 0.91ppb m

response 37328

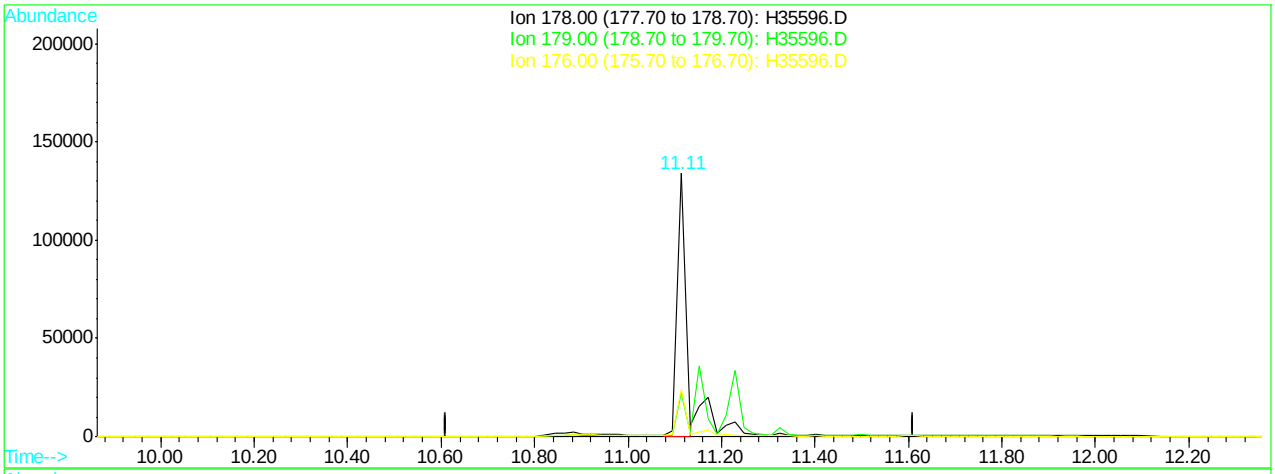
Ion	Exp%	Act%
152.00	100	100
151.00	25.40	36.41#
153.00	10.60	10.34
0.00	0.00	0.00

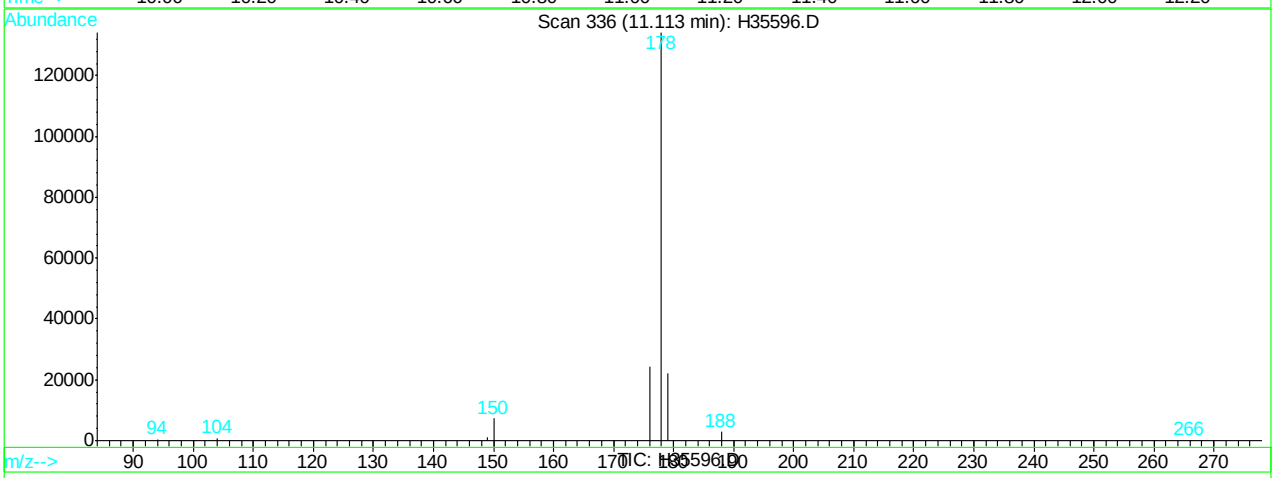
H35596.D H10239SP.M Mon Oct 26 13:08:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35596.D Vial: 18
Acq On : 23 Oct 2009 6:57 pm Operator: sheilac
Sample : t39646-3,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:57:44 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 3.65ppb m

response 164421

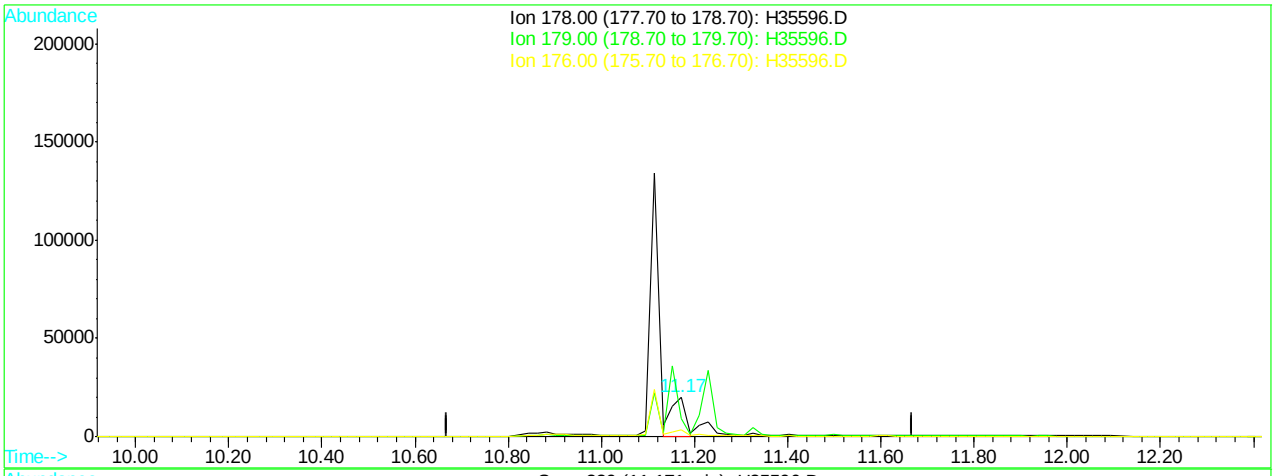
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	16.55
176.00	19.60	18.05
0.00	0.00	0.00

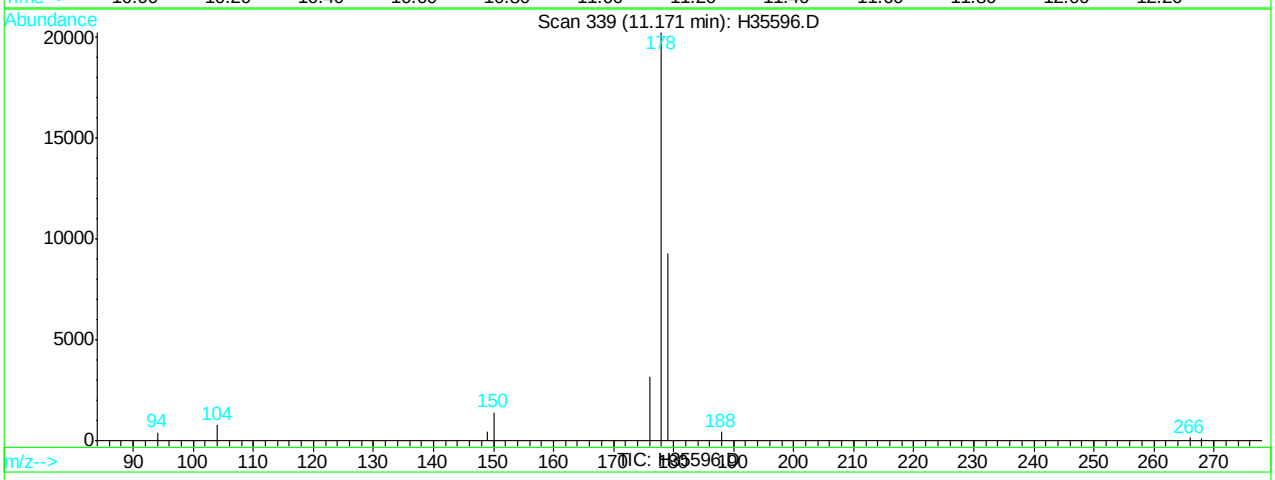
H35596.D H10239SP.M Mon Oct 26 13:08:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35596.D Vial: 18
Acq On : 23 Oct 2009 6:57 pm Operator: sheilac
Sample : t39646-3,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:57:44 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.83ppb m

response 43187

Ion	Exp%	Act%
178.00	100	100
179.00	15.10	45.97#
176.00	19.00	15.72
0.00	0.00	0.00

H35596.D H10239SP.M Mon Oct 26 13:08:42 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35619.D Vial: 11
Acq On : 26 Oct 2009 5:10 pm Operator: sheilac
Sample : t39646-4 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:33 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 17:33:10 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	56398	4.00	ppb	0.03
4) Naphthalene-d8	7.54	136	114638	4.00	ppb	0.00
9) Acenaphthene-d10	9.59	164	36708	4.00	ppb	0.03
15) Phenanthrene-d10	11.09	188	42353	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	6334	4.00	ppb	-0.03
26) Perylene-d12	16.40	264	2878	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.60	82	119163	31.27	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 625.40%#			
10) 2-Fluorobiphenyl	8.87	172	880350	45.13	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 902.60%#			
16) 2,4,6-Tribromophenol	10.42	330	208076	147.12	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1471.20%#			
23) Terphenyl-d14	12.66	244	123709	73.07	ppb	-0.01
Spiked Amount 5.000	Range 10 - 160		Recovery = 1461.40%#			

Target Compounds

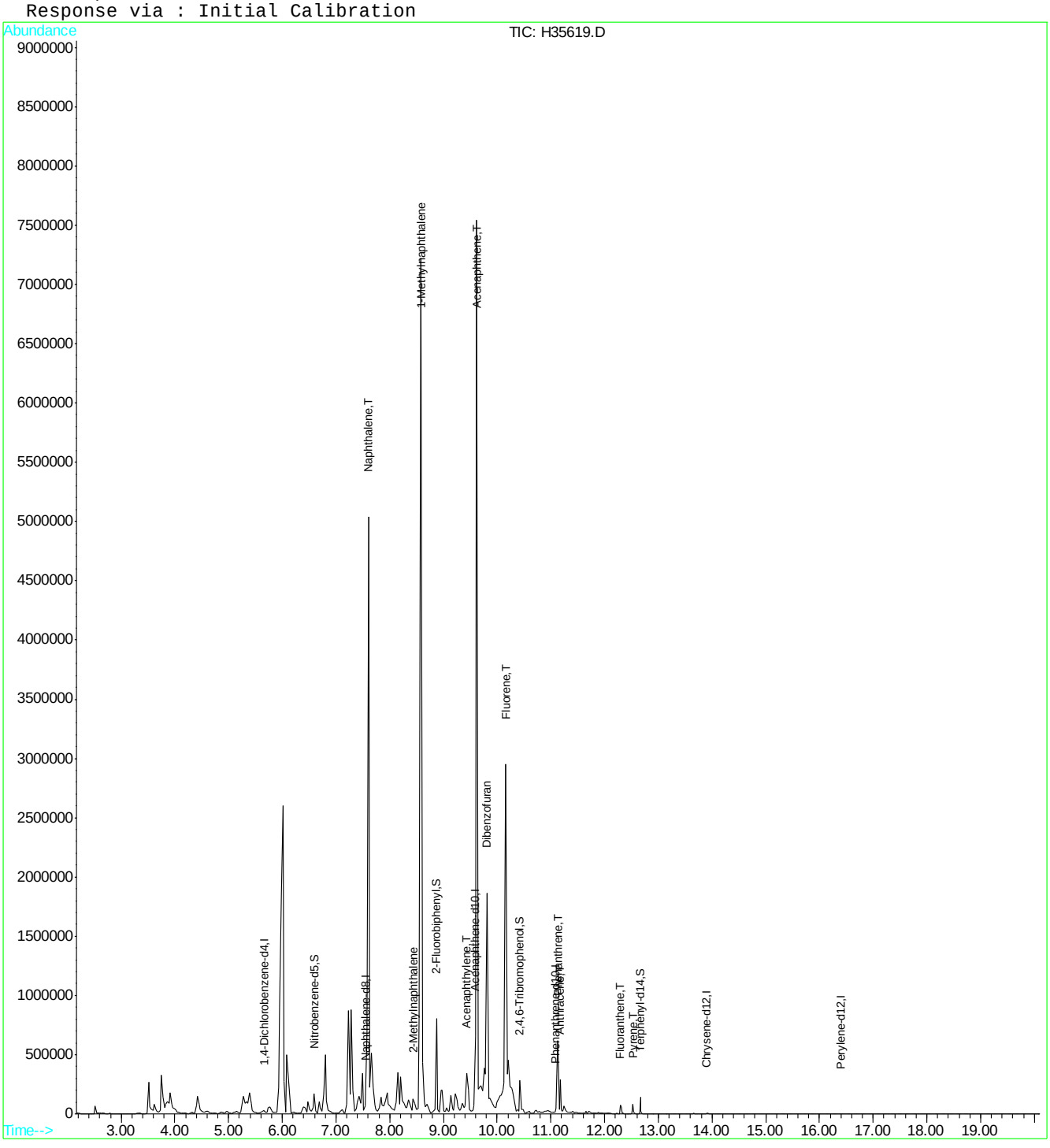
							Qvalue
6) Naphthalene	7.60	128	6974758	163.00	ppb		97
7) 2-Methylnaphthalene	8.44	142	85862	3.32	ppb	#	15
8) 1-Methylnaphthalene	8.58	142	7937834	103.71	ppb	#	70
11) Acenaphthylene	9.43	152	407401	15.58	ppb	#	64
12) Acenaphthene	9.62	153	5421474	269.36	ppb		88
13) Dibenzofuran	9.81	168	2689478	142.24	ppb	#	56
14) Fluorene	10.16	166	2227289	183.49	ppb		100
18) Phenanthrene	11.13	178	766222m	44.97	ppb		
19) Anthracene	11.17	178	225407m	10.38	ppb		
20) Fluoranthene	12.29	202	120071	10.54	ppb	#	93
22) Pyrene	12.53	202	92130	8.32	ppb	#	92

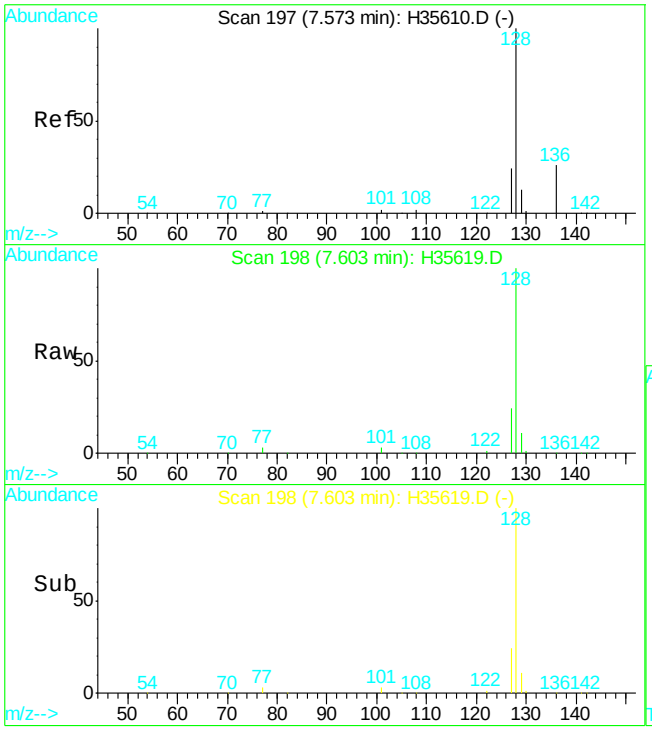
(#) = qualifier out of range (m) = manual integration
H35619.D H10269SP.M Tue Oct 27 14:52:21 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35619.D Vial: 11
Acq On : 26 Oct 2009 5:10 pm Operator: sheilac
Sample : t39646-4 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:33 2009 Quant Results File: H10269SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

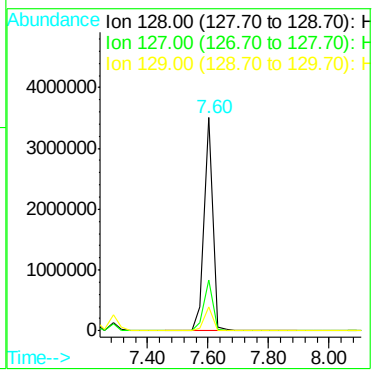


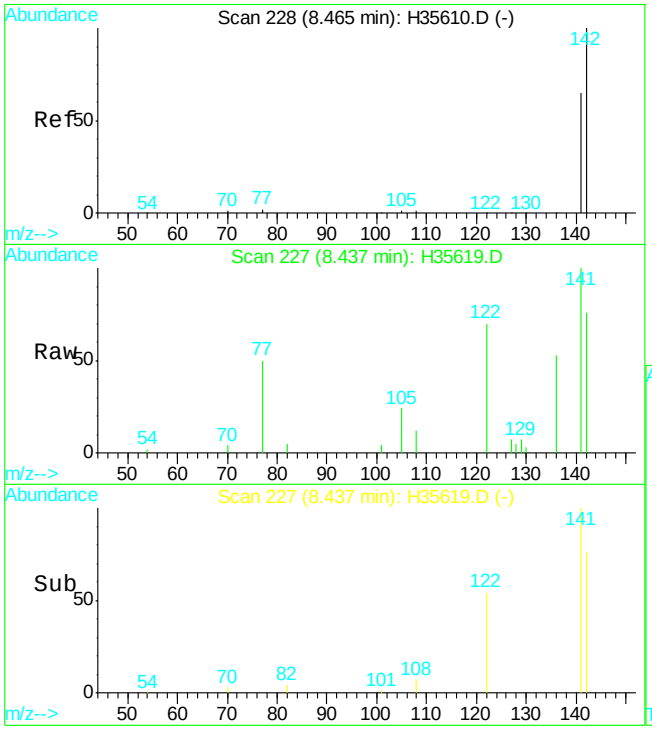


#6
Naphthalene
Concen: 163.00 ppb
RT: 7.60 min Scan# 198
Delta R.T. 0.03 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:128 Resp: 6974758

Ion	Ratio	Lower	Upper
128	100		
127	24.1	15.8	29.4
129	11.3	8.5	15.9

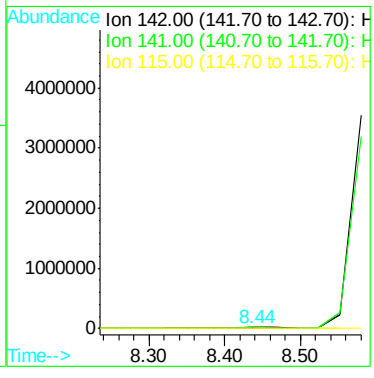


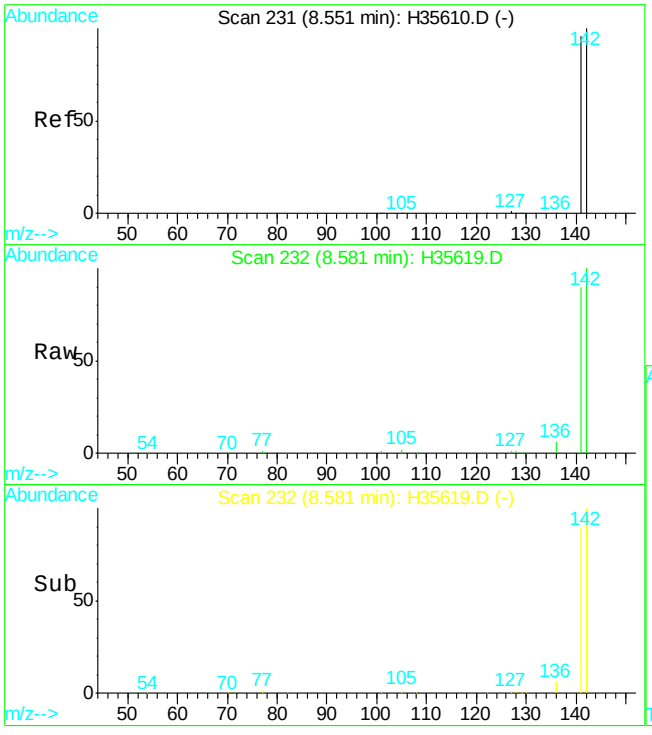


#7
2-Methylnaphthalene
Concen: 3.32 ppb
RT: 8.44 min Scan# 227
Delta R.T. -0.03 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:142 Resp: 85862

Ion	Ratio	Lower	Upper
142	100		
141	96.3	168.7	313.3#
115	0.0	0.0	0.0

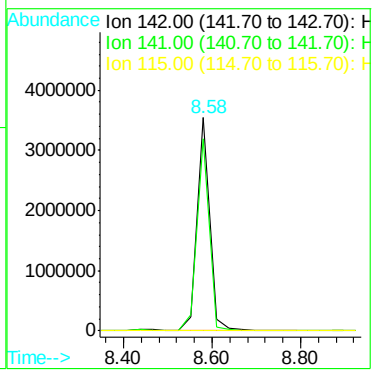


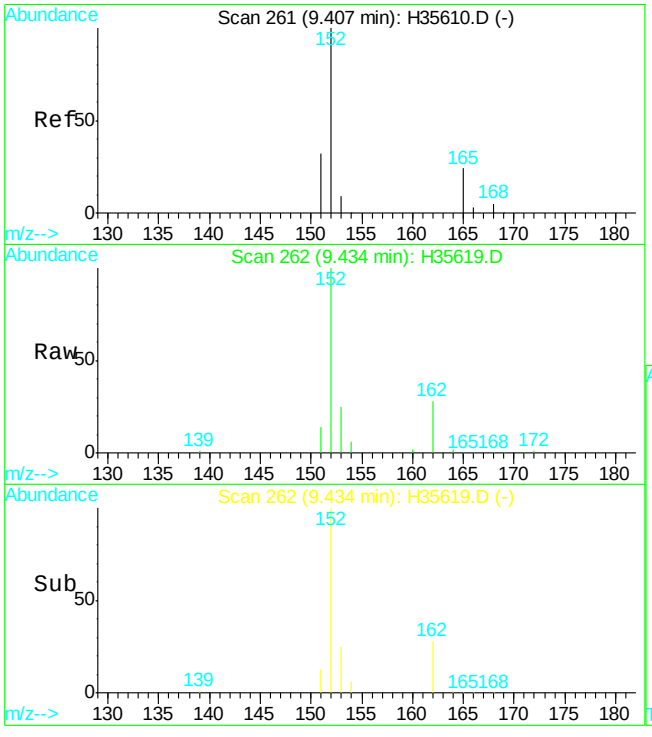


#8
1-Methylnaphthalene
Concen: 103.71 ppb
RT: 8.58 min Scan# 232
Delta R.T. 0.03 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:142 Resp: 7937834

Ion	Ratio	Lower	Upper
142	100		
141	88.3	85.3	158.3
115	0.0	0.0	0.0

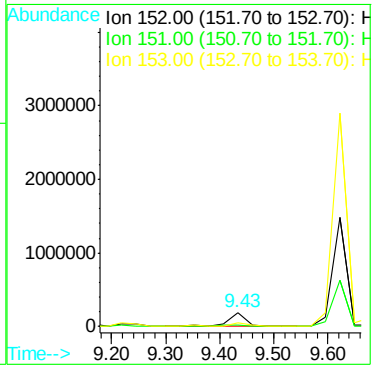


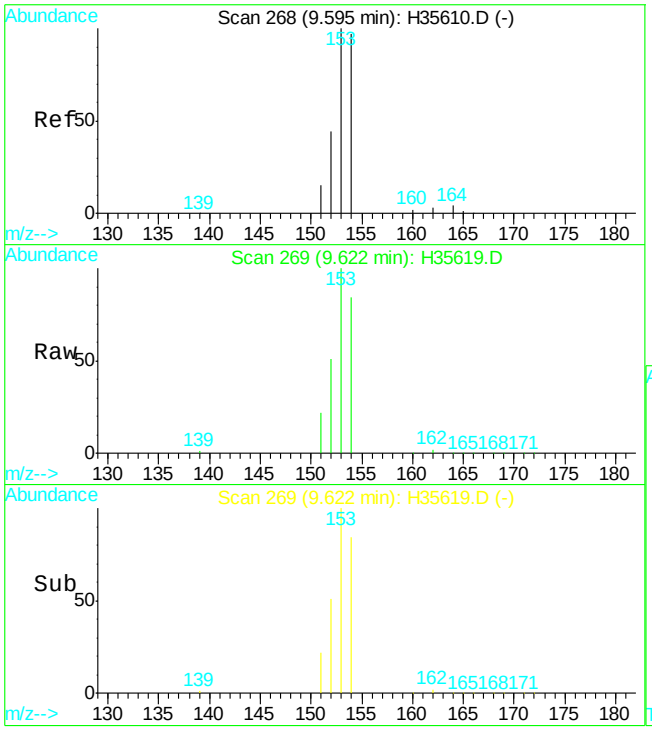


#11
Acenaphthylene
Concen: 15.58 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:152 Resp: 407401

Ion	Ratio	Lower	Upper
152	100		
151	13.8	22.8	42.4#
153	24.0	5.9	11.1#

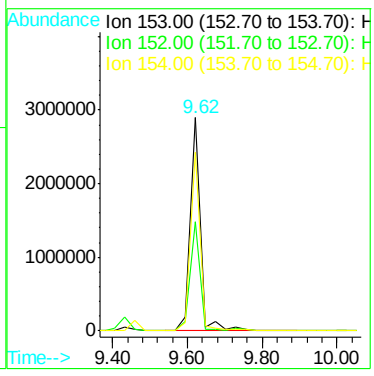


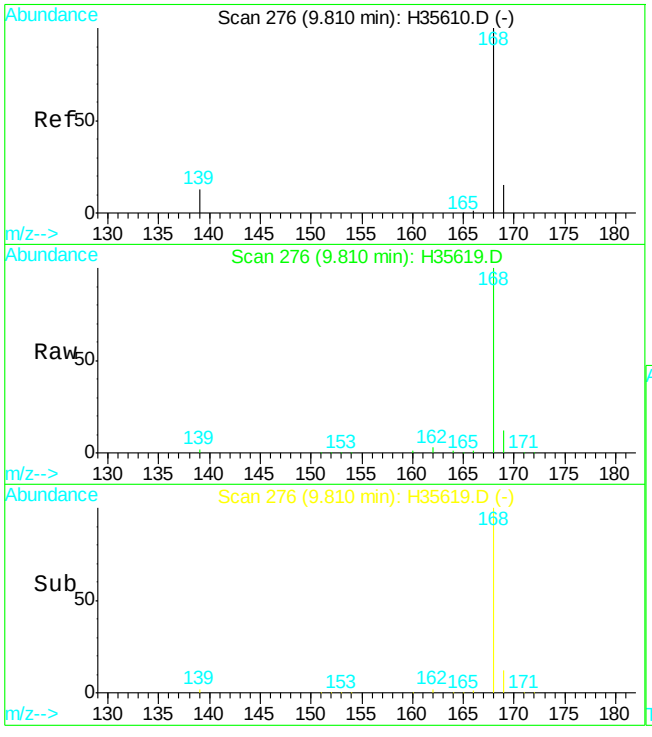


#12
Acenaphthene
Concen: 269.36 ppb
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:153 Resp: 5421474

Ion	Ratio	Lower	Upper
153	100		
152	50.8	31.0	57.6
154	84.0	67.6	125.6

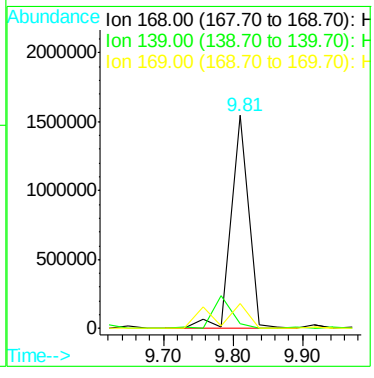


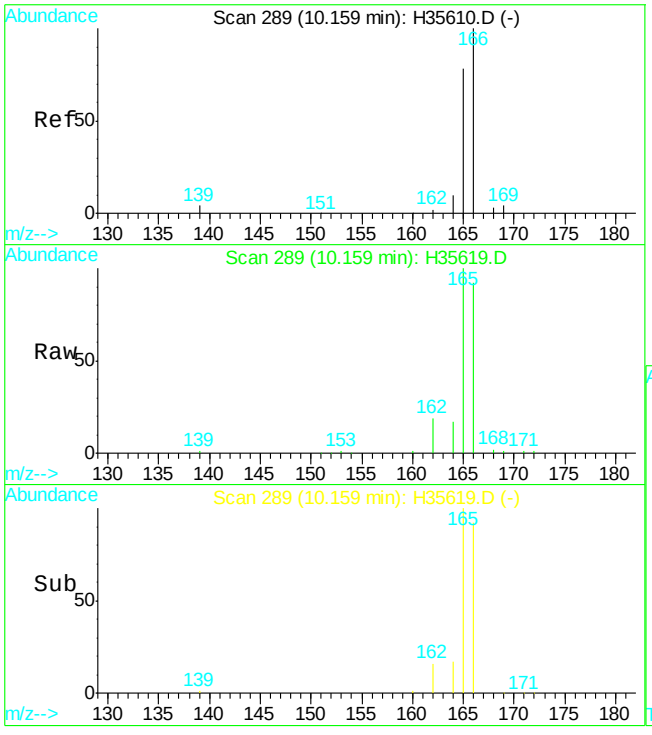


#13
Dibenzofuran
Concen: 142.24 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:168 Resp: 2689478

Ion	Ratio	Lower	Upper
168	100		
139	17.5	37.9	70.5#
169	22.4	10.6	19.6#

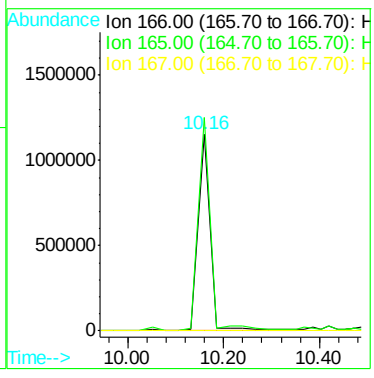


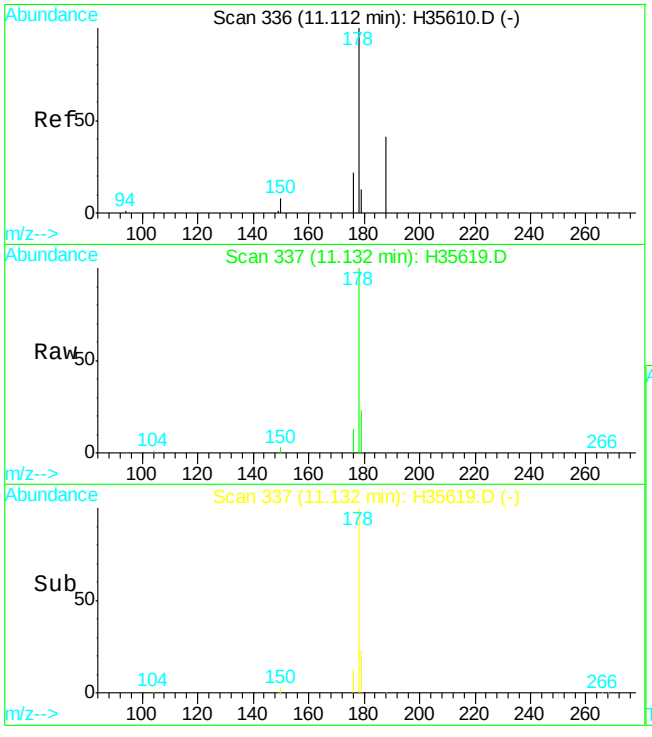


#14
Fluorene
Concen: 183.49 ppb
RT: 10.16 min Scan# 289
Delta R.T. 0.00 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:166 Resp: 2227289

Ion	Ratio	Lower	Upper
166	100		
165	108.1	75.7	140.7
167	0.0	0.0	0.0

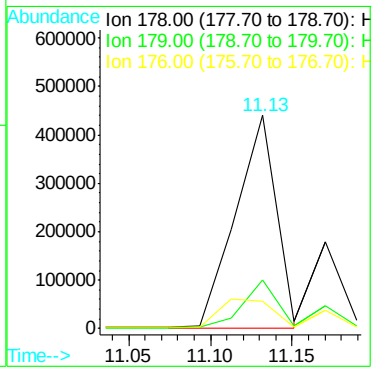


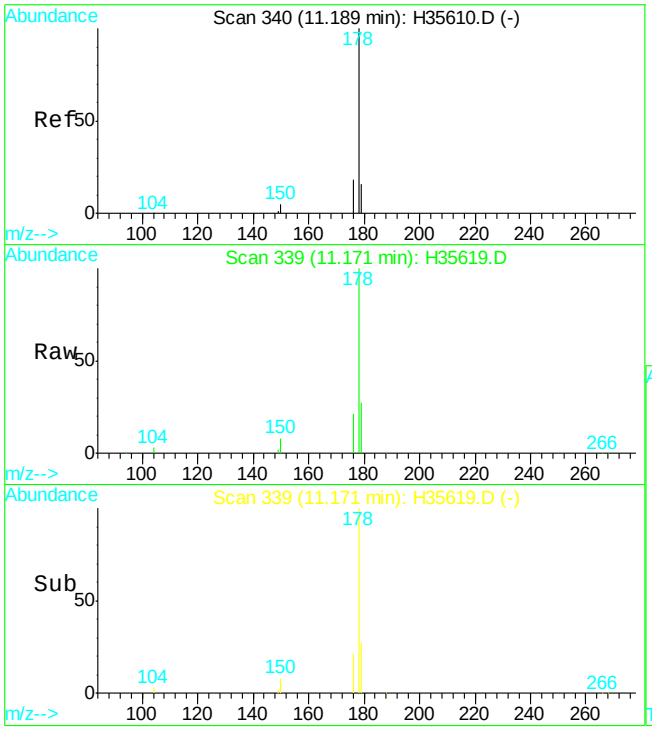


#18
Phenanthrene
Concen: 44.97 ppb m
RT: 11.13 min Scan# 337
Delta R.T. 0.02 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:178 Resp: 766222

Ion	Ratio	Lower	Upper
178	100		
179	22.5	9.0	16.8#
176	12.6	16.0	29.8#

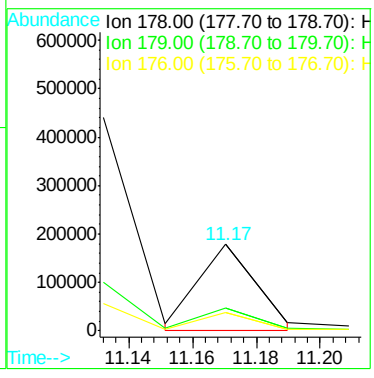


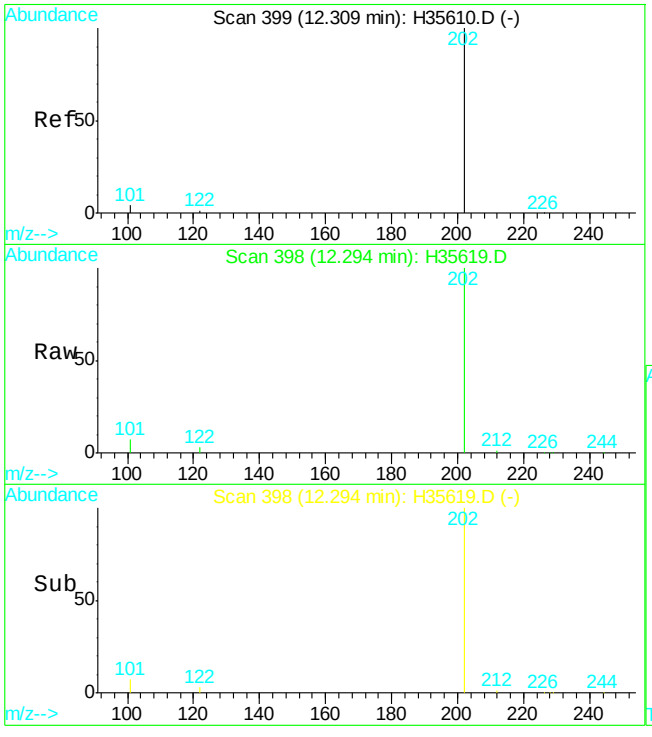


#19
Anthracene
Concen: 10.38 ppb m
RT: 11.17 min Scan# 339
Delta R.T. -0.02 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:178 Resp: 225407

Ion	Ratio	Lower	Upper
178	100		
179	27.0	11.4	21.2#
176	21.3	12.7	23.7

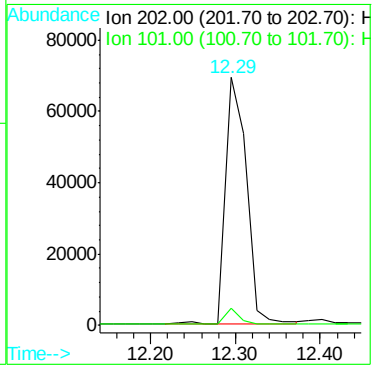


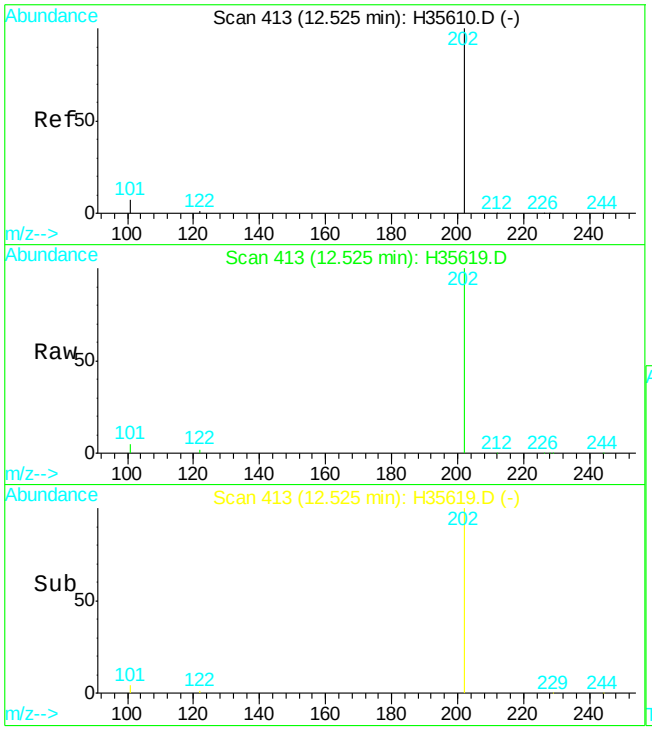


#20
Fluoranthene
Concen: 10.54 ppb
RT: 12.29 min Scan# 398
Delta R.T. -0.01 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:202 Resp: 120071

Ion	Ratio	Lower	Upper
202	100		
101	6.4	2.8	5.2#

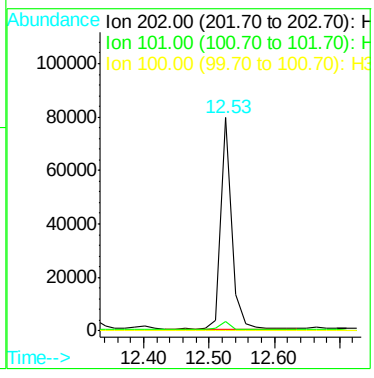




#22
Pyrene
Concen: 8.32 ppb
RT: 12.53 min Scan# 413
Delta R.T. 0.00 min
Lab File: H35619.D
Acq: 26 Oct 2009 5:10 pm

Tgt Ion:202 Resp: 92130

Ion	Ratio	Lower	Upper
202	100		
101	4.2	4.8	9.0#
100	0.0	0.0	0.0



8.1.37

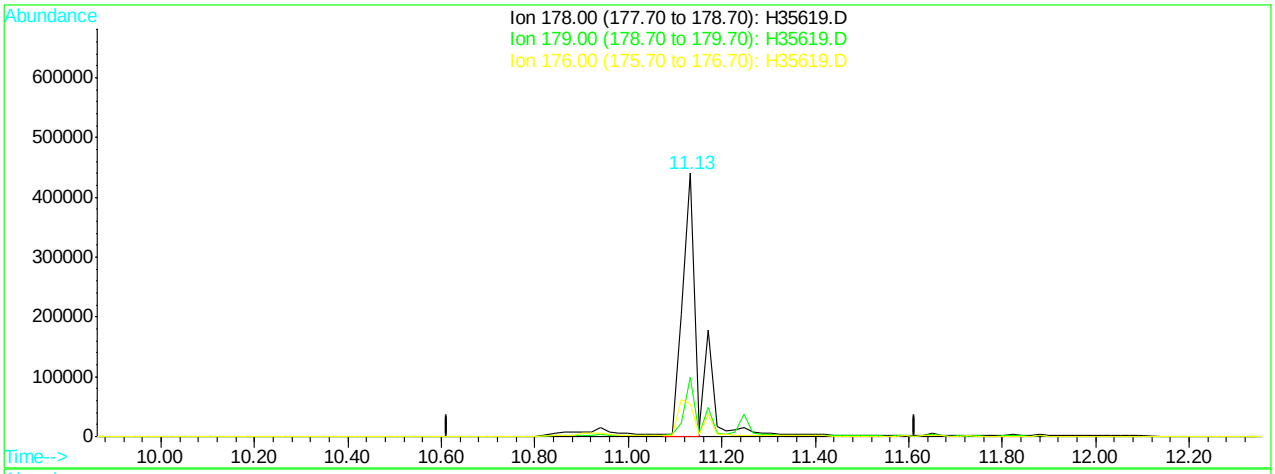
8

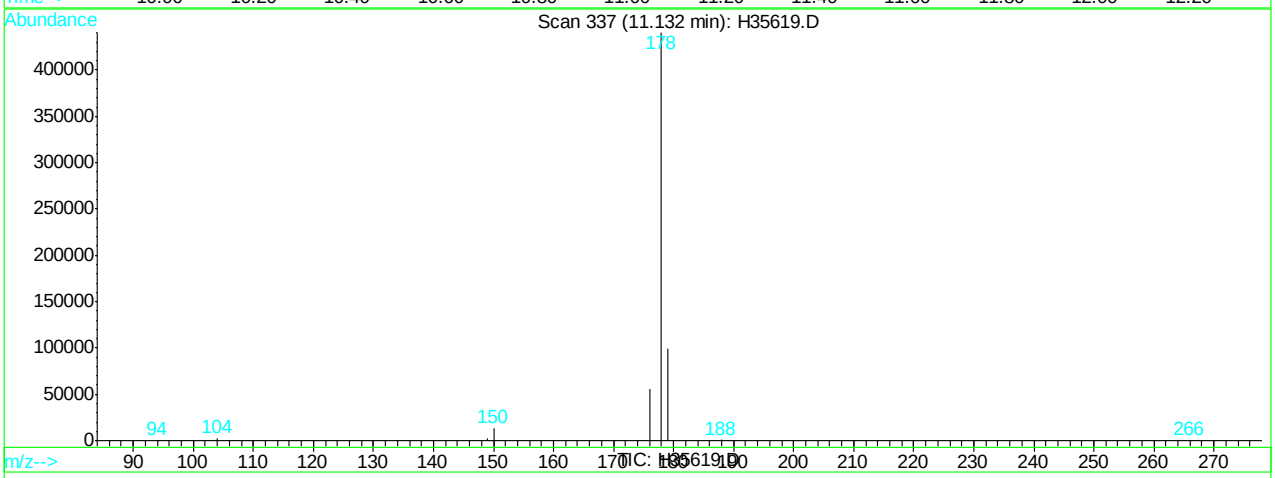
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35619.D Vial: 11
Acq On : 26 Oct 2009 5:10 pm Operator: sheilac
Sample : t39646-4 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.13min 44.97ppb m

response 766222

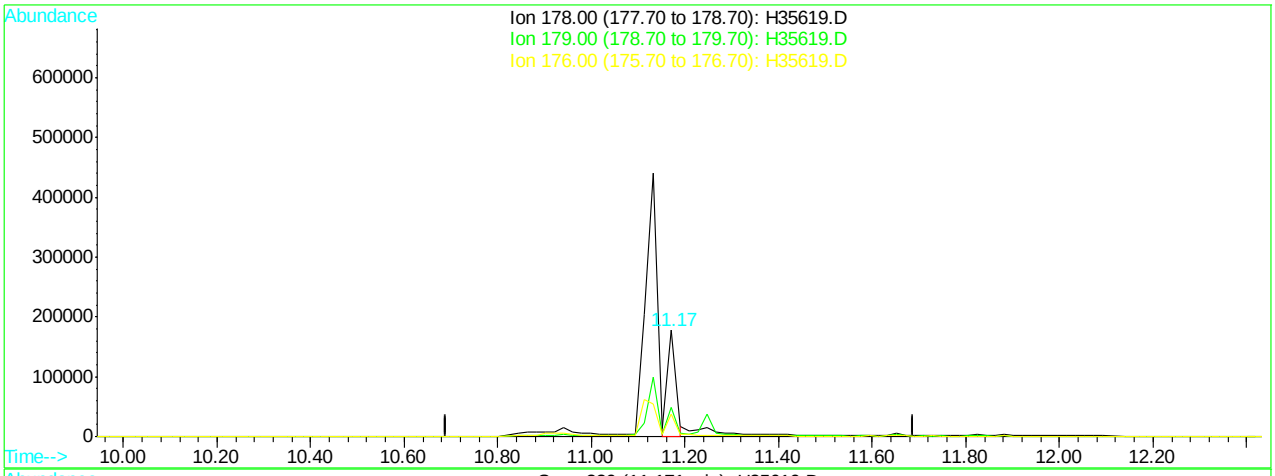
Ion	Exp%	Act%
178.00	100	100
179.00	12.90	22.55#
176.00	22.90	12.56#
0.00	0.00	0.00

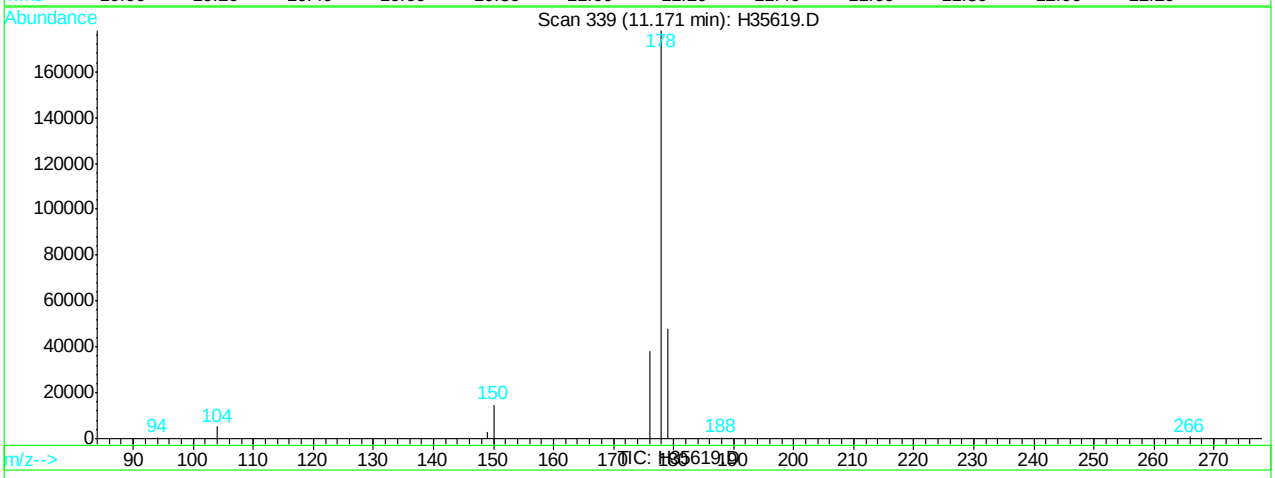
H35619.D H10269SP.M Tue Oct 27 14:52:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35619.D Vial: 11
Acq On : 26 Oct 2009 5:10 pm Operator: sheilac
Sample : t39646-4 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 10.38ppb m

response 225407

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	27.02#
176.00	18.20	21.35
0.00	0.00	0.00

H35619.D H10269SP.M Tue Oct 27 14:52:35 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	88599	4.00	ppb	0.03
4) Naphthalene-d8	7.60	136	102950	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	62056	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	112878	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	17503	4.00	ppb	0.00
26) Perylene-d12	16.40	264	4346	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.59	82	7460m	2.20	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	44.00%	
10) 2-Fluorobiphenyl	8.87	172	209359m	6.11	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	122.20%	
16) 2,4,6-Tribromophenol	10.42	330	42364	13.01	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	130.10%#	
23) Terphenyl-d14	12.66	244	37299	8.00	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	160.00%	

Target Compounds

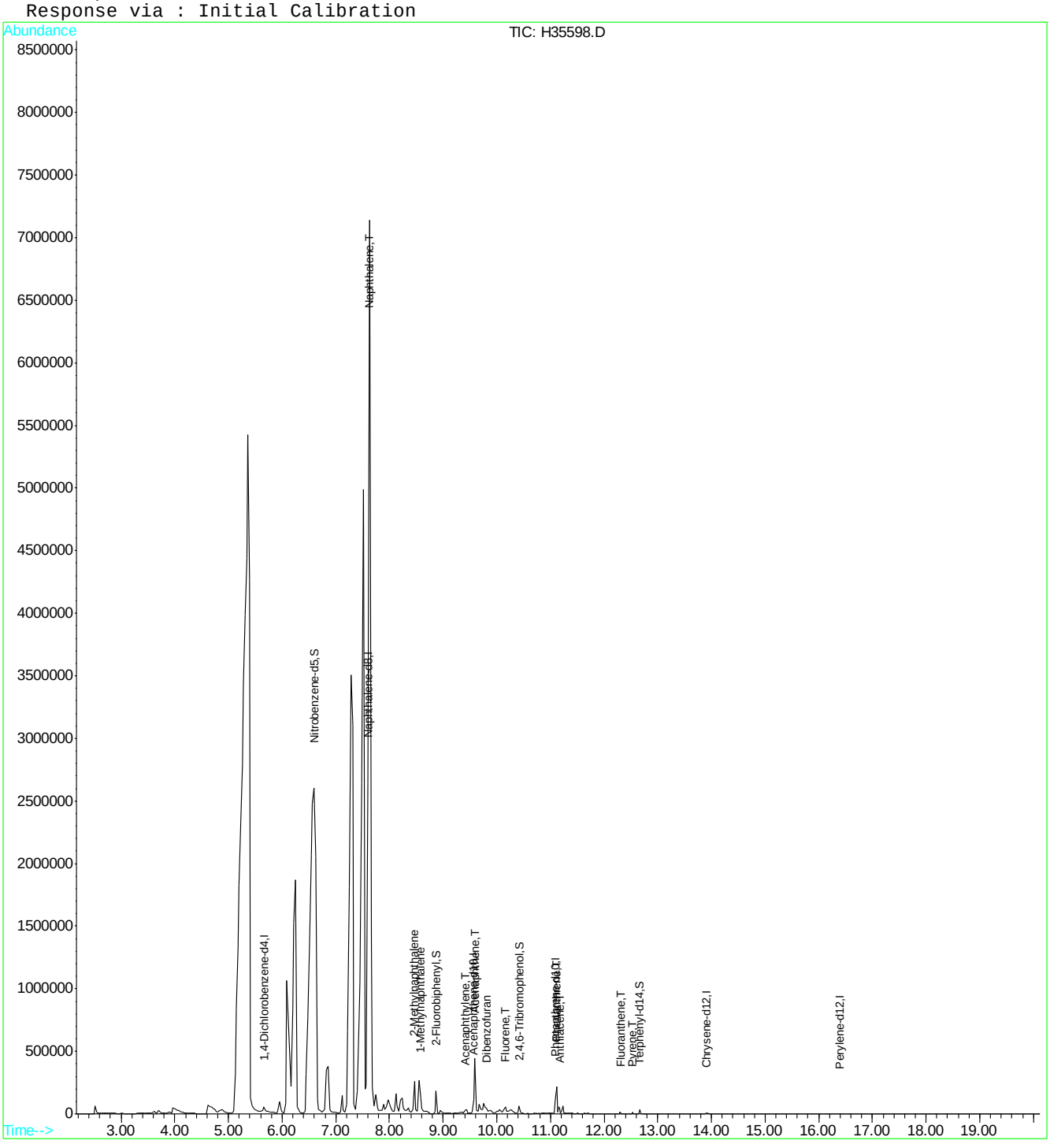
							Qvalue
6) Naphthalene	7.63	128	12518893	363.31	ppb		97
7) 2-Methylnaphthalene	8.46	142	279905m	8.46	ppb		
8) 1-Methylnaphthalene	8.58	142	130636	3.41	ppb	#	94
11) Acenaphthylene	9.41	152	47892	1.25	ppb	#	81
12) Acenaphthene	9.60	153	286387	8.27	ppb	#	72
13) Dibenzofuran	9.81	168	64864	2.02	ppb	#	1
14) Fluorene	10.16	166	21488m	1.31	ppb		
18) Phenanthrene	11.11	178	183117m	3.71	ppb		
19) Anthracene	11.17	178	48387m	0.85	ppb		
20) Fluoranthene	12.31	202	22580	1.01	ppb	#	88
22) Pyrene	12.53	202	16959	0.59	ppb		100

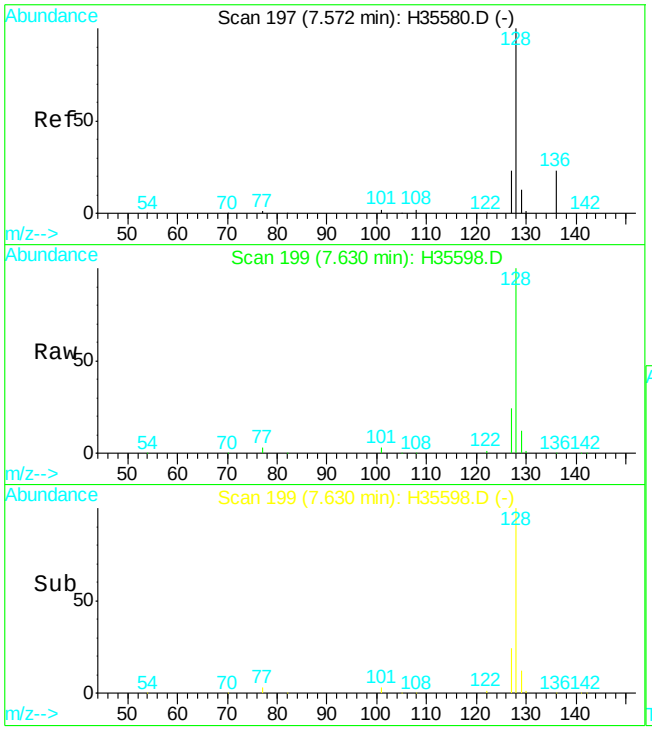
(#) = qualifier out of range (m) = manual integration
H35598.D H10239SP.M Mon Oct 26 13:42:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Initial Calibration

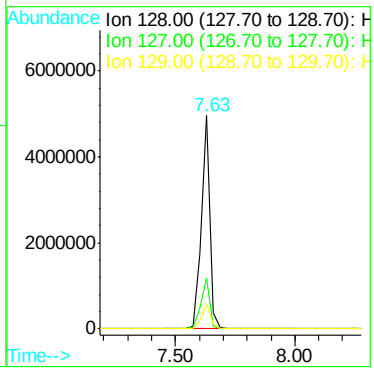


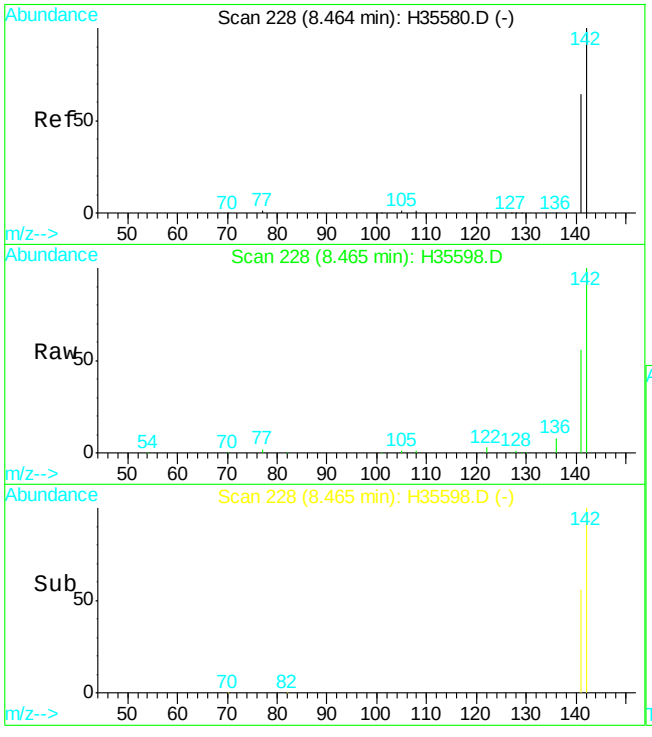


#6
Naphthalene
Concen: 363.31 ppb
RT: 7.63 min Scan# 199
Delta R.T. -0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:128 Resp:12518893

Ion	Ratio	Lower	Upper
128	100		
127	23.6	15.3	28.5
129	11.9	8.5	15.9

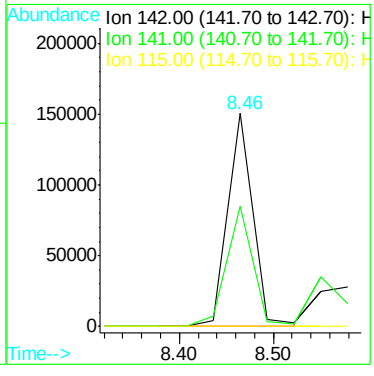




#7
2-Methylnaphthalene
Concen: 8.46 ppb m
RT: 8.46 min Scan# 228
Delta R.T. -0.06 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

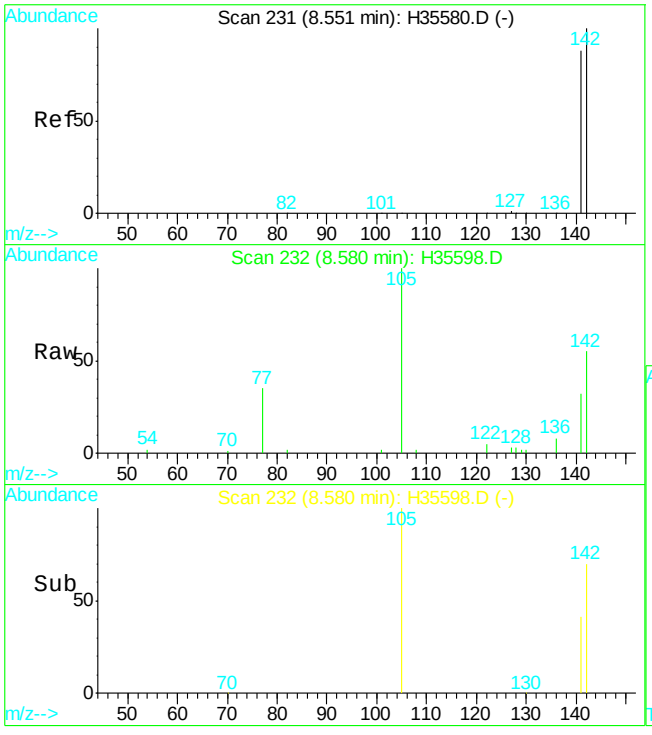
Tgt Ion:142 Resp: 279905

Ion	Ratio	Lower	Upper
142	100		
141	43.0	104.0	193.1#
115	0.0	0.0	0.0



8.1.38

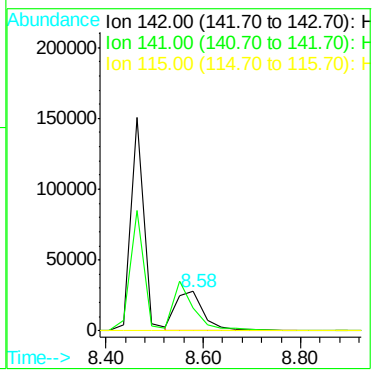
8

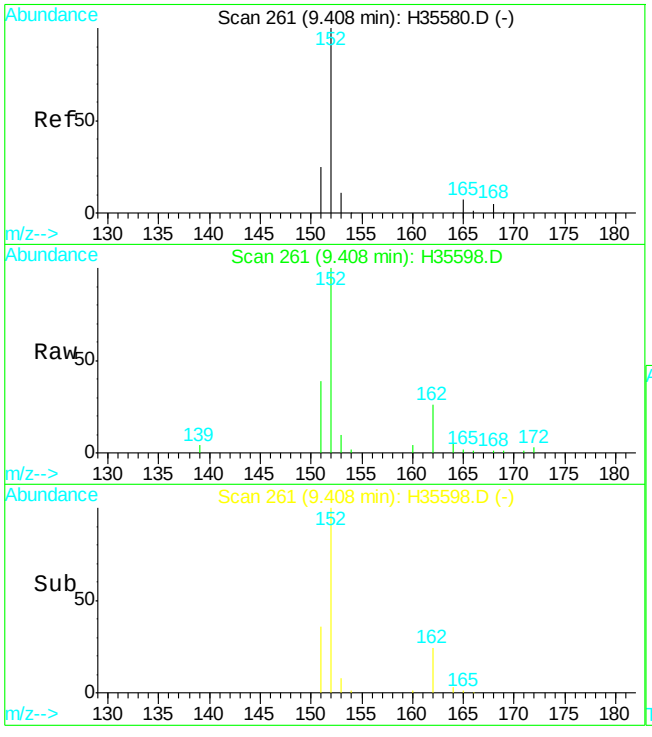


#8
1-Methylnaphthalene
Concen: 3.41 ppb
RT: 8.58 min Scan# 232
Delta R.T. -0.04 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:142 Resp: 130636

Ion	Ratio	Lower	Upper
142	100		
141	92.2	60.5	112.5
115	0.0	0.0	0.0

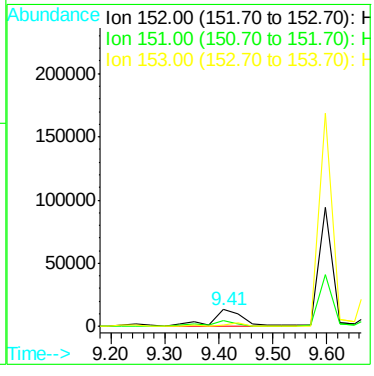


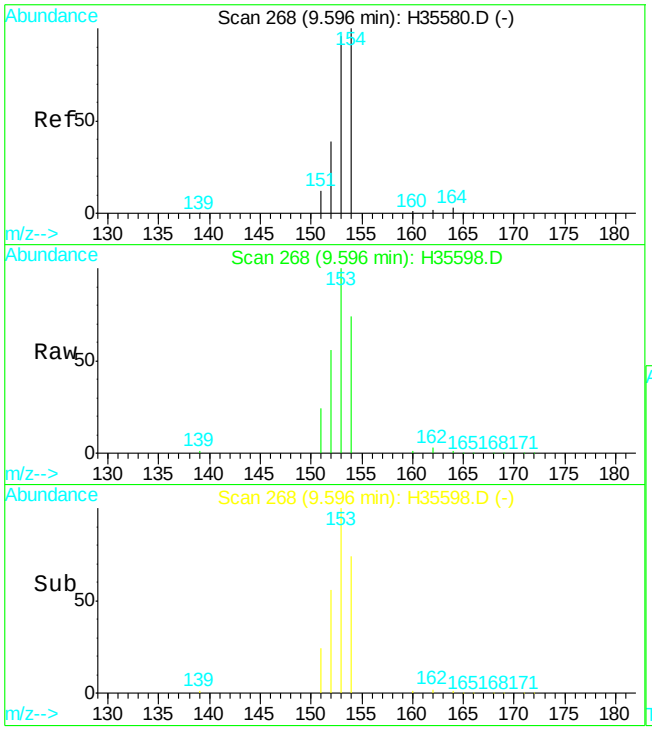


#11
Acenaphthylene
Concen: 1.25 ppb
RT: 9.41 min Scan# 261
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:152 Resp: 47892

Ion	Ratio	Lower	Upper
152	100		
151	37.2	17.8	33.0#
153	7.3	7.4	13.8#

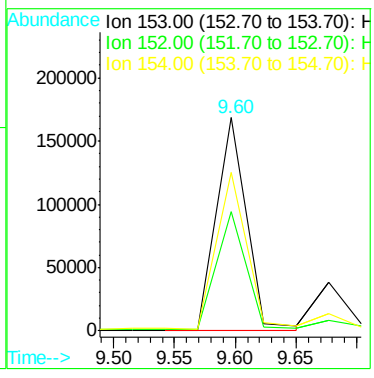


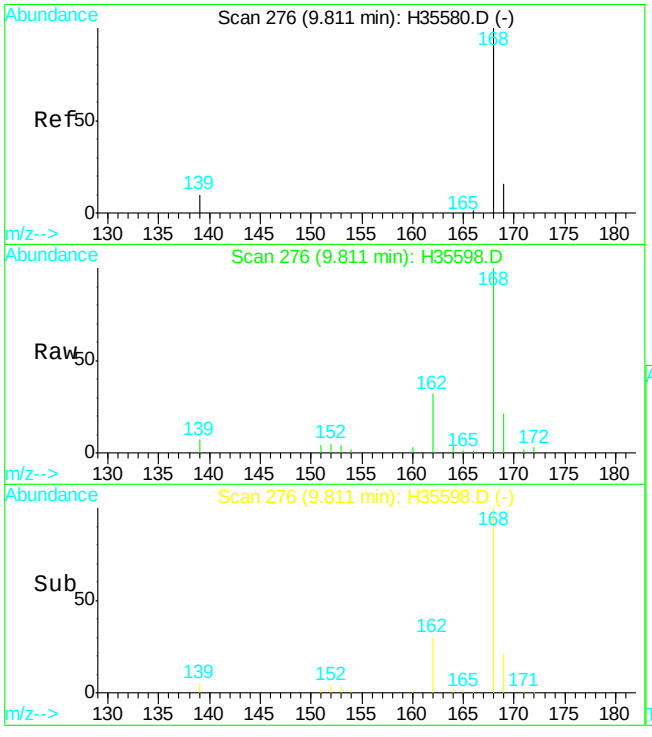


#12
Acenaphthene
Concen: 8.27 ppb
RT: 9.60 min Scan# 268
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:153 Resp: 286387

Ion	Ratio	Lower	Upper
153	100		
152	55.9	28.7	53.3#
154	73.6	72.9	135.5

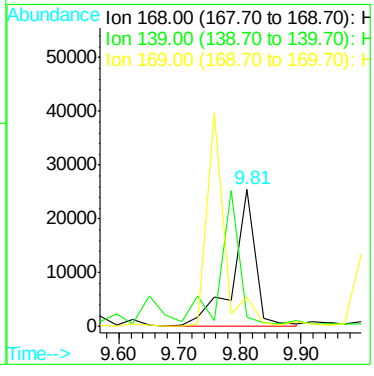


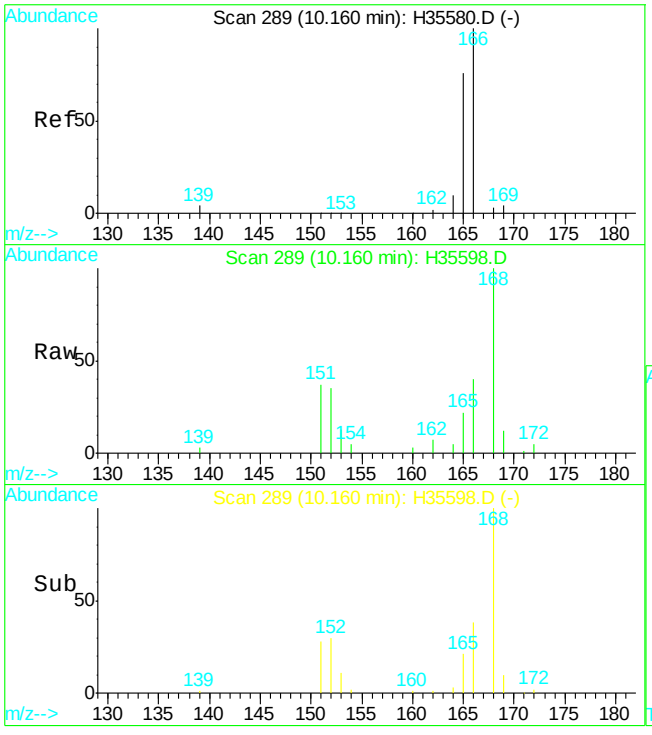


#13
Dibenzofuran
Concen: 2.02 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:168 Resp: 64864

Ion	Ratio	Lower	Upper
168	100		
139	84.3	33.7	62.5#
169	119.5	9.8	18.2#

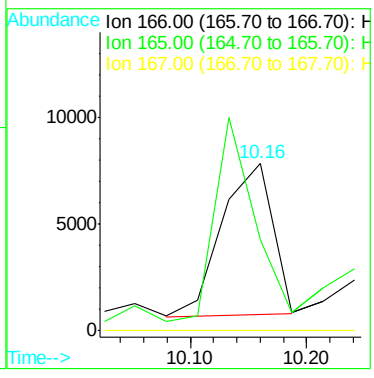


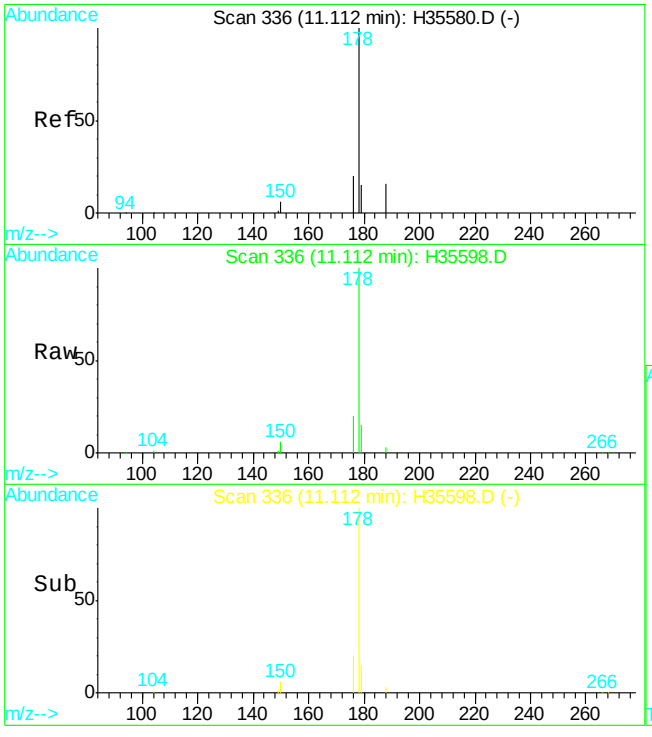


#14
Fluorene
Concen: 1.31 ppb m
RT: 10.16 min Scan# 289
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:166 Resp: 21488

Ion	Ratio	Lower	Upper
166	100		
165	54.1	53.1	98.7
167	0.0	0.0	0.0

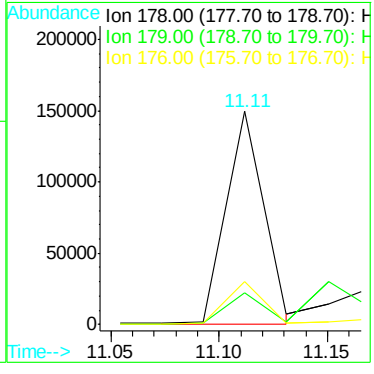


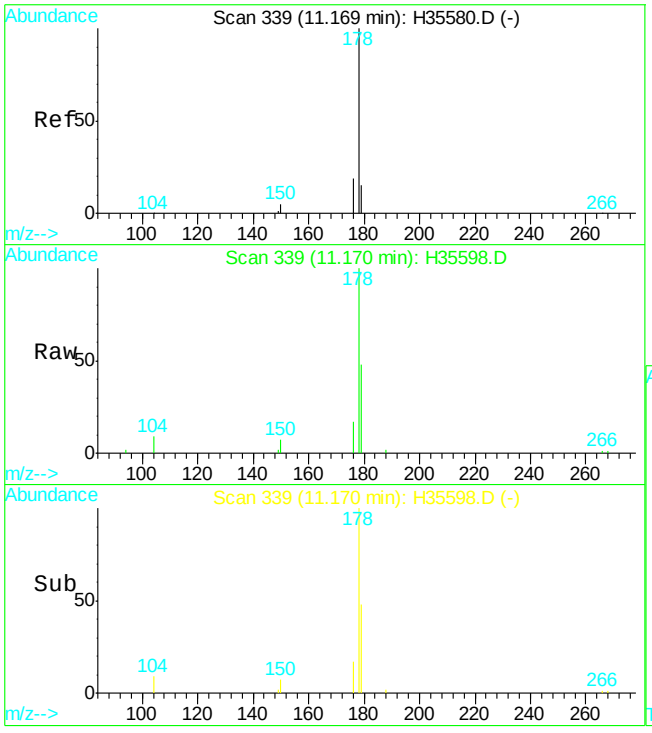


#18
Phenanthrene
Concen: 3.71 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:178 Resp: 183117

Ion	Ratio	Lower	Upper
178	100		
179	15.0	10.6	19.6
176	20.2	13.7	25.5

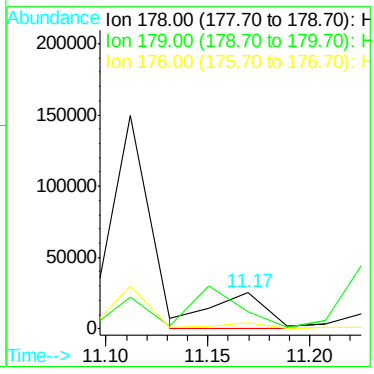


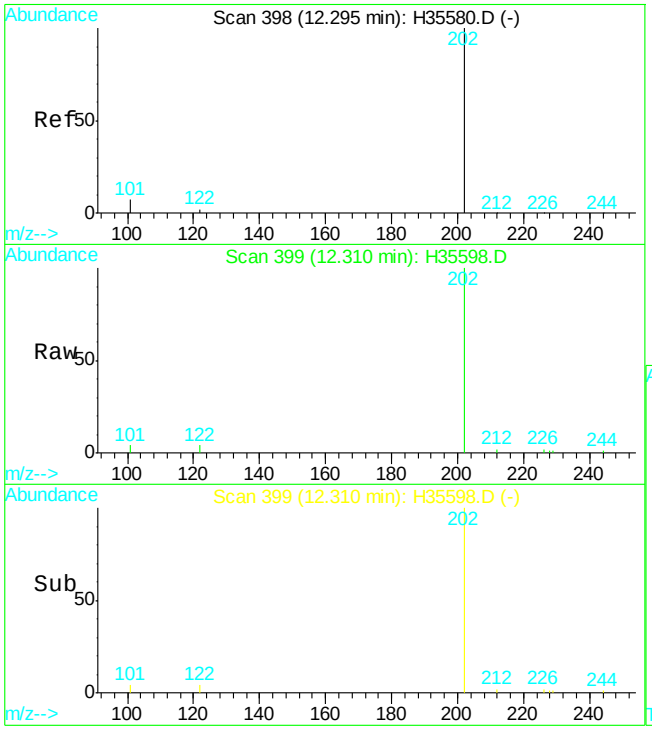


#19
Anthracene
Concen: 0.85 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:178 Resp: 48387

Ion	Ratio	Lower	Upper
178	100		
179	48.5	10.6	19.6#
176	16.5	13.3	24.7

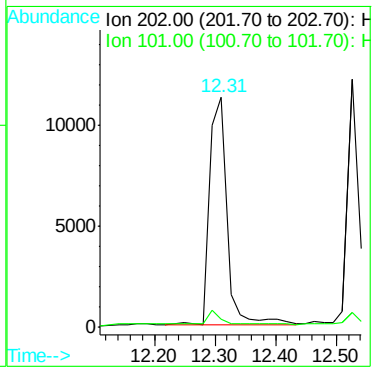


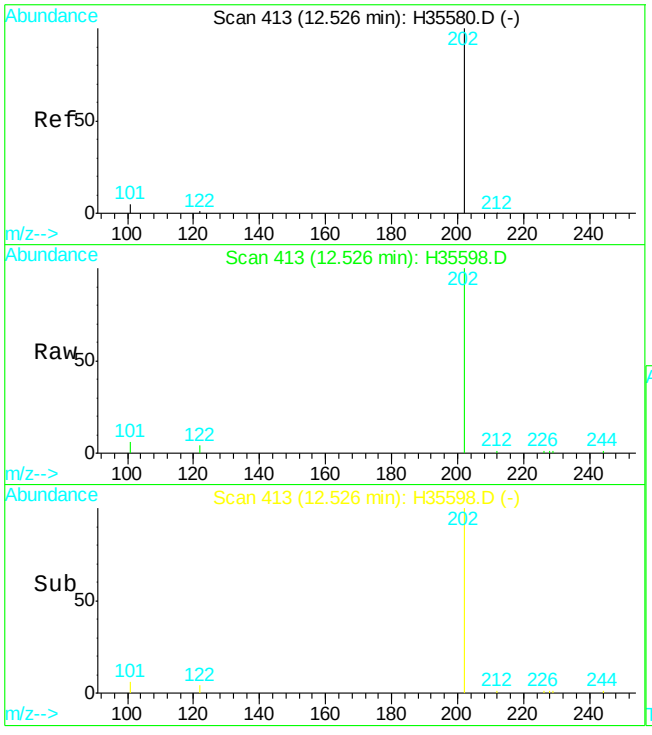


#20
Fluoranthene
Concen: 1.01 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:202 Resp: 22580

Ion	Ratio	Lower	Upper
202	100		
101	2.4	4.6	8.6#

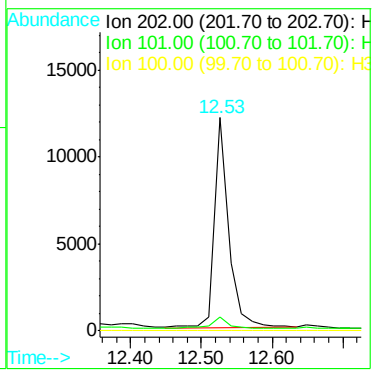




#22
Pyrene
Concen: 0.59 ppb
RT: 12.53 min Scan# 413
Delta R.T. 0.00 min
Lab File: H35598.D
Acq: 23 Oct 2009 7:54 pm

Tgt Ion:202 Resp: 16959

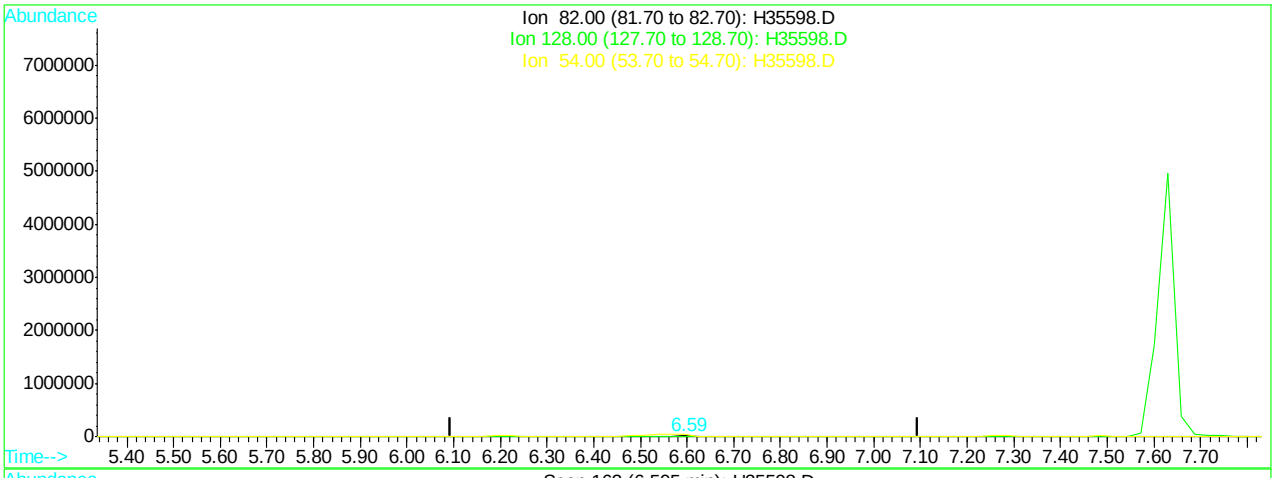
Ion	Ratio	Lower	Upper
202	100		
101	5.0	3.5	6.5
100	0.0	0.0	0.0

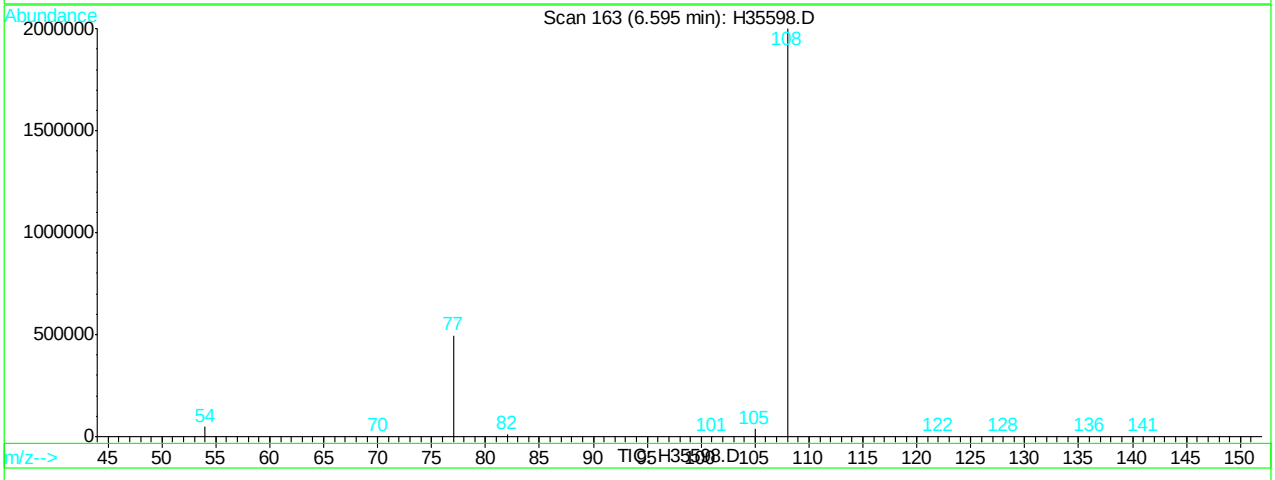


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.59min 2.20ppb m

response 7460

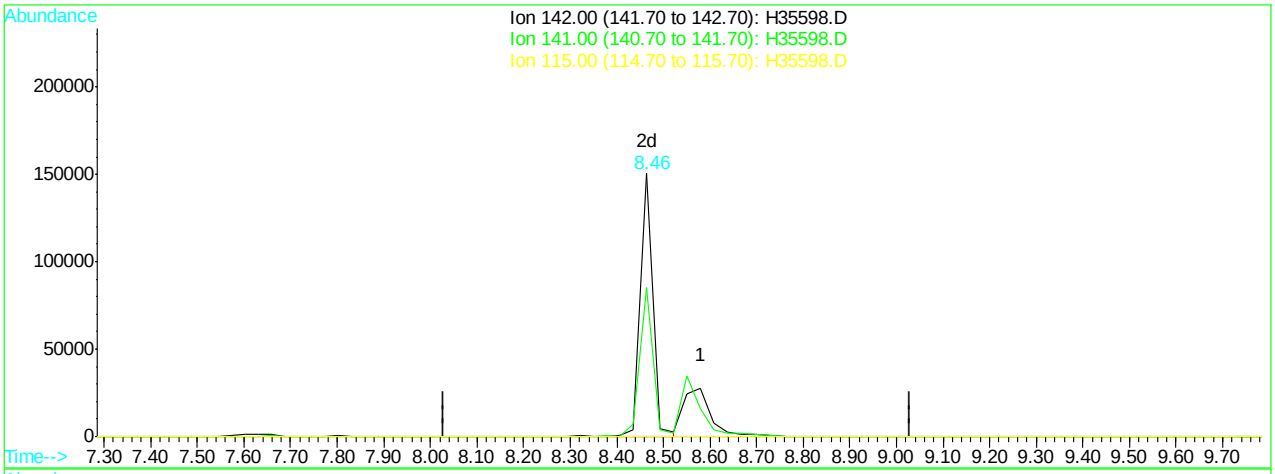
Ion	Exp%	Act%
82.00	100	100
128.00	7.60	7.55
54.00	375.50	375.49
0.00	0.00	0.00

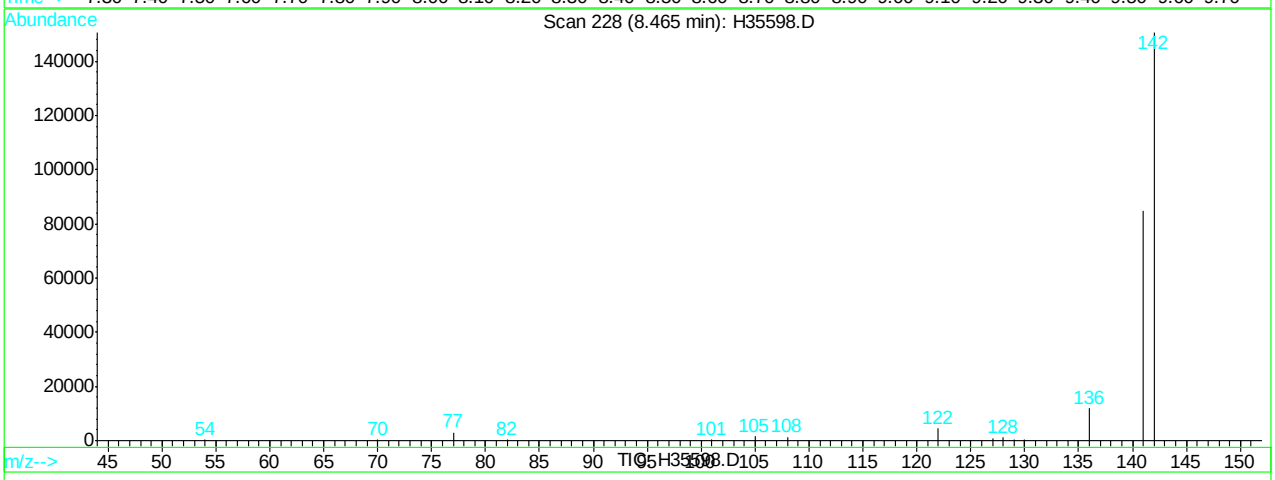
H35598.D H10239SP.M Mon Oct 26 13:42:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 8.46ppb m

response 279905

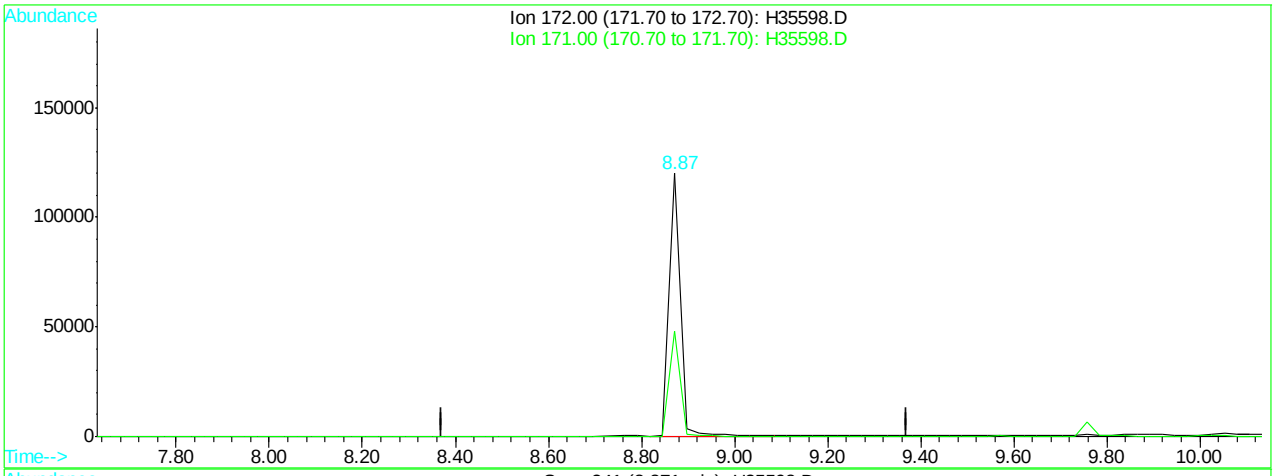
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	43.04#
115.00	0.00	0.00
0.00	0.00	0.00

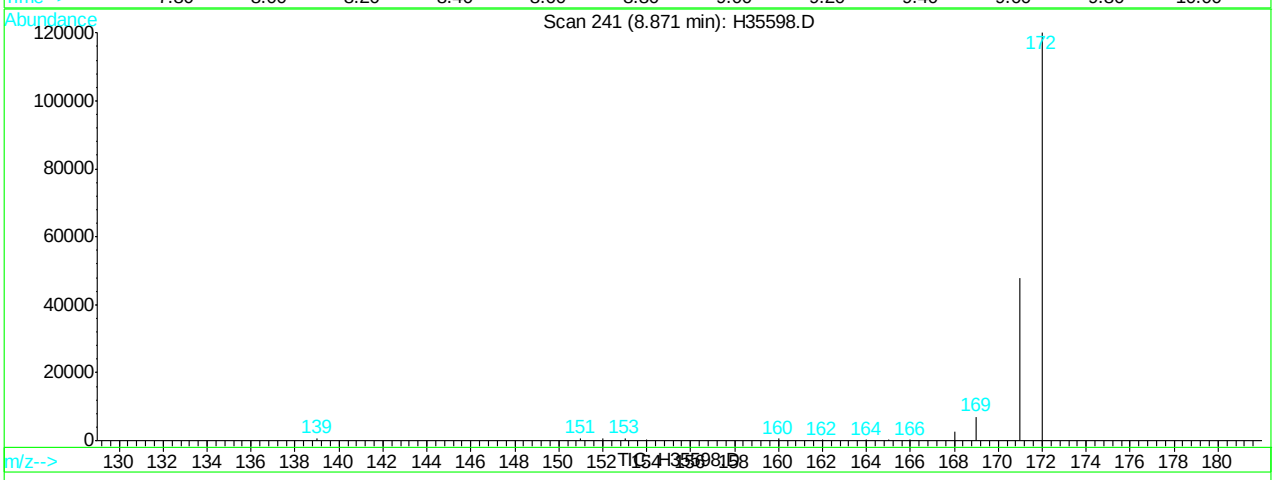
H35598.D H10239SP.M Mon Oct 26 13:42:42 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(10) 2-Fluorobiphenyl (S)

8.87min 6.11ppb m

response 209359

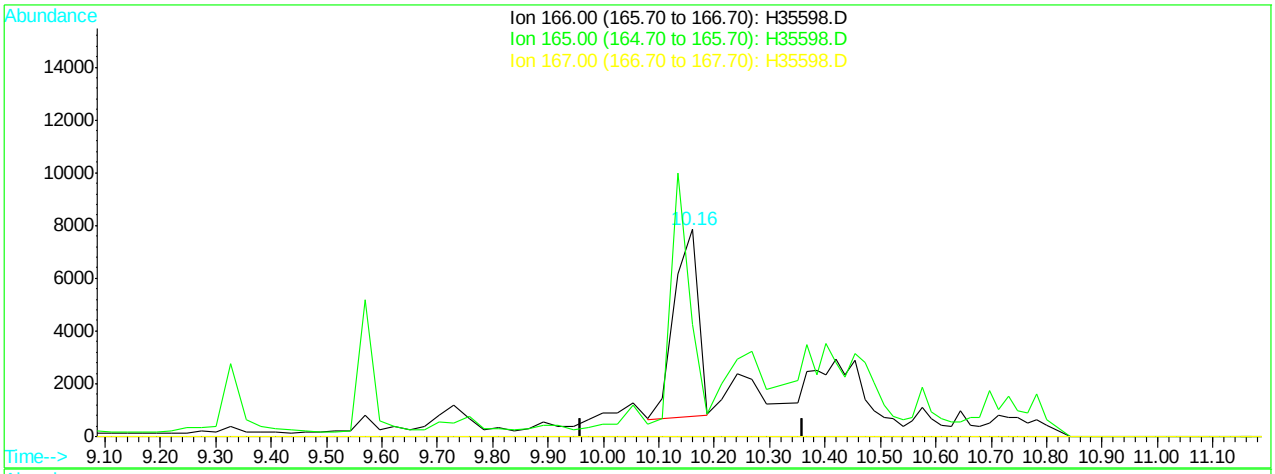
Ion	Exp%	Act%
172.00	100	100
171.00	27.30	39.92#
0.00	0.00	0.00
0.00	0.00	0.00

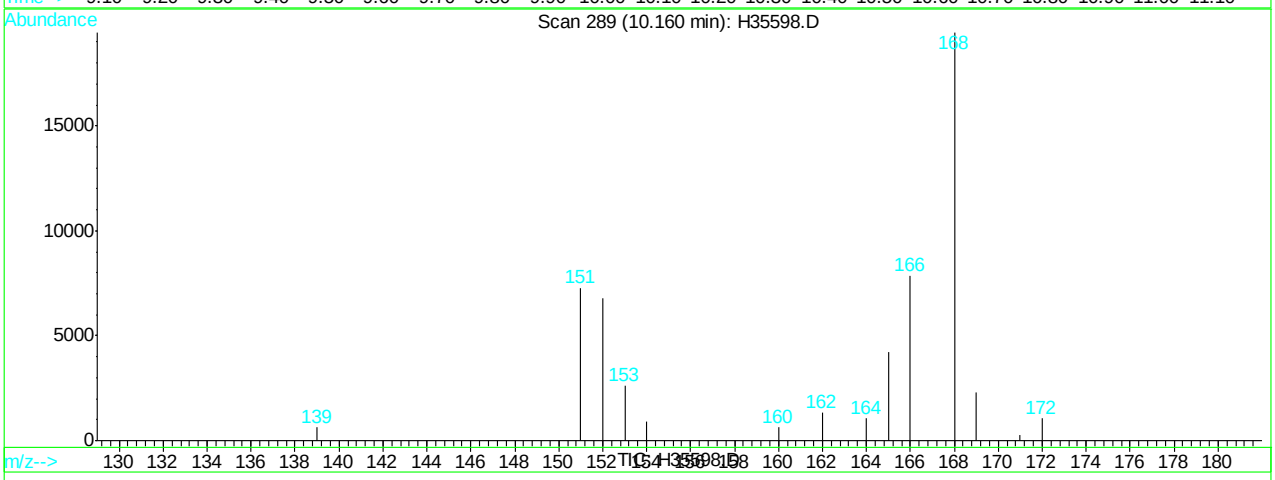
H35598.D H10239SP.M Mon Oct 26 13:42:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.16min 1.31ppb m

response 21488

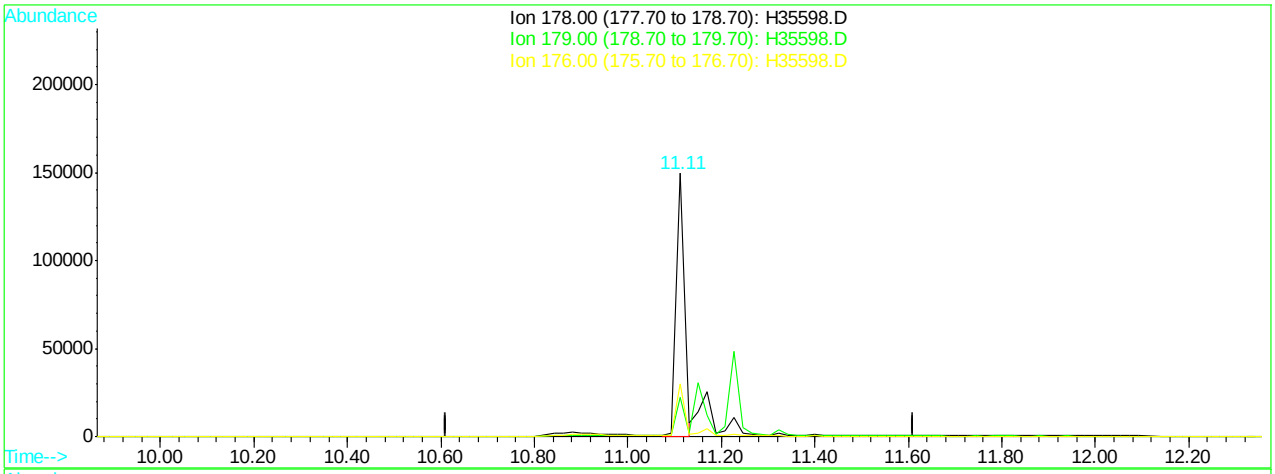
Ion	Exp%	Act%
166.00	100	100
165.00	75.90	54.06
167.00	0.00	0.00
0.00	0.00	0.00

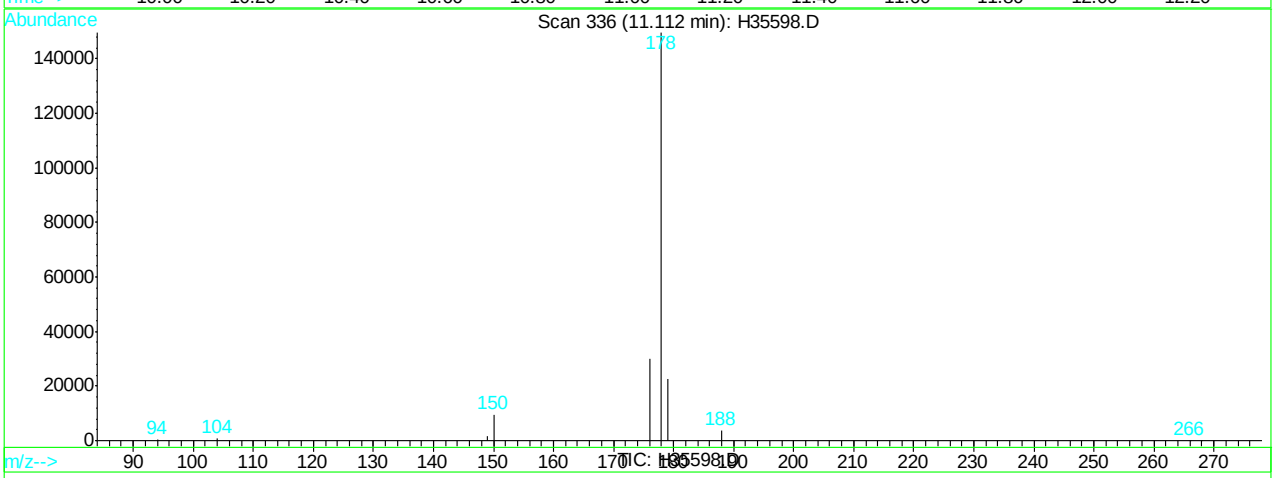
H35598.D H10239SP.M Mon Oct 26 13:42:50 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 3.71ppb m

response 183117

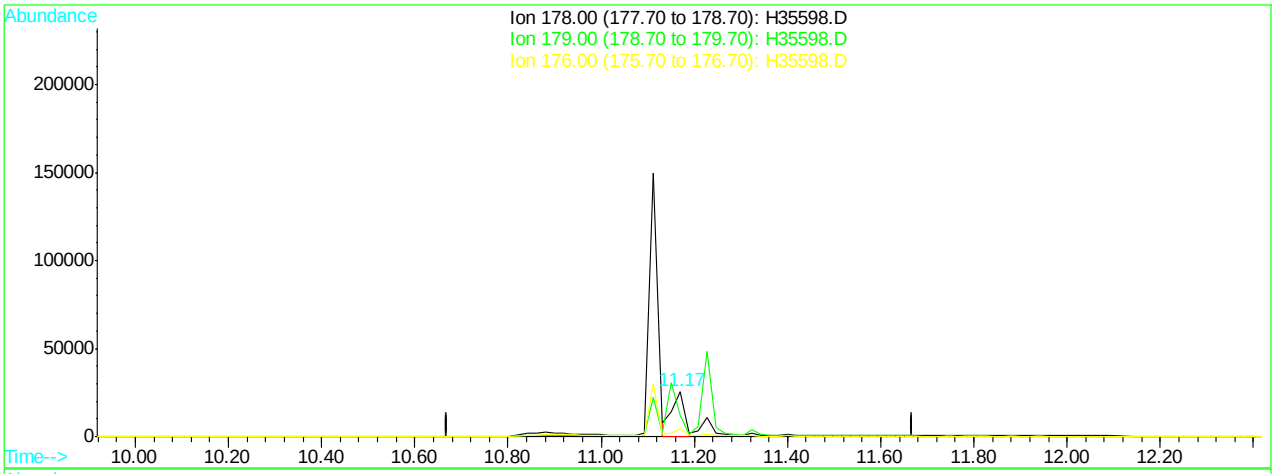
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	15.00
176.00	19.60	20.20
0.00	0.00	0.00

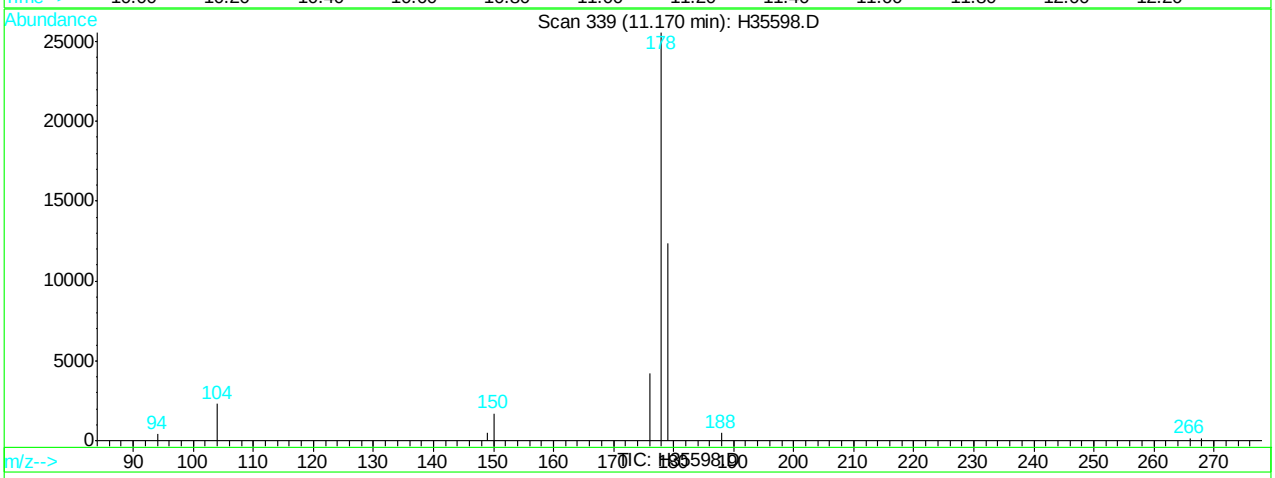
H35598.D H10239SP.M Mon Oct 26 13:42:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35598.D Vial: 20
Acq On : 23 Oct 2009 7:54 pm Operator: sheilac
Sample : t39646-5,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 13:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:39:55 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.85ppb m

response 48387

Ion	Exp%	Act%
178.00	100	100
179.00	15.10	48.47#
176.00	19.00	16.54
0.00	0.00	0.00

H35598.D H10239SP.M Mon Oct 26 13:42:58 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:47:18 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	79748	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	63825	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	60715	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	85179	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	13657	4.00	ppb	0.00
26) Perylene-d12	16.40	264	4104	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	36428	15.58	ppb	-0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 311.60%#			
10) 2-Fluorobiphenyl	8.87	172	387920	11.56	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 231.20%#			
16) 2,4,6-Tribromophenol	10.40	330	92320	37.58	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 375.80%#			
23) Terphenyl-d14	12.66	244	66389	16.45	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 329.00%#			

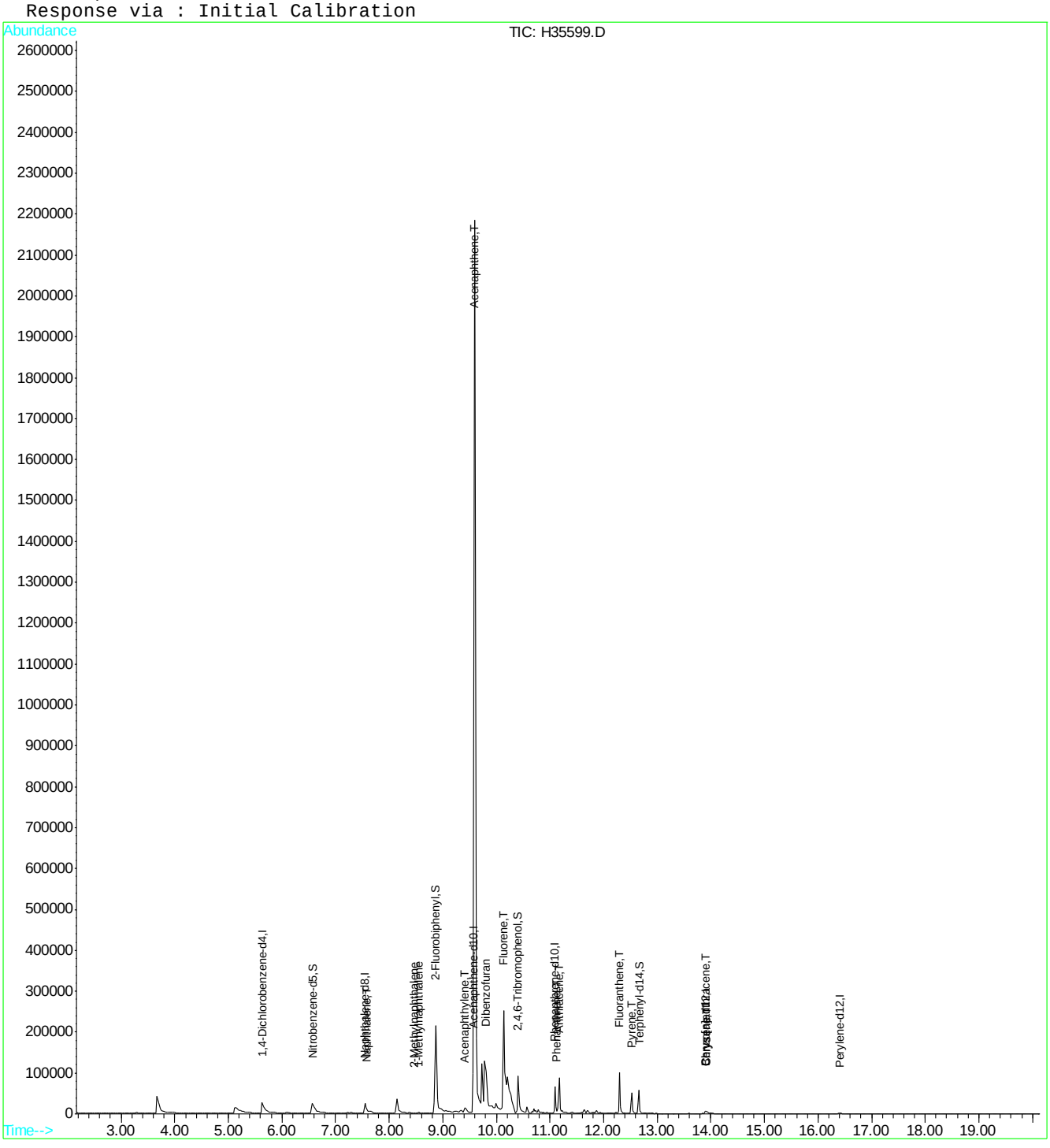
Target Compounds							Qvalue
6) Naphthalene	7.57	128	7149	0.33	ppb		92
7) 2-Methylnaphthalene	8.46	142	335m	0.24	ppb		
8) 1-Methylnaphthalene	8.55	142	2877m	0.12	ppb		
11) Acenaphthylene	9.41	152	25670	0.72	ppb	#	79
12) Acenaphthene	9.59	153	1491855	44.04	ppb	#	70
13) Dibenzofuran	9.81	168	238437	7.58	ppb		97
14) Fluorene	10.13	166	213586	13.30	ppb	#	9
18) Phenanthrene	11.11	178	9227m	0.25	ppb		
19) Anthracene	11.17	178	95850m	2.22	ppb		
20) Fluoranthene	12.29	202	114581	5.54	ppb	#	92
22) Pyrene	12.52	202	79067m	3.52	ppb		
24) Benzo[a]anthracene	13.90	228	677m	0.22	ppb		
25) Chrysene	13.92	228	474m	0.08	ppb		

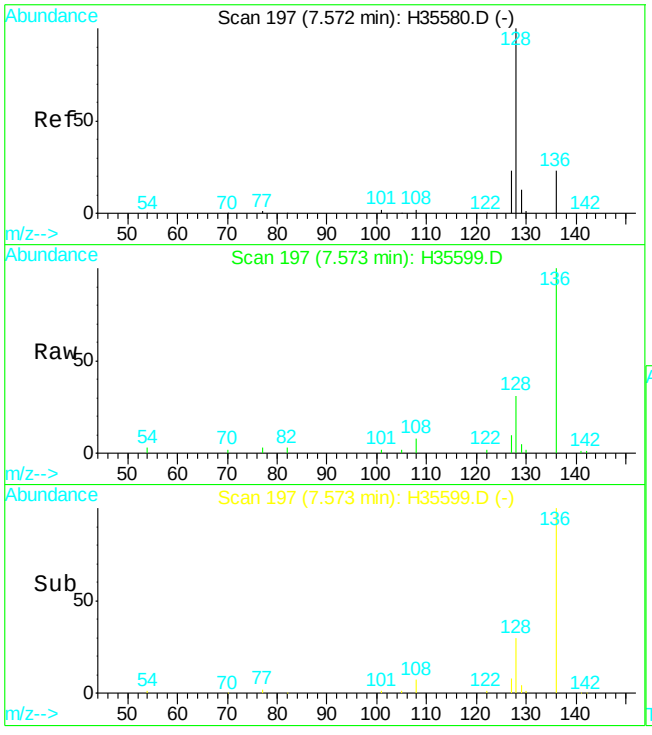
(#) = qualifier out of range (m) = manual integration
H35599.D H10239SP.M Mon Oct 26 19:10:04 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

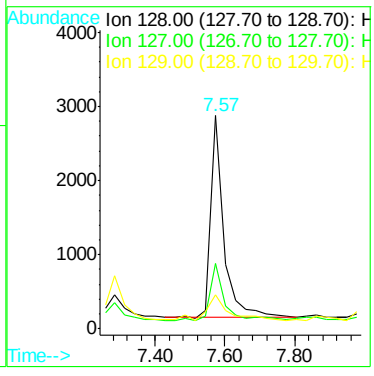


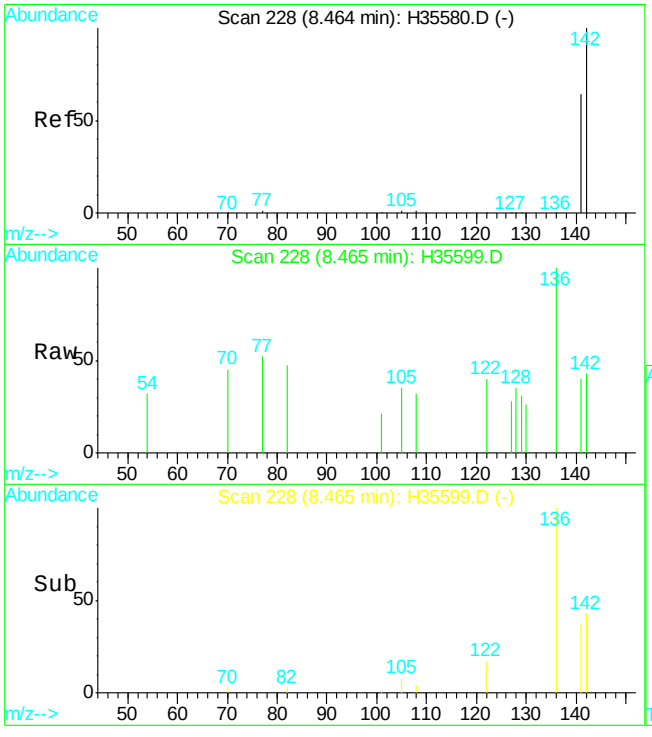


#6
Naphthalene
Concen: 0.33 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.06 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:128 Resp: 7149

Ion	Ratio	Lower	Upper
128	100		
127	27.5	15.3	28.5
129	12.4	8.5	15.9

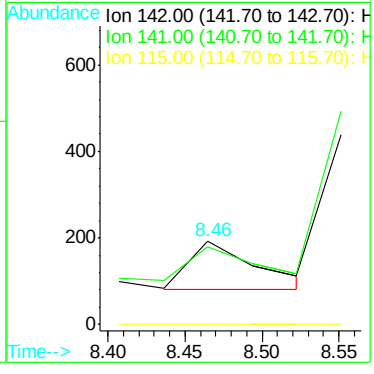


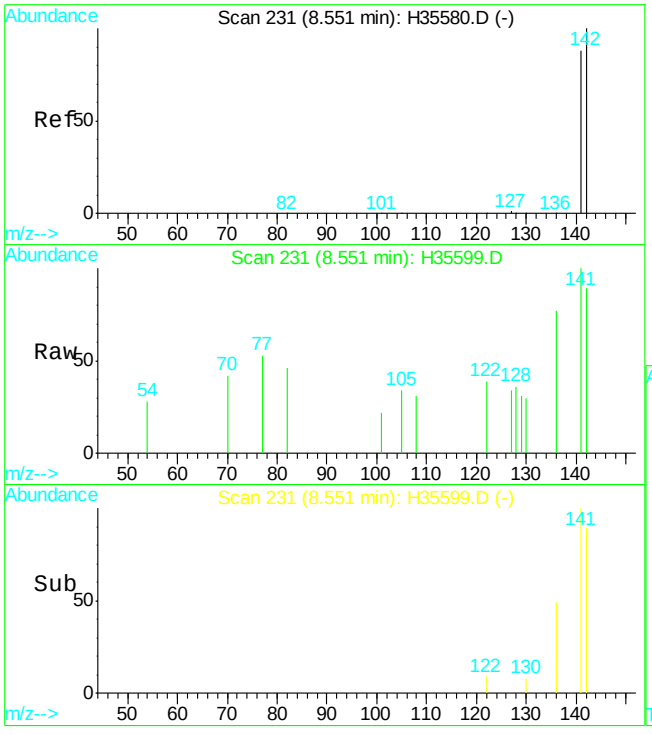


#7
2-Methylnaphthalene
Concen: 0.24 ppb m
RT: 8.46 min Scan# 228
Delta R.T. -0.06 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:142 Resp: 335

Ion	Ratio	Lower	Upper
142	100		
141	1098.8	104.0	193.1#
115	0.0	0.0	0.0

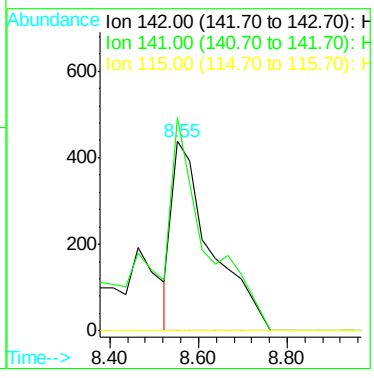


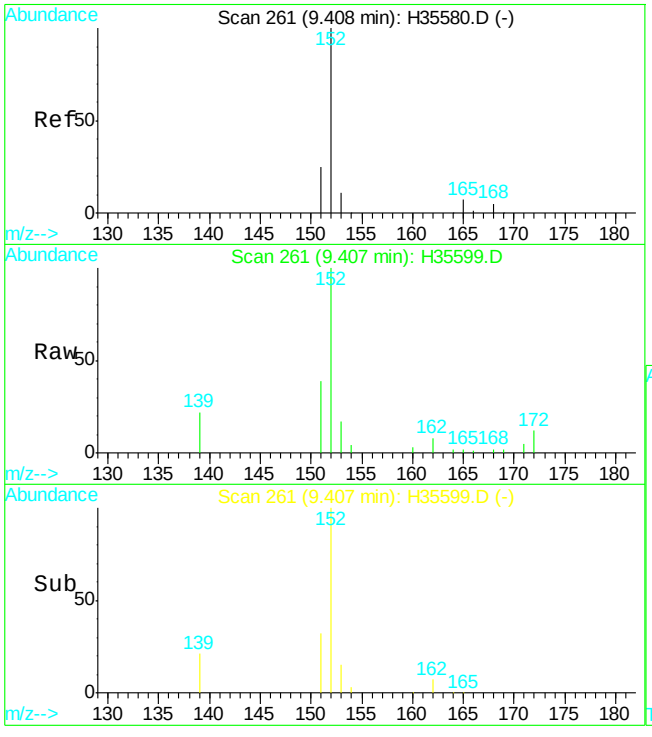


#8
1-Methylnaphthalene
Concen: 0.12 ppb m
RT: 8.55 min Scan# 231
Delta R.T. -0.07 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:142 Resp: 2877

Ion	Ratio	Lower	Upper
142	100		
141	127.9	60.5	112.5#
115	0.0	0.0	0.0

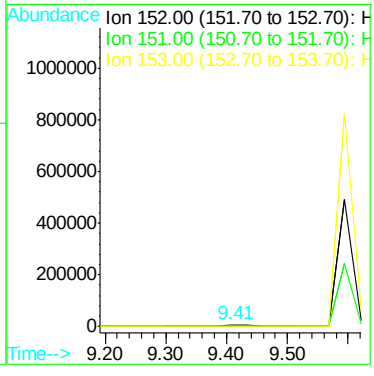


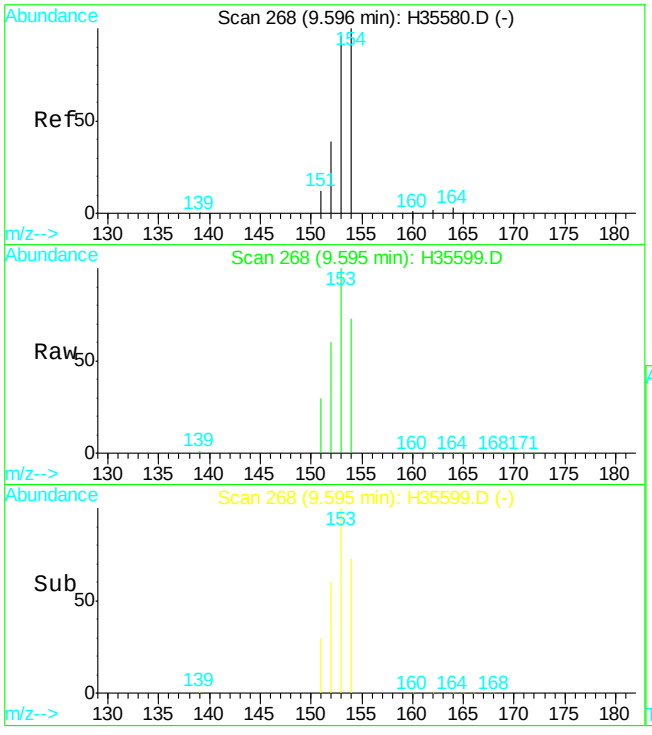


#11
Acenaphthylene
Concen: 0.72 ppb
RT: 9.41 min Scan# 261
Delta R.T. -0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:152 Resp: 25670

Ion	Ratio	Lower	Upper
152	100		
151	37.9	17.8	33.0#
153	14.7	7.4	13.8#

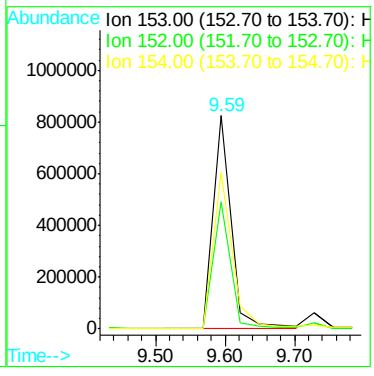


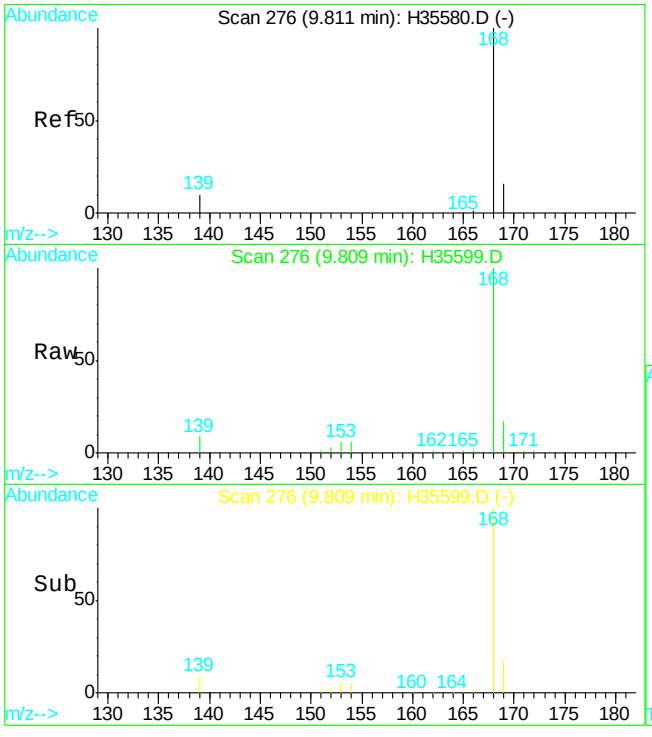


#12
Acenaphthene
Concen: 44.04 ppb
RT: 9.59 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:153 Resp: 1491855

Ion	Ratio	Lower	Upper
153	100		
152	59.6	28.7	53.3#
154	73.3	72.9	135.5

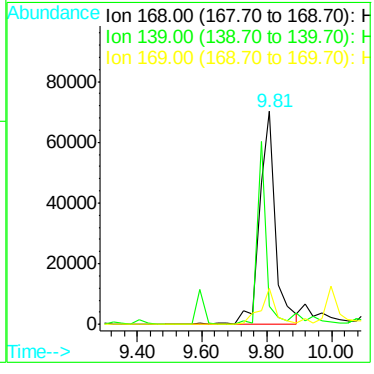


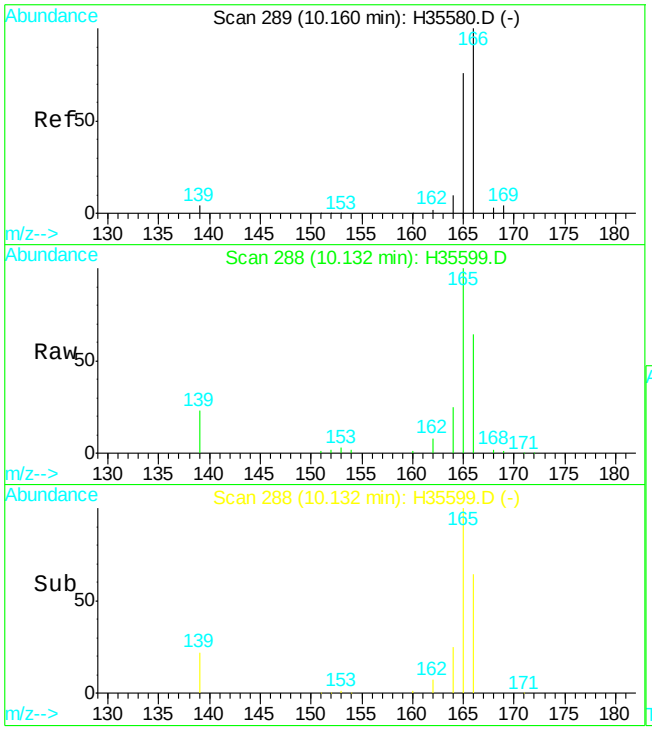


#13
Dibenzofuran
Concen: 7.58 ppb
RT: 9.81 min Scan# 276
Delta R.T. -0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:168 Resp: 238437

Ion	Ratio	Lower	Upper
168	100		
139	47.4	33.7	62.5
169	17.1	9.8	18.2

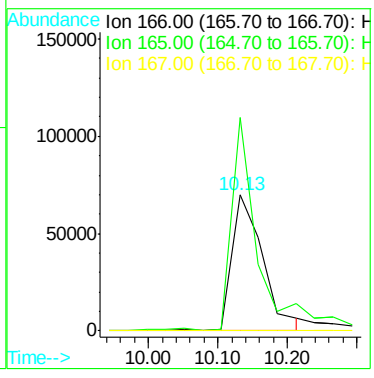


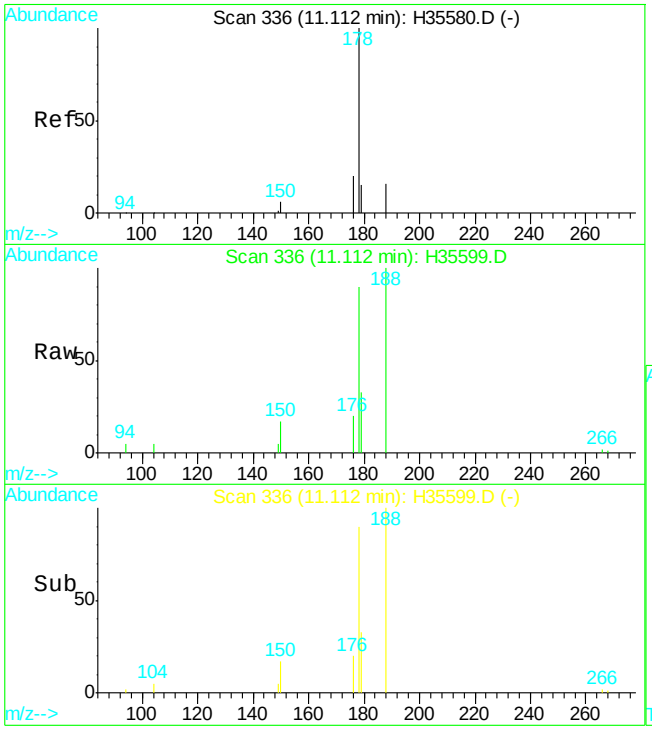


#14
Fluorene
Concen: 13.30 ppb
RT: 10.13 min Scan# 288
Delta R.T. -0.03 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:166 Resp: 213586

Ion	Ratio	Lower	Upper
166	100		
165	154.3	53.1	98.7#
167	0.0	0.0	0.0

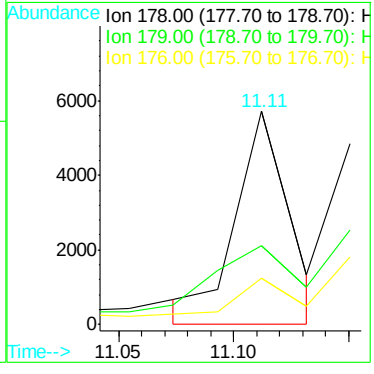


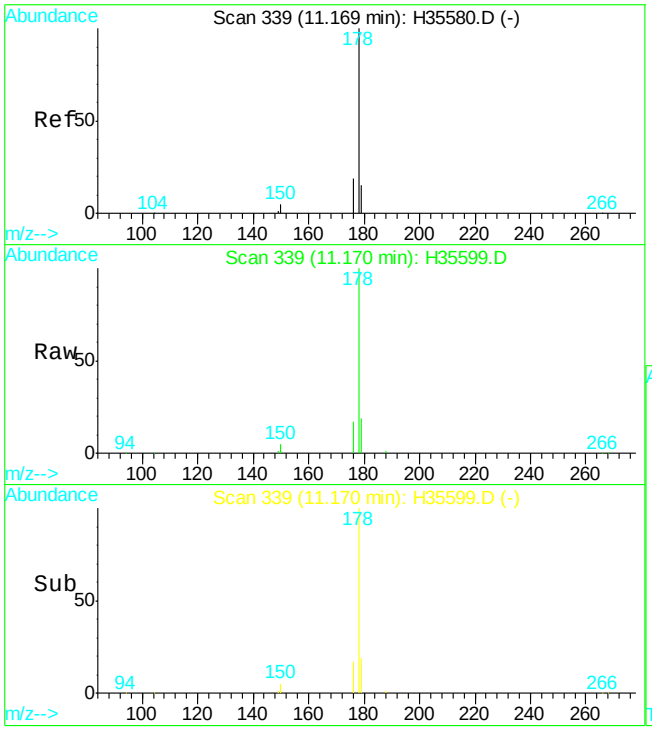


#18
Phenanthrene
Concen: 0.25 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:178 Resp: 9227

Ion	Ratio	Lower	Upper
178	100		
179	36.8	10.6	19.6#
176	21.7	13.7	25.5

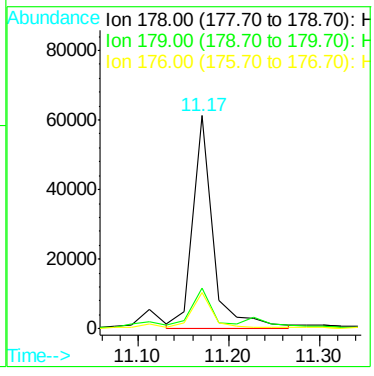


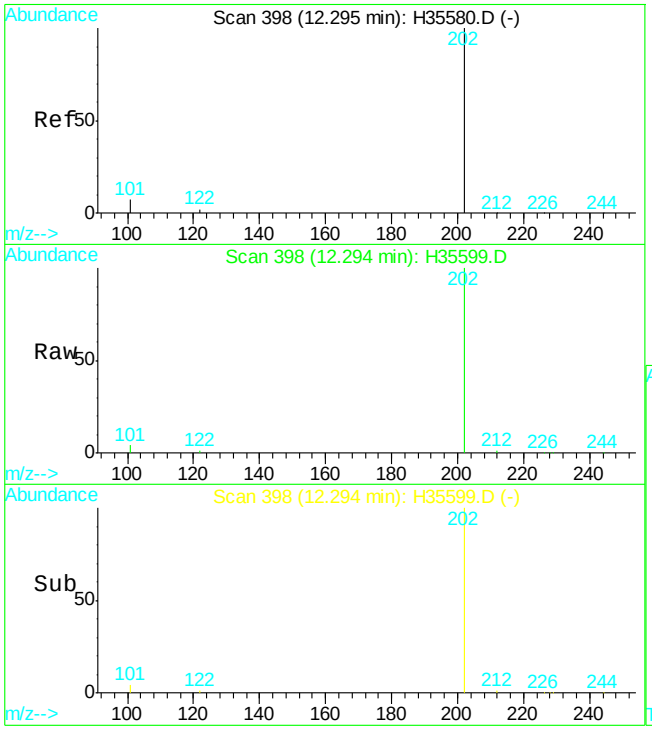


#19
Anthracene
Concen: 2.22 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:178 Resp: 95850

Ion	Ratio	Lower	Upper
178	100		
179	19.2	10.6	19.6
176	16.8	13.3	24.7

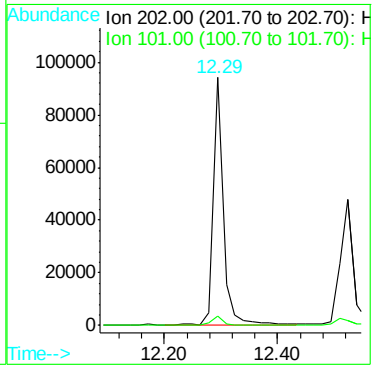


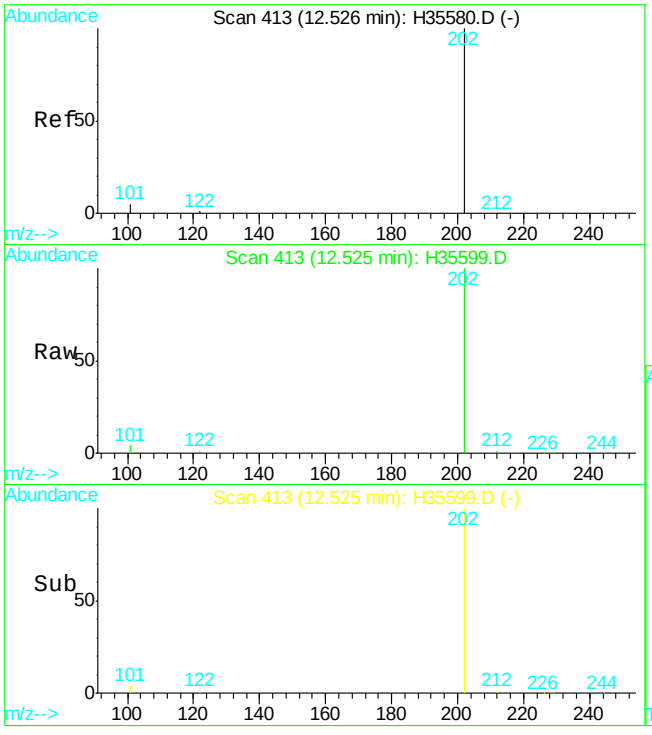


#20
Fluoranthene
Concen: 5.54 ppb
RT: 12.29 min Scan# 398
Delta R.T. 0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:202 Resp: 114581

Ion	Ratio	Lower	Upper
202	100		
101	3.7	4.6	8.6#

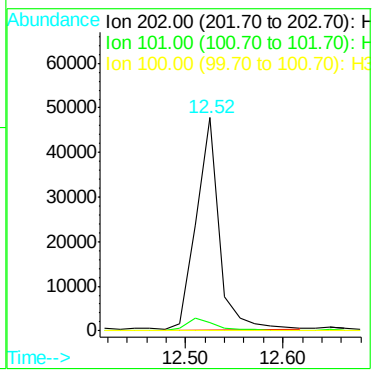


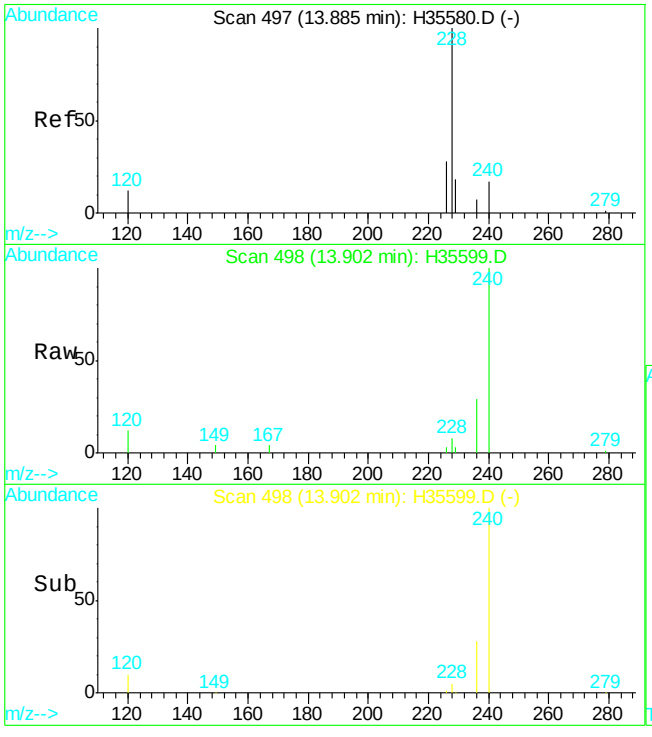


#22
Pyrene
Concen: 3.52 ppb m
RT: 12.52 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:202 Resp: 79067

Ion	Ratio	Lower	Upper
202	100		
101	3.8	3.5	6.5
100	0.0	0.0	0.0

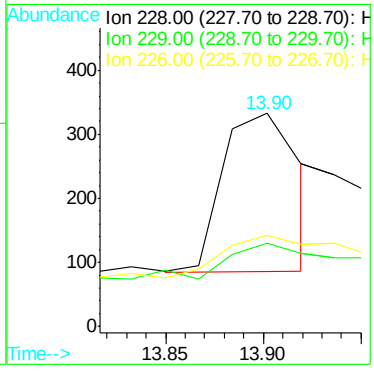




#24
Benzo[a]anthracene
Concen: 0.22 ppb m
RT: 13.90 min Scan# 498
Delta R.T. 0.02 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

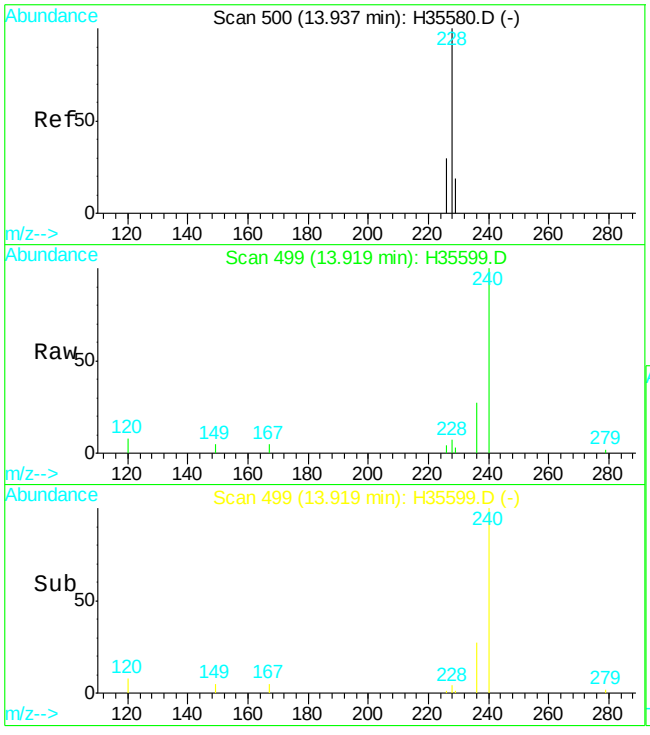
Tgt Ion:228 Resp: 677

Ion	Ratio	Lower	Upper
228	100		
229	39.0	14.4	26.7#
226	42.9	21.3	39.6#



8.1.39

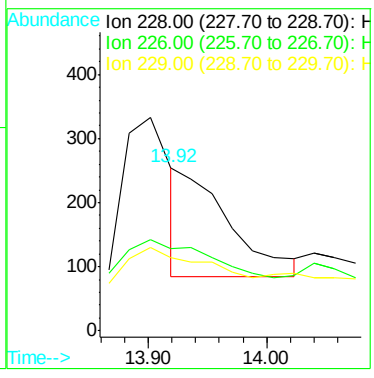
8



#25
Chrysene
Concen: 0.08 ppb m
RT: 13.92 min Scan# 499
Delta R.T. -0.02 min
Lab File: H35599.D
Acq: 23 Oct 2009 8:23 pm

Tgt Ion:228 Resp: 474

Ion	Ratio	Lower	Upper
228	100		
226	50.6	21.8	40.4#
229	45.1	14.8	27.6#



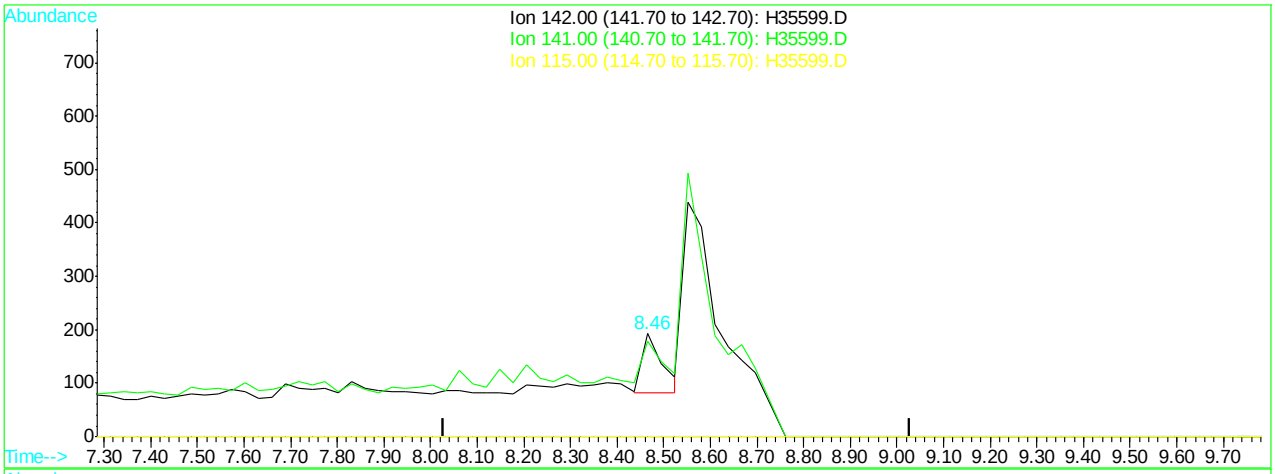
8.1.39

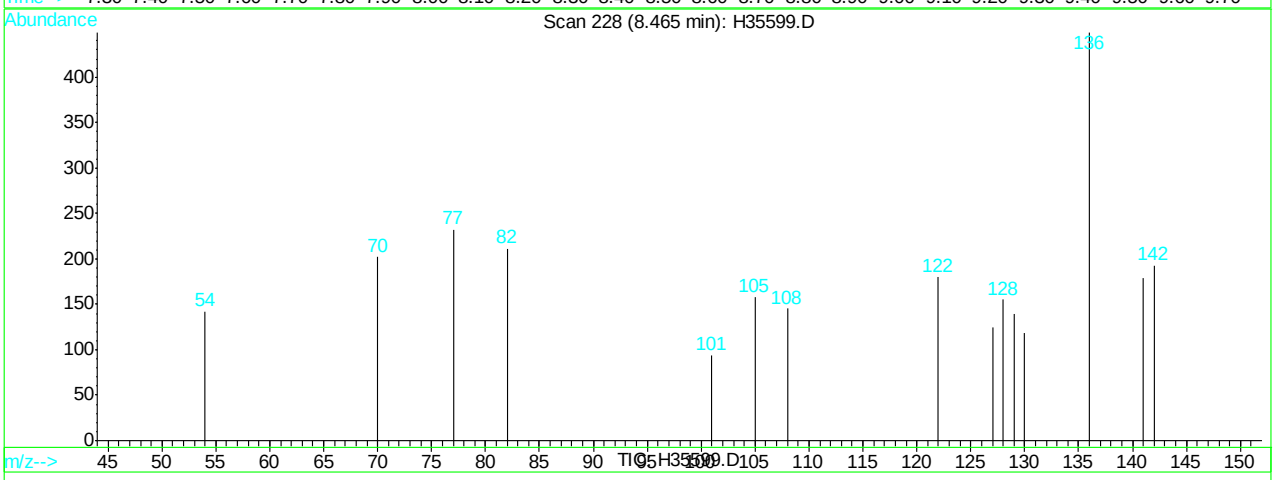
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.24ppb m

response 335

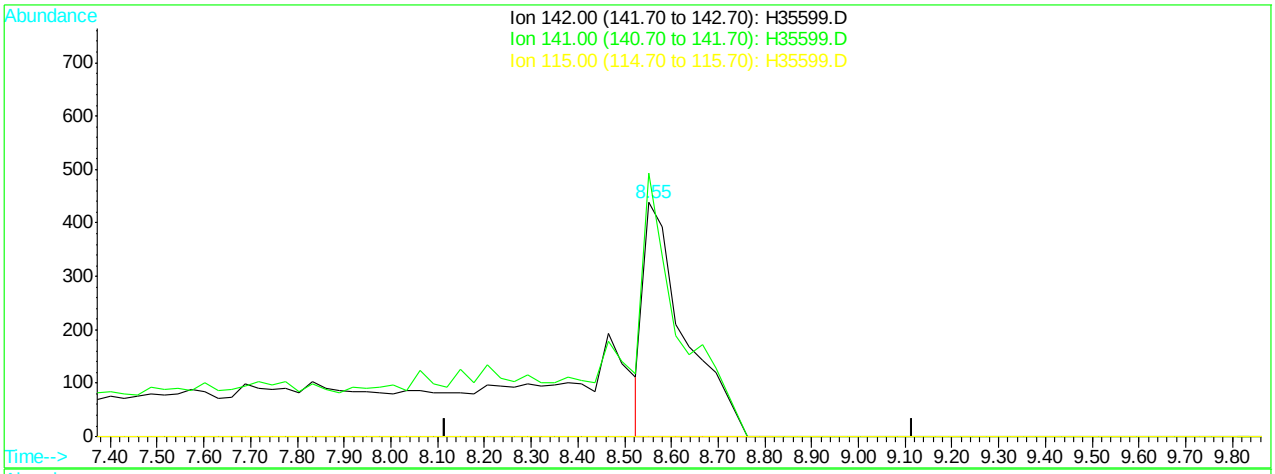
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	1098.81#
115.00	0.00	0.00
0.00	0.00	0.00

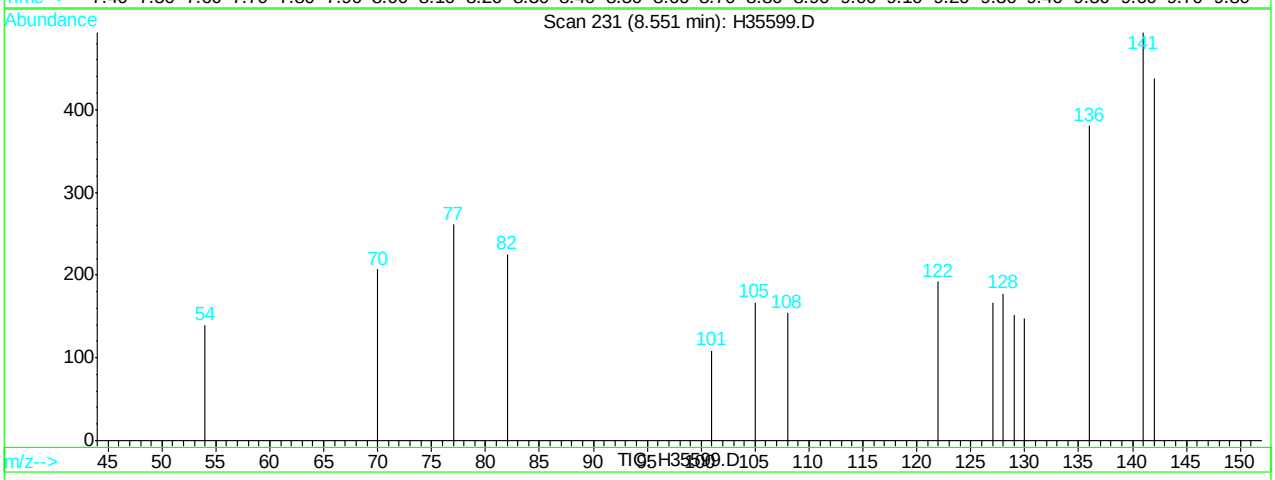
H35599.D H10239SP.M Mon Oct 26 19:10:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 0.12ppb m

response 2877

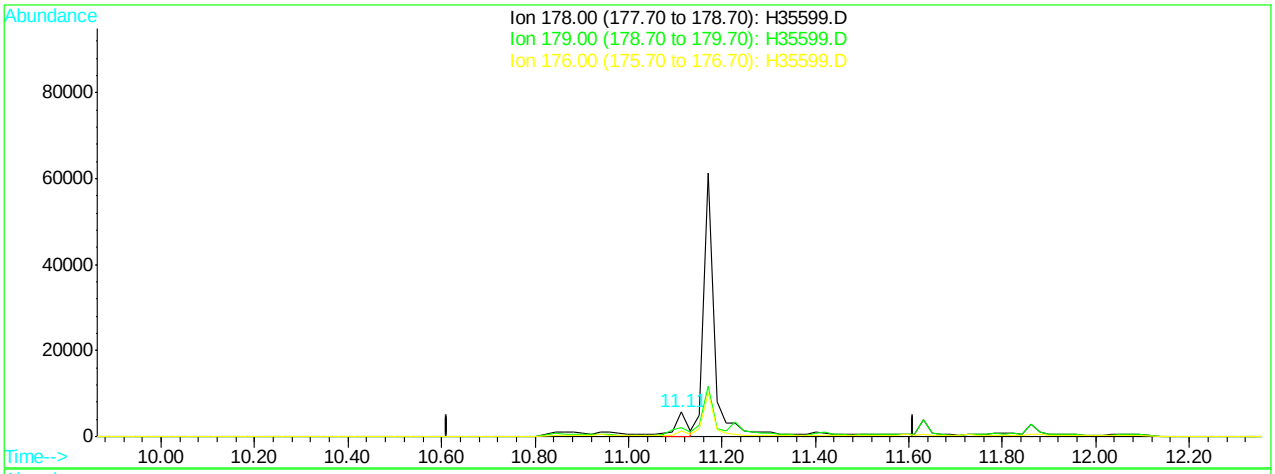
Ion	Exp%	Act%
142.00	100	100
141.00	86.50	127.95#
115.00	0.00	0.00
0.00	0.00	0.00

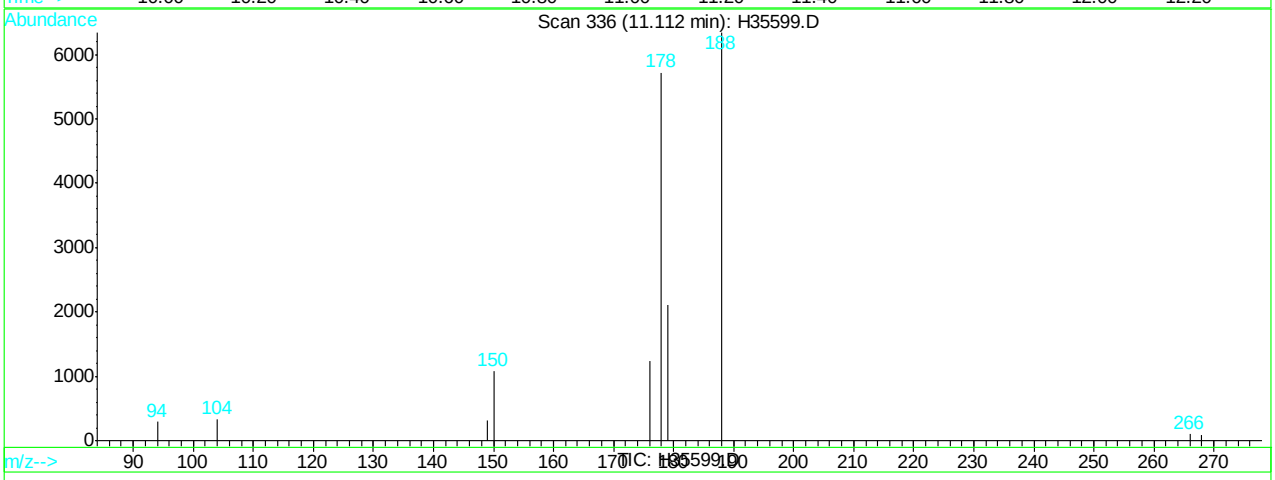
H35599.D H10239SP.M Mon Oct 26 19:10:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.25ppb m

response 9227

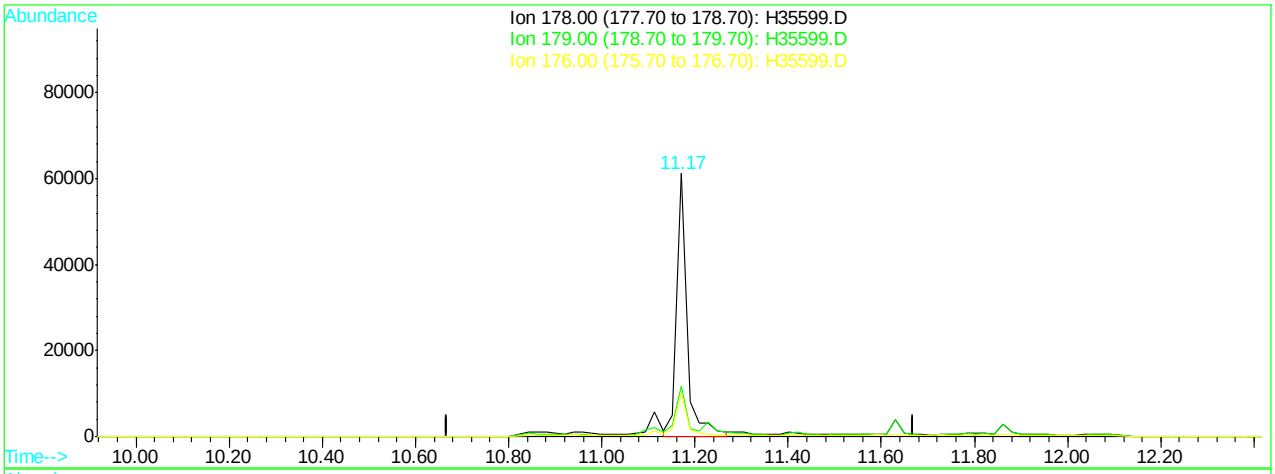
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	36.77#
176.00	19.60	21.72
0.00	0.00	0.00

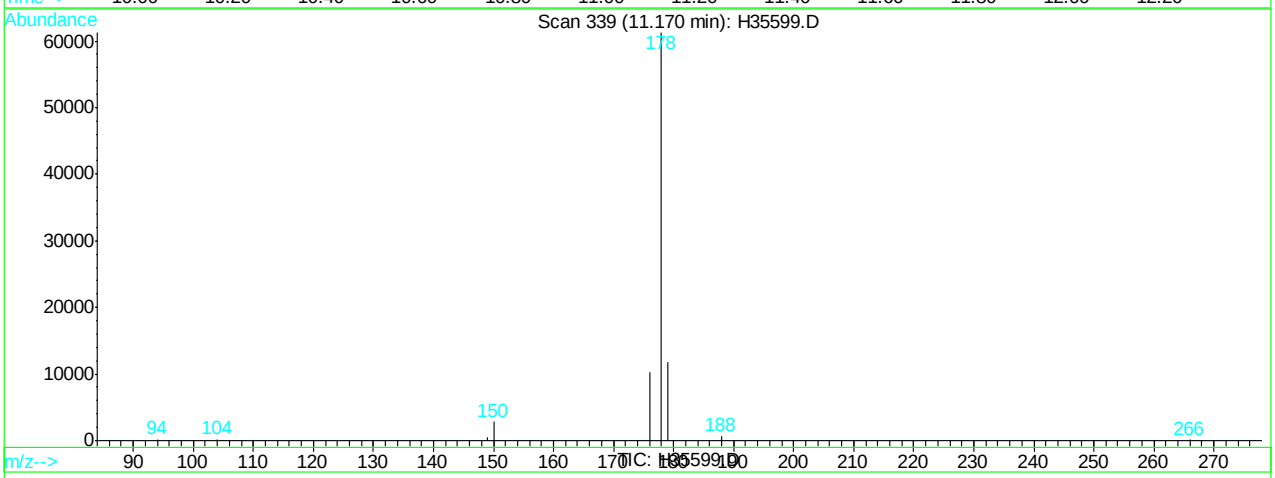
H35599.D H10239SP.M Mon Oct 26 19:10:30 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 2.22ppb m

response 95850

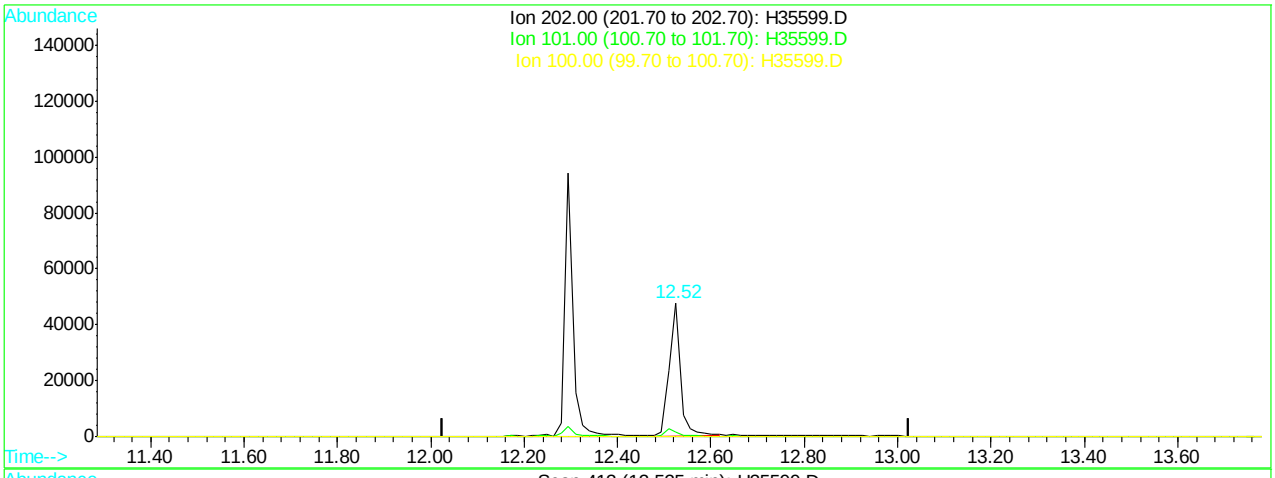
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	19.17
176.00	19.00	16.76
0.00	0.00	0.00

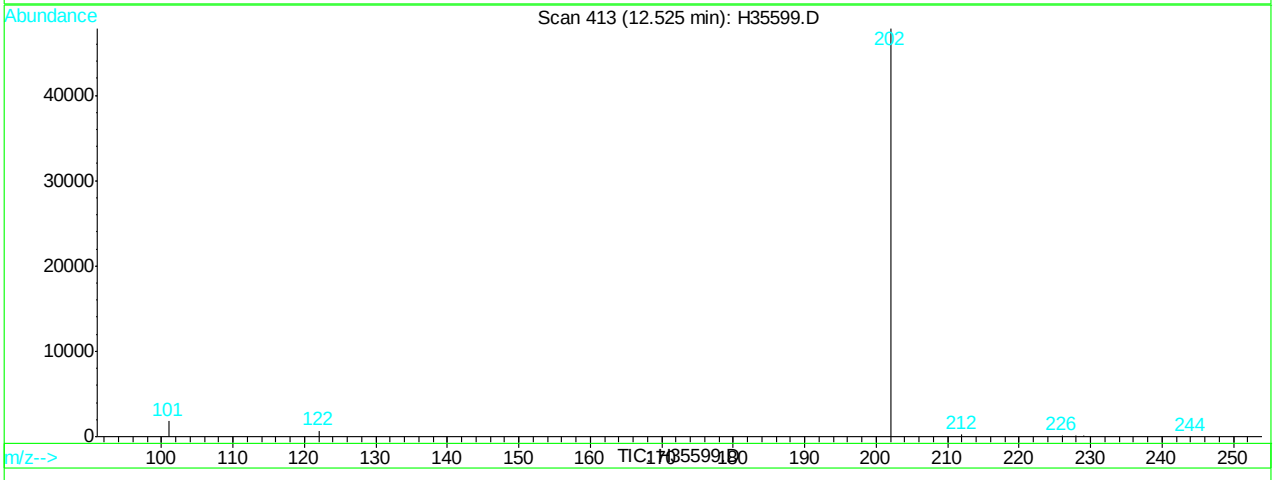
H35599.D H10239SP.M Mon Oct 26 19:10:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.52min 3.52ppb m

response 79067

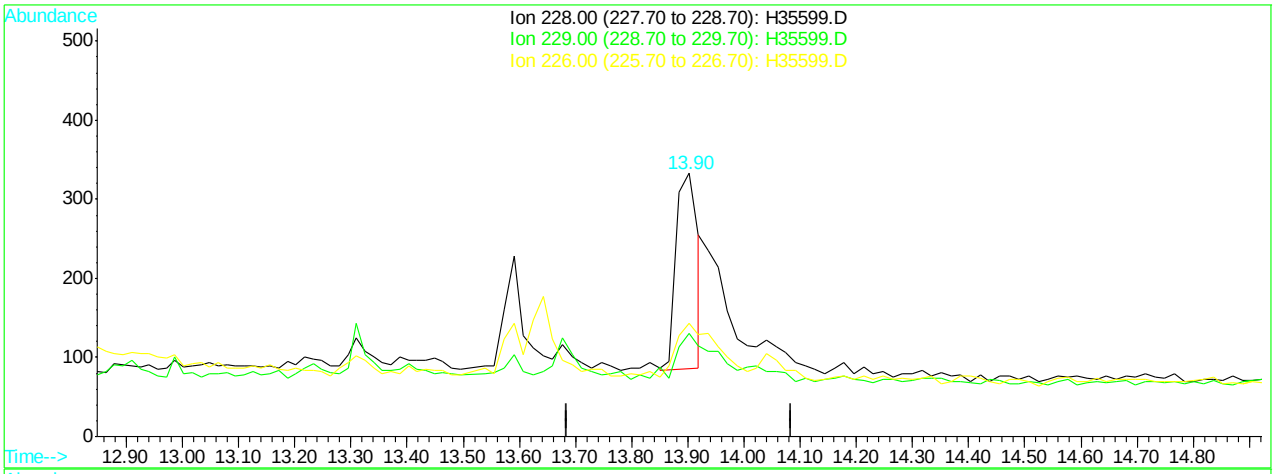
Ion	Exp%	Act%
202.00	100	100
101.00	5.00	3.77
100.00	0.00	0.00
0.00	0.00	0.00

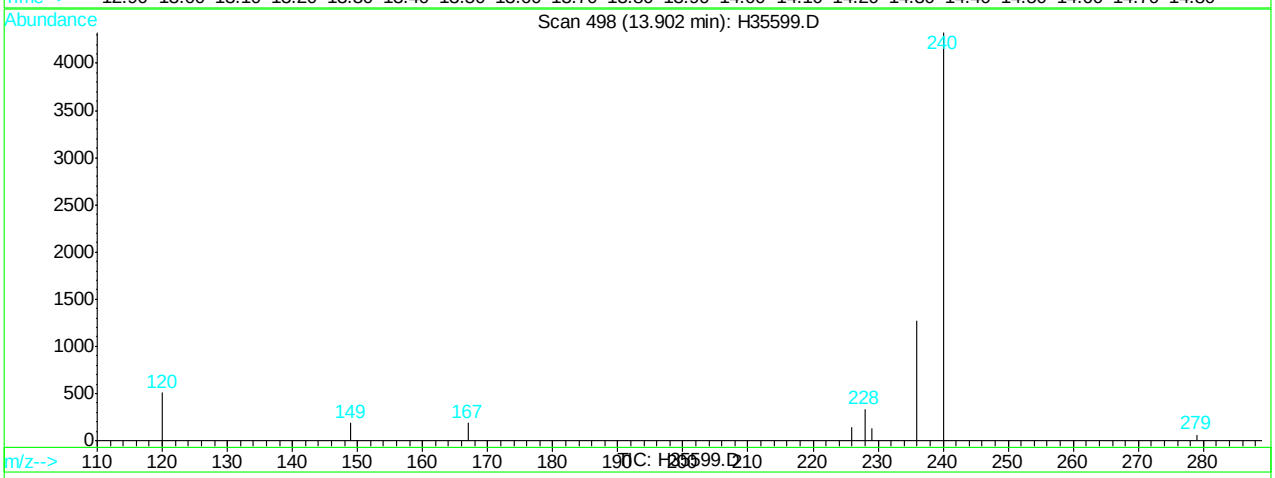
H35599.D H10239SP.M Mon Oct 26 19:10:43 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.22ppb m

response 677

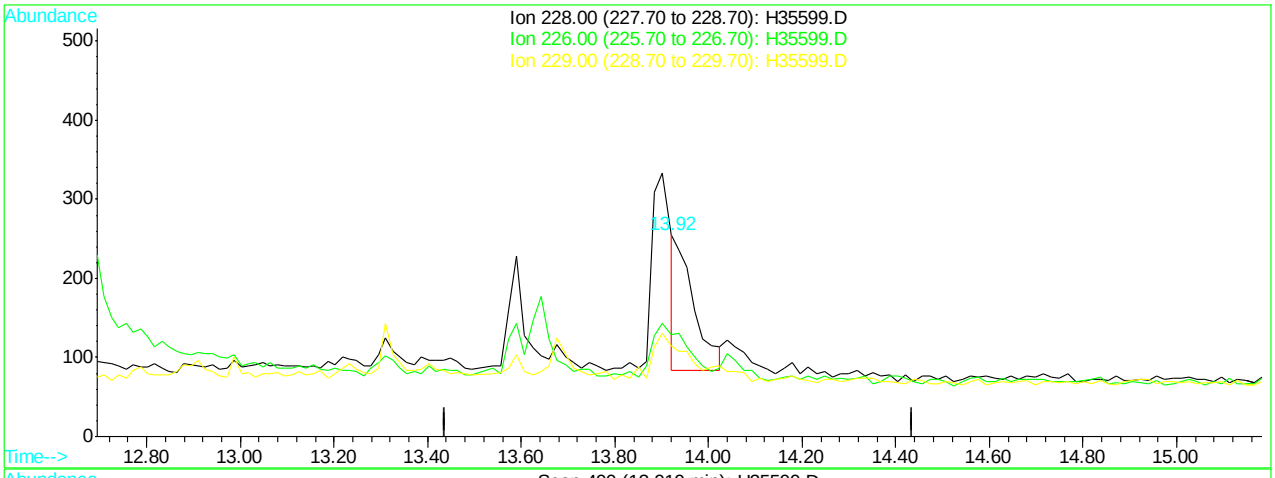
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	39.04#
226.00	30.50	42.94#
0.00	0.00	0.00

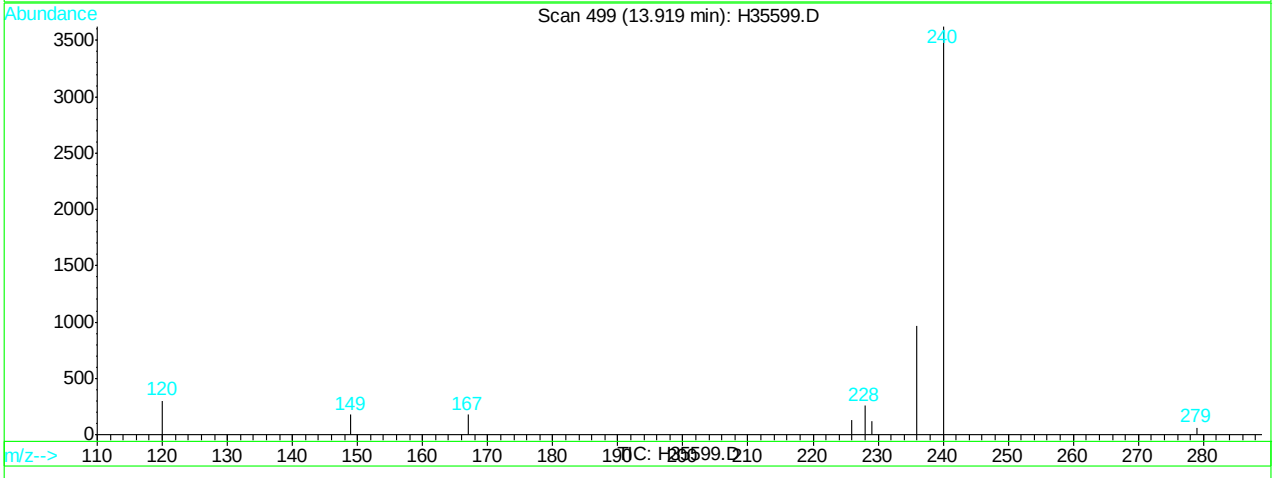
H35599.D H10239SP.M Mon Oct 26 19:10:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35599.D Vial: 21
Acq On : 23 Oct 2009 8:23 pm Operator: sheilac
Sample : t39646-6,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:05 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.08ppb m

response 474

Ion	Exp%	Act%
228.00	100	100
226.00	31.10	50.59#
229.00	21.20	45.10#
0.00	0.00	0.00

H35599.D H10239SP.M Mon Oct 26 19:10:51 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:25:01 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	68213	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	64584	4.00	ppb	-0.23
9) Acenaphthene-d10	9.57	164	41158	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	88087	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	16262	4.00	ppb	-0.03
26) Perylene-d12	16.40	264	4126	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	118640	55.27	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 1105.40%#		
10) 2-Fluorobiphenyl	8.87	172	1717396	78.52	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1570.40%#		
16) 2,4,6-Tribromophenol	10.42	330	350172	119.04	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	= 1190.40%#		
23) Terphenyl-d14	12.66	244	347743	80.00	ppb	-0.01
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1600.00%#		

Target Compounds

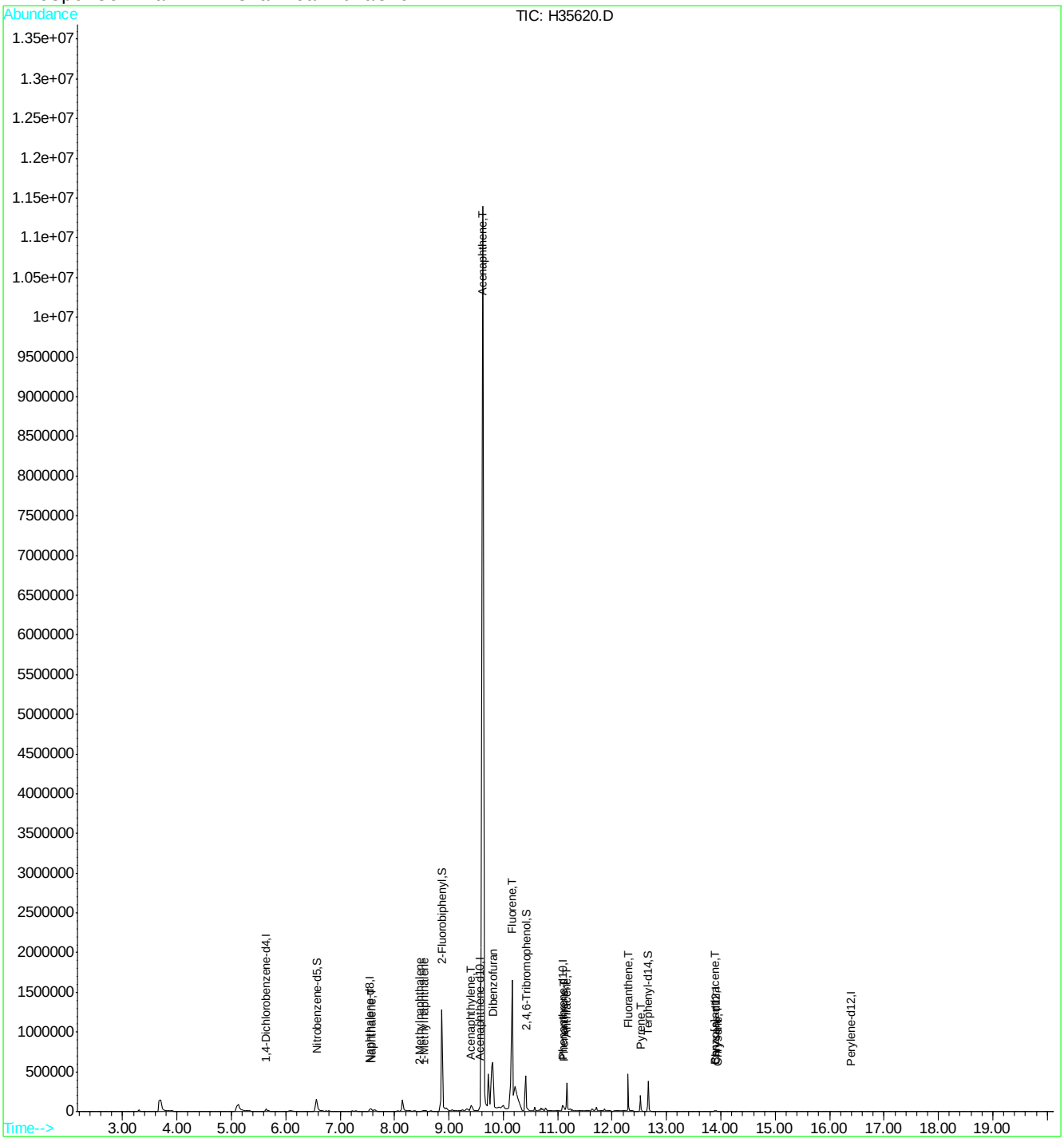
							Qvalue
6) Naphthalene	7.57	128	30445	1.26	ppb		95
7) 2-Methylnaphthalene	8.46	142	822m	0.25	ppb		
8) 1-Methylnaphthalene	8.55	142	11672m	0.55	ppb		
11) Acenaphthylene	9.41	152	114112	4.21	ppb	#	96
12) Acenaphthene	9.62	153	8608240	381.45	ppb		91
13) Dibenzofuran	9.81	168	900544	42.48	ppb	#	54
14) Fluorene	10.16	166	1938433m	142.43	ppb		
18) Phenanthrene	11.11	178	39784m	1.12	ppb		
19) Anthracene	11.17	178	345343m	7.65	ppb		
20) Fluoranthene	12.30	202	480385	16.71	ppb		98
22) Pyrene	12.53	202	314842	11.17	ppb	#	87
24) Benzo[a]anthracene	13.89	228	4001m	1.27	ppb		
25) Chrysene	13.94	228	1572m	0.25	ppb		

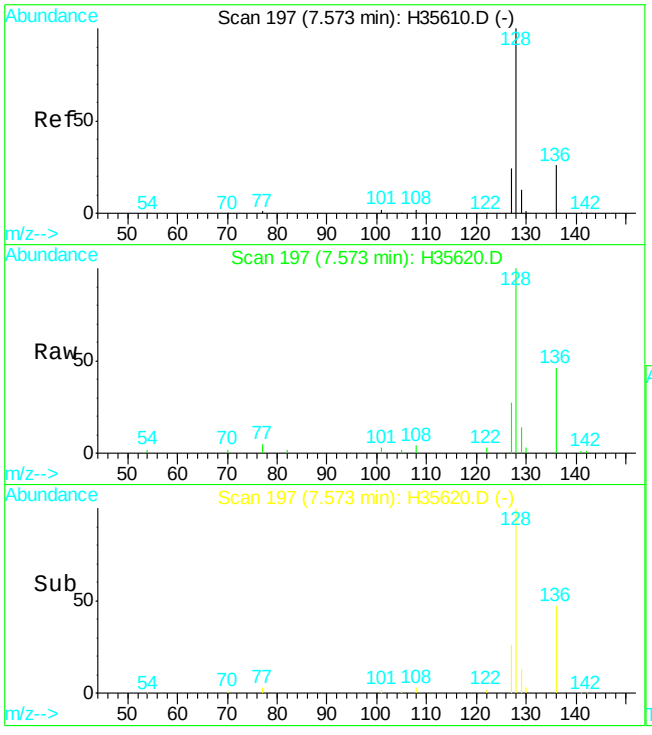
(#) = qualifier out of range (m) = manual integration
H35620.D H10269SP.M Mon Oct 26 19:13:29 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: H10269SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Initial Calibration

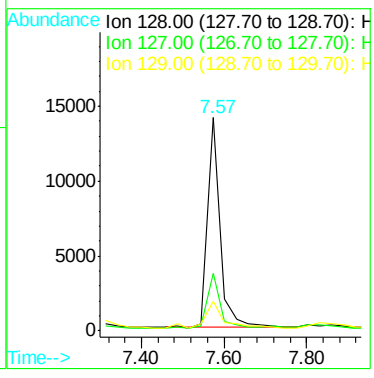


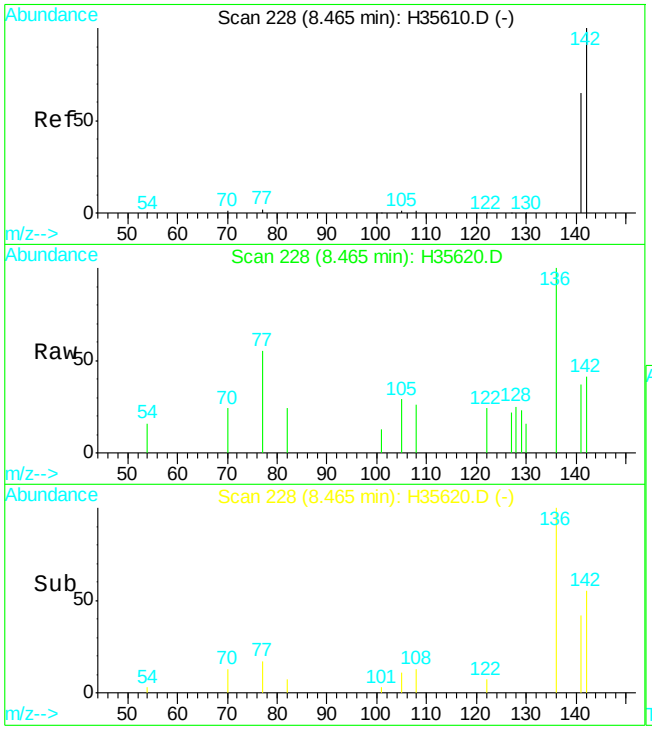


#6
Naphthalene
Concen: 1.26 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:128 Resp: 30445

Ion	Ratio	Lower	Upper
128	100		
127	25.9	15.8	29.4
129	12.6	8.5	15.9

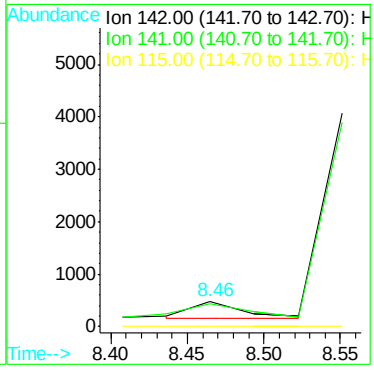


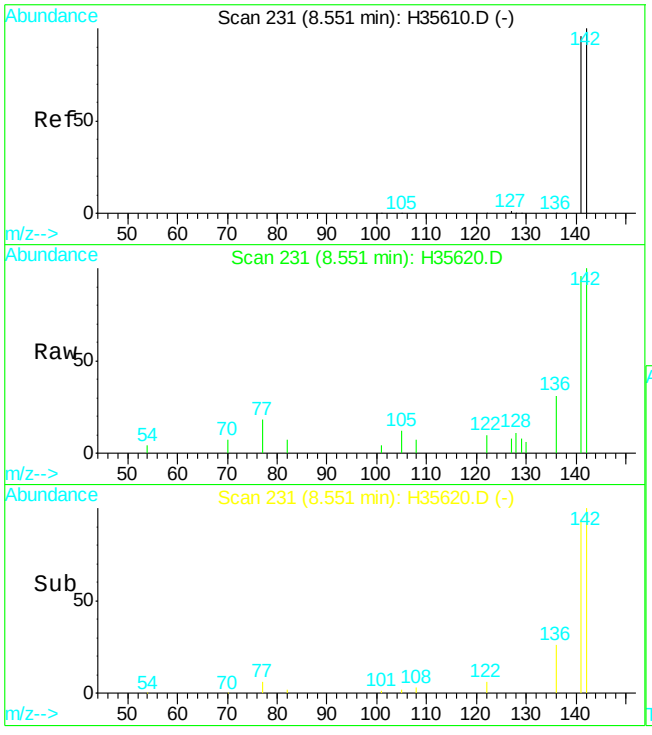


#7
2-Methylnaphthalene
Concen: 0.25 ppb m
RT: 8.46 min Scan# 228
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:142 Resp: 822

Ion	Ratio	Lower	Upper
142	100		
141	1733.3	168.7	313.3#
115	0.0	0.0	0.0

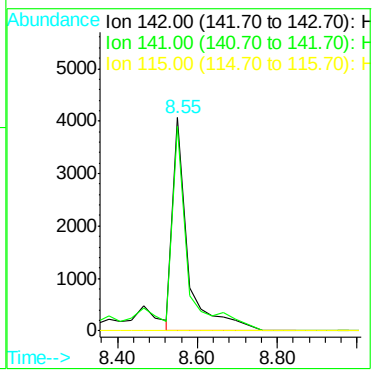


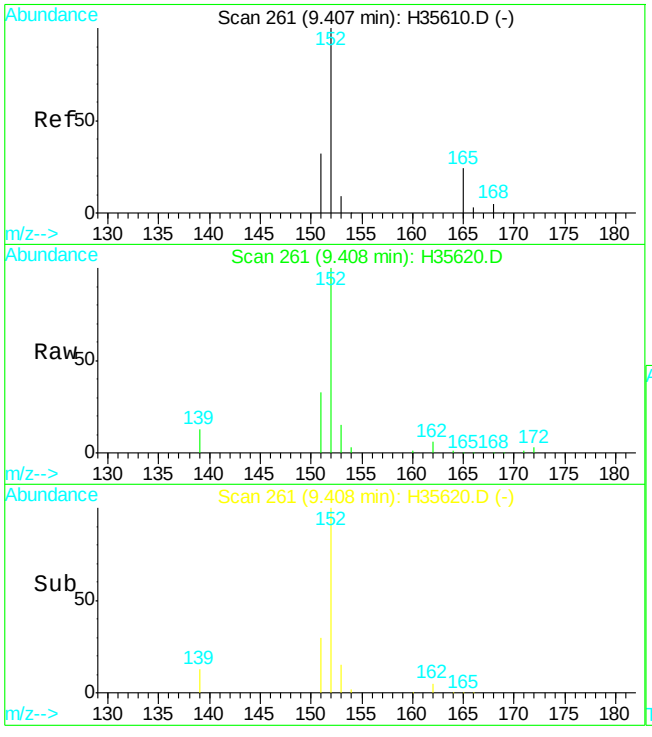


#8
1-Methylnaphthalene
Concen: 0.55 ppb m
RT: 8.55 min Scan# 231
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:142 Resp: 11672

Ion	Ratio	Lower	Upper
142	100		
141	122.1	85.3	158.3
115	0.0	0.0	0.0

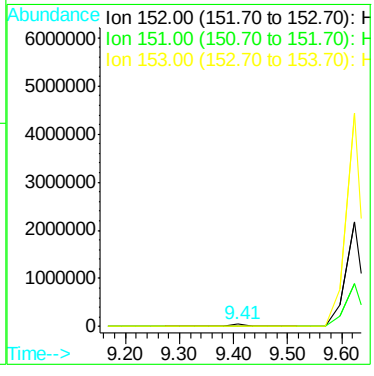


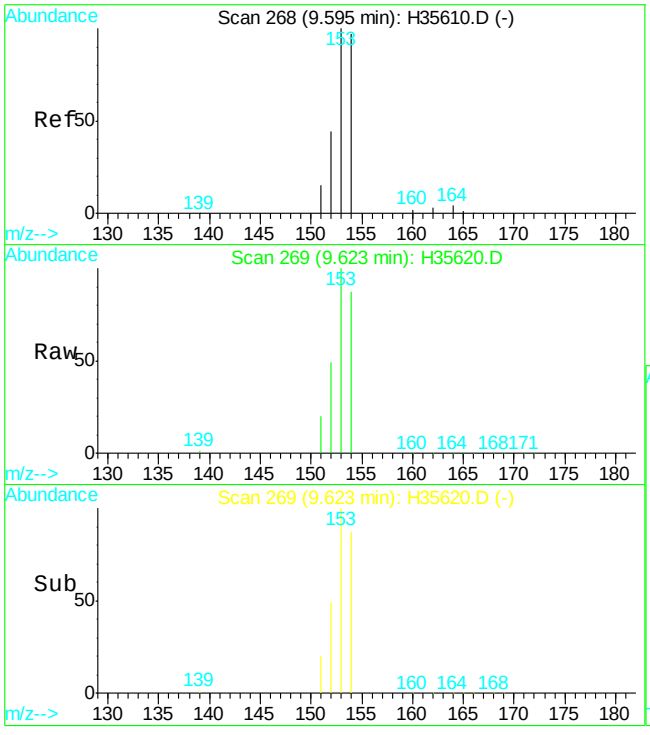


#11
Acenaphthylene
Concen: 4.21 ppb
RT: 9.41 min Scan# 261
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:152 Resp: 114112

Ion	Ratio	Lower	Upper
152	100		
151	32.4	22.8	42.4
153	14.3	5.9	11.1#

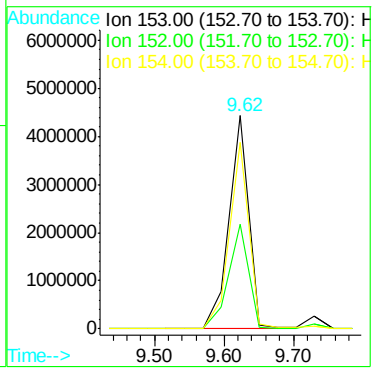


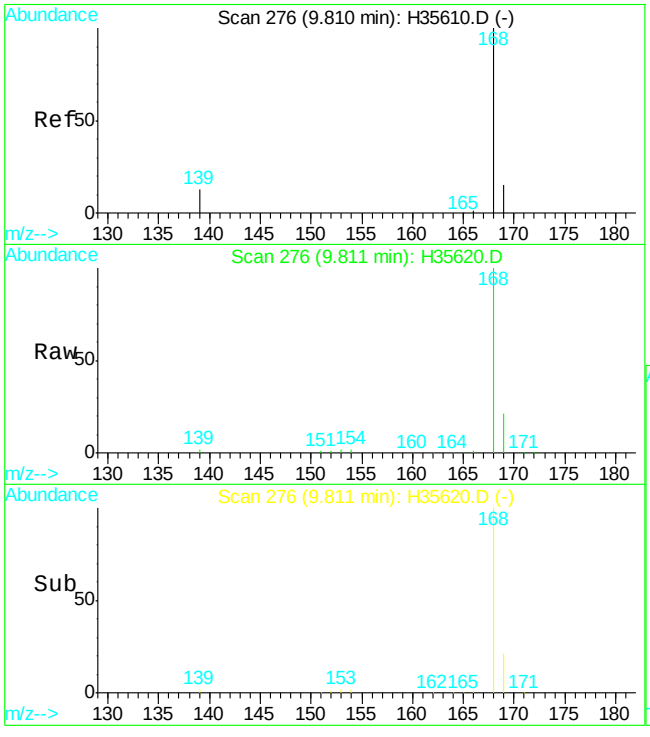


#12
Acenaphthene
Concen: 381.45 ppb
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:153 Resp: 8608240

Ion	Ratio	Lower	Upper
153	100		
152	48.9	31.0	57.6
154	87.2	67.6	125.6

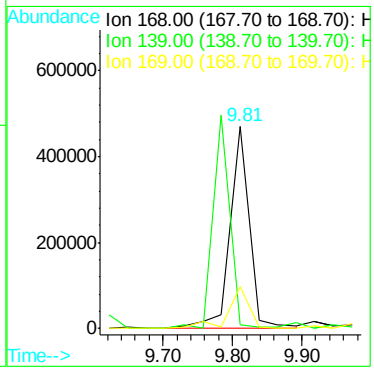


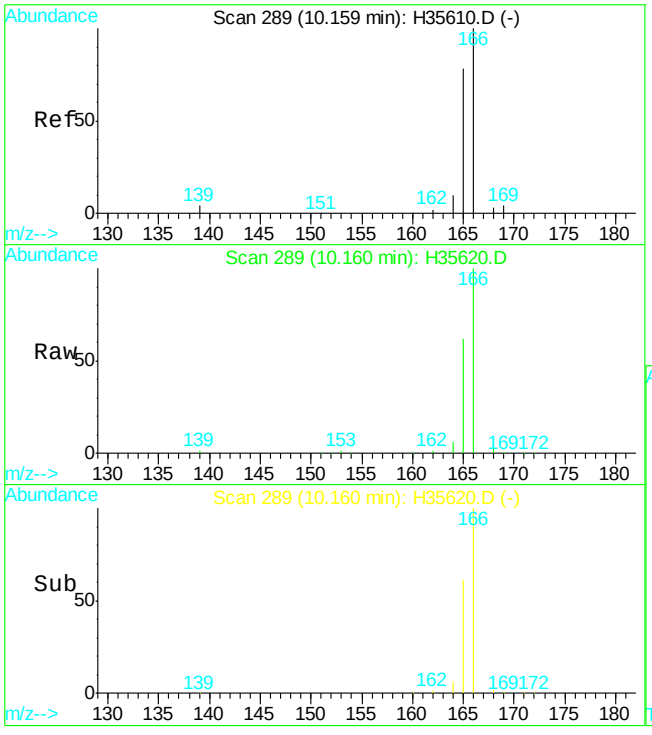


#13
Dibenzofuran
Concen: 42.48 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:168 Resp: 900544

Ion	Ratio	Lower	Upper
168	100		
139	93.1	37.9	70.5#
169	22.4	10.6	19.6#

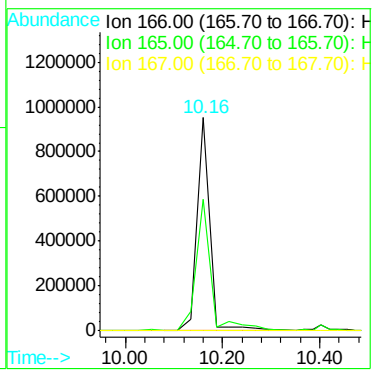


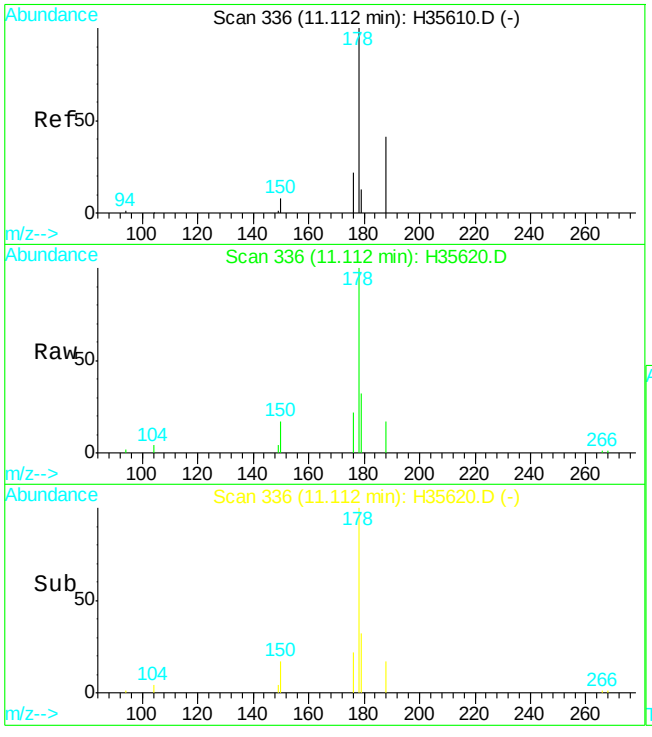


#14
Fluorene
Concen: 142.43 ppb m
RT: 10.16 min Scan# 289
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:166 Resp: 1938433

Ion	Ratio	Lower	Upper
166	100		
165	61.5	75.7	140.7#
167	0.0	0.0	0.0

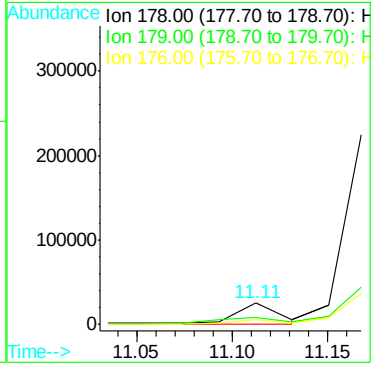


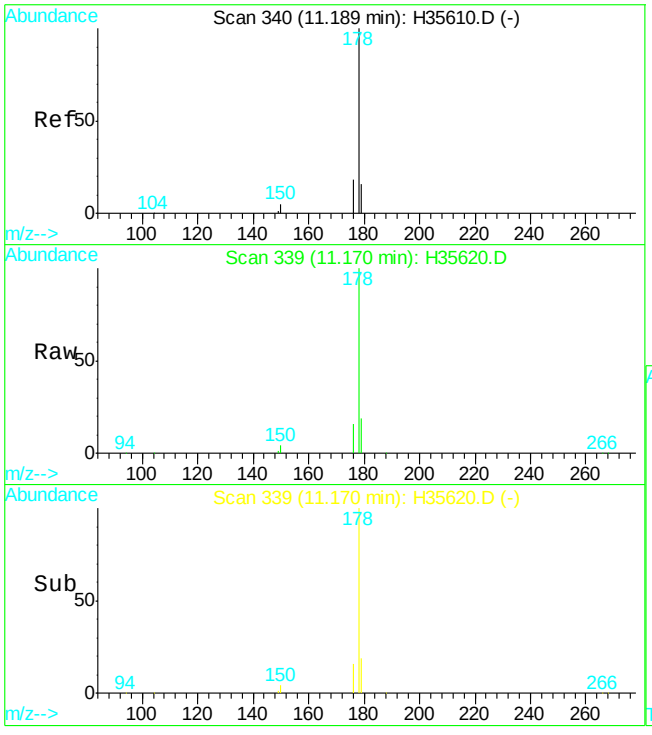


#18
Phenanthrene
Concen: 1.12 ppb m
RT: 11.11 min Scan# 336
Delta R.T. -0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:178 Resp: 39784

Ion	Ratio	Lower	Upper
178	100		
179	32.3	9.0	16.8#
176	21.7	16.0	29.8

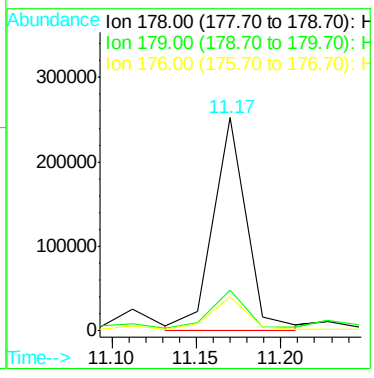


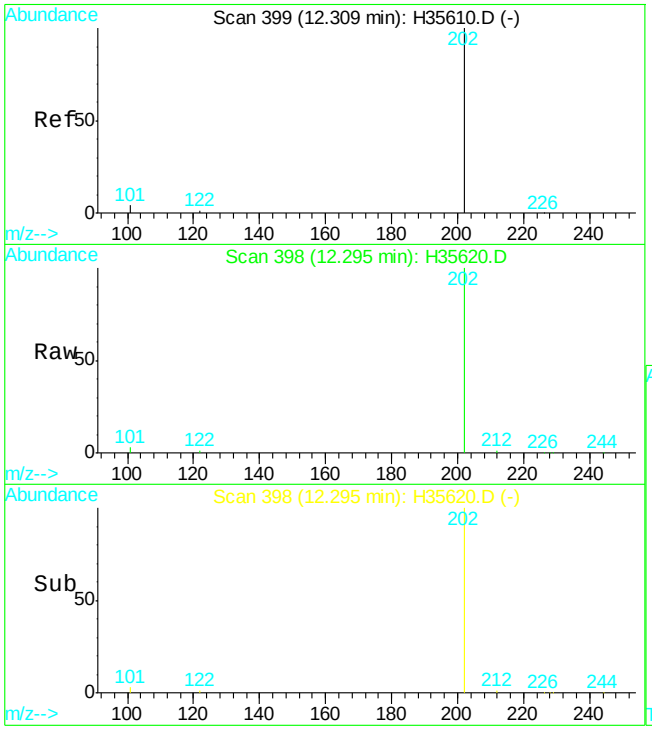


#19
Anthracene
Concen: 7.65 ppb m
RT: 11.17 min Scan# 339
Delta R.T. -0.02 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:178 Resp: 345343

Ion	Ratio	Lower	Upper
178	100		
179	19.3	11.4	21.2
176	15.9	12.7	23.7

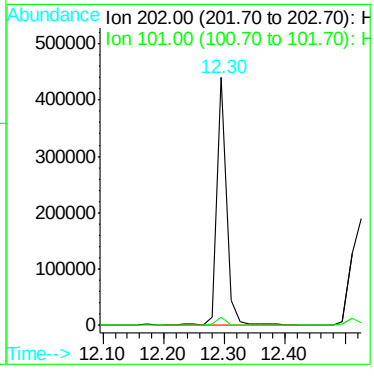


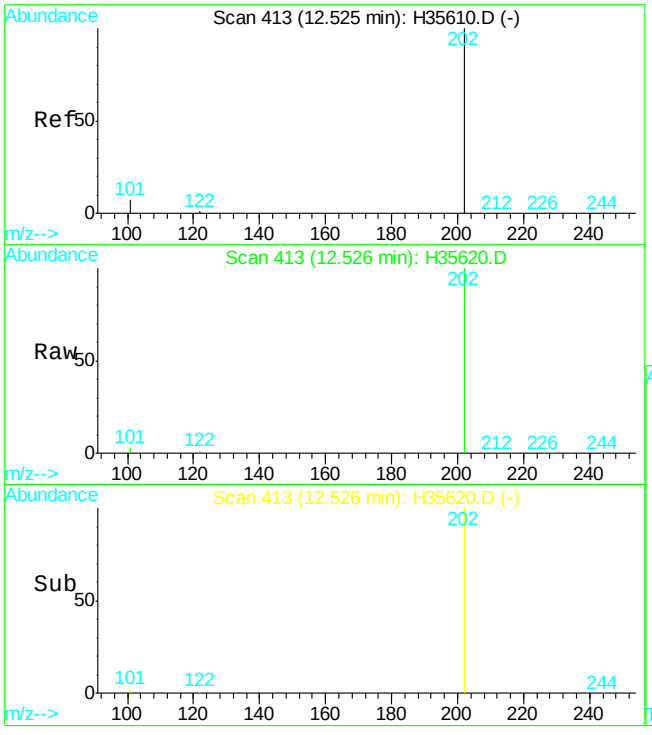


#20
Fluoranthene
Concen: 16.71 ppb
RT: 12.30 min Scan# 398
Delta R.T. -0.01 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:202 Resp: 480385

Ion	Ratio	Lower	Upper
202	100		
101	3.3	2.8	5.2

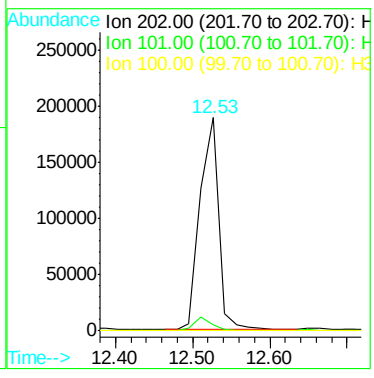


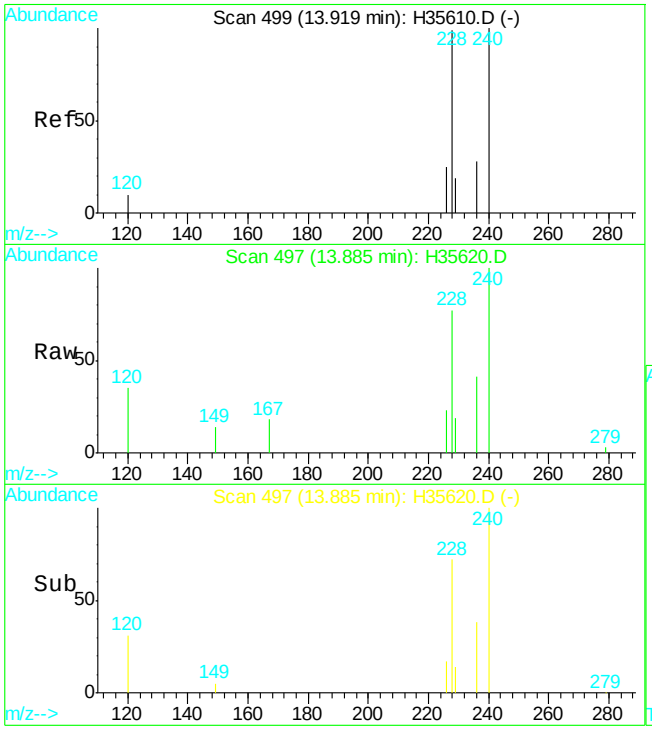


#22
Pyrene
Concen: 11.17 ppb
RT: 12.53 min Scan# 413
Delta R.T. 0.00 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:202 Resp: 314842

Ion	Ratio	Lower	Upper
202	100		
101	2.6	4.8	9.0#
100	0.0	0.0	0.0

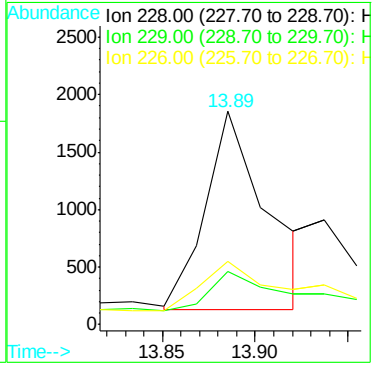


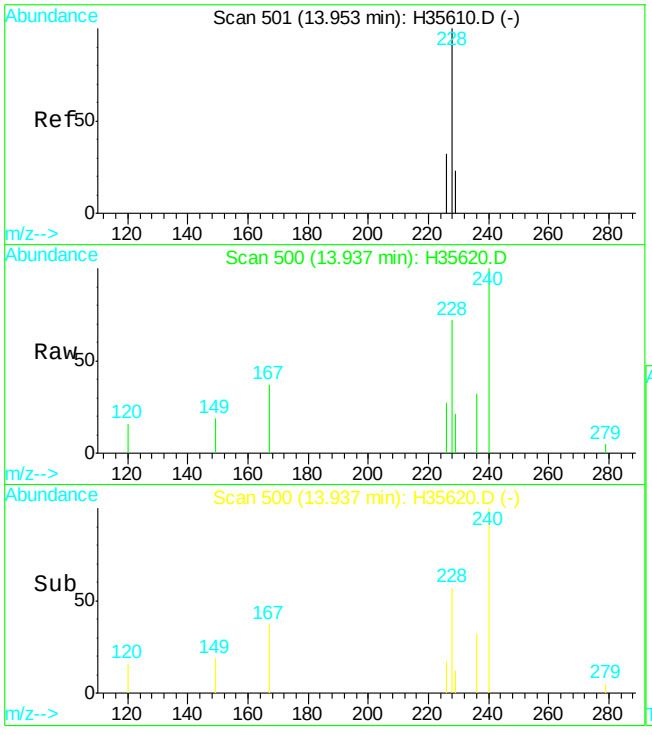


#24
Benzo[a]anthracene
Concen: 1.27 ppb m
RT: 13.89 min Scan# 497
Delta R.T. -0.03 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:228 Resp: 4001

Ion	Ratio	Lower	Upper
228	100		
229	25.0	16.0	29.6
226	29.8	20.0	37.2

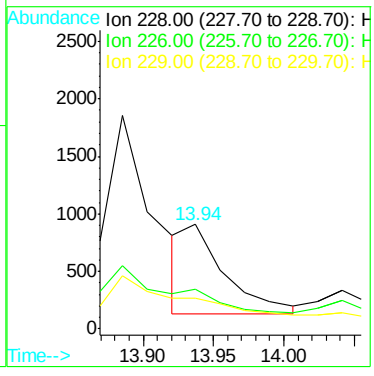




#25
Chrysene
Concen: 0.25 ppb m
RT: 13.94 min Scan# 500
Delta R.T. -0.02 min
Lab File: H35620.D
Acq: 26 Oct 2009 5:37 pm

Tgt Ion:228 Resp: 1572

Ion	Ratio	Lower	Upper
228	100		
226	37.6	22.3	41.3
229	29.8	15.7	29.1#



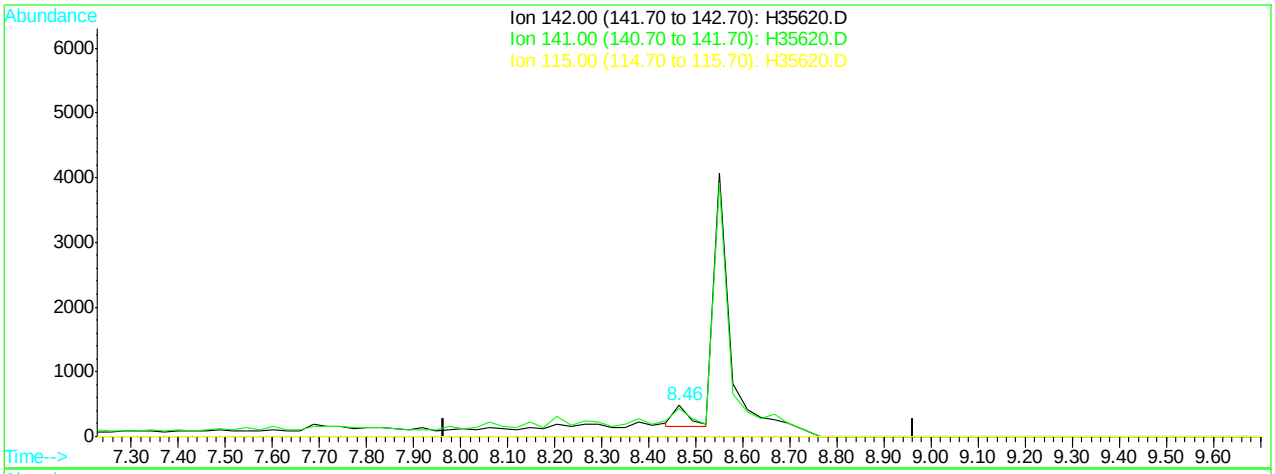
8.1.40

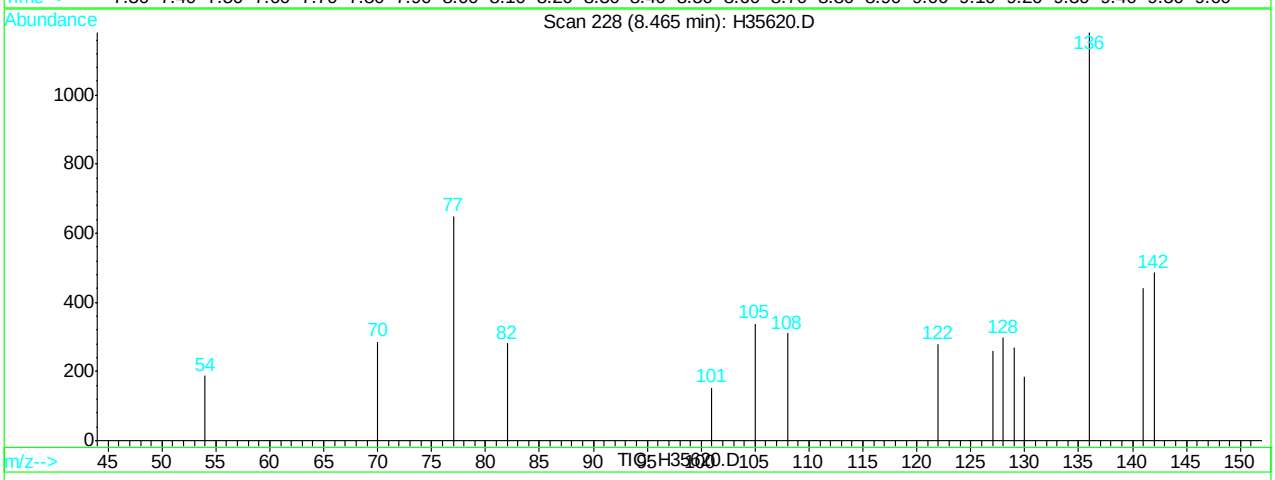
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.25ppb m

response 822

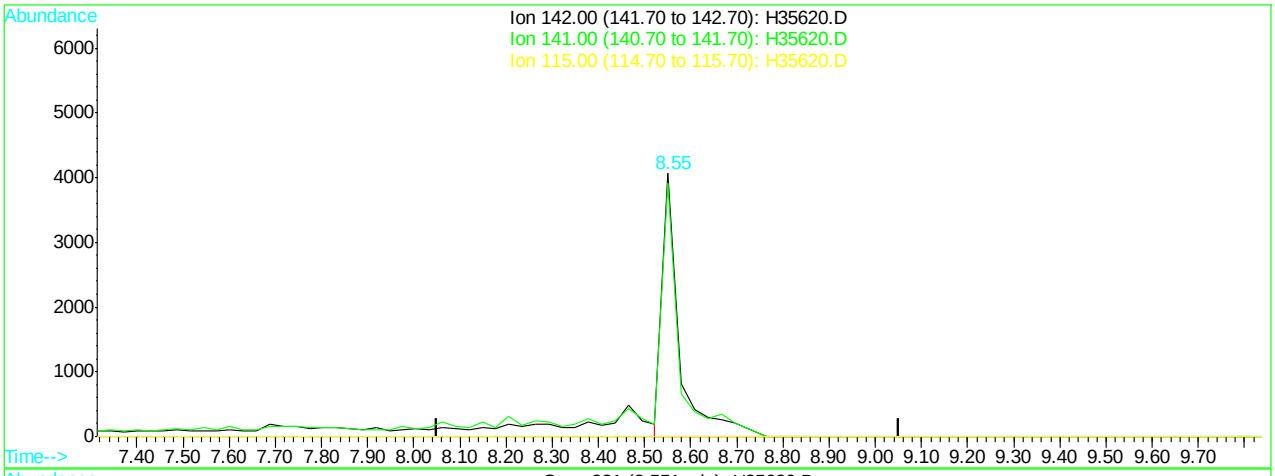
Ion	Exp%	Act%
142.00	100	100
141.00	241.00	1733.33#
115.00	0.00	0.00
0.00	0.00	0.00

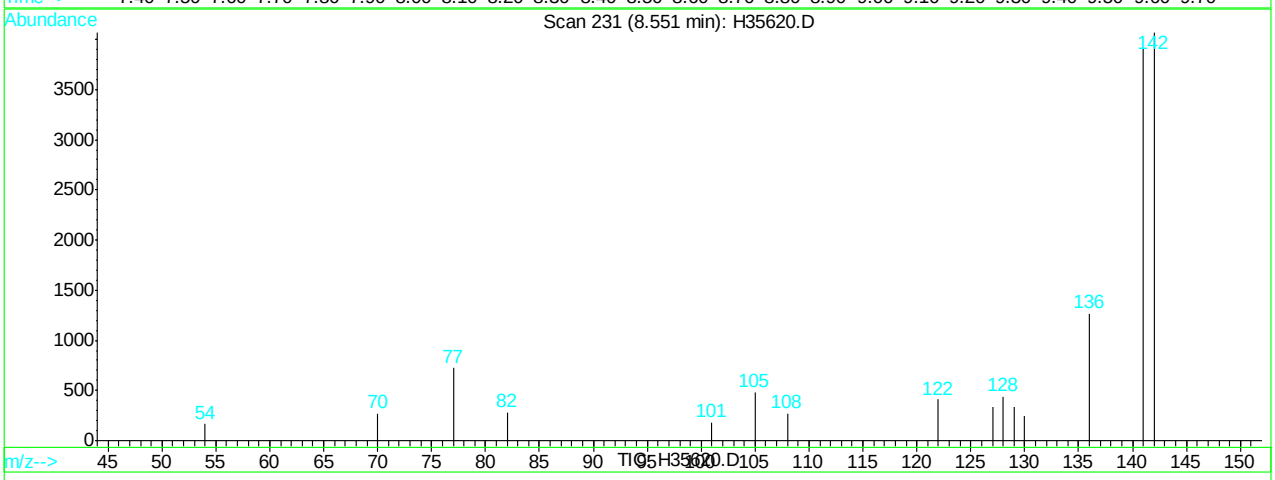
H35620.D H10269SP.M Mon Oct 26 19:14:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 0.55ppb m

response 11672

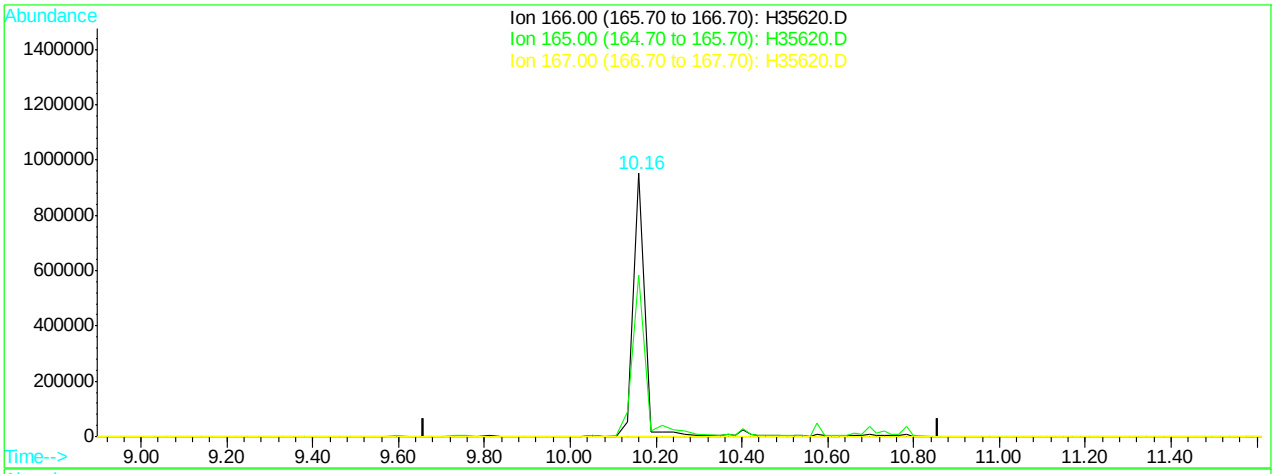
Ion	Exp%	Act%
142.00	100	100
141.00	121.80	122.07
115.00	0.00	0.00
0.00	0.00	0.00

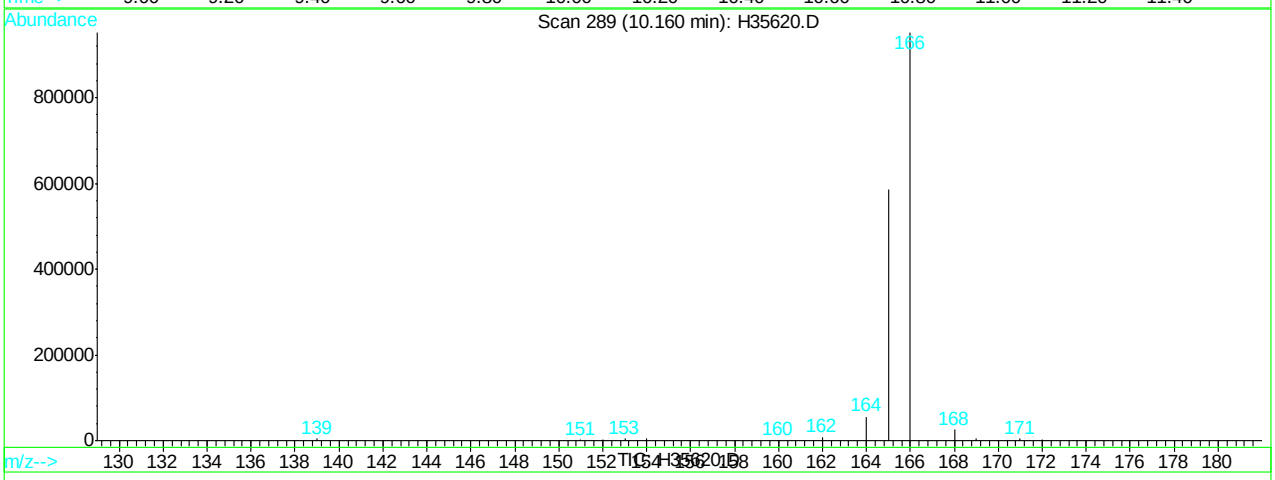
H35620.D H10269SP.M Mon Oct 26 19:14:04 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.16min 142.43ppb m

response 1938433

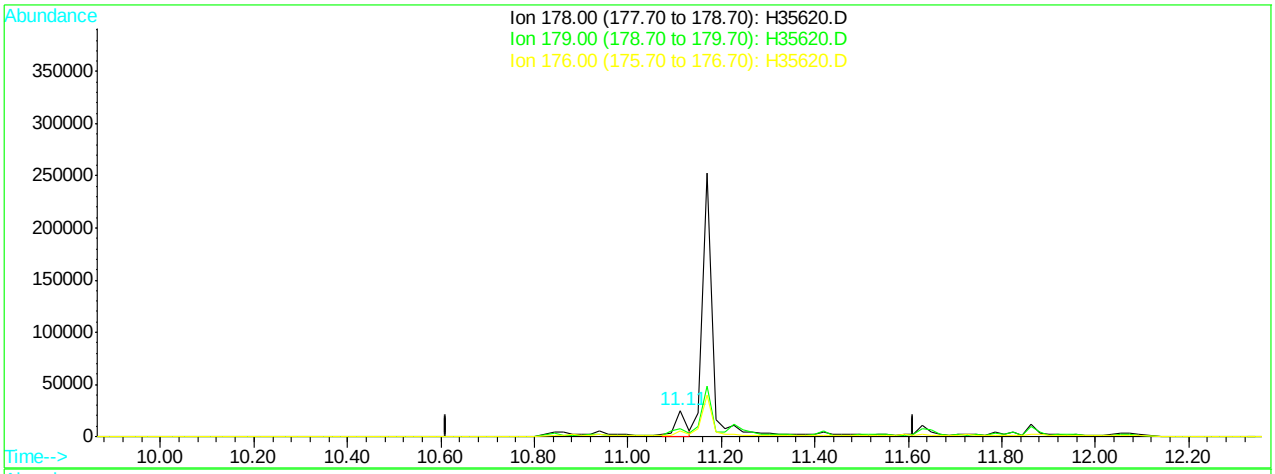
Ion	Exp%	Act%
166.00	100	100
165.00	108.20	61.51#
167.00	0.00	0.00
0.00	0.00	0.00

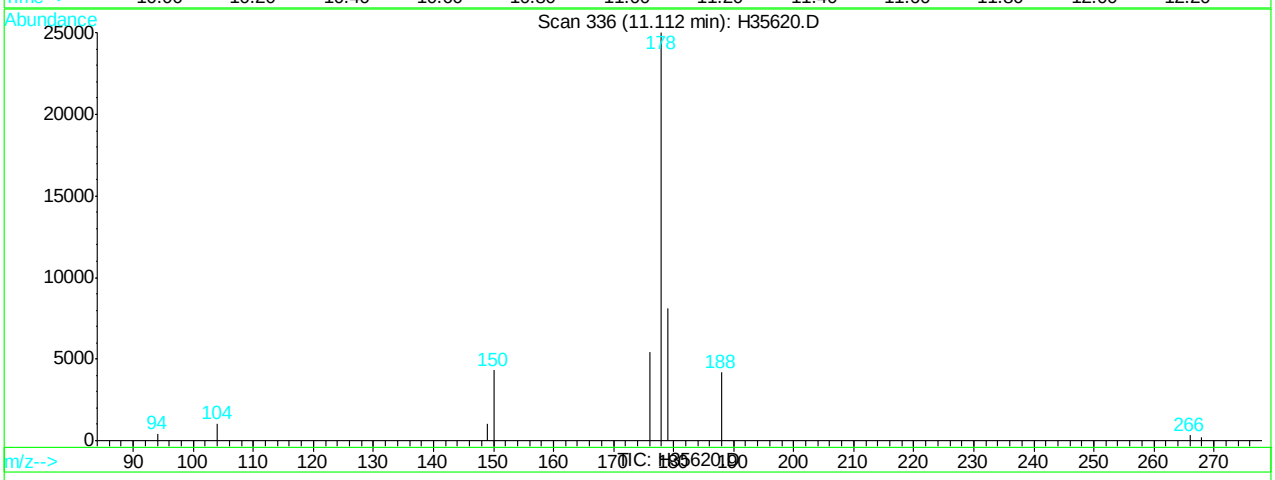
H35620.D H10269SP.M Mon Oct 26 19:14:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 1.12ppb m

response 39784

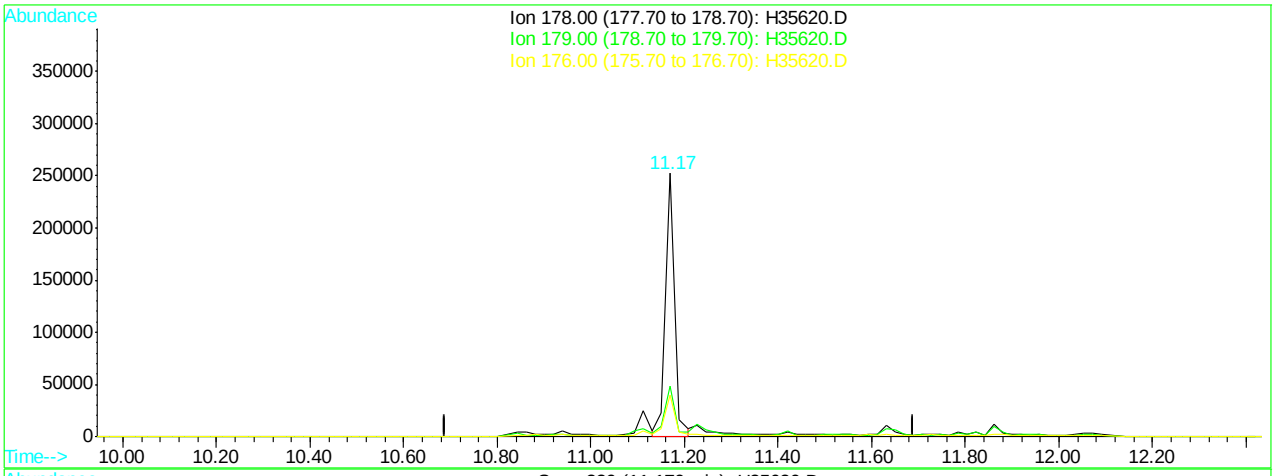
Ion	Exp%	Act%
178.00	100	100
179.00	12.90	32.30#
176.00	22.90	21.69
0.00	0.00	0.00

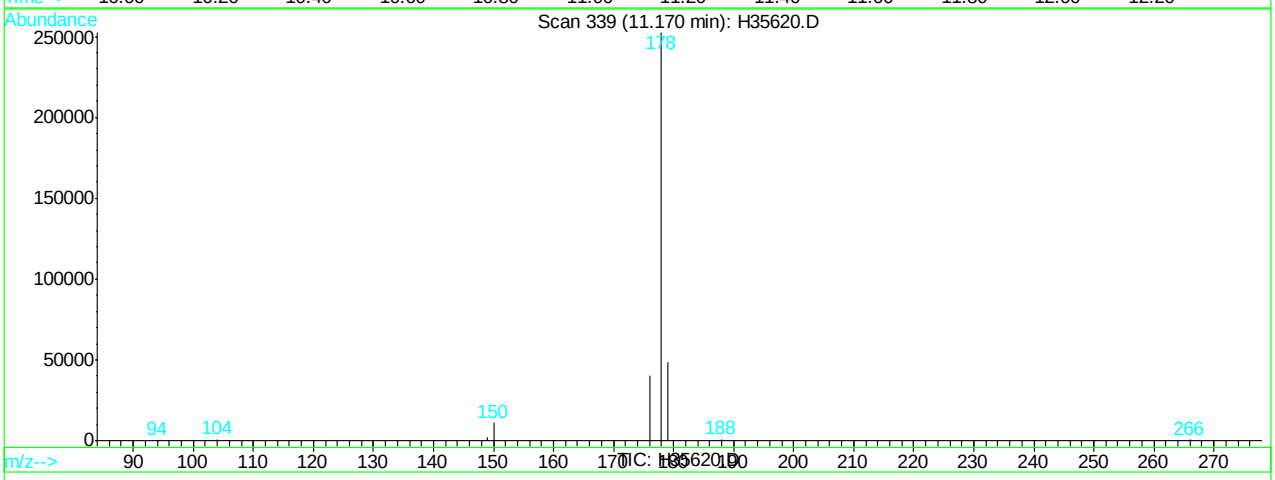
H35620.D H10269SP.M Mon Oct 26 19:14:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 7.65ppb m

response 345343

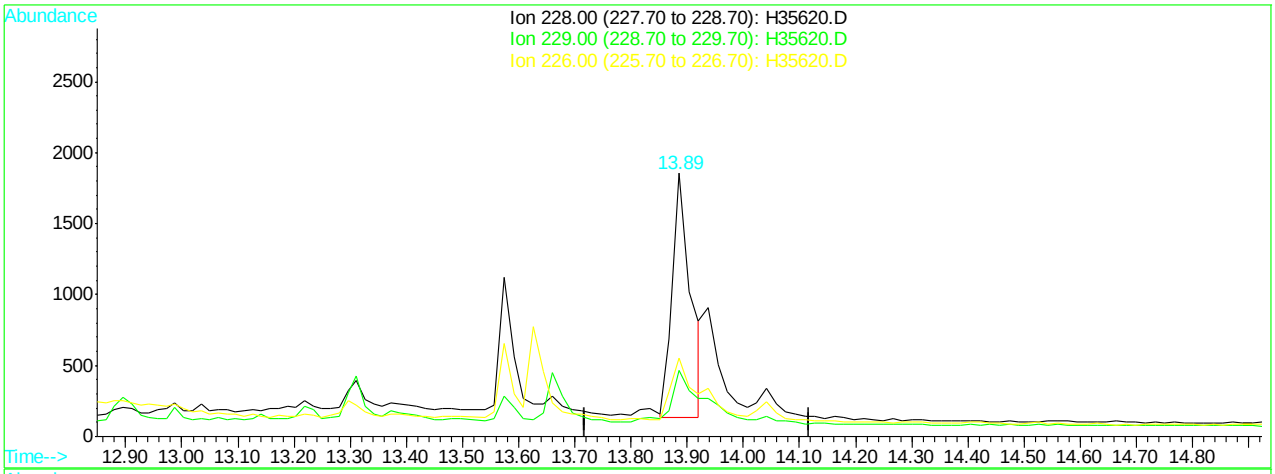
Ion	Exp%	Act%
178.00	100	100
179.00	16.30	19.28
176.00	18.20	15.88
0.00	0.00	0.00

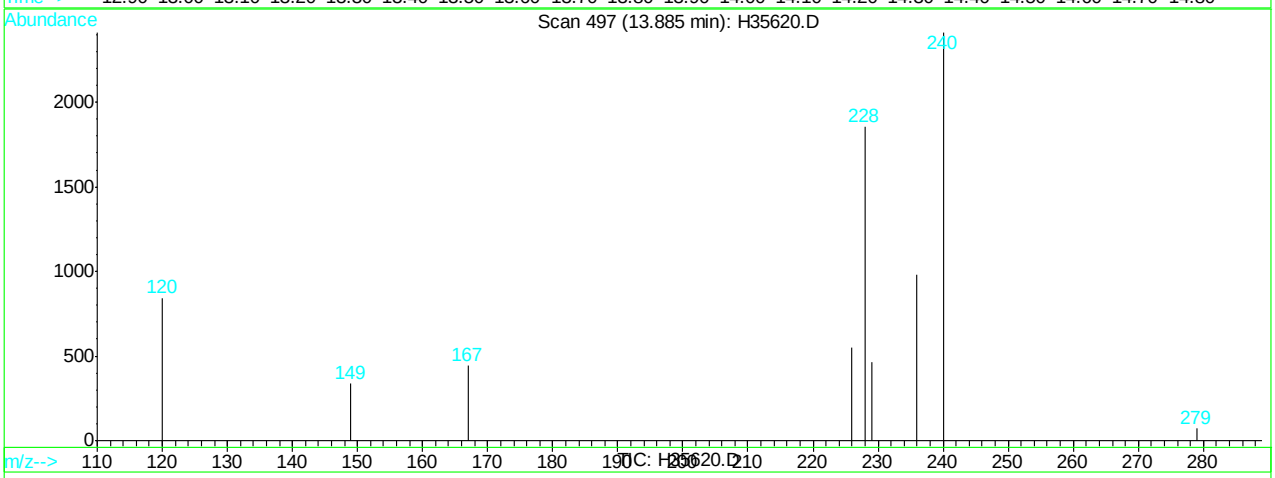
H35620.D H10269SP.M Mon Oct 26 19:14:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.89min 1.27ppb m

response 4001

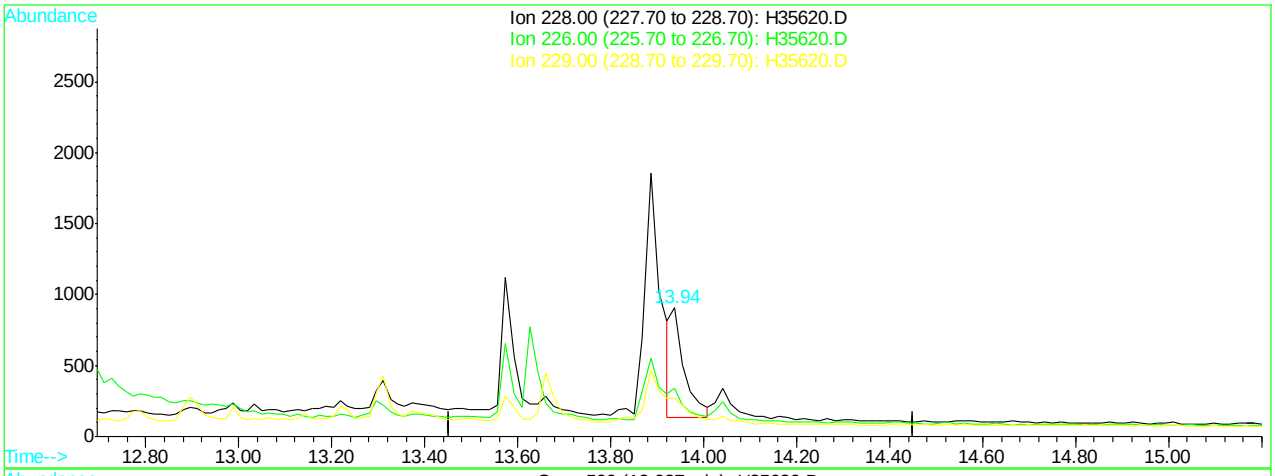
Ion	Exp%	Act%
228.00	100	100
229.00	22.80	25.01
226.00	28.60	29.81
0.00	0.00	0.00

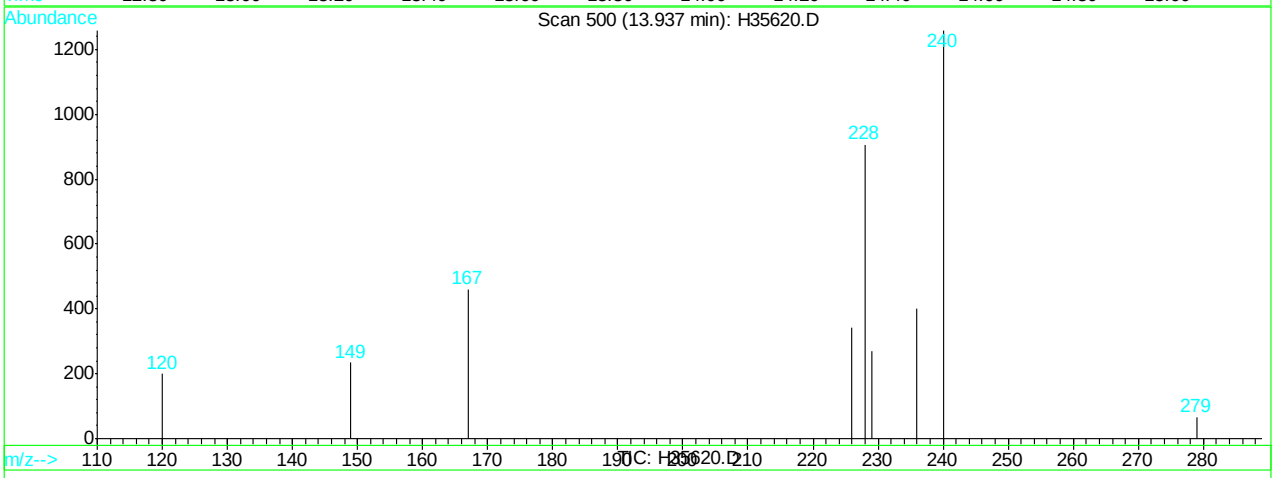
H35620.D H10269SP.M Mon Oct 26 19:14:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.25ppb m

response 1572

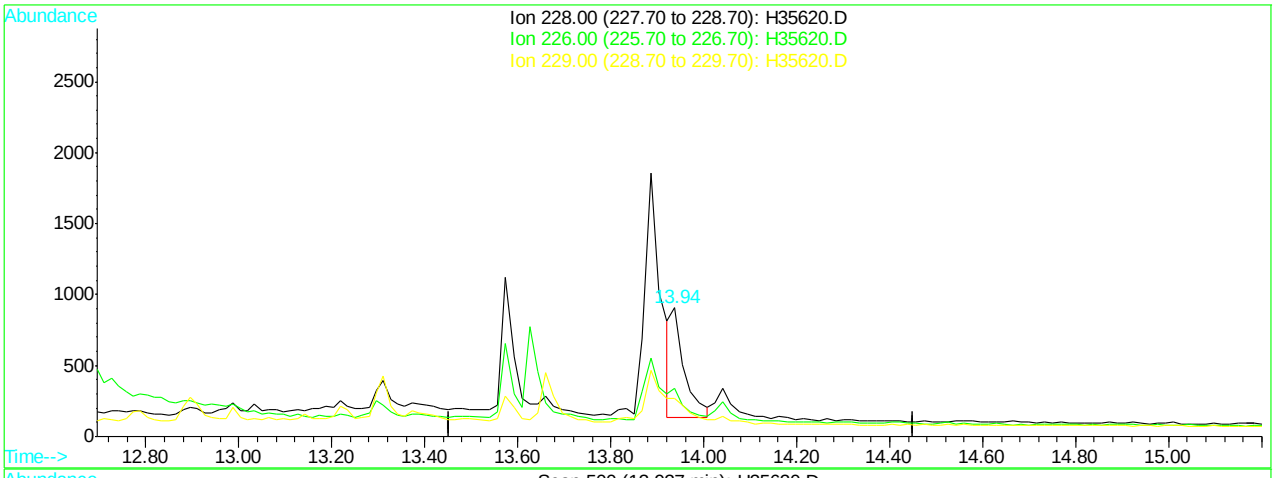
Ion	Exp%	Act%
228.00	100	100
226.00	31.80	37.64
229.00	22.40	29.80#
0.00	0.00	0.00

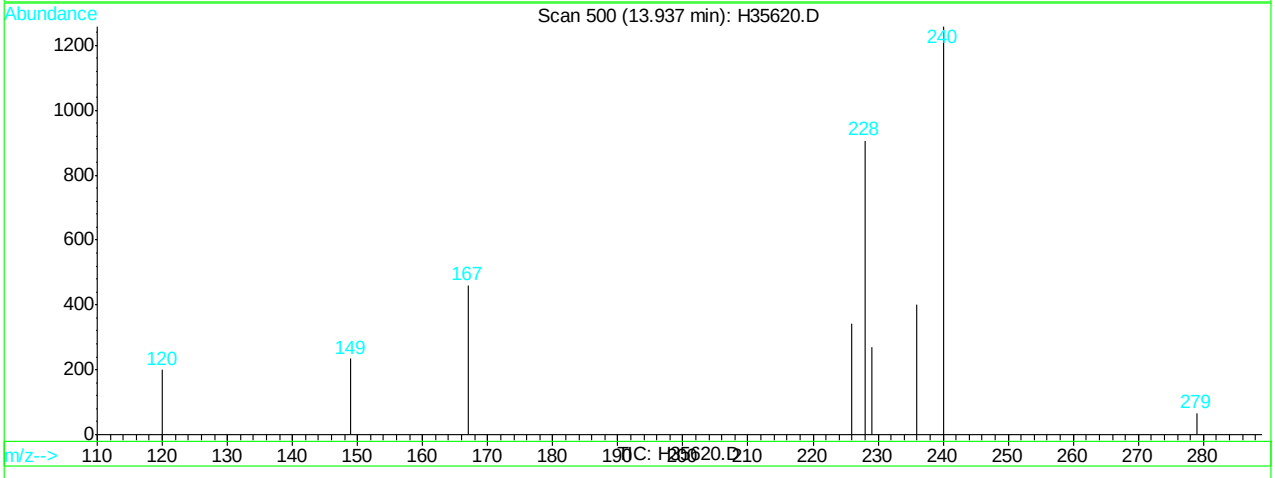
H35620.D H10269SP.M Mon Oct 26 19:14:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35620.D Vial: 12
Acq On : 26 Oct 2009 5:37 pm Operator: sheilac
Sample : t39646-6 Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 18:53:22 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.25ppb m

response 1572

Ion	Exp%	Act%
228.00	100	100
226.00	31.80	37.64
229.00	22.40	29.80#
0.00	0.00	0.00

H35620.D H10269SP.M Mon Oct 26 19:14:38 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	89429	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	88061	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	51764	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	86210	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10836	4.00	ppb	0.00
26) Perylene-d12	16.37	264	3684	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	122875	33.90	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 678.00%#			
10) 2-Fluorobiphenyl	8.87	172	1845882	50.01	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1000.20%#			
16) 2,4,6-Tribromophenol	10.42	330	333511	107.79	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1077.90%#			
23) Terphenyl-d14	12.66	244	194534	48.60	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 972.00%#			

Target Compounds

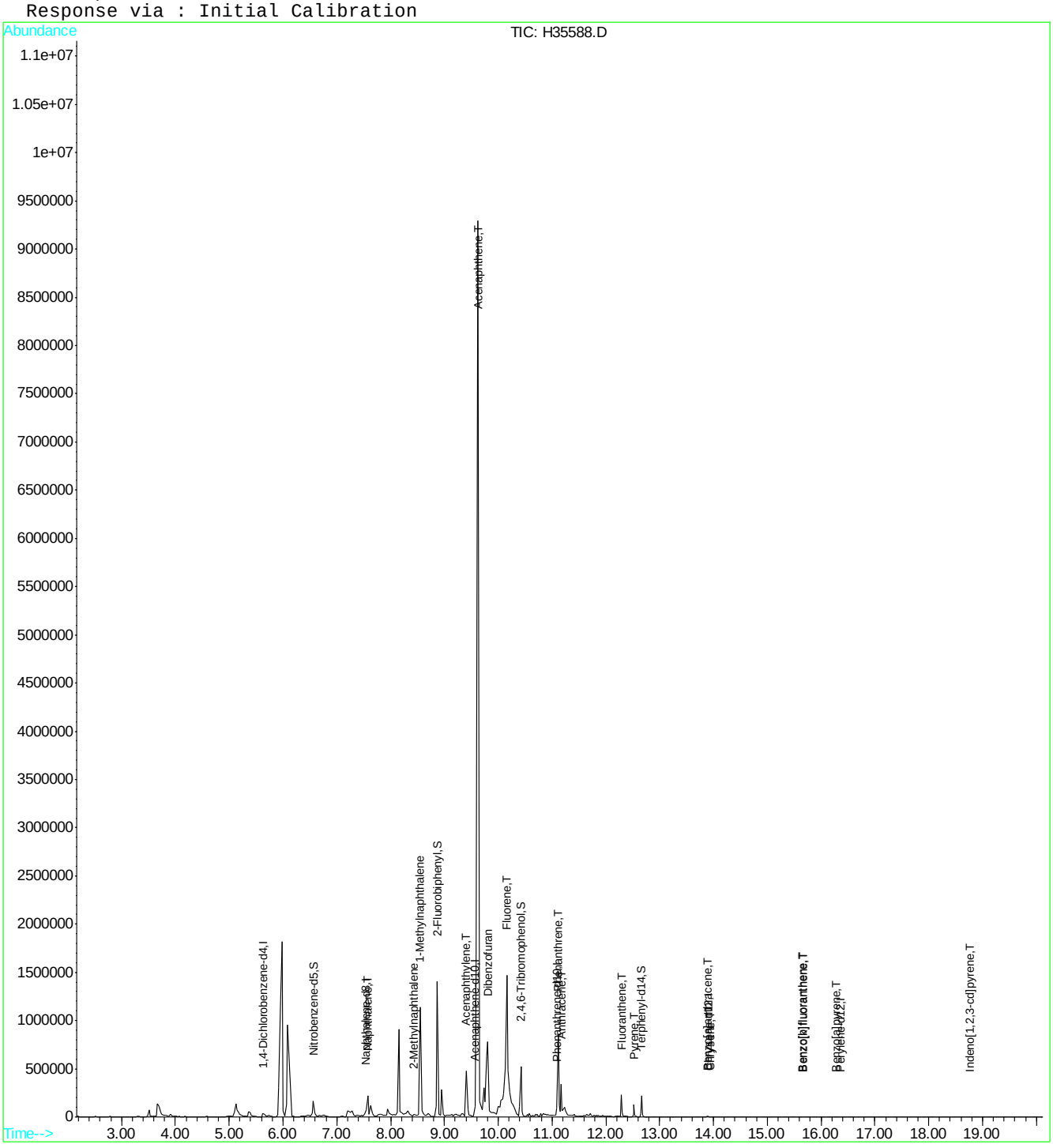
							Qvalue
6) Naphthalene	7.57	128	278074	9.43	ppb		98
7) 2-Methylnaphthalene	8.44	142	11868	0.68	ppb	#	50
8) 1-Methylnaphthalene	8.55	142	1135184	34.65	ppb	#	80
11) Acenaphthylene	9.41	152	643174	14.40	ppb		94
12) Acenaphthene	9.62	153	7088996	245.45	ppb		93
13) Dibenzofuran	9.81	168	1145051	42.67	ppb	#	59
14) Fluorene	10.16	166	1212403	88.53	ppb		80
18) Phenanthrene	11.11	178	741220	19.69	ppb		90
19) Anthracene	11.17	178	383729	8.79	ppb	#	91
20) Fluoranthene	12.29	202	248860	10.66	ppb		95
22) Pyrene	12.53	202	153017	8.59	ppb		96
24) Benzo[a]anthracene	13.88	228	2096m	0.84	ppb		
25) Chrysene	13.94	228	1511m	0.31	ppb		
27) Benzo[b]fluoranthene	15.66	252	380m	0.38	ppb		
28) Benzo[k]fluoranthene	15.67	252	210m	0.12	ppb		
29) Benzo[a]pyrene	16.28	252	466	0.42	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.77	276	119	0.18	ppb		83

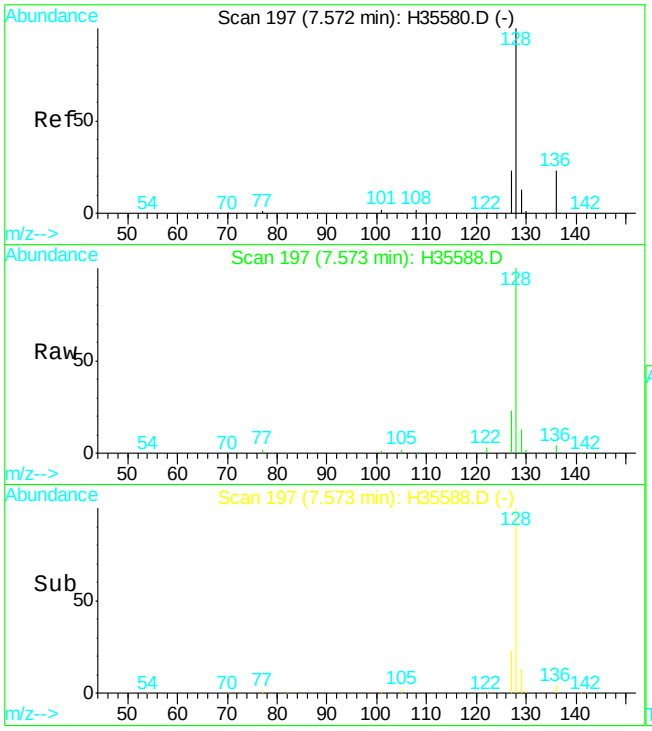
(#) = qualifier out of range (m) = manual integration
H35588.D H10239SP.M Fri Oct 23 16:37:05 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Initial Calibration

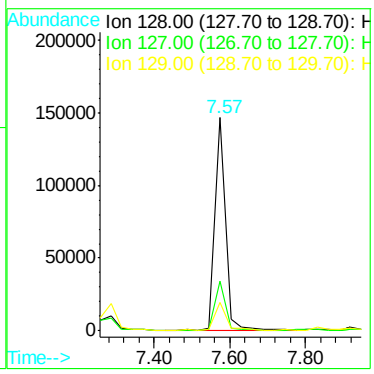


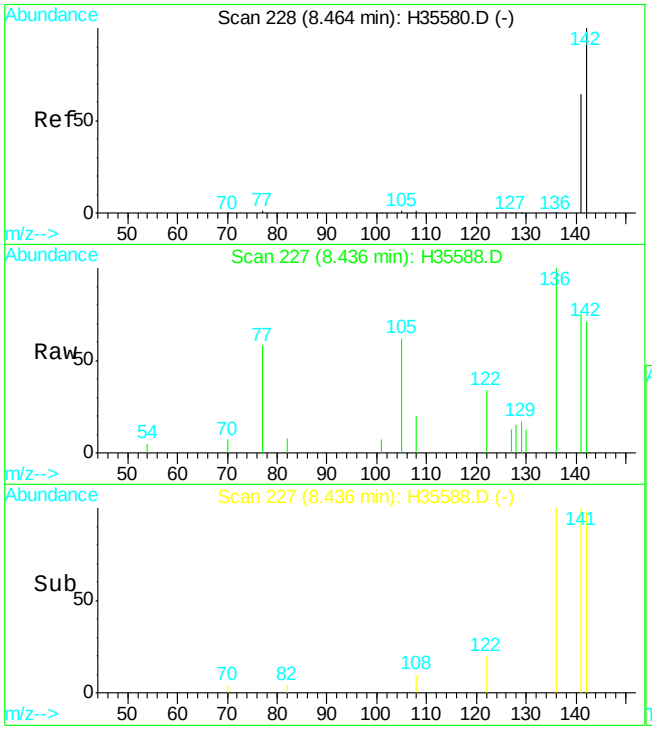


#6
Naphthalene
Concen: 9.43 ppb
RT: 7.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:128 Resp: 278074

Ion	Ratio	Lower	Upper
128	100		
127	22.9	15.3	28.5
129	13.2	8.5	15.9

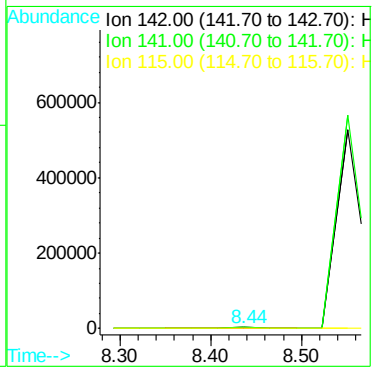


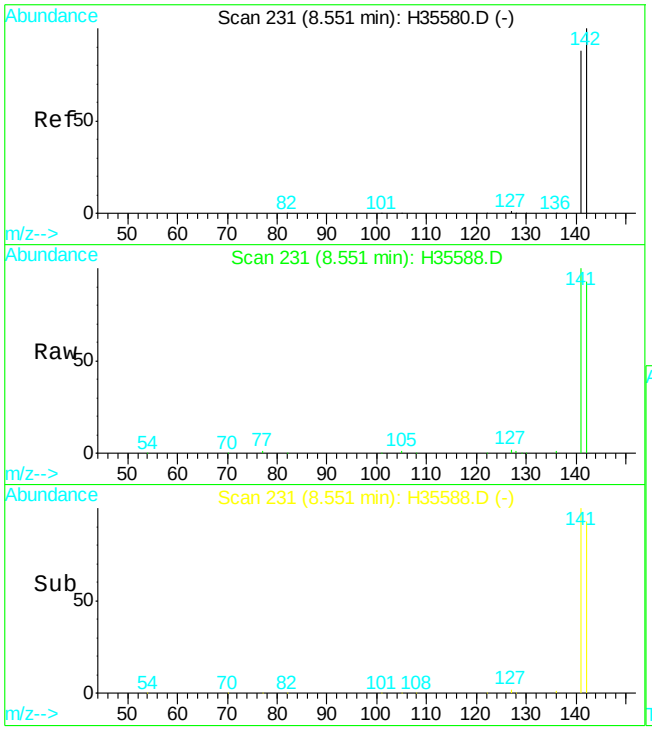


#7
2-Methylnaphthalene
Concen: 0.68 ppb
RT: 8.44 min Scan# 227
Delta R.T. -0.03 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:142 Resp: 11868

Ion	Ratio	Lower	Upper
142	100		
141	85.3	104.0	193.1#
115	0.0	0.0	0.0

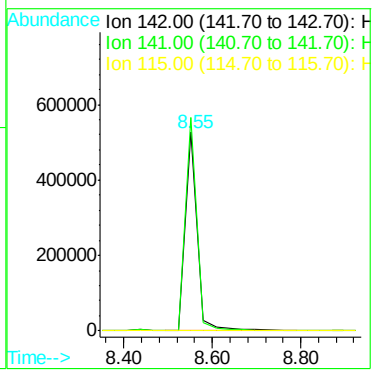


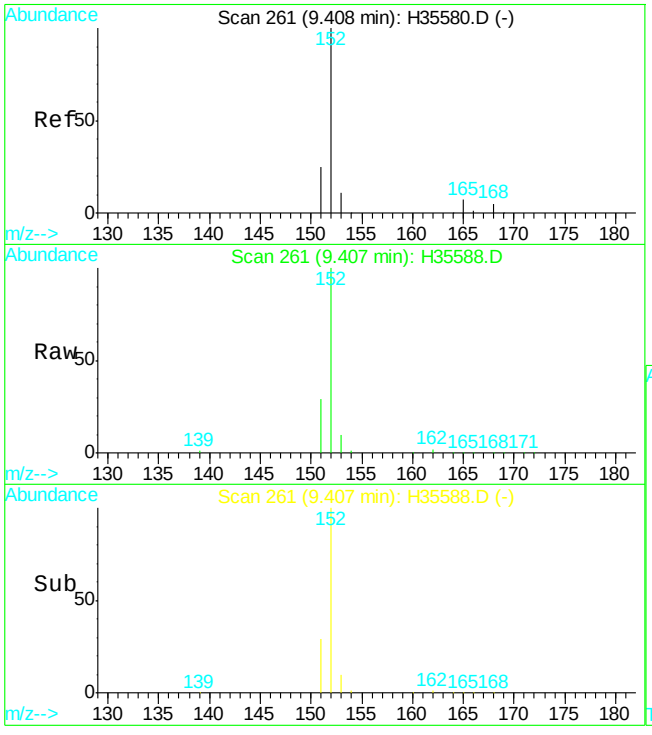


#8
1-Methylnaphthalene
Concen: 34.65 ppb
RT: 8.55 min Scan# 231
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:142 Resp: 1135184

Ion	Ratio	Lower	Upper
142	100		
141	104.7	60.5	112.5
115	0.0	0.0	0.0

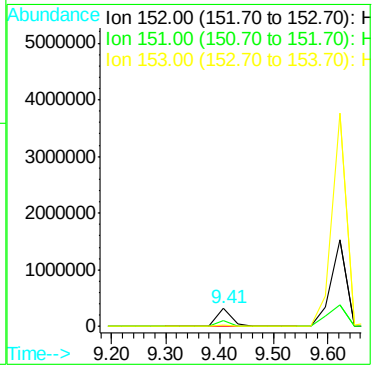


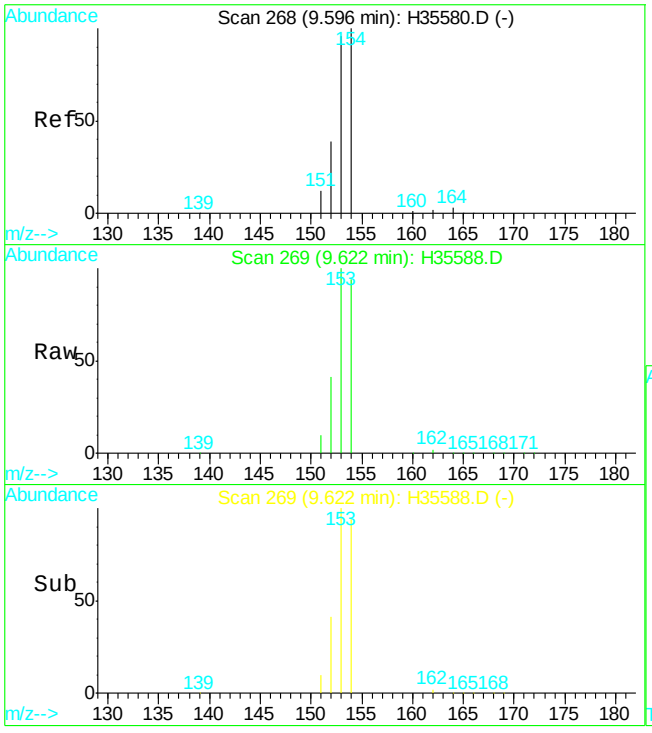


#11
Acenaphthylene
Concen: 14.40 ppb
RT: 9.41 min Scan# 261
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:152 Resp: 643174

Ion	Ratio	Lower	Upper
152	100		
151	29.3	17.8	33.0
153	10.0	7.4	13.8

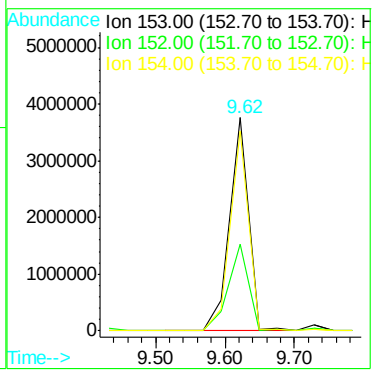


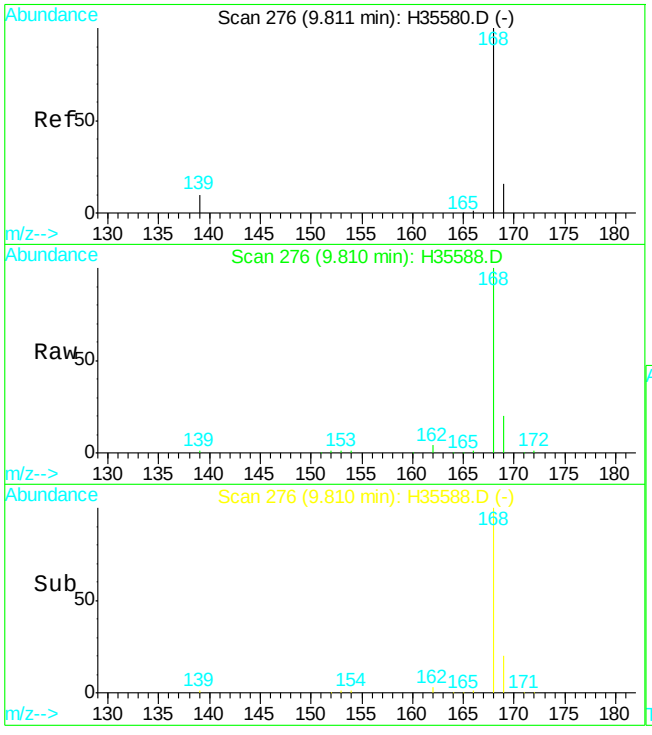


#12
Acenaphthene
Concen: 245.45 ppb
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:153 Resp: 7088996

Ion	Ratio	Lower	Upper
153	100		
152	40.8	28.7	53.3
154	93.8	72.9	135.5

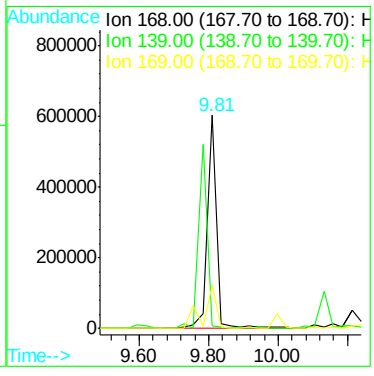


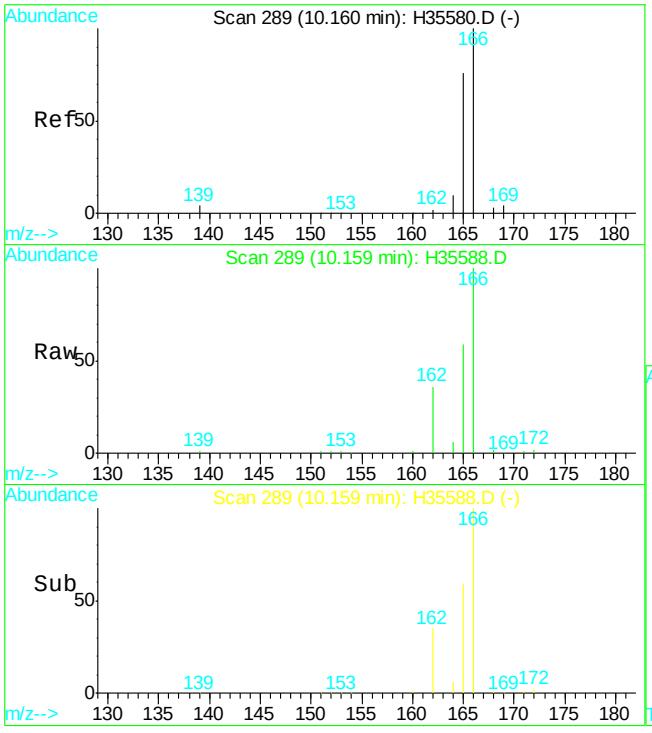


#13
Dibenzofuran
Concen: 42.67 ppb
RT: 9.81 min Scan# 276
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:168 Resp: 1145051

Ion	Ratio	Lower	Upper
168	100		
139	76.9	33.7	62.5#
169	27.6	9.8	18.2#

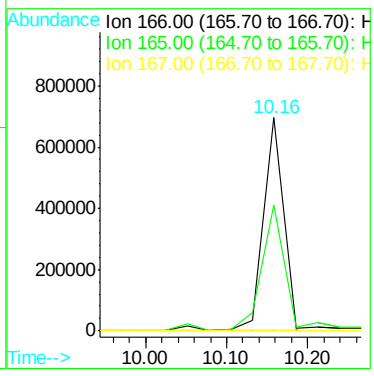


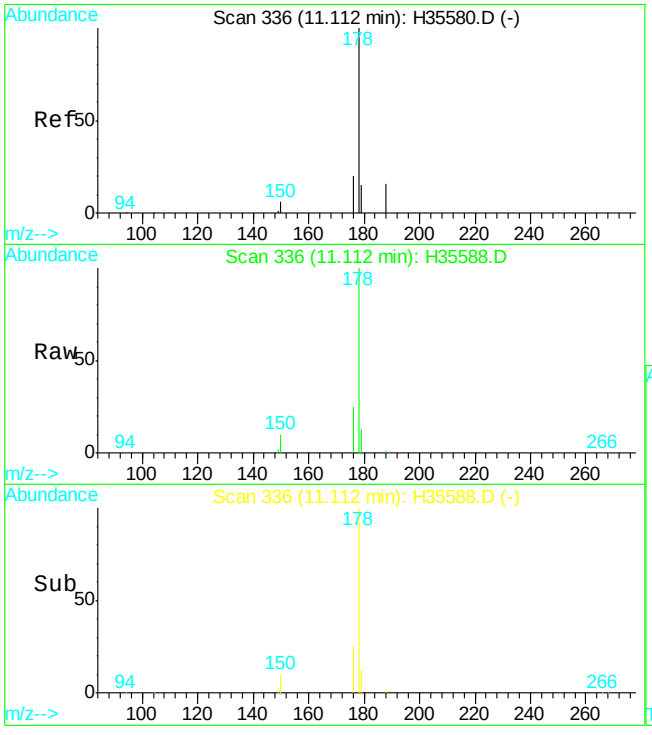


#14
Fluorene
Concen: 88.53 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:166 Resp: 1212403

Ion	Ratio	Lower	Upper
166	100		
165	58.3	53.1	98.7
167	0.0	0.0	0.0

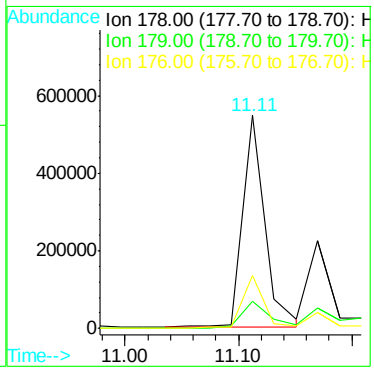


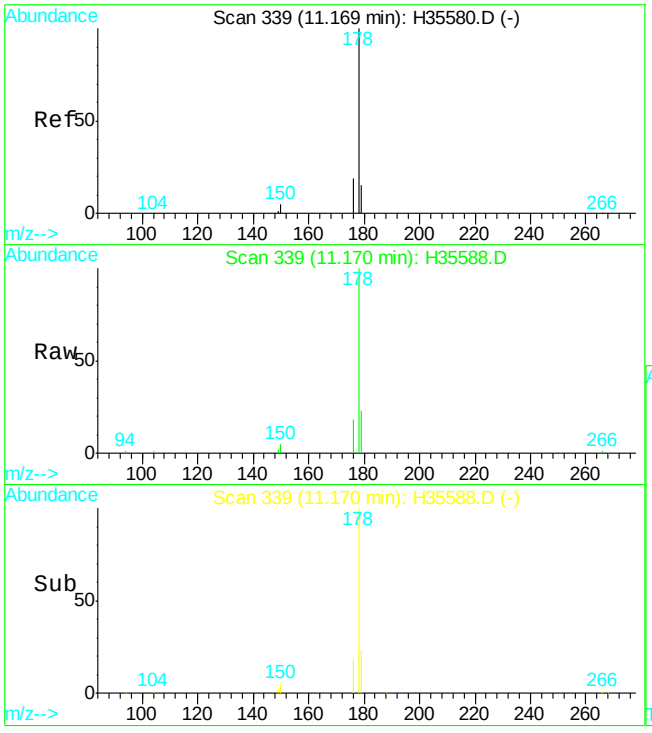


#18
Phenanthrene
Concen: 19.69 ppb
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:178 Resp: 741220

Ion	Ratio	Lower	Upper
178	100		
179	12.0	10.6	19.6
176	24.9	13.7	25.5

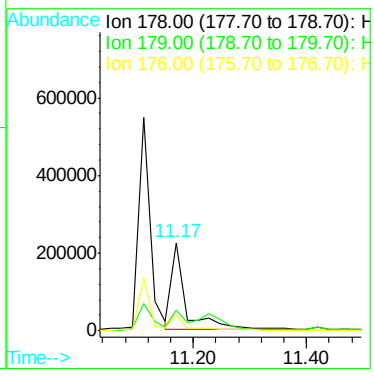


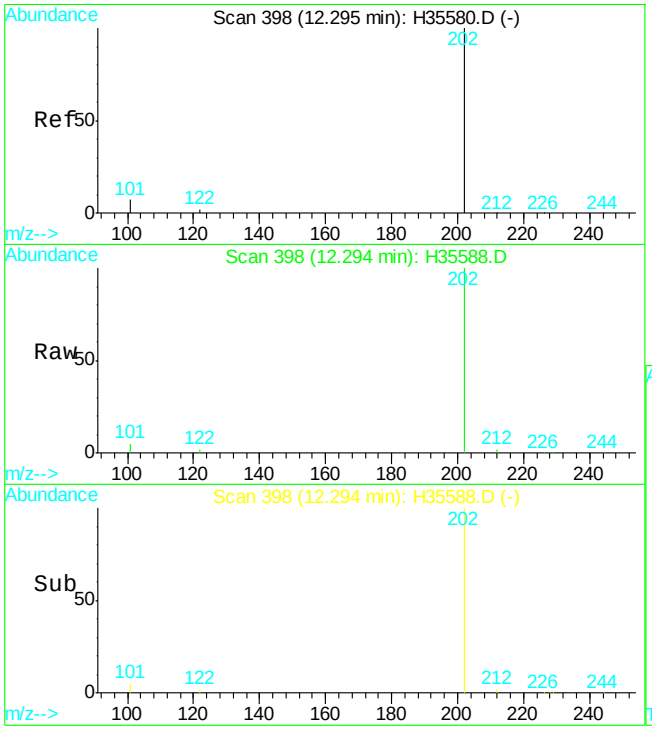


#19
Anthracene
Concen: 8.79 ppb
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:178 Resp: 383729

Ion	Ratio	Lower	Upper
178	100		
179	21.3	10.6	19.6#
176	16.9	13.3	24.7

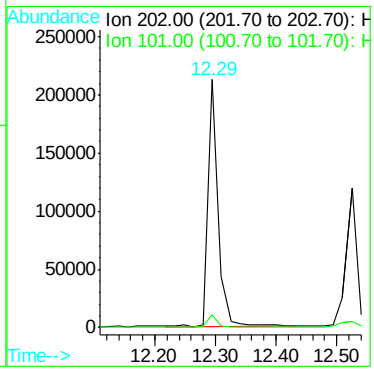




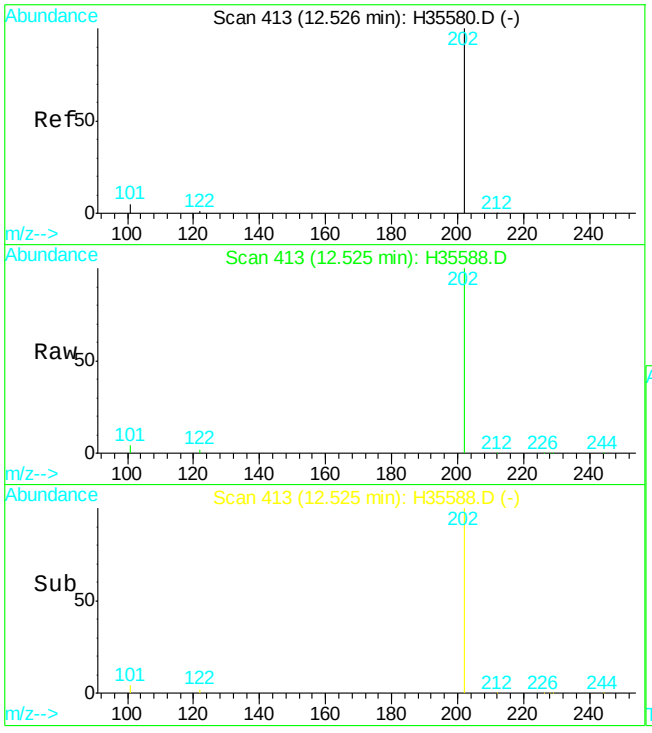
#20
Fluoranthene
Concen: 10.66 ppb
RT: 12.29 min Scan# 398
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:202 Resp: 248860

Ion	Ratio	Lower	Upper
202	100		
101	5.0	4.6	8.6



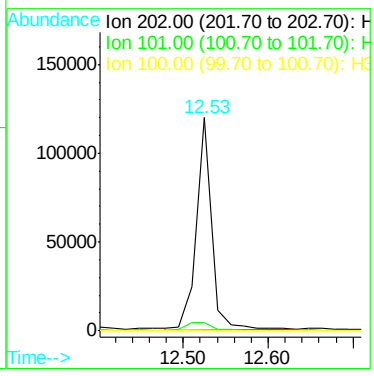
8.1.41
8

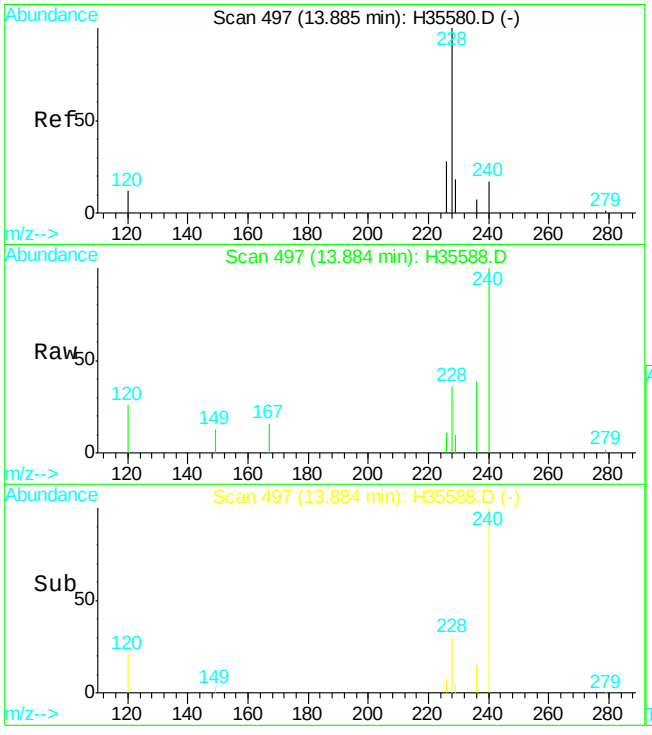


#22
Pyrene
Concen: 8.59 ppb
RT: 12.53 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:202 Resp: 153017

Ion	Ratio	Lower	Upper
202	100		
101	3.7	3.5	6.5
100	0.0	0.0	0.0

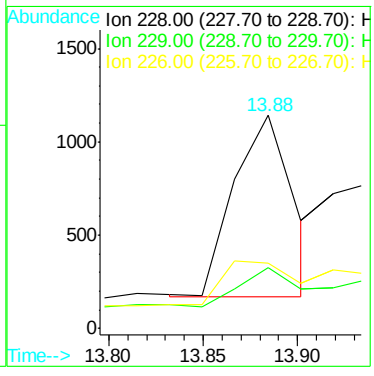


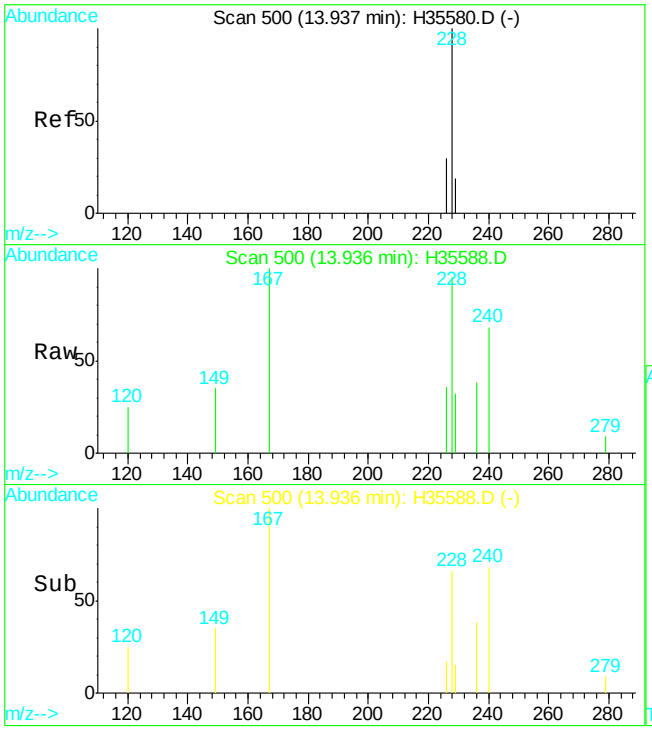


#24
Benzo[a]anthracene
Concen: 0.84 ppb m
RT: 13.88 min Scan# 497
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:228 Resp: 2096

Ion	Ratio	Lower	Upper
228	100		
229	28.6	14.4	26.7#
226	30.5	21.3	39.6

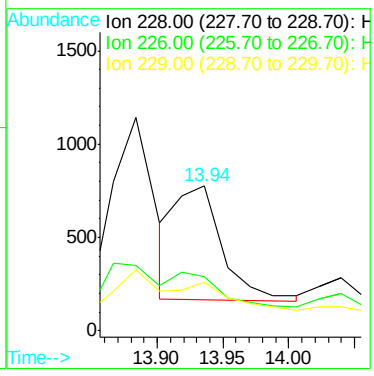


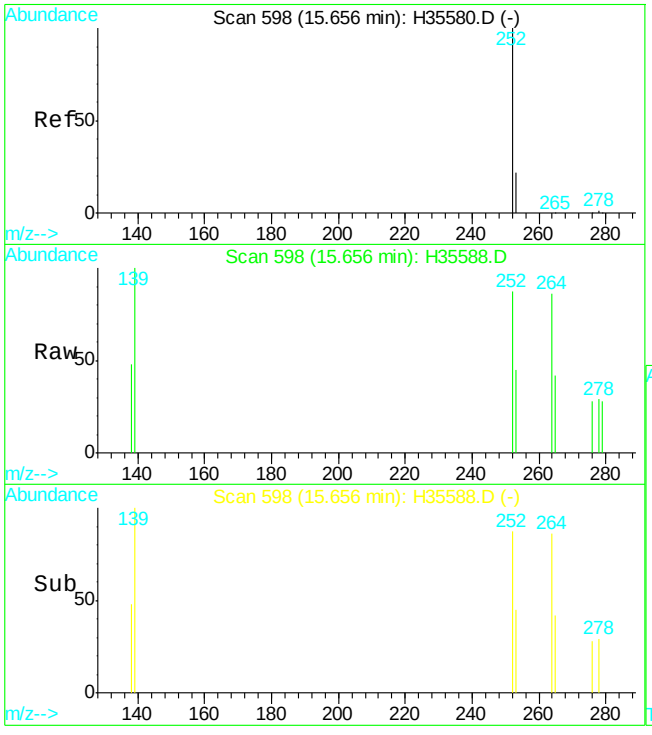


#25
Chrysene
Concen: 0.31 ppb m
RT: 13.94 min Scan# 500
Delta R.T. -0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:228 Resp: 1511

Ion	Ratio	Lower	Upper
228	100		
226	37.7	21.8	40.4
229	33.7	14.8	27.6#

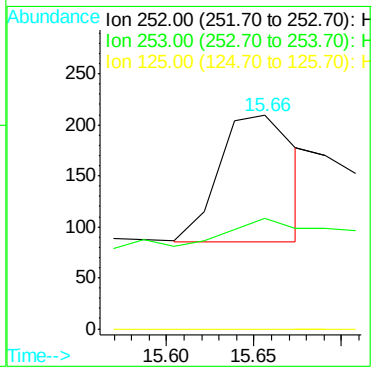


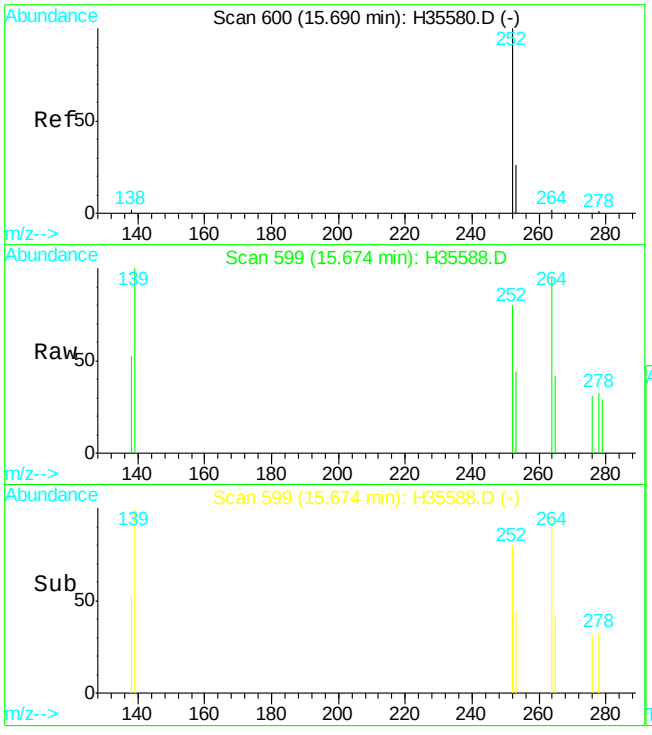


#27
Benzo[b]fluoranthene
Concen: 0.38 ppb m
RT: 15.66 min Scan# 598
Delta R.T. 0.00 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:252 Resp: 380

Ion	Ratio	Lower	Upper
252	100		
253	51.7	19.5	36.1#
125	0.0	0.0	0.0

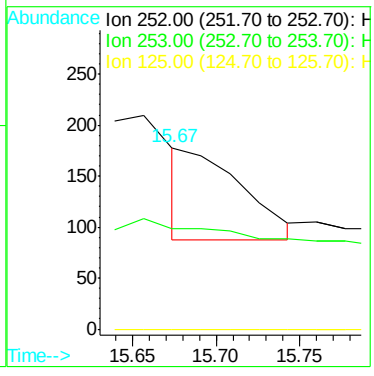


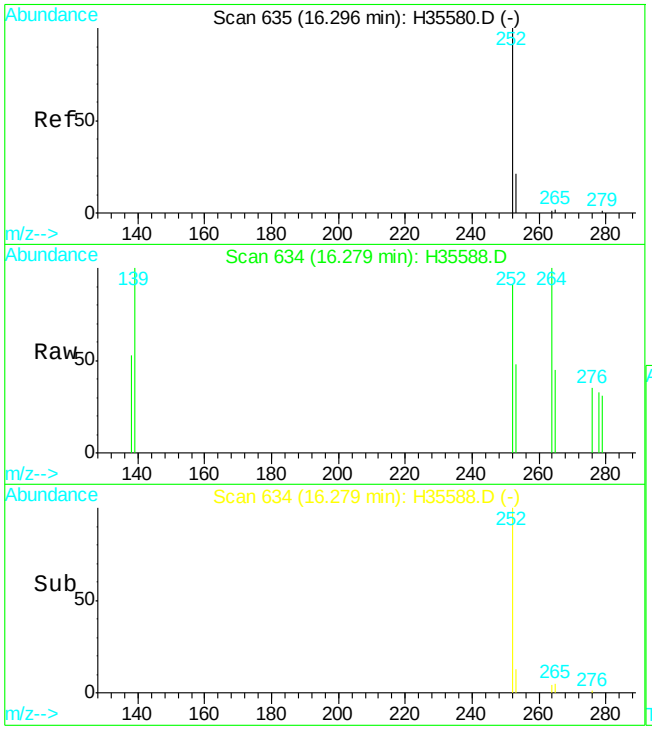


#28
Benzo[k]fluoranthene
Concen: 0.12 ppb m
RT: 15.67 min Scan# 599
Delta R.T. -0.02 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:252 Resp: 210

Ion	Ratio	Lower	Upper
252	100		
253	55.1	18.3	33.9#
125	0.0	0.0	0.0

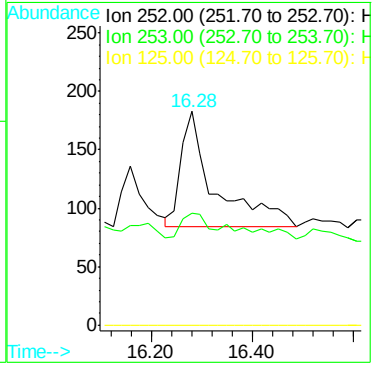


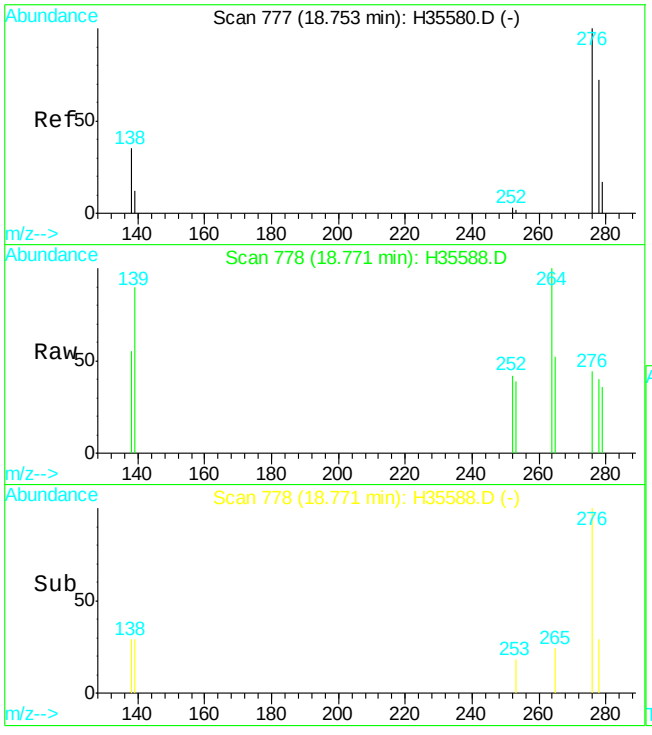


#29
Benzo[a]pyrene
Concen: 0.42 ppb
RT: 16.28 min Scan# 634
Delta R.T. -0.02 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:252 Resp: 466

Ion	Ratio	Lower	Upper
252	100		
253	22.6	14.8	27.4
125	0.0	0.0	0.0

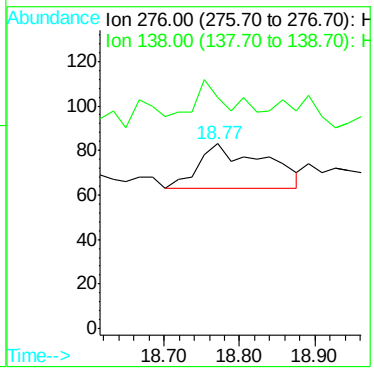




#30
Indeno[1,2,3-cd]pyrene
Concen: 0.18 ppb
RT: 18.77 min Scan# 778
Delta R.T. 0.02 min
Lab File: H35588.D
Acq: 23 Oct 2009 3:11 pm

Tgt Ion:276 Resp: 119

Ion	Ratio	Lower	Upper
276	100		
138	45.5	24.9	46.3



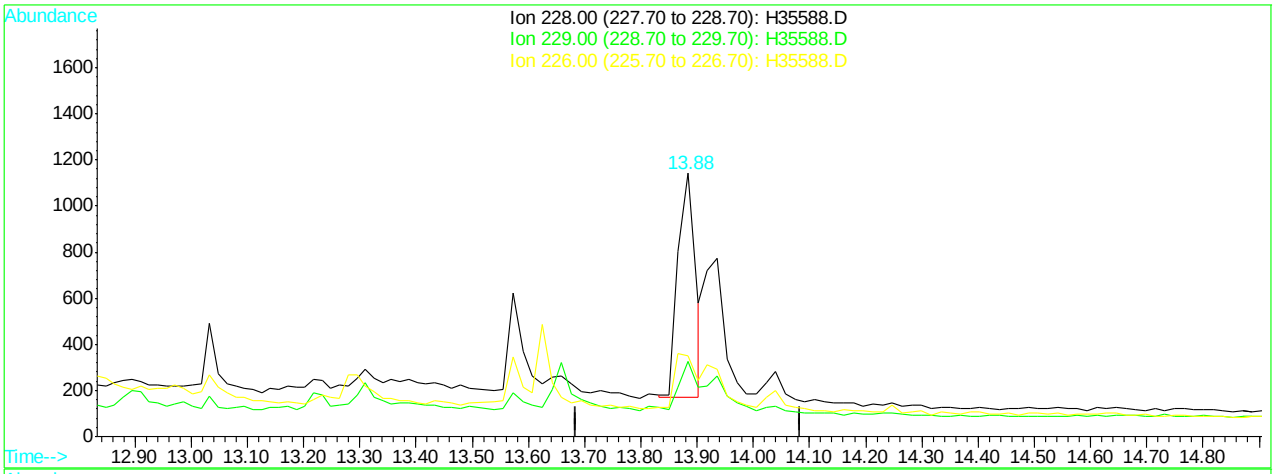
8.1.41

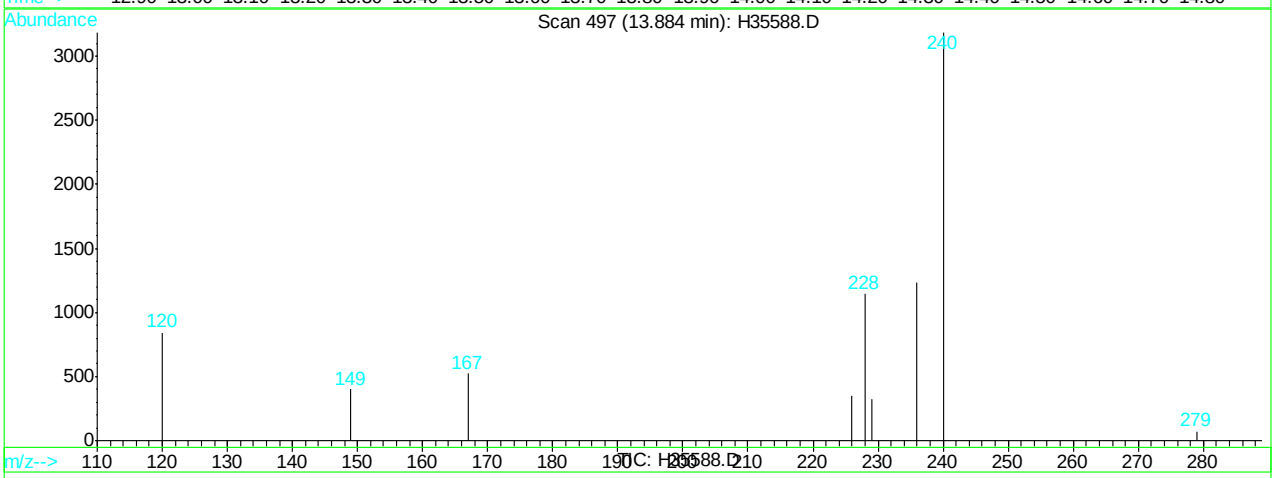
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 0.84ppb m

response 2096

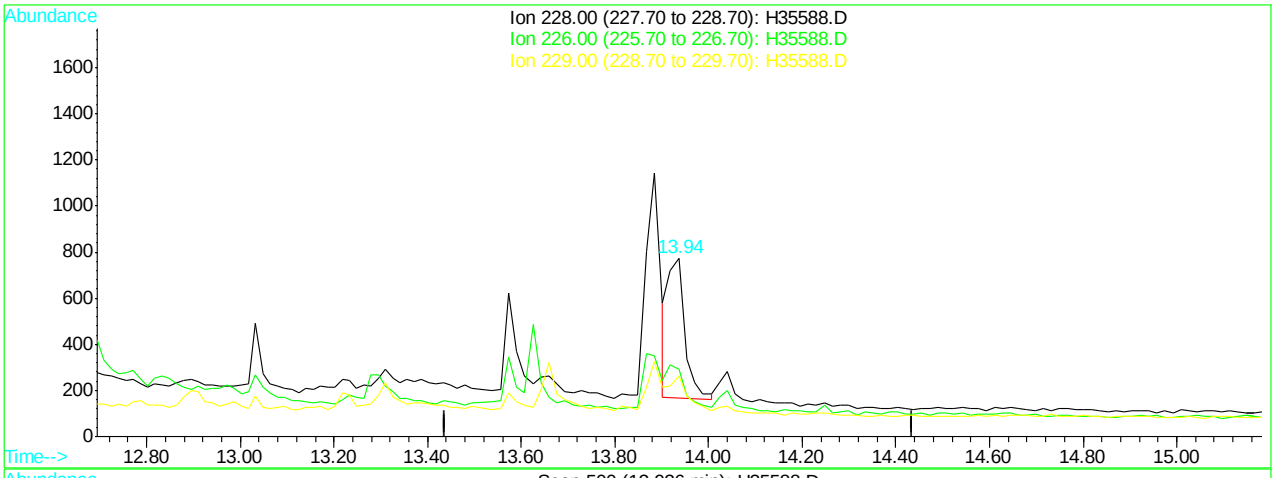
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	28.63#
226.00	30.50	30.47
0.00	0.00	0.00

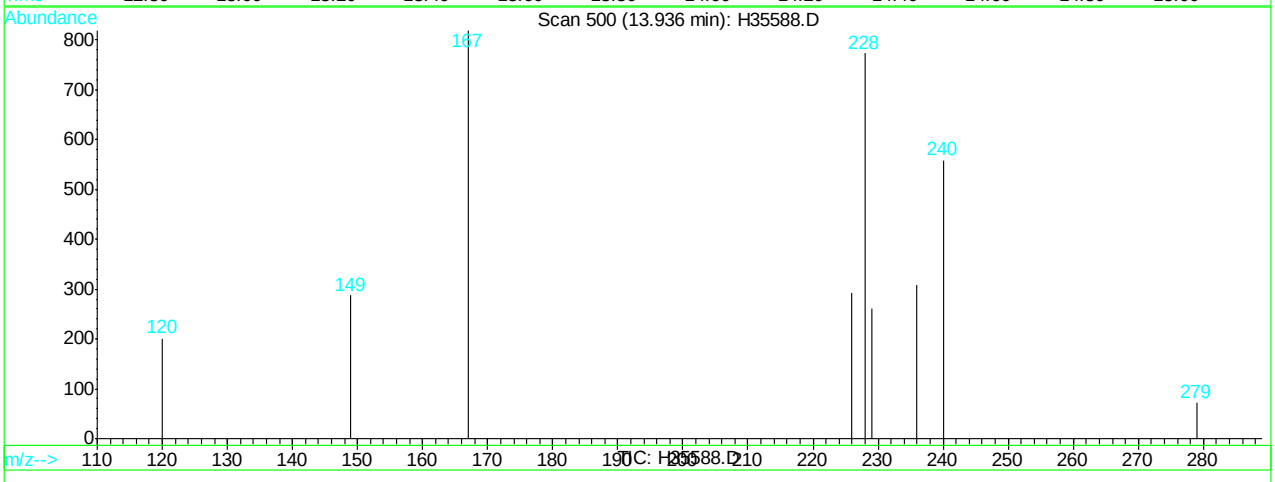
H35588.D H10239SP.M Fri Oct 23 16:37:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.31ppb m

response 1511

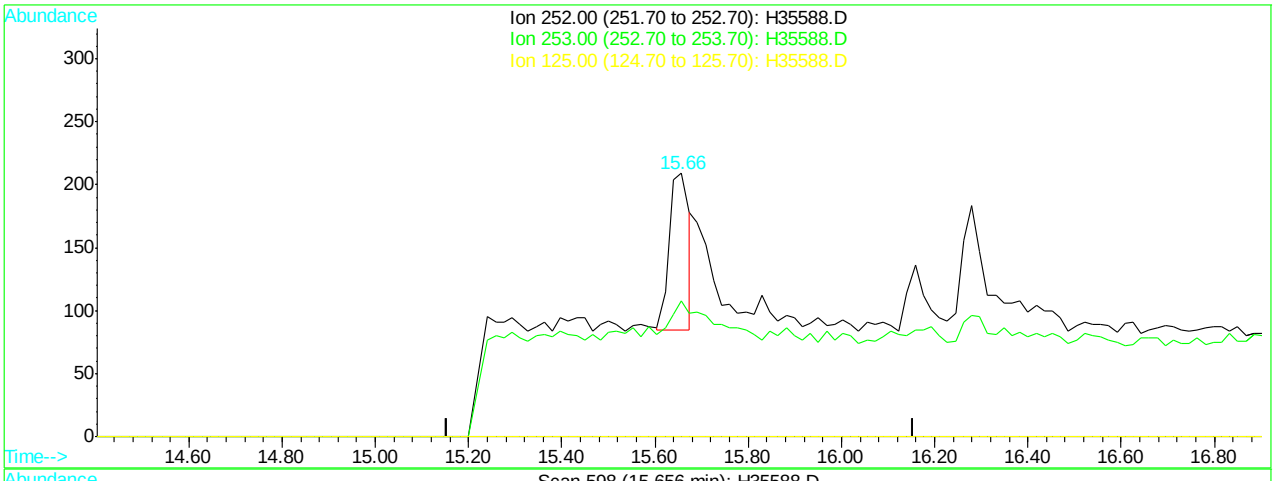
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	37.73
229.00	21.20	33.72#
0.00	0.00	0.00

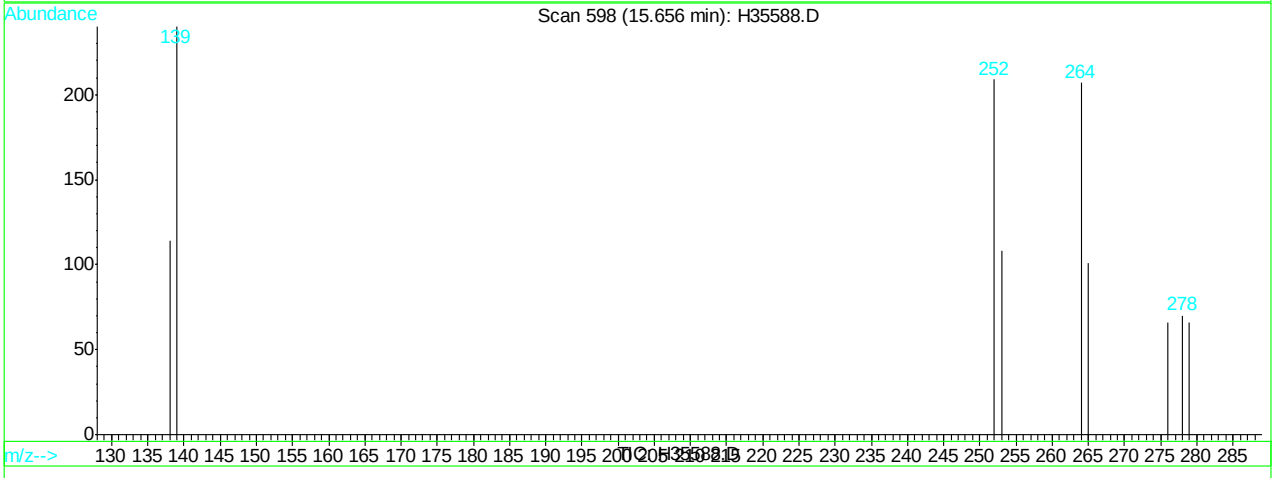
H35588.D H10239SP.M Fri Oct 23 16:37:20 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.38ppb m

response 380

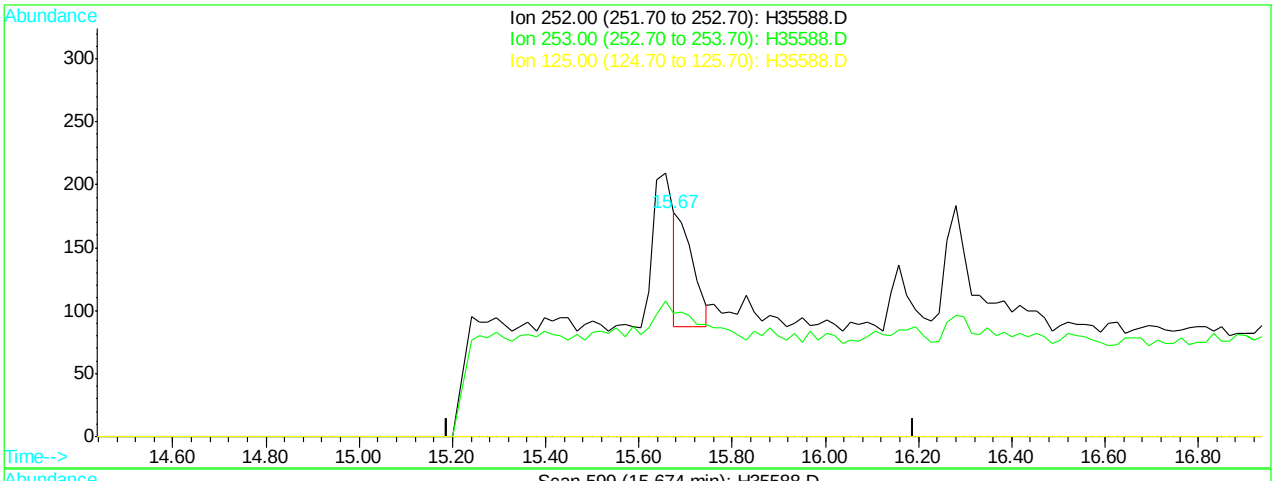
Ion	Exp%	Act%
252.00	100	100
253.00	27.80	51.67#
125.00	0.00	0.00
0.00	0.00	0.00

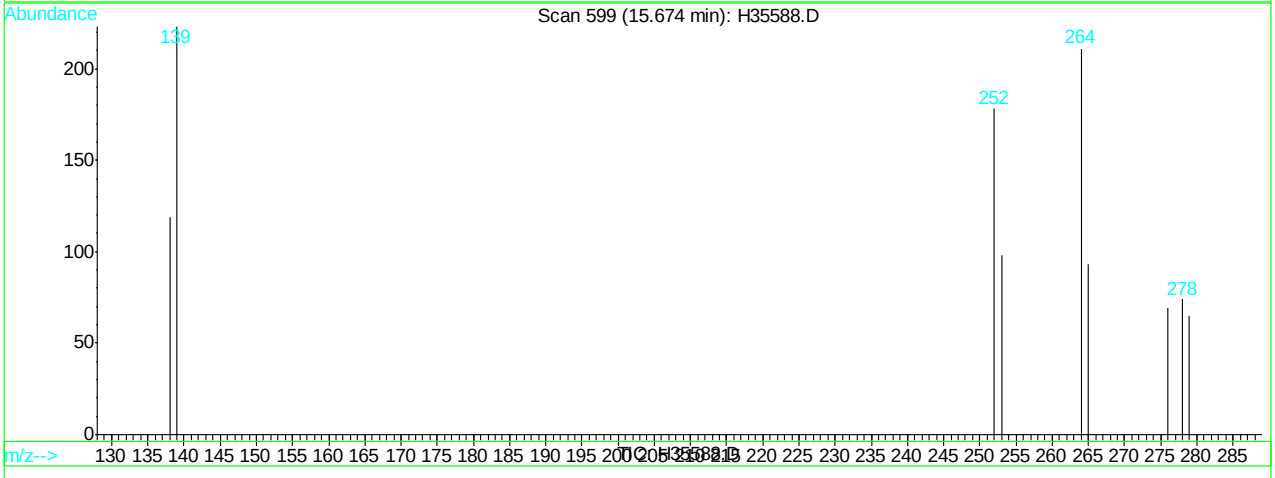
H35588.D H10239SP.M Fri Oct 23 16:37:23 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35588.D Vial: 10
Acq On : 23 Oct 2009 3:11 pm Operator: sheilac
Sample : t39646-7 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 0.12ppb m

response 210

Ion	Exp%	Act%
252.00	100	100
253.00	26.10	55.06#
125.00	0.00	0.00
0.00	0.00	0.00

H35588.D H10239SP.M Fri Oct 23 16:37:27 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	102446	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	80744	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	71204	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	90555	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	13944	4.00	ppb	0.00
26) Perylene-d12	16.38	264	4004	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	117693	35.12	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 702.40%#			
10) 2-Fluorobiphenyl	8.87	172	1532739	35.20	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 704.00%#			
16) 2,4,6-Tribromophenol	10.40	330	329911	99.52	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 995.20%#			
23) Terphenyl-d14	12.66	244	262571	50.43	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1008.60%#			

Target Compounds

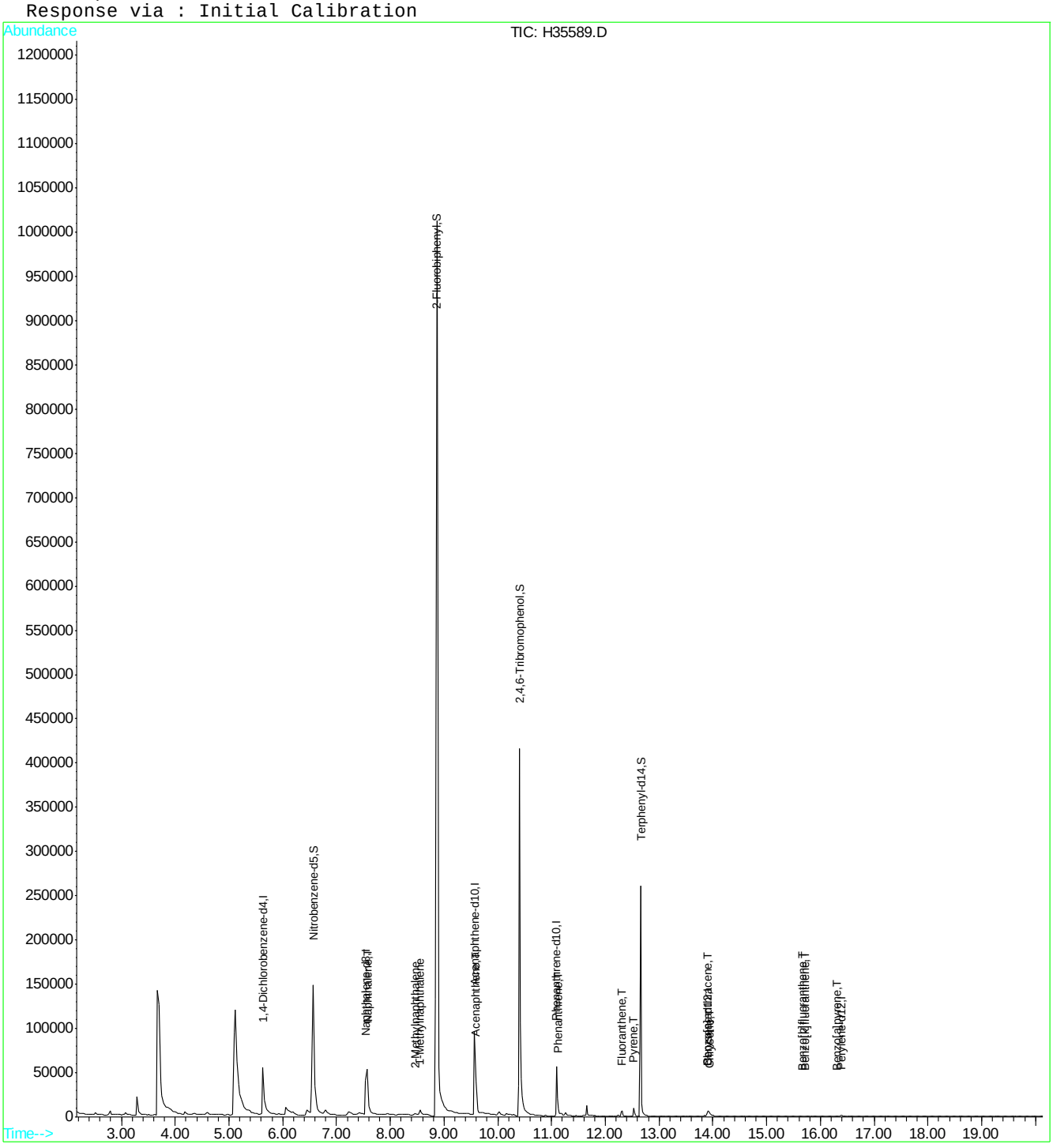
							Qvalue
6) Naphthalene	7.57	128	70643	2.61	ppb		96
7) 2-Methylnaphthalene	8.46	142	1938m	0.30	ppb		
8) 1-Methylnaphthalene	8.55	142	7930m	0.26	ppb		
12) Acenaphthene	9.60	153	23264	0.59	ppb		85
18) Phenanthrene	11.11	178	8324m	0.21	ppb		
20) Fluoranthene	12.31	202	12735	0.75	ppb	#	90
22) Pyrene	12.53	202	13910	0.61	ppb		97
24) Benzo[a]anthracene	13.90	228	1142m	0.37	ppb		
25) Chrysene	13.94	228	1881m	0.32	ppb		
27) Benzo[b]fluoranthene	15.67	252	423m	0.51	ppb		
28) Benzo[k]fluoranthene	15.71	252	620m	0.41	ppb		
29) Benzo[a]pyrene	16.31	252	375m	0.37	ppb		

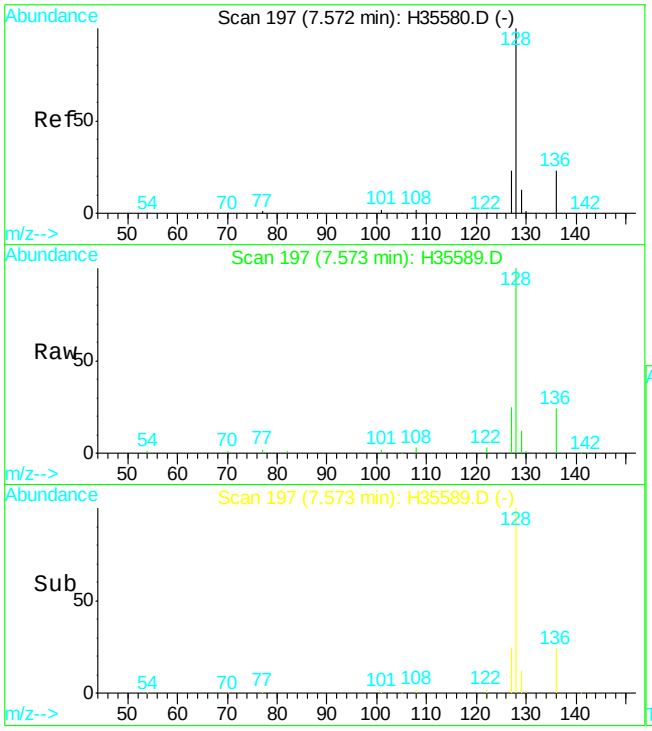
(#) = qualifier out of range (m) = manual integration
H35589.D H10239SP.M Fri Oct 23 16:28:55 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Initial Calibration

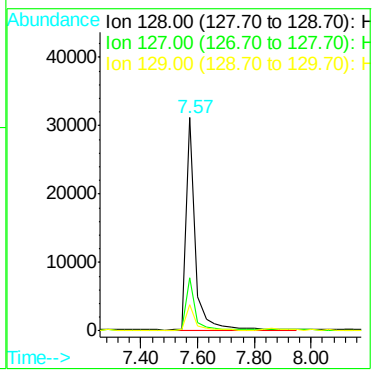


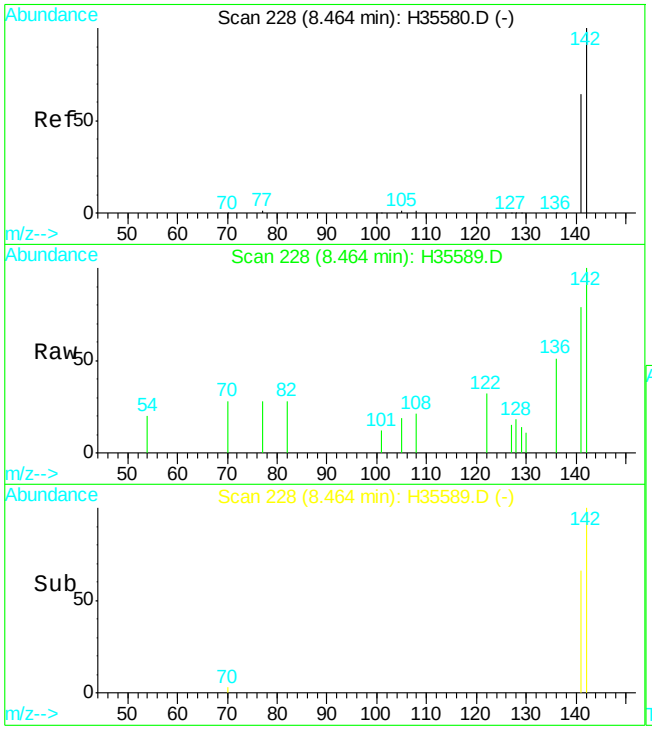


#6
Naphthalene
Concen: 2.61 ppb
RT: 7.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:128 Resp: 70643

Ion	Ratio	Lower	Upper
128	100		
127	24.4	15.3	28.5
129	12.0	8.5	15.9

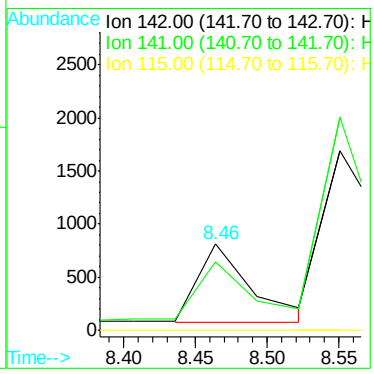


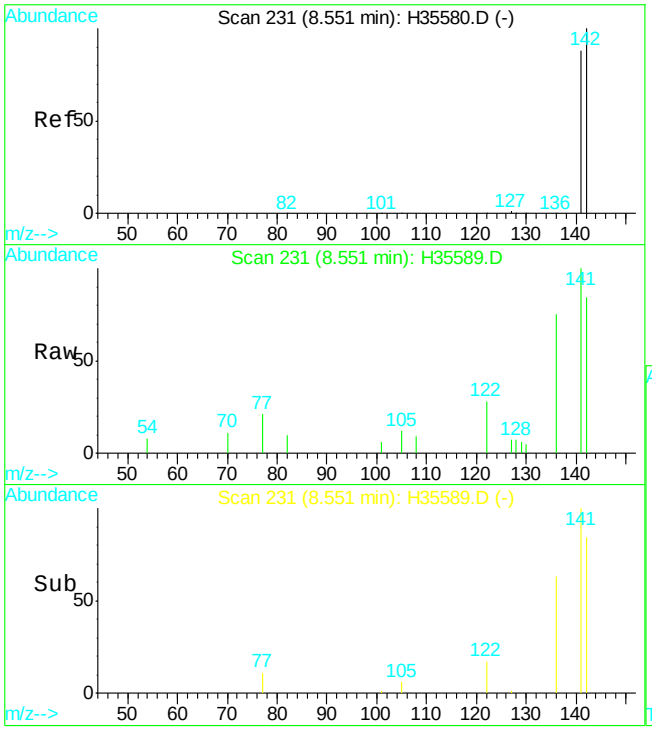


#7
2-Methylnaphthalene
Concen: 0.30 ppb m
RT: 8.46 min Scan# 228
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:142 Resp: 1938

Ion	Ratio	Lower	Upper
142	100		
141	514.1	104.0	193.1#
115	0.0	0.0	0.0

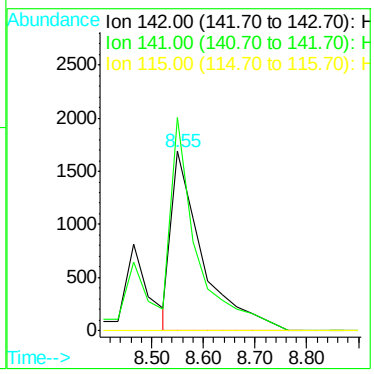


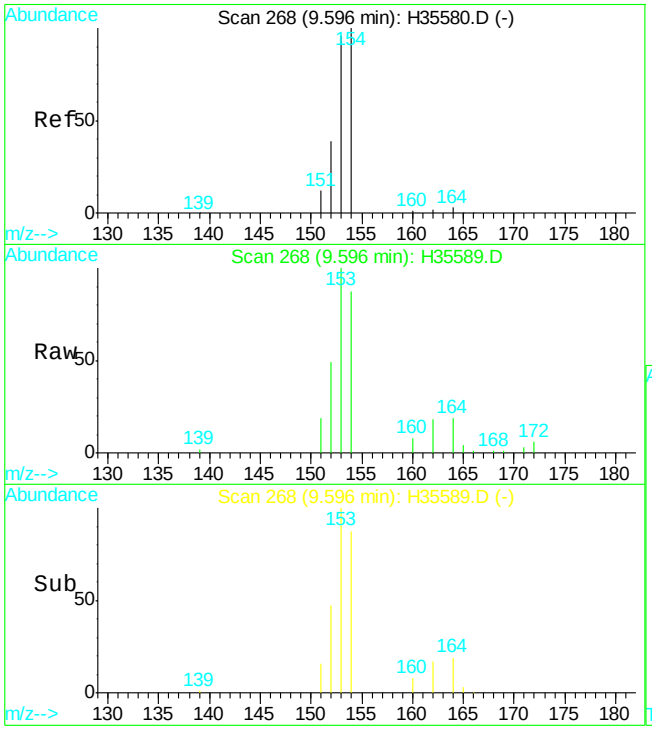


#8
1-Methylnaphthalene
Concen: 0.26 ppb m
RT: 8.55 min Scan# 231
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:142 Resp: 7930

Ion	Ratio	Lower	Upper
142	100		
141	125.6	60.5	112.5#
115	0.0	0.0	0.0

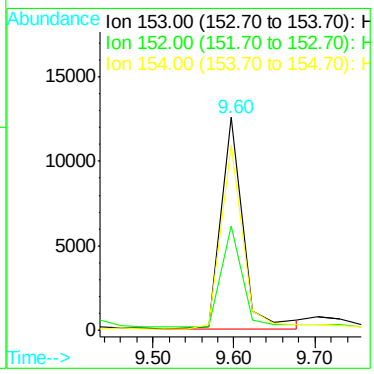




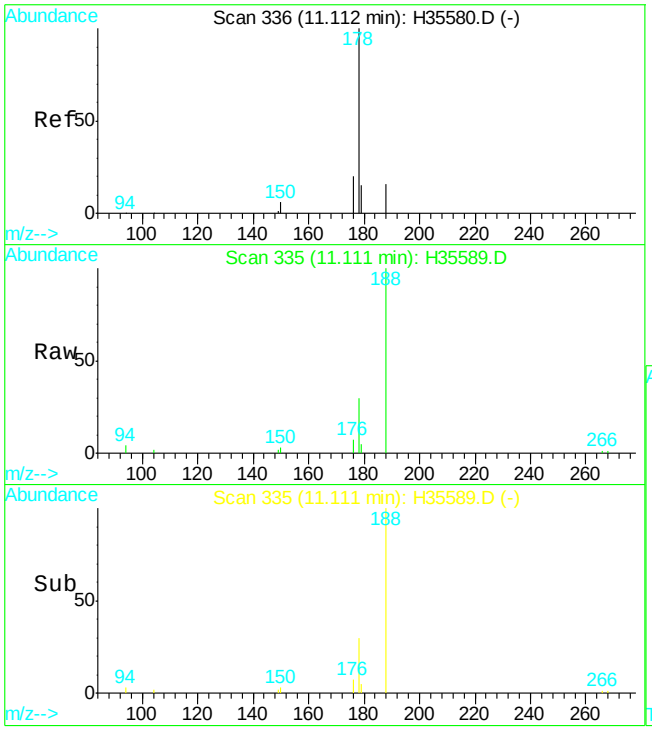
#12
Acenaphthene
Concen: 0.59 ppb
RT: 9.60 min Scan# 268
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:153 Resp: 23264

Ion	Ratio	Lower	Upper
153	100		
152	48.3	28.7	53.3
154	87.7	72.9	135.5



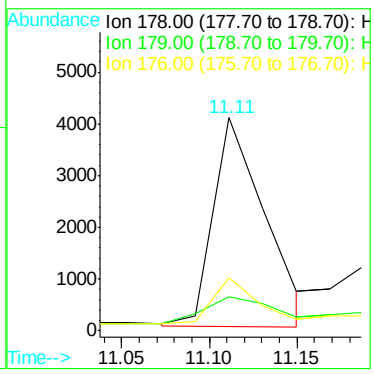
8.1.42
8

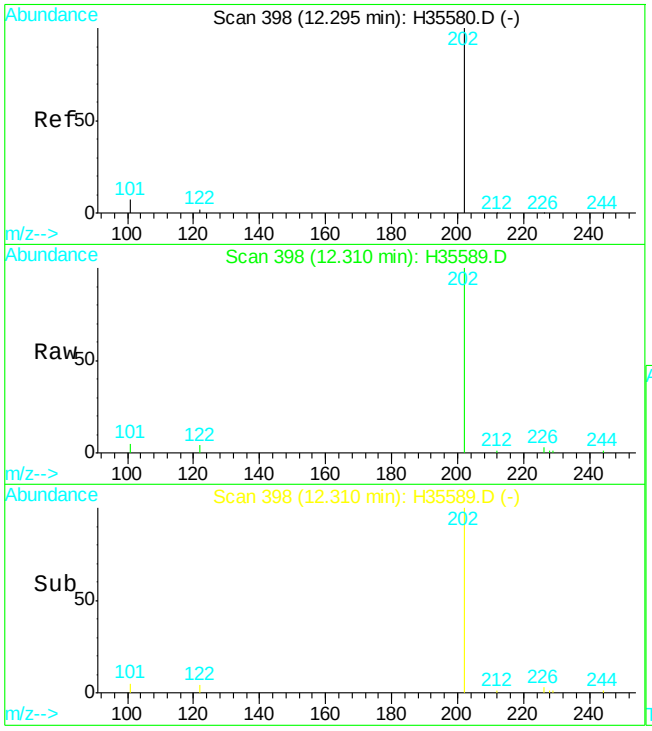


#18
Phenanthrene
Concen: 0.21 ppb m
RT: 11.11 min Scan# 335
Delta R.T. -0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:178 Resp: 8324

Ion	Ratio	Lower	Upper
178	100		
179	15.8	10.6	19.6
176	25.0	13.7	25.5

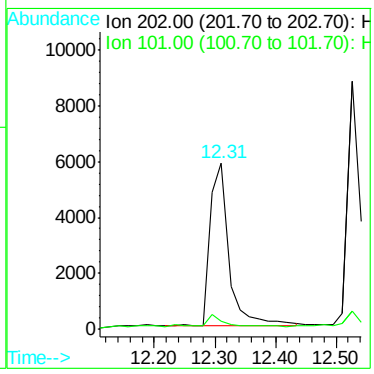


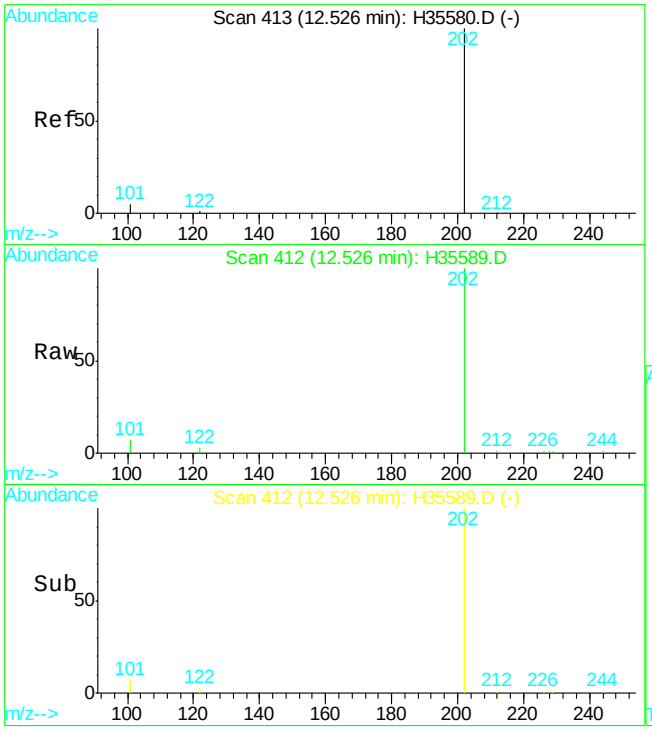


#20
Fluoranthene
Concen: 0.75 ppb
RT: 12.31 min Scan# 398
Delta R.T. 0.02 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:202 Resp: 12735

Ion	Ratio	Lower	Upper
202	100		
101	3.3	4.6	8.6#

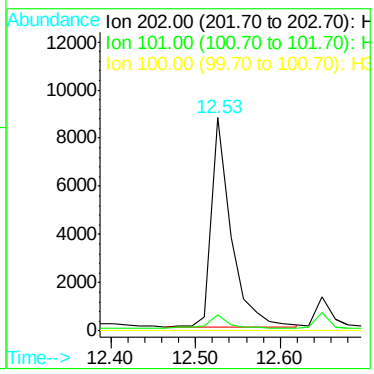


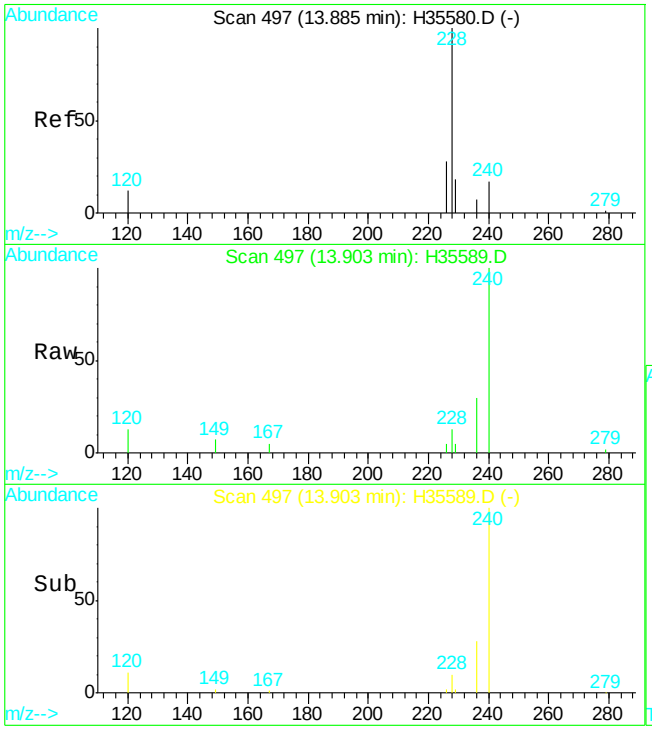


#22
Pyrene
Concen: 0.61 ppb
RT: 12.53 min Scan# 412
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:202 Resp: 13910

Ion	Ratio	Lower	Upper
202	100		
101	6.1	3.5	6.5
100	0.0	0.0	0.0

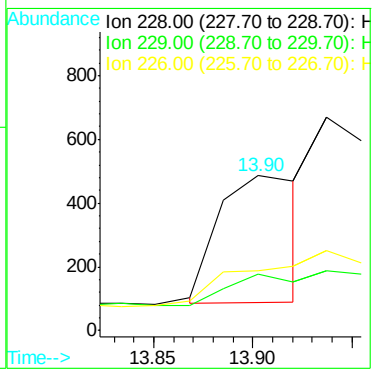




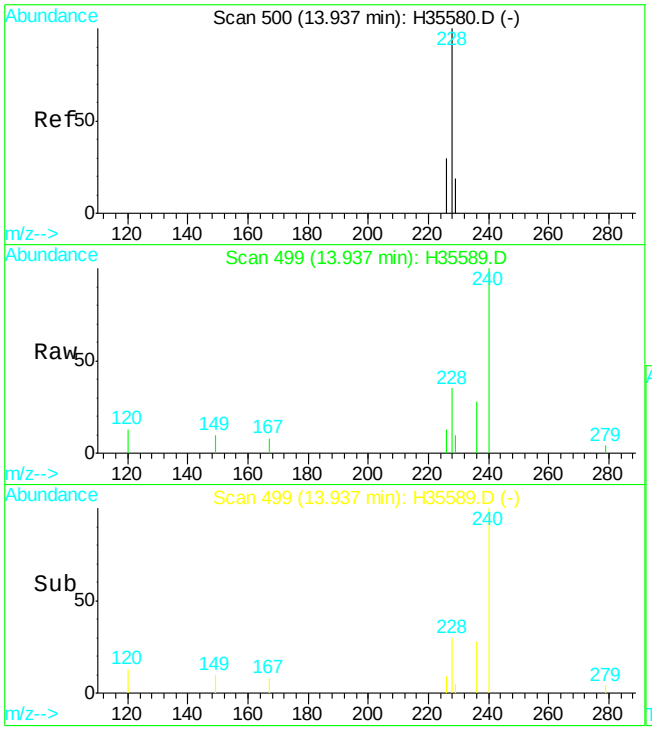
#24
Benzo[a]anthracene
Concen: 0.37 ppb m
RT: 13.90 min Scan# 497
Delta R.T. 0.02 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:228 Resp: 1142

Ion	Ratio	Lower	Upper
228	100		
229	36.5	14.4	26.7#
226	38.4	21.3	39.6



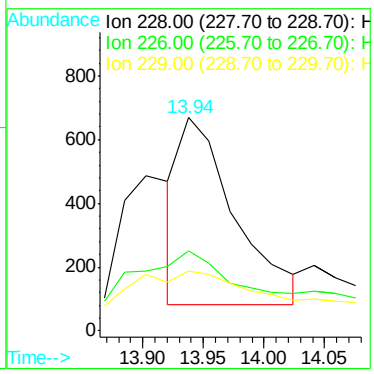
8.1.42
8

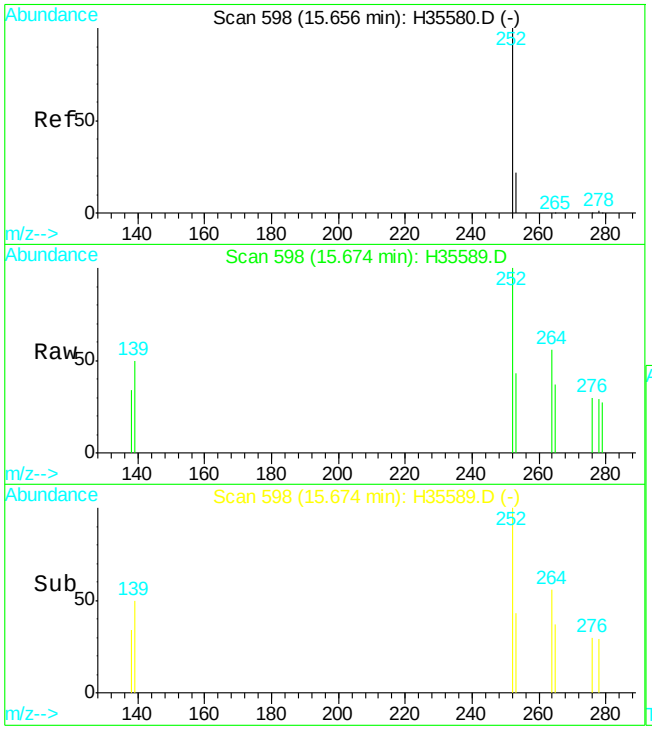


#25
Chrysene
Concen: 0.32 ppb m
RT: 13.94 min Scan# 499
Delta R.T. 0.00 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:228 Resp: 1881

Ion	Ratio	Lower	Upper
228	100		
226	37.7	21.8	40.4
229	28.3	14.8	27.6#

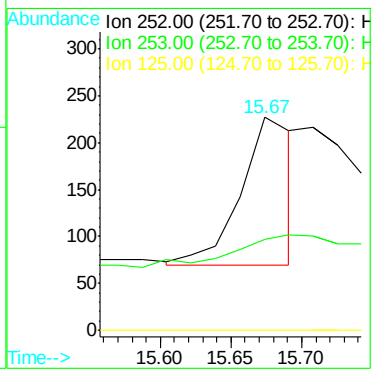


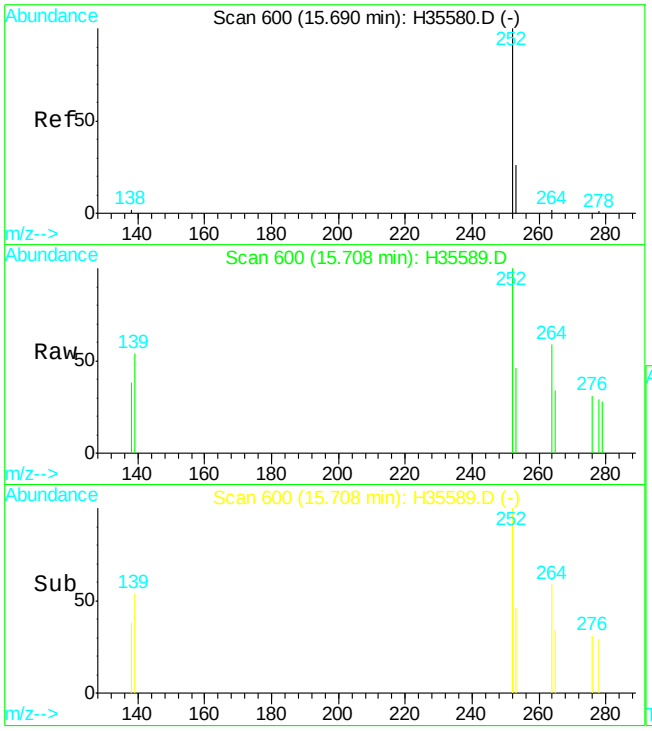


#27
Benzo[b]fluoranthene
Concen: 0.51 ppb m
RT: 15.67 min Scan# 598
Delta R.T. 0.02 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:252 Resp: 423

Ion	Ratio	Lower	Upper
252	100		
253	42.7	19.5	36.1#
125	0.0	0.0	0.0

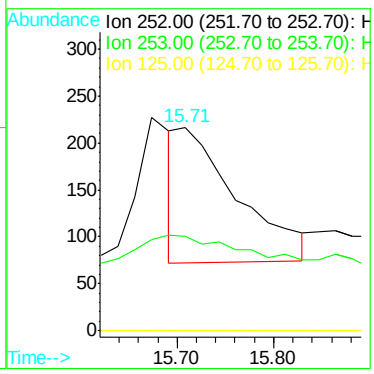


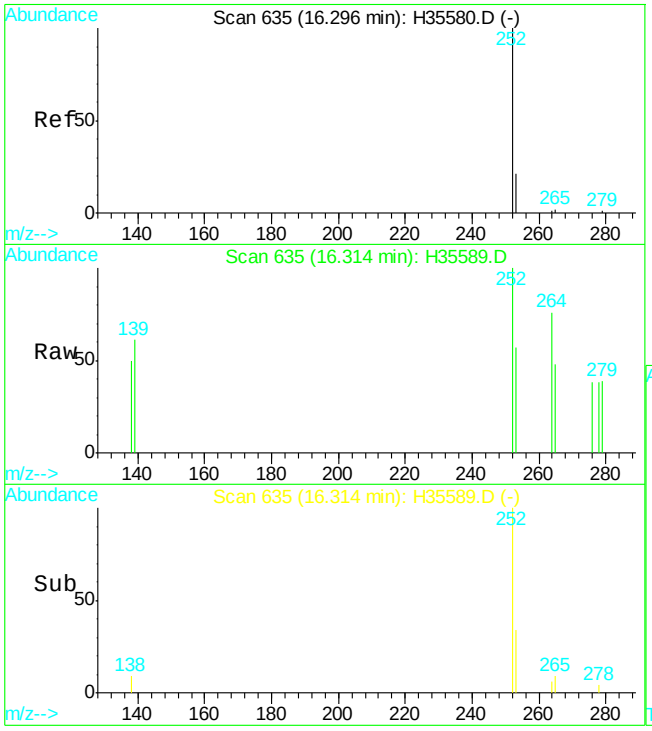


#28
Benzo[k]fluoranthene
Concen: 0.41 ppb m
RT: 15.71 min Scan# 600
Delta R.T. 0.02 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:252 Resp: 620

Ion	Ratio	Lower	Upper
252	100		
253	46.1	18.3	33.9#
125	0.0	0.0	0.0

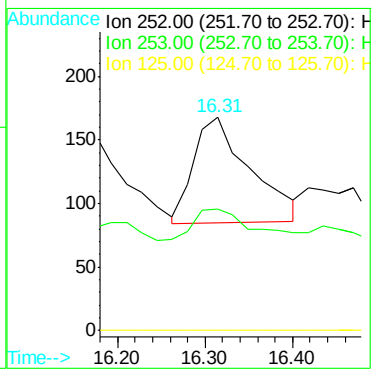




#29
Benzo[a]pyrene
Concen: 0.37 ppb m
RT: 16.31 min Scan# 635
Delta R.T. 0.02 min
Lab File: H35589.D
Acq: 23 Oct 2009 3:36 pm

Tgt Ion:252 Resp: 375

Ion	Ratio	Lower	Upper
252	100		
253	57.1	14.8	27.4#
125	0.0	0.0	0.0



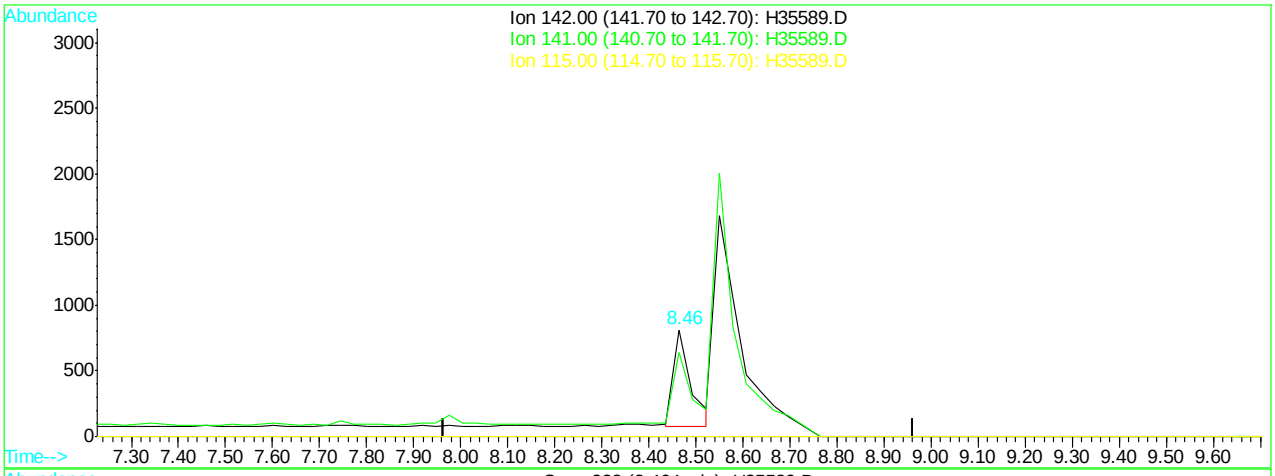
8.1.42

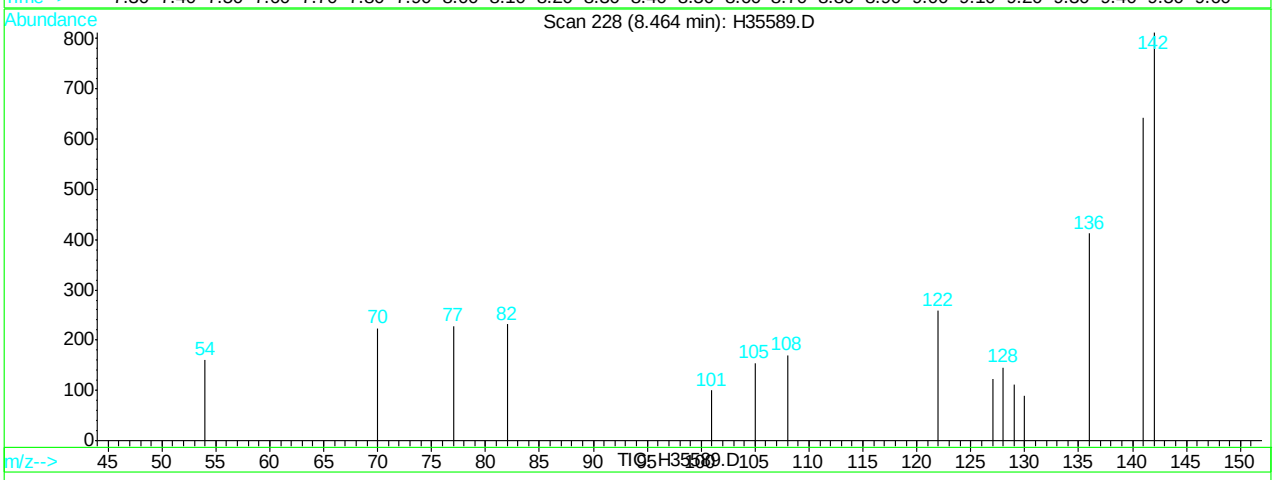
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.30ppb m

response 1938

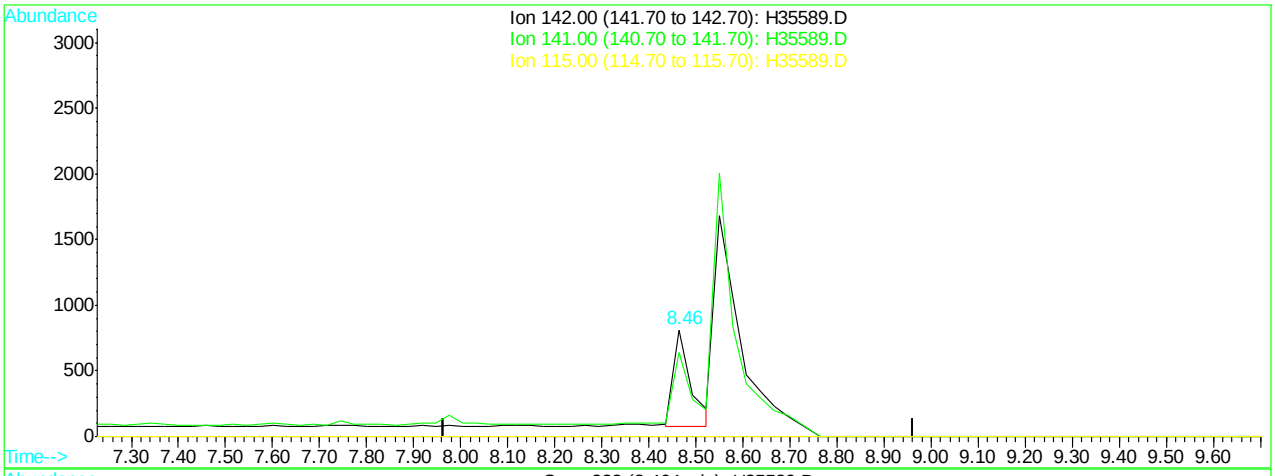
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	514.14#
115.00	0.00	0.00
0.00	0.00	0.00

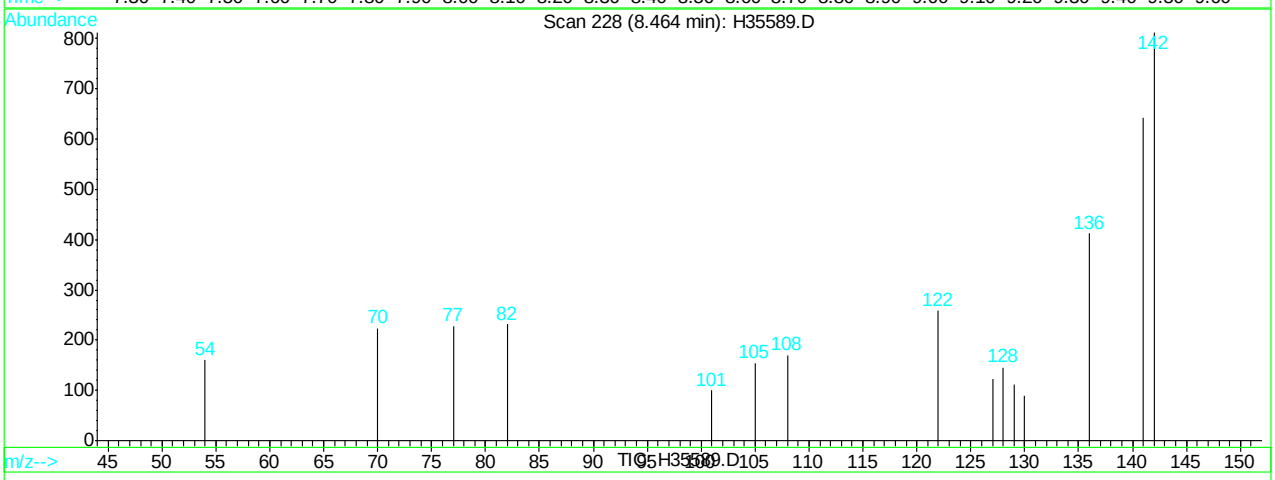
H35589.D H10239SP.M Fri Oct 23 16:29:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.30ppb m

response 1938

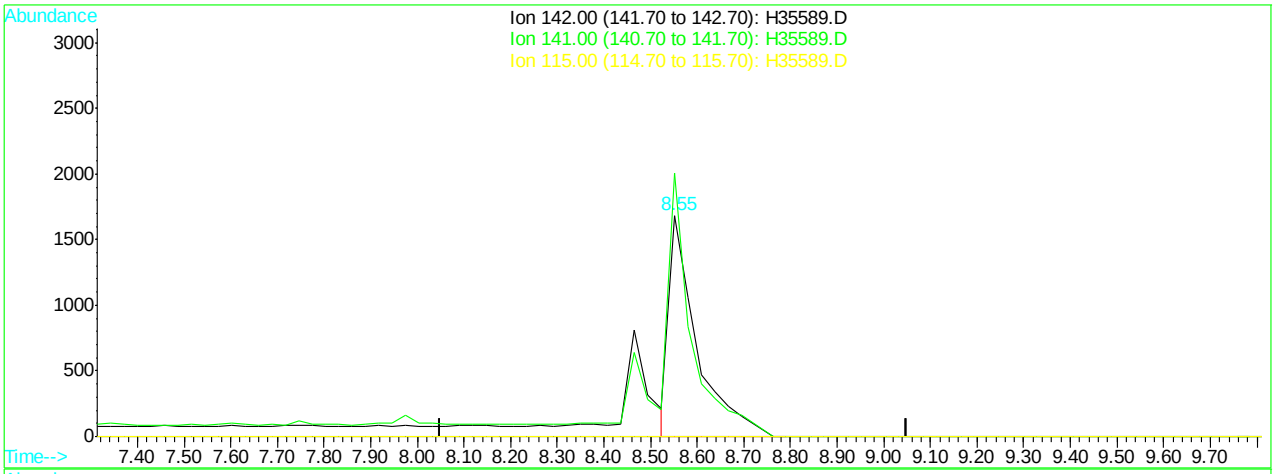
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	514.14#
115.00	0.00	0.00
0.00	0.00	0.00

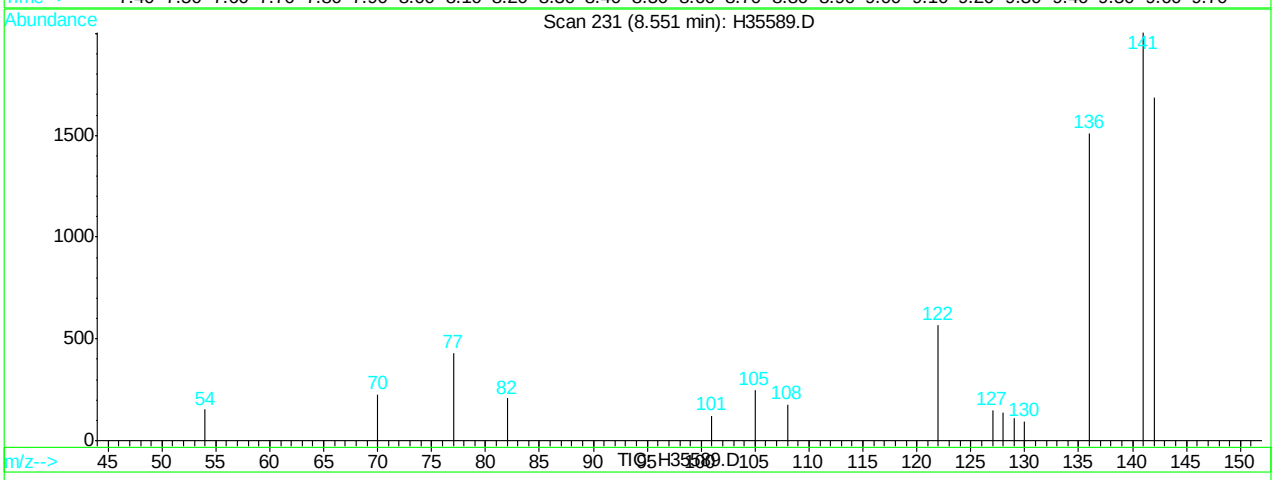
H35589.D H10239SP.M Fri Oct 23 16:31:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 0.26ppb m

response 7930

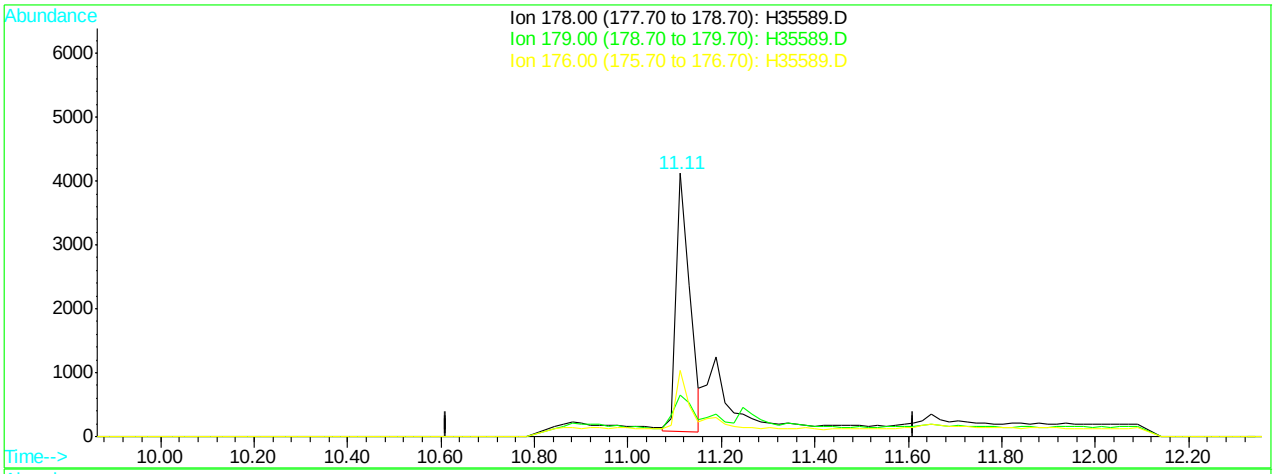
Ion	Exp%	Act%
142.00	100	100
141.00	86.50	125.65#
115.00	0.00	0.00
0.00	0.00	0.00

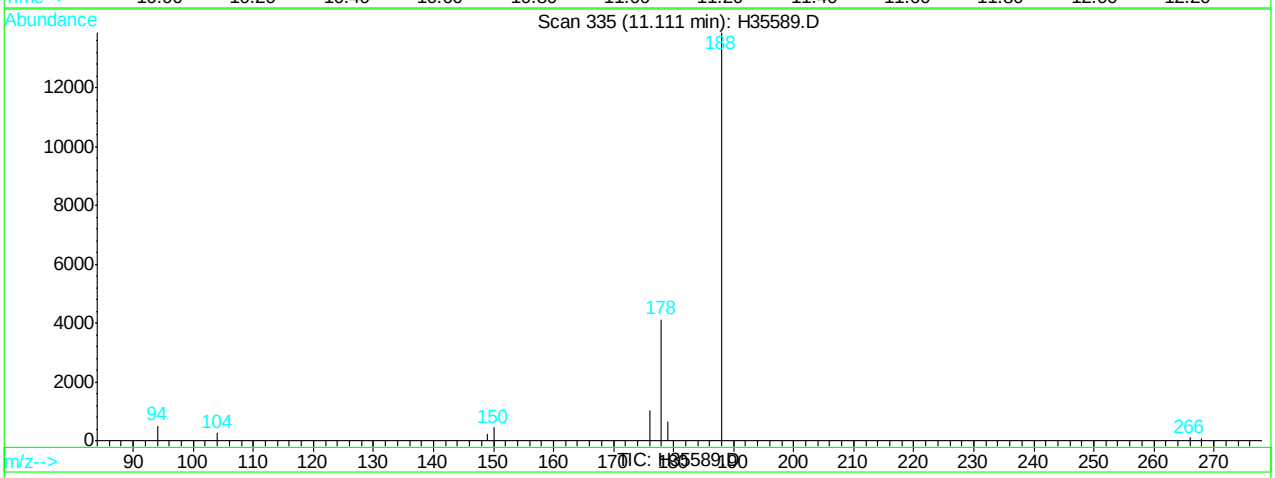
H35589.D H10239SP.M Fri Oct 23 16:31:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.21ppb m

response 8324

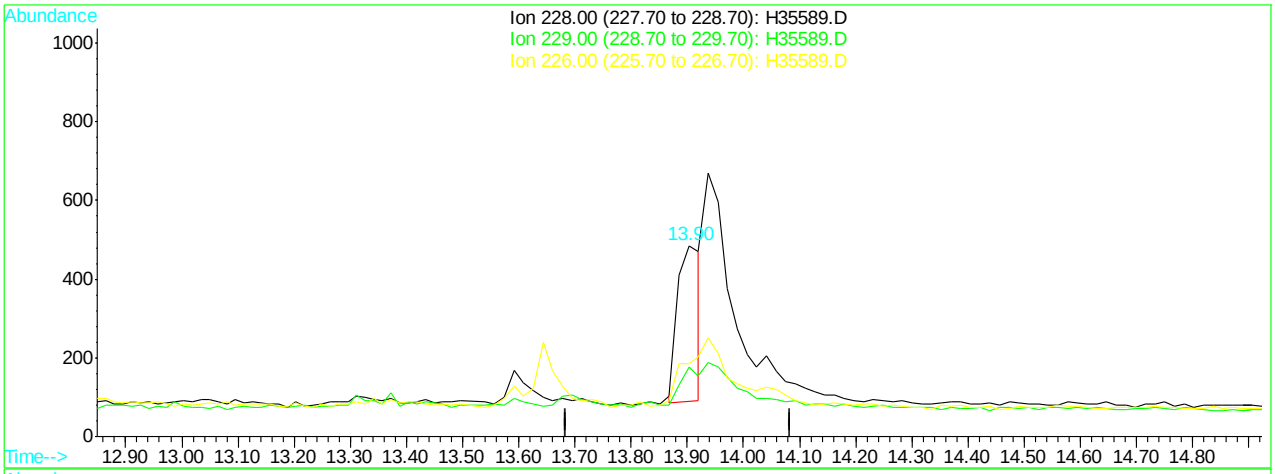
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	15.80
176.00	19.60	25.04
0.00	0.00	0.00

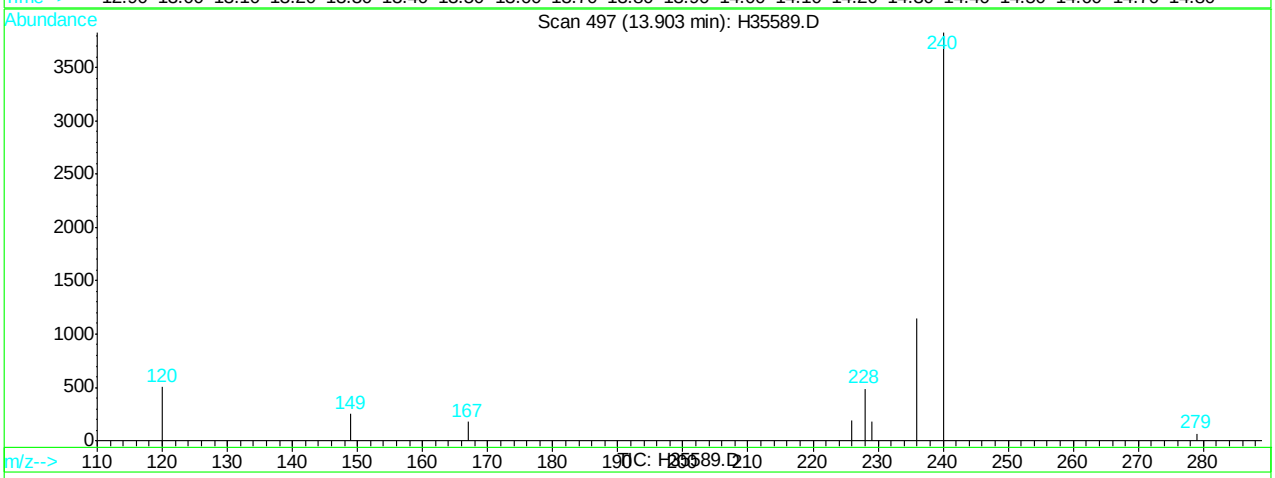
H35589.D H10239SP.M Fri Oct 23 16:31:27 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.37ppb m

response 1142

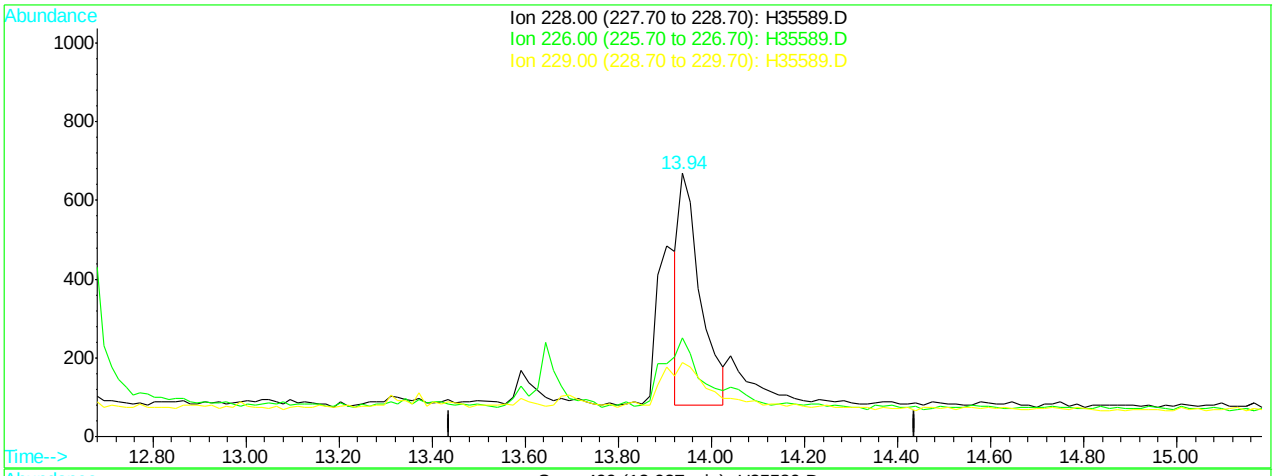
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	36.49#
226.00	30.50	38.35
0.00	0.00	0.00

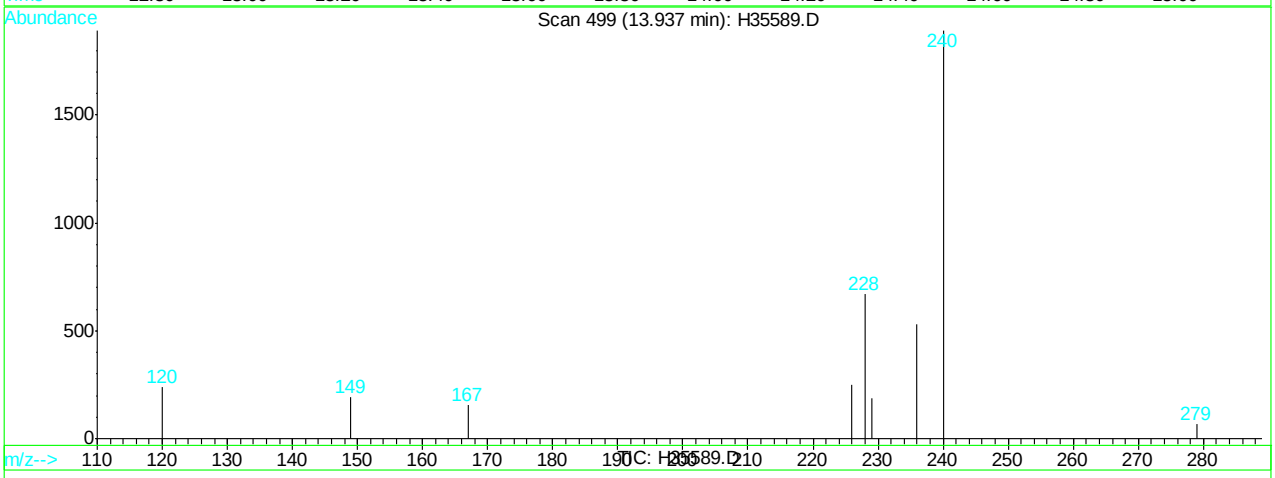
H35589.D H10239SP.M Fri Oct 23 16:31:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.32ppb m

response 1881

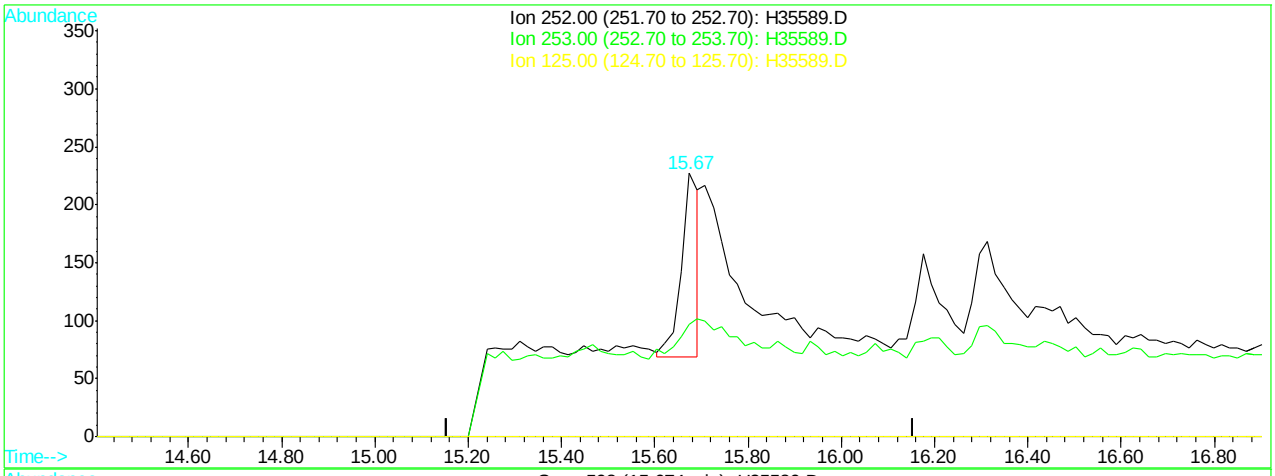
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	37.67
229.00	21.20	28.25#
0.00	0.00	0.00

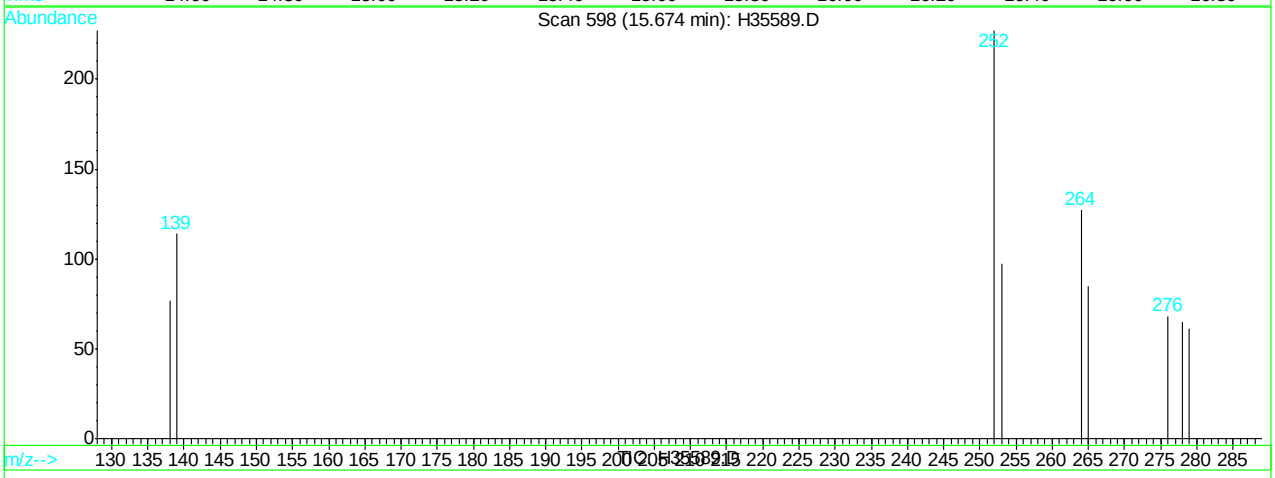
H35589.D H10239SP.M Fri Oct 23 16:31:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.67min 0.51ppb m

response 423

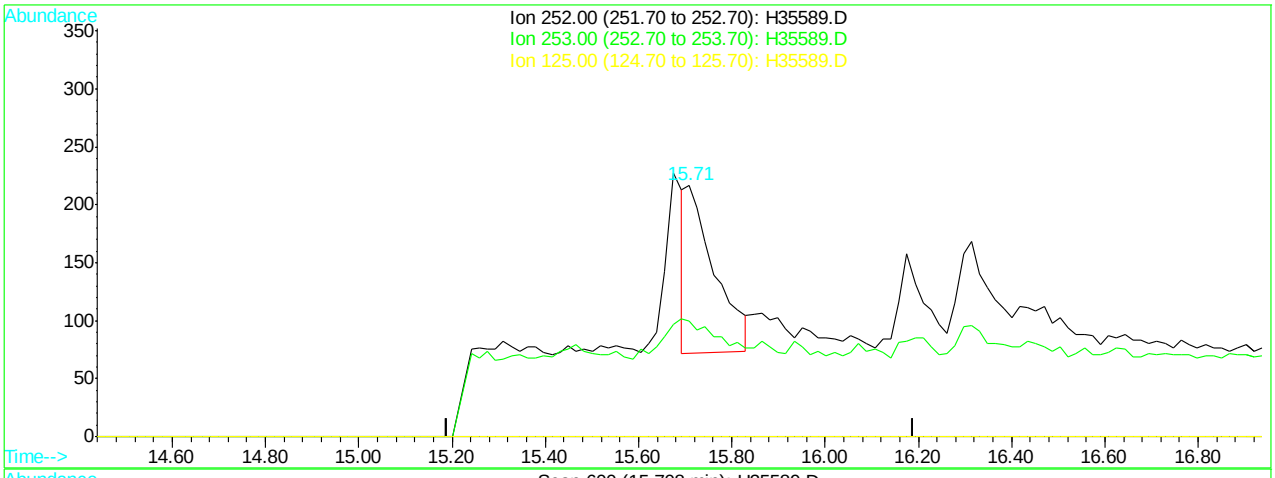
Ion	Exp%	Act%
252.00	100	100
253.00	27.80	42.73#
125.00	0.00	0.00
0.00	0.00	0.00

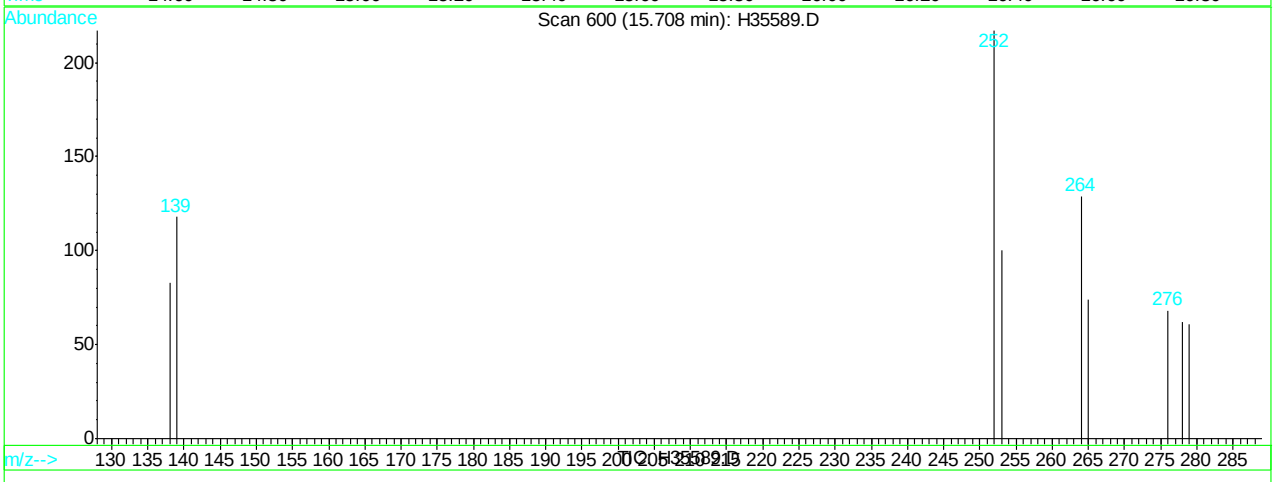
H35589.D H10239SP.M Fri Oct 23 16:31:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 0.41ppb m

response 620

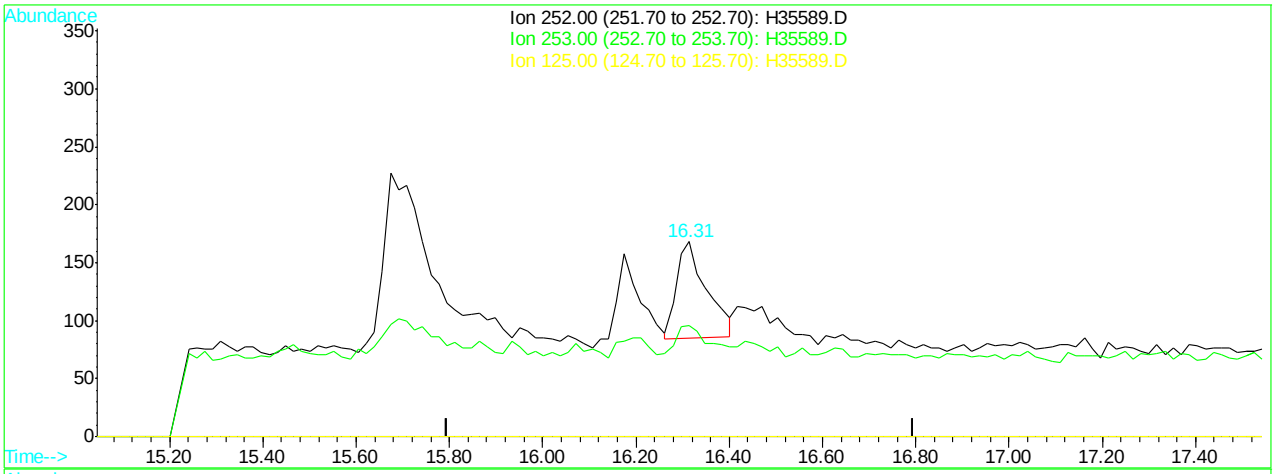
Ion	Exp%	Act%
252.00	100	100
253.00	26.10	46.08#
125.00	0.00	0.00
0.00	0.00	0.00

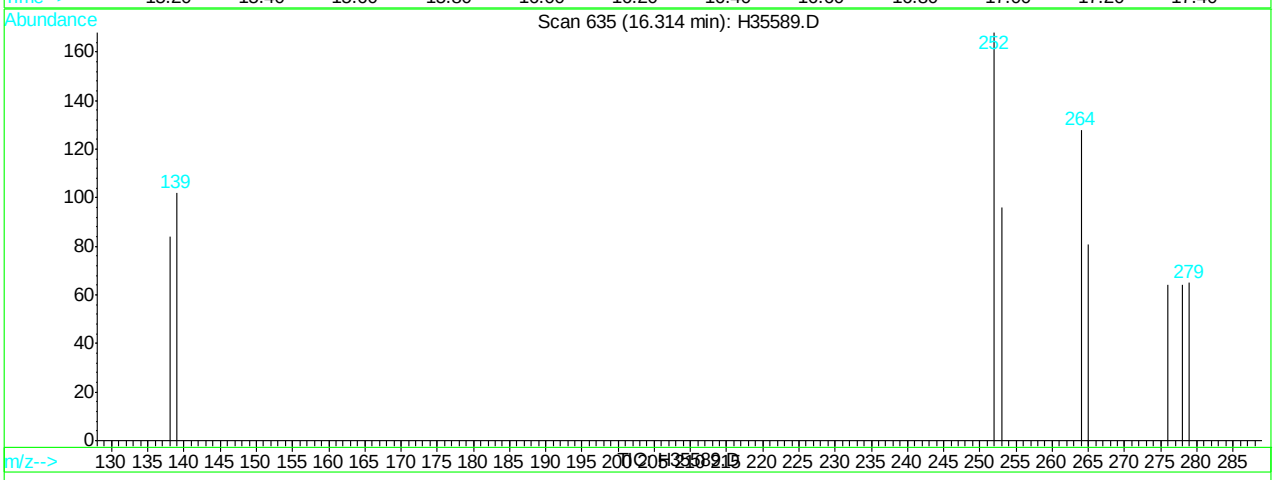
H35589.D H10239SP.M Fri Oct 23 16:31:42 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35589.D Vial: 11
Acq On : 23 Oct 2009 3:36 pm Operator: sheilac
Sample : t39646-8 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:26 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:29:03 2009
Response via : Multiple Level Calibration





(29) Benzo[a]pyrene (T)

16.31min 0.37ppb m

response 375

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	57.14#
125.00	0.00	0.00
0.00	0.00	0.00

H35589.D H10239SP.M Fri Oct 23 16:31:46 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35590.D Vial: 12
Acq On : 23 Oct 2009 4:05 pm Operator: sheilac
Sample : t39646-9 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:48 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	98217	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	91523	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	59842	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	103625	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	19954	4.00	ppb	0.00
26) Perylene-d12	16.38	264	4810	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	115444	31.20	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 624.00%#			
10) 2-Fluorobiphenyl	8.87	172	1906373	46.33	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 926.60%#			
16) 2,4,6-Tribromophenol	10.40	330	329333	83.78	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 837.80%#			
23) Terphenyl-d14	12.66	244	371157	49.96	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 999.20%#			

Target Compounds

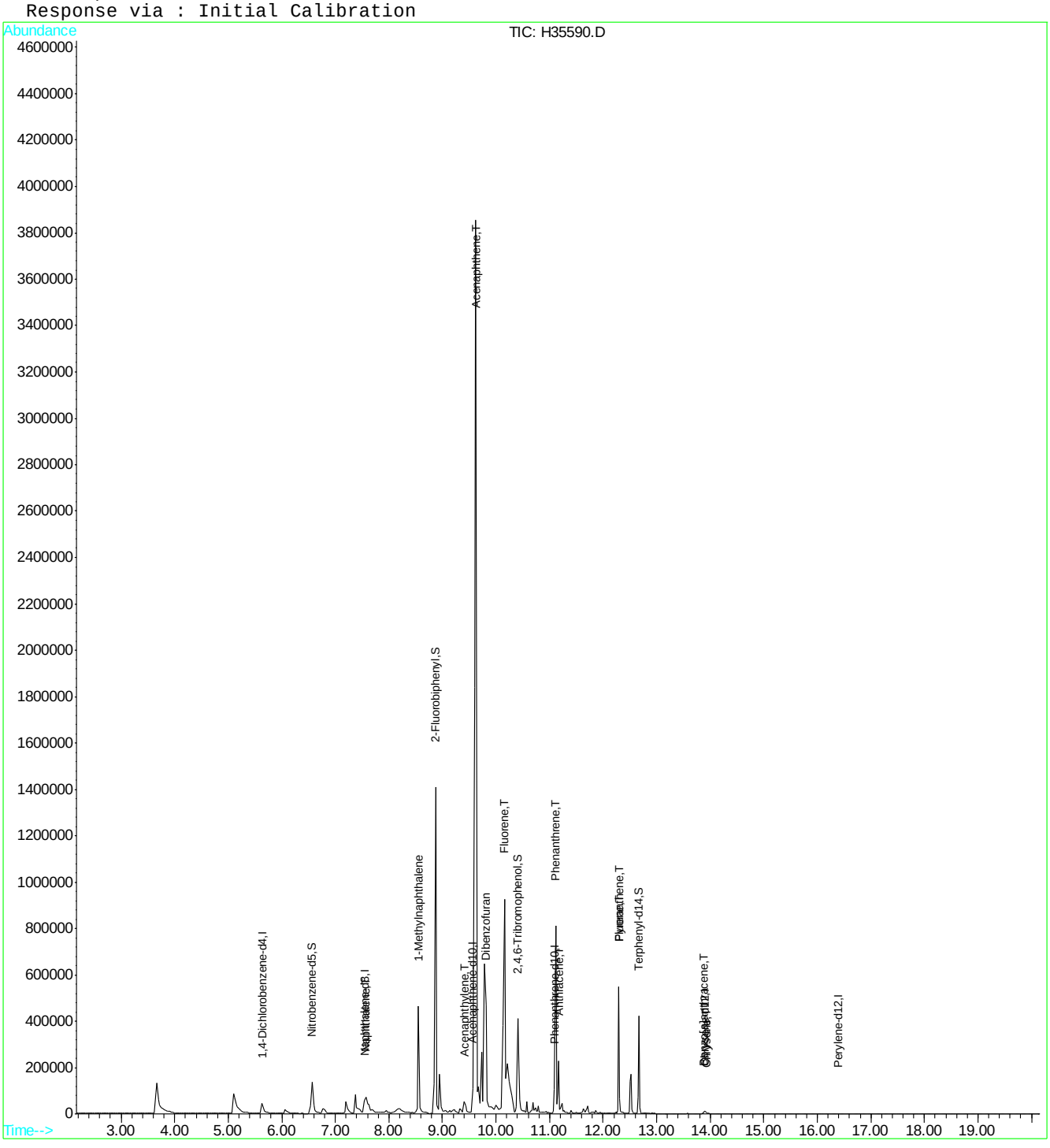
							Qvalue
6) Naphthalene	7.57	128	81728	2.67	ppb		97
8) 1-Methylnaphthalene	8.55	142	516171	15.16	ppb	#	93
11) Acenaphthylene	9.41	152	75959	1.97	ppb		89
12) Acenaphthene	9.62	153	3435459	102.89	ppb	#	48
13) Dibenzofuran	9.81	168	825720	26.62	ppb	#	30
14) Fluorene	10.16	166	1042298	65.83	ppb	#	73
18) Phenanthrene	11.11	178	738526	16.32	ppb		97
19) Anthracene	11.17	178	240337m	4.58	ppb		
20) Fluoranthene	12.29	202	565961	17.79	ppb	#	93
22) Pyrene	12.29	202	570152	17.39	ppb		98
24) Benzo[a]anthracene	13.88	228	3934m	0.86	ppb		
25) Chrysene	13.94	228	1910m	0.21	ppb		

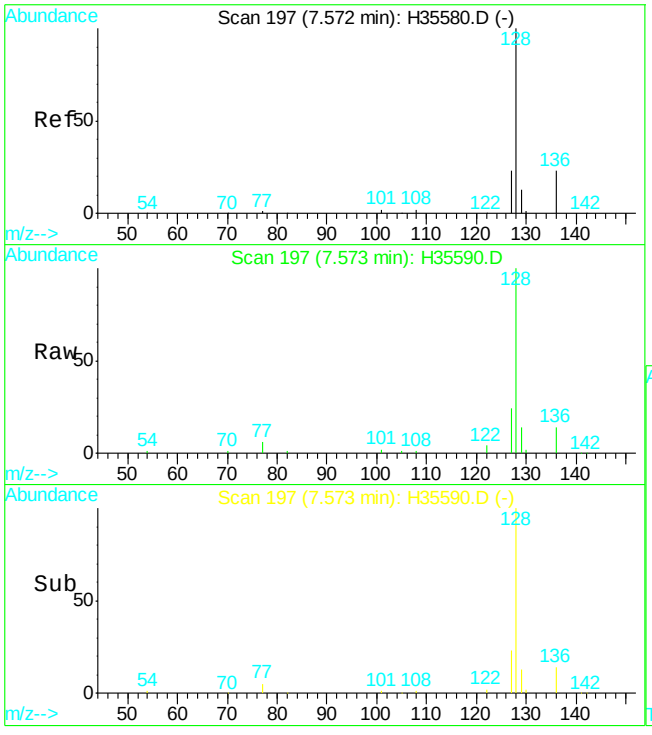
(#) = qualifier out of range (m) = manual integration
H35590.D H10239SP.M Fri Oct 23 16:48:32 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35590.D Vial: 12
Acq On : 23 Oct 2009 4:05 pm Operator: sheilac
Sample : t39646-9 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:48 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Initial Calibration

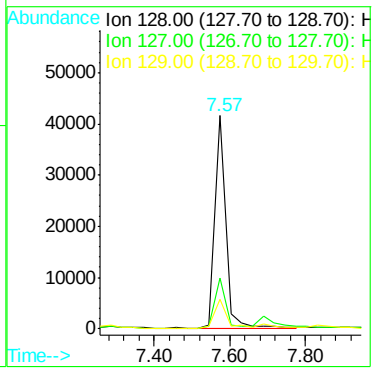


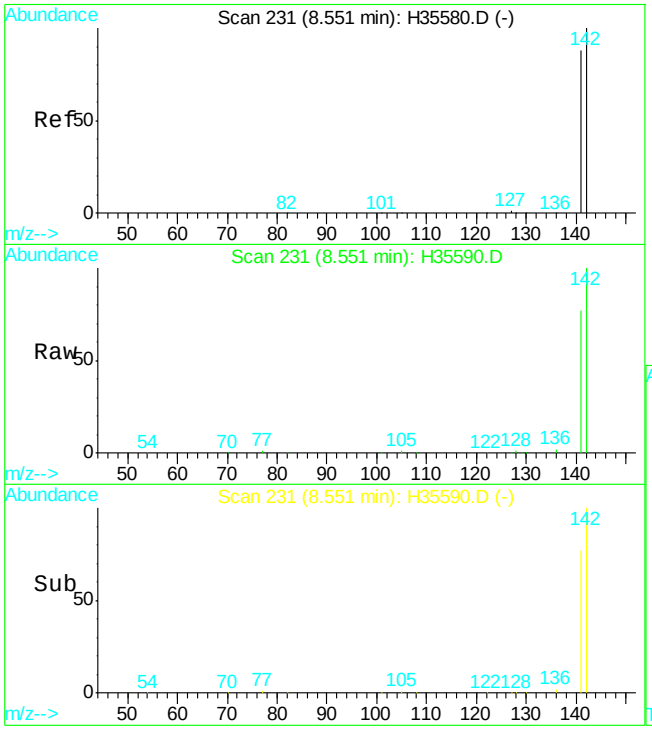


#6
Naphthalene
Concen: 2.67 ppb
RT: 7.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:128 Resp: 81728

Ion	Ratio	Lower	Upper
128	100		
127	23.2	15.3	28.5
129	13.3	8.5	15.9

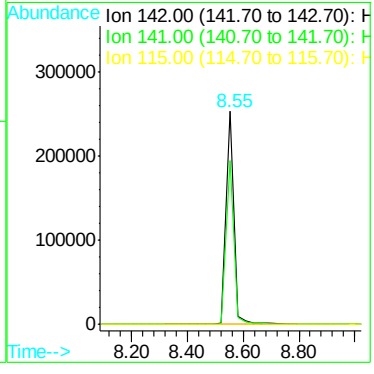


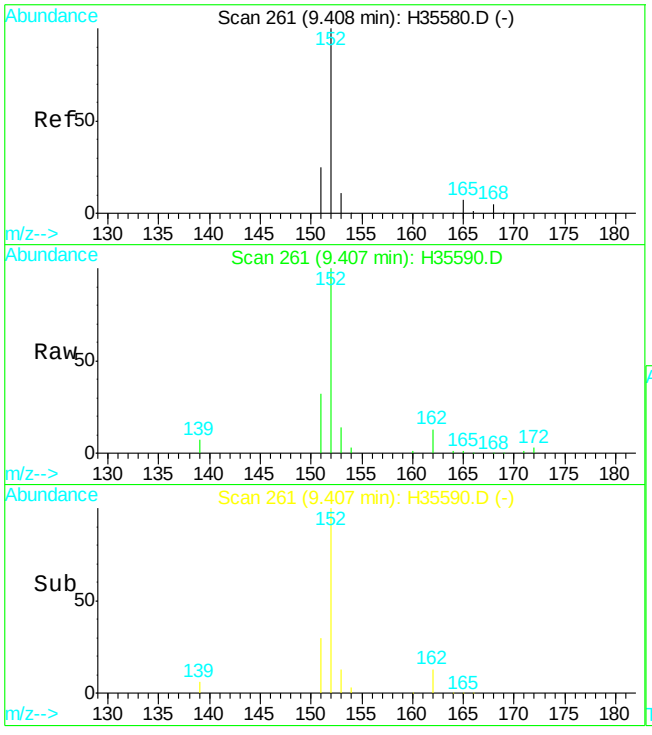


#8
1-Methylnaphthalene
Concen: 15.16 ppb
RT: 8.55 min Scan# 231
Delta R.T. 0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:142 Resp: 516171

Ion	Ratio	Lower	Upper
142	100		
141	80.5	60.5	112.5
115	0.0	0.0	0.0

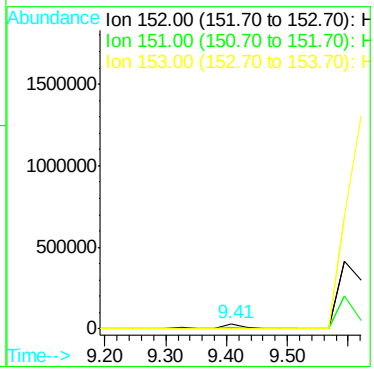


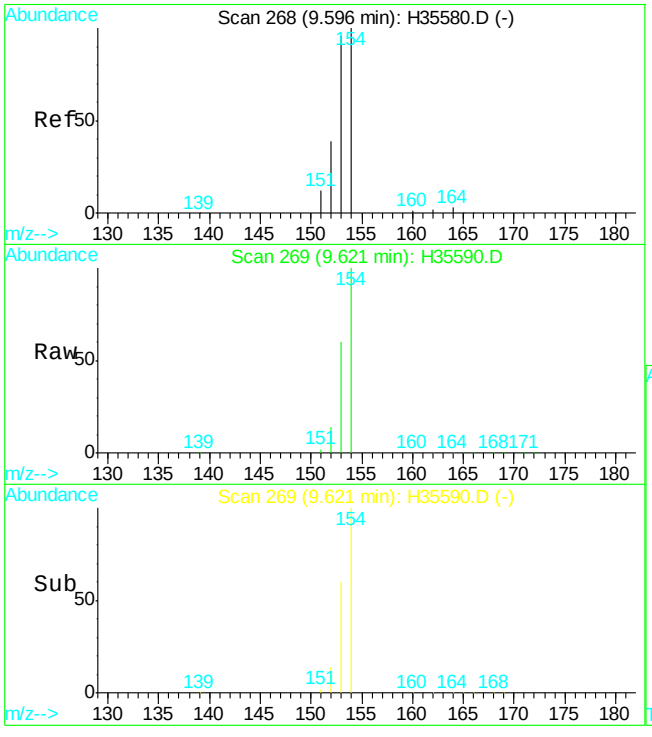


#11
Acenaphthylene
Concen: 1.97 ppb
RT: 9.41 min Scan# 261
Delta R.T. -0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:152 Resp: 75959

Ion	Ratio	Lower	Upper
152	100		
151	31.9	17.8	33.0
153	12.9	7.4	13.8

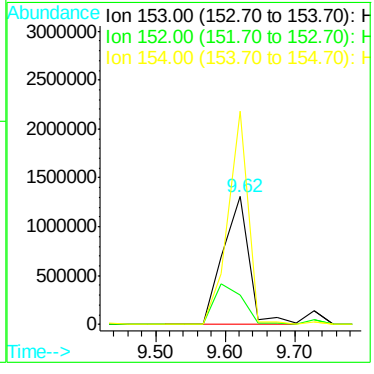


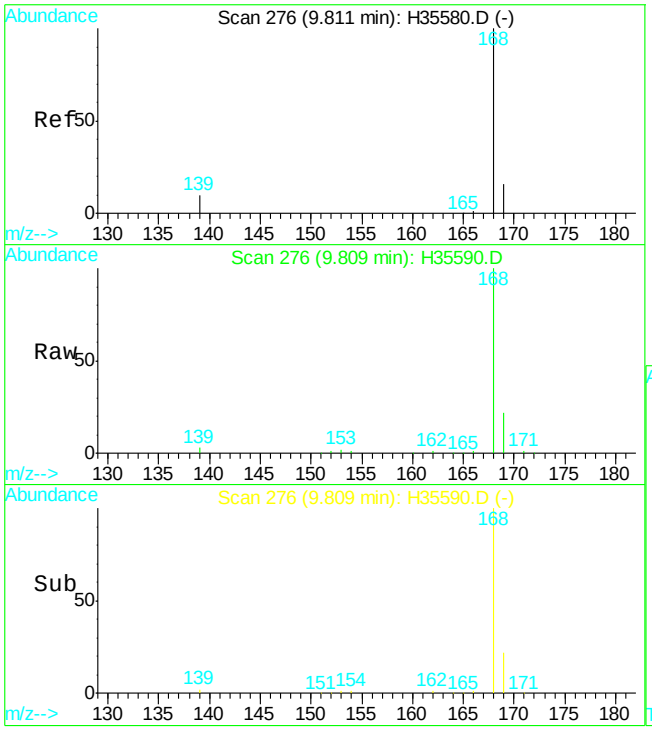


#12
Acenaphthene
Concen: 102.89 ppb
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:153 Resp: 3435459

Ion	Ratio	Lower	Upper
153	100		
152	22.9	28.7	53.3#
154	167.4	72.9	135.5#

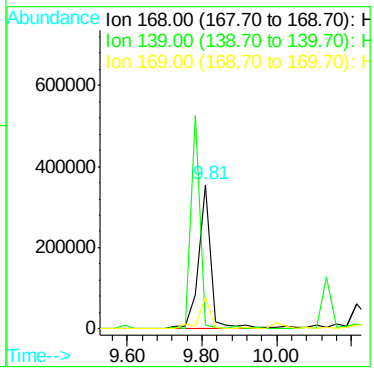


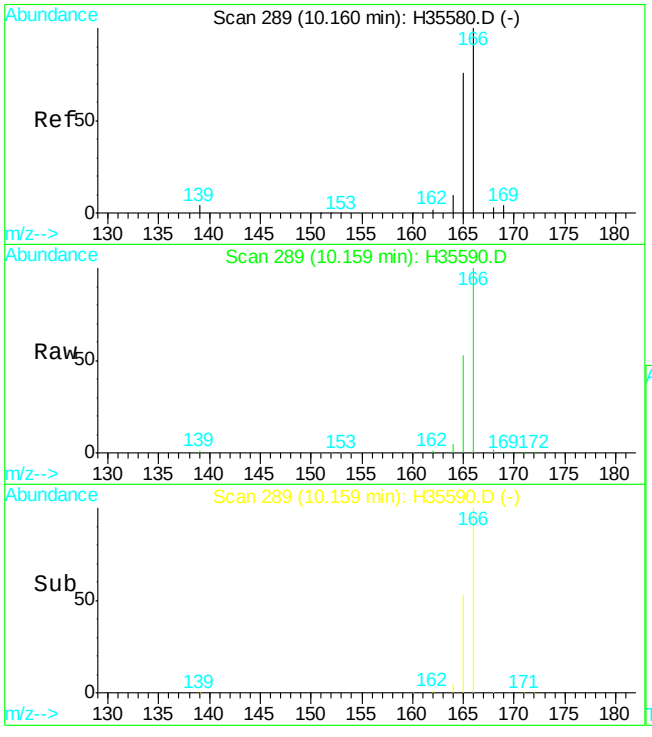


#13
Dibenzofuran
Concen: 26.62 ppb
RT: 9.81 min Scan# 276
Delta R.T. -0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:168 Resp: 825720

Ion	Ratio	Lower	Upper
168	100		
139	106.1	33.7	62.5#
169	20.6	9.8	18.2#

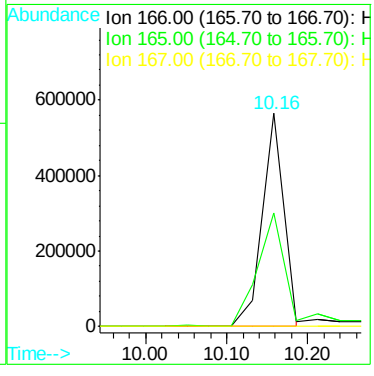


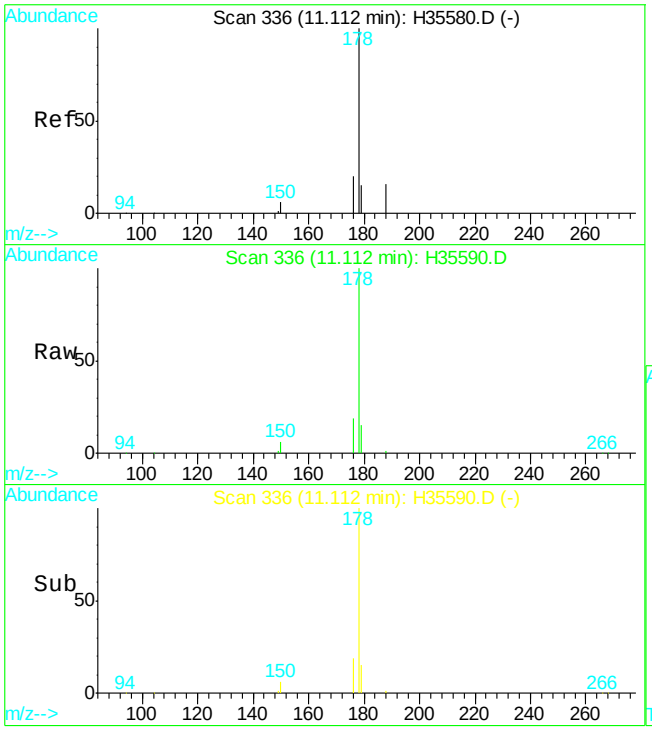


#14
Fluorene
Concen: 65.83 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:166 Resp: 1042298

Ion	Ratio	Lower	Upper
166	100		
165	52.7	53.1	98.7#
167	0.0	0.0	0.0

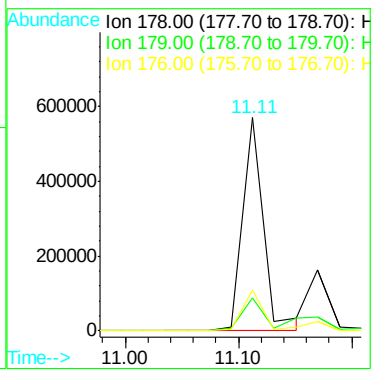


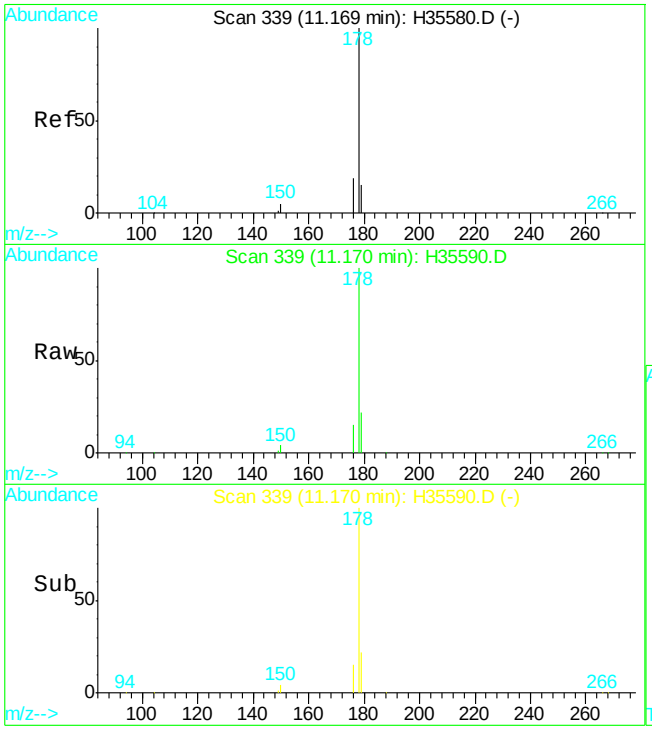


#18
Phenanthrene
Concen: 16.32 ppb
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:178 Resp: 738526

Ion	Ratio	Lower	Upper
178	100		
179	12.9	10.6	19.6
176	18.9	13.7	25.5

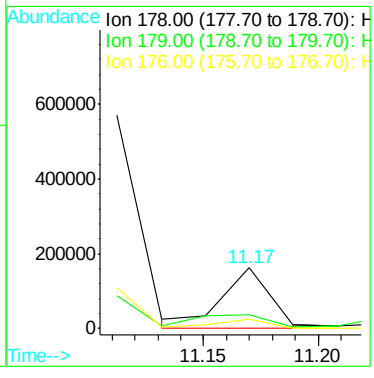


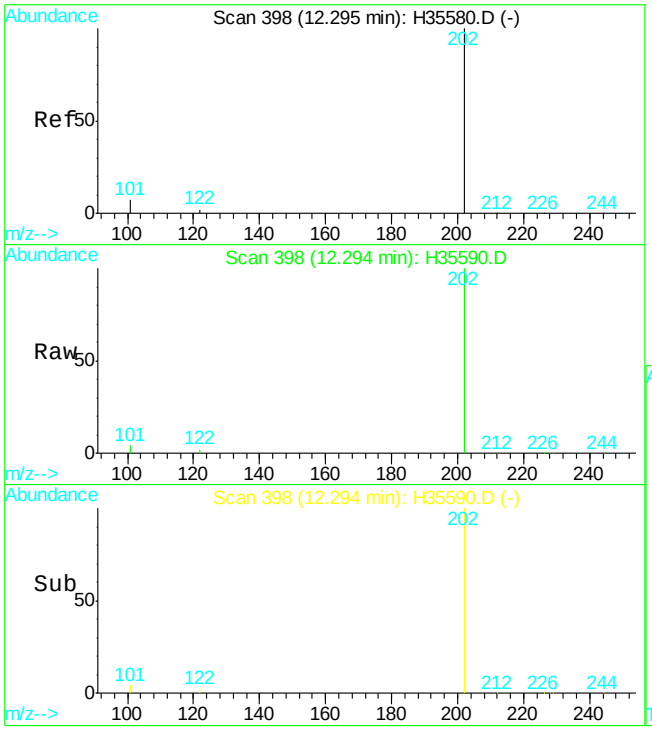


#19
Anthracene
Concen: 4.58 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:178 Resp: 240337

Ion	Ratio	Lower	Upper
178	100		
179	22.0	10.6	19.6#
176	14.8	13.3	24.7

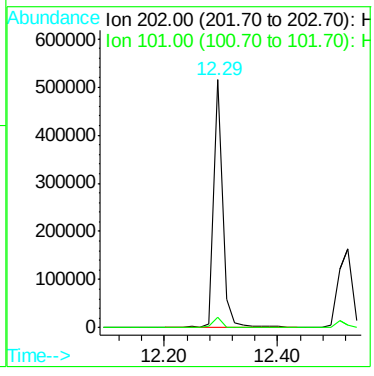


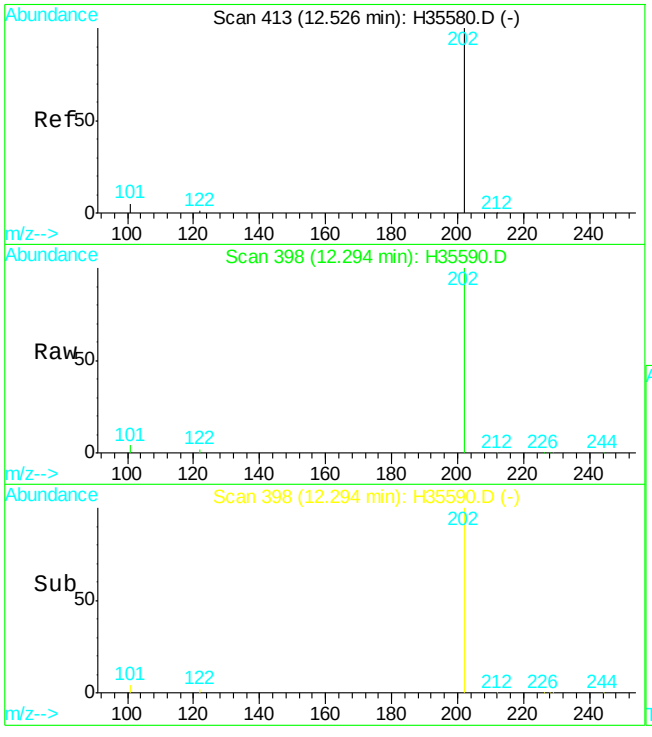


#20
Fluoranthene
Concen: 17.79 ppb
RT: 12.29 min Scan# 398
Delta R.T. 0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:202 Resp: 565961

Ion	Ratio	Lower	Upper
202	100		
101	4.4	4.6	8.6#

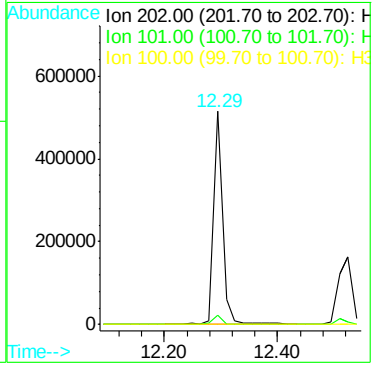


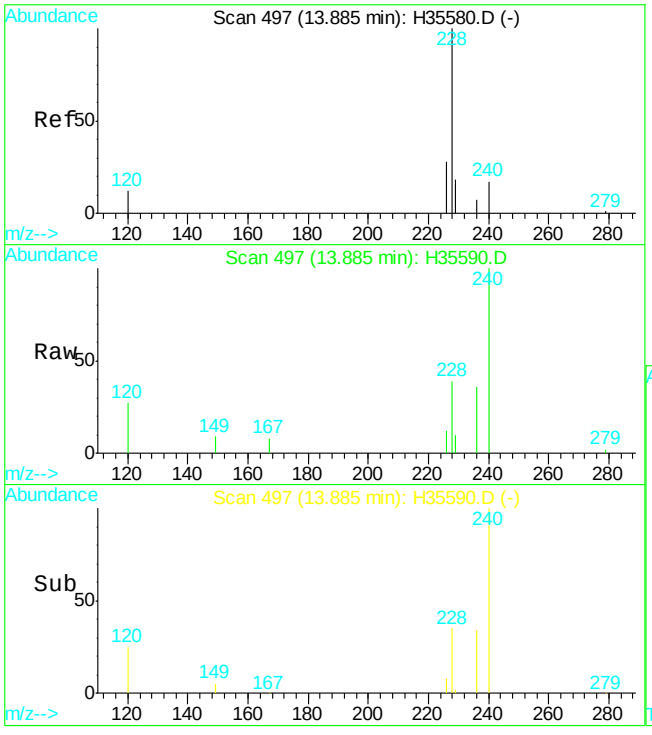


#22
Pyrene
Concen: 17.39 ppb
RT: 12.29 min Scan# 398
Delta R.T. -0.23 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:202 Resp: 570152

Ion	Ratio	Lower	Upper
202	100		
101	4.4	3.5	6.5
100	0.0	0.0	0.0

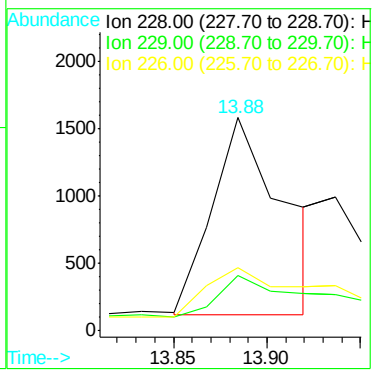


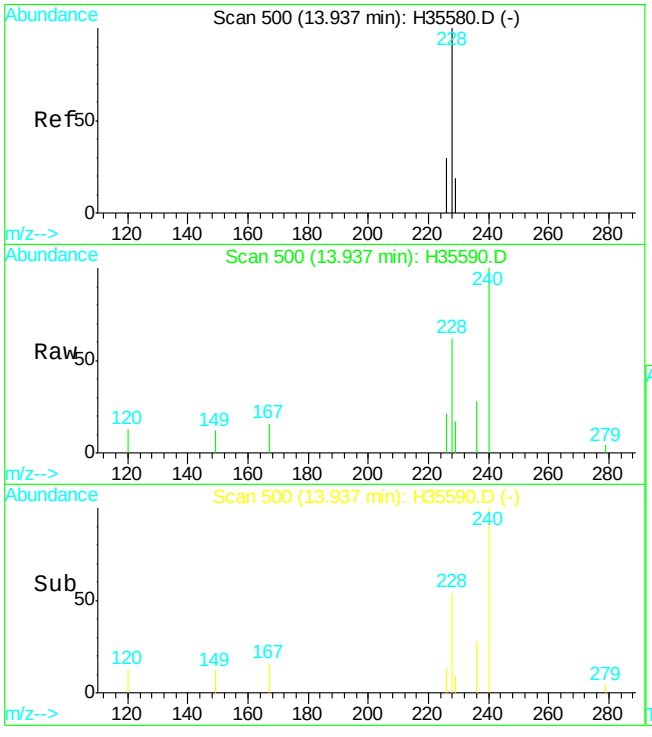


#24
Benzo[a]anthracene
Concen: 0.86 ppb m
RT: 13.88 min Scan# 497
Delta R.T. -0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:228 Resp: 3934

Ion	Ratio	Lower	Upper
228	100		
229	26.0	14.4	26.7
226	29.5	21.3	39.6

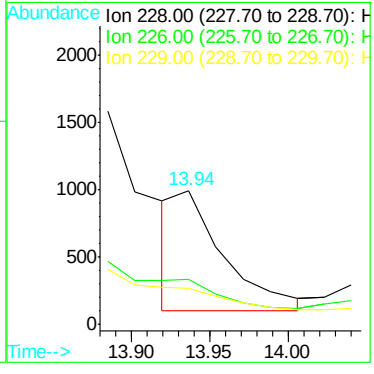




#25
Chrysene
Concen: 0.21 ppb m
RT: 13.94 min Scan# 500
Delta R.T. -0.00 min
Lab File: H35590.D
Acq: 23 Oct 2009 4:05 pm

Tgt Ion:228 Resp: 1910

Ion	Ratio	Lower	Upper
228	100		
226	33.8	21.8	40.4
229	27.4	14.8	27.6



8.1.43

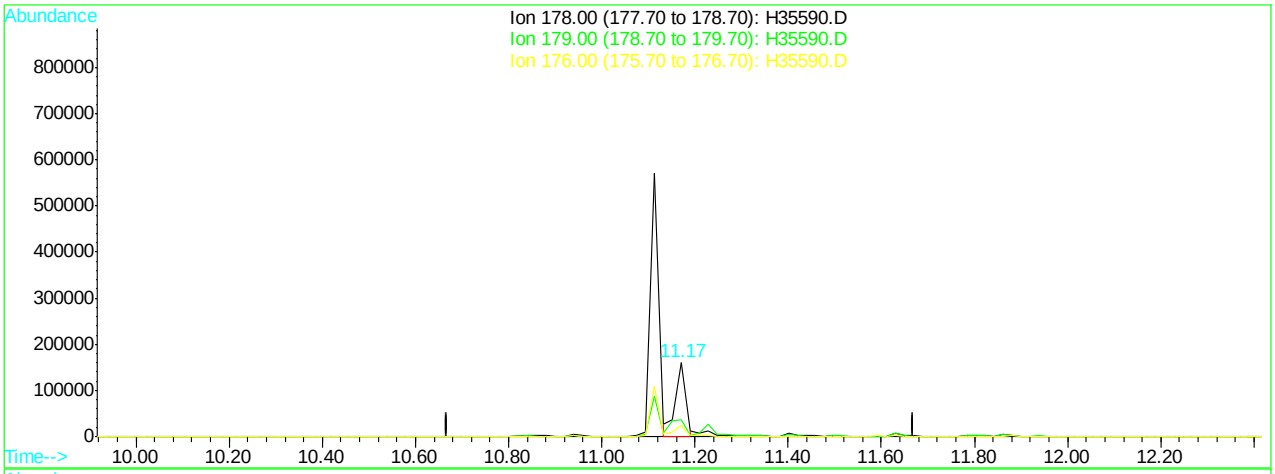
8

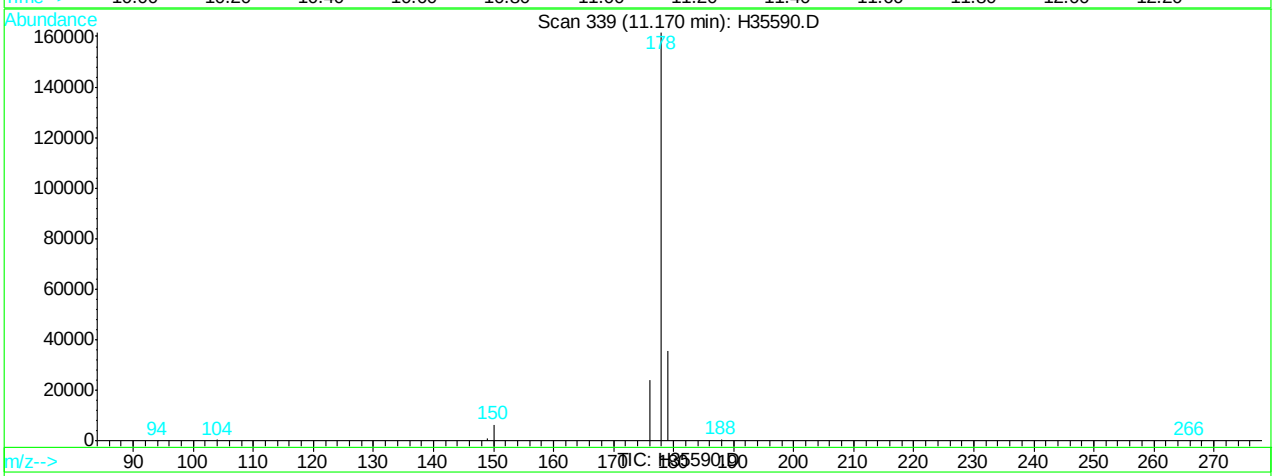
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35590.D Vial: 12
Acq On : 23 Oct 2009 4:05 pm Operator: sheilac
Sample : t39646-9 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:48 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 4.58ppb m

response 240337

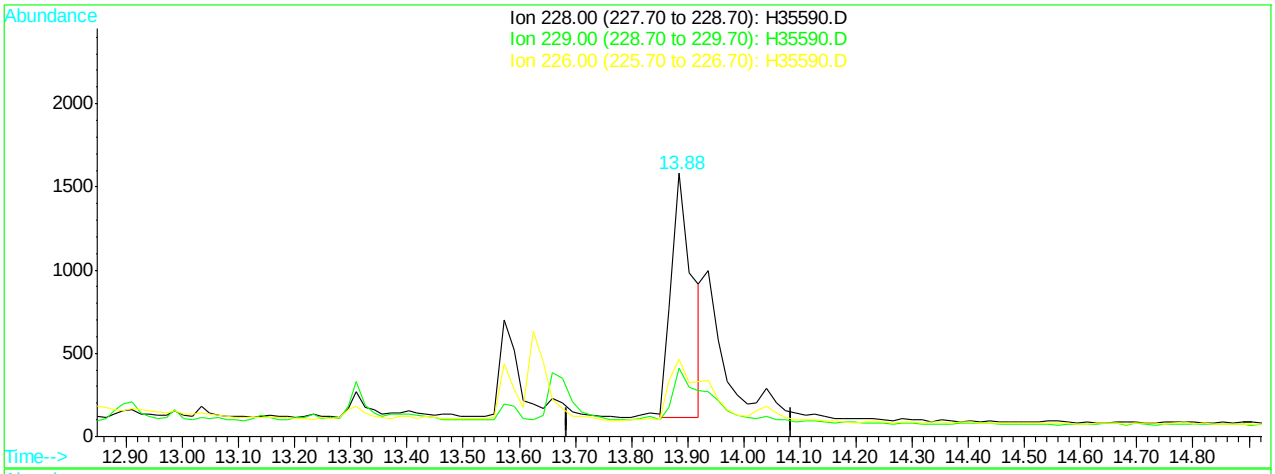
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	22.00#
176.00	19.00	14.75
0.00	0.00	0.00

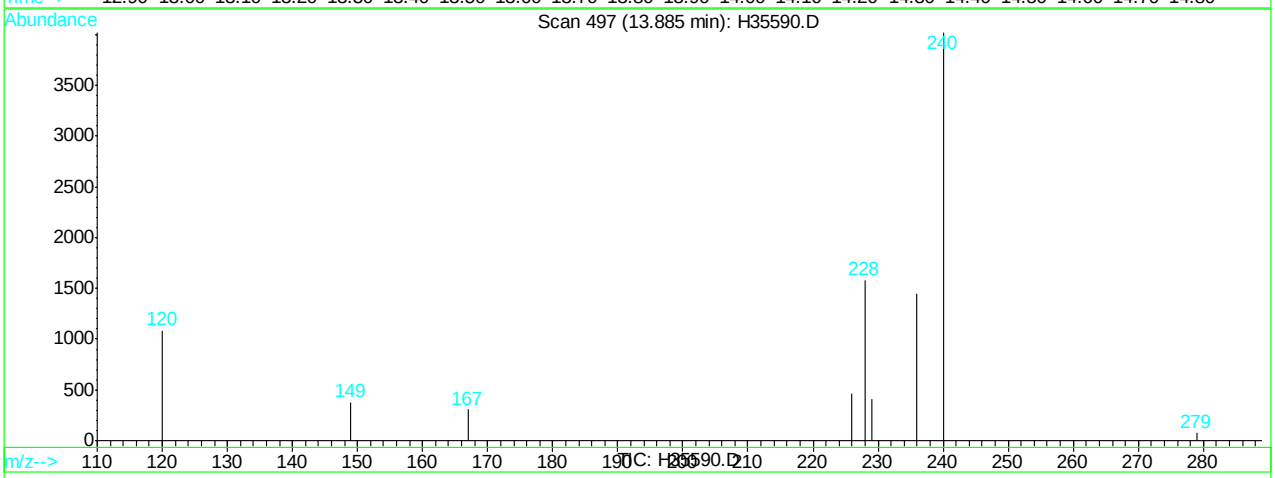
H35590.D H10239SP.M Fri Oct 23 16:48:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35590.D Vial: 12
Acq On : 23 Oct 2009 4:05 pm Operator: sheilac
Sample : t39646-9 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:48 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 0.86ppb m

response 3934

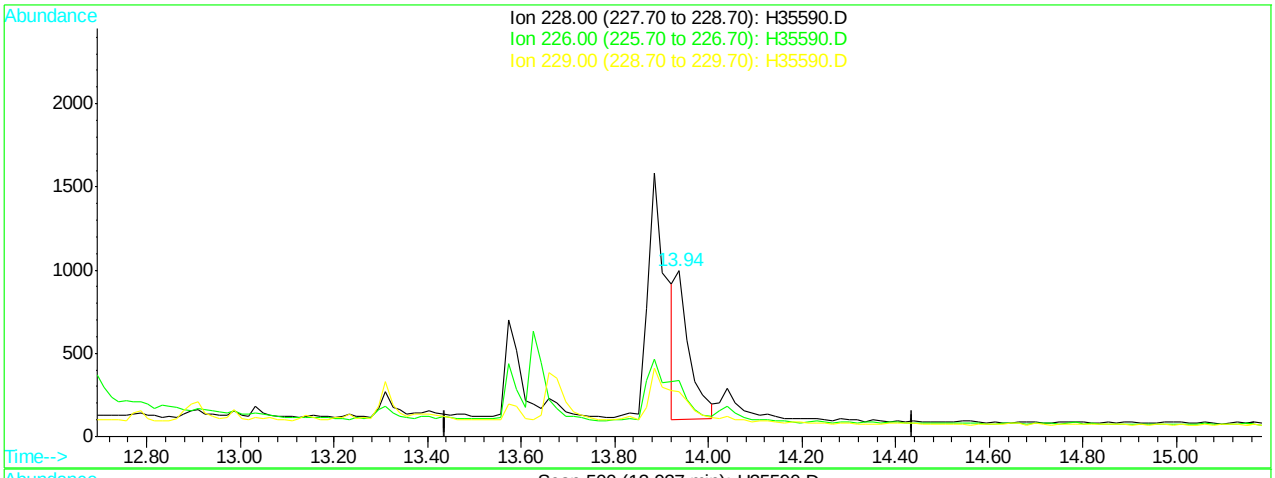
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	26.04
226.00	30.50	29.52
0.00	0.00	0.00

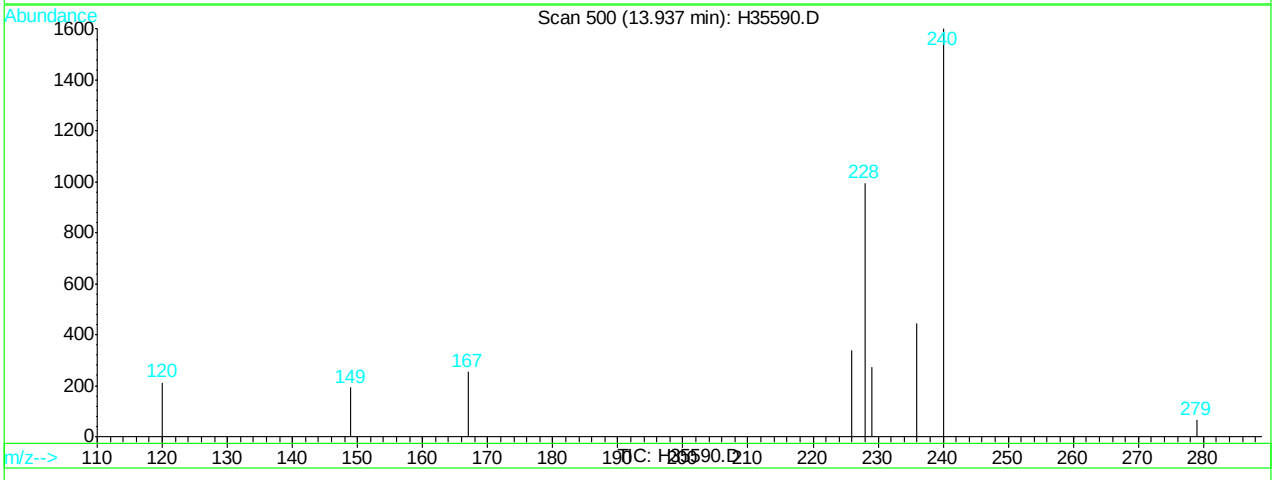
H35590.D H10239SP.M Fri Oct 23 16:48:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35590.D Vial: 12
Acq On : 23 Oct 2009 4:05 pm Operator: sheilac
Sample : t39646-9 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 16:48 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:35:08 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.21ppb m

response 1910

Ion	Exp%	Act%
228.00	100	100
226.00	31.10	33.84
229.00	21.20	27.41
0.00	0.00	0.00

H35590.D H10239SP.M Fri Oct 23 16:48:50 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35626.D Vial: 18
Acq On : 26 Oct 2009 9:05 pm Operator: sheilac
Sample : t39646-9,10x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 21:32 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 20:51:21 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

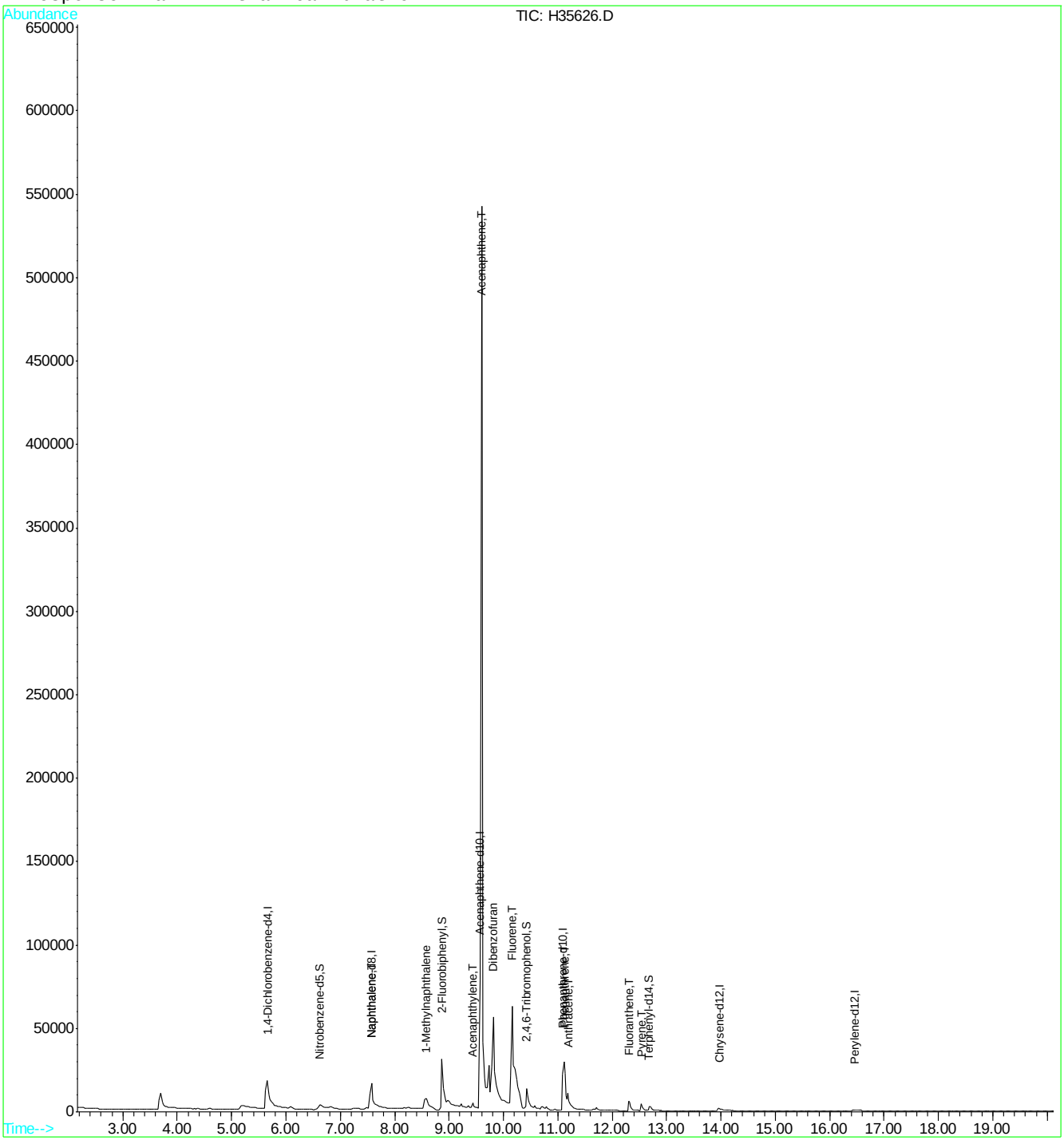
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	65112	4.00	ppb	0.03
4) Naphthalene-d8	7.57	136	47361	4.00	ppb	-0.14
9) Acenaphthene-d10	9.57	164	57996	4.00	ppb	-0.03
15) Phenanthrene-d10	11.09	188	56693	4.00	ppb	-0.02
21) Chrysene-d12	13.97	240	7349	4.00	ppb	0.07
26) Perylene-d12	16.45	264	4365	4.00	ppb	0.05
System Monitoring Compounds						
5) Nitrobenzene-d5	6.62	82	9889	6.28	ppb	0.06
Spiked Amount 5.000	Range 17 - 131		Recovery = 125.60%			
10) 2-Fluorobiphenyl	8.87	172	83596	2.71	ppb	-0.02
Spiked Amount 5.000	Range 15 - 137		Recovery = 54.20%			
16) 2,4,6-Tribromophenol	10.42	330	22658	11.97	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 119.70%			
23) Terphenyl-d14	12.68	244	8803	4.64	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery = 92.80%			
Target Compounds						Qvalue
6) Naphthalene	7.57	128	6400	0.36	ppb #	89
8) 1-Methylnaphthalene	8.58	142	16946	0.96	ppb #	77
11) Acenaphthylene	9.44	152	4468	0.32	ppb #	73
12) Acenaphthene	9.60	153	381921	12.01	ppb	98
13) Dibenzofuran	9.81	168	125089	4.19	ppb	86
14) Fluorene	10.16	166	93391	4.87	ppb	74
18) Phenanthrene	11.13	178	32331	1.42	ppb #	88
19) Anthracene	11.19	178	18644m	0.64	ppb	
20) Fluoranthene	12.31	202	16081	1.54	ppb	97
22) Pyrene	12.54	202	10111	0.91	ppb #	94

(#) = qualifier out of range (m) = manual integration
H35626.D H10269SP.M Mon Oct 26 21:33:09 2009

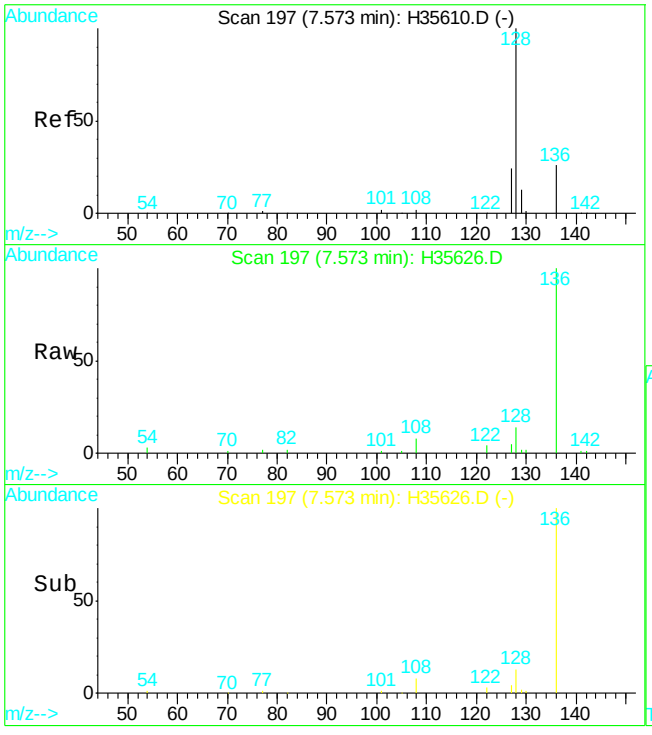
Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35626.D Vial: 18
Acq On : 26 Oct 2009 9:05 pm Operator: sheilac
Sample : t39646-9,10x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 21:32 2009 Quant Results File: H10269SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 20:51:21 2009
Response via : Initial Calibration



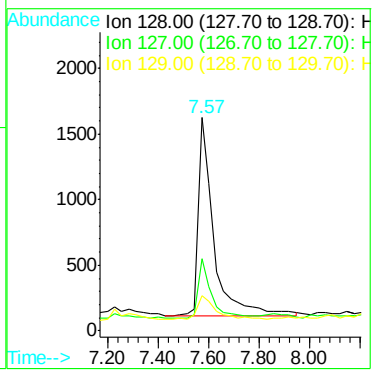
H35626.D H10269SP.M Mon Oct 26 21:33:10 2009 Page 2

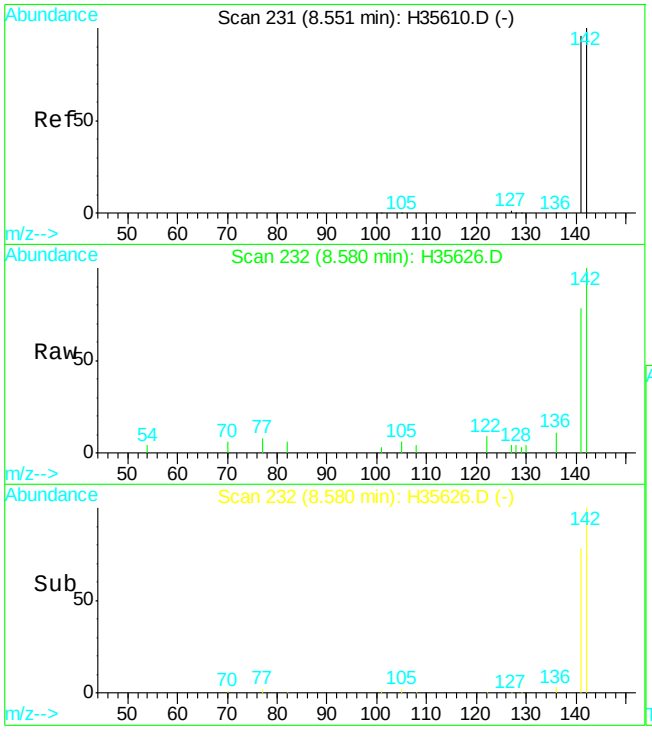


#6
Naphthalene
Concen: 0.36 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.00 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:128 Resp: 6400

Ion	Ratio	Lower	Upper
128	100		
127	30.2	15.8	29.4#
129	11.8	8.5	15.9

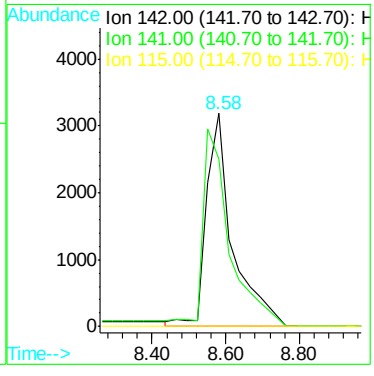


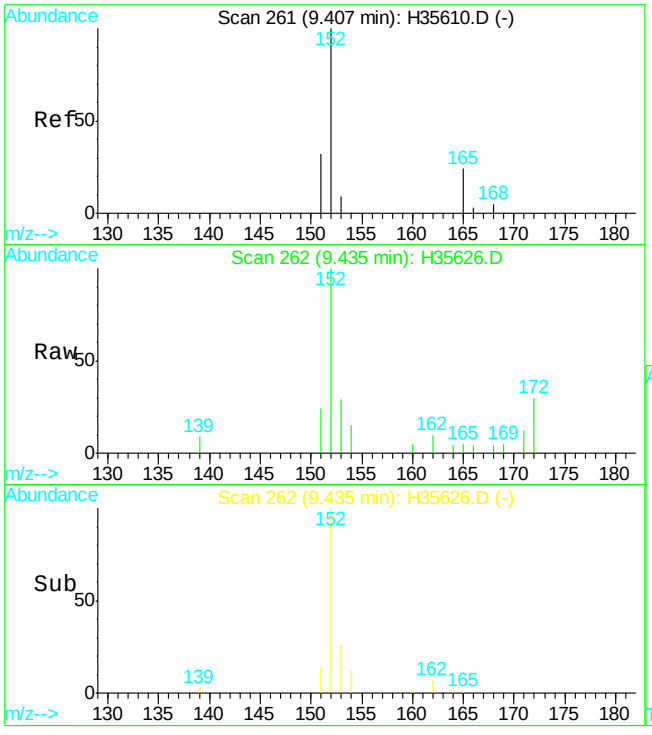


#8
1-Methylnaphthalene
Concen: 0.96 ppb
RT: 8.58 min Scan# 232
Delta R.T. 0.03 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:142 Resp: 16946

Ion	Ratio	Lower	Upper
142	100		
141	96.0	85.3	158.3
115	0.0	0.0	0.0

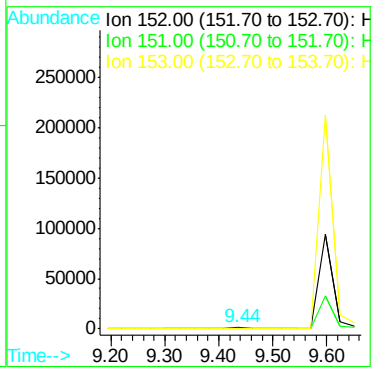


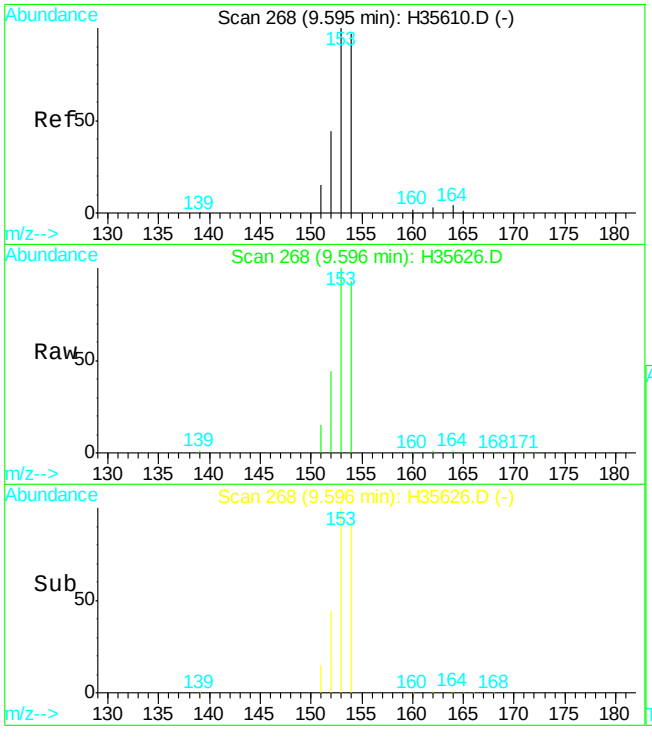


#11
Acenaphthylene
Concen: 0.32 ppb
RT: 9.44 min Scan# 262
Delta R.T. 0.00 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:152 Resp: 4468

Ion	Ratio	Lower	Upper
152	100		
151	19.2	22.8	42.4#
153	22.2	5.9	11.1#

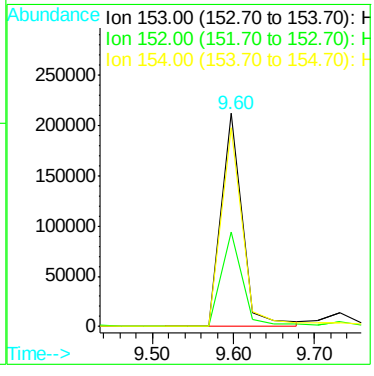


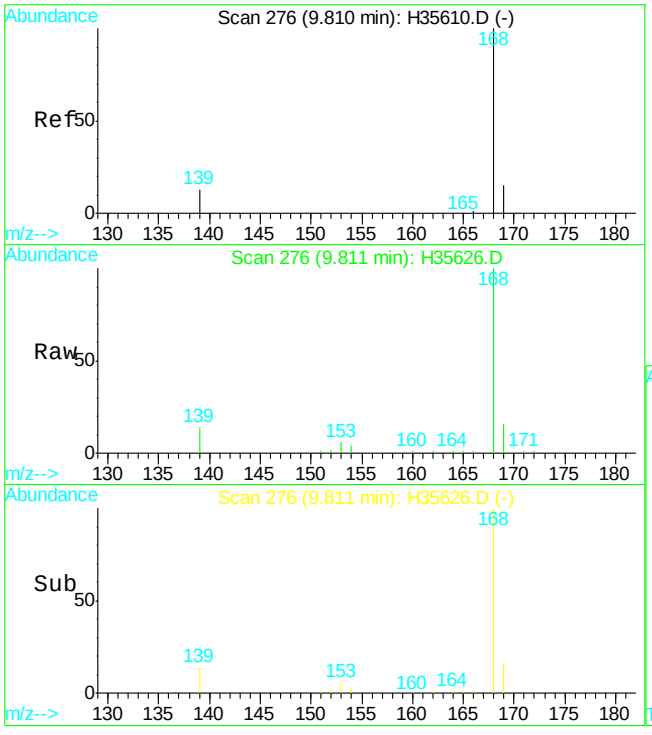


#12
Acenaphthene
Concen: 12.01 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.03 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:153 Resp: 381921

Ion	Ratio	Lower	Upper
153	100		
152	44.1	31.0	57.6
154	93.4	67.6	125.6

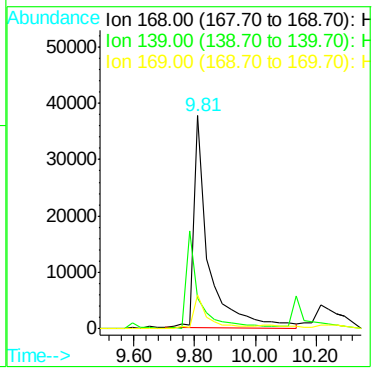


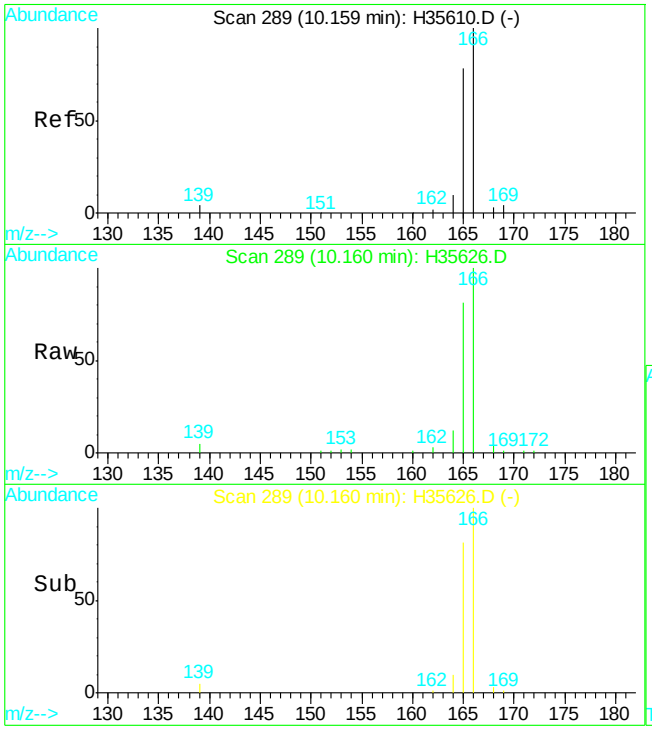


#13
Dibenzofuran
Concen: 4.19 ppb
RT: 9.81 min Scan# 276
Delta R.T. -0.03 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:168 Resp: 125089

Ion	Ratio	Lower	Upper
168	100		
139	41.4	37.9	70.5
169	14.6	10.6	19.6

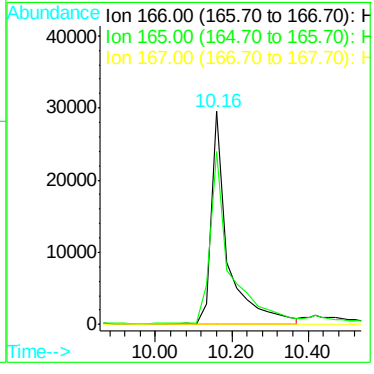


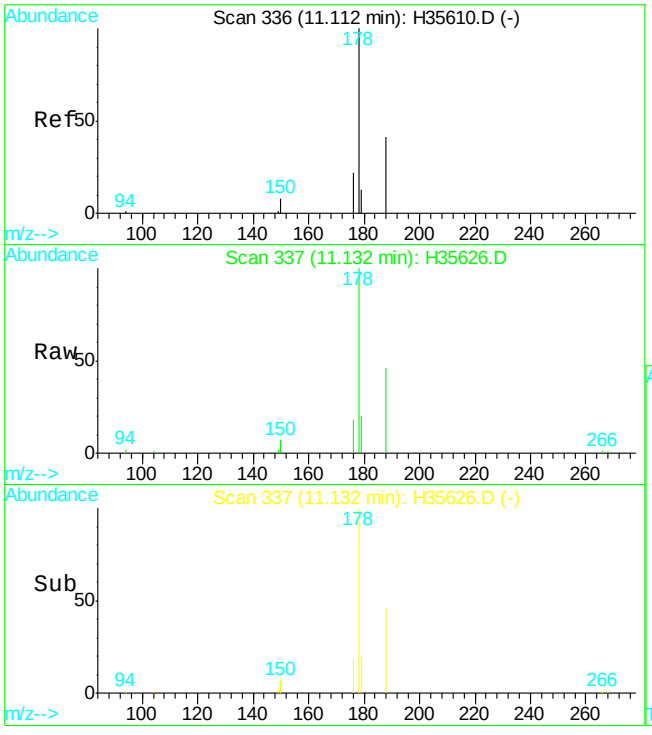


#14
Fluorene
Concen: 4.87 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.03 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:166 Resp: 93391

Ion	Ratio	Lower	Upper
166	100		
165	80.9	75.7	140.7
167	0.0	0.0	0.0

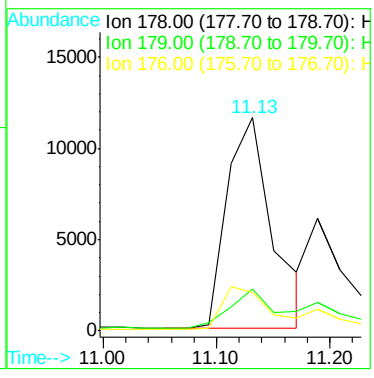


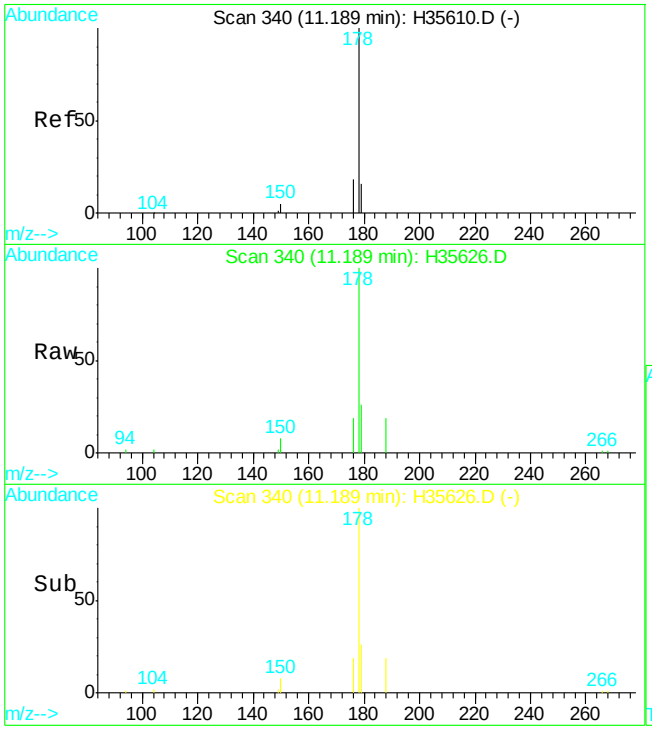


#18
Phenanthrene
Concen: 1.42 ppb
RT: 11.13 min Scan# 337
Delta R.T. 0.00 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:178 Resp: 32331

Ion	Ratio	Lower	Upper
178	100		
179	17.0	9.0	16.8#
176	16.8	16.0	29.8

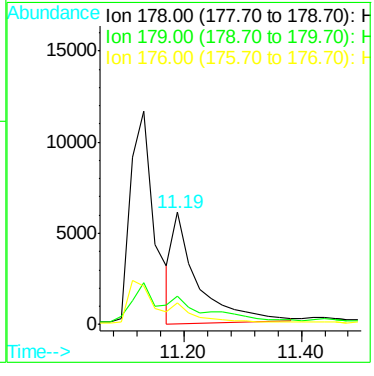


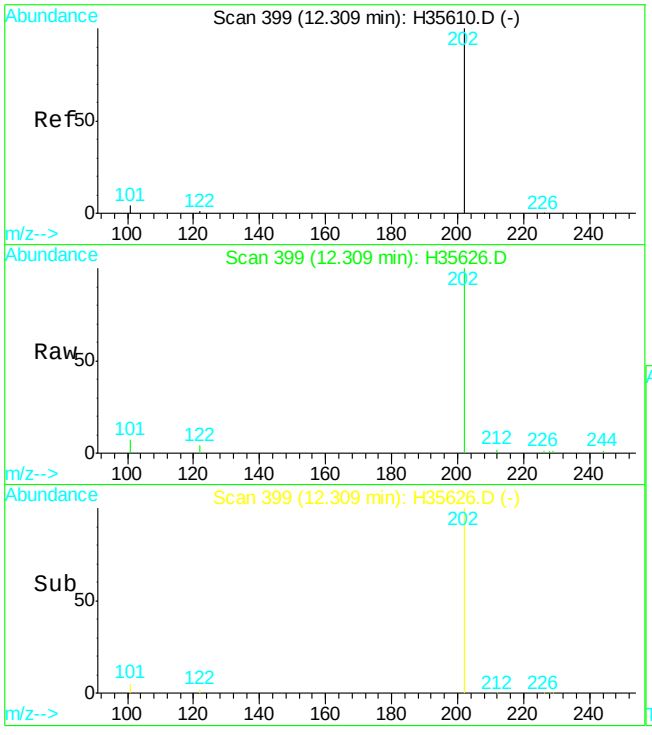


#19
Anthracene
Concen: 0.64 ppb m
RT: 11.19 min Scan# 340
Delta R.T. -0.02 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:178 Resp: 18644

Ion	Ratio	Lower	Upper
178	100		
179	25.7	11.4	21.2#
176	18.8	12.7	23.7

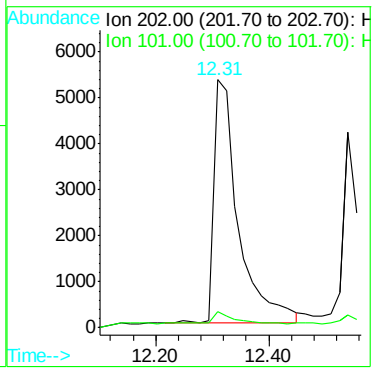


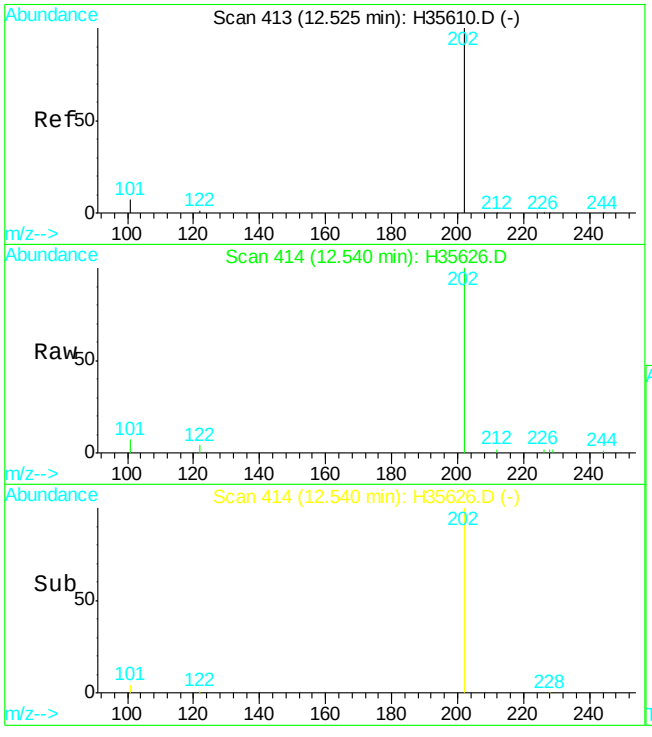


#20
Fluoranthene
Concen: 1.54 ppb
RT: 12.31 min Scan# 399
Delta R.T. -0.02 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:202 Resp: 16081

Ion	Ratio	Lower	Upper
202	100		
101	5.0	2.8	5.2

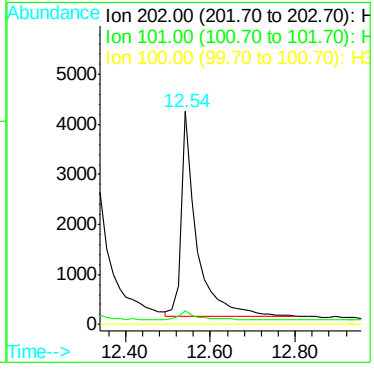




#22
Pyrene
Concen: 0.91 ppb
RT: 12.54 min Scan# 414
Delta R.T. 0.05 min
Lab File: H35626.D
Acq: 26 Oct 2009 9:05 pm

Tgt Ion:202 Resp: 10111

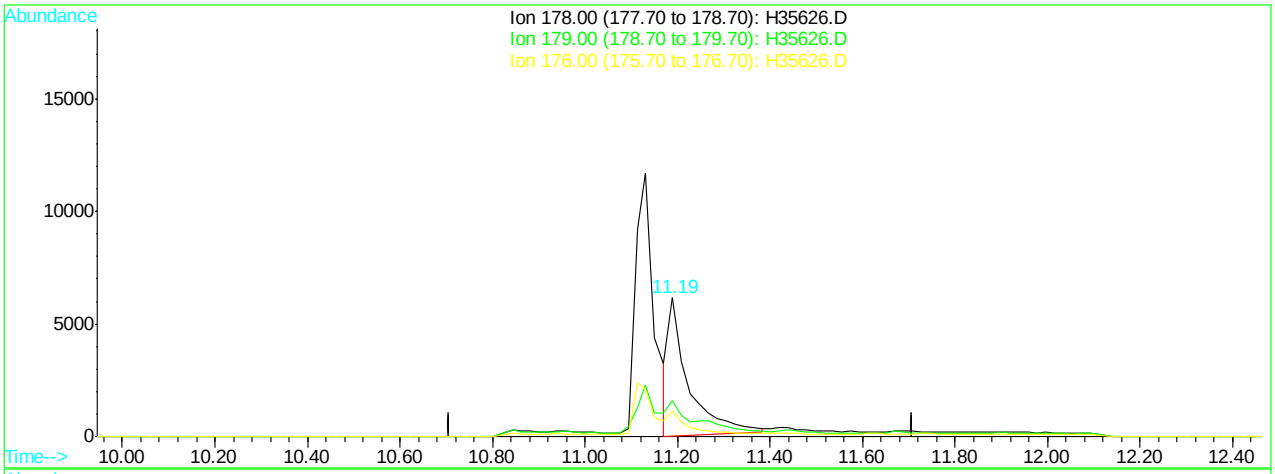
Ion	Ratio	Lower	Upper
202	100		
101	4.7	4.8	9.0#
100	0.0	0.0	0.0

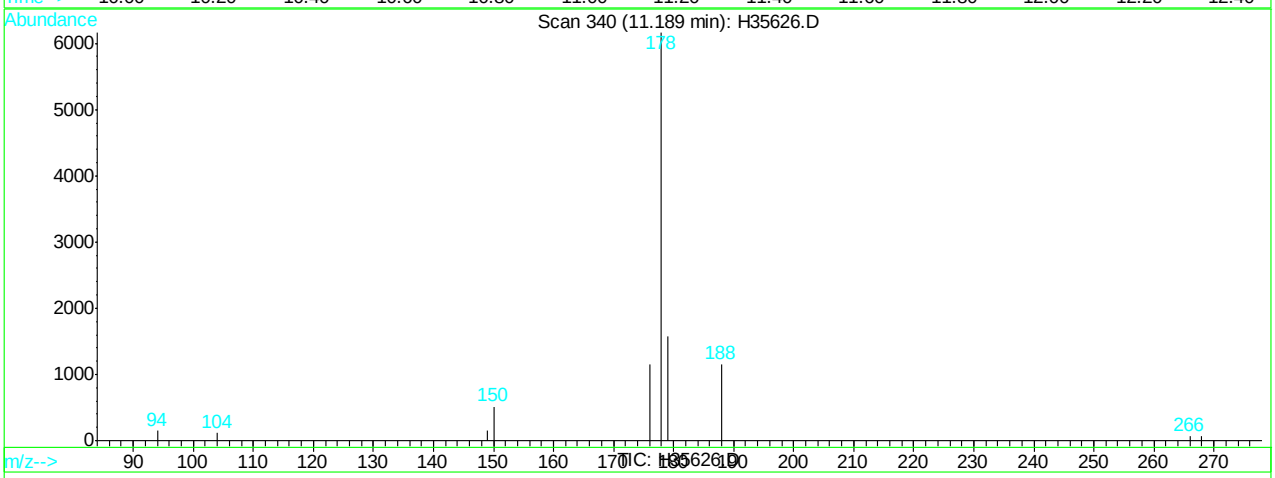


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35626.D Vial: 18
Acq On : 26 Oct 2009 9:05 pm Operator: sheilac
Sample : t39646-9,10x Inst : TXMSH
Misc : OP13271,EH1921,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 21:32 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 20:51:21 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.19min 0.64ppb m

response 18644

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	25.65#
176.00	18.20	18.77
0.00	0.00	0.00

H35626.D H10269SP.M Mon Oct 26 21:33:22 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:53:01 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	111903	4.00	ppb	0.00
4) Naphthalene-d8	7.74	136	359477m	4.00	ppb	0.20
9) Acenaphthene-d10	9.60	164	73219	4.00	ppb	0.03
15) Phenanthrene-d10	11.11	188	61616	4.00	ppb	0.02
21) Chrysene-d12	13.90	240	8642	4.00	ppb	0.00
26) Perylene-d12	16.37	264	4297	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	114880m	8.86	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 177.20%#		
10) 2-Fluorobiphenyl	8.90	172	1510026	34.13	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	= 682.60%#		
16) 2,4,6-Tribromophenol	10.44	330	439981	247.60	ppb	0.04
Spiked Amount 10.000	Range 10 - 123		Recovery	= 2476.00%#		
23) Terphenyl-d14	12.66	244	132290	42.87	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 857.40%#		

Target Compounds

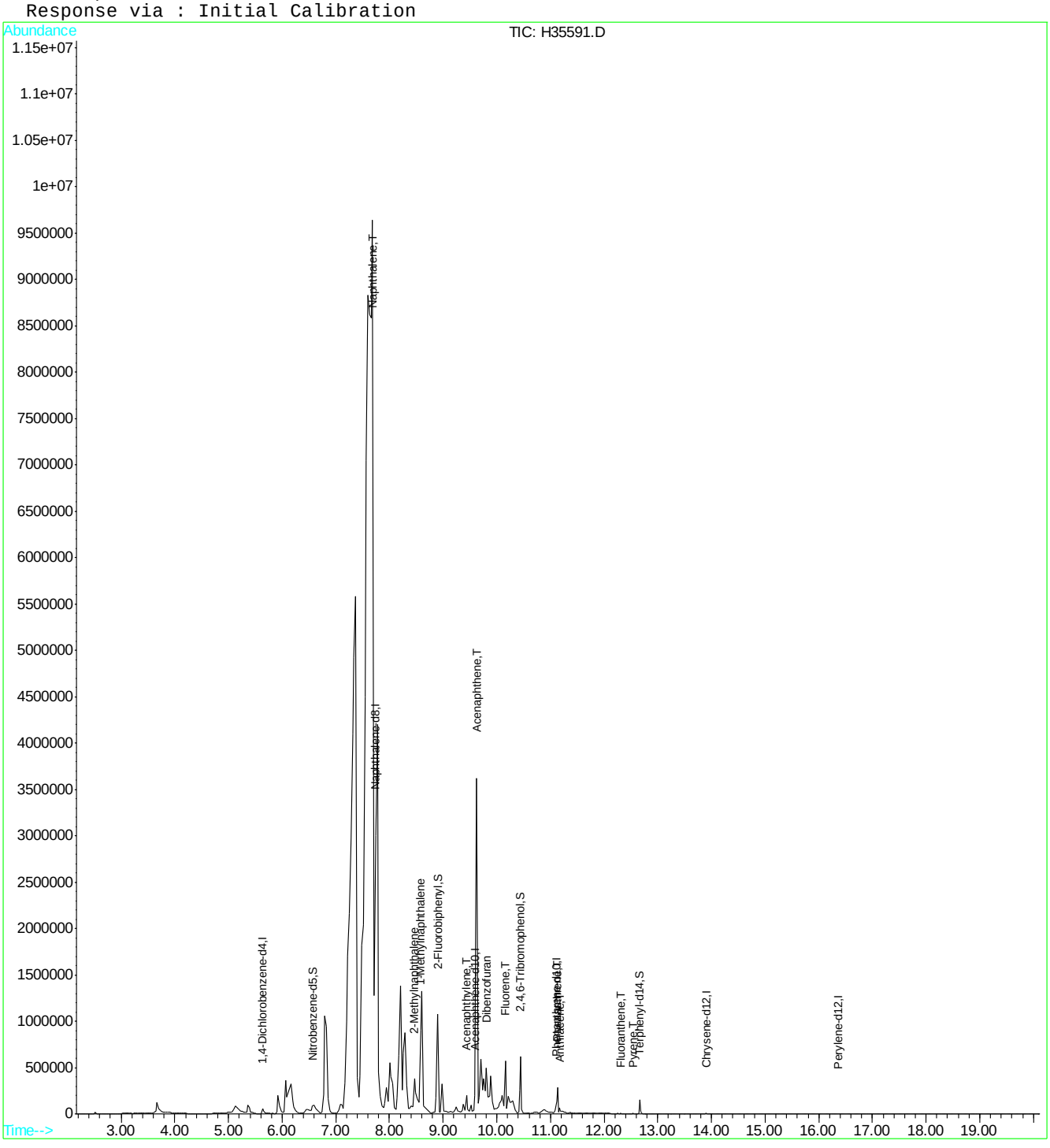
							Qvalue
6) Naphthalene	7.69	128	27991954	232.65	ppb		96
7) 2-Methylnaphthalene	8.46	142	300181	2.94	ppb	#	50
8) 1-Methylnaphthalene	8.58	142	634799	4.75	ppb	#	81
11) Acenaphthylene	9.43	152	85957	1.83	ppb	#	86
12) Acenaphthene	9.62	153	2285048	55.94	ppb	#	77
13) Dibenzofuran	9.81	168	684997	18.05	ppb	#	57
14) Fluorene	10.16	166	405275	20.92	ppb	#	65
18) Phenanthrene	11.13	178	306585m	11.39	ppb		
19) Anthracene	11.17	178	46584m	1.49	ppb		
20) Fluoranthene	12.31	202	11002	0.92	ppb	#	94
22) Pyrene	12.54	202	5846m	0.41	ppb		

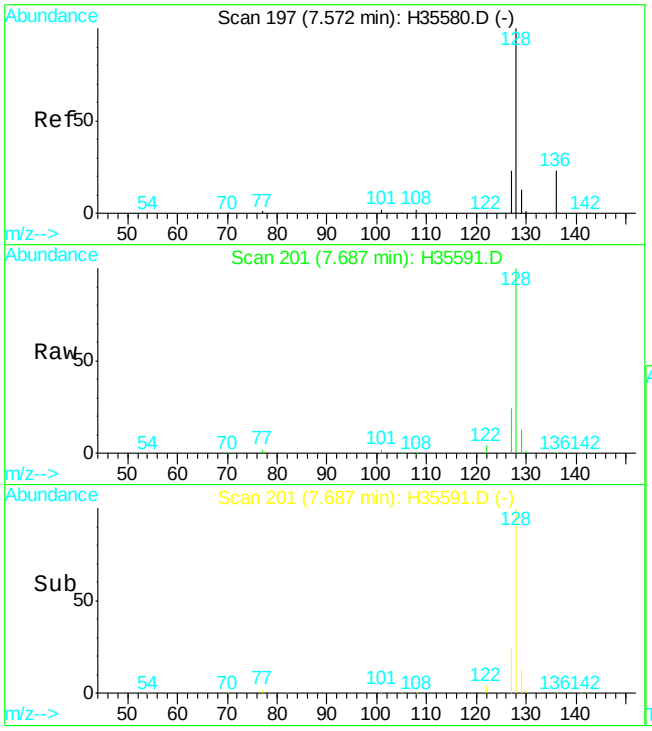
(#) = qualifier out of range (m) = manual integration
H35591.D H10239SP.M Mon Oct 26 12:37:11 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Initial Calibration

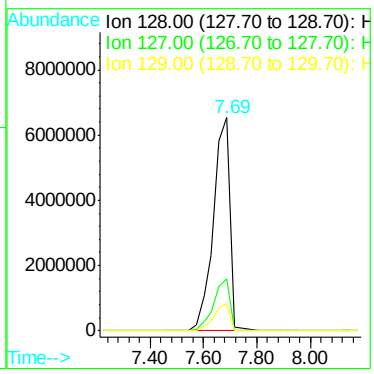


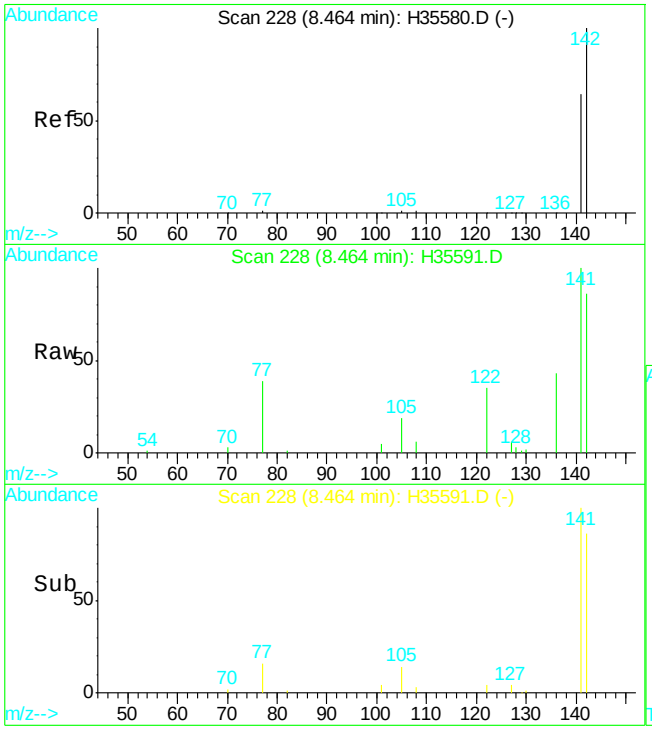


#6
Naphthalene
Concen: 232.65 ppb
RT: 7.69 min Scan# 201
Delta R.T. 0.11 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:128 Resp:27991954

Ion	Ratio	Lower	Upper
128	100		
127	24.2	15.3	28.5
129	12.8	8.5	15.9

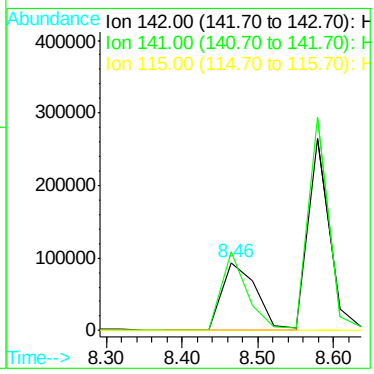




#7
2-Methylnaphthalene
Concen: 2.94 ppb
RT: 8.46 min Scan# 228
Delta R.T. 0.00 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

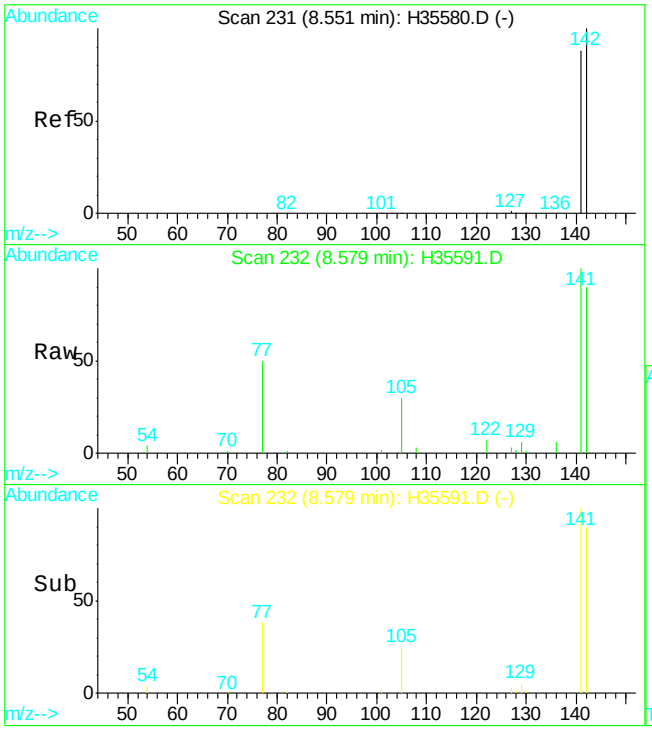
Tgt Ion:142 Resp: 300181

Ion	Ratio	Lower	Upper
142	100		
141	85.9	104.0	193.1#
115	0.0	0.0	0.0



8.1.45

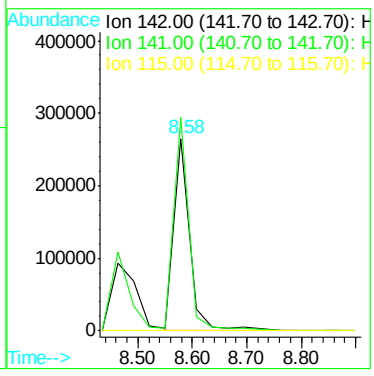
8

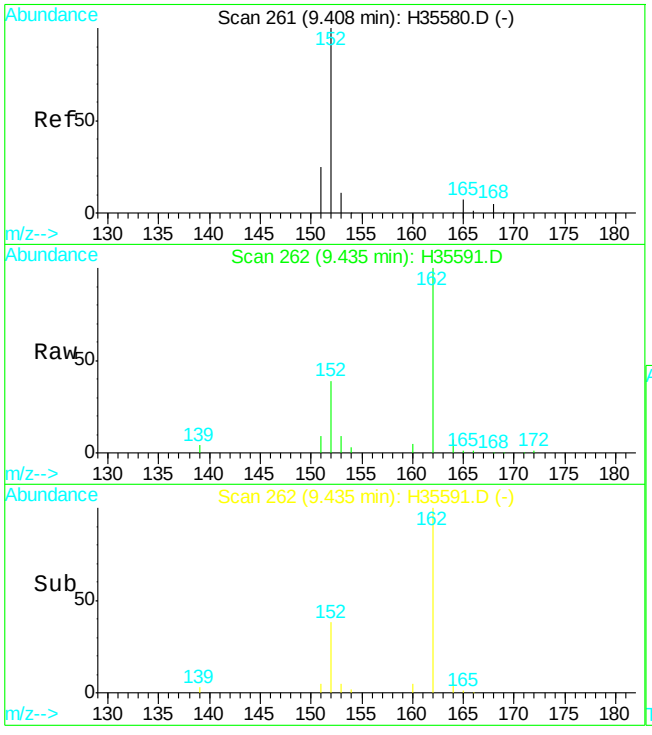


#8
1-Methylnaphthalene
Concen: 4.75 ppb
RT: 8.58 min Scan# 232
Delta R.T. 0.03 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:142 Resp: 634799

Ion	Ratio	Lower	Upper
142	100		
141	103.9	60.5	112.5
115	0.0	0.0	0.0

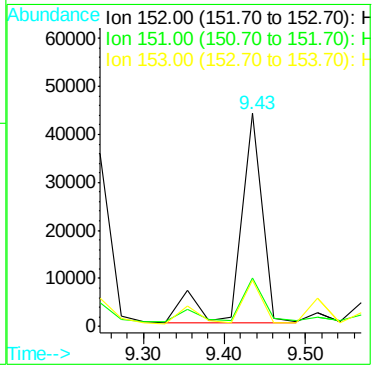


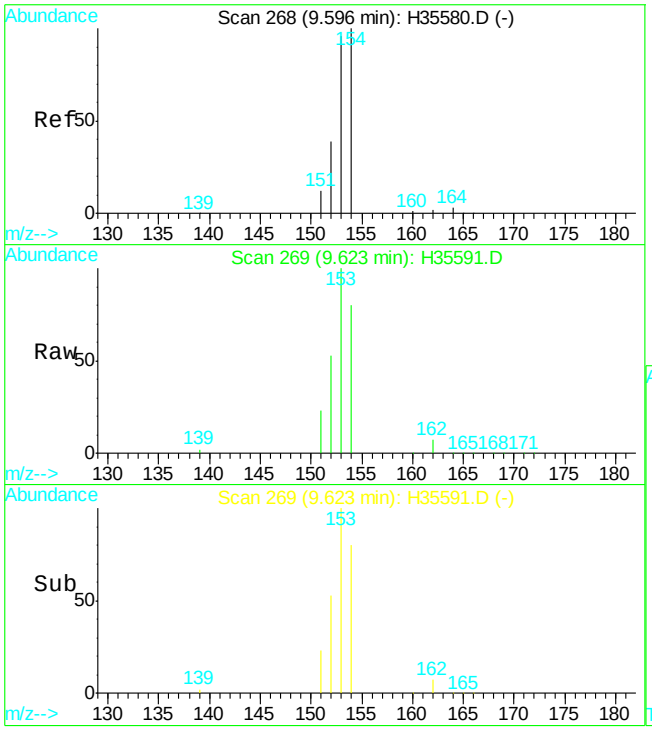


#11
Acenaphthylene
Concen: 1.83 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:152 Resp: 85957

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.8	33.0
153	20.7	7.4	13.8#

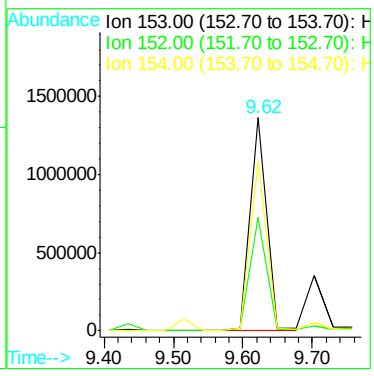


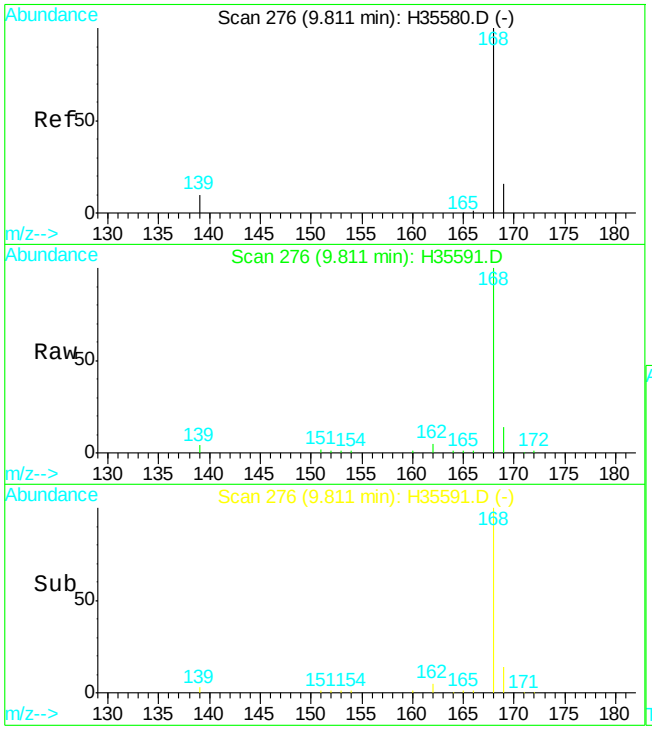


#12
Acenaphthene
Concen: 55.94 ppb
RT: 9.62 min Scan# 269
Delta R.T. 0.03 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:153 Resp: 2285048

Ion	Ratio	Lower	Upper
153	100		
152	53.4	28.7	53.3#
154	79.9	72.9	135.5

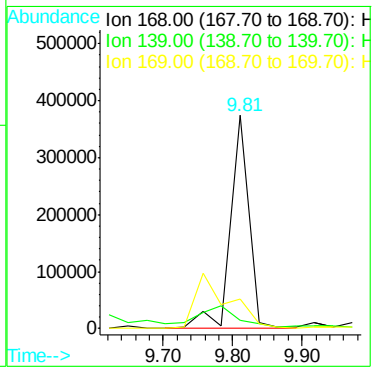


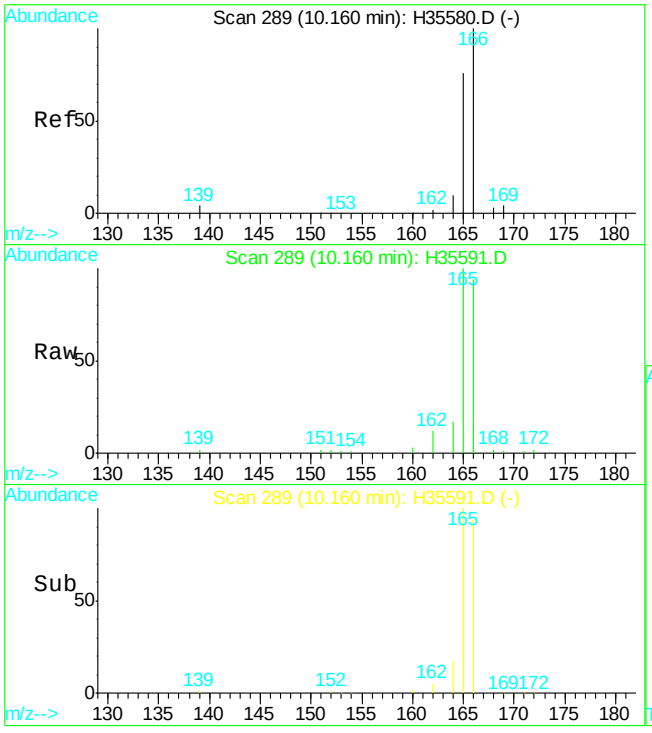


#13
Dibenzofuran
Concen: 18.05 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:168 Resp: 684997

Ion	Ratio	Lower	Upper
168	100		
139	27.4	33.7	62.5#
169	48.0	9.8	18.2#

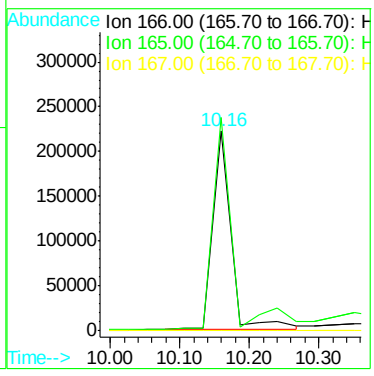


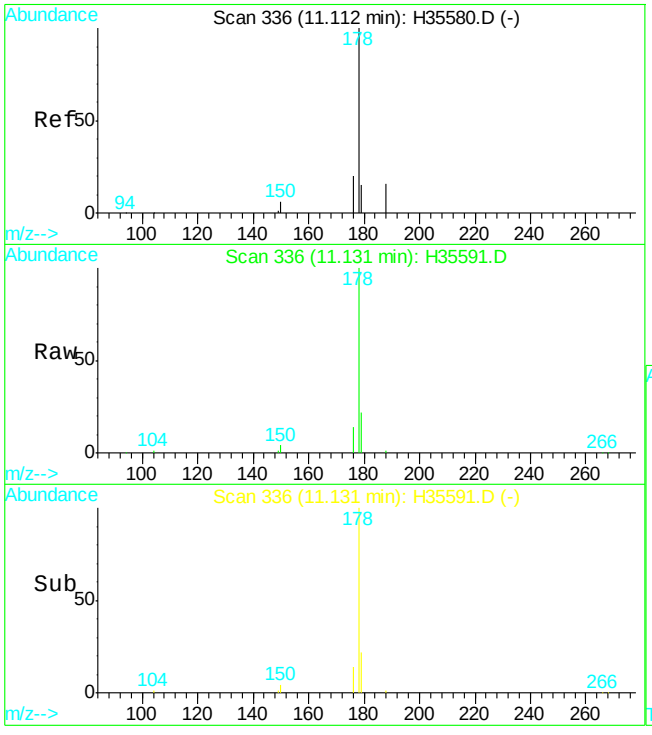


#14
Fluorene
Concen: 20.92 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:166 Resp: 405275

Ion	Ratio	Lower	Upper
166	100		
165	105.6	53.1	98.7#
167	0.0	0.0	0.0

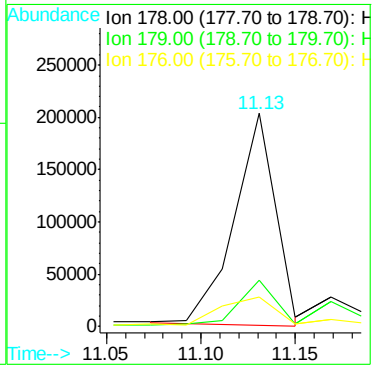


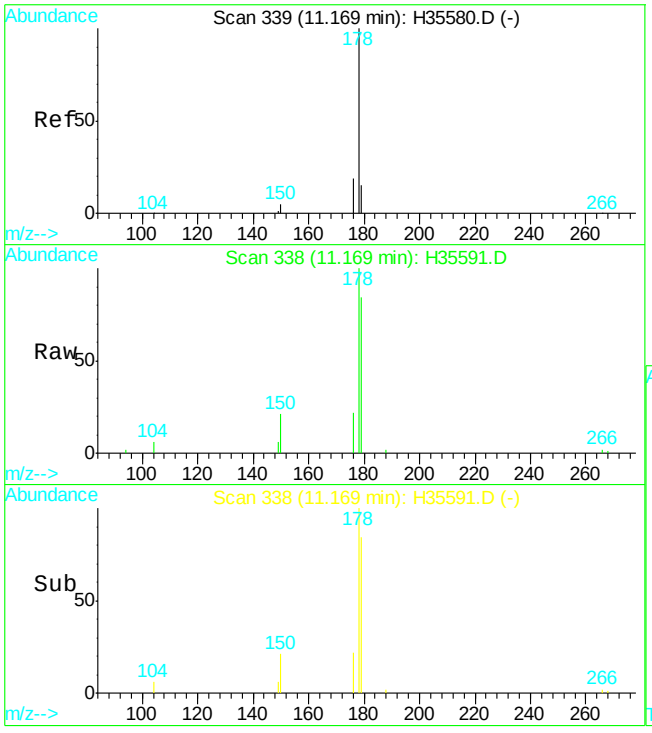


#18
Phenanthrene
Concen: 11.39 ppb m
RT: 11.13 min Scan# 336
Delta R.T. 0.02 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:178 Resp: 306585

Ion	Ratio	Lower	Upper
178	100		
179	21.6	10.6	19.6#
176	13.7	13.7	25.5

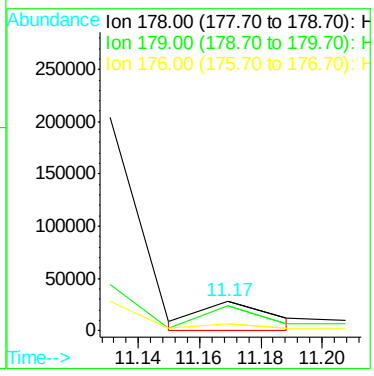


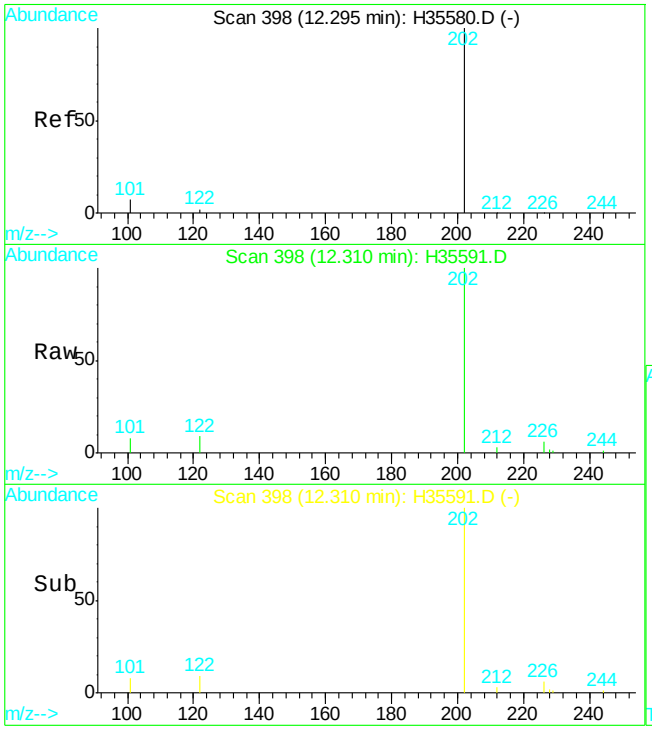


#19
Anthracene
Concen: 1.49 ppb m
RT: 11.17 min Scan# 338
Delta R.T. -0.00 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:178 Resp: 46584

Ion	Ratio	Lower	Upper
178	100		
179	84.3	10.6	19.6#
176	21.9	13.3	24.7

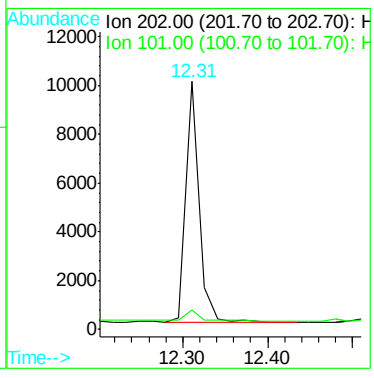


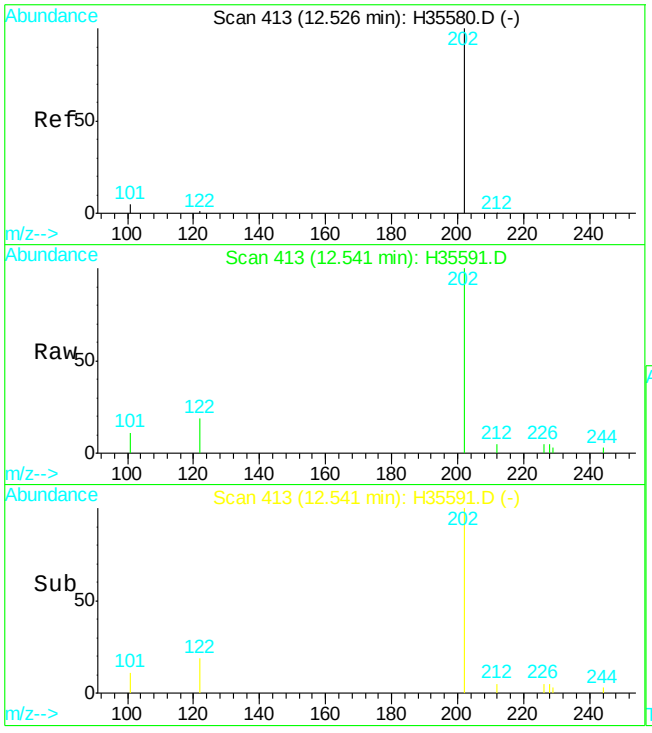


#20
Fluoranthene
Concen: 0.92 ppb
RT: 12.31 min Scan# 398
Delta R.T. 0.02 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:202 Resp: 11002

Ion	Ratio	Lower	Upper
202	100		
101	4.5	4.6	8.6#

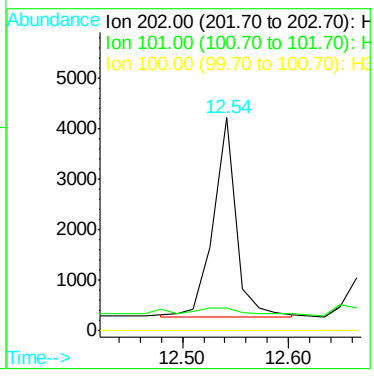




#22
Pyrene
Concen: 0.41 ppb m
RT: 12.54 min Scan# 413
Delta R.T. 0.02 min
Lab File: H35591.D
Acq: 23 Oct 2009 4:34 pm

Tgt Ion:202 Resp: 5846

Ion	Ratio	Lower	Upper
202	100		
101	10.8	3.5	6.5#
100	0.0	0.0	0.0



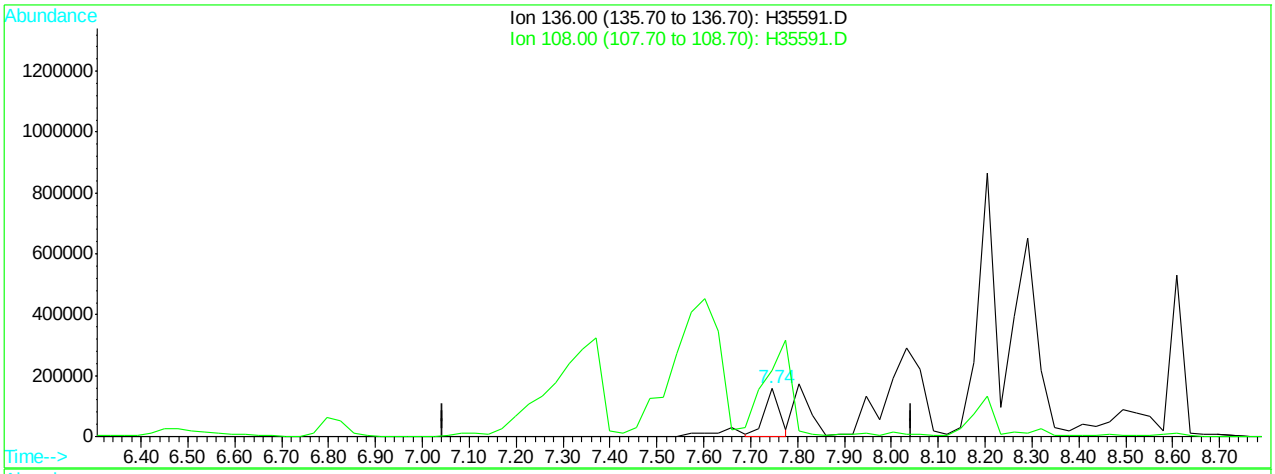
8.1.45

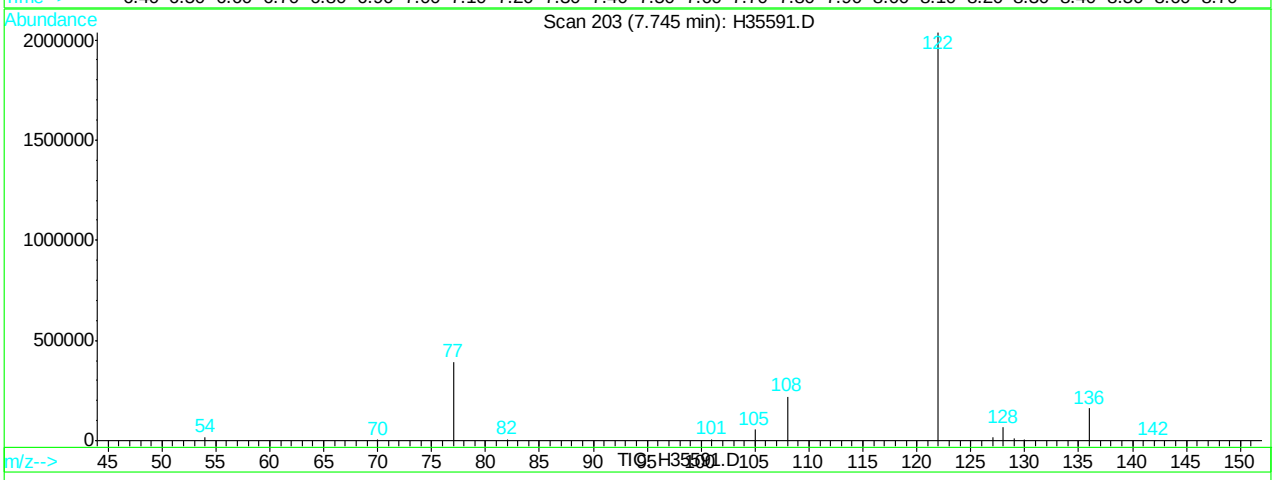
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(4) Naphthalene-d8 (I)

7.74min 4.00ppb m

response 359477

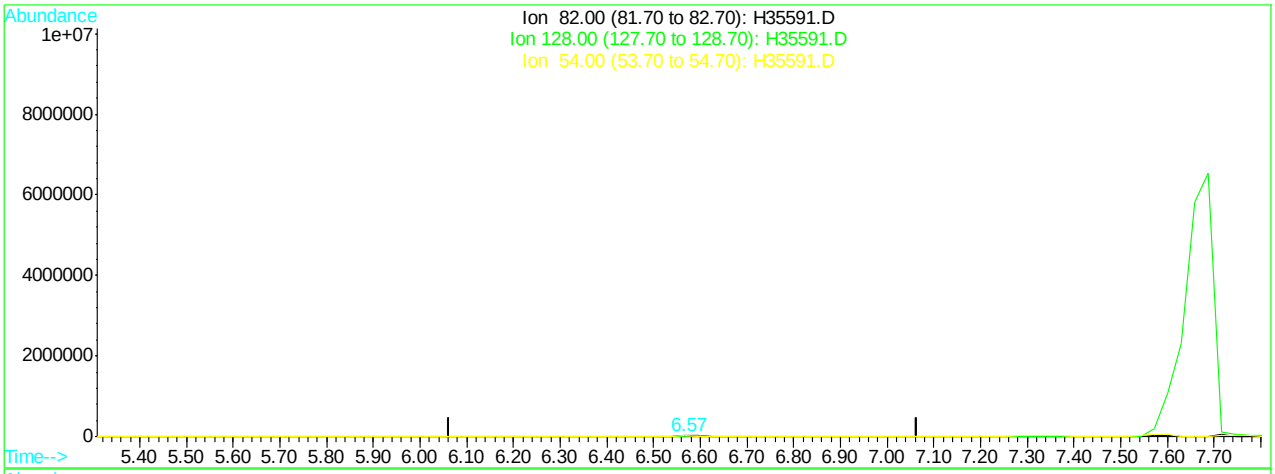
Ion	Exp%	Act%
136.00	100	100
108.00	10.80	136.63#
0.00	0.00	0.00
0.00	0.00	0.00

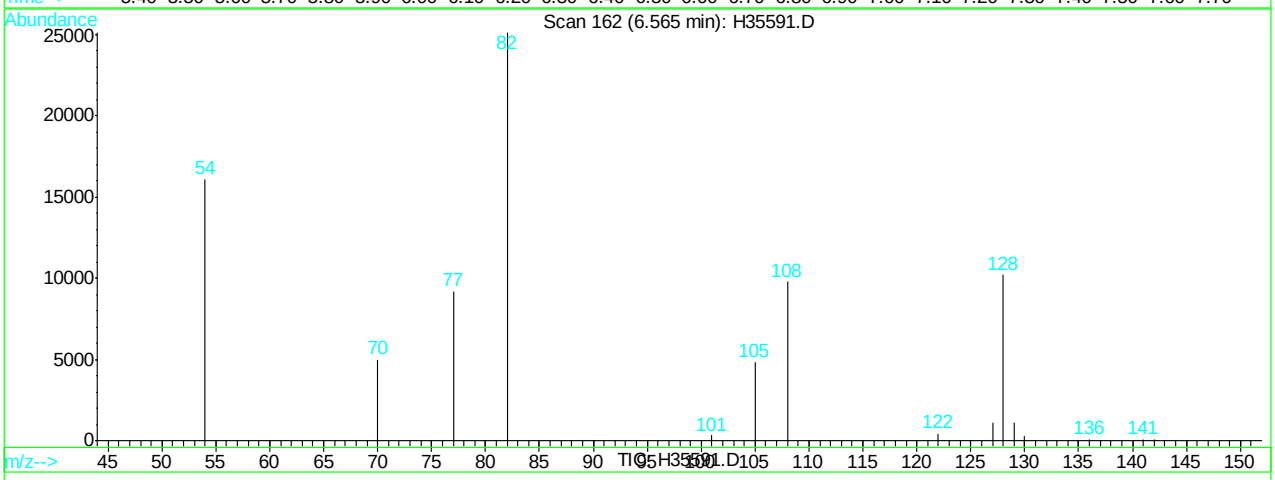
H35591.D H10239SP.M Mon Oct 26 12:37:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.57min 8.86ppb

response 114880

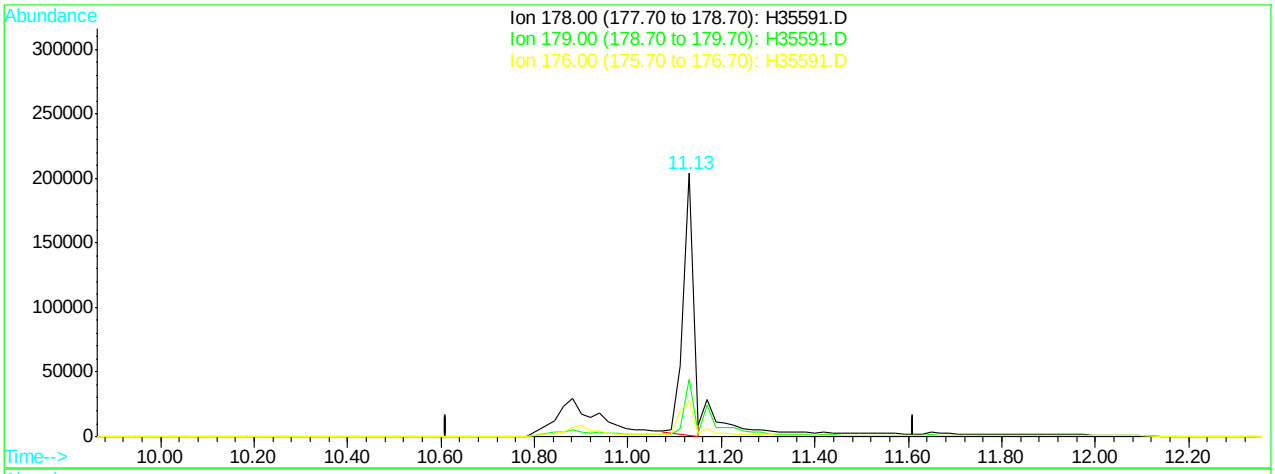
Ion	Exp%	Act%
82.00	100	100
128.00	121.70	40.61#
54.00	39.20	64.07#
0.00	0.00	0.00

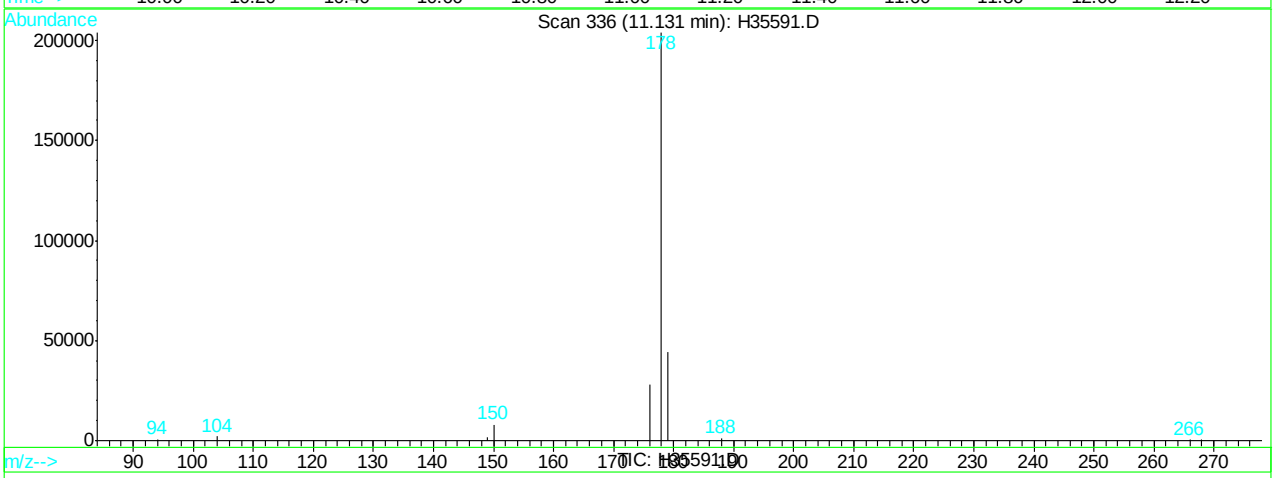
H35591.D H10239SP.M Mon Oct 26 12:37:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.13min 11.39ppb m

response 306585

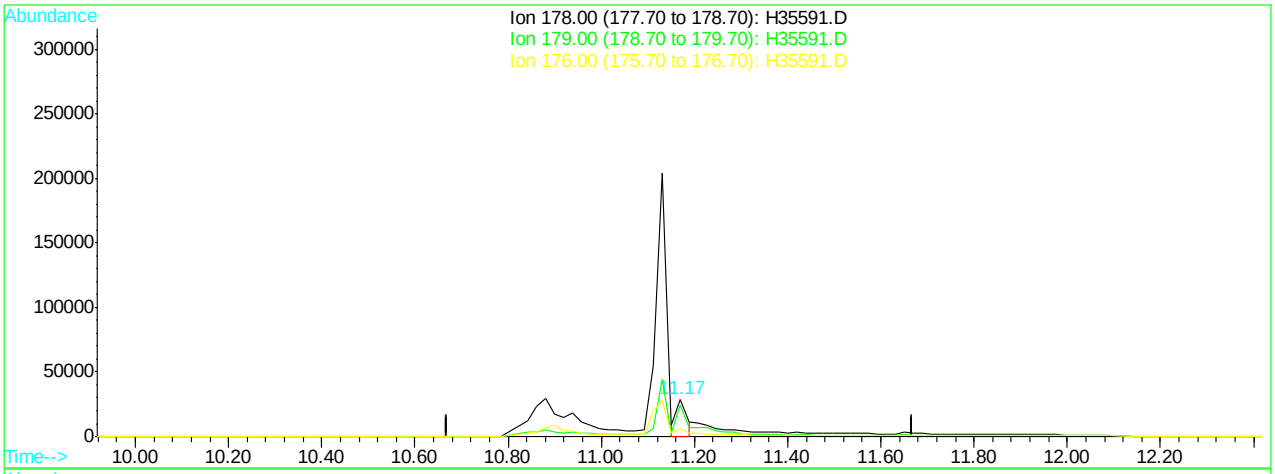
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	21.60#
176.00	19.60	13.73
0.00	0.00	0.00

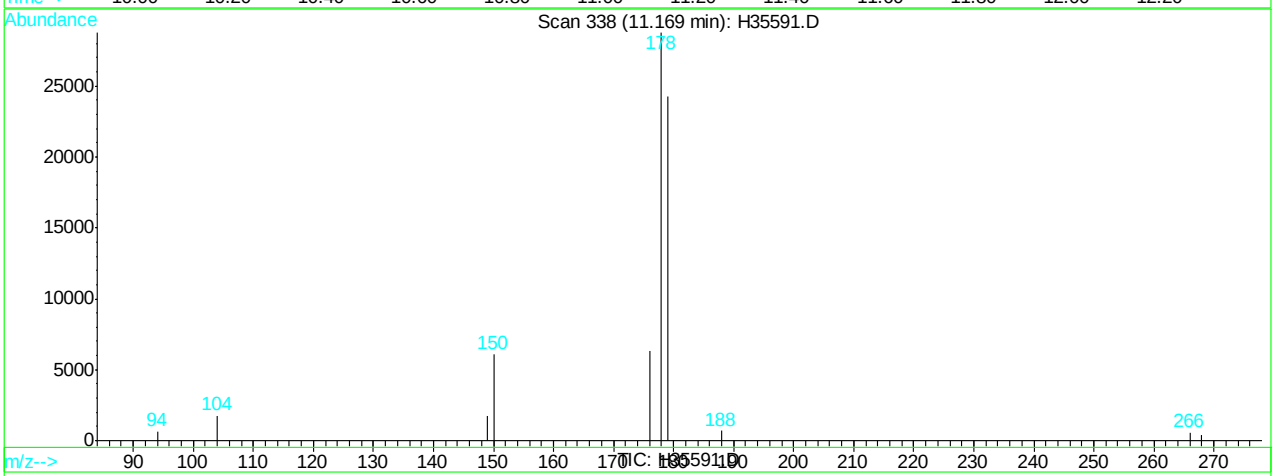
H35591.D H10239SP.M Mon Oct 26 12:37:30 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 1.49ppb m

response 46584

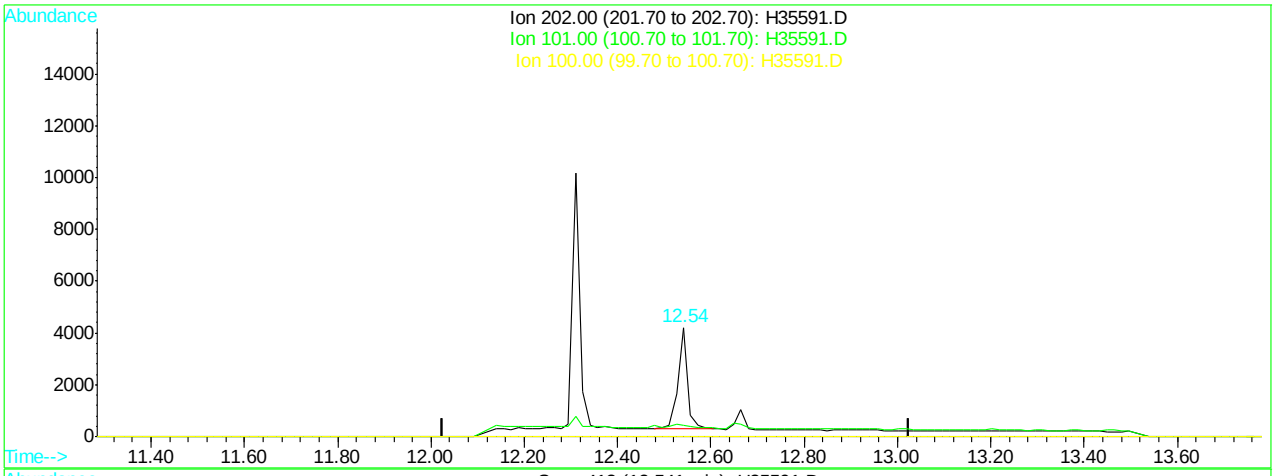
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	84.26#
176.00	19.00	21.89
0.00	0.00	0.00

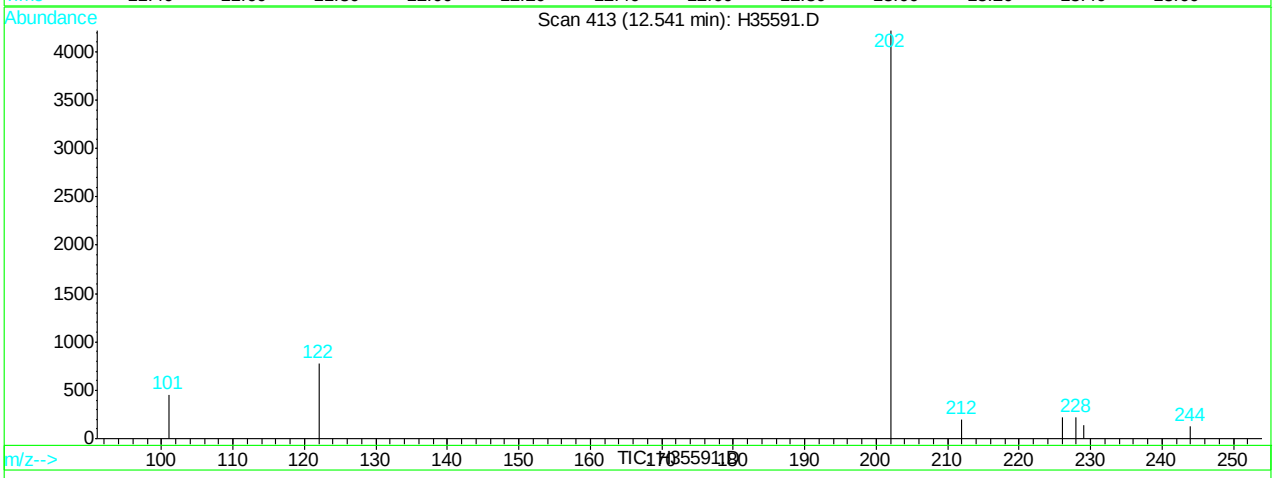
H35591.D H10239SP.M Mon Oct 26 12:37:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35591.D Vial: 13
Acq On : 23 Oct 2009 4:34 pm Operator: sheilac
Sample : t39646-10 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:35 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.54min 0.41ppb m

response 5846

Ion	Exp%	Act%
202.00	100	100
101.00	5.00	10.76#
100.00	0.00	0.00
0.00	0.00	0.00

H35591.D H10239SP.M Mon Oct 26 12:37:37 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35593.D Vial: 15
Acq On : 23 Oct 2009 5:31 pm Operator: sheilac
Sample : t39646-10,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:25 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:53:01 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	88107	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	69180	4.00	ppb	0.03
9) Acenaphthene-d10	9.57	164	72035	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	92496	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	14676	4.00	ppb	0.00
26) Perylene-d12	16.40	264	3601	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	20151	8.05	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 161.00%#			
10) 2-Fluorobiphenyl	8.87	172	296199	9.03	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 180.60%#			
16) 2,4,6-Tribromophenol	10.40	330	72285	27.10	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 271.00%#			
23) Terphenyl-d14	12.66	244	71450	16.47	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 329.40%#			

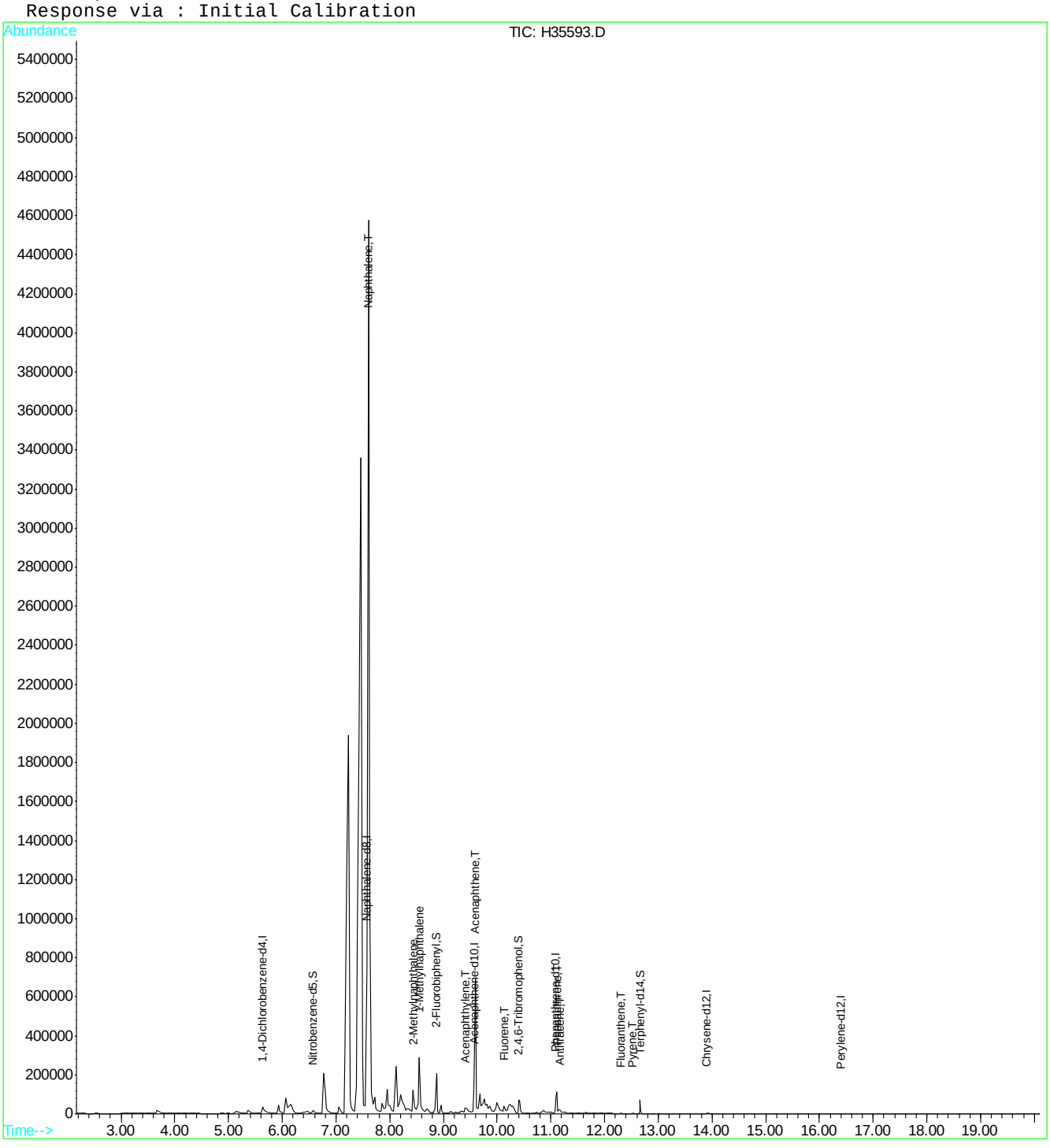
Target Compounds							Qvalue
6) Naphthalene	7.60	128	6198806	267.71	ppb		97
7) 2-Methylnaphthalene	8.44	142	79734	3.93	ppb	#	73
8) 1-Methylnaphthalene	8.55	142	229412	8.91	ppb	#	94
11) Acenaphthylene	9.41	152	9741	0.28	ppb	#	90
12) Acenaphthene	9.60	153	447363	11.13	ppb		82
14) Fluorene	10.13	166	19475	1.02	ppb	#	1
18) Phenanthrene	11.11	178	94698m	2.34	ppb		
19) Anthracene	11.17	178	20027m	0.43	ppb		
20) Fluoranthene	12.31	202	4154	0.33	ppb	#	88
22) Pyrene	12.53	202	2831m	0.12	ppb		

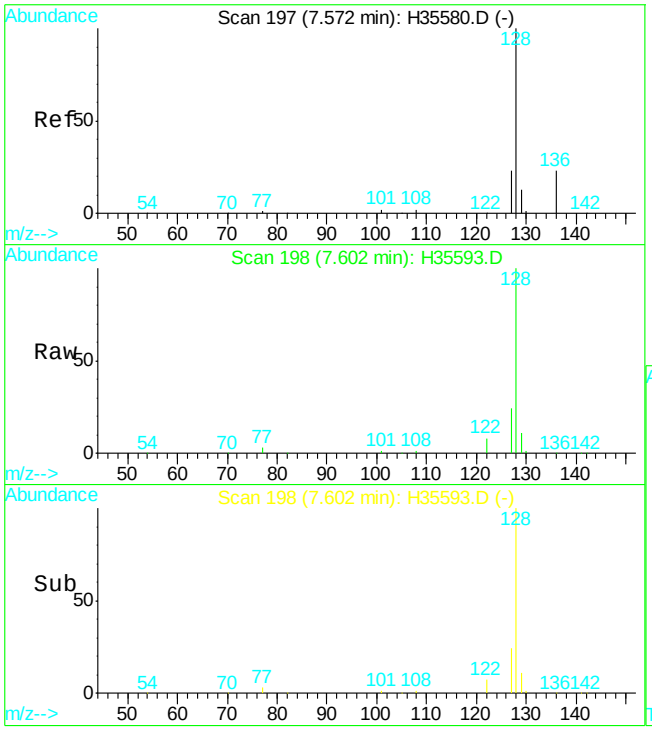
(#) = qualifier out of range (m) = manual integration
H35593.D H10239SP.M Mon Oct 26 12:26:30 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35593.D Vial: 15
Acq On : 23 Oct 2009 5:31 pm Operator: sheilac
Sample : t39646-10,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:25 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Initial Calibration

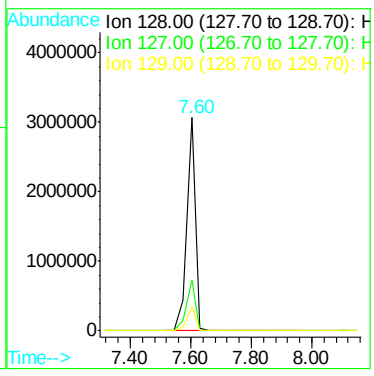


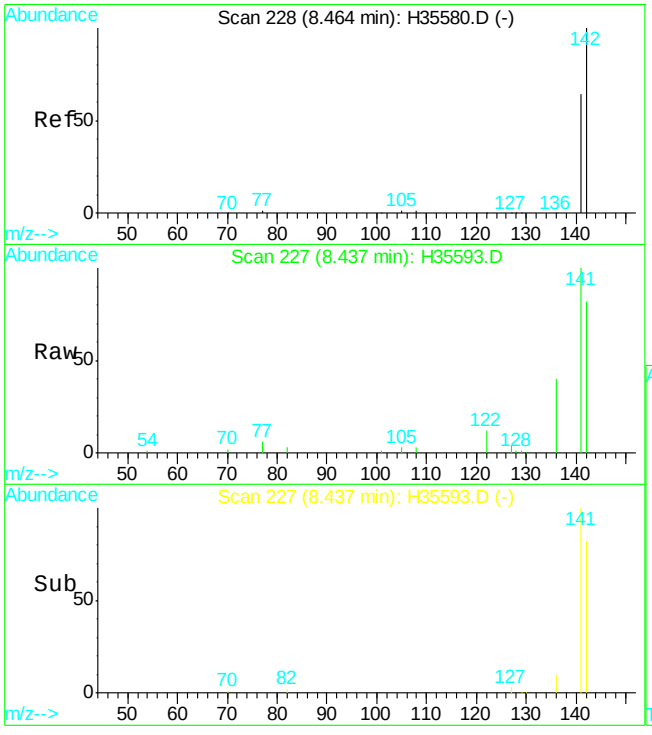


#6
Naphthalene
Concen: 267.71 ppb
RT: 7.60 min Scan# 198
Delta R.T. 0.03 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:128 Resp: 6198806

Ion	Ratio	Lower	Upper
128	100		
127	23.7	15.3	28.5
129	11.5	8.5	15.9

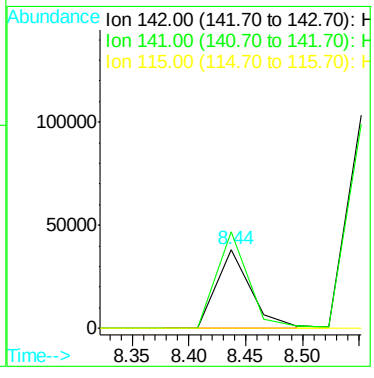




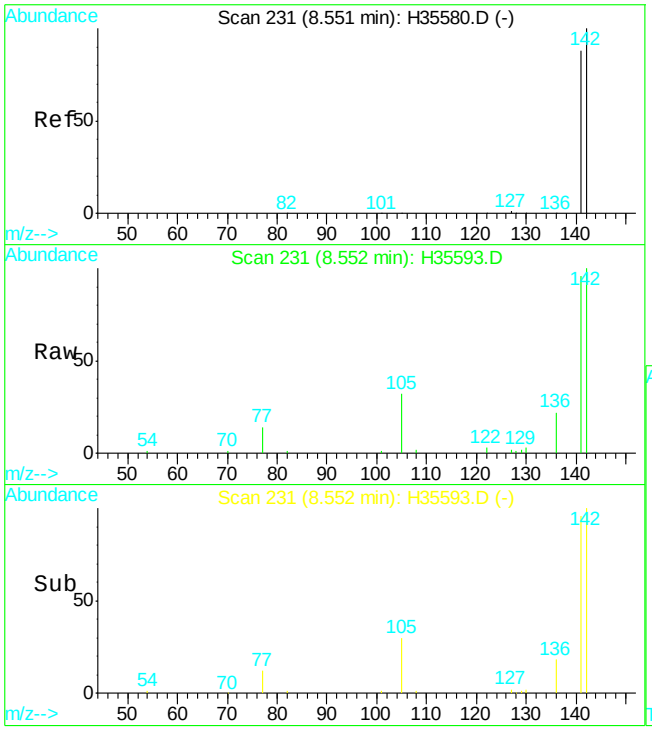
#7
2-Methylnaphthalene
Concen: 3.93 ppb
RT: 8.44 min Scan# 227
Delta R.T. -0.03 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:142 Resp: 79734

Ion	Ratio	Lower	Upper
142	100		
141	114.5	104.0	193.1
115	0.0	0.0	0.0



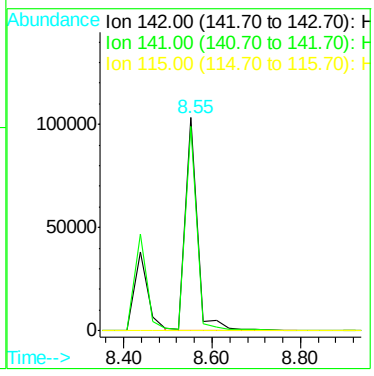
8.1.46
8

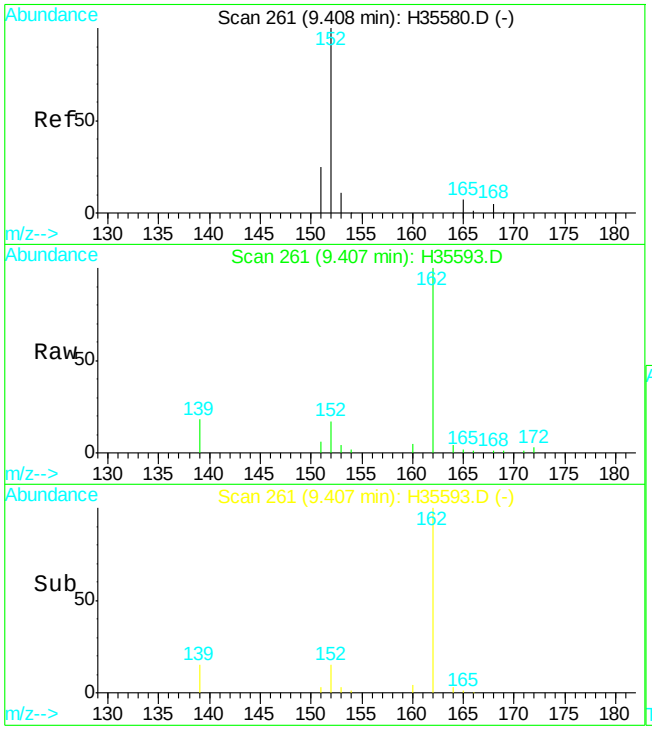


#8
1-Methylnaphthalene
Concen: 8.91 ppb
RT: 8.55 min Scan# 231
Delta R.T. 0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:142 Resp: 229412

Ion	Ratio	Lower	Upper
142	100		
141	92.4	60.5	112.5
115	0.0	0.0	0.0

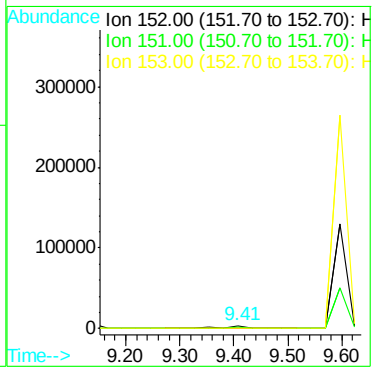


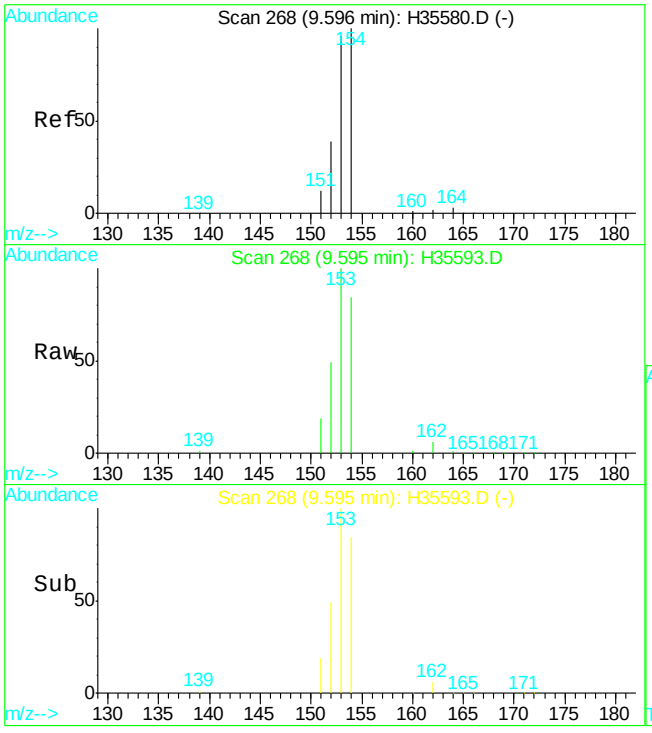


#11
Acenaphthylene
Concen: 0.28 ppb
RT: 9.41 min Scan# 261
Delta R.T. 0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:152 Resp: 9741

Ion	Ratio	Lower	Upper
152	100		
151	29.8	17.8	33.0
153	15.4	7.4	13.8#

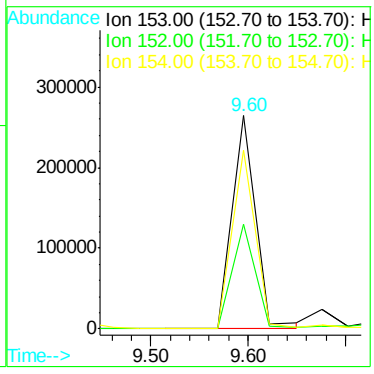


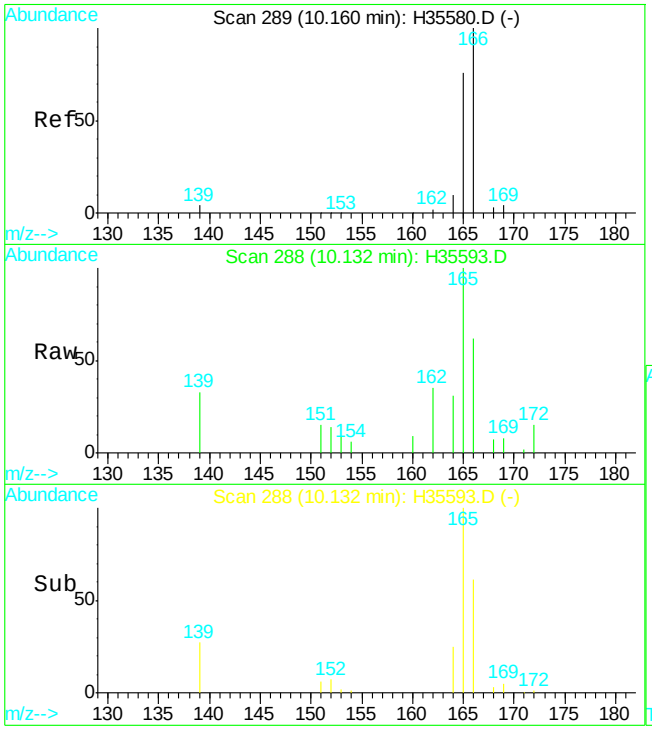


#12
Acenaphthene
Concen: 11.13 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:153 Resp: 447363

Ion	Ratio	Lower	Upper
153	100		
152	49.6	28.7	53.3
154	84.7	72.9	135.5

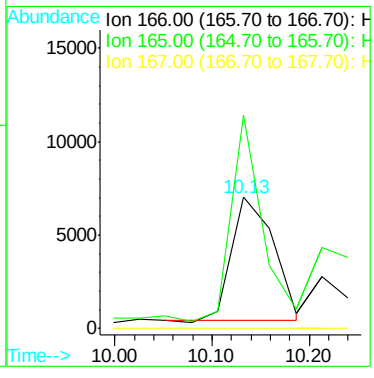


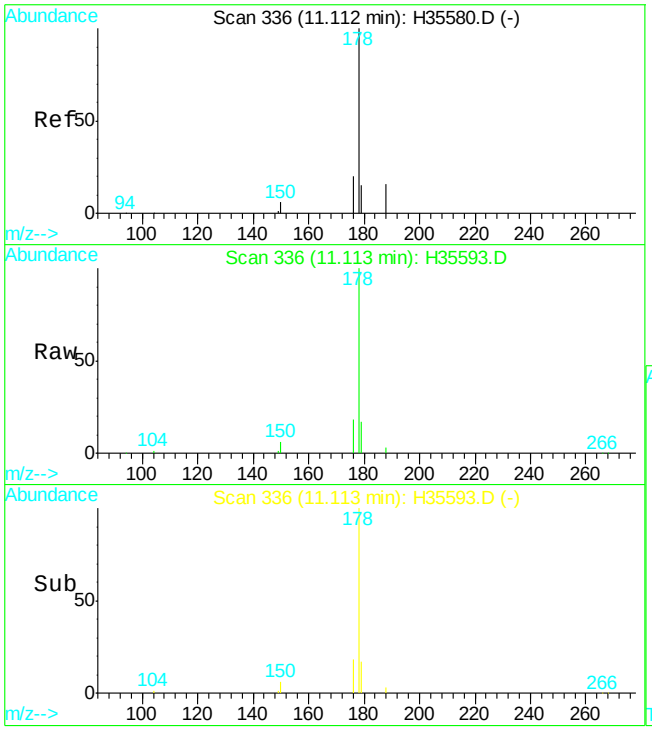


#14
Fluorene
Concen: 1.02 ppb
RT: 10.13 min Scan# 288
Delta R.T. -0.03 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:166 Resp: 19475

Ion	Ratio	Lower	Upper
166	100		
165	164.5	53.1	98.7#
167	0.0	0.0	0.0

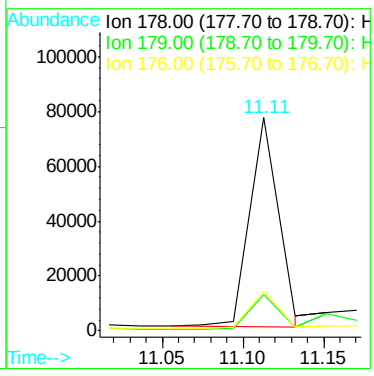


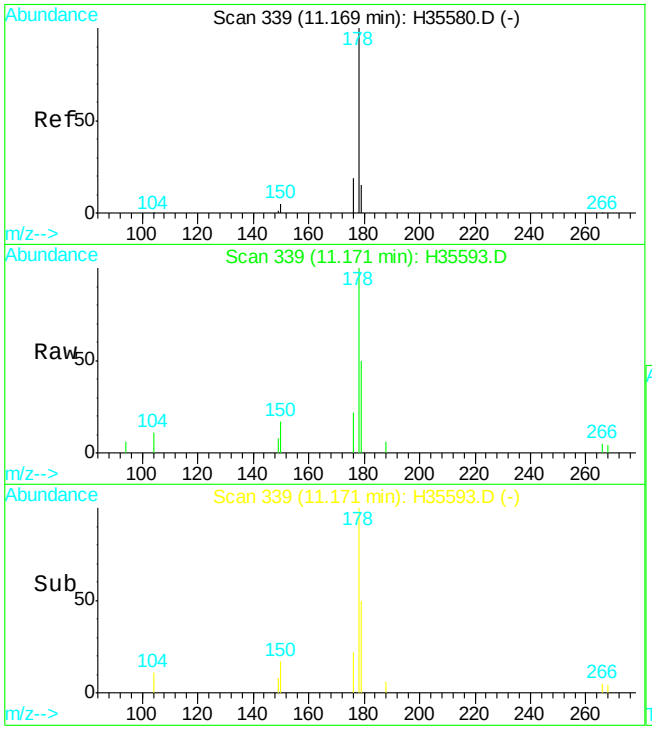


#18
Phenanthrene
Concen: 2.34 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:178 Resp: 94698

Ion	Ratio	Lower	Upper
178	100		
179	16.8	10.6	19.6
176	18.5	13.7	25.5

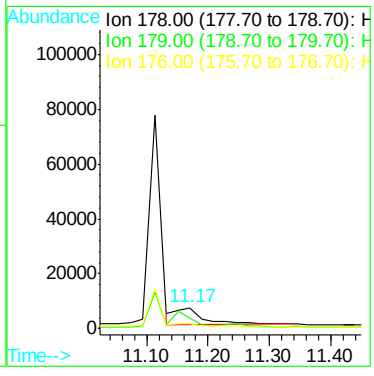


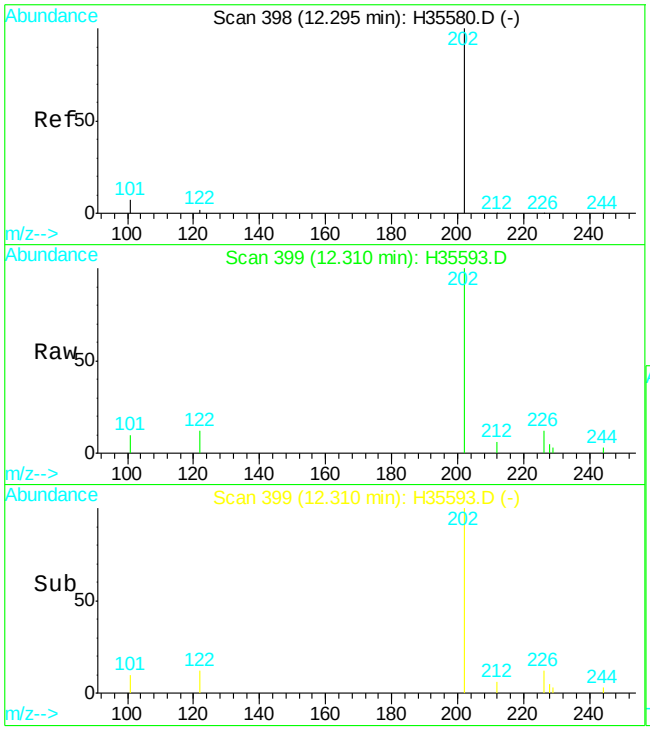


#19
Anthracene
Concen: 0.43 ppb m
RT: 11.17 min Scan# 339
Delta R.T. 0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:178 Resp: 20027

Ion	Ratio	Lower	Upper
178	100		
179	49.9	10.6	19.6#
176	22.3	13.3	24.7

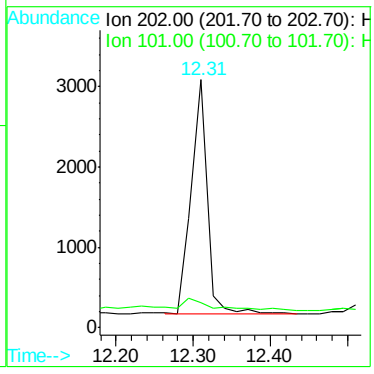


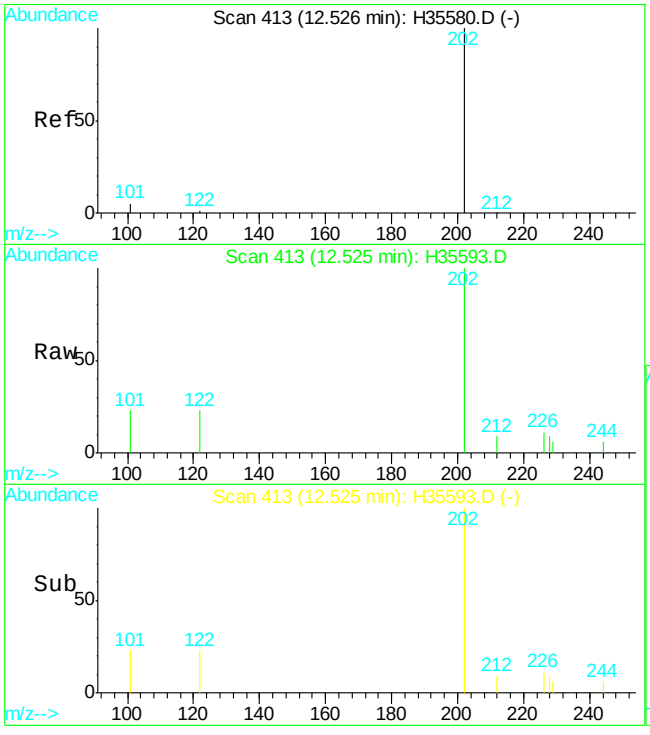


#20
Fluoranthene
Concen: 0.33 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:202 Resp: 4154

Ion	Ratio	Lower	Upper
202	100		
101	2.5	4.6	8.6#

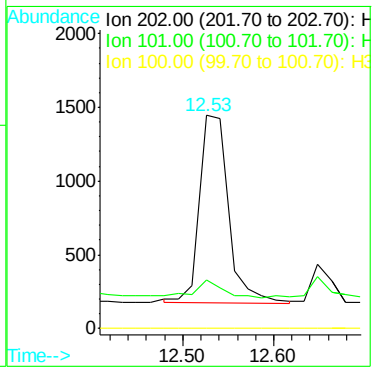




#22
Pyrene
Concen: 0.12 ppb m
RT: 12.53 min Scan# 413
Delta R.T. -0.00 min
Lab File: H35593.D
Acq: 23 Oct 2009 5:31 pm

Tgt Ion:202 Resp: 2831

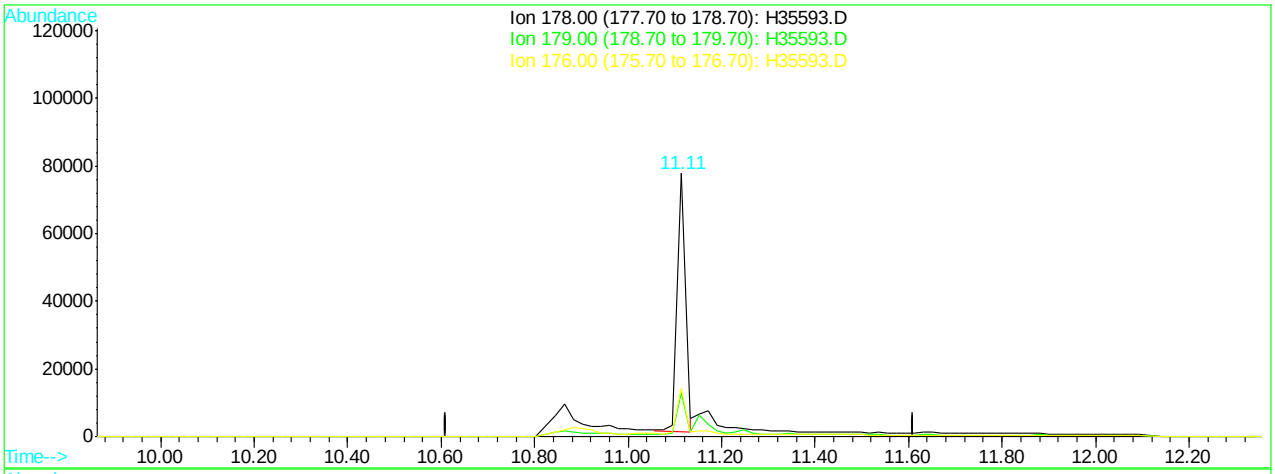
Ion	Ratio	Lower	Upper
202	100		
101	22.8	3.5	6.5#
100	0.0	0.0	0.0

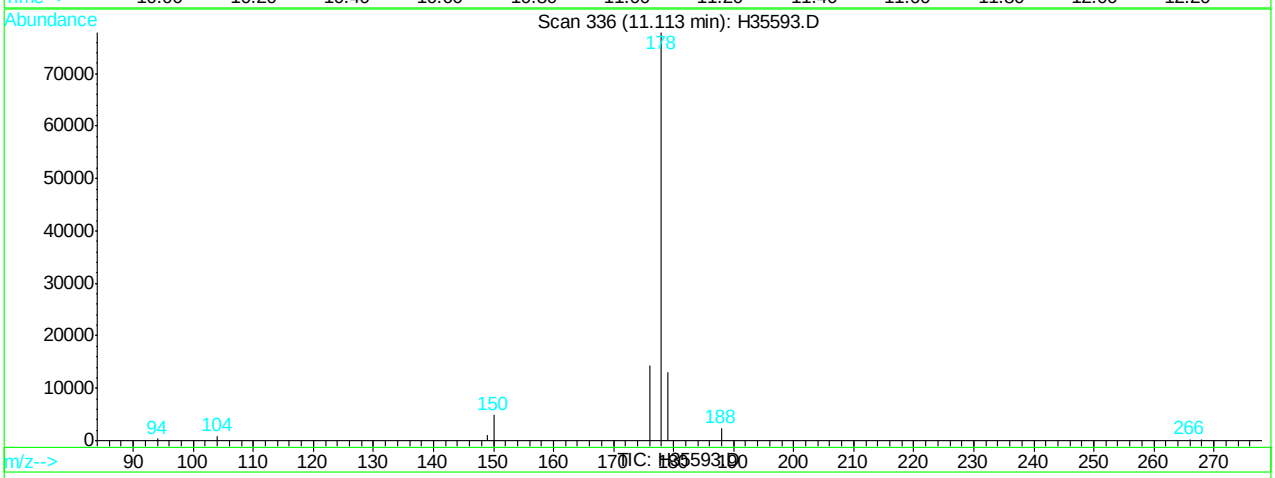


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35593.D Vial: 15
Acq On : 23 Oct 2009 5:31 pm Operator: sheilac
Sample : t39646-10,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 2.34ppb m

response 94698

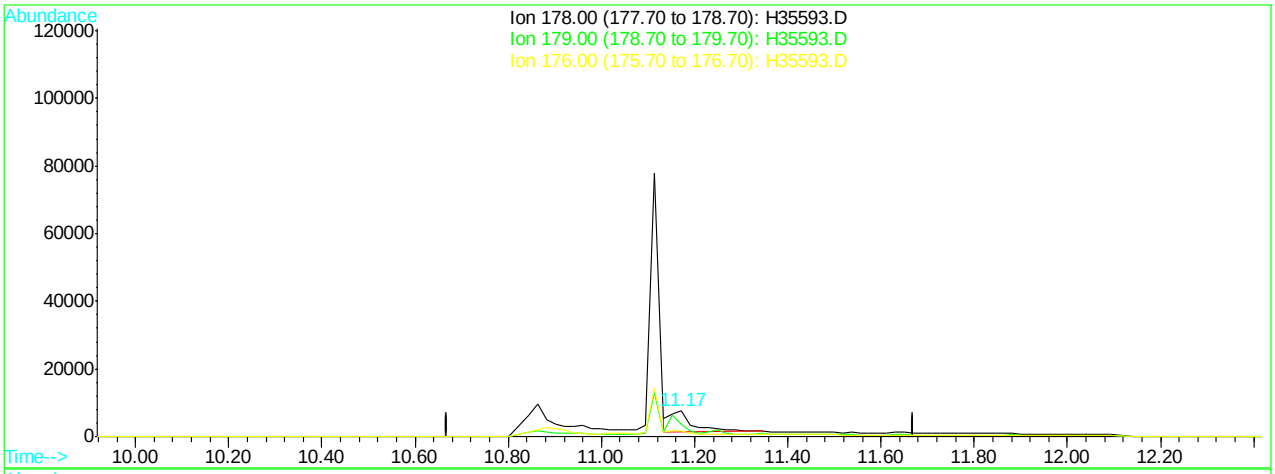
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	16.76
176.00	19.60	18.46
0.00	0.00	0.00

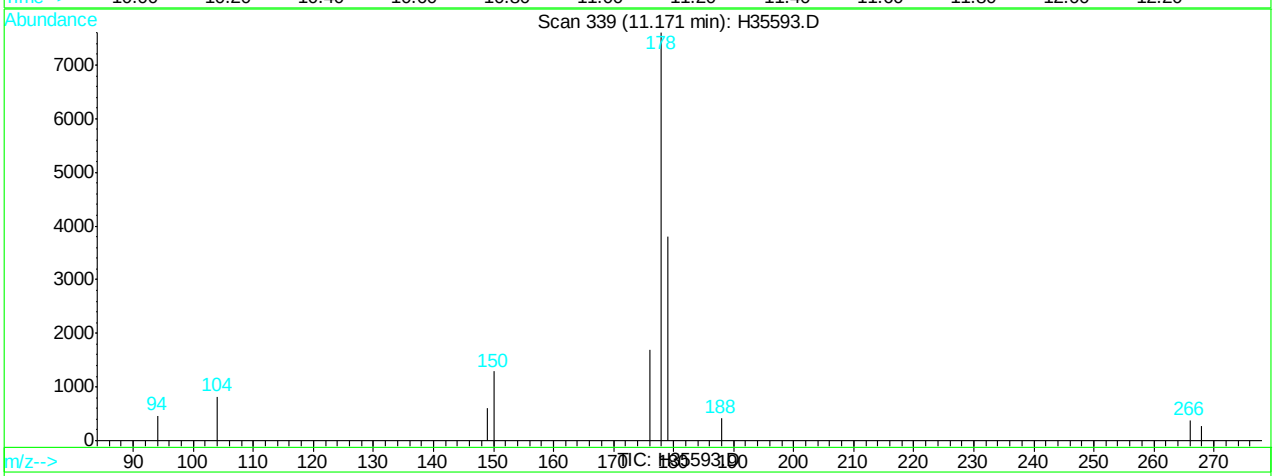
H35593.D H10239SP.M Mon Oct 26 12:26:54 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35593.D Vial: 15
Acq On : 23 Oct 2009 5:31 pm Operator: sheilac
Sample : t39646-10,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 0.43ppb m

response 20027

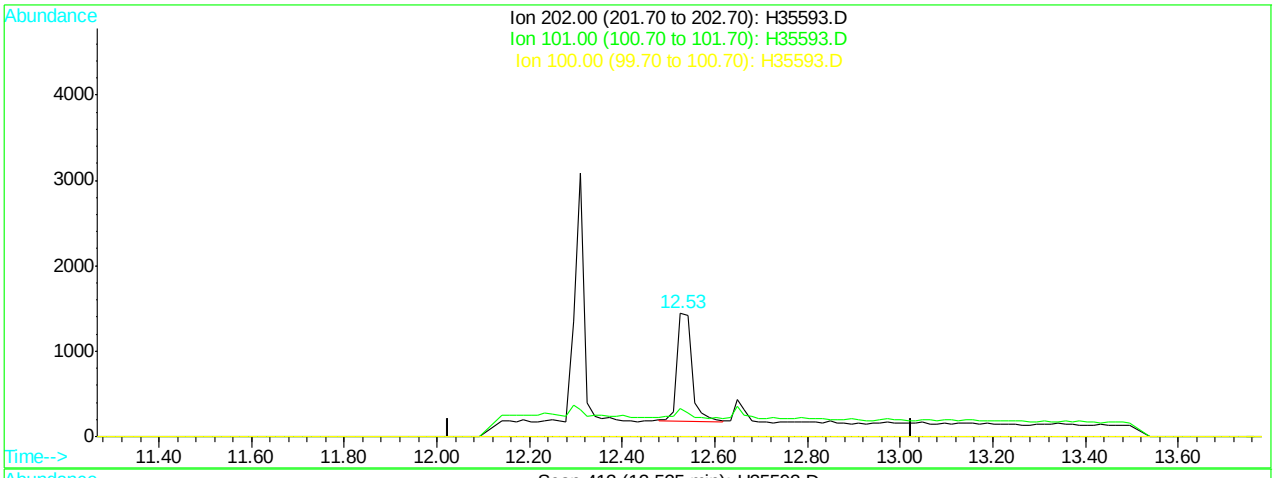
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	49.94#
176.00	19.00	22.30
0.00	0.00	0.00

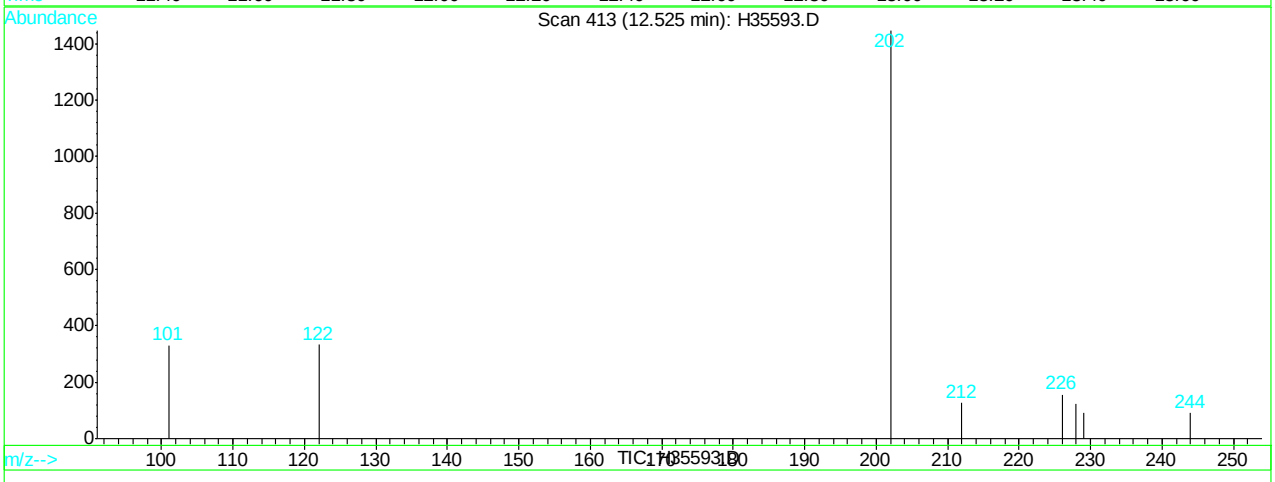
H35593.D H10239SP.M Mon Oct 26 12:26:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35593.D Vial: 15
Acq On : 23 Oct 2009 5:31 pm Operator: sheilac
Sample : t39646-10,4x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,4,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:25 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 12:10:28 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.53min 0.12ppb m

response 2831

Ion	Exp%	Act%
202.00	100	100
101.00	5.00	22.82#
100.00	0.00	0.00
0.00	0.00	0.00

H35593.D H10239SP.M Mon Oct 26 12:27:01 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 16:53:01 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	96814	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	88464	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	67931	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	119443	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	26997	4.00	ppb	-0.02
26) Perylene-d12	16.37	264	6004	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	103928	29.42	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 588.40%#			
10) 2-Fluorobiphenyl	8.87	172	1605232	37.63	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 752.60%#			
16) 2,4,6-Tribromophenol	10.40	330	408421	118.57	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1185.70%#			
23) Terphenyl-d14	12.66	244	458547	46.54	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 930.80%#			

Target Compounds

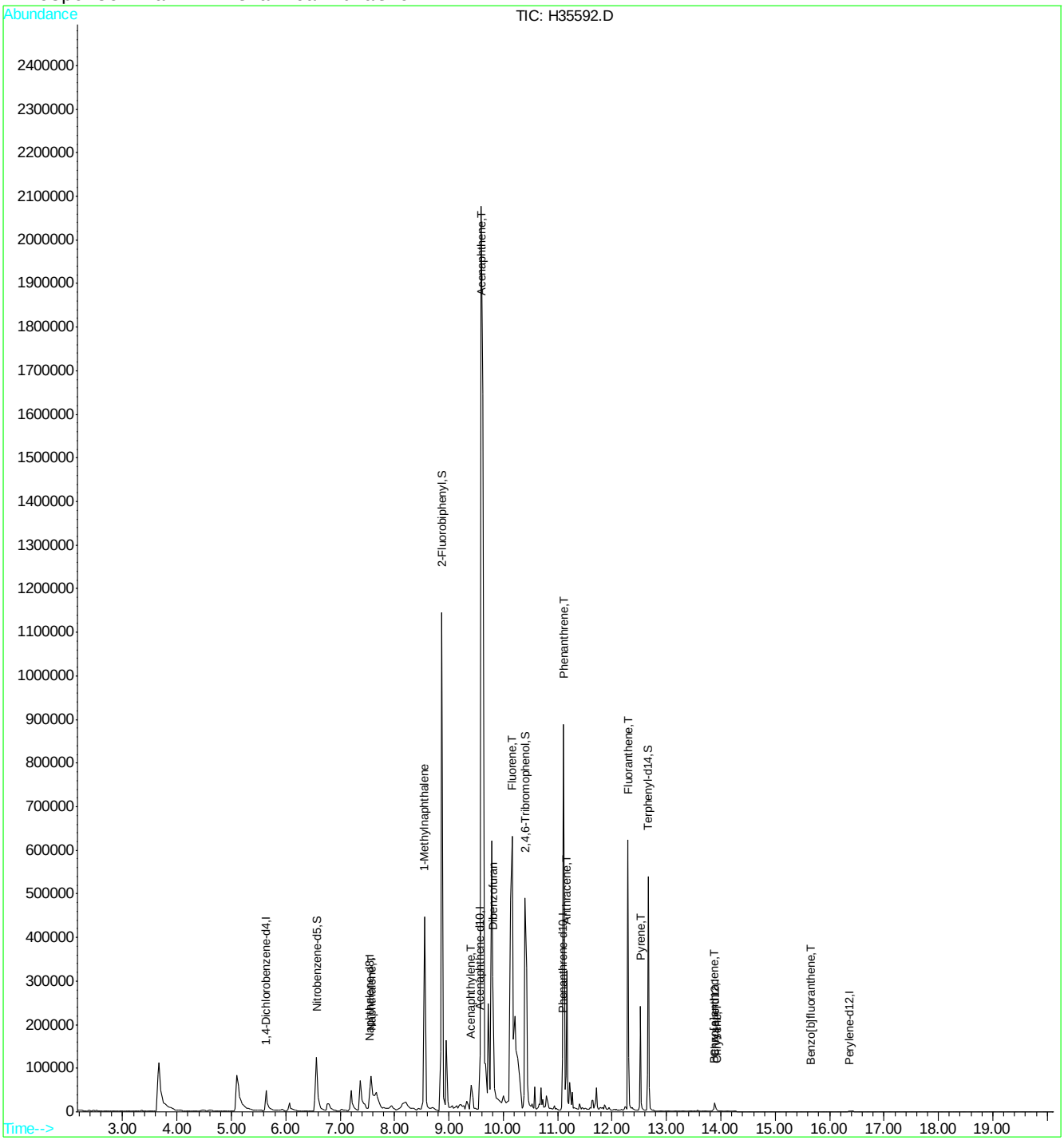
							Qvalue
6) Naphthalene	7.57	128	104504	3.53	ppb		97
8) 1-Methylnaphthalene	8.55	142	485861	14.76	ppb	#	97
11) Acenaphthylene	9.41	152	78819	1.81	ppb		92
12) Acenaphthene	9.60	153	2300067	60.69	ppb	#	72
13) Dibenzofuran	9.81	168	667177	18.95	ppb	#	21
14) Fluorene	10.16	166	815642	45.38	ppb	#	69
18) Phenanthrene	11.11	178	790240	15.15	ppb		95
19) Anthracene	11.17	178	320857	5.30	ppb		95
20) Fluoranthene	12.29	202	685096	18.47	ppb		95
22) Pyrene	12.53	202	397266m	8.96	ppb		
24) Benzo[a]anthracene	13.87	228	5285m	0.85	ppb		
25) Chrysene	13.92	228	3557m	0.29	ppb		
27) Benzo[b]fluoranthene	15.66	252	265m	0.16	ppb		

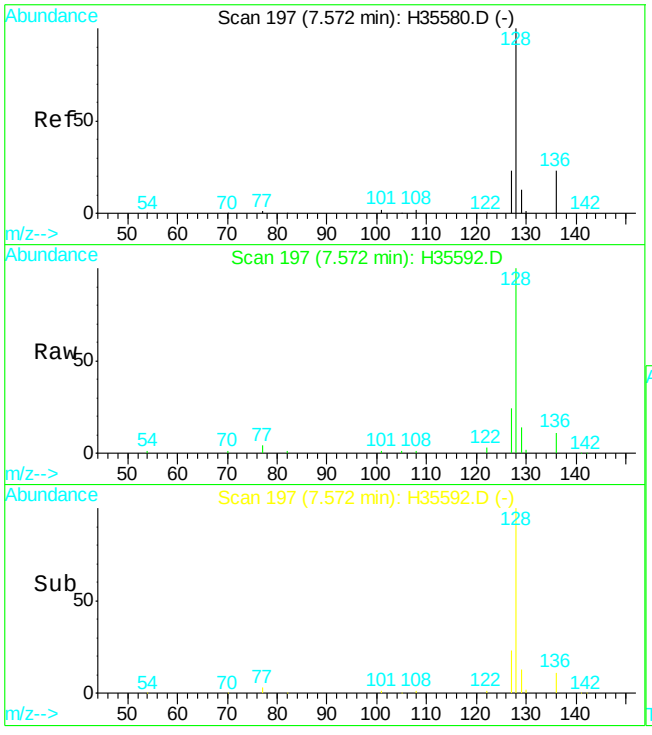
(#) = qualifier out of range (m) = manual integration
H35592.D H10239SP.M Tue Oct 27 15:25:16 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

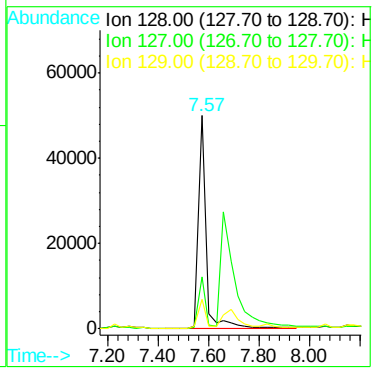


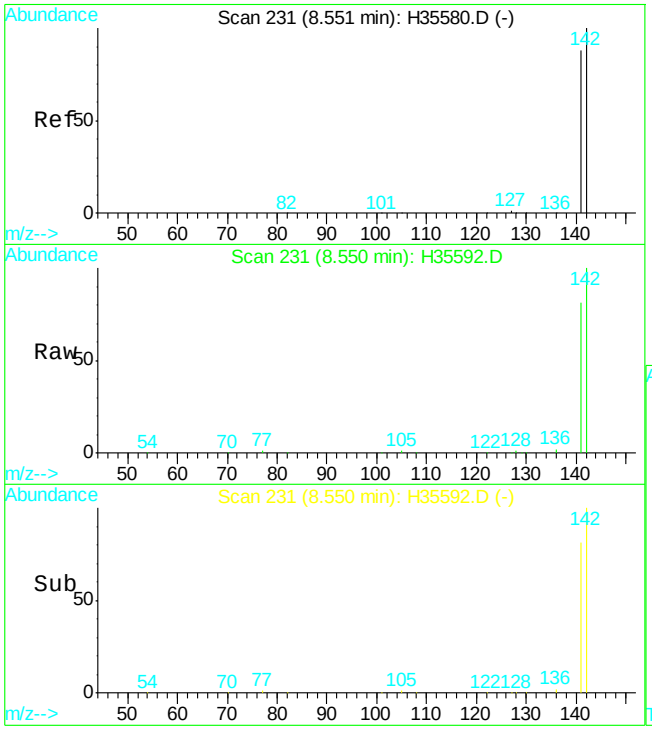


#6
Naphthalene
Concen: 3.53 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:128 Resp: 104504

Ion	Ratio	Lower	Upper
128	100		
127	23.6	15.3	28.5
129	13.3	8.5	15.9

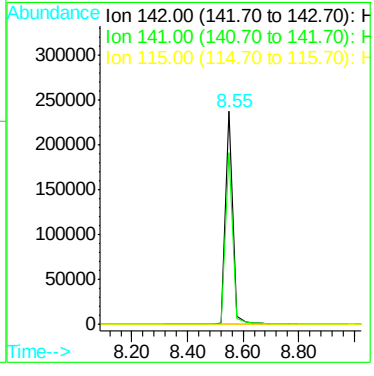


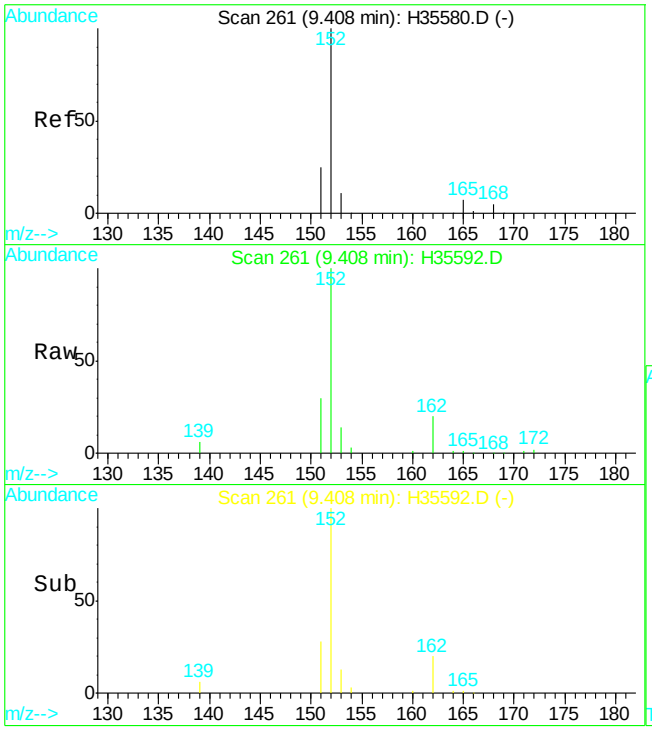


#8
1-Methylnaphthalene
Concen: 14.76 ppb
RT: 8.55 min Scan# 231
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:142 Resp: 485861

Ion	Ratio	Lower	Upper
142	100		
141	84.1	60.5	112.5
115	0.0	0.0	0.0

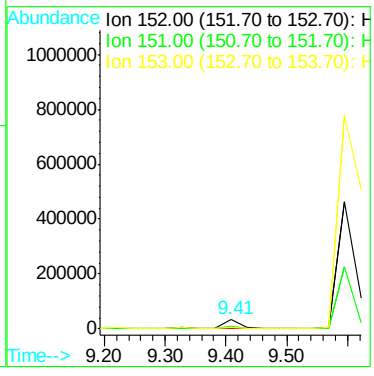


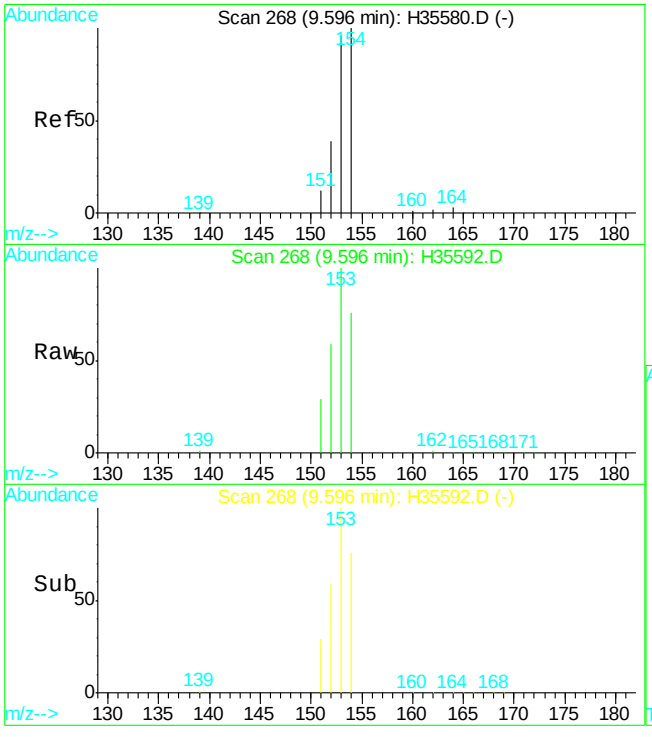


#11
Acenaphthylene
Concen: 1.81 ppb
RT: 9.41 min Scan# 261
Delta R.T. 0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:152 Resp: 78819

Ion	Ratio	Lower	Upper
152	100		
151	29.3	17.8	33.0
153	13.2	7.4	13.8

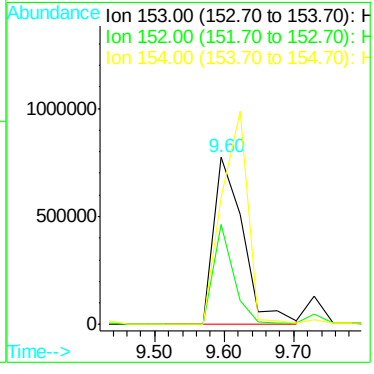




#12
Acenaphthene
Concen: 60.69 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

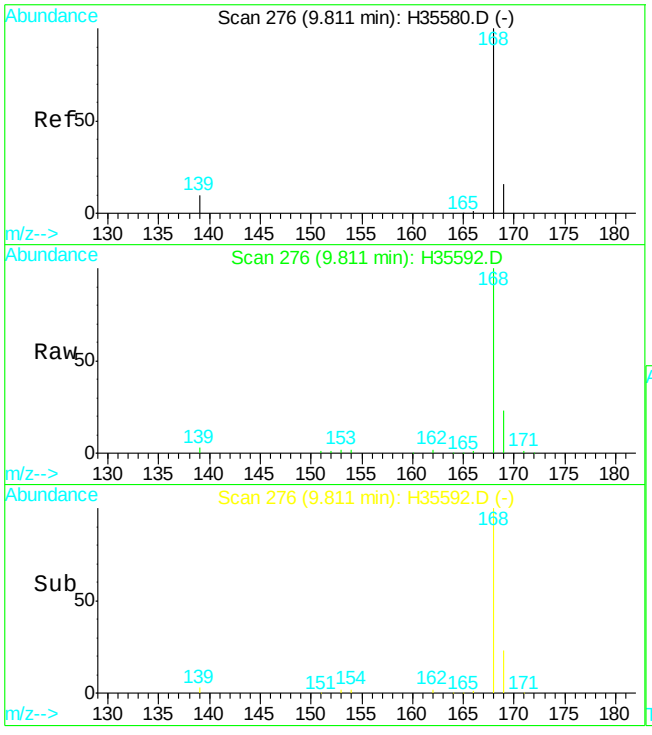
Tgt Ion:153 Resp: 2300067

Ion	Ratio	Lower	Upper
153	100		
152	59.7	28.7	53.3#
154	75.8	72.9	135.5



8.1.47

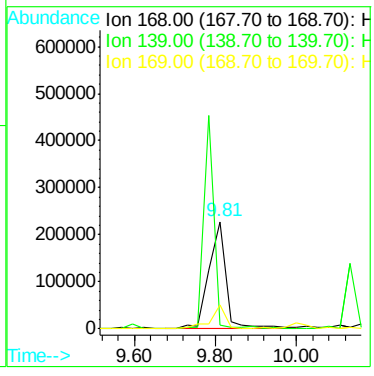
8

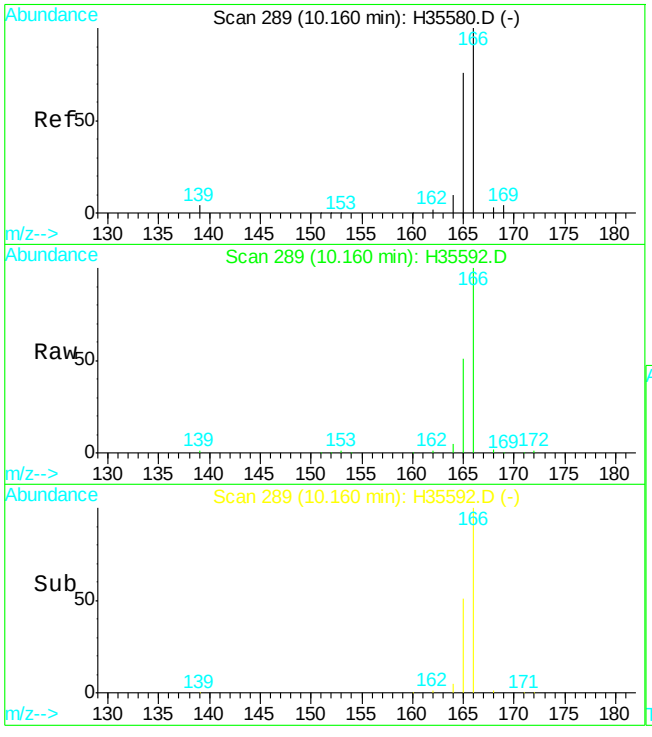


#13
Dibenzofuran
Concen: 18.95 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:168 Resp: 667177

Ion	Ratio	Lower	Upper
168	100		
139	113.7	33.7	62.5#
169	20.0	9.8	18.2#

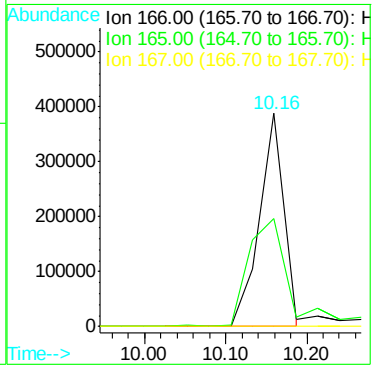


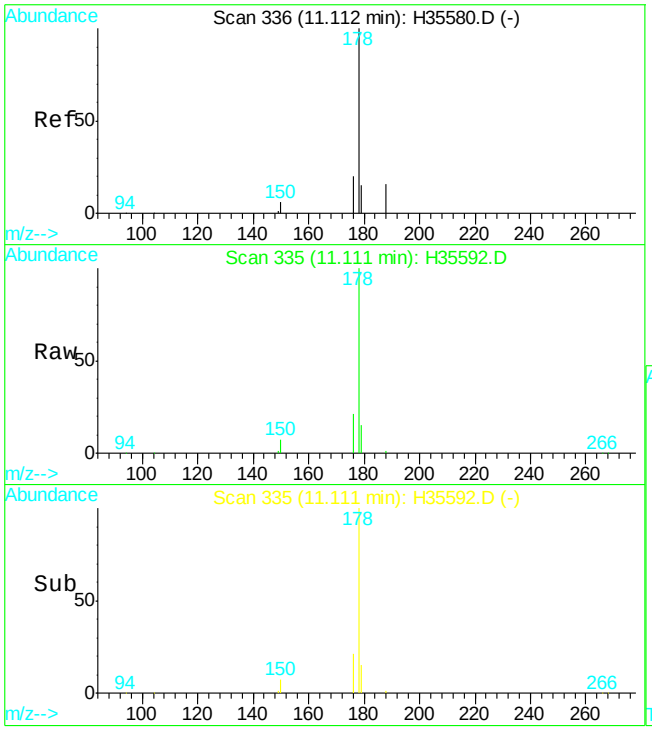


#14
Fluorene
Concen: 45.38 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:166 Resp: 815642

Ion	Ratio	Lower	Upper
166	100		
165	49.4	53.1	98.7#
167	0.0	0.0	0.0

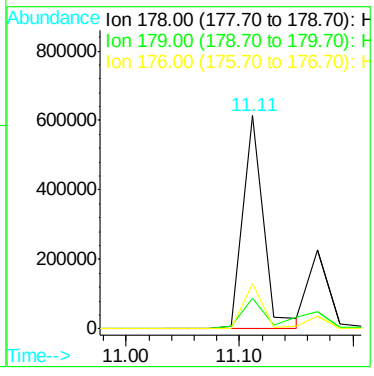


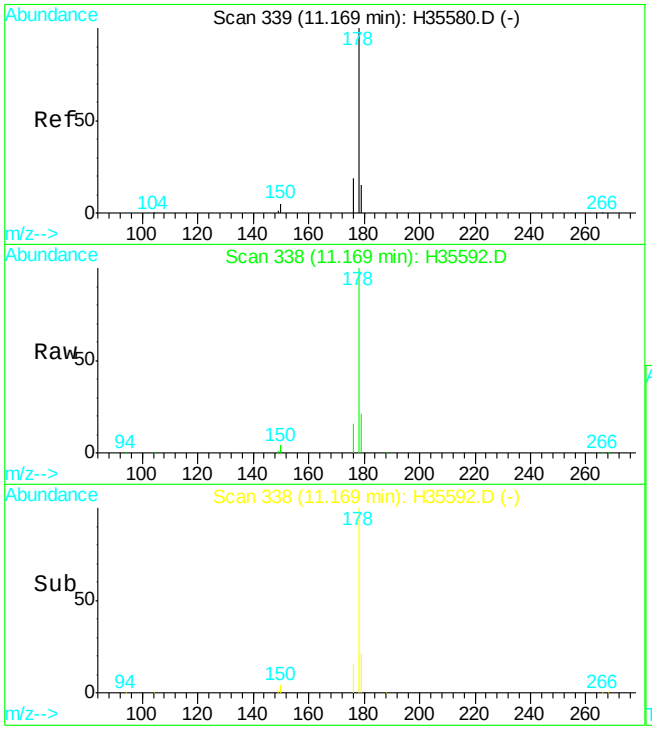


#18
Phenanthrene
Concen: 15.15 ppb
RT: 11.11 min Scan# 335
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:178 Resp: 790240

Ion	Ratio	Lower	Upper
178	100		
179	12.1	10.6	19.6
176	20.9	13.7	25.5

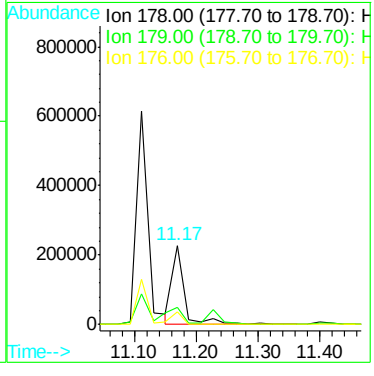


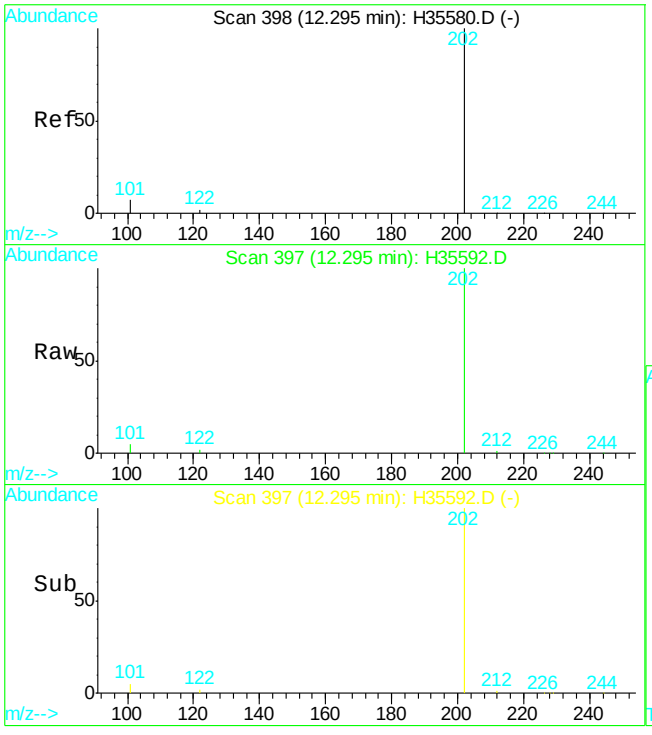


#19
Anthracene
Concen: 5.30 ppb
RT: 11.17 min Scan# 338
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:178 Resp: 320857

Ion	Ratio	Lower	Upper
178	100		
179	14.7	10.6	19.6
176	15.0	13.3	24.7

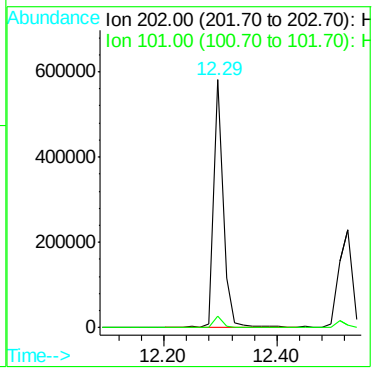


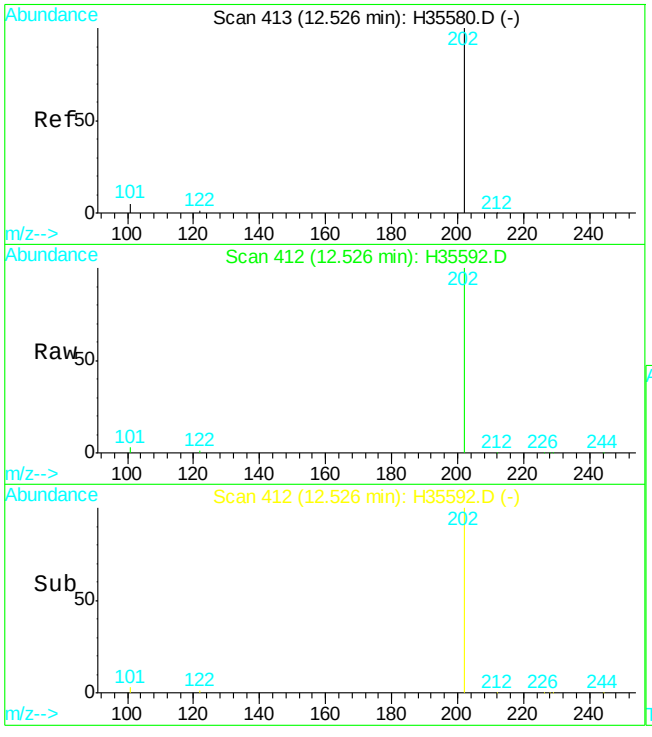


#20
Fluoranthene
Concen: 18.47 ppb
RT: 12.29 min Scan# 397
Delta R.T. 0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:202 Resp: 685096

Ion	Ratio	Lower	Upper
202	100		
101	4.9	4.6	8.6

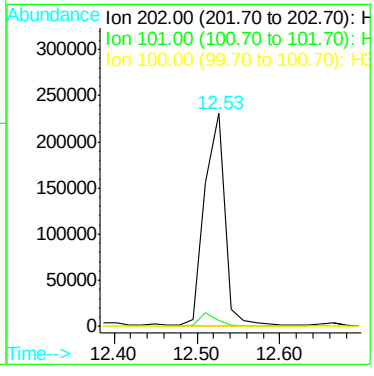


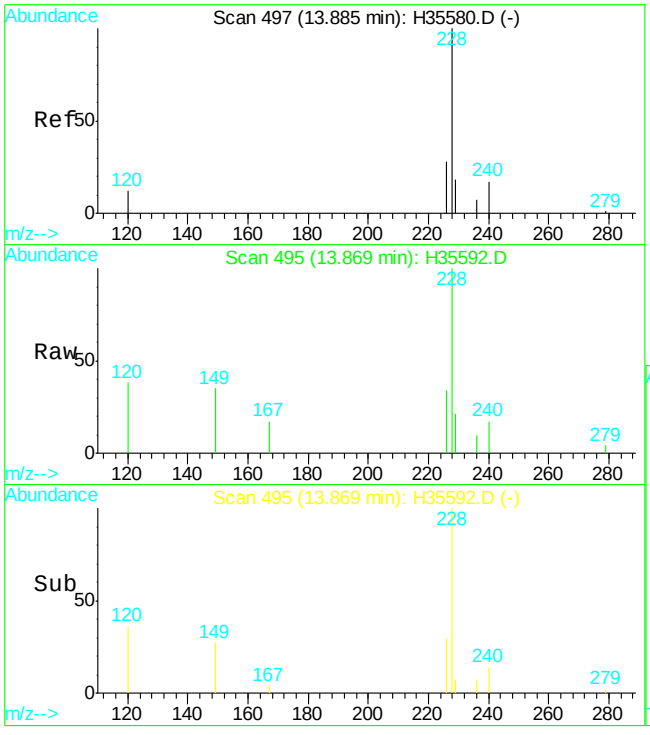


#22
Pyrene
Concen: 8.96 ppb m
RT: 12.53 min Scan# 412
Delta R.T. -0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:202 Resp: 397266

Ion	Ratio	Lower	Upper
202	100		
101	2.8	3.5	6.5#
100	0.0	0.0	0.0

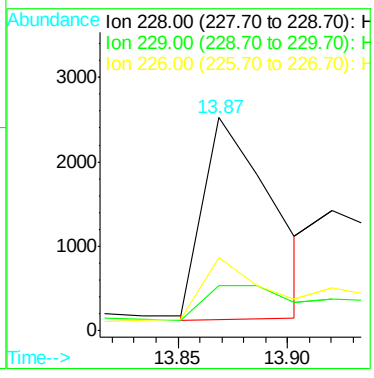


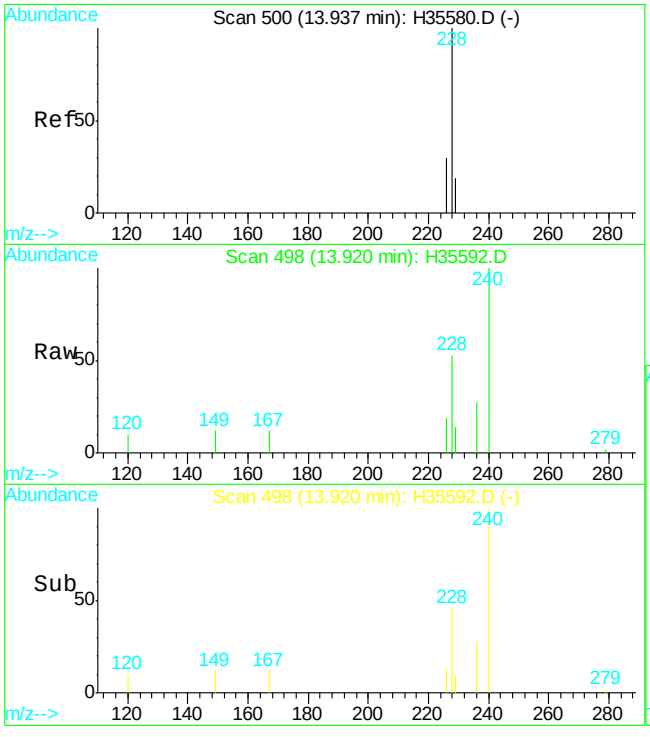


#24
Benzo[a]anthracene
Concen: 0.85 ppb m
RT: 13.87 min Scan# 495
Delta R.T. -0.02 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:228 Resp: 5285

Ion	Ratio	Lower	Upper
228	100		
229	21.0	14.4	26.7
226	34.1	21.3	39.6

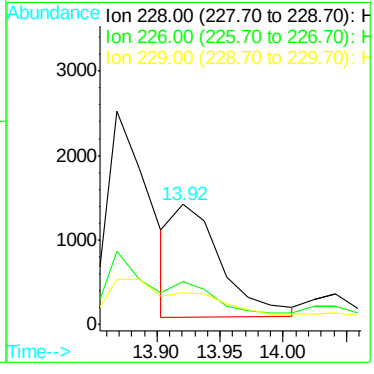


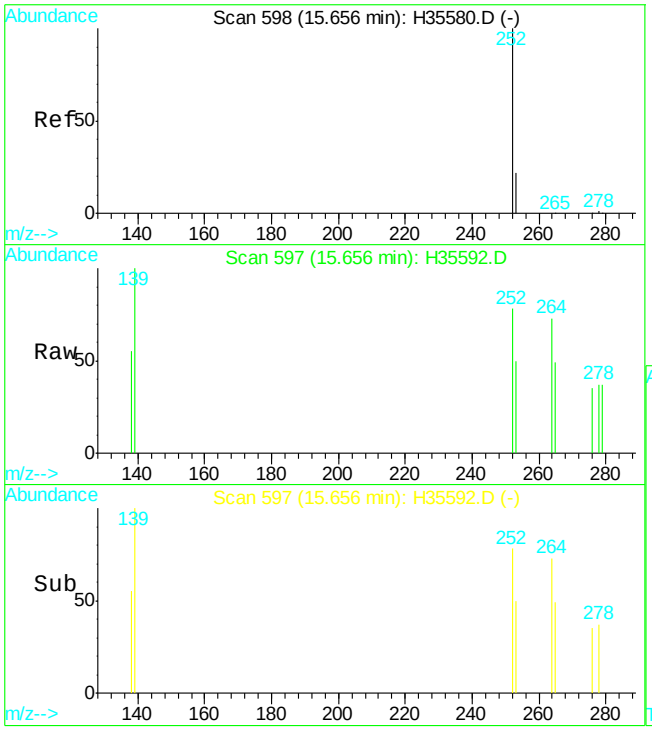


#25
Chrysene
Concen: 0.29 ppb m
RT: 13.92 min Scan# 498
Delta R.T. -0.02 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:228 Resp: 3557

Ion	Ratio	Lower	Upper
228	100		
226	35.6	21.8	40.4
229	26.1	14.8	27.6

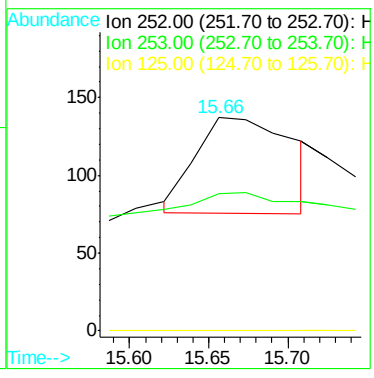




#27
Benzo[b]fluoranthene
Concen: 0.16 ppb m
RT: 15.66 min Scan# 597
Delta R.T. 0.00 min
Lab File: H35592.D
Acq: 23 Oct 2009 5:03 pm

Tgt Ion:252 Resp: 265

Ion	Ratio	Lower	Upper
252	100		
253	64.2	19.5	36.1#
125	0.0	0.0	0.0



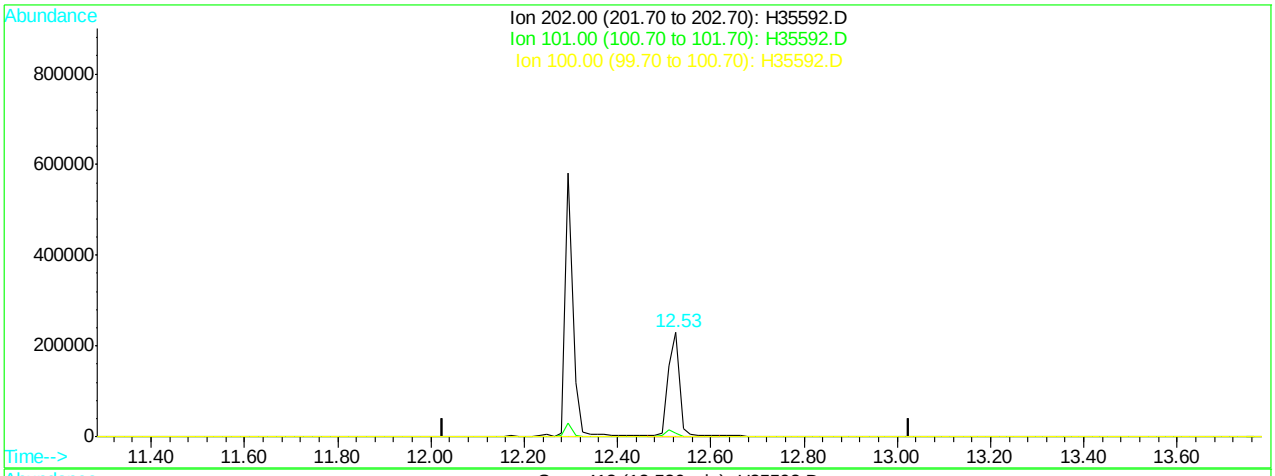
8.1.47

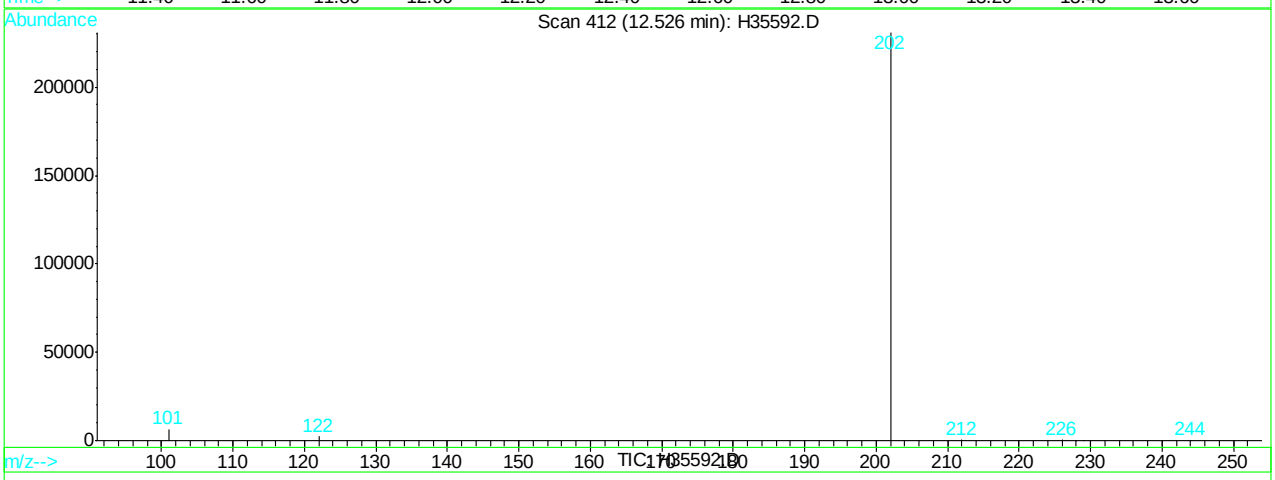
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.53min 8.96ppb m

response 397266

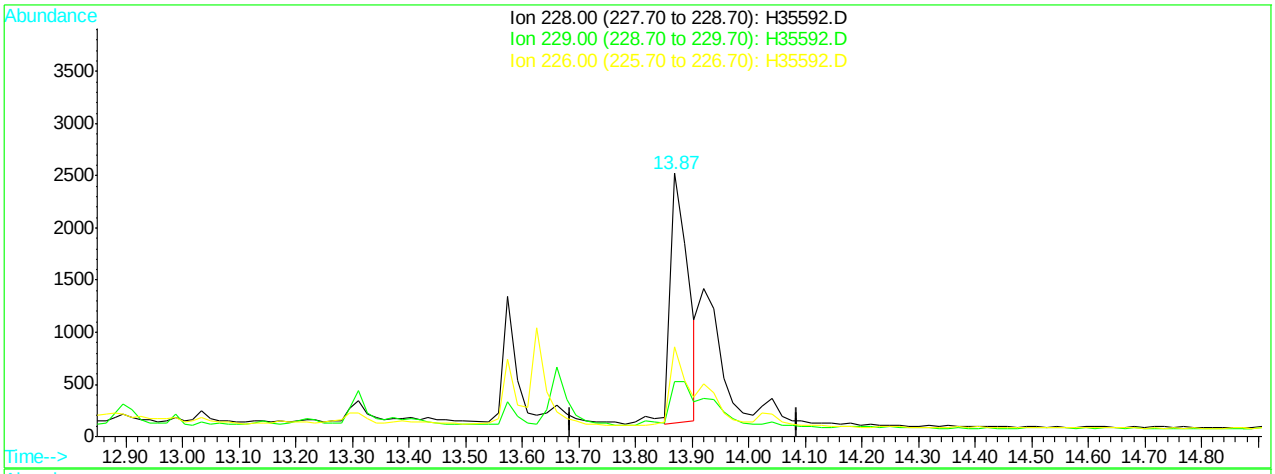
Ion	Exp%	Act%
202.00	100	100
101.00	5.00	2.85#
100.00	0.00	0.00
0.00	0.00	0.00

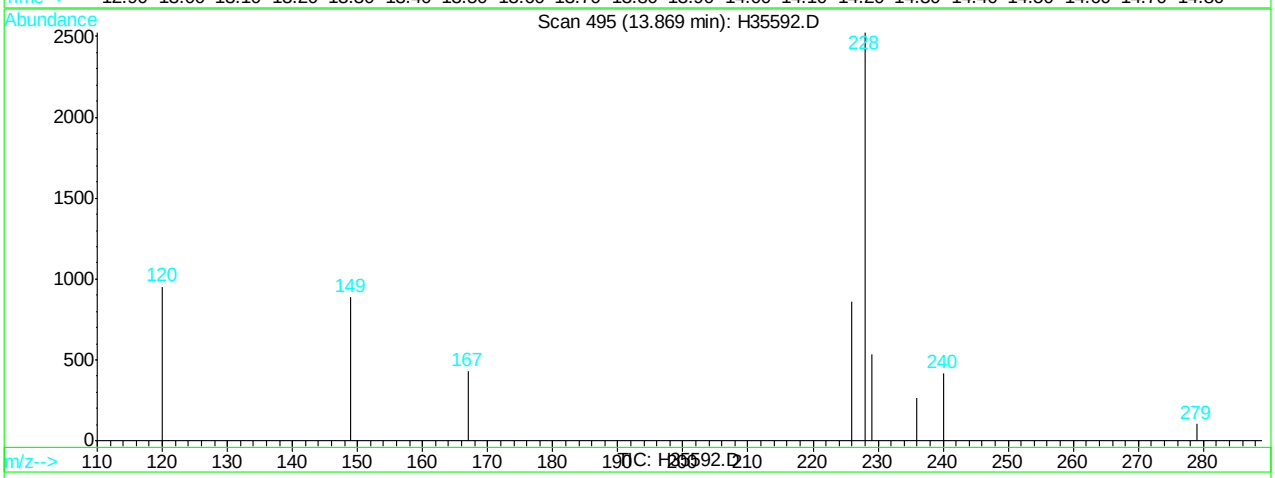
H35592.D H10239SP.M Tue Oct 27 15:25:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 0.85ppb m

response 5285

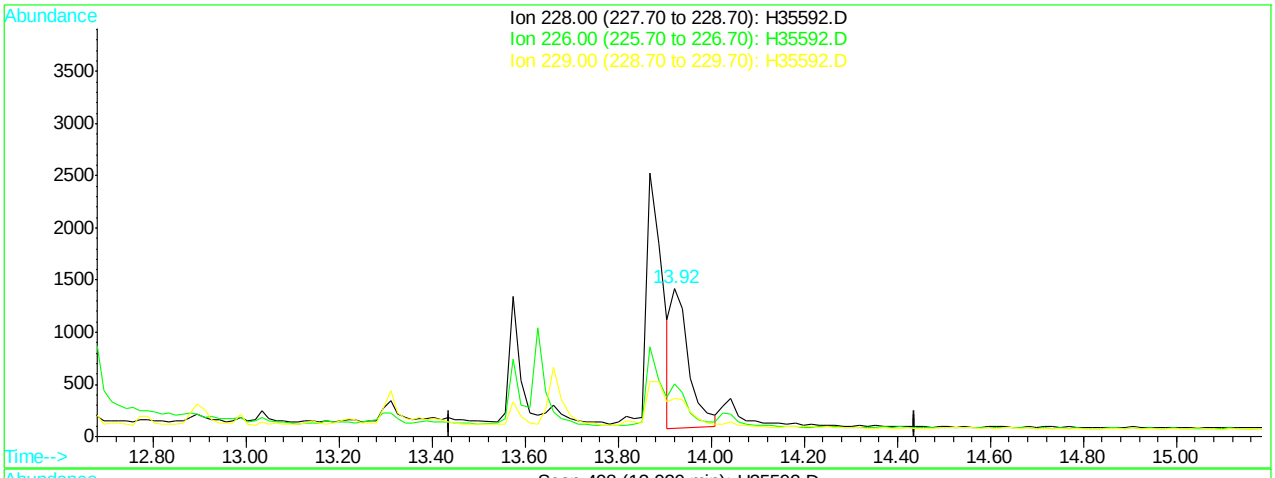
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	21.04
226.00	30.50	34.11
0.00	0.00	0.00

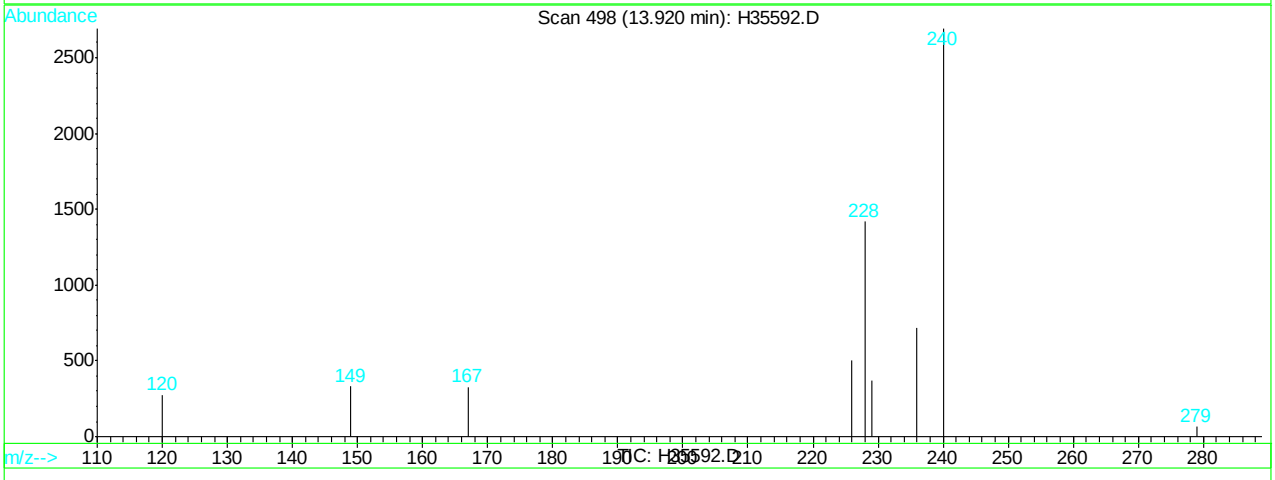
H35592.D H10239SP.M Tue Oct 27 15:25:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.29ppb m

response 3557

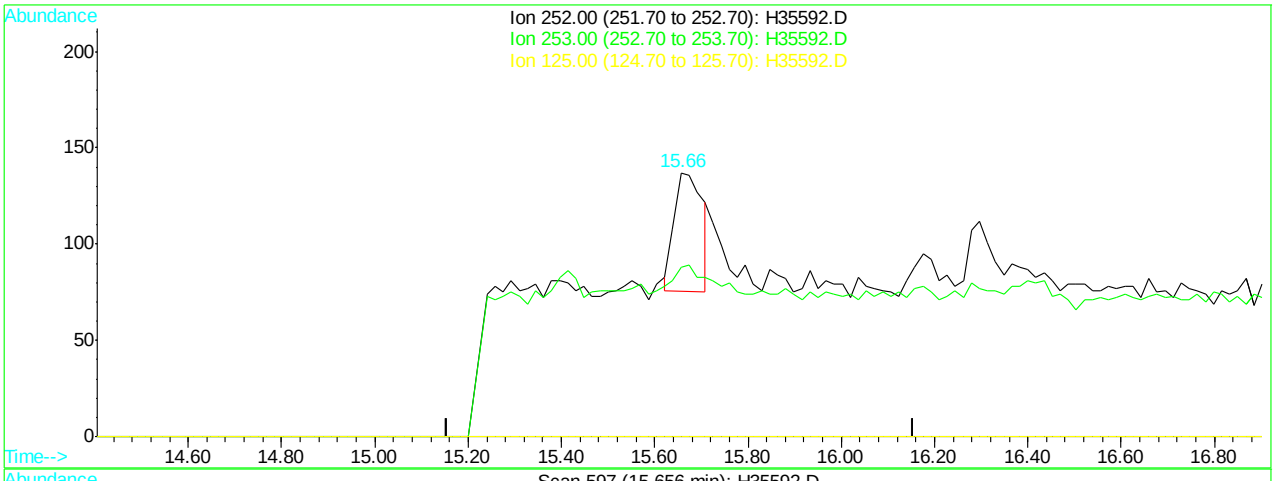
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	35.59
229.00	21.20	26.07
0.00	0.00	0.00

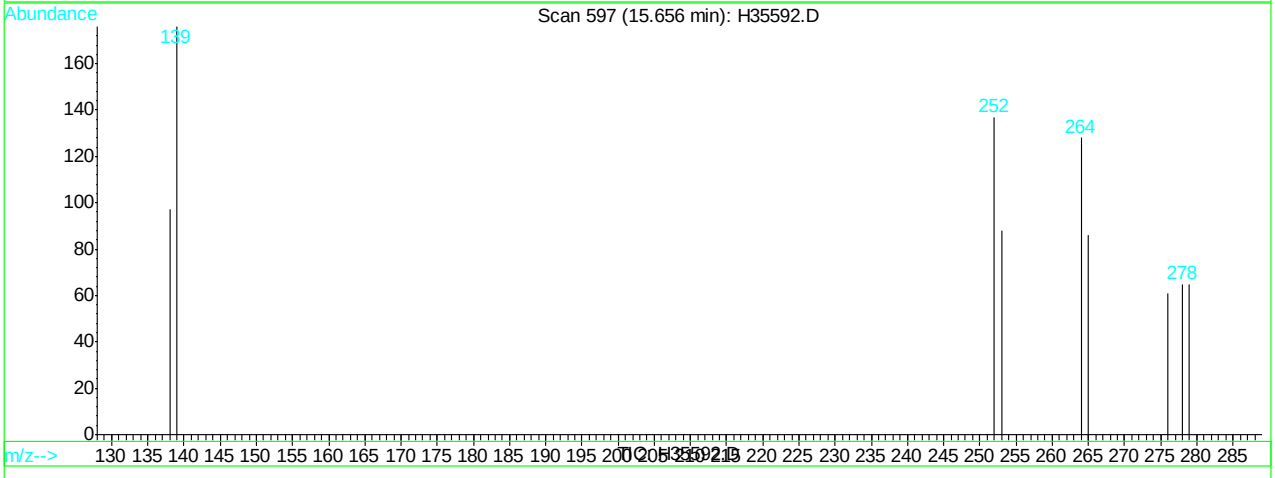
H35592.D H10239SP.M Tue Oct 27 15:25:50 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35592.D Vial: 14
Acq On : 23 Oct 2009 5:03 pm Operator: sheilac
Sample : t39646-11 Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 12:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.16ppb m

response 265

Ion	Exp%	Act%
252.00	100	100
253.00	27.80	64.23#
125.00	0.00	0.00
0.00	0.00	0.00

H35592.D H10239SP.M Tue Oct 27 15:25:54 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35600.D Vial: 22
Acq On : 23 Oct 2009 8:45 pm Operator: sheilac
Sample : t39646-11,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:55 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 13:47:18 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	70341	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	53261	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	57262	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	62898	4.00	ppb	0.00
21) Chrysene-d12	13.94	240	6337	4.00	ppb	0.03
26) Perylene-d12	16.42	264	3170	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.62	82	5387	2.31	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	46.20%	
10) 2-Fluorobiphenyl	8.87	172	102866	3.25	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	65.00%	
16) 2,4,6-Tribromophenol	10.42	330	23438	12.92	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	129.20%#	
23) Terphenyl-d14	12.68	244	10866	6.62	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	132.40%	

Target Compounds

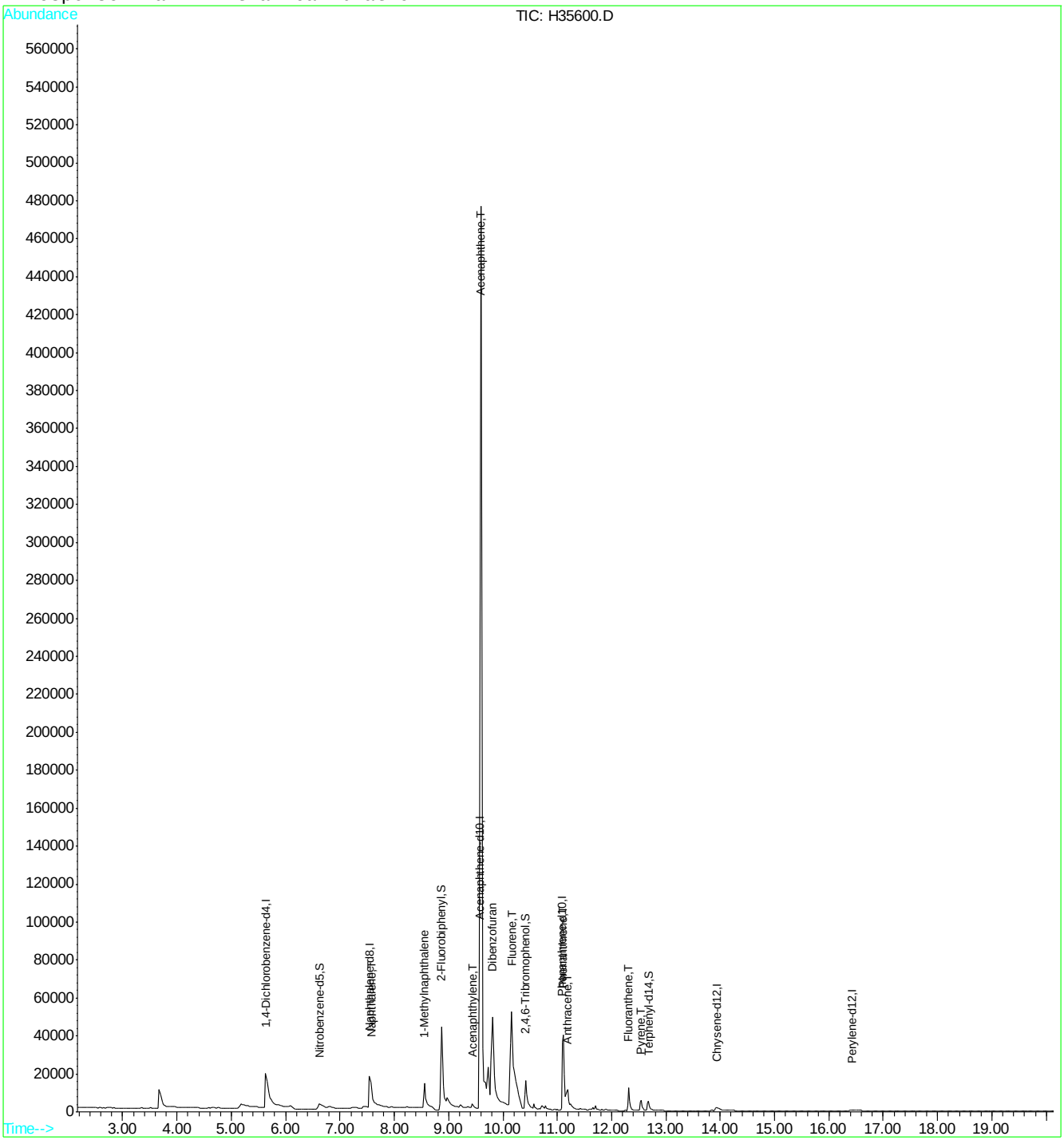
							Qvalue
6) Naphthalene	7.57	128	7455	0.42	ppb		98
8) 1-Methylnaphthalene	8.55	142	23436	1.18	ppb	#	91
11) Acenaphthylene	9.43	152	4012	0.18	ppb	#	82
12) Acenaphthene	9.60	153	323257	10.12	ppb		95
13) Dibenzofuran	9.81	168	105322	3.55	ppb		94
14) Fluorene	10.16	166	73406	4.85	ppb		97
18) Phenanthrene	11.11	178	39642m	1.44	ppb		
19) Anthracene	11.19	178	23059m	0.72	ppb		
20) Fluoranthene	12.31	202	22209	1.67	ppb	#	92
22) Pyrene	12.54	202	14597	1.40	ppb		98

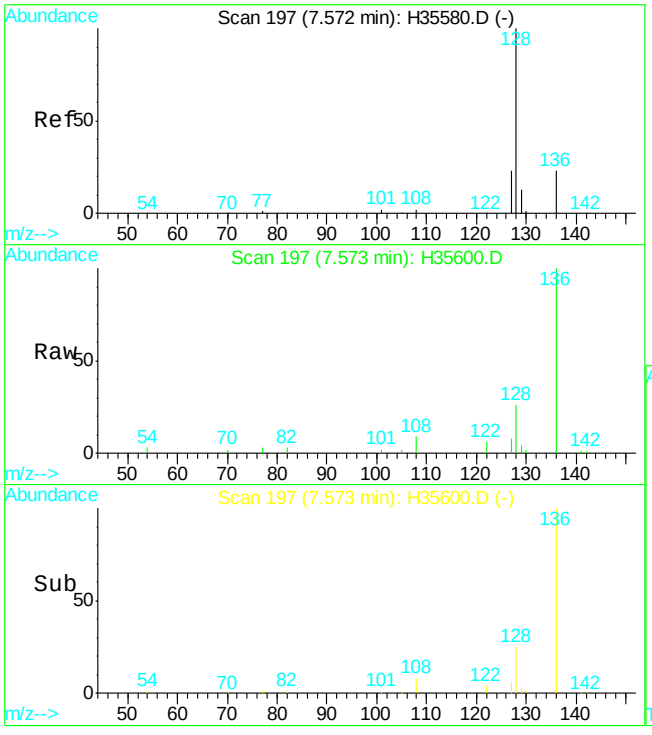
(#) = qualifier out of range (m) = manual integration
H35600.D H10239SP.M Tue Oct 27 15:27:36 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35600.D Vial: 22
Acq On : 23 Oct 2009 8:45 pm Operator: sheilac
Sample : t39646-11,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:55 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

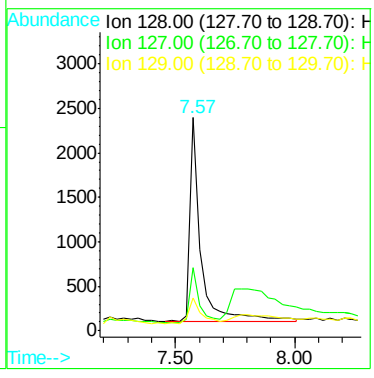


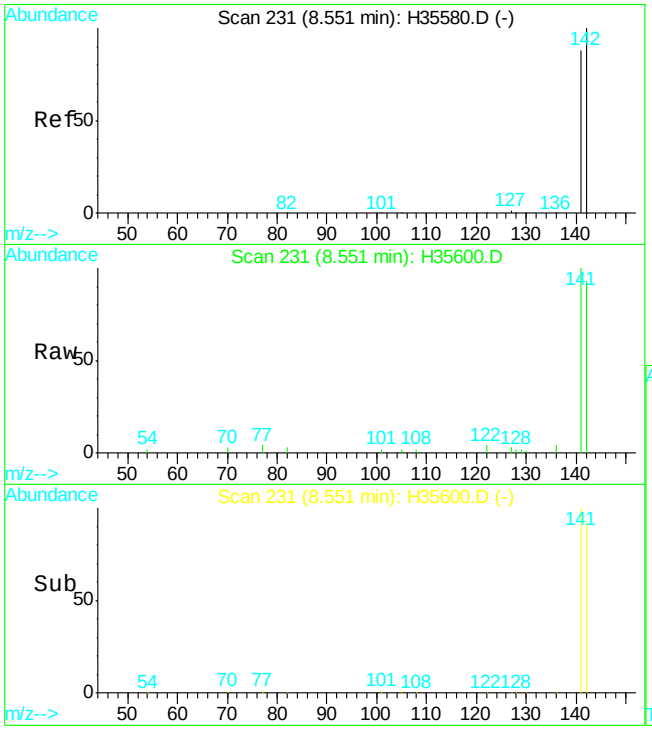


#6
Naphthalene
Concen: 0.42 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.06 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:128 Resp: 7455

Ion	Ratio	Lower	Upper
128	100		
127	23.0	15.3	28.5
129	11.5	8.5	15.9

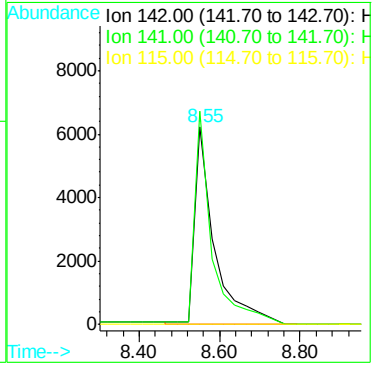


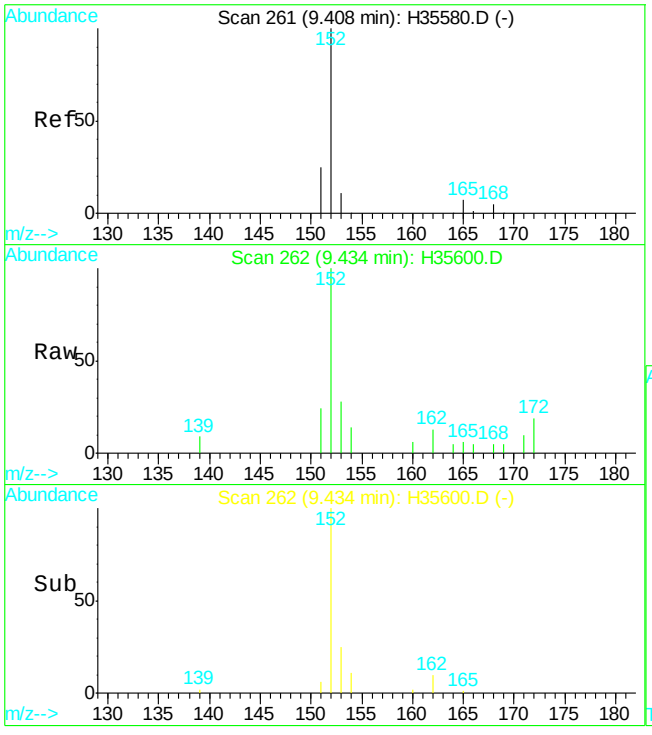


#8
1-Methylnaphthalene
Concen: 1.18 ppb
RT: 8.55 min Scan# 231
Delta R.T. -0.07 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:142 Resp: 23436

Ion	Ratio	Lower	Upper
142	100		
141	95.0	60.5	112.5
115	0.0	0.0	0.0

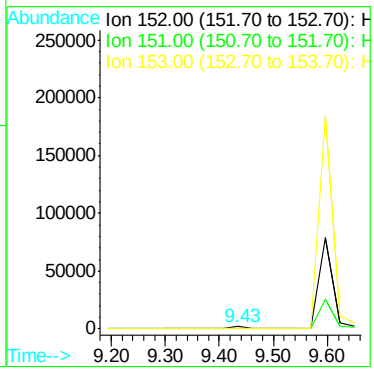


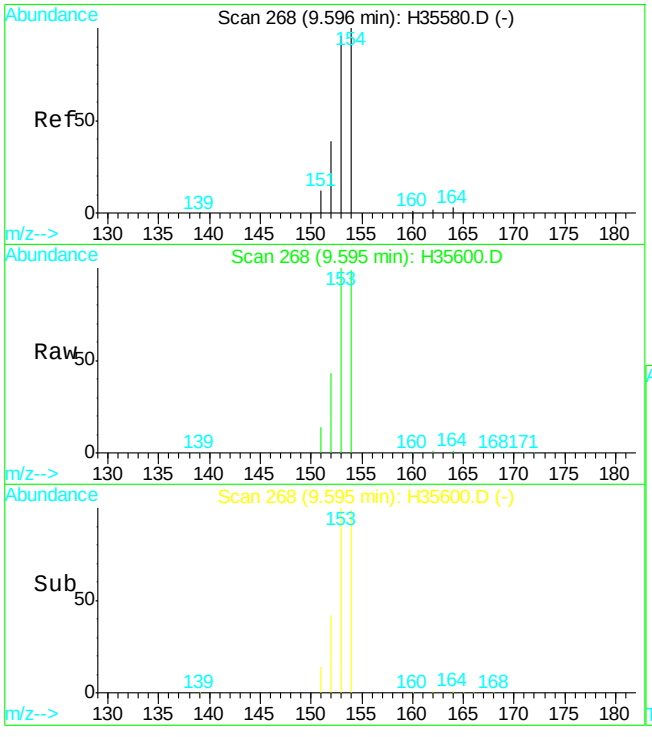


#11
Acenaphthylene
Concen: 0.18 ppb
RT: 9.43 min Scan# 262
Delta R.T. 0.03 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:152 Resp: 4012

Ion	Ratio	Lower	Upper
152	100		
151	19.1	17.8	33.0
153	21.8	7.4	13.8#

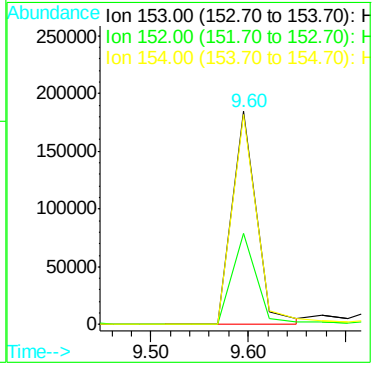


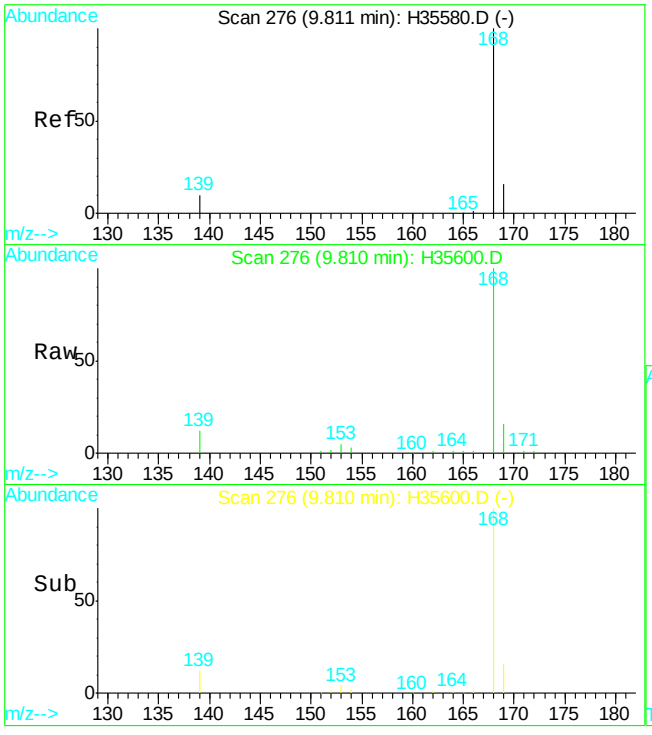


#12
Acenaphthene
Concen: 10.12 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:153 Resp: 323257

Ion	Ratio	Lower	Upper
153	100		
152	42.4	28.7	53.3
154	98.6	72.9	135.5

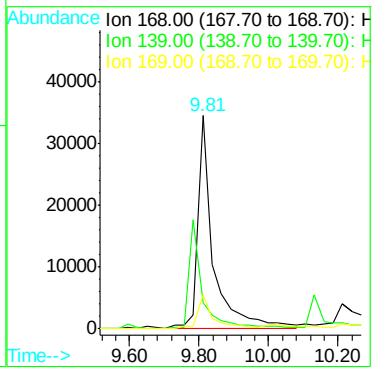


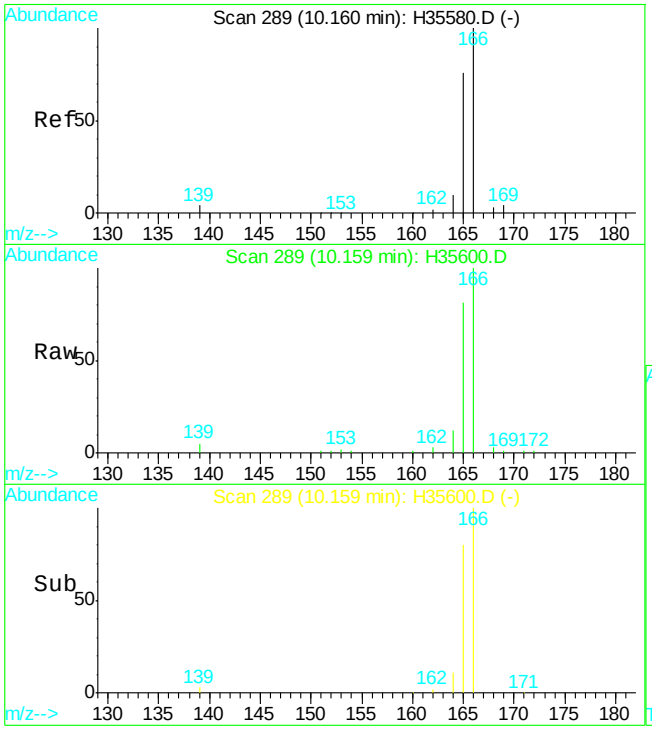


#13
Dibenzofuran
Concen: 3.55 ppb
RT: 9.81 min Scan# 276
Delta R.T. 0.00 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:168 Resp: 105322

Ion	Ratio	Lower	Upper
168	100		
139	43.9	33.7	62.5
169	15.7	9.8	18.2

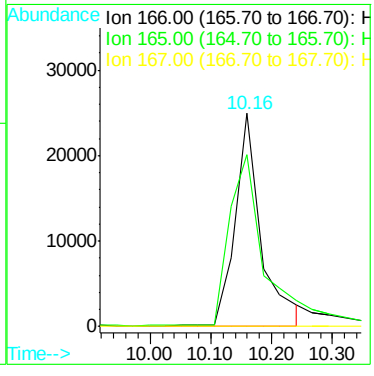


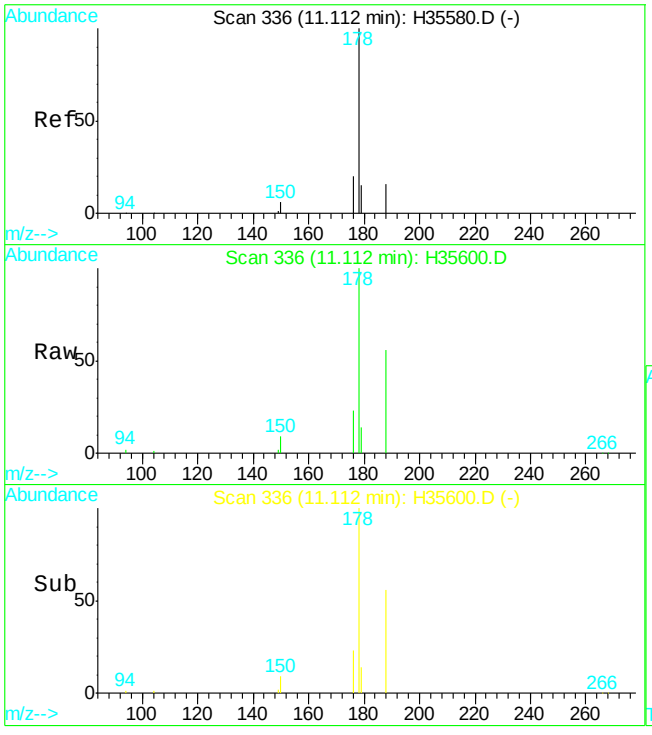


#14
Fluorene
Concen: 4.85 ppb
RT: 10.16 min Scan# 289
Delta R.T. -0.00 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:166 Resp: 73406

Ion	Ratio	Lower	Upper
166	100		
165	78.2	53.1	98.7
167	0.0	0.0	0.0

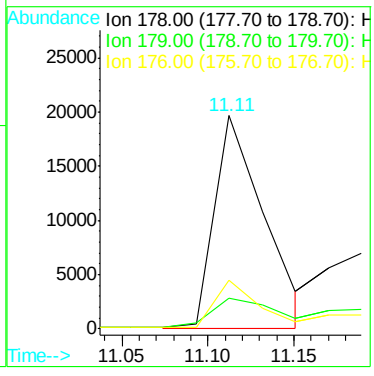


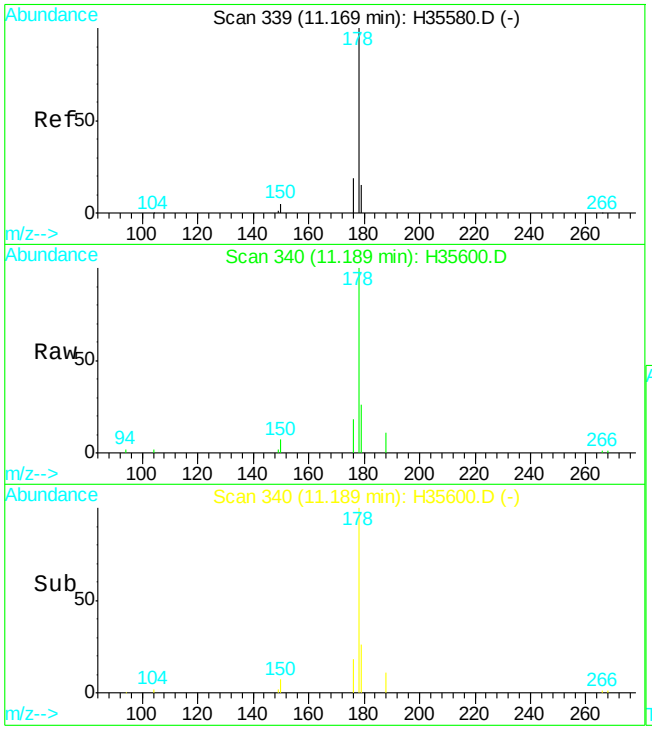


#18
Phenanthrene
Concen: 1.44 ppb m
RT: 11.11 min Scan# 336
Delta R.T. 0.00 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:178 Resp: 39642

Ion	Ratio	Lower	Upper
178	100		
179	14.4	10.6	19.6
176	22.6	13.7	25.5

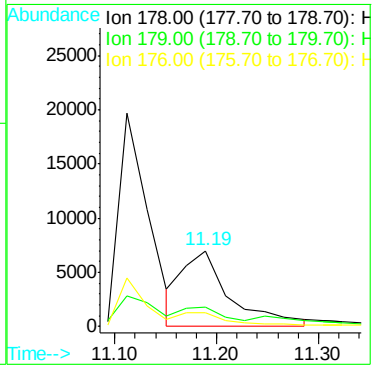


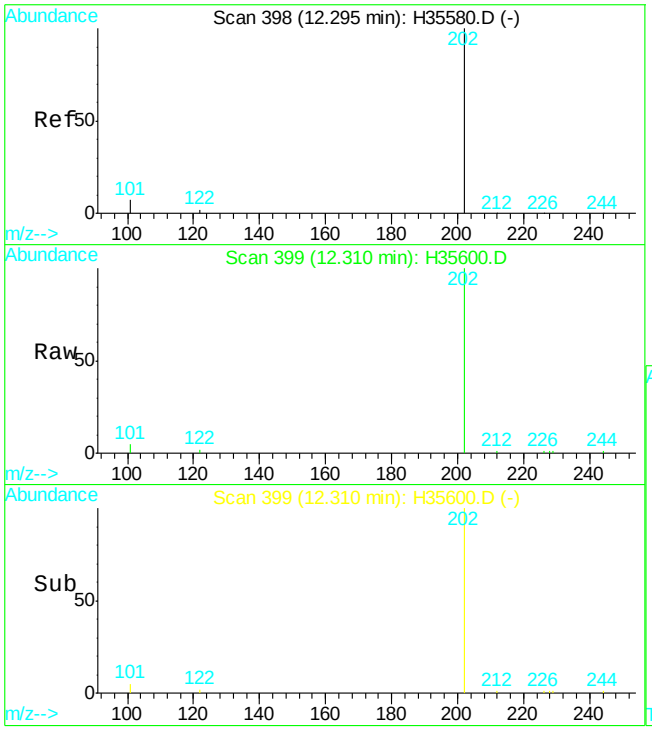


#19
Anthracene
Concen: 0.72 ppb m
RT: 11.19 min Scan# 340
Delta R.T. 0.02 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:178 Resp: 23059

Ion	Ratio	Lower	Upper
178	100		
179	26.2	10.6	19.6#
176	18.2	13.3	24.7

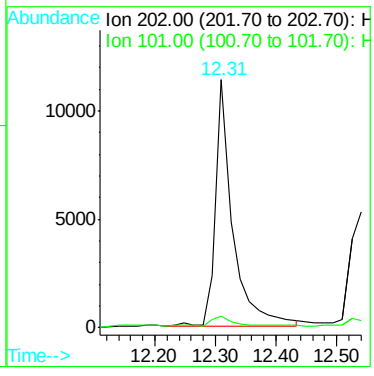


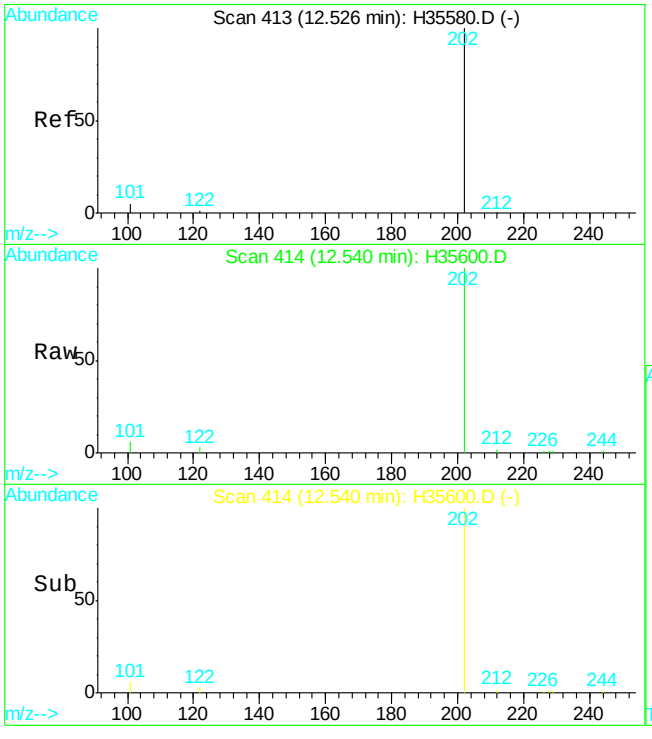


#20
Fluoranthene
Concen: 1.67 ppb
RT: 12.31 min Scan# 399
Delta R.T. 0.02 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:202 Resp: 22209

Ion	Ratio	Lower	Upper
202	100		
101	3.8	4.6	8.6#

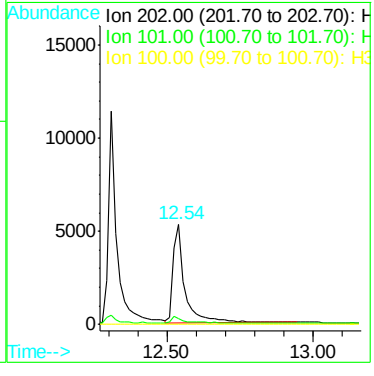




#22
Pyrene
Concen: 1.40 ppb
RT: 12.54 min Scan# 414
Delta R.T. 0.01 min
Lab File: H35600.D
Acq: 23 Oct 2009 8:45 pm

Tgt Ion:202 Resp: 14597

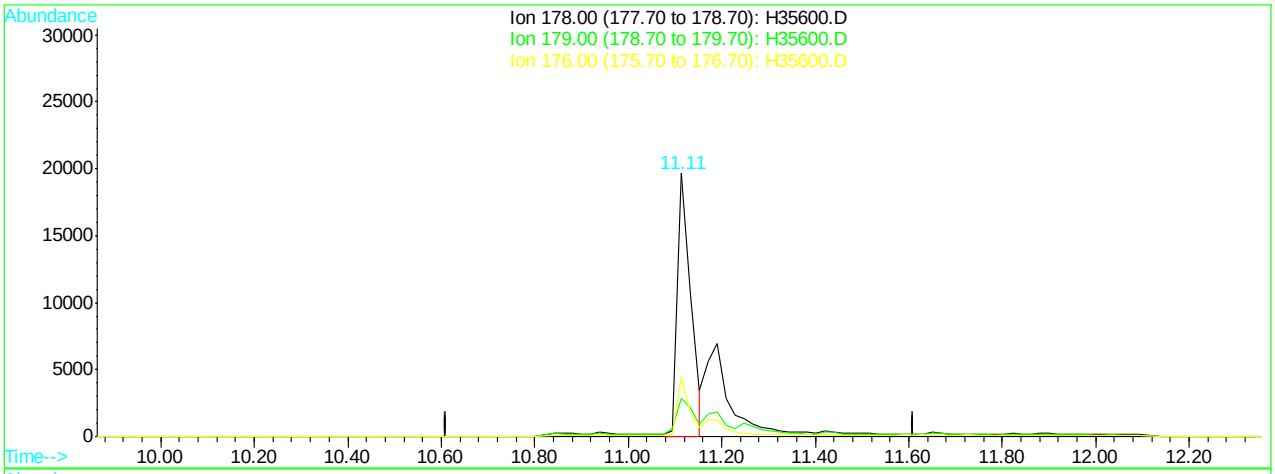
Ion	Ratio	Lower	Upper
202	100		
101	4.4	3.5	6.5
100	0.0	0.0	0.0

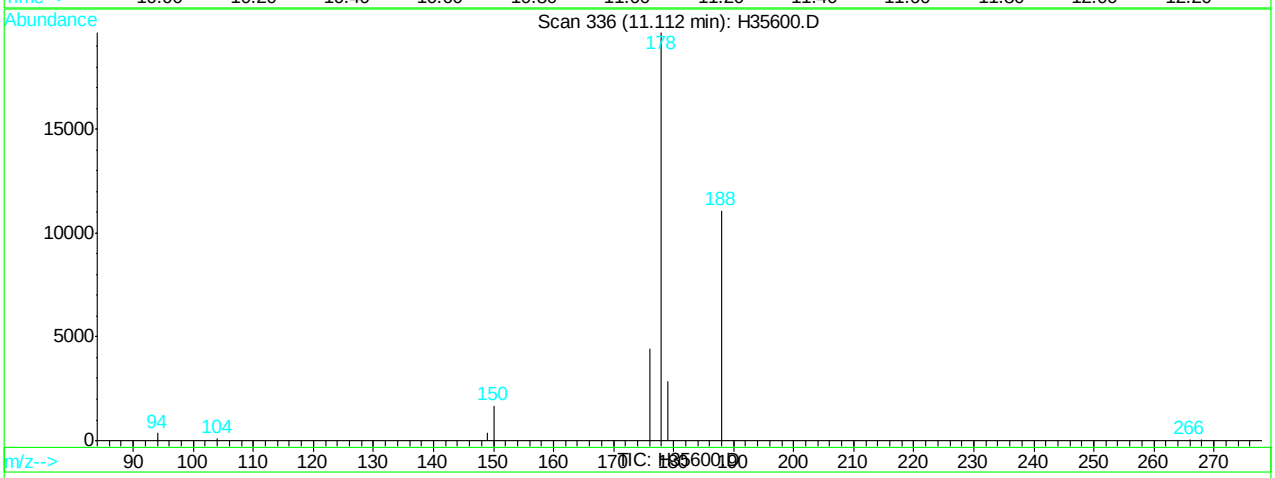


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35600.D Vial: 22
Acq On : 23 Oct 2009 8:45 pm Operator: sheilac
Sample : t39646-11,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 1.44ppb m

response 39642

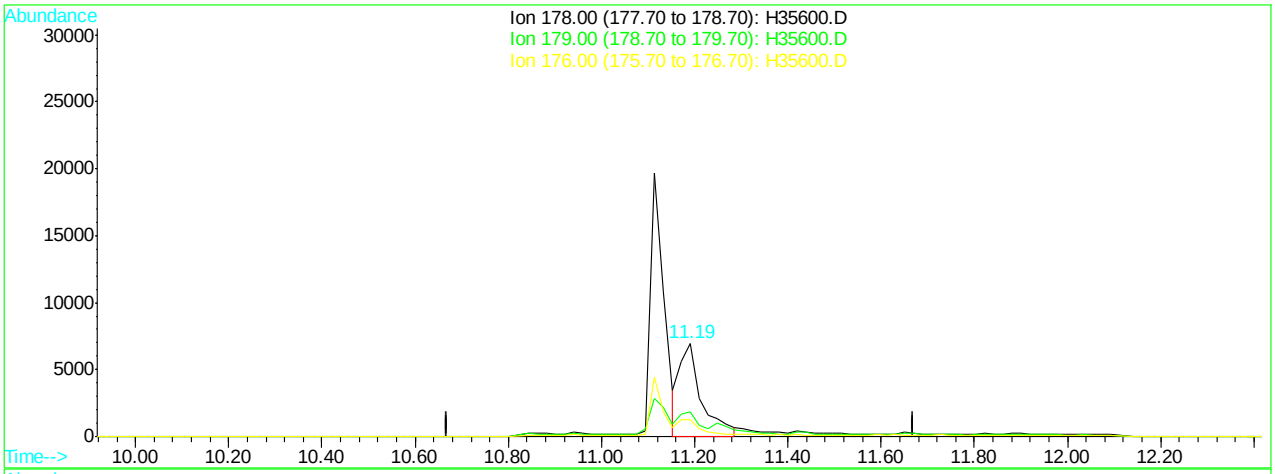
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	14.44
176.00	19.60	22.60
0.00	0.00	0.00

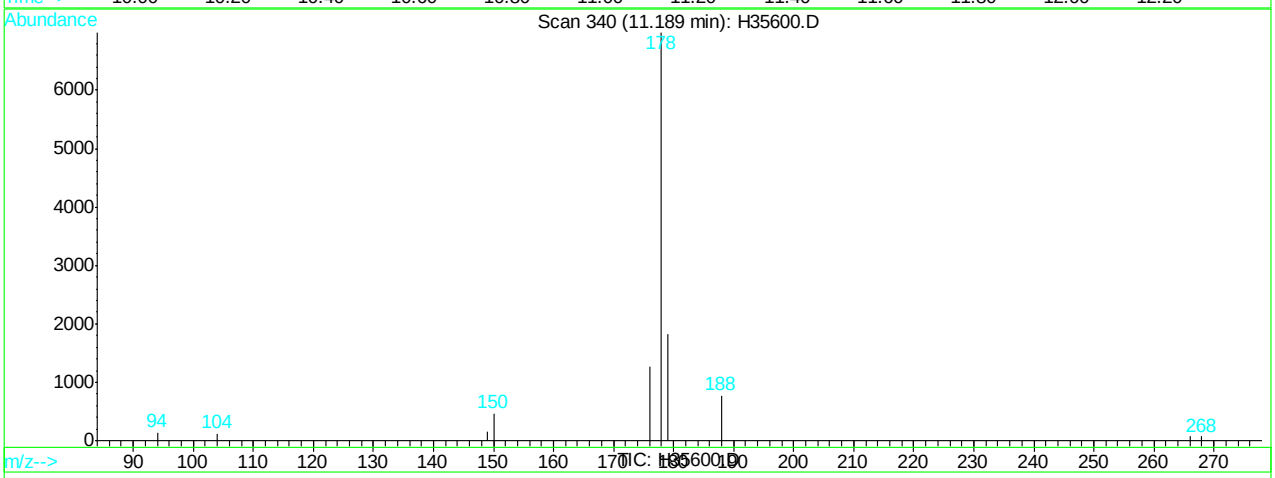
H35600.D H10239SP.M Tue Oct 27 15:28:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35600.D Vial: 22
Acq On : 23 Oct 2009 8:45 pm Operator: sheilac
Sample : t39646-11,10x Inst : TXMSH
Misc : OP13271,EH1920,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 19:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.19min 0.72ppb m

response 23059

Ion	Exp%	Act%
178.00	100	100
179.00	15.10	26.20#
176.00	19.00	18.18
0.00	0.00	0.00

H35600.D H10239SP.M Tue Oct 27 15:28:09 2009

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 17:03:08 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

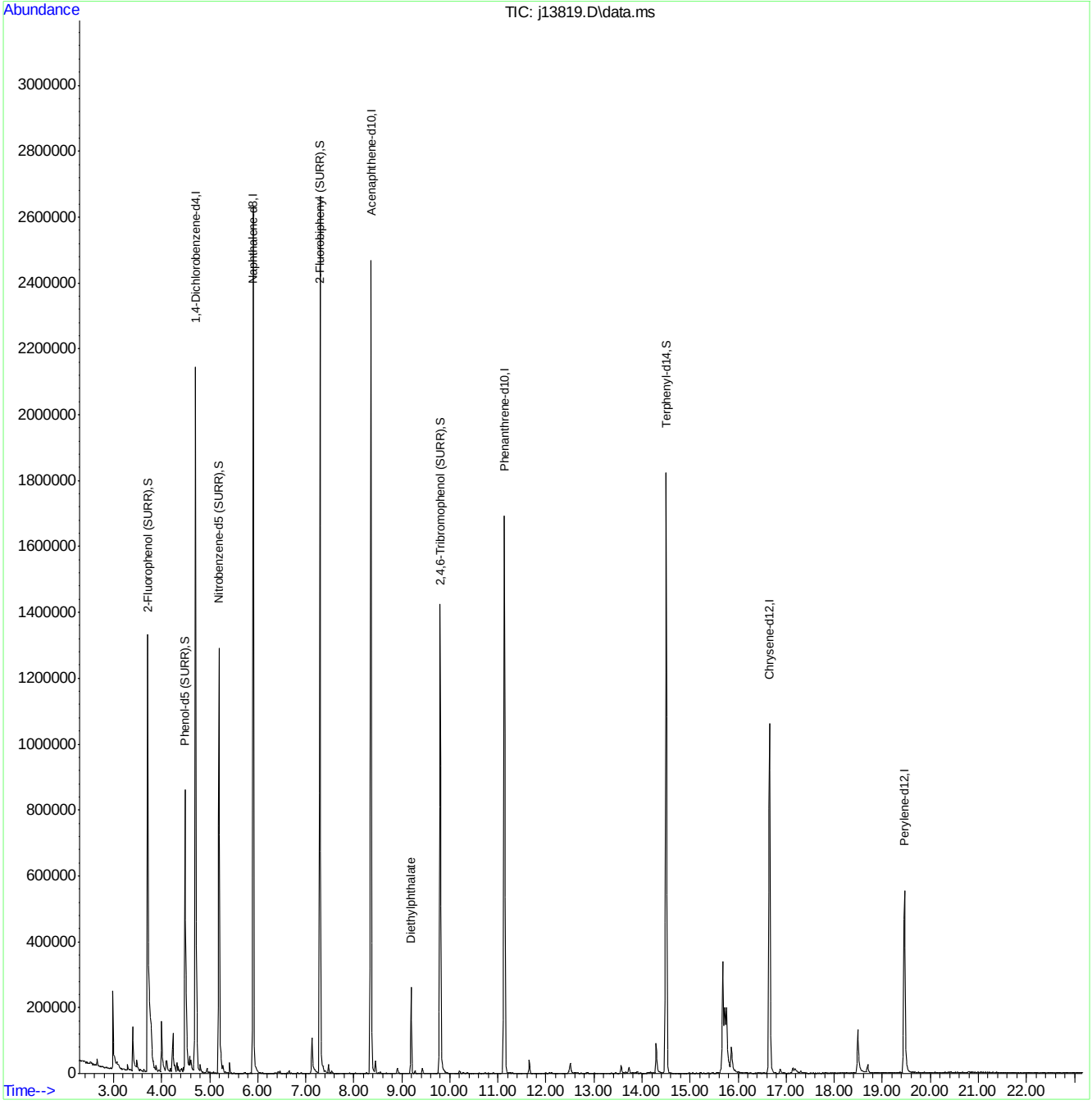
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.705	152	384848	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.903	136	1384386	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.358	164	780437	40.00	ug/ml	-0.06
57) Phenanthrene-d10	11.134	188	1058902	40.00	ug/ml	-0.07
71) Chrysene-d12	16.653	240	768256	40.00	ug/ml	-0.08
80) Perylene-d12	19.461	264	485975	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	578795	47.92	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 47.92%			
5) Phenol-d5 (SURR)	4.485	99	483678	32.04	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 32.04%			
21) Nitrobenzene-d5 (SURR)	5.191	82	541922	37.33	ug/ml	-0.11
Spiked Amount 50.000	Range 29 - 115		Recovery = 74.66%			
40) 2-Fluorobiphenyl (SURR)	7.299	172	1027286	33.79	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 67.58%			
62) 2,4,6-Tribromophenol (...	9.802	330	257291	72.22	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 72.22%			
74) Terphenyl-d14	14.503	244	916423	49.96	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 99.92%			
Target Compounds						Qvalue
53) Diethylphthalate	9.192	149	119950	4.41	ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

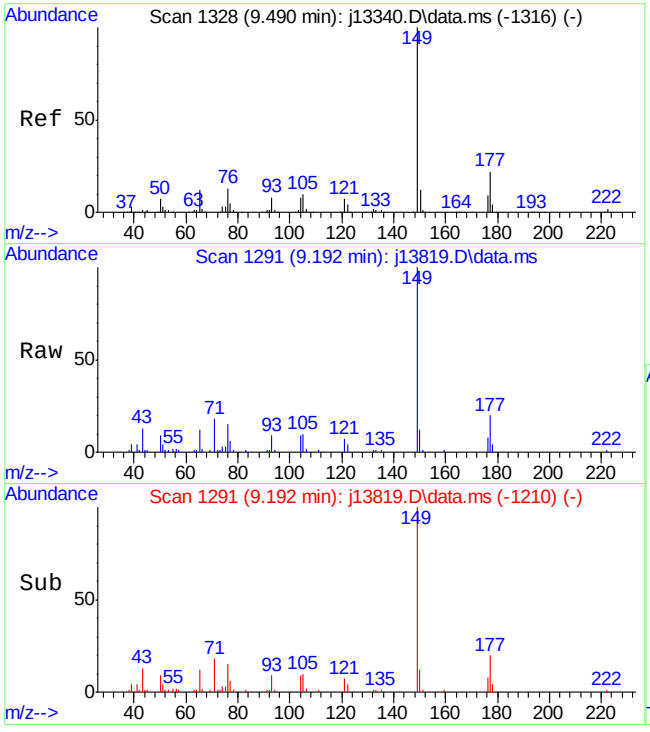
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 17:03:08 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



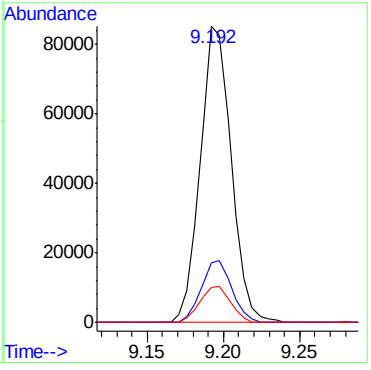
ACCUTEST Laboratories T39646



#53
Diethylphthalate
Concen: 4.41 ug/ml
RT: 9.192 min Scan# 1291
Delta R.T. -0.064 min
Lab File: j13819.D
Acq: 14 Oct 2009 4:37 pm

Tgt Ion:149 Resp: 119950

Ion	Ratio	Lower	Upper
149	100		
177	20.5	2.2	42.2
150	12.0	0.0	32.2



8.2.1

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 6000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13819.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.988	128	131	135	rBV	234544	227958	6.40%	0.668%
2	3.394	204	207	221	rBV	133803	215697	6.05%	0.632%
3	3.485	221	224	233	rVB2	33478	47587	1.34%	0.139%
4	3.704	262	265	286	rBV	1328642	2305489	64.71%	6.754%
5	3.999	317	320	323	rBV	150016	141401	3.97%	0.414%
6	4.105	334	340	352	rVB3	34805	79322	2.23%	0.232%
7	4.234	358	364	369	rBV2	118854	185350	5.20%	0.543%
8	4.485	407	411	425	rBV	848172	1458247	40.93%	4.272%
9	4.582	425	429	431	rVV2	41557	53609	1.50%	0.157%
10	4.608	431	434	443	rVB2	31110	48059	1.35%	0.141%
11	4.705	448	452	468	rVV	2137968	2616846	73.45%	7.666%
12	5.191	539	543	556	rBV	1289886	1694031	47.55%	4.963%
13	5.903	671	676	700	rBV	2632222	3230599	90.68%	9.464%
14	7.127	900	905	923	rBV	109983	214312	6.02%	0.628%
15	7.299	930	937	947	rBV	2661204	3562703	100.00%	10.437%
16	8.358	1127	1135	1148	rBV	2469172	3513316	98.61%	10.292%
17	8.449	1148	1152	1159	rVB	37142	49883	1.40%	0.146%
18	9.192	1286	1291	1300	rBB	261031	349796	9.82%	1.025%
19	9.796	1397	1404	1424	rBV	1424257	2404400	67.49%	7.043%
20	11.134	1645	1654	1670	rBV2	1692409	2950081	82.80%	8.642%
21	11.652	1745	1751	1760	rBB	40614	58236	1.63%	0.171%
22	12.508	1899	1911	1920	rBV2	31044	73140	2.05%	0.214%
23	13.562	2101	2108	2116	rBV2	24909	46529	1.31%	0.136%
24	14.295	2238	2245	2263	rBV	91259	168958	4.74%	0.495%
25	14.503	2275	2284	2298	rVB	1823023	3135445	88.01%	9.185%
26	15.680	2492	2504	2508	rBV	336752	636081	17.85%	1.863%
27	15.717	2508	2511	2515	rVV2	196870	379688	10.66%	1.112%
28	15.755	2515	2518	2532	rVV	193832	444922	12.49%	1.303%
29	15.862	2532	2538	2550	rVB	73467	159653	4.48%	0.468%
30	16.653	2675	2686	2703	rBV	1061203	2084081	58.50%	6.105%
31	18.488	3018	3029	3046	rBV	132949	298152	8.37%	0.873%
32	18.697	3061	3068	3074	rVB	22935	35721	1.00%	0.105%
33	19.461	3201	3211	3227	rBV	552064	1267308	35.57%	3.712%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On    : 14 Oct 2009   4:37 pm
Operator  : sheilac
Sample    : op13250-mb
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 6000 Area counts
Start Thrs: 0.2                           Max Peaks: 100
Stop Thrs : 0                        Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :
```

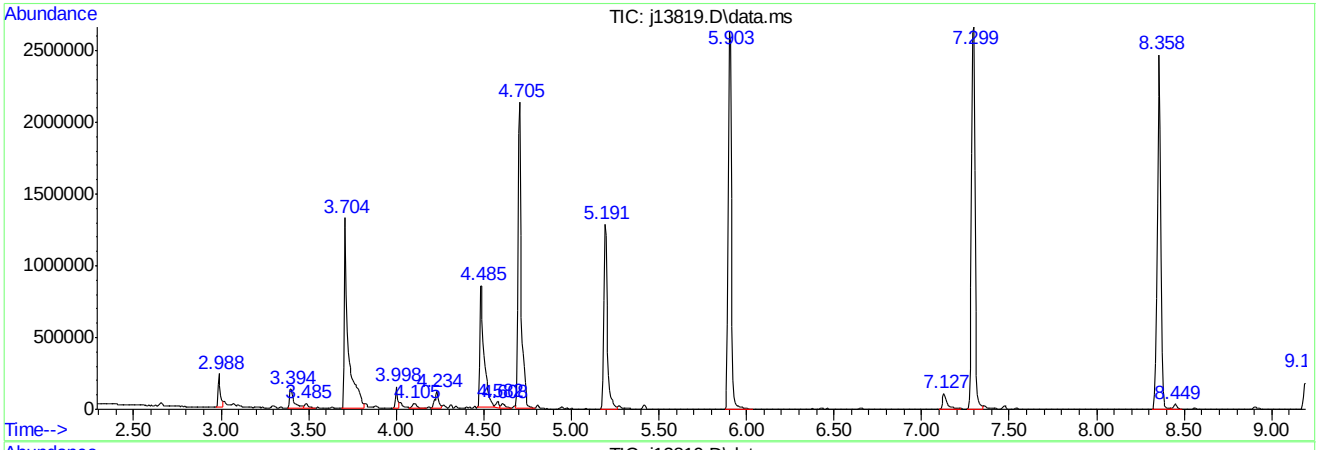
Sum of corrected areas: 34136600

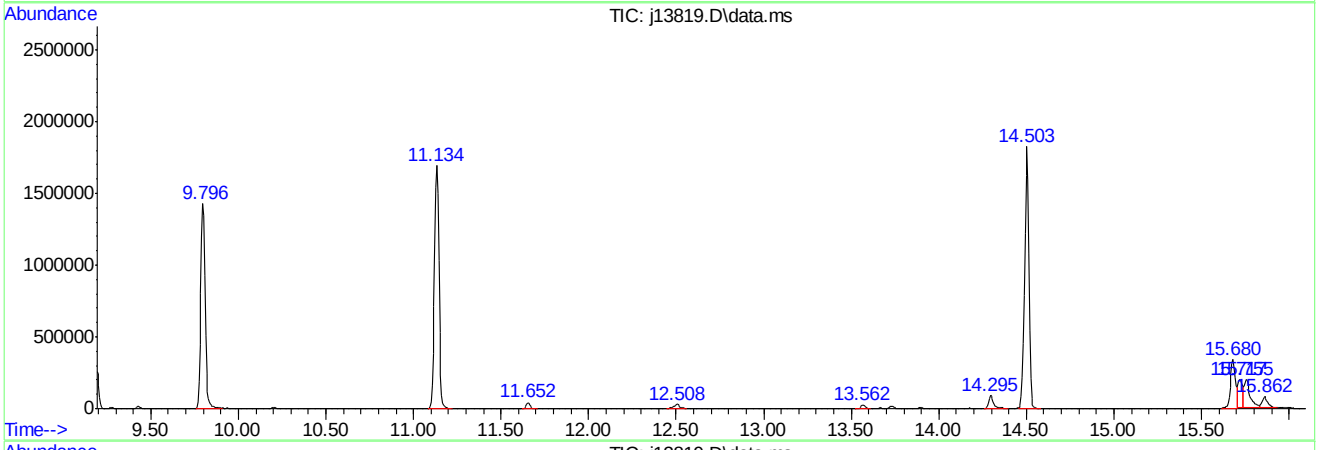
LSC Report - Integrated Chromatogram

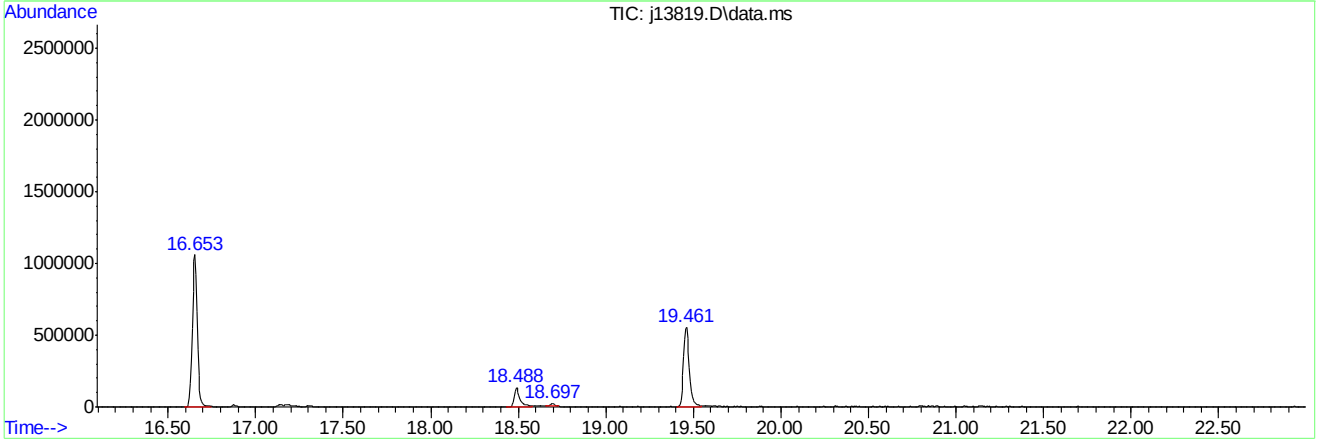
```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On    : 14 Oct 2009   4:37 pm
Operator  : sheilac
Sample    : op13250-mb
Misc      : op13250,Ej634,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

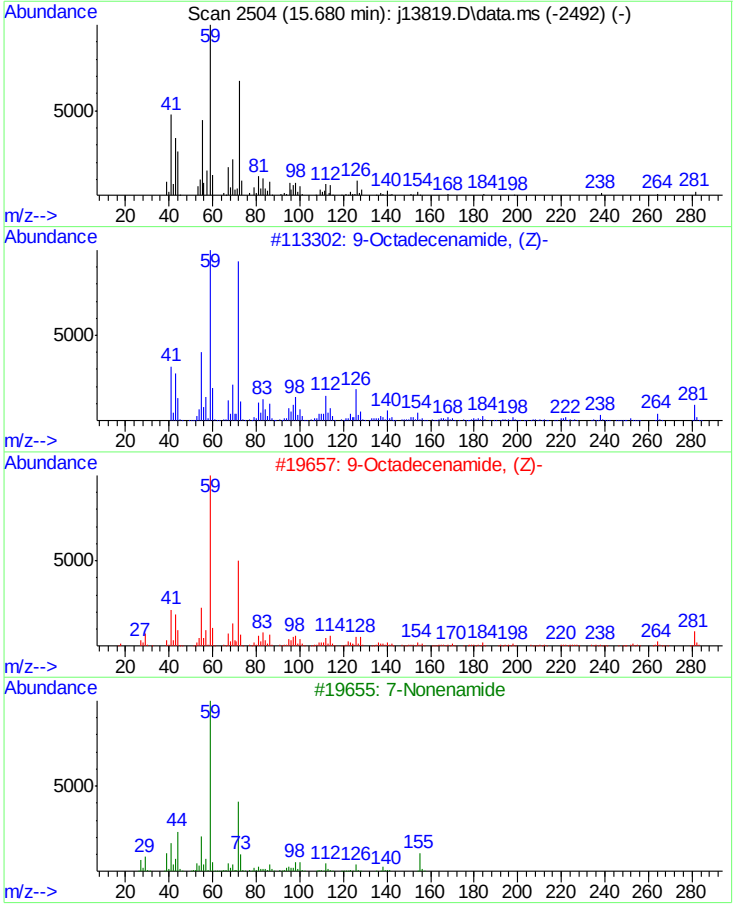
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

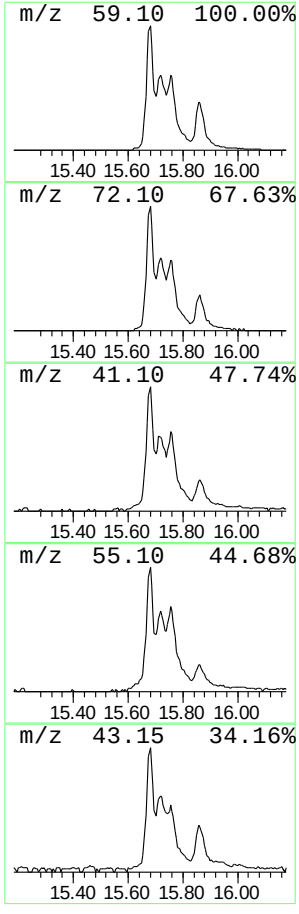
****

Peak Number 1 9-Octadecenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.680	12.21 ug/ml	636081	Chrysene-d12	16.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	81
3	7-Nonenamide	155	C9H17NO	090949-53-4	72
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
5	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	53





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

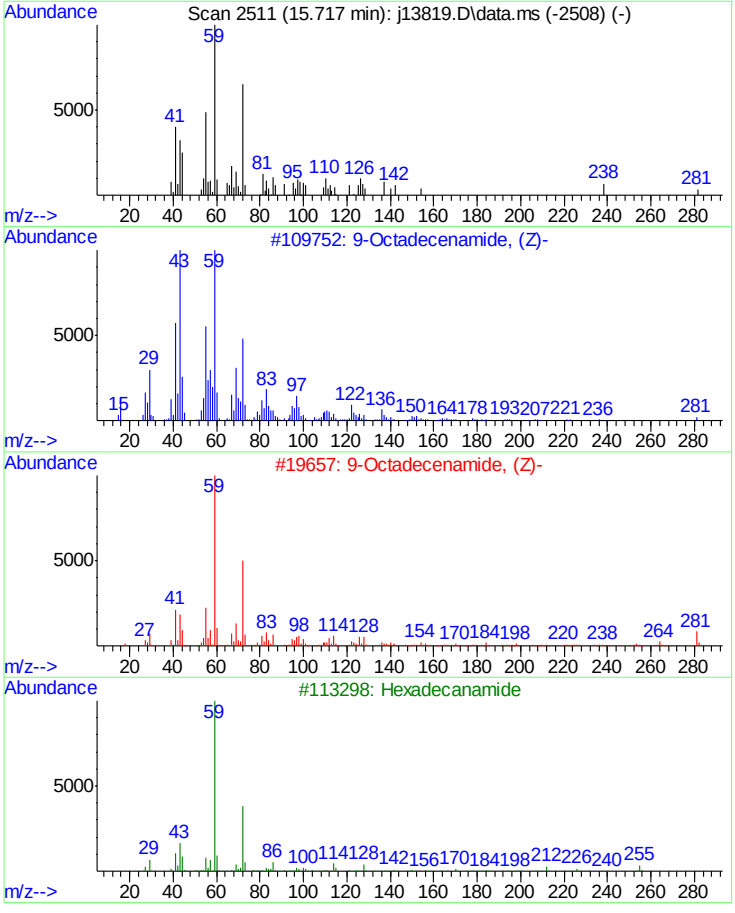
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

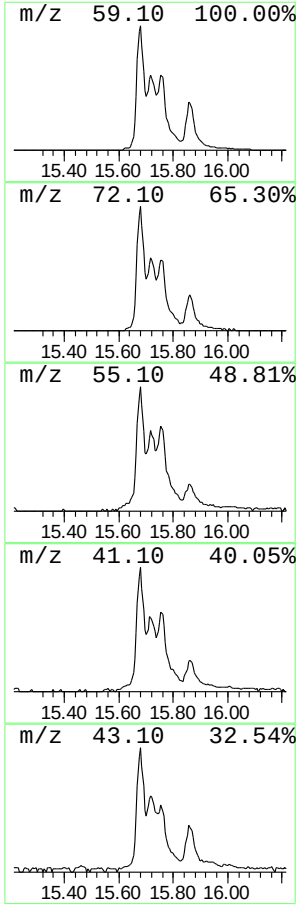
****

Peak Number 2 Hexadecanamide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.717	7.29 ug/ml	379688	Chrysene-d12	16.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	80
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
3	Hexadecanamide	255	C16H33NO	000629-54-9	50
4	Nonanamide	157	C9H19NO	001120-07-6	50
5	Hexanamide	115	C6H13NO	000628-02-4	49





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

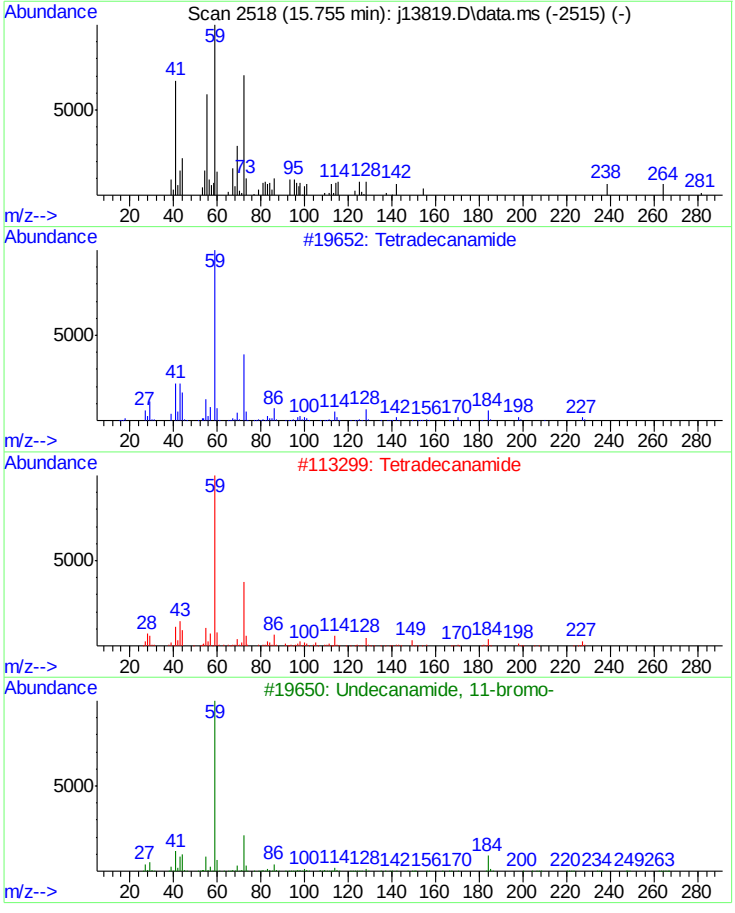
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

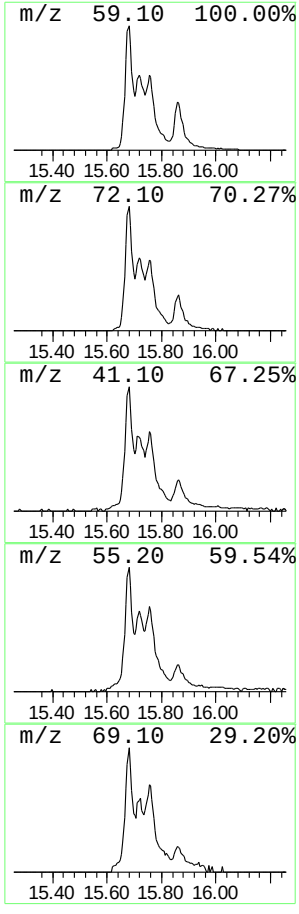
****

Peak Number 3 Tetradecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.755	8.54 ug/ml	444922	Chrysene-d12	16.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanamide	227	C14H29NO	000638-58-4	78
2	Tetradecanamide	227	C14H29NO	000638-58-4	59
3	Undecanamide, 11-bromo-	263	C11H22BrNO	1000163-84-6	53
4	Hexadecanamide	255	C16H33NO	000629-54-9	50
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	42





ACCUTEST Laboratories T39646

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

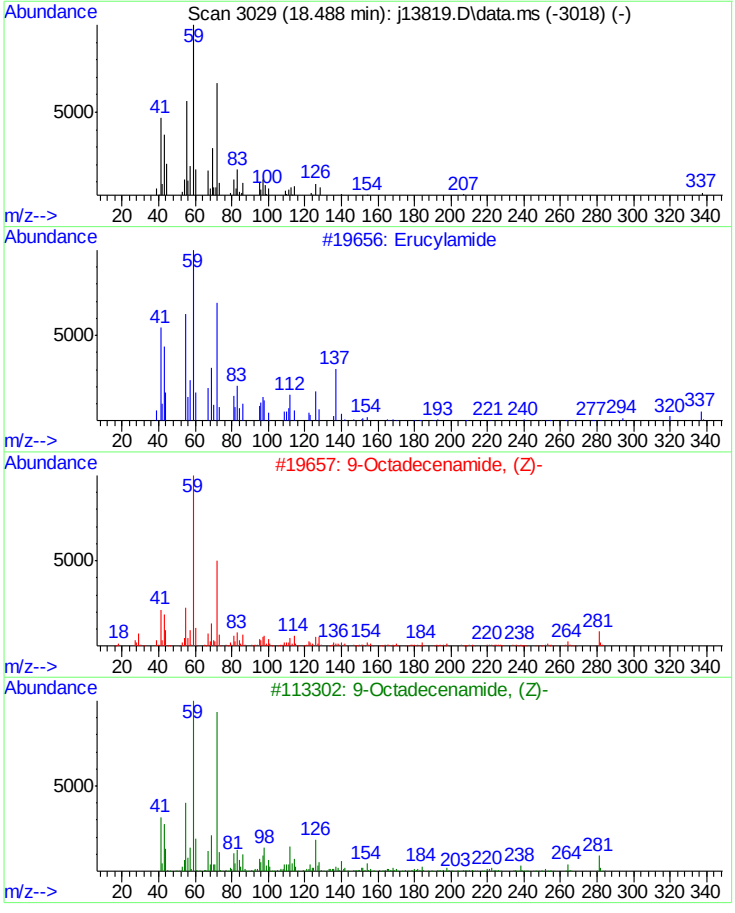
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

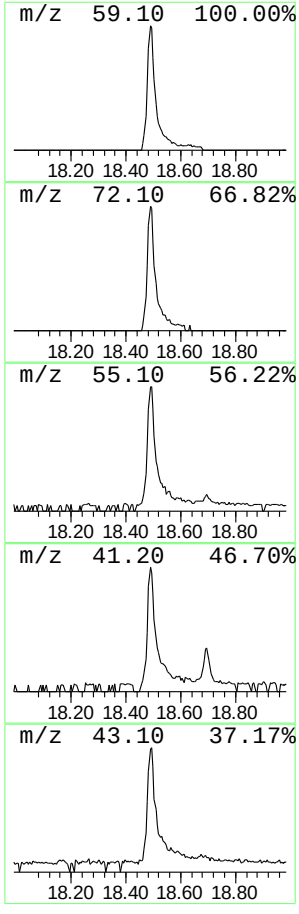
****

Peak Number 4 Erucylamide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.488	9.41 ug/ml	298152	Perylene-d12	19.461

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Erucylamide	337	C22H43NO	000112-84-5	91
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Hexadecanamide	255	C16H33NO	000629-54-9	64
5	Dodecanamide	199	C12H25NO	001120-16-7	59





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13819.D
Acq On : 14 Oct 2009 4:37 pm
Operator : sheilac
Sample : op13250-mb
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
9-Octadecenamid...	15.680	12.2	ug/ml	636081	5	16.653	2084080	40.0
Hexadecanamide	15.717	7.3	ug/ml	379688	5	16.653	2084080	40.0
Tetradecanamide	15.755	8.5	ug/ml	444922	5	16.653	2084080	40.0
Erucylamide	18.488	9.4	ug/ml	298152	6	19.461	1267310	40.0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35552.D Vial: 10
Acq On : 22 Oct 2009 3:49 pm Operator: sheilac
Sample : op13271-mb Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:08 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:08:17 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	70527	4.00 ppb	0.00
4) Naphthalene-d8	7.57	136	45925	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	38404	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	59137	4.00 ppb	0.00
21) Chrysene-d12	13.90	240	11146	4.00 ppb	0.00
26) Perylene-d12	16.38	264	3749	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	225403	46.32 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 926.40%#		
10) 2-Fluorobiphenyl	8.87	172	1678863	54.17 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1083.40%#		
16) 2,4,6-Tribromophenol	10.40	330	278858	140.01 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1400.10%#		
23) Terphenyl-d14	12.66	244	218616	55.58 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1111.60%#		

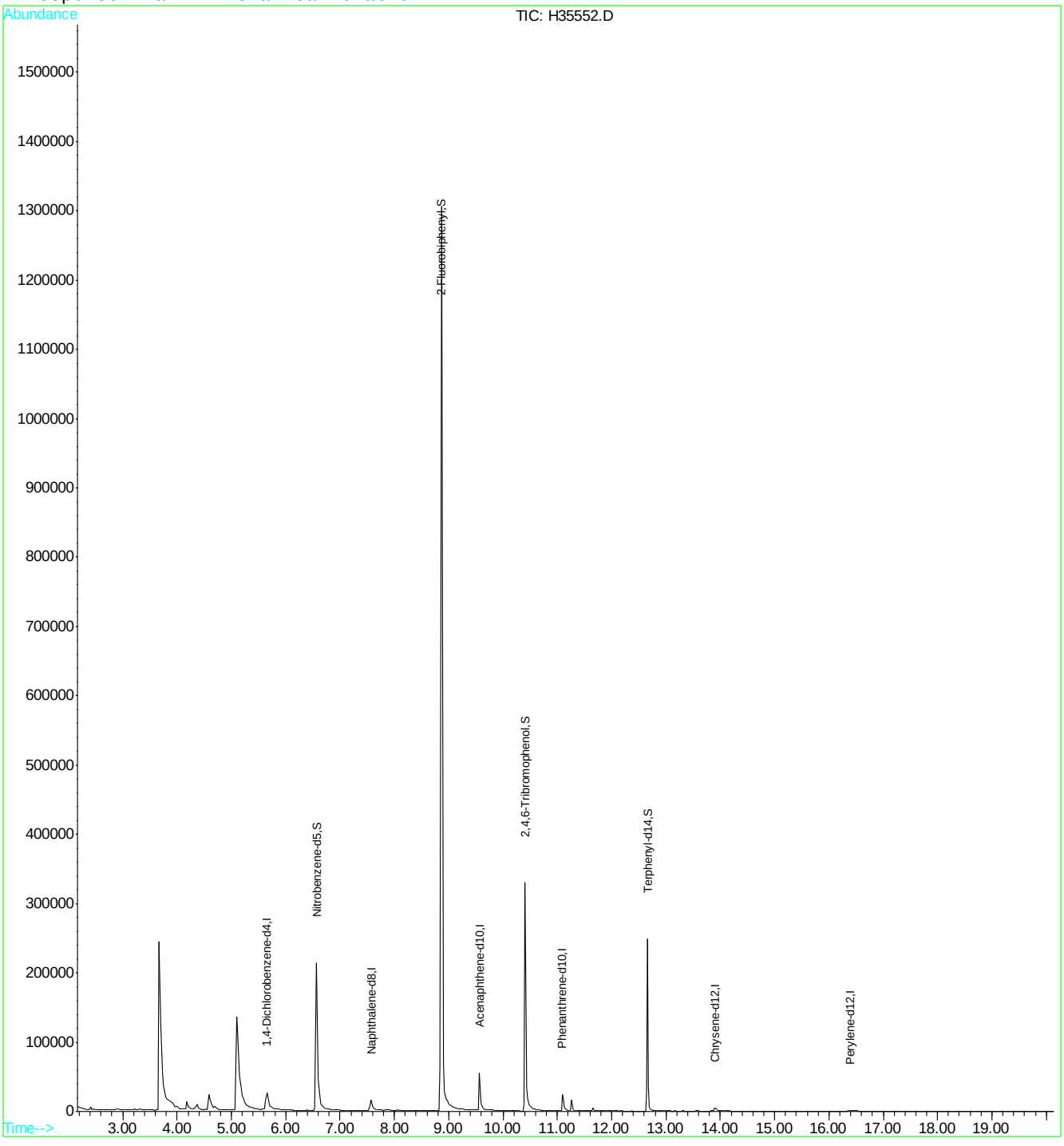
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35552.D H10229SP.M Thu Oct 22 16:16:08 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35552.D Vial: 10
Acq On : 22 Oct 2009 3:49 pm Operator: sheilac
Sample : op13271-mb Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:08 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:12:53 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13817.D
Acq On : 14 Oct 2009 3:11 pm
Operator : sheilac
Sample : op13250-bs,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 16:16:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	584901	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	2344638	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.368	164	1115741	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1410648	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	922073	40.00	ug/ml	-0.07
80) Perylene-d12	19.461	264	539976	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	796833	43.41	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 43.41%			
5) Phenol-d5 (SURR)	4.485	99	668605	29.14	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 29.14%			
21) Nitrobenzene-d5 (SURR)	5.202	82	867544	35.28	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.56%			
40) 2-Fluorobiphenyl (SURR)	7.304	172	1763809	40.58	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 81.16%			
62) 2,4,6-Tribromophenol (...	9.812	330	421547	88.82	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 88.82%			
74) Terphenyl-d14	14.503	244	1069518	48.58	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 97.16%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.458	74	208369	21.20	ug/ml	95
3) Pyridine	2.453	79	110695	6.38	ug/ml	97
6) Phenol	4.496	94	386383	15.56	ug/ml#	81
7) Aniline	4.458	93	439333	16.65	ug/ml	95
8) bis(2-Chloroethyl)ether	4.501	93	757014	31.11	ug/ml	96
9) 2-Chlorophenol	4.565	128	666637	34.62	ug/ml	99
10) 1,3-Dichlorobenzene	4.662	146	586522	26.89	ug/ml	98
11) 1,4-Dichlorobenzene	4.721	146	644871	27.55	ug/ml	88
12) Benzyl Alcohol	4.849	108	370837	27.64	ug/ml	97
13) 1,2-Dichlorobenzene	4.849	146	618512	28.17	ug/ml	100
14) 2-Methylphenol	4.977	108	501888	28.84	ug/ml	98
15) bis(2-chloroisopropyl)...	4.945	45	1065961	34.59	ug/ml	99
16) 4-Methylphenol	5.111	108	1011417	54.94	ug/ml#	67
17) m+p-Cresols	5.111	108	1011417	54.94	ug/ml#	67
18) n-Nitroso-di-n-propyla...	5.079	70	643823	38.55	ug/ml	99
19) Hexachloroethane	5.138	117	216212	25.32	ug/ml	100
22) Nitrobenzene	5.218	77	831626	34.44	ug/ml	99
23) Isophorone	5.448	82	1527776	34.46	ug/ml	99
24) 2-Nitrophenol	5.523	139	359506	32.38	ug/ml	96
25) 2,4-Dimethylphenol	5.592	122	404636	22.04	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.657	93	821243	33.61	ug/ml	100
27) Benzoic Acid	5.747	105	144363	15.83	ug/ml	91
28) 2,4-Dichlorophenol	5.796	162	524196	32.46	ug/ml	98
29) 1,2,4-Trichlorobenzene	5.849	180	498209	25.64	ug/ml	99
30) Naphthalene	5.935	128	1895094	29.68	ug/ml	98
31) 4-Chloroaniline	6.004	127	526948	24.15	ug/ml	96
32) Hexachlorobutadiene	6.079	225	288695	23.66	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13817.D
Acq On : 14 Oct 2009 3:11 pm
Operator : sheilac
Sample : op13250-bs,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 16:16:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

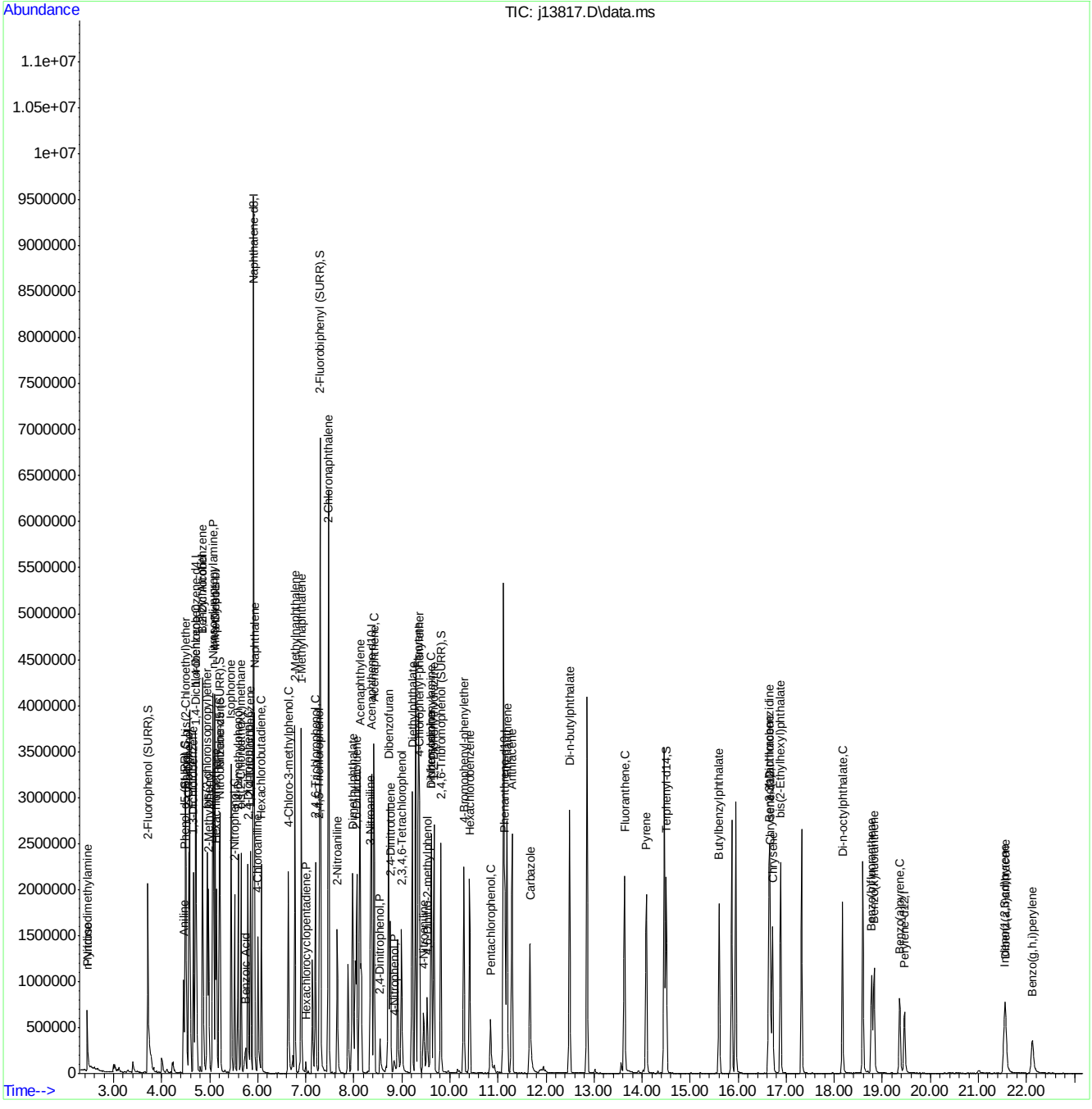
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.635	107	606902	33.27 ug/ml	99
34) 2-Methylnaphthalene	6.774	142	1258566	32.26 ug/ml	99
35) 1-Methylnaphthalene	6.908	142	1242174	30.40 ug/ml	99
37) Hexachlorocyclopentadiene	7.004	237	18175	11.74 ug/ml	95
38) 2,4,6-Trichlorophenol	7.202	196	373830	40.15 ug/ml	99
39) 2,4,5-Trichlorophenol	7.282	196	400823	36.97 ug/ml	98
41) 2-Chloronaphthalene	7.470	162	1237883	39.71 ug/ml	98
42) 2-Nitroaniline	7.657	65	452335	43.16 ug/ml	97
43) Dimethylphthalate	7.978	163	1618823	43.20 ug/ml	100
44) Acenaphthylene	8.128	152	2063518	39.05 ug/ml	100
45) 2,6-Dinitrotoluene	8.063	165	359177	40.74 ug/ml#	81
46) 3-Nitroaniline	8.347	138	280444	34.95 ug/ml	94
47) Acenaphthene	8.427	154	1220436	39.31 ug/ml	100
48) 2,4-Dinitrophenol	8.545	184	99228	37.92 ug/ml	93
49) 4-Nitrophenol	8.839	65	50534	12.43 ug/ml#	79
50) Dibenzofuran	8.727	168	1754361	39.56 ug/ml	99
51) 2,4-Dinitrotoluene	8.764	165	439117	41.59 ug/ml	96
52) 2,3,4,6-Tetrachlorophenol	8.994	232	297827	36.70 ug/ml	98
53) Diethylphthalate	9.219	149	1692334	43.53 ug/ml	99
54) Fluorene	9.347	166	1497704	38.75 ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.368	204	727547	37.12 ug/ml	98
56) 4-Nitroaniline	9.459	138	255872m	40.54 ug/ml	
58) 1,2-Diphenylhydrazine	9.668	77	1657875	46.21 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.529	198	173499	39.28 ug/ml	98
60) Diphenylamine	9.614	169	1027323	38.91 ug/ml	100
61) n-Nitrosodiphenylamine	9.614	169	1027323	38.91 ug/ml	100
63) 4-Bromophenyl-phenylether	10.294	248	398296	44.73 ug/ml	98
64) Hexachlorobenzene	10.417	284	446158	45.98 ug/ml	97
65) Pentachlorophenol	10.845	266	126068	40.17 ug/ml	98
66) Phenanthrene	11.192	178	1821136	43.33 ug/ml	100
67) Anthracene	11.294	178	1743996	43.10 ug/ml	100
68) Carbazole	11.668	167	1304197	40.03 ug/ml	99
69) Di-n-butylphthalate	12.492	149	2263524	44.85 ug/ml	99
70) Fluoranthene	13.637	202	1604020	42.10 ug/ml	99
73) Pyrene	14.091	202	1528271	47.04 ug/ml	100
75) Butylbenzylphthalate	15.605	149	692069	47.83 ug/ml	98
76) Benzo(a)anthracene	16.643	228	1212693	46.75 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.648	252	218847	34.42 ug/ml	99
78) Chrysene	16.718	228	1073844	49.11 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.883	149	952569	48.99 ug/ml	98
81) Di-n-octylphthalate	18.172	149	1386650	49.13 ug/ml#	100
82) Benzo(b)fluoranthene	18.777	252	883387	49.50 ug/ml	96
83) Benzo(k)fluoranthene	18.830	252	892275	54.74 ug/ml	99
84) Benzo(a)pyrene	19.365	252	683040	44.83 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.542	276	727965	56.66 ug/ml	98
86) Dibenz(a,h)anthracene	21.563	278	601777	56.44 ug/ml	96
87) Benzo(g,h,i)perylene	22.125	276	554497	57.13 ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13817.D
Acq On : 14 Oct 2009 3:11 pm
Operator : sheilac
Sample : op13250-bs,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 16:16:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

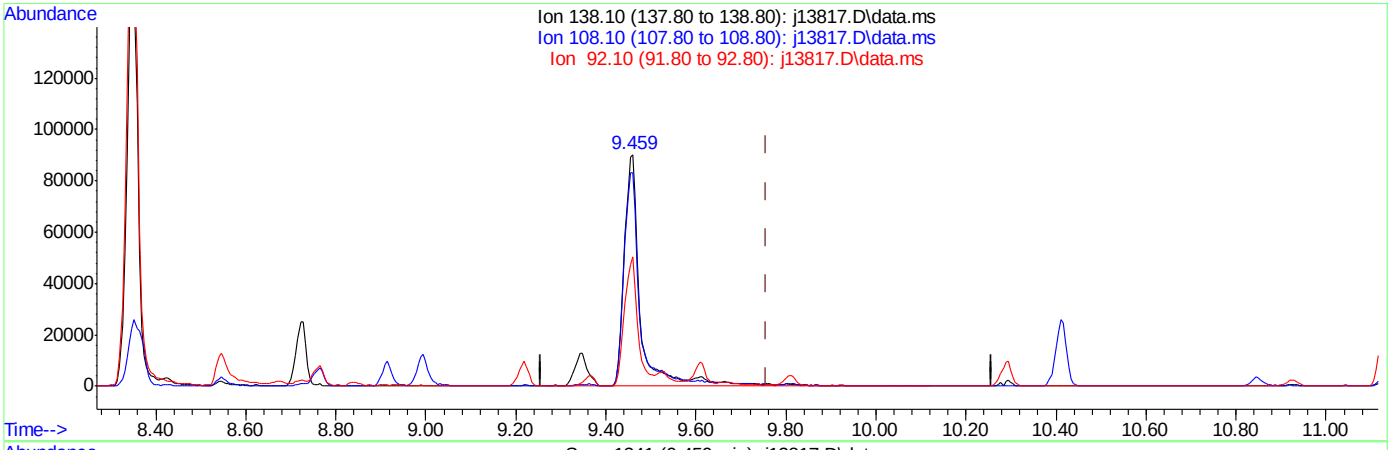


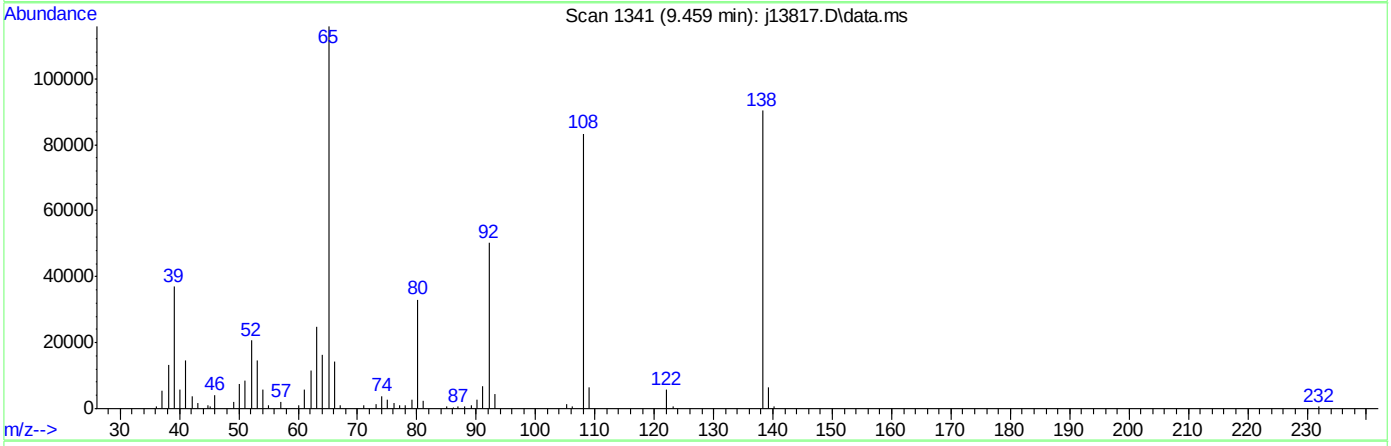
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13817.D
Acq On : 14 Oct 2009 3:11 pm
Operator : sheilac
Sample : op13250-bs,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 16:16:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration





TIC: j13817.D\data.ms

(56) 4-Nitroaniline

9.459min (-0.298) 40.54ug/ml m

response 255872

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	78.46
92.10	53.80	41.14
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13818.D
Acq On : 14 Oct 2009 3:41 pm
Operator : sheilac
Sample : op13250-bsd,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 16:02:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	511620	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	2055113	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.368	164	1056681	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.144	188	1517973	40.00	ug/ml	-0.06
71) Chrysene-d12	16.669	240	1334611	40.00	ug/ml	-0.06
80) Perylene-d12	19.467	264	783463	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	701280	43.68	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 43.68%			
5) Phenol-d5 (SURR)	4.485	99	582907	29.05	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 29.05%			
21) Nitrobenzene-d5 (SURR)	5.202	82	757955	35.17	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.34%			
40) 2-Fluorobiphenyl (SURR)	7.304	172	1592841	38.70	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 77.40%			
62) 2,4,6-Tribromophenol (...	9.812	330	441675	86.48	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 86.48%			
74) Terphenyl-d14	14.508	244	1406071	44.12	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 88.24%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.453	74	189371	22.02	ug/ml	92
3) Pyridine	2.442	79	89551	5.90	ug/ml	96
6) Phenol	4.496	94	339907	15.65	ug/ml#	80
7) Aniline	4.458	93	380577	16.51	ug/ml	94
8) bis(2-Chloroethyl)ether	4.501	93	668795	31.42	ug/ml	97
9) 2-Chlorophenol	4.565	128	585432	34.76	ug/ml	100
10) 1,3-Dichlorobenzene	4.662	146	516808	27.08	ug/ml	99
11) 1,4-Dichlorobenzene	4.720	146	564797	27.59	ug/ml	88
12) Benzyl Alcohol	4.849	108	320463	27.31	ug/ml	96
13) 1,2-Dichlorobenzene	4.849	146	543400	28.30	ug/ml	100
14) 2-Methylphenol	4.972	108	441873	29.03	ug/ml	99
15) bis(2-chloroisopropyl)...	4.945	45	947373	35.14	ug/ml	98
16) 4-Methylphenol	5.111	108	881599	54.74	ug/ml#	67
17) m+p-Cresols	5.111	108	881599	54.74	ug/ml#	67
18) n-Nitroso-di-n-propyla...	5.073	70	573235	39.24	ug/ml	99
19) Hexachloroethane	5.138	117	190977	25.57	ug/ml	99
22) Nitrobenzene	5.218	77	731248	34.55	ug/ml	98
23) Isophorone	5.448	82	1368844	35.22	ug/ml	100
24) 2-Nitrophenol	5.517	139	319409	32.82	ug/ml	96
25) 2,4-Dimethylphenol	5.592	122	363025	22.56	ug/ml	96
26) bis(2-Chloroethoxy)met...	5.651	93	721482	33.68	ug/ml	100
27) Benzoic Acid	5.747	105	128135	16.03	ug/ml	90
28) 2,4-Dichlorophenol	5.796	162	461621	32.61	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.849	180	437702	25.69	ug/ml	99
30) Naphthalene	5.935	128	1678197	29.98	ug/ml	98
31) 4-Chloroaniline	6.004	127	472076	24.62	ug/ml	97
32) Hexachlorobutadiene	6.079	225	258225	24.14	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13818.D
Acq On : 14 Oct 2009 3:41 pm
Operator : sheilac
Sample : op13250-bsd,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 16:02:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

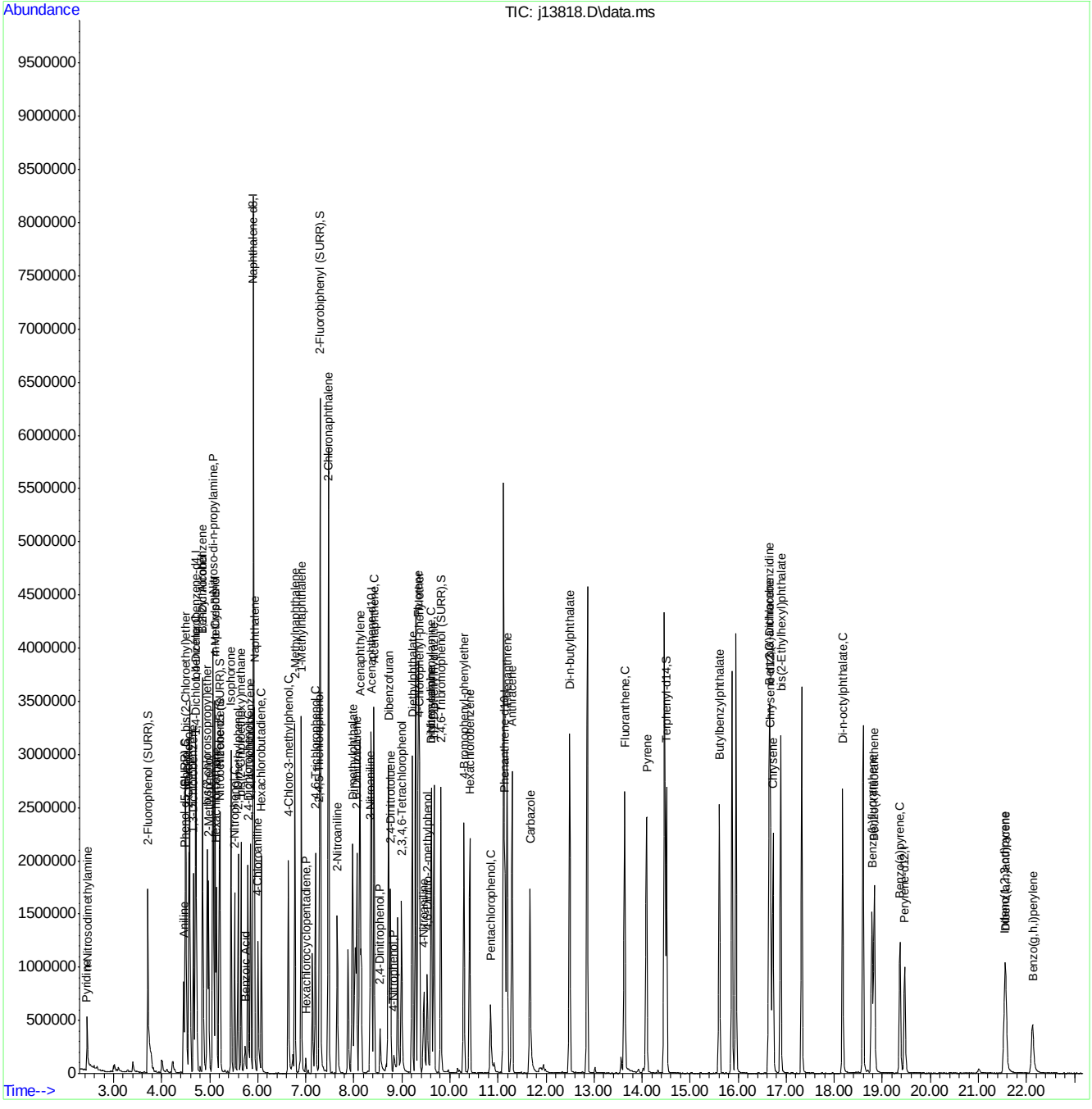
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.635	107	558674	34.94 ug/ml	98
34) 2-Methylnaphthalene	6.774	142	1129723	33.04 ug/ml	99
35) 1-Methylnaphthalene	6.908	142	1122714	31.35 ug/ml	99
37) Hexachlorocyclopentadiene	6.999	237	21336	13.12 ug/ml	95
38) 2,4,6-Trichlorophenol	7.202	196	344415	39.06 ug/ml	99
39) 2,4,5-Trichlorophenol	7.282	196	372703	36.37 ug/ml	97
41) 2-Chloronaphthalene	7.470	162	1129379	38.25 ug/ml	98
42) 2-Nitroaniline	7.657	65	438931	44.22 ug/ml	97
43) Dimethylphthalate	7.978	163	1558345	43.91 ug/ml	100
44) Acenaphthylene	8.128	152	1953052	39.03 ug/ml	100
45) 2,6-Dinitrotoluene	8.063	165	350765	42.01 ug/ml#	80
46) 3-Nitroaniline	8.347	138	286348	37.45 ug/ml	95
47) Acenaphthene	8.422	154	1155384	39.30 ug/ml	99
48) 2,4-Dinitrophenol	8.545	184	108893	42.35 ug/ml	92
49) 4-Nitrophenol	8.834	65	60229	14.80 ug/ml#	84
50) Dibenzofuran	8.721	168	1711086	40.74 ug/ml	99
51) 2,4-Dinitrotoluene	8.764	165	451173	45.12 ug/ml	97
52) 2,3,4,6-Tetrachlorophenol	8.994	232	306463	39.61 ug/ml	99
53) Diethylphthalate	9.224	149	1710734	46.47 ug/ml	99
54) Fluorene	9.347	166	1502671	41.06 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.368	204	711572	38.24 ug/ml	98
56) 4-Nitroaniline	9.459	138	237359	39.71 ug/ml	98
58) 1,2-Diphenylhydrazine	9.668	77	1698260	43.99 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.529	198	196635	41.06 ug/ml	98
60) Diphenylamine	9.614	169	1047102	36.86 ug/ml	100
61) n-Nitrosodiphenylamine	9.614	169	1047102	36.86 ug/ml	100
63) 4-Bromophenyl-phenylether	10.294	248	409506	42.73 ug/ml	98
64) Hexachlorobenzene	10.417	284	464743	44.51 ug/ml	97
65) Pentachlorophenol	10.845	266	146344	42.43 ug/ml	99
66) Phenanthrene	11.192	178	1966327	43.48 ug/ml	100
67) Anthracene	11.294	178	1895147	43.52 ug/ml	100
68) Carbazole	11.668	167	1541031	43.95 ug/ml	100
69) Di-n-butylphthalate	12.492	149	2643440	48.67 ug/ml	99
70) Fluoranthene	13.637	202	1995319	48.66 ug/ml	99
73) Pyrene	14.097	202	1938679	41.23 ug/ml	99
75) Butylbenzylphthalate	15.610	149	965445	46.10 ug/ml	99
76) Benzo(a)anthracene	16.648	228	1751144	46.64 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.653	252	334371	36.34 ug/ml	97
78) Chrysene	16.728	228	1533210	48.45 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.889	149	1350166	47.98 ug/ml	98
81) Di-n-octylphthalate	18.178	149	2007988	49.04 ug/ml	100
82) Benzo(b)fluoranthene	18.787	252	1293256	49.95 ug/ml	96
83) Benzo(k)fluoranthene	18.836	252	1352559	57.19 ug/ml	98
84) Benzo(a)pyrene	19.370	252	1012819	45.82 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.547	276	942253	50.55 ug/ml	97
86) Dibenz(a,h)anthracene	21.574	278	791441	51.16 ug/ml	96
87) Benzo(g,h,i)perylene	22.130	276	680682	48.34 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13818.D
Acq On : 14 Oct 2009 3:41 pm
Operator : sheilac
Sample : op13250-bsd,(8270)
Misc : op13250,Ej634,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 16:02:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35553.D Vial: 11
Acq On : 22 Oct 2009 4:19 pm Operator: sheilac
Sample : op13271-bs Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:40 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:12:53 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	103126	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	61058	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	64984	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	89100	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	16484	4.00	ppb	0.00
26) Perylene-d12	16.37	264	6746	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	18224	4.41	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	88.20%	
10) 2-Fluorobiphenyl	8.87	172	197432	3.76	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	75.20%	
16) 2,4,6-Tribromophenol	10.42	330	25345	9.27	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	92.70%	
23) Terphenyl-d14	12.66	244	16574	4.04	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	80.80%	

Target Compounds

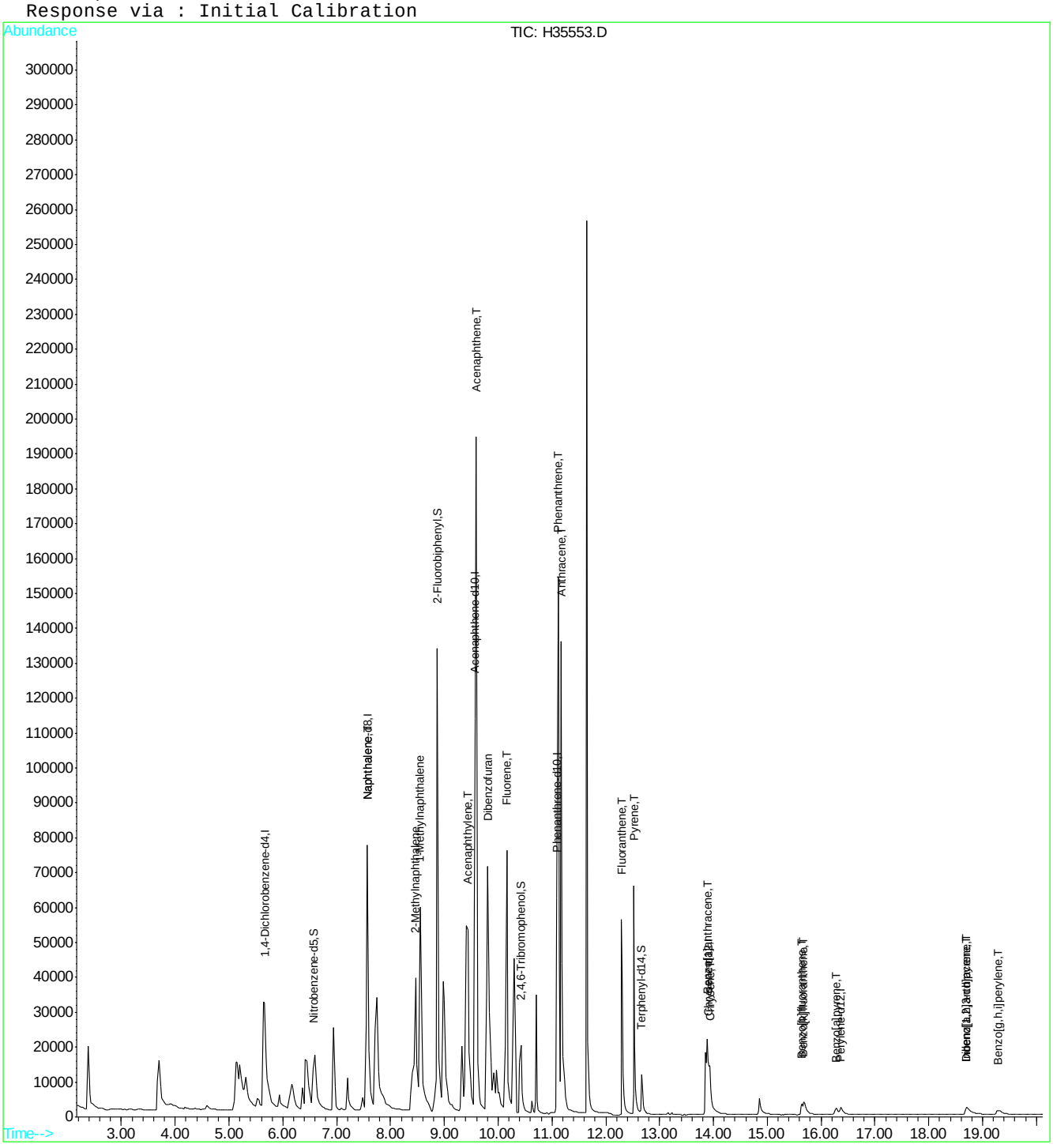
							Qvalue
6) Naphthalene	7.57	128	99139	3.08	ppb		98
7) 2-Methylnaphthalene	8.46	142	88940	4.21	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	99636	2.84	ppb	#	66
11) Acenaphthylene	9.43	152	108411	3.15	ppb		99
12) Acenaphthene	9.60	153	129067	3.31	ppb		99
13) Dibenzofuran	9.81	168	113897	2.41	ppb	#	79
14) Fluorene	10.16	166	68842	3.08	ppb		96
18) Phenanthrene	11.11	178	153497	3.66	ppb		97
19) Anthracene	11.17	178	176315	3.64	ppb		94
20) Fluoranthene	12.30	202	104180	4.13	ppb	#	90
22) Pyrene	12.53	202	96483	3.39	ppb		96
24) Benzo[a]anthracene	13.89	228	17068	3.63	ppb		97
25) Chrysene	13.94	228	26580m	3.62	ppb		
27) Benzo[b]fluoranthene	15.64	252	6992m	3.70	ppb		
28) Benzo[k]fluoranthene	15.67	252	14069m	3.72	ppb		
29) Benzo[a]pyrene	16.28	252	7553	3.11	ppb		95
30) Indeno[1,2,3-cd]pyrene	18.70	276	6758	3.52	ppb		88
31) Dibenz[a,h]anthracene	18.70	278	4659	3.50	ppb		94
32) Benzo[g,h,i]perylene	19.29	276	5987	3.47	ppb		99

(#) = qualifier out of range (m) = manual integration
H35553.D H10269SP.M Tue Oct 27 14:28:23 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35553.D Vial: 11
Acq On : 22 Oct 2009 4:19 pm Operator: sheilac
Sample : op13271-bs Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:40 2009 Quant Results File: H10229SP.RES

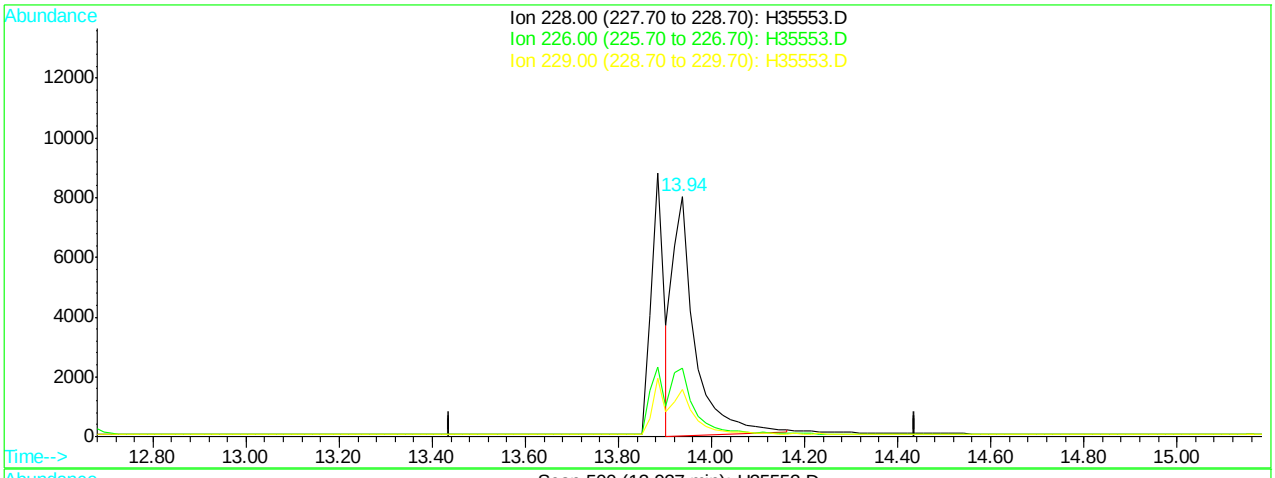
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

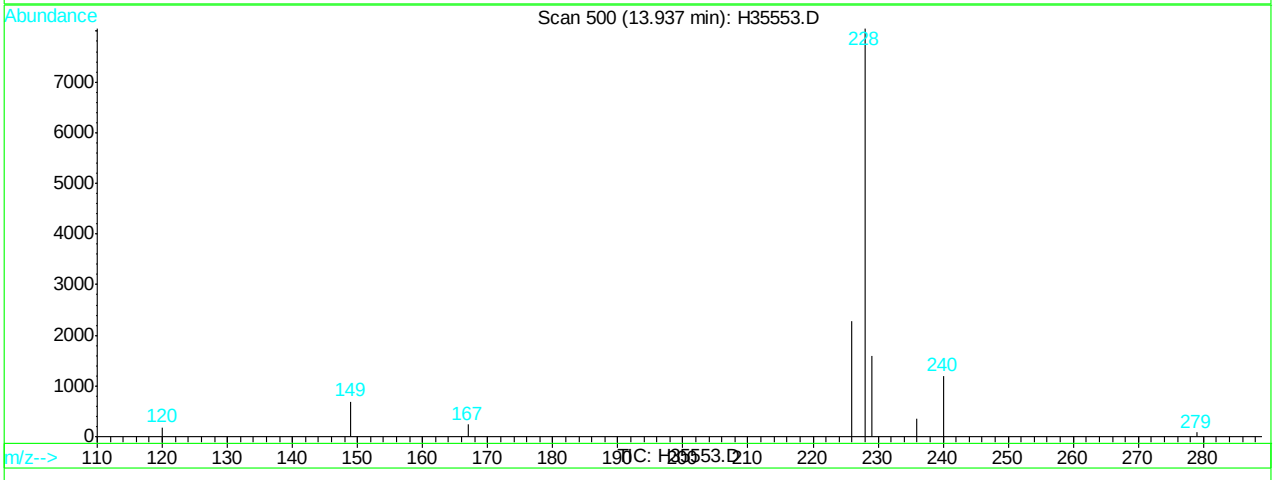


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35553.D Vial: 11
Acq On : 22 Oct 2009 4:19 pm Operator: sheilac
Sample : op13271-bs Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 3.62ppb m

response 26580

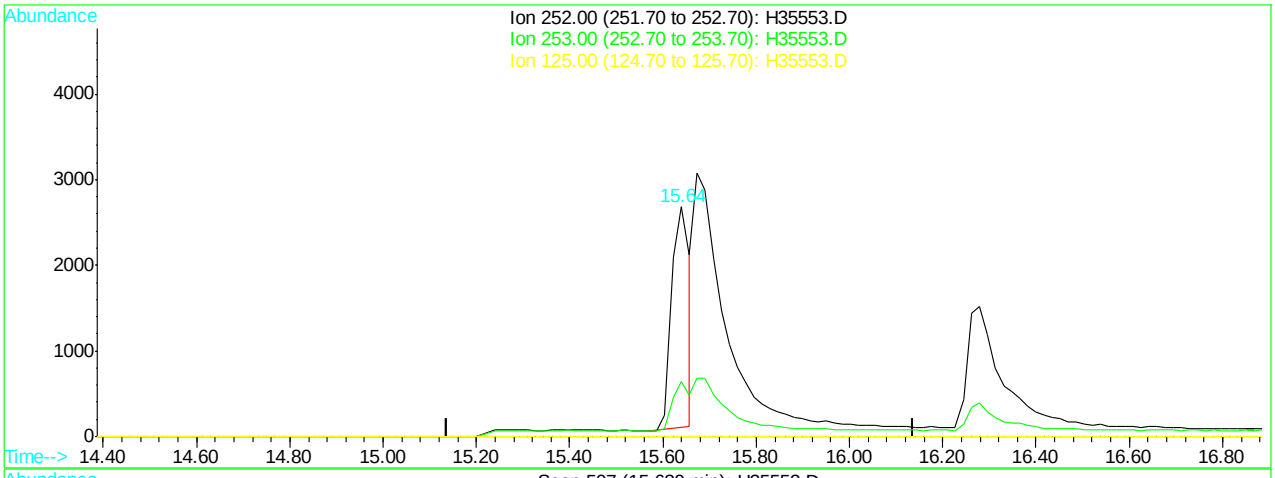
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	28.30
229.00	20.20	19.77
0.00	0.00	0.00

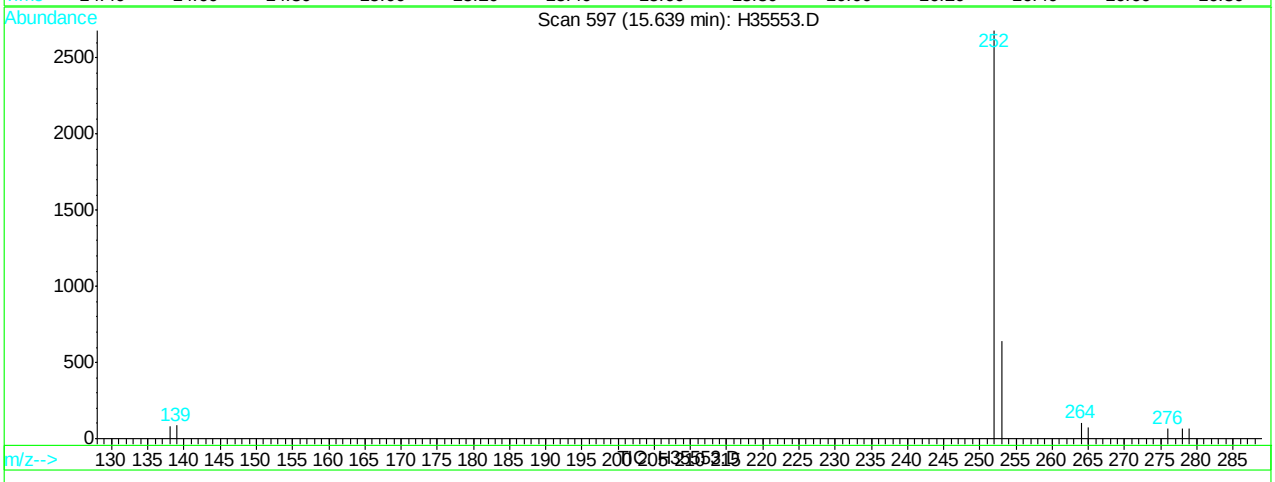
H35553.D H10269SP.M Tue Oct 27 14:28:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35553.D Vial: 11
Acq On : 22 Oct 2009 4:19 pm Operator: sheilac
Sample : op13271-bs Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 3.70ppb m

response 6992

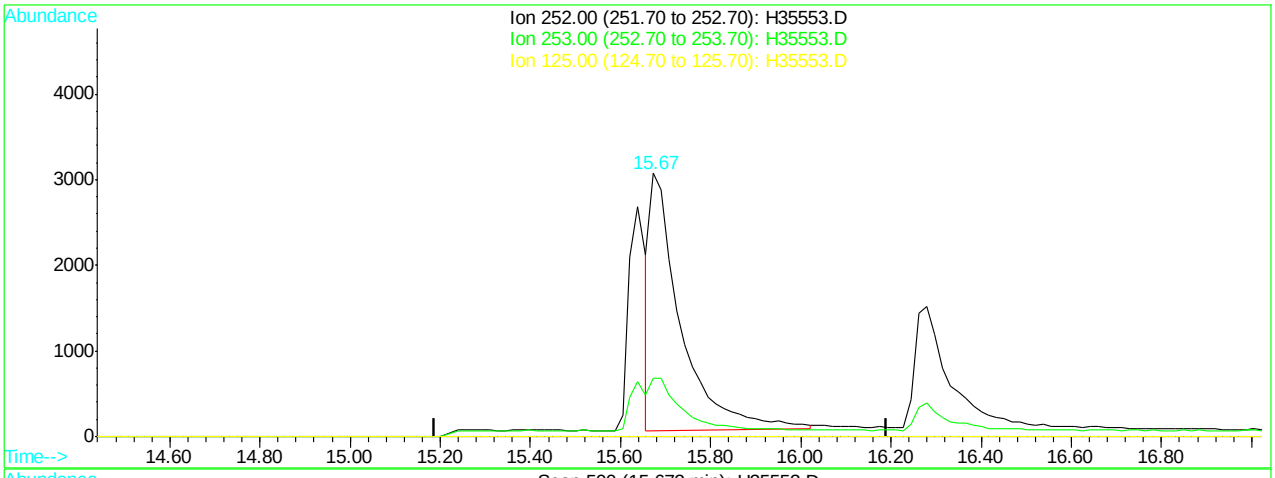
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	23.99
125.00	0.00	0.00
0.00	0.00	0.00

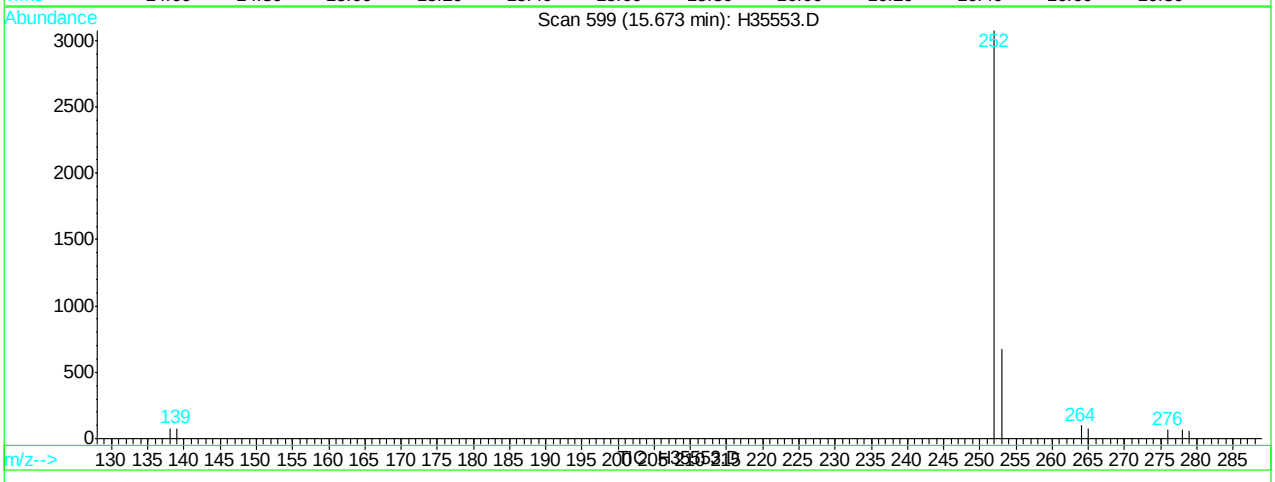
H35553.D H10269SP.M Tue Oct 27 14:28:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35553.D Vial: 11
Acq On : 22 Oct 2009 4:19 pm Operator: sheilac
Sample : op13271-bs Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 3.72ppb m

response 14069

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	21.95
125.00	0.00	0.00
0.00	0.00	0.00

H35553.D H10269SP.M Tue Oct 27 14:28:45 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35554.D Vial: 12
Acq On : 22 Oct 2009 4:48 pm Operator: sheilac
Sample : op13271-bsd Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:41 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:12:53 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	105421	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	66786	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	67957	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	91380	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	22443	4.00	ppb	0.00
26) Perylene-d12	16.37	264	8757	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.57	82	20135	4.45	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	89.00%	
10) 2-Fluorobiphenyl	8.87	172	206685	3.77	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	75.40%	
16) 2,4,6-Tribromophenol	10.42	330	26216	9.35	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	93.50%	
23) Terphenyl-d14	12.66	244	19880	3.56	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	71.20%	

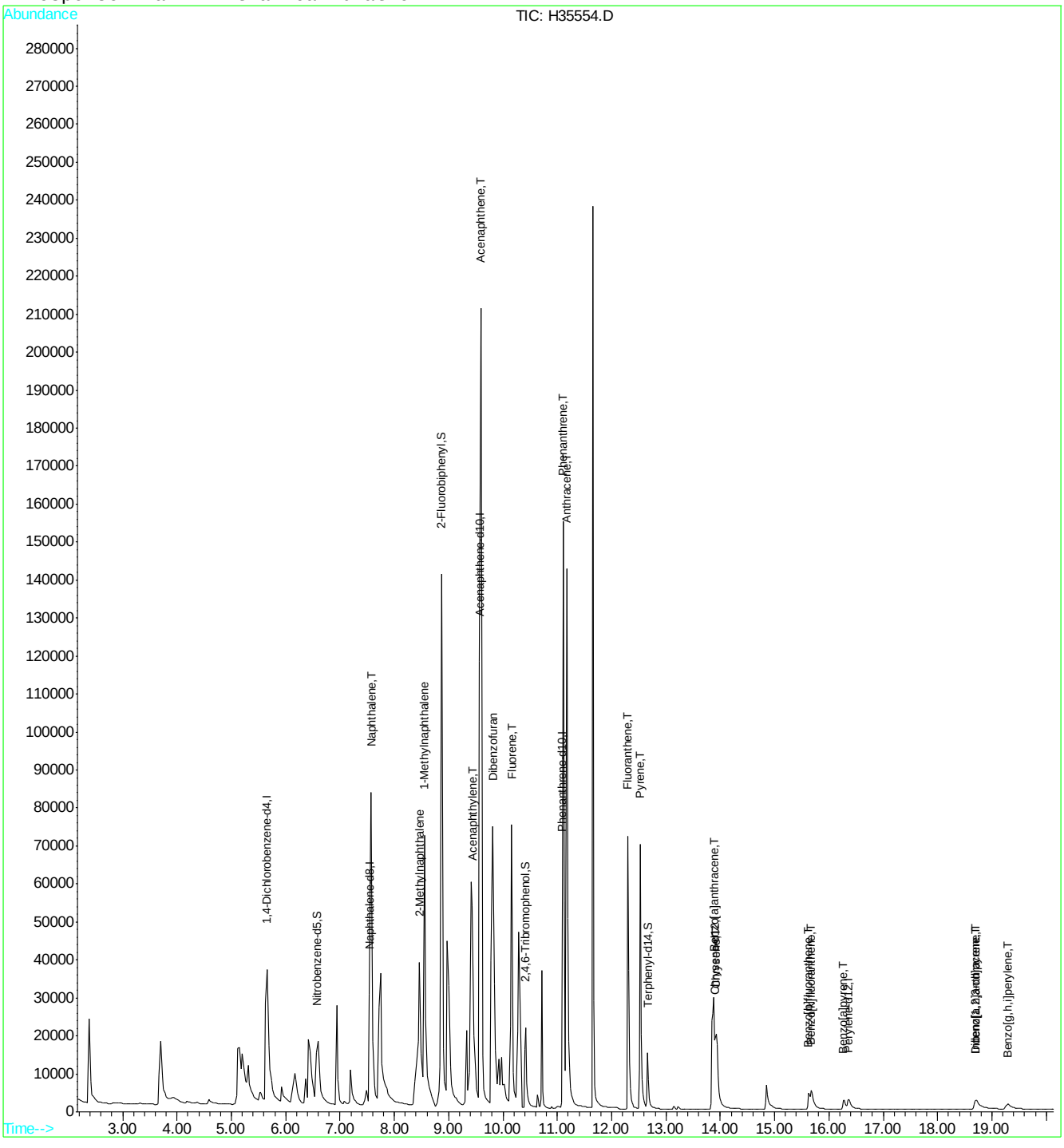
Target Compounds							Qvalue
6) Naphthalene	7.57	128	106669	3.04	ppb		98
7) 2-Methylnaphthalene	8.46	142	94388	4.09	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	112758	2.93	ppb	#	99
11) Acenaphthylene	9.43	152	114768	3.19	ppb		100
12) Acenaphthene	9.60	153	139568	3.43	ppb		99
13) Dibenzofuran	9.81	168	118295	2.40	ppb	#	78
14) Fluorene	10.16	166	69775	2.97	ppb		96
18) Phenanthrene	11.11	178	159529	3.71	ppb		99
19) Anthracene	11.17	178	188760	3.80	ppb		95
20) Fluoranthene	12.30	202	116771	4.46	ppb	#	92
22) Pyrene	12.53	202	104724	2.69	ppb		95
24) Benzo[a]anthracene	13.89	228	24777	3.84	ppb		94
25) Chrysene	13.92	228	33515	3.36	ppb		93
27) Benzo[b]fluoranthene	15.62	252	10723m	4.23	ppb		
28) Benzo[k]fluoranthene	15.67	252	18393m	3.74	ppb		
29) Benzo[a]pyrene	16.26	252	9798	3.10	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.70	276	8253	3.32	ppb		96
31) Dibenz[a,h]anthracene	18.70	278	5694	3.30	ppb		98
32) Benzo[g,h,i]perylene	19.29	276	7178	3.21	ppb		92

(#) = qualifier out of range (m) = manual integration
H35554.D H10269SP.M Tue Oct 27 14:28:56 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35554.D Vial: 12
Acq On : 22 Oct 2009 4:48 pm Operator: sheilac
Sample : op13271-bsd Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:41 2009 Quant Results File: H10229SP.RES

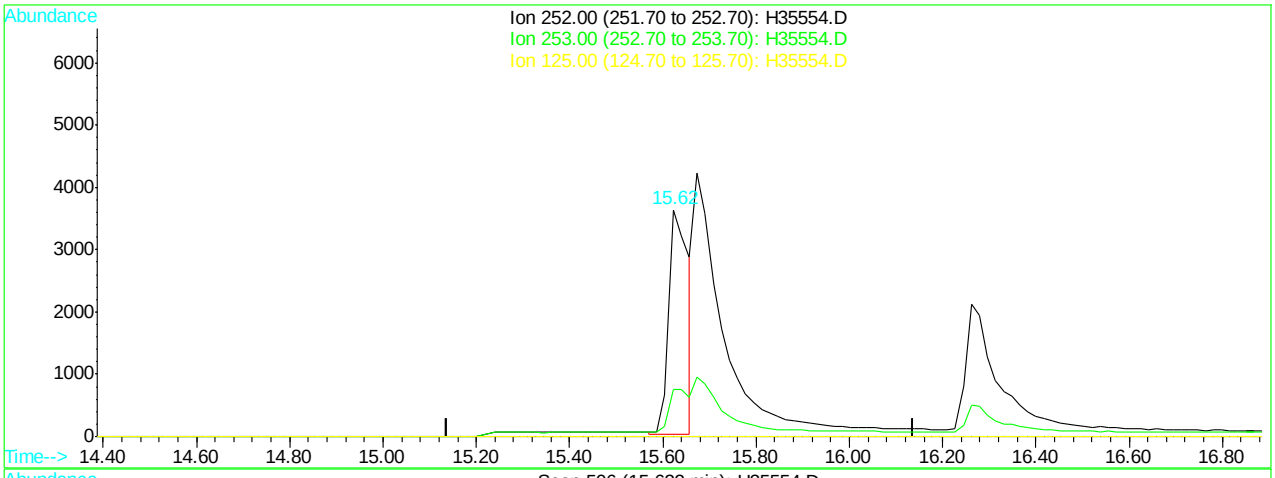
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

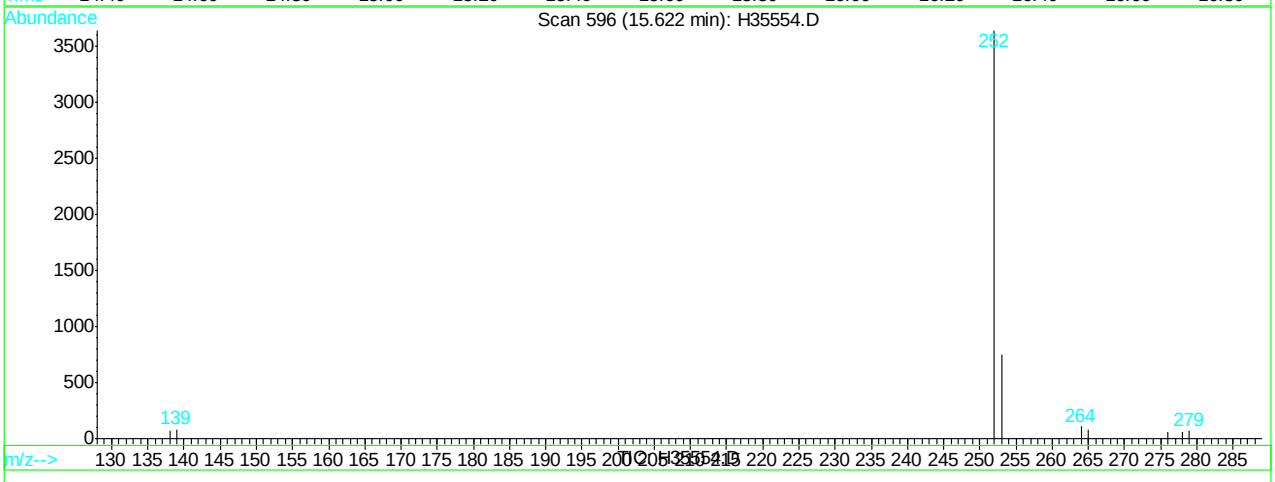


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35554.D Vial: 12
Acq On : 22 Oct 2009 4:48 pm Operator: sheilac
Sample : op13271-bsd Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.62min 4.23ppb m

response 10723

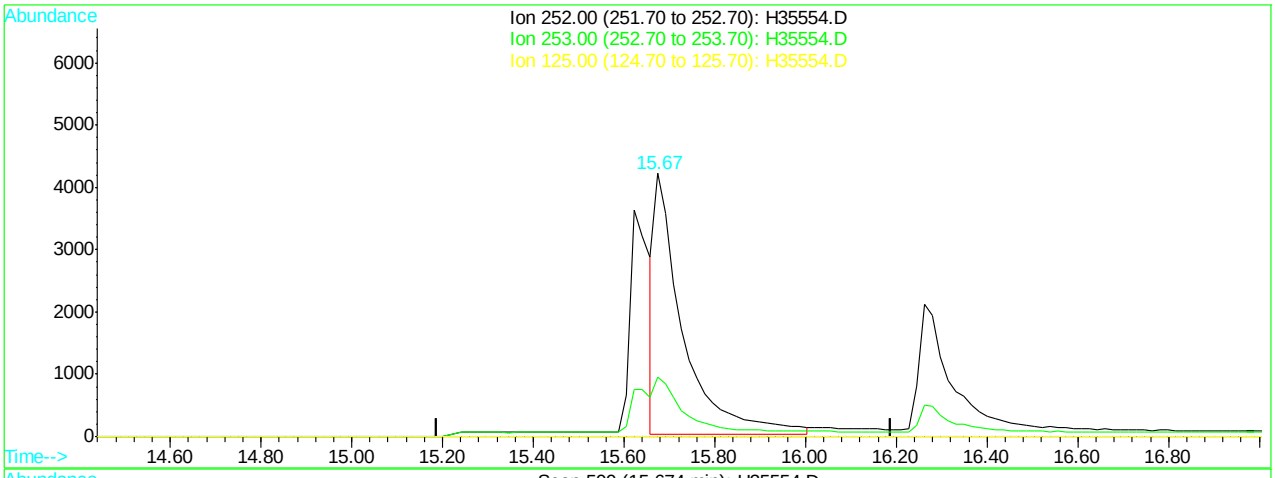
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	20.58
125.00	0.00	0.00
0.00	0.00	0.00

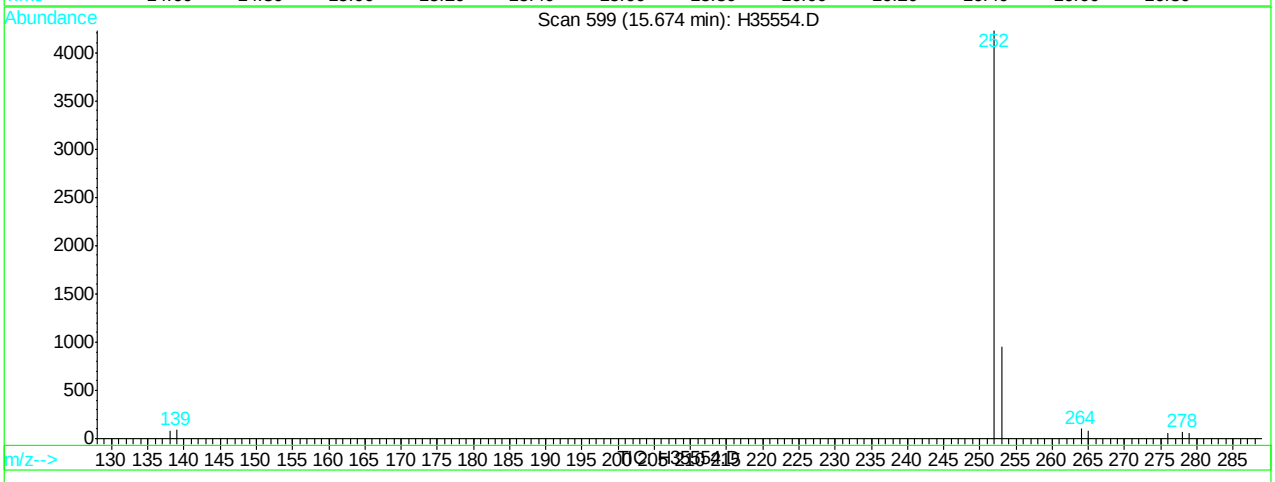
H35554.D H10269SP.M Tue Oct 27 14:29:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35554.D Vial: 12
Acq On : 22 Oct 2009 4:48 pm Operator: sheilac
Sample : op13271-bsd Inst : TXMSH
Misc : OP13271,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 3.74ppb m

response 18393

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	22.43
125.00	0.00	0.00
0.00	0.00	0.00

H35554.D H10269SP.M Tue Oct 27 14:29:12 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13824.D
Acq On : 14 Oct 2009 7:06 pm
Operator : sheilac
Sample : op13250-ms
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 16 14:44:30 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	507453	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1823817	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1016296	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1426077	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	965432	40.00	ug/ml	-0.07
80) Perylene-d12	19.461	264	494767	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	771230	48.43	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 48.43%			
5) Phenol-d5 (SURR)	4.485	99	835491	41.98	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 41.98%			
21) Nitrobenzene-d5 (SURR)	5.197	82	560872	29.33	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 58.66%			
40) 2-Fluorobiphenyl (SURR)	7.299	172	1050288	26.53	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 53.06%			
62) 2,4,6-Tribromophenol (...	9.807	330	245669	51.20	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 51.20%			
74) Terphenyl-d14	14.503	244	758107	32.89	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 65.78%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.458	74	256745	30.10	ug/ml	93
3) Pyridine	2.447	79	168557	11.20	ug/ml	97
6) Phenol	4.496	94	493919	22.93	ug/ml	96
7) Aniline	4.458	93	428203	18.43	ug/ml	95
8) bis(2-Chloroethyl)ether	4.501	93	543870	25.76	ug/ml	95
9) 2-Chlorophenol	4.565	128	471079	28.20	ug/ml	100
10) 1,3-Dichlorobenzene	4.656	146	473938	25.04	ug/ml	99
11) 1,4-Dichlorobenzene	4.720	146	513572	25.29	ug/ml	88
12) Benzyl Alcohol	4.849	108	311788	26.78	ug/ml	95
13) 1,2-Dichlorobenzene	4.849	146	484033	25.41	ug/ml	99
14) 2-Methylphenol	4.967	108	416616	27.59	ug/ml	99
15) bis(2-chloroisopropyl)...	4.945	45	765218	28.62	ug/ml	98
16) 4-Methylphenol	5.111	108	898775	56.27	ug/ml#	66
17) m+p-Cresols	5.111	108	898775	56.27	ug/ml#	66
18) n-Nitroso-di-n-propyla...	5.074	70	417052	28.78	ug/ml	98
19) Hexachloroethane	5.138	117	178085	24.04	ug/ml	99
22) Nitrobenzene	5.218	77	608812	32.41	ug/ml	97
23) Isophorone	5.443	82	1025572	29.73	ug/ml	99
24) 2-Nitrophenol	5.517	139	241240	27.93	ug/ml	95
25) 2,4-Dimethylphenol	5.587	122	388276	27.19	ug/ml	95
26) bis(2-Chloroethoxy)met...	5.651	93	551430	29.01	ug/ml	100
27) Benzoic Acid	5.758	105	192704	27.17	ug/ml	97
28) 2,4-Dichlorophenol	5.796	162	351048	27.94	ug/ml	100
29) 1,2,4-Trichlorobenzene	5.849	180	393255	26.01	ug/ml	100
30) Naphthalene	5.929	128	1424341	28.67	ug/ml	99
31) 4-Chloroaniline	6.004	127	359341	21.53	ug/ml	97
32) Hexachlorobutadiene	6.079	225	243196	25.62	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13824.D
Acq On : 14 Oct 2009 7:06 pm
Operator : sheilac
Sample : op13250-ms
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 16 14:44:30 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

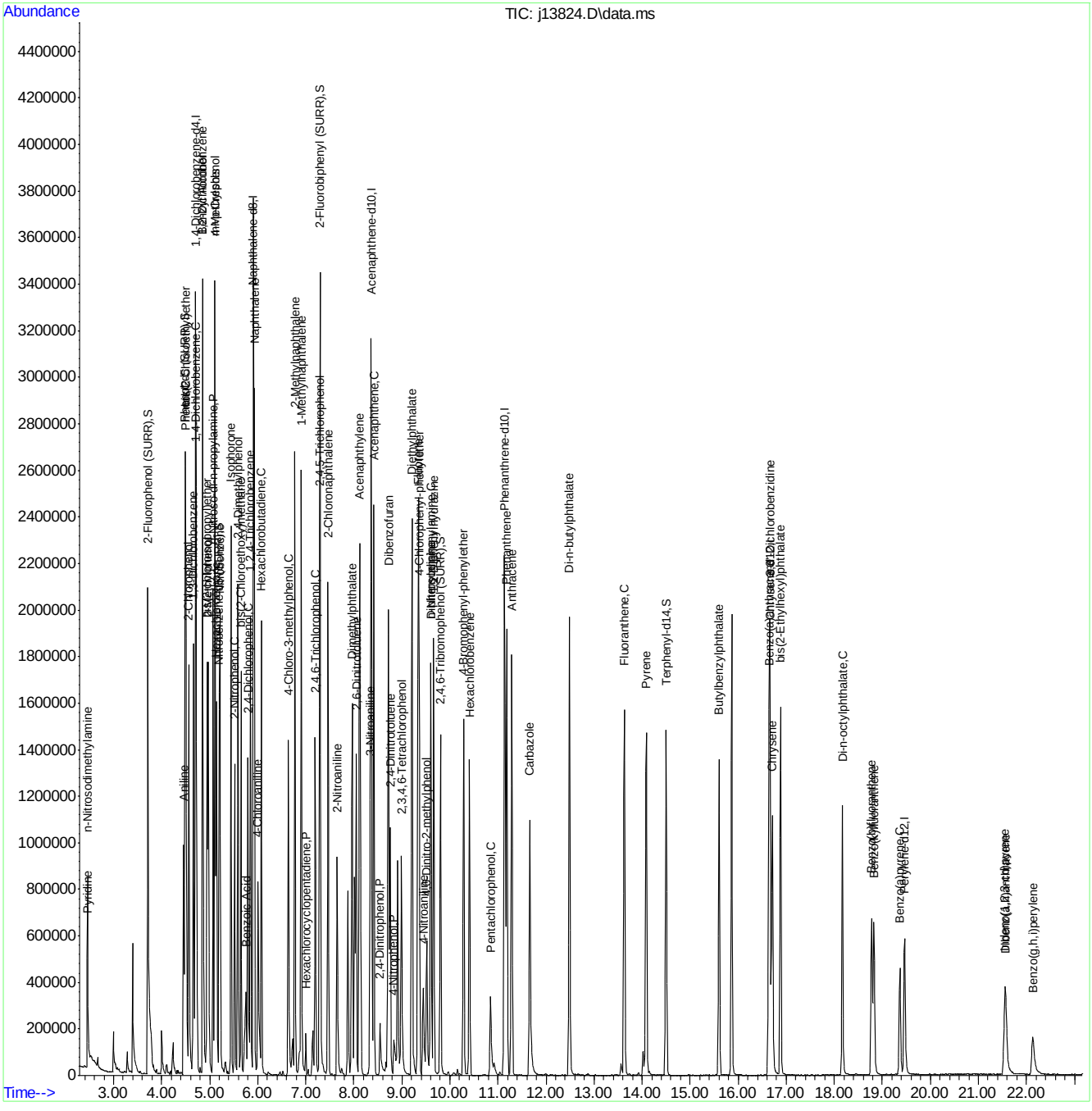
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.635	107	405254	28.56 ug/ml	99
34) 2-Methylnaphthalene	6.774	142	909043	29.96 ug/ml	99
35) 1-Methylnaphthalene	6.908	142	894346	28.14 ug/ml	98
37) Hexachlorocyclopentadiene	6.999	237	26410	11.57 ug/ml	97
38) 2,4,6-Trichlorophenol	7.197	196	242920	28.64 ug/ml	100
39) 2,4,5-Trichlorophenol	7.288	196	250252	26.52 ug/ml	100
41) 2-Chloronaphthalene	7.464	162	796495	28.05 ug/ml	99
42) 2-Nitroaniline	7.657	65	278260	29.15 ug/ml	96
43) Dimethylphthalate	7.967	163	1019662	29.88 ug/ml	100
44) Acenaphthylene	8.122	152	1387217	28.82 ug/ml	100
45) 2,6-Dinitrotoluene	8.053	165	224159	27.92 ug/ml	92
46) 3-Nitroaniline	8.342	138	183260	25.97 ug/ml	95
47) Acenaphthene	8.416	154	814737	28.81 ug/ml	100
48) 2,4-Dinitrophenol	8.545	184	64054	29.59 ug/ml	91
49) 4-Nitrophenol	8.834	65	69501	17.11 ug/ml#	80
50) Dibenzofuran	8.721	168	1147848	28.42 ug/ml	98
51) 2,4-Dinitrotoluene	8.759	165	277428	28.85 ug/ml	95
52) 2,3,4,6-Tetrachlorophenol	8.994	232	187902	26.35 ug/ml	98
53) Diethylphthalate	9.213	149	1283678	36.25 ug/ml	99
54) Fluorene	9.336	166	977870	27.78 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.363	204	463617	26.73 ug/ml	98
56) 4-Nitroaniline	9.449	138	137985m	24.00 ug/ml	
58) 1,2-Diphenylhydrazine	9.663	77	1102756	30.41 ug/ml	98
59) 4,6-Dinitro-2-methylph...	9.518	198	117460	28.23 ug/ml	99
60) Diphenylamine	9.604	169	671948	25.18 ug/ml	100
61) n-Nitrosodiphenylamine	9.604	169	671948	25.18 ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	255170	28.34 ug/ml	98
64) Hexachlorobenzene	10.411	284	284849	29.04 ug/ml	96
65) Pentachlorophenol	10.845	266	82856	29.97 ug/ml	99
66) Phenanthrene	11.187	178	1243148	29.26 ug/ml	100
67) Anthracene	11.289	178	1204304	29.44 ug/ml	100
68) Carbazole	11.663	167	944902	28.69 ug/ml	100
69) Di-n-butylphthalate	12.487	149	1558313	30.54 ug/ml	99
70) Fluoranthene	13.631	202	1181049	30.66 ug/ml	99
73) Pyrene	14.086	202	1133684	33.33 ug/ml	100
75) Butylbenzylphthalate	15.605	149	498518	32.91 ug/ml	97
76) Benzo(a)anthracene	16.643	228	845971	31.15 ug/ml	98
77) 3,3'-Dichlorobenzidine	16.659	252	58683	8.82 ug/ml	89
78) Chrysene	16.712	228	746892	32.62 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.883	149	648167	31.84 ug/ml	97
81) Di-n-octylphthalate	18.172	149	871072	35.08 ug/ml#	100
82) Benzo(b)fluoranthene	18.777	252	550103	33.64 ug/ml	94
83) Benzo(k)fluoranthene	18.825	252	521722	34.93 ug/ml	99
84) Benzo(a)pyrene	19.365	252	397301	28.46 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.547	276	374247	31.79 ug/ml	98
86) Dibenz(a,h)anthracene	21.574	278	314392	32.18 ug/ml	96
87) Benzo(g,h,i)perylene	22.136	276	282267	31.74 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13824.D
Acq On : 14 Oct 2009 7:06 pm
Operator : sheilac
Sample : op13250-ms
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 16 14:44:30 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13824.D
Acq On    : 14 Oct 2009   7:06 pm
Operator  : sheilac
Sample    : op13250-ms
Misc      : op13250,Ej634,500,,,1,1,water
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Oct 16 14:44:30 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration
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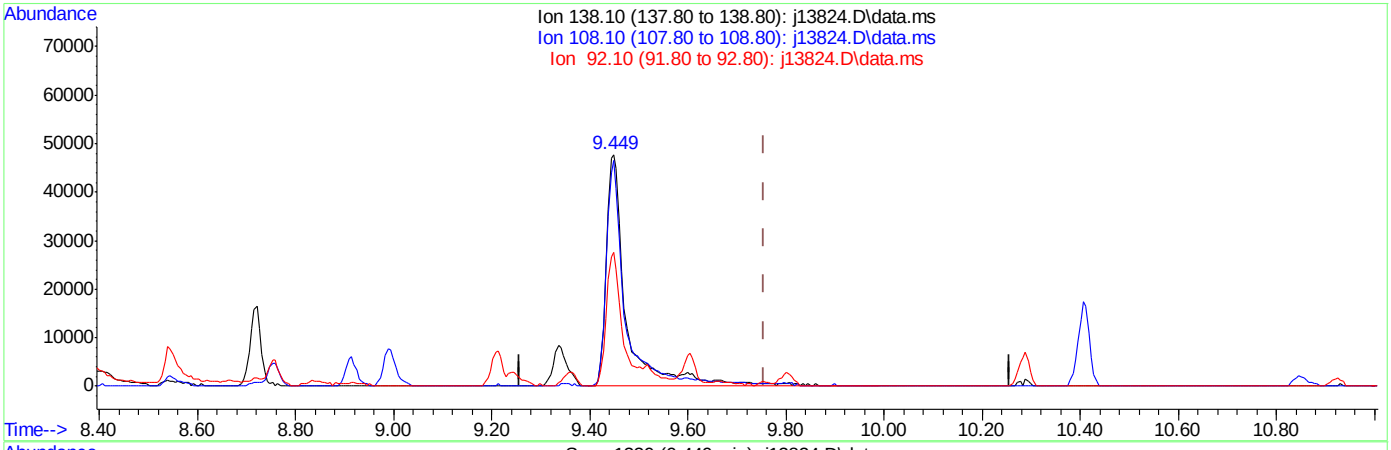
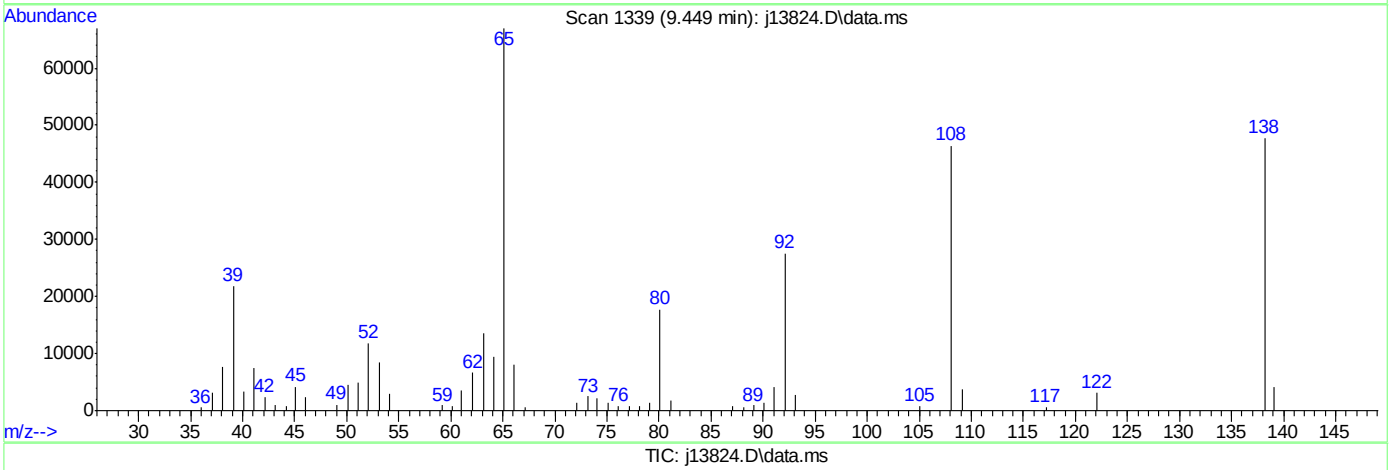




(56) 4-Nitroaniline

9.449min (-0.309) 24.00ug/ml m

response 137985

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	85.94
92.10	53.80	45.32
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13825.D
Acq On : 14 Oct 2009 7:35 pm
Operator : sheilac
Sample : op13250-msd
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 14:44:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	459952	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	1663146	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	930717	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1288190	40.00	ug/ml	-0.06
71) Chrysene-d12	16.659	240	941141	40.00	ug/ml	-0.07
80) Perylene-d12	19.461	264	501371	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.709	112	728122	50.44	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 50.44%			
5) Phenol-d5 (SURR)	4.485	99	788731	43.72	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 43.72%			
21) Nitrobenzene-d5 (SURR)	5.196	82	523390	30.01	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 60.02%			
40) 2-Fluorobiphenyl (SURR)	7.298	172	989111	27.28	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 54.56%			
62) 2,4,6-Tribromophenol (...	9.807	330	228629	52.75	ug/ml	-0.16
Spiked Amount 100.000	Range 32 - 128		Recovery = 52.75%			
74) Terphenyl-d14	14.503	244	720030	32.04	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 64.08%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.453	74	242900	31.42	ug/ml	91
3) Pyridine	2.436	79	153559	11.26	ug/ml	99
6) Phenol	4.496	94	463114	23.72	ug/ml	94
7) Aniline	4.458	93	398205	18.86	ug/ml	95
8) bis(2-Chloroethyl)ether	4.501	93	517572	27.04	ug/ml	95
9) 2-Chlorophenol	4.565	128	444304	29.34	ug/ml	100
10) 1,3-Dichlorobenzene	4.656	146	443796	25.87	ug/ml	99
11) 1,4-Dichlorobenzene	4.720	146	477342	25.94	ug/ml	88
12) Benzyl Alcohol	4.849	108	291110	27.59	ug/ml	95
13) 1,2-Dichlorobenzene	4.849	146	452843	26.23	ug/ml	99
14) 2-Methylphenol	4.972	108	391691	28.62	ug/ml	99
15) bis(2-chloroisopropyl)...	4.945	45	723655	29.86	ug/ml	98
16) 4-Methylphenol	5.111	108	847088	58.51	ug/ml#	66
17) m+p-Cresols	5.111	108	847088	58.51	ug/ml#	66
18) n-Nitroso-di-n-propyla...	5.073	70	392629	29.90	ug/ml	98
19) Hexachloroethane	5.138	117	167407	24.93	ug/ml	99
22) Nitrobenzene	5.212	77	579076	33.81	ug/ml	97
23) Isophorone	5.442	82	970895	30.87	ug/ml	99
24) 2-Nitrophenol	5.517	139	227654	28.91	ug/ml	95
25) 2,4-Dimethylphenol	5.587	122	373233	28.66	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.651	93	518626	29.92	ug/ml	100
27) Benzoic Acid	5.753	105	166918	25.81	ug/ml	98
28) 2,4-Dichlorophenol	5.795	162	328601	28.68	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.849	180	365268	26.50	ug/ml	99
30) Naphthalene	5.929	128	1328447	29.33	ug/ml	99
31) 4-Chloroaniline	6.004	127	334456	21.92	ug/ml	95
32) Hexachlorobutadiene	6.079	225	226028	26.11	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13825.D
Acq On : 14 Oct 2009 7:35 pm
Operator : sheilac
Sample : op13250-msd
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 14:44:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

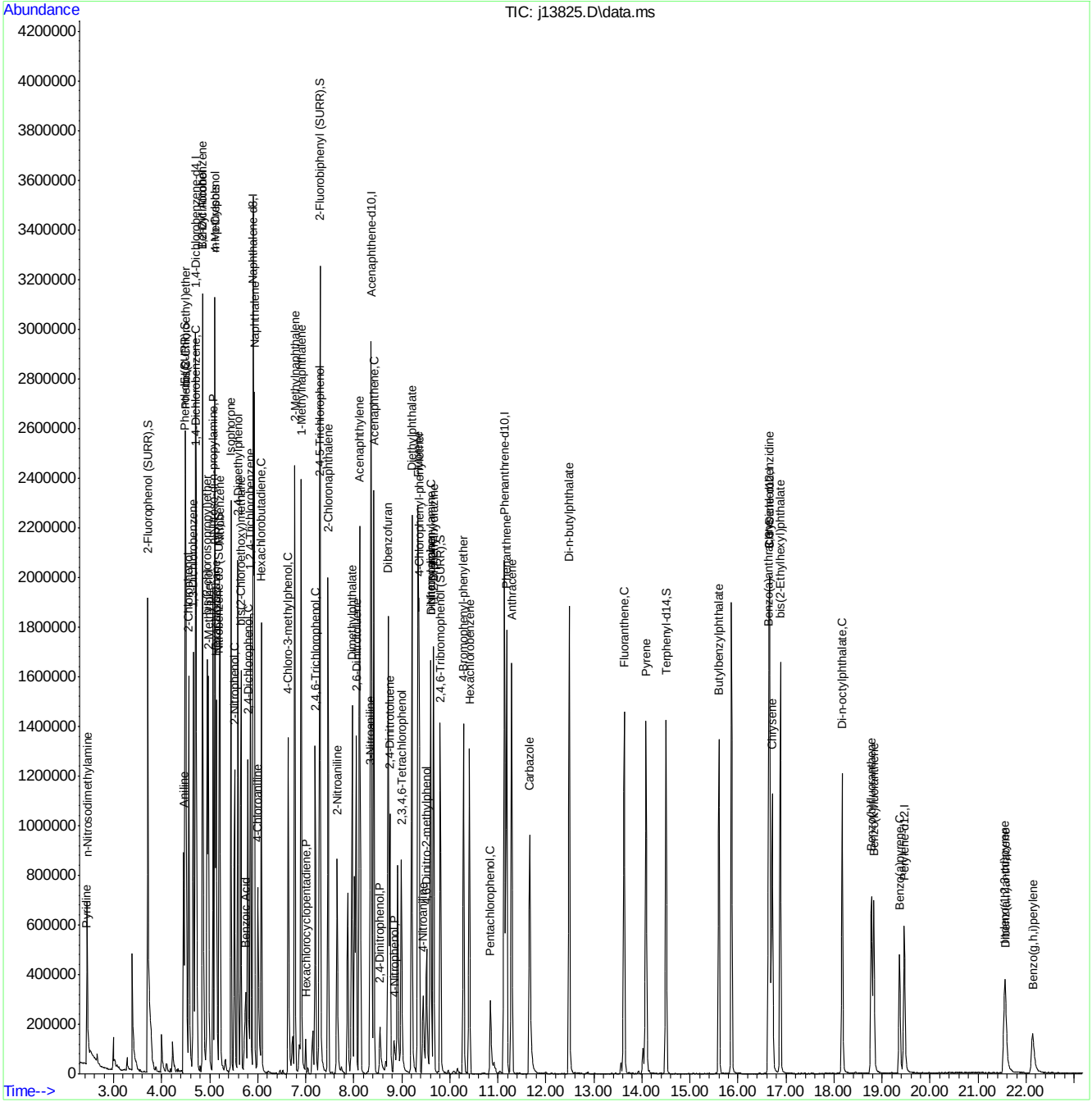
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.635	107	385990	29.83 ug/ml	98
34) 2-Methylnaphthalene	6.774	142	851925	30.78 ug/ml	99
35) 1-Methylnaphthalene	6.908	142	836496	28.86 ug/ml	99
37) Hexachlorocyclopentadiene	7.004	237	21487	10.90 ug/ml	95
38) 2,4,6-Trichlorophenol	7.202	196	227216	29.26 ug/ml	100
39) 2,4,5-Trichlorophenol	7.288	196	233538	26.96 ug/ml	99
41) 2-Chloronaphthalene	7.464	162	749025	28.80 ug/ml	99
42) 2-Nitroaniline	7.657	65	262431	30.02 ug/ml	97
43) Dimethylphthalate	7.967	163	964739	30.87 ug/ml	100
44) Acenaphthylene	8.122	152	1311073	29.75 ug/ml	100
45) 2,6-Dinitrotoluene	8.053	165	211172	28.72 ug/ml	92
46) 3-Nitroaniline	8.341	138	161241	25.08 ug/ml	90
47) Acenaphthene	8.416	154	765631	29.57 ug/ml	99
48) 2,4-Dinitrophenol	8.545	184	54116	27.99 ug/ml	93
49) 4-Nitrophenol	8.839	65	59459	16.19 ug/ml#	81
50) Dibenzofuran	8.721	168	1090247	29.47 ug/ml	98
51) 2,4-Dinitrotoluene	8.753	165	260369	29.56 ug/ml	95
52) 2,3,4,6-Tetrachlorophenol	8.994	232	173540	26.55 ug/ml	99
53) Diethylphthalate	9.213	149	1217241	37.54 ug/ml	99
54) Fluorene	9.336	166	917549	28.46 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.363	204	433936	27.27 ug/ml	98
56) 4-Nitroaniline	9.443	138	123641m	23.49 ug/ml	
58) 1,2-Diphenylhydrazine	9.662	77	1038372	31.70 ug/ml	98
59) 4,6-Dinitro-2-methylph...	9.518	198	104823	27.96 ug/ml	99
60) Diphenylamine	9.604	169	627792	26.04 ug/ml	100
61) n-Nitrosodiphenylamine	9.604	169	627792	26.04 ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	239460	29.45 ug/ml	98
64) Hexachlorobenzene	10.406	284	268948	30.35 ug/ml	97
65) Pentachlorophenol	10.845	266	72608	29.39 ug/ml	97
66) Phenanthrene	11.187	178	1162452	30.29 ug/ml	100
67) Anthracene	11.288	178	1123213	30.39 ug/ml	100
68) Carbazole	11.663	167	868725	29.20 ug/ml	100
69) Di-n-butylphthalate	12.487	149	1464855	31.78 ug/ml	99
70) Fluoranthene	13.631	202	1114661	32.03 ug/ml	99
73) Pyrene	14.086	202	1081882	32.62 ug/ml	99
75) Butylbenzylphthalate	15.605	149	492812	33.37 ug/ml	97
76) Benzo(a)anthracene	16.642	228	850445	32.12 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.659	252	57521	8.86 ug/ml	95
78) Chrysene	16.712	228	751520	33.67 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.883	149	657876	33.15 ug/ml	97
81) Di-n-octylphthalate	18.172	149	916563	36.26 ug/ml#	100
82) Benzo(b)fluoranthene	18.777	252	540504	32.62 ug/ml	98
83) Benzo(k)fluoranthene	18.825	252	564558	37.30 ug/ml	99
84) Benzo(a)pyrene	19.365	252	423601	29.94 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.547	276	376979	31.60 ug/ml	97
86) Dibenz(a,h)anthracene	21.574	278	307754	31.08 ug/ml	97
87) Benzo(g,h,i)perylene	22.136	276	283549	31.47 ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13825.D
Acq On : 14 Oct 2009 7:35 pm
Operator : sheilac
Sample : op13250-msd
Misc : op13250,Ej634,500,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

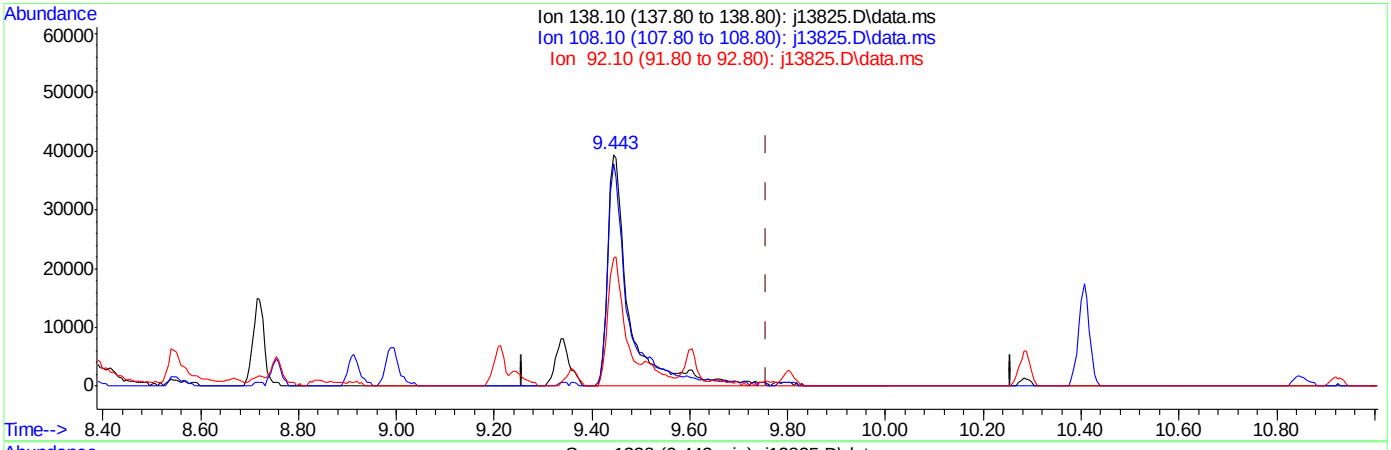
Quant Time: Oct 16 14:44:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

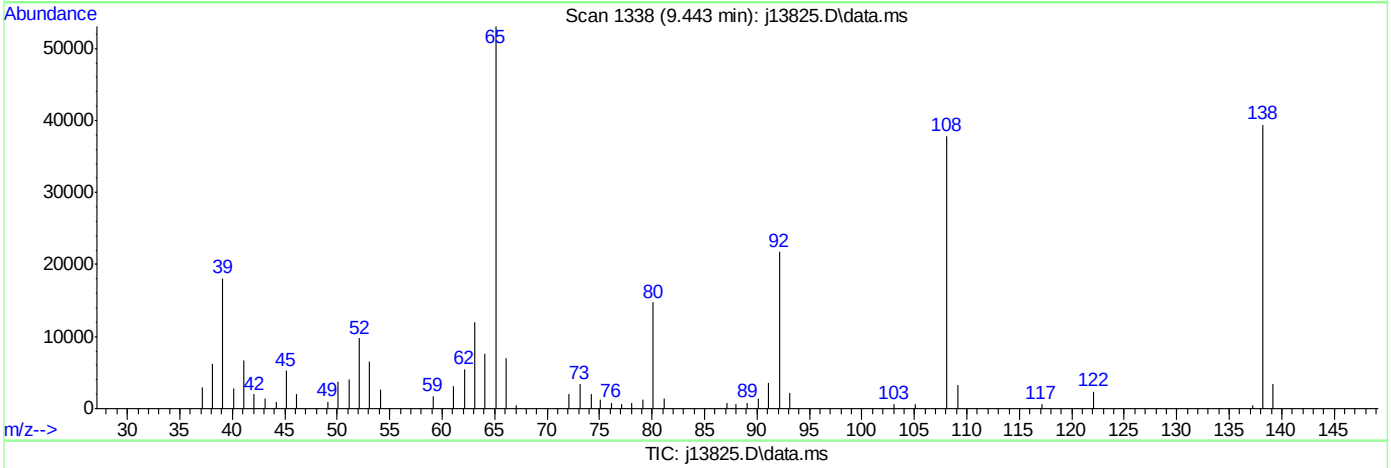


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13825.D
Acq On    : 14 Oct 2009   7:35 pm
Operator  : sheilac
Sample    : op13250-msd
Misc      : op13250,Ej634,500,,,1,1,water
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Oct 16 14:44:02 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration
```





TIC: j13825.D\data.ms

(56) 4-Nitroaniline

9.443min (-0.314) 23.49ug/ml m

response 123641

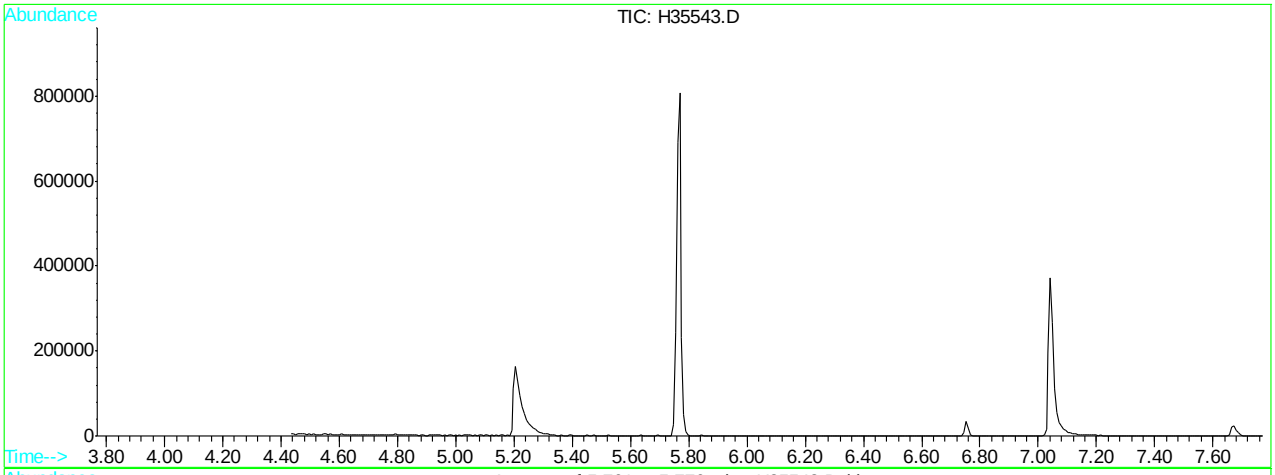
Ion	Exp%	Act%
138.10	100	100
108.10	87.60	84.62
92.10	53.80	43.44
0.00	0.00	0.00

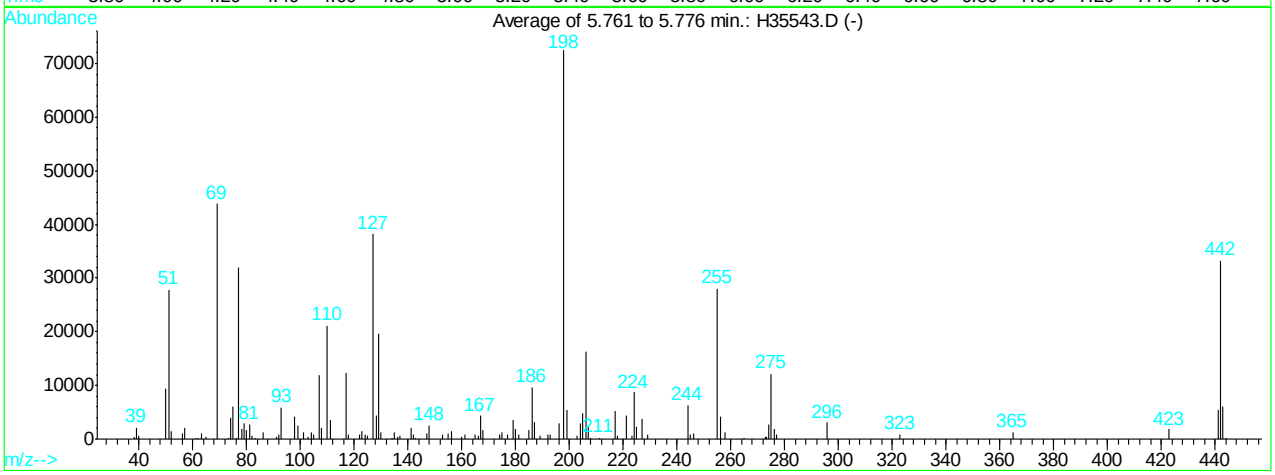
8.4.2.1

8

DFTPP

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S





AutoFind: Scans 180, 181, 182; Background Corrected with Scan 175

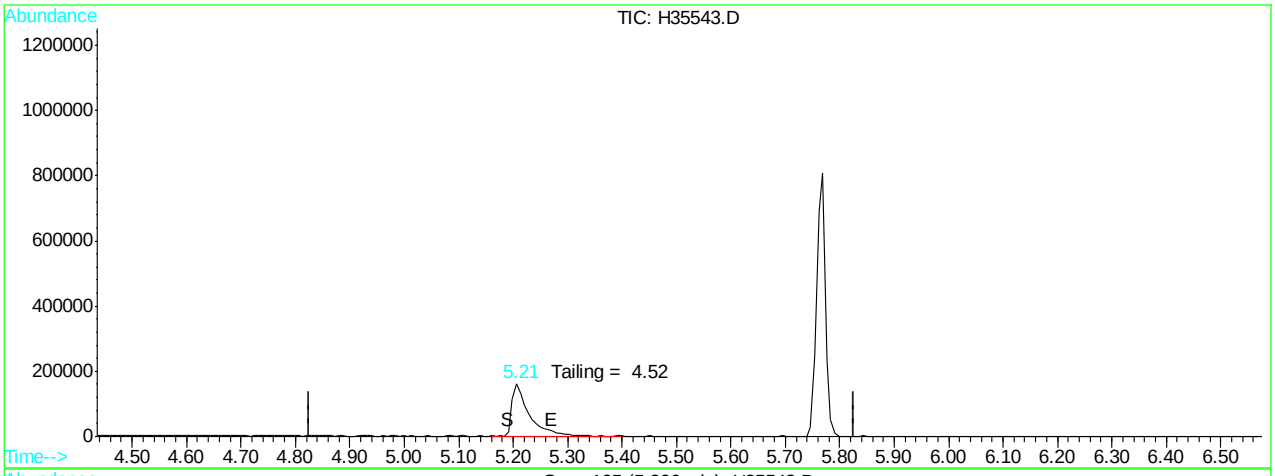
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.5	27870	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	60.5	43827	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.7	38197	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	72445	PASS
199	198	5	9	7.5	5433	PASS
275	198	10	30	16.9	12215	PASS
365	198	1	100	1.8	1283	PASS
441	443	0.01	100	88.3	5444	PASS
442	198	40	100	45.9	33280	PASS
443	442	17	23	18.5	6166	PASS

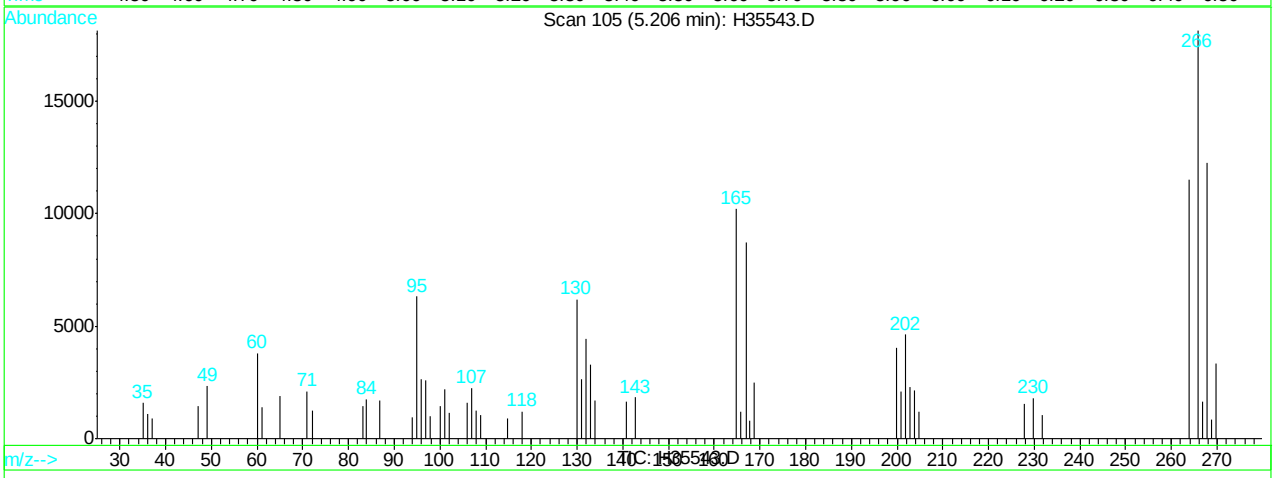
H35543.D DFTPP.M Thu Oct 22 11:06:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

response 350312

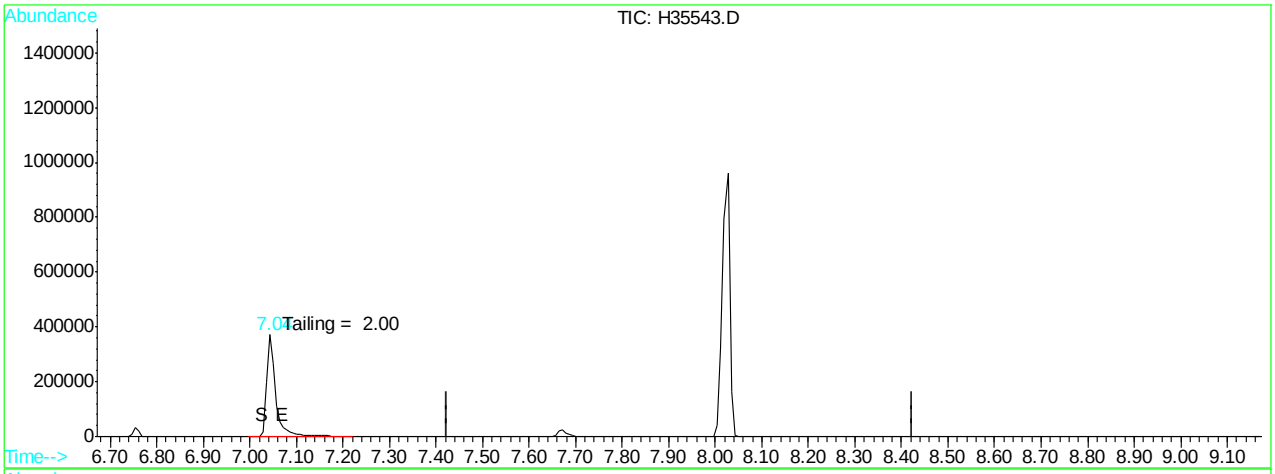
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

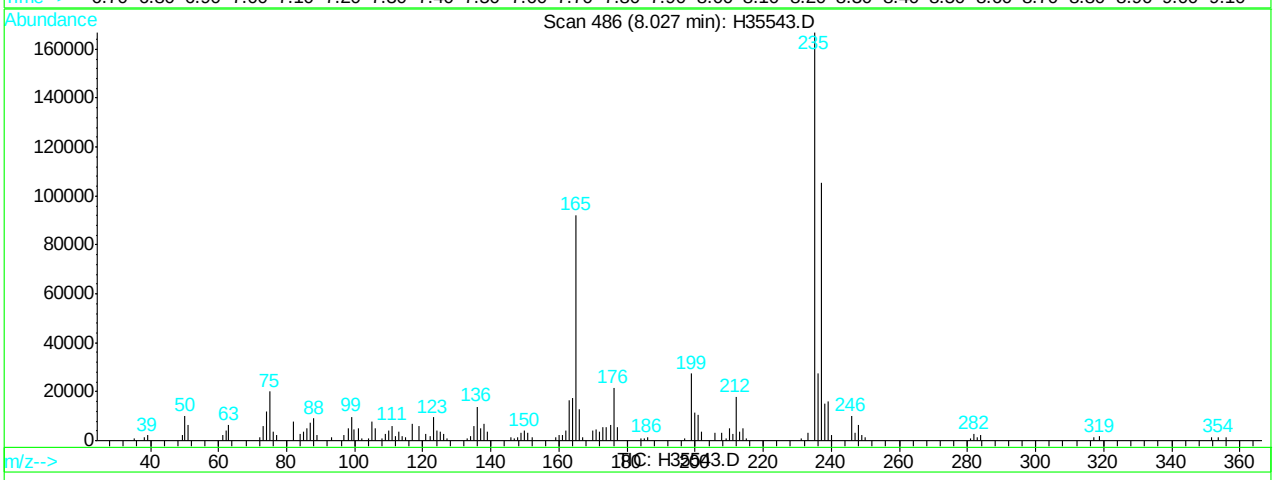
H35543.D DFTPP.M Thu Oct 22 11:06:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(3) Benzidine

8.03min 0.00

response 1016552

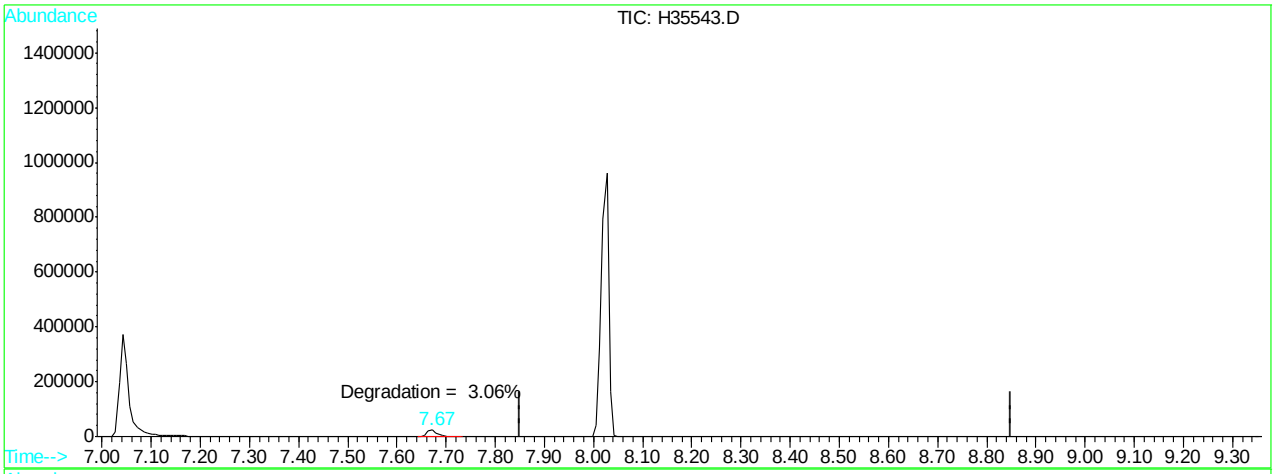
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

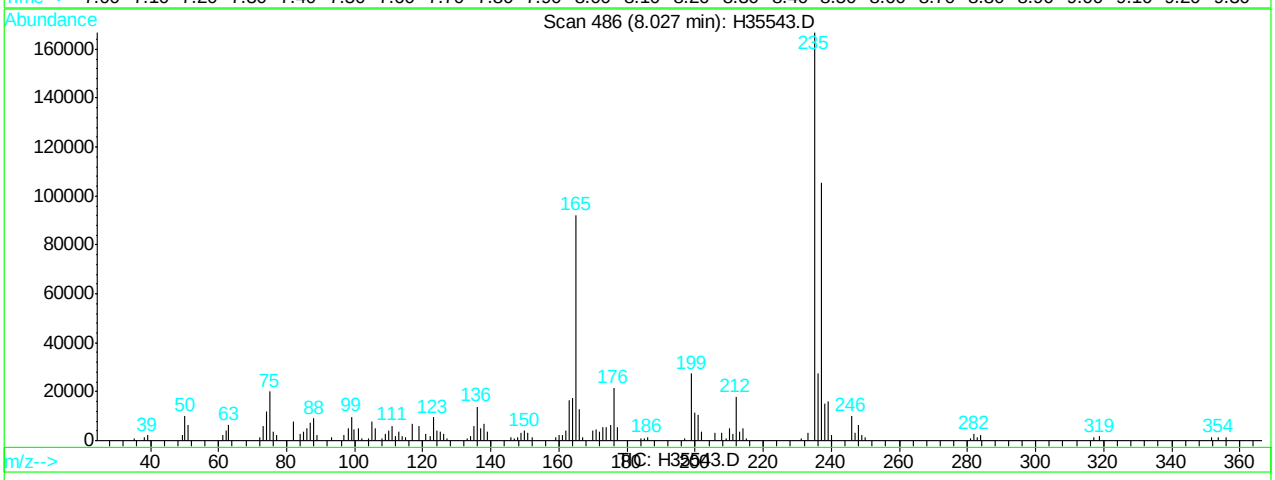
H35543.D DFTPP.M Thu Oct 22 11:06:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.03min 0.00

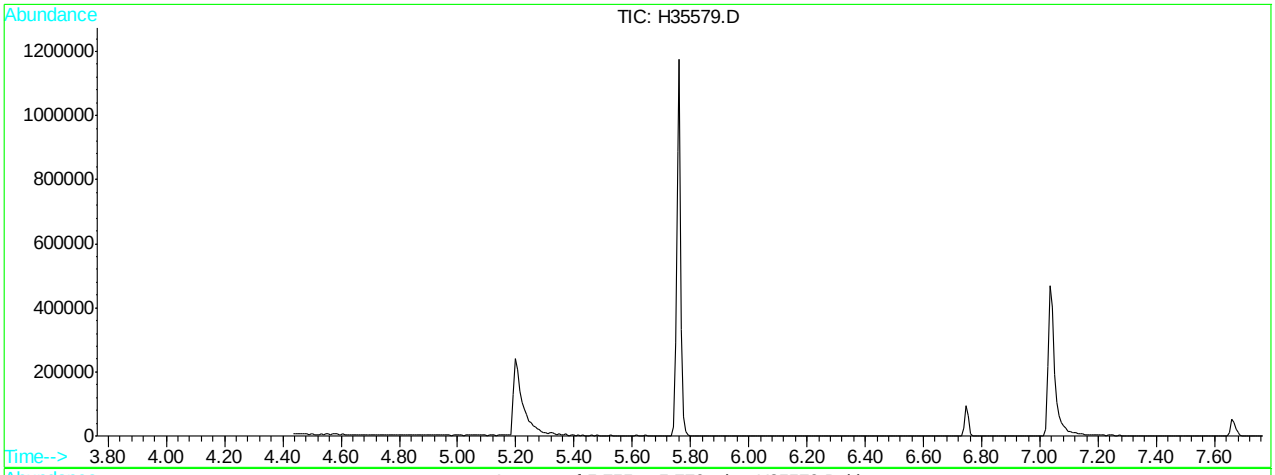
response 1016552

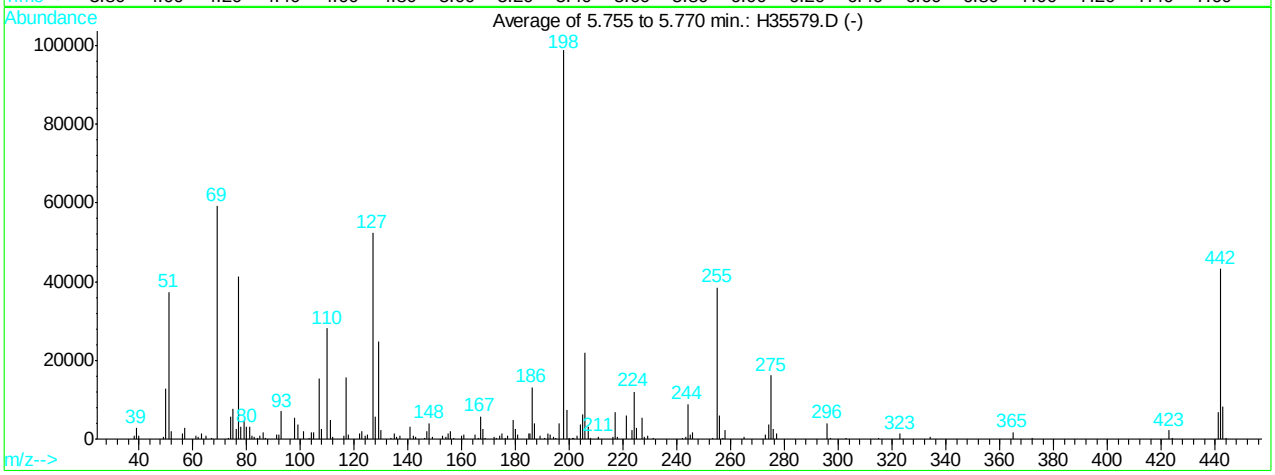
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H35543.D DFTPP.M Thu Oct 22 11:07:01 2009

DFTPP

```
Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D            Vial: 1
Acq On    : 23 Oct 2009  10:52 am                   Operator: sheilac
Sample    : dftpp                                   Inst    : TXMSH
Misc      : OP12779,EH1920,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : 8270 BNA TUNING STD'S
```





AutoFind: Scans 179, 180, 181; Background Corrected with Scan 174

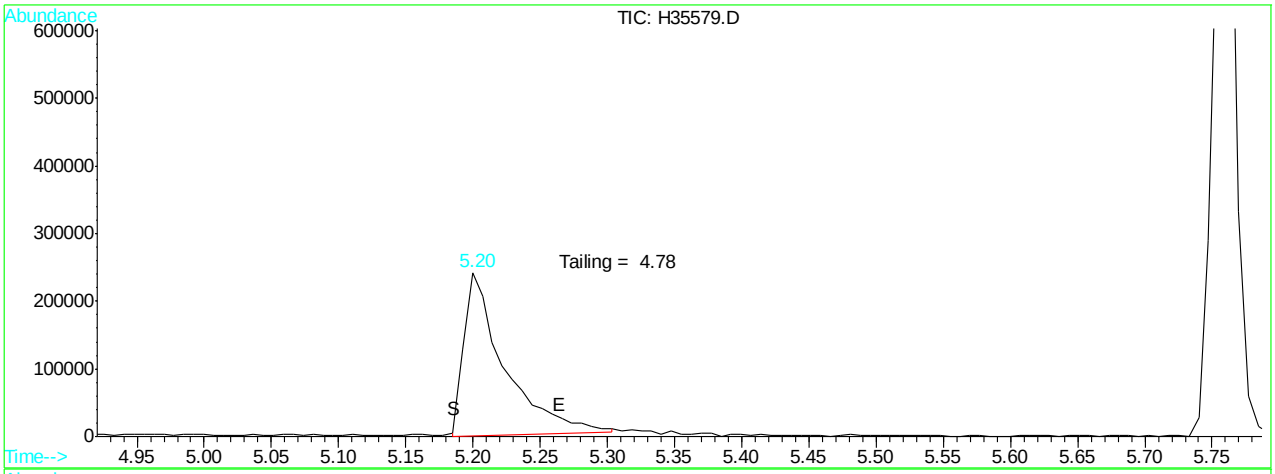
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	37381	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.9	59141	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.0	52288	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	98720	PASS
199	198	5	9	7.6	7541	PASS
275	198	10	30	16.4	16213	PASS
365	198	1	100	1.8	1790	PASS
441	443	0.01	100	80.6	6753	PASS
442	198	40	100	43.7	43176	PASS
443	442	17	23	19.4	8380	PASS

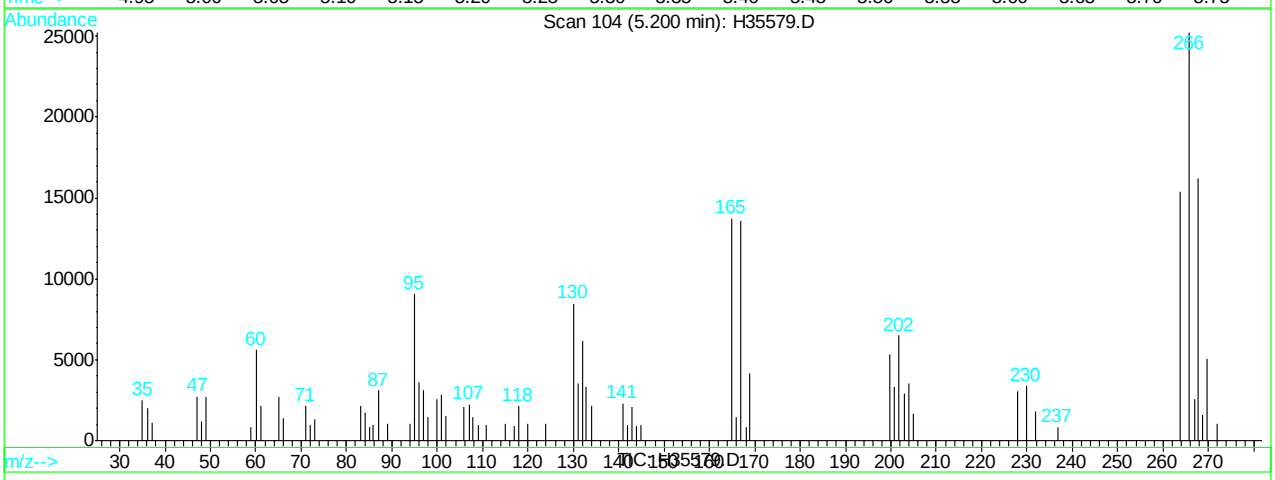
H35579.D DFTPP.M Fri Oct 23 16:43:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.20min 0.00 m

response 513355

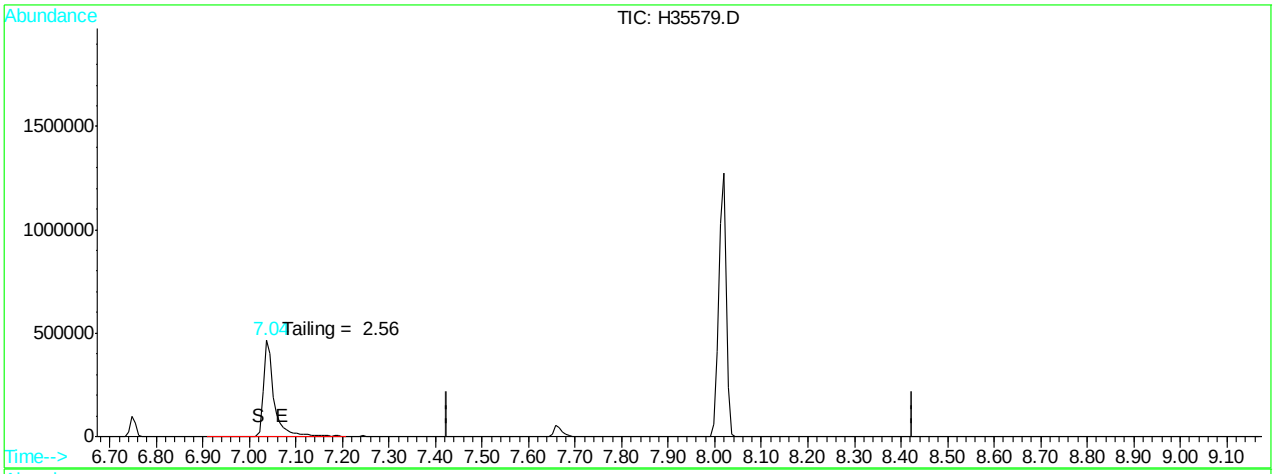
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

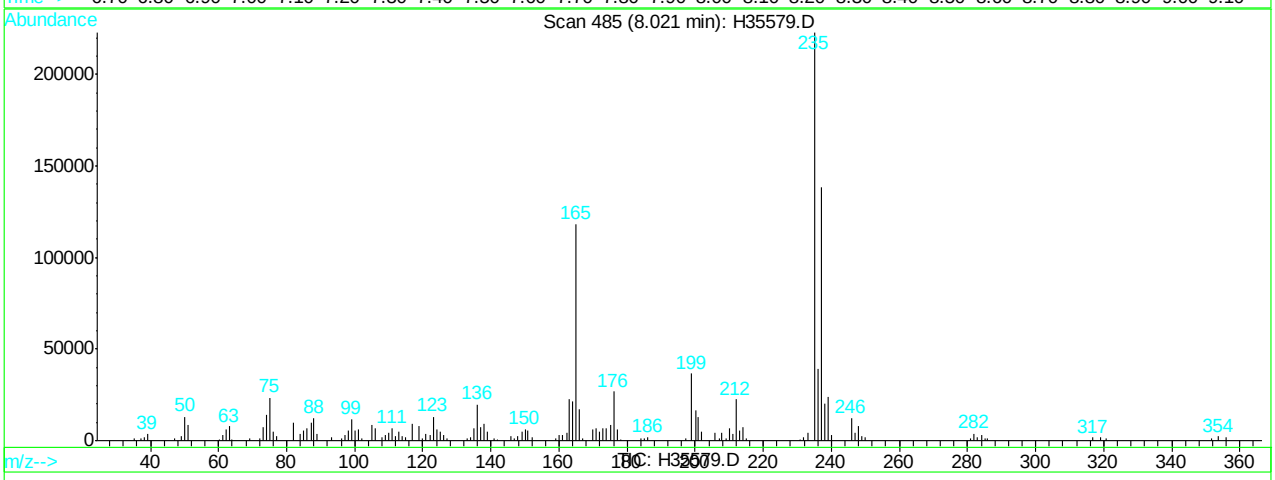
H35579.D DFTPP.M Fri Oct 23 16:44:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(3) Benzidine

8.02min 0.00

response 1344226

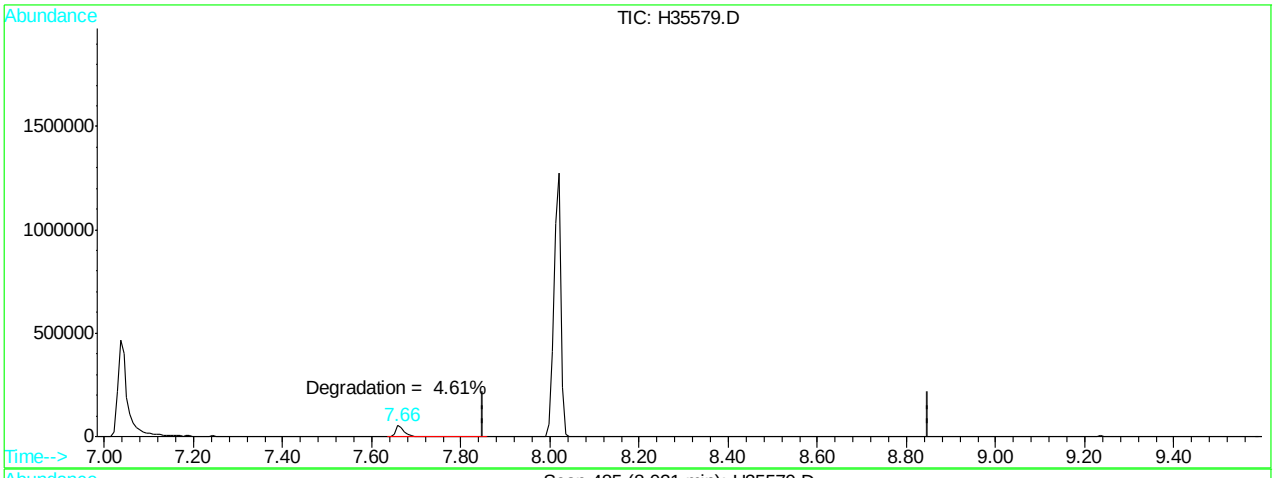
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

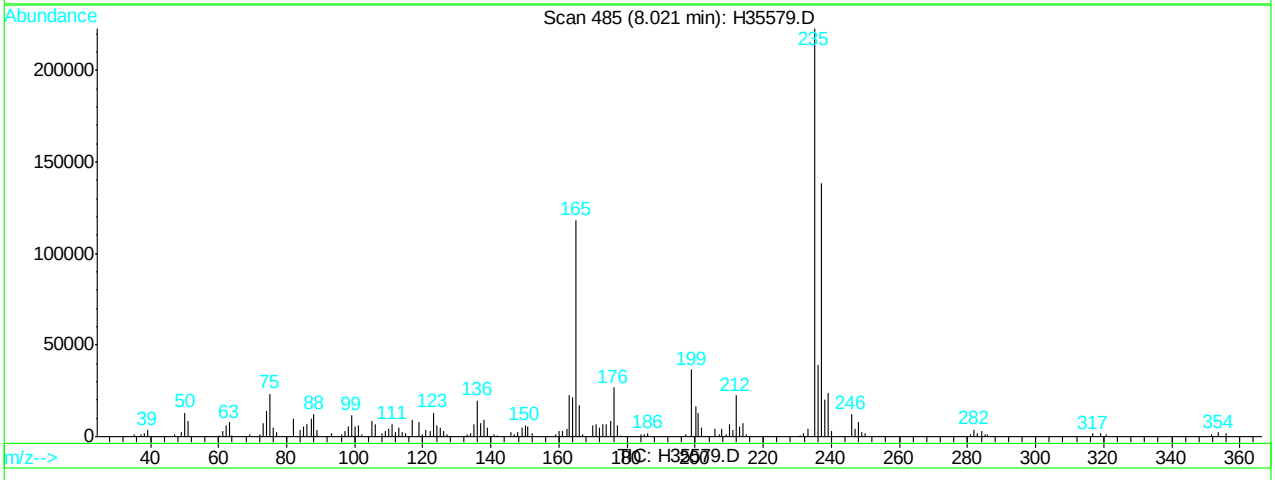
H35579.D DFTPP.M Fri Oct 23 16:44:26 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35579.D Vial: 1
Acq On : 23 Oct 2009 10:52 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 23 16:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.02min 0.00

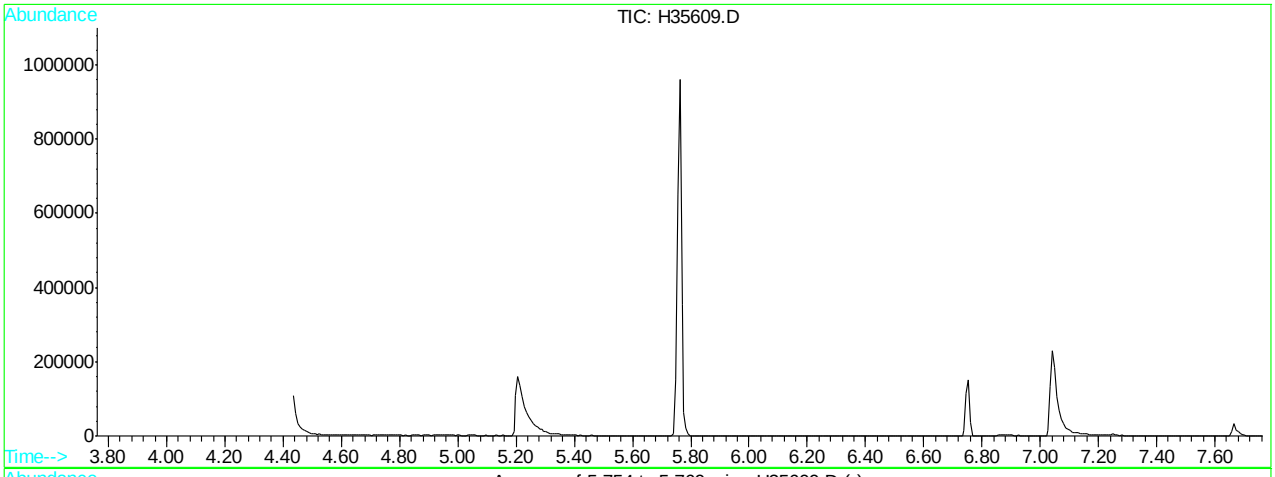
response 1344226

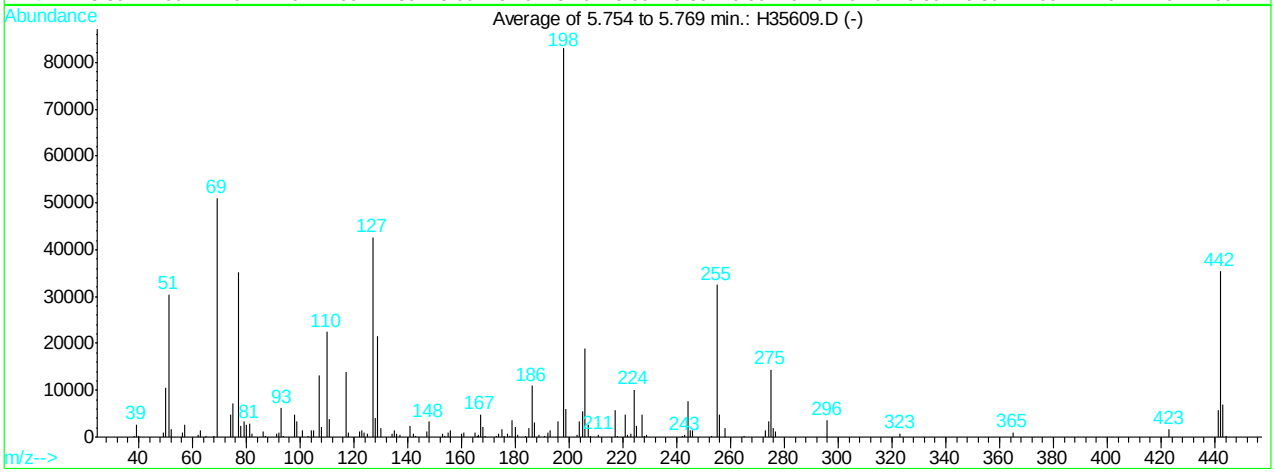
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H35579.D DFTPP.M Fri Oct 23 16:44:35 2009

DFTPP

Data File : C:\HPCHEM\1\DATA\EH1921\H35609.D Vial: 1
Acq On : 26 Oct 2009 11:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S





AutoFind: Scans 179, 180, 181; Background Corrected with Scan 174

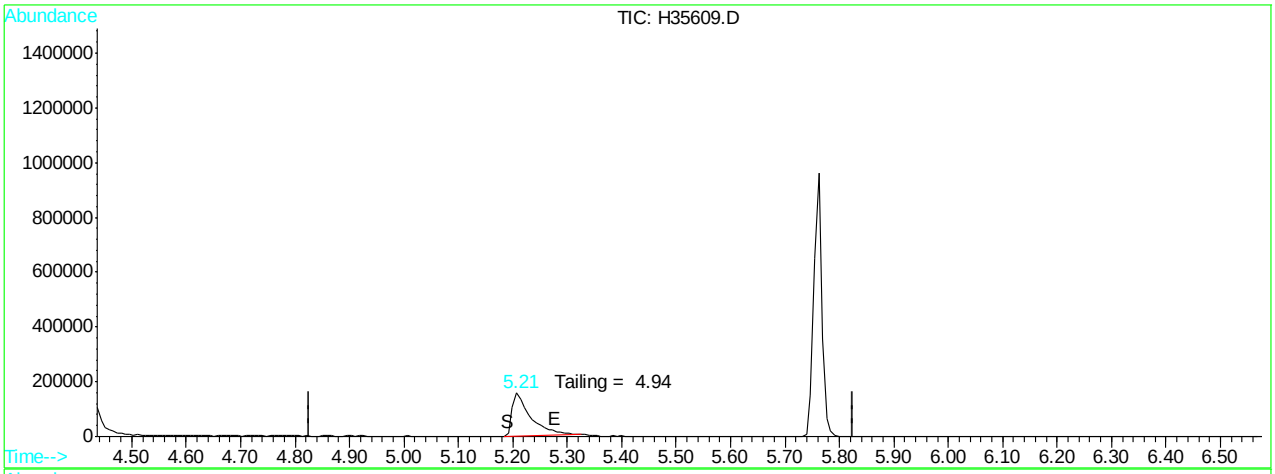
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.8	30518	PASS
68	69	0.00	2	0.7	335	PASS
69	198	0.00	100	61.5	51037	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.5	42709	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	82971	PASS
199	198	5	9	7.2	5941	PASS
275	198	10	30	17.3	14393	PASS
365	198	1	100	1.3	1044	PASS
441	443	0.01	100	83.4	5735	PASS
442	198	40	100	42.8	35488	PASS
443	442	17	23	19.4	6877	PASS

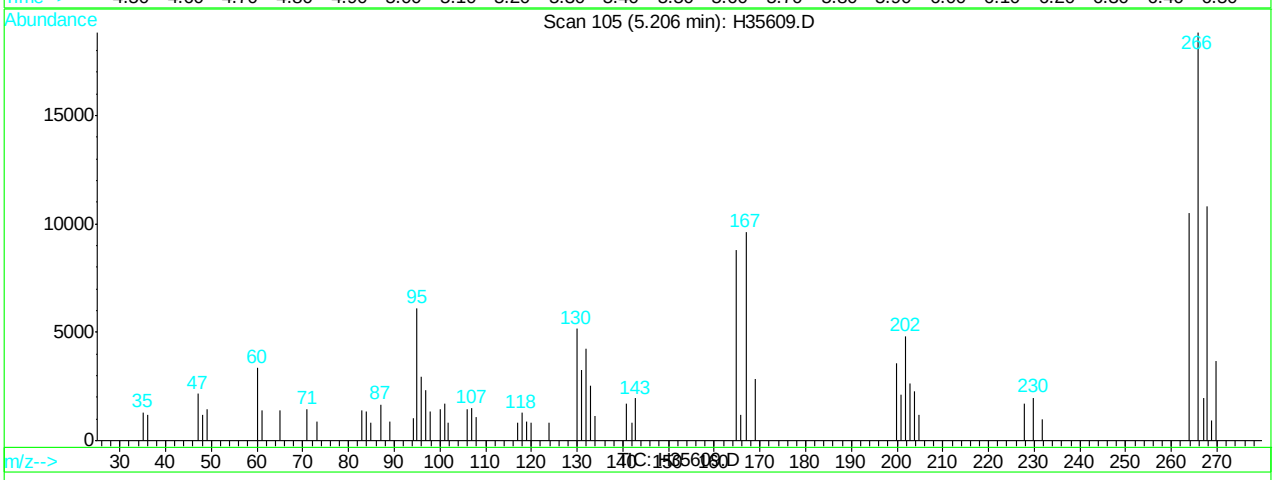
H35609.D DFTPP.M Mon Oct 26 11:59:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35609.D Vial: 1
Acq On : 26 Oct 2009 11:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 11:58 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

response 422979

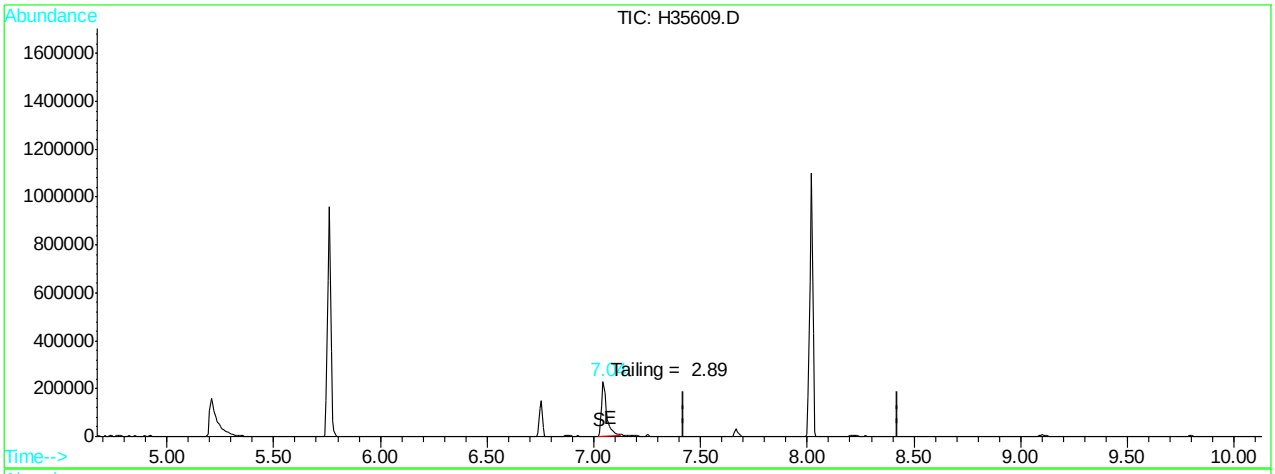
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H35609.D DFTPP.M Mon Oct 26 12:00:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35609.D Vial: 1
Acq On : 26 Oct 2009 11:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 11:58 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration



(3) Benzidine

8.02min 0.00

response 1056070

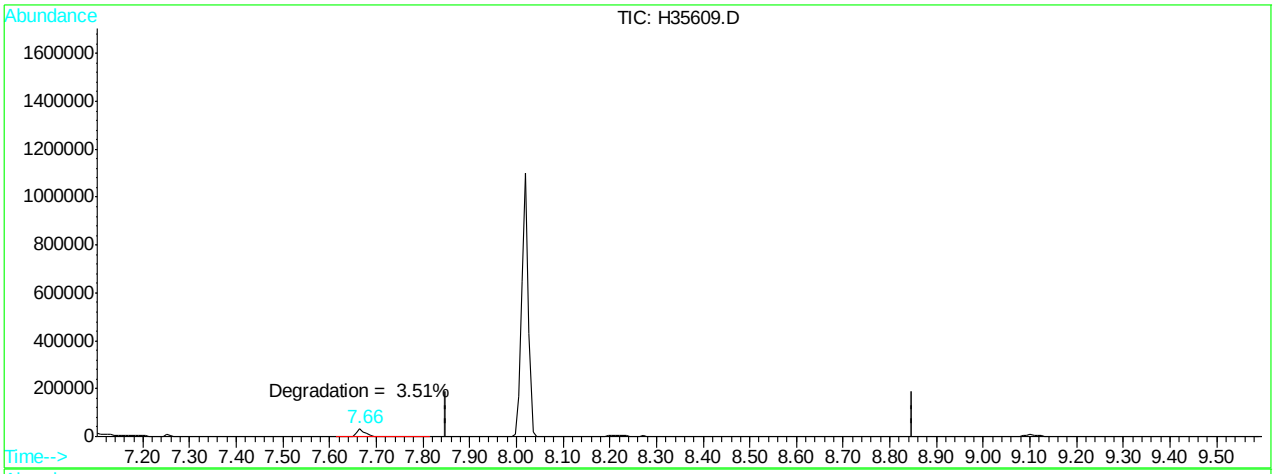
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

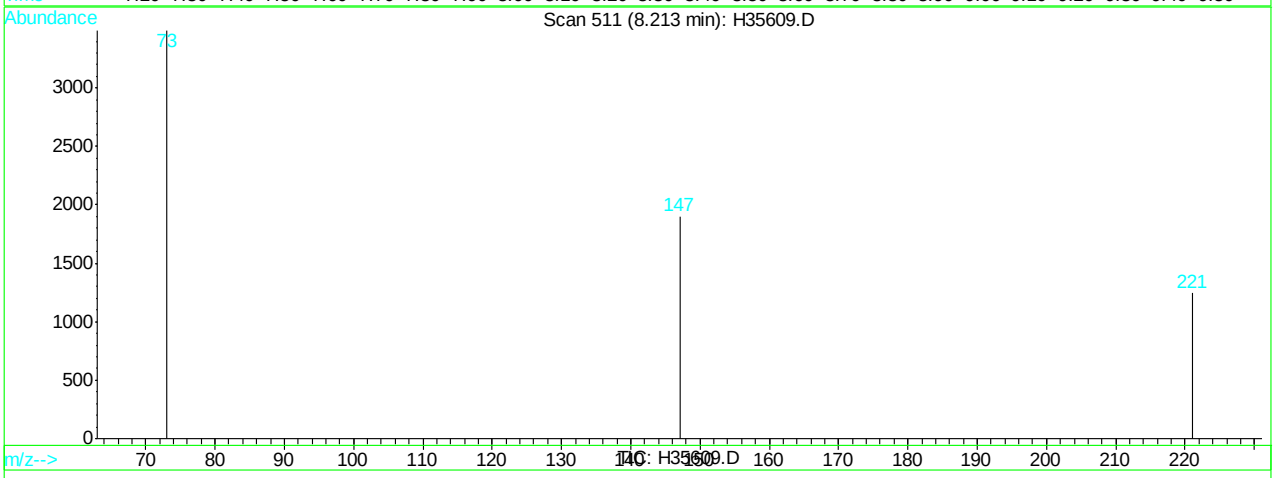
H35609.D DFTPP.M Mon Oct 26 12:01:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35609.D Vial: 1
Acq On : 26 Oct 2009 11:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 11:58 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.21min 0.00

response 14968

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

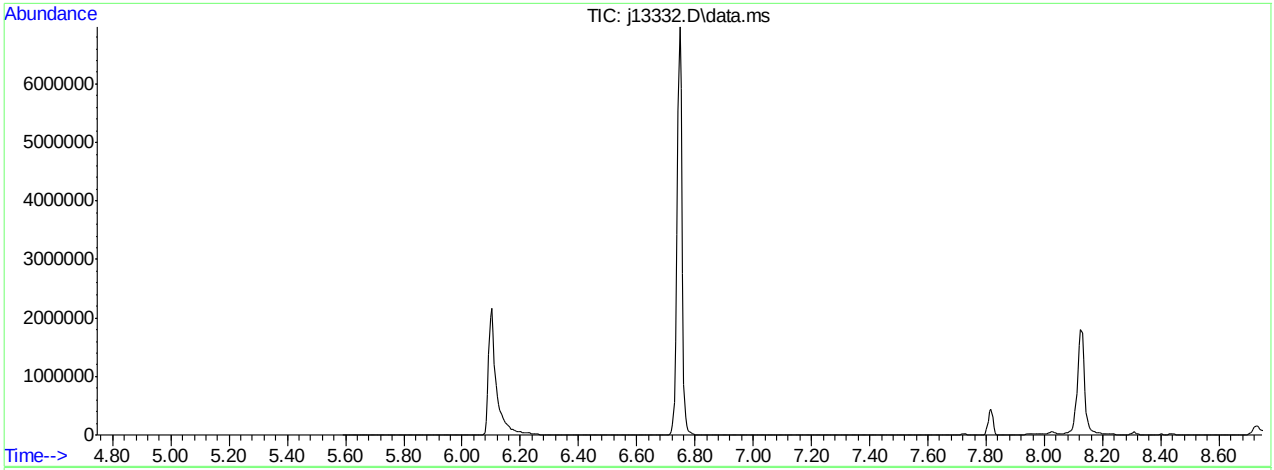
H35609.D DFTPP.M Mon Oct 26 12:01:47 2009

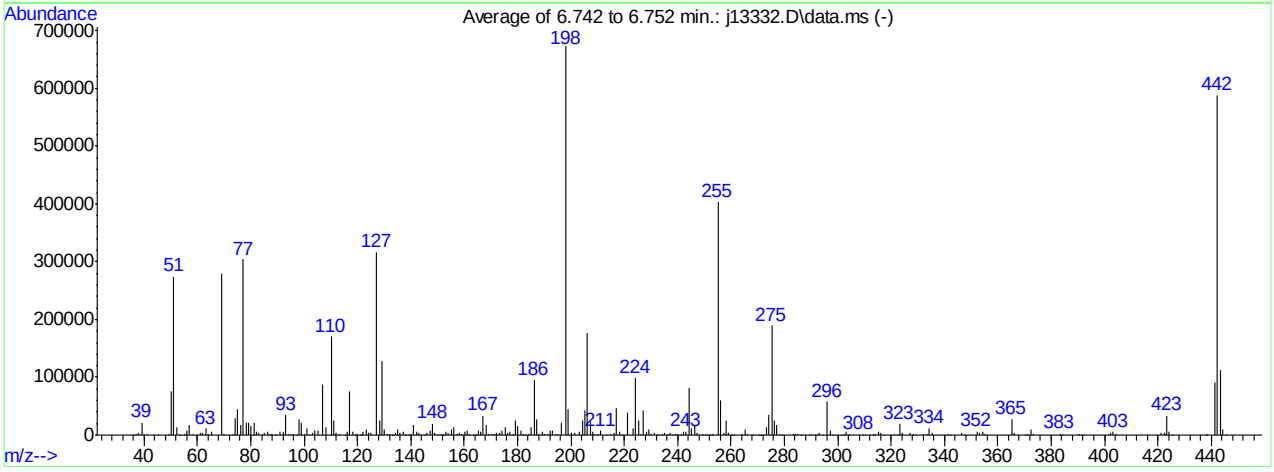
DFTPP

Data File : C:\msdchem\1\DATA\ej615\j13332.D
Acq On : 23 Sep 2009 10:37 am
Sample : dftpp
Misc : op12949,Ej615,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 240, 241, 242; Background Corrected with Scan 230

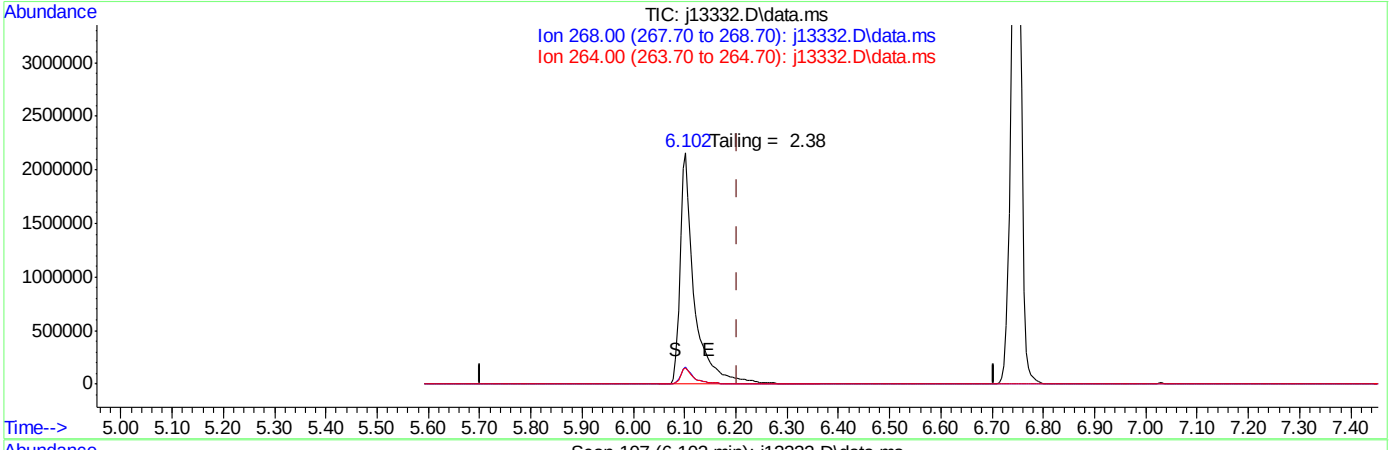
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	273877	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.5	279189	PASS
70	69	0.00	2	0.5	1498	PASS
127	198	40	60	47.0	316309	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	672661	PASS
199	198	5	9	6.7	45149	PASS
275	198	10	30	28.3	190080	PASS
365	198	1	100	4.2	27997	PASS
441	443	0.01	100	81.4	92136	PASS
442	198	40	100	87.4	588053	PASS
443	442	17	23	19.3	113253	PASS

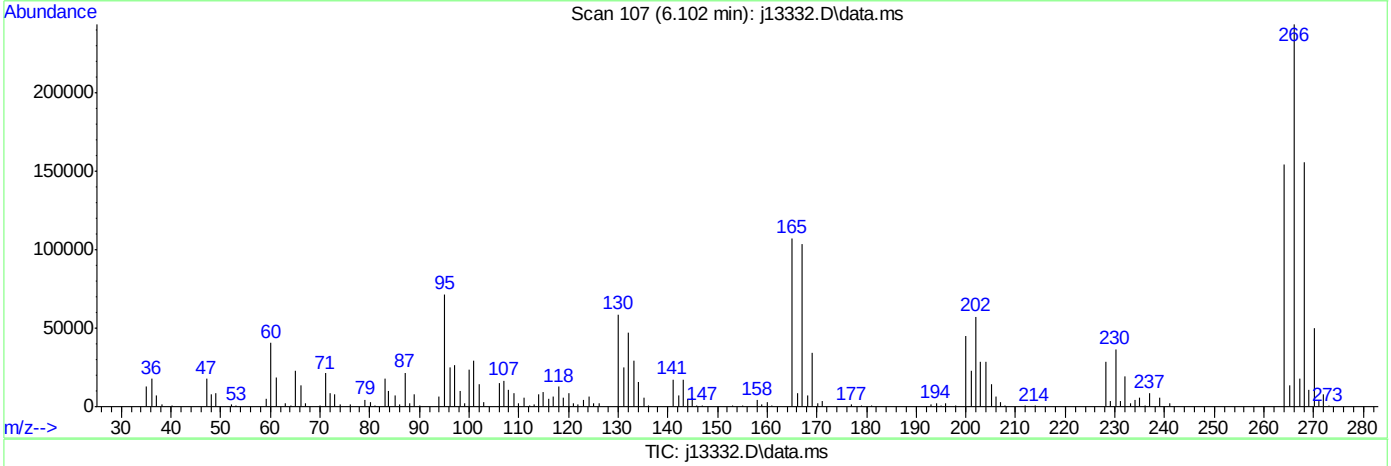
j13332.D dftpp.m Wed Sep 23 15:20:32 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(1) Pentachlorophenol

6.102min (-0.101) 0.00

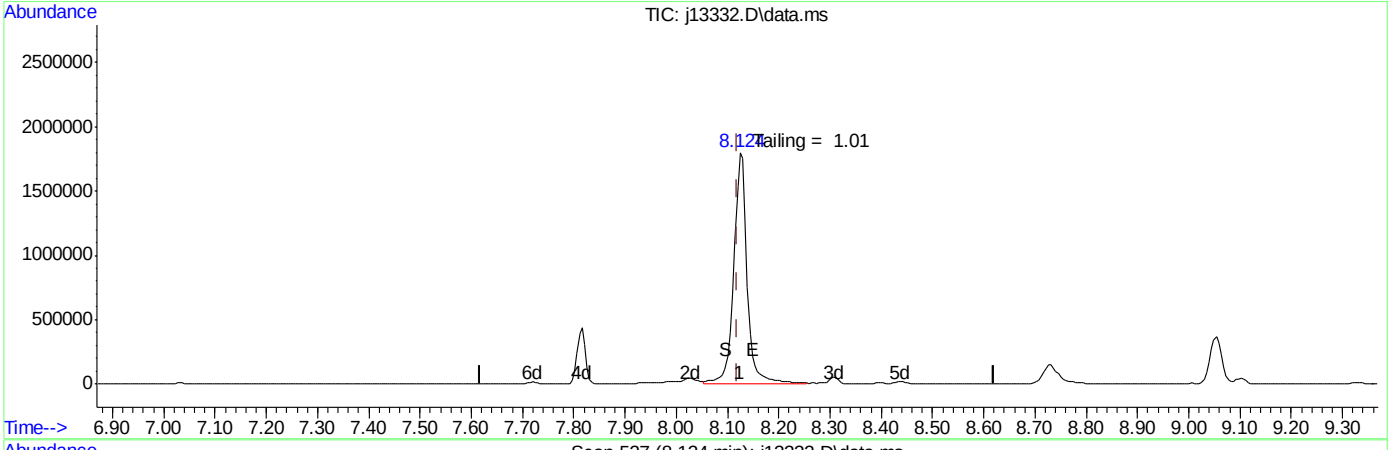
response 4154366

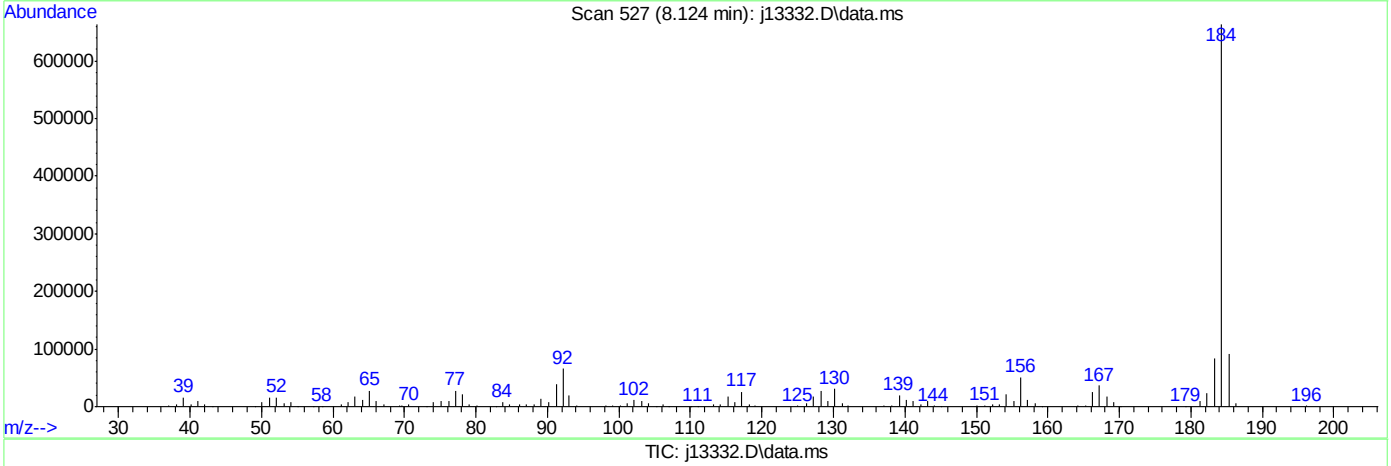
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.36#
264.00	697.70	7.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(3) Benzidine

8.124min (+0.005) 0.00

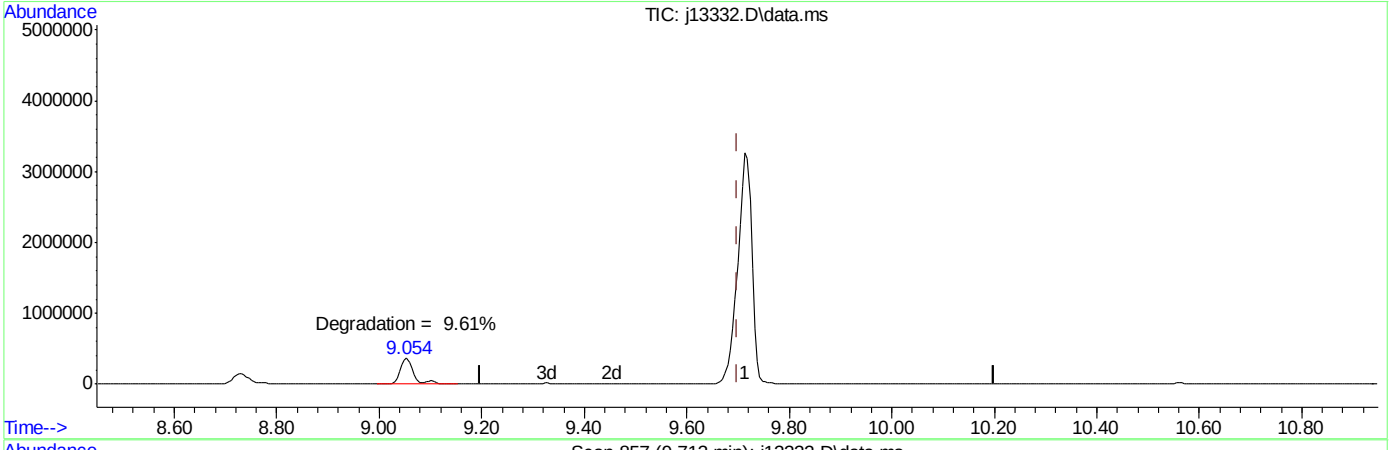
response 3263174

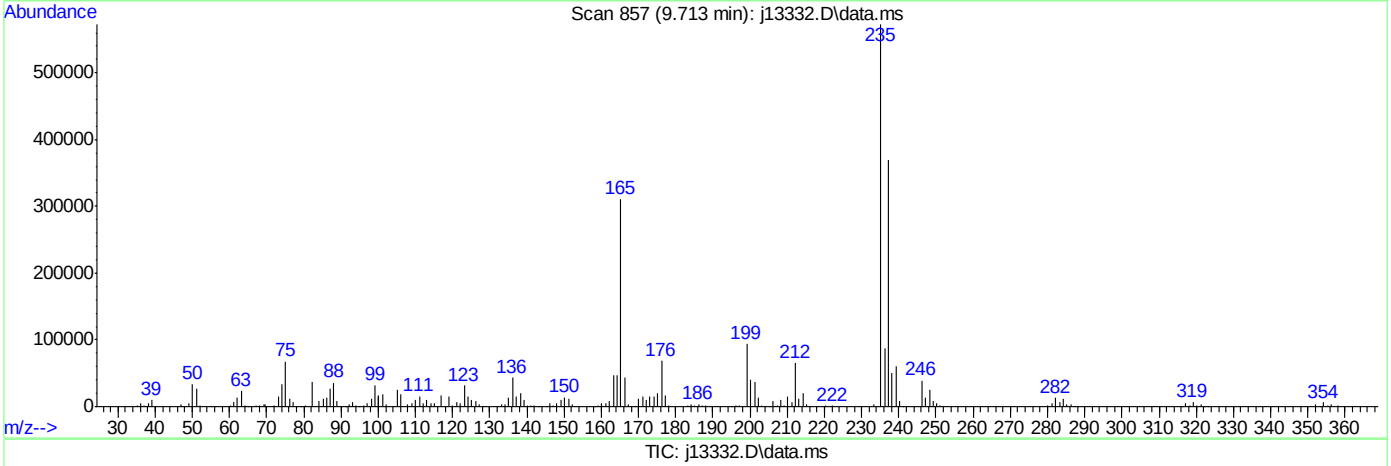
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(4) DDT

9.713min (+0.014) 0.00

response 6307525

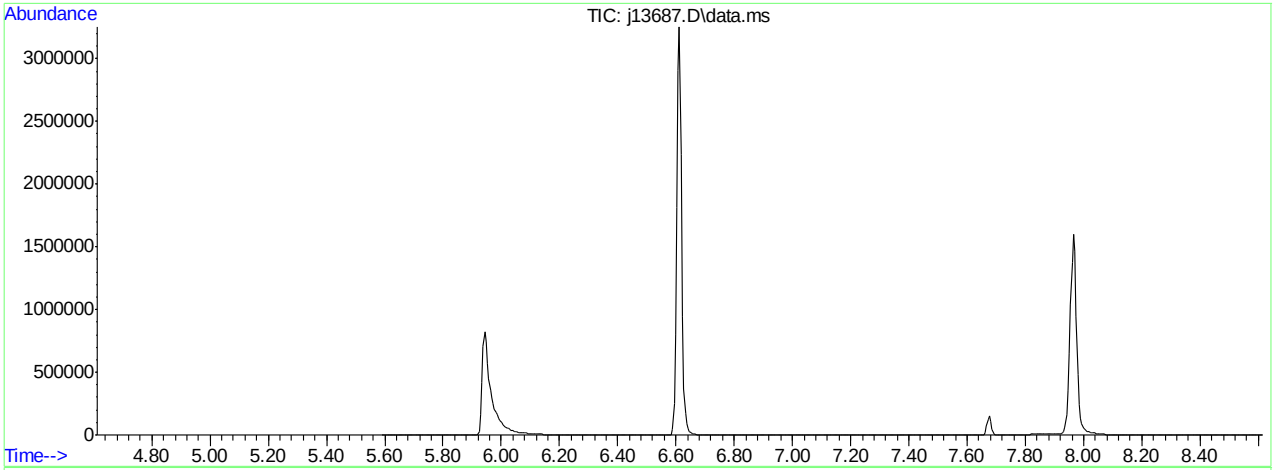
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

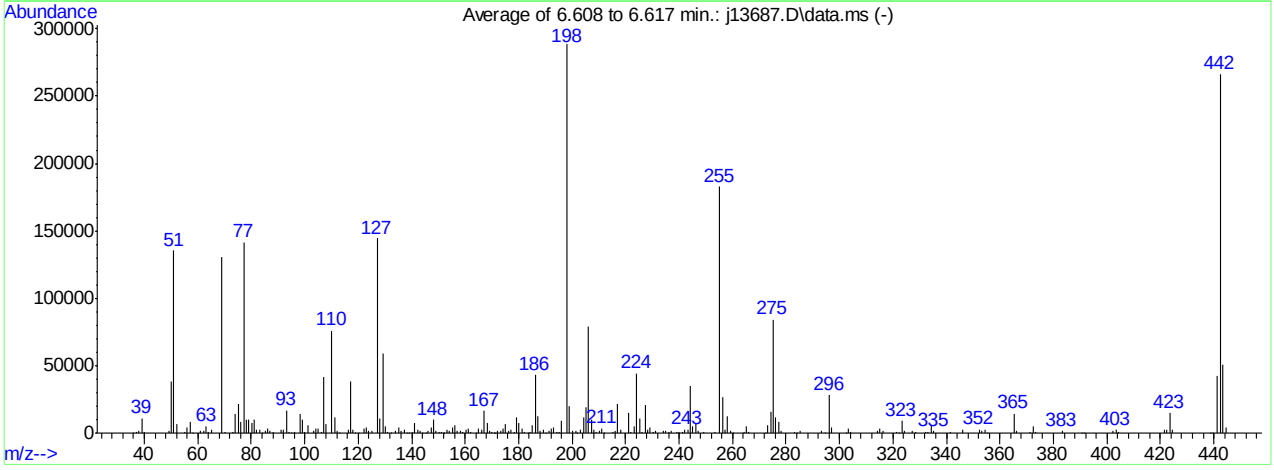
DFTPP

Data File : C:\msdchem\1\DATA\ej629\j13687.D
Acq On : 8 Oct 2009 10:34 am
Sample : dftpp
Misc : op12949,Ej629,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 212, 213, 214; Background Corrected with Scan 204

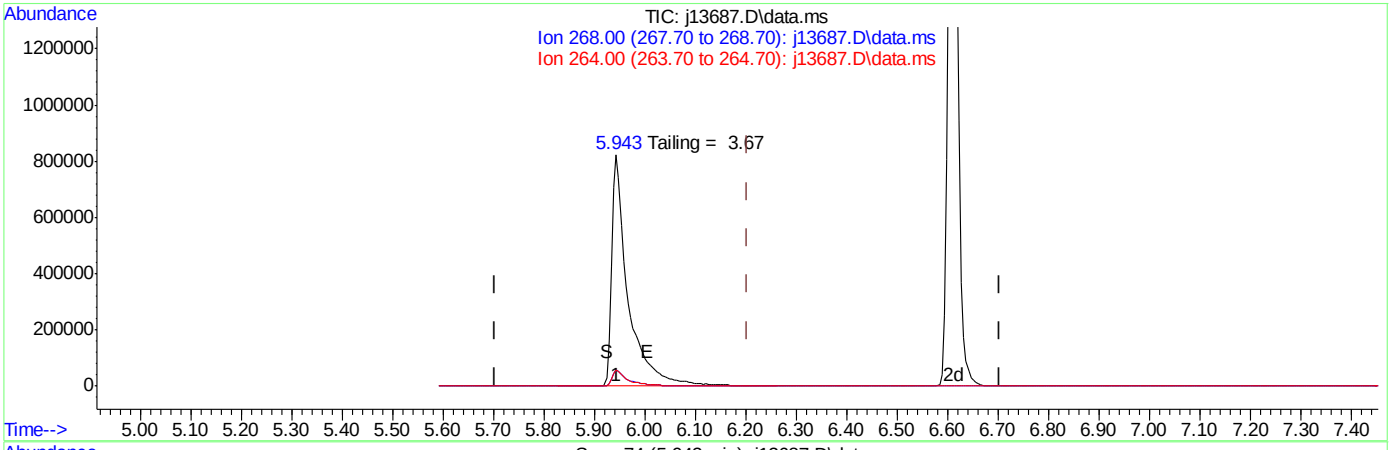
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	135432	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.2	130341	PASS
70	69	0.00	2	0.4	563	PASS
127	198	40	60	50.1	144448	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	288299	PASS
199	198	5	9	6.9	19921	PASS
275	198	10	30	29.2	84237	PASS
365	198	1	100	4.9	14155	PASS
441	443	0.01	100	83.7	42573	PASS
442	198	40	100	92.4	266517	PASS
443	442	17	23	19.1	50891	PASS

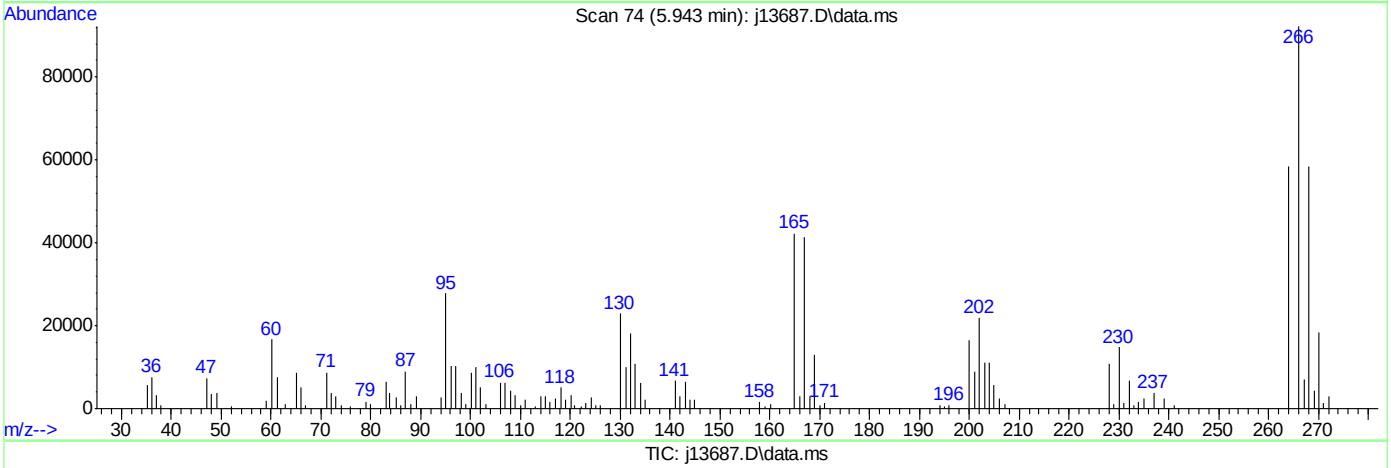
j13687.D dftpp.m Thu Oct 08 10:46:06 2009

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On : 8 Oct 2009 10:34 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration





TIC: j13687.D\data.ms

(1) Pentachlorophenol

5.943min (-0.260) 0.00

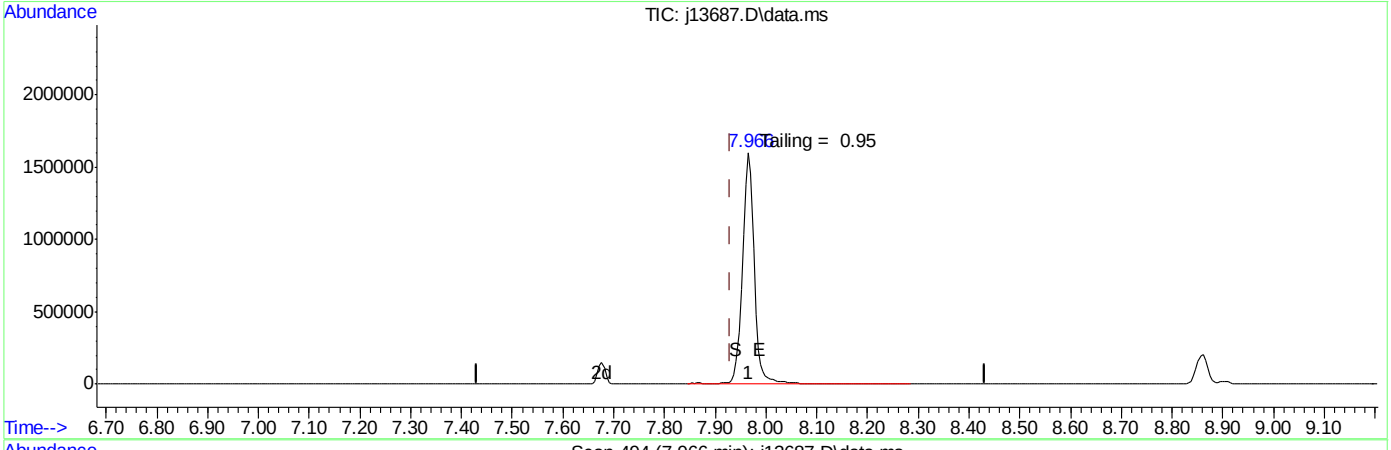
response 1866076

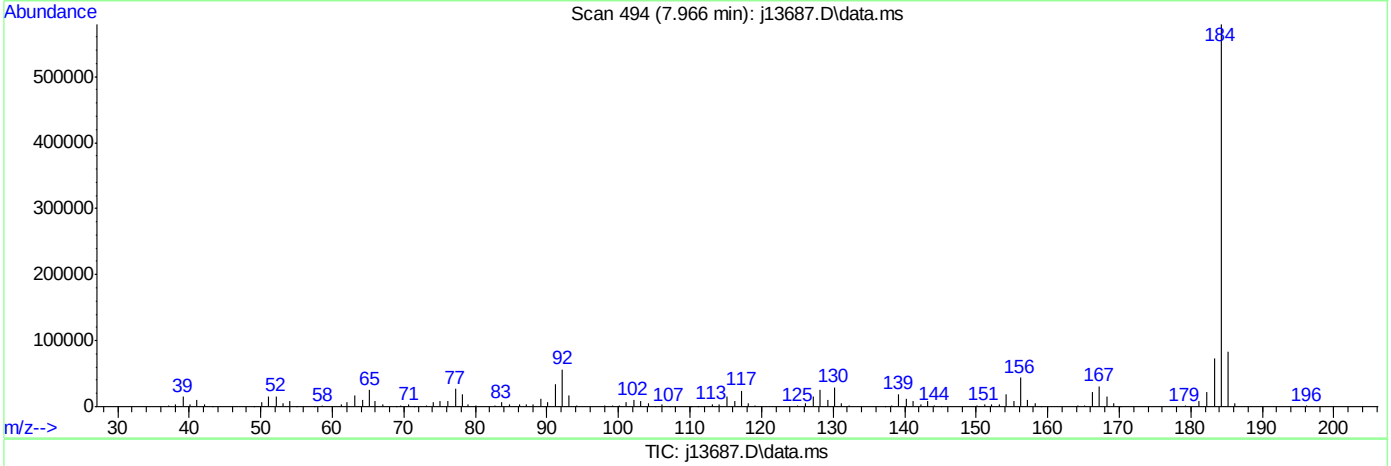
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.51#
264.00	697.70	7.44#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On : 8 Oct 2009 10:34 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration





TIC: j13687.D\data.ms

(3) Benzidine

7.966min (+0.034) 0.00

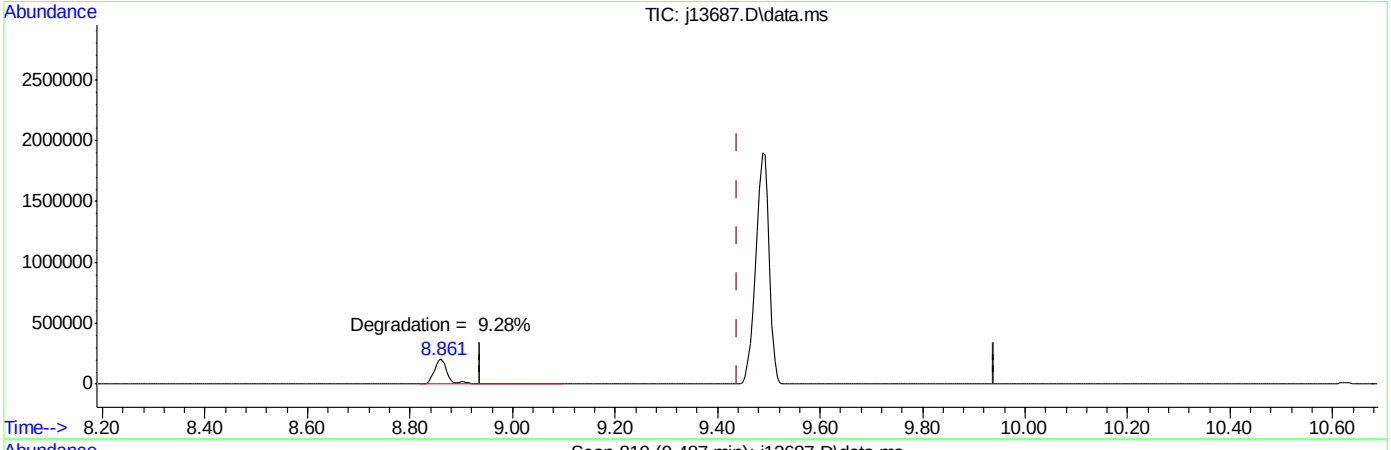
response 2598513

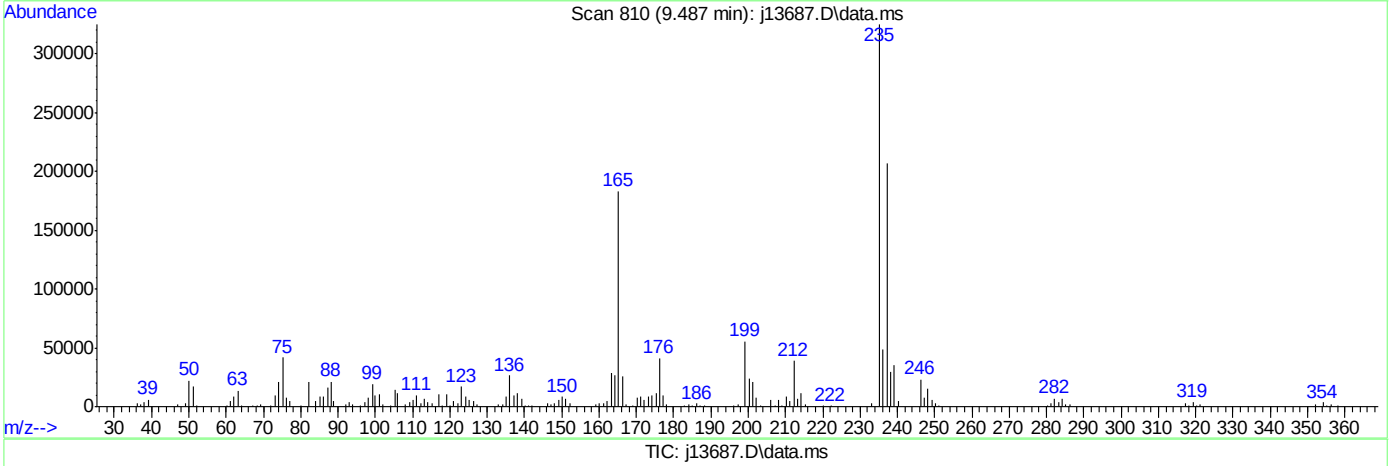
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On : 8 Oct 2009 10:34 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration





TIC: j13687.D\data.ms

(4) DDT

9.487min (+0.048) 0.00

response 3445977

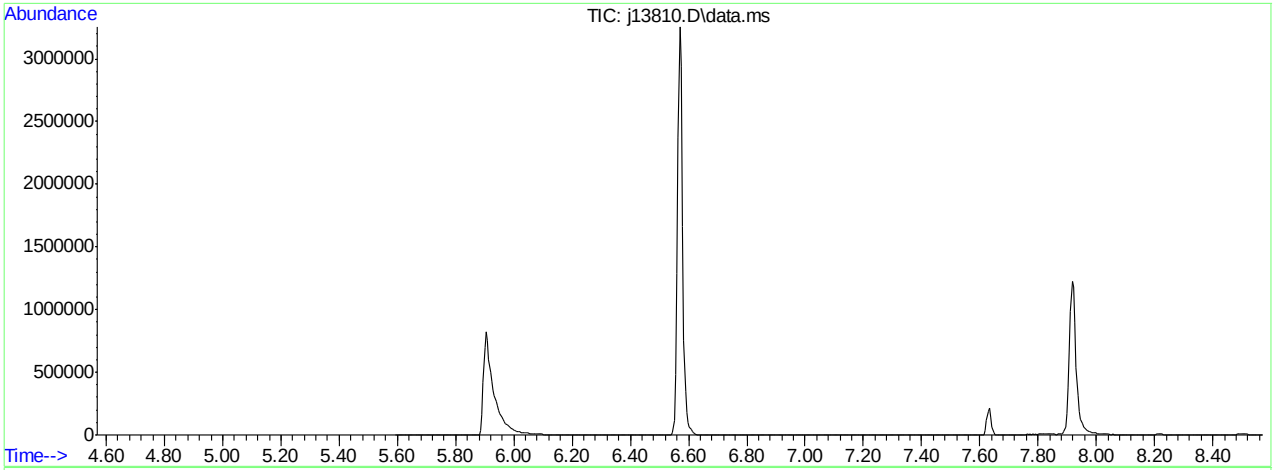
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

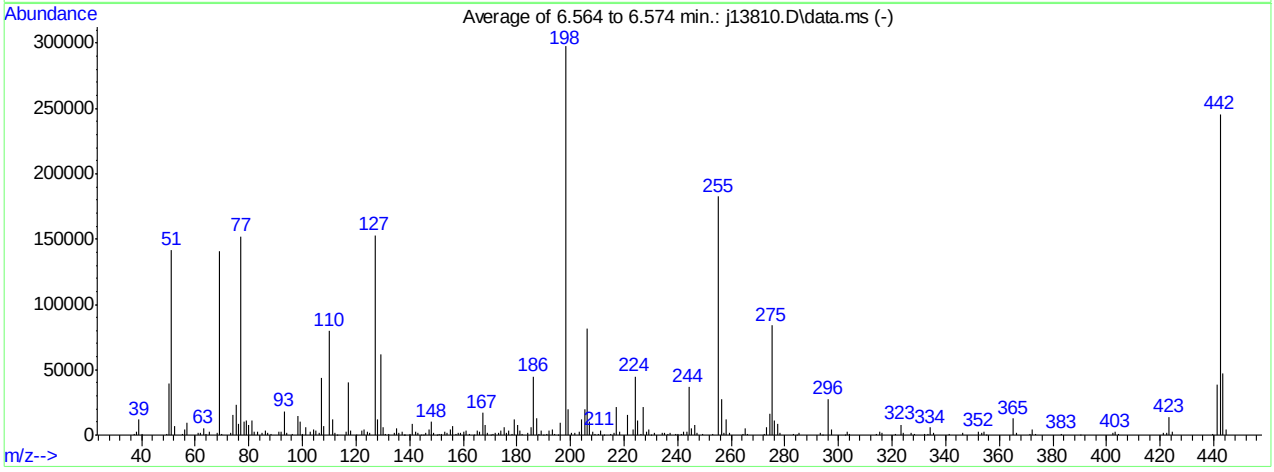
DFTPP

Data File : C:\msdchem\1\DATA\ej634\j13810.D
Acq On : 14 Oct 2009 11:04 am
Sample : dftpp
Misc : op12949,Ej634,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 203, 204, 205; Background Corrected with Scan 196

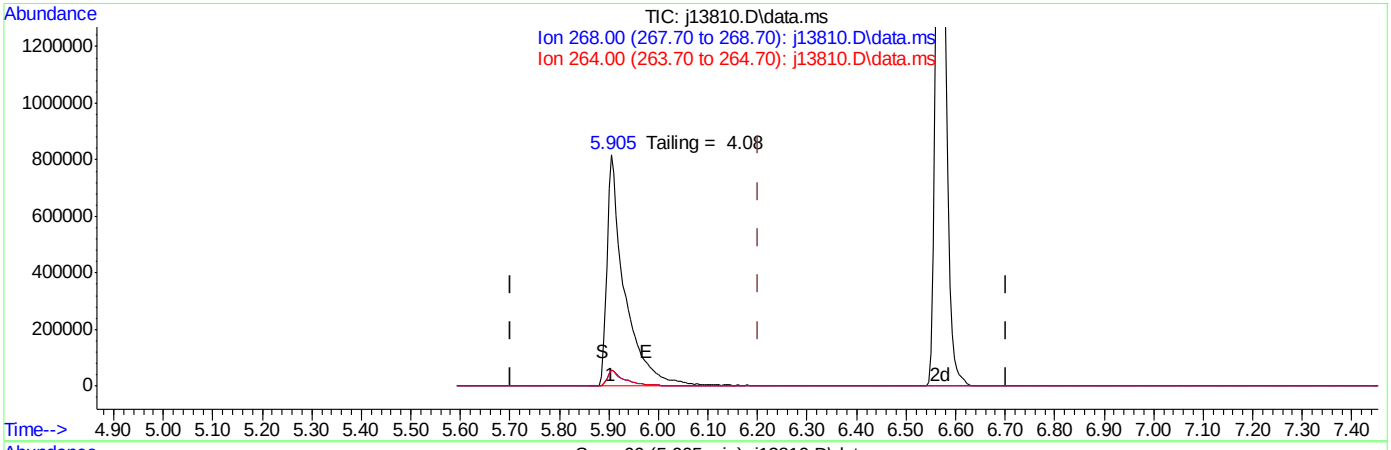
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.6	141755	PASS
68	69	0.00	2	1.0	1371	PASS
69	198	0.00	100	47.4	140989	PASS
70	69	0.00	2	0.5	705	PASS
127	198	40	60	51.4	153045	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	297493	PASS
199	198	5	9	6.7	20021	PASS
275	198	10	30	28.2	83877	PASS
365	198	1	100	4.3	12878	PASS
441	443	0.01	100	81.1	38397	PASS
442	198	40	100	82.6	245760	PASS
443	442	17	23	19.3	47363	PASS

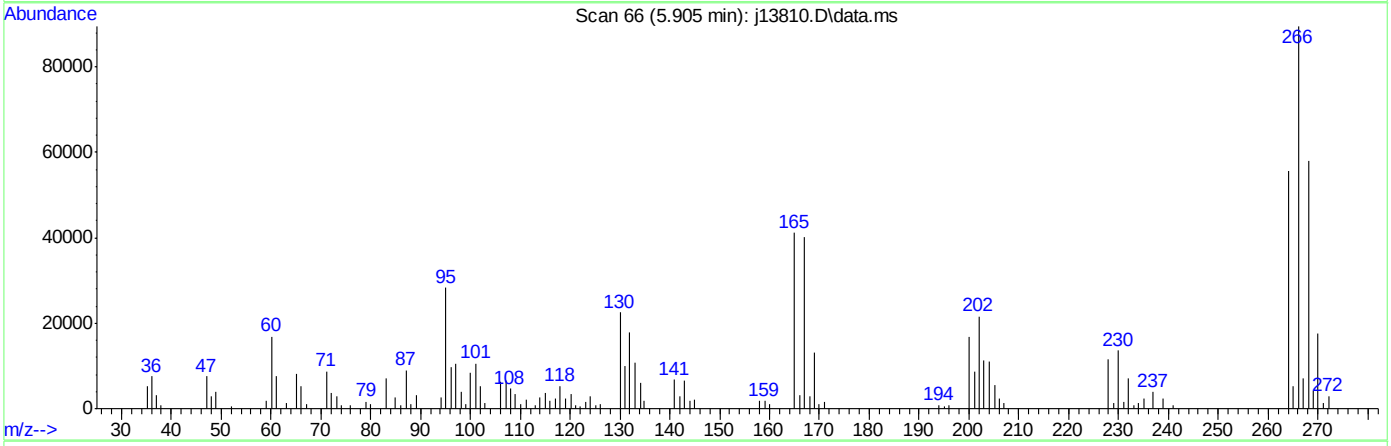
j13810.D dftpp.m Wed Oct 14 11:11:21 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13810.D
Acq On    : 14 Oct 2009  11:04 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej634,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 14 11:11:33 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





(1) Pentachlorophenol

5.905min (-0.299) 0.00

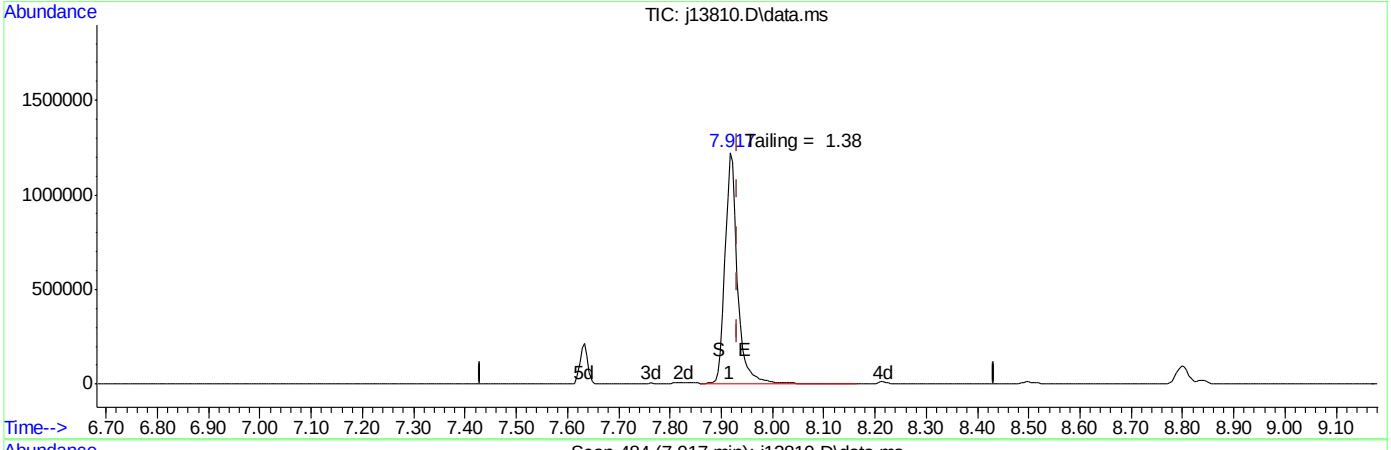
response 2055199

Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.28#
264.00	697.70	7.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13810.D
Acq On : 14 Oct 2009 11:04 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 14 11:11:33 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration



TIC: j13810.D\data.ms

(3) Benzidine

7.917min (-0.014) 0.00

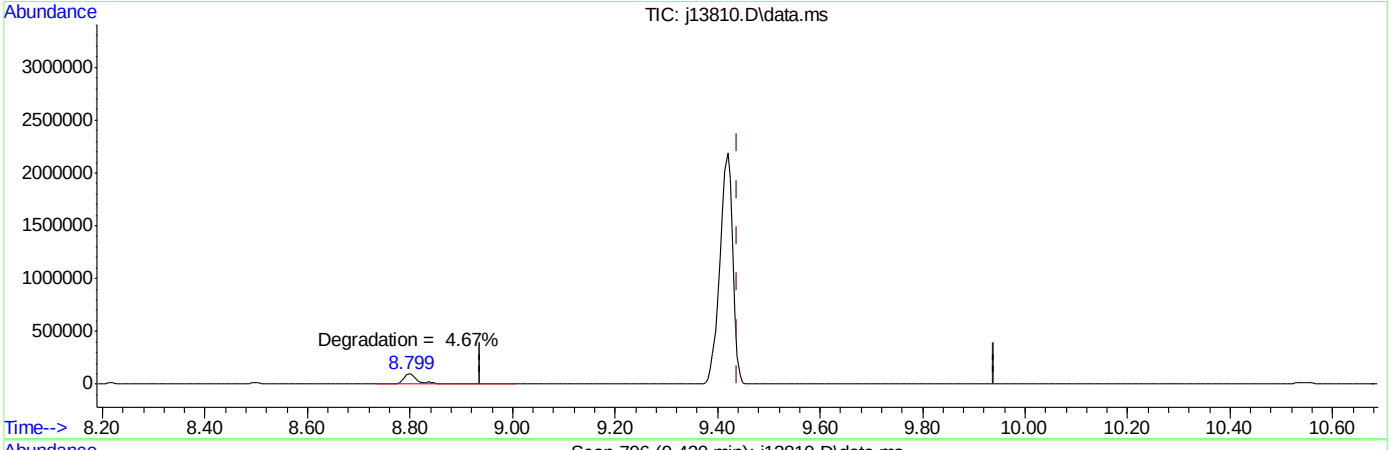
response 2097385

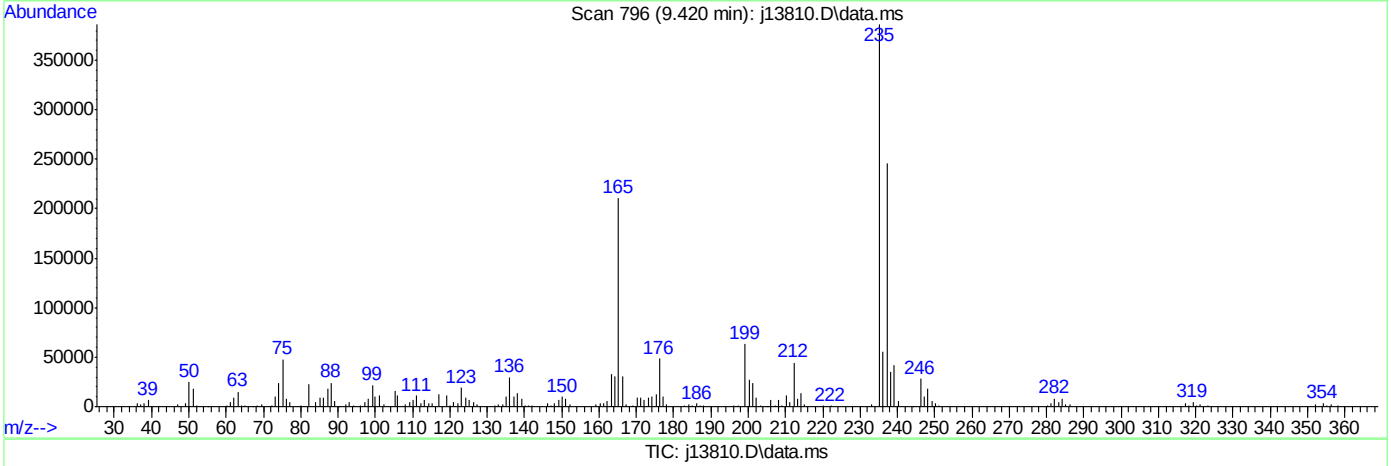
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13810.D
Acq On : 14 Oct 2009 11:04 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 14 11:11:33 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration





TIC: j13810.D\data.ms

(4) DDT

9.420min (-0.019) 0.00

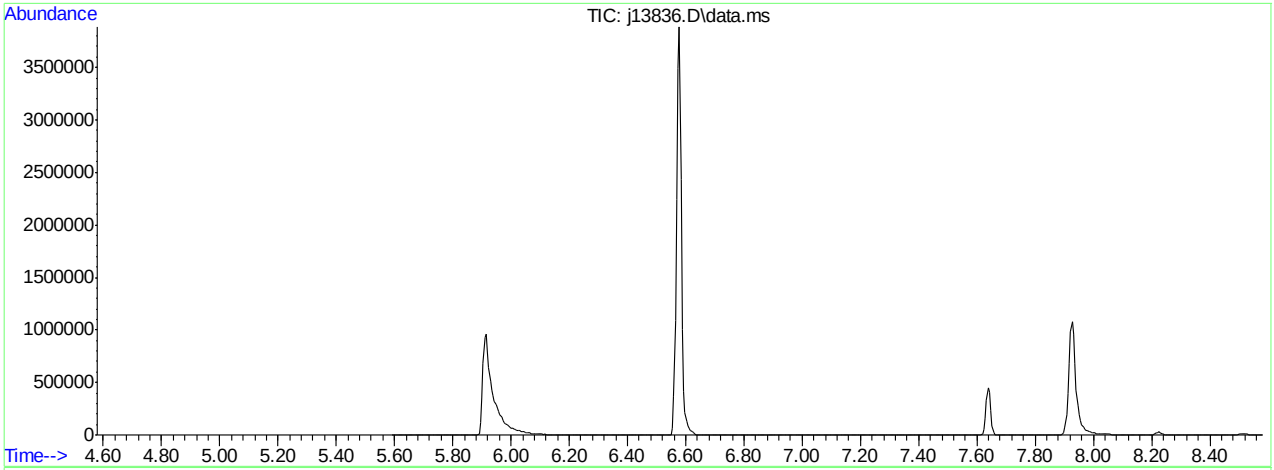
response 3828771

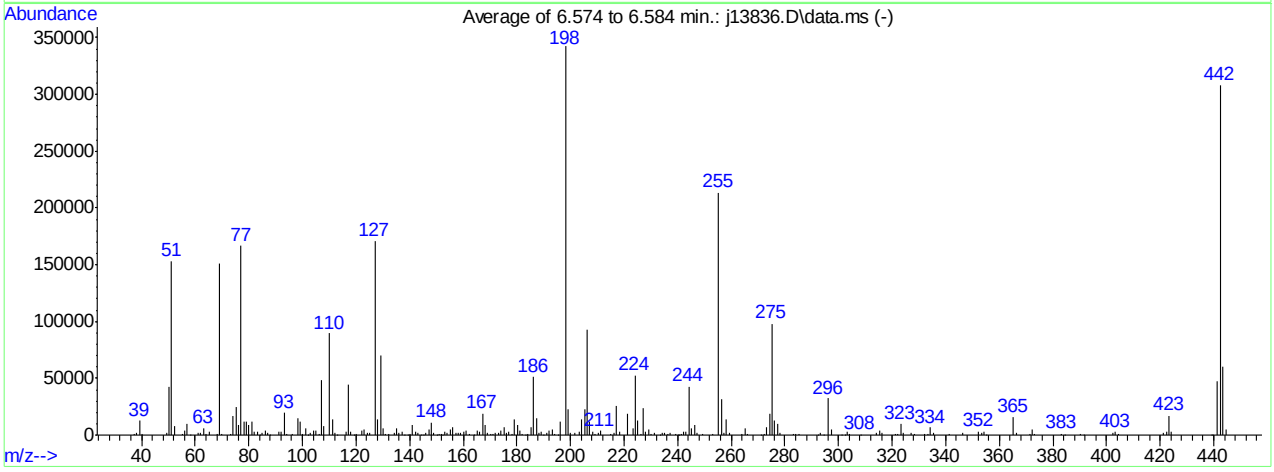
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\ej635\Snapshot\j13836.D Vial: 1
Acq On : 15 Oct 2009 10:36 am Operator: sheilac
Sample : dftpp Inst : AGC-VOA-MSJ
Misc : op12949,Ej635,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 205, 206, 207; Background Corrected with Scan 197

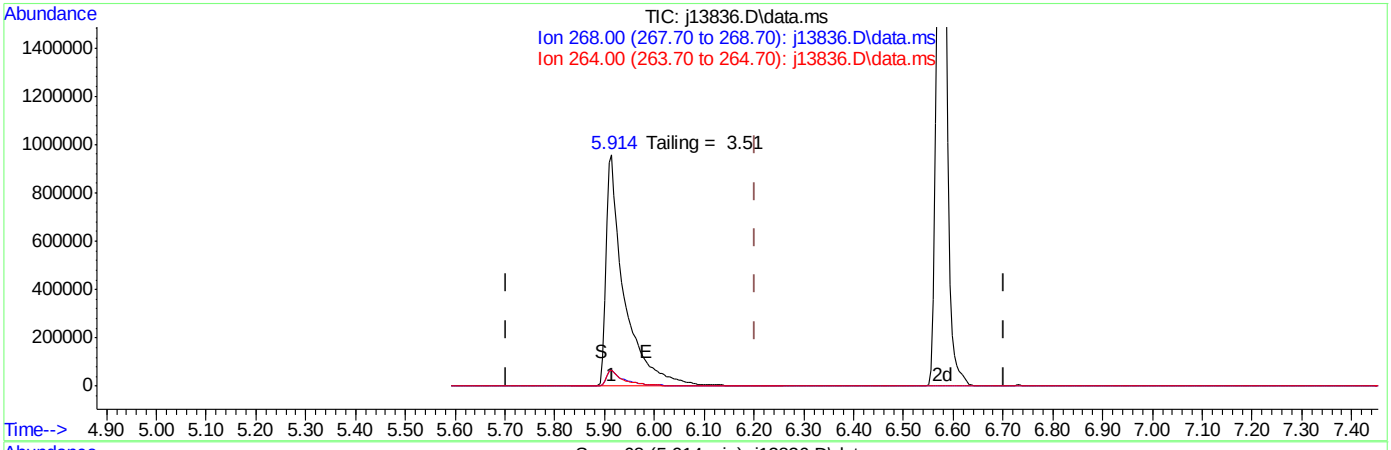
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.8	153160	PASS
68	69	0.00	2	1.0	1515	PASS
69	198	0.00	100	44.1	150896	PASS
70	69	0.00	2	0.4	628	PASS
127	198	40	60	50.0	170973	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	342208	PASS
199	198	5	9	6.7	23057	PASS
275	198	10	30	28.6	97936	PASS
365	198	1	100	4.7	15990	PASS
441	443	0.01	100	80.0	47837	PASS
442	198	40	100	90.0	308096	PASS
443	442	17	23	19.4	59784	PASS

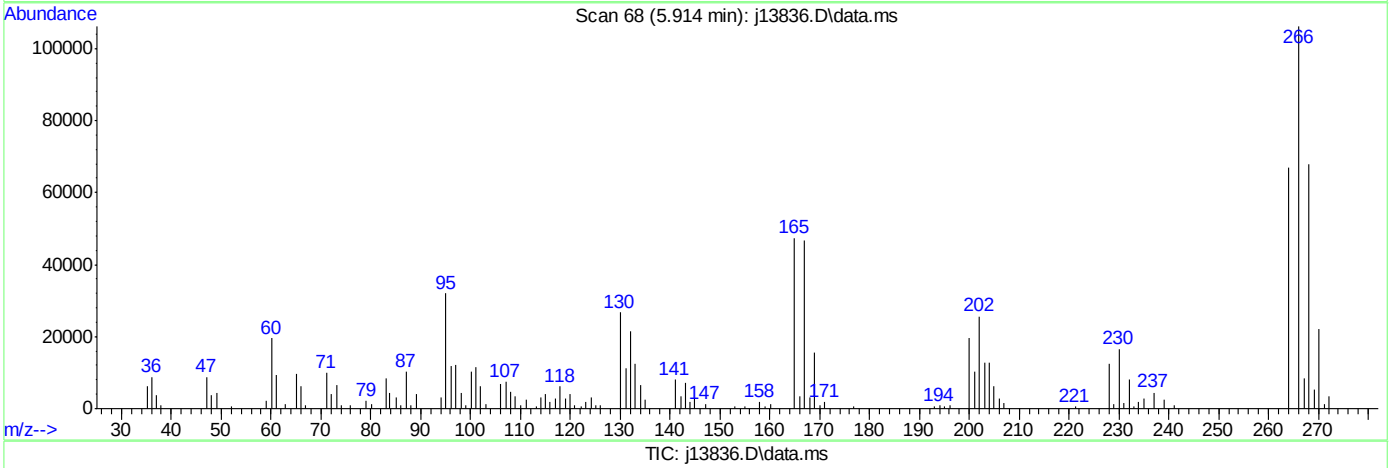
j13836.D dftpp.m Thu Oct 15 10:41:38 2009

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\ej635\Snapshot\
Data File : j13836.D
Acq On    : 15 Oct 2009  10:36 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej635,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 15 10:41:51 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13836.D\data.ms

(1) Pentachlorophenol

5.914min (-0.289) 0.00

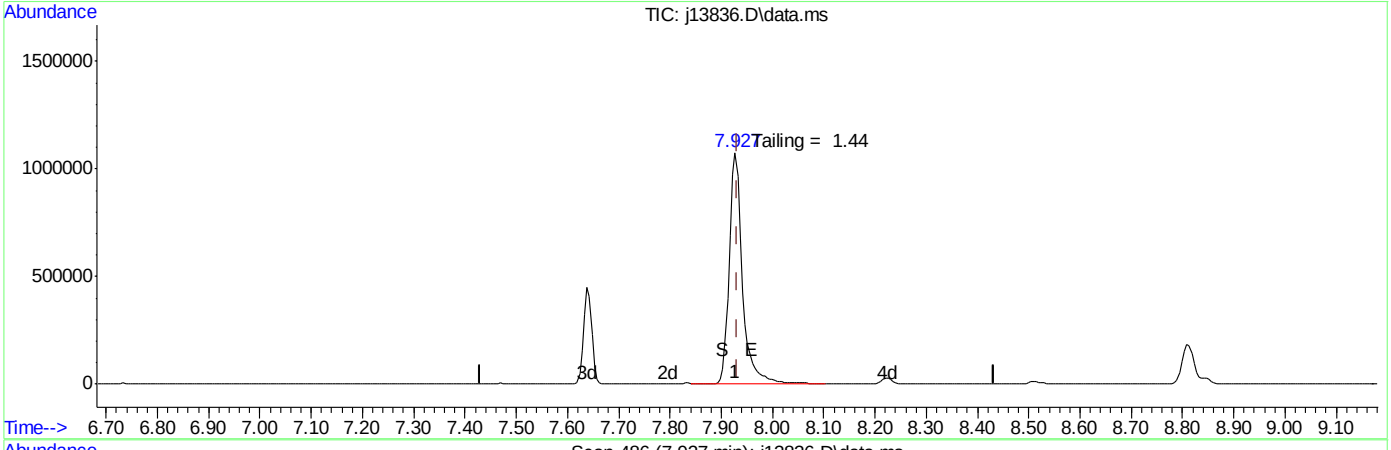
response 2464629

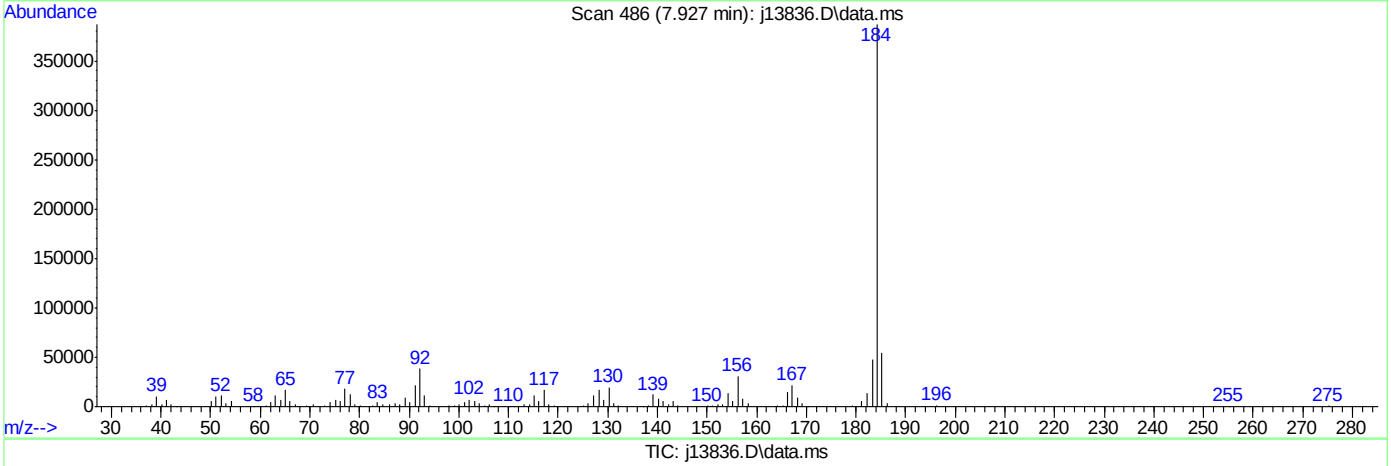
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.20#
264.00	697.70	7.02#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\ej635\Snapshot\
Data File : j13836.D
Acq On    : 15 Oct 2009  10:36 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej635,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 15 10:41:51 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13836.D\data.ms

(3) Benzidine

7.927min (-0.005) 0.00

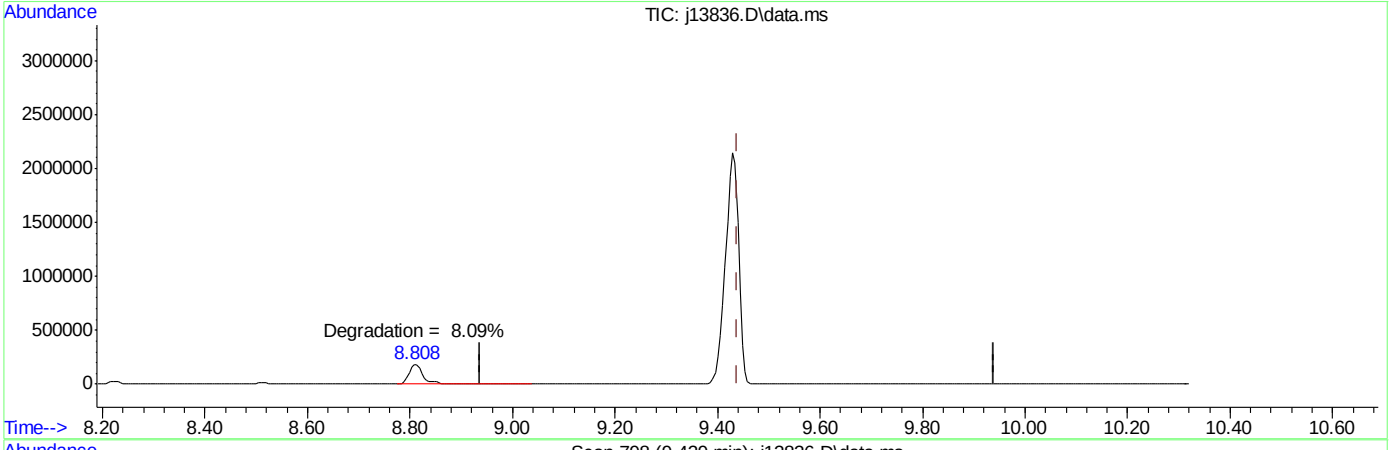
response 1897104

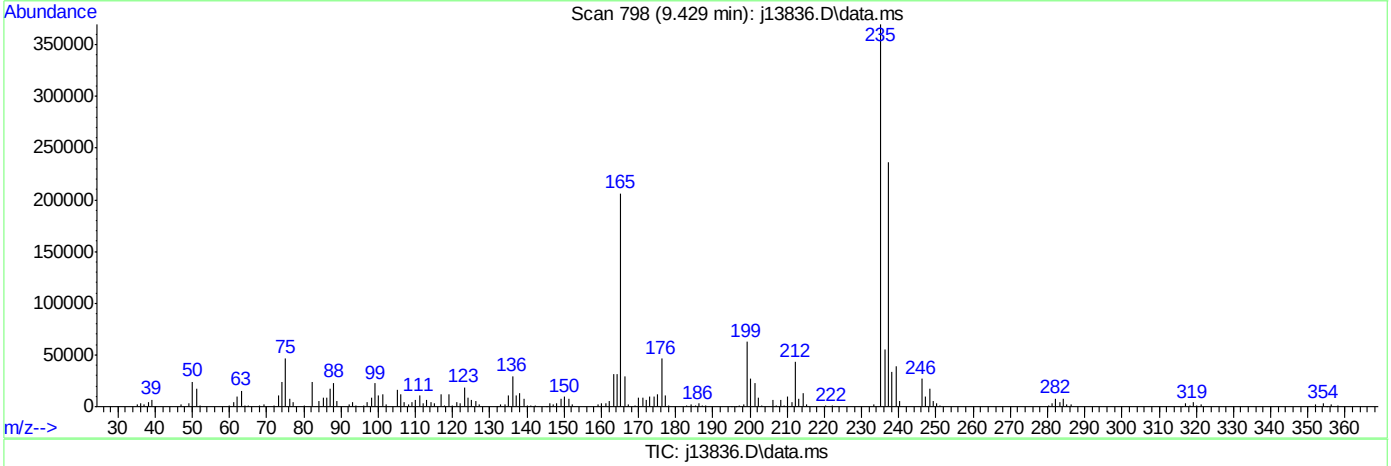
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\ej635\Snapshot\
Data File : j13836.D
Acq On    : 15 Oct 2009  10:36 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej635,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 15 10:41:51 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13836.D\data.ms

(4) DDT

9.429min (-0.010) 0.00

response 3811991

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	76787	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	47180	4.00	ppb	0.02
9) Acenaphthene-d10	9.57	164	38115	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	63280	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10939	4.00	ppb	0.02
26) Perylene-d12	16.37	264	4528	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.60	82	16681	8.24	ppb	0.05
Spiked Amount 5.000	Range 17 - 131		Recovery	=	164.80%#	
10) 2-Fluorobiphenyl	8.87	172	145284	5.66	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	113.20%	
16) 2,4,6-Tribromophenol	10.42	330	22515	10.92	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	109.20%	
23) Terphenyl-d14	12.68	244	12222	5.89	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	117.80%	

Target Compounds

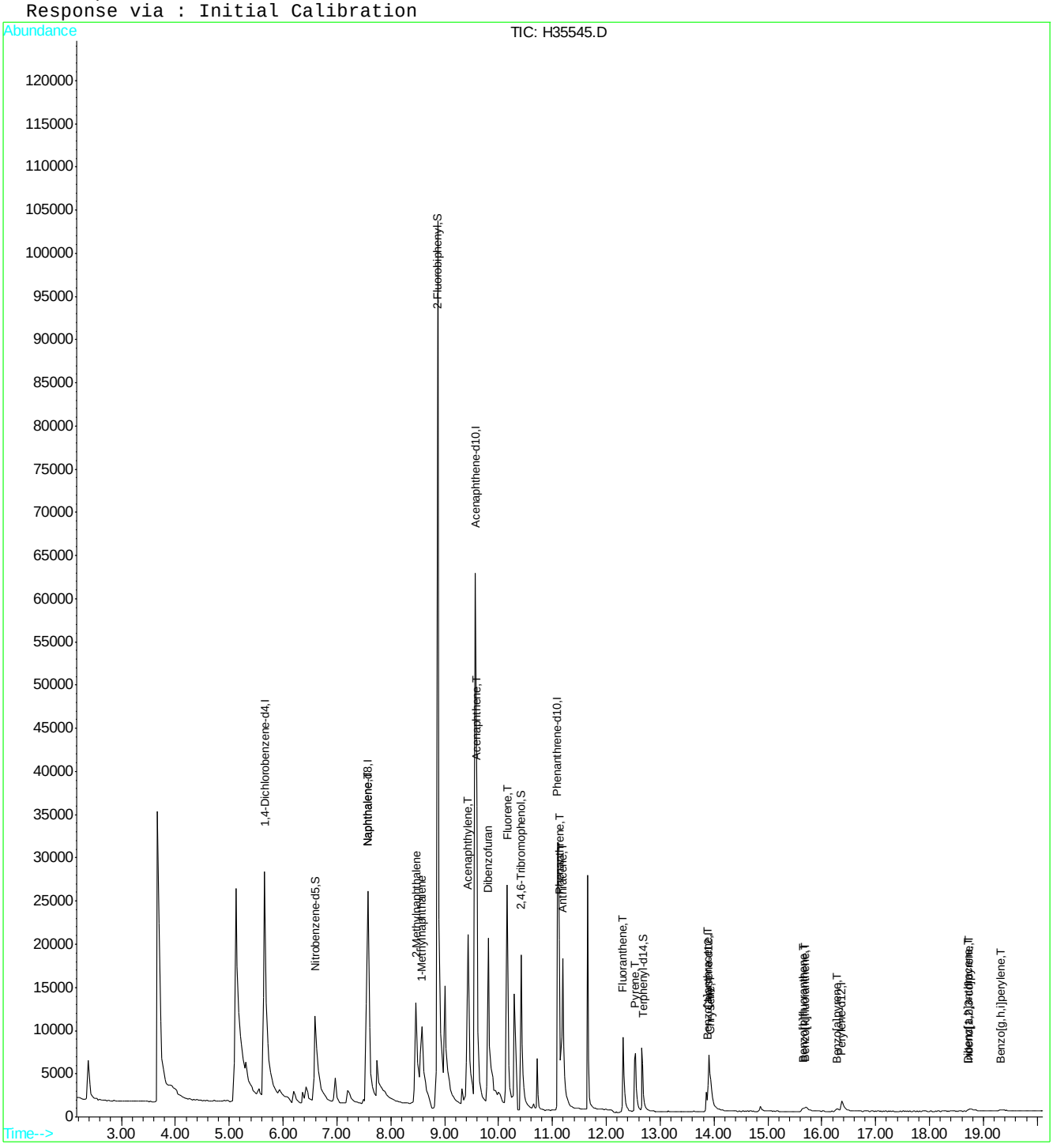
							Qvalue
6) Naphthalene	7.57	128	23265	1.97	ppb	#	83
7) 2-Methylnaphthalene	8.47	142	21304	1.81	ppb	#	88
8) 1-Methylnaphthalene	8.58	142	26240	1.69	ppb	#	93
11) Acenaphthylene	9.43	152	30128	1.41	ppb	#	79
12) Acenaphthene	9.60	153	22356	1.03	ppb	#	72
13) Dibenzofuran	9.81	168	36992	2.07	ppb	#	62
14) Fluorene	10.16	166	23450	2.35	ppb		90
18) Phenanthrene	11.13	178	27877	0.92	ppb		92
19) Anthracene	11.19	178	33279	1.06	ppb		99
20) Fluoranthene	12.31	202	16252	0.60	ppb		99
22) Pyrene	12.54	202	17911	1.82	ppb	#	83
24) Benzo[a]anthracene	13.88	228	2864m	0.81	ppb		
25) Chrysene	13.94	228	4652m	1.06	ppb		
27) Benzo[b]fluoranthene	15.66	252	990m	0.63	ppb		
28) Benzo[k]fluoranthene	15.69	252	2308m	0.88	ppb		
29) Benzo[a]pyrene	16.28	252	1531	1.04	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.74	276	1025	1.51	ppb		85
31) Dibenz[a,h]anthracene	18.72	278	741	1.71	ppb	#	80
32) Benzo[g,h,i]perylene	19.32	276	979	1.65	ppb		90

(#) = qualifier out of range (m) = manual integration
H35545.D H10269SP.M Tue Oct 27 14:20:00 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: H10229SP.RES

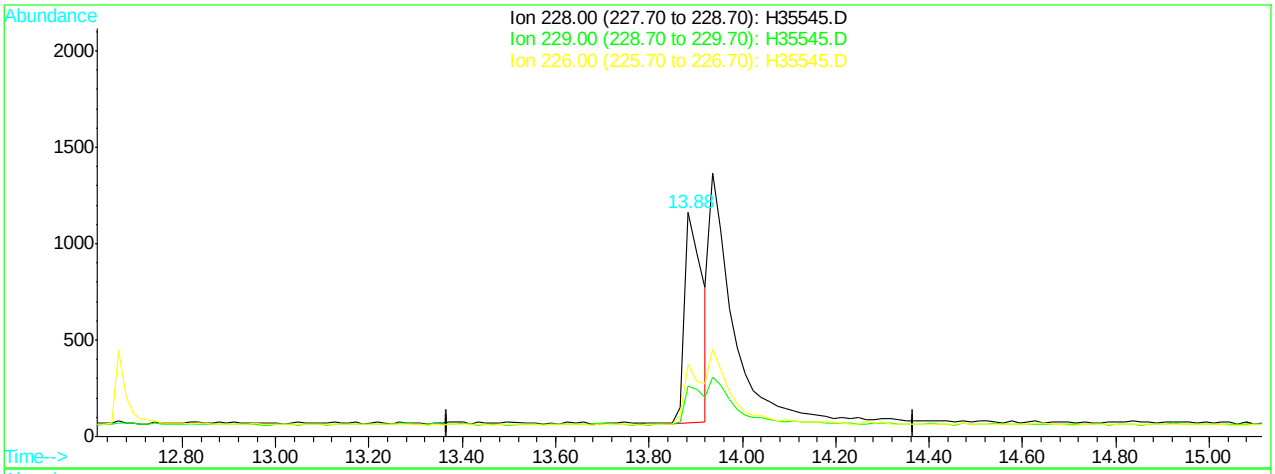
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

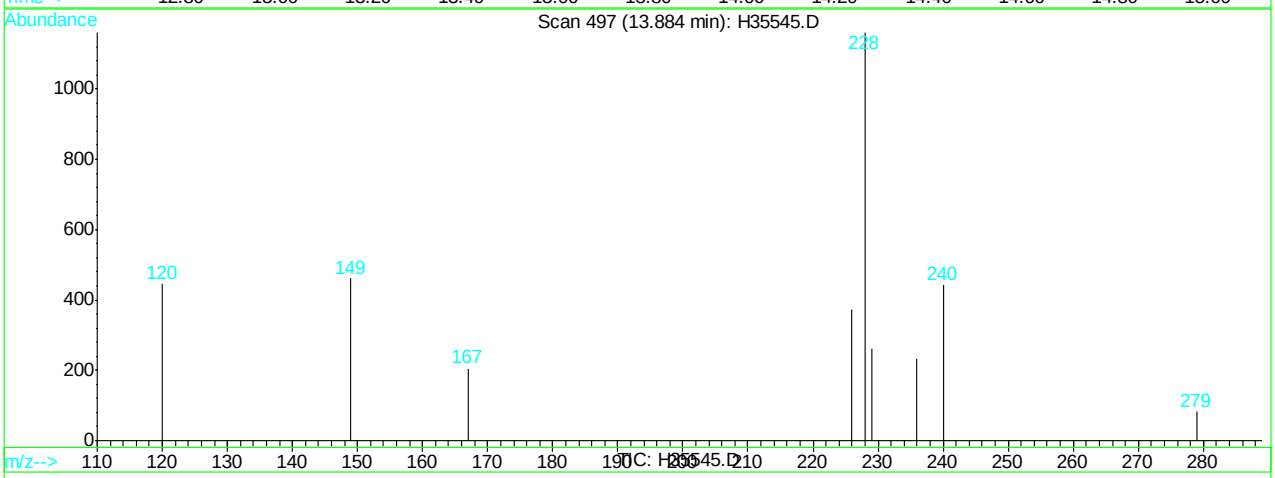


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 0.81ppb m

response 2864

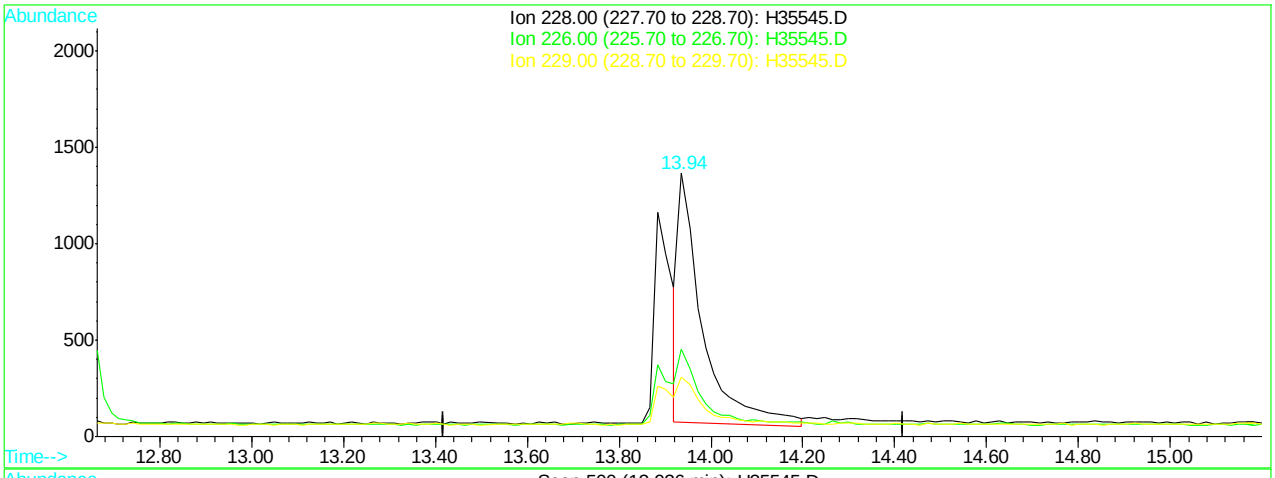
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	22.41
226.00	23.70	32.07#
0.00	0.00	0.00

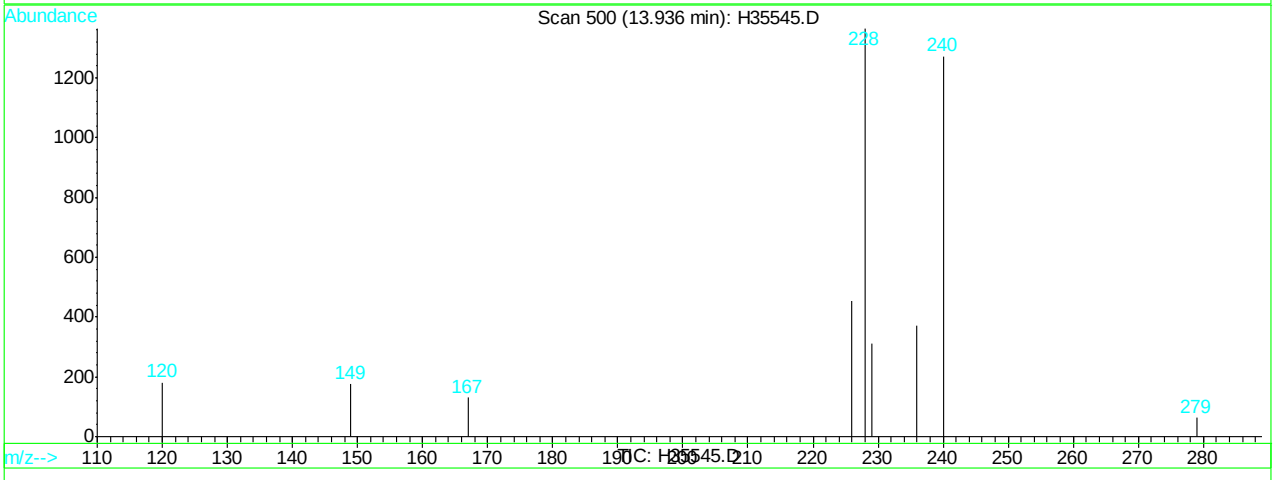
H35545.D H10269SP.M Tue Oct 27 14:20:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 1.06ppb m

response 4652

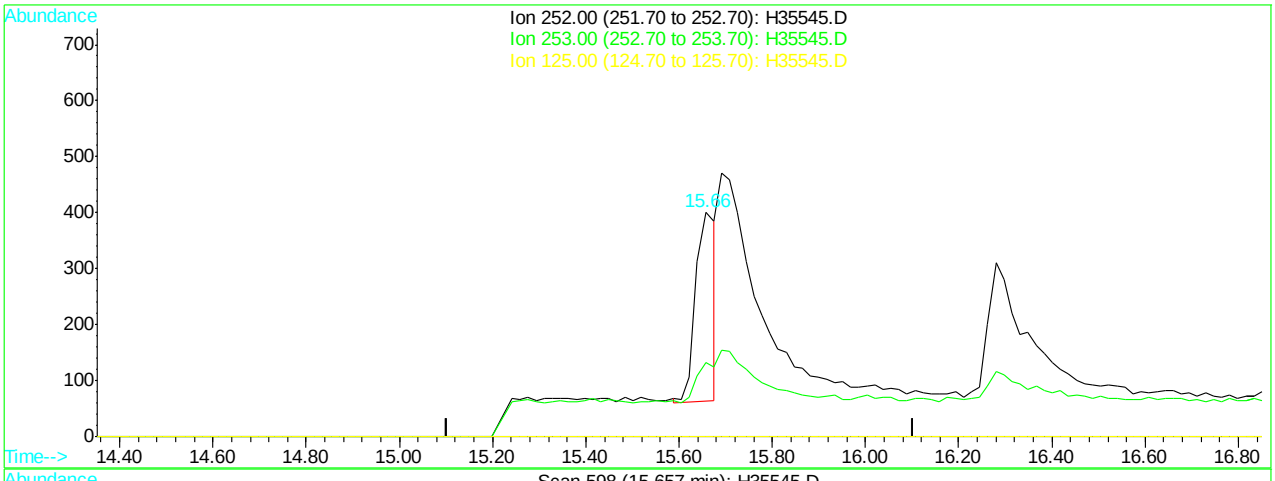
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	33.11
229.00	20.90	22.78
0.00	0.00	0.00

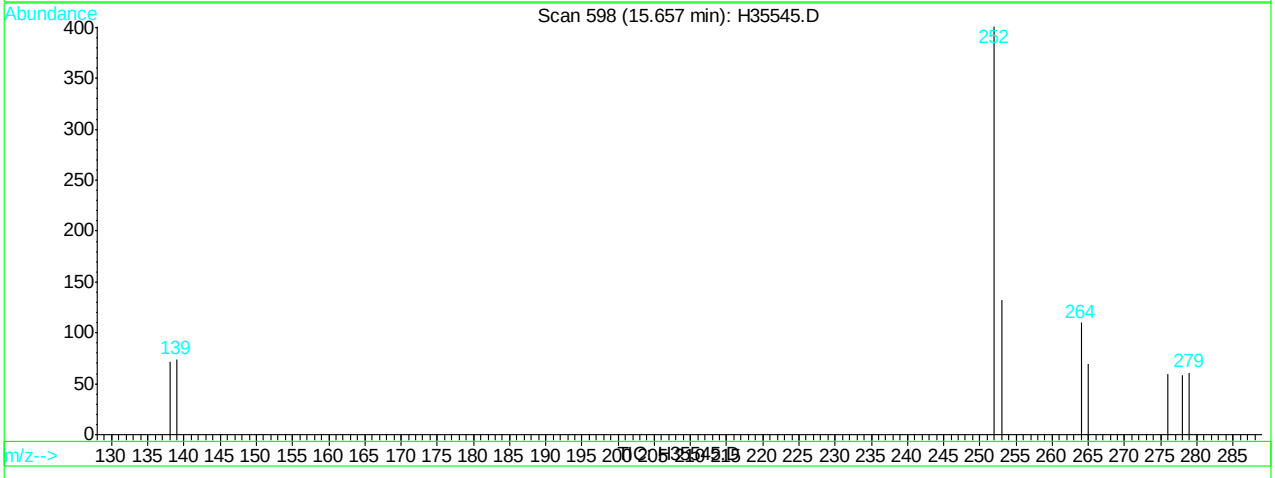
H35545.D H10269SP.M Tue Oct 27 14:20:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.63ppb m

response 990

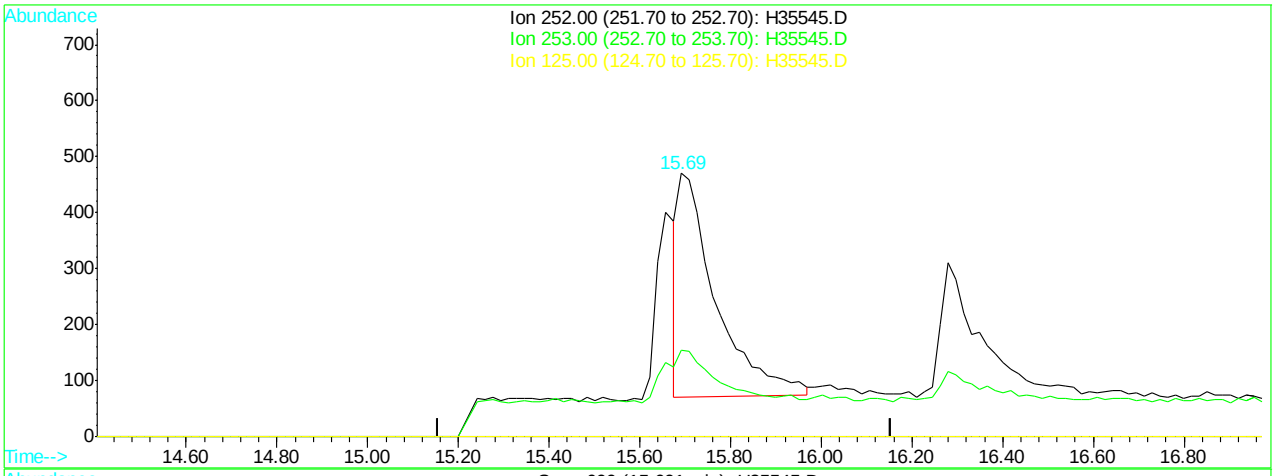
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	32.92#
125.00	0.00	0.00
0.00	0.00	0.00

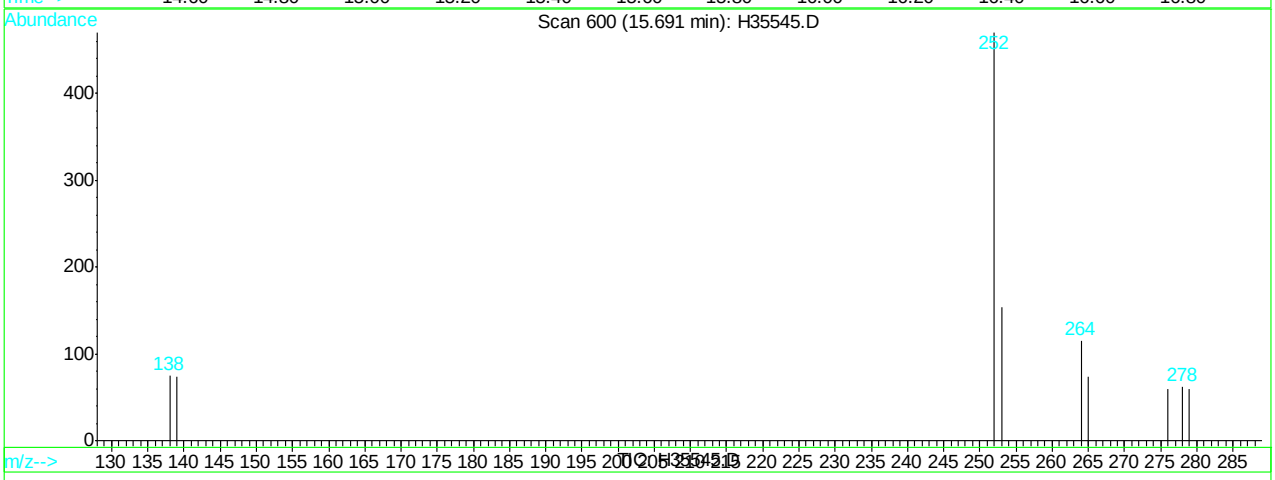
H35545.D H10269SP.M Tue Oct 27 14:20:40 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 0.88ppb m

response 2308

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	32.77#
125.00	0.00	0.00
0.00	0.00	0.00

H35545.D H10269SP.M Tue Oct 27 14:20:43 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:32:20 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	70003	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	48295	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	33786	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	46589	4.00	ppb	0.02
21) Chrysene-d12	13.92	240	7354	4.00	ppb	0.02
26) Perylene-d12	16.38	264	4017	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	6.42	82	304	0.11	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	2.20%#	
10) 2-Fluorobiphenyl	8.90	172	15108	0.58	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	11.60%#	
16) 2,4,6-Tribromophenol	10.47	330	637m	0.41	ppb	0.07
Spiked Amount 10.000	Range 10 - 123		Recovery	=	4.10%#	
23) Terphenyl-d14	12.69	244	660	0.42	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	8.40%#	

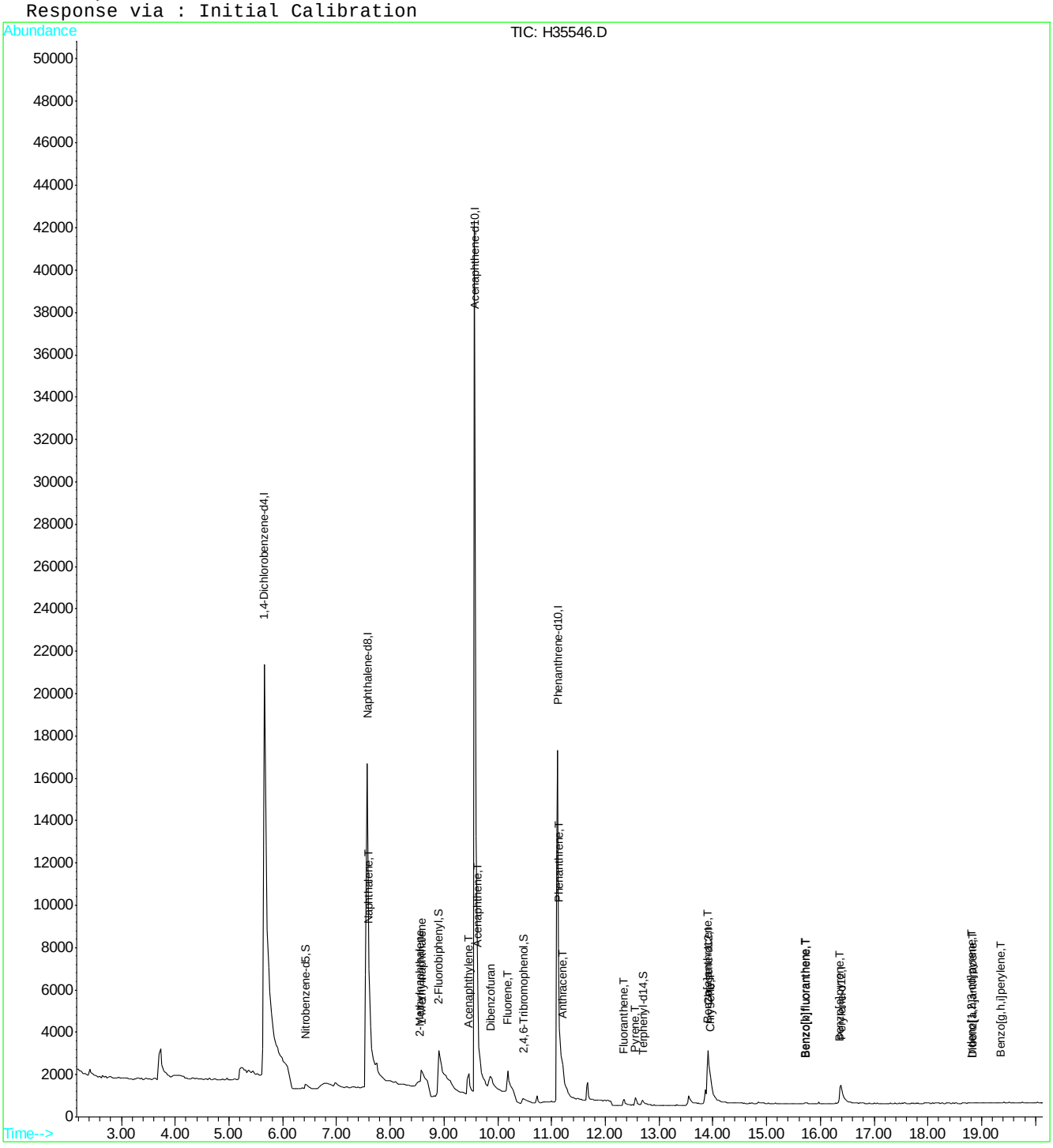
Target Compounds							Qvalue
6) Naphthalene	7.60	128	2070	0.13	ppb	#	81
7) 2-Methylnaphthalene	8.55	142	608m	0.04	ppb		
8) 1-Methylnaphthalene	8.58	142	1745m	0.10	ppb		
11) Acenaphthylene	9.46	152	2678	0.12	ppb		97
12) Acenaphthene	9.62	153	2119	0.11	ppb	#	55
13) Dibenzofuran	9.86	168	2755	0.12	ppb		97
14) Fluorene	10.19	166	1234	0.09	ppb		87
18) Phenanthrene	11.13	178	2381	0.11	ppb	#	83
19) Anthracene	11.21	178	2774	0.12	ppb	#	89
20) Fluoranthene	12.34	202	1011	0.06	ppb		96
22) Pyrene	12.56	202	1578	0.17	ppb		95
24) Benzo[a]anthracene	13.90	228	159m	0.07	ppb		
25) Chrysene	13.95	228	401m	0.13	ppb		
27) Benzo[b]fluoranthene	15.71	252	66m	0.05	ppb		
28) Benzo[k]fluoranthene	15.73	252	124m	0.06	ppb		
29) Benzo[a]pyrene	16.37	252	94	0.07	ppb		93
30) Indeno[1,2,3-cd]pyrene	18.81	276	54	0.08	ppb	#	50
31) Dibenz[a,h]anthracene	18.82	278	57	0.12	ppb	#	87
32) Benzo[g,h,i]perylene	19.36	276	49	0.08	ppb	#	1

(#) = qualifier out of range (m) = manual integration
H35546.D H10269SP.M Tue Oct 27 14:20:51 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

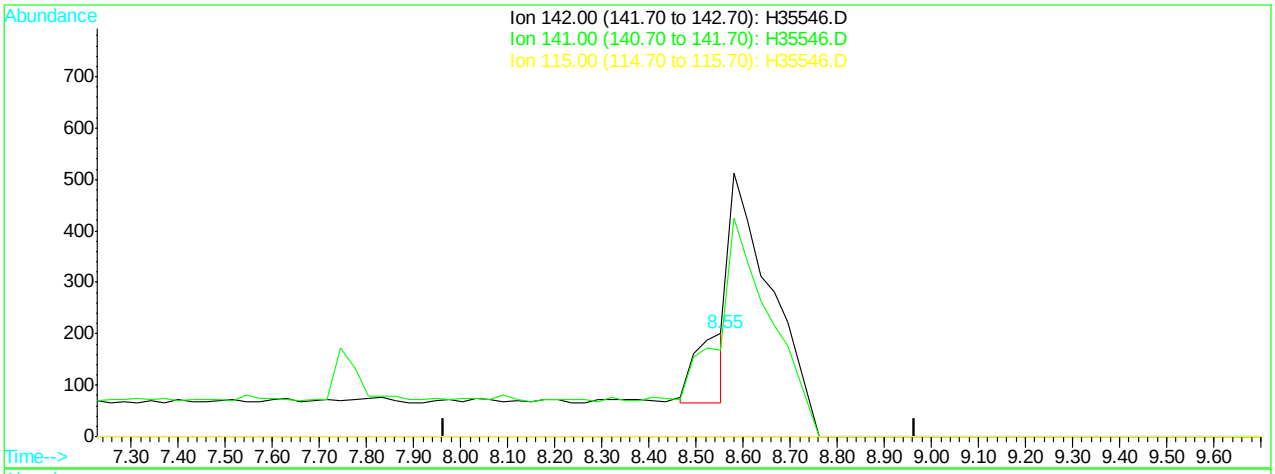


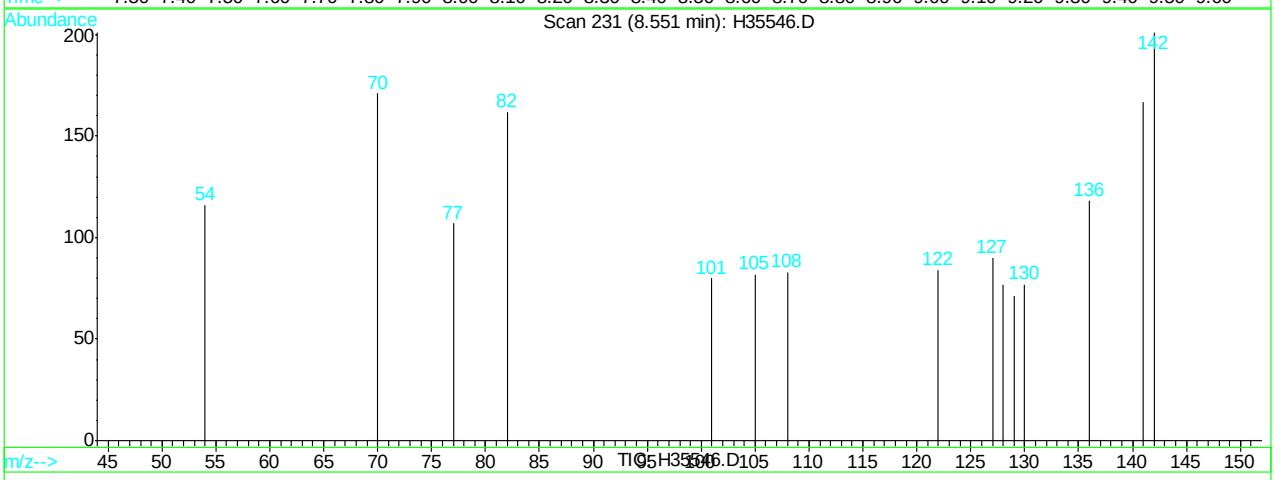
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.04ppb m

response 608

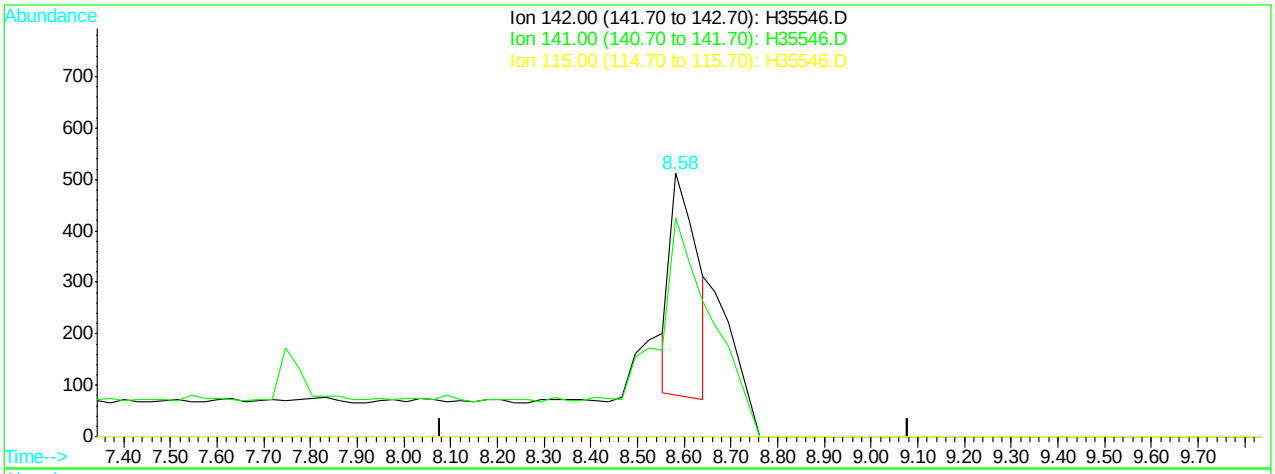
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	629.28#
115.00	0.00	0.00
0.00	0.00	0.00

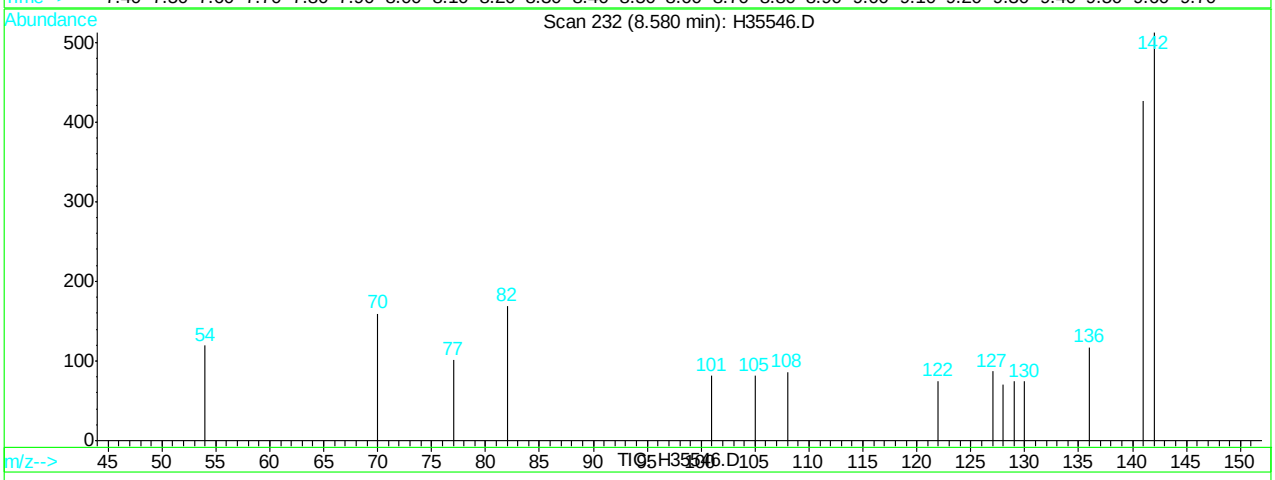
H35546.D H10269SP.M Tue Oct 27 14:21:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.10ppb m

response 1745

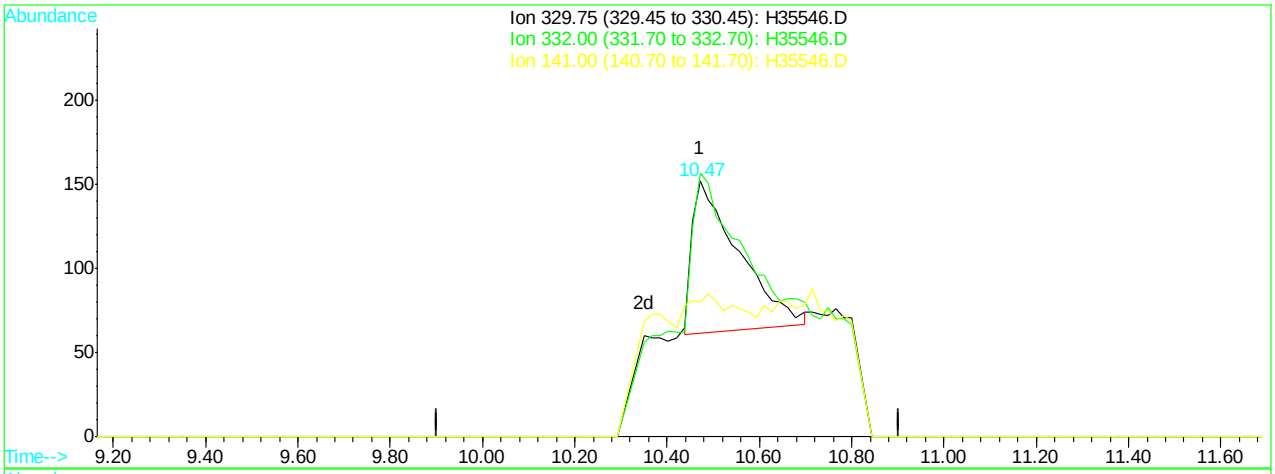
Ion	Exp%	Act%
142.00	100	100
141.00	90.30	219.26#
115.00	0.00	0.00
0.00	0.00	0.00

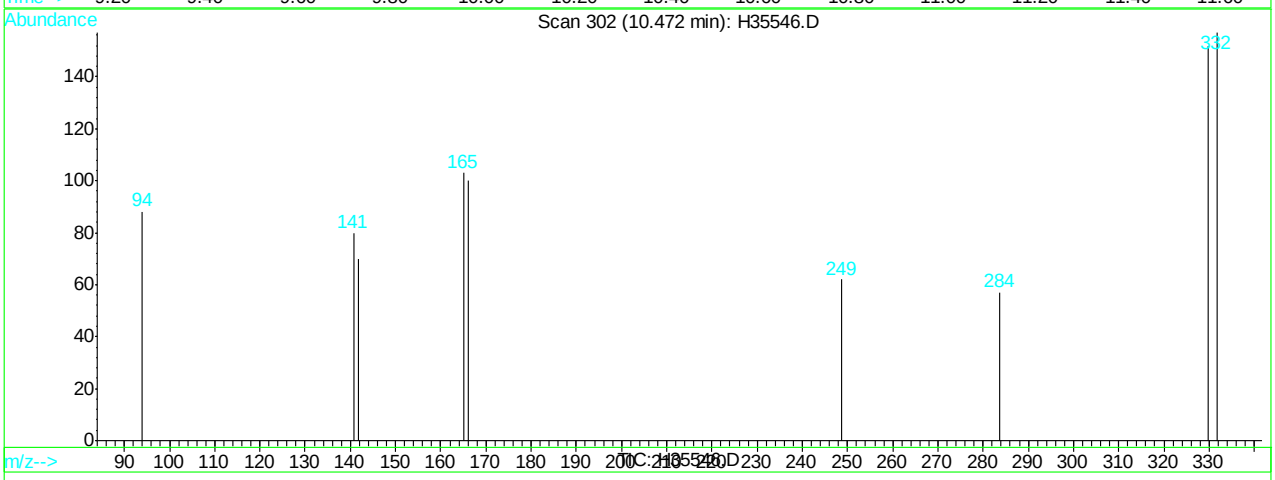
H35546.D H10269SP.M Tue Oct 27 14:21:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.47min 0.41ppb m

response 637

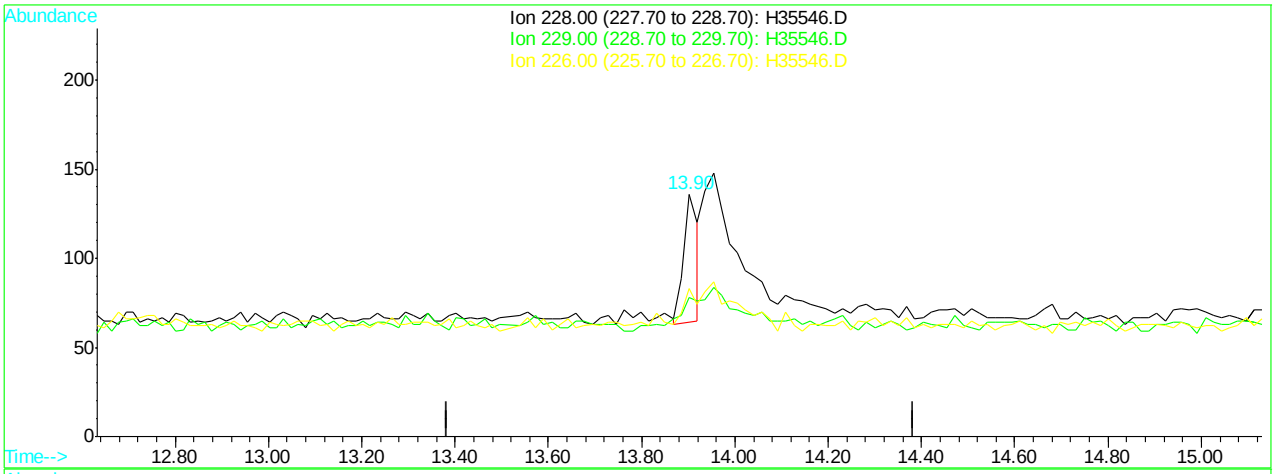
Ion	Exp%	Act%
329.75	100	100
332.00	98.20	390.42#
141.00	18.20	0.00#
0.00	0.00	0.00

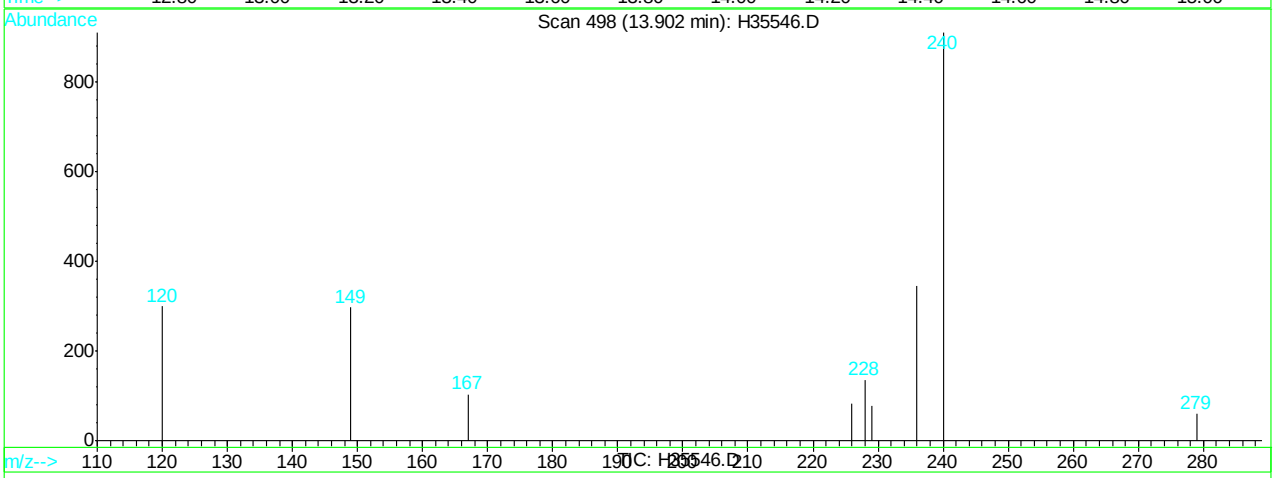
H35546.D H10269SP.M Tue Oct 27 14:21:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.07ppb m

response 159

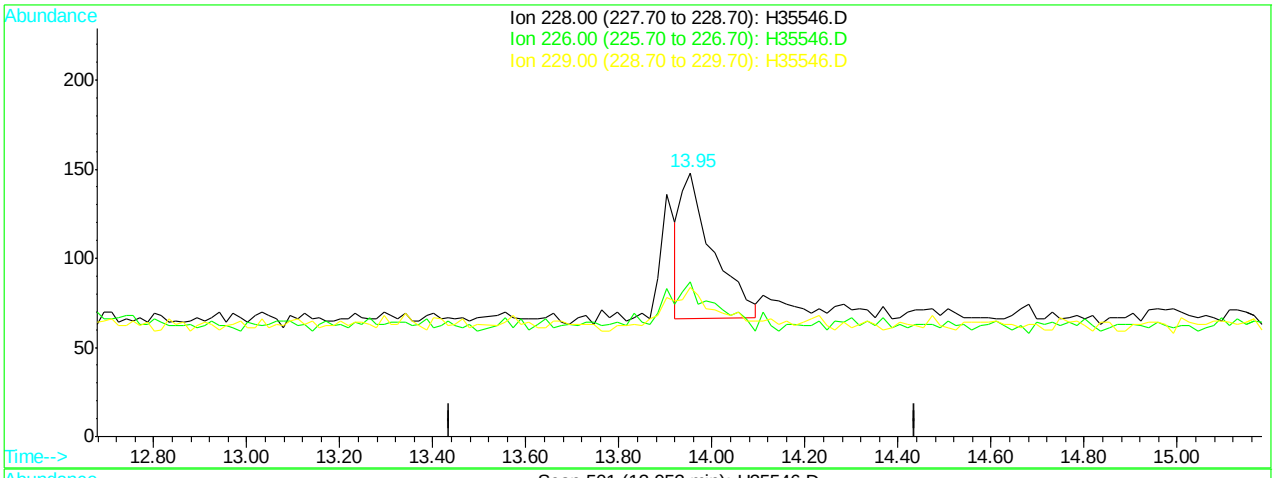
Ion	Exp%	Act%
228.00	100	100
229.00	19.00	57.35#
226.00	28.70	61.03#
0.00	0.00	0.00

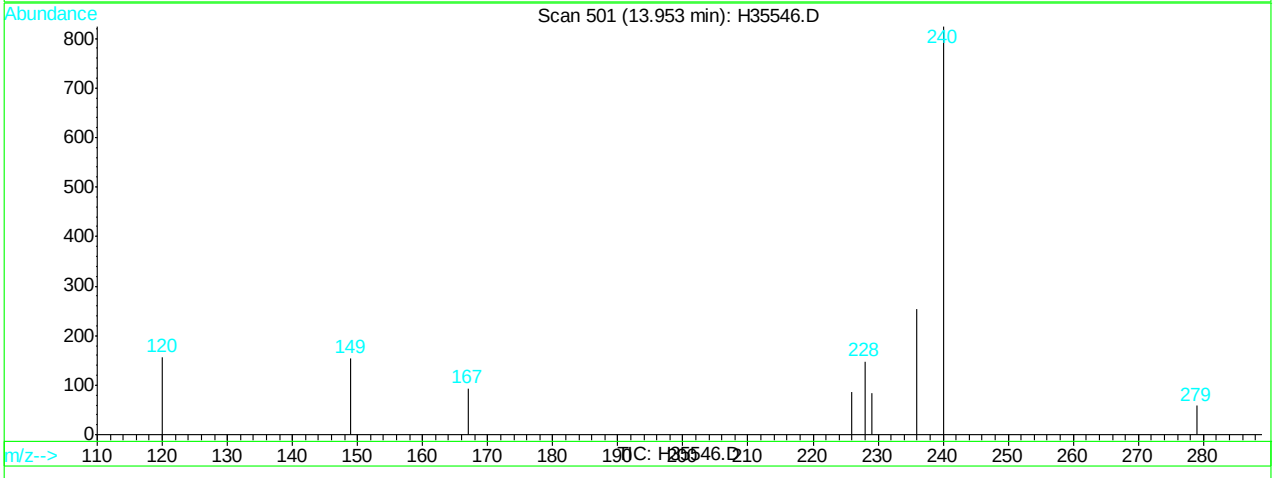
H35546.D H10269SP.M Tue Oct 27 14:21:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.13ppb m

response 401

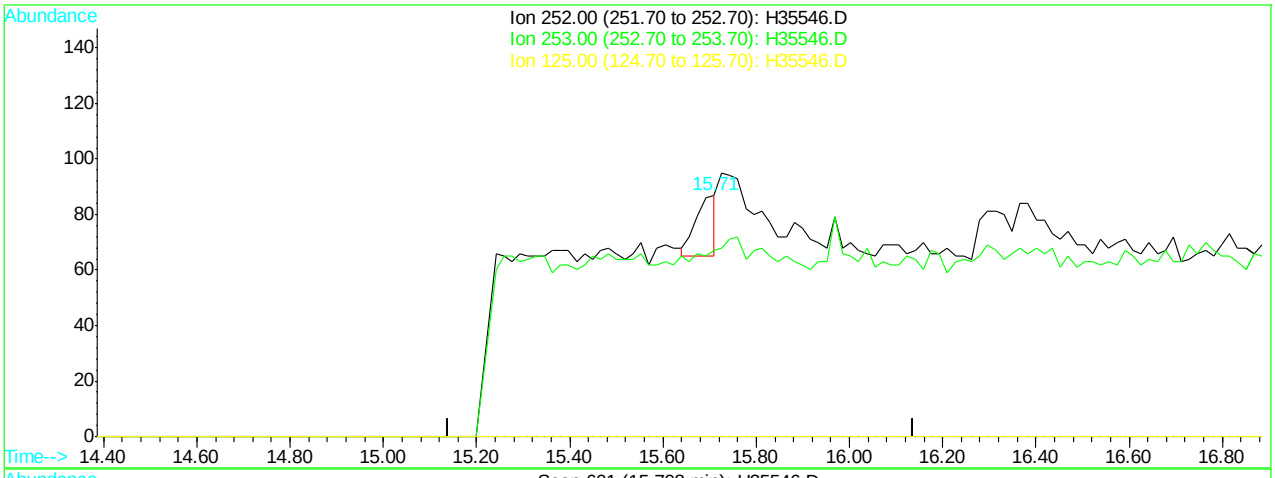
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	58.78#
229.00	18.40	56.76#
0.00	0.00	0.00

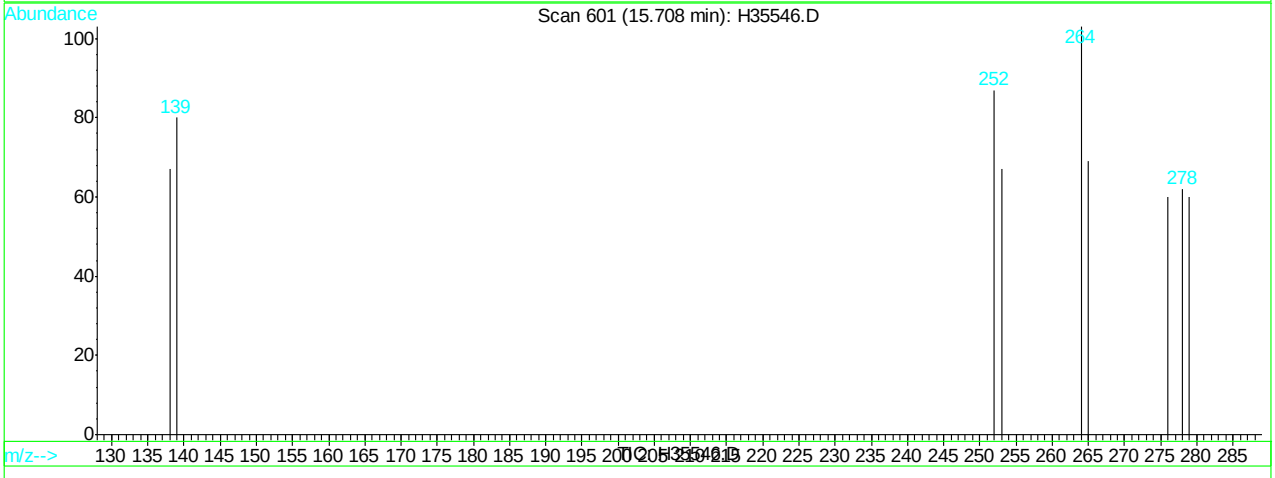
H35546.D H10269SP.M Tue Oct 27 14:21:51 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.71min 0.05ppb m

response 66

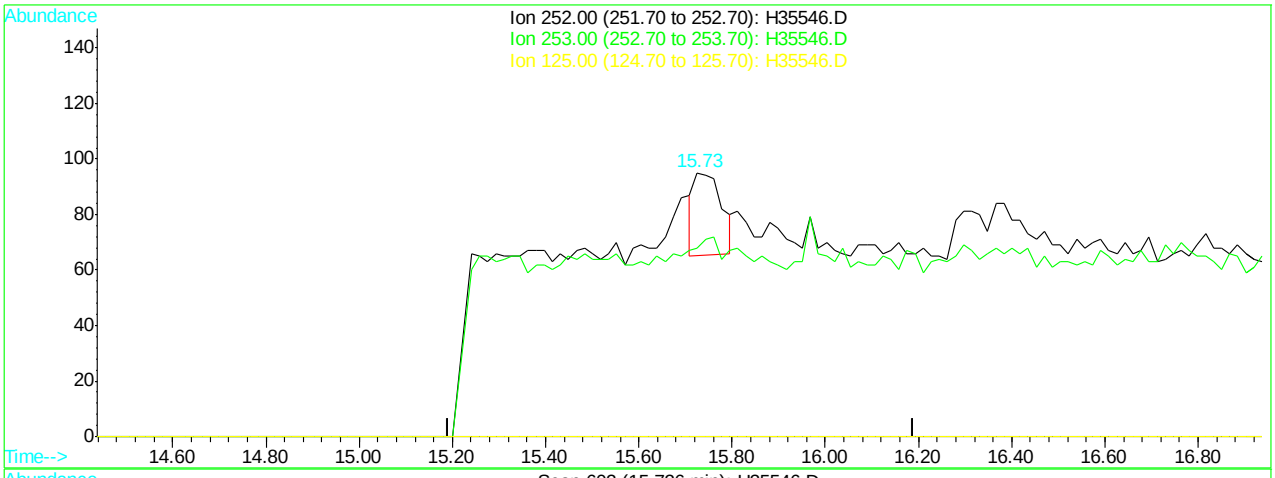
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	77.01#
125.00	0.00	0.00
0.00	0.00	0.00

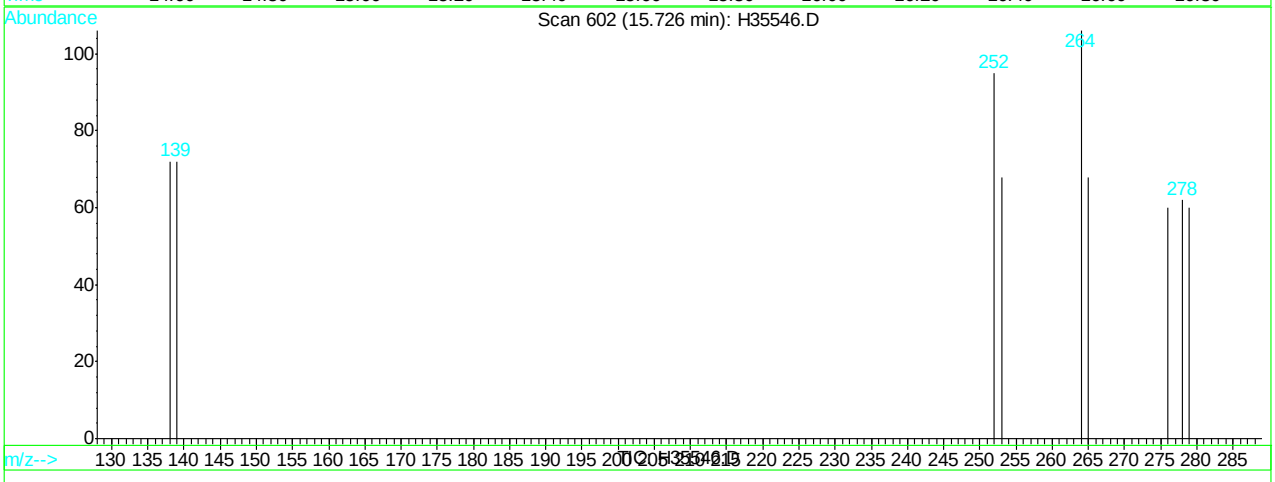
H35546.D H10269SP.M Tue Oct 27 14:21:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 0.06ppb m

response 124

Ion	Exp%	Act%
252.00	100	100
253.00	26.80	71.58#
125.00	0.00	0.00
0.00	0.00	0.00

H35546.D H10269SP.M Tue Oct 27 14:22:01 2009

8.6.2.7

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:35:11 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	64635	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	44876	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	37893	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	47945	4.00	ppb	0.02
21) Chrysene-d12	13.92	240	7690	4.00	ppb	0.02
26) Perylene-d12	16.38	264	3914	4.00	ppb	0.02
System Monitoring Compounds						
5) Nitrobenzene-d5	6.71	82	2208	0.97	ppb	0.14
Spiked Amount 5.000	Range 17 - 131		Recovery = 19.40%			
10) 2-Fluorobiphenyl	8.90	172	24505	0.79	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery = 15.80%			
16) 2,4,6-Tribromophenol	10.46	330	1639m	1.05	ppb	0.05
Spiked Amount 10.000	Range 10 - 123		Recovery = 10.50%			
23) Terphenyl-d14	12.70	244	1244	0.77	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery = 15.40%			

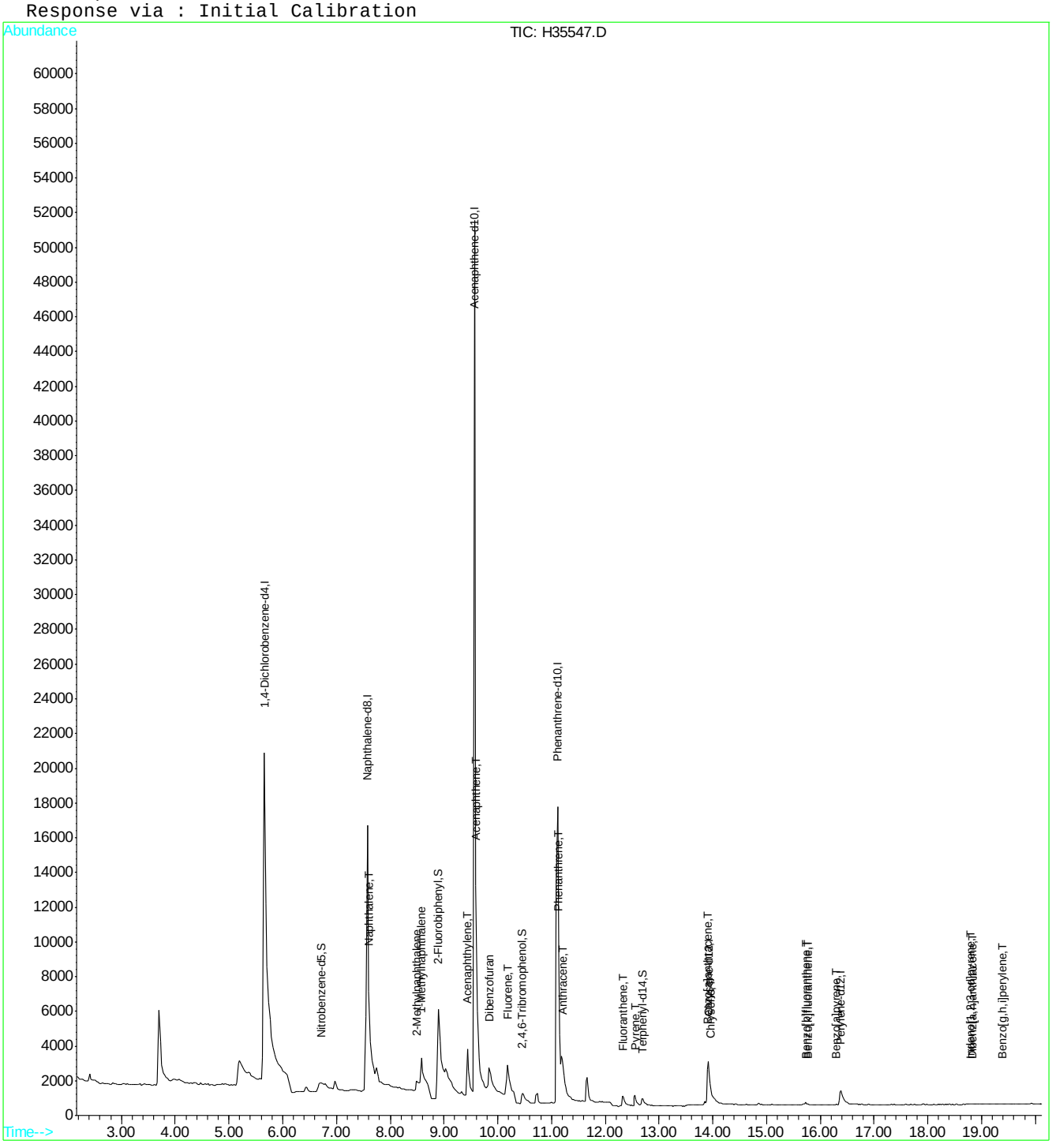
Target Compounds							Qvalue
6) Naphthalene	7.60	128	3597	0.23	ppb	#	81
7) 2-Methylnaphthalene	8.49	142	1477m	0.10	ppb		
8) 1-Methylnaphthalene	8.58	142	3464m	0.21	ppb		
11) Acenaphthylene	9.43	152	5670	0.22	ppb		90
12) Acenaphthene	9.60	153	3685	0.16	ppb		93
13) Dibenzofuran	9.84	168	5080	0.18	ppb		96
14) Fluorene	10.19	166	2676	0.17	ppb		90
18) Phenanthrene	11.13	178	4217	0.18	ppb	#	85
19) Anthracene	11.21	178	5275	0.21	ppb	#	89
20) Fluoranthene	12.33	202	1943	0.12	ppb		98
22) Pyrene	12.56	202	2119	0.20	ppb	#	89
24) Benzo[a]anthracene	13.90	228	257m	0.11	ppb		
25) Chrysene	13.95	228	679m	0.21	ppb		
27) Benzo[b]fluoranthene	15.74	252	228m	0.18	ppb		
28) Benzo[k]fluoranthene	15.76	252	85m	0.04	ppb		
29) Benzo[a]pyrene	16.30	252	244m	0.19	ppb		
30) Indeno[1,2,3-cd]pyrene	18.79	276	54	0.08	ppb		95
31) Dibenz[a,h]anthracene	18.82	278	100	0.20	ppb	#	72
32) Benzo[g,h,i]perylene	19.39	276	113	0.18	ppb	#	53

(#) = qualifier out of range (m) = manual integration
H35547.D H10269SP.M Tue Oct 27 14:22:07 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: H10229SP.RES

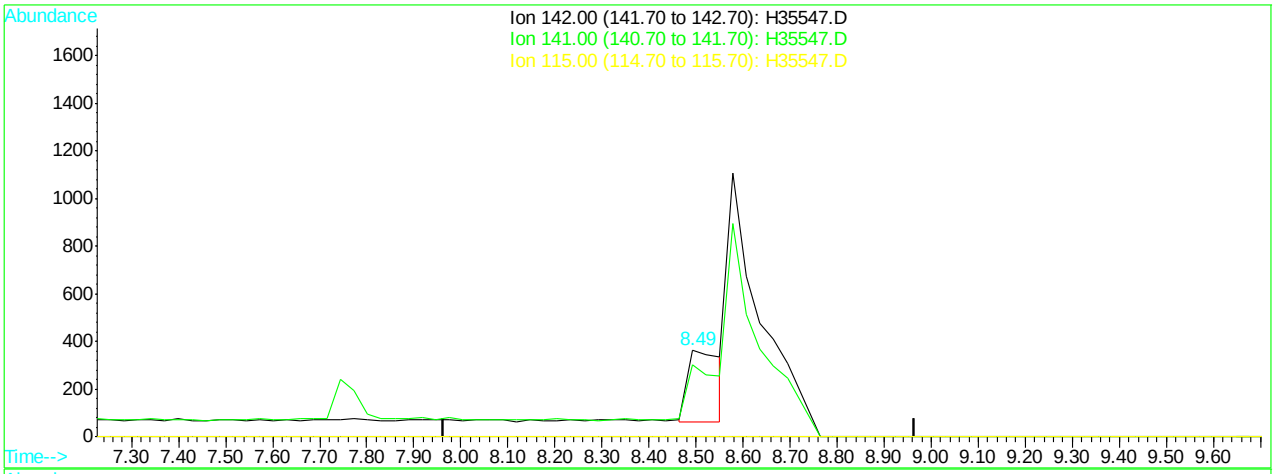
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

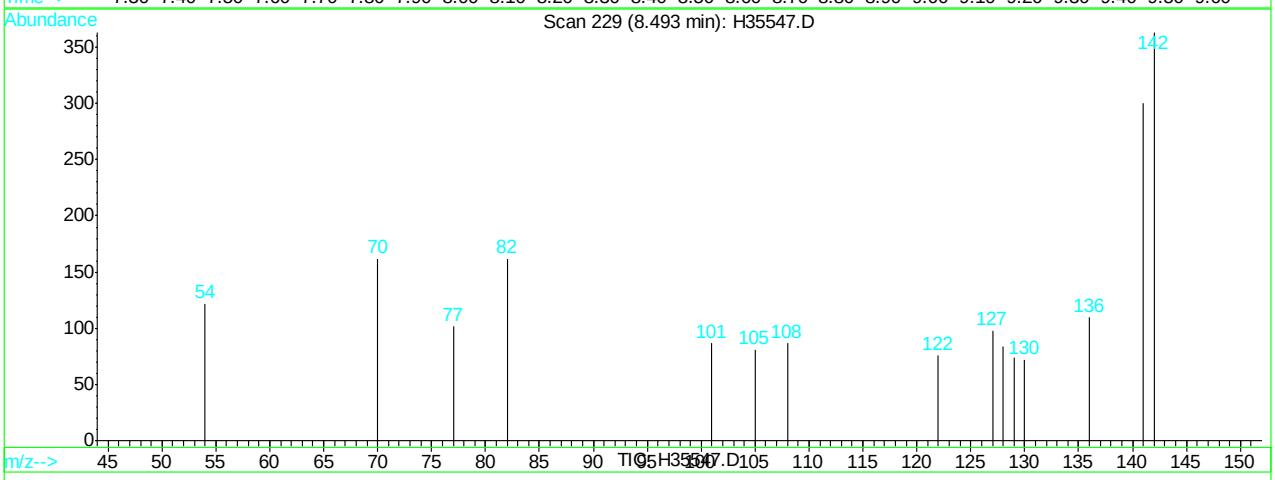


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.49min 0.10ppb m

response 1477

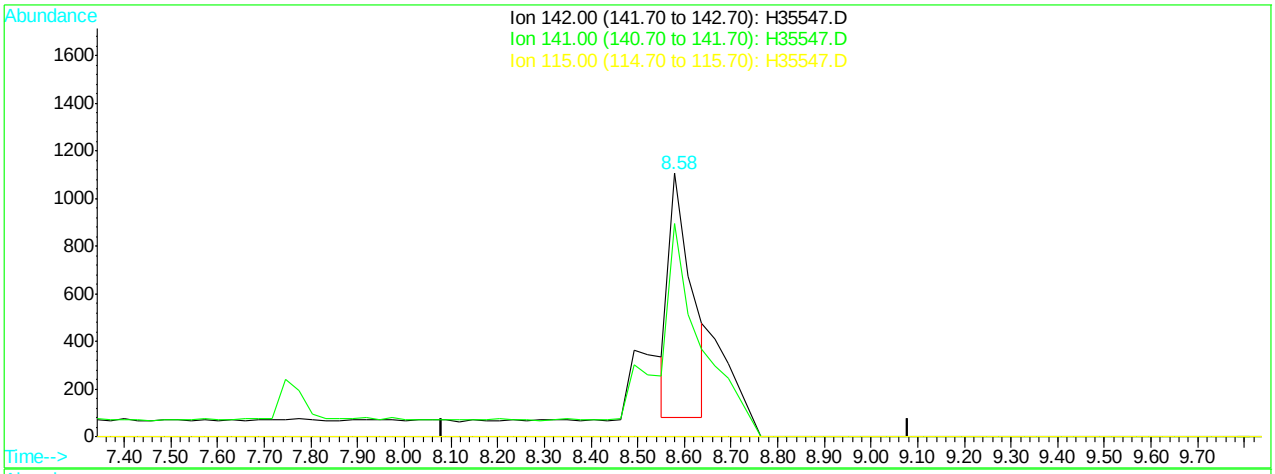
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	421.26#
115.00	0.00	0.00
0.00	0.00	0.00

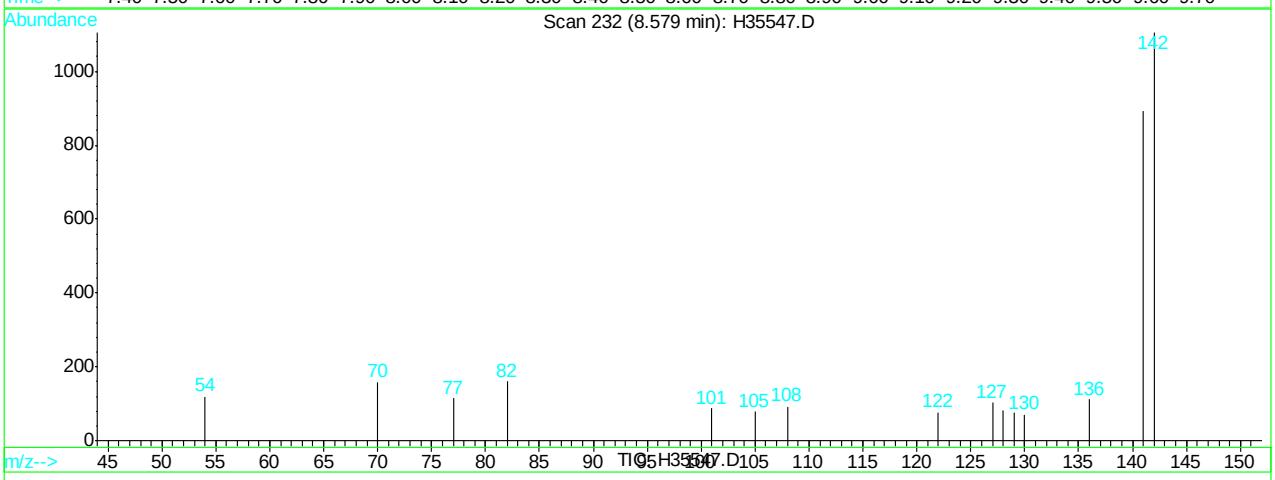
H35547.D H10269SP.M Tue Oct 27 14:25:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.21ppb m

response 3464

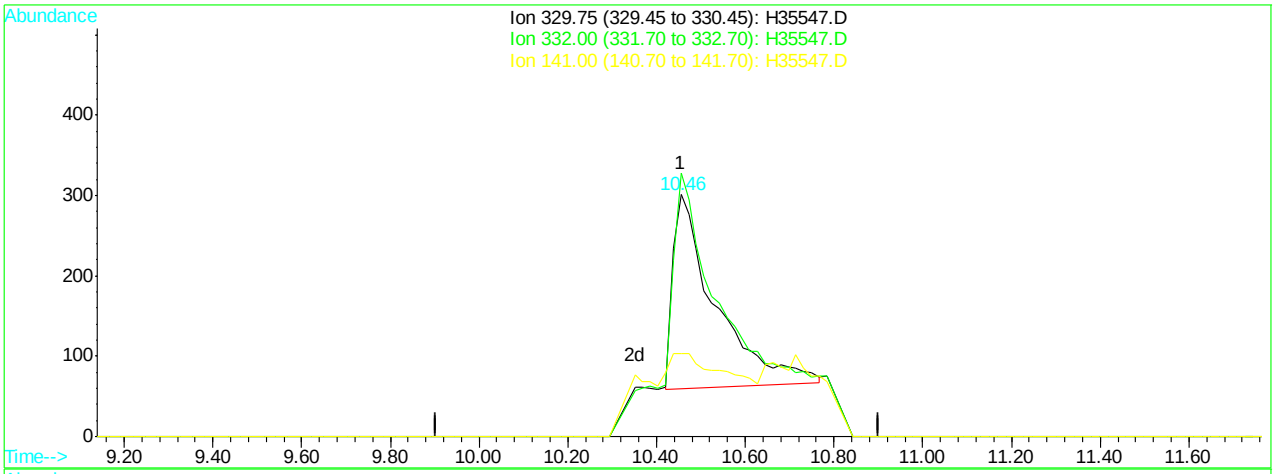
Ion	Exp%	Act%
142.00	100	100
141.00	90.30	179.62#
115.00	0.00	0.00
0.00	0.00	0.00

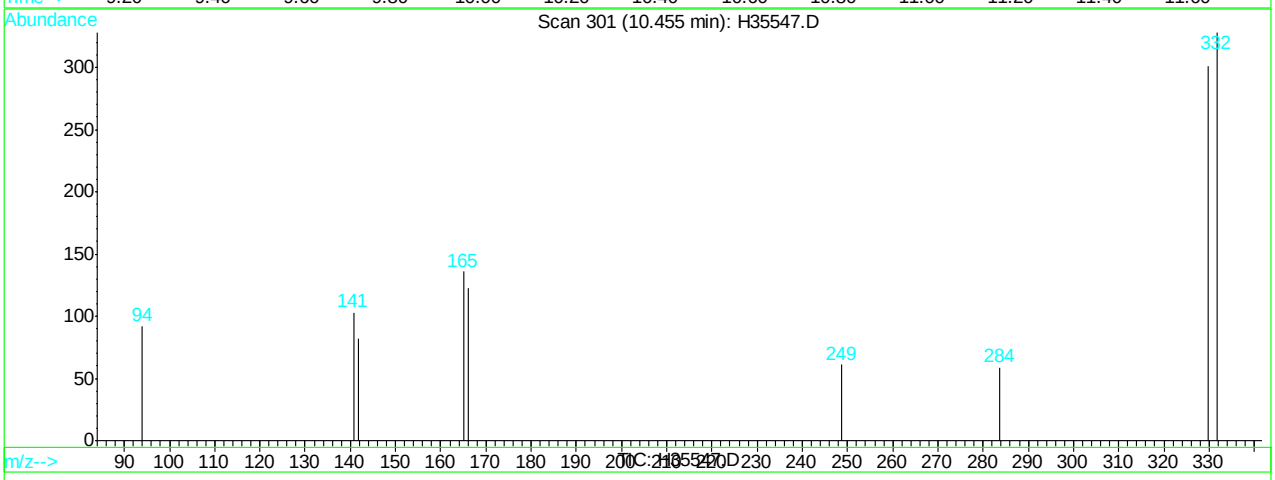
H35547.D H10269SP.M Tue Oct 27 14:25:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.46min 1.05ppb m

response 1639

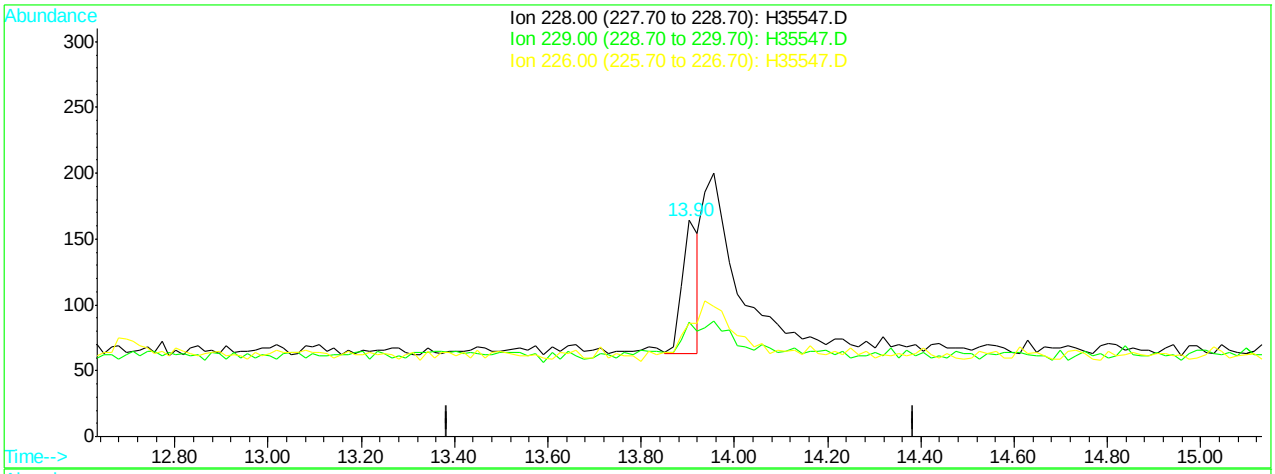
Ion	Exp%	Act%
329.75	100	100
332.00	98.20	246.67#
141.00	18.20	36.12#
0.00	0.00	0.00

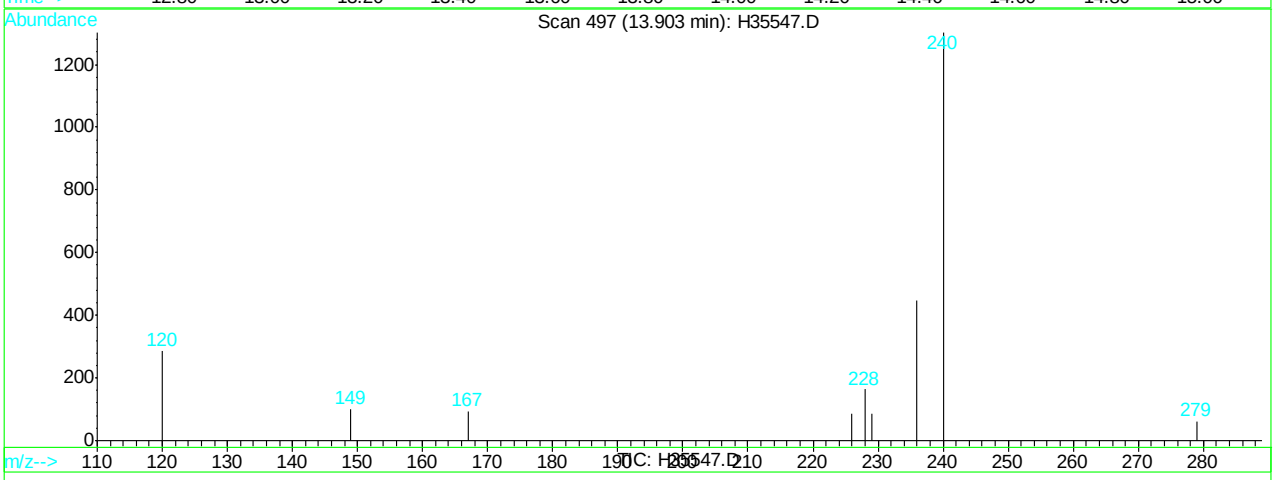
H35547.D H10269SP.M Tue Oct 27 14:25:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.11ppb m

response 257

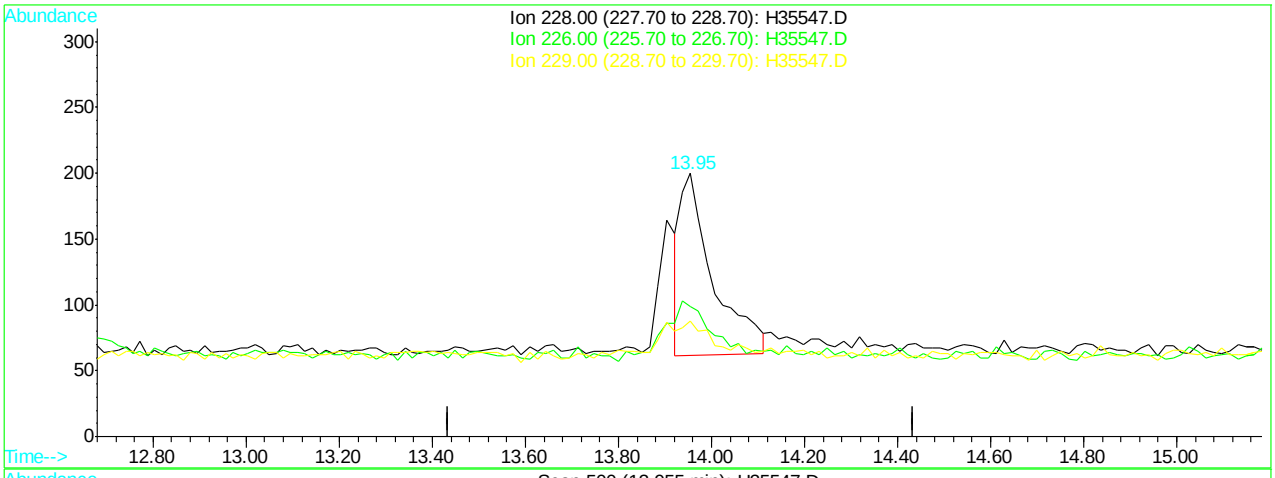
Ion	Exp%	Act%
228.00	100	100
229.00	19.00	53.05#
226.00	28.70	52.44#
0.00	0.00	0.00

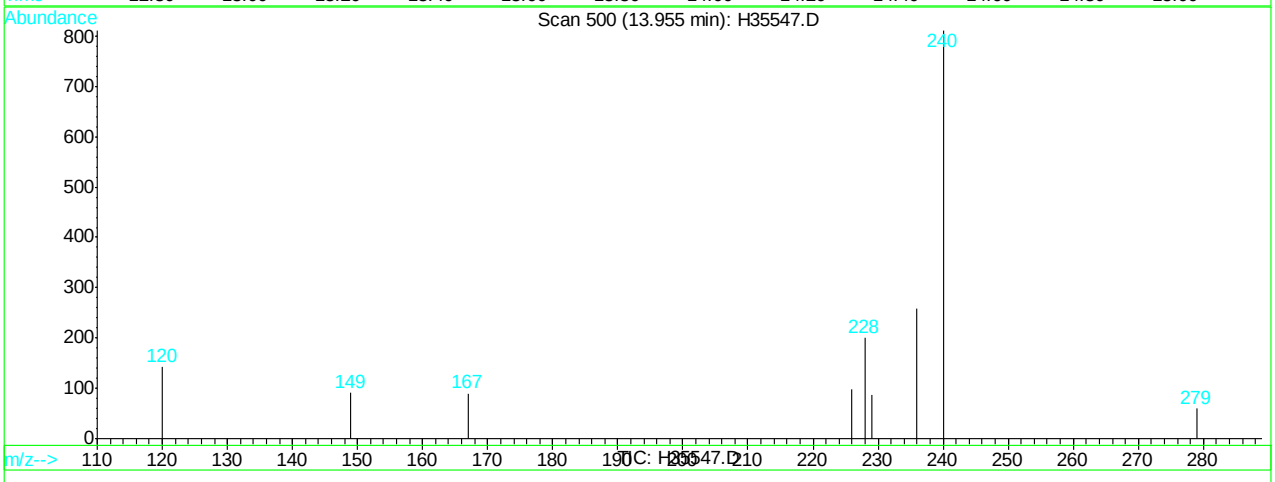
H35547.D H10269SP.M Tue Oct 27 14:25:15 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.21ppb m

response 679

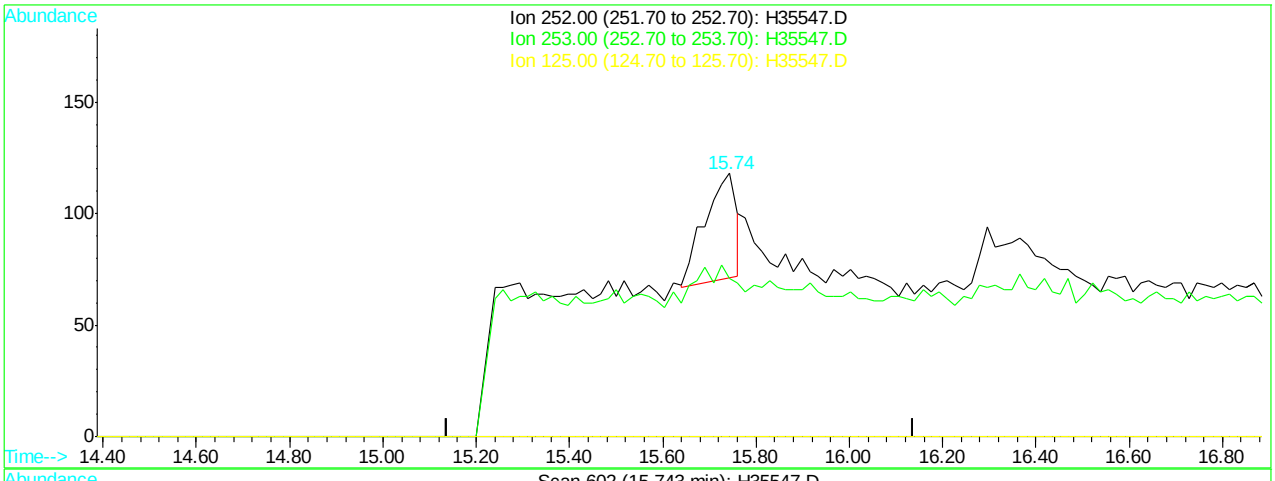
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	49.50#
229.00	18.40	44.00#
0.00	0.00	0.00

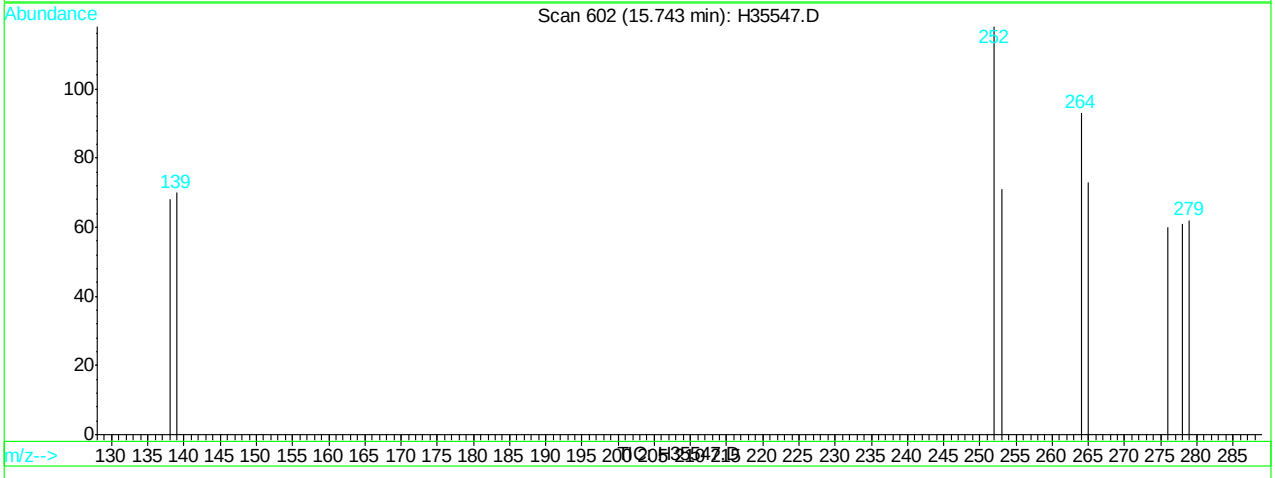
H35547.D H10269SP.M Tue Oct 27 14:25:19 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.74min 0.18ppb m

response 228

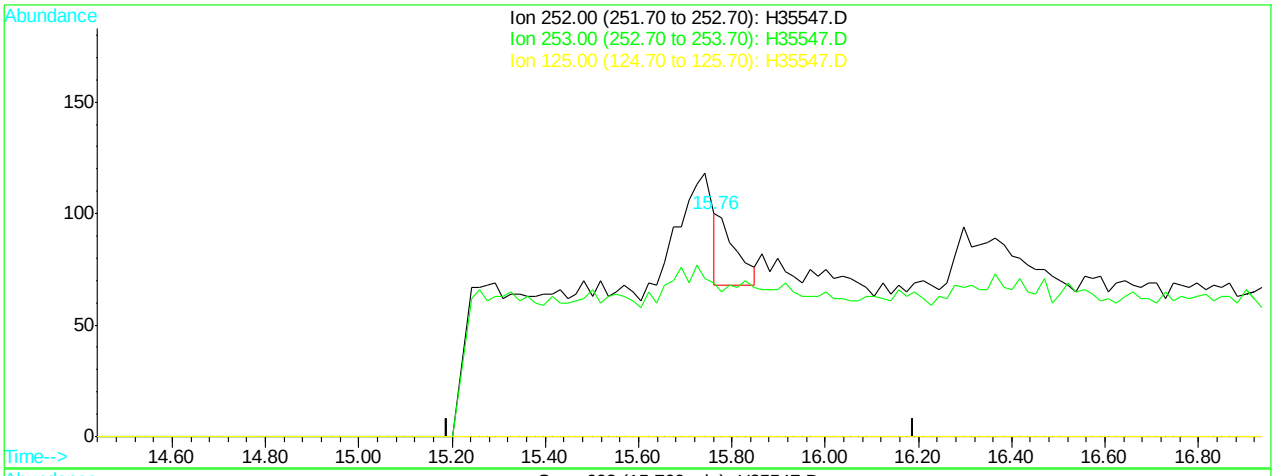
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	60.17#
125.00	0.00	0.00
0.00	0.00	0.00

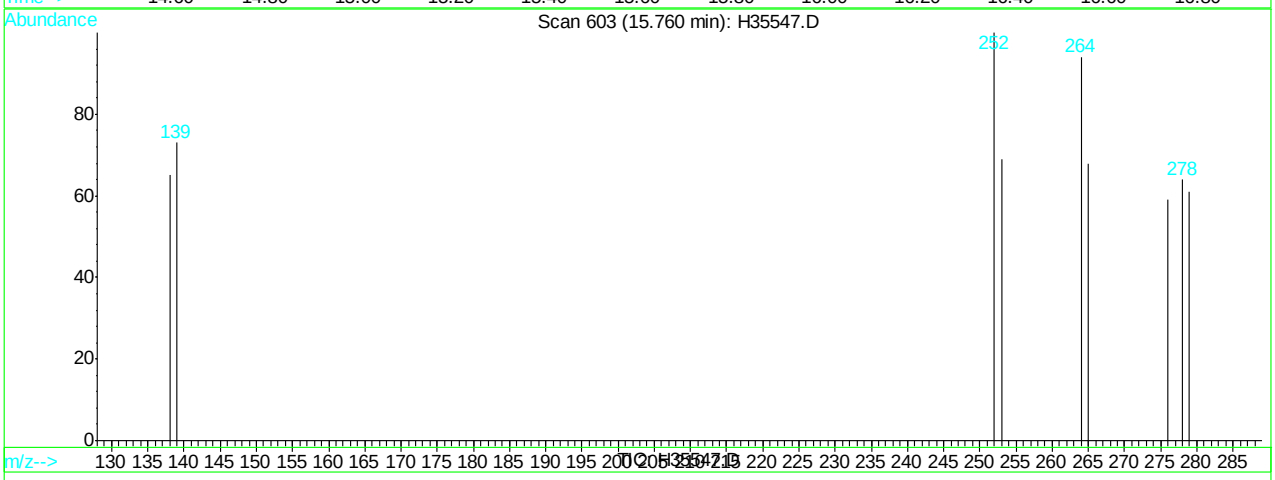
H35547.D H10269SP.M Tue Oct 27 14:25:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.76min 0.04ppb m

response 85

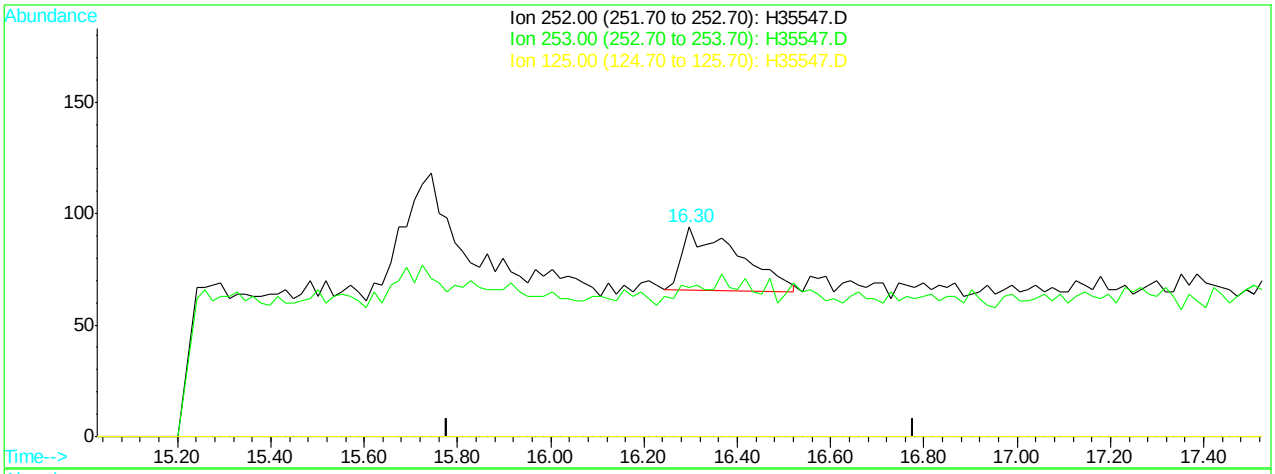
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	69.00#
125.00	0.00	0.00
0.00	0.00	0.00

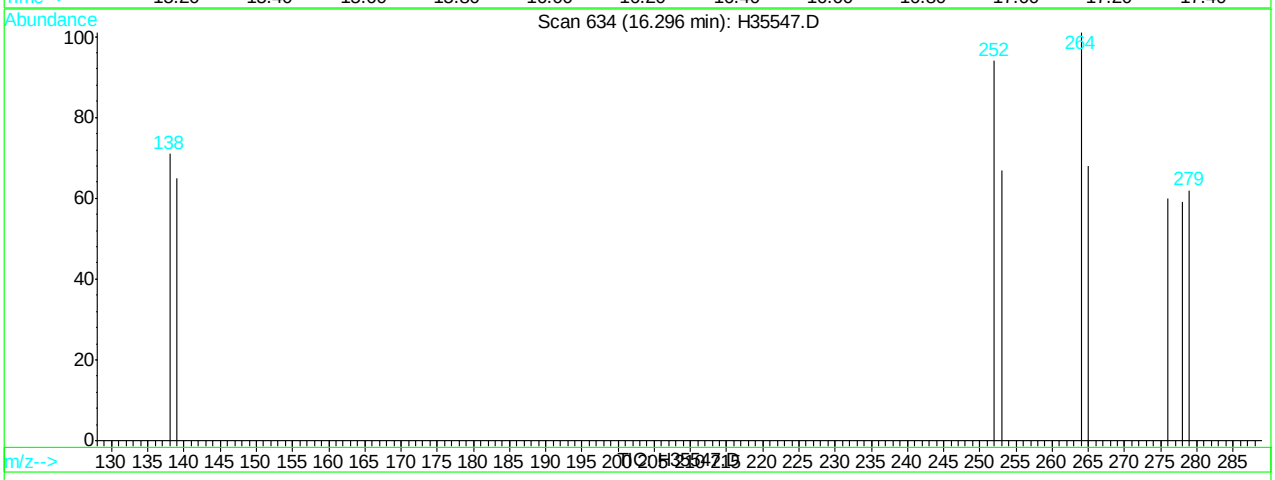
H35547.D H10269SP.M Tue Oct 27 14:25:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(29) Benzo[a]pyrene (T)

16.30min 0.19ppb m

response 244

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	71.28#
125.00	0.00	0.00
0.00	0.00	0.00

H35547.D H10269SP.M Tue Oct 27 14:25:34 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:00:47 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	70748	4.00 ppb	0.00
4) Naphthalene-d8	7.54	136	40574	4.00 ppb	-0.01
9) Acenaphthene-d10	9.57	164	39899	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	79090	4.00 ppb	0.00
21) Chrysene-d12	13.88	240	15197	4.00 ppb	0.00
26) Perylene-d12	16.37	264	4572	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	224065	128.77 ppb	0.02
Spiked Amount 5.000	Range 17 - 131		Recovery	= 2575.40%#	
10) 2-Fluorobiphenyl	8.87	172	1547524	57.57 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1151.40%#	
16) 2,4,6-Tribromophenol	10.40	330	290251	112.59 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 1125.90%#	
23) Terphenyl-d14	12.66	244	262974	91.16 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1823.20%#	

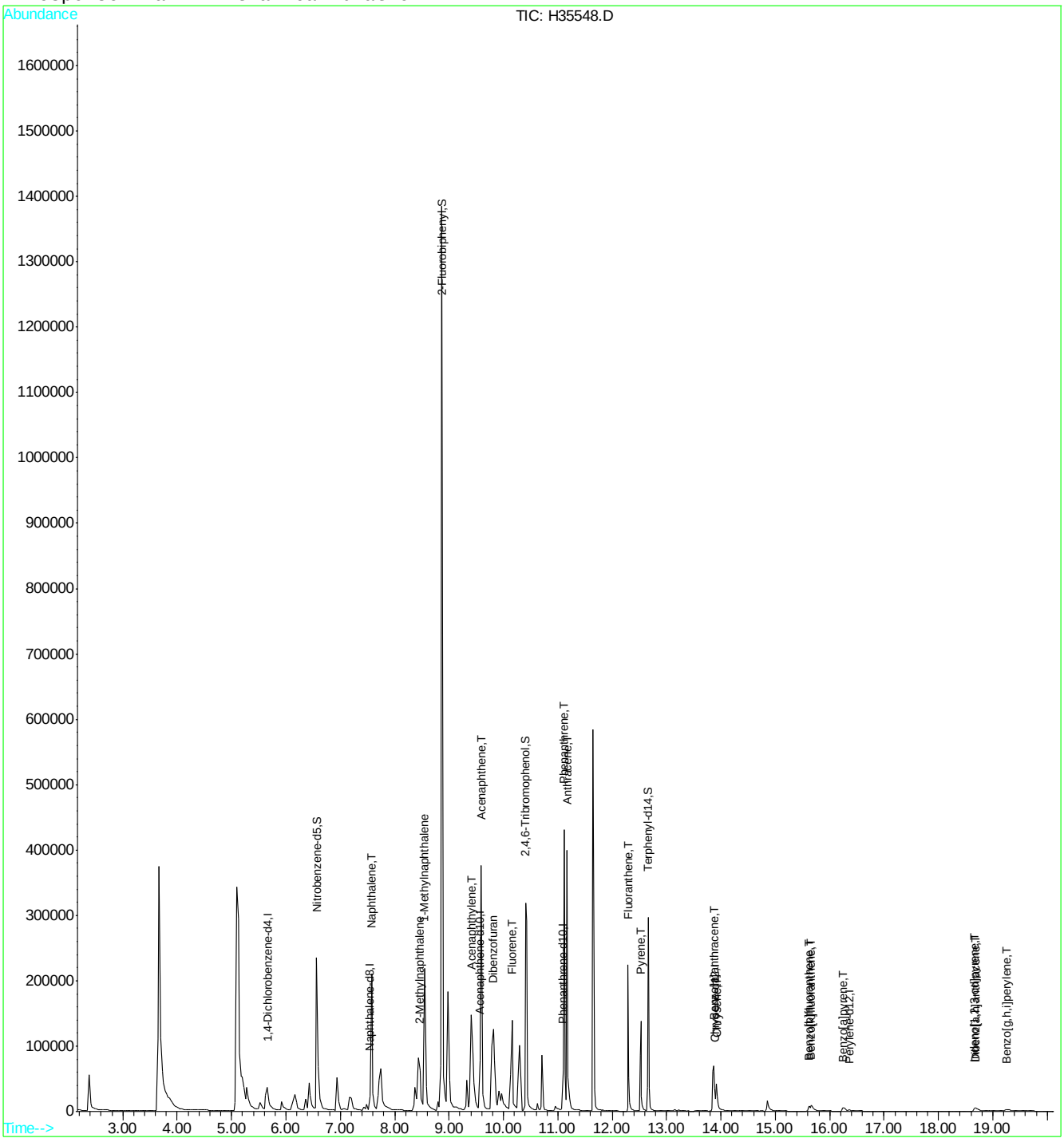
Target Compounds						Qvalue
6) Naphthalene	7.57	128	283047	27.90 ppb		93
7) 2-Methylnaphthalene	8.46	142	151932m	15.00 ppb		
8) 1-Methylnaphthalene	8.55	142	279197	20.95 ppb	#	70
11) Acenaphthylene	9.41	152	240445	10.72 ppb		92
12) Acenaphthene	9.60	153	247852	10.87 ppb	#	76
13) Dibenzofuran	9.81	168	192973	10.29 ppb	#	79
14) Fluorene	10.16	166	129012	12.36 ppb		93
18) Phenanthrene	11.11	178	393852	10.36 ppb		96
19) Anthracene	11.17	178	407363	10.34 ppb		99
20) Fluoranthene	12.29	202	269709	8.00 ppb		99
22) Pyrene	12.53	202	228784	16.69 ppb		100
24) Benzo[a]anthracene	13.87	228	57043	11.56 ppb		95
25) Chrysene	13.92	228	58879	9.69 ppb		97
27) Benzo[b]fluoranthene	15.62	252	17407	10.91 ppb		97
28) Benzo[k]fluoranthene	15.66	252	27336m	10.34 ppb		
29) Benzo[a]pyrene	16.24	252	17990	12.13 ppb		98
30) Indeno[1,2,3-cd]pyrene	18.67	276	13317	19.41 ppb		99
31) Dibenz[a,h]anthracene	18.68	278	9594	21.92 ppb		92
32) Benzo[g,h,i]perylene	19.25	276	11119	18.59 ppb		94

(#) = qualifier out of range (m) = manual integration
H35548.D H10269SP.M Tue Oct 27 14:25:41 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: H10229SP.RES

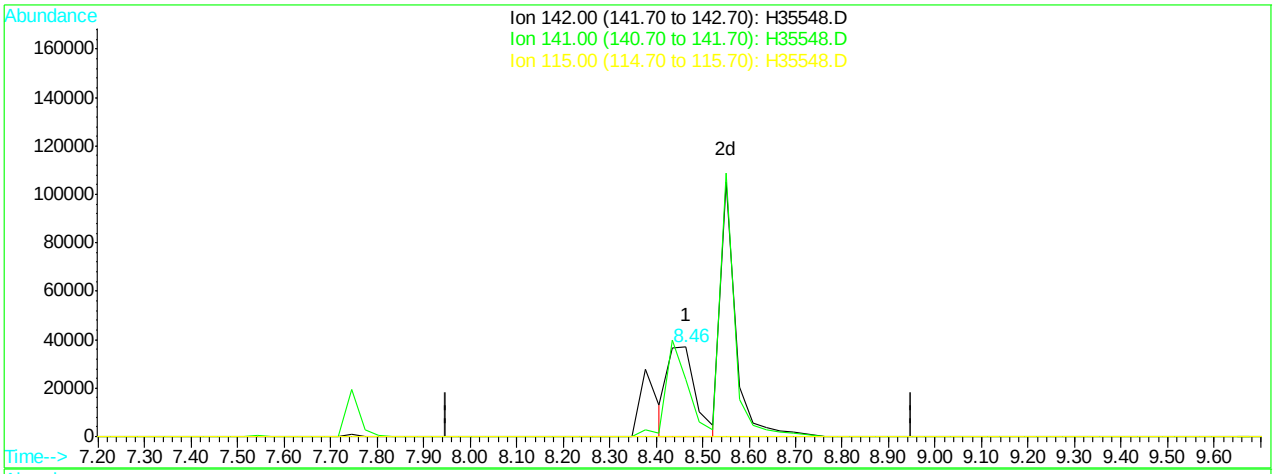
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

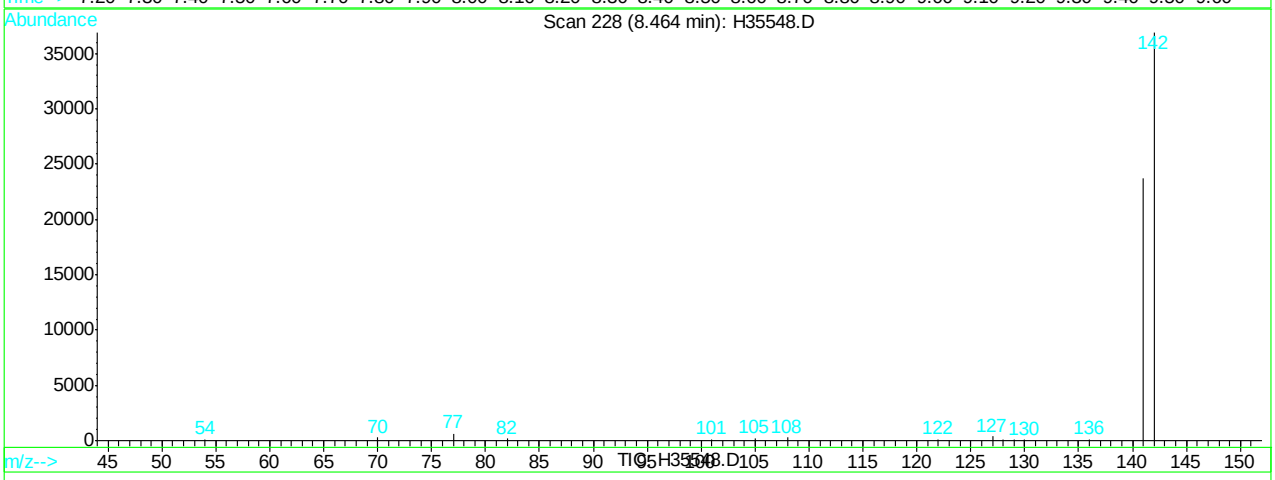


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 15.00ppb m

response 151932

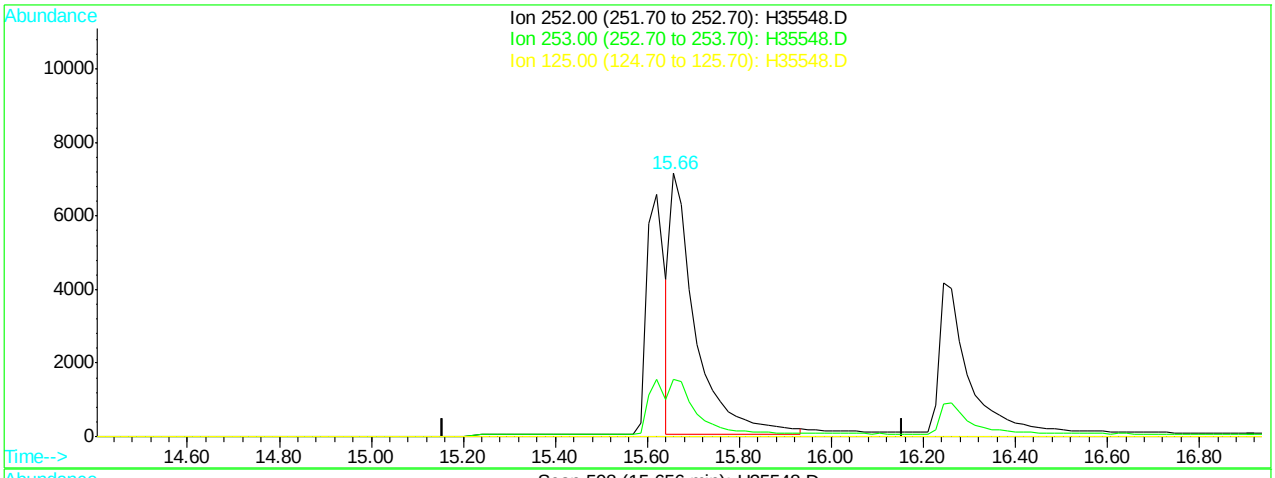
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	86.79
115.00	0.00	0.00
0.00	0.00	0.00

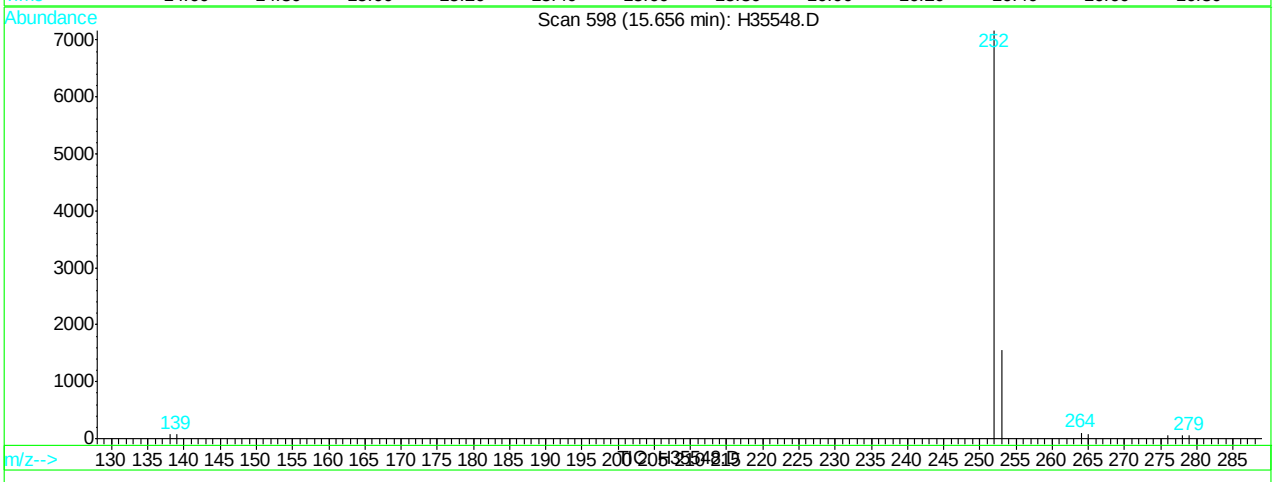
H35548.D H10269SP.M Tue Oct 27 14:25:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 10.34ppb m

response 27336

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.78
125.00	0.00	0.00
0.00	0.00	0.00

H35548.D H10269SP.M Tue Oct 27 14:26:03 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:00:47 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	72020	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	49085	4.00	ppb	-0.01
9) Acenaphthene-d10	9.57	164	45348	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	72574	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10705	4.00	ppb	0.02
26) Perylene-d12	16.37	264	3696	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	94739	45.01	ppb	0.02
Spiked Amount 5.000	Range 17 - 131		Recovery = 900.20%#			
10) 2-Fluorobiphenyl	8.87	172	1016068	33.26	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 665.20%#			
16) 2,4,6-Tribromophenol	10.40	330	147470	62.34	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 623.40%#			
23) Terphenyl-d14	12.66	244	94419	46.47	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 929.40%#			

Target Compounds

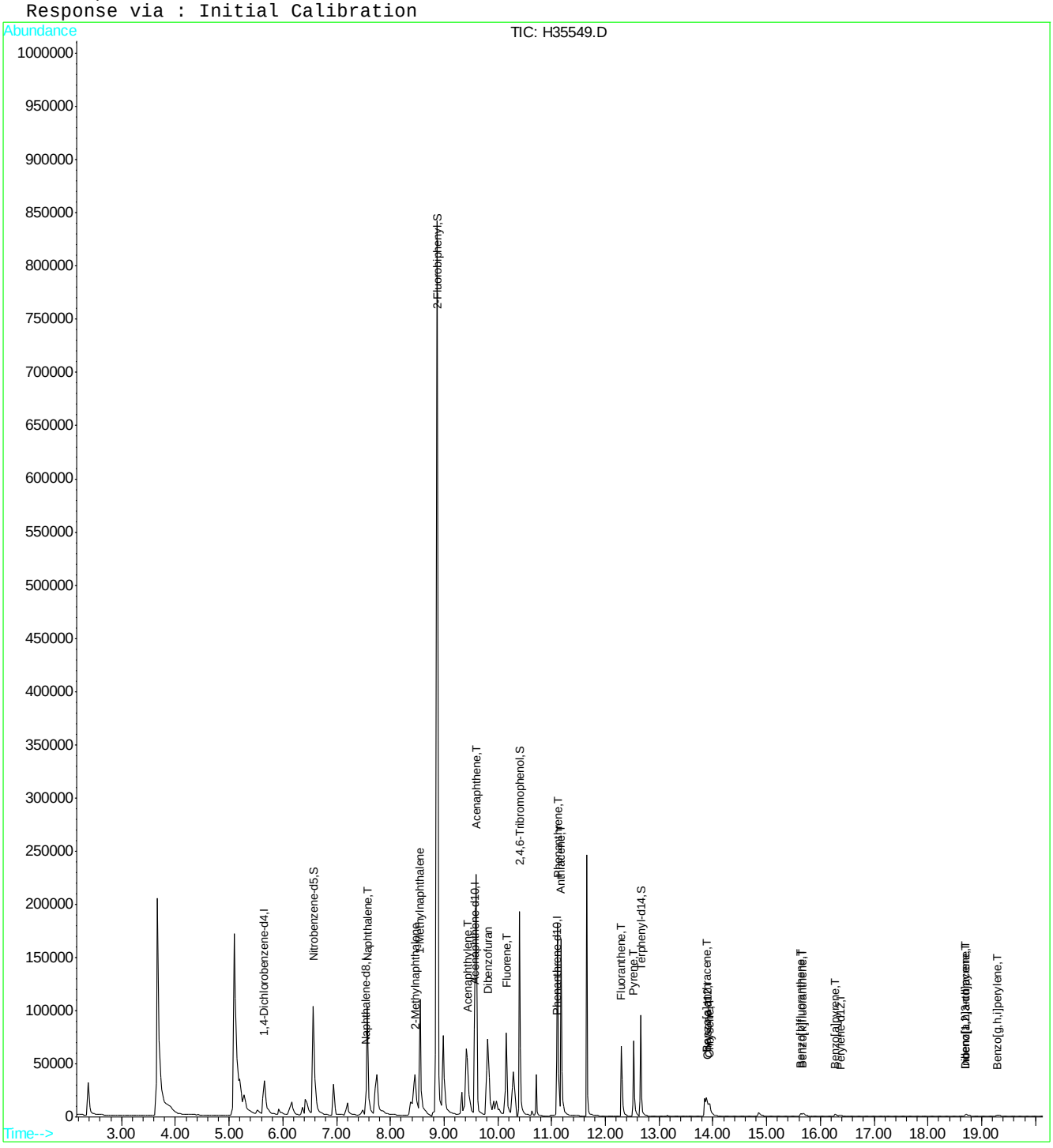
							Qvalue
6) Naphthalene	7.57	128	137653	11.22	ppb	#	87
7) 2-Methylnaphthalene	8.47	142	84125m	6.86	ppb		
8) 1-Methylnaphthalene	8.55	142	151263	9.38	ppb	#	71
11) Acenaphthylene	9.43	152	123370m	4.84	ppb		
12) Acenaphthene	9.60	153	150952	5.82	ppb		82
13) Dibenzofuran	9.81	168	114187	5.36	ppb		96
14) Fluorene	10.16	166	71146	6.00	ppb		97
18) Phenanthrene	11.11	178	175311	5.02	ppb		95
19) Anthracene	11.17	178	198487	5.49	ppb		98
20) Fluoranthene	12.29	202	105972	3.42	ppb	#	91
22) Pyrene	12.53	202	96067	9.95	ppb		97
24) Benzo[a]anthracene	13.88	228	15282	4.40	ppb		97
25) Chrysene	13.94	228	24825m	5.80	ppb		
27) Benzo[b]fluoranthene	15.64	252	5793m	4.49	ppb		
28) Benzo[k]fluoranthene	15.67	252	10801m	5.06	ppb		
29) Benzo[a]pyrene	16.28	252	7011	5.85	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.70	276	5399	9.73	ppb		98
31) Dibenz[a,h]anthracene	18.70	278	3786	10.70	ppb		96
32) Benzo[g,h,i]perylene	19.29	276	4786	9.90	ppb		98

(#) = qualifier out of range (m) = manual integration
H35549.D H10269SP.M Tue Oct 27 14:26:14 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

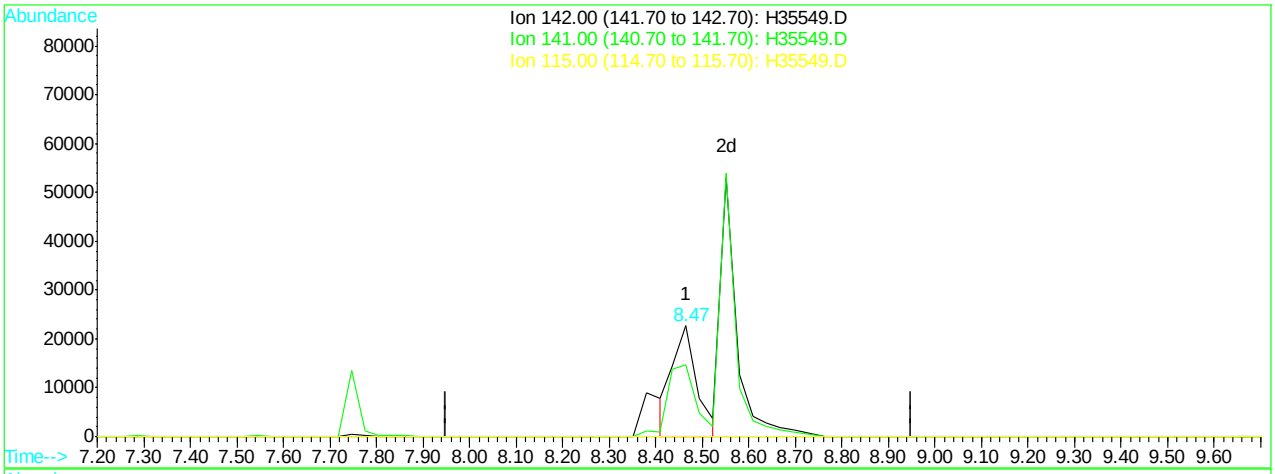


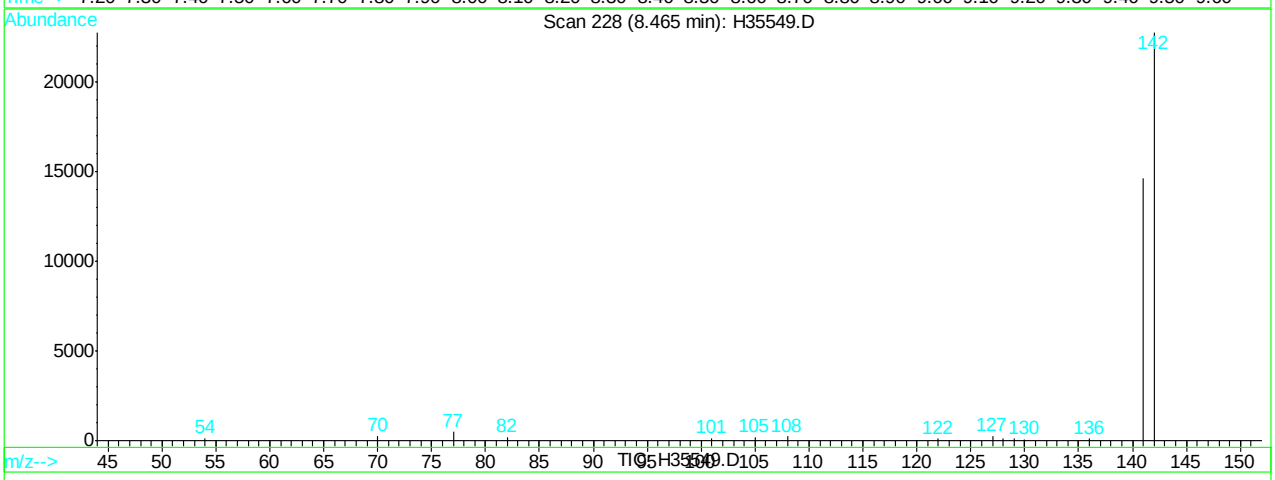
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 6.86ppb m

response 84125

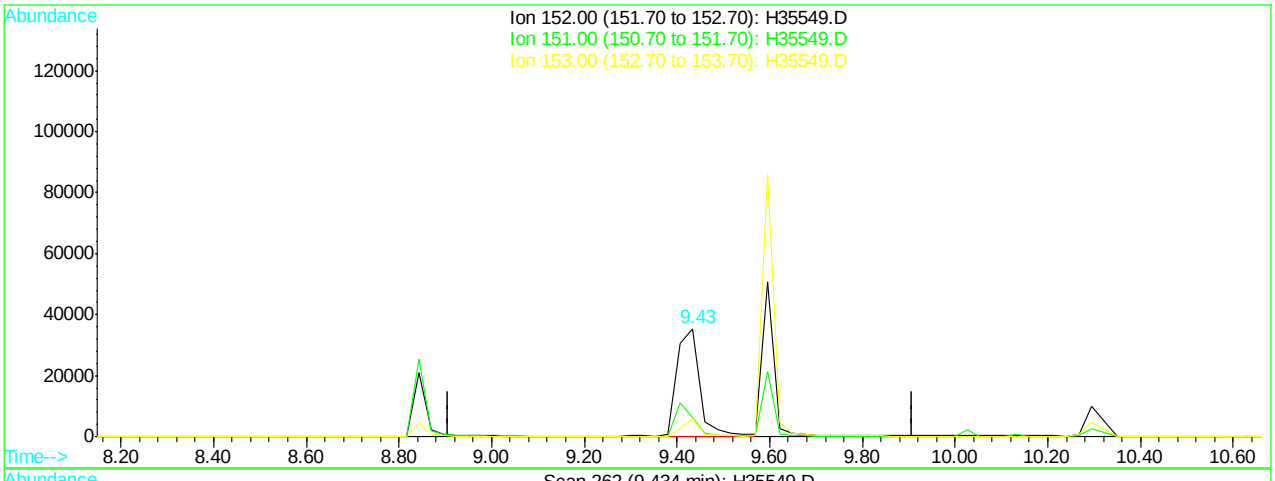
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	71.54
115.00	0.00	0.00
0.00	0.00	0.00

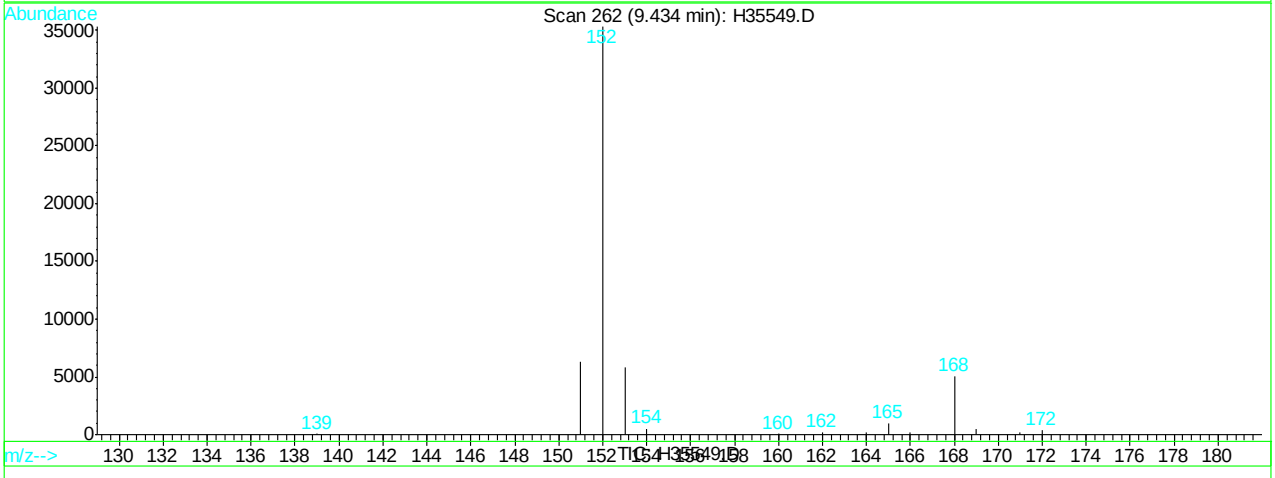
H35549.D H10269SP.M Tue Oct 27 14:26:35 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(11) Acenaphthylene (T)

9.43min 4.84ppb m

response 123370

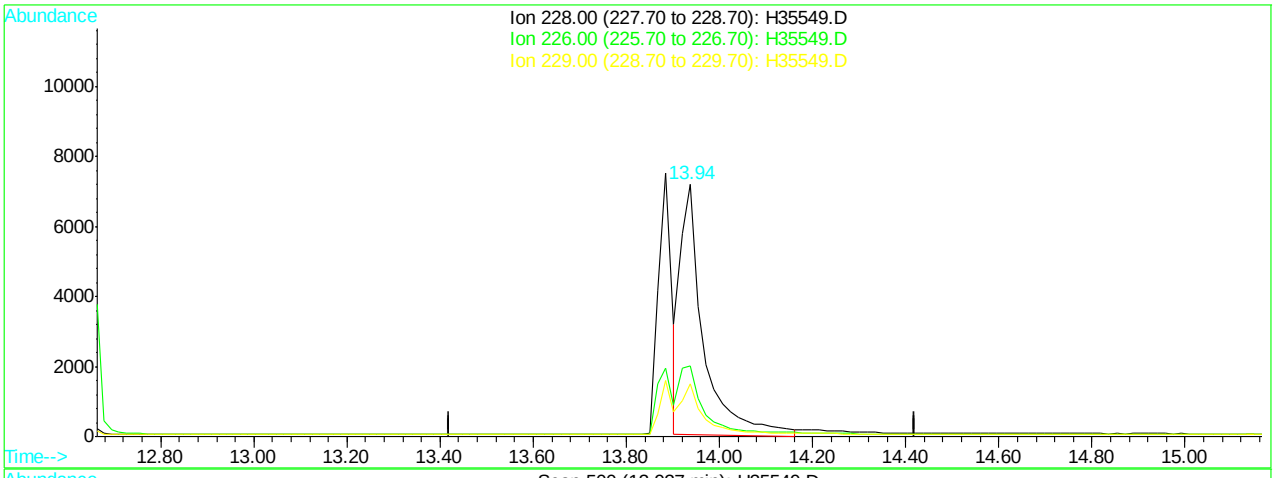
Ion	Exp%	Act%
152.00	100	100
151.00	29.50	17.76#
153.00	9.30	16.38#
0.00	0.00	0.00

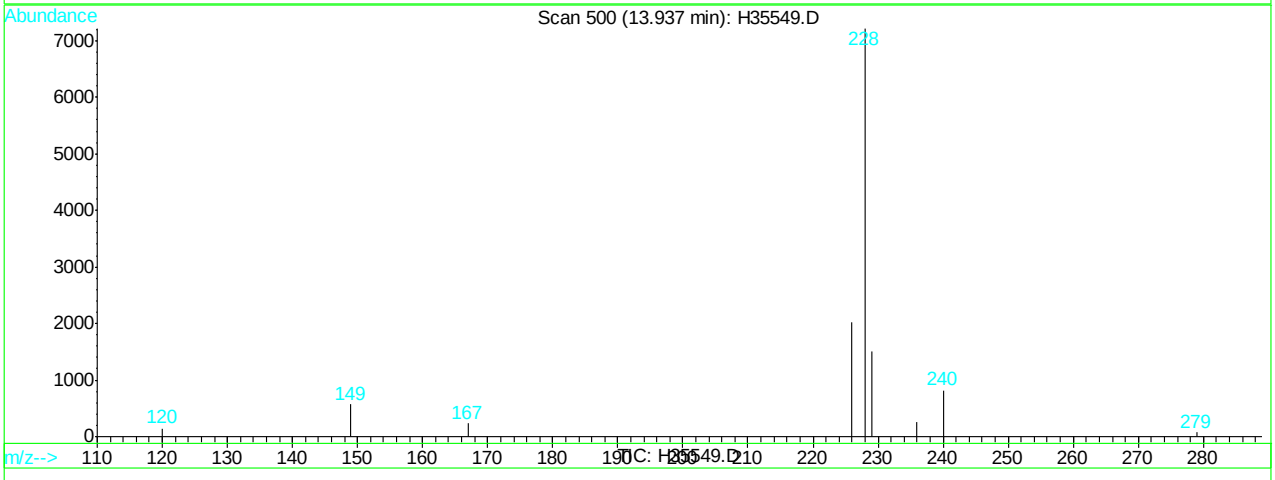
H35549.D H10269SP.M Tue Oct 27 14:26:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 5.80ppb m

response 24825

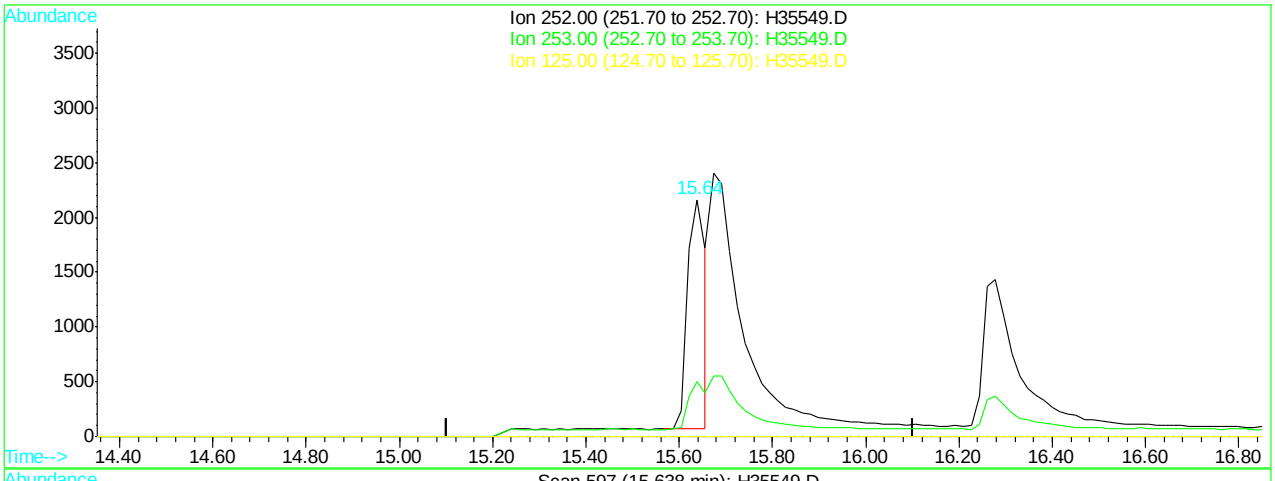
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	27.99
229.00	20.90	20.93
0.00	0.00	0.00

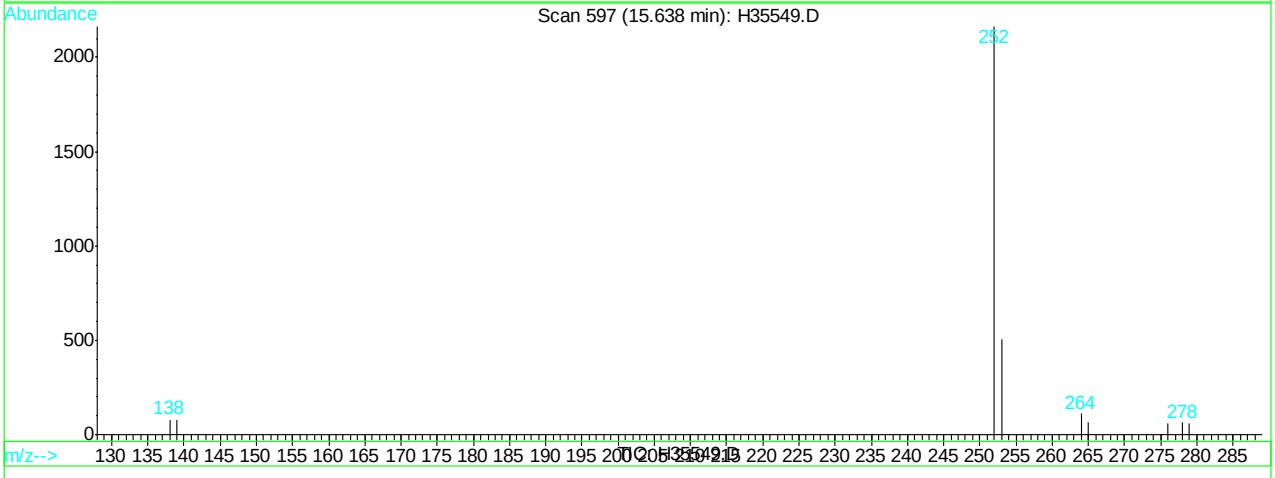
H35549.D H10269SP.M Tue Oct 27 14:26:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 4.49ppb m

response 5793

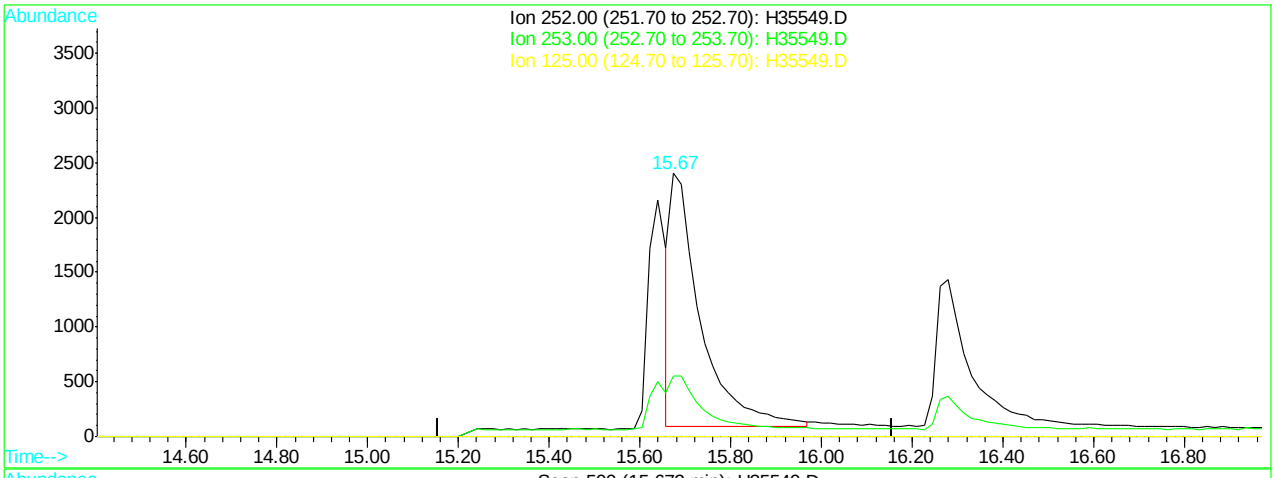
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	23.44
125.00	0.00	0.00
0.00	0.00	0.00

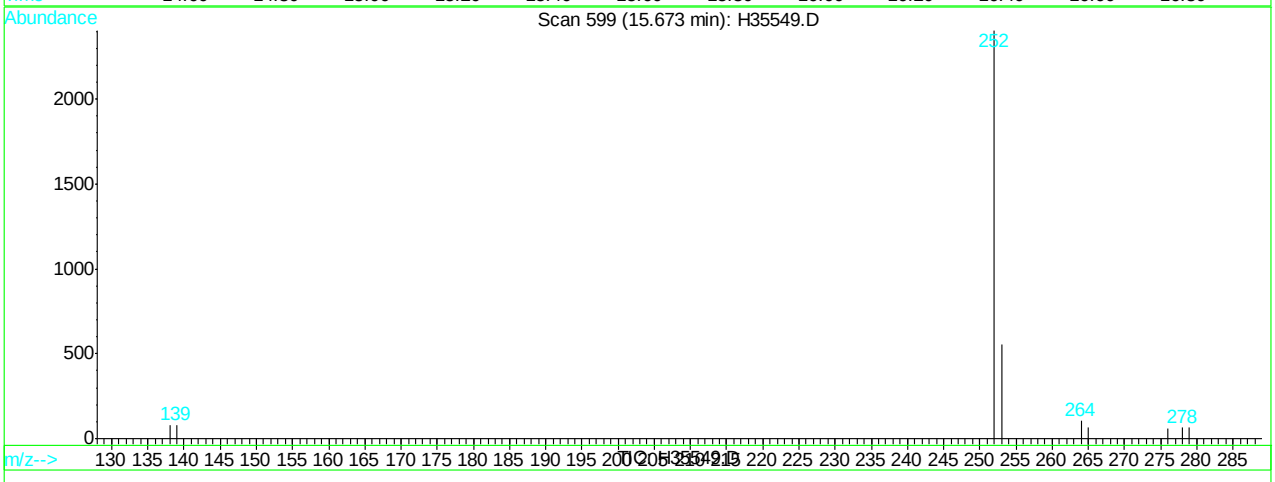
H35549.D H10269SP.M Tue Oct 27 14:26:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 5.06ppb m

response 10801

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	23.00
125.00	0.00	0.00
0.00	0.00	0.00

H35549.D H10269SP.M Tue Oct 27 14:26:51 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 15:05:12 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	71352	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	45874	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	47140	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	61620	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	12651	4.00	ppb	0.00
26) Perylene-d12	16.36	264	6928	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	49457	14.80	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 296.00%#			
10) 2-Fluorobiphenyl	8.87	172	510597	11.94	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 238.80%#			
16) 2,4,6-Tribromophenol	10.40	330	62182	32.90	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 329.00%#			
23) Terphenyl-d14	12.66	244	36529	11.59	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 231.80%#			

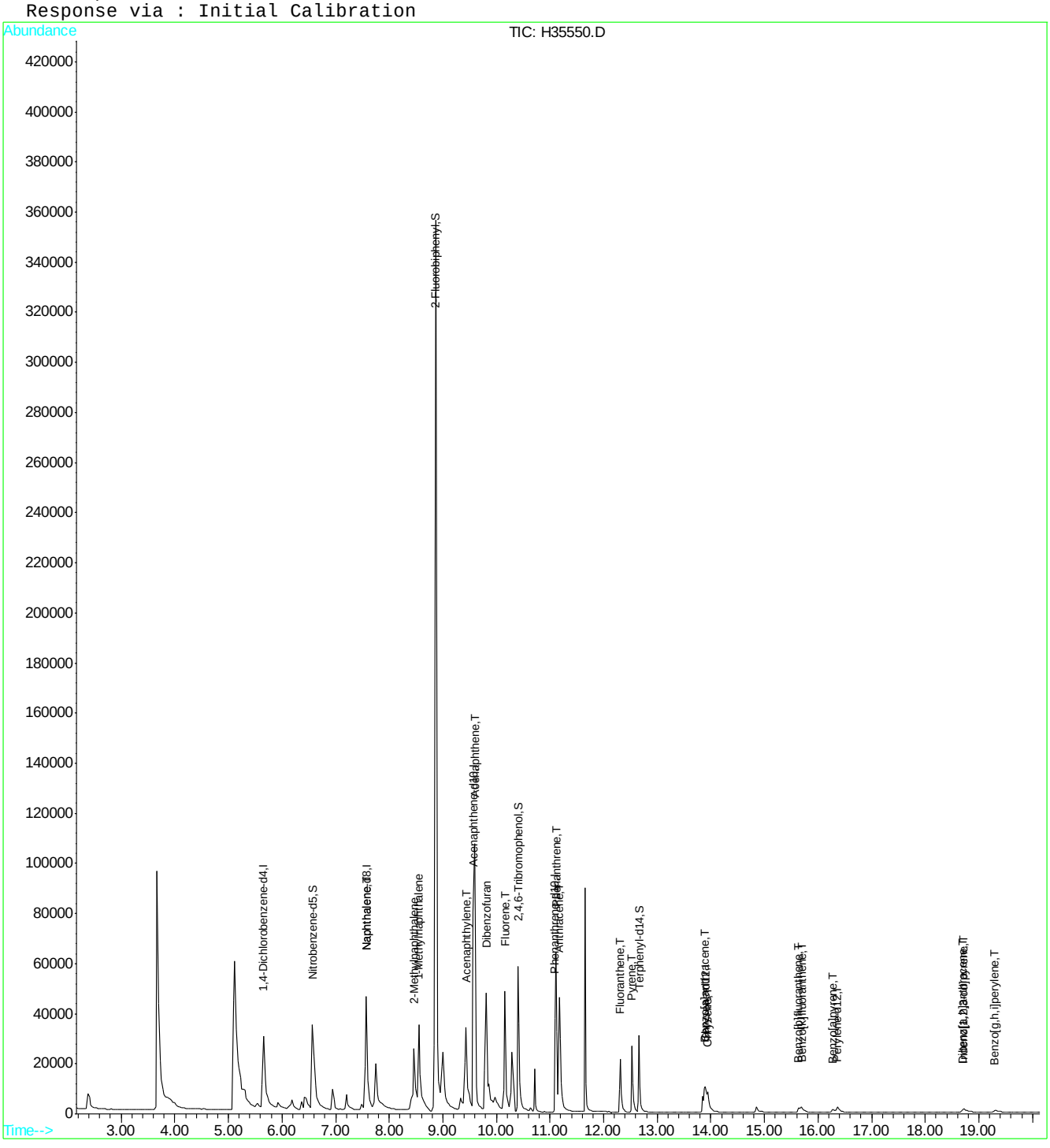
Target Compounds							Qvalue
6) Naphthalene	7.57	128	62581	2.64	ppb		95
7) 2-Methylnaphthalene	8.47	142	38783m	2.25	ppb		
8) 1-Methylnaphthalene	8.55	142	63127	2.43	ppb	#	53
11) Acenaphthylene	9.43	152	57505	1.85	ppb		98
12) Acenaphthene	9.60	153	71900	2.54	ppb		86
13) Dibenzofuran	9.81	168	79168	2.45	ppb		90
14) Fluorene	10.16	166	43085	2.35	ppb		100
18) Phenanthrene	11.11	178	69637	2.40	ppb		98
19) Anthracene	11.17	178	81751	2.44	ppb		99
20) Fluoranthene	12.31	202	40916	2.53	ppb		99
22) Pyrene	12.53	202	45573	2.18	ppb		98
24) Benzo[a]anthracene	13.88	228	10119m	2.36	ppb		
25) Chrysene	13.94	228	12866m	2.04	ppb		
27) Benzo[b]fluoranthene	15.64	252	3969m	1.56	ppb		
28) Benzo[k]fluoranthene	15.69	252	8833m	2.60	ppb		
29) Benzo[a]pyrene	16.28	252	5774	2.49	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.72	276	4712	3.55	ppb		88
31) Dibenz[a,h]anthracene	18.70	278	3236	2.97	ppb		96
32) Benzo[g,h,i]perylene	19.29	276	4243	3.31	ppb		96

(#) = qualifier out of range (m) = manual integration
H35550.D H10269SP.M Tue Oct 27 14:26:57 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: H10229SP.RES

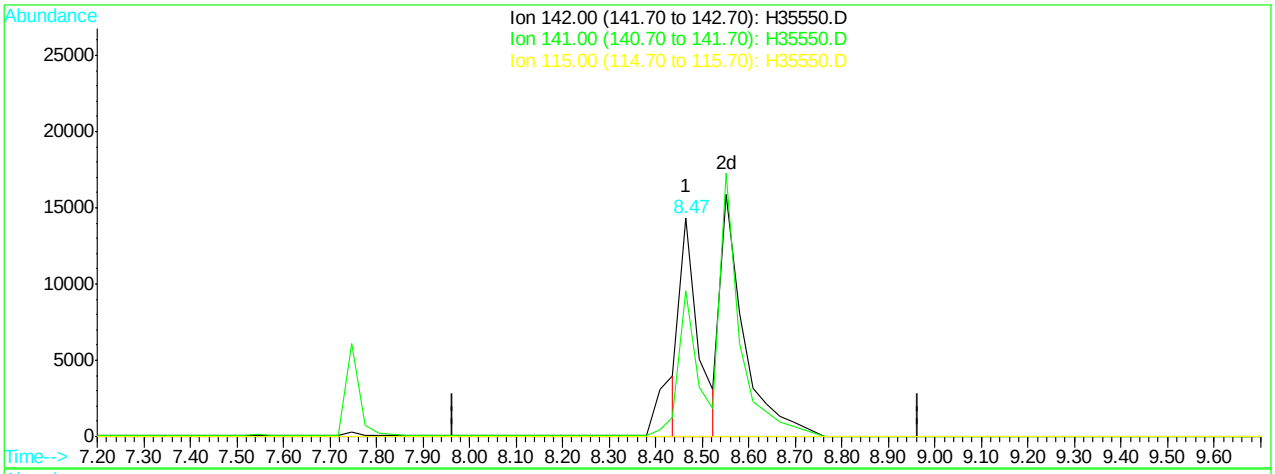
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

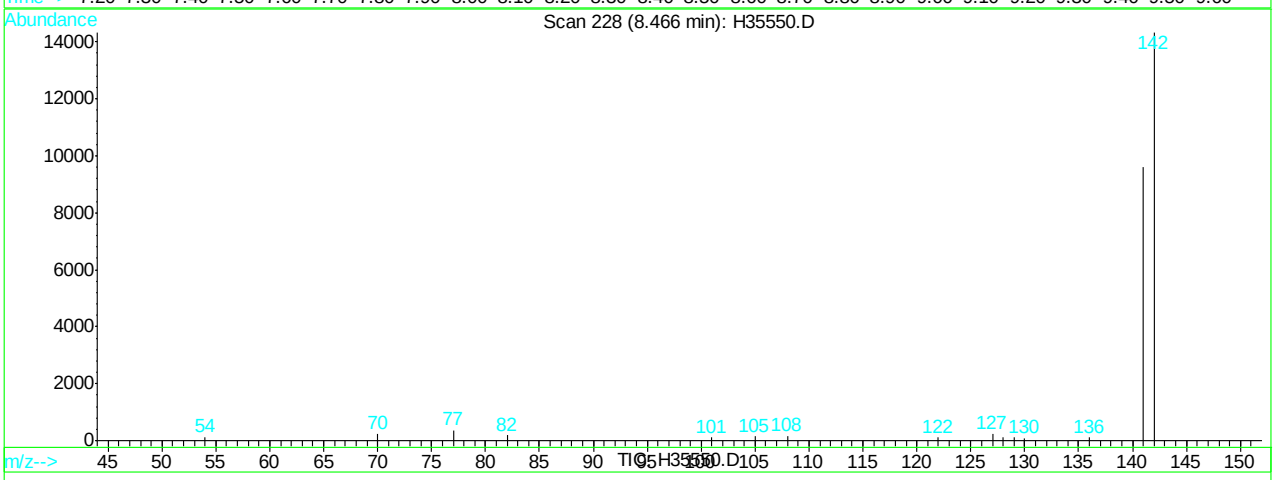


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 2.25ppb m

response 38783

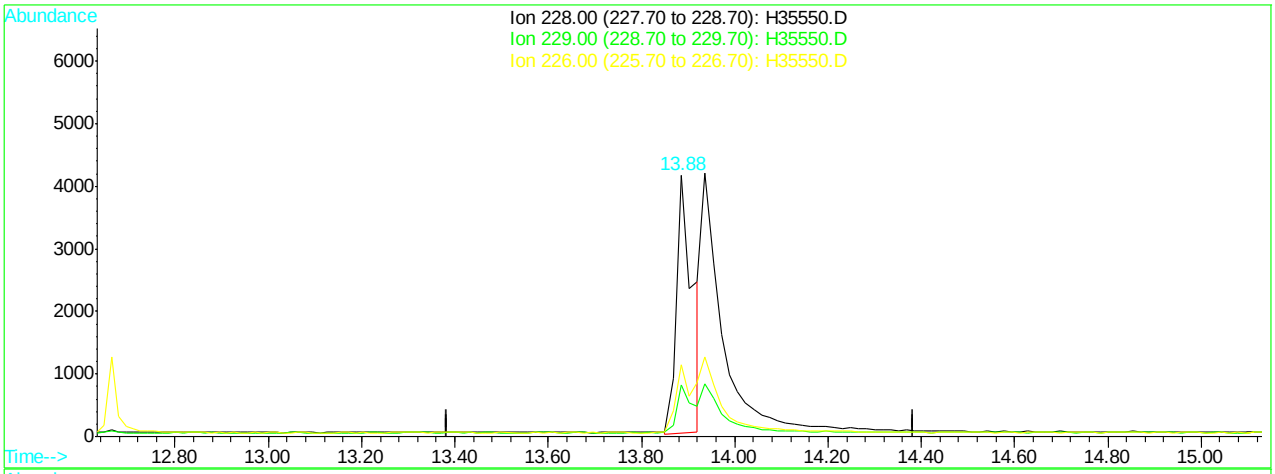
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	0.00#
115.00	0.00	0.00
0.00	0.00	0.00

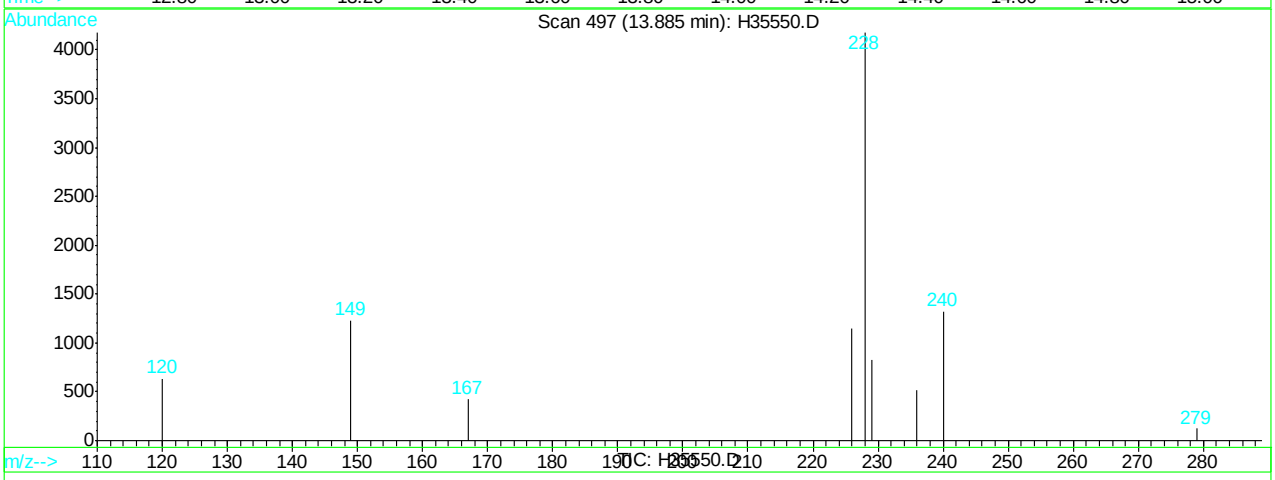
H35550.D H10269SP.M Tue Oct 27 14:27:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 2.36ppb m

response 10119

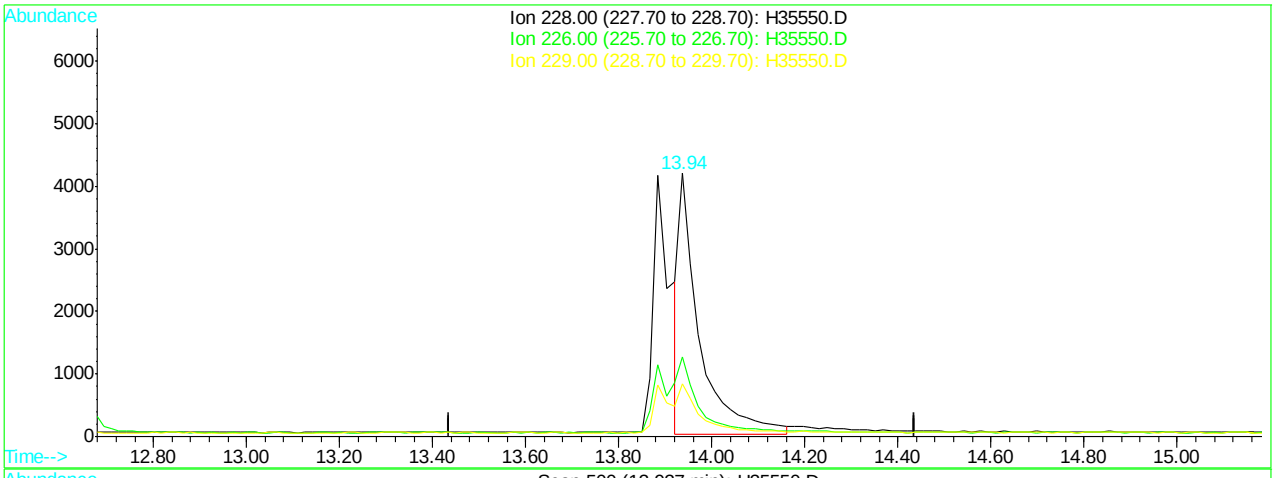
Ion	Exp%	Act%
228.00	100	100
229.00	19.00	19.80
226.00	28.70	27.44
0.00	0.00	0.00

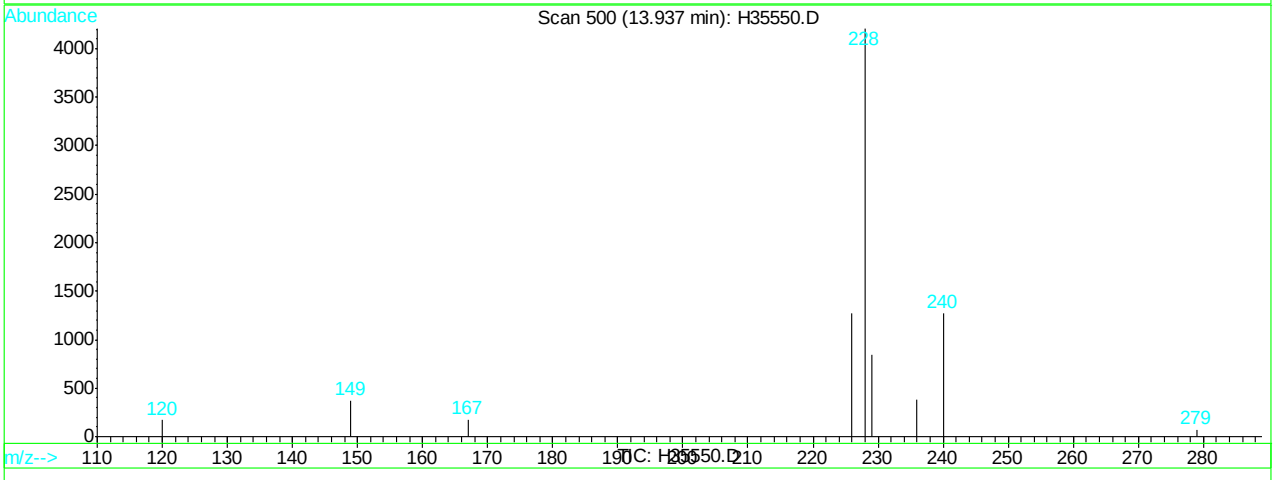
H35550.D H10269SP.M Tue Oct 27 14:27:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.04ppb m

response 12866

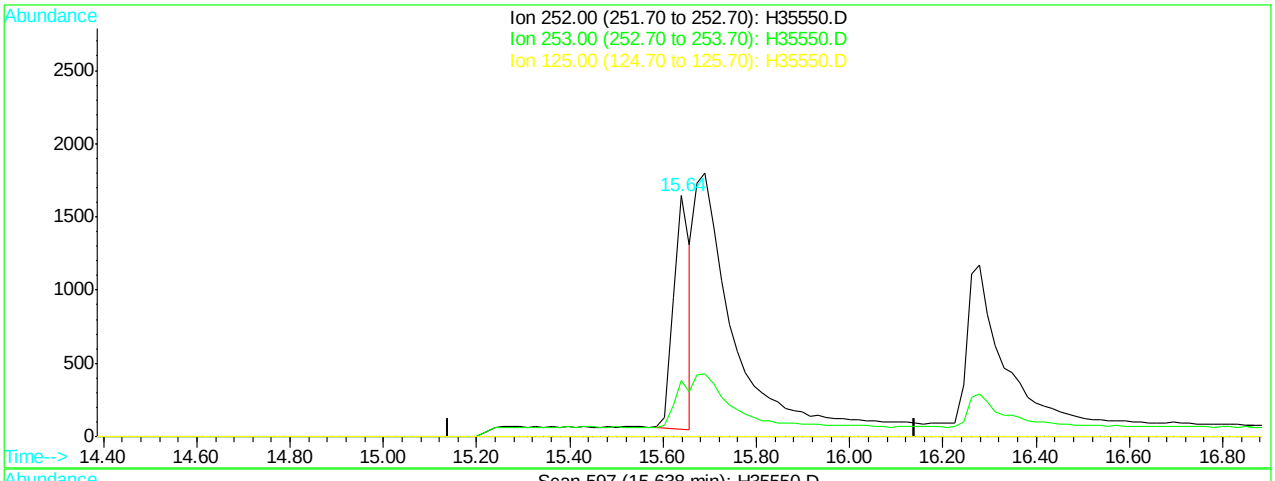
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	30.09
229.00	18.40	20.16
0.00	0.00	0.00

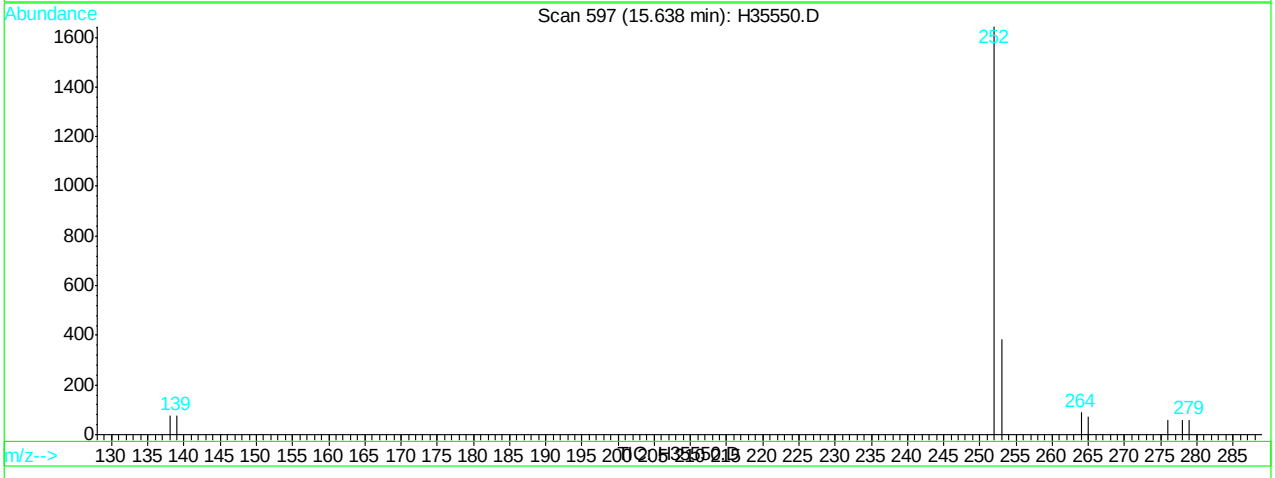
H35550.D H10269SP.M Tue Oct 27 14:27:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 1.56ppb m

response 3969

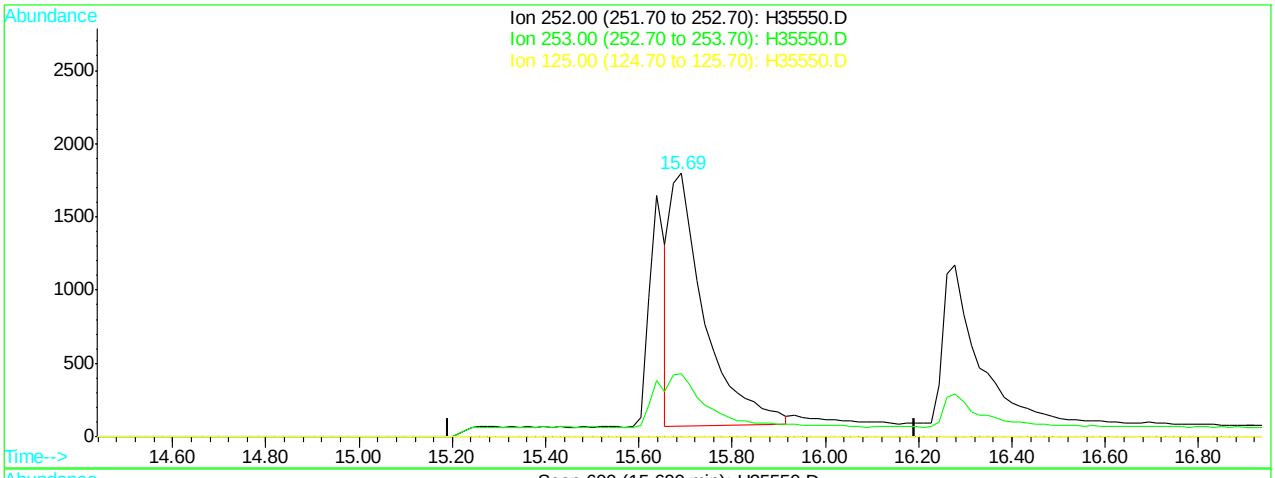
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	23.49
125.00	0.00	0.00
0.00	0.00	0.00

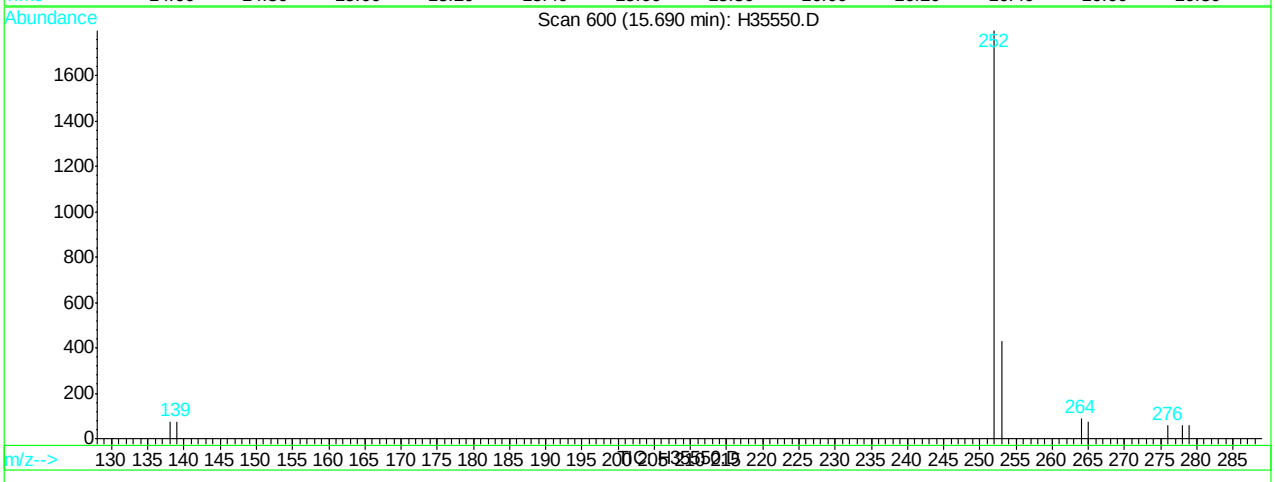
H35550.D H10269SP.M Tue Oct 27 14:27:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.60ppb m

response 8833

Ion	Exp%	Act%
252.00	100	100
253.00	26.80	23.97
125.00	0.00	0.00
0.00	0.00	0.00

H35550.D H10269SP.M Tue Oct 27 14:27:31 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:12:53 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	99212	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	73811	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	64543	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	80009	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	11558	4.00	ppb	0.00
26) Perylene-d12	16.37	264	5101	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#	
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb	
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#	
23) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#	

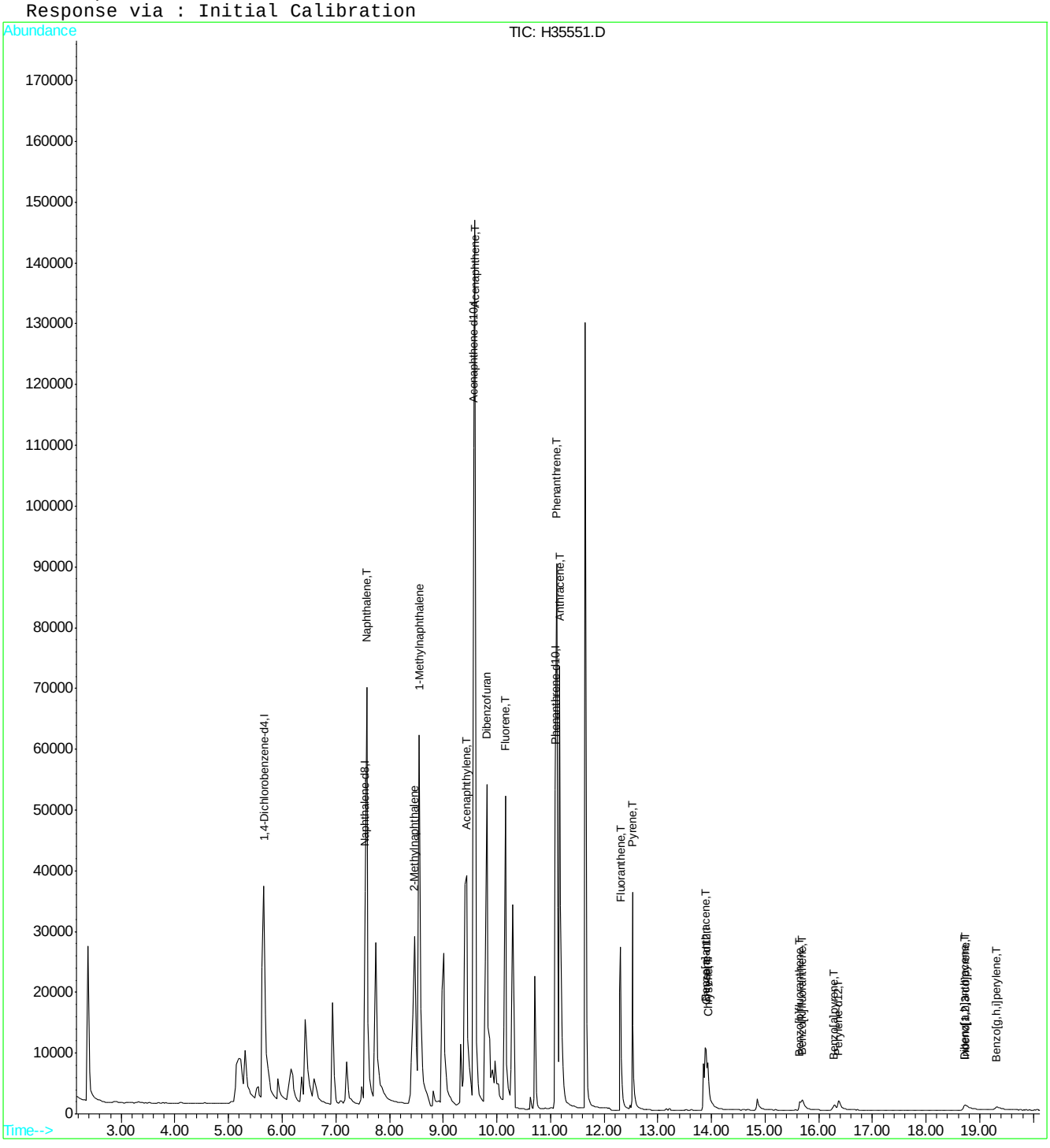
Target Compounds							Qvalue
6) Naphthalene	7.57	128	93243	2.46	ppb		97
7) 2-Methylnaphthalene	8.47	142	65317	2.61	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	92066	2.21	ppb	#	97
11) Acenaphthylene	9.43	152	79668	2.33	ppb		99
12) Acenaphthene	9.60	153	96689	2.50	ppb		97
13) Dibenzofuran	9.81	168	85948	1.83	ppb		85
14) Fluorene	10.16	166	46800	2.01	ppb		98
18) Phenanthrene	11.11	178	91492	2.43	ppb		98
19) Anthracene	11.17	178	108418	2.49	ppb		95
20) Fluoranthene	12.31	202	56066	2.61	ppb		100
22) Pyrene	12.53	202	57256	2.86	ppb		95
24) Benzo[a]anthracene	13.89	228	7665	2.45	ppb		99
25) Chrysene	13.94	228	14115m	2.74	ppb		
27) Benzo[b]fluoranthene	15.64	252	2670m	2.08	ppb		
28) Benzo[k]fluoranthene	15.69	252	7773m	2.77	ppb		
29) Benzo[a]pyrene	16.28	252	4273	2.36	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.74	276	3128	2.21	ppb		95
31) Dibenz[a,h]anthracene	18.72	278	2121	2.16	ppb		89
32) Benzo[g,h,i]perylene	19.31	276	2835	2.19	ppb		100

(#) = qualifier out of range (m) = manual integration
H35551.D H10269SP.M Tue Oct 27 14:27:41 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: H10229SP.RES

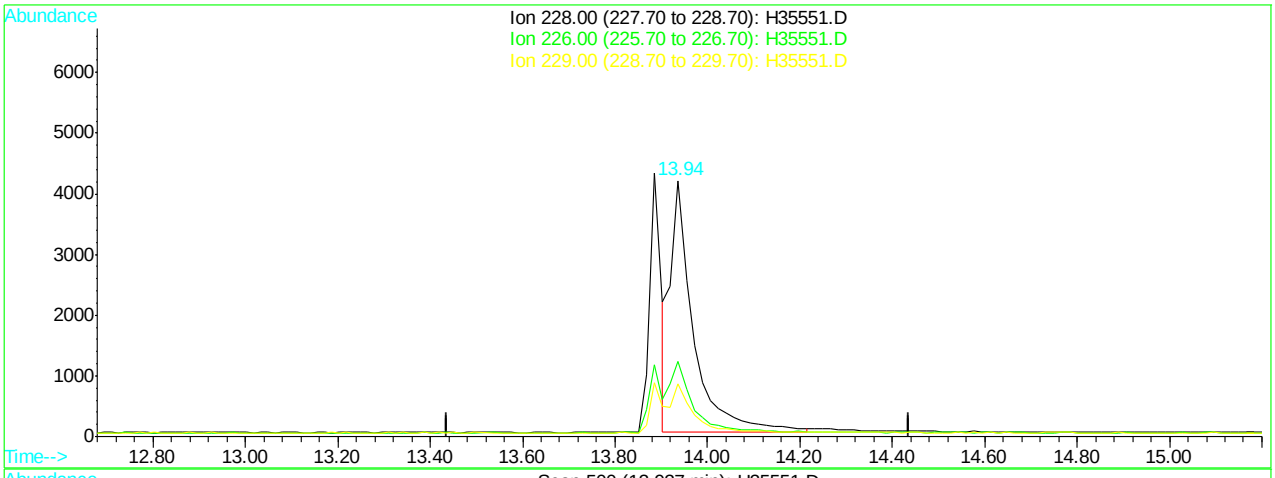
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

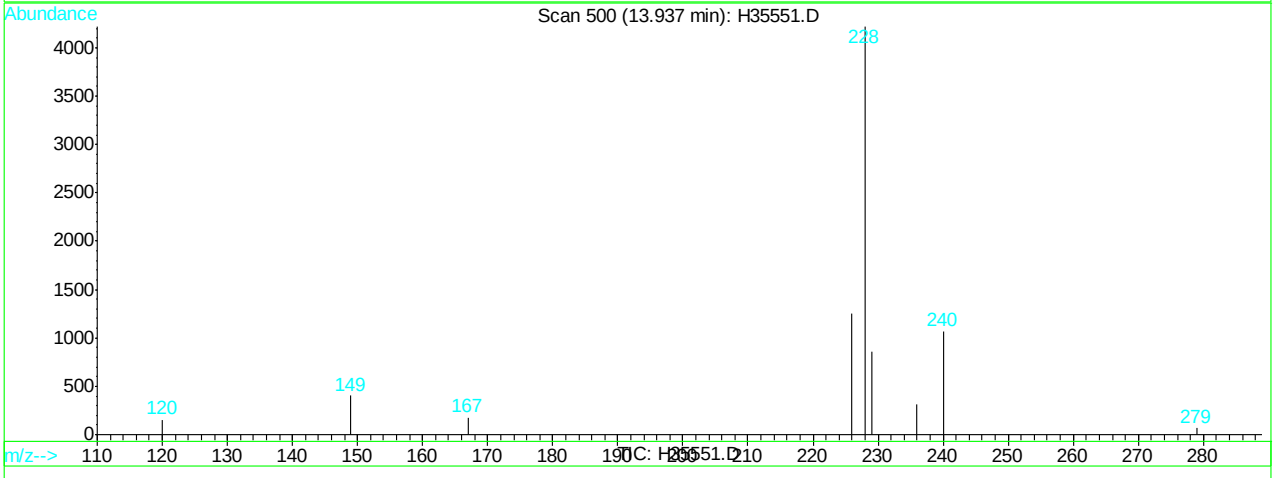


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.74ppb m

response 14115

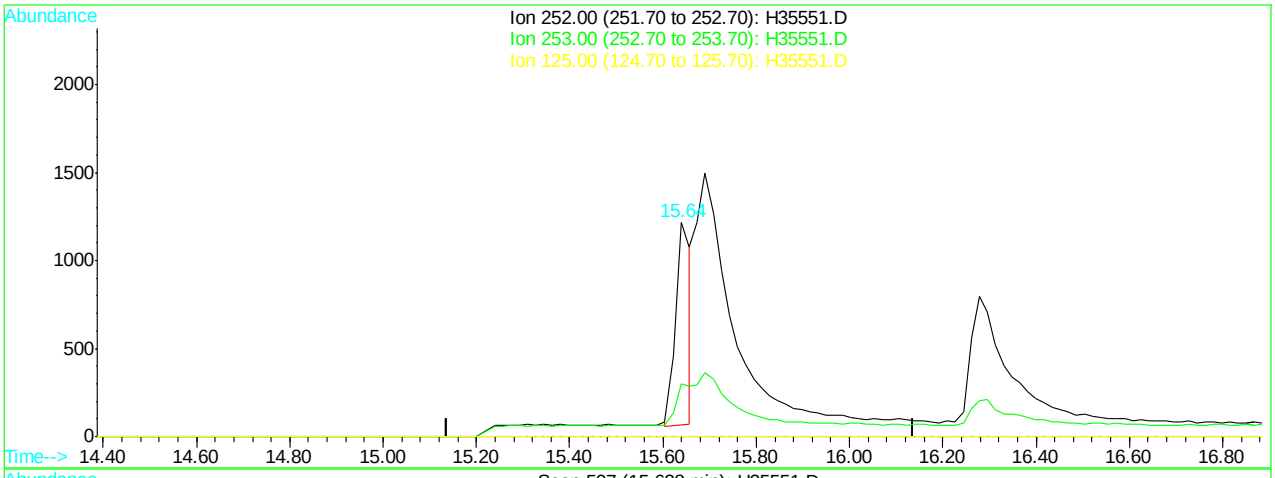
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	29.56
229.00	20.20	20.38
0.00	0.00	0.00

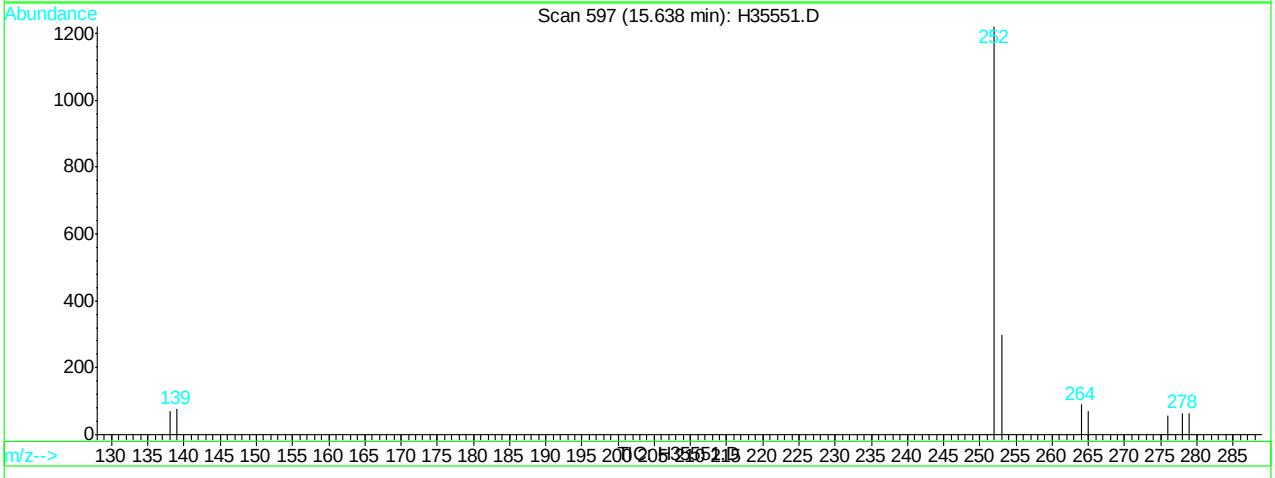
H35551.D H10269SP.M Tue Oct 27 14:28:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 2.08ppb m

response 2670

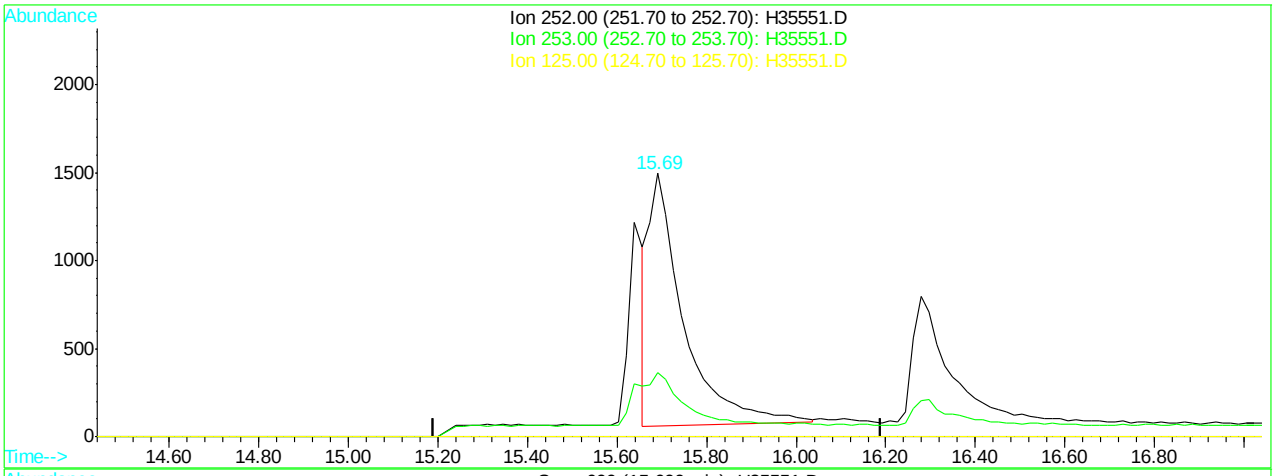
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	24.34
125.00	0.00	0.00
0.00	0.00	0.00

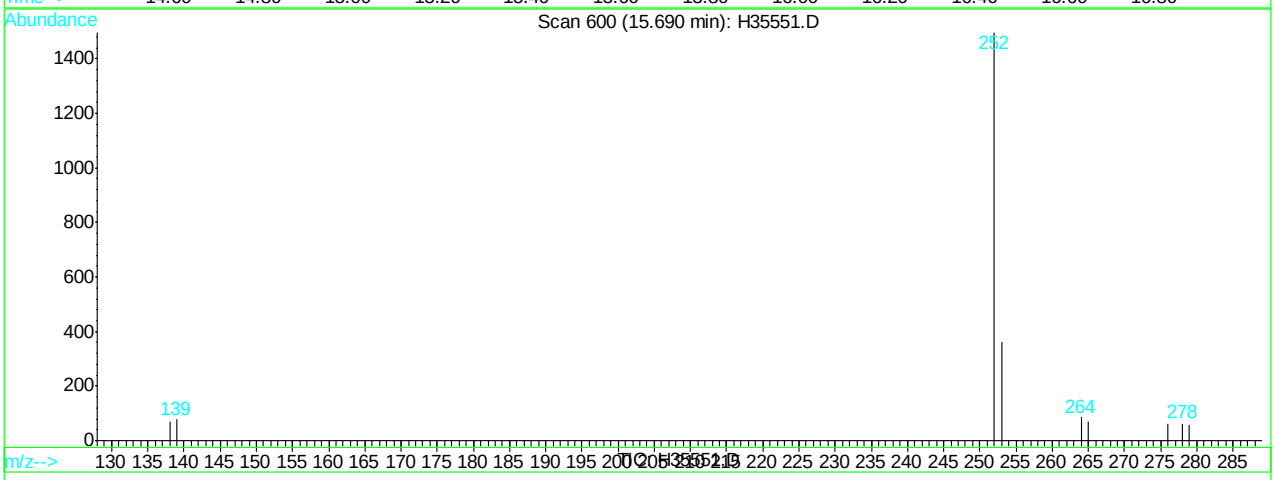
H35551.D H10269SP.M Tue Oct 27 14:28:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.77ppb m

response 7773

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	24.13
125.00	0.00	0.00
0.00	0.00	0.00

H35551.D H10269SP.M Tue Oct 27 14:28:13 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:53:41 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	99258	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	92355	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	65780	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	81086	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	9097	4.00	ppb	0.00
26) Perylene-d12	16.38	264	4085	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	50484	9.59	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 191.80%#			
10) 2-Fluorobiphenyl	8.87	172	386313	7.37	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 147.40%#			
16) 2,4,6-Tribromophenol	10.40	330	75337	30.34	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 303.40%#			
23) Terphenyl-d14	12.66	244	31134	13.51	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 270.20%#			

Target Compounds

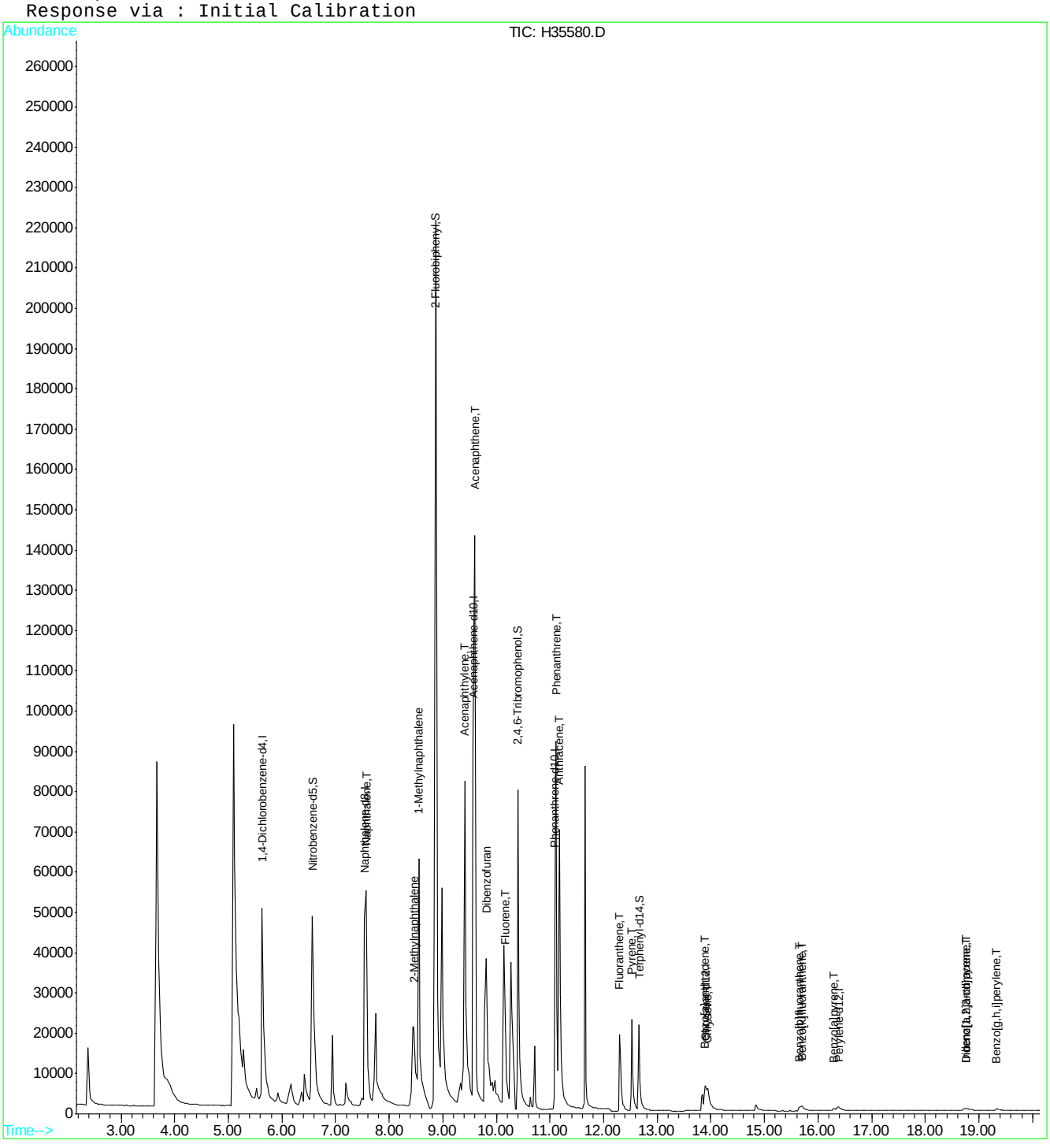
							Qvalue
6) Naphthalene	7.57	128	77225	1.84	ppb		91
7) 2-Methylnaphthalene	8.46	142	55399m	2.06	ppb		
8) 1-Methylnaphthalene	8.55	142	95129m	2.14	ppb		
11) Acenaphthylene	9.41	152	120792	2.65	ppb	#	86
12) Acenaphthene	9.60	153	93555	2.41	ppb	#	69
13) Dibenzofuran	9.81	168	74971	1.72	ppb		92
14) Fluorene	10.16	166	45723	1.87	ppb		96
18) Phenanthrene	11.11	178	91764	2.42	ppb		90
19) Anthracene	11.17	178	107144	2.50	ppb		91
20) Fluoranthene	12.29	202	41857	2.06	ppb	#	92
22) Pyrene	12.53	202	42511	2.80	ppb		95
24) Benzo[a]anthracene	13.89	228	6035m	2.51	ppb		
25) Chrysene	13.94	228	9685m	2.37	ppb		
27) Benzo[b]fluoranthene	15.66	252	2430m	2.40	ppb		
28) Benzo[k]fluoranthene	15.69	252	5439m	2.97	ppb		
29) Benzo[a]pyrene	16.30	252	3394	2.50	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.75	276	2421	2.83	ppb		89
31) Dibenz[a,h]anthracene	18.75	278	1745	2.54	ppb	#	91
32) Benzo[g,h,i]perylene	19.32	276	2249	2.76	ppb		89

(#) = qualifier out of range (m) = manual integration
H35580.D H10239SP.M Tue Oct 27 15:17:04 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: H10239SP.RES

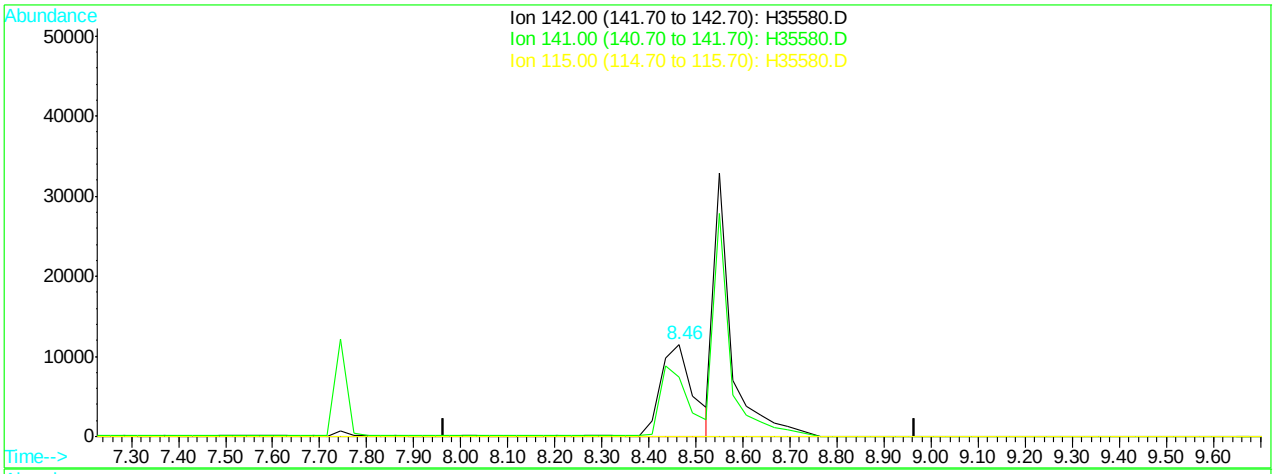
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

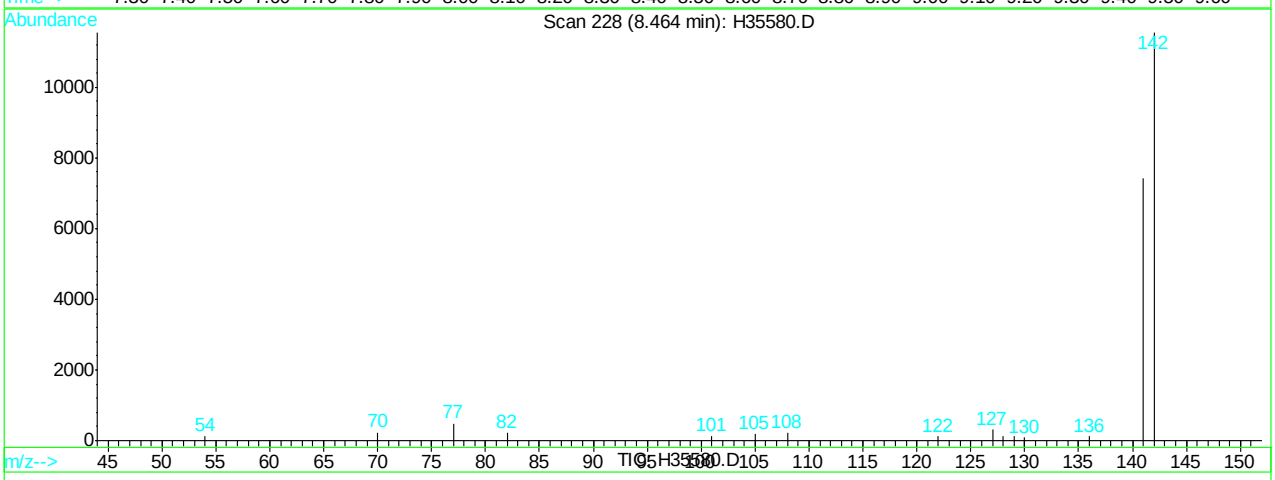


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 2.06ppb m

response 55399

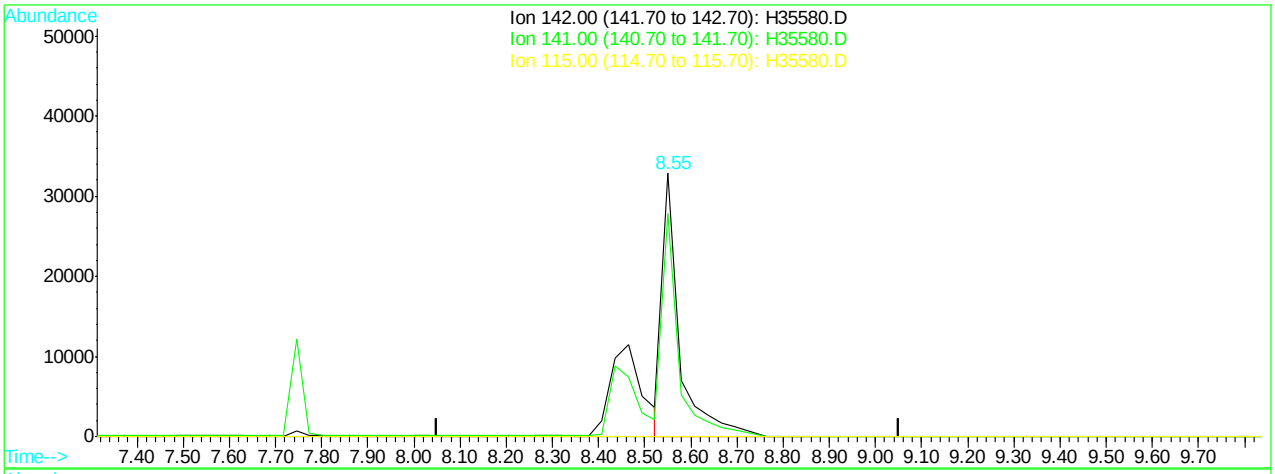
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	148.51#
115.00	0.00	0.00
0.00	0.00	0.00

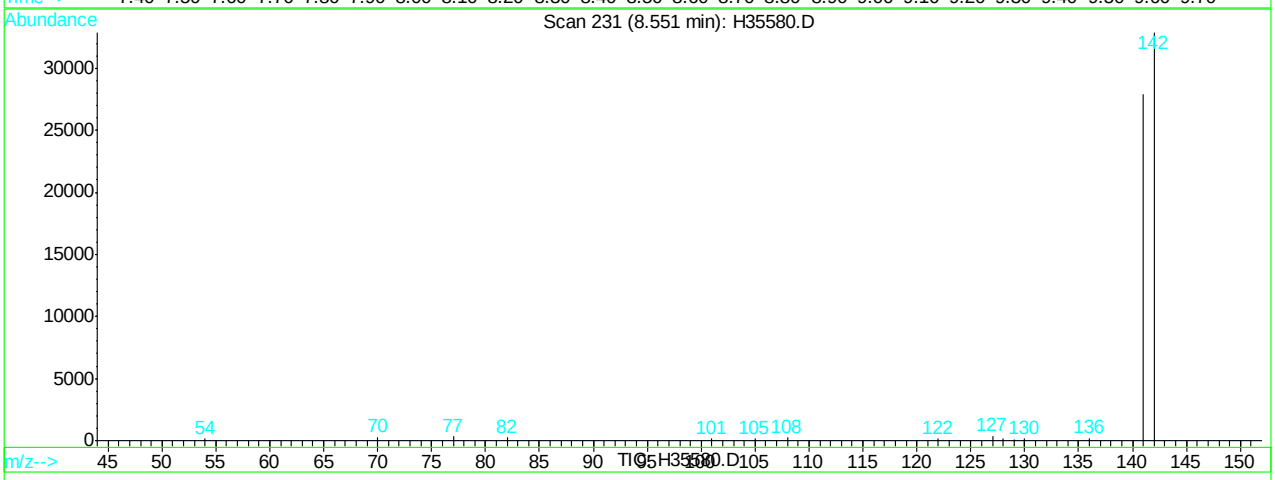
H35580.D H10239SP.M Tue Oct 27 15:18:58 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 2.14ppb m

response 95129

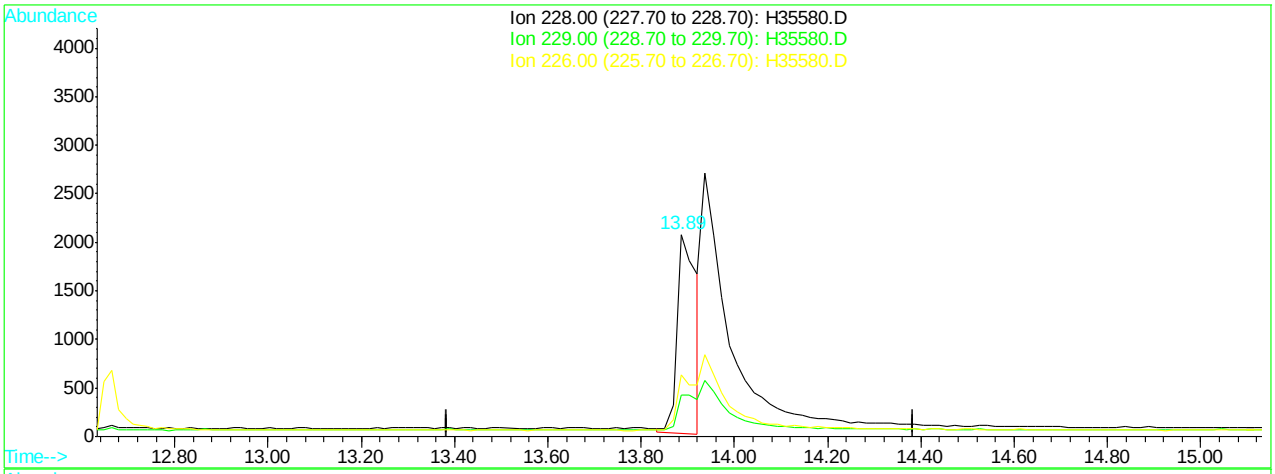
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	86.49#
115.00	0.00	0.00
0.00	0.00	0.00

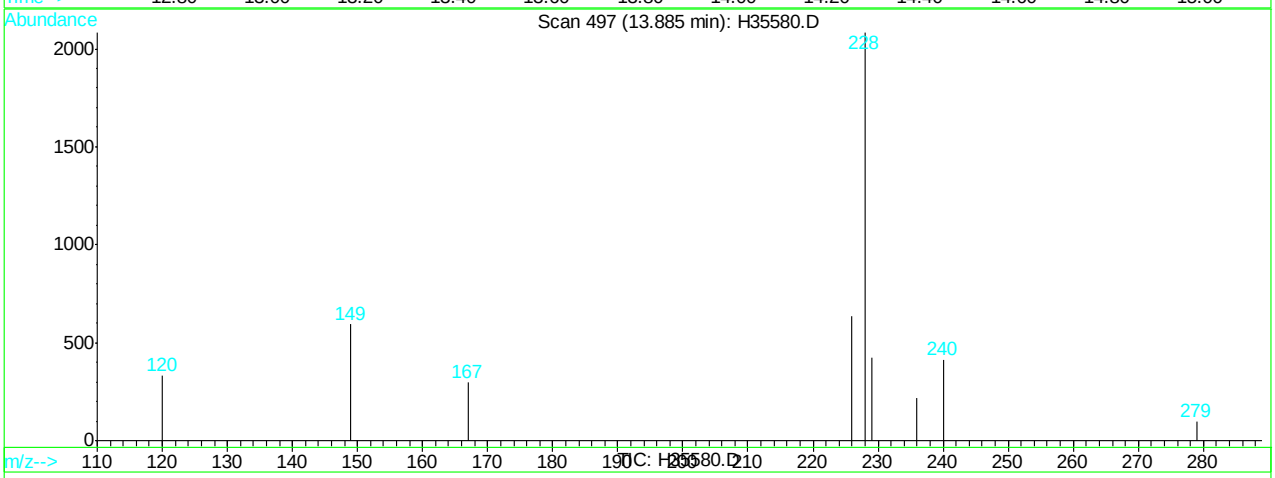
H35580.D H10239SP.M Tue Oct 27 15:19:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.89min 2.51ppb m

response 6035

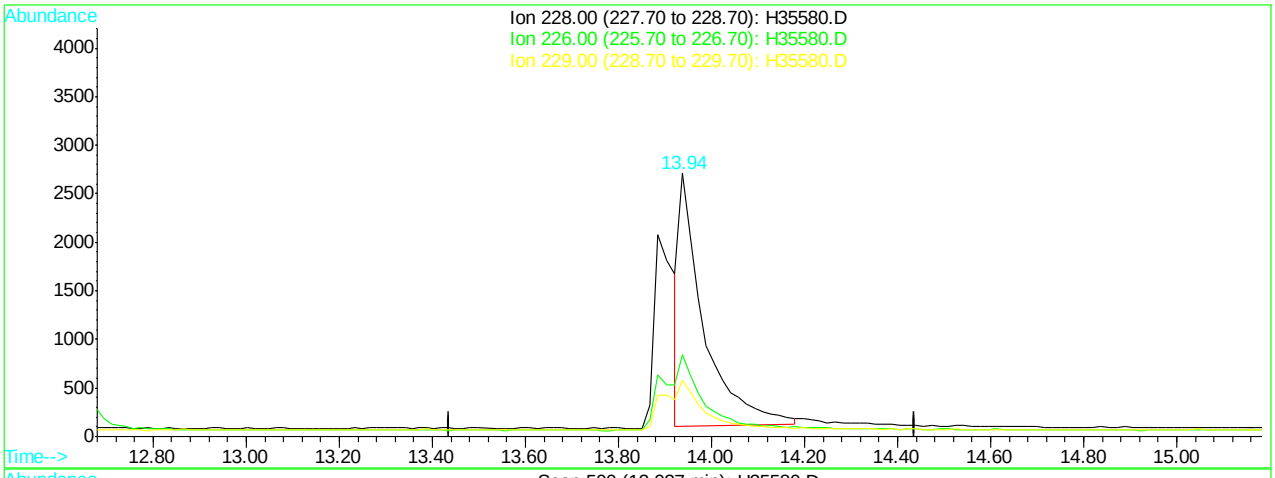
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	20.45
226.00	27.40	30.48
0.00	0.00	0.00

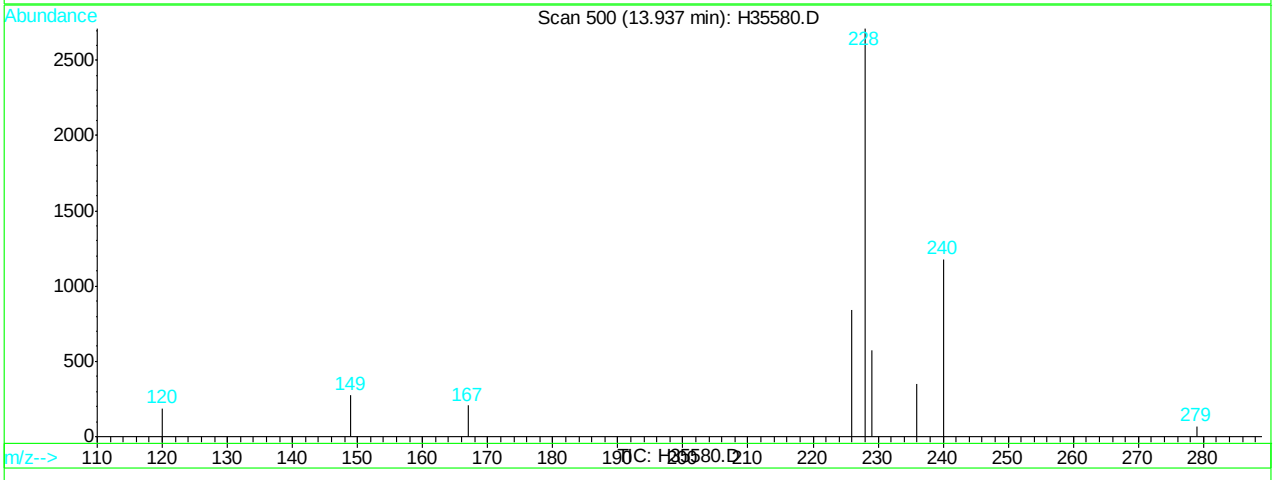
H35580.D H10239SP.M Tue Oct 27 15:19:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.37ppb m

response 9685

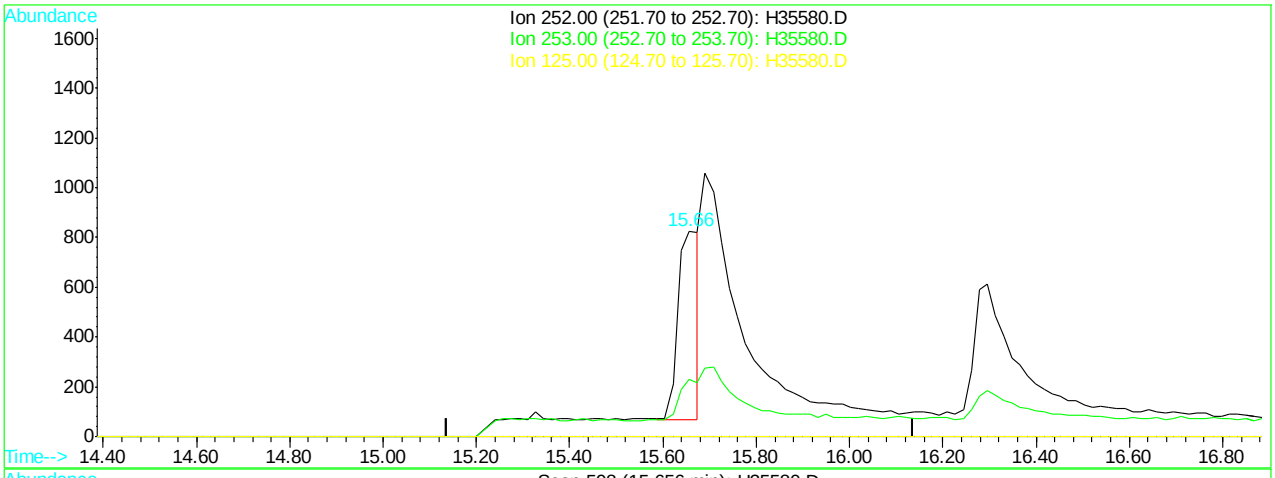
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	31.06
229.00	20.20	21.21
0.00	0.00	0.00

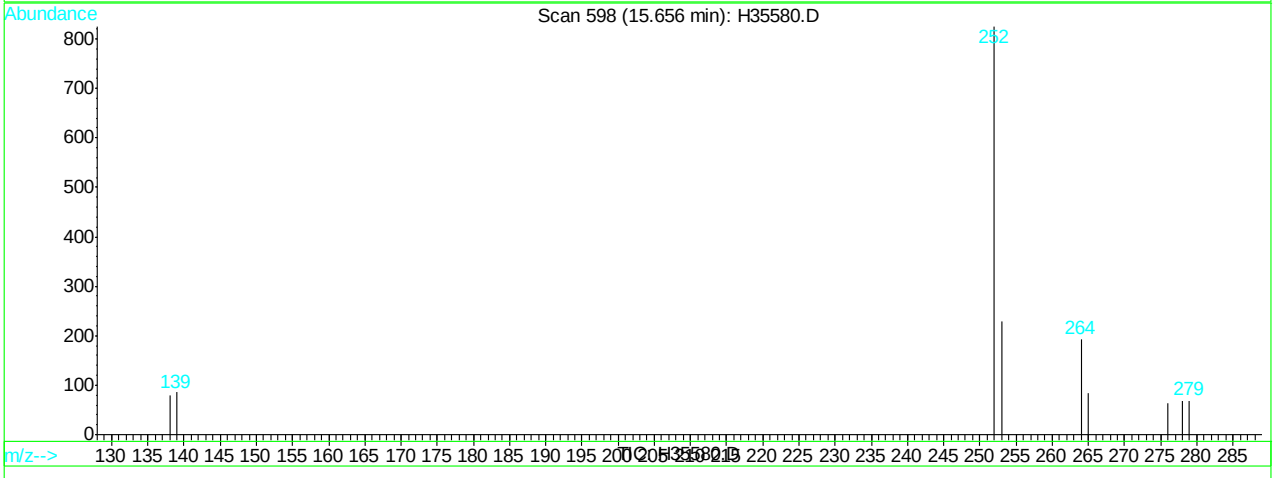
H35580.D H10239SP.M Tue Oct 27 15:19:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 2.40ppb m

response 2430

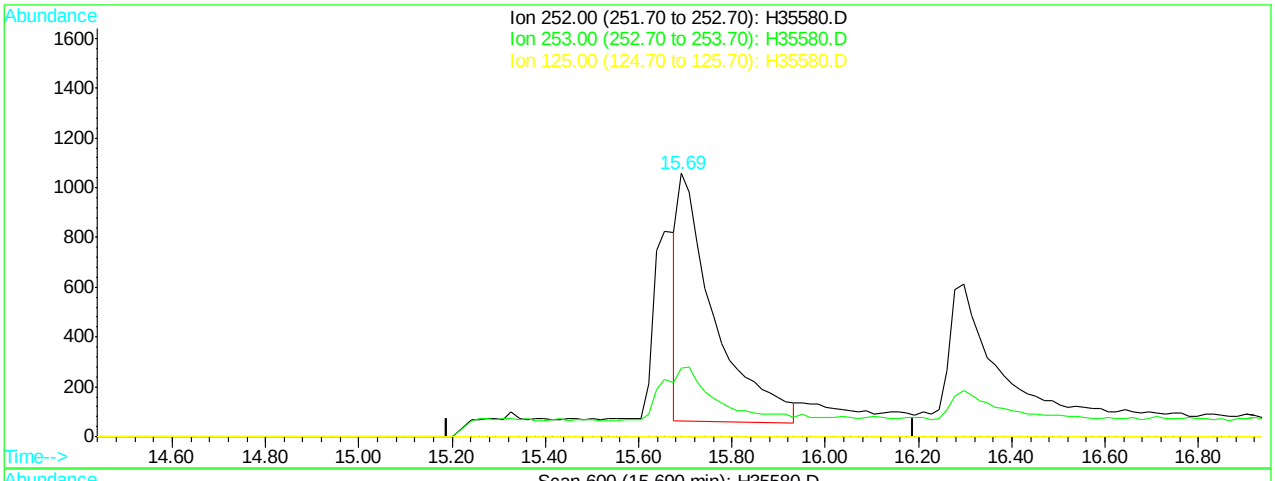
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	27.76
125.00	0.00	0.00
0.00	0.00	0.00

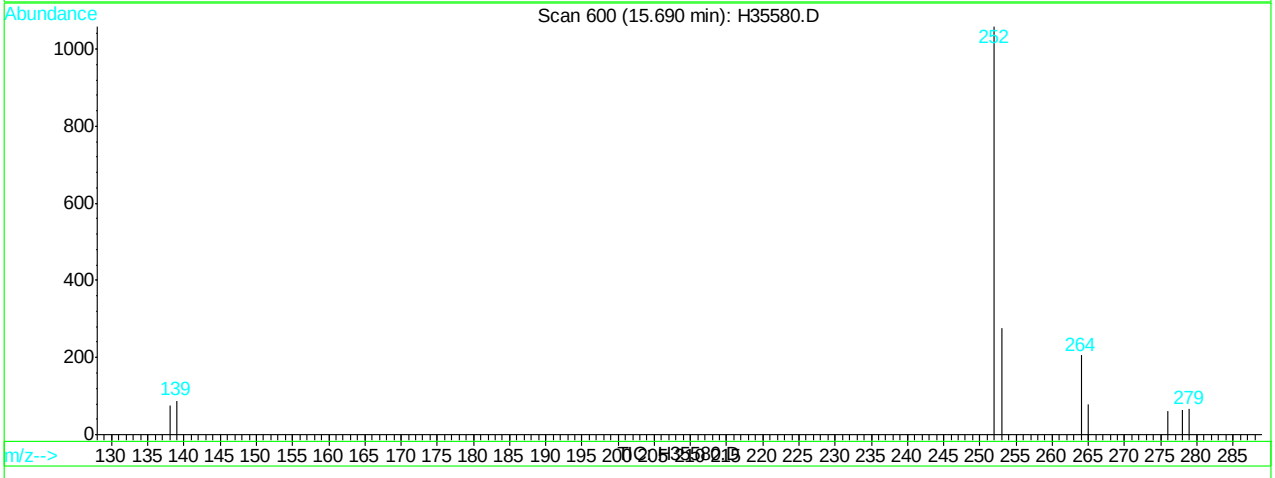
H35580.D H10239SP.M Tue Oct 27 15:19:13 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35580.D Vial: 2
Acq On : 23 Oct 2009 11:13 am Operator: sheilac
Sample : icc1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:56 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.97ppb m

response 5439

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	26.09
125.00	0.00	0.00
0.00	0.00	0.00

H35580.D H10239SP.M Tue Oct 27 15:19:17 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	102708	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	87587	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	65890	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	68983	4.00	ppb	0.00
21) Chrysene-d12	13.92	240	8000	4.00	ppb	0.02
26) Perylene-d12	16.38	264	4159	4.00	ppb	0.02
System Monitoring Compounds						
5) Nitrobenzene-d5	6.57	82	22553	3.80	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 76.00%			
10) 2-Fluorobiphenyl	8.87	172	192086	3.61	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 72.20%			
16) 2,4,6-Tribromophenol	10.42	330	21629	10.22	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 102.20%			
23) Terphenyl-d14	12.68	244	8519	4.27	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 85.40%			

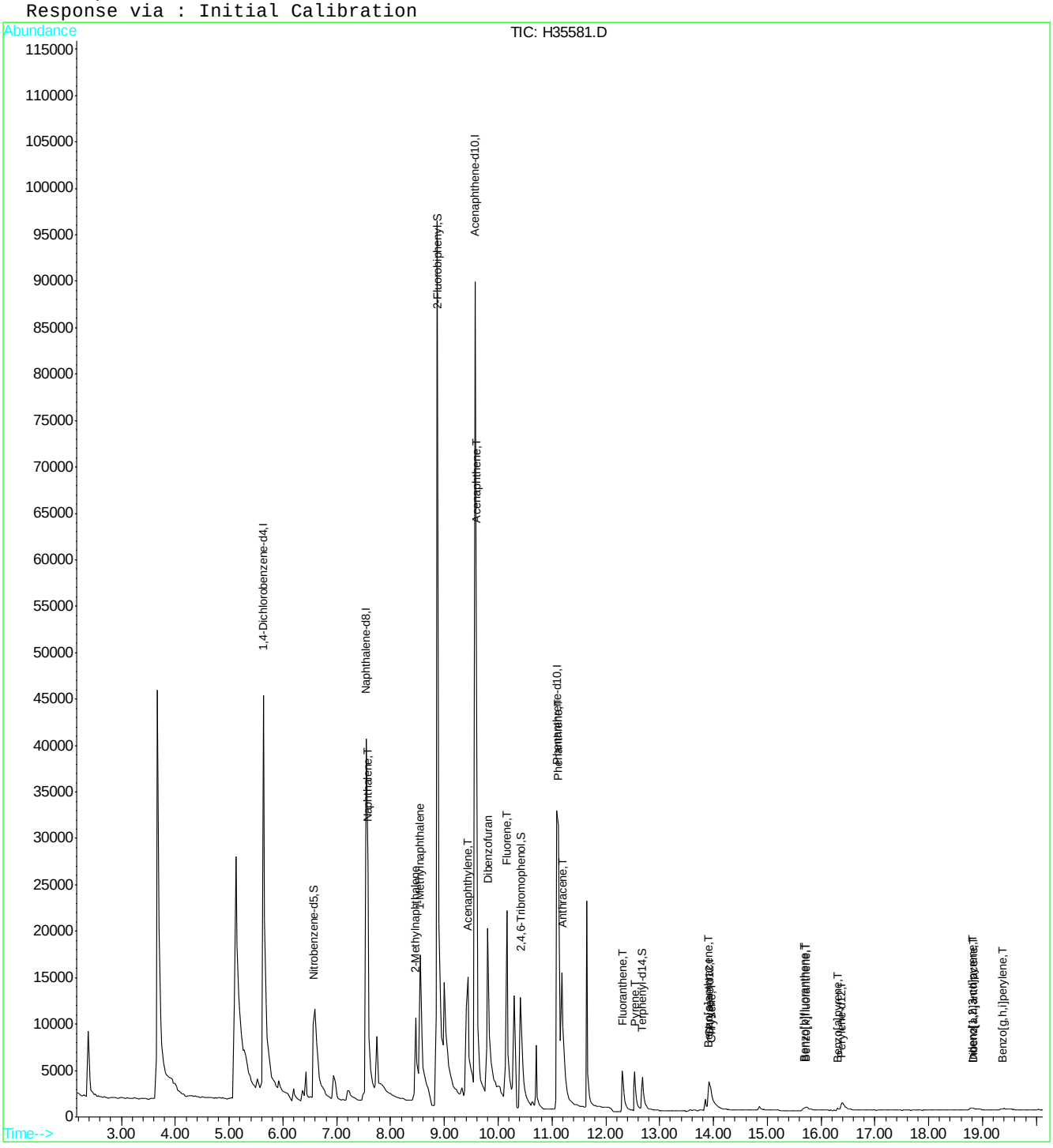
Target Compounds							Qvalue
6) Naphthalene	7.57	128	29276	0.64	ppb		92
7) 2-Methylnaphthalene	8.46	142	16608m	0.63	ppb		
8) 1-Methylnaphthalene	8.55	142	32761m	0.71	ppb		
11) Acenaphthylene	9.43	152	28073	0.64	ppb		100
12) Acenaphthene	9.59	153	36972	0.94	ppb		79
13) Dibenzofuran	9.81	168	44354	0.93	ppb		90
14) Fluorene	10.16	166	20877	0.81	ppb		97
18) Phenanthrene	11.11	178	27228	0.84	ppb		96
19) Anthracene	11.19	178	36383m	0.97	ppb		
20) Fluoranthene	12.31	202	11615	0.64	ppb	#	96
22) Pyrene	12.54	202	12944	0.98	ppb		95
24) Benzo[a]anthracene	13.90	228	1221m	0.56	ppb		
25) Chrysene	13.95	228	4526m	1.27	ppb		
27) Benzo[b]fluoranthene	15.69	252	735m	0.66	ppb		
28) Benzo[k]fluoranthene	15.73	252	1896m	1.04	ppb		
29) Benzo[a]pyrene	16.31	252	1219	0.88	ppb		93
30) Indeno[1,2,3-cd]pyrene	18.81	276	877	0.98	ppb		92
31) Dibenz[a,h]anthracene	18.82	278	571	0.80	ppb	#	91
32) Benzo[g,h,i]perylene	19.38	276	910	1.07	ppb	#	77

(#) = qualifier out of range (m) = manual integration
H35581.D H10239SP.M Tue Oct 27 15:19:25 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: H10239SP.RES

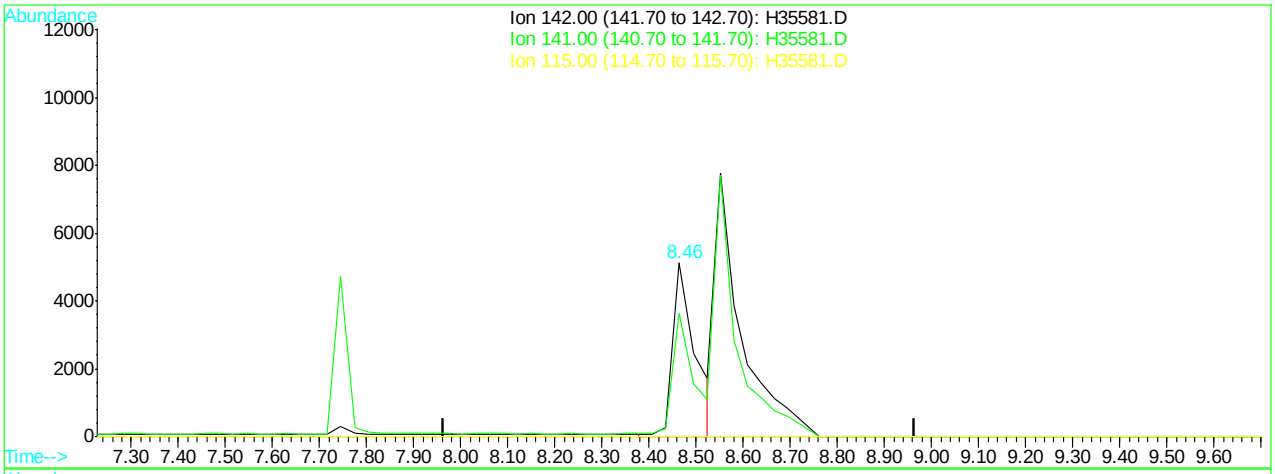
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

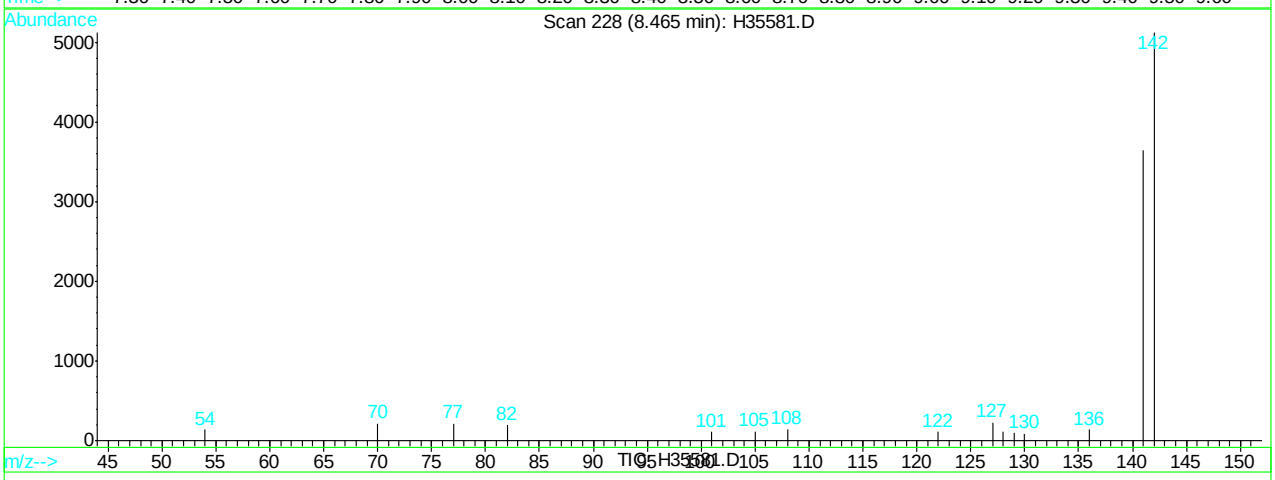


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 0.63ppb m

response 16608

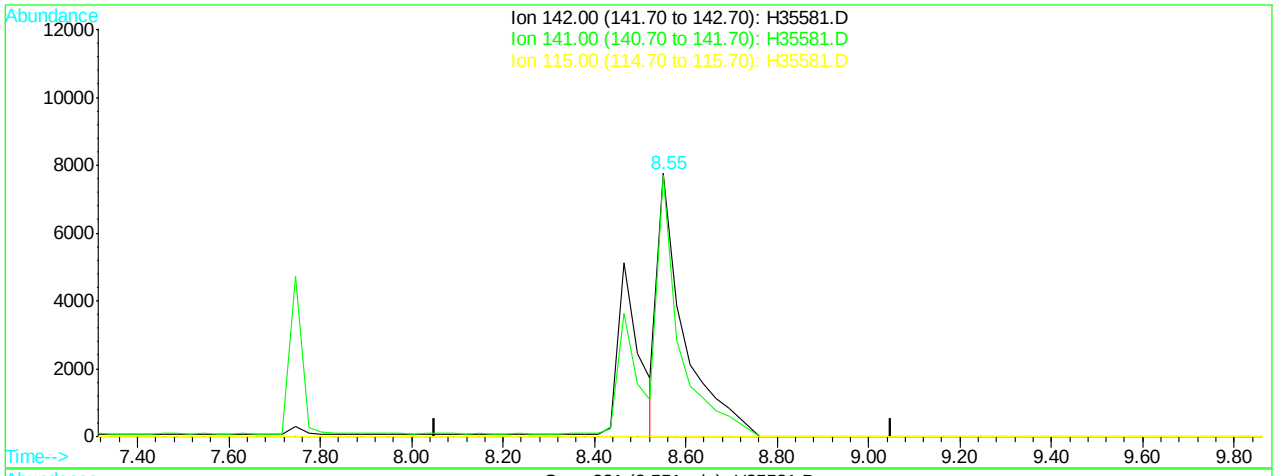
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	240.58#
115.00	0.00	0.00
0.00	0.00	0.00

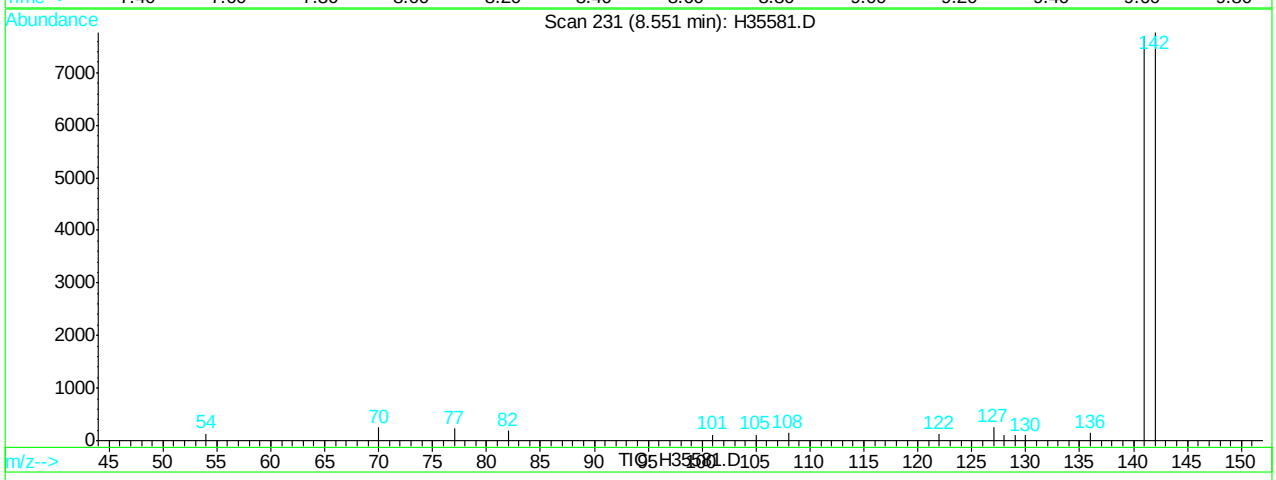
H35581.D H10239SP.M Tue Oct 27 15:19:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 0.71ppb m

response 32761

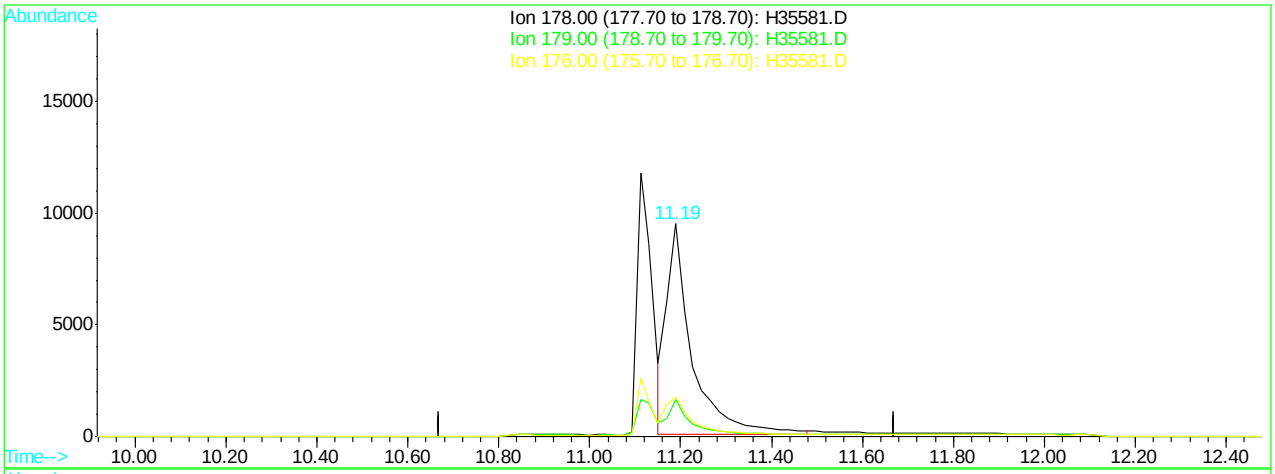
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	121.96
115.00	0.00	0.00
0.00	0.00	0.00

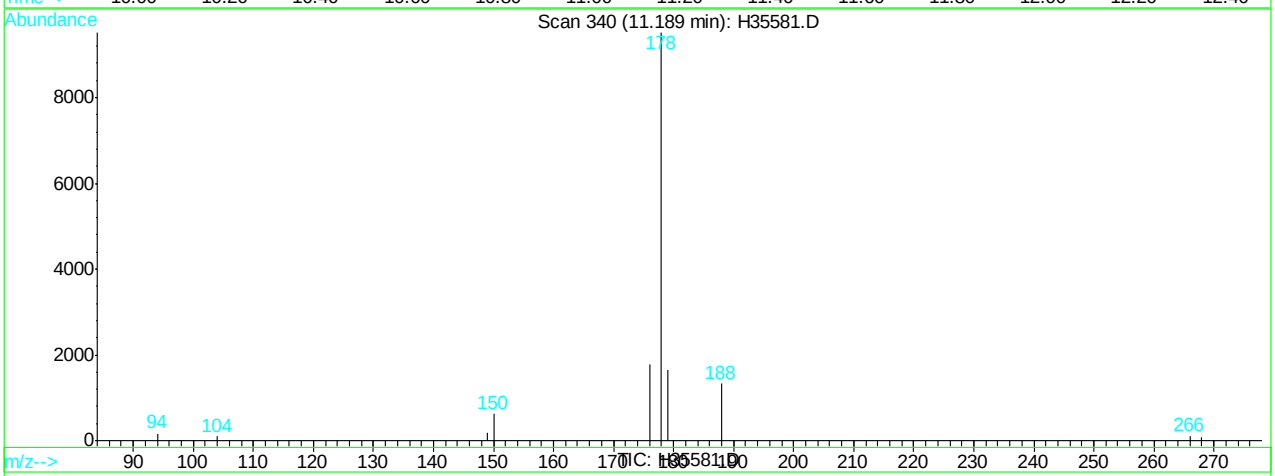
H35581.D H10239SP.M Tue Oct 27 15:19:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.19min 0.97ppb m

response 36383

Ion	Exp%	Act%
178.00	100	100
179.00	12.00	17.31#
176.00	23.40	18.66
0.00	0.00	0.00

H35581.D H10239SP.M Tue Oct 27 15:20:01 2009

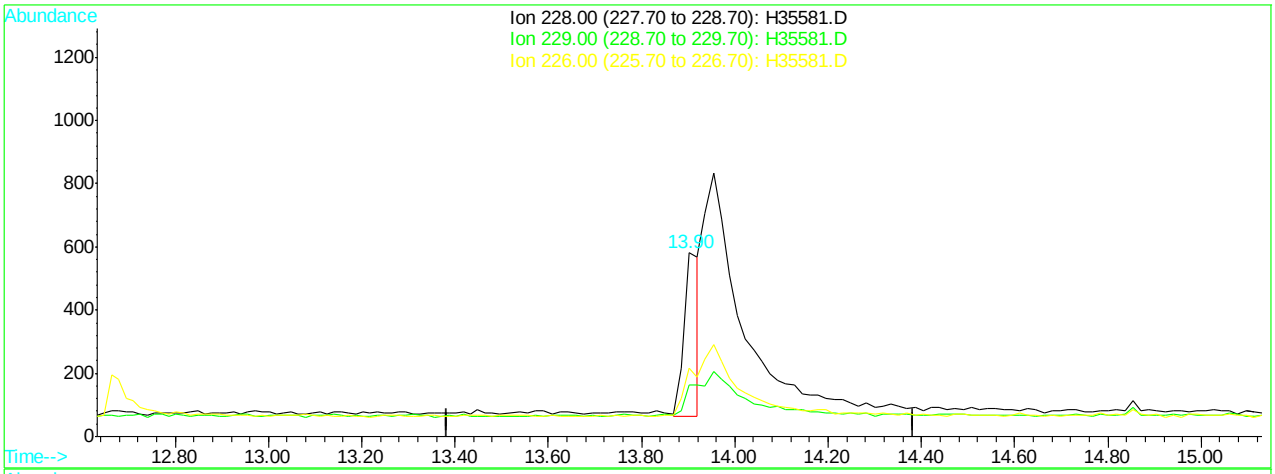
8.6.9.3

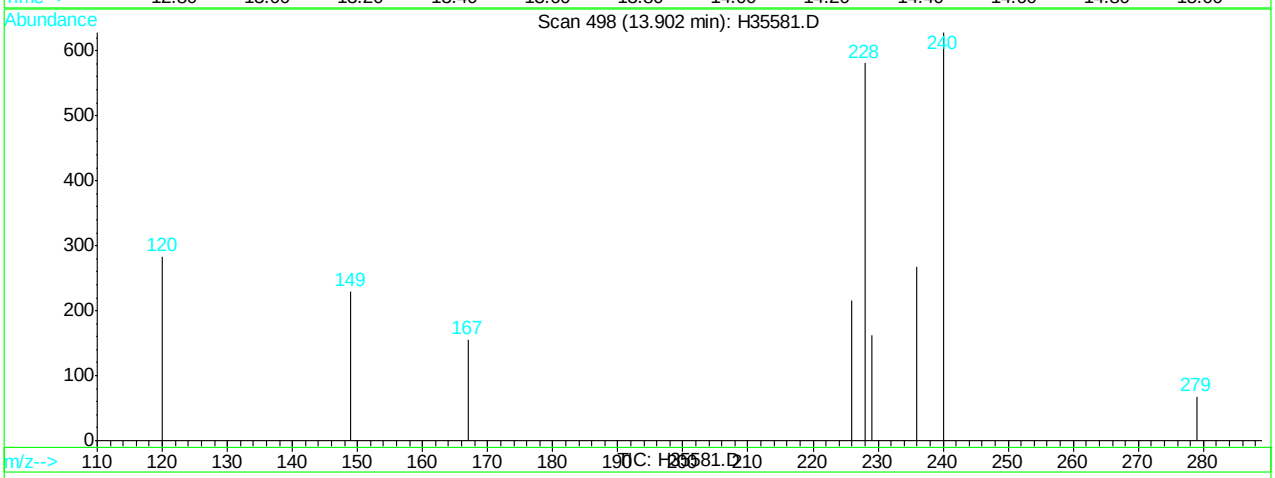
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.56ppb m

response 1221

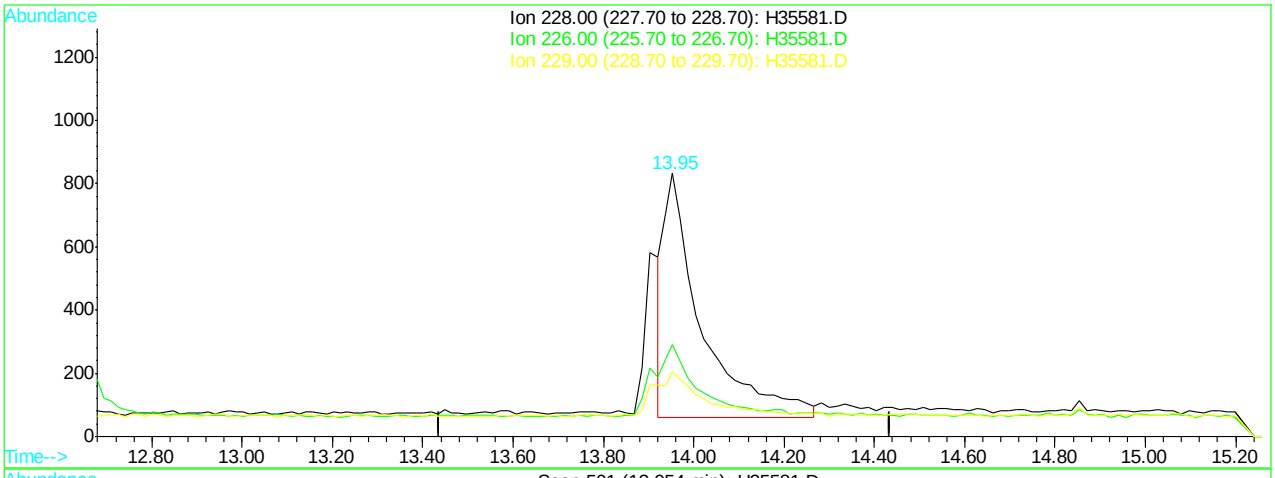
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	27.88#
226.00	27.40	37.18#
0.00	0.00	0.00

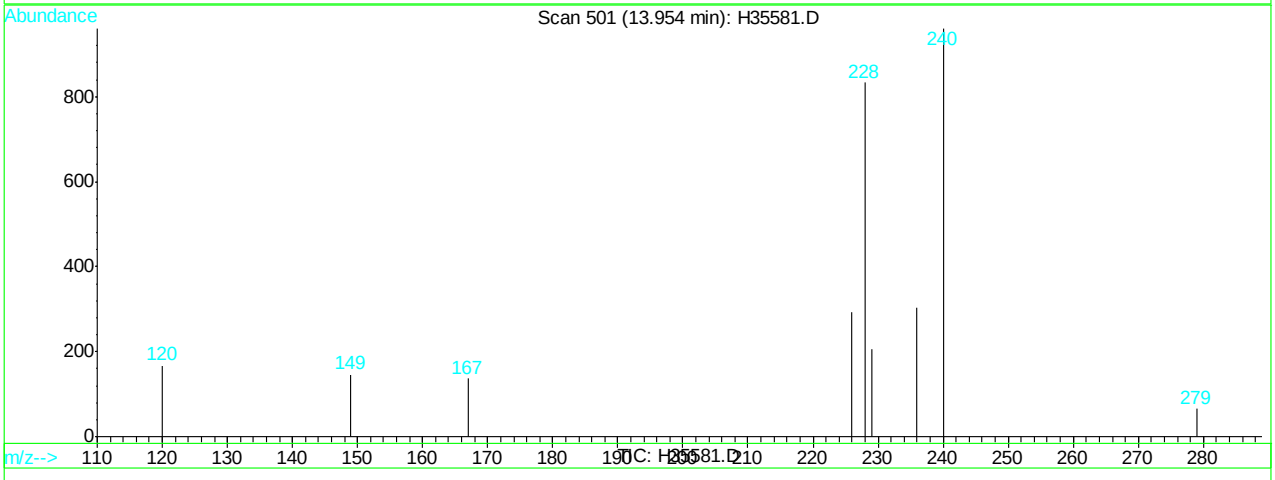
H35581.D H10239SP.M Tue Oct 27 15:20:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 1.27ppb m

response 4526

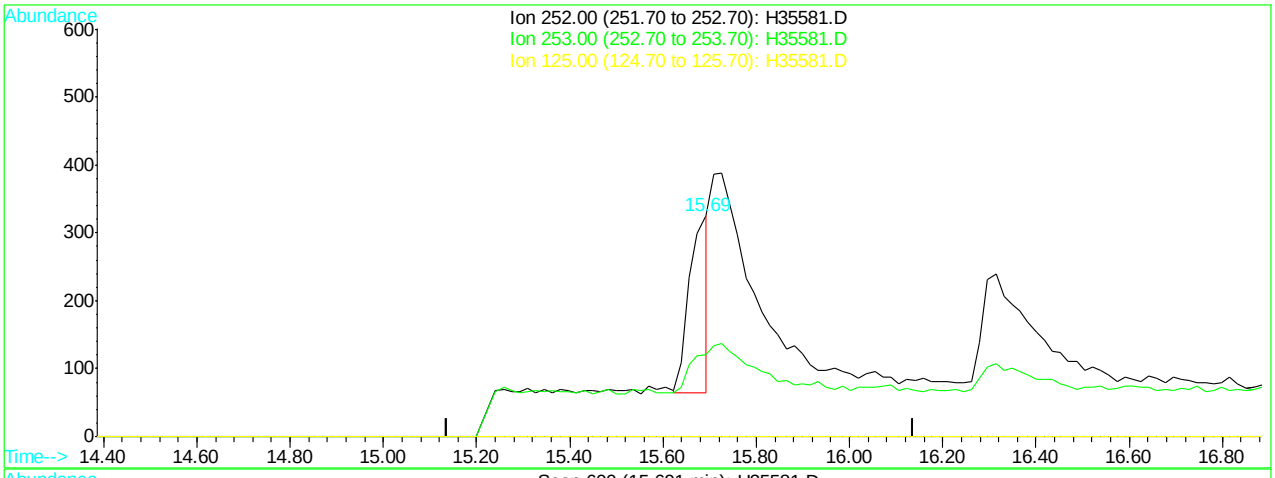
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	35.05
229.00	20.20	24.73
0.00	0.00	0.00

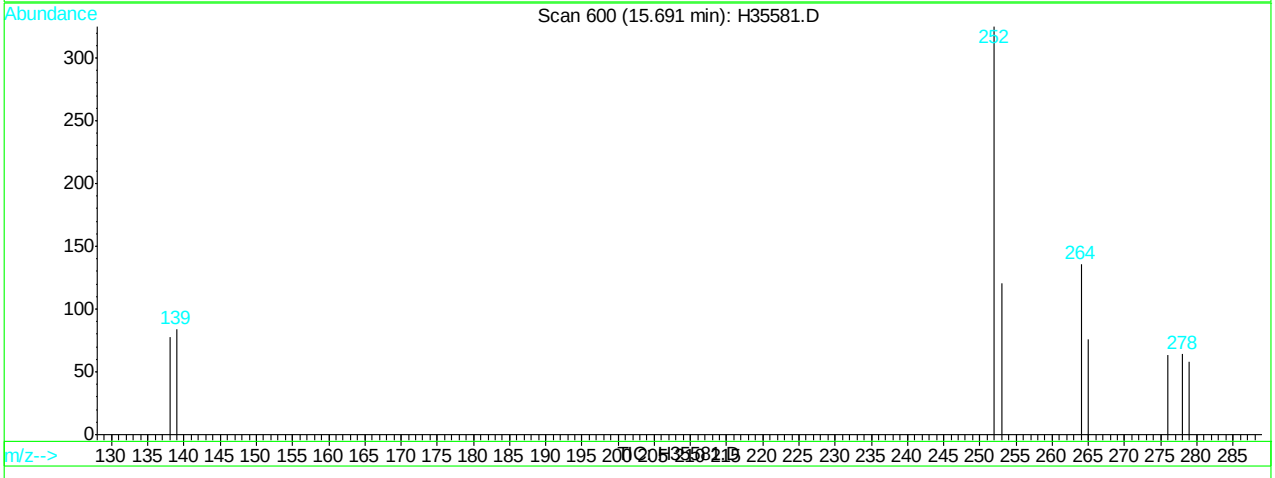
H35581.D H10239SP.M Tue Oct 27 15:20:08 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.69min 0.66ppb m

response 735

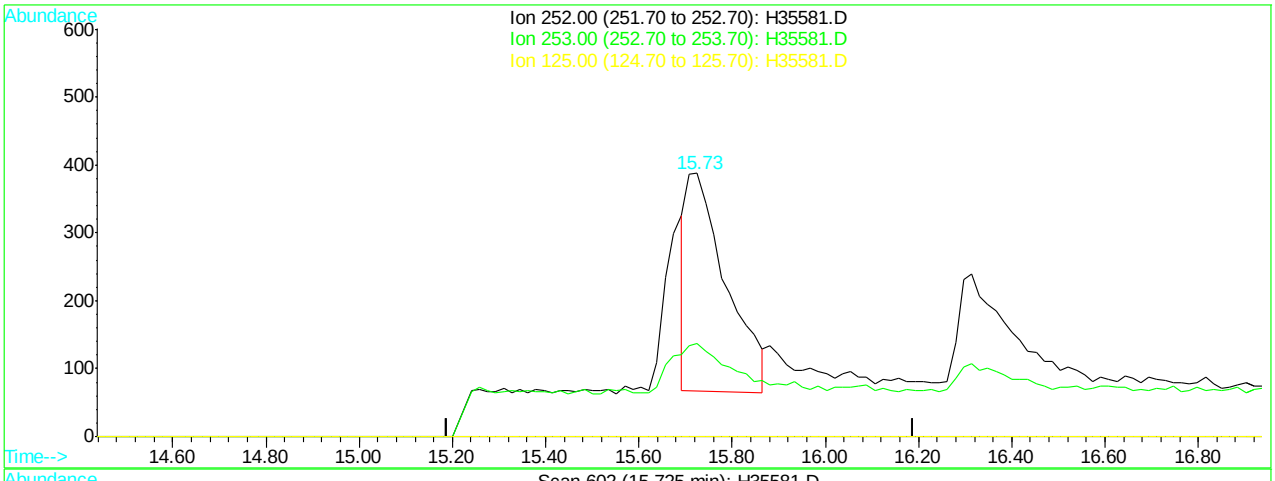
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	37.23#
125.00	0.00	0.00
0.00	0.00	0.00

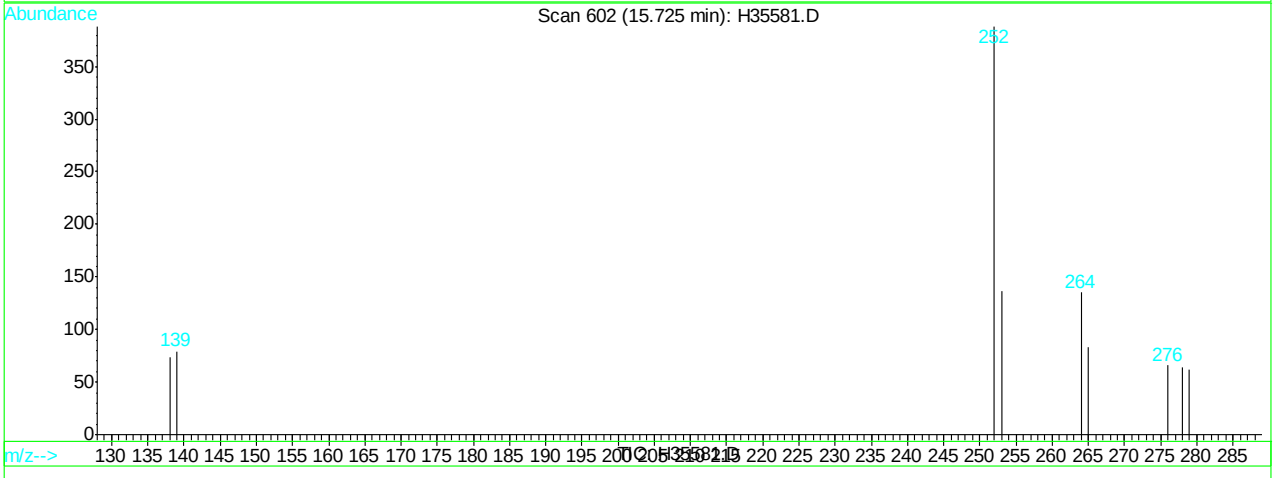
H35581.D H10239SP.M Tue Oct 27 15:20:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35581.D Vial: 3
Acq On : 23 Oct 2009 11:39 am Operator: sheilac
Sample : ic1920-1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:04 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 1.04ppb m

response 1896

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	35.31#
125.00	0.00	0.00
0.00	0.00	0.00

H35581.D H10239SP.M Tue Oct 27 15:20:14 2009

8.6.9.7

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	83648	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	63676	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	52898	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	48772	4.00	ppb	0.02
21) Chrysene-d12	13.94	240	8164	4.00	ppb	0.04
26) Perylene-d12	16.40	264	4584	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.42	82	331	0.08	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	1.60%#	
10) 2-Fluorobiphenyl	8.93	172	13943	0.33	ppb	0.06
Spiked Amount 5.000	Range 15 - 137		Recovery	=	6.60%#	
16) 2,4,6-Tribromophenol	10.51	330	575m	0.38	ppb	0.10
Spiked Amount 10.000	Range 10 - 123		Recovery	=	3.80%#	
23) Terphenyl-d14	12.70	244	665	0.33	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	6.60%#	

Target Compounds

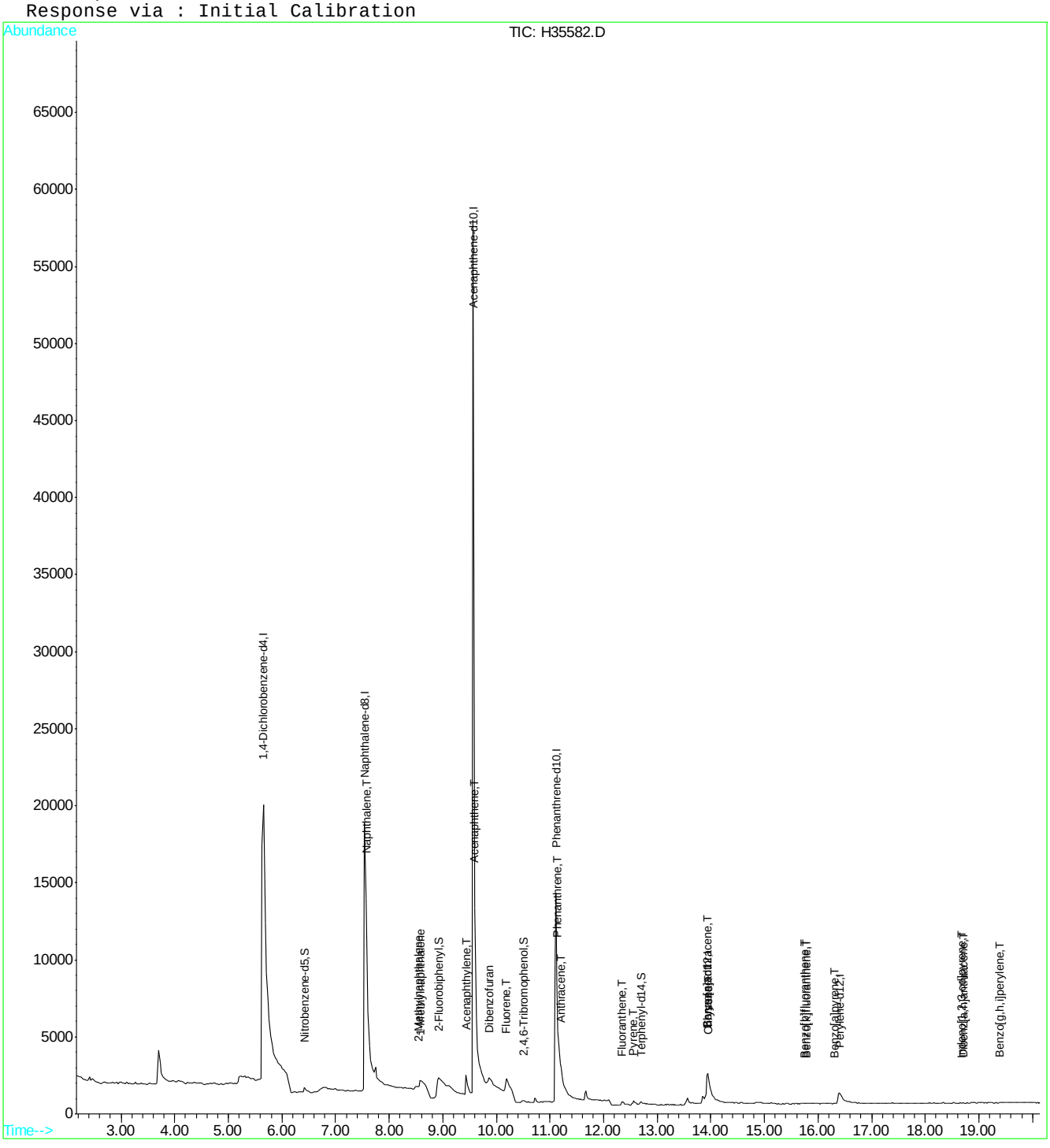
							Qvalue
6) Naphthalene	7.57	128	2499	0.08	ppb	#	96
7) 2-Methylnaphthalene	8.55	142	480m	0.03	ppb		
8) 1-Methylnaphthalene	8.58	142	1924m	0.06	ppb		
11) Acenaphthylene	9.44	152	2817	0.08	ppb	#	87
12) Acenaphthene	9.60	153	3045	0.10	ppb		90
13) Dibenzofuran	9.87	168	3057	0.08	ppb		94
14) Fluorene	10.19	166	1424	0.07	ppb		91
18) Phenanthrene	11.13	178	2033	0.09	ppb	#	85
19) Anthracene	11.21	178	2694	0.10	ppb	#	87
20) Fluoranthene	12.34	202	916	0.07	ppb	#	92
22) Pyrene	12.56	202	1325	0.10	ppb		99
24) Benzo[a]anthracene	13.94	228	166m	0.08	ppb		
25) Chrysene	13.96	228	317m	0.09	ppb		
27) Benzo[b]fluoranthene	15.74	252	169m	0.14	ppb		
28) Benzo[k]fluoranthene	15.78	252	149m	0.07	ppb		
29) Benzo[a]pyrene	16.31	252	154	0.10	ppb		87
30) Indeno[1,2,3-cd]pyrene	18.68	276	15	0.02	ppb	#	45
31) Dibenz[a,h]anthracene	18.72	278	35	0.04	ppb	#	29
32) Benzo[g,h,i]perylene	19.39	276	59	0.06	ppb	#	72

(#) = qualifier out of range (m) = manual integration
H35582.D H10239SP.M Tue Oct 27 15:20:23 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: H10239SP.RES

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

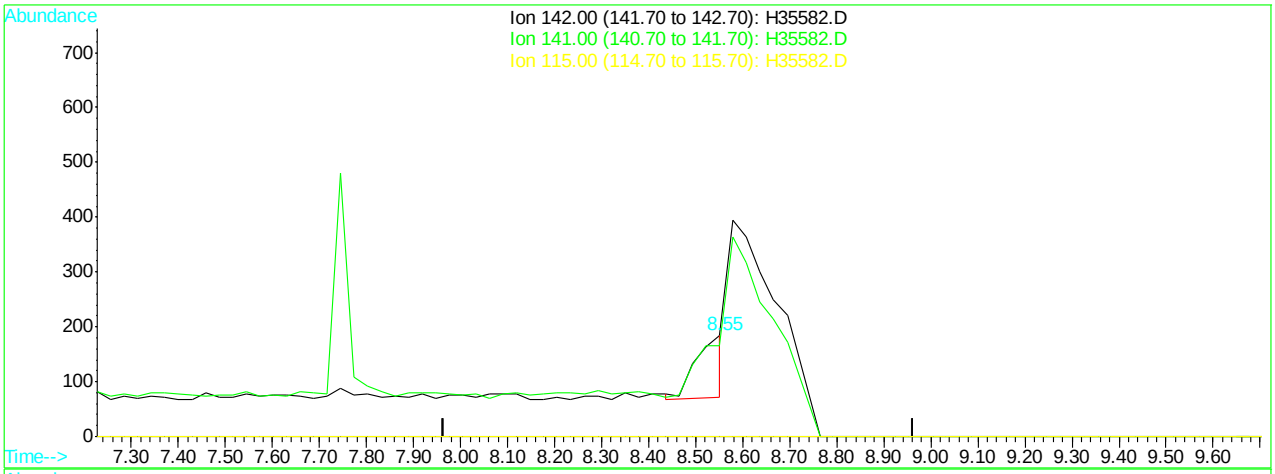


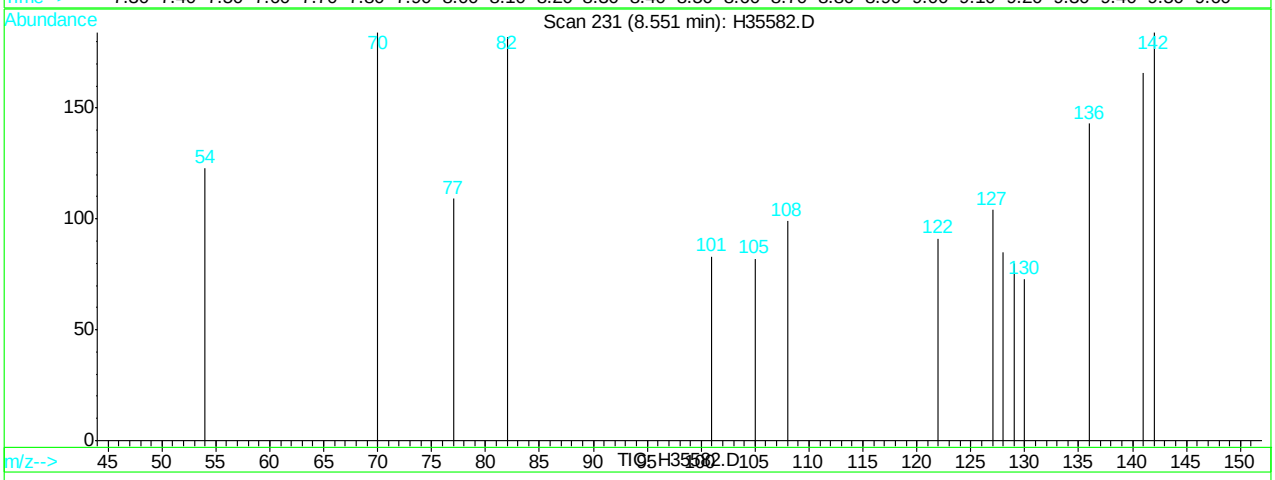
H35582.D H10239SP.M Tue Oct 27 15:20:23 2009 Page 2

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.03ppb m

response 480

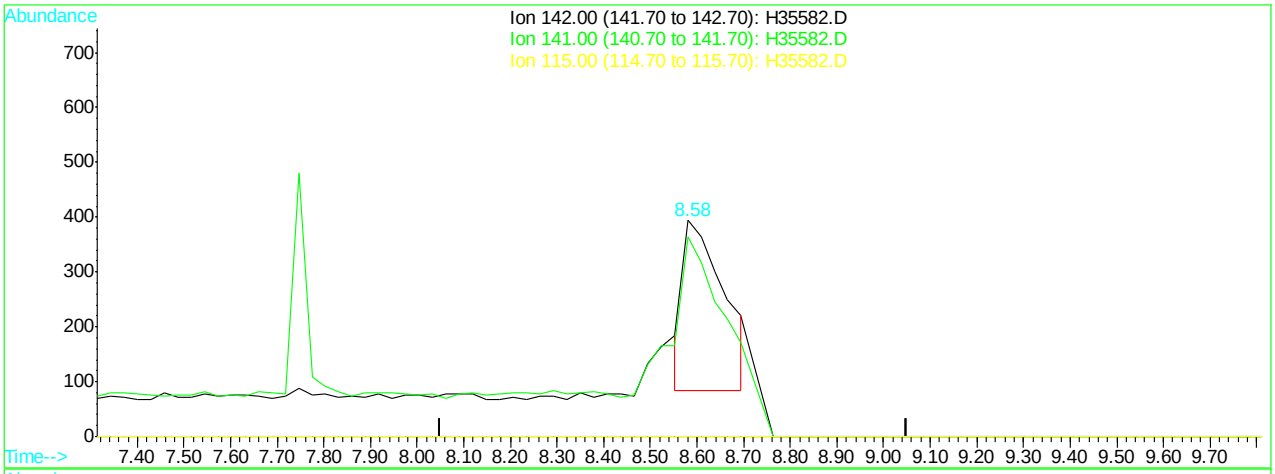
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	745.42#
115.00	0.00	0.00
0.00	0.00	0.00

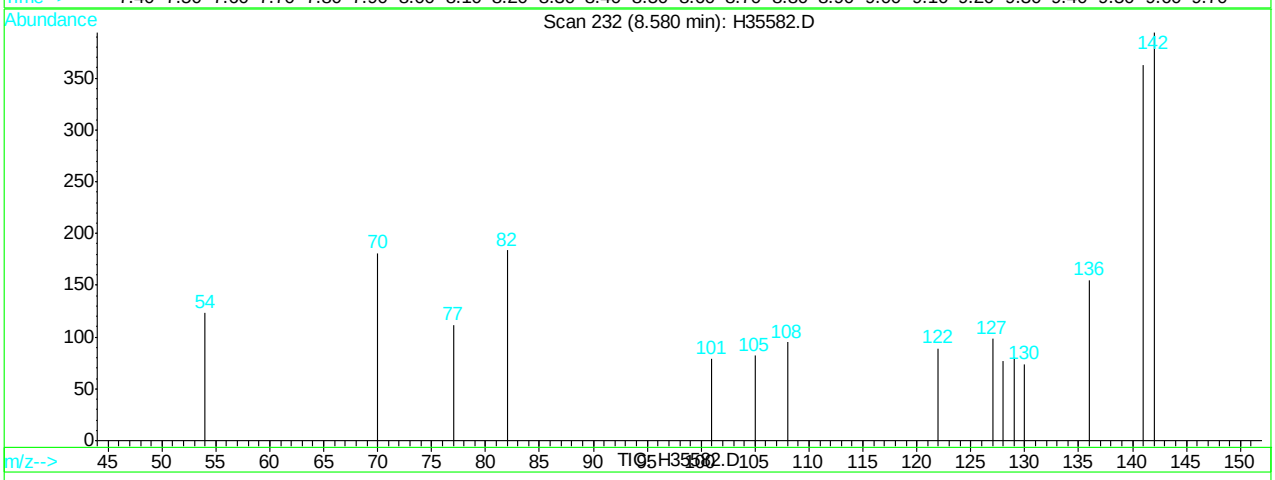
H35582.D H10239SP.M Tue Oct 27 15:20:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.06ppb m

response 1924

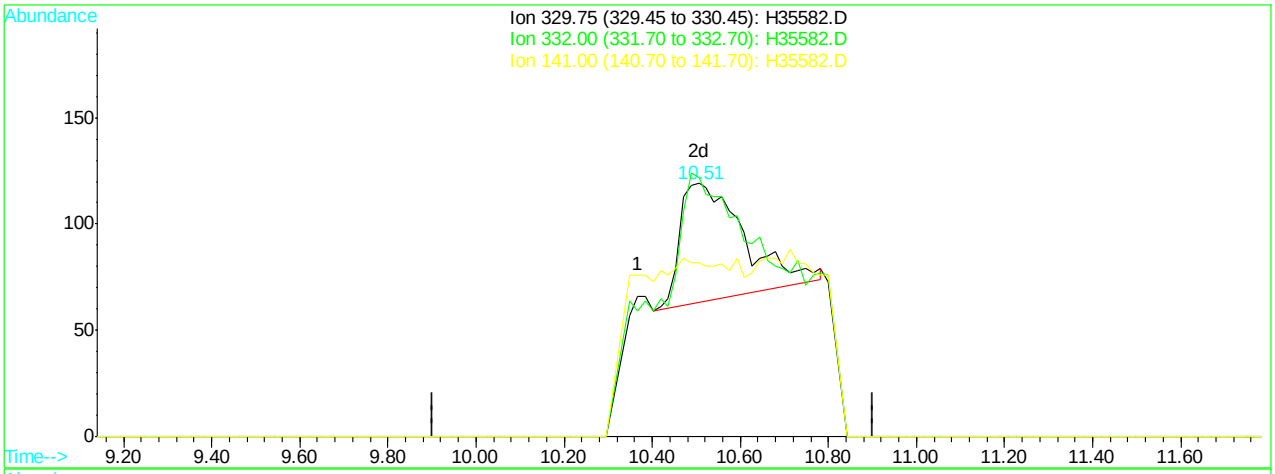
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	185.97#
115.00	0.00	0.00
0.00	0.00	0.00

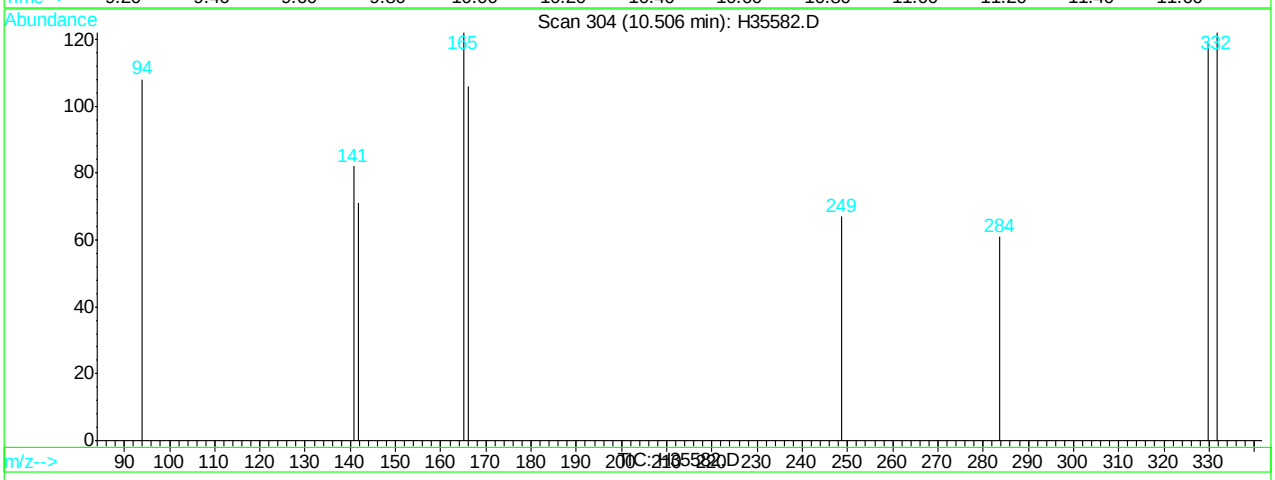
H35582.D H10239SP.M Tue Oct 27 15:20:49 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.51min 0.38ppb m

response 575

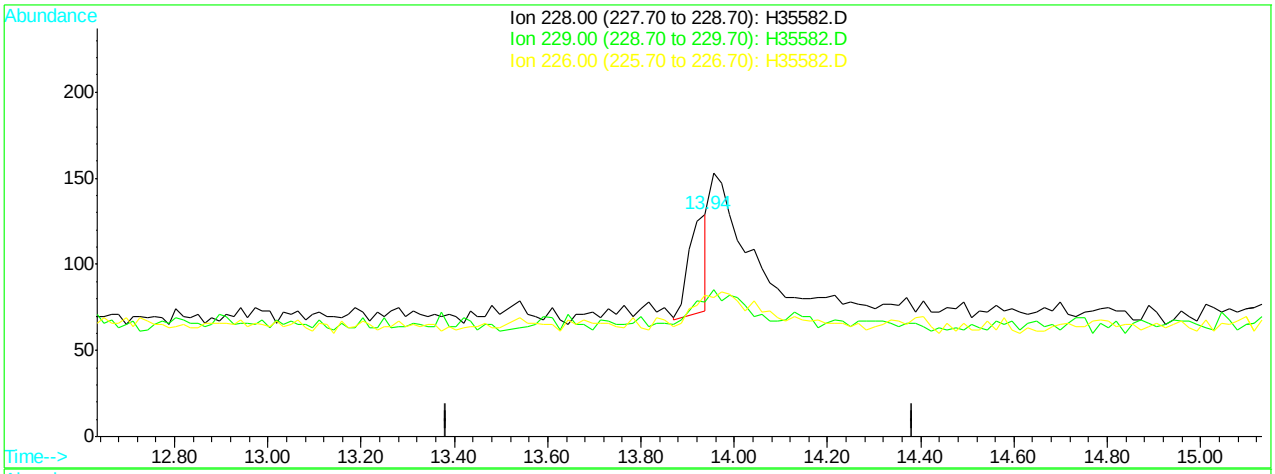
Ion	Exp%	Act%
329.75	100	100
332.00	97.50	68.87#
141.00	15.60	84.35#
0.00	0.00	0.00

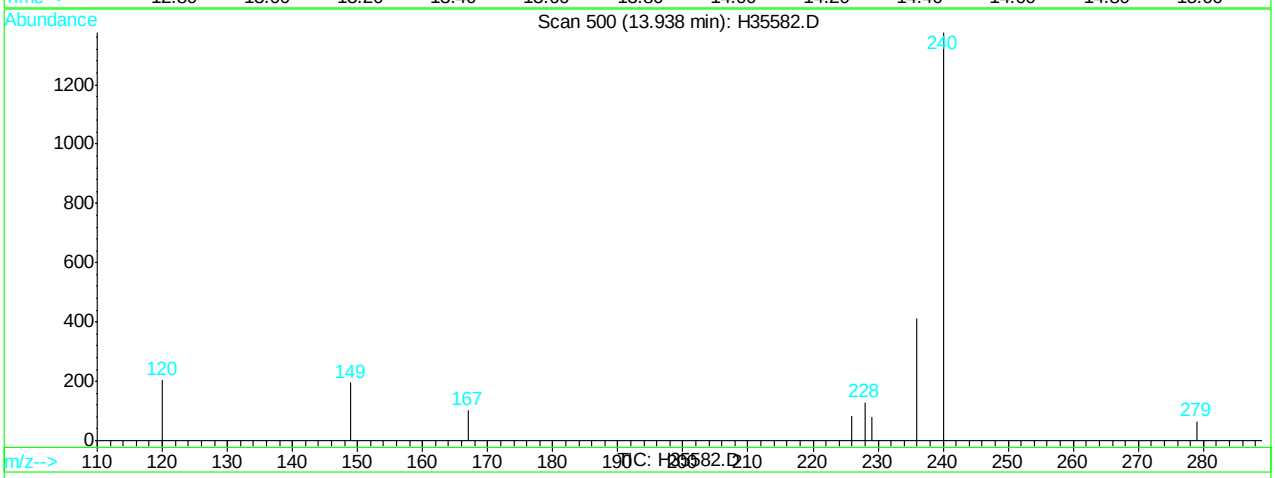
H35582.D H10239SP.M Tue Oct 27 15:20:53 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.94min 0.08ppb m

response 166

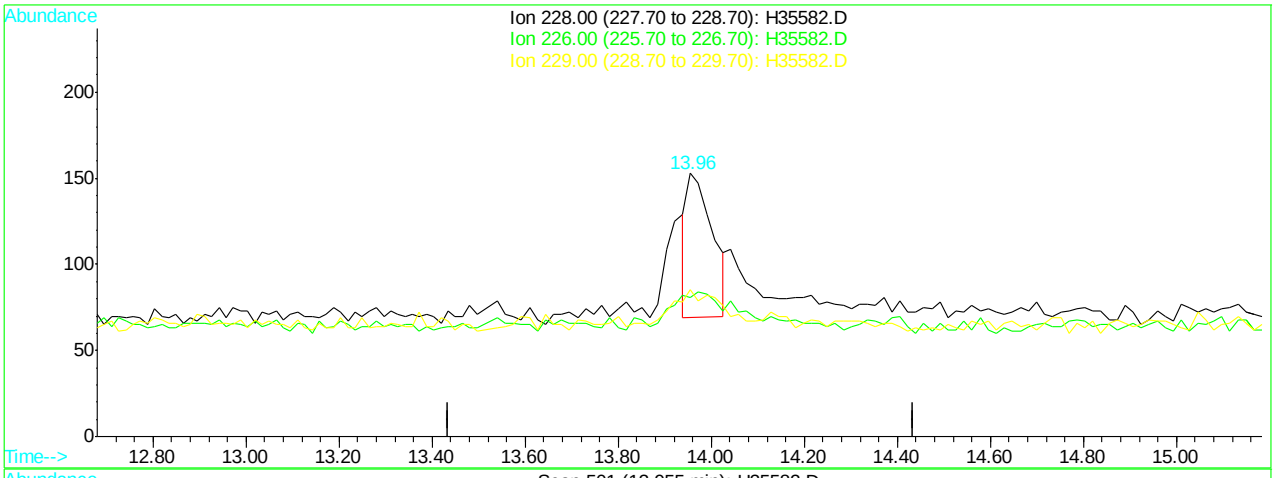
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	60.47#
226.00	27.40	63.57#
0.00	0.00	0.00

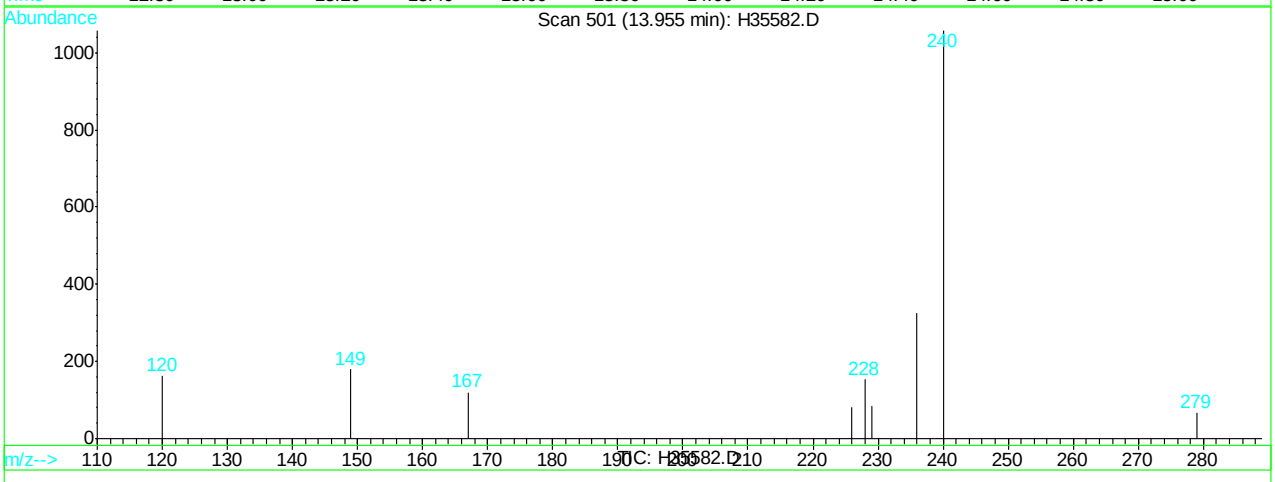
H35582.D H10239SP.M Tue Oct 27 15:20:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.96min 0.09ppb m

response 317

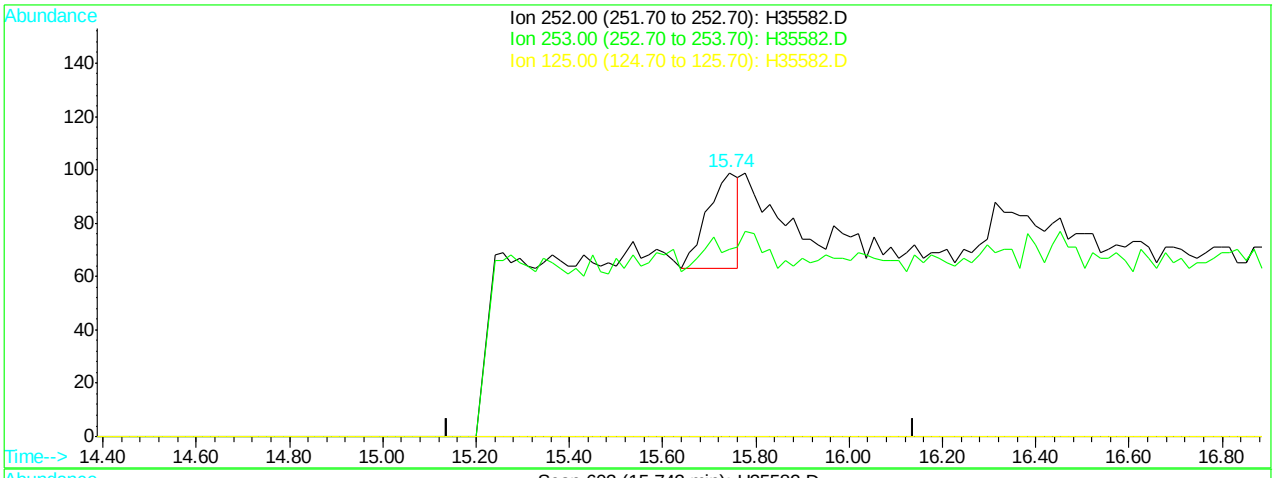
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	52.94#
229.00	20.20	55.56#
0.00	0.00	0.00

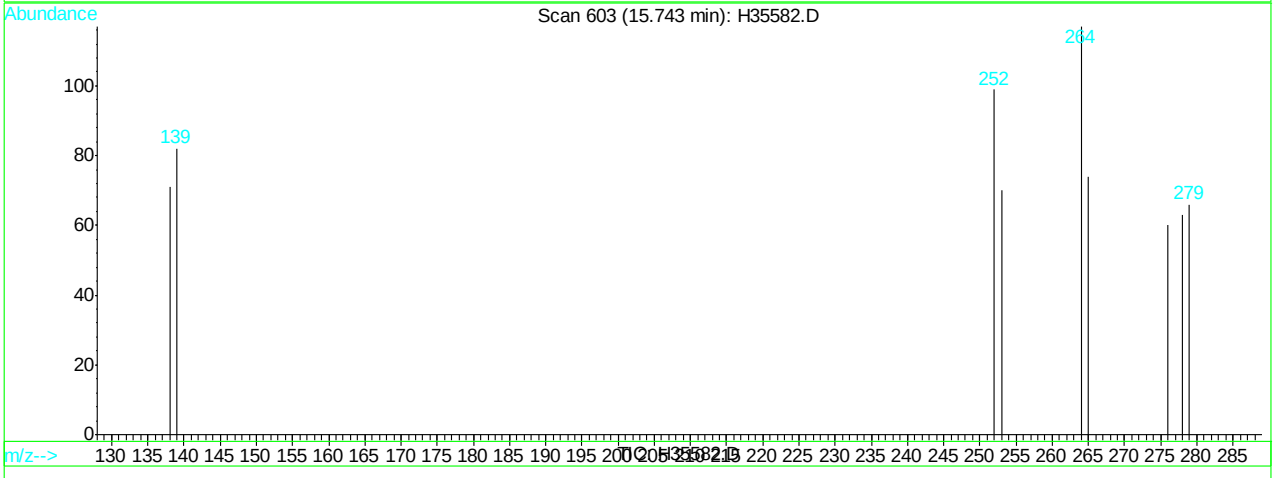
H35582.D H10239SP.M Tue Oct 27 15:21:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.74min 0.14ppb m

response 169

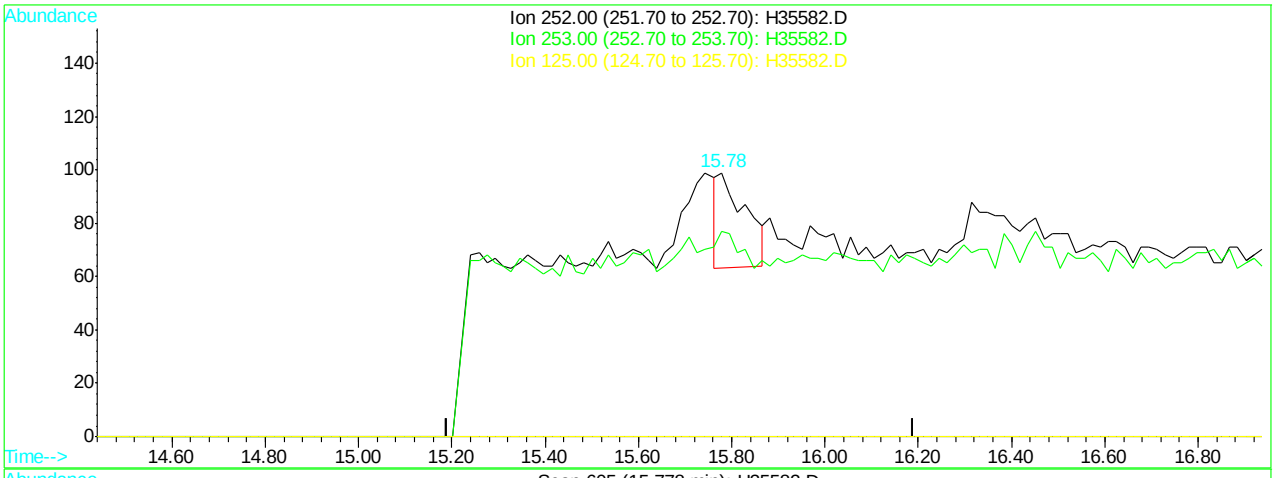
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	70.71#
125.00	0.00	0.00
0.00	0.00	0.00

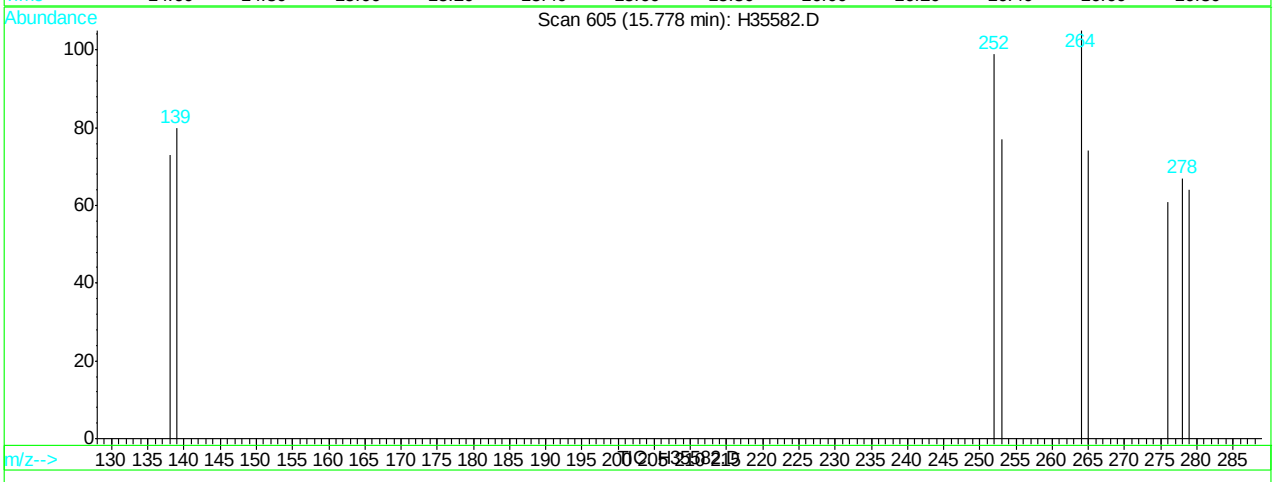
H35582.D H10239SP.M Tue Oct 27 15:21:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35582.D Vial: 4
Acq On : 23 Oct 2009 12:08 pm Operator: sheilac
Sample : ic1920-0.1 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.78min 0.07ppb m

response 149

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	77.78#
125.00	0.00	0.00
0.00	0.00	0.00

H35582.D H10239SP.M Tue Oct 27 15:21:09 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	85205	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	63649	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	51651	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	51126	4.00	ppb	0.02
21) Chrysene-d12	13.94	240	7193	4.00	ppb	0.03
26) Perylene-d12	16.40	264	3706	4.00	ppb	0.04

System Monitoring Compounds						
5) Nitrobenzene-d5	6.42	82	708	0.16	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	3.20%#	
10) 2-Fluorobiphenyl	8.90	172	25082	0.60	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	12.00%#	
16) 2,4,6-Tribromophenol	10.47	330	1445m	0.92	ppb	0.07
Spiked Amount 10.000	Range 10 - 123		Recovery	=	9.20%#	
23) Terphenyl-d14	12.69	244	1024	0.57	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	11.40%	

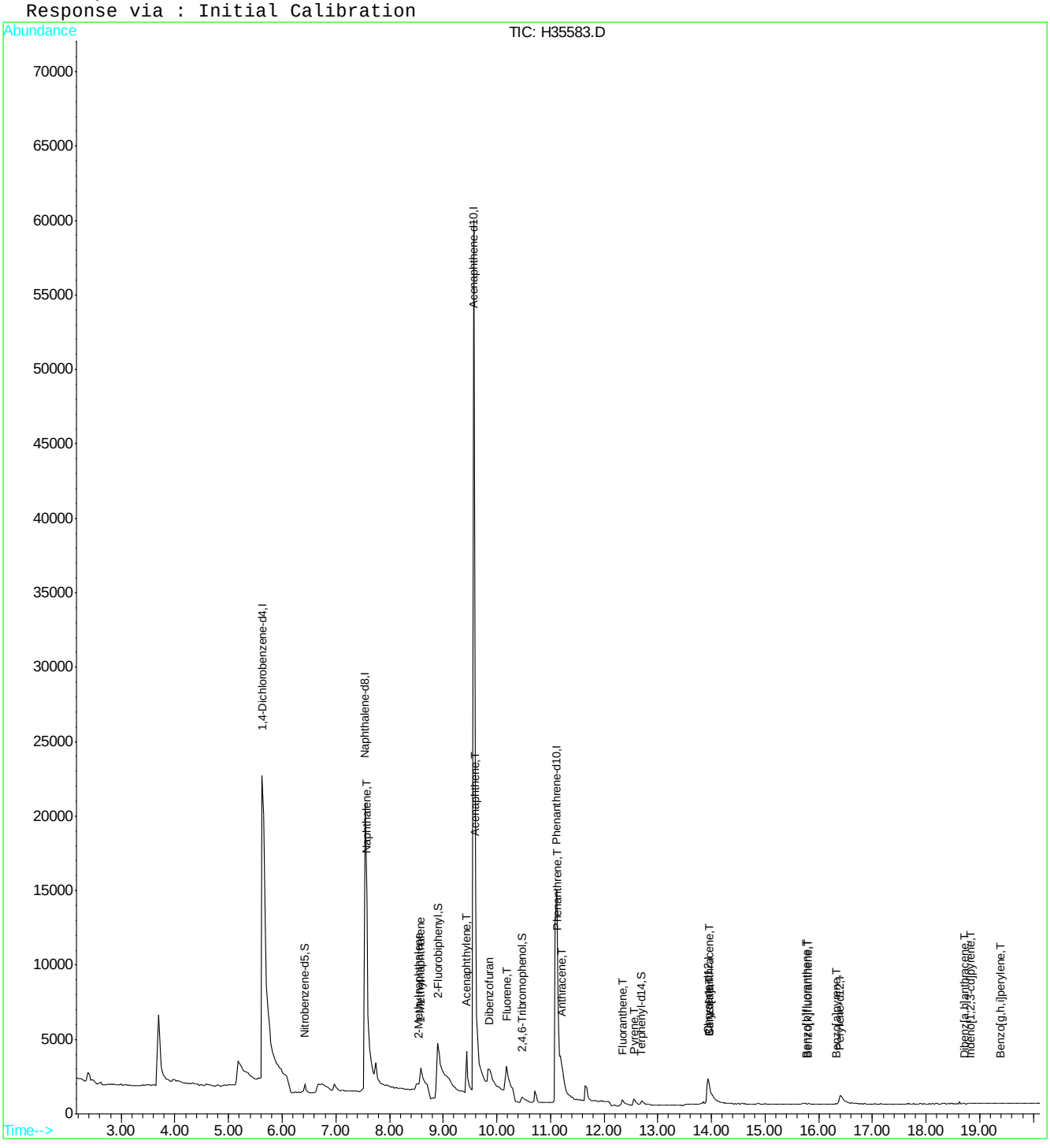
Target Compounds							Qvalue
6) Naphthalene	7.57	128	4750	0.14	ppb		95
7) 2-Methylnaphthalene	8.55	142	1205m	0.06	ppb		
8) 1-Methylnaphthalene	8.58	142	3921m	0.12	ppb		
11) Acenaphthylene	9.44	152	5491	0.16	ppb		92
12) Acenaphthene	9.60	153	5259	0.17	ppb		89
13) Dibenzofuran	9.87	168	5741	0.15	ppb	#	92
14) Fluorene	10.19	166	2903	0.14	ppb		89
18) Phenanthrene	11.13	178	3950m	0.16	ppb		
19) Anthracene	11.21	178	5407	0.19	ppb		92
20) Fluoranthene	12.34	202	1466	0.11	ppb		98
22) Pyrene	12.56	202	1787	0.15	ppb		100
24) Benzo[a]anthracene	13.95	228	287m	0.15	ppb		
25) Chrysene	13.95	228	561m	0.18	ppb		
27) Benzo[b]fluoranthene	15.76	252	207m	0.21	ppb		
28) Benzo[k]fluoranthene	15.79	252	123m	0.08	ppb		
29) Benzo[a]pyrene	16.33	252	77	0.06	ppb	#	56
30) Indeno[1,2,3-cd]pyrene	18.82	276	48	0.06	ppb	#	45
31) Dibenz[a,h]anthracene	18.72	278	18	0.03	ppb	#	1
32) Benzo[g,h,i]perylene	19.39	276	43	0.06	ppb	#	1

(#) = qualifier out of range (m) = manual integration
H35583.D H10239SP.M Tue Oct 27 15:21:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: H10239SP.RES

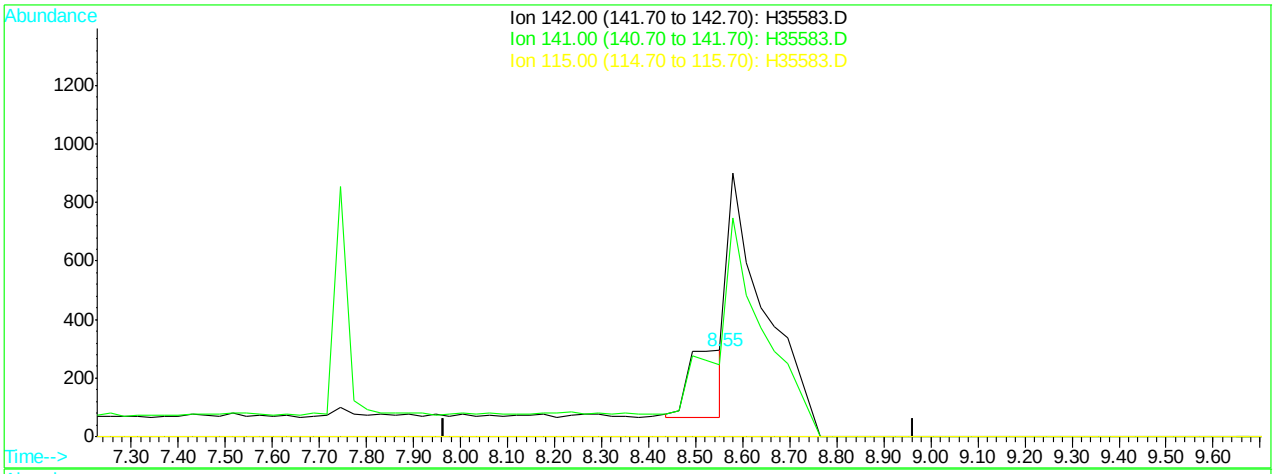
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

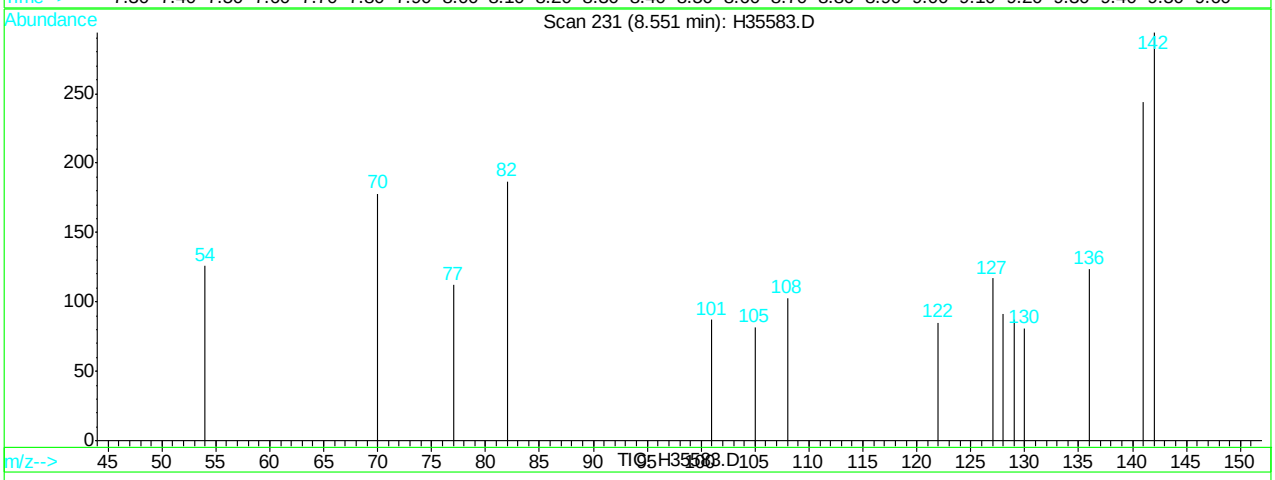


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.06ppb m

response 1205

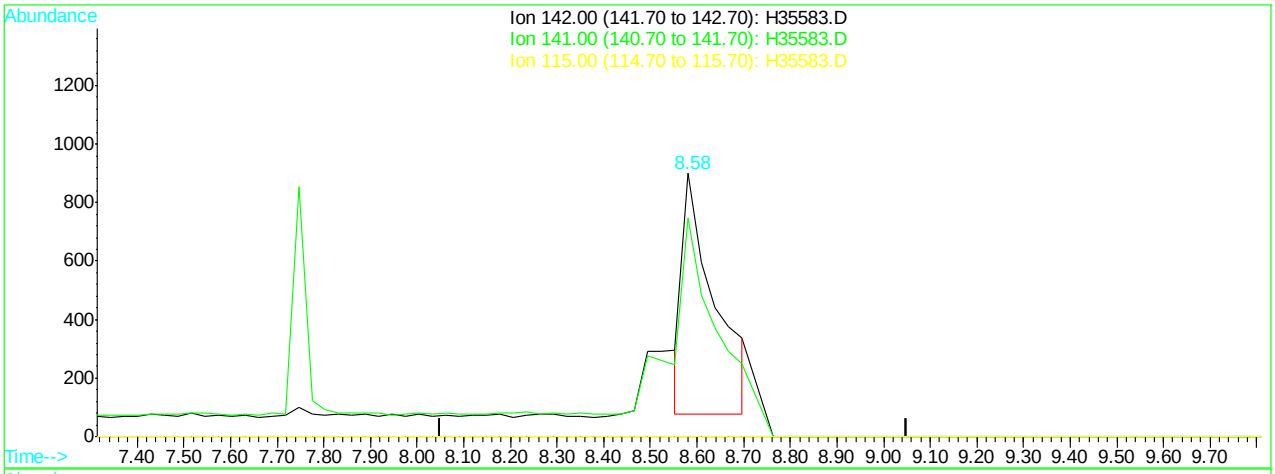
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	483.07#
115.00	0.00	0.00
0.00	0.00	0.00

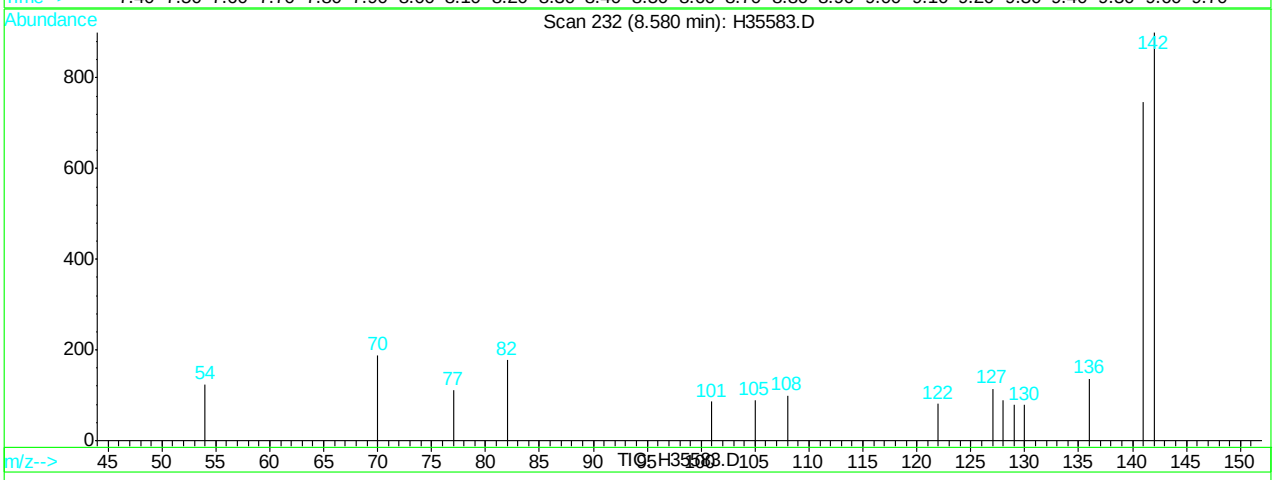
H35583.D H10239SP.M Tue Oct 27 15:21:40 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.12ppb m

response 3921

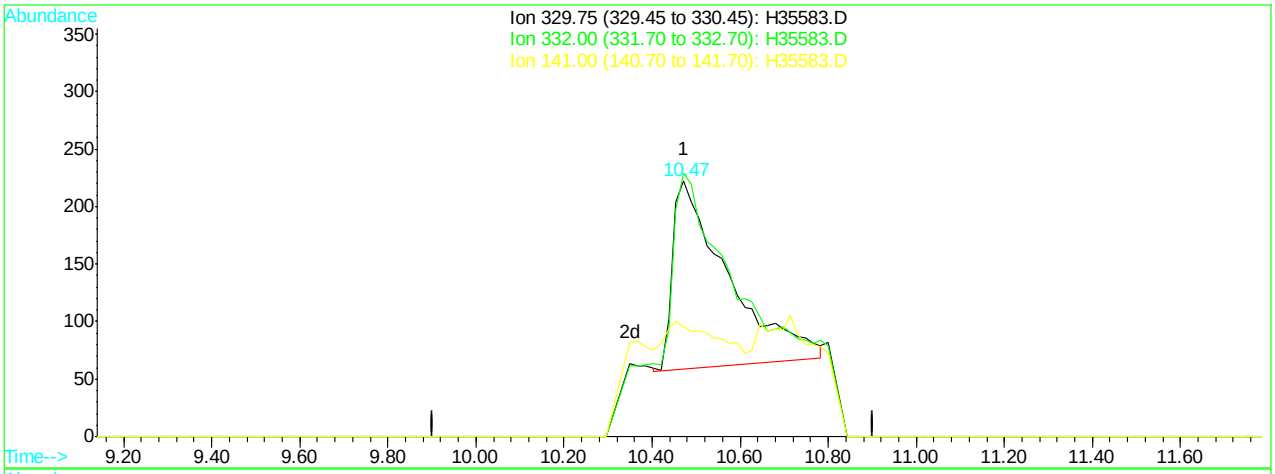
Ion	Exp%	Act%
142.00	100	100
141.00	135.10	148.46
115.00	0.00	0.00
0.00	0.00	0.00

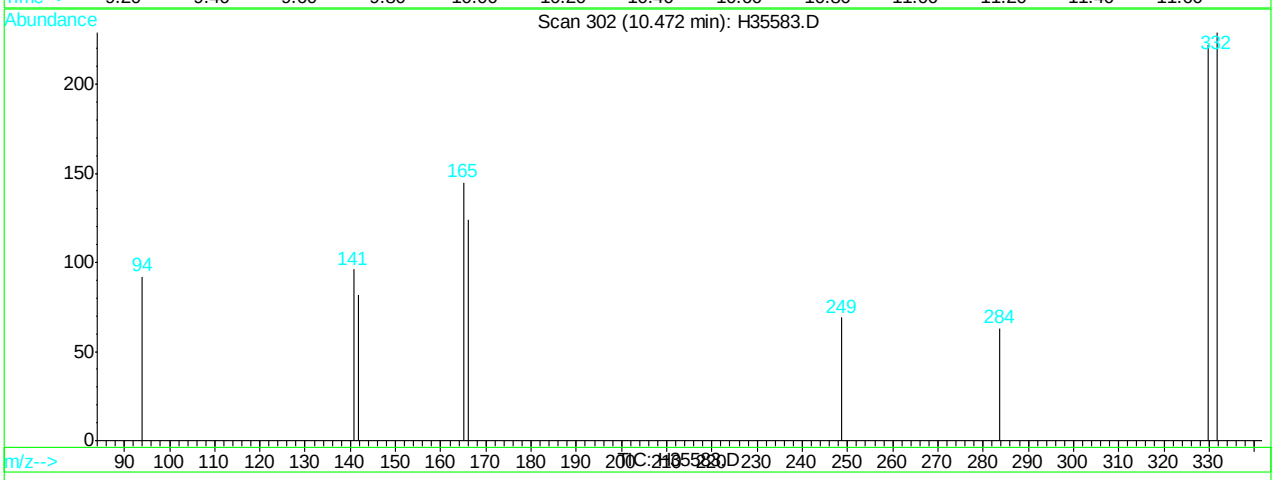
H35583.D H10239SP.M Tue Oct 27 15:21:43 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.47min 0.92ppb m

response 1445

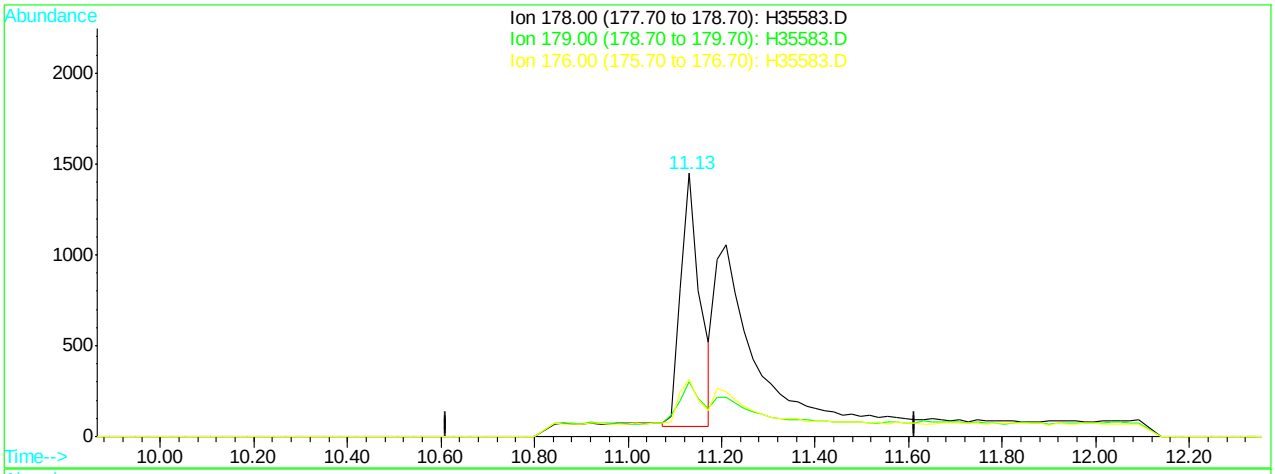
Ion	Exp%	Act%
329.75	100	100
332.00	97.50	256.61#
141.00	15.60	75.50#
0.00	0.00	0.00

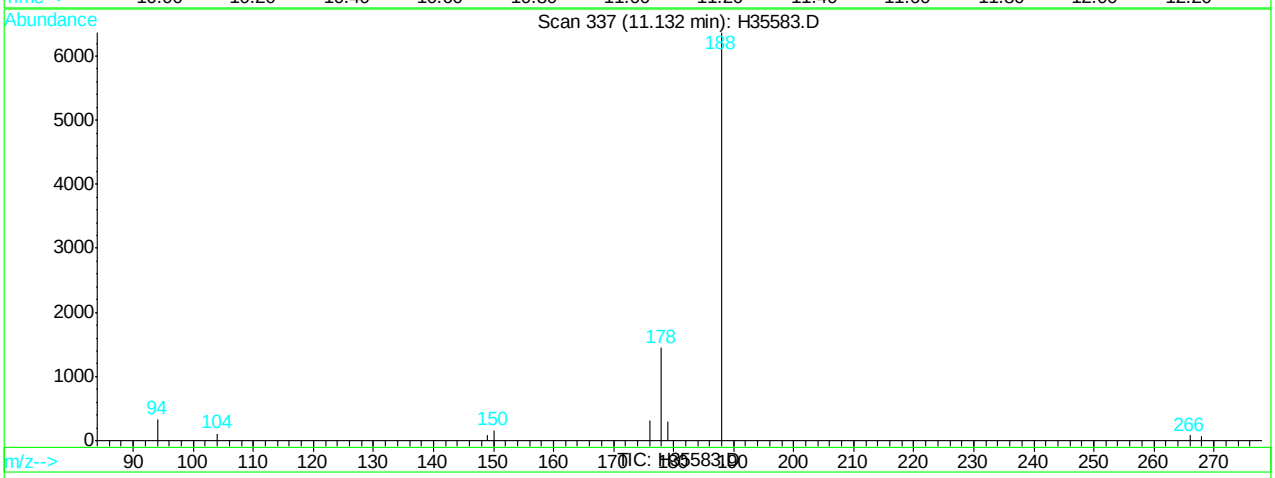
H35583.D H10239SP.M Tue Oct 27 15:21:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.13min 0.16ppb m

response 3950

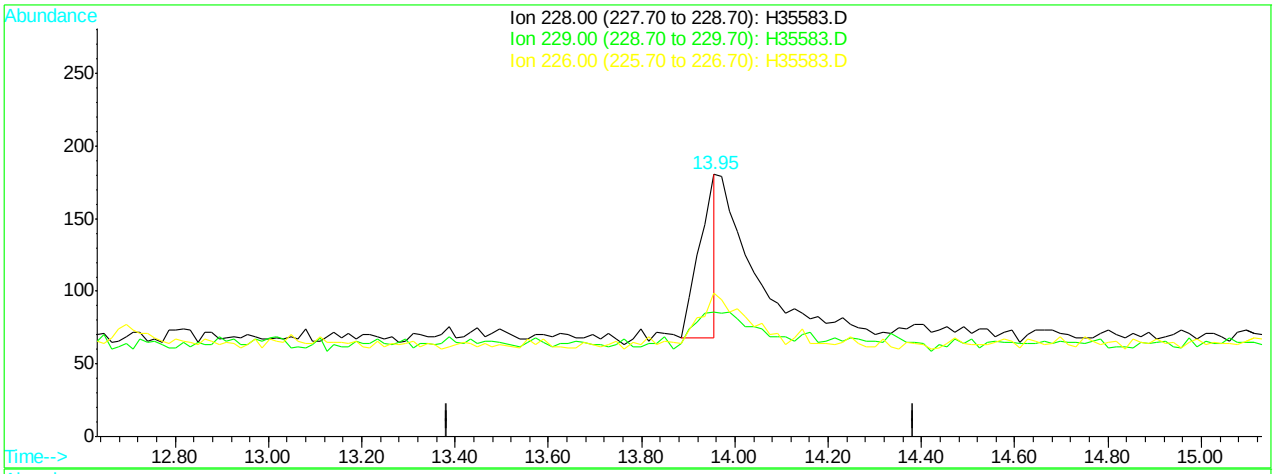
Ion	Exp%	Act%
178.00	100	100
179.00	11.60	20.98#
176.00	24.90	21.88
0.00	0.00	0.00

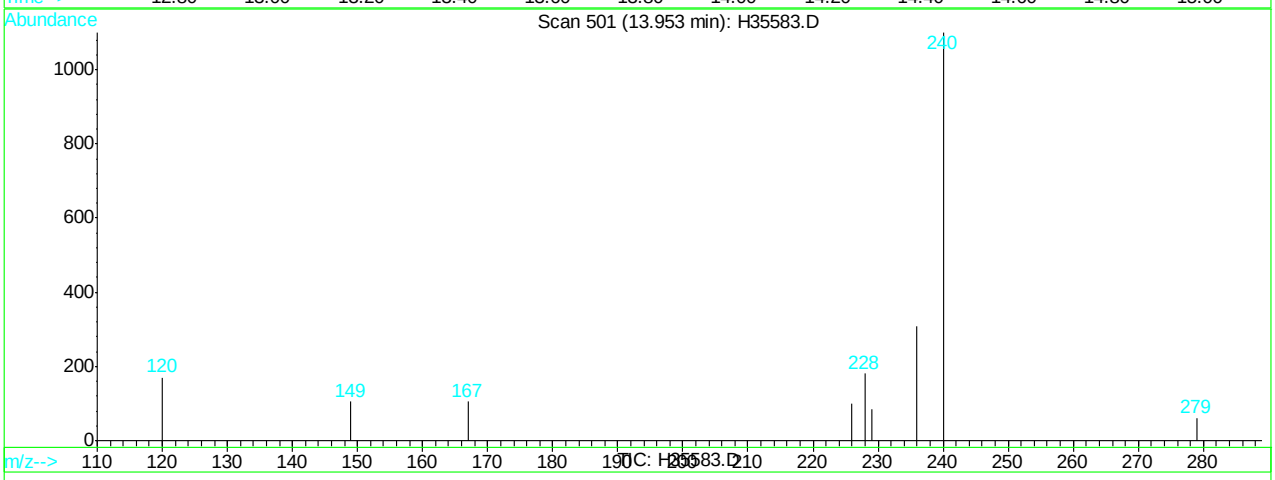
H35583.D H10239SP.M Tue Oct 27 15:21:54 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.95min 0.15ppb m

response 287

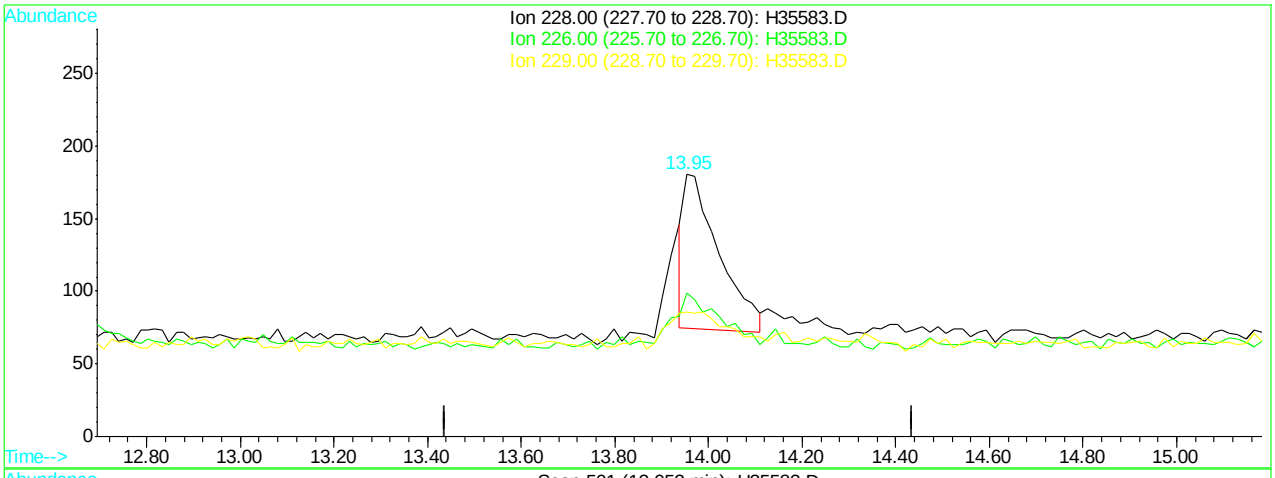
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	47.51#
226.00	27.40	54.70#
0.00	0.00	0.00

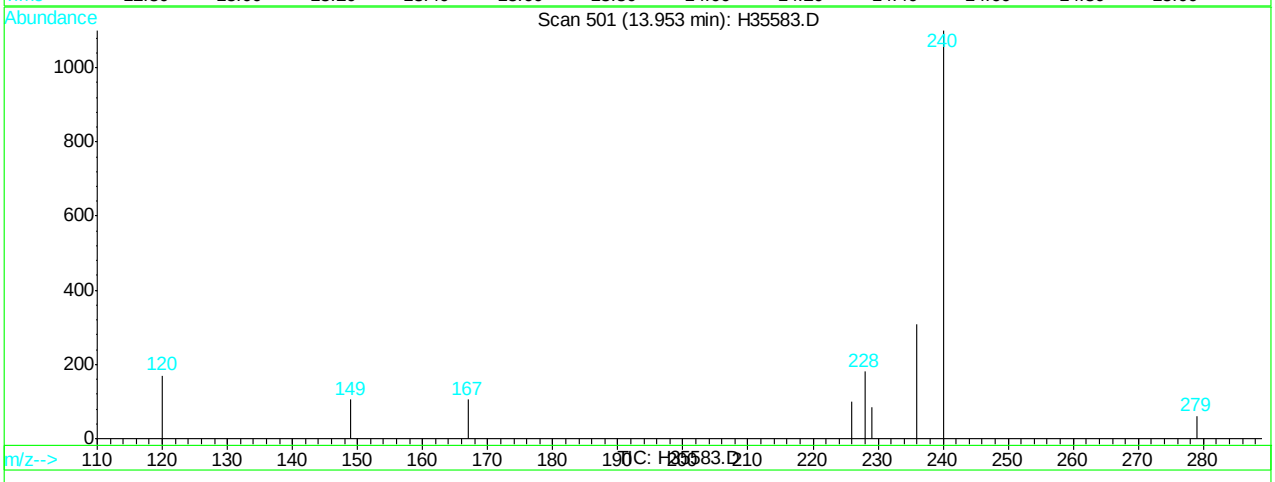
H35583.D H10239SP.M Tue Oct 27 15:21:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.18ppb m

response 561

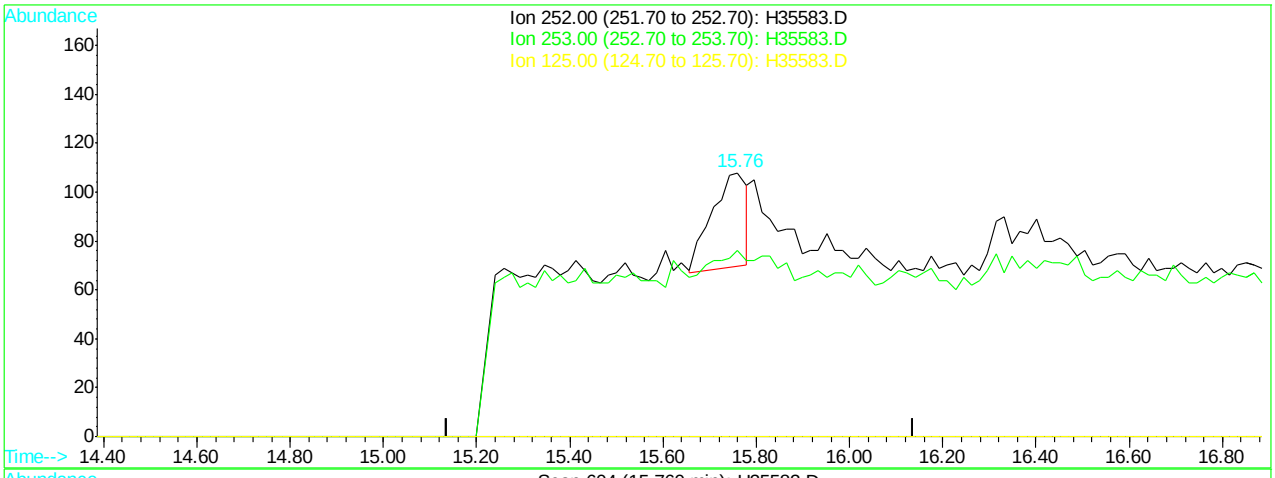
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	54.70#
229.00	20.20	47.51#
0.00	0.00	0.00

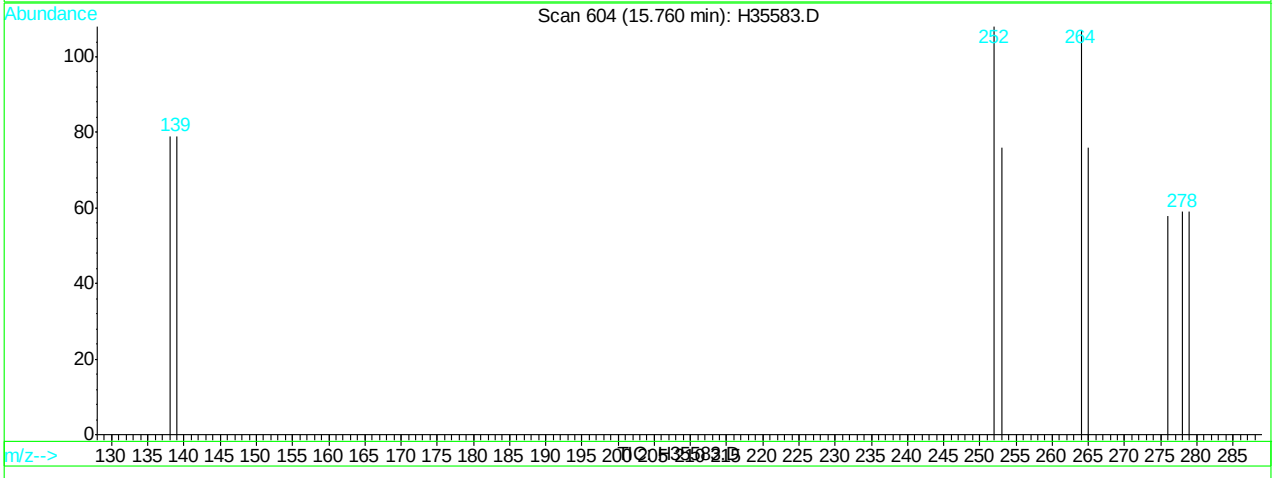
H35583.D H10239SP.M Tue Oct 27 15:22:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.76min 0.21ppb m

response 207

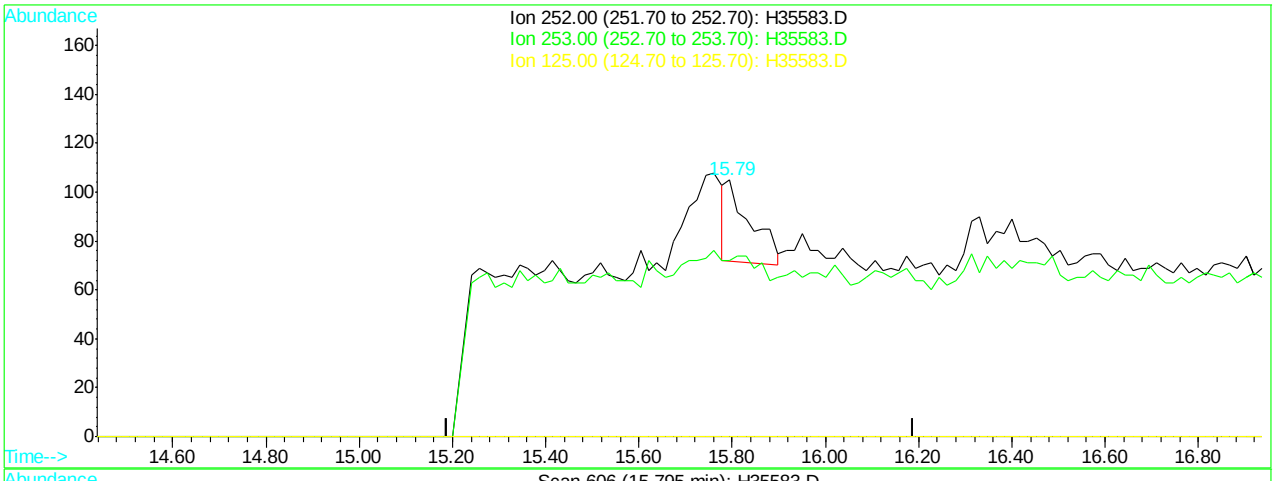
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	70.37#
125.00	0.00	0.00
0.00	0.00	0.00

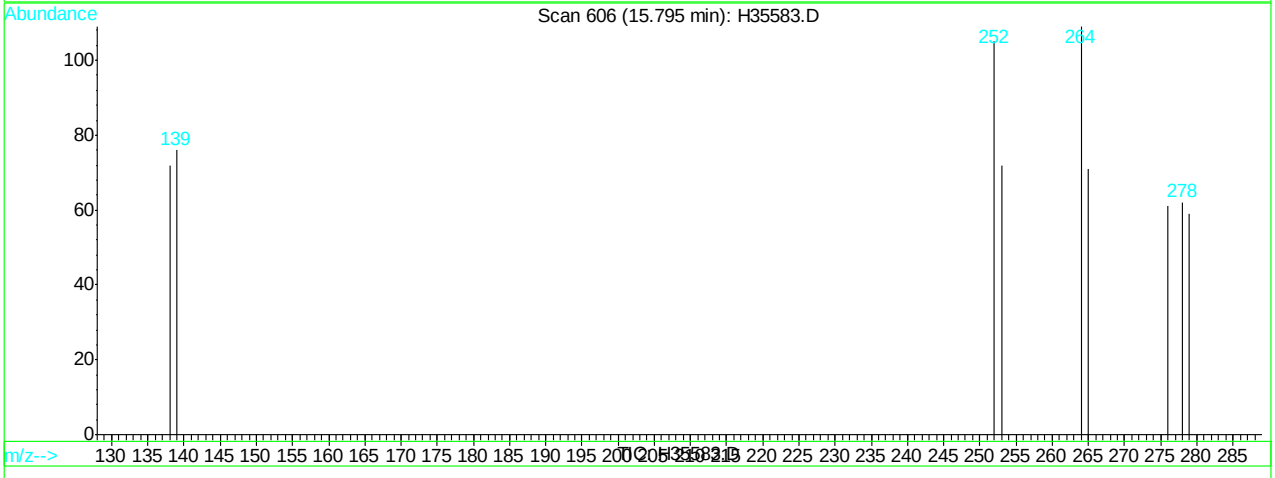
H35583.D H10239SP.M Tue Oct 27 15:22:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35583.D Vial: 5
Acq On : 23 Oct 2009 12:40 pm Operator: sheilac
Sample : ic1920-0.2 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:01 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.79min 0.08ppb m

response 123

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	68.57#
125.00	0.00	0.00
0.00	0.00	0.00

H35583.D H10239SP.M Tue Oct 27 15:22:12 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	102874	4.00	ppb	-0.03
4) Naphthalene-d8	7.54	136	94728	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	73734	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	85223	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10579	4.00	ppb	0.00
26) Perylene-d12	16.38	264	3626	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	83261	12.98	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 259.60%#			
10) 2-Fluorobiphenyl	8.87	172	986966	16.59	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 331.80%#			
16) 2,4,6-Tribromophenol	10.40	330	179757	68.76	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 687.60%#			
23) Terphenyl-d14	12.66	244	85395	32.41	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 648.20%#			

Target Compounds

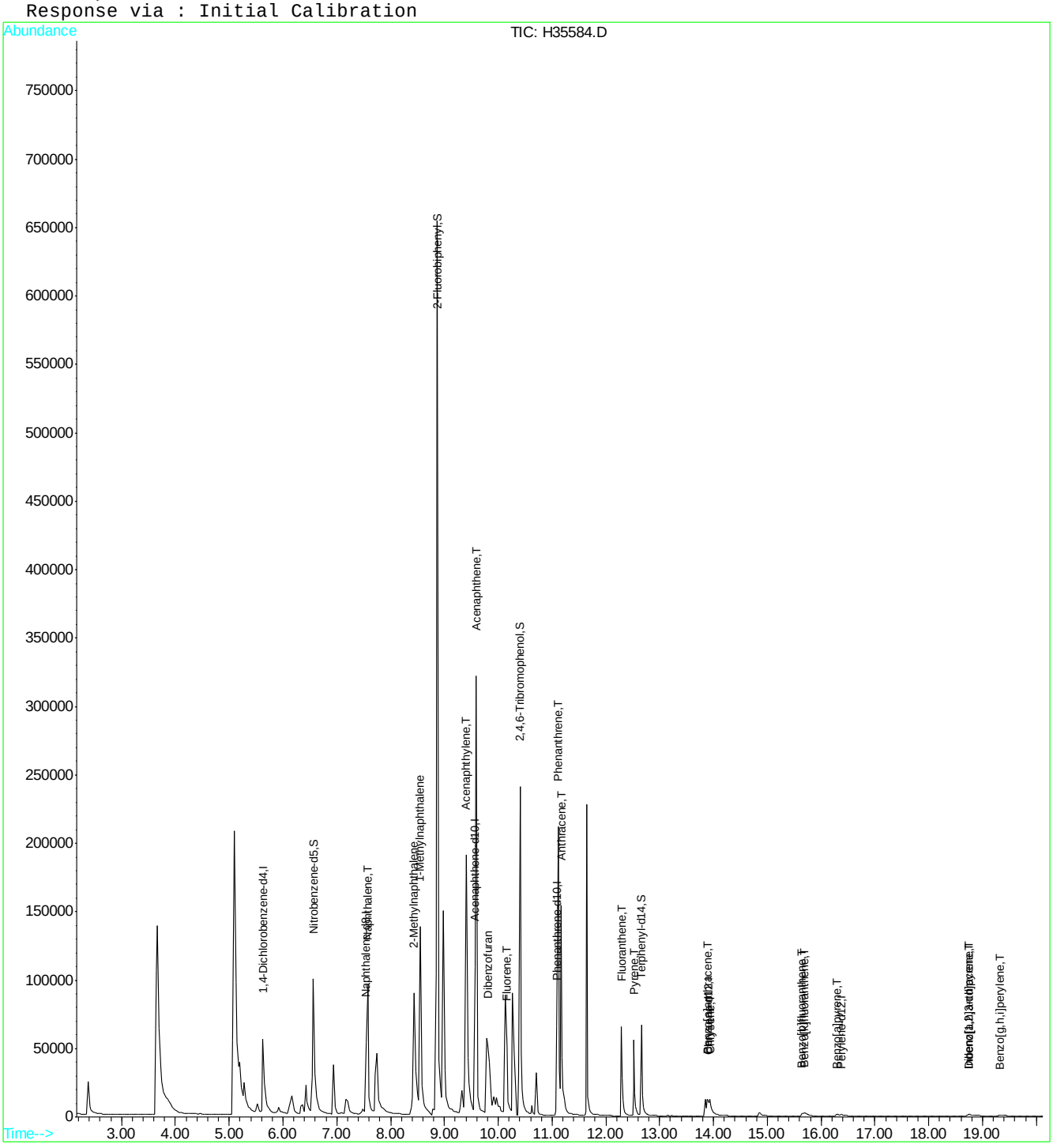
							Qvalue
6) Naphthalene	7.57	128	131910	2.67	ppb	#	90
7) 2-Methylnaphthalene	8.44	142	150782	5.31	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	198968	3.99	ppb	#	53
11) Acenaphthylene	9.41	152	254664m	5.23	ppb		
12) Acenaphthene	9.59	153	211244	4.78	ppb	#	74
13) Dibenzofuran	9.81	168	121389	2.27	ppb		87
14) Fluorene	10.16	166	83315	2.90	ppb		94
18) Phenanthrene	11.11	178	208638	5.20	ppb	#	87
19) Anthracene	11.17	178	202396	4.37	ppb	#	86
20) Fluoranthene	12.29	202	105299	4.71	ppb		97
22) Pyrene	12.52	202	100235m	5.74	ppb		
24) Benzo[a]anthracene	13.88	228	11718m	4.09	ppb		
25) Chrysene	13.94	228	26802m	5.69	ppb		
27) Benzo[b]fluoranthene	15.64	252	5387m	5.58	ppb		
28) Benzo[k]fluoranthene	15.69	252	11016m	6.96	ppb		
29) Benzo[a]pyrene	16.30	252	6594	5.48	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.75	276	4576	5.89	ppb		94
31) Dibenz[a,h]anthracene	18.75	278	3080	4.92	ppb		96
32) Benzo[g,h,i]perylene	19.32	276	3995	5.38	ppb		90

(#) = qualifier out of range (m) = manual integration
H35584.D H10239SP.M Tue Oct 27 15:22:23 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: H10239SP.RES

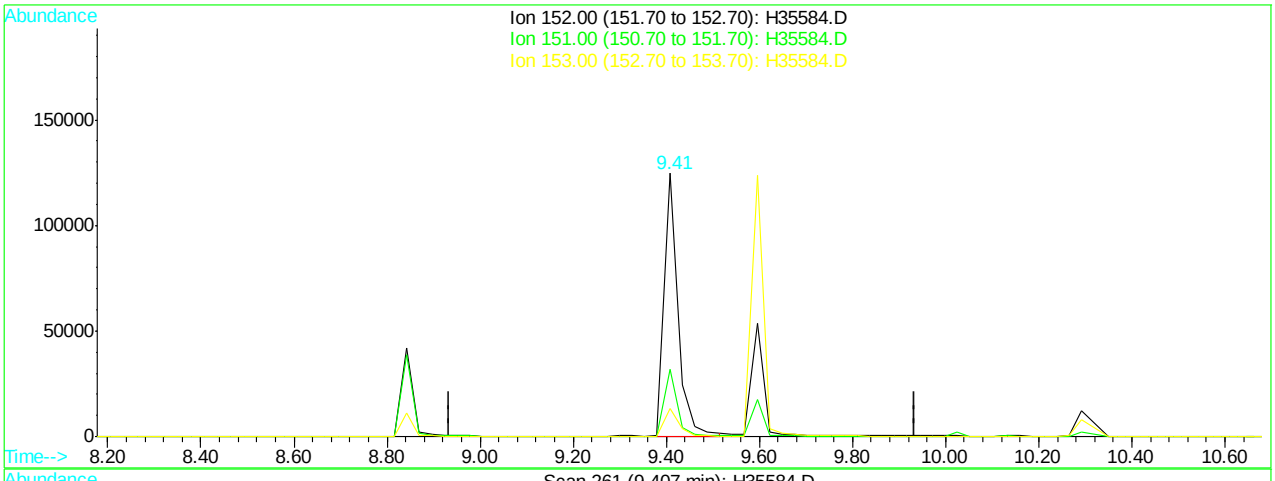
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

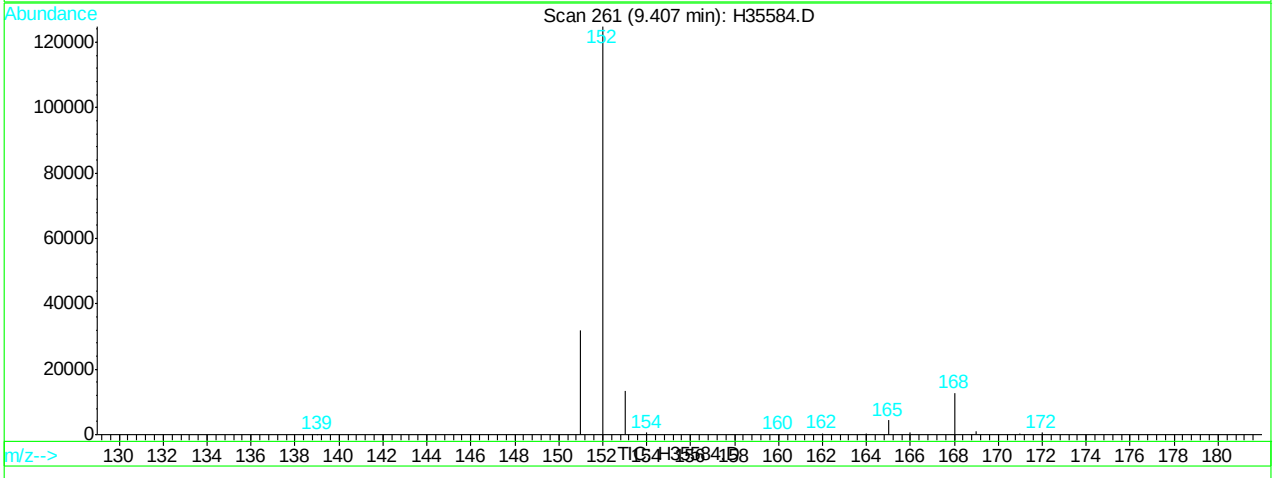


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(11) Acenaphthylene (T)

9.41min 5.23ppb m

response 254664

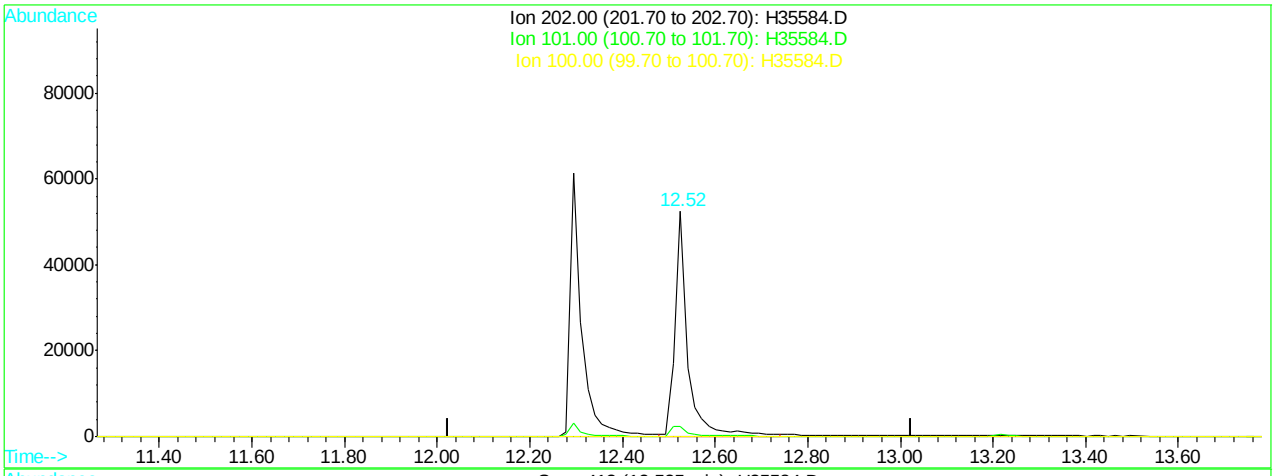
Ion	Exp%	Act%
152.00	100	100
151.00	18.20	25.61#
153.00	15.60	10.85#
0.00	0.00	0.00

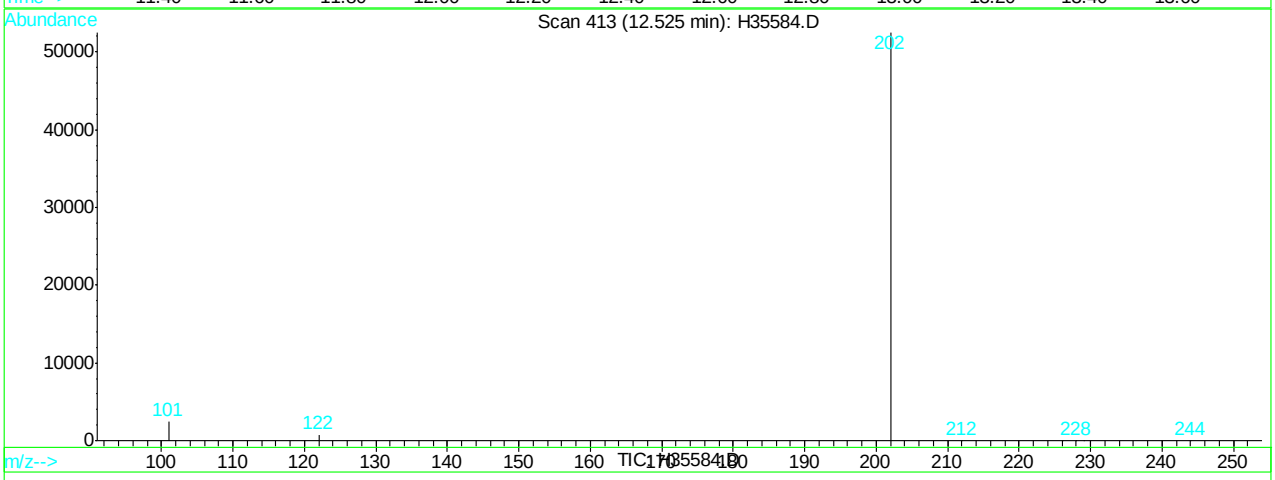
H35584.D H10239SP.M Tue Oct 27 15:23:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.52min 5.74ppb m

response 100235

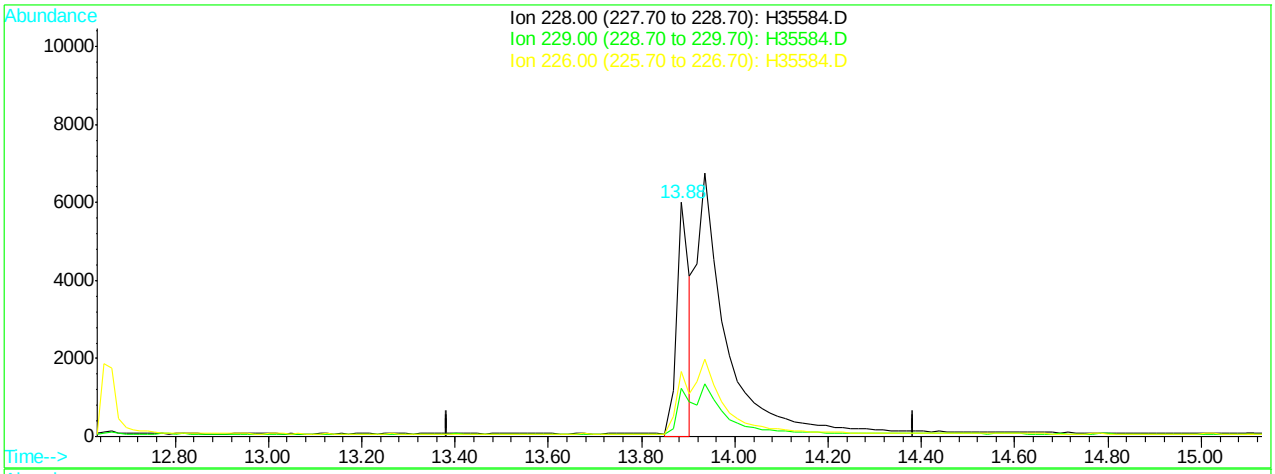
Ion	Exp%	Act%
202.00	100	100
101.00	6.80	4.74#
100.00	0.00	0.00
0.00	0.00	0.00

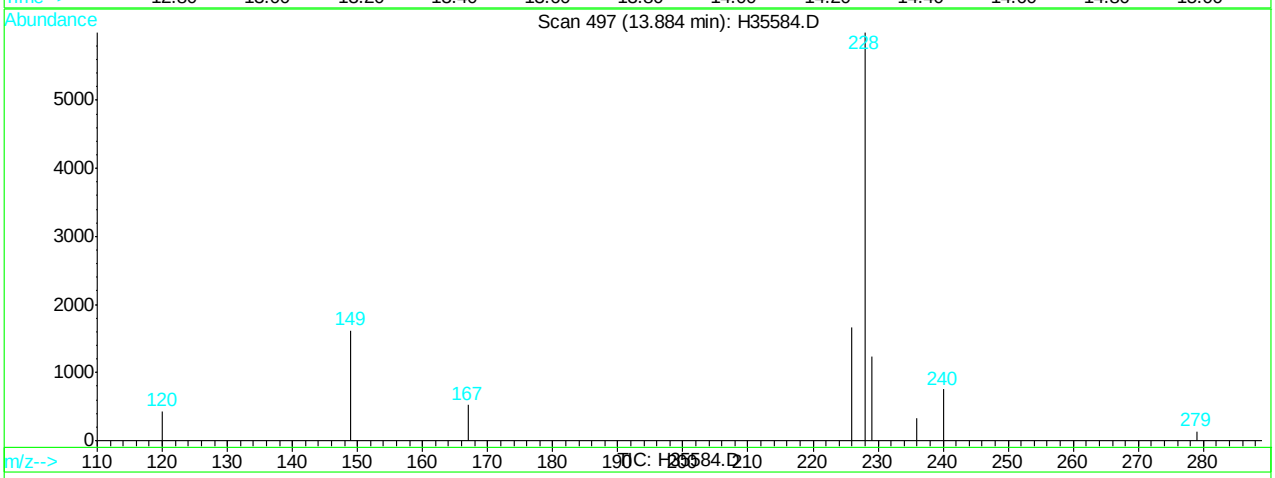
H35584.D H10239SP.M Tue Oct 27 15:23:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 4.09ppb m

response 11718

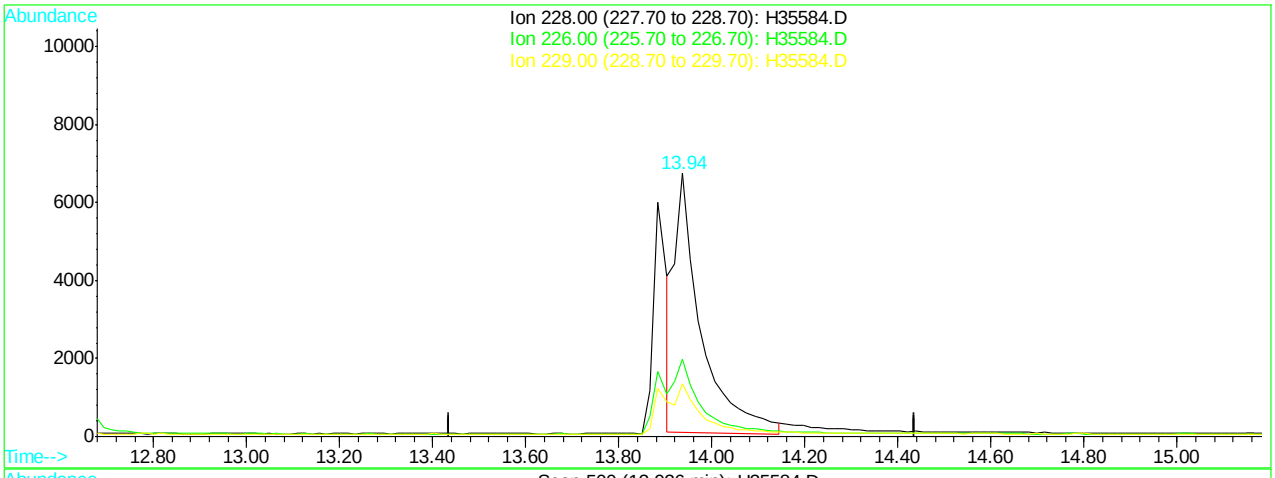
Ion	Exp%	Act%
228.00	100	100
229.00	19.80	20.60
226.00	27.40	27.64
0.00	0.00	0.00

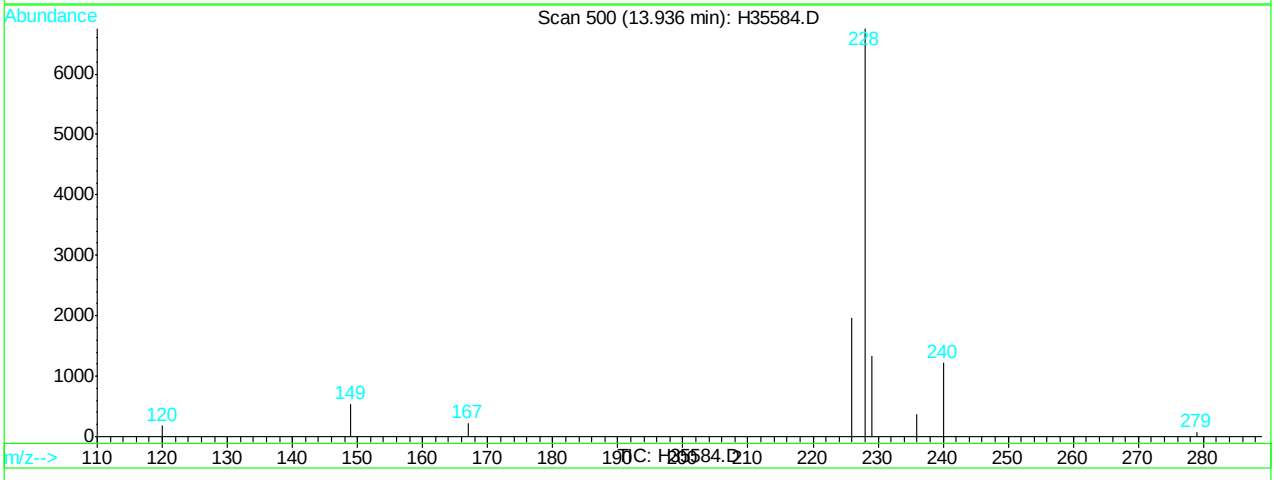
H35584.D H10239SP.M Tue Oct 27 15:23:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 5.69ppb m

response 26802

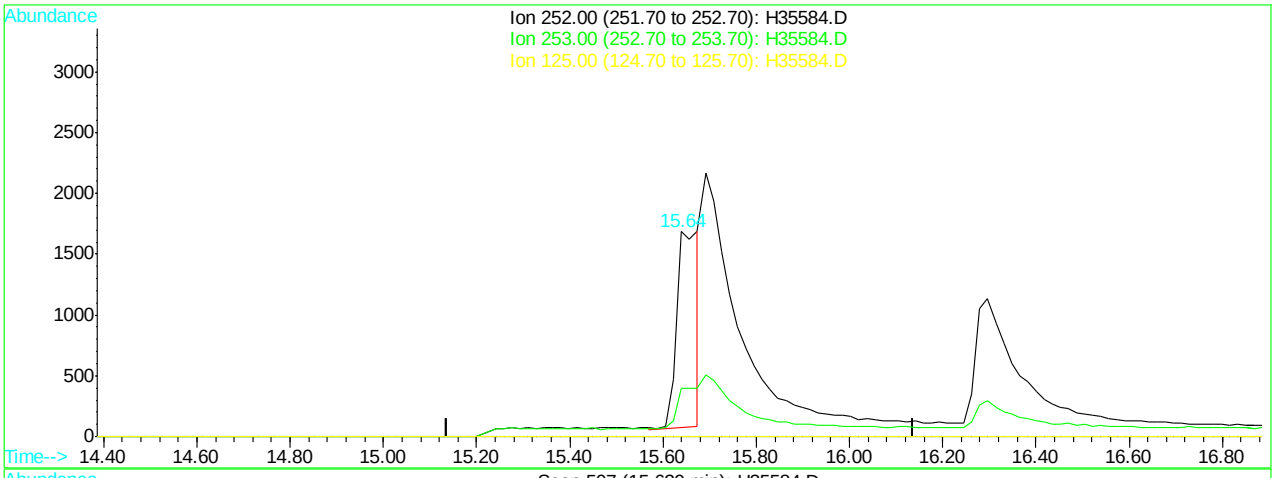
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	29.24
229.00	20.20	19.92
0.00	0.00	0.00

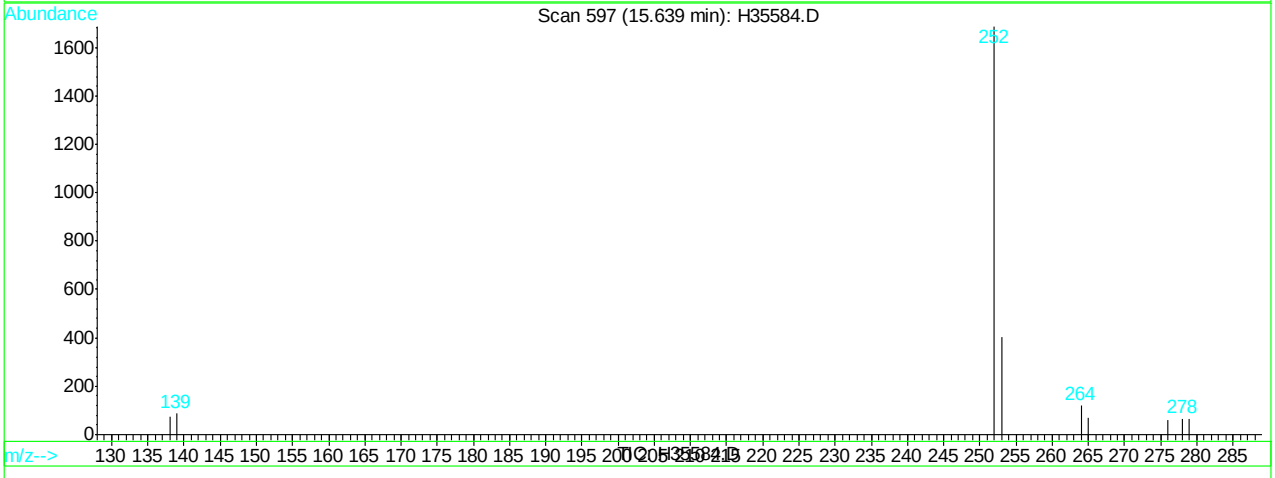
H35584.D H10239SP.M Tue Oct 27 15:23:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 5.58ppb m

response 5387

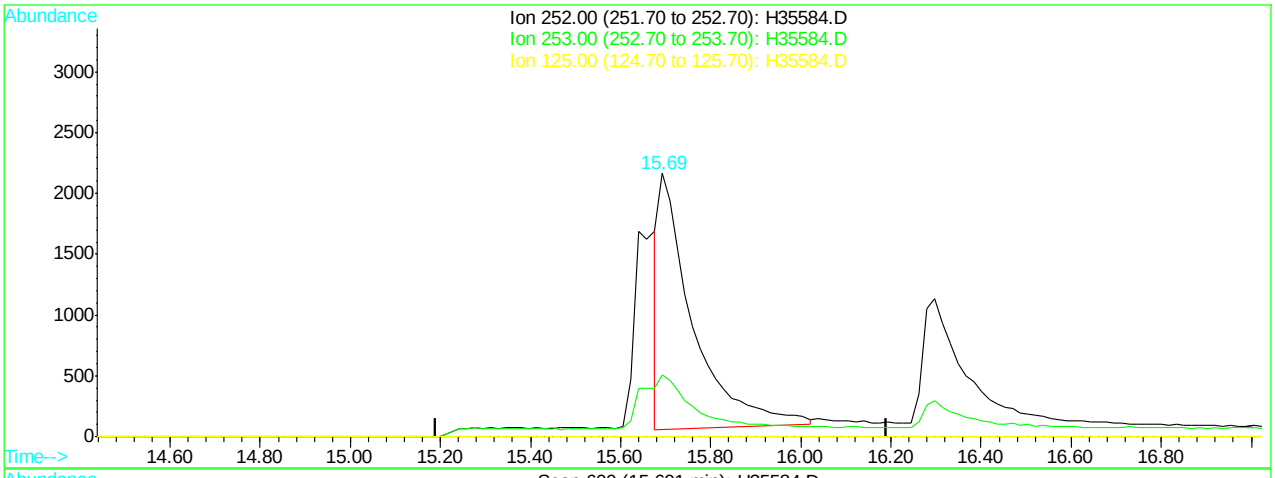
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	23.78
125.00	0.00	0.00
0.00	0.00	0.00

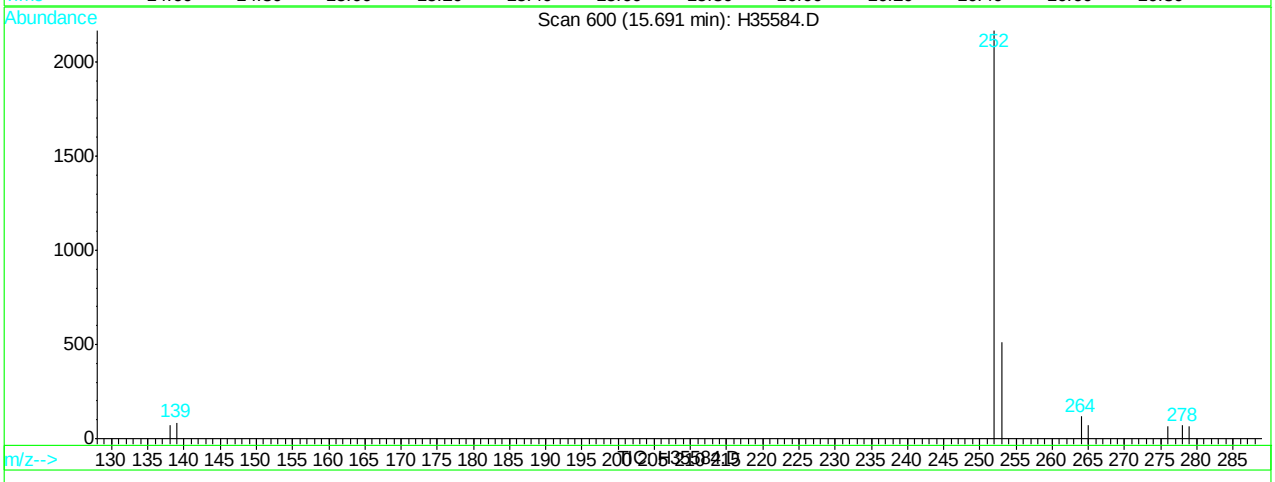
H35584.D H10239SP.M Tue Oct 27 15:23:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35584.D Vial: 6
Acq On : 23 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1920-5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 14:02 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 6.96ppb m

response 11016

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	23.59
125.00	0.00	0.00
0.00	0.00	0.00

H35584.D H10239SP.M Tue Oct 27 15:23:38 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 13:17:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	112006	4.00 ppb	-0.03
4) Naphthalene-d8	7.54	136	102360	4.00 ppb	-0.03
9) Acenaphthene-d10	9.57	164	82651	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	105276	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	16336	4.00 ppb	-0.02
26) Perylene-d12	16.38	264	4933	4.00 ppb	0.02

System Monitoring Compounds					
5) Nitrobenzene-d5	6.57	82	235956	34.03 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 680.60%#		
10) 2-Fluorobiphenyl	8.87	172	2949666	44.22 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 884.40%#		
16) 2,4,6-Tribromophenol	10.40	330	383317	118.70 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1187.00%#		
23) Terphenyl-d14	12.66	244	303763	74.65 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1493.00%#		

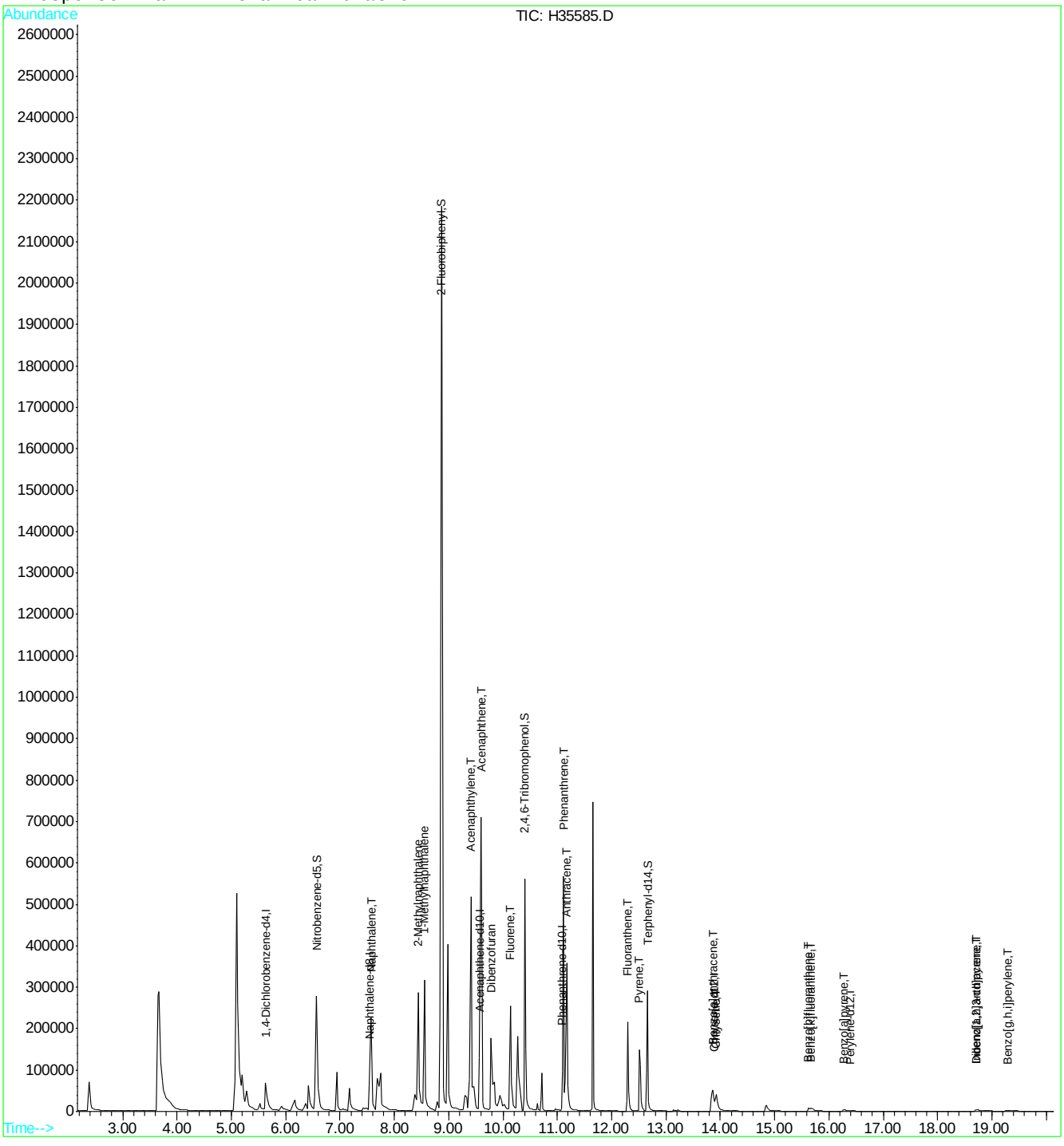
Target Compounds						Qvalue
6) Naphthalene	7.57	128	302375	5.67 ppb	#	90
7) 2-Methylnaphthalene	8.44	142	335058m	10.93 ppb		
8) 1-Methylnaphthalene	8.55	142	425662	7.90 ppb	#	52
11) Acenaphthylene	9.41	152	655028	11.99 ppb		89
12) Acenaphthene	9.60	153	462765	9.34 ppb		79
13) Dibenzofuran	9.78	168	275766	4.59 ppb		92
14) Fluorene	10.13	166	178801	5.56 ppb	#	25
18) Phenanthrene	11.11	178	505519m	10.20 ppb		
19) Anthracene	11.17	178	449171m	7.84 ppb		
20) Fluoranthene	12.29	202	280666	10.16 ppb		99
22) Pyrene	12.51	202	263134	9.76 ppb		95
24) Benzo[a]anthracene	13.87	228	54461	12.30 ppb		99
25) Chrysene	13.92	228	67822	9.33 ppb		98
27) Benzo[b]fluoranthene	15.62	252	13485m	10.27 ppb		
28) Benzo[k]fluoranthene	15.67	252	32938m	15.29 ppb		
29) Benzo[a]pyrene	16.28	252	19471	11.90 ppb		99
30) Indeno[1,2,3-cd]pyrene	18.72	276	12883	12.19 ppb		100
31) Dibenz[a,h]anthracene	18.72	278	9048	10.63 ppb		100
32) Benzo[g,h,i]perylene	19.29	276	10366	10.25 ppb		97

(#) = qualifier out of range (m) = manual integration
H35585.D H10239SP.M Tue Oct 27 15:23:46 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: H10239SP.RES

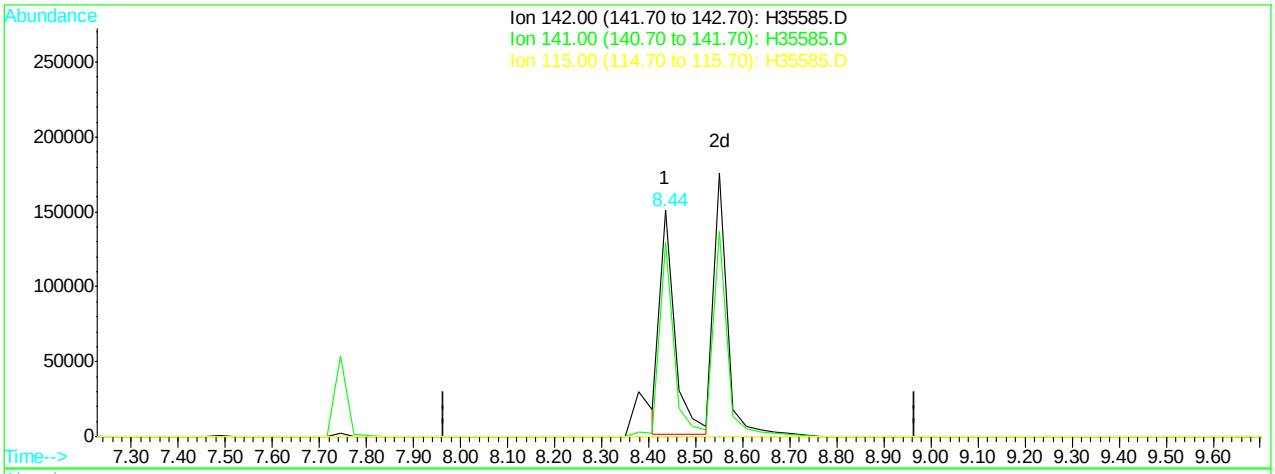
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

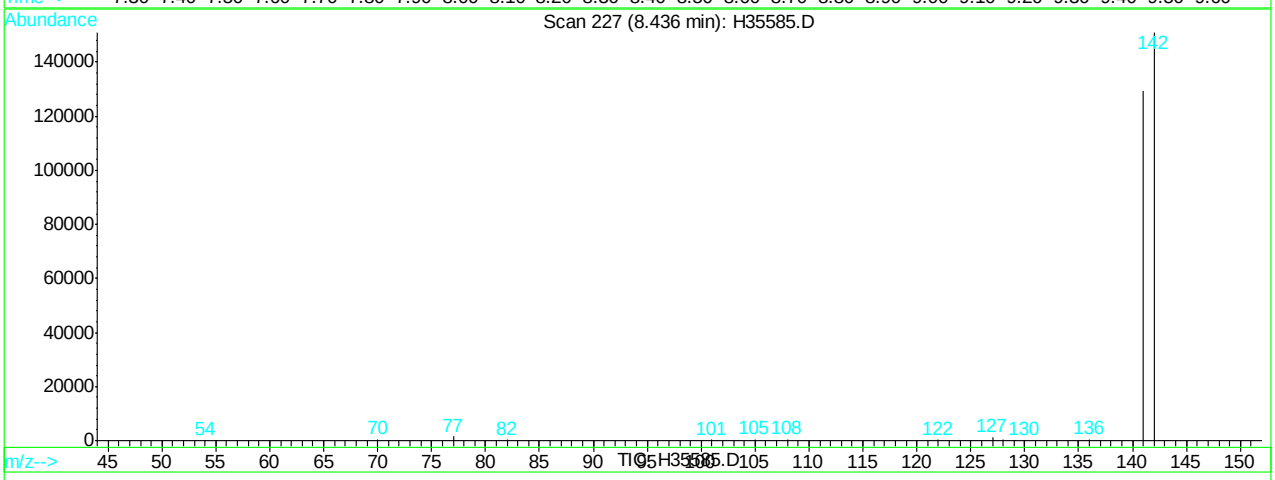


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.44min 10.93ppb m

response 335058

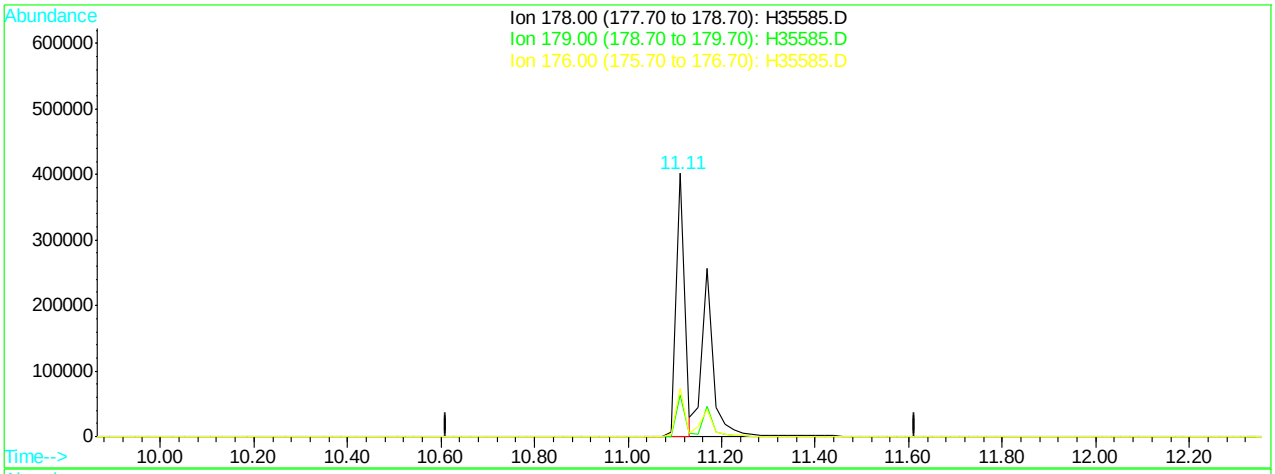
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	84.40#
115.00	0.00	0.00
0.00	0.00	0.00

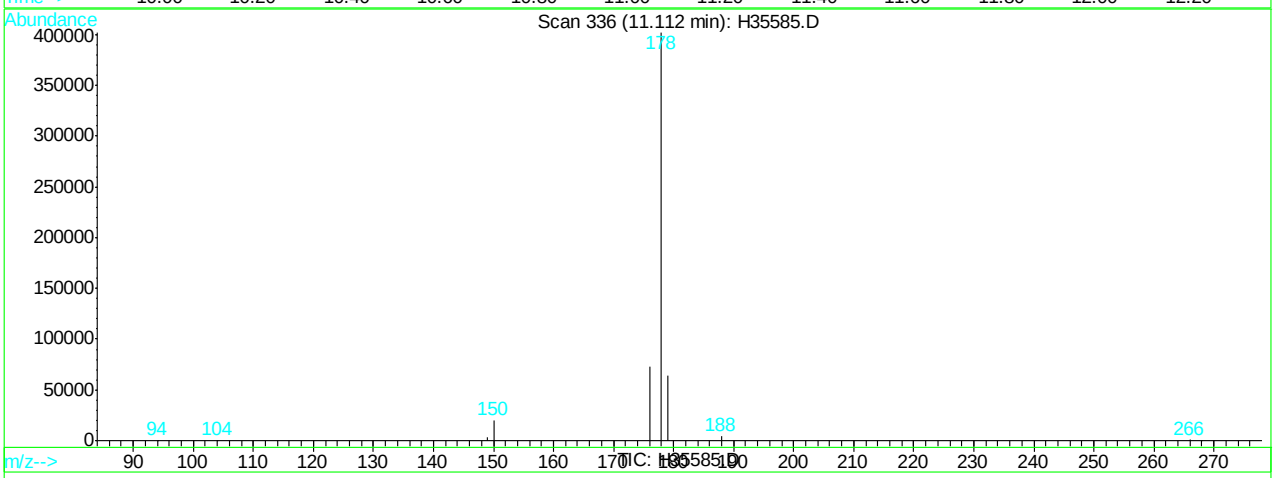
H35585.D H10239SP.M Tue Oct 27 15:24:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 10.20ppb m

response 505519

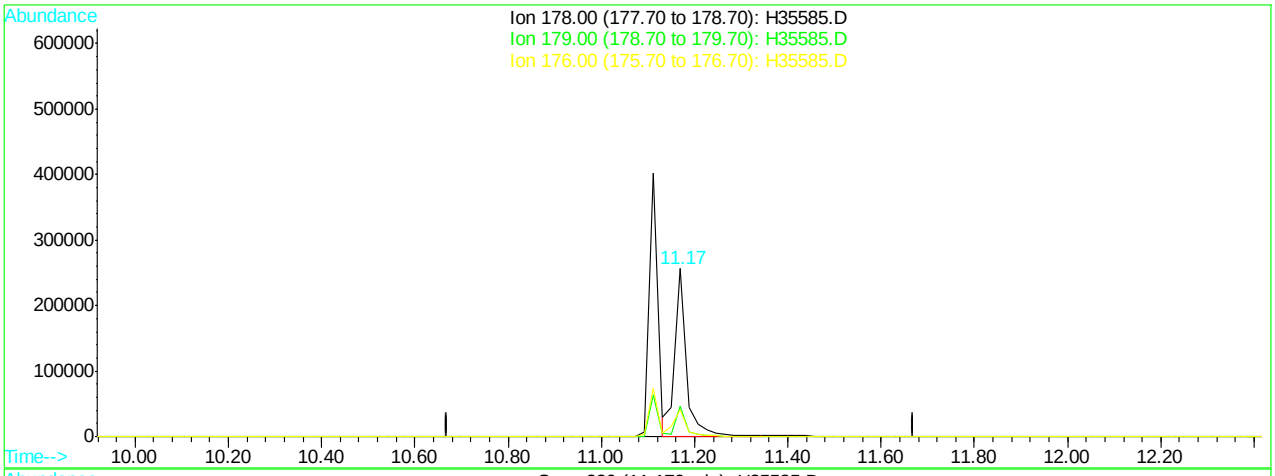
Ion	Exp%	Act%
178.00	100	100
179.00	11.60	15.88#
176.00	24.90	18.19
0.00	0.00	0.00

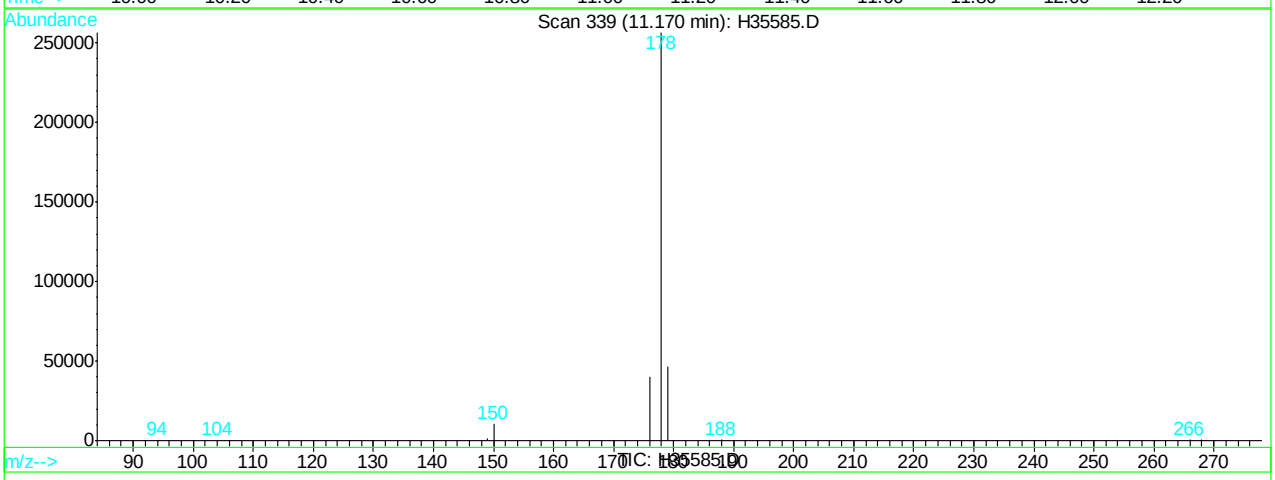
H35585.D H10239SP.M Tue Oct 27 15:24:13 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 7.84ppb m

response 449171

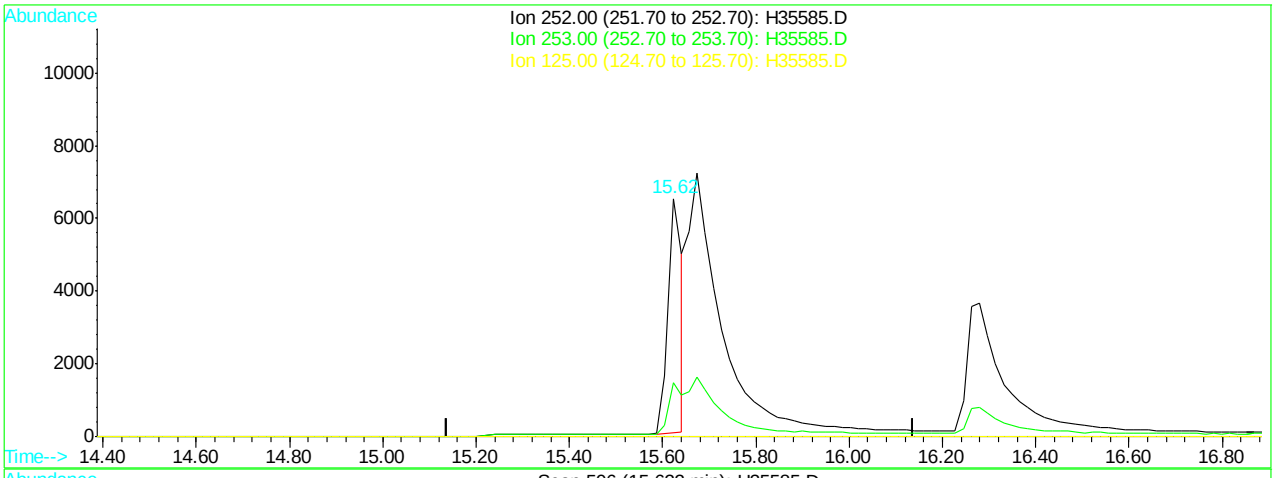
Ion	Exp%	Act%
178.00	100	100
179.00	12.00	18.26#
176.00	23.40	15.79#
0.00	0.00	0.00

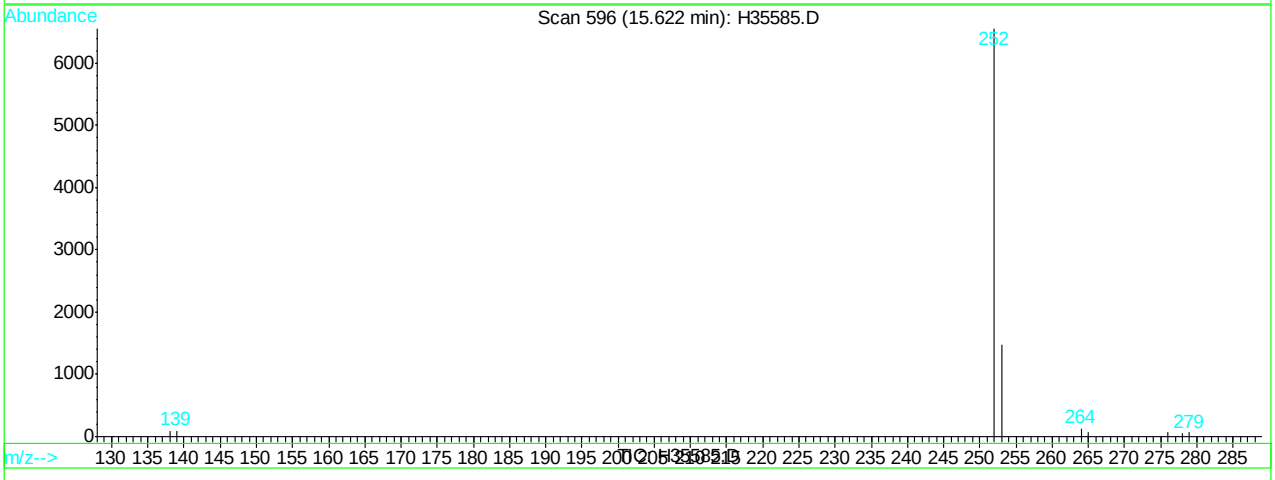
H35585.D H10239SP.M Tue Oct 27 15:24:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.62min 10.27ppb m

response 13485

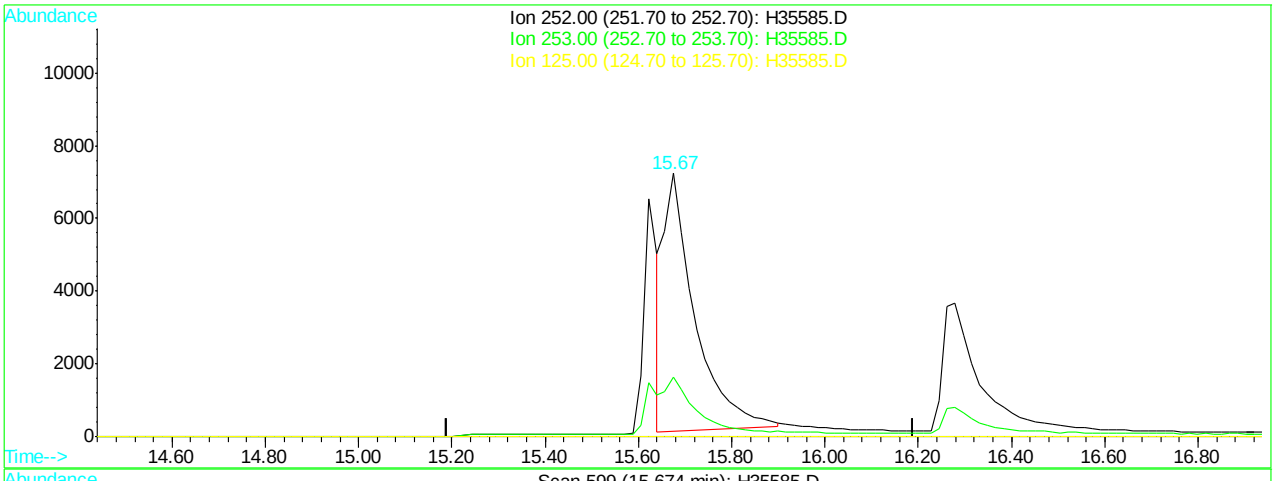
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	22.40
125.00	0.00	0.00
0.00	0.00	0.00

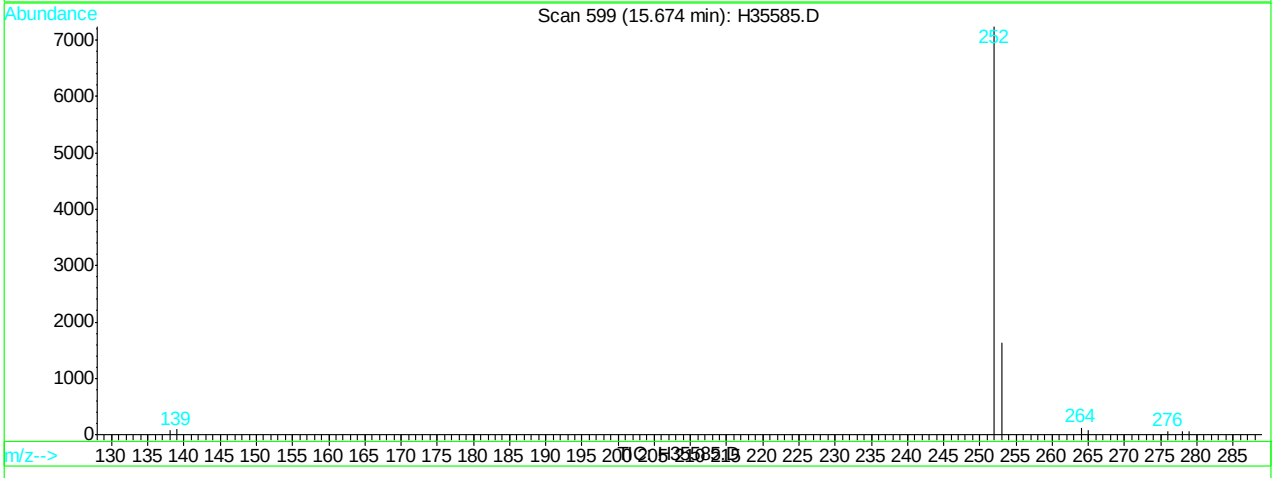
H35585.D H10239SP.M Tue Oct 27 15:24:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35585.D Vial: 7
Acq On : 23 Oct 2009 1:31 pm Operator: sheilac
Sample : ic1920-10 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 13:53 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 15.29ppb m

response 32938

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	22.63
125.00	0.00	0.00
0.00	0.00	0.00

H35585.D H10239SP.M Tue Oct 27 15:24:25 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: H10239SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Fri Oct 23 15:22:10 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	141635	4.00	ppb		0.00
4) Naphthalene-d8	7.54	136	121060	4.00	ppb		0.00
9) Acenaphthene-d10	9.57	164	100331	4.00	ppb		0.00
15) Phenanthrene-d10	11.09	188	108973	4.00	ppb		0.00
21) Chrysene-d12	13.90	240	16569	4.00	ppb		0.00
26) Perylene-d12	16.38	264	7697	4.00	ppb		0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb		
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#		
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb		
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#		
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb		
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#		
23) Terphenyl-d14	0.00	244	0	0.00	ppb		
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#		

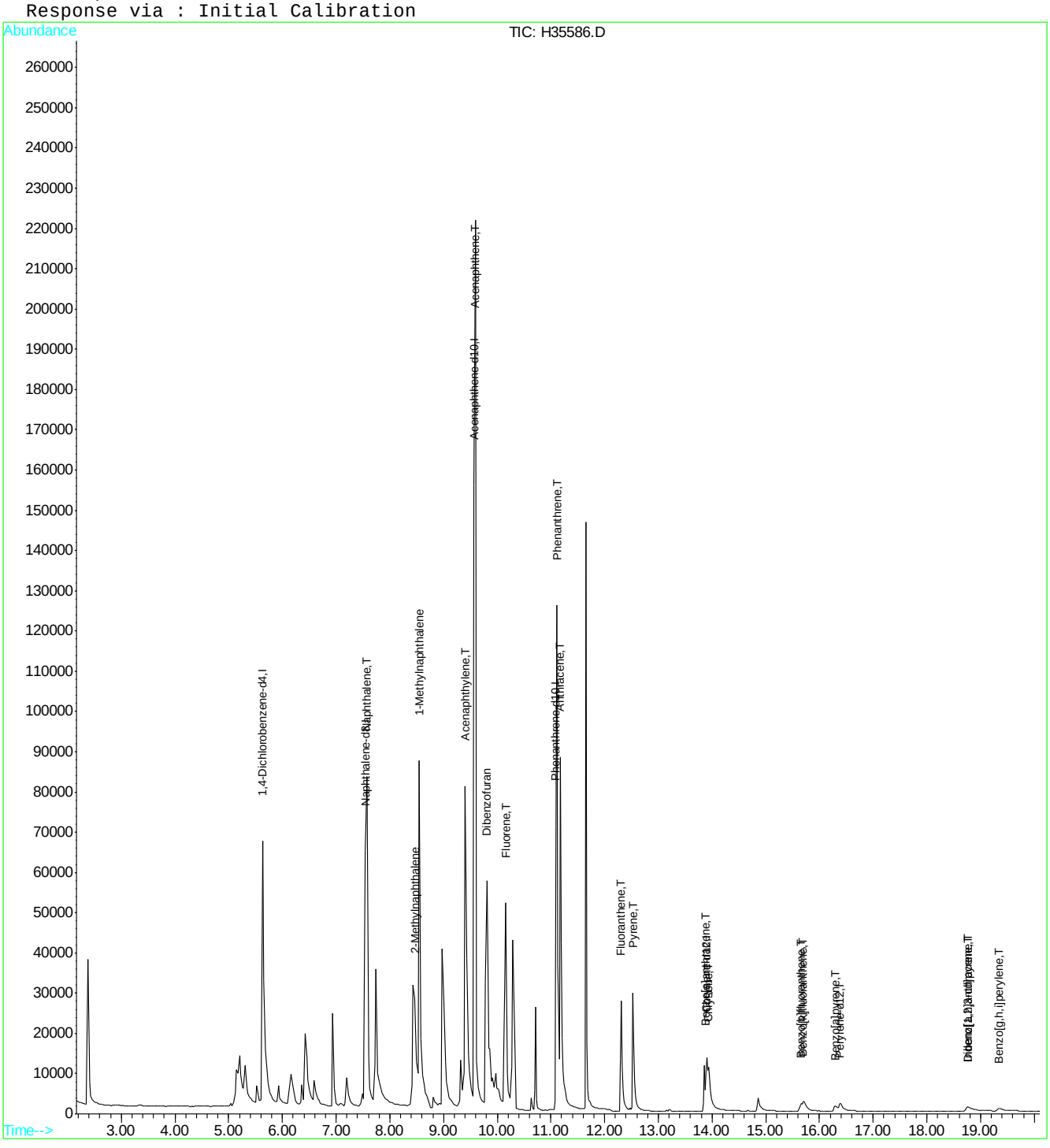
Target Compounds							Qvalue
6) Naphthalene	7.57	128	113075	2.79	ppb		98
7) 2-Methylnaphthalene	8.46	142	78333	2.35	ppb	#	29
8) 1-Methylnaphthalene	8.55	142	131184	2.91	ppb	#	97
11) Acenaphthylene	9.41	152	127700	1.97	ppb		92
12) Acenaphthene	9.59	153	146320	2.61	ppb		86
13) Dibenzofuran	9.81	168	101688	1.99	ppb		92
14) Fluorene	10.16	166	54865	2.07	ppb		98
18) Phenanthrene	11.11	178	125083	2.63	ppb		97
19) Anthracene	11.17	178	140615	2.55	ppb		97
20) Fluoranthene	12.31	202	57039	2.37	ppb	#	93
22) Pyrene	12.53	202	60041	2.21	ppb		97
24) Benzo[a]anthracene	13.88	228	11653m	3.07	ppb		
25) Chrysene	13.94	228	19162m	2.27	ppb		
27) Benzo[b]fluoranthene	15.66	252	4919m	2.34	ppb		
28) Benzo[k]fluoranthene	15.69	252	11174m	2.62	ppb		
29) Benzo[a]pyrene	16.30	252	6567	2.52	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.77	276	4359	2.37	ppb		87
31) Dibenz[a,h]anthracene	18.77	278	3070	2.45	ppb	#	86
32) Benzo[g,h,i]perylene	19.34	276	3710	2.18	ppb		99

(#) = qualifier out of range (m) = manual integration
H35586.D H10239SP.M Tue Oct 27 15:24:33 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: H10239SP.RES

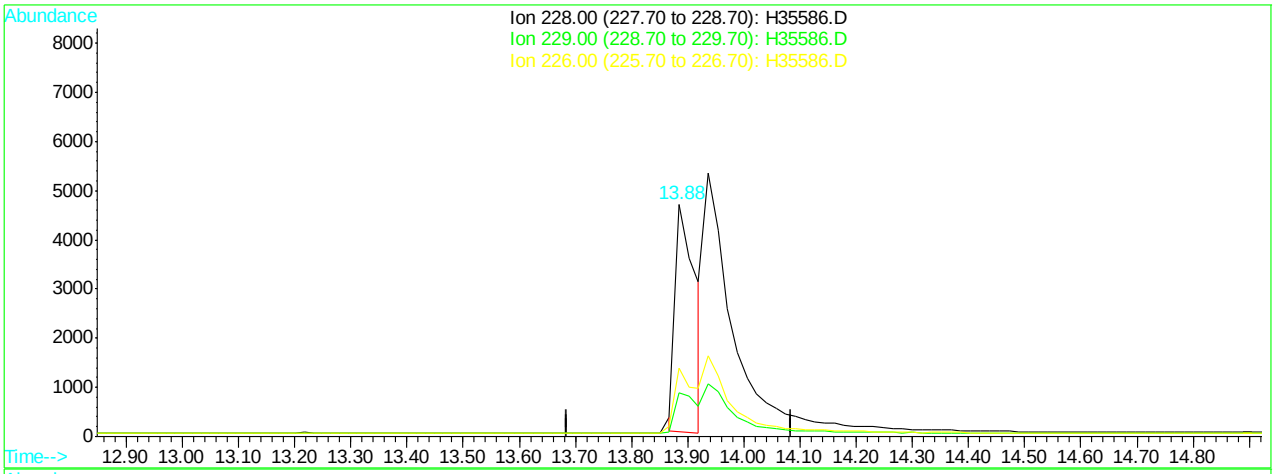
Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Initial Calibration

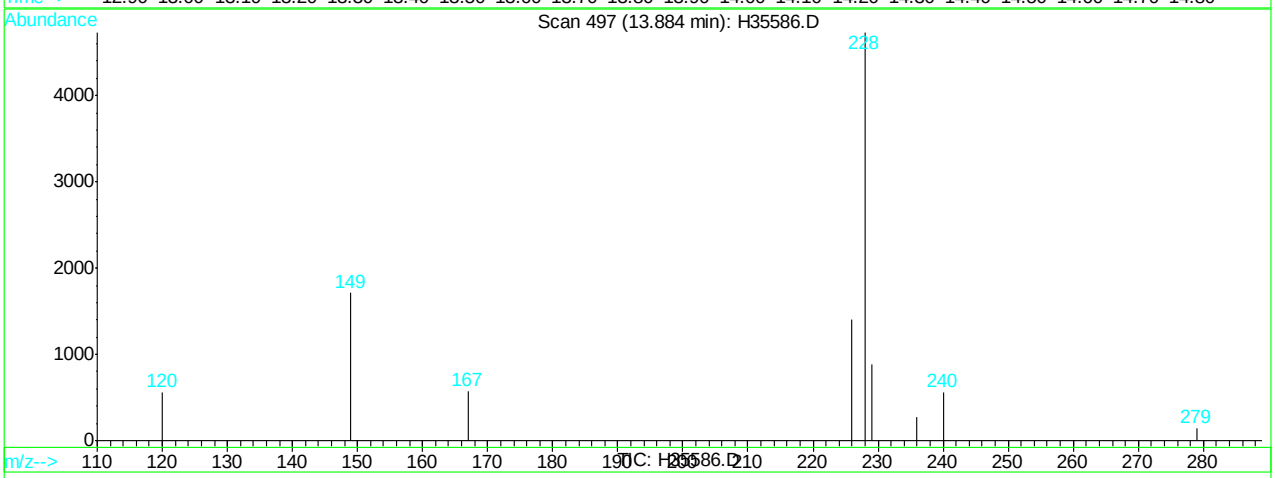


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 3.07ppb m

response 11653

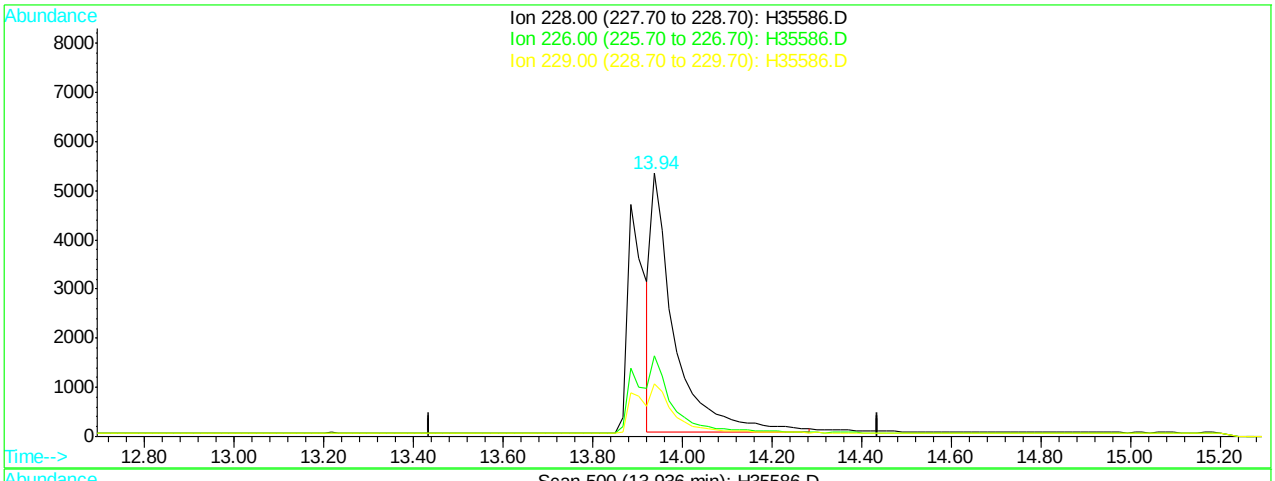
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	18.67
226.00	30.50	29.56
0.00	0.00	0.00

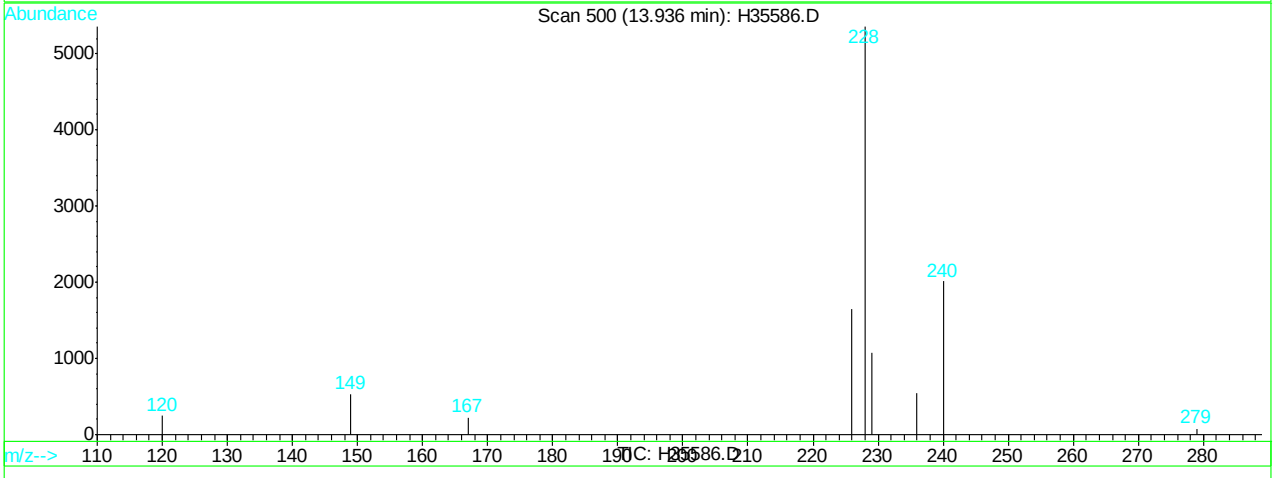
H35586.D H10239SP.M Tue Oct 27 15:24:50 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.27ppb m

response 19162

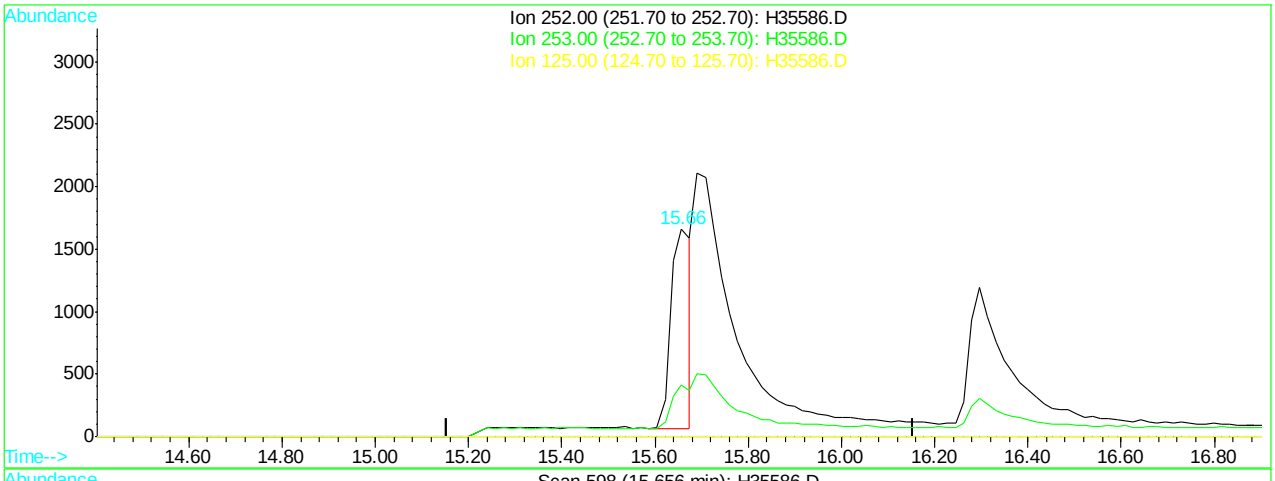
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	30.82
229.00	21.20	19.97
0.00	0.00	0.00

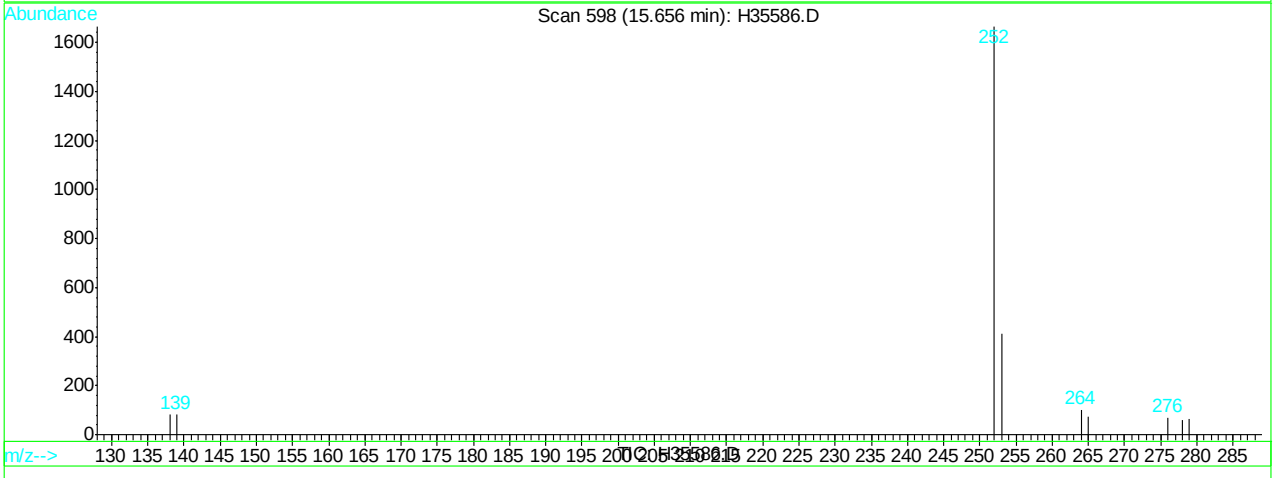
H35586.D H10239SP.M Tue Oct 27 15:24:53 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 2.34ppb m

response 4919

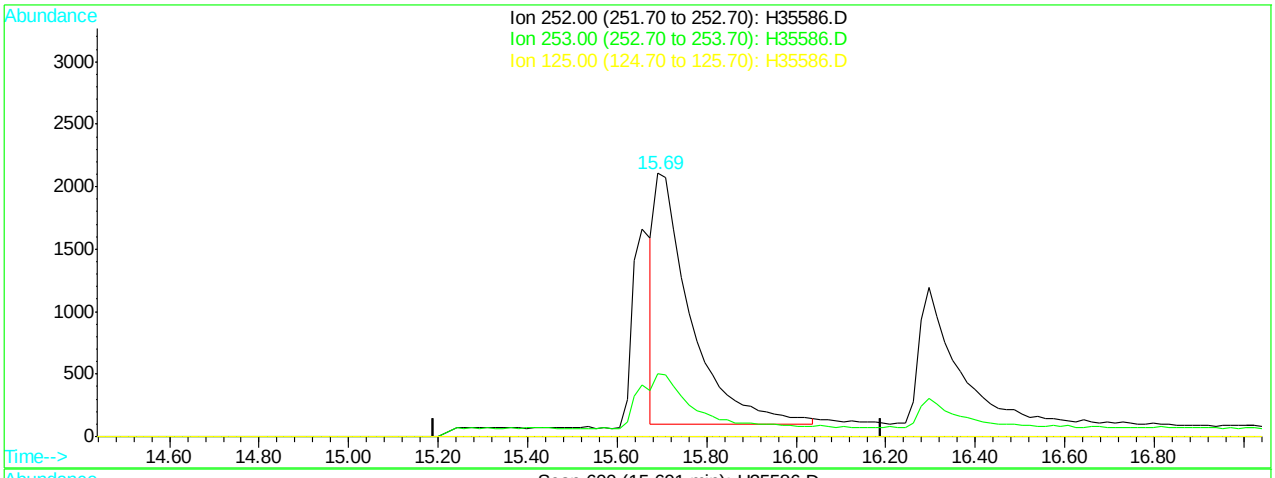
Ion	Exp%	Act%
252.00	100	100
253.00	27.80	24.74
125.00	0.00	0.00
0.00	0.00	0.00

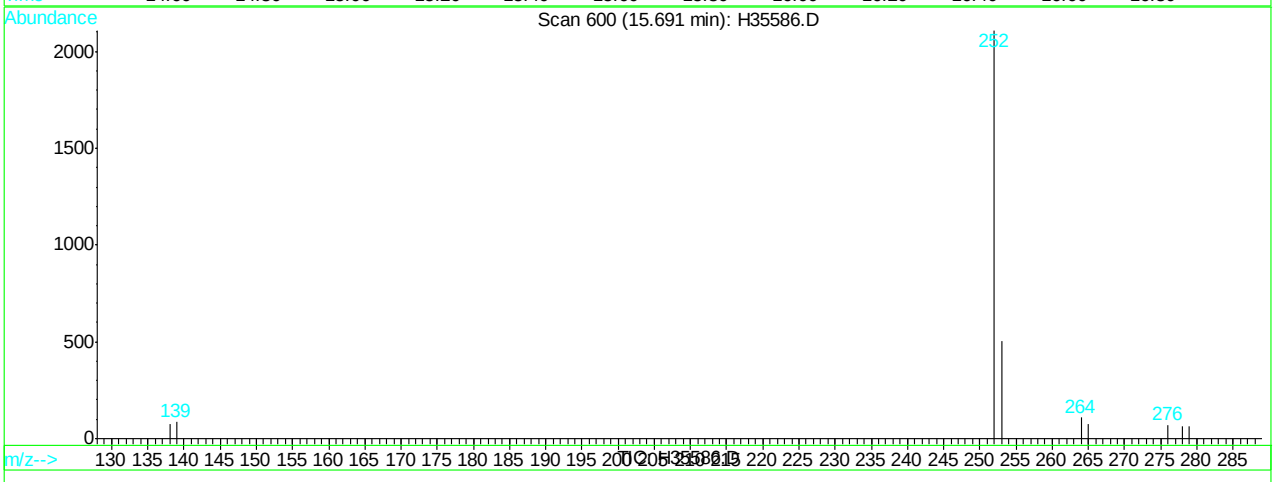
H35586.D H10239SP.M Tue Oct 27 15:24:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1920\H35586.D Vial: 8
Acq On : 23 Oct 2009 2:13 pm Operator: sheilac
Sample : icv1920-2.5 Inst : TXMSH
Misc : OP12779,EH1920,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 15:24 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10239SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:17:29 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.62ppb m

response 11174

Ion	Exp%	Act%
252.00	100	100
253.00	26.10	23.91
125.00	0.00	0.00
0.00	0.00	0.00

H35586.D H10239SP.M Tue Oct 27 15:25:00 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 16:05:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	83144	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	75243	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	57620	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	61980	4.00	ppb	0.00
21) Chrysene-d12	13.94	240	8019	4.00	ppb	-0.04
26) Perylene-d12	16.42	264	3605	4.00	ppb	-0.03

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	43907	17.68	ppb	-0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 353.60%#			
10) 2-Fluorobiphenyl	8.87	172	384011	12.06	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 241.20%#			
16) 2,4,6-Tribromophenol	10.40	330	62806	35.14	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 351.40%#			
23) Terphenyl-d14	12.68	244	28686	14.44	ppb	-0.05
Spiked Amount 5.000	Range 10 - 160		Recovery = 288.80%#			

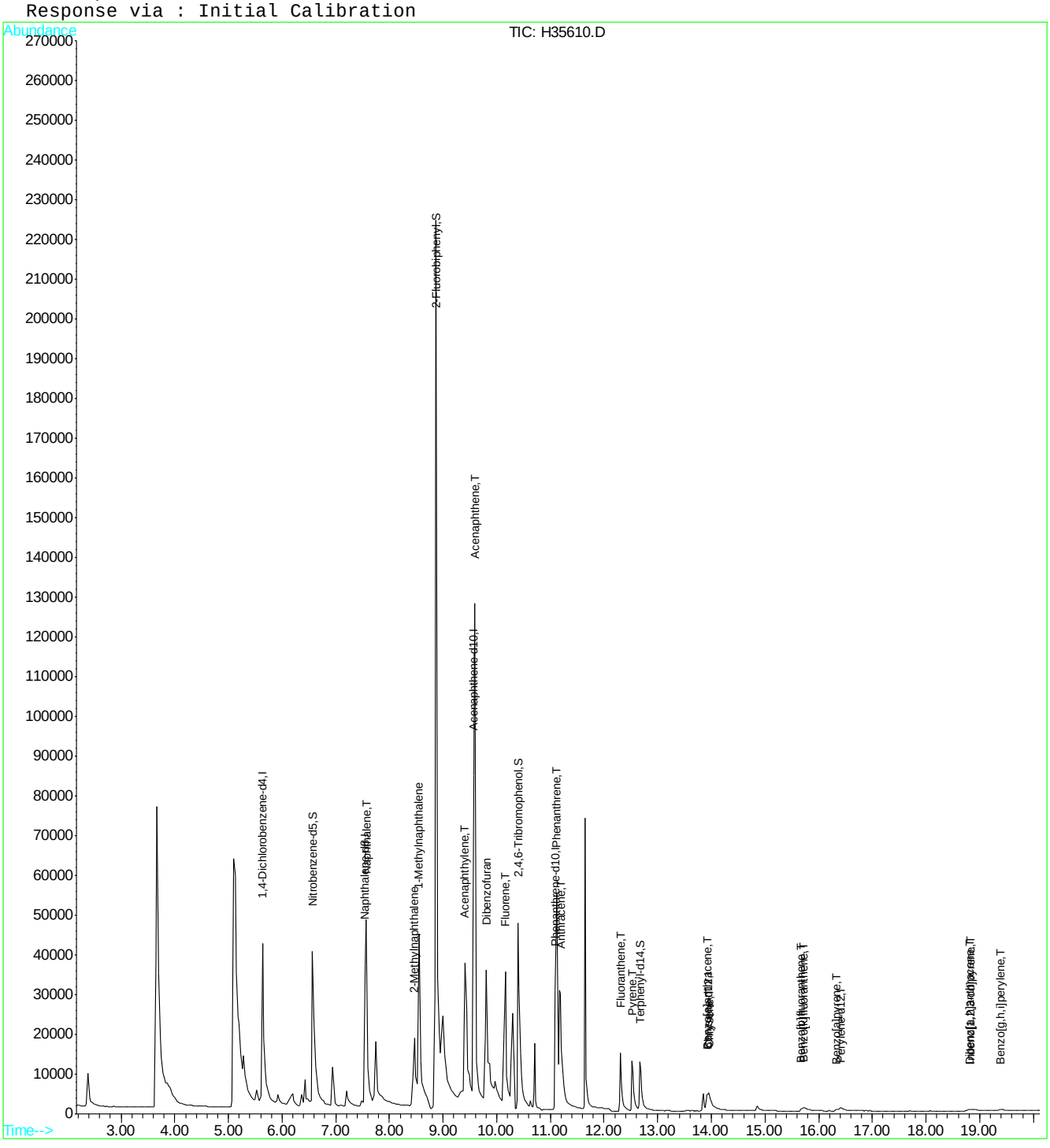
Target Compounds							Qvalue
6) Naphthalene	7.57	128	68576	2.72	ppb		99
7) 2-Methylnaphthalene	8.46	142	35689m	2.29	ppb		
8) 1-Methylnaphthalene	8.55	142	70618m	2.52	ppb		
11) Acenaphthylene	9.41	152	67600	1.90	ppb		88
12) Acenaphthene	9.60	153	85055	2.65	ppb		93
13) Dibenzofuran	9.81	168	65004	2.18	ppb		92
14) Fluorene	10.16	166	43358	2.84	ppb		97
18) Phenanthrene	11.11	178	61908	2.29	ppb		94
19) Anthracene	11.19	178	80938	2.58	ppb		98
20) Fluoranthene	12.31	202	31097	2.47	ppb	#	92
22) Pyrene	12.52	202	30371	2.31	ppb		98
24) Benzo[a]anthracene	13.92	228	4163m	2.26	ppb		
25) Chrysene	13.95	228	10921m	3.04	ppb		
27) Benzo[b]fluoranthene	15.67	252	1416m	1.44	ppb		
28) Benzo[k]fluoranthene	15.73	252	5547m	3.35	ppb		
29) Benzo[a]pyrene	16.33	252	2855	2.61	ppb	#	31
30) Indeno[1,2,3-cd]pyrene	18.82	276	2288	3.60	ppb	#	20
31) Dibenz[a,h]anthracene	18.81	278	1652	3.61	ppb	#	15
32) Benzo[g,h,i]perylene	19.39	276	1853	2.92	ppb	#	16

(#) = qualifier out of range (m) = manual integration
H35610.D H10269SP.M Tue Oct 27 14:43:33 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: H10269SP.RES

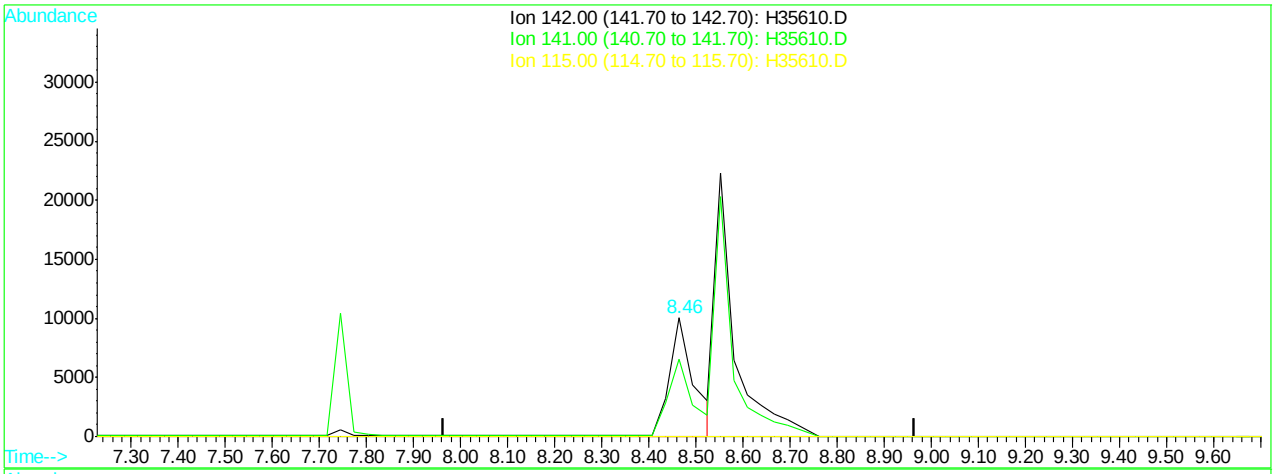
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

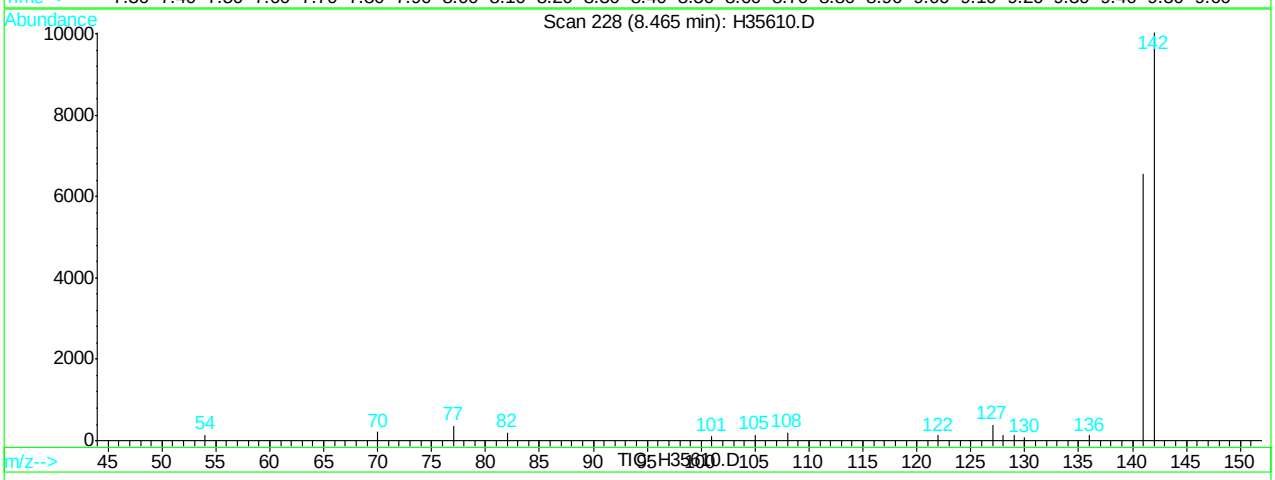


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 2.29ppb m

response 35689

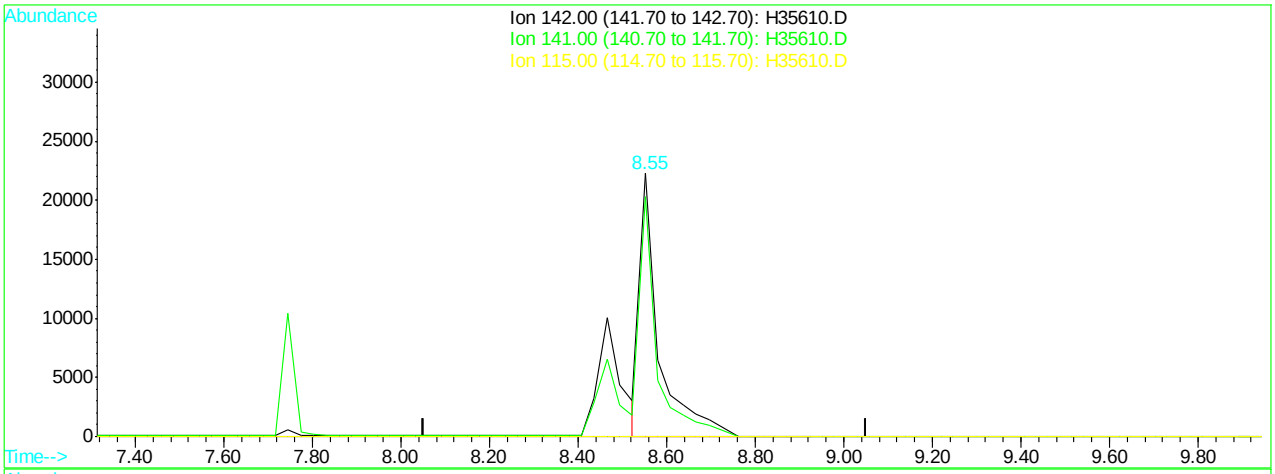
Ion	Exp%	Act%
142.00	100	100
141.00	65.40	240.98#
115.00	0.00	0.00
0.00	0.00	0.00

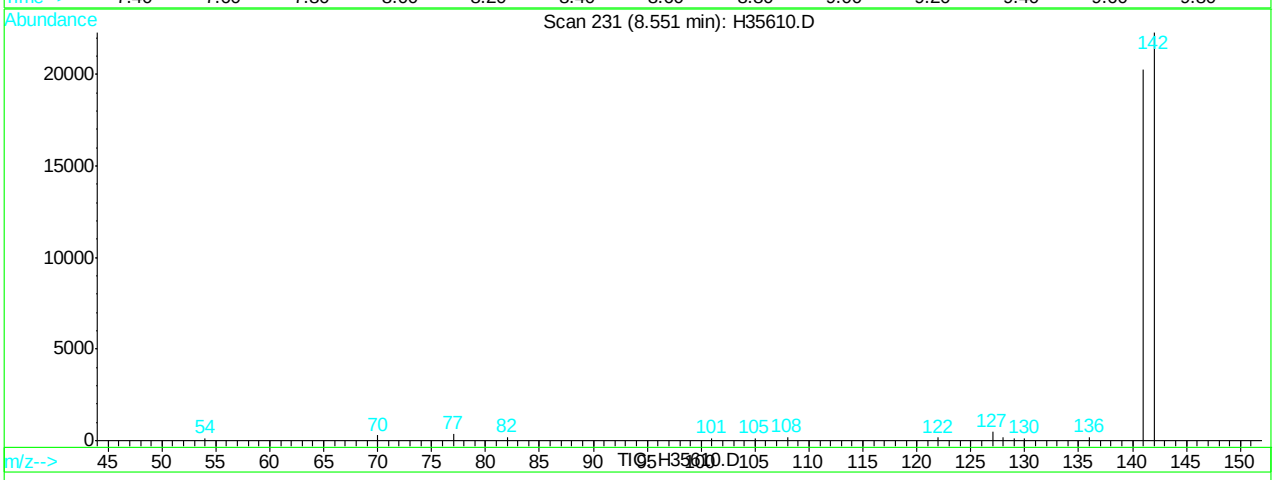
H35610.D H10269SP.M Tue Oct 27 14:43:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 2.52ppb m

response 70618

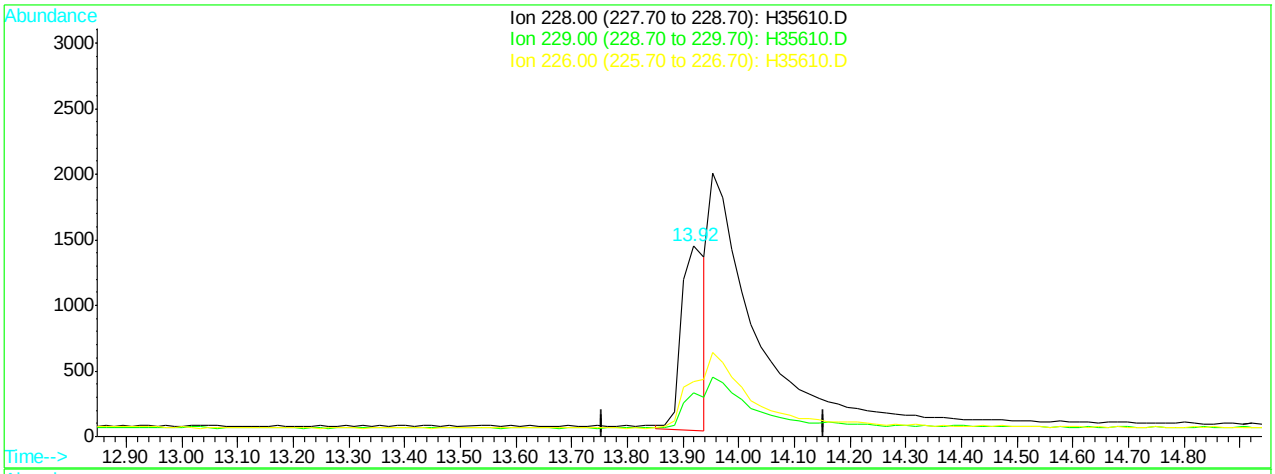
Ion	Exp%	Act%
142.00	100	100
141.00	91.00	121.79#
115.00	0.00	0.00
0.00	0.00	0.00

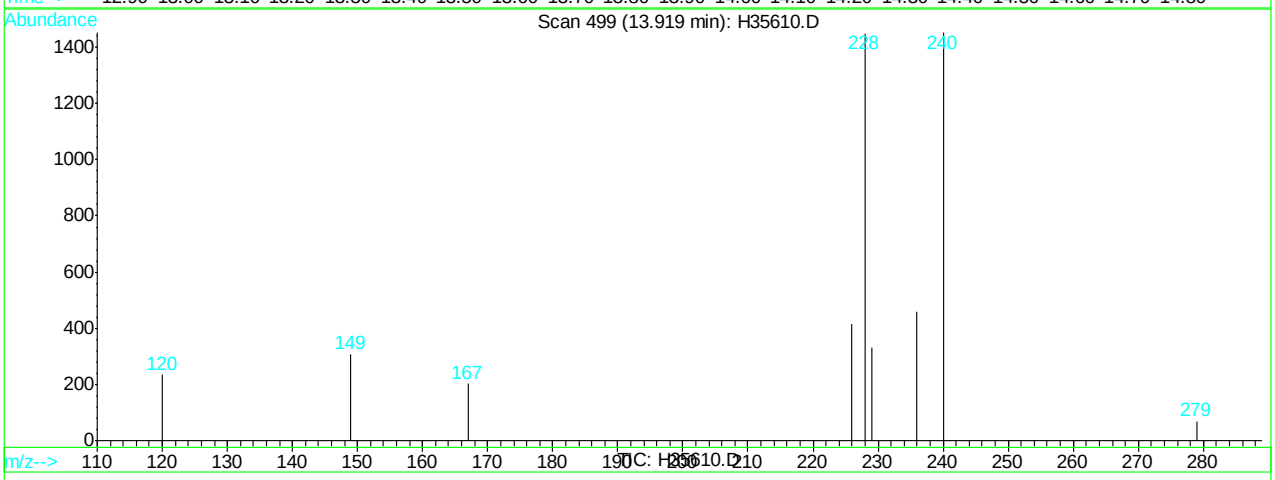
H35610.D H10269SP.M Tue Oct 27 14:43:58 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.92min 2.26ppb m

response 4163

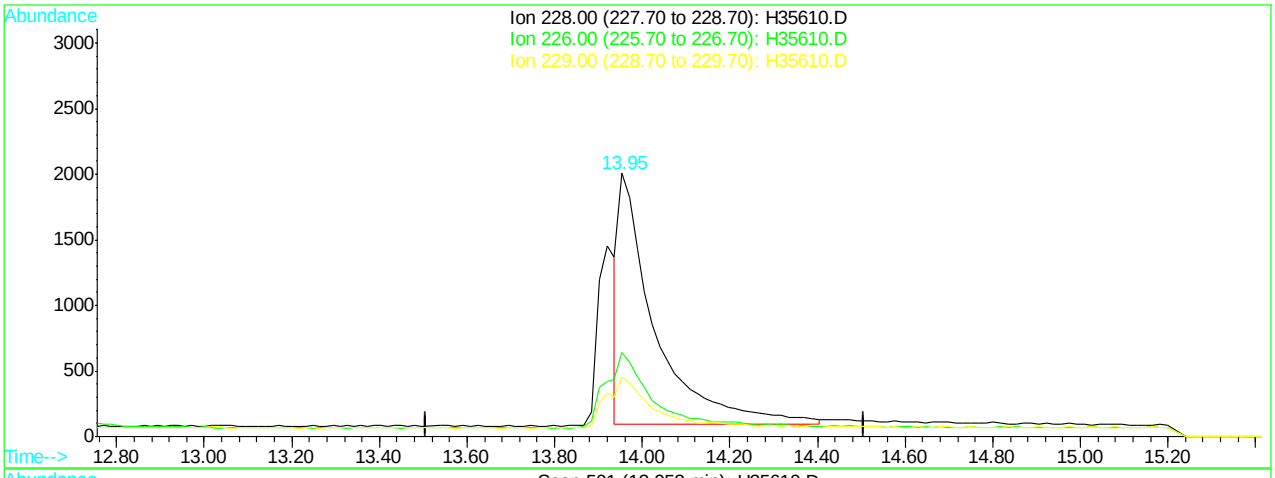
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	22.76
226.00	30.50	28.62
0.00	0.00	0.00

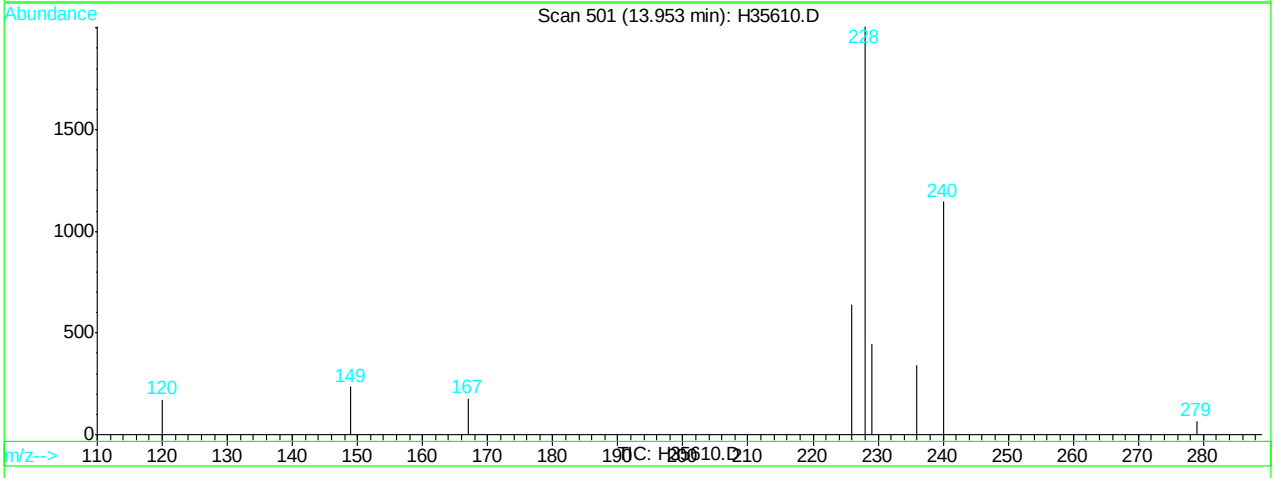
H35610.D H10269SP.M Tue Oct 27 14:44:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 3.04ppb m

response 10921

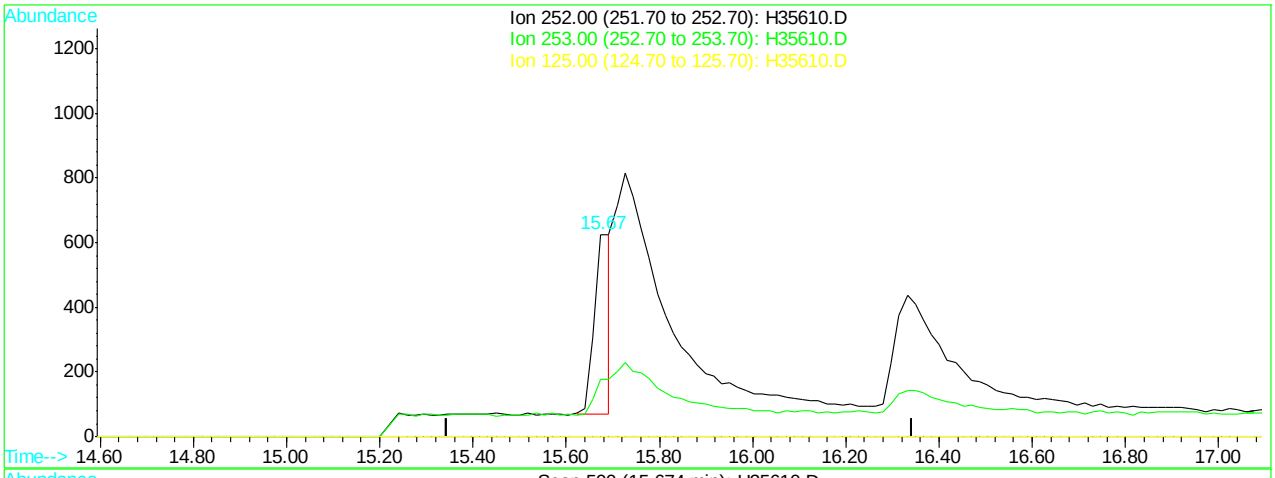
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	31.79
229.00	21.20	22.37
0.00	0.00	0.00

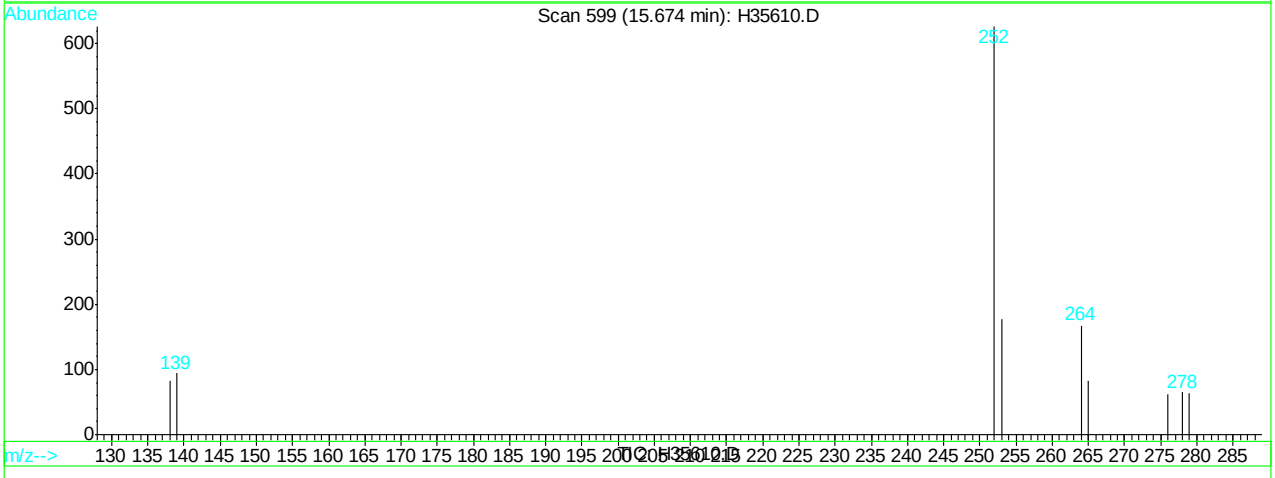
H35610.D H10269SP.M Tue Oct 27 14:44:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.67min 1.44ppb m

response 1416

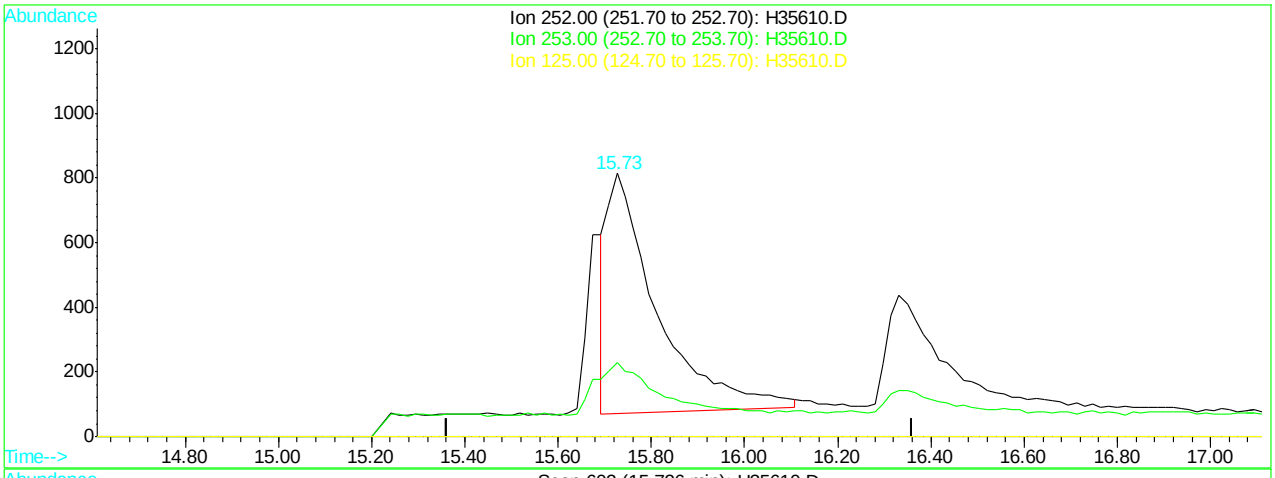
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	28.43#
125.00	0.00	0.00
0.00	0.00	0.00

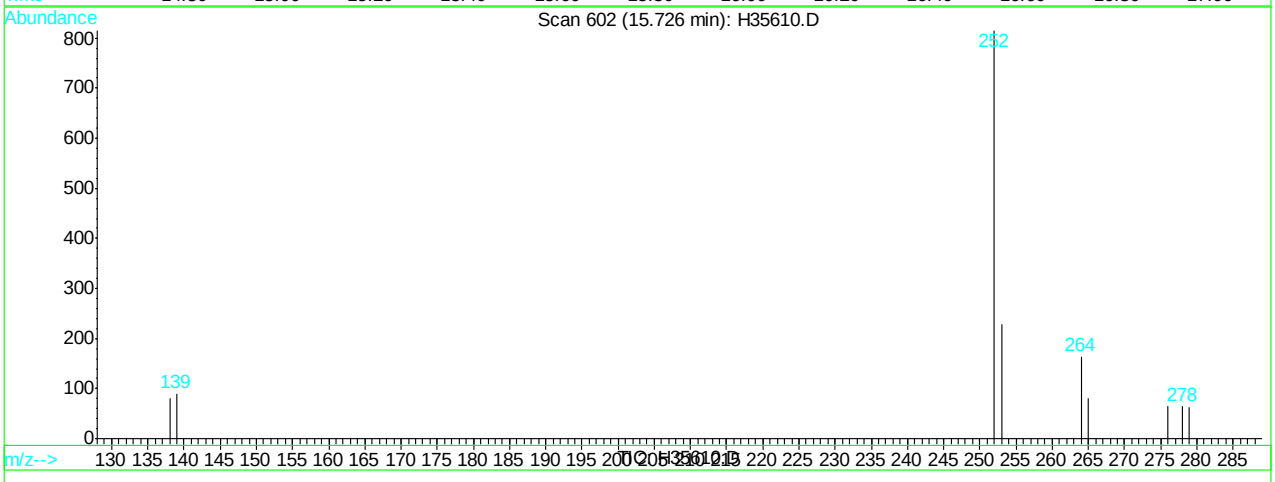
H35610.D H10269SP.M Tue Oct 27 14:44:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35610.D Vial: 2
Acq On : 26 Oct 2009 12:05 pm Operator: sheilac
Sample : icc1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 3.35ppb m

response 5547

Ion	Exp%	Act%
252.00	100	100
253.00	74.20	28.10#
125.00	0.00	0.00
0.00	0.00	0.00

H35610.D H10269SP.M Tue Oct 27 14:44:12 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 16:05:49 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	88397	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	67430	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	48197	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	50196	4.00	ppb	0.02
21) Chrysene-d12	13.95	240	6932	4.00	ppb	-0.02
26) Perylene-d12	16.44	264	3840	4.00	ppb	-0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.60	82	13294	5.97	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 119.40%			
10) 2-Fluorobiphenyl	8.87	172	125528	4.71	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 94.20%			
16) 2,4,6-Tribromophenol	10.42	330	21810	15.07	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 150.70%#			
23) Terphenyl-d14	12.69	244	8000	4.66	ppb	-0.03
Spiked Amount 5.000	Range 10 - 160		Recovery = 93.20%			

Target Compounds

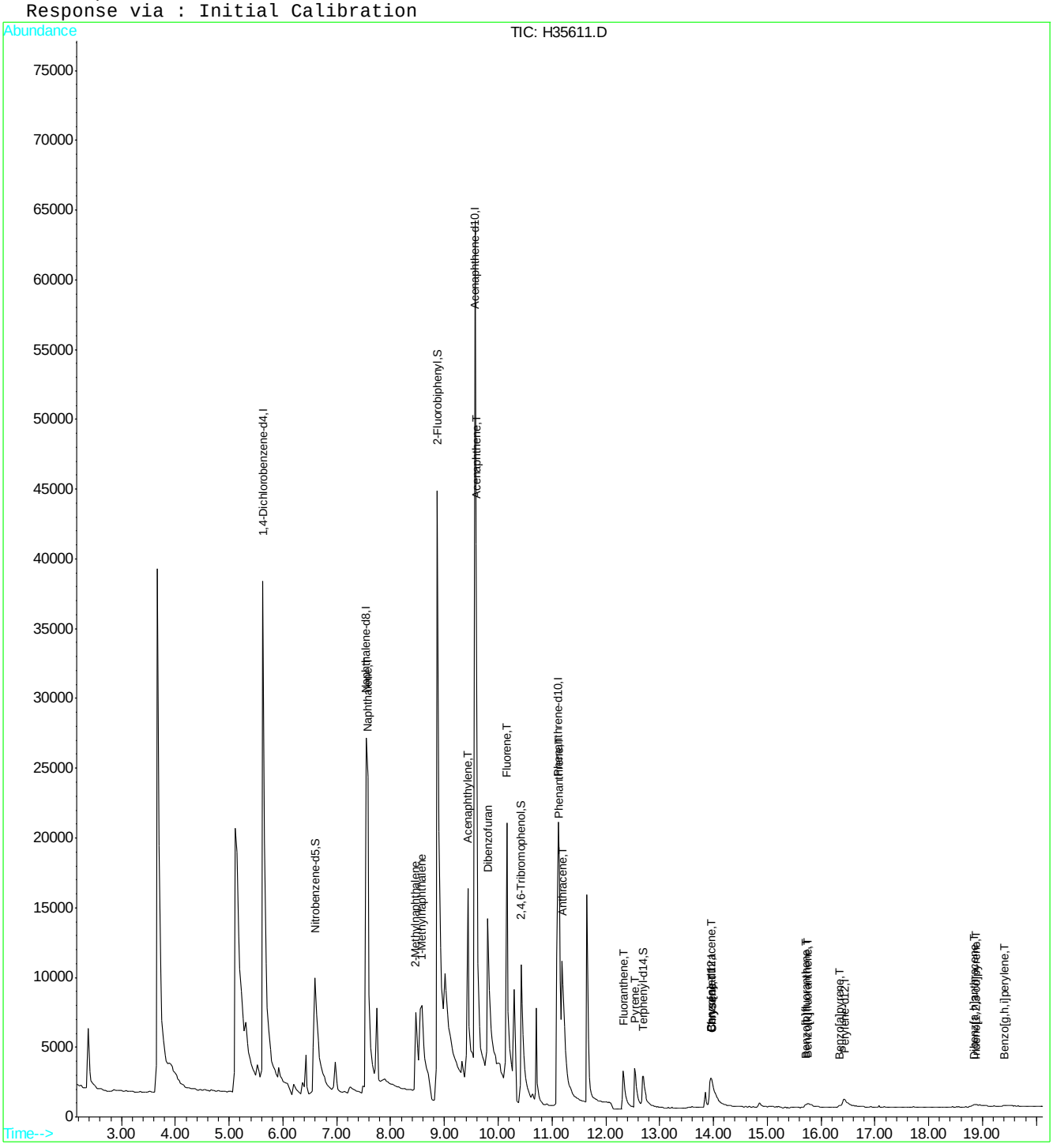
							Qvalue
6) Naphthalene	7.57	128	26222	1.16	ppb		96
7) 2-Methylnaphthalene	8.47	142	10689m	0.76	ppb		
8) 1-Methylnaphthalene	8.58	142	21615m	0.86	ppb		
11) Acenaphthylene	9.43	152	22828	0.77	ppb	#	87
12) Acenaphthene	9.60	153	26352	0.98	ppb		81
13) Dibenzofuran	9.81	168	31953m	1.28	ppb		
14) Fluorene	10.16	166	22732	1.78	ppb		86
18) Phenanthrene	11.13	178	20342	0.93	ppb		96
19) Anthracene	11.19	178	27815	1.09	ppb		100
20) Fluoranthene	12.32	202	8777	0.86	ppb	#	93
22) Pyrene	12.54	202	8651	0.76	ppb	#	93
24) Benzo[a]anthracene	13.95	228	1062m	0.67	ppb		
25) Chrysene	13.97	228	3430m	1.10	ppb		
27) Benzo[b]fluoranthene	15.73	252	591m	0.57	ppb		
28) Benzo[k]fluoranthene	15.74	252	1851m	1.05	ppb		
29) Benzo[a]pyrene	16.35	252	1223	1.05	ppb	#	33
30) Indeno[1,2,3-cd]pyrene	18.88	276	894	1.32	ppb	#	28
31) Dibenz[a,h]anthracene	18.84	278	640m	1.31	ppb		
32) Benzo[g,h,i]perylene	19.41	276	873	1.29	ppb	#	17

(#) = qualifier out of range (m) = manual integration
H35611.D H10269SP.M Tue Oct 27 14:44:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: H10269SP.RES

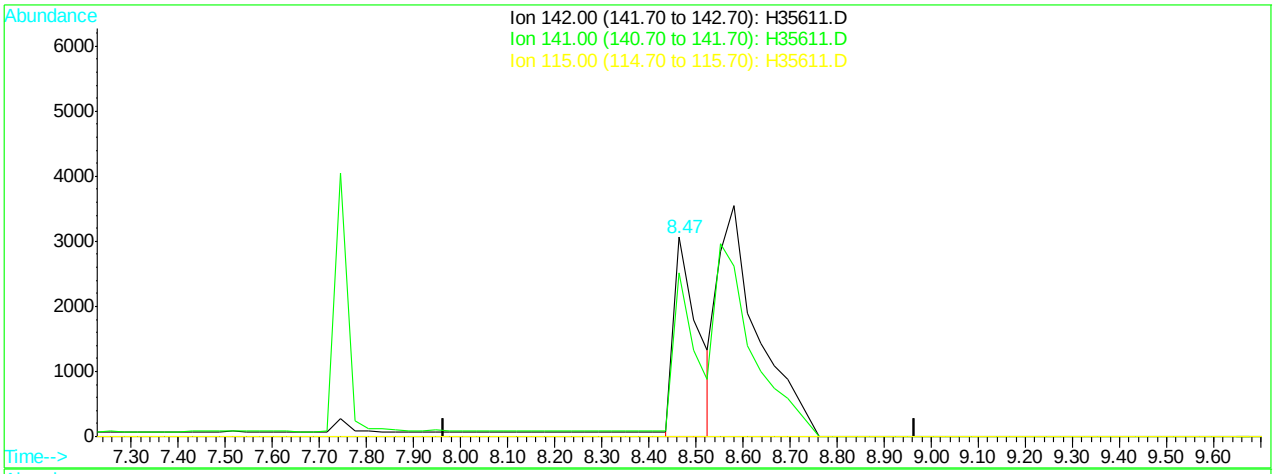
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

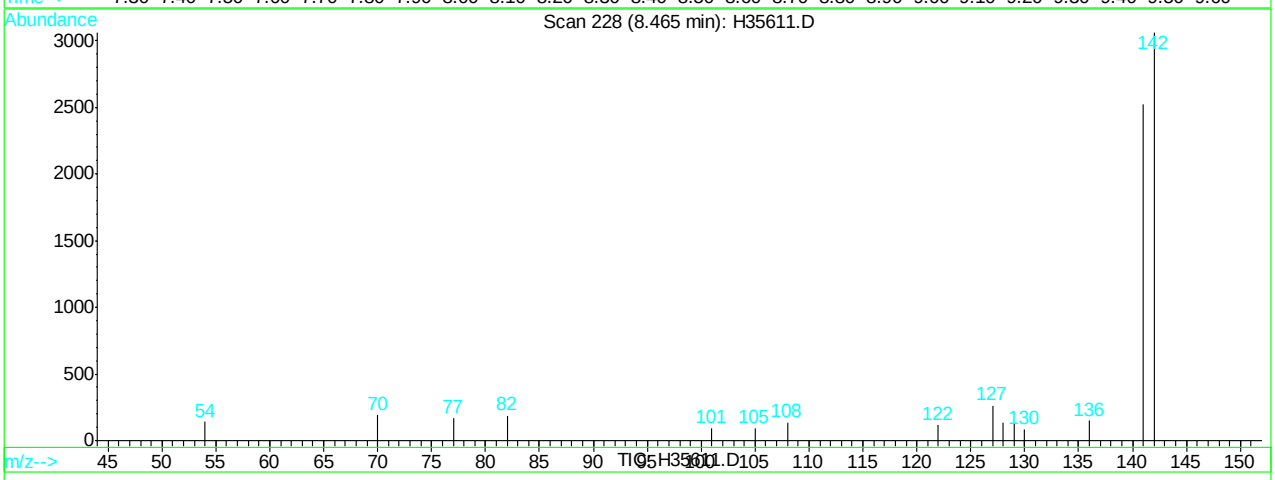


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 0.76ppb m

response 10689

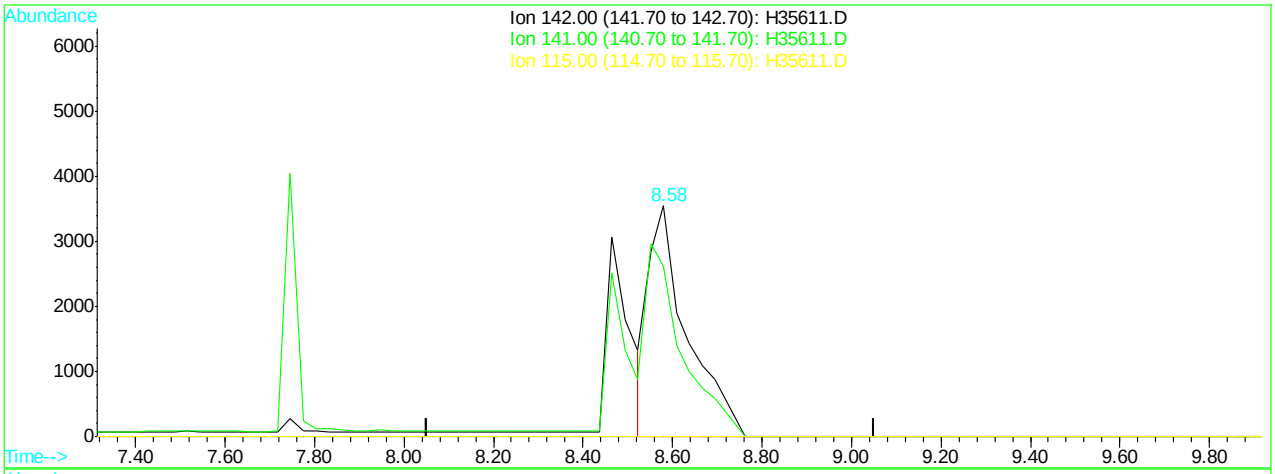
Ion	Exp%	Act%
142.00	100	100
141.00	65.40	252.22#
115.00	0.00	0.00
0.00	0.00	0.00

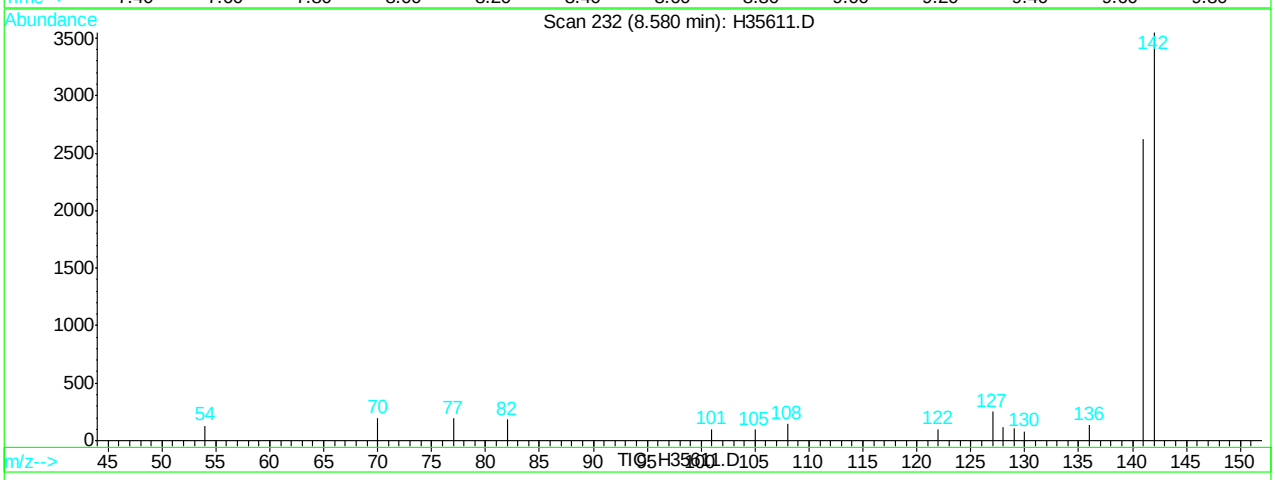
H35611.D H10269SP.M Tue Oct 27 14:44:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.86ppb m

response 21615

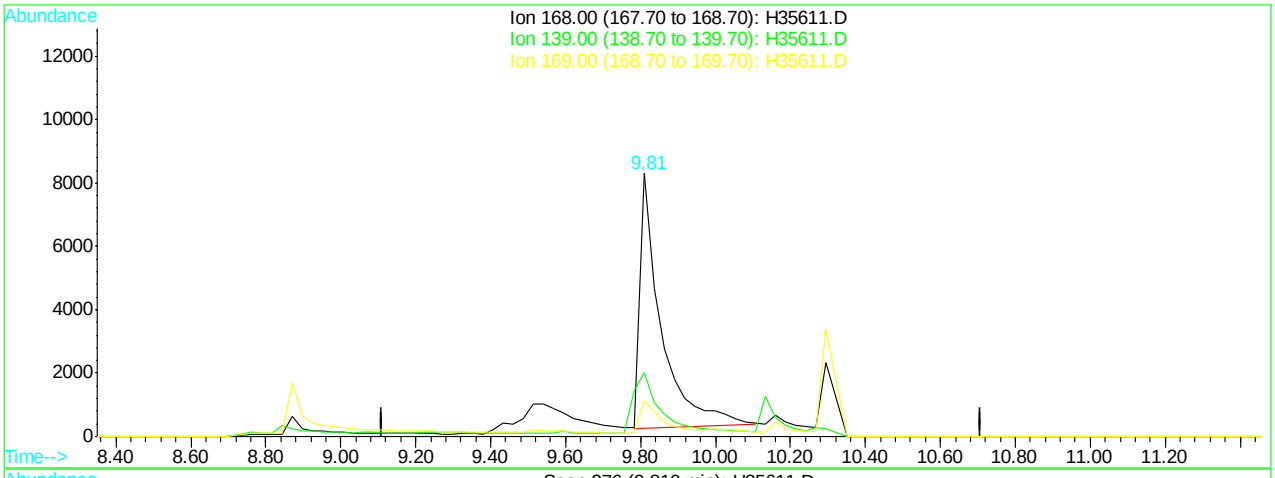
Ion	Exp%	Act%
142.00	100	100
141.00	91.00	124.73#
115.00	0.00	0.00
0.00	0.00	0.00

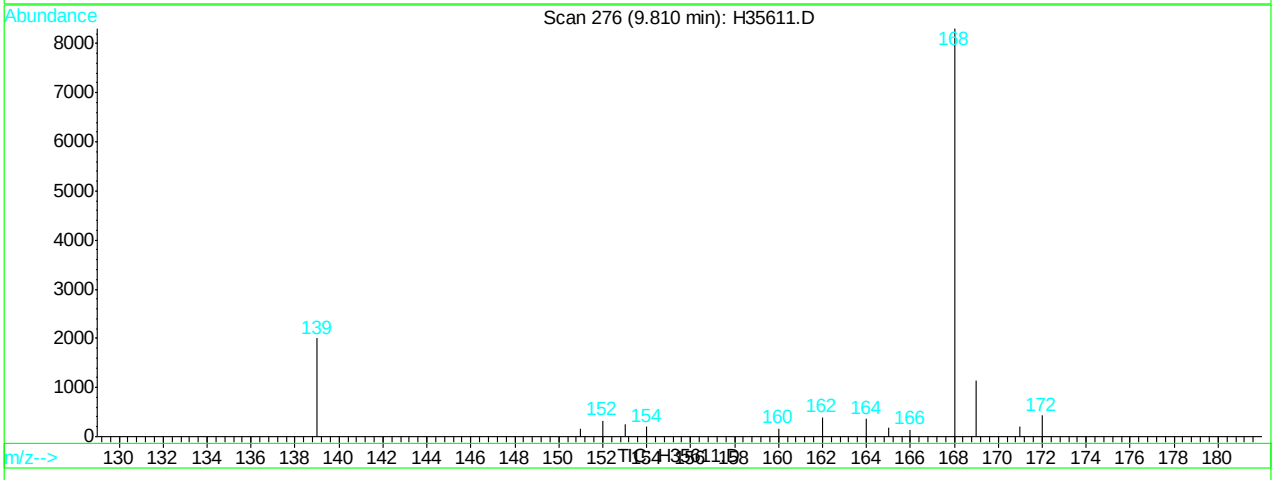
H35611.D H10269SP.M Tue Oct 27 14:44:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(13) Dibenzofuran

9.81min 1.28ppb m

response 31953

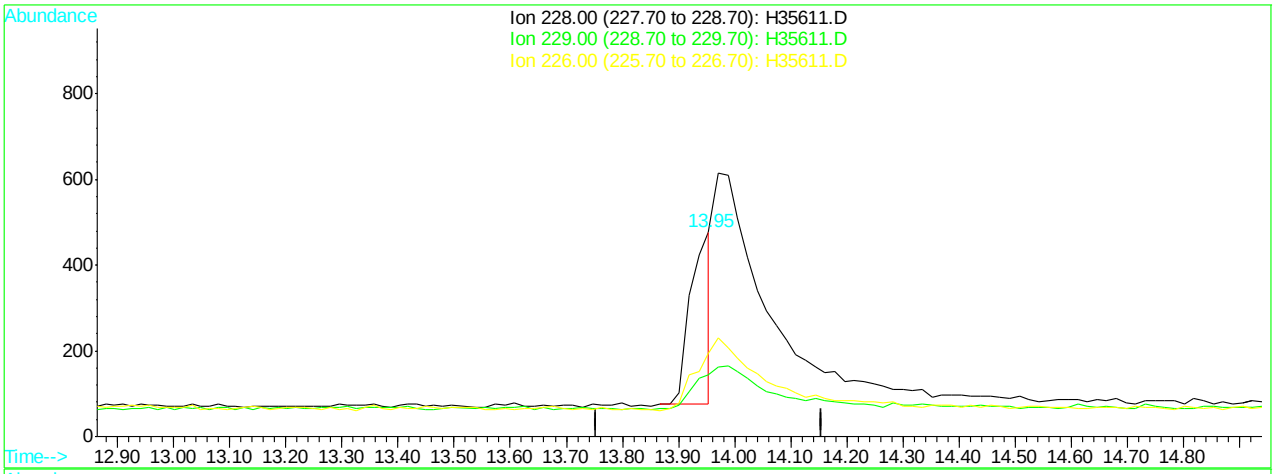
Ion	Exp%	Act%
168.00	100	100
139.00	48.10	35.44
169.00	14.00	12.70
0.00	0.00	0.00

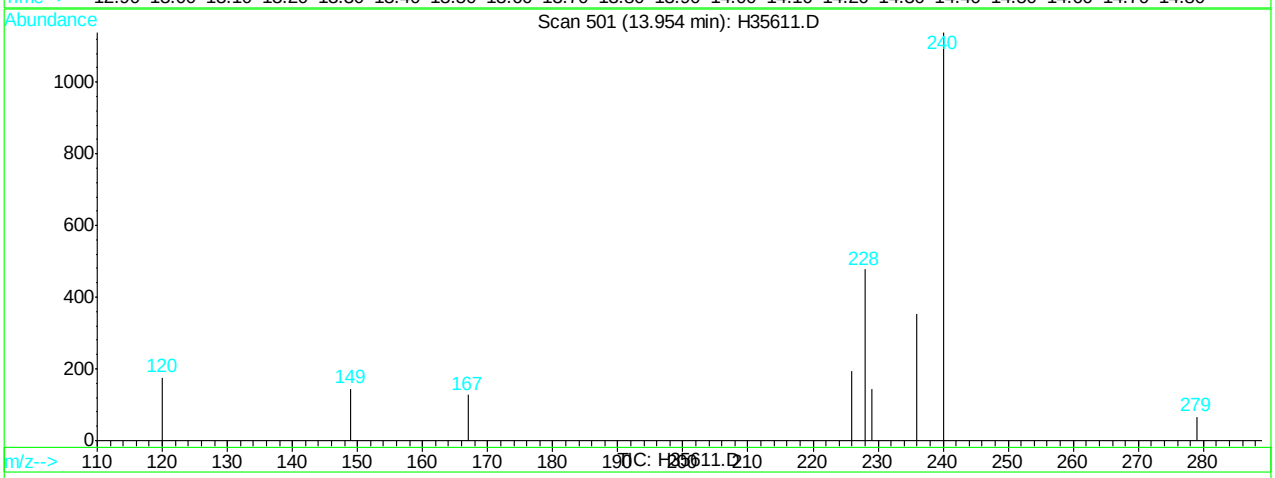
H35611.D H10269SP.M Tue Oct 27 14:44:53 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.95min 0.67ppb m

response 1062

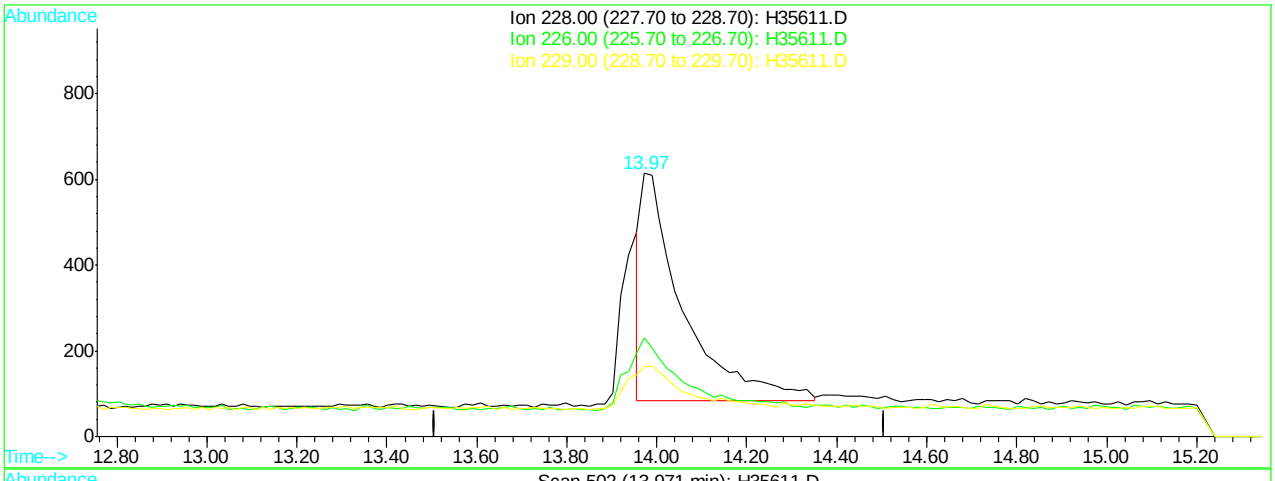
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	30.19#
226.00	30.50	40.46#
0.00	0.00	0.00

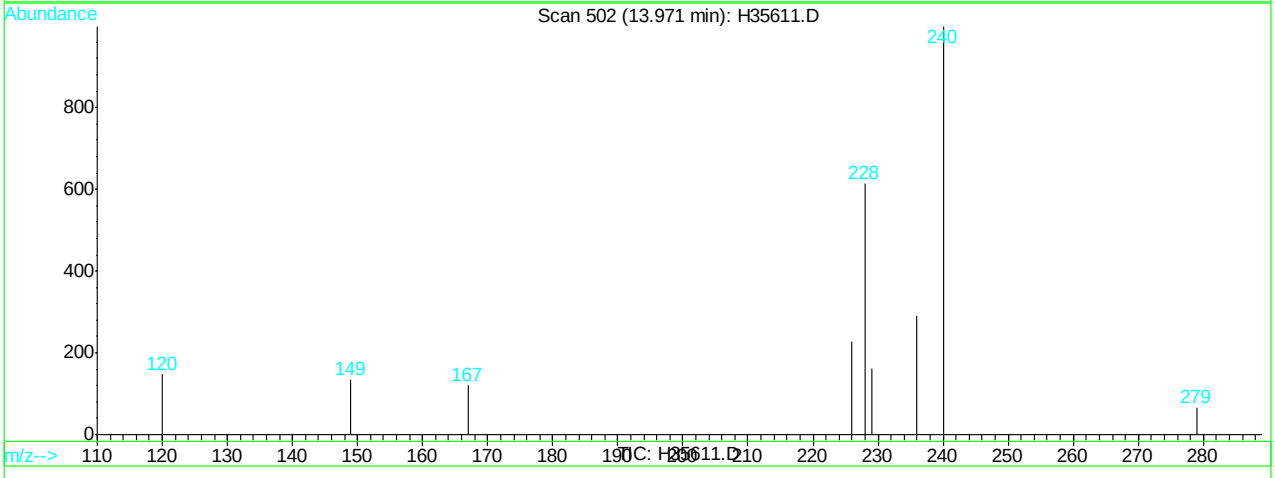
H35611.D H10269SP.M Tue Oct 27 14:44:58 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.97min 1.10ppb m

response 3430

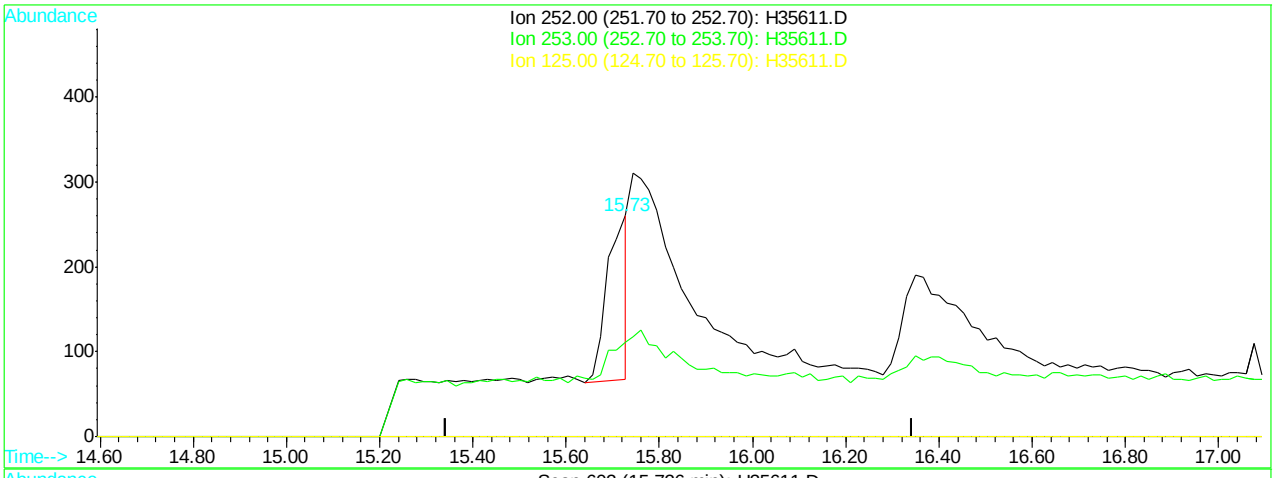
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	37.30
229.00	21.20	26.55
0.00	0.00	0.00

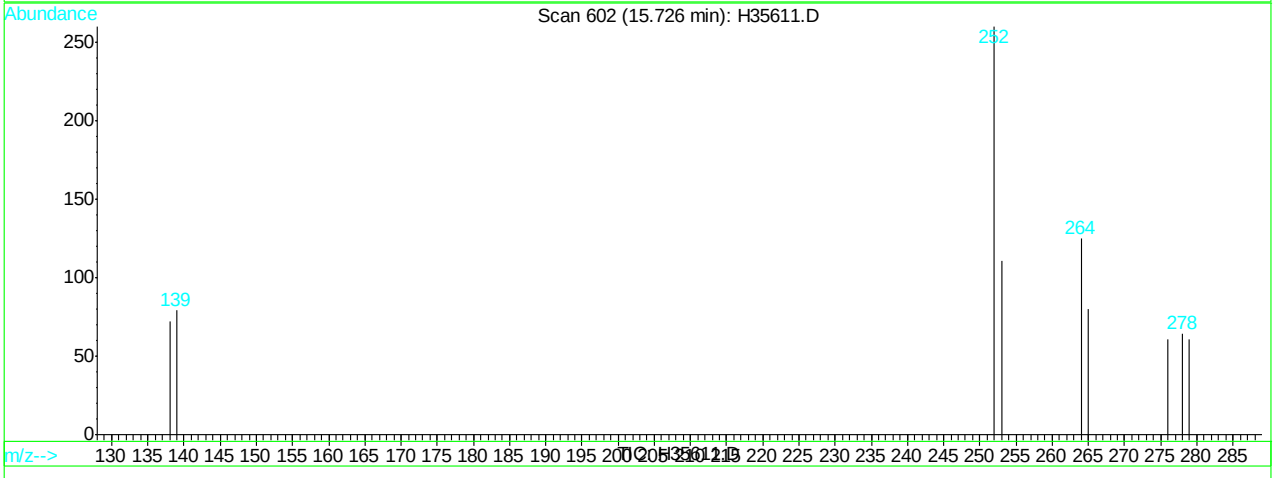
H35611.D H10269SP.M Tue Oct 27 14:45:02 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.73min 0.57ppb m

response 591

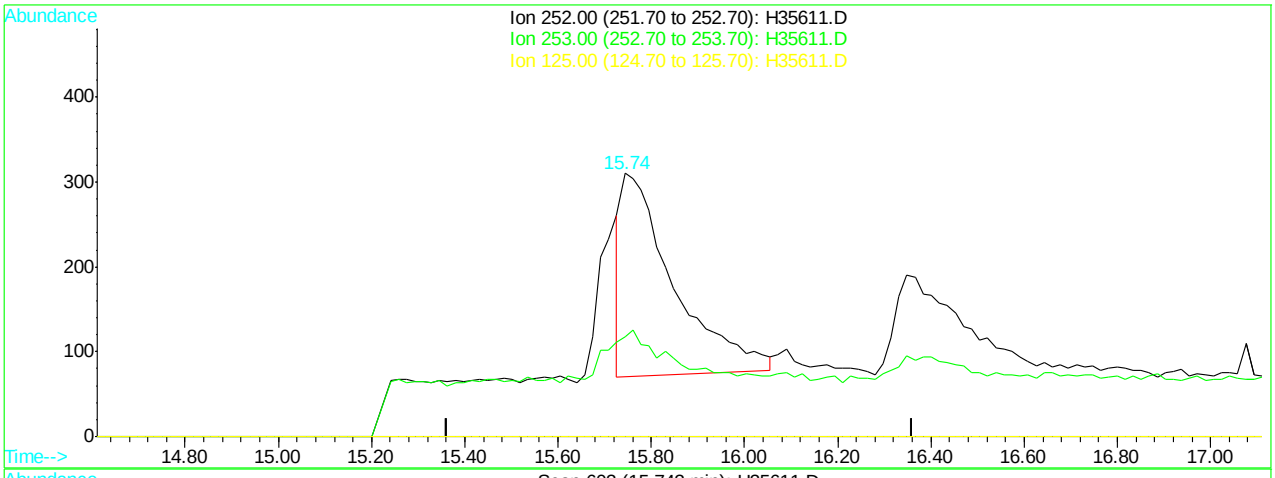
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	42.69#
125.00	0.00	0.00
0.00	0.00	0.00

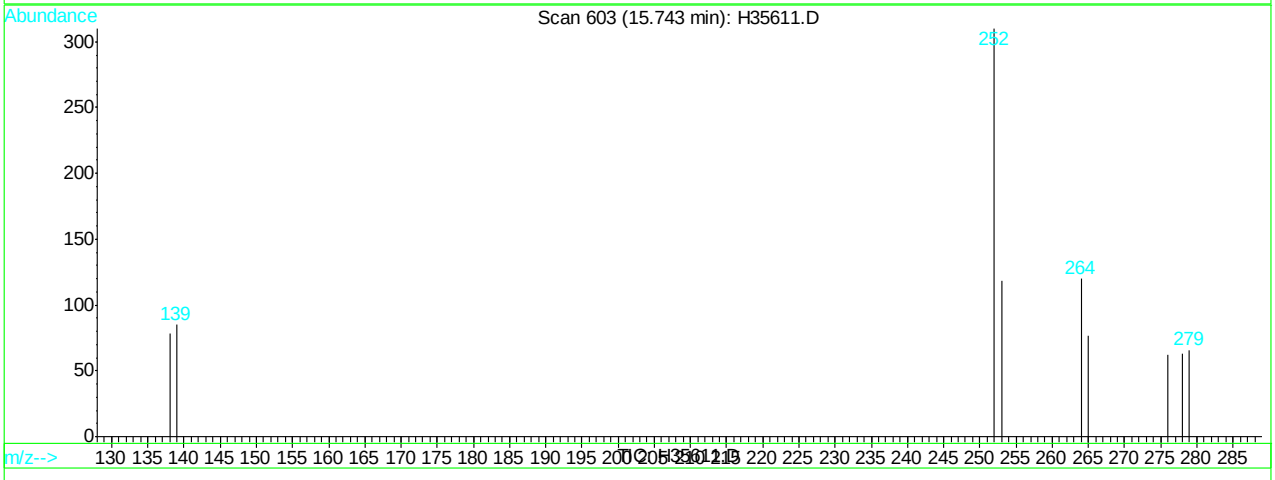
H35611.D H10269SP.M Tue Oct 27 14:45:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.74min 1.05ppb m

response 1851

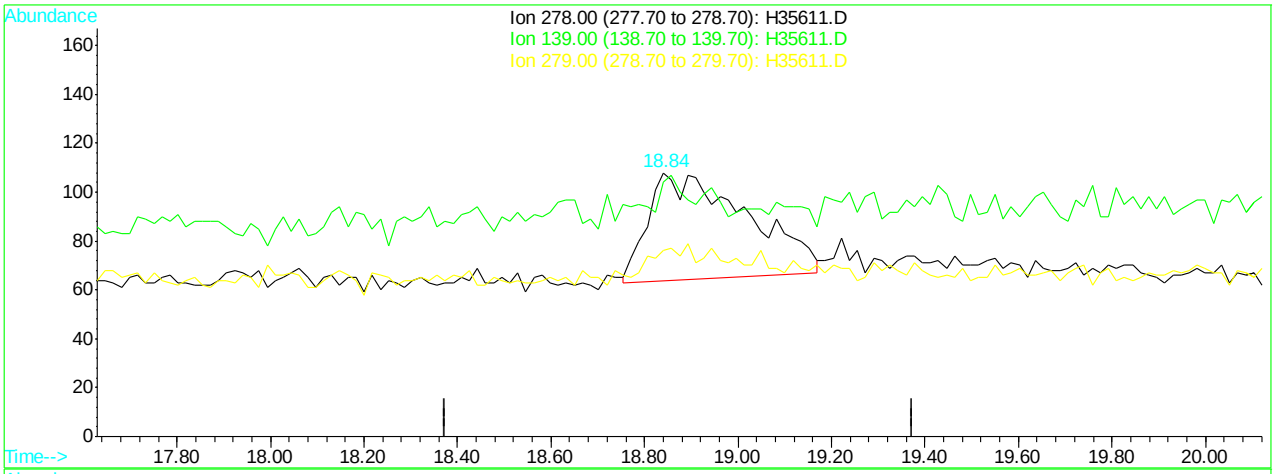
Ion	Exp%	Act%
252.00	100	100
253.00	74.20	38.06#
125.00	0.00	0.00
0.00	0.00	0.00

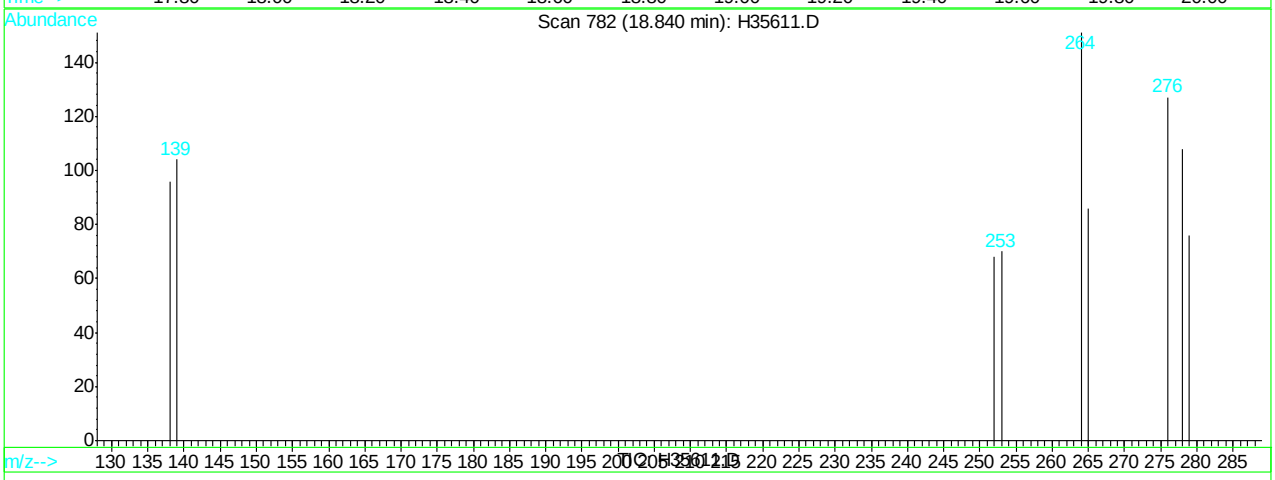
H35611.D H10269SP.M Tue Oct 27 14:45:08 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35611.D Vial: 3
Acq On : 26 Oct 2009 12:39 pm Operator: sheilac
Sample : ic1921-1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

18.84min 1.31ppb m

response 640

Ion	Exp%	Act%
278.00	100	100
139.00	123.90	96.30
279.00	93.00	70.37
0.00	0.00	0.00

H35611.D H10269SP.M Tue Oct 27 14:45:15 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:56:25 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	74110	4.00	ppb	0.03
4) Naphthalene-d8	7.57	136	50894	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	33984	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	42269	4.00	ppb	0.02
21) Chrysene-d12	13.97	240	6599	4.00	ppb	0.07
26) Perylene-d12	16.45	264	4230	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.59	82	105m	0.06	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	1.20%#	
10) 2-Fluorobiphenyl	9.00	172	8101m	0.43	ppb	0.13
Spiked Amount 5.000	Range 15 - 137		Recovery	=	8.60%#	
16) 2,4,6-Tribromophenol	10.51	330	608m	0.50	ppb	0.11
Spiked Amount 10.000	Range 10 - 123		Recovery	=	5.00%#	
23) Terphenyl-d14	12.73	244	600	0.37	ppb	0.06
Spiked Amount 5.000	Range 10 - 160		Recovery	=	7.40%#	

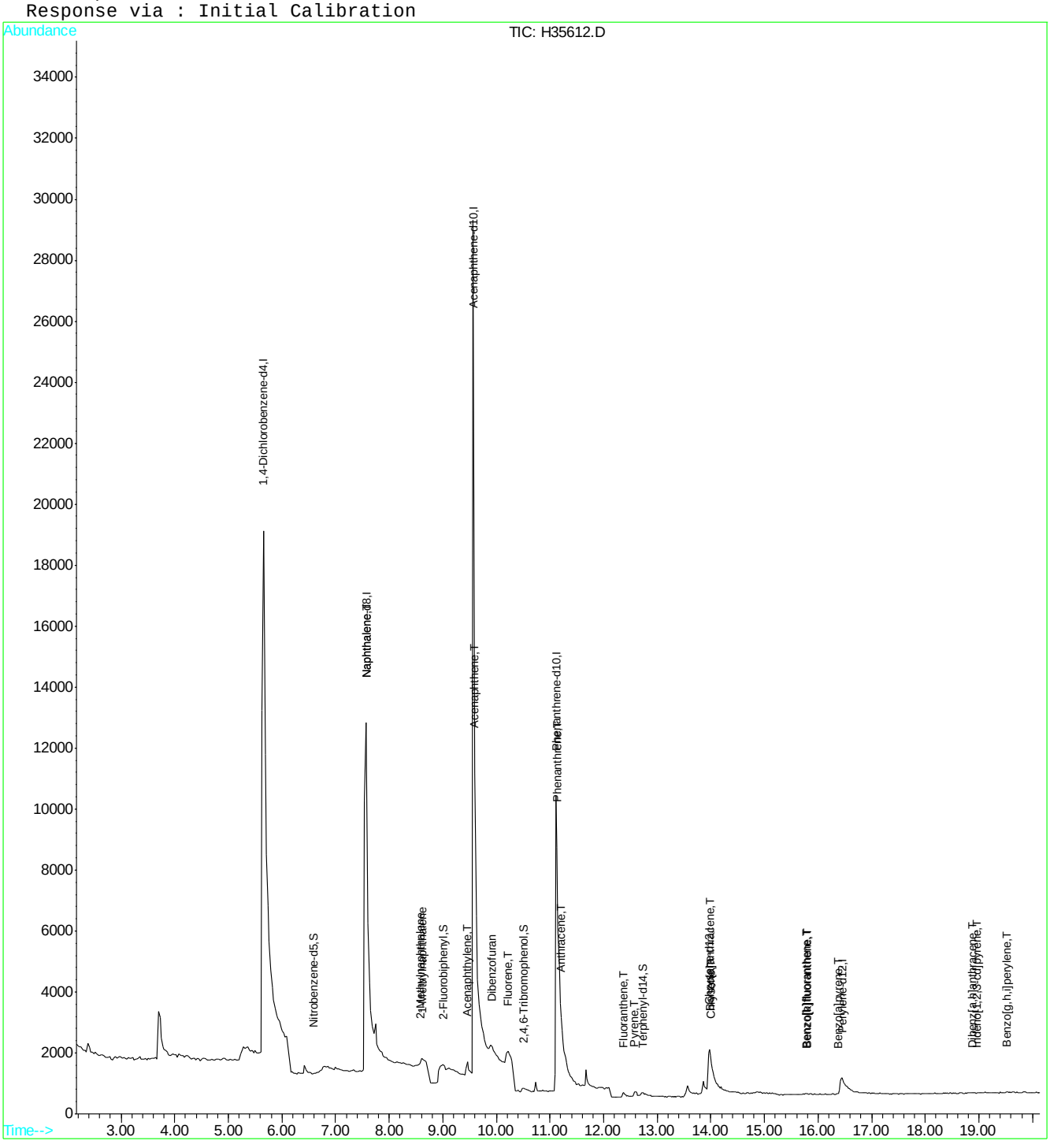
Target Compounds							Qvalue
6) Naphthalene	7.57	128	2228	0.13	ppb	#	90
7) 2-Methylnaphthalene	8.58	142	231m	0.02	ppb		
8) 1-Methylnaphthalene	8.61	142	1582m	0.08	ppb		
11) Acenaphthylene	9.46	152	1536	0.07	ppb		90
12) Acenaphthene	9.60	153	1806	0.10	ppb	#	73
13) Dibenzofuran	9.92	168	2112m	0.12	ppb		
14) Fluorene	10.21	166	1421m	0.16	ppb		
18) Phenanthrene	11.13	178	1629	0.09	ppb	#	89
19) Anthracene	11.21	178	2509m	0.12	ppb		
20) Fluoranthene	12.37	202	603	0.07	ppb	#	82
22) Pyrene	12.57	202	1042	0.10	ppb	#	91
24) Benzo[a]anthracene	13.99	228	273m	0.18	ppb		
25) Chrysene	14.01	228	246m	0.08	ppb		
27) Benzo[b]fluoranthene	15.78	252	96m	0.08	ppb		
28) Benzo[k]fluoranthene	15.79	252	107m	0.06	ppb		
29) Benzo[a]pyrene	16.37	252	83	0.06	ppb	#	44
30) Indeno[1,2,3-cd]pyrene	18.96	276	70	0.09	ppb	#	18
31) Dibenz[a,h]anthracene	18.87	278	38	0.07	ppb	#	63
32) Benzo[g,h,i]perylene	19.51	276	31	0.04	ppb	#	14

(#) = qualifier out of range (m) = manual integration
H35612.D H10269SP.M Tue Oct 27 14:45:21 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: H10269SP.RES

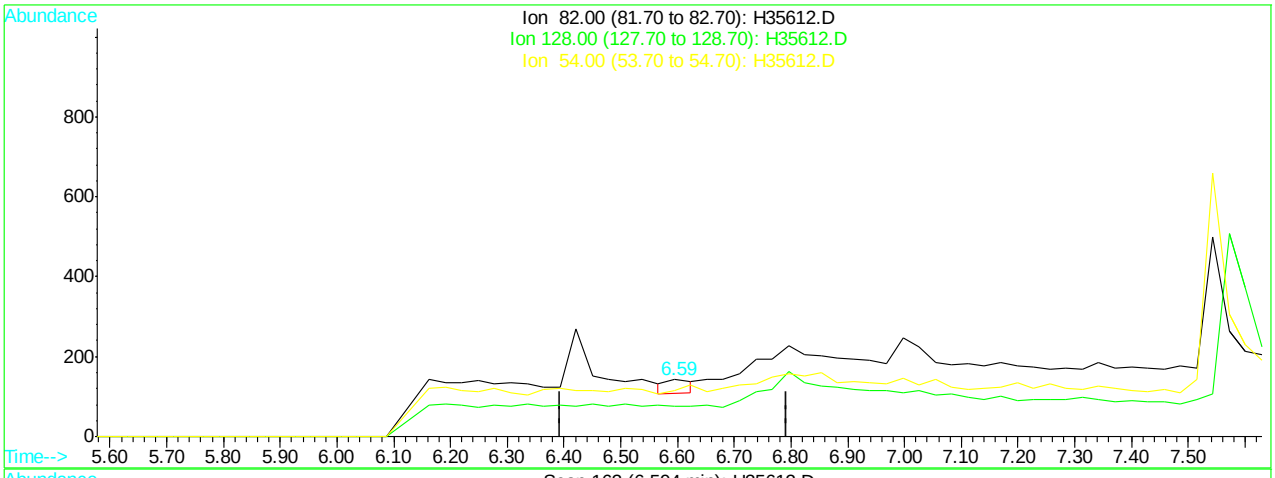
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

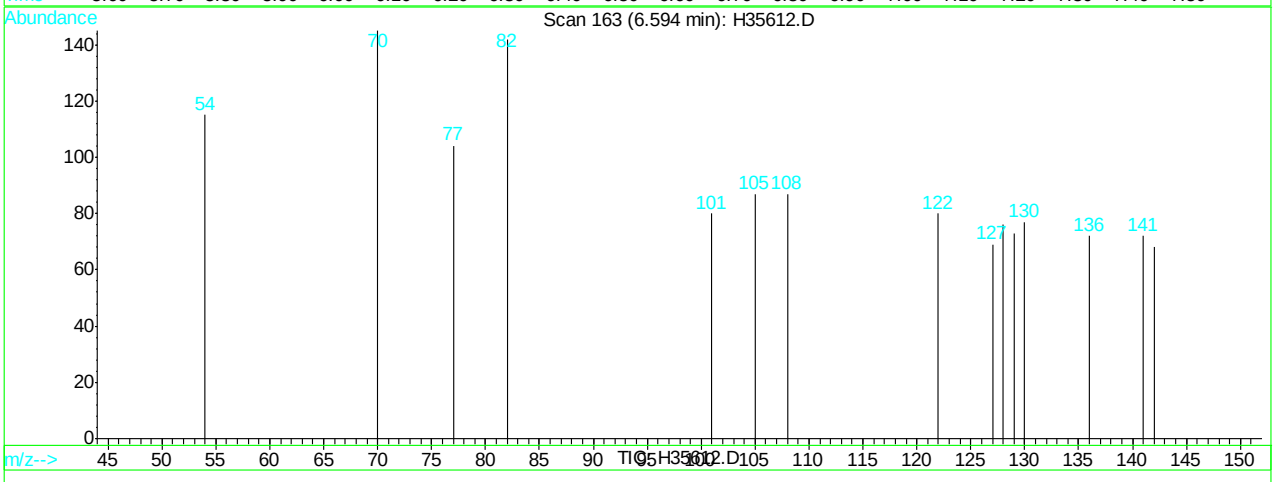


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.59min 0.06ppb m

response 105

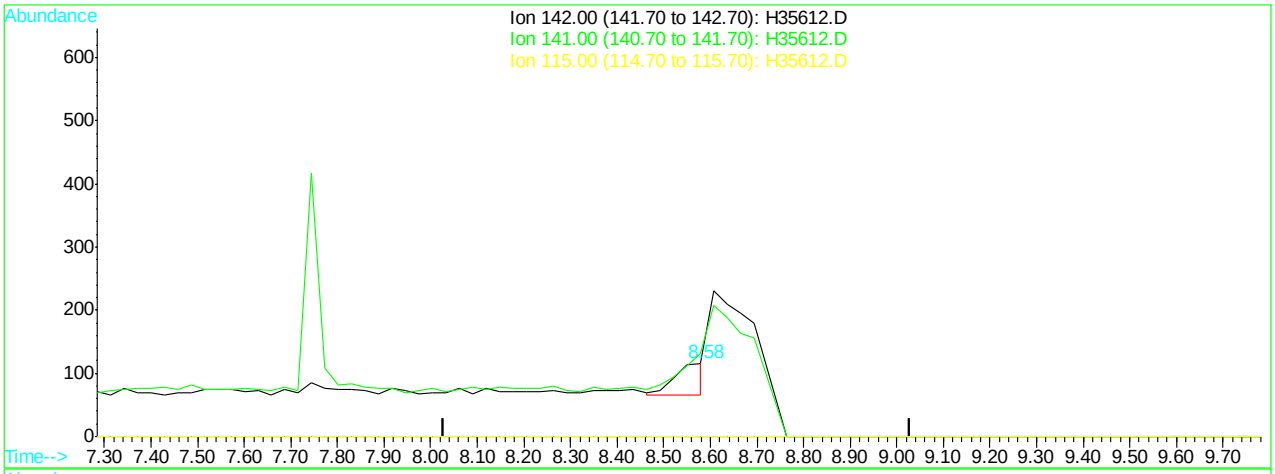
Ion	Exp%	Act%
82.00	100	100
128.00	7.60	53.52#
54.00	375.50	80.99#
0.00	0.00	0.00

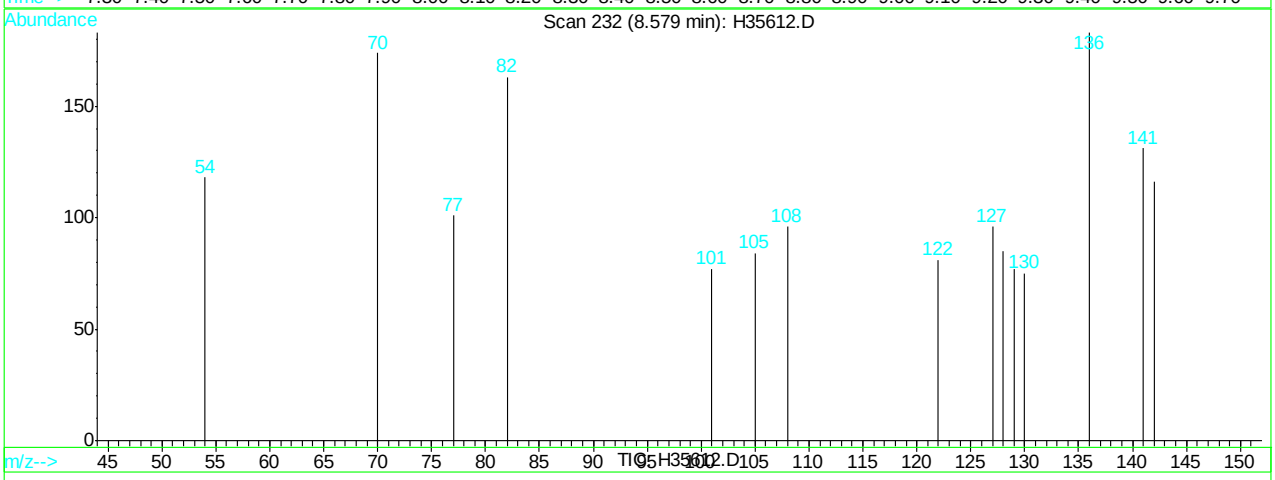
H35612.D H10269SP.M Tue Oct 27 14:46:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.58min 0.02ppb m

response 231

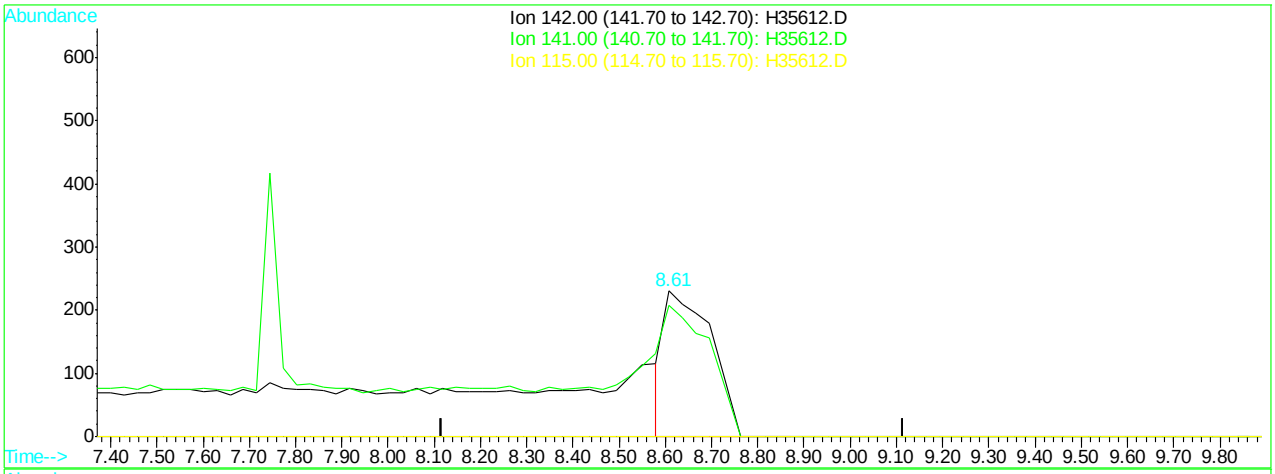
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	960.17#
115.00	0.00	0.00
0.00	0.00	0.00

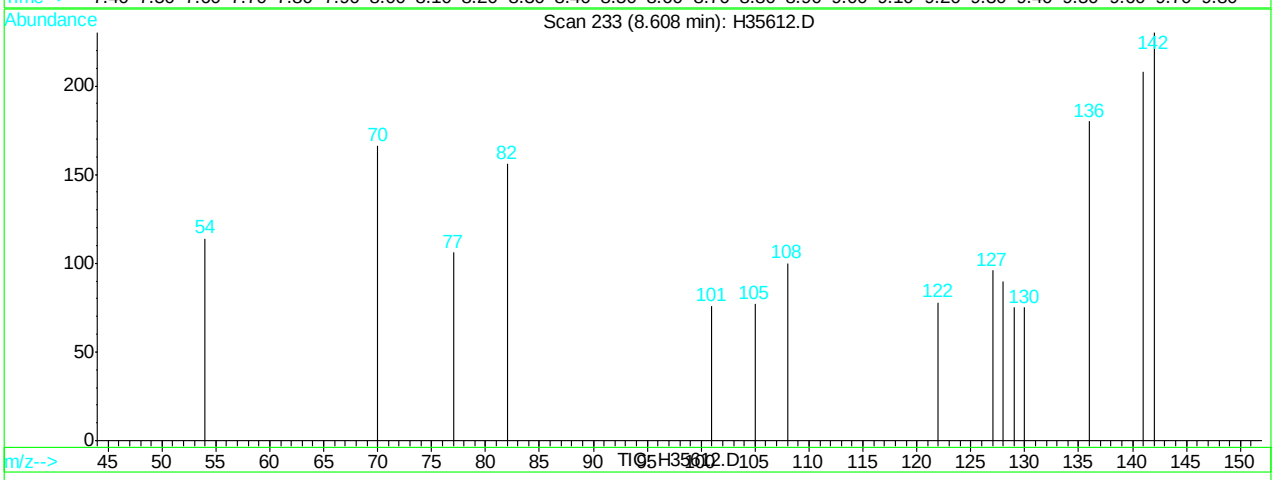
H35612.D H10269SP.M Tue Oct 27 14:46:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.61min 0.08ppb m

response 1582

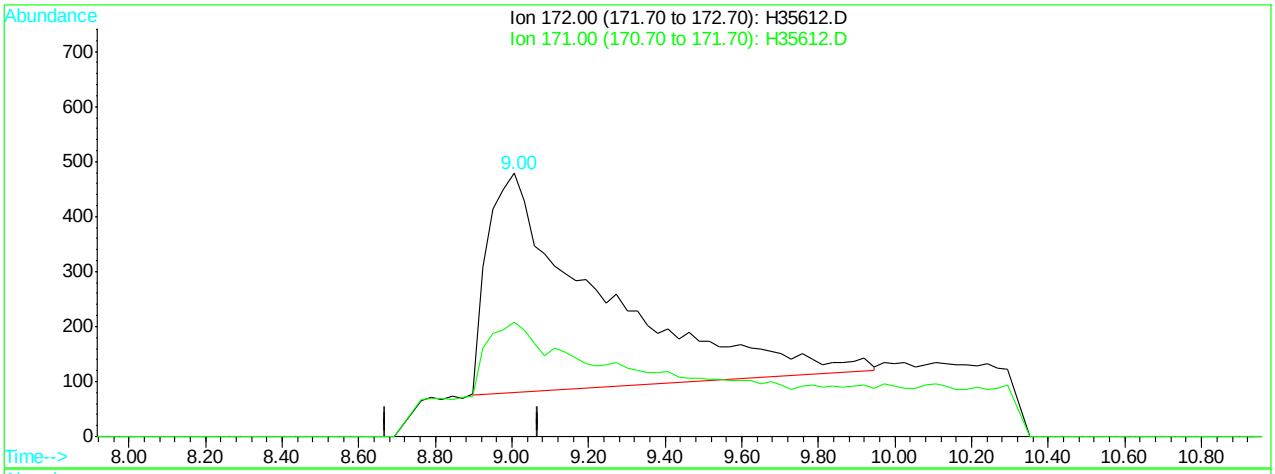
Ion	Exp%	Act%
142.00	100	100
141.00	86.50	140.20#
115.00	0.00	0.00
0.00	0.00	0.00

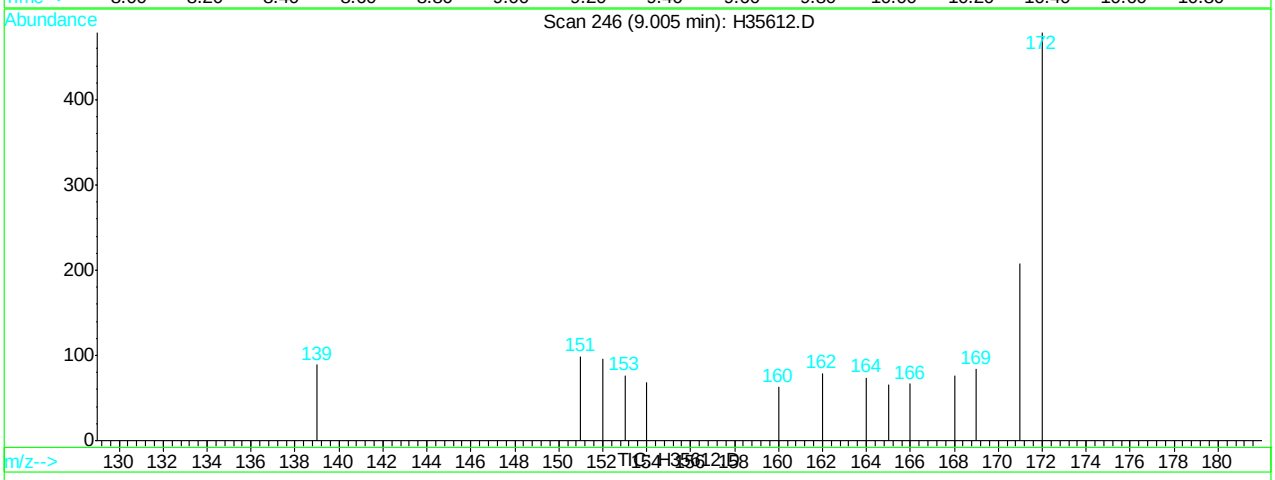
H35612.D H10269SP.M Tue Oct 27 14:46:18 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(10) 2-Fluorobiphenyl (S)

9.00min 0.43ppb m

response 8101

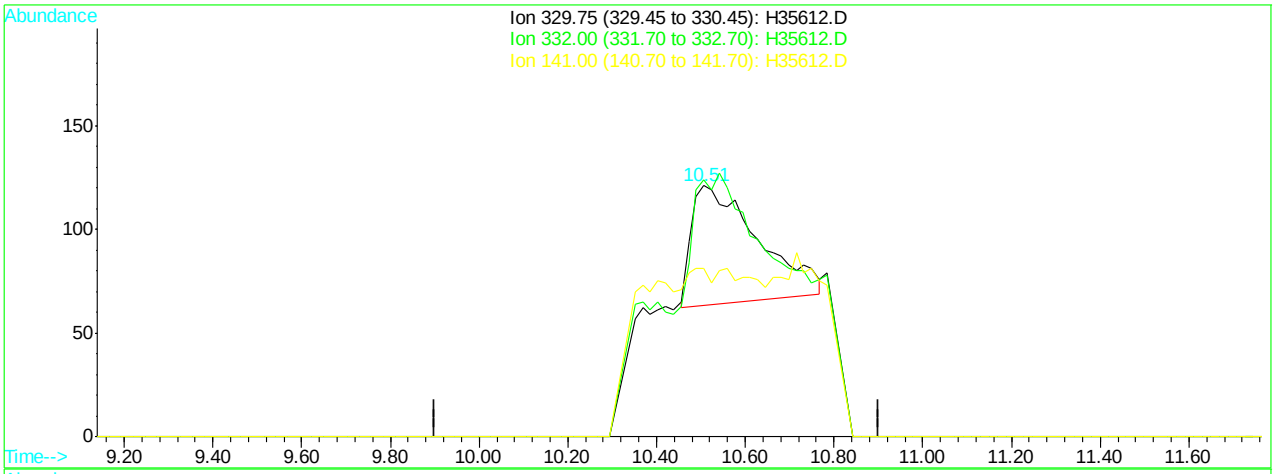
Ion	Exp%	Act%
172.00	100	100
171.00	27.30	43.42#
0.00	0.00	0.00
0.00	0.00	0.00

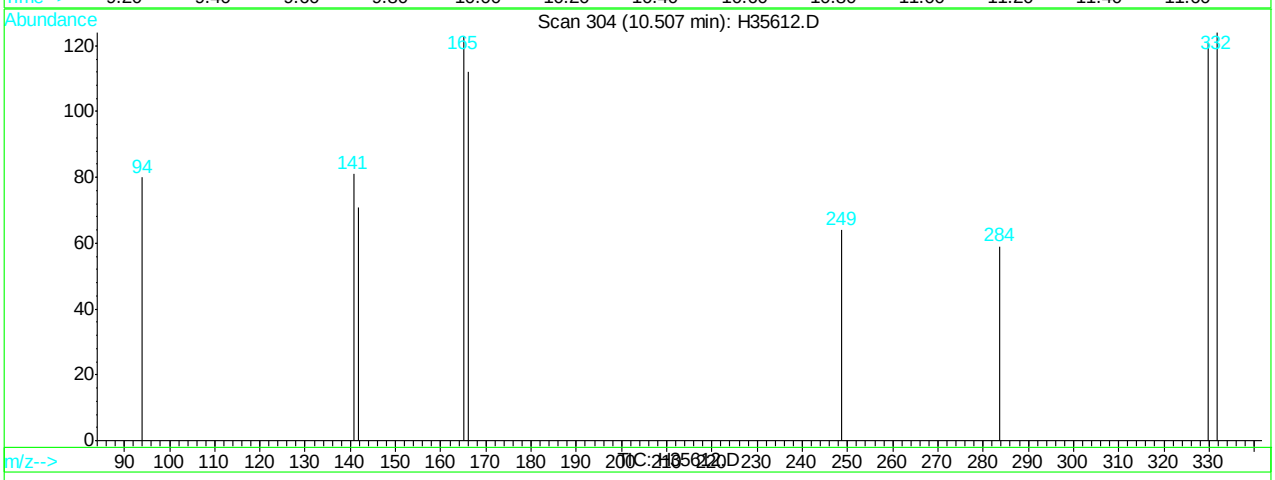
H35612.D H10269SP.M Tue Oct 27 14:46:23 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.51min 0.50ppb m

response 608

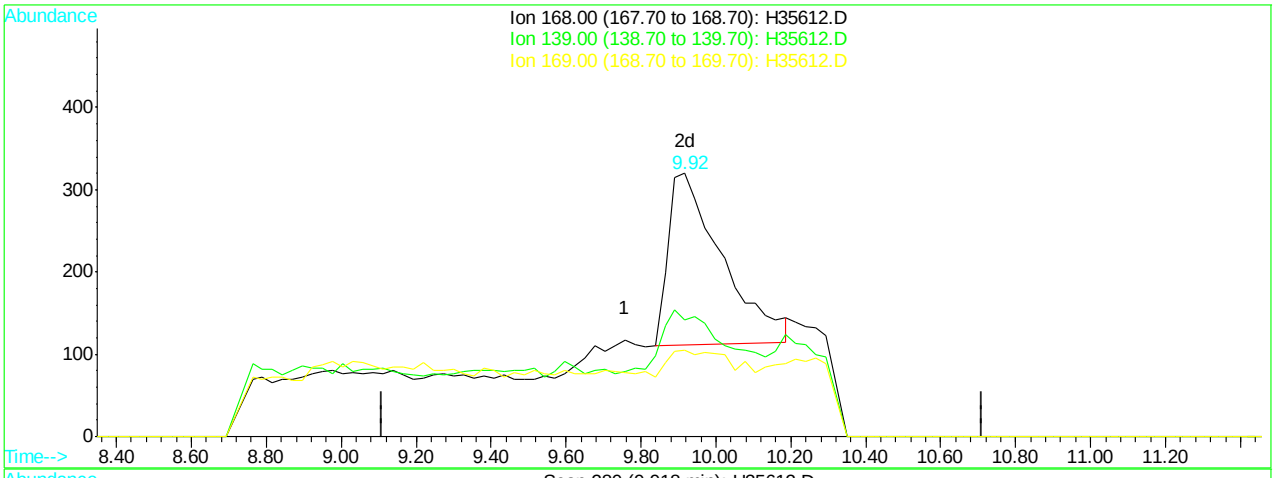
Ion	Exp%	Act%
329.75	100	100
332.00	102.30	360.20#
141.00	16.20	0.00#
0.00	0.00	0.00

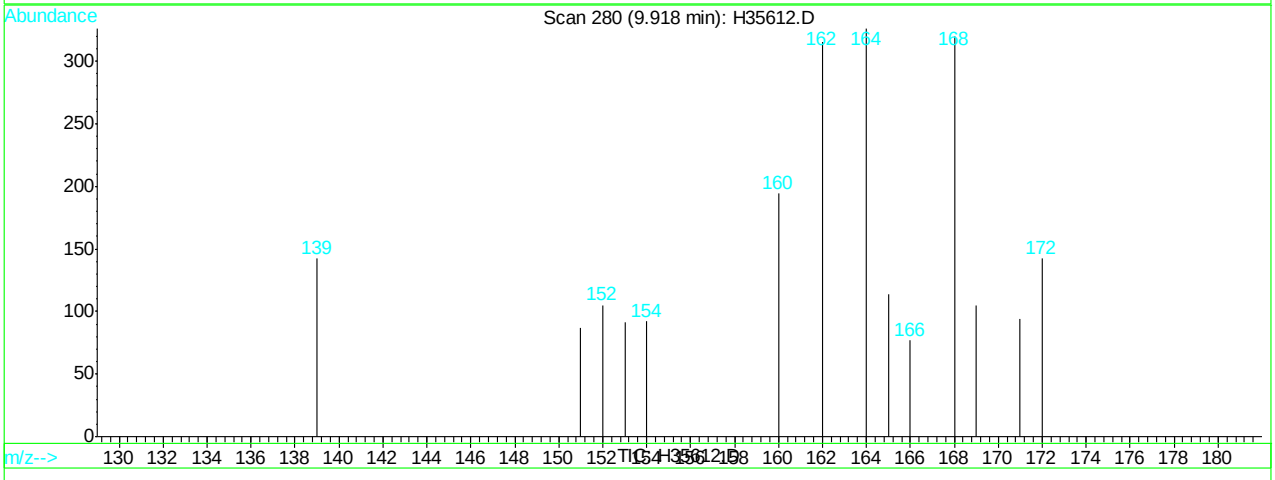
H35612.D H10269SP.M Tue Oct 27 14:46:27 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(13) Dibenzofuran

9.92min 0.12ppb m

response 2112

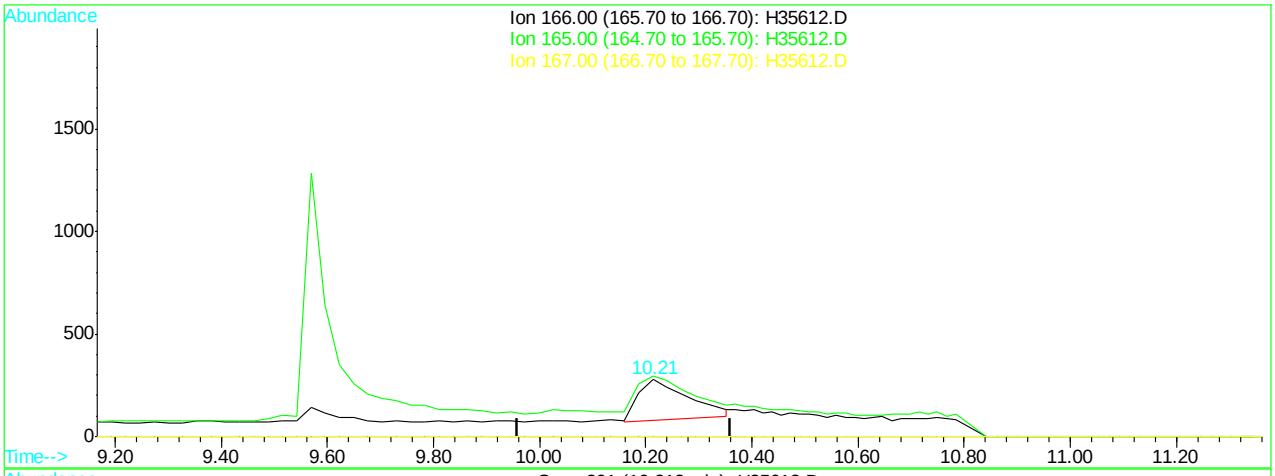
Ion	Exp%	Act%
168.00	100	100
139.00	48.10	0.00#
169.00	14.00	0.00#
0.00	0.00	0.00

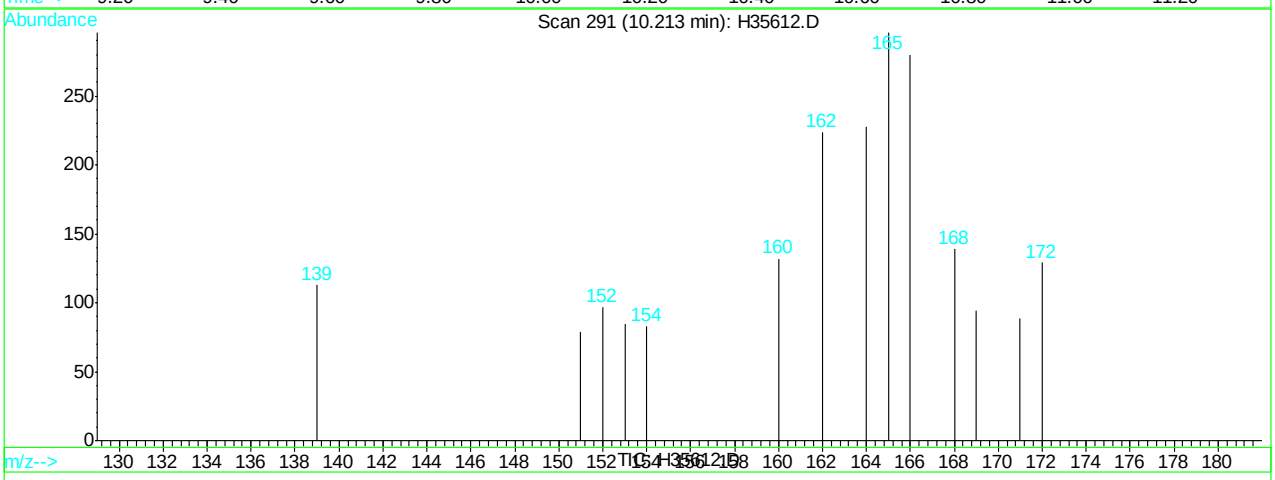
H35612.D H10269SP.M Tue Oct 27 14:46:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.21min 0.16ppb m

response 1421

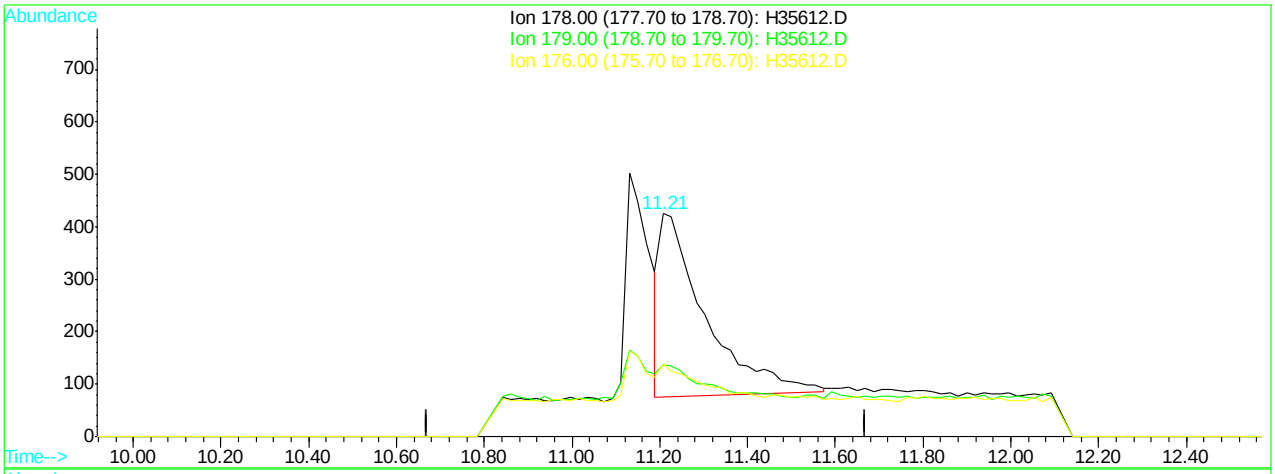
Ion	Exp%	Act%
166.00	100	100
165.00	75.90	105.71#
167.00	0.00	0.00
0.00	0.00	0.00

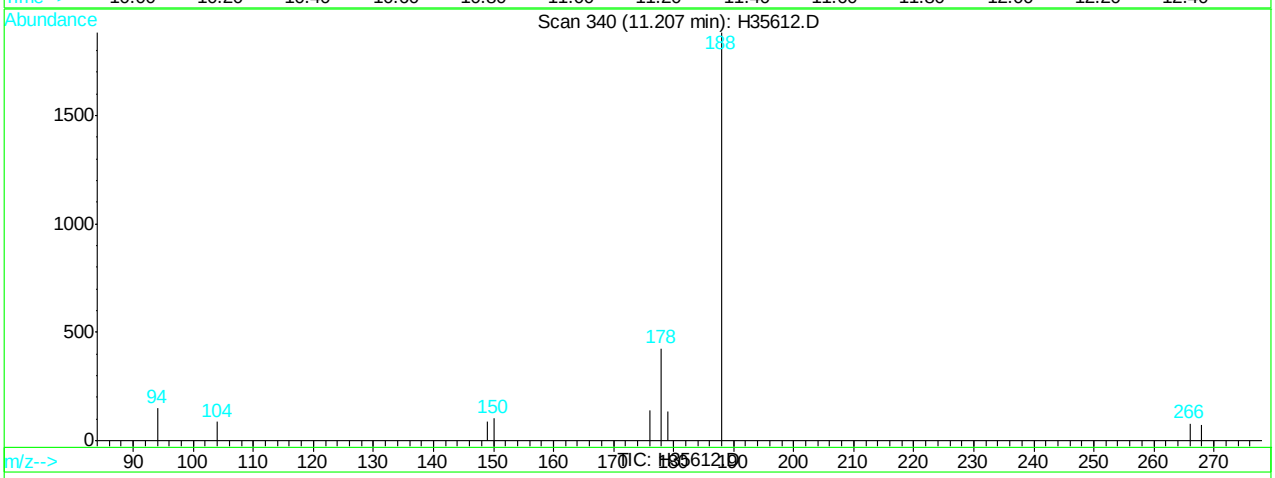
H35612.D H10269SP.M Tue Oct 27 14:46:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.21min 0.12ppb m

response 2509

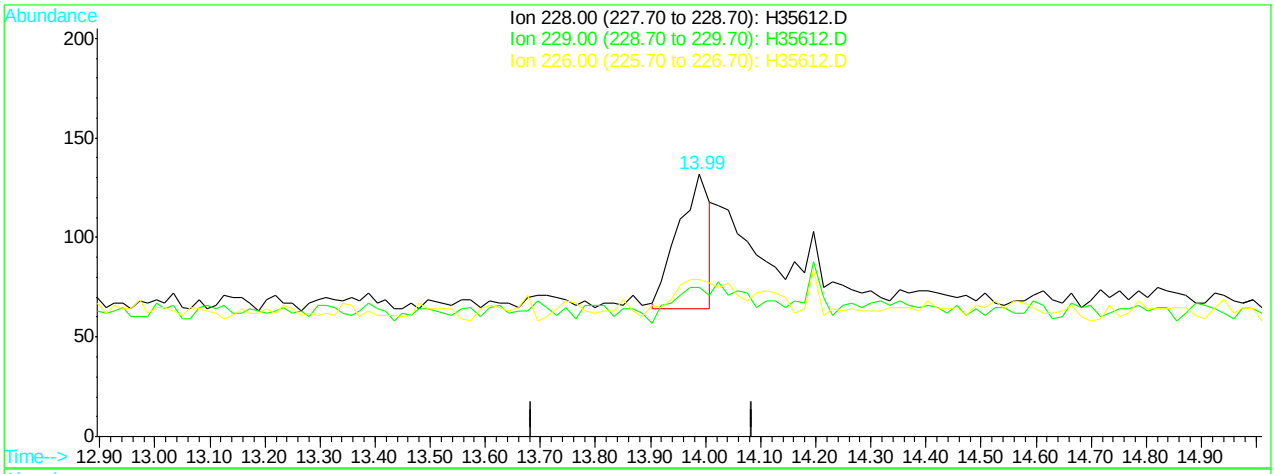
Ion	Exp%	Act%
178.00	100	100
179.00	15.10	32.00#
176.00	19.00	32.94#
0.00	0.00	0.00

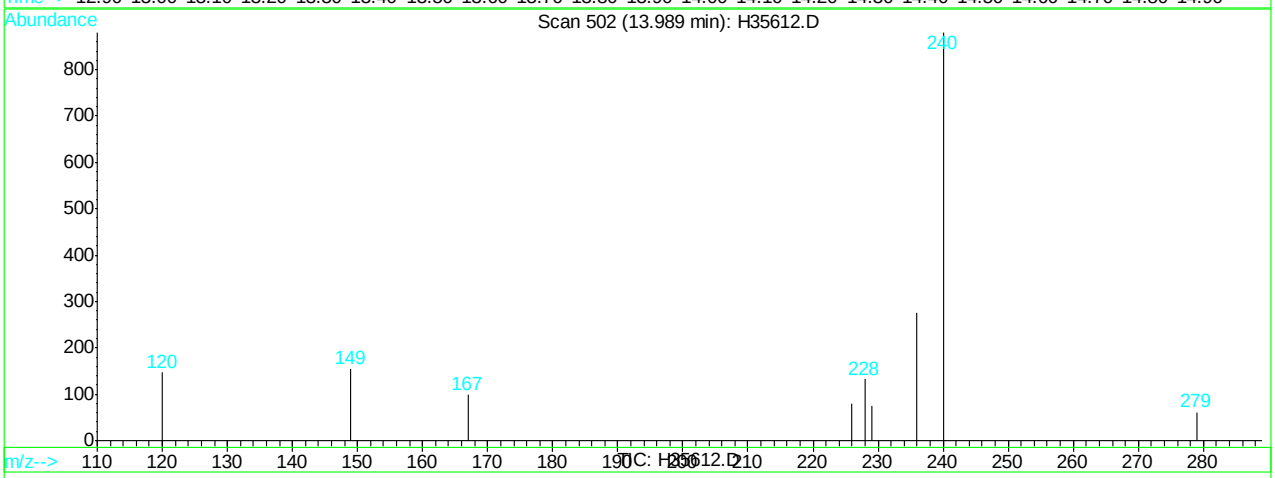
H35612.D H10269SP.M Tue Oct 27 14:46:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.99min 0.18ppb m

response 273

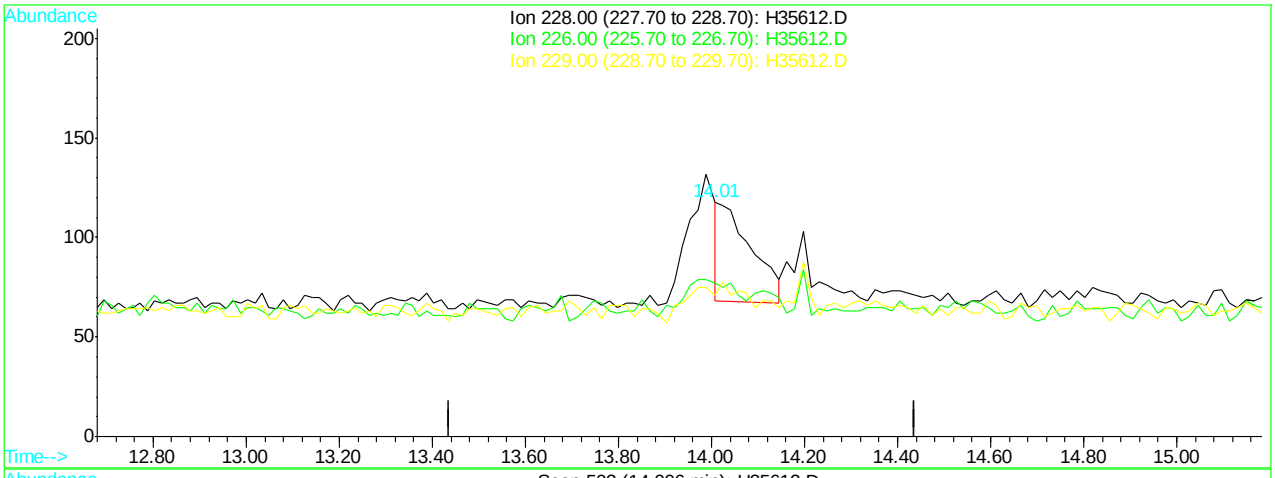
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	56.82#
226.00	30.50	59.85#
0.00	0.00	0.00

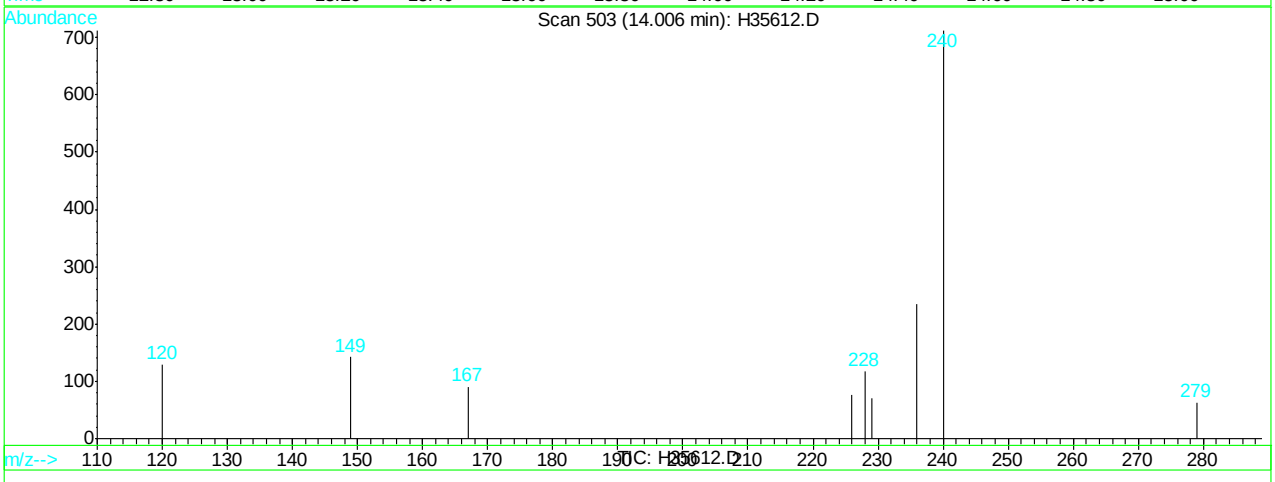
H35612.D H10269SP.M Tue Oct 27 14:47:05 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

14.01min 0.08ppb m

response 246

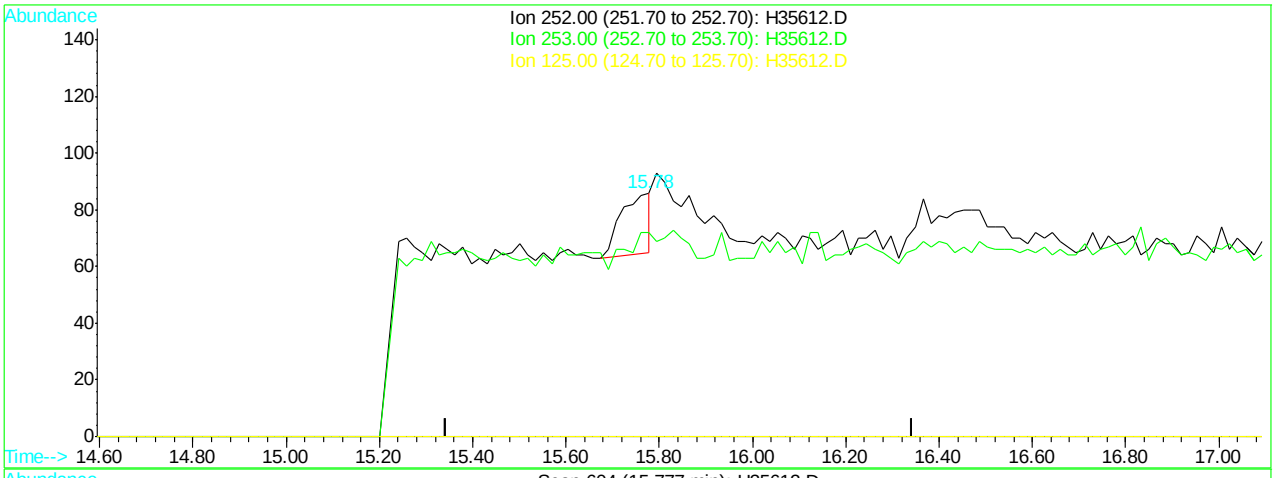
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	65.25#
229.00	21.20	60.17#
0.00	0.00	0.00

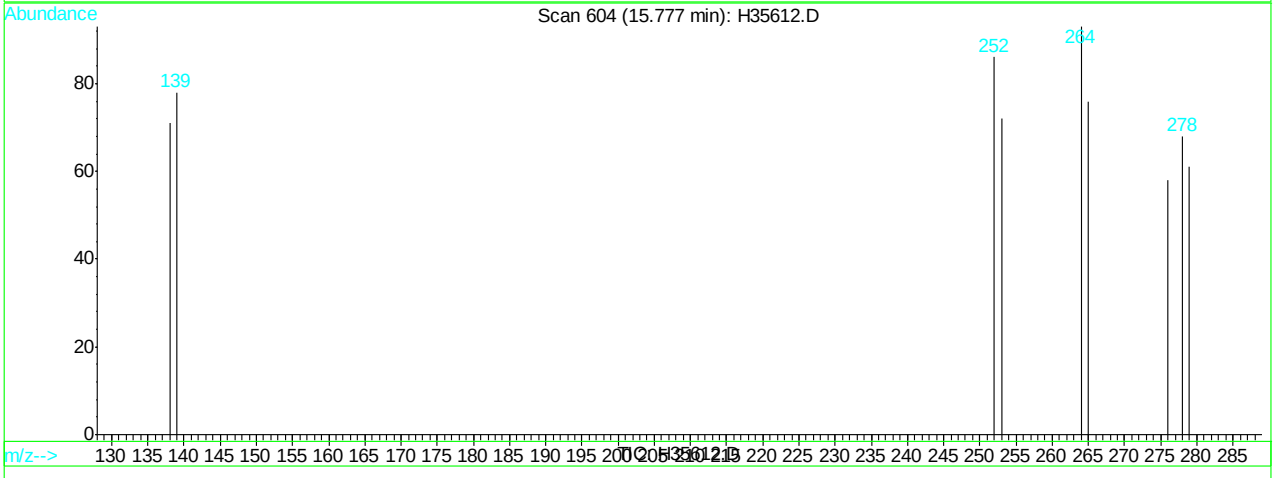
H35612.D H10269SP.M Tue Oct 27 14:47:08 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.78min 0.08ppb m

response 96

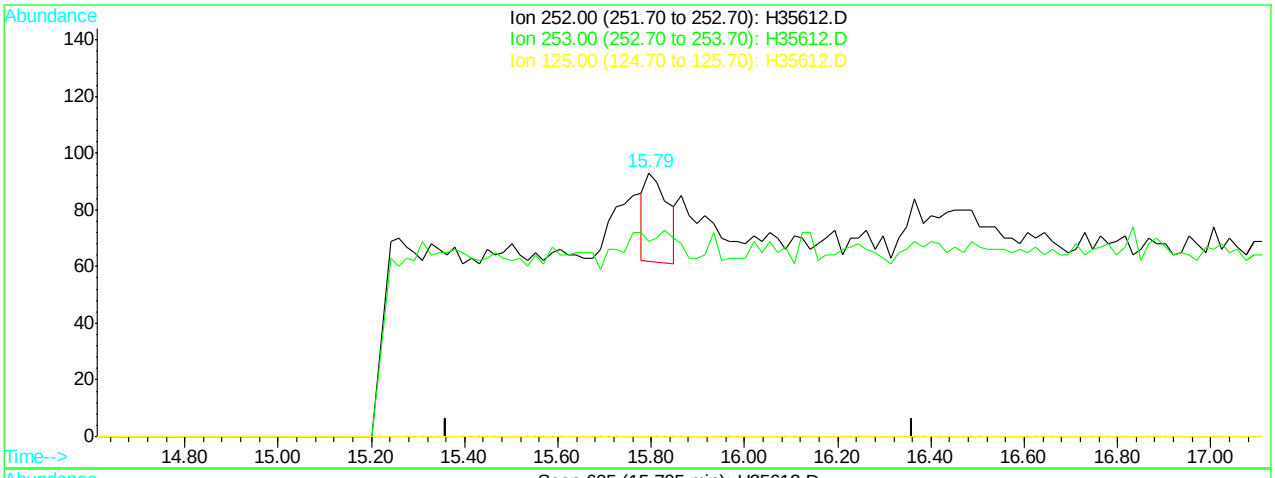
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	83.72
125.00	0.00	0.00
0.00	0.00	0.00

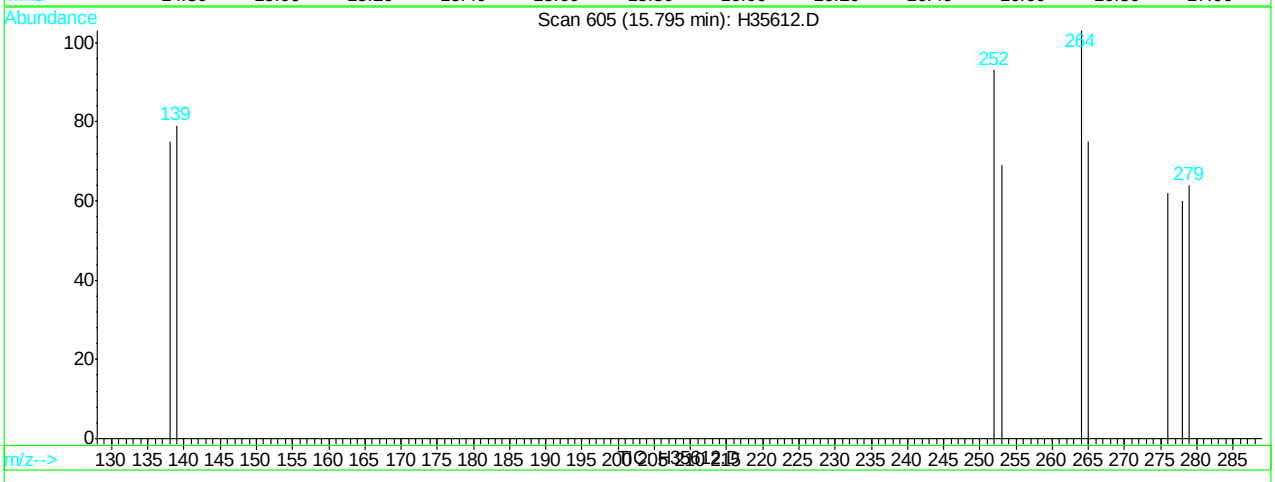
H35612.D H10269SP.M Tue Oct 27 14:47:12 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35612.D Vial: 4
Acq On : 26 Oct 2009 1:07 pm Operator: sheilac
Sample : ic1921-0.1 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:11 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.79min 0.06ppb m

response 107

Ion	Exp%	Act%
252.00	100	100
253.00	74.20	74.19
125.00	0.00	0.00
0.00	0.00	0.00

H35612.D H10269SP.M Tue Oct 27 14:47:15 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:58:52 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	78447	4.00	ppb	0.00
4) Naphthalene-d8	7.55	136	56194	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	38709	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	44969	4.00	ppb	0.02
21) Chrysene-d12	13.97	240	6928	4.00	ppb	0.00
26) Perylene-d12	16.45	264	3884	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.71	82	1017m	0.55	ppb	0.12
Spiked Amount 5.000	Range 17 - 131		Recovery	=	11.00%#	
10) 2-Fluorobiphenyl	8.92	172	20811m	0.97	ppb	0.05
Spiked Amount 5.000	Range 15 - 137		Recovery	=	19.40%	
16) 2,4,6-Tribromophenol	10.49	330	1452m	1.12	ppb	0.09
Spiked Amount 10.000	Range 10 - 123		Recovery	=	11.20%	
23) Terphenyl-d14	12.73	244	1186	0.69	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	13.80%	

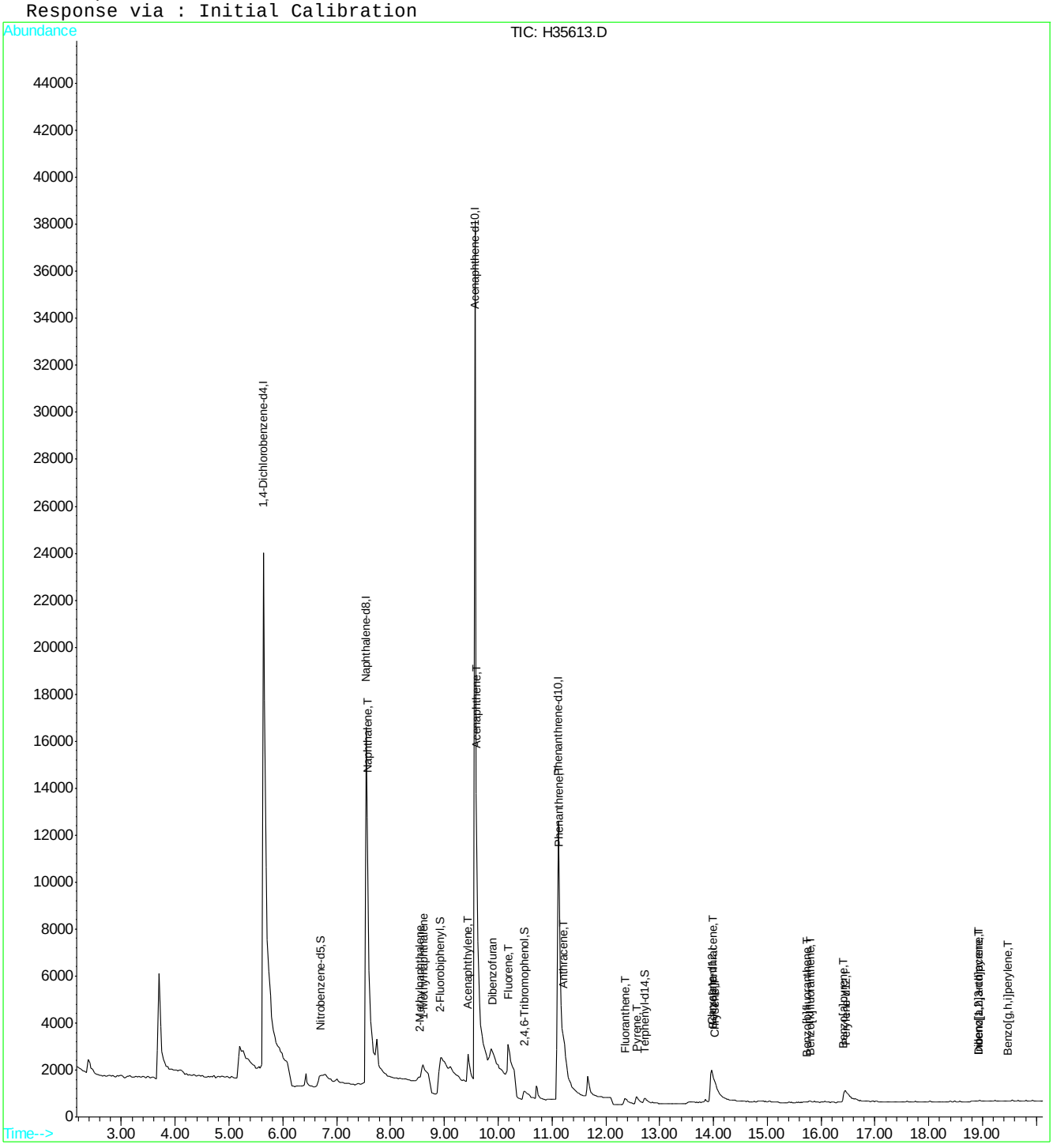
Target Compounds							Qvalue
6) Naphthalene	7.57	128	4022	0.21	ppb		94
7) 2-Methylnaphthalene	8.55	142	506m	0.04	ppb		
8) 1-Methylnaphthalene	8.61	142	3635m	0.17	ppb		
11) Acenaphthylene	9.43	152	3471	0.15	ppb		99
12) Acenaphthene	9.60	153	3804	0.18	ppb	#	71
13) Dibenzofuran	9.89	168	5074m	0.25	ppb		
14) Fluorene	10.19	166	2773m	0.27	ppb		
18) Phenanthrene	11.13	178	2766	0.14	ppb		96
19) Anthracene	11.21	178	4438	0.19	ppb		97
20) Fluoranthene	12.36	202	1121	0.12	ppb		96
22) Pyrene	12.57	202	1559	0.14	ppb		97
24) Benzo[a]anthracene	13.99	228	501m	0.32	ppb		
25) Chrysene	14.02	228	369m	0.12	ppb		
27) Benzo[b]fluoranthene	15.74	252	121m	0.11	ppb		
28) Benzo[k]fluoranthene	15.79	252	320m	0.18	ppb		
29) Benzo[a]pyrene	16.42	252	229	0.19	ppb	#	8
30) Indeno[1,2,3-cd]pyrene	18.93	276	59	0.09	ppb	#	26
31) Dibenz[a,h]anthracene	18.93	278	86	0.17	ppb	#	1
32) Benzo[g,h,i]perylene	19.46	276	93	0.14	ppb		89

(#) = qualifier out of range (m) = manual integration
H35613.D H10269SP.M Tue Oct 27 14:47:22 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: H10269SP.RES

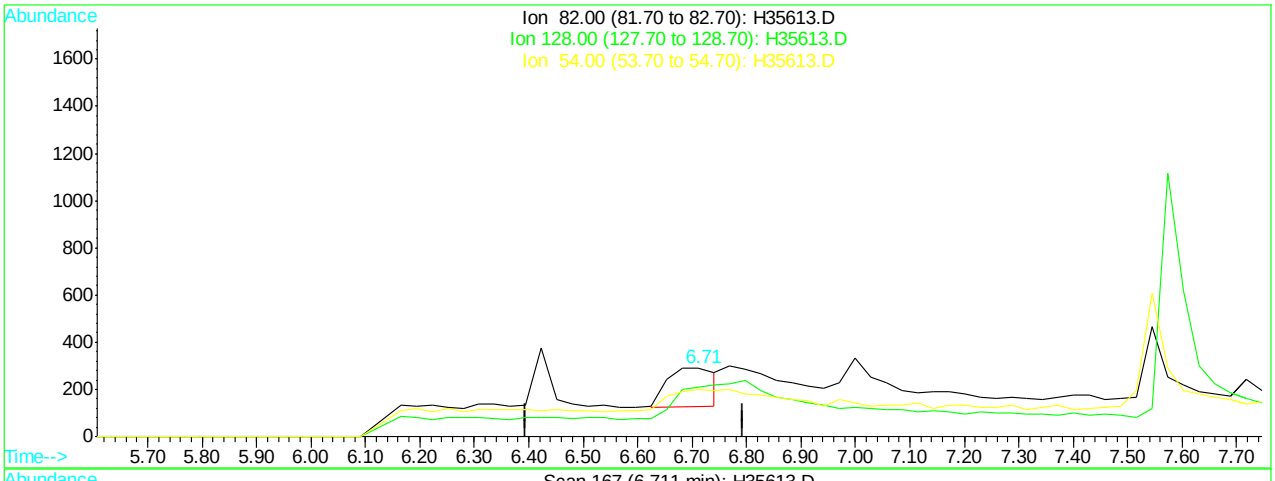
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

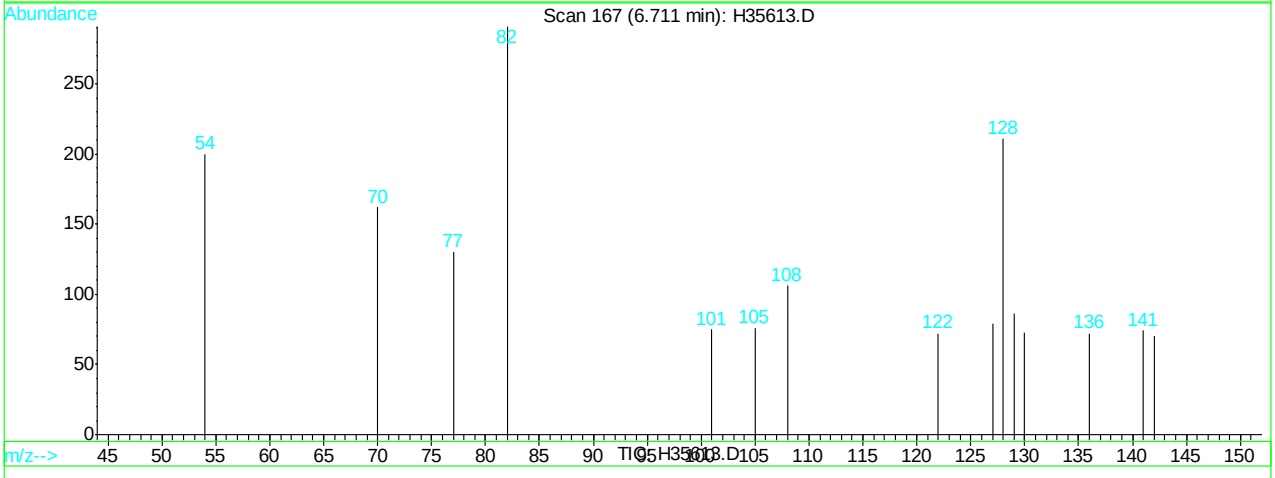


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.71min 0.55ppb m

response 1017

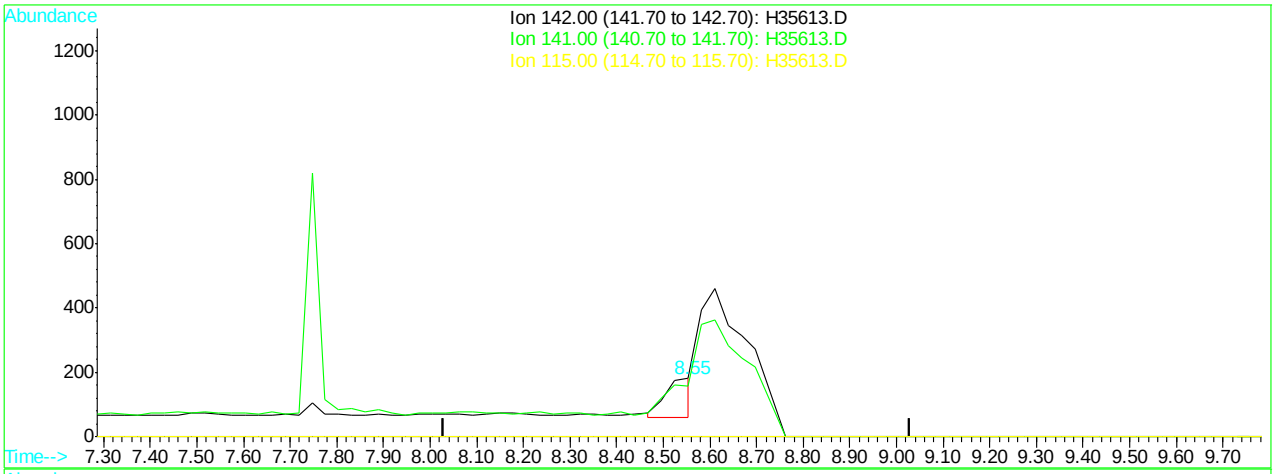
Ion	Exp%	Act%
82.00	100	100
128.00	7.60	72.51#
54.00	375.50	68.73#
0.00	0.00	0.00

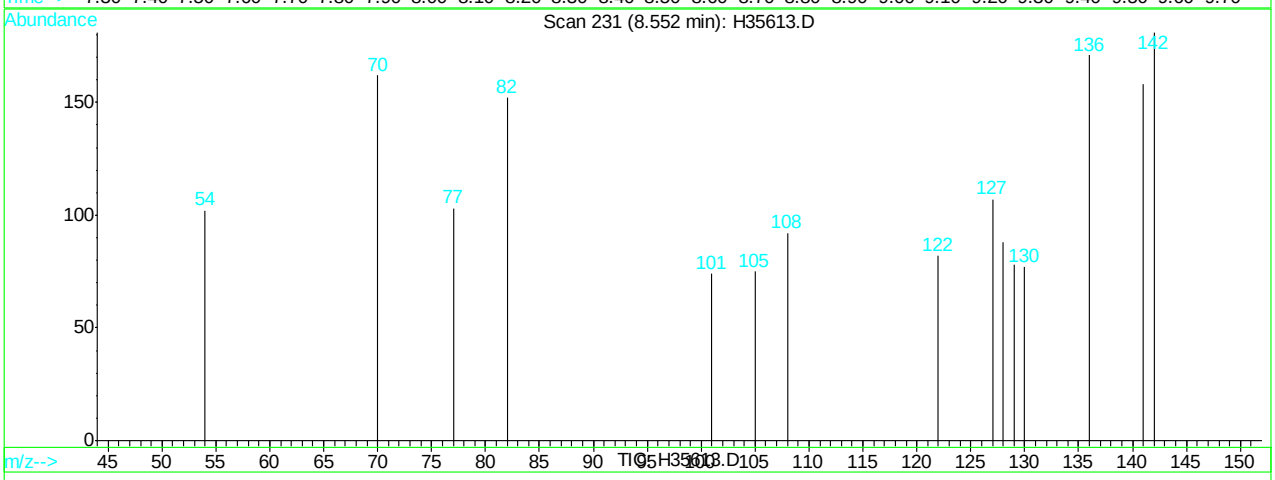
H35613.D H10269SP.M Tue Oct 27 14:48:04 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.04ppb m

response 506

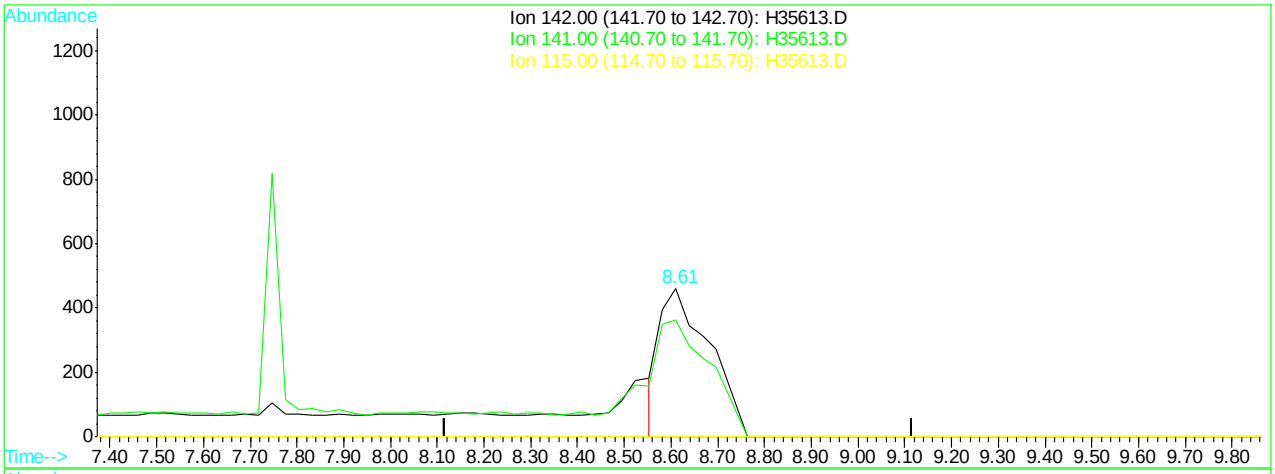
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	744.66#
115.00	0.00	0.00
0.00	0.00	0.00

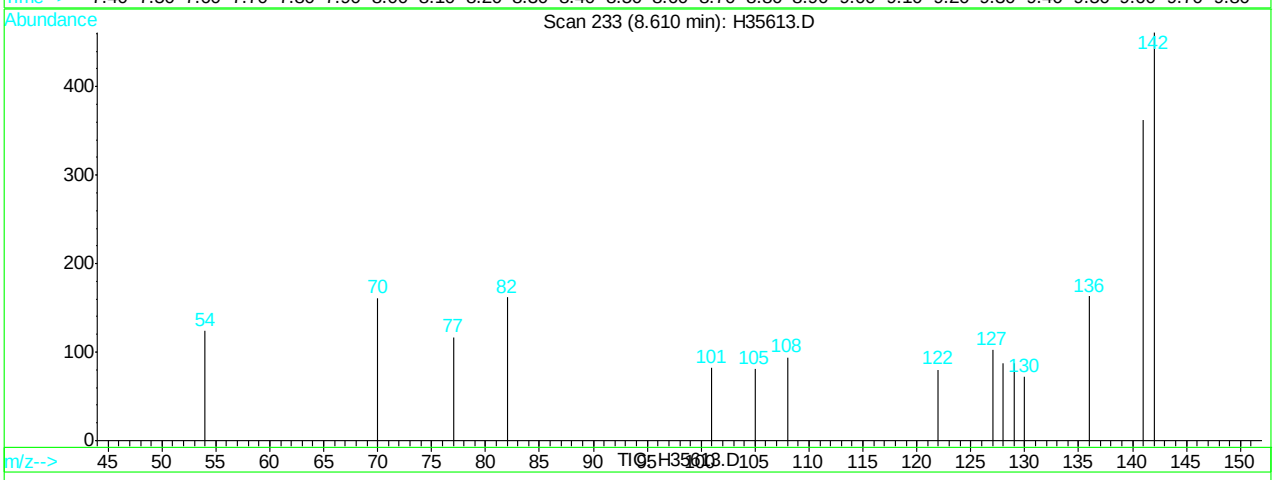
H35613.D H10269SP.M Tue Oct 27 14:48:08 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.61min 0.17ppb m

response 3635

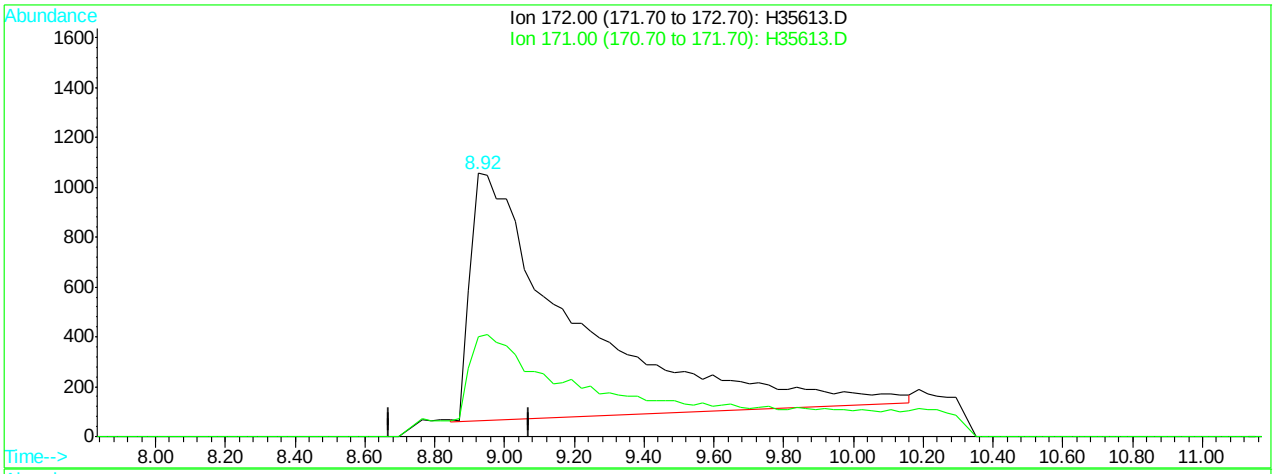
Ion	Exp%	Act%
142.00	100	100
141.00	86.50	103.66
115.00	0.00	0.00
0.00	0.00	0.00

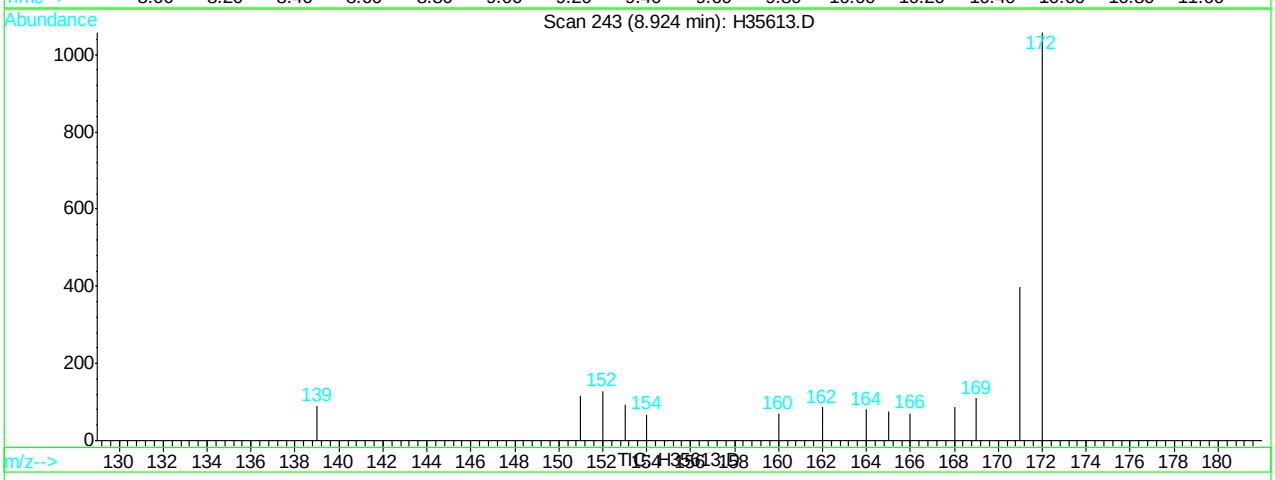
H35613.D H10269SP.M Tue Oct 27 14:48:11 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(10) 2-Fluorobiphenyl (S)

8.92min 0.97ppb m

response 20811

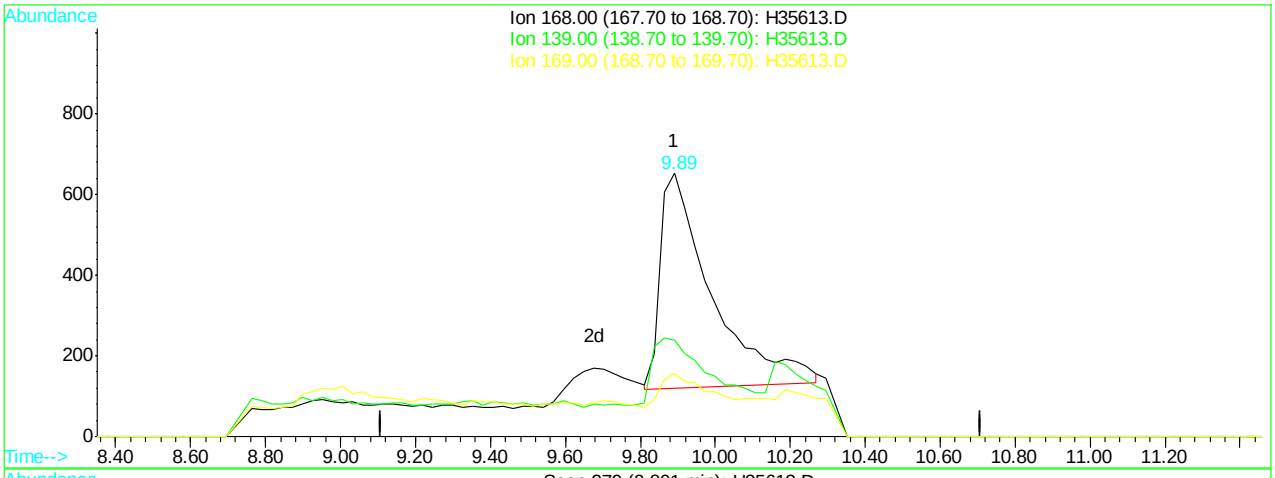
Ion	Exp%	Act%
172.00	100	100
171.00	27.30	37.75#
0.00	0.00	0.00
0.00	0.00	0.00

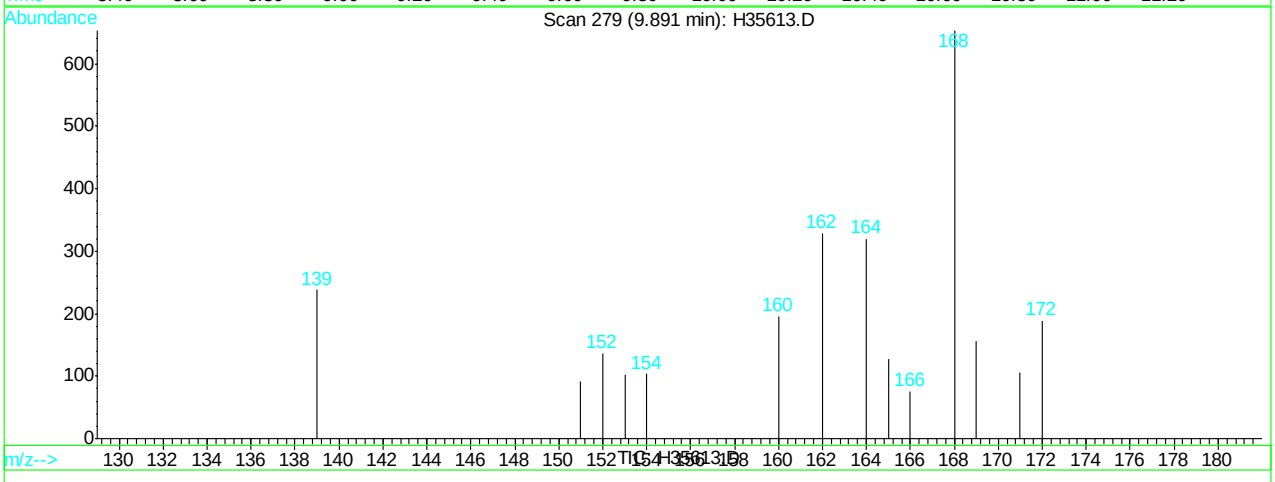
H35613.D H10269SP.M Tue Oct 27 14:48:18 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(13) Dibenzofuran

9.89min 0.25ppb m

response 5074

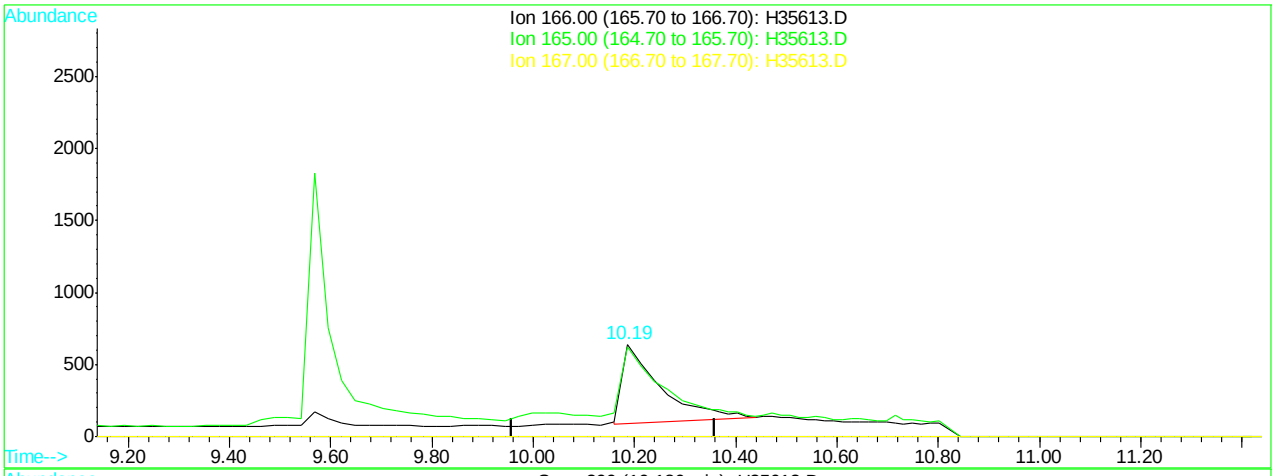
Ion	Exp%	Act%
168.00	100	100
139.00	48.10	42.51
169.00	14.00	16.14
0.00	0.00	0.00

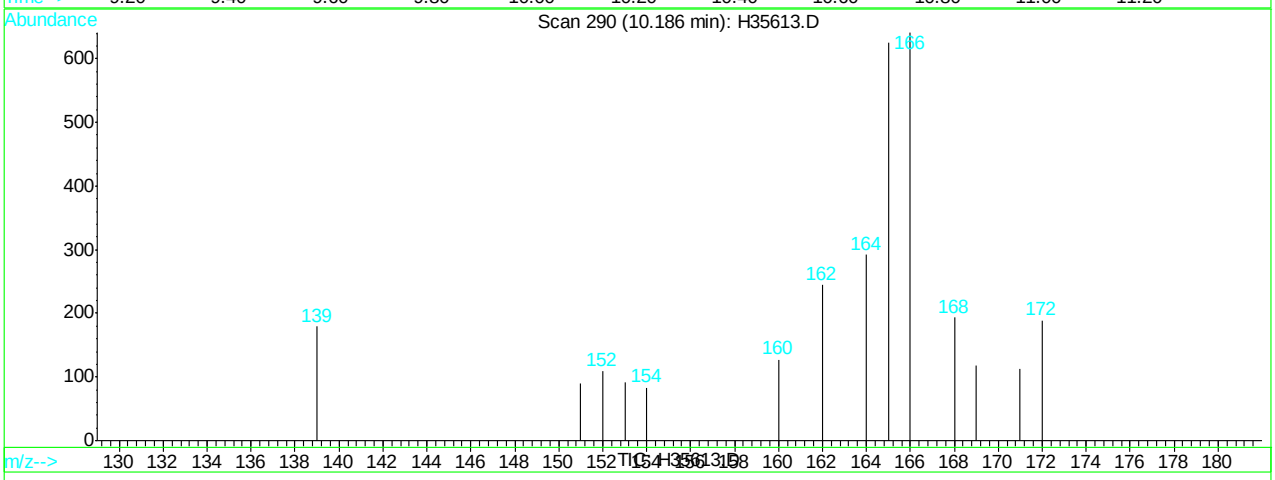
H35613.D H10269SP.M Tue Oct 27 14:48:24 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.19min 0.27ppb m

response 2773

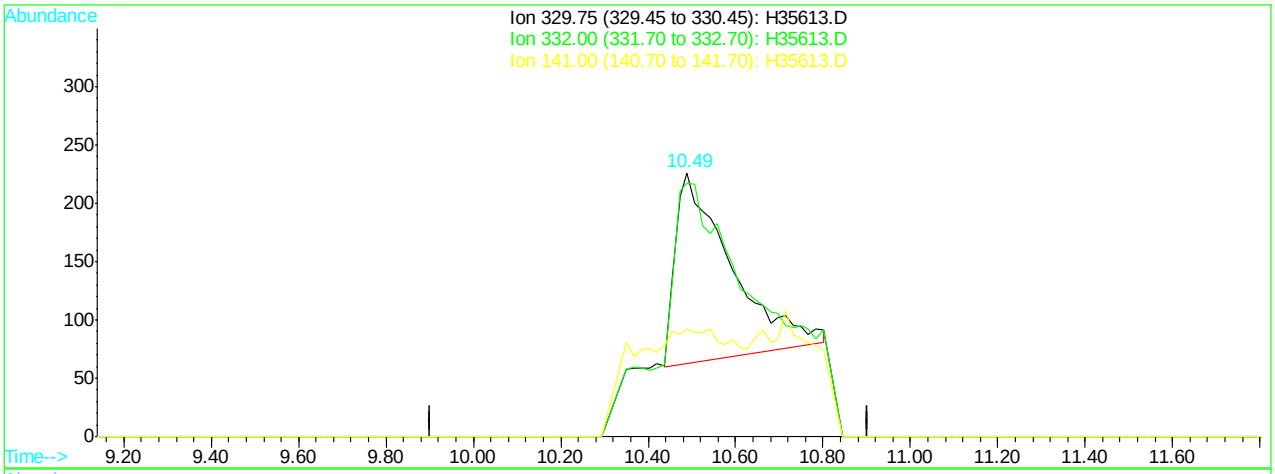
Ion	Exp%	Act%
166.00	100	100
165.00	75.90	97.50
167.00	0.00	0.00
0.00	0.00	0.00

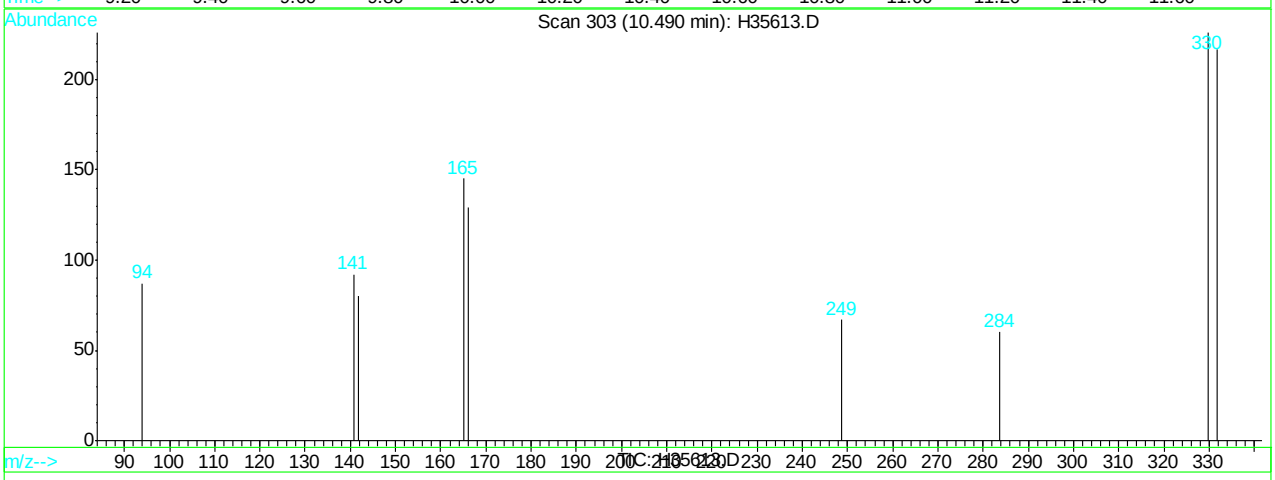
H35613.D H10269SP.M Tue Oct 27 14:48:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.49min 1.12ppb m

response 1452

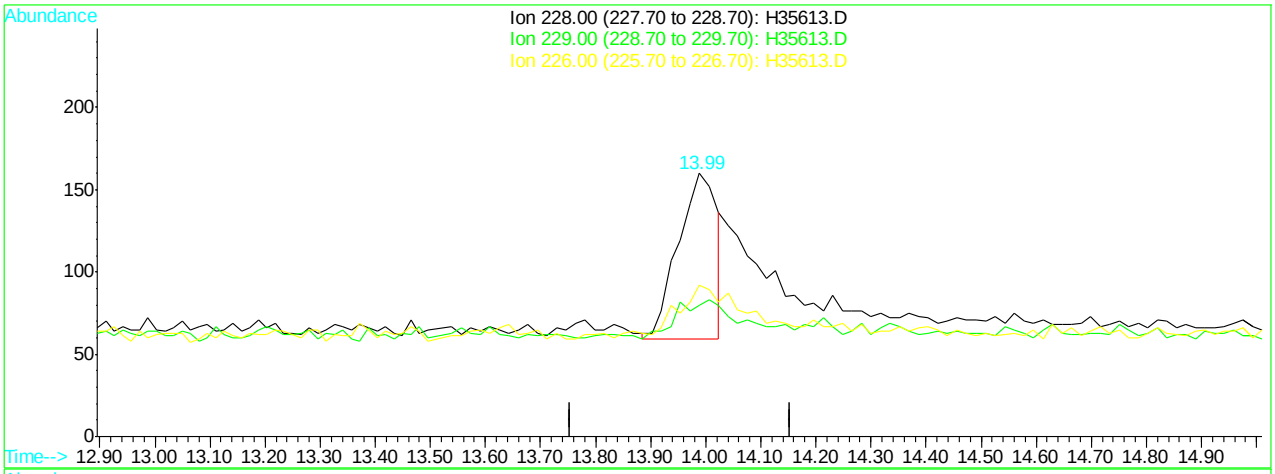
Ion	Exp%	Act%
329.75	100	100
332.00	102.30	226.65#
141.00	16.20	114.81#
0.00	0.00	0.00

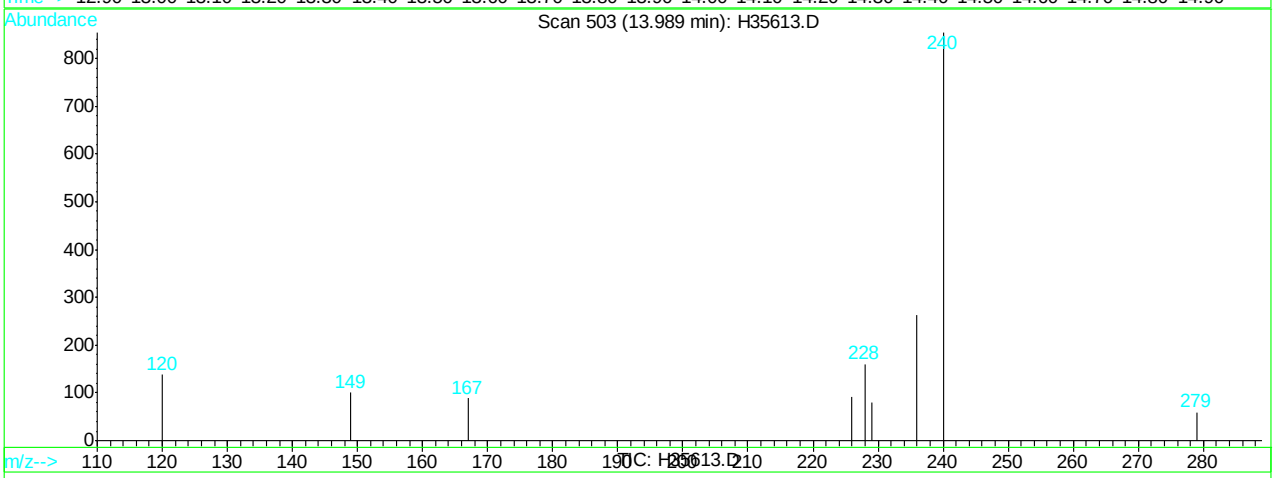
H35613.D H10269SP.M Tue Oct 27 14:48:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.99min 0.32ppb m

response 501

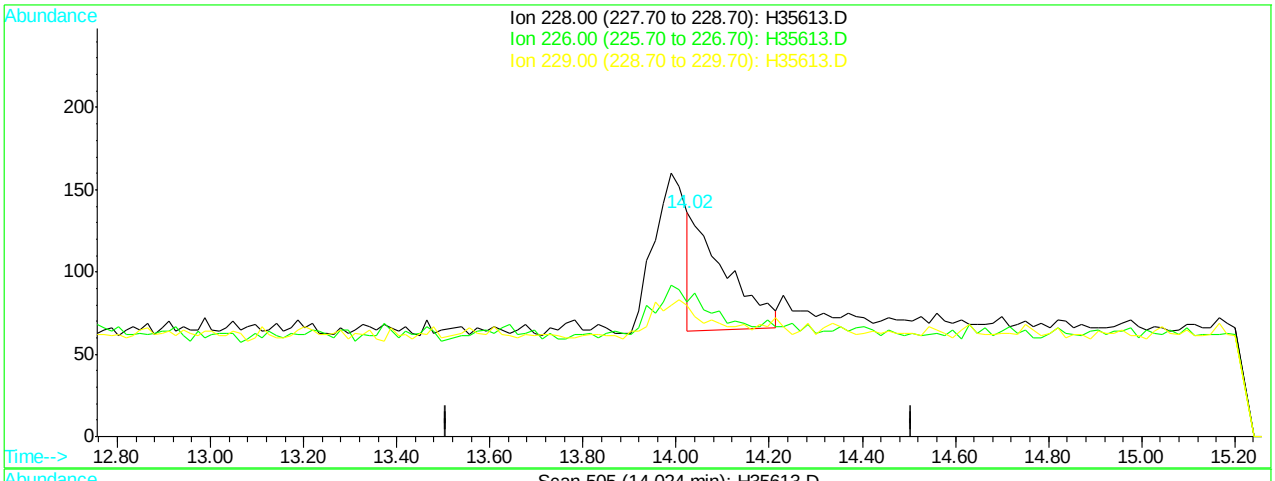
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	50.00#
226.00	30.50	57.50#
0.00	0.00	0.00

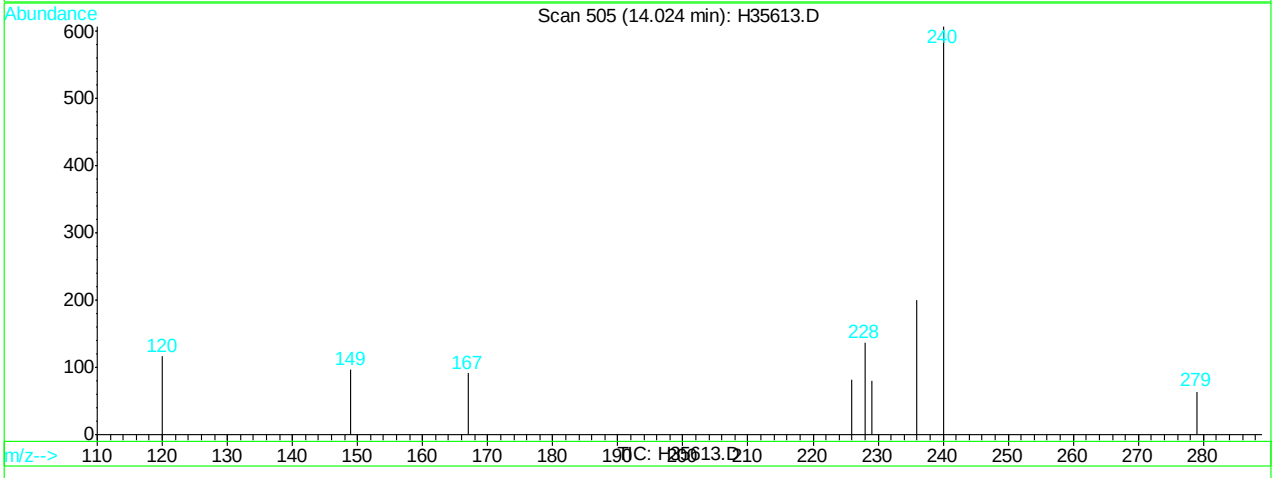
H35613.D H10269SP.M Tue Oct 27 14:48:40 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

14.02min 0.12ppb m

response 369

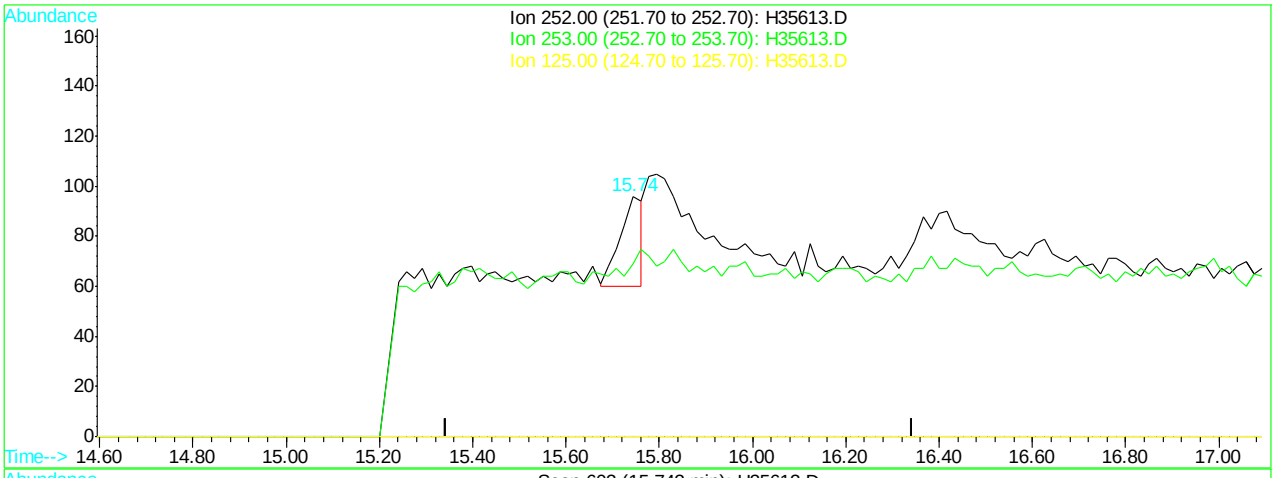
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	60.29#
229.00	21.20	58.82#
0.00	0.00	0.00

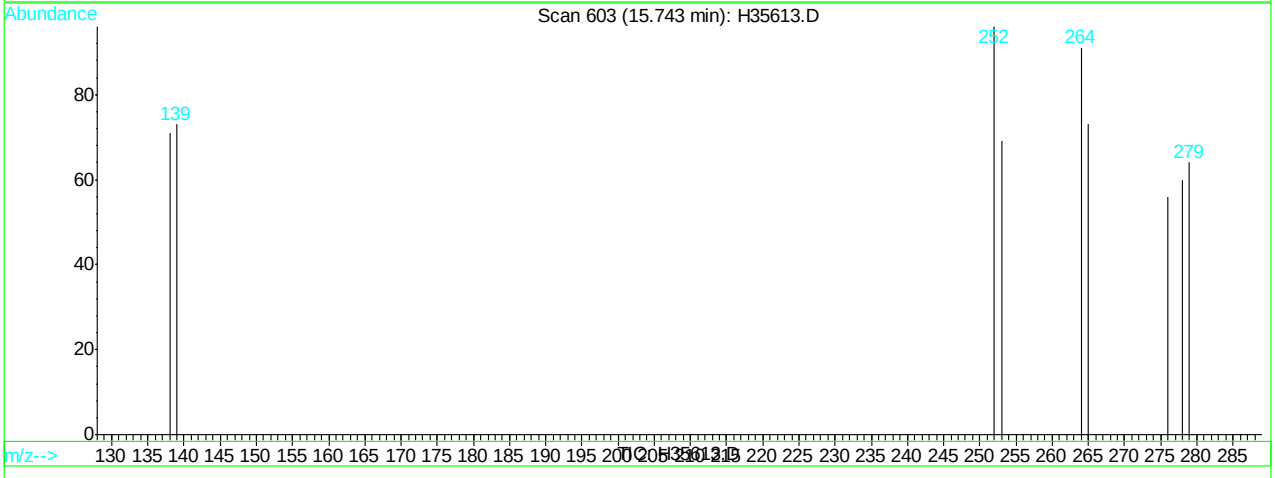
H35613.D H10269SP.M Tue Oct 27 14:48:43 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.74min 0.11ppb m

response 121

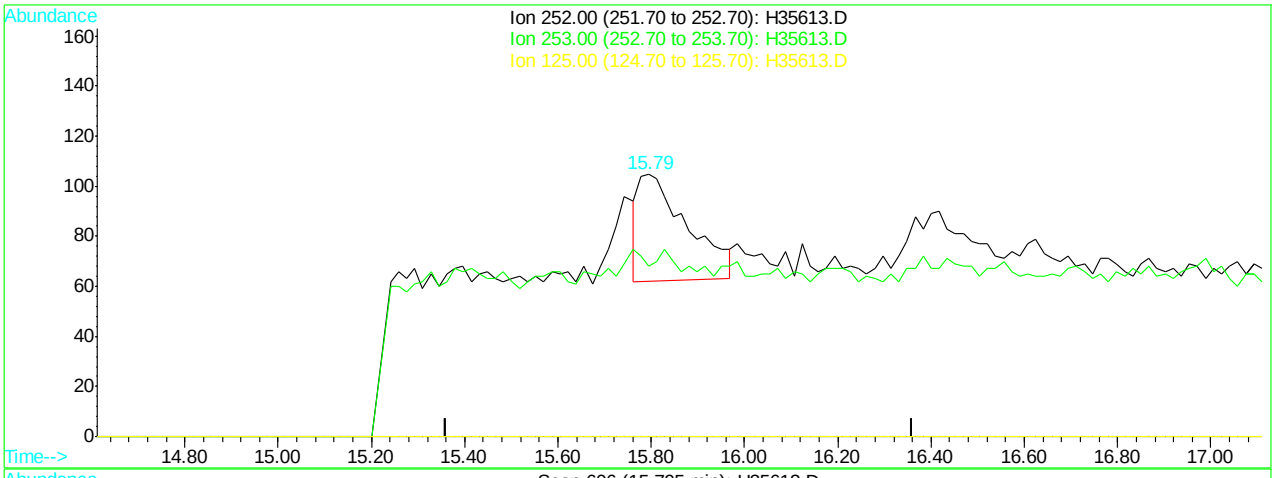
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	71.88
125.00	0.00	0.00
0.00	0.00	0.00

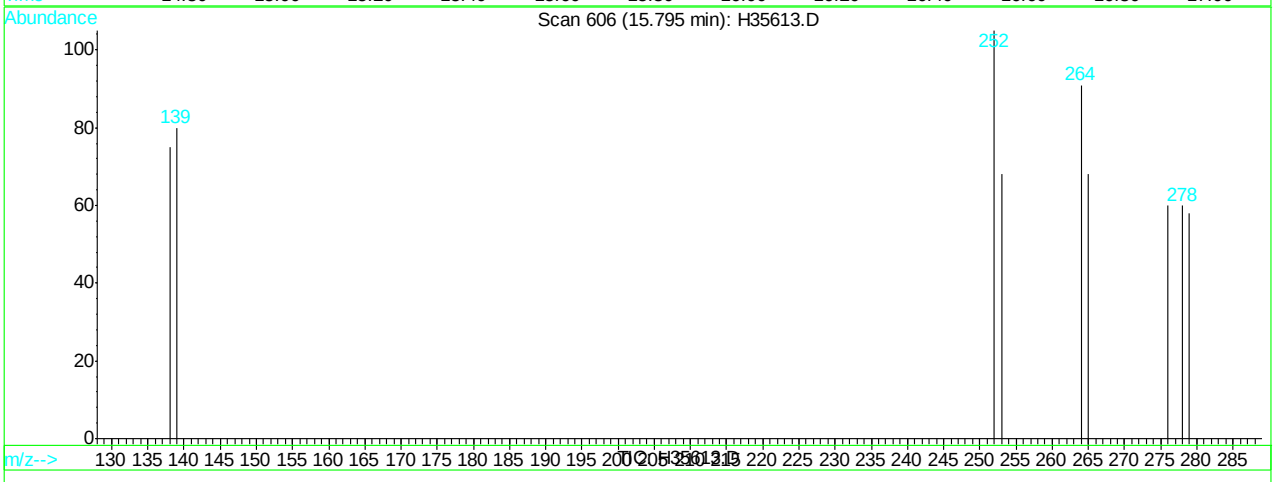
H35613.D H10269SP.M Tue Oct 27 14:48:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35613.D Vial: 5
Acq On : 26 Oct 2009 1:36 pm Operator: sheilac
Sample : ic1921-0.2 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:13 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.79min 0.18ppb m

response 320

Ion	Exp%	Act%
252.00	100	100
253.00	74.20	64.76
125.00	0.00	0.00
0.00	0.00	0.00

H35613.D H10269SP.M Tue Oct 27 14:48:51 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:58:52 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	87013	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	77456	4.00	ppb	-0.06
9) Acenaphthene-d10	9.57	164	59768	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	74212	4.00	ppb	0.00
21) Chrysene-d12	13.94	240	9448	4.00	ppb	-0.04
26) Perylene-d12	16.42	264	3790	4.00	ppb	-0.03

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	74888	29.30	ppb	-0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 586.00%#			
10) 2-Fluorobiphenyl	8.87	172	632678	19.16	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 383.20%#			
16) 2,4,6-Tribromophenol	10.40	330	165675	77.41	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 774.10%#			
23) Terphenyl-d14	12.66	244	80468	34.37	ppb	-0.06
Spiked Amount 5.000	Range 10 - 160		Recovery = 687.40%#			

Target Compounds

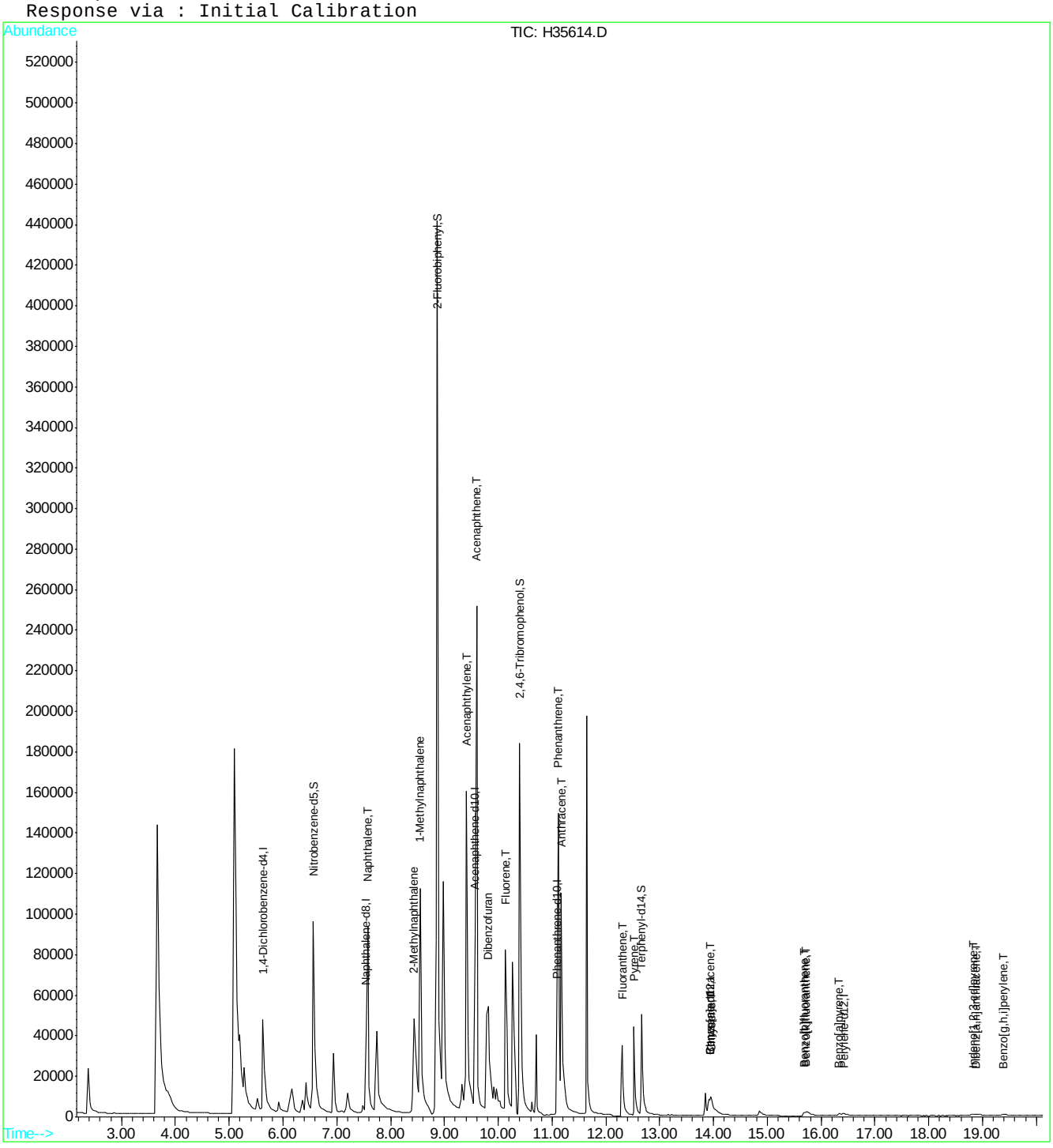
							Qvalue
6) Naphthalene	7.57	128	137590	5.31	ppb		98
7) 2-Methylnaphthalene	8.44	142	100132m	6.23	ppb		
8) 1-Methylnaphthalene	8.55	142	169210	5.87	ppb	#	94
11) Acenaphthylene	9.41	152	217651	5.89	ppb		100
12) Acenaphthene	9.60	153	166257	4.99	ppb		99
13) Dibenzofuran	9.81	168	119999	3.87	ppb		100
14) Fluorene	10.13	166	74851	4.73	ppb	#	2
18) Phenanthrene	11.11	178	160251	4.94	ppb		96
19) Anthracene	11.17	178	192895	5.13	ppb		98
20) Fluoranthene	12.31	202	79789	5.29	ppb	#	90
22) Pyrene	12.52	202	86947	5.60	ppb		99
24) Benzo[a]anthracene	13.94	228	10282m	4.75	ppb		
25) Chrysene	13.95	228	25463m	6.01	ppb		
27) Benzo[b]fluoranthene	15.69	252	3018m	2.93	ppb		
28) Benzo[k]fluoranthene	15.73	252	11254m	6.47	ppb		
29) Benzo[a]pyrene	16.33	252	6228	5.41	ppb	#	31
30) Indeno[1,2,3-cd]pyrene	18.82	276	5300	7.92	ppb	#	20
31) Dibenz[a,h]anthracene	18.87	278	3820	7.94	ppb	#	14
32) Benzo[g,h,i]perylene	19.39	276	4270	6.40	ppb	#	14

(#) = qualifier out of range (m) = manual integration
H35614.D H10269SP.M Tue Oct 27 14:49:01 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: H10269SP.RES

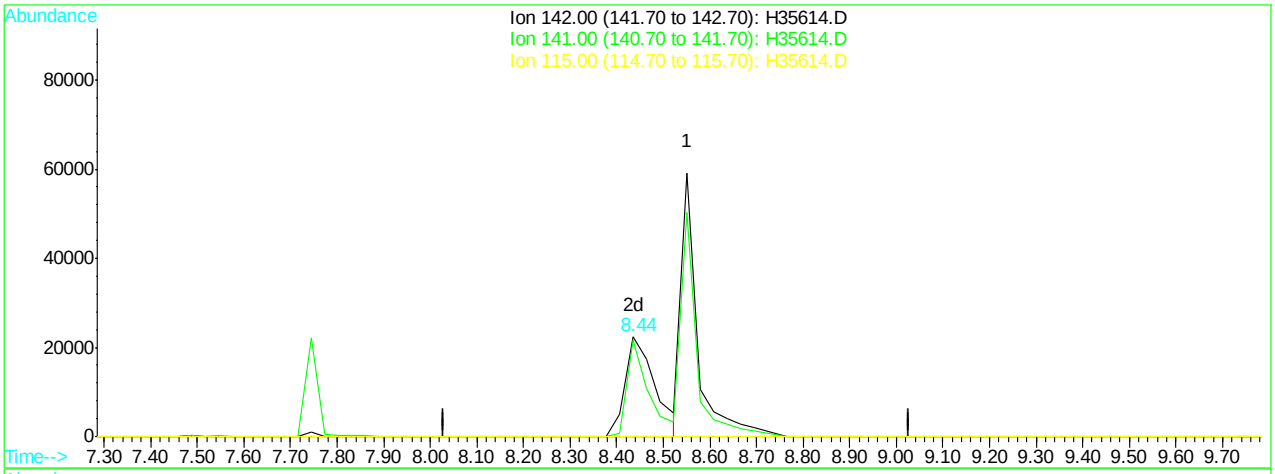
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

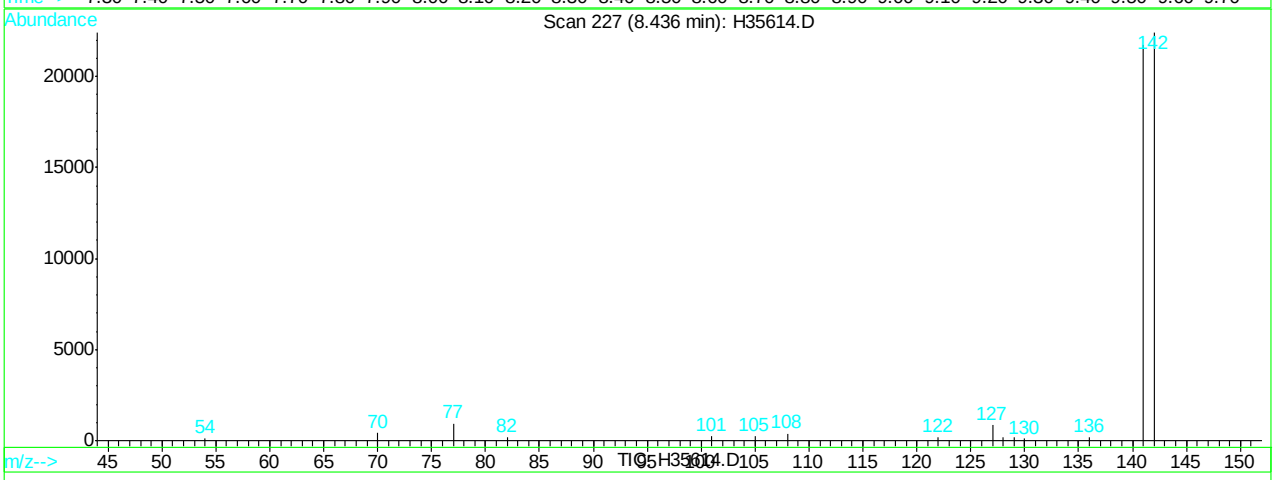


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.44min 6.23ppb m

response 100132

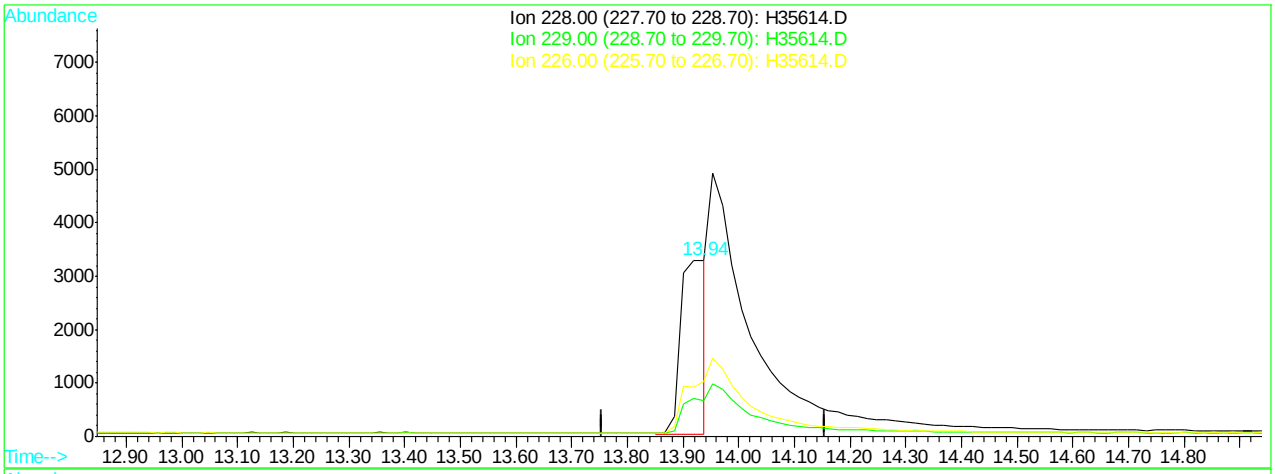
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	136.90
115.00	0.00	0.00
0.00	0.00	0.00

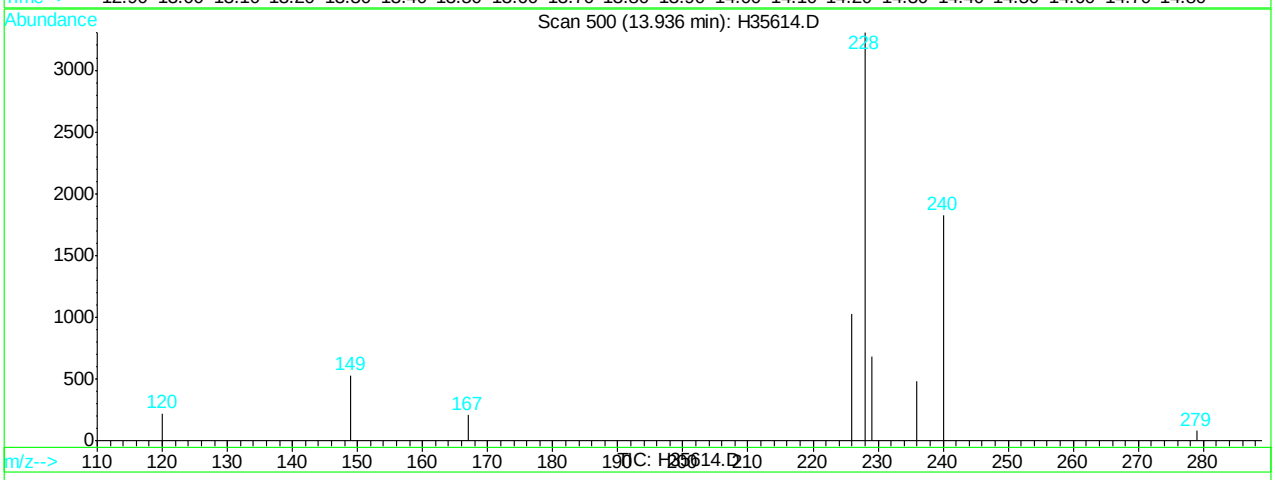
H35614.D H10269SP.M Tue Oct 27 14:49:23 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.94min 4.75ppb m

response 10282

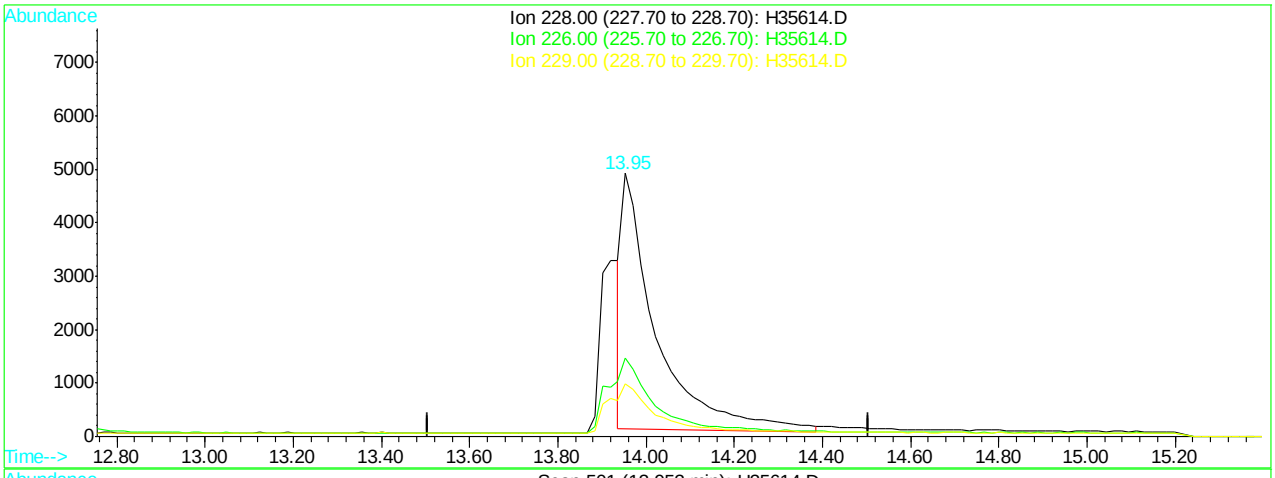
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	20.55
226.00	30.50	31.05
0.00	0.00	0.00

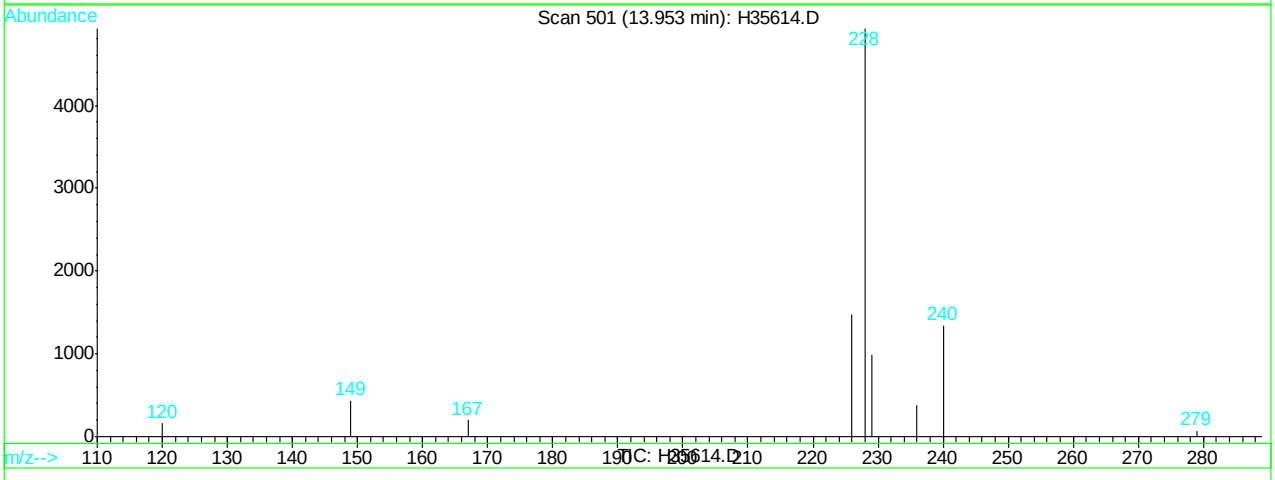
H35614.D H10269SP.M Tue Oct 27 14:49:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 6.01ppb m

response 25463

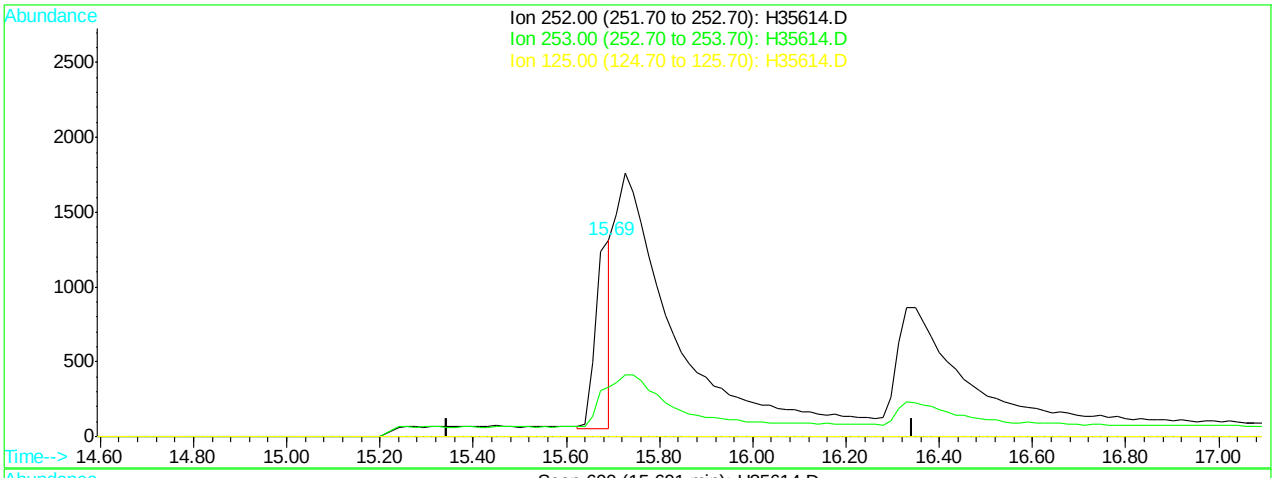
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	29.89
229.00	21.20	19.95
0.00	0.00	0.00

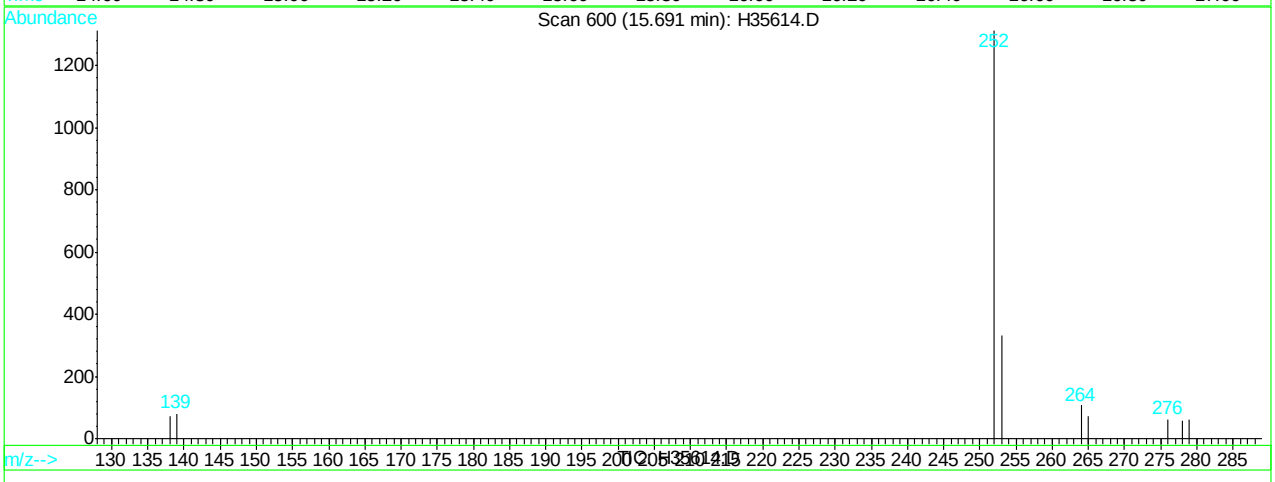
H35614.D H10269SP.M Tue Oct 27 14:49:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.69min 2.93ppb m

response 3018

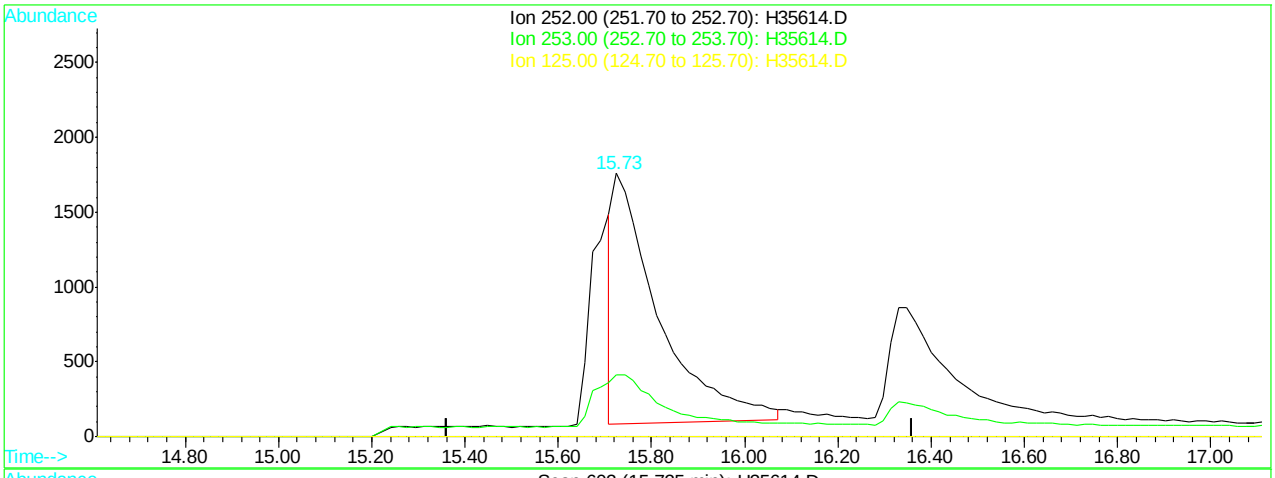
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	25.30#
125.00	0.00	0.00
0.00	0.00	0.00

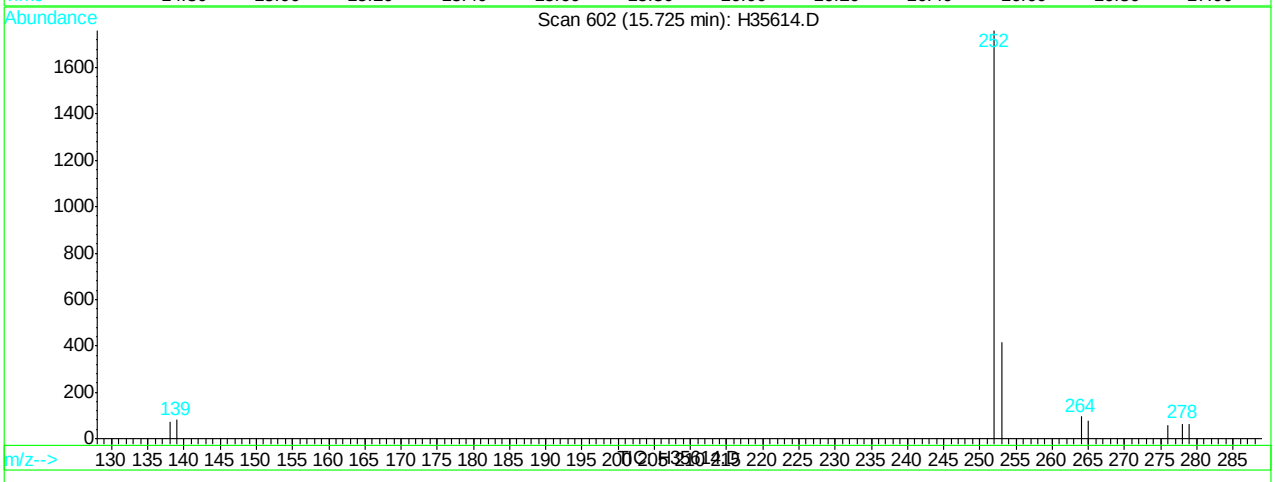
H35614.D H10269SP.M Tue Oct 27 14:49:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35614.D Vial: 6
Acq On : 26 Oct 2009 2:02 pm Operator: sheilac
Sample : ic1921-5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:14 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 6.47ppb m

response 11254

Ion	Exp%	Act%
252.00	100	100
253.00	74.20	23.64#
125.00	0.00	0.00
0.00	0.00	0.00

H35614.D H10269SP.M Tue Oct 27 14:49:39 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 15:58:52 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	95392	4.00 ppb	0.00
4) Naphthalene-d8	7.54	136	89207	4.00 ppb	-0.06
9) Acenaphthene-d10	9.57	164	75940	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	99994	4.00 ppb	0.00
21) Chrysene-d12	13.90	240	14221	4.00 ppb	-0.07
26) Perylene-d12	16.40	264	5433	4.00 ppb	-0.05

System Monitoring Compounds					
5) Nitrobenzene-d5	6.57	82	233839	79.43 ppb	-0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	= 1588.60%#	
10) 2-Fluorobiphenyl	8.87	172	2645305	63.05 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1261.00%#	
16) 2,4,6-Tribromophenol	10.40	330	411995	142.87 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 1428.70%#	
23) Terphenyl-d14	12.66	244	279519	79.32 ppb	-0.06
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1586.40%#	

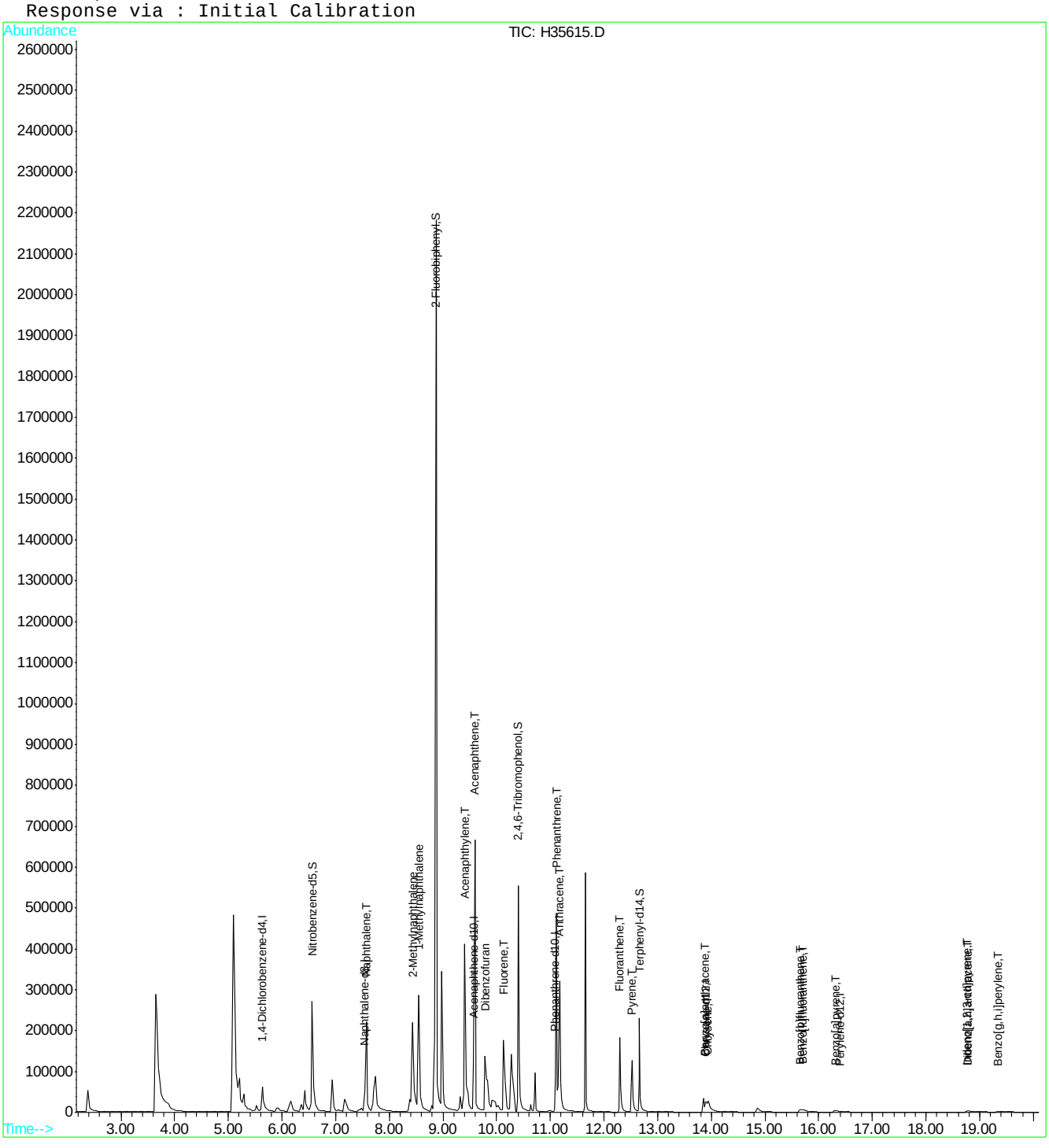
Target Compounds						Qvalue
6) Naphthalene	7.57	128	299017	10.01 ppb		93
7) 2-Methylnaphthalene	8.44	142	280455m	15.15 ppb		
8) 1-Methylnaphthalene	8.55	142	390725	11.77 ppb	#	94
11) Acenaphthylene	9.41	152	521846	11.12 ppb		100
12) Acenaphthene	9.60	153	435486	10.28 ppb		89
13) Dibenzofuran	9.78	168	226232	5.75 ppb		96
14) Fluorene	10.13	166	140208	6.98 ppb	#	2
18) Phenanthrene	11.11	178	484185	11.09 ppb		95
19) Anthracene	11.17	178	392125	7.74 ppb		91
20) Fluoranthene	12.29	202	264249	13.00 ppb	#	91
22) Pyrene	12.53	202	246296m	10.54 ppb		
24) Benzo[a]anthracene	13.89	228	37708m	11.56 ppb		
25) Chrysene	13.94	228	75083m	11.77 ppb		
27) Benzo[b]fluoranthene	15.66	252	12240m	8.28 ppb		
28) Benzo[k]fluoranthene	15.71	252	39440m	15.81 ppb		
29) Benzo[a]pyrene	16.31	252	20395	12.35 ppb	#	32
30) Indeno[1,2,3-cd]pyrene	18.77	276	17379	18.12 ppb	#	23
31) Dibenz[a,h]anthracene	18.79	278	12790	18.53 ppb	#	16
32) Benzo[g,h,i]perylene	19.34	276	13023	13.62 ppb	#	17

(#) = qualifier out of range (m) = manual integration
H35615.D H10269SP.M Tue Oct 27 14:49:47 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: H10269SP.RES

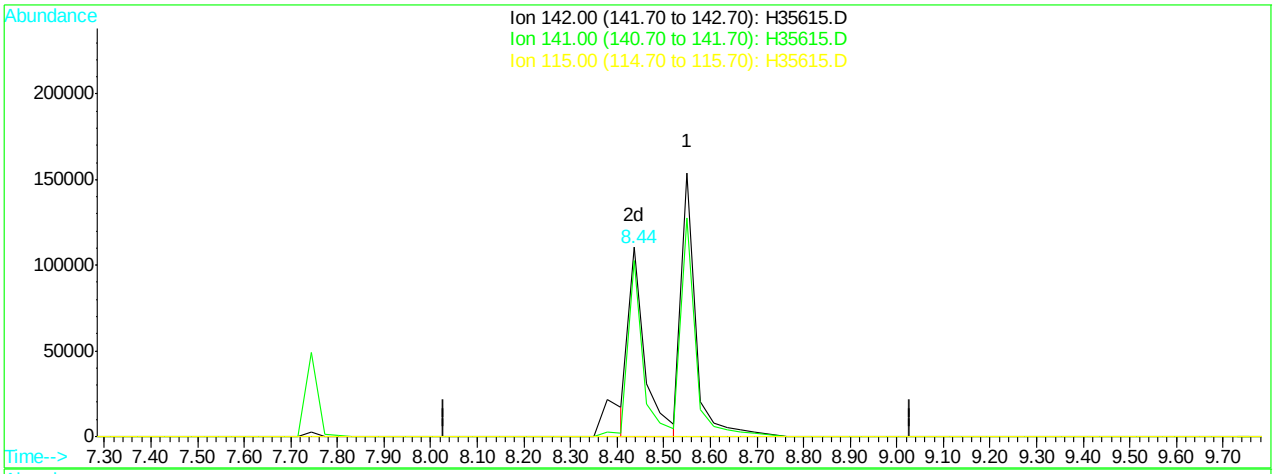
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

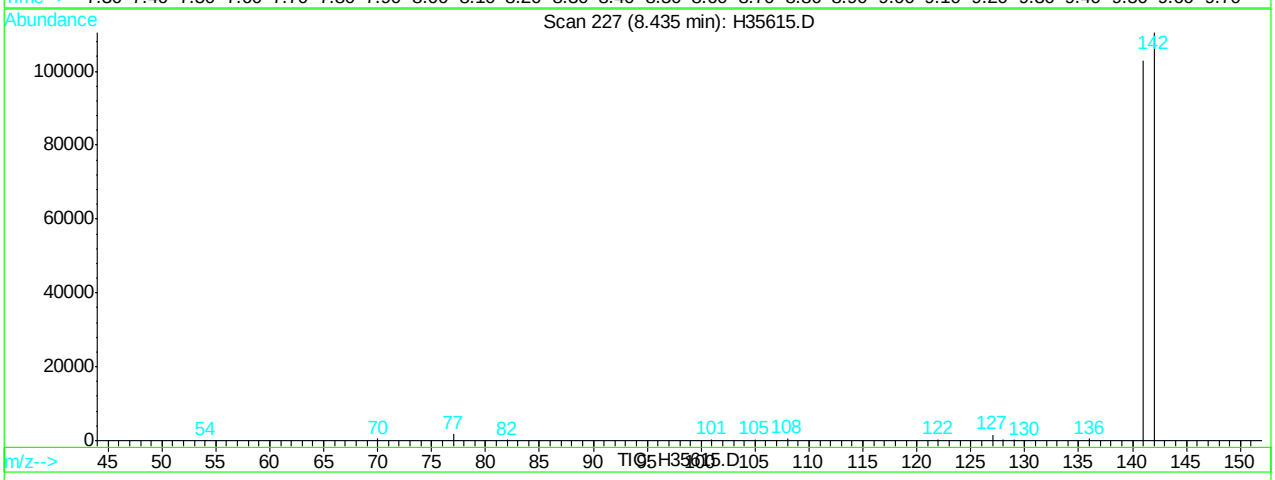


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.44min 15.15ppb m

response 280455

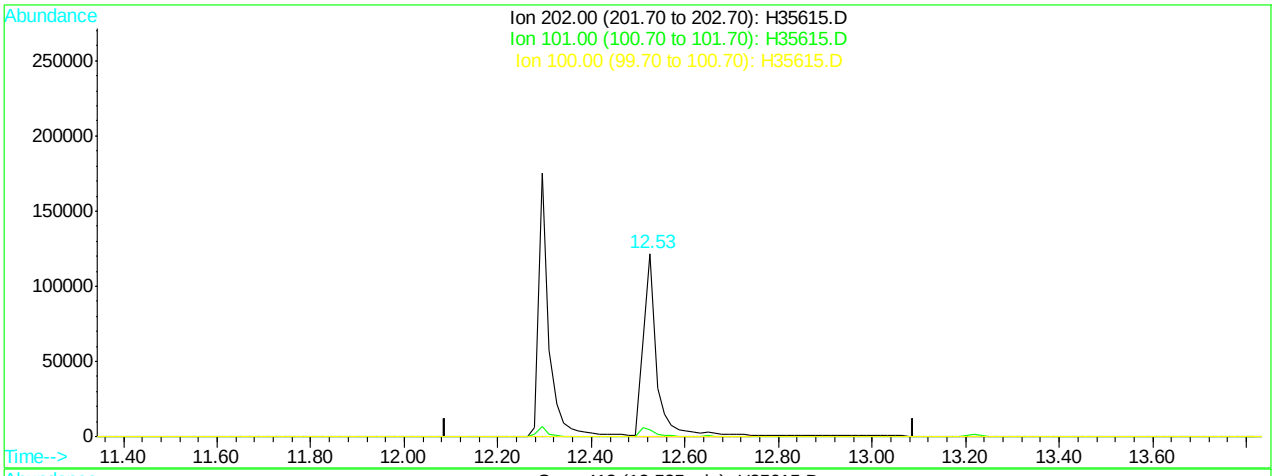
Ion	Exp%	Act%
142.00	100	100
141.00	148.50	112.48
115.00	0.00	0.00
0.00	0.00	0.00

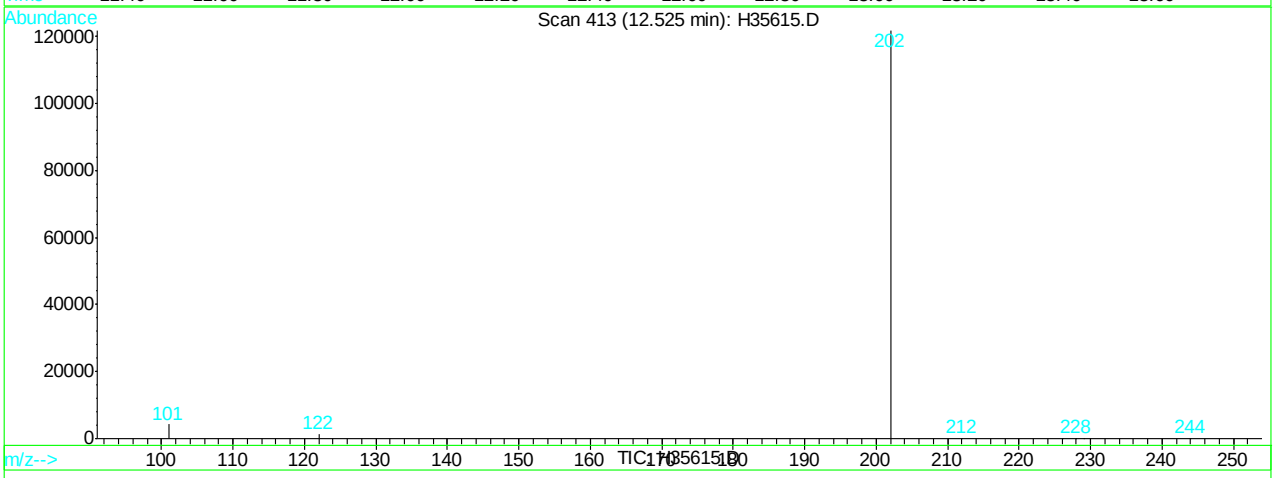
H35615.D H10269SP.M Tue Oct 27 14:50:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.53min 10.54ppb m

response 246296

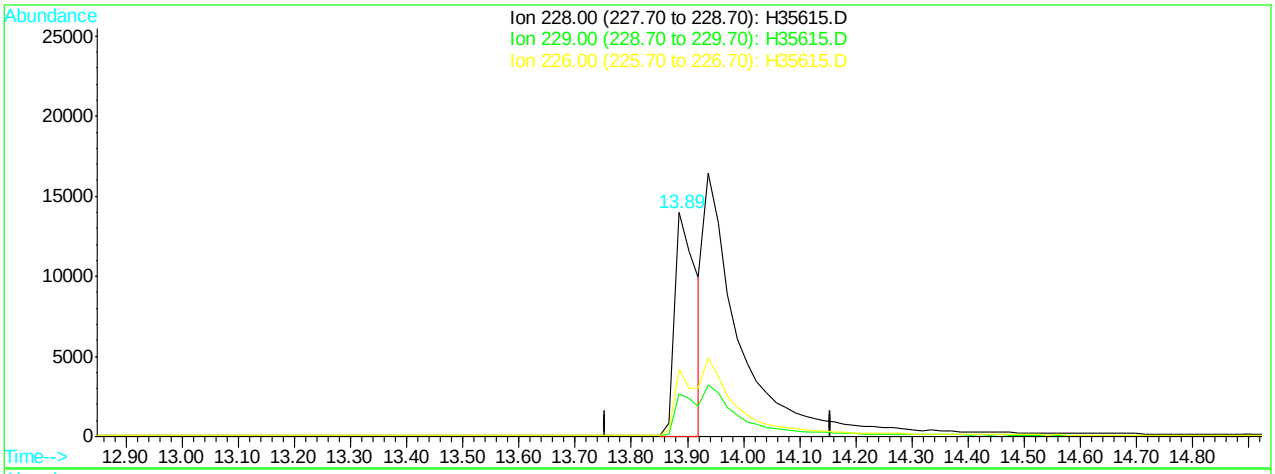
Ion	Exp%	Act%
202.00	100	100
101.00	5.00	3.49#
100.00	0.00	0.00
0.00	0.00	0.00

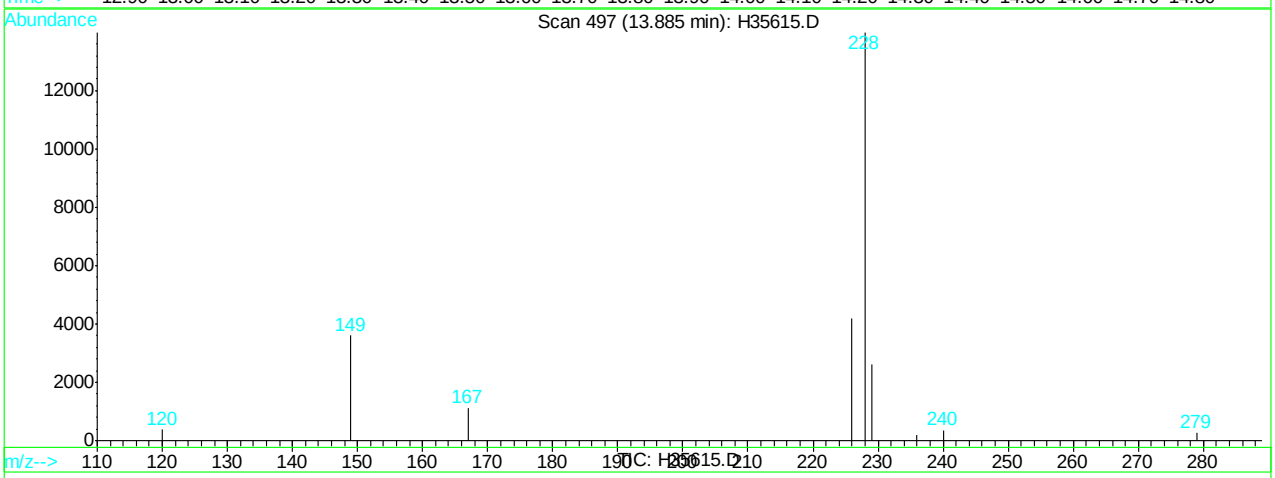
H35615.D H10269SP.M Tue Oct 27 14:50:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.89min 11.56ppb m

response 37708

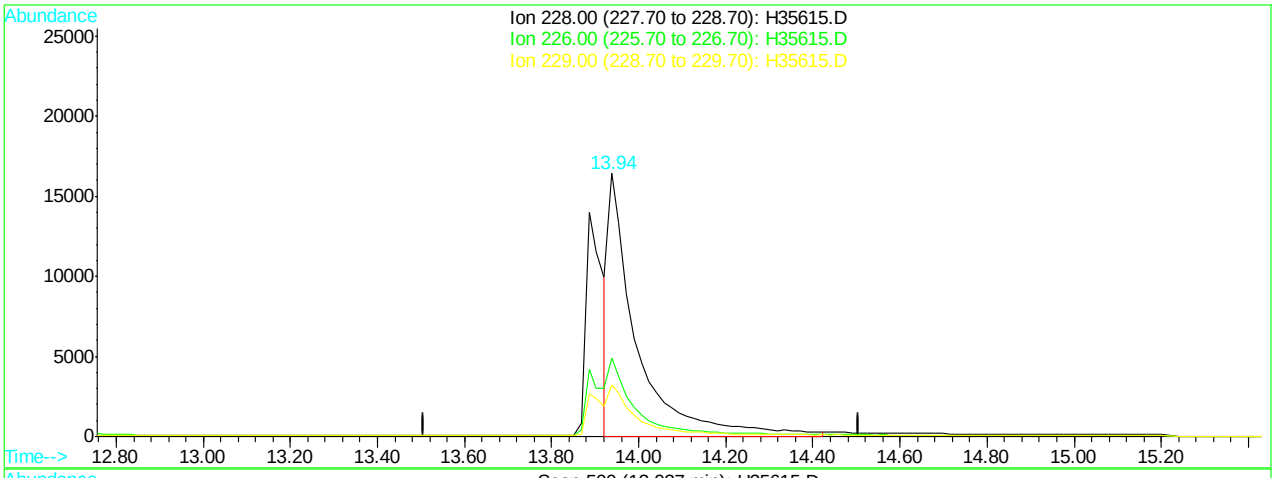
Ion	Exp%	Act%
228.00	100	100
229.00	20.50	18.83
226.00	30.50	30.04
0.00	0.00	0.00

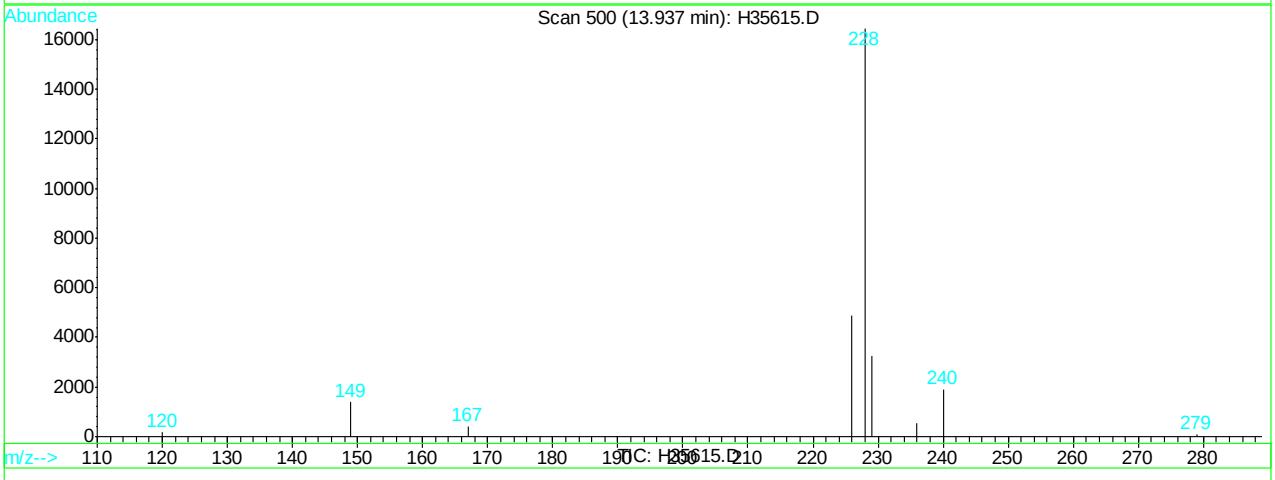
H35615.D H10269SP.M Tue Oct 27 14:50:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 11.77ppb m

response 75083

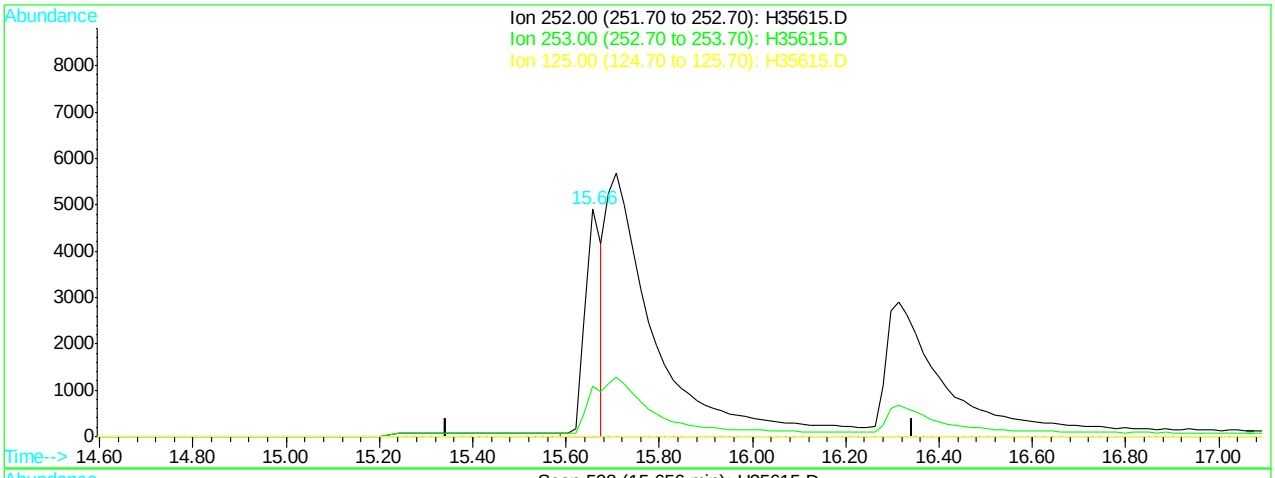
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	29.75
229.00	21.20	19.68
0.00	0.00	0.00

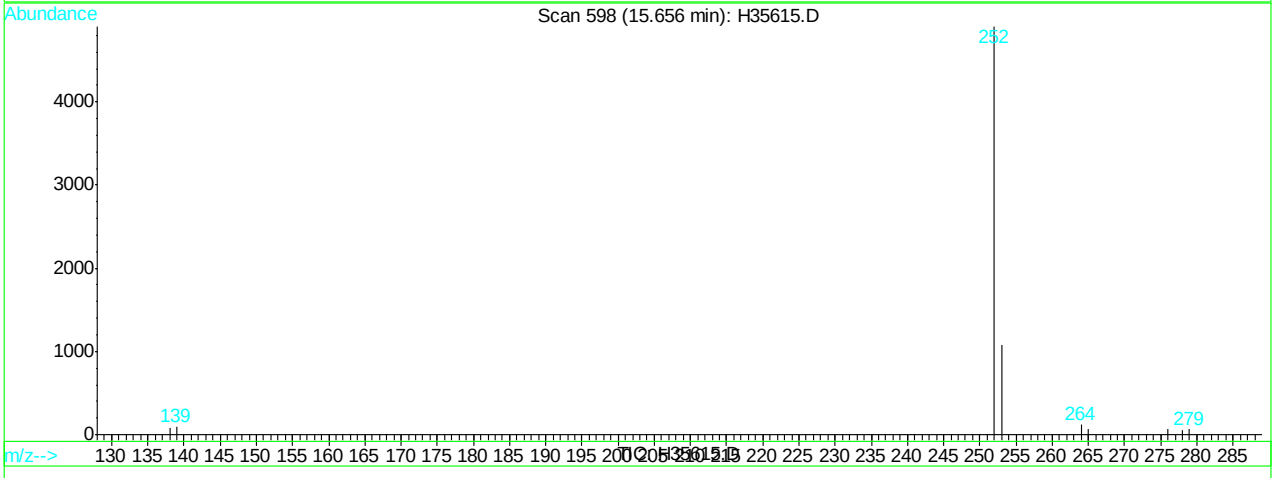
H35615.D H10269SP.M Tue Oct 27 14:50:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 8.28ppb m

response 12240

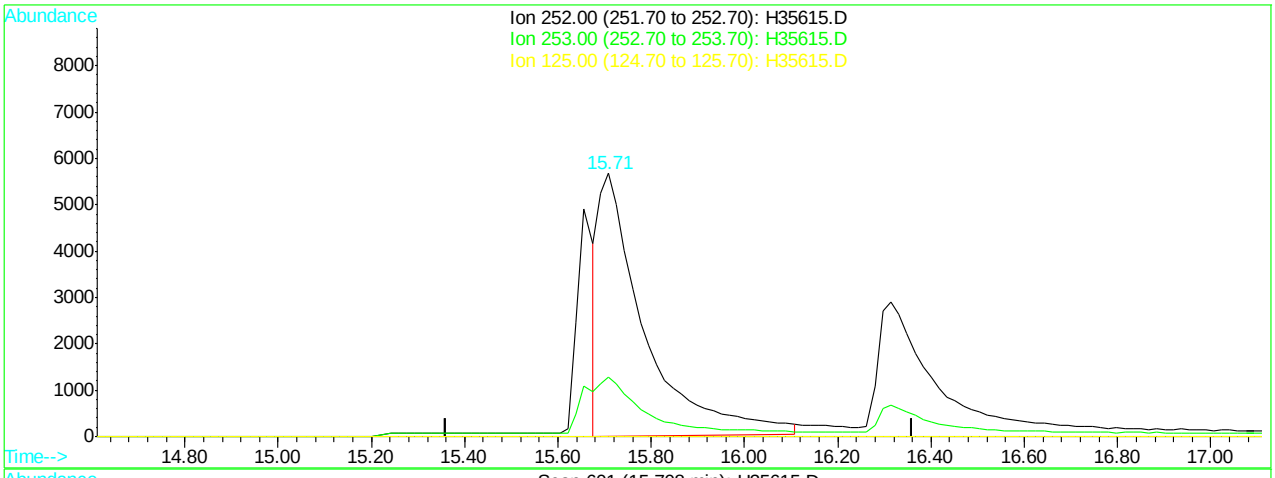
Ion	Exp%	Act%
252.00	100	100
253.00	83.70	21.97#
125.00	0.00	0.00
0.00	0.00	0.00

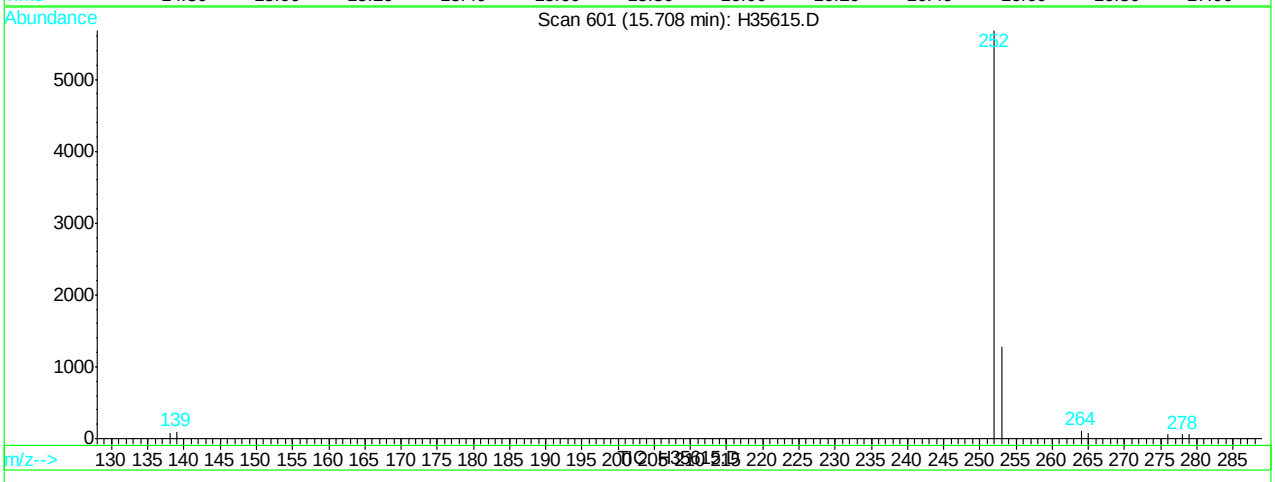
H35615.D H10269SP.M Tue Oct 27 14:50:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35615.D Vial: 7
Acq On : 26 Oct 2009 2:31 pm Operator: sheilac
Sample : ic1921-10 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:03 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 15.81ppb m

response 39440

Ion	Exp%	Act%
252.00	100	100
253.00	74.20	22.56#
125.00	0.00	0.00
0.00	0.00	0.00

H35615.D H10269SP.M Tue Oct 27 14:50:40 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:17

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: H10269SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Mon Oct 26 16:26:56 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	120752	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	115423	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	81227	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	76874	4.00	ppb	0.00
21) Chrysene-d12	13.94	240	9301	4.00	ppb	0.00
26) Perylene-d12	16.44	264	4684	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 5.000	Range 17 - 131		Recovery = 0.00%#			
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery = 0.00%#			
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb	
Spiked Amount 10.000	Range 10 - 123		Recovery = 0.00%#			
23) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 5.000	Range 10 - 160		Recovery = 0.00%#			

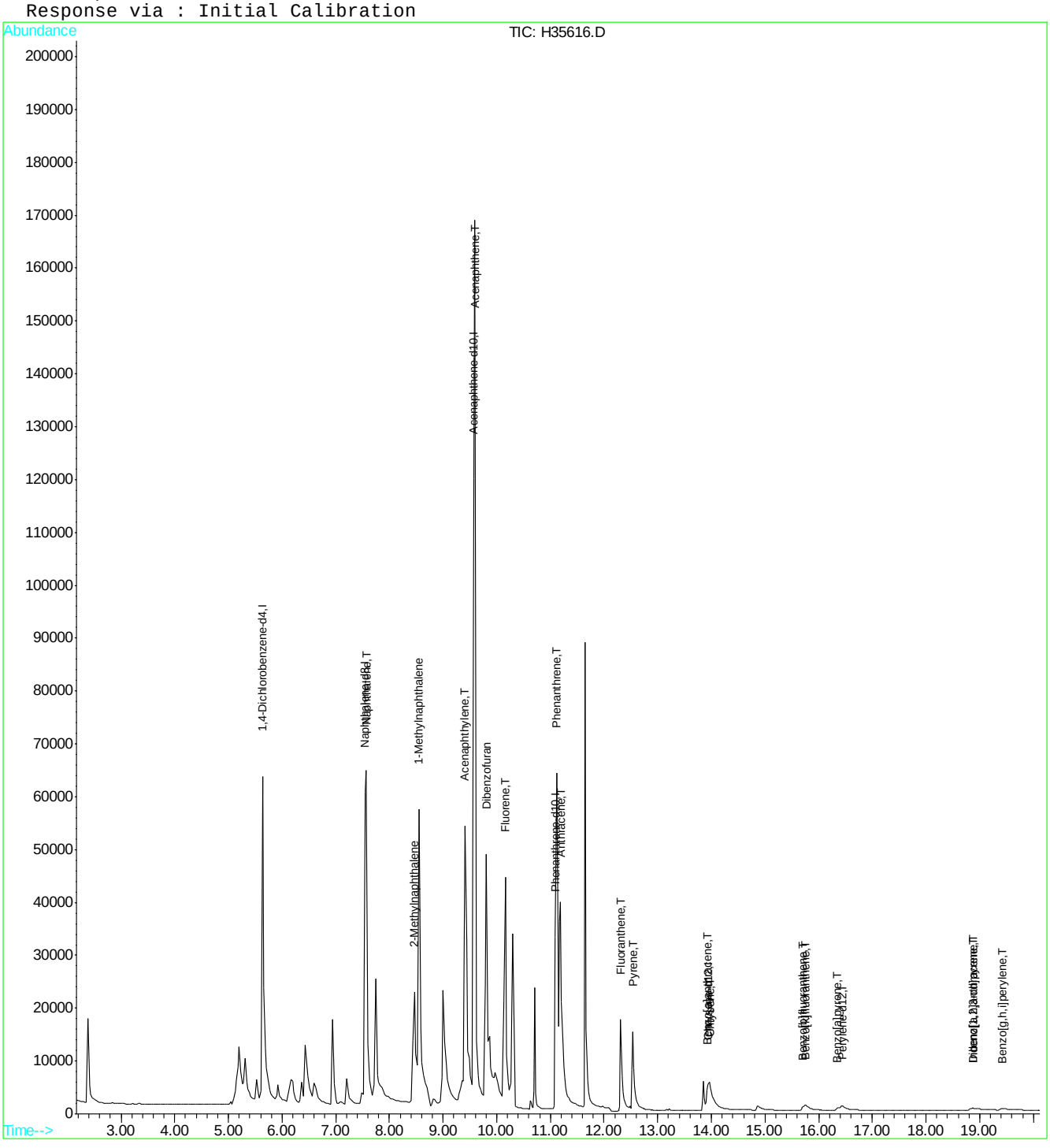
Target Compounds							Qvalue
6) Naphthalene	7.57	128	90100	2.09	ppb		99
7) 2-Methylnaphthalene	8.47	142	47648m	2.04	ppb		
8) 1-Methylnaphthalene	8.55	142	93417m	2.02	ppb		
11) Acenaphthylene	9.41	152	95295	1.92	ppb		98
12) Acenaphthene	9.59	153	112442	2.52	ppb		94
13) Dibenzofuran	9.81	168	84181	2.17	ppb		99
14) Fluorene	10.16	166	51544m	2.02	ppb		
18) Phenanthrene	11.11	178	75259	2.43	ppb		97
19) Anthracene	11.19	178	104727	2.66	ppb		99
20) Fluoranthene	12.31	202	42034	2.78	ppb		100
22) Pyrene	12.54	202	36553	2.31	ppb	#	91
24) Benzo[a]anthracene	13.92	228	3622m	1.99	ppb		
25) Chrysene	13.97	228	14195m	2.83	ppb		
27) Benzo[b]fluoranthene	15.71	252	1535m	2.35	ppb		
28) Benzo[k]fluoranthene	15.76	252	7176m	2.73	ppb		
29) Benzo[a]pyrene	16.35	252	3357	2.31	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.87	276	2947	2.47	ppb		95
31) Dibenz[a,h]anthracene	18.87	278	2122	2.48	ppb	#	95
32) Benzo[g,h,i]perylene	19.43	276	2589	2.58	ppb		91

(#) = qualifier out of range (m) = manual integration
H35616.D H10269SP.M Tue Oct 27 14:50:49 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: H10269SP.RES

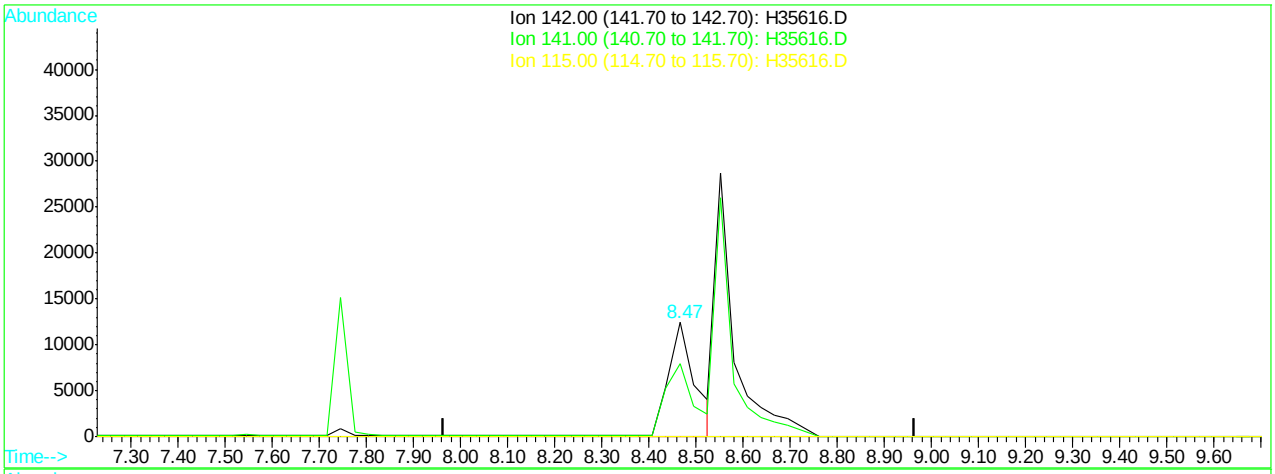
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

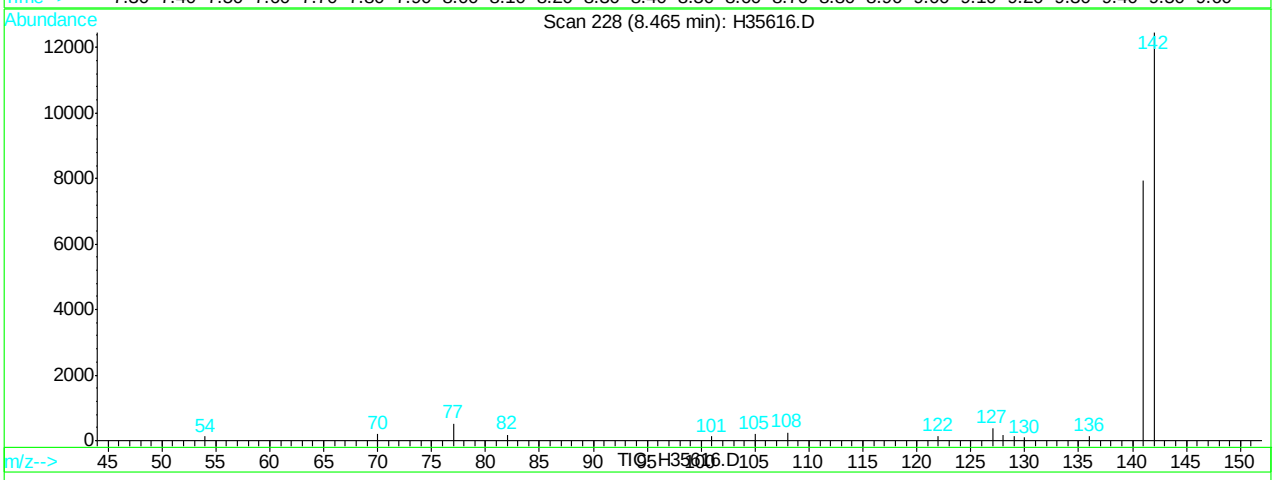


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 2.04ppb m

response 47648

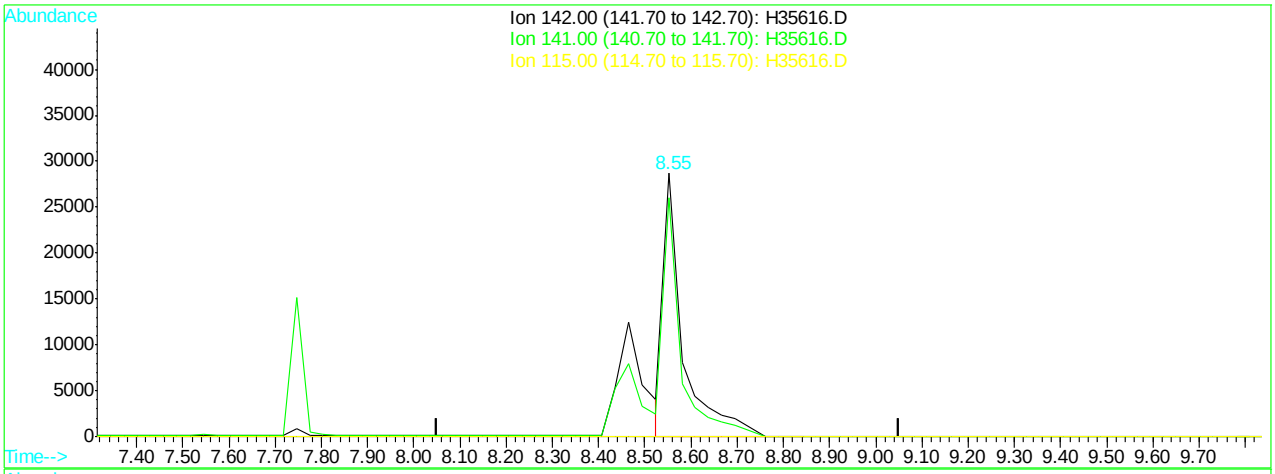
Ion	Exp%	Act%
142.00	100	100
141.00	241.00	232.43
115.00	0.00	0.00
0.00	0.00	0.00

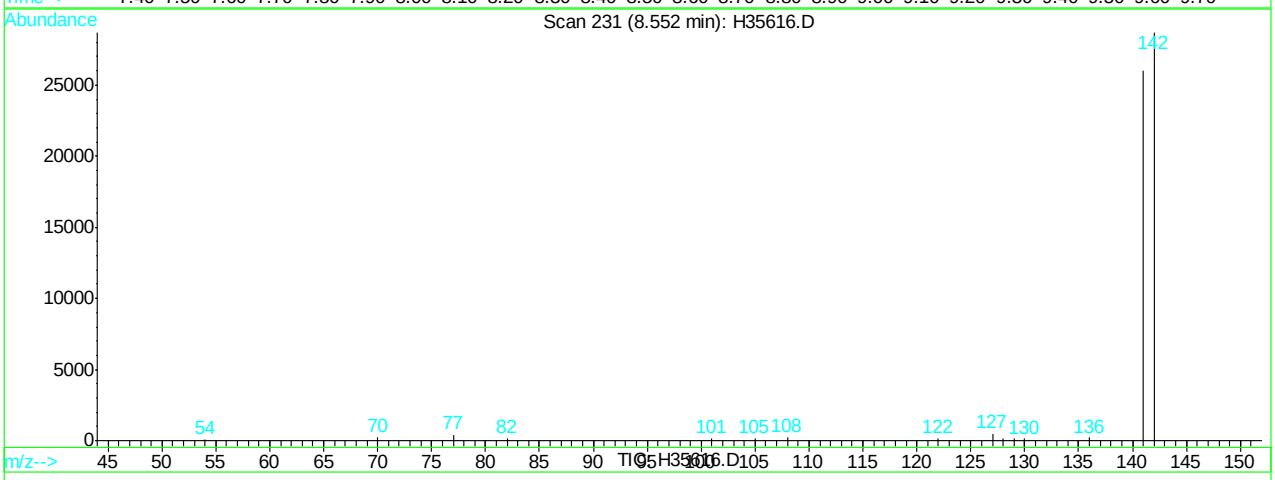
H35616.D H10269SP.M Tue Oct 27 14:51:19 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.55min 2.02ppb m

response 93417

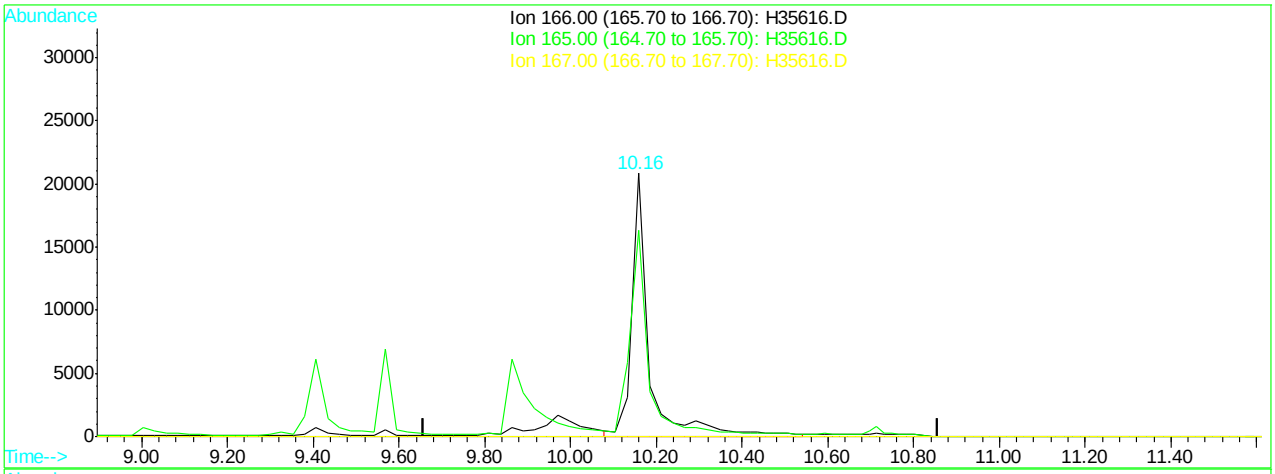
Ion	Exp%	Act%
142.00	100	100
141.00	121.80	118.55
115.00	0.00	0.00
0.00	0.00	0.00

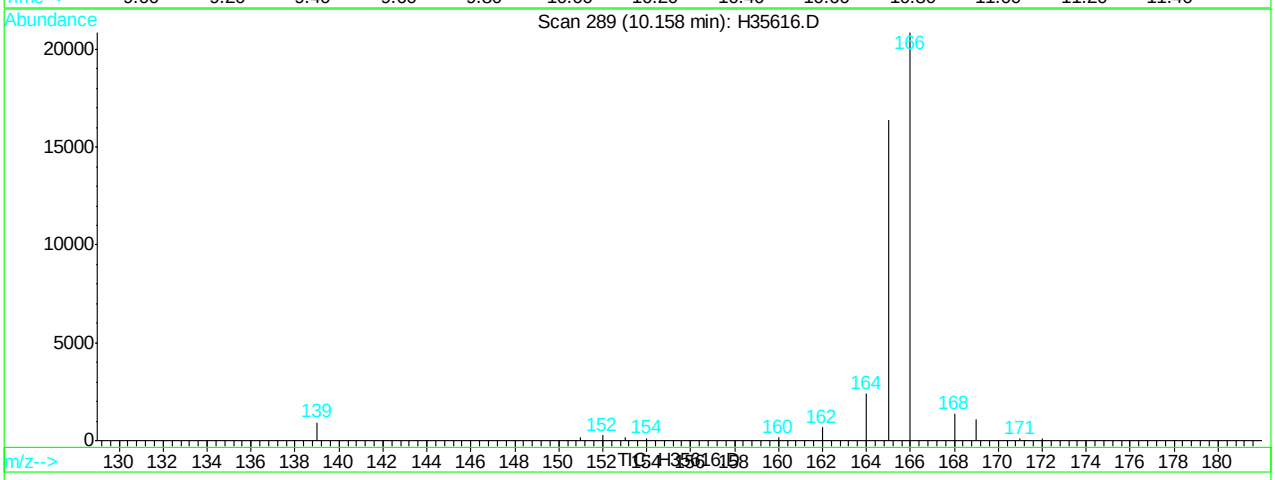
H35616.D H10269SP.M Tue Oct 27 14:51:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.16min 2.02ppb m

response 51544

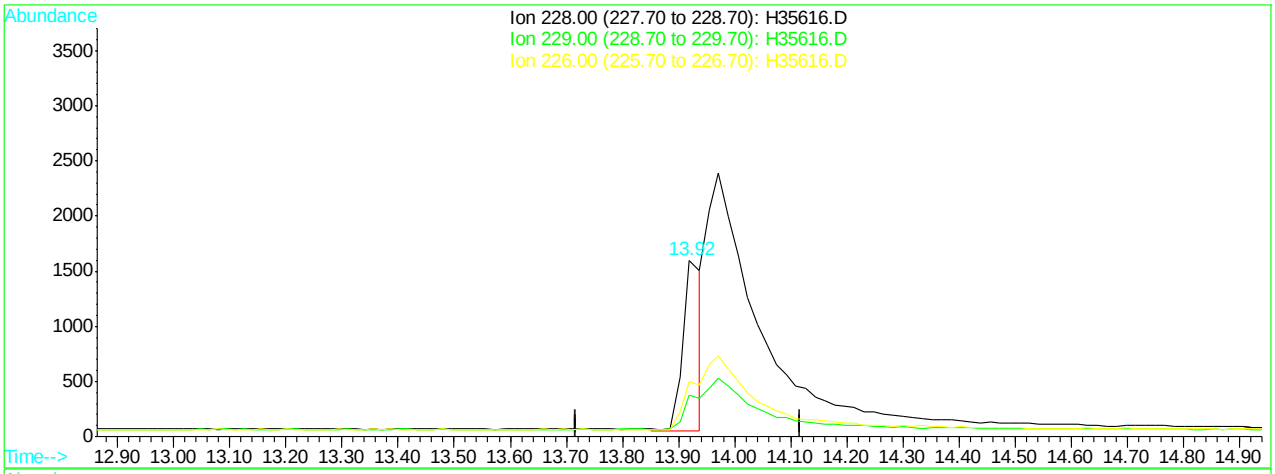
Ion	Exp%	Act%
166.00	100	100
165.00	78.10	78.51
167.00	0.00	0.00
0.00	0.00	0.00

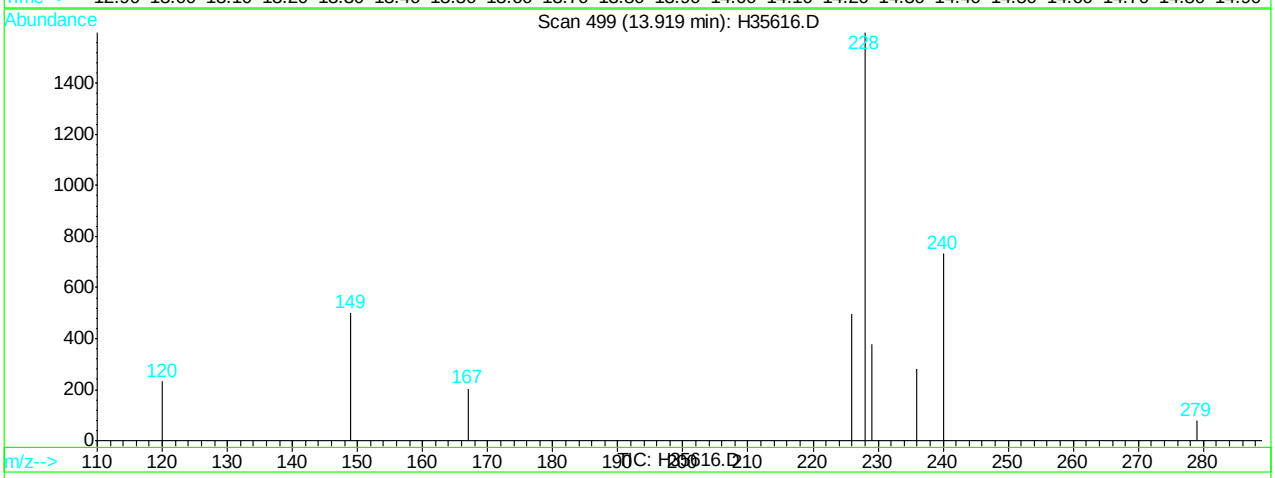
H35616.D H10269SP.M Tue Oct 27 14:51:26 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.92min 1.99ppb m

response 3622

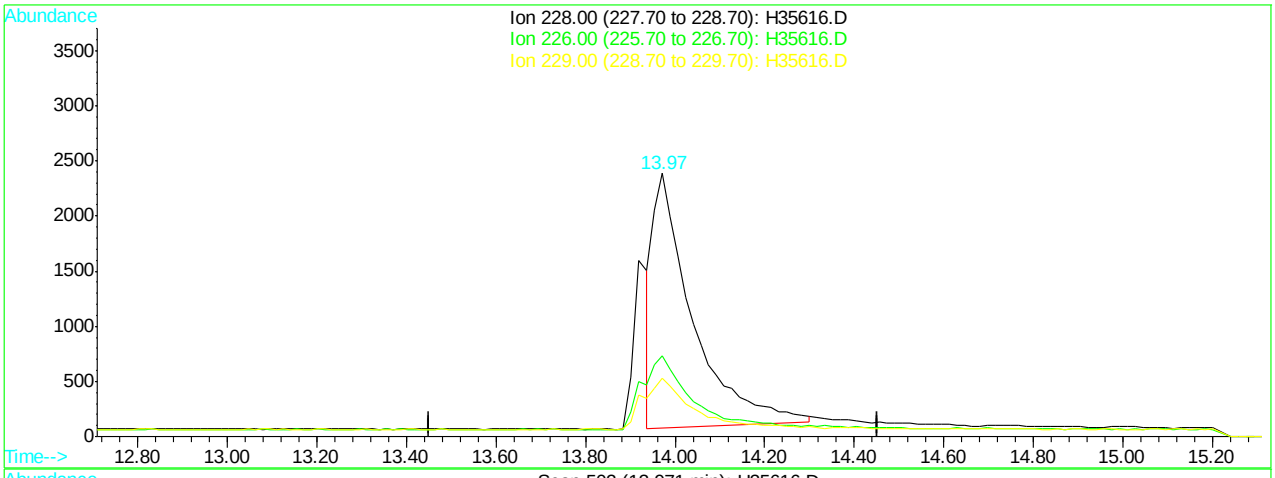
Ion	Exp%	Act%
228.00	100	100
229.00	22.80	23.51
226.00	28.60	31.02
0.00	0.00	0.00

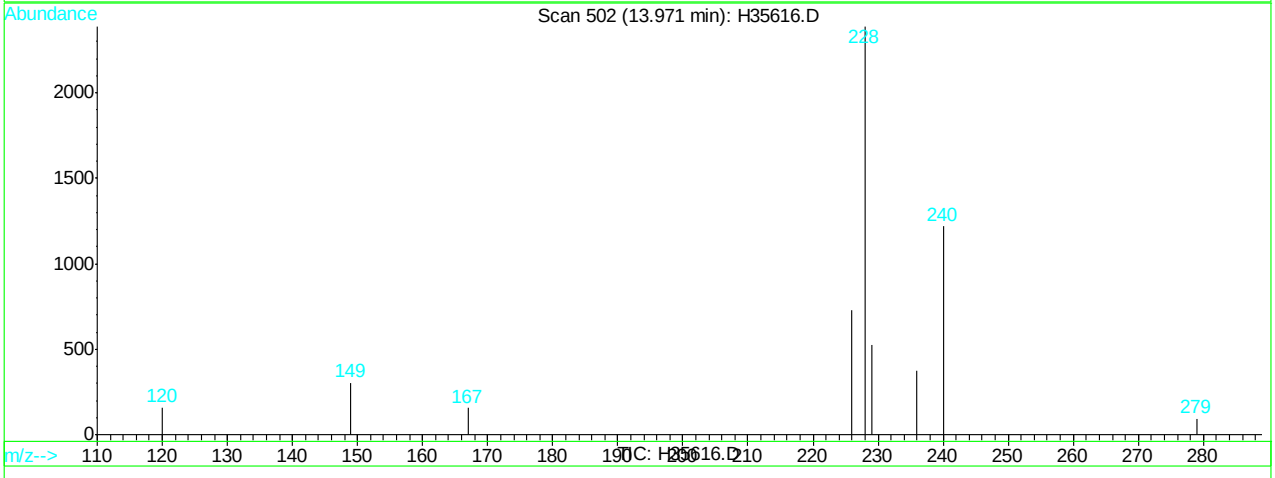
H35616.D H10269SP.M Tue Oct 27 14:51:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.97min 2.83ppb m

response 14195

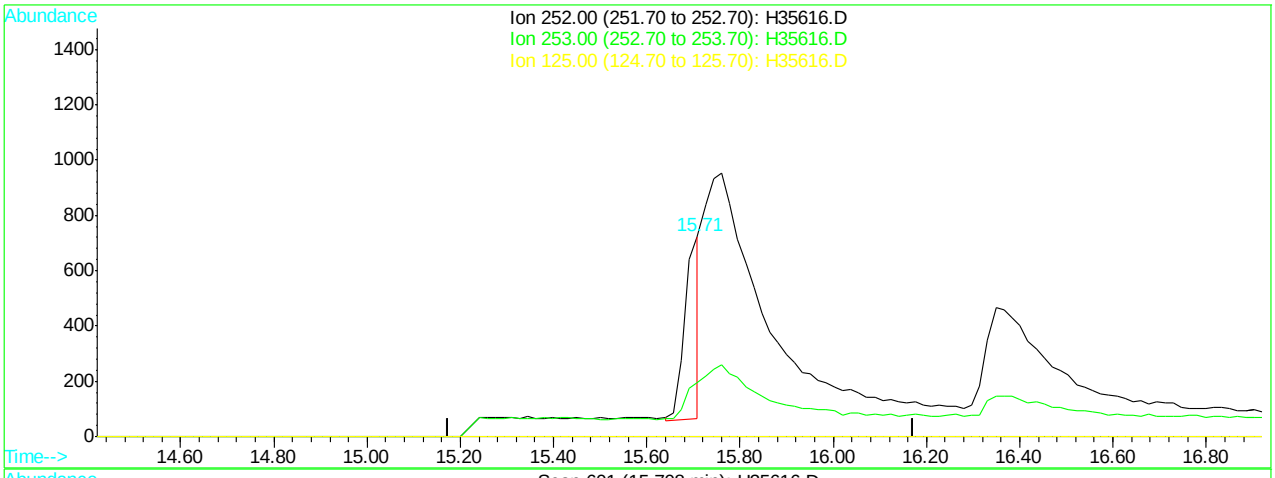
Ion	Exp%	Act%
228.00	100	100
226.00	31.80	30.53
229.00	22.40	22.11
0.00	0.00	0.00

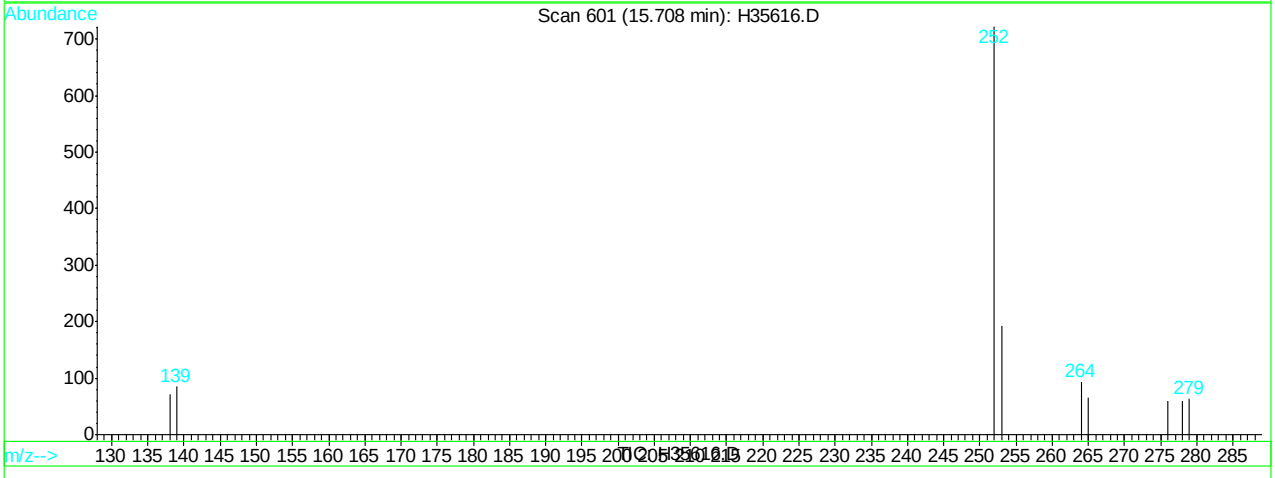
H35616.D H10269SP.M Tue Oct 27 14:51:35 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.71min 2.35ppb m

response 1535

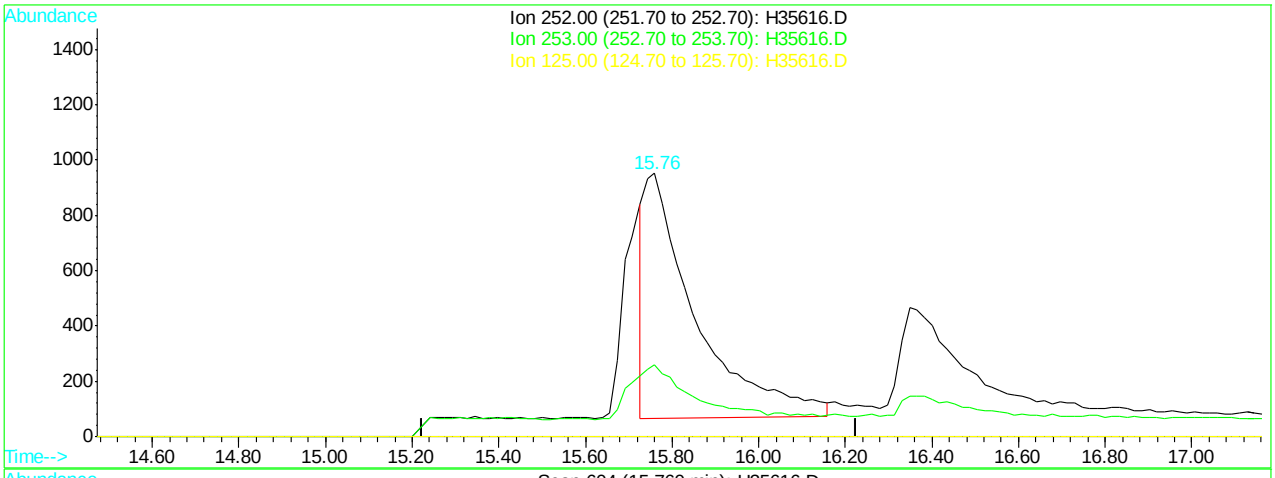
Ion	Exp%	Act%
252.00	100	100
253.00	28.40	26.73
125.00	0.00	0.00
0.00	0.00	0.00

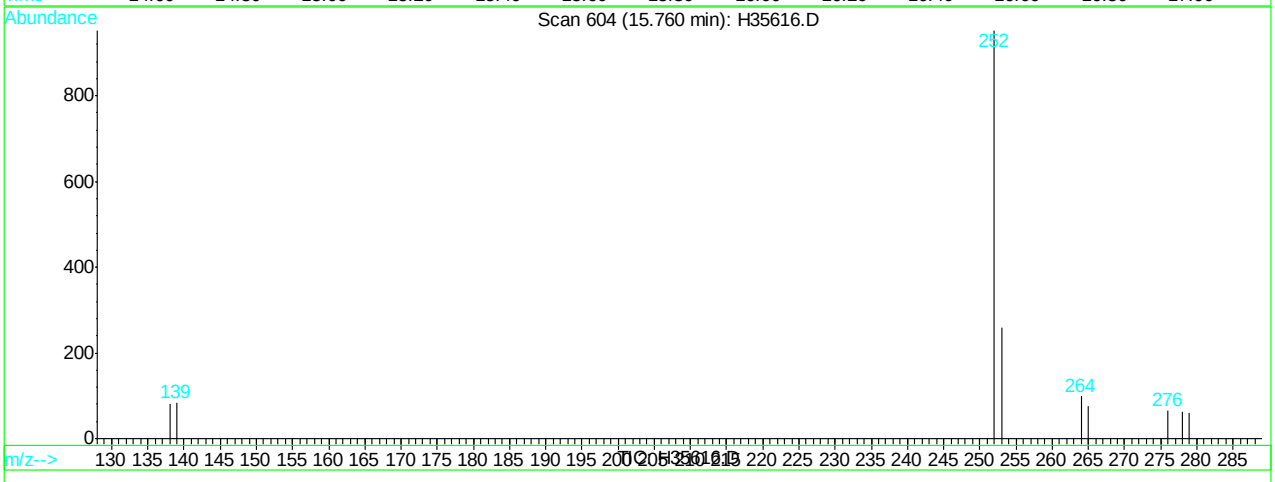
H35616.D H10269SP.M Tue Oct 27 14:51:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1921\H35616.D Vial: 8
Acq On : 26 Oct 2009 3:01 pm Operator: sheilac
Sample : icv1921-2.5 Inst : TXMSH
Misc : OP12779,EH1921,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 16:28 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.76min 2.73ppb m

response 7176

Ion	Exp%	Act%
252.00	100	100
253.00	28.10	27.21
125.00	0.00	0.00
0.00	0.00	0.00

H35616.D H10269SP.M Tue Oct 27 14:51:42 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	1131767	40.00	ug/ml	-0.02
20) Naphthalene-d8	6.120	136	4156402	40.00	ug/ml	-0.04
36) Acenaphthene-d10	8.629	164	2172842	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.426	188	3050995	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	2427194	40.00	ug/ml	0.00
80) Perylene-d12	19.748	264	1762776	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.895	112	339646	9.36	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 110		Recovery	=	9.36%#	
5) Phenol-d5 (SURR)	4.665	99	426538	9.45	ug/ml	-0.03
Spiked Amount 100.000	Range 23 - 114		Recovery	=	9.45%#	
21) Nitrobenzene-d5 (SURR)	5.382	82	209263	4.72	ug/ml	-0.05
Spiked Amount 50.000	Range 36 - 126		Recovery	=	9.44%#	
40) 2-Fluorobiphenyl (SURR)	7.527	172	376824	4.57	ug/ml	-0.06
Spiked Amount 50.000	Range 34 - 132		Recovery	=	9.14%#	
62) 2,4,6-Tribromophenol (...	10.067	330	79131	10.07	ug/ml	-0.05
Spiked Amount 100.000	Range 33 - 138		Recovery	=	10.07%#	
74) Terphenyl-d14	14.769	244	253631	4.68	ug/ml	-0.02
Spiked Amount 50.000	Range 46 - 136		Recovery	=	9.36%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	93609m	4.68	ug/ml	
3) Pyridine	2.627	79	156059m	4.54	ug/ml	
6) Phenol	4.681	94	231255	4.73	ug/ml	93
7) Aniline	4.628	93	211628	4.64	ug/ml	99
8) bis(2-Chloroethyl)ether	4.665	93	231589	4.58	ug/ml	99
9) 2-Chlorophenol	4.746	128	177762	4.75	ug/ml	100
10) 1,3-Dichlorobenzene	4.831	146	202363	4.78	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	220980	4.91	ug/ml	94
12) Benzyl Alcohol	5.024	108	115532	4.48	ug/ml	97
13) 1,2-Dichlorobenzene	5.029	146	193429	4.59	ug/ml	99
14) 2-Methylphenol	5.163	108	159314	4.71	ug/ml	98
15) bis(2-chloroisopropyl)...	5.120	45	304930	5.05	ug/ml	98
16) 4-Methylphenol	5.302	108	163048	4.60	ug/ml	99
17) m+p-Cresols	5.302	108	163048	4.60	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.243	70	152247	4.76	ug/ml	100
19) Hexachloroethane	5.334	117	76866	4.56	ug/ml	99
22) Nitrobenzene	5.398	77	205410	4.71	ug/ml	99
23) Isophorone	5.628	82	377302	4.77	ug/ml	99
24) 2-Nitrophenol	5.708	139	84665	4.39	ug/ml	99
25) 2,4-Dimethylphenol	5.783	122	138935	4.35	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.842	93	206408	4.74	ug/ml	100
27) Benzoic Acid	5.917	105	53806	3.66	ug/ml	93
28) 2,4-Dichlorophenol	6.008	162	124383	4.40	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.051	180	155536	4.51	ug/ml	99
30) Naphthalene	6.142	128	525298	4.65	ug/ml	100
31) 4-Chloroaniline	6.206	127	157550	4.29	ug/ml	99
32) Hexachlorobutadiene	6.286	225	97662	4.48	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.869	107	139664	4.29	ug/ml	99
34) 2-Methylnaphthalene	6.997	142	310487	4.45	ug/ml	99
35) 1-Methylnaphthalene	7.131	142	326170	4.47	ug/ml	99
37) Hexachlorocyclopentadiene	7.233	237	12800	1.47	ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	79355	4.49	ug/ml	100
39) 2,4,5-Trichlorophenol	7.543	196	80073	7.67	ug/ml	99
41) 2-Chloronaphthalene	7.703	162	281032	4.69	ug/ml	100
42) 2-Nitroaniline	7.885	65	98144	4.73	ug/ml	99
43) Dimethylphthalate	8.195	163	347339	4.70	ug/ml	100
44) Acenaphthylene	8.367	152	478875	4.65	ug/ml	100
45) 2,6-Dinitrotoluene	8.286	165	78314	4.53	ug/ml#	87
46) 3-Nitroaniline	8.581	138	61443	4.09	ug/ml#	77
47) Acenaphthene	8.671	154	278921	4.56	ug/ml	99
48) 2,4-Dinitrophenol	8.789	184	3806	5.16	ug/ml#	62
49) 4-Nitrophenol	9.126	65	30613	4.38	ug/ml#	91
50) Dibenzofuran	8.971	168	389921	4.44	ug/ml	100
51) 2,4-Dinitrotoluene	8.992	165	91521	4.30	ug/ml#	63
52) 2,3,4,6-Tetrachlorophenol	9.254	232	58838	3.91	ug/ml	97
53) Diethylphthalate	9.452	149	347292	4.40	ug/ml	100
54) Fluorene	9.597	166	327689	4.25	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.618	204	156995	4.13	ug/ml	100
56) 4-Nitroaniline	9.693	138	52401	3.92	ug/ml	97
58) 1,2-Diphenylhydrazine	9.918	77	363016	4.83	ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.763	198	22897	7.38	ug/ml	96
60) Diphenylamine	9.853	169	263778	4.79	ug/ml	100
61) n-Nitrosodiphenylamine	9.853	169	263778	4.79	ug/ml	100
63) 4-Bromophenyl-phenylether	10.549	248	87288	4.65	ug/ml	98
64) Hexachlorobenzene	10.677	284	97545	4.72	ug/ml	98
65) Pentachlorophenol	11.126	266	13720	1.65	ug/ml	95
66) Phenanthrene	11.463	178	416457	4.56	ug/ml	99
67) Anthracene	11.560	178	397023	4.49	ug/ml	99
68) Carbazole	11.934	167	329803	4.52	ug/ml	100
69) Di-n-butylphthalate	12.747	149	490470	4.29	ug/ml	100
70) Fluoranthene	13.908	202	378152	4.24	ug/ml	99
72) Benzidine	14.255	184	52435	2.58	ug/ml#	91
73) Pyrene	14.362	202	394970	5.04	ug/ml	99
75) Butylbenzylphthalate	15.865	149	172915	4.85	ug/ml	99
76) Benzo(a)anthracene	16.919	228	337127	4.91	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.919	252	86947	3.60	ug/ml	97
78) Chrysene	16.994	228	284766	4.91	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.133	149	232729	5.00	ug/ml	99
81) Di-n-octylphthalate	18.417	149	339068	7.62	ug/ml	100
82) Benzo(b)fluoranthene	19.042	252	264539	4.49	ug/ml	97
83) Benzo(k)fluoranthene	19.091	252	248573	4.39	ug/ml	97
84) Benzo(a)pyrene	19.631	252	226228	4.47	ug/ml	99
85) Indeno(1,2,3-cd)pyrene	21.909	276	190117	4.48	ug/ml	97
86) Dibenz(a,h)anthracene	21.936	278	152664	4.30	ug/ml	98
87) Benzo(g,h,i)perylene	22.524	276	151051	6.97	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

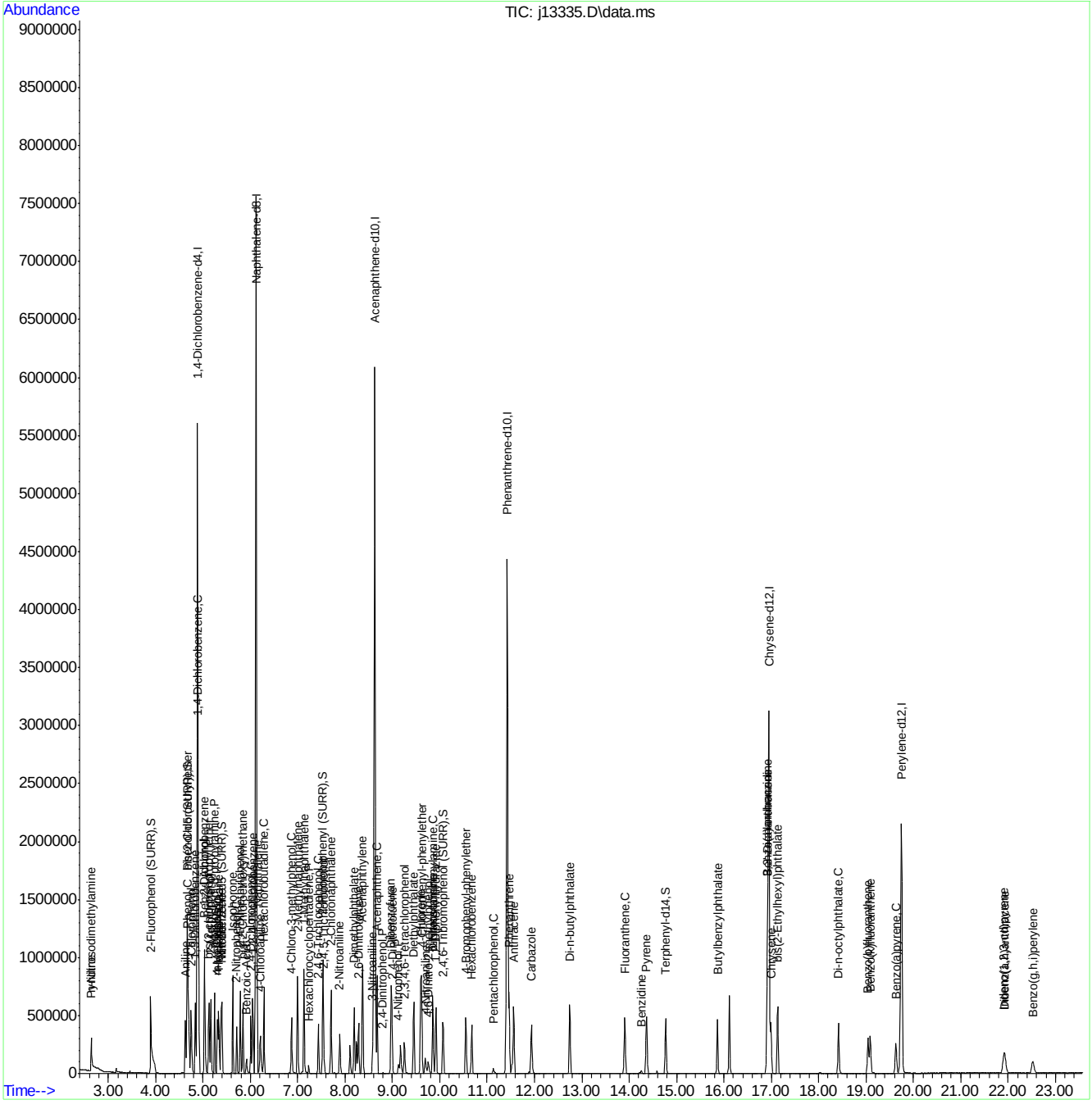
8.6.22

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

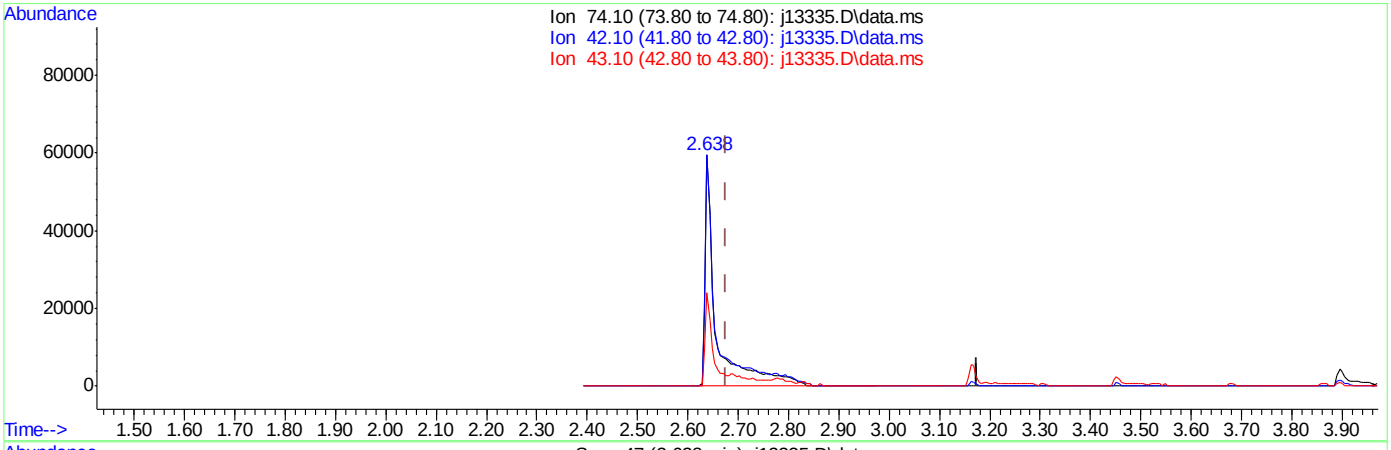


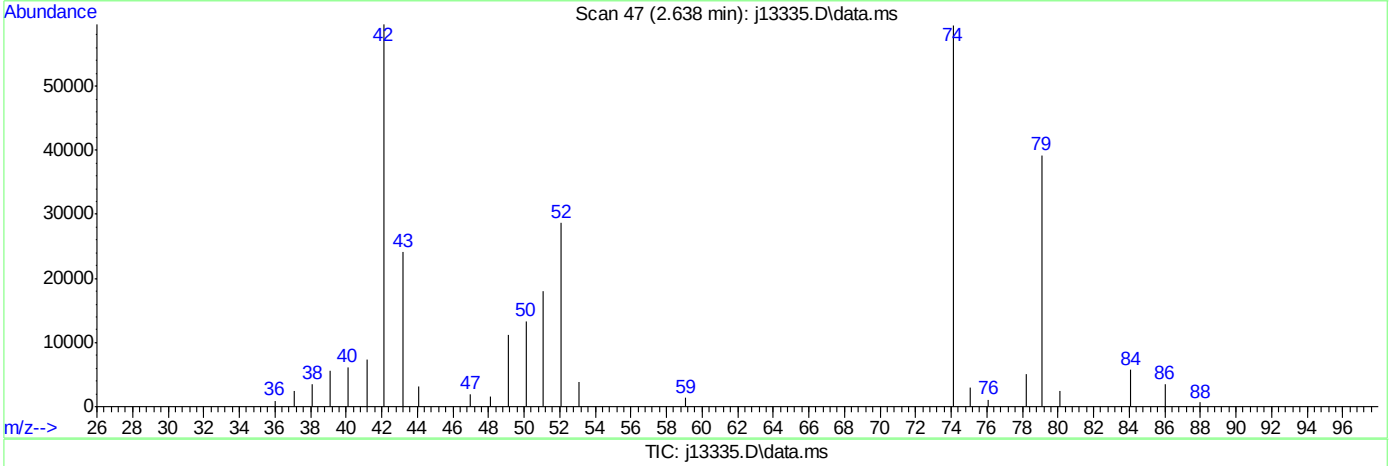
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration





TIC: j13335.D\data.ms

(2) n-Nitrosodimethylamine

2.638min (-0.038) 4.68ug/ml m

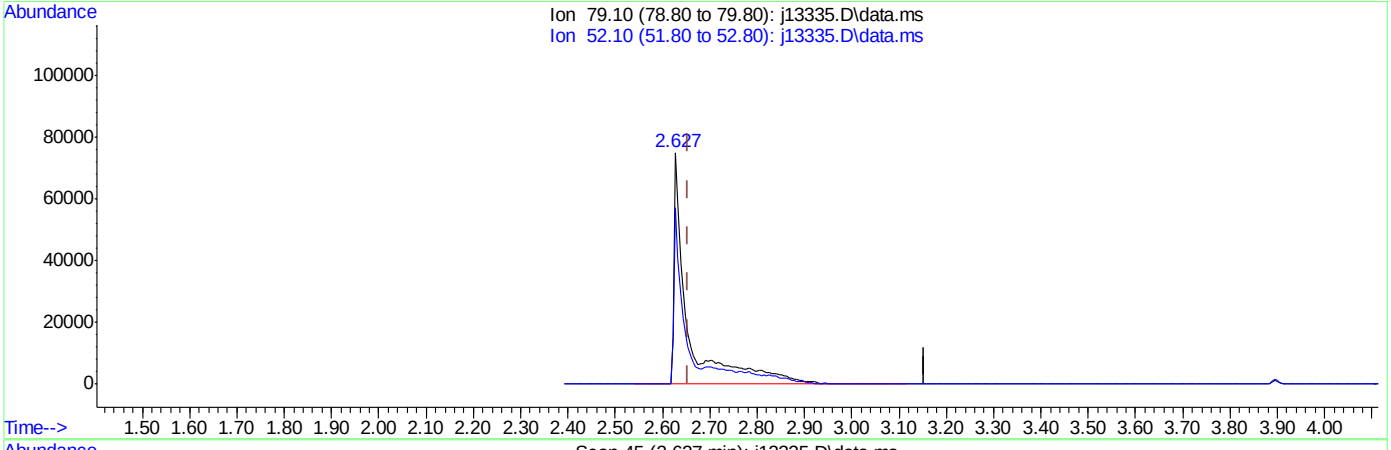
response 93609

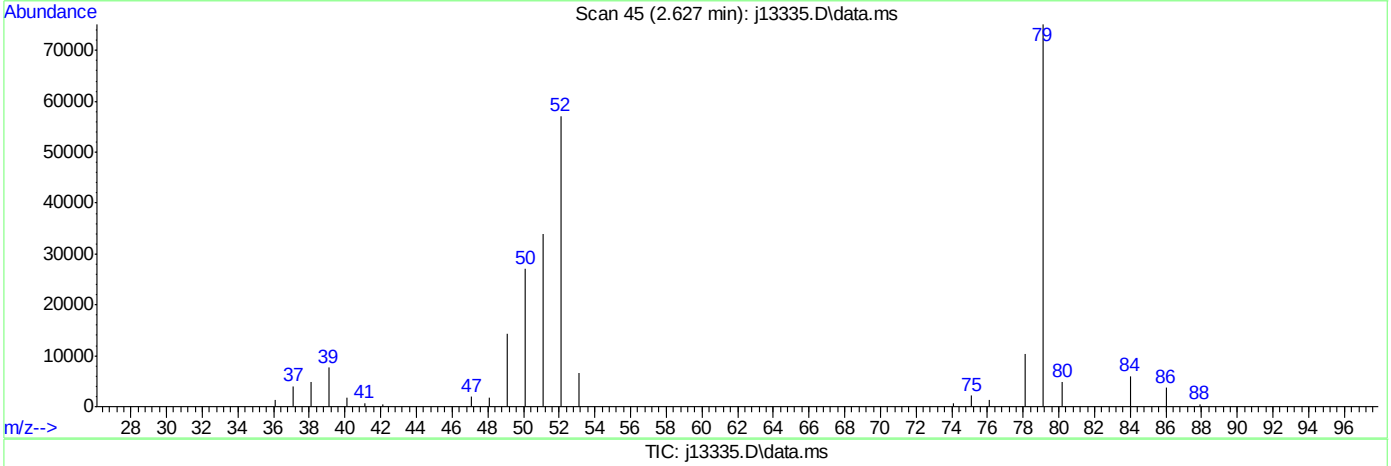
Ion	Exp%	Act%
74.10	100	100
42.10	97.90	93.95
43.10	40.50	28.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration





TIC: j13335.D\data.ms

(3) Pyridine

2.627min (-0.027) 4.54ug/ml m

response 156059

Ion	Exp%	Act%
79.10	100	100
52.10	45.00	45.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	438746	40.00	ug/ml	0.00
20) Naphthalene-d8	6.115	136	1627703	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.618	164	870467	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.415	188	1252710	40.00	ug/ml	-0.01
71) Chrysene-d12	16.940	240	1041785	40.00	ug/ml	-0.01
80) Perylene-d12	19.743	264	808724	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.895	112	258871	16.38	ug/ml	0.02
Spiked Amount 100.000	Range 23 - 110		Recovery = 16.38%#			
5) Phenol-d5 (SURR)	4.665	99	322025	16.14	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 16.14%#			
21) Nitrobenzene-d5 (SURR)	5.382	82	161623	8.40	ug/ml	-0.01
Spiked Amount 50.000	Range 36 - 126		Recovery = 16.80%#			
40) 2-Fluorobiphenyl (SURR)	7.527	172	296532	7.86	ug/ml	-0.02
Spiked Amount 50.000	Range 34 - 132		Recovery = 15.72%#			
62) 2,4,6-Tribromophenol (...	10.067	330	62678	13.68	ug/ml	-0.03
Spiked Amount 100.000	Range 33 - 138		Recovery = 13.68%#			
74) Terphenyl-d14	14.774	244	220022	8.19	ug/ml	-0.01
Spiked Amount 50.000	Range 46 - 136		Recovery = 16.38%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.633	74	72101	8.48	ug/ml	92
3) Pyridine	2.622	79	120863m	7.89	ug/ml	
6) Phenol	4.681	94	174873	8.10	ug/ml	95
7) Aniline	4.622	93	168881	7.95	ug/ml	94
8) bis(2-Chloroethyl)ether	4.665	93	177684	8.53	ug/ml	98
9) 2-Chlorophenol	4.745	128	136759	8.44	ug/ml	99
10) 1,3-Dichlorobenzene	4.831	146	155349	8.44	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	165674	8.49	ug/ml	98
12) Benzyl Alcohol	5.024	108	89752	8.01	ug/ml	97
13) 1,2-Dichlorobenzene	5.029	146	151362	8.28	ug/ml	100
14) 2-Methylphenol	5.163	108	125342	8.70	ug/ml	98
15) bis(2-chloroisopropyl)...	5.120	45	243853	9.25	ug/ml	98
16) 4-Methylphenol	5.302	108	126943	8.54	ug/ml	100
17) m+p-Cresols	5.302	108	126943	8.54	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.243	70	121231	8.78	ug/ml	99
19) Hexachloroethane	5.328	117	59495	8.30	ug/ml	99
22) Nitrobenzene	5.398	77	160329	8.48	ug/ml	98
23) Isophorone	5.628	82	298019	8.60	ug/ml	99
24) 2-Nitrophenol	5.708	139	63247	7.71	ug/ml	98
25) 2,4-Dimethylphenol	5.783	122	113813	7.89	ug/ml	100
26) bis(2-Chloroethoxy)met...	5.842	93	160453	8.43	ug/ml	100
27) Benzoic Acid	5.911	105	35456	5.60	ug/ml	98
28) 2,4-Dichlorophenol	6.008	162	95089	7.85	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.051	180	120898	8.15	ug/ml	99
30) Naphthalene	6.136	128	405301	8.24	ug/ml	100
31) 4-Chloroaniline	6.206	127	126170	7.66	ug/ml	98
32) Hexachlorobutadiene	6.286	225	77068	8.24	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.869	107	107401	7.80	ug/ml	100
34) 2-Methylnaphthalene	6.997	142	242892	8.15	ug/ml	100
35) 1-Methylnaphthalene	7.131	142	254986	8.17	ug/ml	100
37) Hexachlorocyclopentadiene	7.233	237	6154	2.13	ug/ml#	19
38) 2,4,6-Trichlorophenol	7.436	196	59675	7.37	ug/ml	99
39) 2,4,5-Trichlorophenol	7.543	196	60186	6.96	ug/ml	100
41) 2-Chloronaphthalene	7.703	162	218829	8.07	ug/ml	99
42) 2-Nitroaniline	7.885	65	75946	8.18	ug/ml	98
43) Dimethylphthalate	8.190	163	282079	8.49	ug/ml	100
44) Acenaphthylene	8.366	152	381060	8.17	ug/ml	100
45) 2,6-Dinitrotoluene	8.281	165	62071	8.11	ug/ml	88
46) 3-Nitroaniline	8.580	138	48355	7.65	ug/ml#	83
47) Acenaphthene	8.671	154	224618	8.28	ug/ml	99
48) 2,4-Dinitrophenol	8.789	184	1160m	0.75	ug/ml	
49) 4-Nitrophenol	9.126	65	34262	9.11	ug/ml#	75
50) Dibenzofuran	8.976	168	312182	8.08	ug/ml	100
51) 2,4-Dinitrotoluene	8.987	165	73063	7.78	ug/ml#	69
52) 2,3,4,6-Tetrachlorophenol	9.254	232	44591	6.85	ug/ml	98
53) Diethylphthalate	9.452	149	284682	8.28	ug/ml	100
54) Fluorene	9.597	166	263317	7.84	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.618	204	127435	7.90	ug/ml	100
56) 4-Nitroaniline	9.693	138	40517	7.46	ug/ml	98
58) 1,2-Diphenylhydrazine	9.918	77	294772	8.58	ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.757	198	17449	8.55	ug/ml	97
60) Diphenylamine	9.853	169	210824	8.35	ug/ml	100
61) n-Nitrosodiphenylamine	9.853	169	210824	8.35	ug/ml	100
63) 4-Bromophenyl-phenylether	10.554	248	71125	8.29	ug/ml	100
64) Hexachlorobenzene	10.677	284	80790	8.62	ug/ml	99
65) Pentachlorophenol	11.126	266	10758	2.91	ug/ml	98
66) Phenanthrene	11.458	178	344061	8.41	ug/ml	99
67) Anthracene	11.560	178	327120	8.27	ug/ml	100
68) Carbazole	11.934	167	267649	8.36	ug/ml	99
69) Di-n-butylphthalate	12.747	149	435135	8.77	ug/ml	100
70) Fluoranthene	13.908	202	322270	8.53	ug/ml	100
72) Benzidine	14.255	184	59343	6.68	ug/ml#	95
73) Pyrene	14.368	202	337027	8.43	ug/ml	100
75) Butylbenzylphthalate	15.865	149	156729	8.56	ug/ml	99
76) Benzo(a)anthracene	16.919	228	278566	8.52	ug/ml	100
77) 3,3'-Dichlorobenzidine	16.919	252	74079	10.23	ug/ml	97
78) Chrysene	16.988	228	242960	8.64	ug/ml	99
79) bis(2-Ethylhexyl)phtha...	17.138	149	222888	9.12	ug/ml	99
81) Di-n-octylphthalate	18.422	149	308929	7.33	ug/ml#	97
82) Benzo(b)fluoranthene	19.042	252	224706	7.78	ug/ml	100
83) Benzo(k)fluoranthene	19.096	252	225043	8.01	ug/ml	99
84) Benzo(a)pyrene	19.631	252	201067	7.91	ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.909	276	186731	8.27	ug/ml	99
86) Dibenz(a,h)anthracene	21.936	278	150717	8.17	ug/ml	99
87) Benzo(g,h,i)perylene	22.524	276	152191	8.99	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

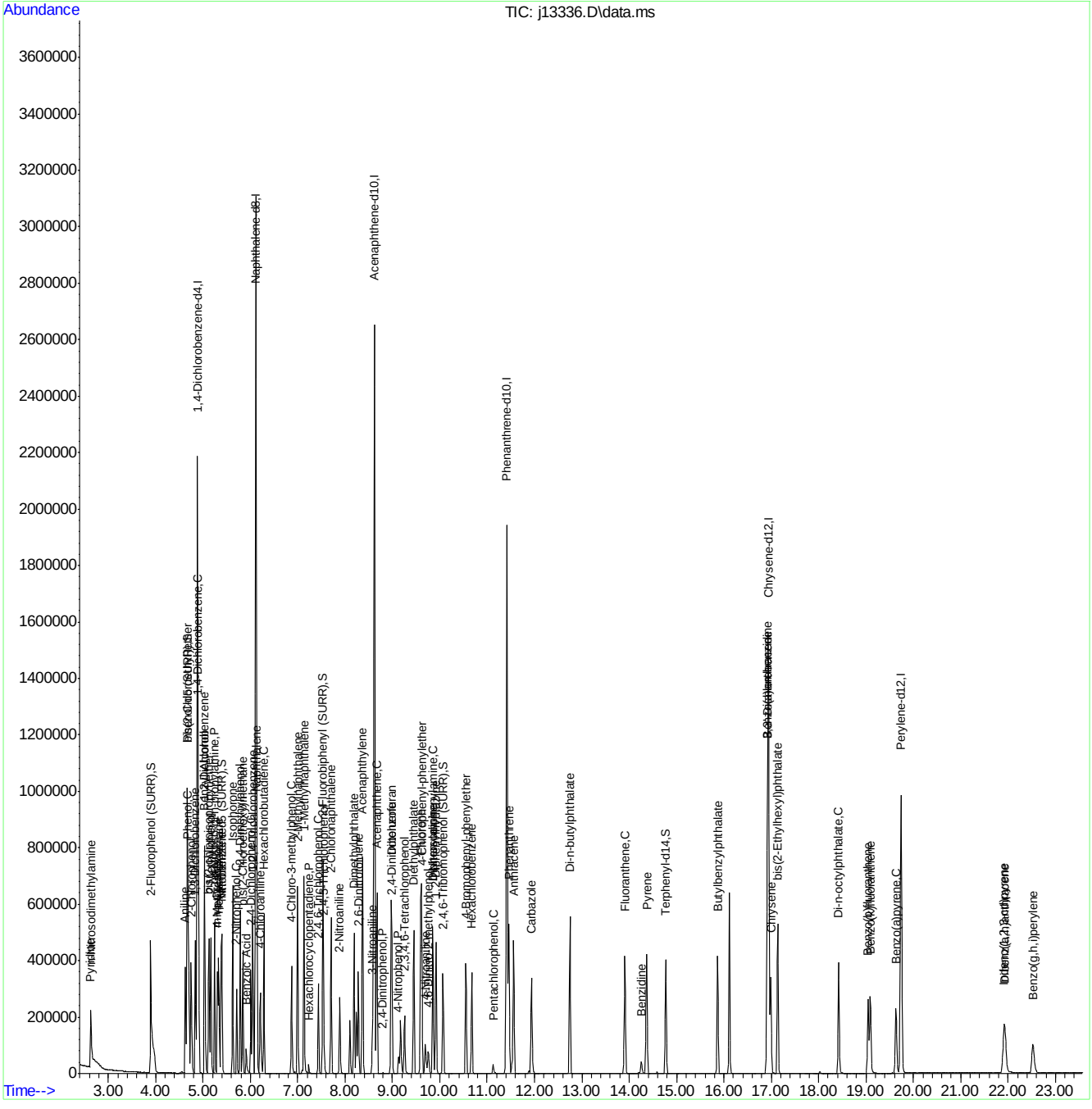
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

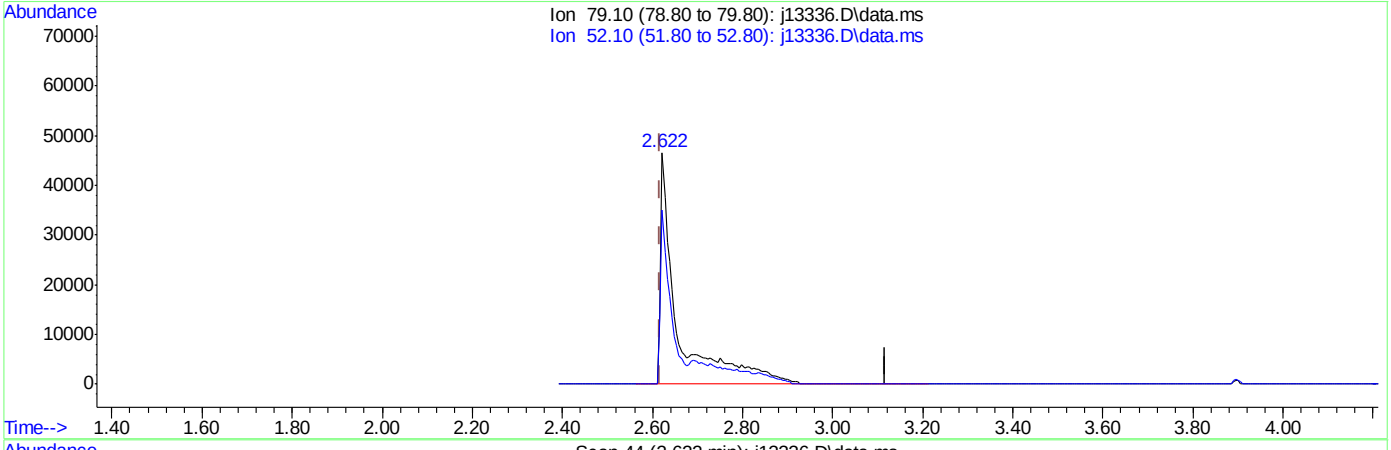


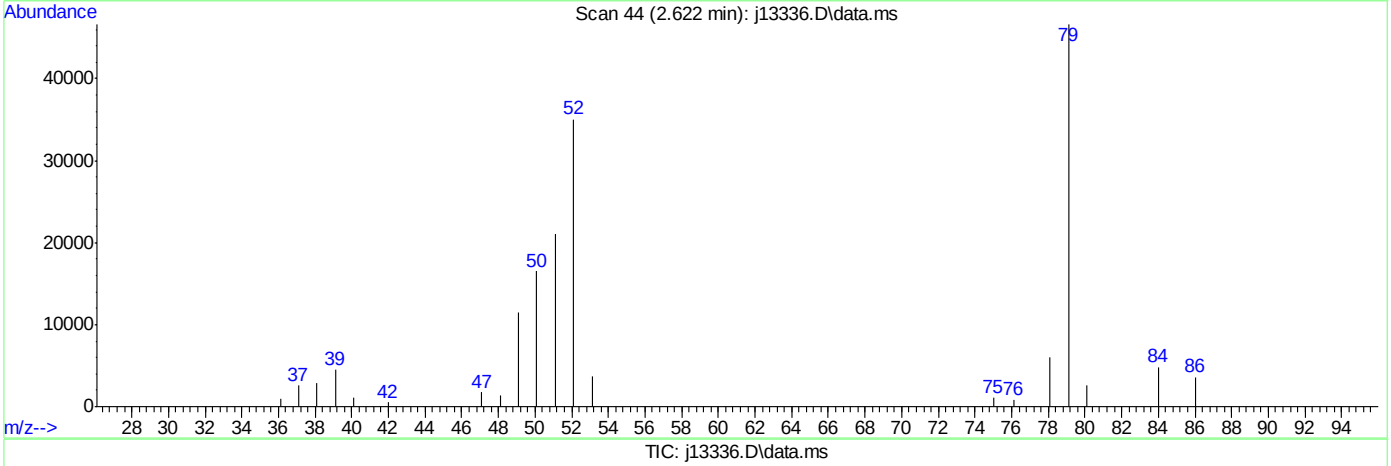
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration





TIC: j13336.D\data.ms

(3) Pyridine

2.622min (+0.005) 7.89ug/ml m

response 120863

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	576826	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	2141894	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	1134750	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1652005	40.00	ug/ml	0.01
71) Chrysene-d12	16.946	240	1183011	40.00	ug/ml	0.00
80) Perylene-d12	19.743	264	760056	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.884	112	882461	44.49	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 110		Recovery = 44.49%			
5) Phenol-d5 (SURR)	4.655	99	1148563	46.01	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 114		Recovery = 46.01%			
21) Nitrobenzene-d5 (SURR)	5.387	82	552027	22.72	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 45.44%			
40) 2-Fluorobiphenyl (SURR)	7.532	172	1081356	23.22	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 46.44%			
62) 2,4,6-Tribromophenol (...	10.078	330	248590	43.92	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery = 43.92%			
74) Terphenyl-d14	14.780	244	715852	24.58	ug/ml	0.00
Spiked Amount 50.000	Range 46 - 136		Recovery = 49.16%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	244369	22.73	ug/ml	98
3) Pyridine	2.622	79	412969m	21.64	ug/ml	
6) Phenol	4.671	94	626171	23.17	ug/ml	98
7) Aniline	4.628	93	623162	23.53	ug/ml	97
8) bis(2-Chloroethyl)ether	4.671	93	610707	23.16	ug/ml	99
9) 2-Chlorophenol	4.745	128	471547	23.03	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	528572	22.74	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	566630	22.95	ug/ml	99
12) Benzyl Alcohol	5.029	108	327219	23.39	ug/ml	99
13) 1,2-Dichlorobenzene	5.029	146	526034	22.87	ug/ml	100
14) 2-Methylphenol	5.163	108	428457	23.37	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	790424	23.25	ug/ml	99
16) 4-Methylphenol	5.296	108	436035	23.17	ug/ml	99
17) m+p-Cresols	5.296	108	436035	23.17	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.254	70	408001	23.19	ug/ml	100
19) Hexachloroethane	5.334	117	205708	22.81	ug/ml	99
22) Nitrobenzene	5.403	77	547705	22.89	ug/ml	99
23) Isophorone	5.639	82	1004753	22.84	ug/ml	99
24) 2-Nitrophenol	5.714	139	235096	23.10	ug/ml	98
25) 2,4-Dimethylphenol	5.788	122	401465	22.33	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	550999	22.89	ug/ml	100
27) Benzoic Acid	5.954	105	188007	25.35	ug/ml	97
28) 2,4-Dichlorophenol	6.002	162	345112	22.87	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.056	180	422800	22.70	ug/ml	99
30) Naphthalene	6.141	128	1408745	22.77	ug/ml	100
31) 4-Chloroaniline	6.211	127	415356	20.35	ug/ml	96
32) Hexachlorobutadiene	6.286	225	266684	22.66	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	391494	22.87	ug/ml	100
34) 2-Methylnaphthalene	7.003	142	856183	22.88	ug/ml	100
35) 1-Methylnaphthalene	7.136	142	893157	22.78	ug/ml	100
37) Hexachlorocyclopentadiene	7.233	237	80435	26.64	ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	227827	23.11	ug/ml	99
39) 2,4,5-Trichlorophenol	7.532	196	248665	23.88	ug/ml	98
41) 2-Chloronaphthalene	7.709	162	776730	23.08	ug/ml	100
42) 2-Nitroaniline	7.896	65	270784	23.43	ug/ml	99
43) Dimethylphthalate	8.211	163	944794	22.66	ug/ml	100
44) Acenaphthylene	8.377	152	1345047	23.19	ug/ml	100
45) 2,6-Dinitrotoluene	8.297	165	216563	22.77	ug/ml	87
46) 3-Nitroaniline	8.596	138	157782	20.34	ug/ml	95
47) Acenaphthene	8.682	154	779169	23.02	ug/ml	100
48) 2,4-Dinitrophenol	8.784	184	40826	26.20	ug/ml	95
49) 4-Nitrophenol	9.105	65	108283	22.59	ug/ml	97
50) Dibenzofuran	8.982	168	1101332	22.97	ug/ml	100
51) 2,4-Dinitrotoluene	9.003	165	265741	22.98	ug/ml#	70
52) 2,3,4,6-Tetrachlorophenol	9.254	232	183758	23.51	ug/ml	99
53) Diethylphthalate	9.468	149	967081	22.55	ug/ml	100
54) Fluorene	9.607	166	941580	22.73	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.623	204	451961	22.68	ug/ml	100
56) 4-Nitroaniline	9.720	138	145753m	21.98	ug/ml	
58) 1,2-Diphenylhydrazine	9.928	77	1001926	22.77	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.768	198	100756	21.76	ug/ml	97
60) Diphenylamine	9.869	169	733939	22.78	ug/ml	100
61) n-Nitrosodiphenylamine	9.869	169	733939	22.78	ug/ml	100
63) 4-Bromophenyl-phenylether	10.559	248	247018	22.61	ug/ml	100
64) Hexachlorobenzene	10.682	284	271309	22.58	ug/ml	100
65) Pentachlorophenol	11.126	266	73730	18.36	ug/ml	98
66) Phenanthrene	11.469	178	1179677	22.59	ug/ml	100
67) Anthracene	11.570	178	1130479	22.45	ug/ml	100
68) Carbazole	11.939	167	864484	21.16	ug/ml	99
69) Di-n-butylphthalate	12.752	149	1423397	22.31	ug/ml	100
70) Fluoranthene	13.913	202	1067679	22.08	ug/ml	100
72) Benzidine	14.261	184	87648	9.47	ug/ml#	98
73) Pyrene	14.373	202	1088938	24.96	ug/ml	100
75) Butylbenzylphthalate	15.871	149	485737	24.22	ug/ml	99
76) Benzo(a)anthracene	16.924	228	812974	22.74	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.930	252	138669	16.76	ug/ml	96
78) Chrysene	16.994	228	708906	22.98	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.138	149	651935	24.03	ug/ml	100
81) Di-n-octylphthalate	18.427	149	896856	24.26	ug/ml#	100
82) Benzo(b)fluoranthene	19.053	252	582784	22.73	ug/ml	100
83) Benzo(k)fluoranthene	19.101	252	575526	22.94	ug/ml	100
84) Benzo(a)pyrene	19.636	252	510132	22.54	ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.915	276	456792	22.49	ug/ml	100
86) Dibenz(a,h)anthracene	21.947	278	371245	22.44	ug/ml	99
87) Benzo(g,h,i)perylene	22.535	276	360667	20.63	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

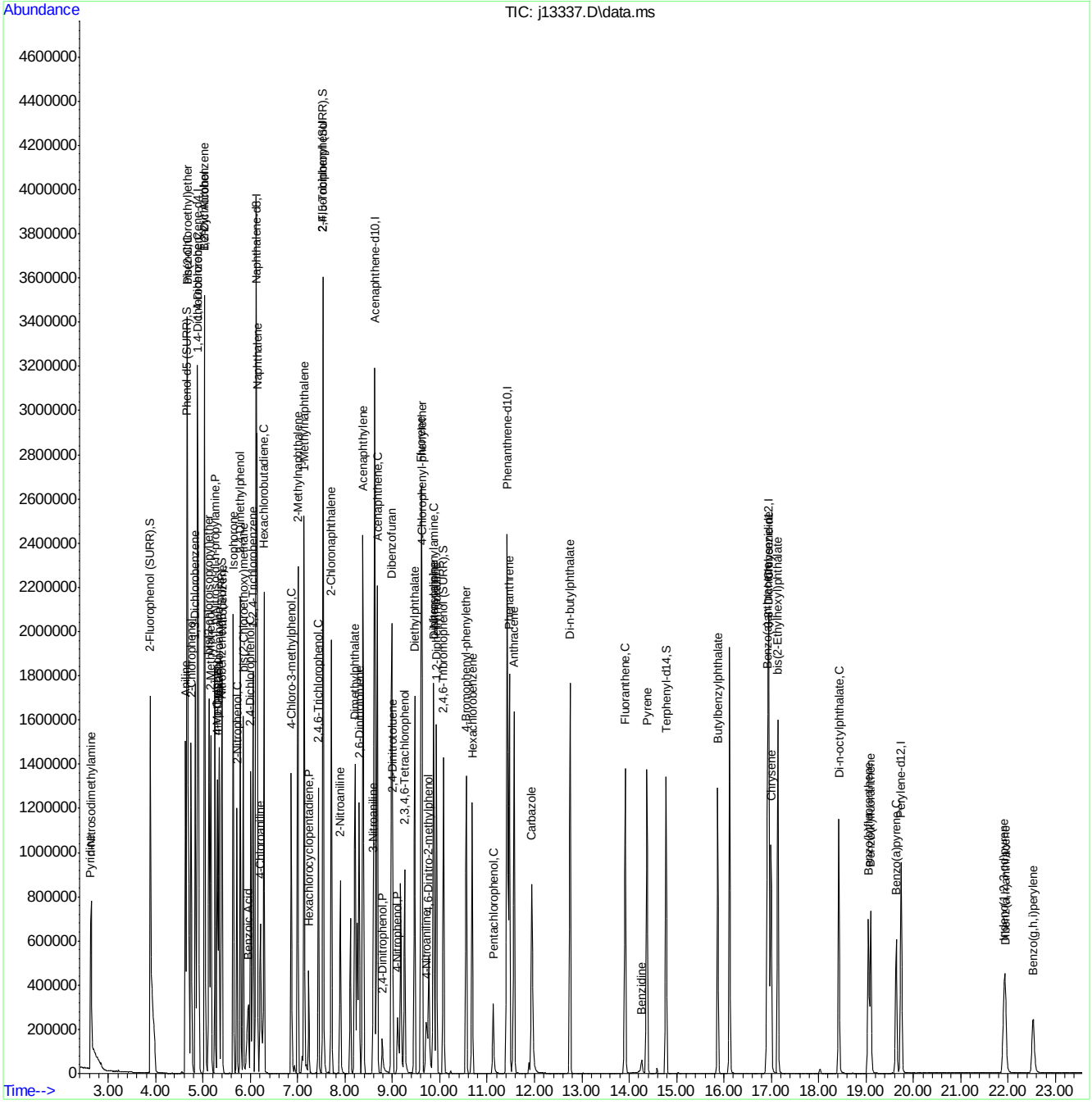
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

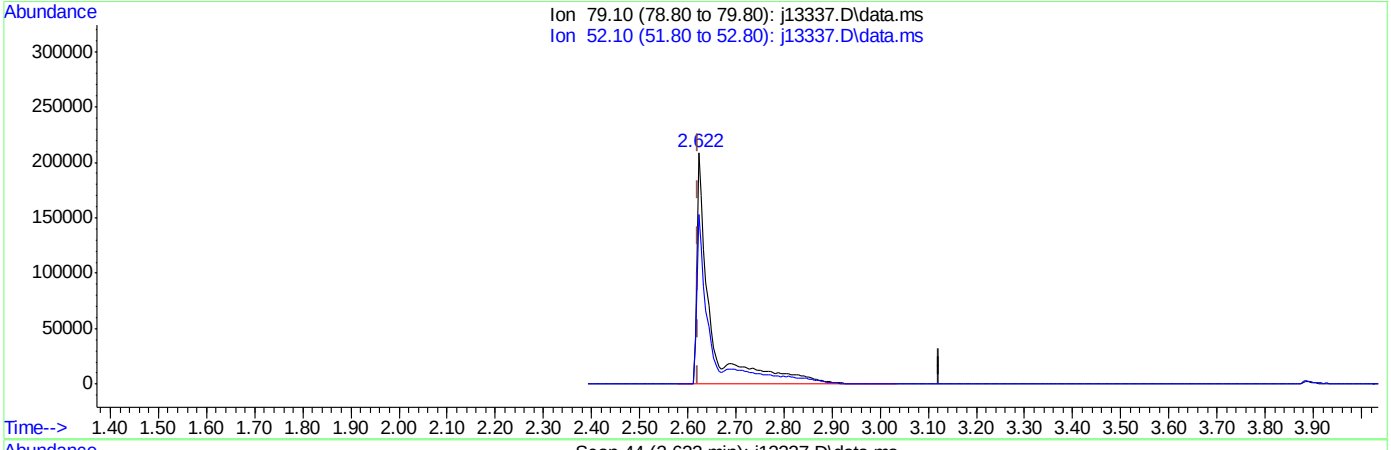
Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

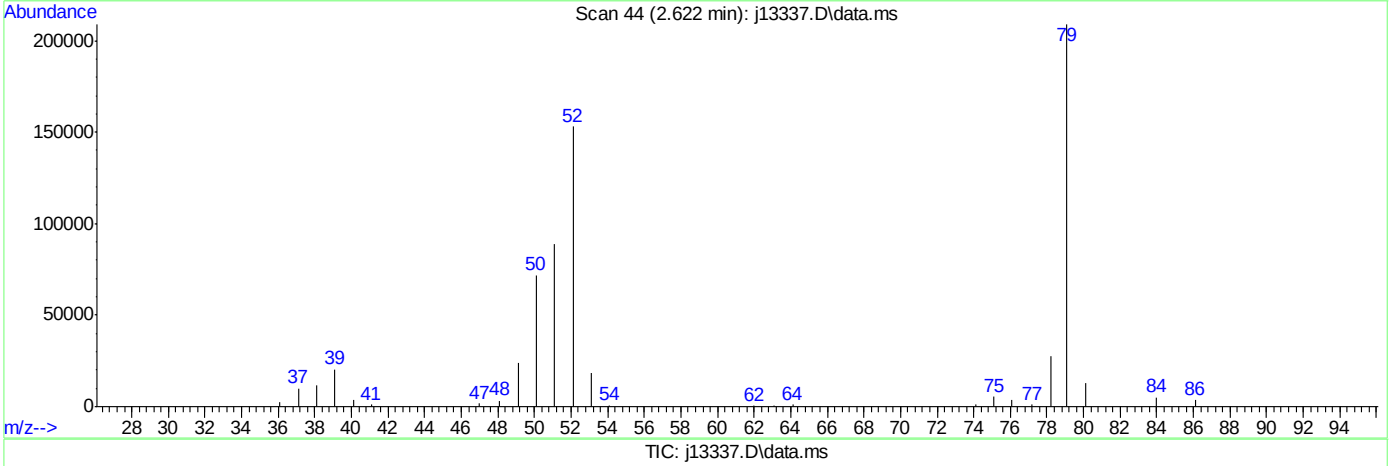


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration





(3) Pyridine

2.622min (+0.000) 21.64ug/ml m

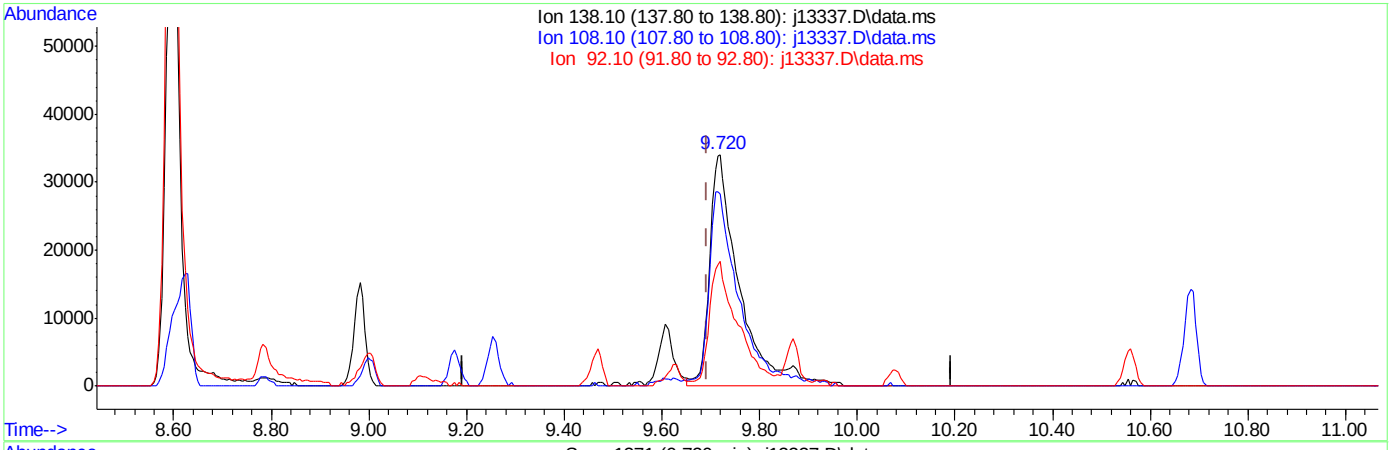
response 412969

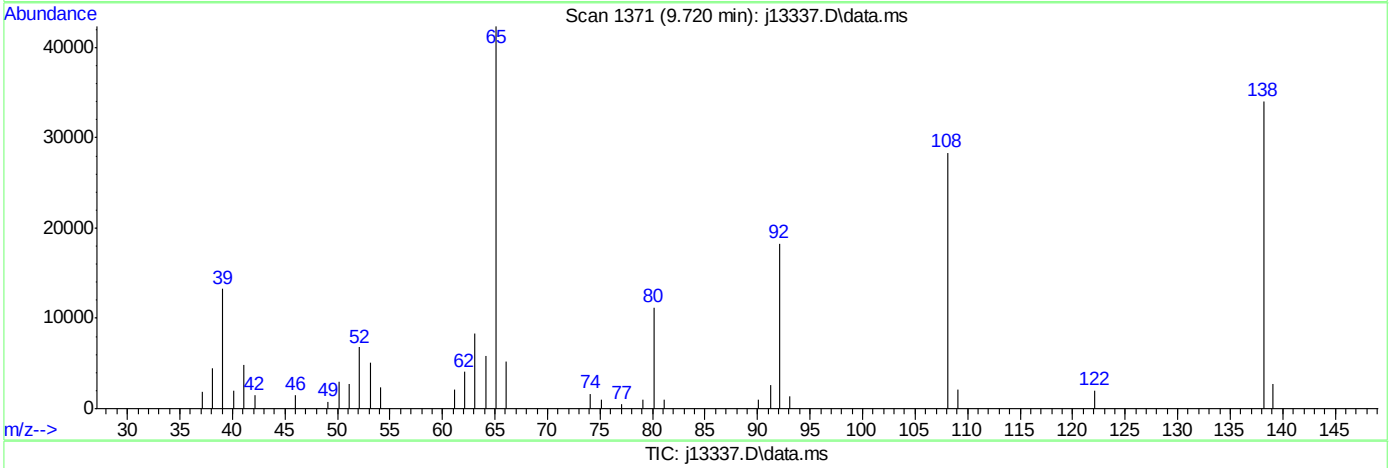
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	48.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration





TIC: j13337.D\data.ms

(56) 4-Nitroaniline

9.720min (+0.027) 21.98ug/ml m

response 145753

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	75.98
92.10	53.80	49.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	653336	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2372869	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.645	164	1357741	40.00	ug/ml	0.02
57) Phenanthrene-d10	11.447	188	1892973	40.00	ug/ml	0.02
71) Chrysene-d12	16.978	240	1520338	40.00	ug/ml	0.03
80) Perylene-d12	19.759	264	820076	40.00	ug/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.885	112	4167420	189.67	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 189.67%#			
5) Phenol-d5 (SURR)	4.676	99	4881596	175.46	ug/ml	0.02
Spiked Amount 100.000	Range 23 - 114		Recovery = 175.46%#			
21) Nitrobenzene-d5 (SURR)	5.414	82	2509457	94.94	ug/ml	0.03
Spiked Amount 50.000	Range 36 - 126		Recovery = 189.88%#			
40) 2-Fluorobiphenyl (SURR)	7.559	172	5603200	102.01	ug/ml	0.03
Spiked Amount 50.000	Range 34 - 132		Recovery = 204.02%#			
62) 2,4,6-Tribromophenol (...	10.132	330	1554070	253.77	ug/ml	0.05
Spiked Amount 100.000	Range 33 - 138		Recovery = 253.77%#			
74) Terphenyl-d14	14.806	244	3757901	100.75	ug/ml	0.03
Spiked Amount 50.000	Range 46 - 136		Recovery = 201.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.654	74	1089484	91.14	ug/ml	98
3) Pyridine	2.638	79	1929938	91.77	ug/ml#	63
6) Phenol	4.692	94	2613323	86.65	ug/ml	96
7) Aniline	4.644	93	2814143	94.92	ug/ml	99
8) bis(2-Chloroethyl)ether	4.687	93	2557135	86.89	ug/ml	92
9) 2-Chlorophenol	4.756	128	2175701	95.32	ug/ml	98
10) 1,3-Dichlorobenzene	4.847	146	2473298	95.66	ug/ml	99
11) 1,4-Dichlorobenzene	4.906	146	2669427	97.03	ug/ml	100
12) Benzyl Alcohol	5.067	108	1544241	98.72	ug/ml	97
13) 1,2-Dichlorobenzene	5.045	146	2556187	99.82	ug/ml	100
14) 2-Methylphenol	5.168	108	1965583	95.92	ug/ml	99
15) bis(2-chloroisopropyl)...	5.136	45	3208339	84.50	ug/ml	96
16) 4-Methylphenol	5.323	108	2183458	103.94	ug/ml	99
17) m+p-Cresols	5.323	108	2183458	103.94	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.297	70	1879450	95.71	ug/ml	99
19) Hexachloroethane	5.339	117	995186	99.15	ug/ml	95
22) Nitrobenzene	5.436	77	2459865	94.38	ug/ml	97
23) Isophorone	5.676	82	4520656m	94.39	ug/ml	
24) 2-Nitrophenol	5.735	139	1277524	115.04	ug/ml	97
25) 2,4-Dimethylphenol	5.821	122	1934983	99.26	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.874	93	2525016	96.31	ug/ml	100
27) Benzoic Acid	6.061	105	1116577m	135.53	ug/ml	
28) 2,4-Dichlorophenol	6.024	162	1812719	110.31	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.067	180	2095633	103.48	ug/ml	99
30) Naphthalene	6.163	128	6697331	99.49	ug/ml	100
31) 4-Chloroaniline	6.233	127	2374572	109.09	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1323992	103.47	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.874	107	2026122	108.70 ug/ml	100
34) 2-Methylnaphthalene	7.019	142	4165107	102.22 ug/ml	100
35) 1-Methylnaphthalene	7.163	142	4360809	102.21 ug/ml	100
37) Hexachlorocyclopentadiene	7.243	237	676952	184.93 ug/ml	100
38) 2,4,6-Trichlorophenol	7.457	196	1236425	106.41 ug/ml	99
39) 2,4,5-Trichlorophenol	7.543	196	1422460	115.19 ug/ml	99
41) 2-Chloronaphthalene	7.736	162	3944428	99.50 ug/ml	100
42) 2-Nitroaniline	7.933	65	1259120	92.21 ug/ml	98
43) Dimethylphthalate	8.276	163	4532188	92.59 ug/ml	100
44) Acenaphthylene	8.415	152	6430718	94.03 ug/ml	100
45) 2,6-Dinitrotoluene	8.361	165	1103879	98.77 ug/ml	97
46) 3-Nitroaniline	8.656	138	1012309	113.28 ug/ml	96
47) Acenaphthene	8.720	154	3855974	96.74 ug/ml	100
48) 2,4-Dinitrophenol	8.832	184	412735	219.26 ug/ml	95
49) 4-Nitrophenol	9.110	65	666392m	118.49 ug/ml	
50) Dibenzofuran	9.019	168	5588416	99.03 ug/ml	100
51) 2,4-Dinitrotoluene	9.067	165	1316685	96.72 ug/ml	84
52) 2,3,4,6-Tetrachlorophenol	9.287	232	1049502	113.59 ug/ml	98
53) Diethylphthalate	9.538	149	4800558	95.44 ug/ml	100
54) Fluorene	9.650	166	5021357	103.19 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.661	204	2585640	110.49 ug/ml	96
56) 4-Nitroaniline	9.827	138	879310m	116.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.971	77	5276014	106.84 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.864	198	653734	99.33 ug/ml	93
60) Diphenylamine	9.934	169	3783863	104.15 ug/ml	98
61) n-Nitrosodiphenylamine	9.934	169	3783863	104.15 ug/ml	98
63) 4-Bromophenyl-phenylether	10.592	248	1291235	105.37 ug/ml	99
64) Hexachlorobenzene	10.725	284	1384001	102.13 ug/ml	98
65) Pentachlorophenol	11.148	266	559890	138.85 ug/ml	97
66) Phenanthrene	11.512	178	5978928	101.64 ug/ml	100
67) Anthracene	11.613	178	5766161	101.94 ug/ml	99
68) Carbazole	11.982	167	4609994	101.43 ug/ml	99
69) Di-n-butylphthalate	12.785	149	7042542	97.86 ug/ml	100
70) Fluoranthene	13.951	202	5295633	97.25 ug/ml	99
72) Benzidine	14.288	184	1570551	150.82 ug/ml	100
73) Pyrene	14.416	202	5283007	94.25 ug/ml	100
75) Butylbenzylphthalate	15.898	149	2379700	92.92 ug/ml	98
76) Benzo(a)anthracene	16.957	228	4435422	98.32 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.957	252	1267345	127.63 ug/ml	98
78) Chrysene	17.042	228	3567591m	91.47 ug/ml	
79) bis(2-Ethylhexyl)phtha...	17.160	149	3269116	94.49 ug/ml	99
81) Di-n-octylphthalate	18.449	149	4536280	114.39 ug/ml	100
82) Benzo(b)fluoranthene	19.091	252	3051122	112.35 ug/ml	99
83) Benzo(k)fluoranthene	19.144	252	2510236m	94.28 ug/ml	
84) Benzo(a)pyrene	19.674	252	2521059	105.32 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	21.952	276	1945284	90.60 ug/ml	99
86) Dibenz(a,h)anthracene	21.984	278	1676636	95.90 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1360221	80.39 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

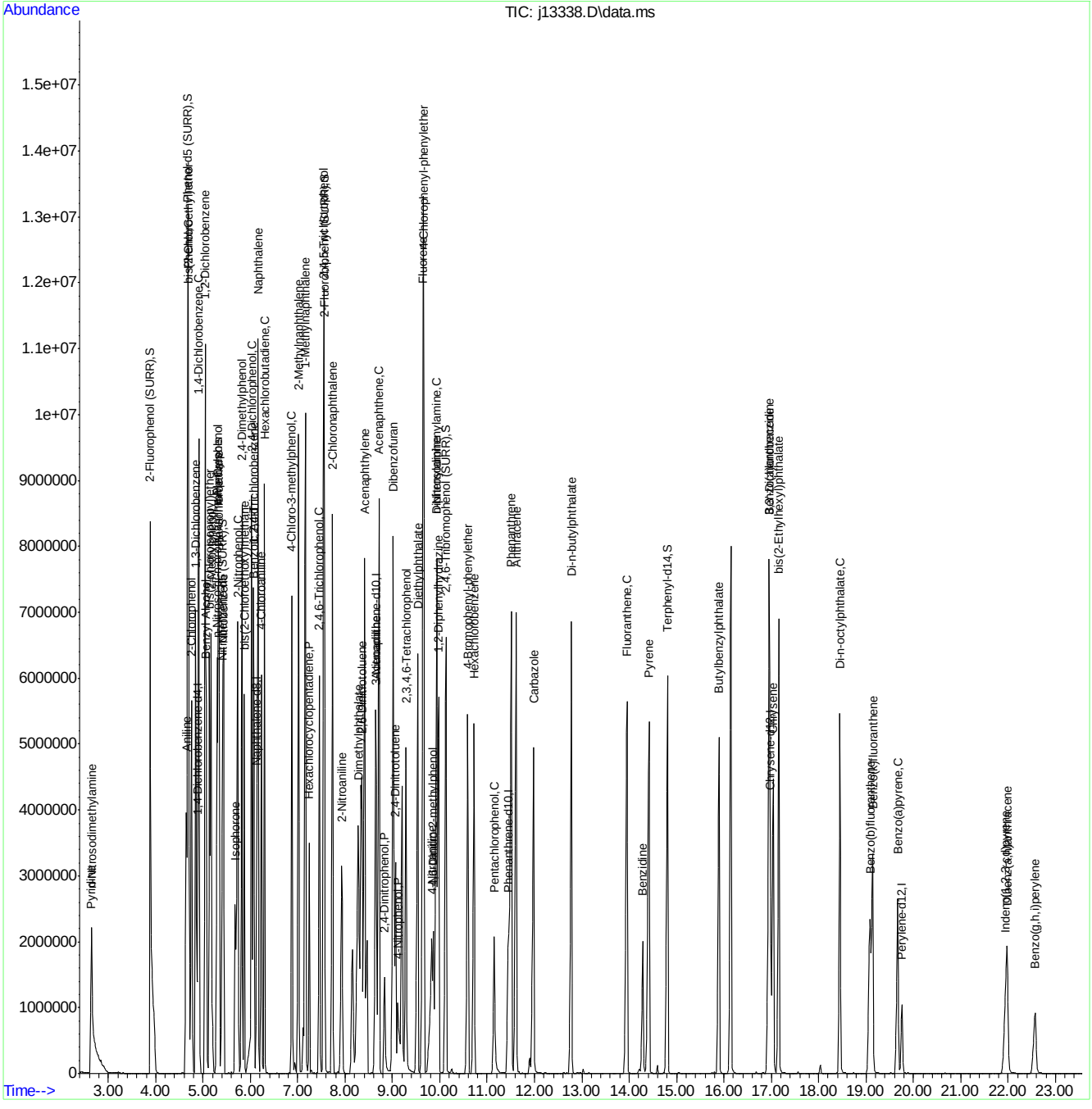
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

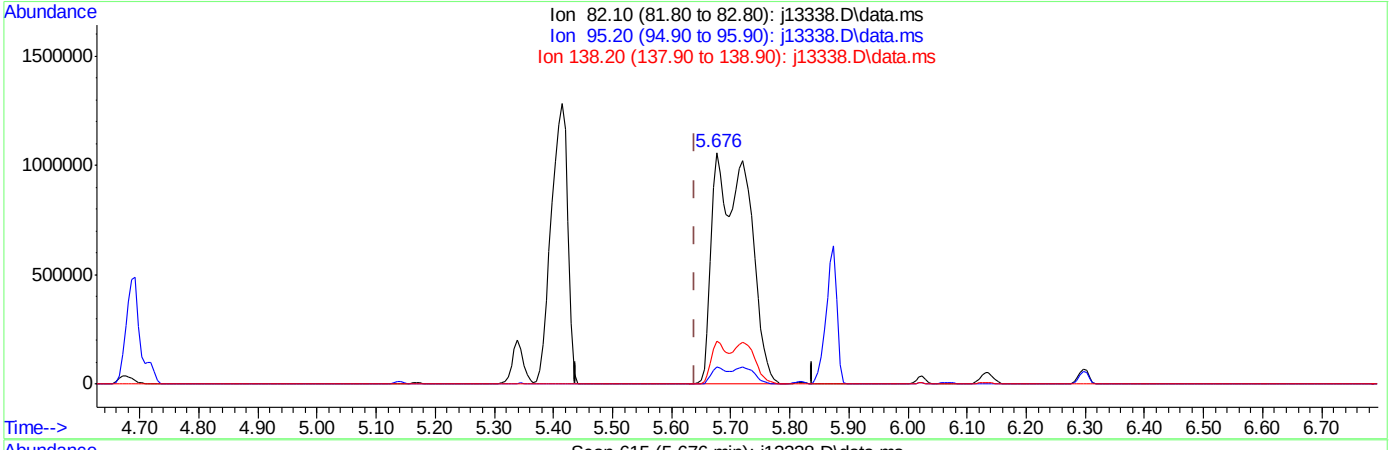
Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

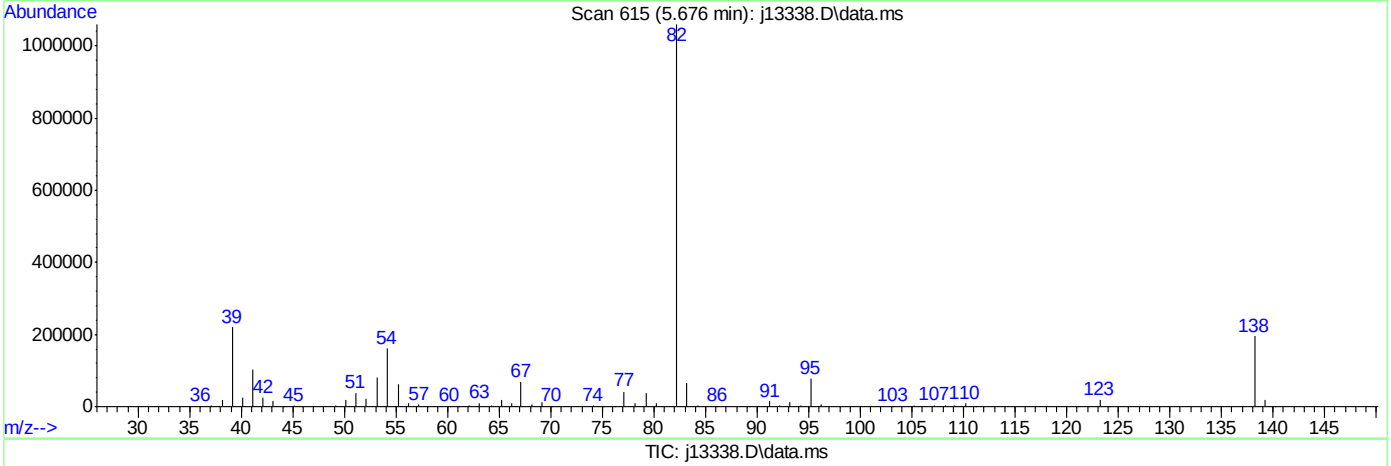


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(23) Isophorone

5.676min (+0.037) 94.39ug/ml m

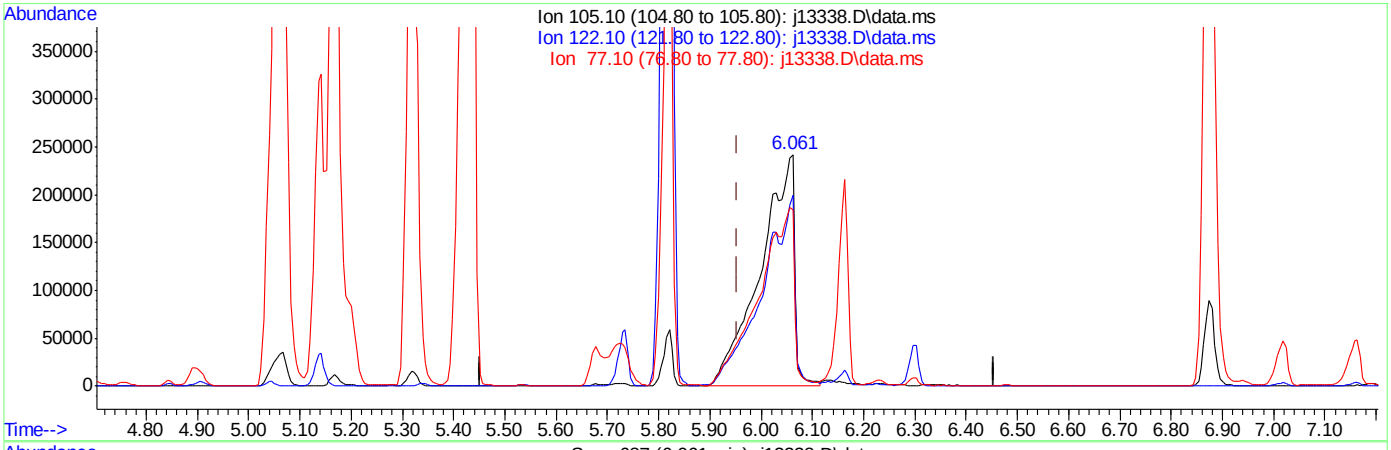
response 4520656

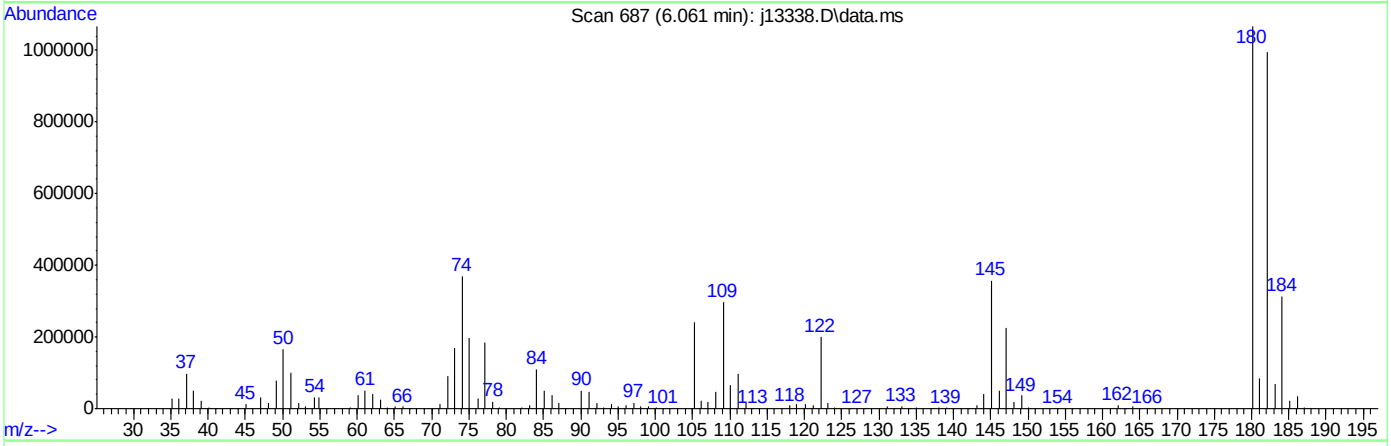
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	3.21
138.20	18.50	8.03
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





(27) Benzoic Acid

6.061min (+0.107) 135.53ug/ml m

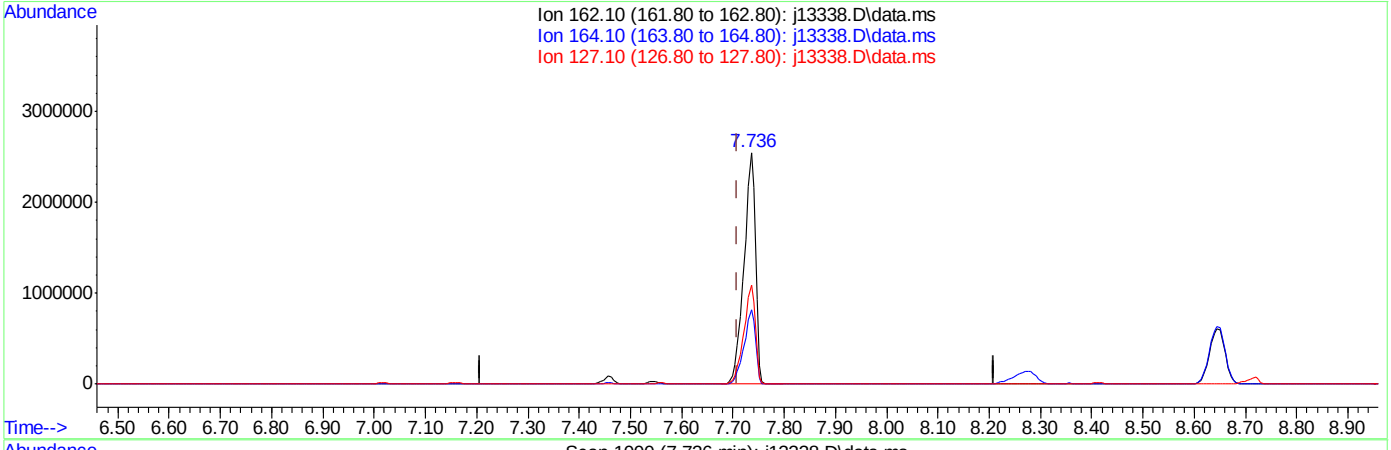
response 1116577

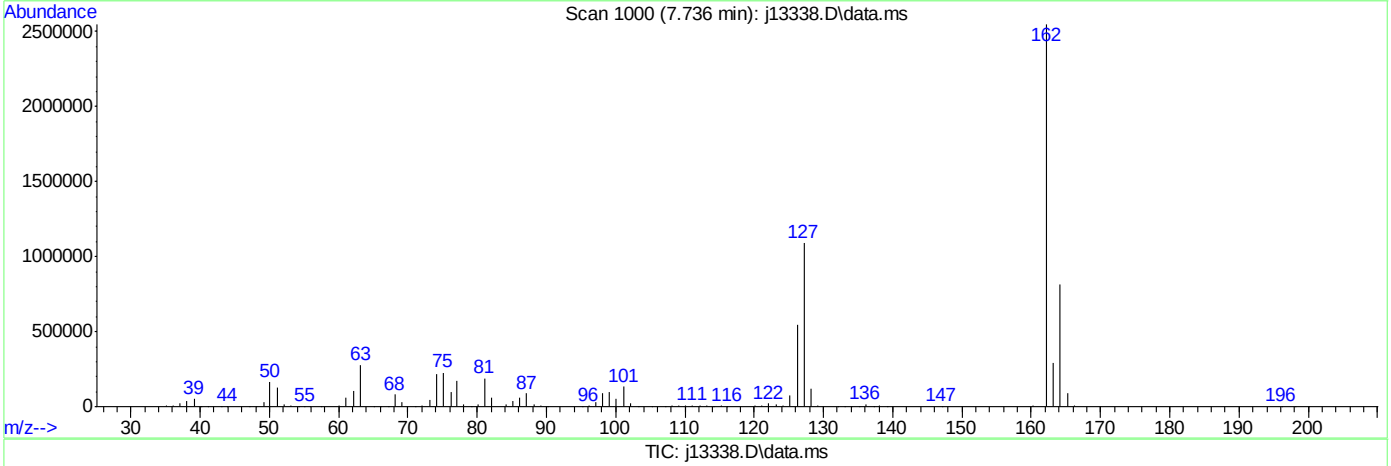
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	53.58#
77.10	81.90	55.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(41) 2-Chloronaphthalene

7.736min (+0.027) 99.50ug/ml

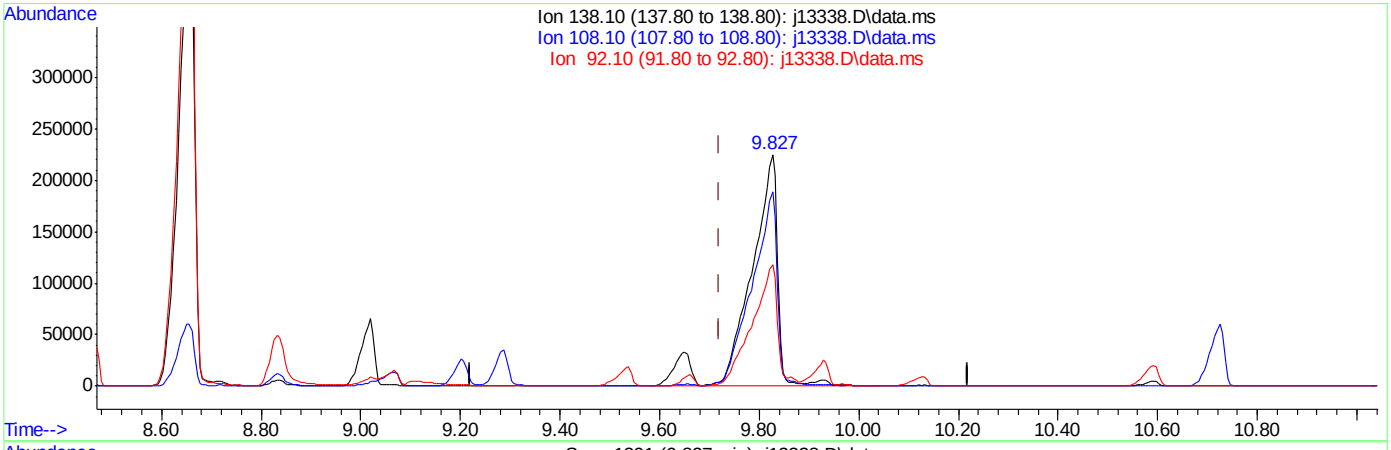
response 3944428

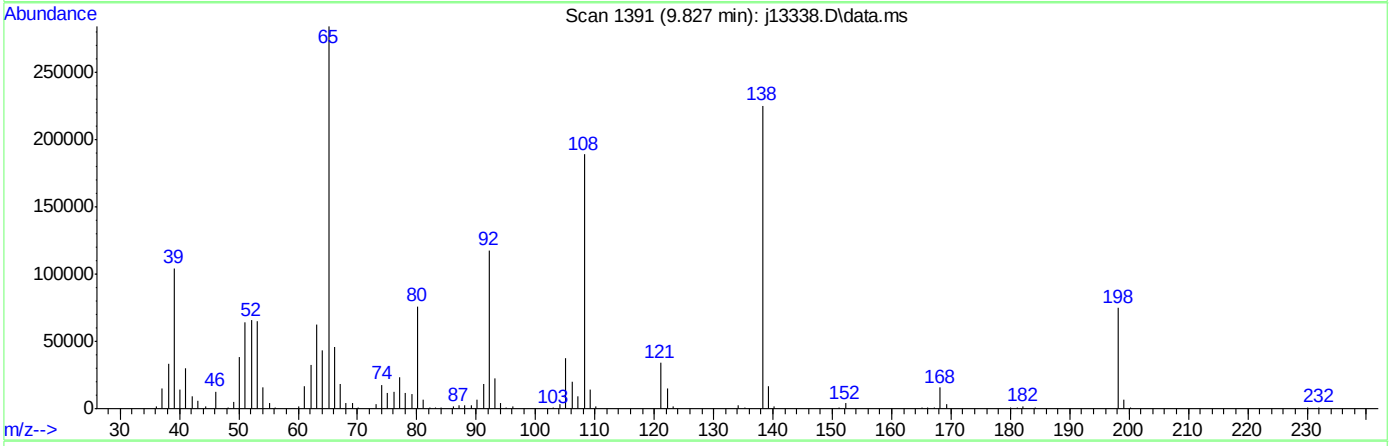
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.10
127.10	42.60	42.92
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(56) 4-Nitroaniline

9.827min (+0.107) 116.71ug/ml m

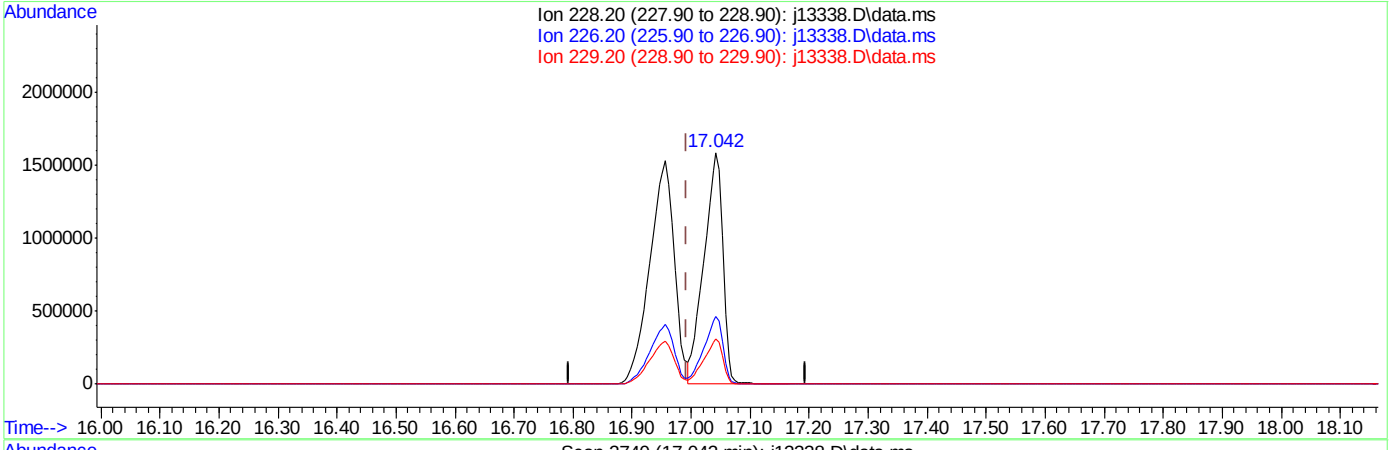
response 879310

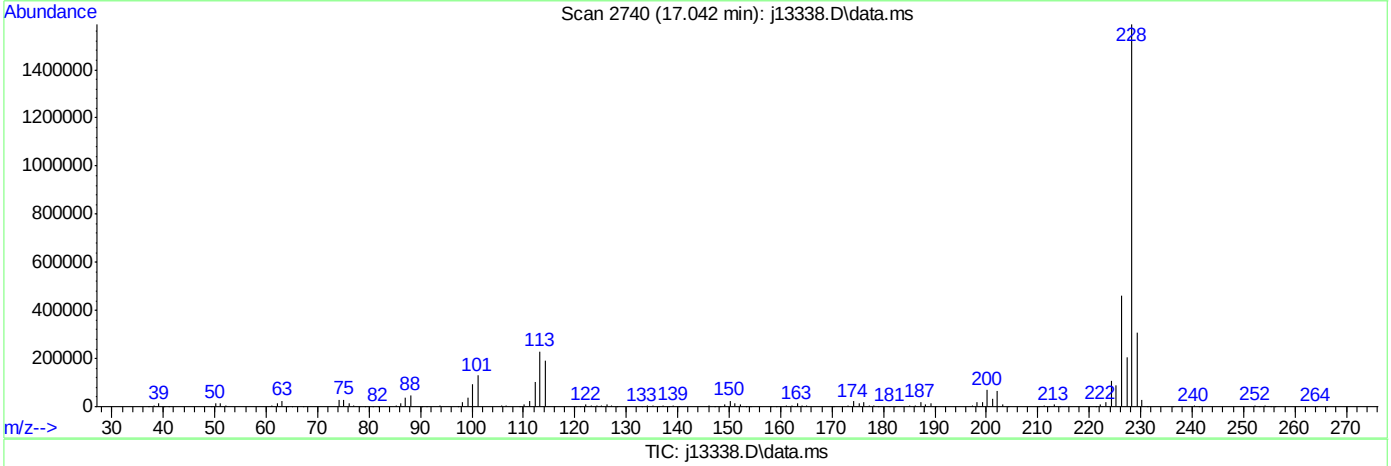
Ion	Exp%	Act%
138.10	100	100
108.10	87.60	75.04
92.10	53.80	48.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(78) Chrysene

17.042min (+0.048) 91.47ug/ml m

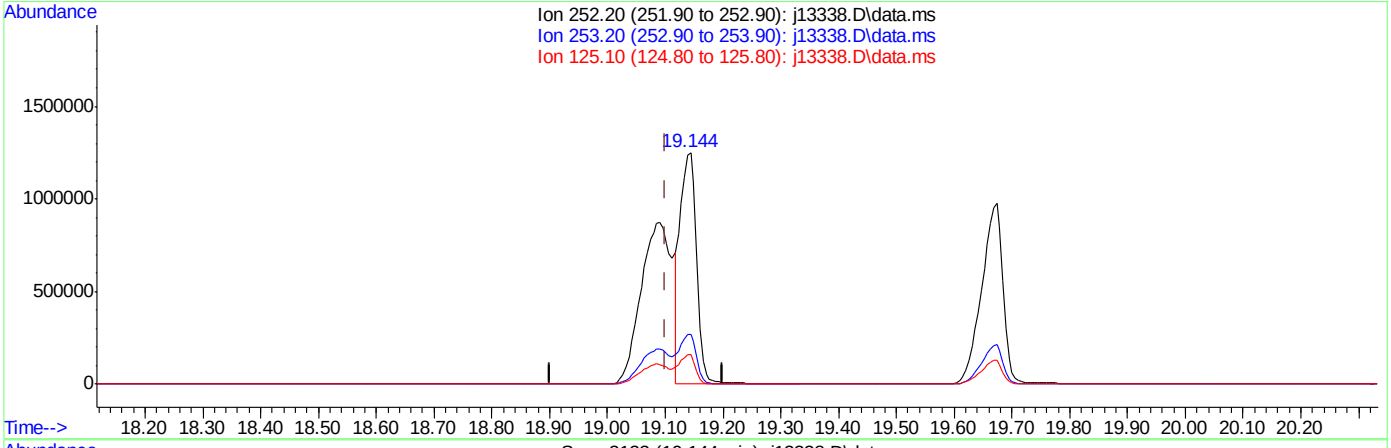
response 3567591

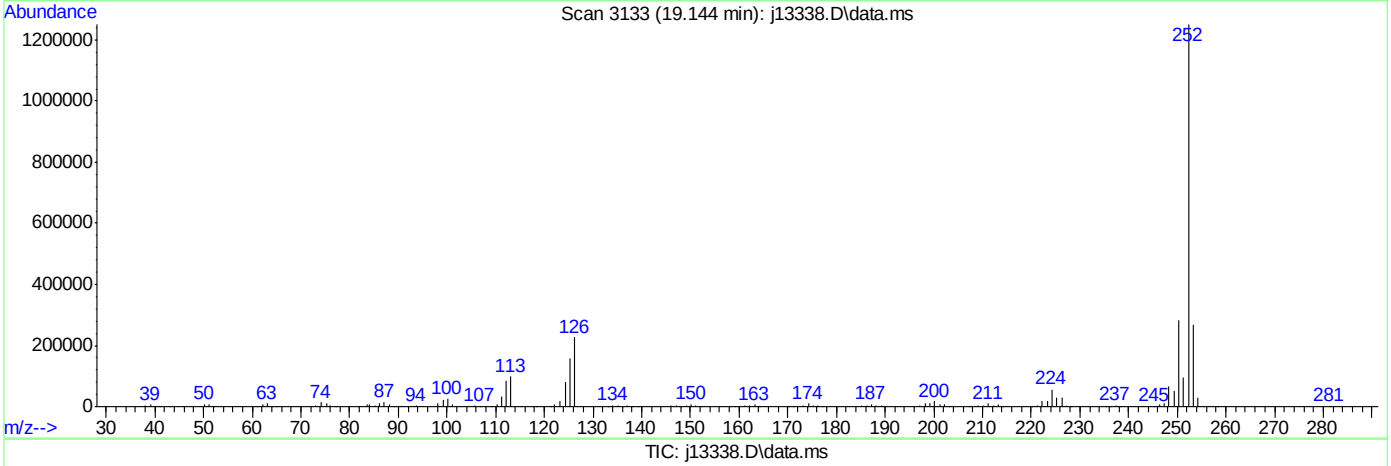
Ion	Exp%	Act%
228.20	100	100
226.20	29.20	33.25
229.20	19.70	24.33
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(83) Benzo(k)fluoranthene

19.144min (+0.043) 94.28ug/ml m

response 2510236

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	26.74
125.10	11.90	14.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	585383	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2197556	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.650	164	1270566	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.453	188	1807408	40.00	ug/ml	0.00
71) Chrysene-d12	16.983	240	1521064	40.00	ug/ml	0.00
80) Perylene-d12	19.765	264	740179	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.879	112	4409261	225.92	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery	= 225.92%#		
5) Phenol-d5 (SURR)	4.676	99	5212509	213.46	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery	= 213.46%#		
21) Nitrobenzene-d5 (SURR)	5.419	82	2797192	115.24	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery	= 230.48%#		
40) 2-Fluorobiphenyl (SURR)	7.570	172	6418422	124.45	ug/ml	0.01
Spiked Amount 50.000	Range 34 - 132		Recovery	= 248.90%#		
62) 2,4,6-Tribromophenol (...	10.142	330	1883746	308.35	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery	= 308.35%#		
74) Terphenyl-d14	14.817	244	4531611	121.28	ug/ml	0.01
Spiked Amount 50.000	Range 46 - 136		Recovery	= 242.56%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	1149377	108.92	ug/ml	98
3) Pyridine	2.633	79	2081159m	111.98	ug/ml	
6) Phenol	4.692	94	2785905	105.44	ug/ml	95
7) Aniline	4.644	93	2984688	113.31	ug/ml	98
8) bis(2-Chloroethyl)ether	4.687	93	2850787	110.53	ug/ml	90
9) 2-Chlorophenol	4.756	128	2349467	115.79	ug/ml	98
10) 1,3-Dichlorobenzene	4.842	146	2641174	114.84	ug/ml	98
11) 1,4-Dichlorobenzene	4.906	146	2854845	116.40	ug/ml	99
12) Benzyl Alcohol	5.072	108	1711365	122.36	ug/ml	98
13) 1,2-Dichlorobenzene	5.045	146	2754757	120.10	ug/ml	99
14) 2-Methylphenol	5.168	108	2182154	119.66	ug/ml	99
15) bis(2-chloroisopropyl)...	5.141	45	3457638	104.33	ug/ml	93
16) 4-Methylphenol	5.323	108	2500507	131.99	ug/ml	98
17) m+p-Cresols	5.323	108	2500507	131.99	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.302	70	2129240	121.88	ug/ml	98
19) Hexachloroethane	5.339	117	1056894	117.69	ug/ml	91
22) Nitrobenzene	5.436	77	2726209	114.01	ug/ml	96
23) Isophorone	5.730	82	5091953m	115.88	ug/ml	
24) 2-Nitrophenol	5.735	139	1503939	142.66	ug/ml	94
25) 2,4-Dimethylphenol	5.826	122	2180346	120.92	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.879	93	2817207	116.74	ug/ml	100
27) Benzoic Acid	6.077	105	1368372m	169.32	ug/ml	
28) 2,4-Dichlorophenol	6.029	162	2084896	134.68	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.072	180	2385102	126.43	ug/ml	99
30) Naphthalene	6.168	128	7552352	121.24	ug/ml	99
31) 4-Chloroaniline	6.238	127	2754946	134.62	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1478219	124.02	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.880	107	2333812	133.26 ug/ml	99
34) 2-Methylnaphthalene	7.024	142	4720009	124.62 ug/ml	99
35) 1-Methylnaphthalene	7.168	142	4958699	125.03 ug/ml	100
37) Hexachlorocyclopentadiene	7.249	237	855974	218.89 ug/ml	99
38) 2,4,6-Trichlorophenol	7.463	196	1448963	131.85 ug/ml	99
39) 2,4,5-Trichlorophenol	7.548	196	1682622	142.02 ug/ml	99
41) 2-Chloronaphthalene	7.741	162	4554027	122.86 ug/ml	100
42) 2-Nitroaniline	7.944	65	1432831	113.61 ug/ml	96
43) Dimethylphthalate	8.286	163	5202999	115.01 ug/ml	100
44) Acenaphthylene	8.420	152	7463277	117.79 ug/ml	100
45) 2,6-Dinitrotoluene	8.372	165	1350009	129.35 ug/ml	97
46) 3-Nitroaniline	8.671	138	1154785	135.10 ug/ml	95
47) Acenaphthene	8.725	154	4465679	120.38 ug/ml	100
48) 2,4-Dinitrophenol	8.848	184	517414	245.02 ug/ml	94
49) 4-Nitrophenol	9.110	65	713297m	136.06 ug/ml	
50) Dibenzofuran	9.024	168	6506890	123.42 ug/ml	100
51) 2,4-Dinitrotoluene	9.078	165	1510372	119.21 ug/ml	86
52) 2,3,4,6-Tetrachlorophenol	9.292	232	1242751	140.55 ug/ml	98
53) Diethylphthalate	9.554	149	5565600	119.14 ug/ml	99
54) Fluorene	9.656	166	5785714	126.38 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.672	204	3055555	137.13 ug/ml	94
56) 4-Nitroaniline	9.854	138	961115m	135.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.982	77	6034221	126.54 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.880	198	796818	125.68 ug/ml	91
60) Diphenylamine	9.944	169	4513504	129.22 ug/ml	98
61) n-Nitrosodiphenylamine	9.944	169	4513504	129.22 ug/ml	98
63) 4-Bromophenyl-phenylether	10.597	248	1522169	128.94 ug/ml	98
64) Hexachlorobenzene	10.736	284	1625789	125.21 ug/ml	98
65) Pentachlorophenol	11.153	266	684175	164.90 ug/ml	98
66) Phenanthrene	11.517	178	6987134	124.07 ug/ml	100
67) Anthracene	11.624	178	6779599	125.13 ug/ml	100
68) Carbazole	11.988	167	5455544	125.41 ug/ml	100
69) Di-n-butylphthalate	12.790	149	8294083	121.14 ug/ml	100
70) Fluoranthene	13.961	202	6273920	121.23 ug/ml	100
72) Benzidine	14.298	184	2026372	194.50 ug/ml	100
73) Pyrene	14.421	202	6309398	113.59 ug/ml	100
75) Butylbenzylphthalate	15.903	149	2821959	111.45 ug/ml	97
76) Benzo(a)anthracene	16.962	228	5268693	117.06 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.967	252	1652656	159.03 ug/ml	98
78) Chrysene	17.053	228	4151967	107.94 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.165	149	3874897	112.99 ug/ml	99
81) Di-n-octylphthalate	18.459	149	5269490	143.78 ug/ml	100
82) Benzo(b)fluoranthene	19.096	252	3373105	134.83 ug/ml	100
83) Benzo(k)fluoranthene	19.149	252	2801070	117.68 ug/ml	99
84) Benzo(a)pyrene	19.679	252	2781130	127.59 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.952	276	1893473	99.26 ug/ml	99
86) Dibenz(a,h)anthracene	21.990	278	1647338	105.11 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1258406	85.18 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

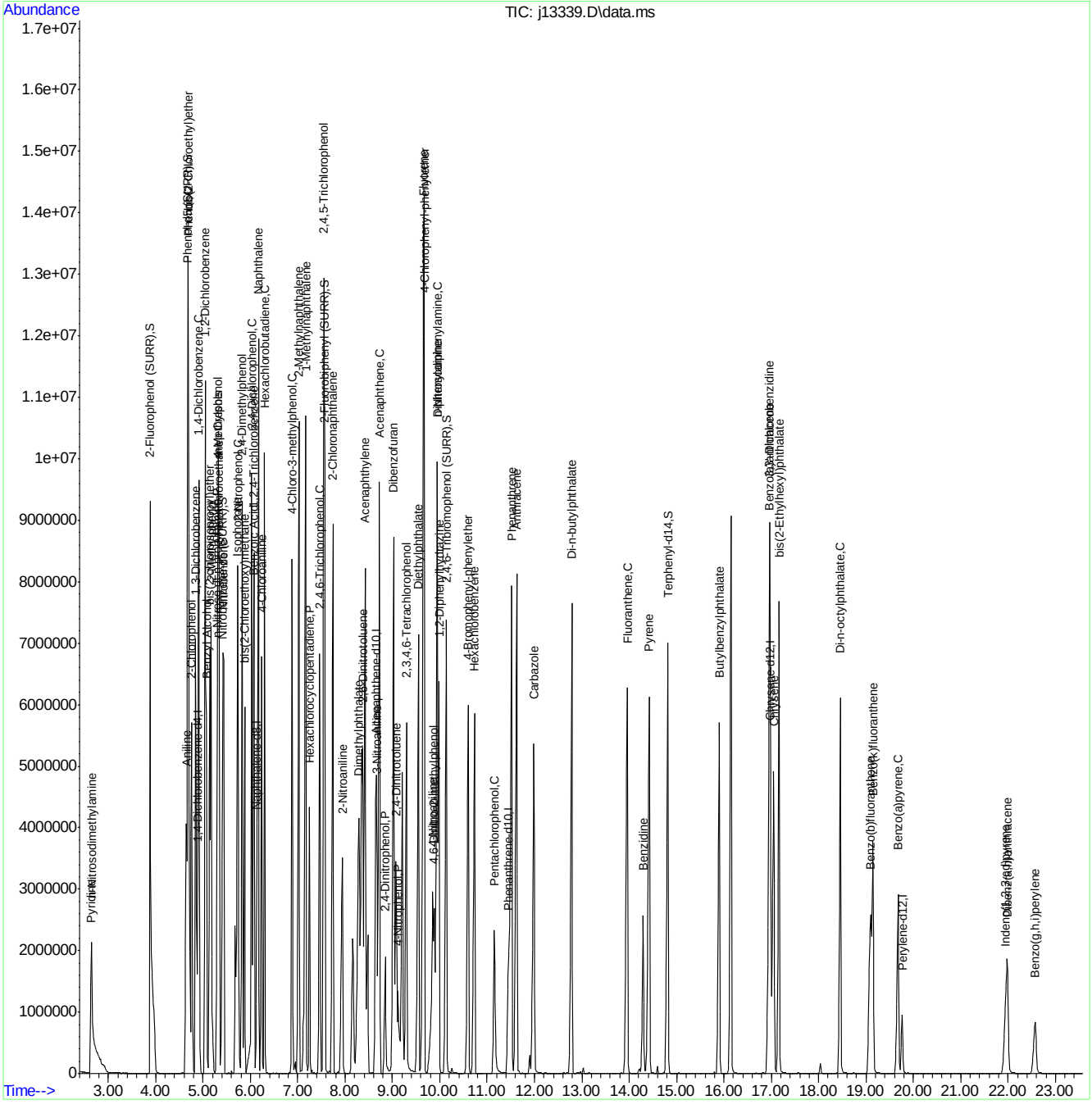
8.6.26

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

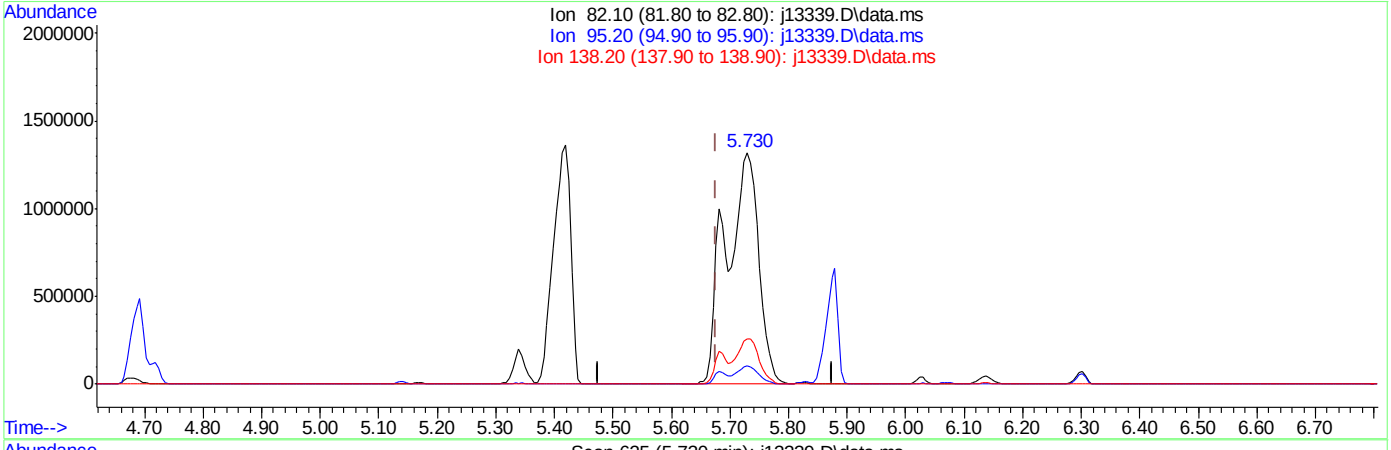


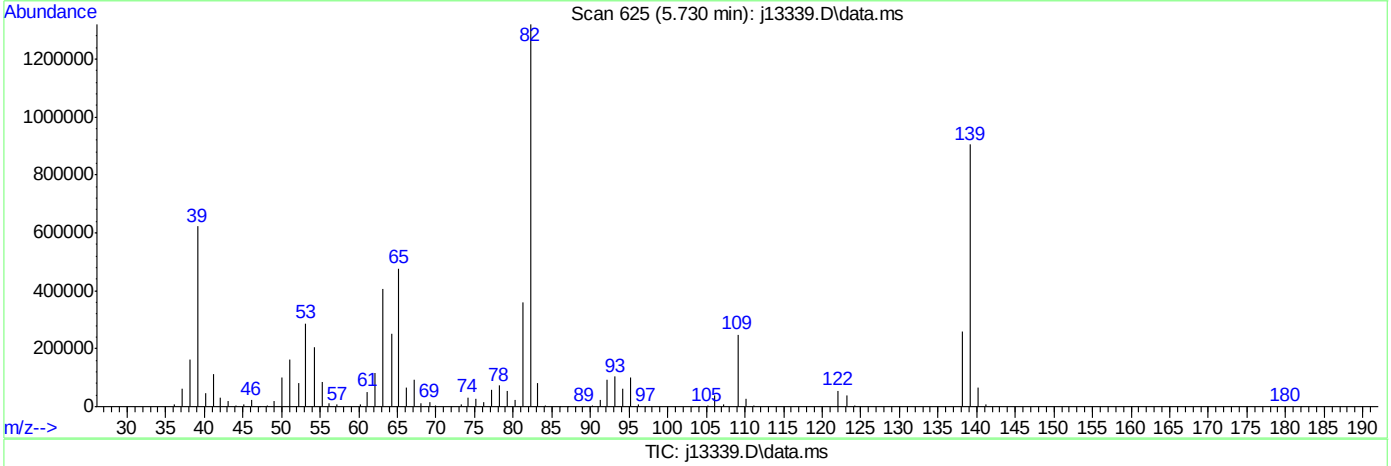
8.6.26
8
1412 of 1607
ACCUTEST Laboratories
T39646

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On    : 23 Sep 2009   1:52 pm
Operator  : sheilac
Sample    : ic615-125
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration
```





TIC: j13339.D\data.ms

(23) Isophorone

5.730min (+0.054) 115.88ug/ml m

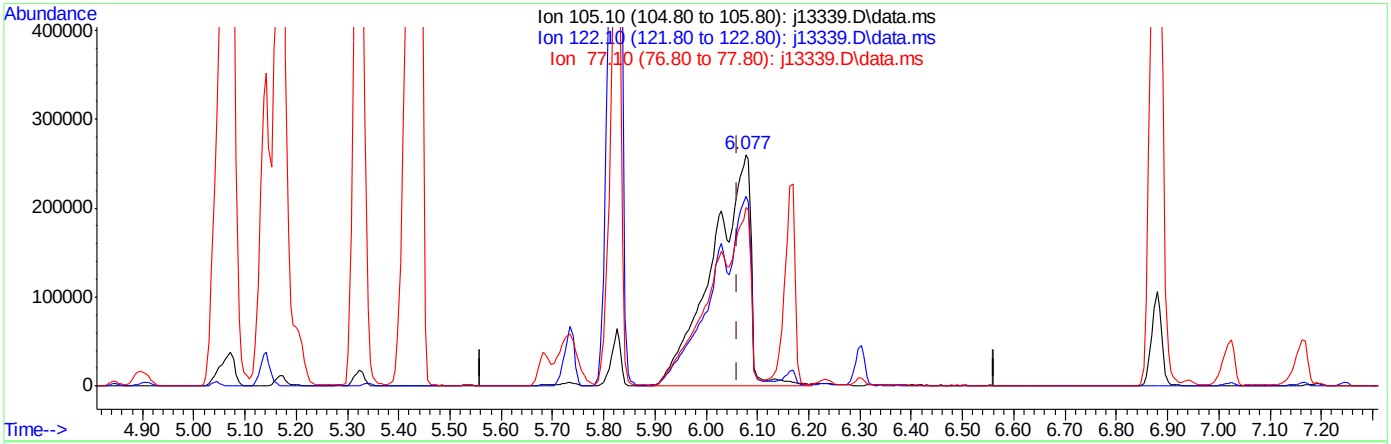
response 5091953

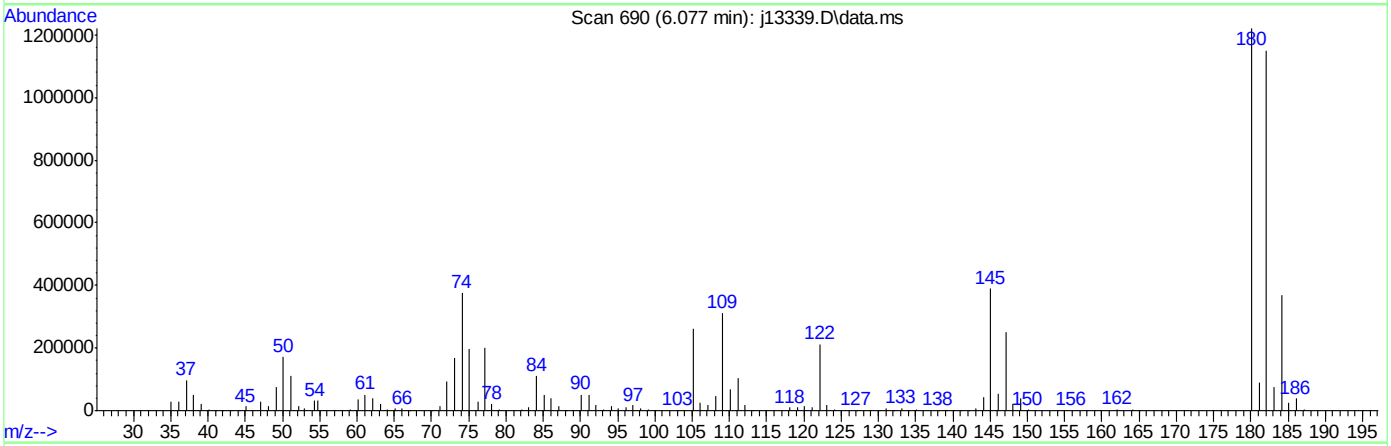
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	2.51
138.20	18.50	5.46
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On    : 23 Sep 2009   1:52 pm
Operator  : sheilac
Sample    : ic615-125
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration
```





TIC: j13339.D\data.ms

(27) Benzoic Acid

6.077min (+0.016) 169.32ug/ml m

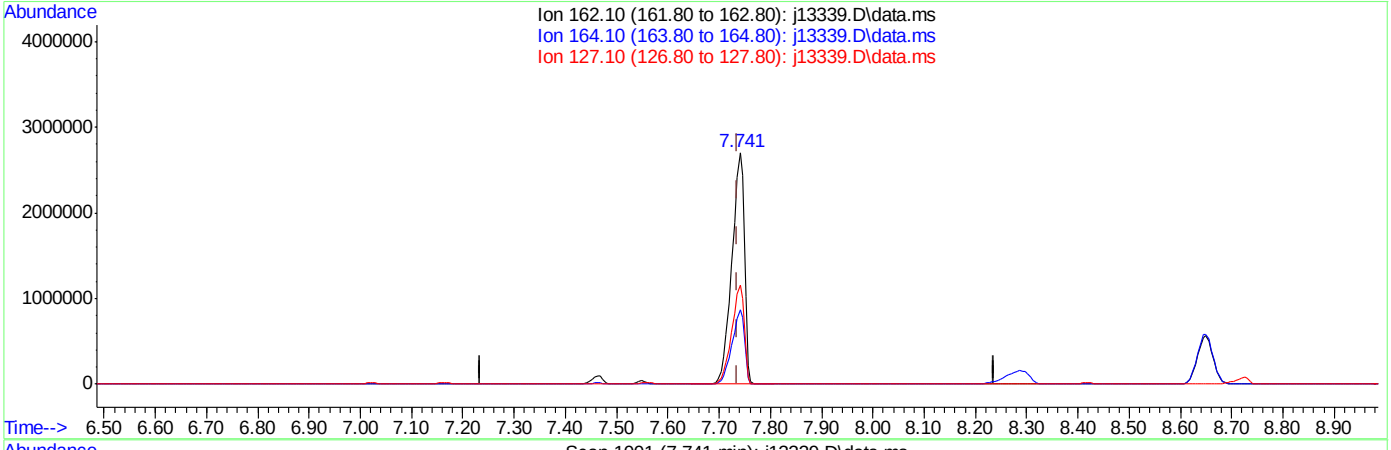
response 1368372

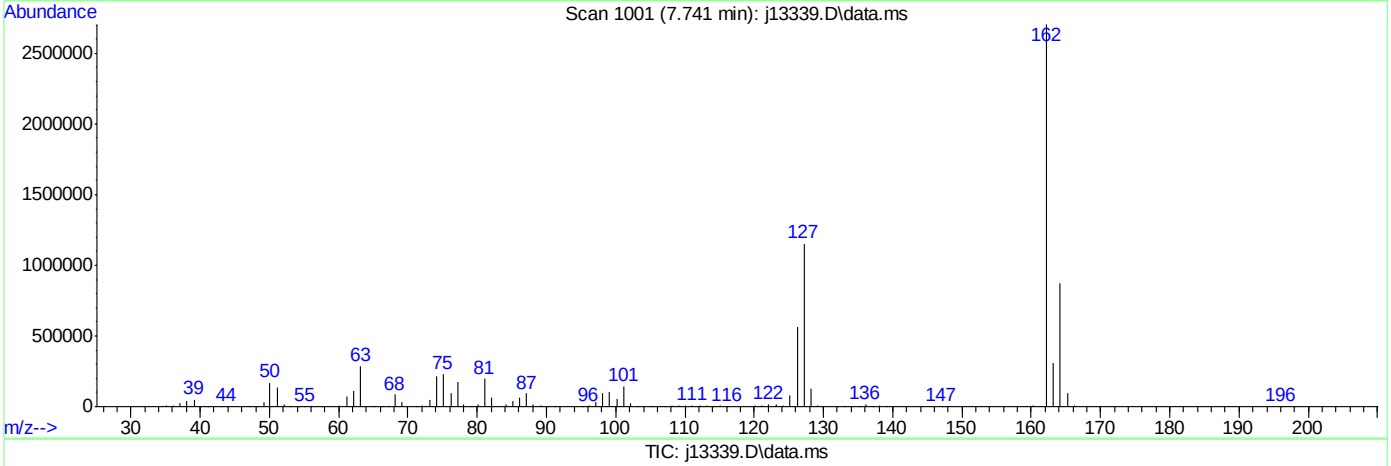
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	34.58#
77.10	81.90	29.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration





TIC: j13339.D\data.ms

(41) 2-Chloronaphthalene

7.741min (+0.005) 122.86ug/ml

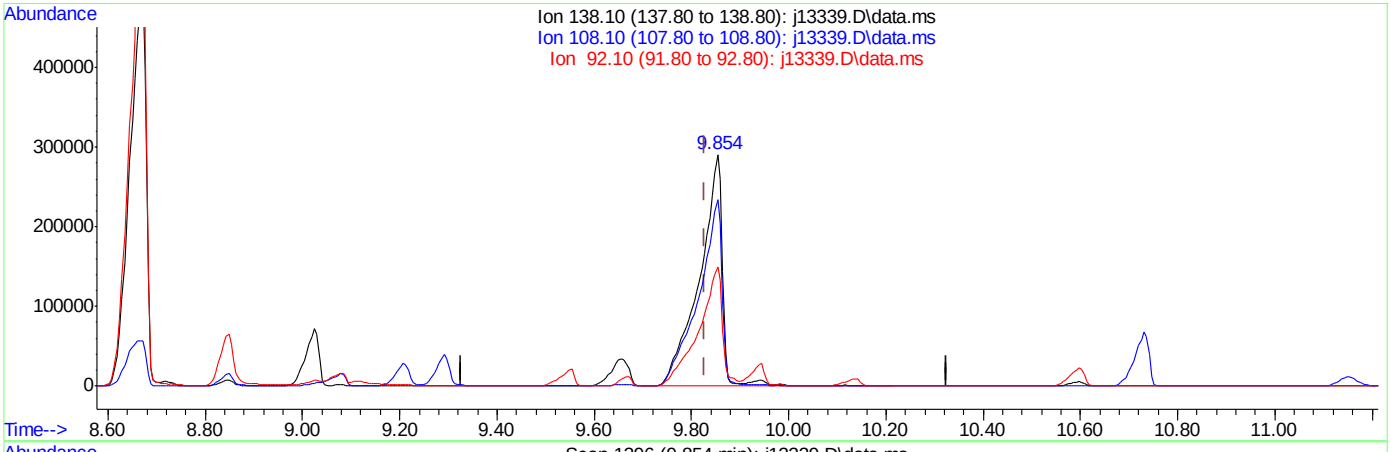
response 4554027

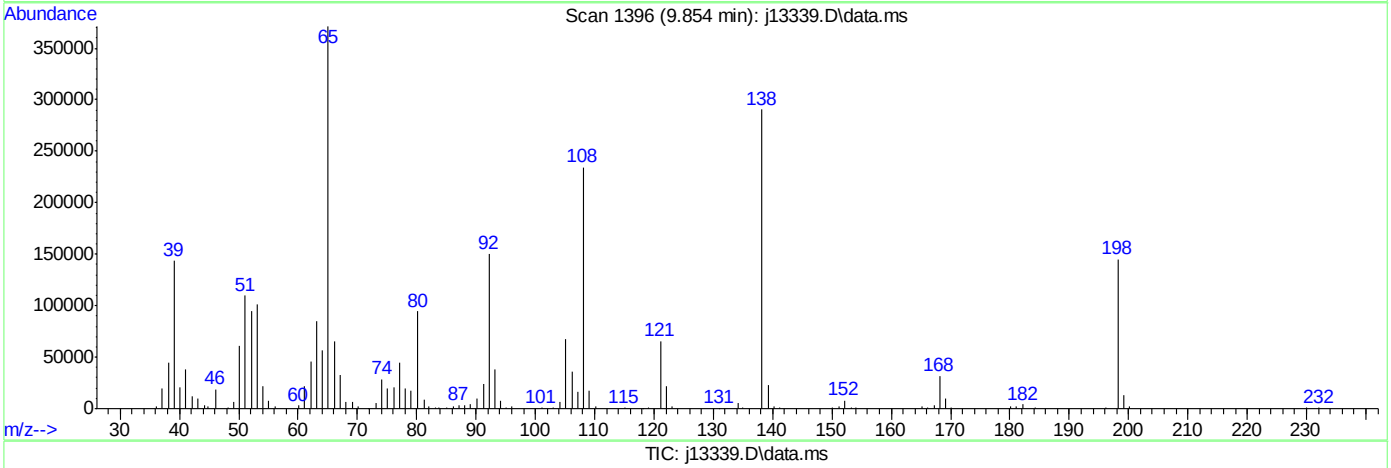
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.17
127.10	42.60	42.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration





TIC: j13339.D\data.ms

(56) 4-Nitroaniline

9.854min (+0.027) 135.71ug/ml m

response 961115

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	80.63
92.10	53.80	51.79
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	461236	40.00	ug/ml	0.00
20) Naphthalene-d8	6.126	136	1686287	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.629	164	946091	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.431	188	1359018	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	856385	40.00	ug/ml	0.00
80) Perylene-d12	19.743	264	501153	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.884	112	1558957	105.73	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 105.73%			
5) Phenol-d5 (SURR)	4.660	99	2023930	109.92	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 109.92%			
21) Nitrobenzene-d5 (SURR)	5.393	82	940895	52.38	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 104.76%			
40) 2-Fluorobiphenyl (SURR)	7.543	172	1971856	52.66	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 105.32%			
62) 2,4,6-Tribromophenol (...	10.094	330	481903	92.30	ug/ml	0.00
Spiked Amount 100.000	Range 33 - 138		Recovery = 92.30%			
74) Terphenyl-d14	14.785	244	1196072	57.46	ug/ml	0.00
Spiked Amount 50.000	Range 46 - 136		Recovery = 114.92%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.644	74	404135	51.41	ug/ml	100
3) Pyridine	2.628	79	756386m	54.44	ug/ml	
6) Phenol	4.671	94	1097489	55.12	ug/ml	97
7) Aniline	4.633	93	1112956	54.92	ug/ml	100
8) bis(2-Chloroethyl)ether	4.676	93	1008150	52.01	ug/ml	99
9) 2-Chlorophenol	4.746	128	808970	52.33	ug/ml	99
10) 1,3-Dichlorobenzene	4.837	146	919693	52.53	ug/ml	98
11) 1,4-Dichlorobenzene	4.901	146	978333	52.23	ug/ml	100
12) Benzyl Alcohol	5.040	108	576781	53.62	ug/ml	99
13) 1,2-Dichlorobenzene	5.034	146	934973	53.13	ug/ml	100
14) 2-Methylphenol	5.157	108	715697	51.33	ug/ml	99
15) bis(2-chloroisopropyl)...	5.131	45	1247327	50.49	ug/ml	98
16) 4-Methylphenol	5.302	108	749225	50.82	ug/ml	100
17) m+p-Cresols	5.302	108	749225	50.82	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.270	70	681414	50.93	ug/ml	99
19) Hexachloroethane	5.334	117	361101	52.66	ug/ml	99
22) Nitrobenzene	5.414	77	918307	52.06	ug/ml	99
23) Isophorone	5.650	82	1657403	51.10	ug/ml	100
24) 2-Nitrophenol	5.719	139	420875	51.96	ug/ml	99
25) 2,4-Dimethylphenol	5.794	122	737762	54.96	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.853	93	920486	51.60	ug/ml	100
27) Benzoic Acid	5.997	105	408391	52.32	ug/ml	98
28) 2,4-Dichlorophenol	6.008	162	618763	52.49	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.061	180	747748	52.69	ug/ml	100
30) Naphthalene	6.147	128	2459992	52.83	ug/ml	100
31) 4-Chloroaniline	6.216	127	862670	51.04	ug/ml	99
32) Hexachlorobutadiene	6.291	225	464561	52.06	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	700084	52.60 ug/ml	100
34) 2-Methylnaphthalene	7.008	142	1516238	53.19 ug/ml	100
35) 1-Methylnaphthalene	7.147	142	1586652	53.15 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	246812	55.51 ug/ml	100
38) 2,4,6-Trichlorophenol	7.441	196	419453	52.25 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	457253	47.46 ug/ml	99
41) 2-Chloronaphthalene	7.719	162	1398043	52.04 ug/ml	100
42) 2-Nitroaniline	7.907	65	471184	52.08 ug/ml	99
43) Dimethylphthalate	8.233	163	1661437	51.33 ug/ml	100
44) Acenaphthylene	8.388	152	2382872	52.31 ug/ml	100
45) 2,6-Dinitrotoluene	8.313	165	387919	51.01 ug/ml	100
46) 3-Nitroaniline	8.613	138	348781	47.20 ug/ml	99
47) Acenaphthene	8.693	154	1391119	51.94 ug/ml	100
48) 2,4-Dinitrophenol	8.795	184	123145	51.92 ug/ml	95
49) 4-Nitrophenol	9.099	65	207433	44.32 ug/ml	98
50) Dibenzofuran	8.992	168	1998425	52.22 ug/ml	100
51) 2,4-Dinitrotoluene	9.019	165	481536	52.78 ug/ml#	74
52) 2,3,4,6-Tetrachlorophenol	9.265	232	355433	47.43 ug/ml	99
53) Diethylphthalate	9.490	149	1734419	51.59 ug/ml	100
54) Fluorene	9.618	166	1745709	52.30 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.634	204	842525	46.98 ug/ml	100
56) 4-Nitroaniline	9.741	138	284633	44.93 ug/ml	99
58) 1,2-Diphenylhydrazine	9.939	77	1776163	50.52 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.795	198	217020	48.93 ug/ml	96
60) Diphenylamine	9.886	169	1339354	51.73 ug/ml	100
61) n-Nitrosodiphenylamine	9.886	169	1339354	51.73 ug/ml	100
63) 4-Bromophenyl-phenylether	10.570	248	450275	51.57 ug/ml	100
64) Hexachlorobenzene	10.699	284	479983	50.41 ug/ml	99
65) Pentachlorophenol	11.132	266	161111	46.03 ug/ml	99
66) Phenanthrene	11.480	178	2105928	51.05 ug/ml	100
67) Anthracene	11.581	178	2022587	50.99 ug/ml	99
68) Carbazole	11.950	167	1621277	50.79 ug/ml	100
69) Di-n-butylphthalate	12.763	149	2444478	49.56 ug/ml	100
70) Fluoranthene	13.924	202	1814289	48.70 ug/ml	100
72) Benzidine	14.266	184	416528	52.20 ug/ml#	99
73) Pyrene	14.384	202	1804608	58.56 ug/ml	100
75) Butylbenzylphthalate	15.876	149	731555	53.60 ug/ml	100
76) Benzo(a)anthracene	16.924	228	1242635	50.67 ug/ml	100
77) 3,3'-Dichlorobenzidine	16.930	252	238525	46.22 ug/ml	98
78) Chrysene	17.005	228	1065718	51.53 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.144	149	888769	48.71 ug/ml	100
81) Di-n-octylphthalate	18.427	149	1216864	45.71 ug/ml	100
82) Benzo(b)fluoranthene	19.053	252	850243	50.62 ug/ml	100
83) Benzo(k)fluoranthene	19.107	252	817969	52.68 ug/ml	99
84) Benzo(a)pyrene	19.642	252	734678	50.97 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.925	276	659599	51.20 ug/ml	100
86) Dibenz(a,h)anthracene	21.952	278	543474	51.01 ug/ml	99
87) Benzo(g,h,i)perylene	22.541	276	509745	51.92 ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

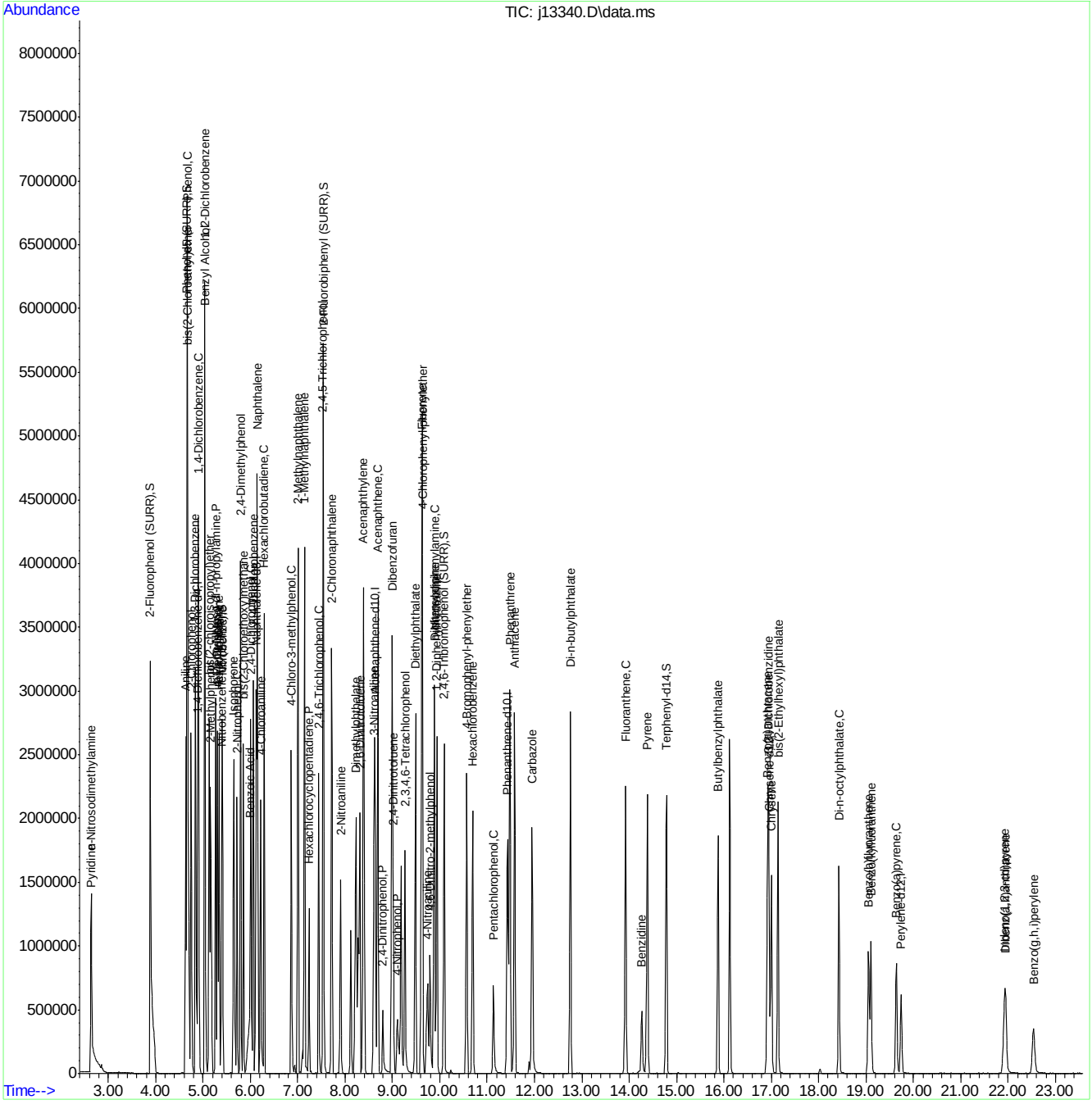
8.6.27

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On    : 23 Sep 2009   2:21 pm
Operator  : sheilac
Sample    : icc615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration
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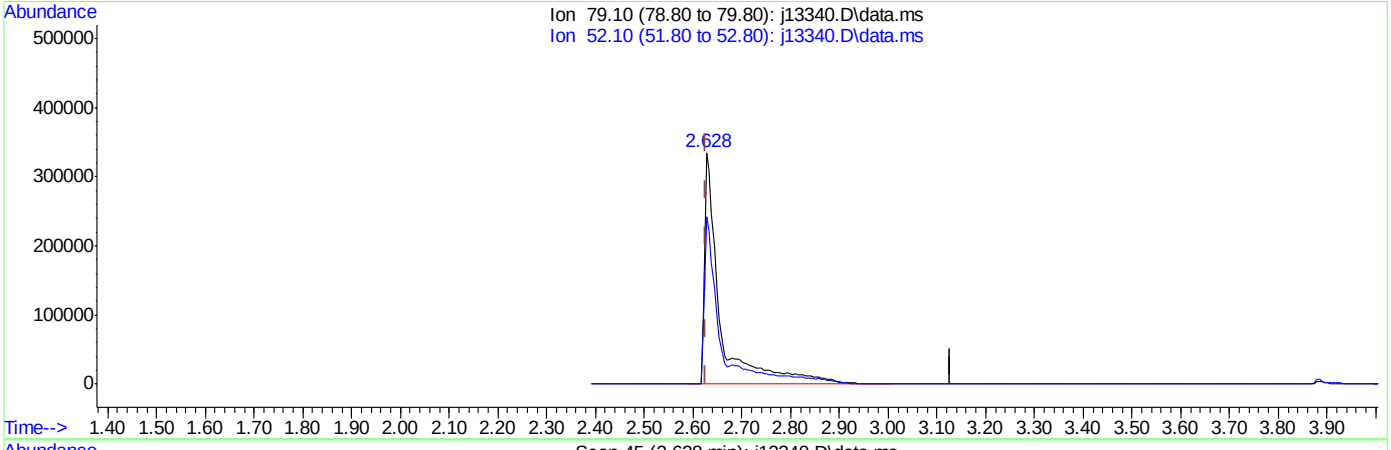
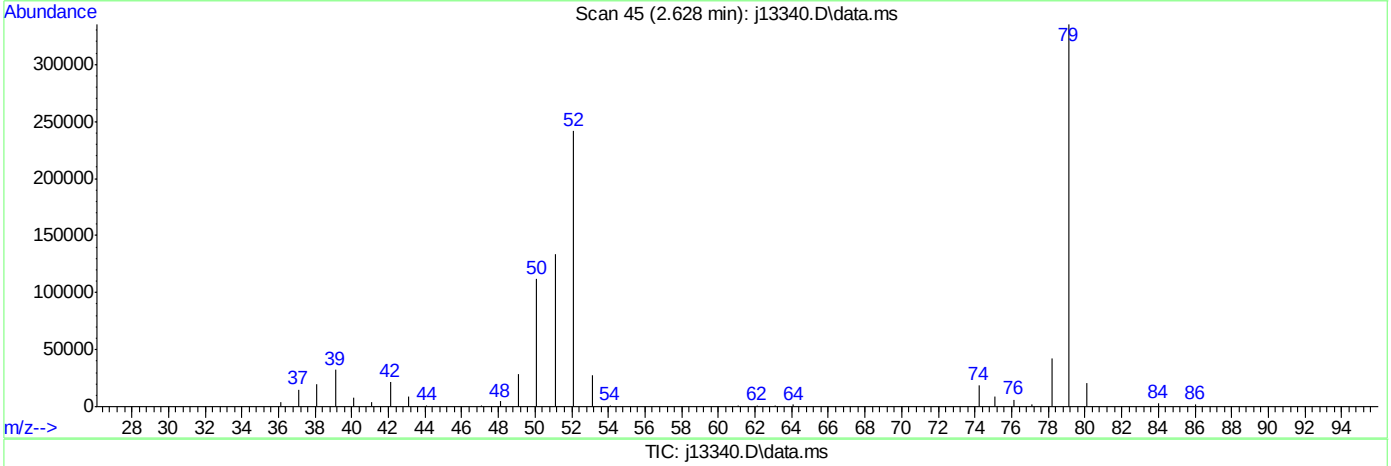




TIC: j13340.D\data.ms

(3) Pyridine

2.628min (0.000) 54.44ug/ml m

response 756386

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	49.17
0.00	0.00	0.00
0.00	0.00	0.00

J13341.D

Manual Integrations APPROVED (compounds with "m" flag)

Richard Rodriguez 09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	374315	40.00	ug/ml	0.00
20) Naphthalene-d8	6.126	136	1353306	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.629	164	751195	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.431	188	1132175	40.00	ug/ml	0.00
71) Chrysene-d12	16.962	240	991058	40.00	ug/ml	0.01
80) Perylene-d12	19.754	264	638555	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.879	112	1894428	158.32	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 158.32%#			
5) Phenol-d5 (SURR)	4.660	99	2441450	163.39	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 163.39%#			
21) Nitrobenzene-d5 (SURR)	5.398	82	1134846	78.73	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 157.46%#			
40) 2-Fluorobiphenyl (SURR)	7.543	172	2390811	80.41	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 160.82%#			
62) 2,4,6-Tribromophenol (...	10.100	330	616122	136.25	ug/ml	0.00
Spiked Amount 100.000	Range 33 - 138		Recovery = 136.25%			
74) Terphenyl-d14	14.796	244	1816247	75.39	ug/ml	0.01
Spiked Amount 50.000	Range 46 - 136		Recovery = 150.78%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	500333	78.42	ug/ml	99
3) Pyridine	2.617	79	928595m	82.36	ug/ml	
6) Phenol	4.671	94	1328119	82.20	ug/ml	99
7) Aniline	4.633	93	1292394	78.58	ug/ml	100
8) bis(2-Chloroethyl)ether	4.676	93	1282033	81.49	ug/ml	97
9) 2-Chlorophenol	4.746	128	973793	77.63	ug/ml	99
10) 1,3-Dichlorobenzene	4.837	146	1106973	77.91	ug/ml	99
11) 1,4-Dichlorobenzene	4.901	146	1170470	76.99	ug/ml	100
12) Benzyl Alcohol	5.040	108	701259	80.33	ug/ml	98
13) 1,2-Dichlorobenzene	5.034	146	1130967	79.20	ug/ml	100
14) 2-Methylphenol	5.157	108	867781	76.69	ug/ml	99
15) bis(2-chloroisopropyl)...	5.131	45	1519576	75.80	ug/ml	98
16) 4-Methylphenol	5.302	108	906062	75.72	ug/ml	100
17) m+p-Cresols	5.302	108	906062	75.72	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.270	70	831565	76.58	ug/ml	100
19) Hexachloroethane	5.334	117	433972	77.98	ug/ml	98
22) Nitrobenzene	5.414	77	1111680	78.52	ug/ml	99
23) Isophorone	5.649	82	2020520	77.62	ug/ml	100
24) 2-Nitrophenol	5.719	139	502227	77.26	ug/ml	99
25) 2,4-Dimethylphenol	5.799	122	893161	82.91	ug/ml	100
26) bis(2-Chloroethoxy)met...	5.858	93	1122751	78.42	ug/ml	100
27) Benzoic Acid	6.003	105	448099	69.71	ug/ml	99
28) 2,4-Dichlorophenol	6.008	162	748994	79.16	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.061	180	896398	78.70	ug/ml	100
30) Naphthalene	6.147	128	2971305	79.51	ug/ml	100
31) 4-Chloroaniline	6.216	127	1033722	75.23	ug/ml	98
32) Hexachlorobutadiene	6.291	225	562628	78.56	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	861966	80.69 ug/ml	99
34) 2-Methylnaphthalene	7.008	142	1817192	79.44 ug/ml	100
35) 1-Methylnaphthalene	7.147	142	1898349	79.25 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	273951	73.97 ug/ml	100
38) 2,4,6-Trichlorophenol	7.441	196	514099	80.68 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	566275	72.18 ug/ml	100
41) 2-Chloronaphthalene	7.719	162	1685874	79.04 ug/ml	100
42) 2-Nitroaniline	7.912	65	574646	80.00 ug/ml	99
43) Dimethylphthalate	8.238	163	2035622	79.21 ug/ml	100
44) Acenaphthylene	8.393	152	2901360	80.21 ug/ml	100
45) 2,6-Dinitrotoluene	8.318	165	479040	79.33 ug/ml	99
46) 3-Nitroaniline	8.618	138	430186	73.62 ug/ml	99
47) Acenaphthene	8.693	154	1684474	79.21 ug/ml	100
48) 2,4-Dinitrophenol	8.800	184	167022	78.52 ug/ml	96
49) 4-Nitrophenol	9.094	65	256890	69.21 ug/ml	99
50) Dibenzofuran	8.998	168	2437534	80.21 ug/ml	100
51) 2,4-Dinitrotoluene	9.030	165	600888	82.94 ug/ml#	75
52) 2,3,4,6-Tetrachlorophenol	9.265	232	435375	72.44 ug/ml	99
53) Diethylphthalate	9.495	149	2144555	80.34 ug/ml	100
54) Fluorene	9.624	166	2171737	81.94 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.640	204	1054776	72.84 ug/ml	100
56) 4-Nitroaniline	9.757	138	362431	72.61 ug/ml	99
58) 1,2-Diphenylhydrazine	9.944	77	2183261	74.54 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.805	198	289601	74.97 ug/ml	97
60) Diphenylamine	9.896	169	1649915	76.50 ug/ml	100
61) n-Nitrosodiphenylamine	9.896	169	1649915	76.50 ug/ml	100
63) 4-Bromophenyl-phenylether	10.576	248	562402	77.32 ug/ml	100
64) Hexachlorobenzene	10.704	284	608346	76.70 ug/ml	99
65) Pentachlorophenol	11.132	266	224979	70.39 ug/ml	98
66) Phenanthrene	11.485	178	2693672	78.38 ug/ml	100
67) Anthracene	11.586	178	2637794	79.80 ug/ml	100
68) Carbazole	11.956	167	2156773	81.10 ug/ml	100
69) Di-n-butylphthalate	12.763	149	3329636	81.03 ug/ml	100
70) Fluoranthene	13.935	202	2570056	82.81 ug/ml	100
72) Benzidine	14.272	184	925964	72.57 ug/ml	99
73) Pyrene	14.395	202	2590838	72.65 ug/ml	100
75) Butylbenzylphthalate	15.887	149	1230110	77.88 ug/ml	99
76) Benzo(a)anthracene	16.935	228	2156391	75.98 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.935	252	498192	72.42 ug/ml	99
78) Chrysene	17.021	228	1861570	77.76 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.149	149	1660941	78.66 ug/ml	100
81) Di-n-octylphthalate	18.438	149	2420981	69.16 ug/ml	100
82) Benzo(b)fluoranthene	19.069	252	1689315	78.94 ug/ml	99
83) Benzo(k)fluoranthene	19.123	252	1506373	76.27 ug/ml	99
84) Benzo(a)pyrene	19.658	252	1437318	78.27 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.936	276	1308972	84.18 ug/ml	100
86) Dibenz(a,h)anthracene	21.974	278	1091604	84.74 ug/ml	100
87) Benzo(g,h,i)perylene	22.557	276	974364	82.48 ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

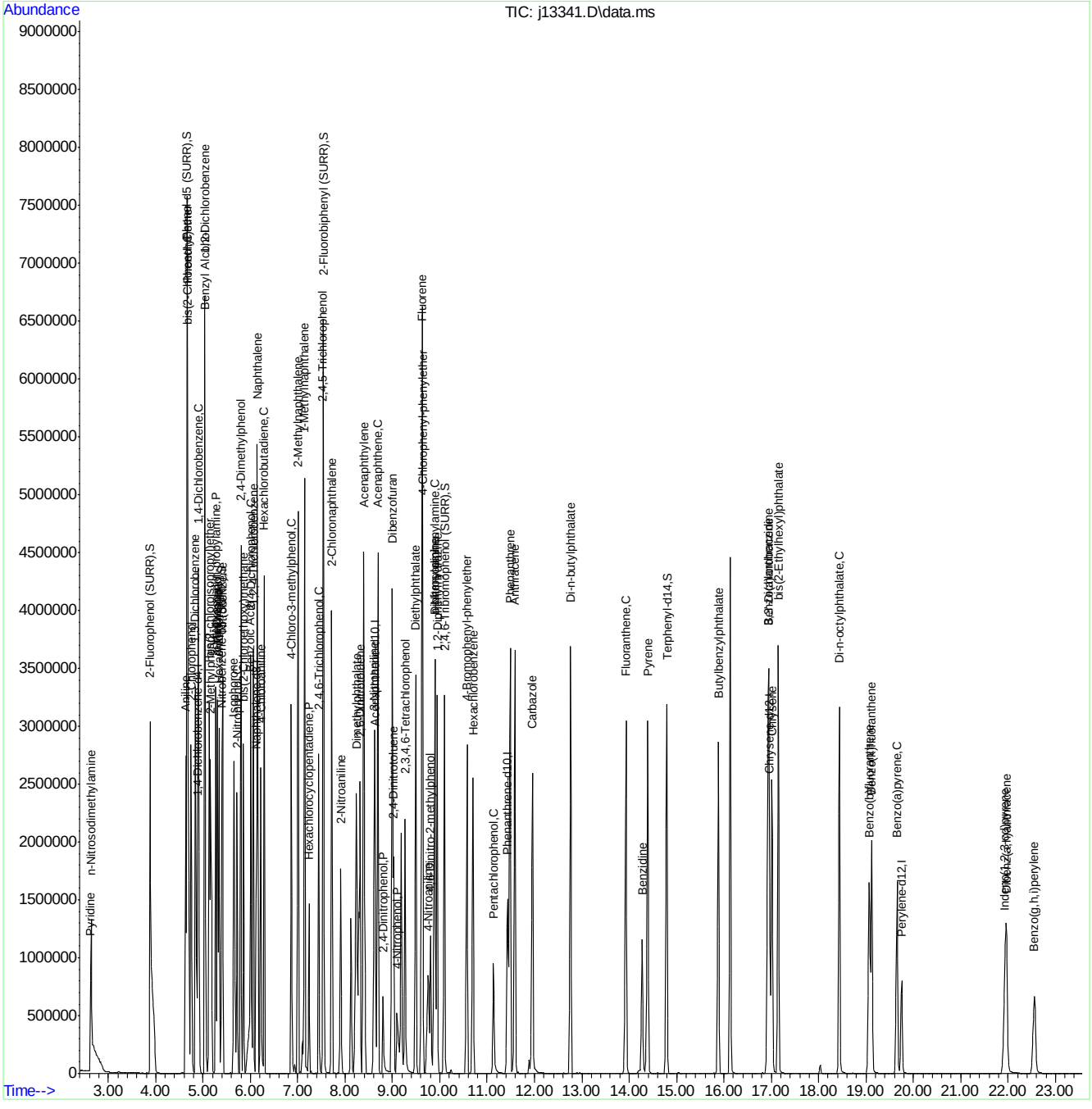
8.6.28

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

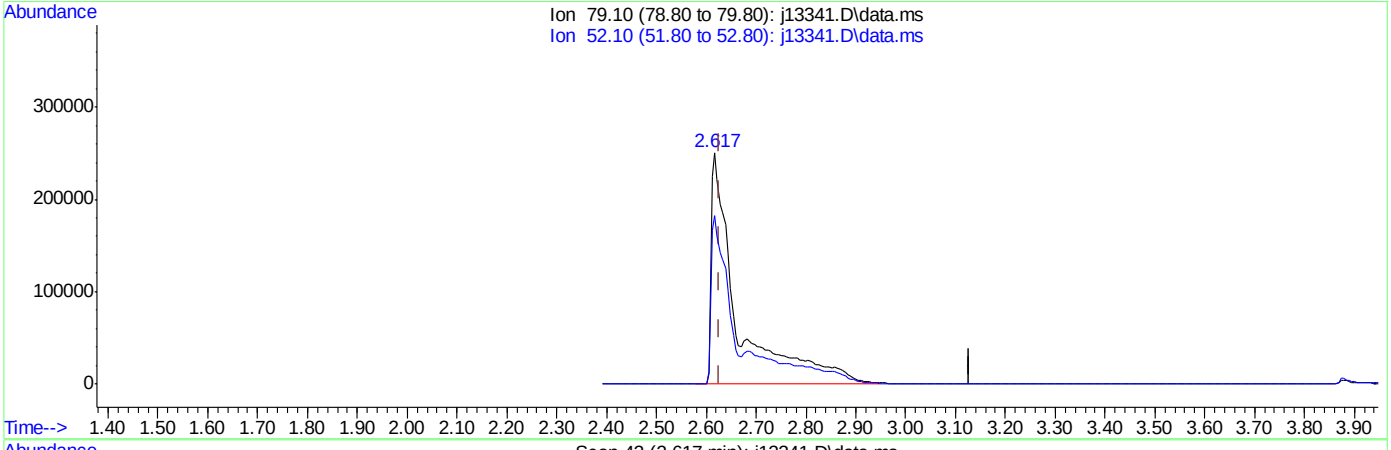


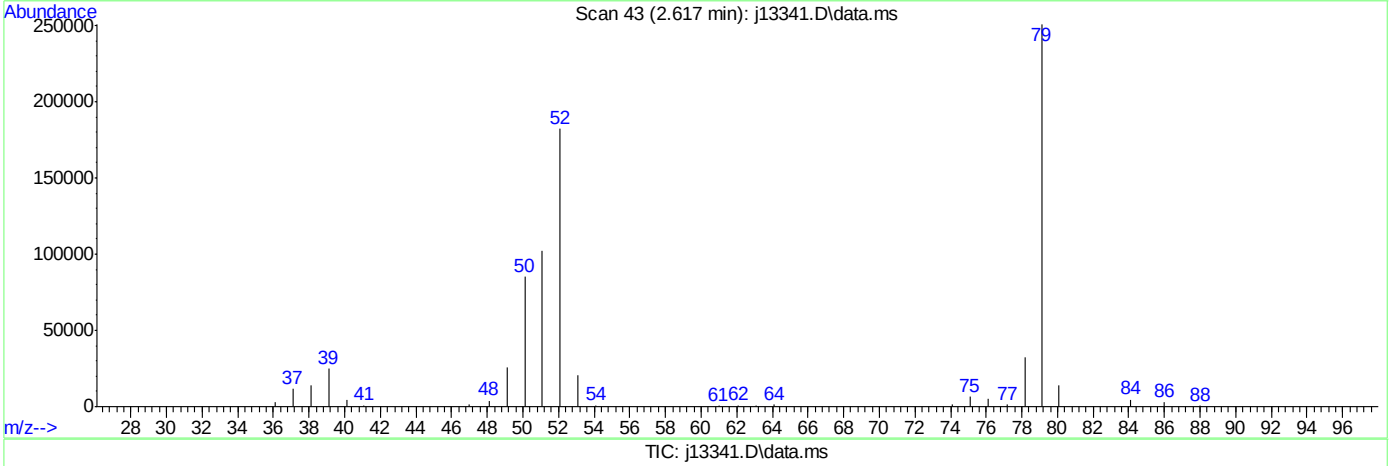
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On    : 23 Sep 2009   2:51 pm
Operator  : sheilac
Sample    : ic615-75
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration
```





(3) Pyridine

2.617min (-0.011) 82.36ug/ml m

response 928595

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	382496	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	1390359	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	717631	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1012187	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	904594	40.00	ug/ml	-0.01
80) Perylene-d12	19.748	264	633901	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 110		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 114		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0d	0.00	ug/ml	
Spiked Amount 50.000	Range 36 - 126		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 132		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 33 - 138		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 46 - 136		Recovery	=	0.00%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	354790	55.19	ug/ml	97
3) Pyridine	2.638	79	583081m	51.40	ug/ml	
6) Phenol	4.687	94	781316	48.13	ug/ml	89
7) Aniline	4.628	93	548944	33.57	ug/ml	94
8) bis(2-Chloroethyl)ether	4.671	93	720071	45.25	ug/ml	97
9) 2-Chlorophenol	4.751	128	615933	48.91	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	685065	48.02	ug/ml	98
11) 1,4-Dichlorobenzene	4.901	146	717693	46.89	ug/ml	100
12) Benzyl Alcohol	5.034	108	438413	49.97	ug/ml	100
13) 1,2-Dichlorobenzene	5.034	146	693178	48.28	ug/ml	100
14) 2-Methylphenol	5.168	108	557746	49.01	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	970715	48.16	ug/ml	100
16) 4-Methylphenol	5.302	108	1189796	98.82	ug/ml	100
17) m+p-Cresols	5.302	108	1189796	98.82	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.259	70	509070	46.61	ug/ml	99
19) Hexachloroethane	5.334	117	270695	48.47	ug/ml	99
22) Nitrobenzene	5.403	77	669860	46.78	ug/ml	100
23) Isophorone	5.644	82	1243348	47.29	ug/ml	100
24) 2-Nitrophenol	5.719	139	308970	46.93	ug/ml	99
25) 2,4-Dimethylphenol	5.794	122	484882	44.53	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	686829	47.40	ug/ml	100
27) Benzoic Acid	5.976	105	270392	45.34	ug/ml	100
28) 2,4-Dichlorophenol	6.008	162	453402	47.34	ug/ml	100
29) 1,2,4-Trichlorobenzene	6.056	180	521921	45.29	ug/ml	100
30) Naphthalene	6.147	128	1823133	48.14	ug/ml	99
31) 4-Chloroaniline	6.216	127	300035	23.42	ug/ml	98
32) Hexachlorobutadiene	6.291	225	340718	47.09	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

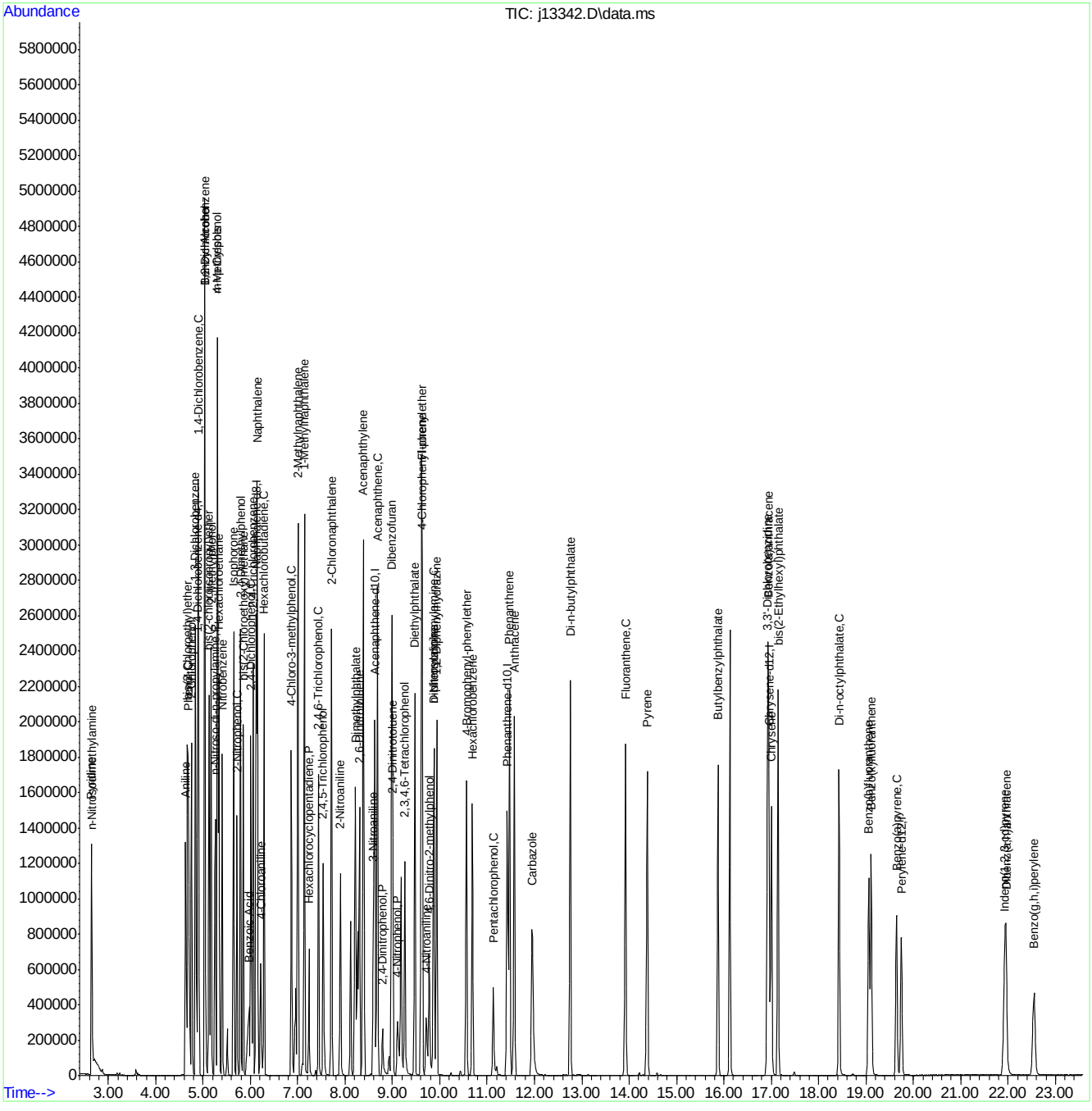
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	512044	47.34 ug/ml	100
34) 2-Methylnaphthalene	7.003	142	1151343	49.77 ug/ml	100
35) 1-Methylnaphthalene	7.142	142	1123966	46.39 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	137587	43.14 ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	306098	51.12 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	303549	42.86 ug/ml	100
41) 2-Chloronaphthalene	7.714	162	1005728	50.16 ug/ml	100
42) 2-Nitroaniline	7.901	65	346793	51.44 ug/ml	99
43) Dimethylphthalate	8.217	163	1211035	50.25 ug/ml	100
44) Acenaphthylene	8.383	152	1737763	51.13 ug/ml	100
45) 2,6-Dinitrotoluene	8.302	165	273967	48.32 ug/ml#	87
46) 3-Nitroaniline	8.597	138	207700	39.80 ug/ml	97
47) Acenaphthene	8.682	154	984362	49.30 ug/ml	100
48) 2,4-Dinitrophenol	8.789	184	68227	39.85 ug/ml	98
49) 4-Nitrophenol	9.099	65	147509	45.27 ug/ml	96
50) Dibenzofuran	8.987	168	1406473	49.31 ug/ml	100
51) 2,4-Dinitrotoluene	9.008	165	338461	49.84 ug/ml#	72
52) 2,3,4,6-Tetrachlorophenol	9.260	232	239567	45.11 ug/ml	98
53) Diethylphthalate	9.474	149	1232296	49.29 ug/ml	100
54) Fluorene	9.613	166	1193461	48.01 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.629	204	576854	45.07 ug/ml	99
56) 4-Nitroaniline	9.714	138	171163m	38.48 ug/ml	
58) 1,2-Diphenylhydrazine	9.934	77	1256859	48.83 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.779	198	143151	44.29 ug/ml	99
60) Diphenylamine	9.875	169	770831	40.69 ug/ml	100
61) n-Nitrosodiphenylamine	9.875	169	770831	40.69 ug/ml	100
63) 4-Bromophenyl-phenylether	10.565	248	310064	48.53 ug/ml	100
64) Hexachlorobenzene	10.688	284	340718	48.94 ug/ml	100
65) Pentachlorophenol	11.126	266	112355	47.08 ug/ml	96
66) Phenanthrene	11.474	178	1464496	48.56 ug/ml	100
67) Anthracene	11.576	178	1419130	48.87 ug/ml	100
68) Carbazole	11.950	167	1027874	43.97 ug/ml	100
69) Di-n-butylphthalate	12.758	149	1828007	50.48 ug/ml	100
70) Fluoranthene	13.924	202	1460296	53.41 ug/ml	100
73) Pyrene	14.384	202	1423169	44.65 ug/ml	100
75) Butylbenzylphthalate	15.876	149	693258	48.84 ug/ml	100
76) Benzo(a)anthracene	16.930	228	1234326	48.50 ug/ml	100
77) 3,3'-Dichlorobenzidine	16.924	252	288549	53.00 ug/ml	98
78) Chrysene	17.005	228	1055240	49.19 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.144	149	910289	47.72 ug/ml	100
81) Di-n-octylphthalate	18.427	149	1349111	41.48 ug/ml	100
82) Benzo(b)fluoranthene	19.058	252	994451	47.47 ug/ml	100
83) Benzo(k)fluoranthene	19.112	252	951064	49.70 ug/ml	100
84) Benzo(a)pyrene	19.647	252	773972	43.27 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.925	276	856080	56.76 ug/ml	100
86) Dibenz(a,h)anthracene	21.957	278	707954	56.56 ug/ml	99
87) Benzo(g,h,i)perylene	22.546	276	660664	57.99 ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On    : 23 Sep 2009   3:21 pm
Operator  : sheilac
Sample    : icv615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 23 16:53:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration
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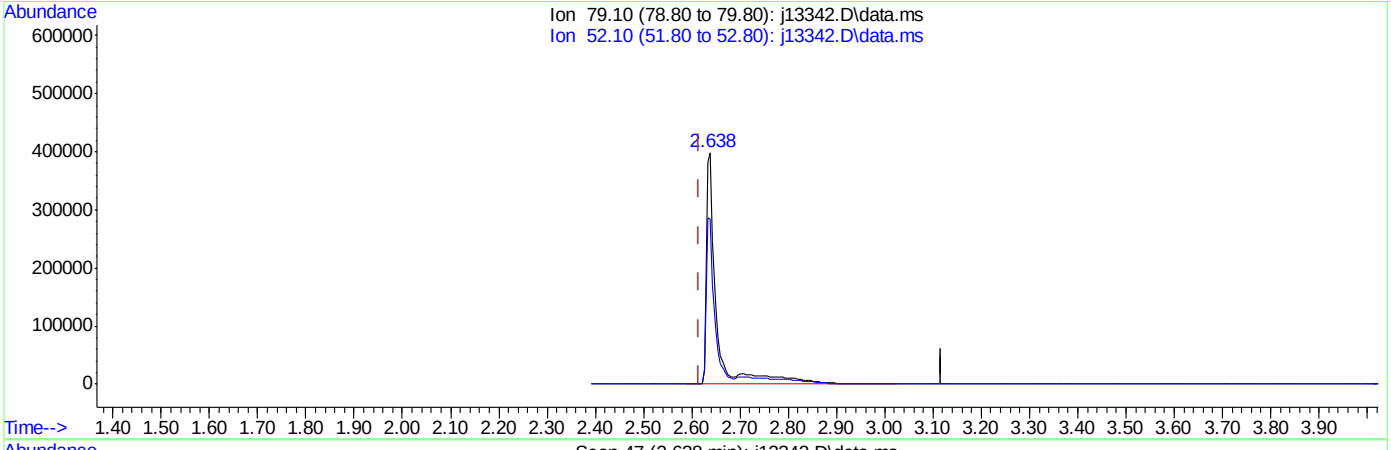

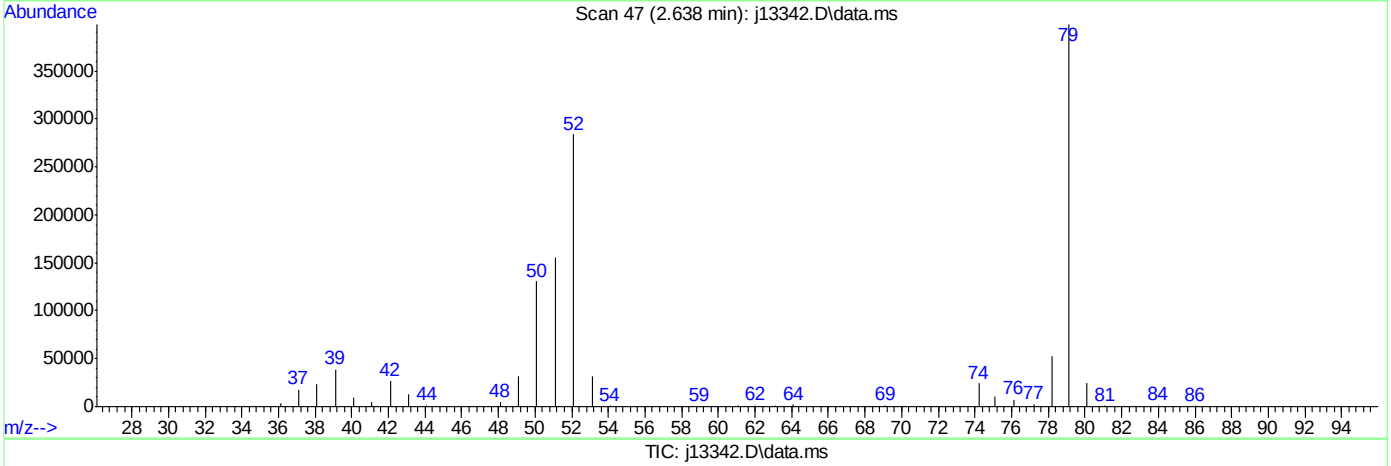

(3) Pyridine

2.638min (+0.021) 51.40ug/ml m

response 583081

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	56.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On    : 23 Sep 2009   3:21 pm
Operator  : sheilac
Sample    : icv615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 23 16:53:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration
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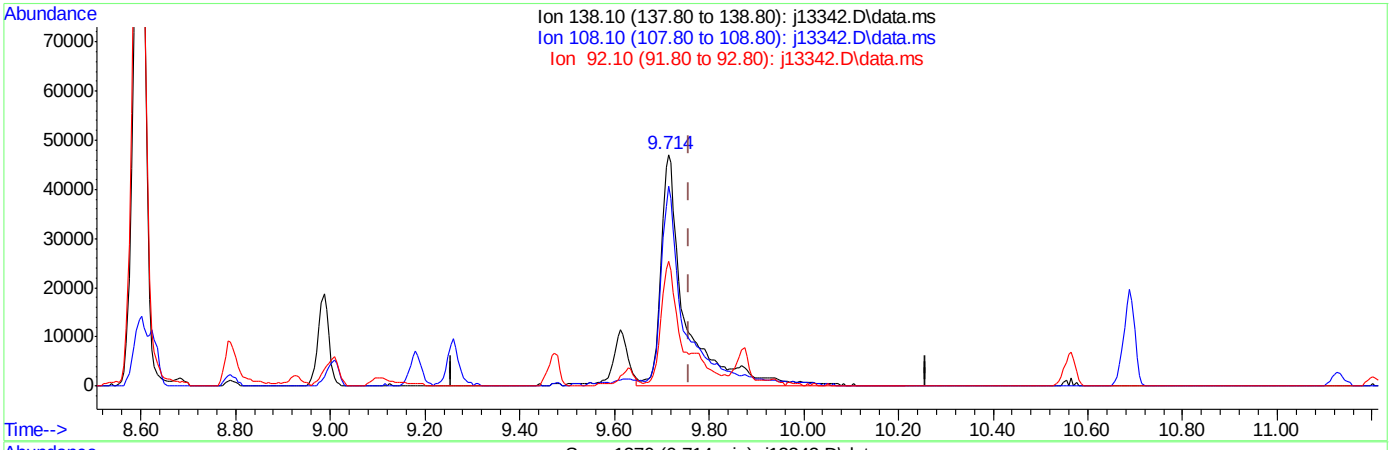
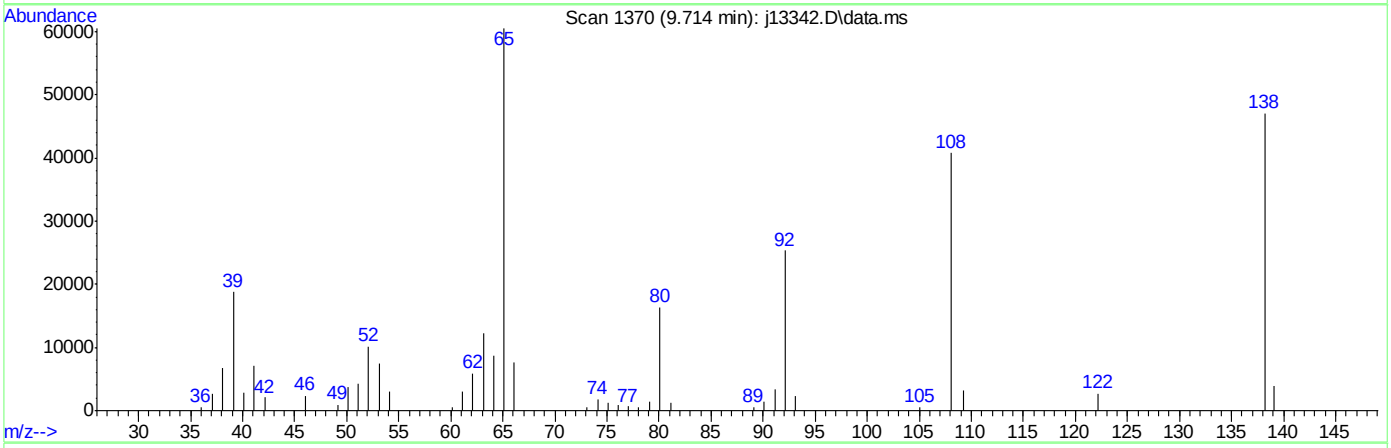




TIC: j13342.D\data.ms

(56) 4-Nitroaniline

9.714min (-0.043) 38.48ug/ml m

response 171163

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	74.30
92.10	53.80	36.28
0.00	0.00	0.00

8.6.29.2

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13689.D
Acq On : 8 Oct 2009 11:20 am
Operator : sheilac
Sample : icc629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:23:53 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	425311	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1500474	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	839398	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1281434	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	790616	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	441409	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.710	112	1616531	114.53	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 114.53%#			
5) Phenol-d5 (SURR)	4.501	99	2054168	132.16	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 132.16%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	927510	60.06	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 120.12%#			
22) 2-Fluorobiphenyl (SURR)	7.341	172	1715397	55.86	ug/ml	0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 111.72%			
28) 2,4,6-Tribromophenol (...	9.855	330	434108	102.90	ug/ml	0.39
Spiked Amount 100.000	Range 32 - 128		Recovery = 102.90%			
35) Terphenyl-d14	14.562	244	1231759	67.57	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 135.14%			
Target Compounds						Qvalue
4) Benzenethiol	4.400	110	805170	74.63	ug/ml	98
19) Resorcinol	6.587	110	543150	56.12	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

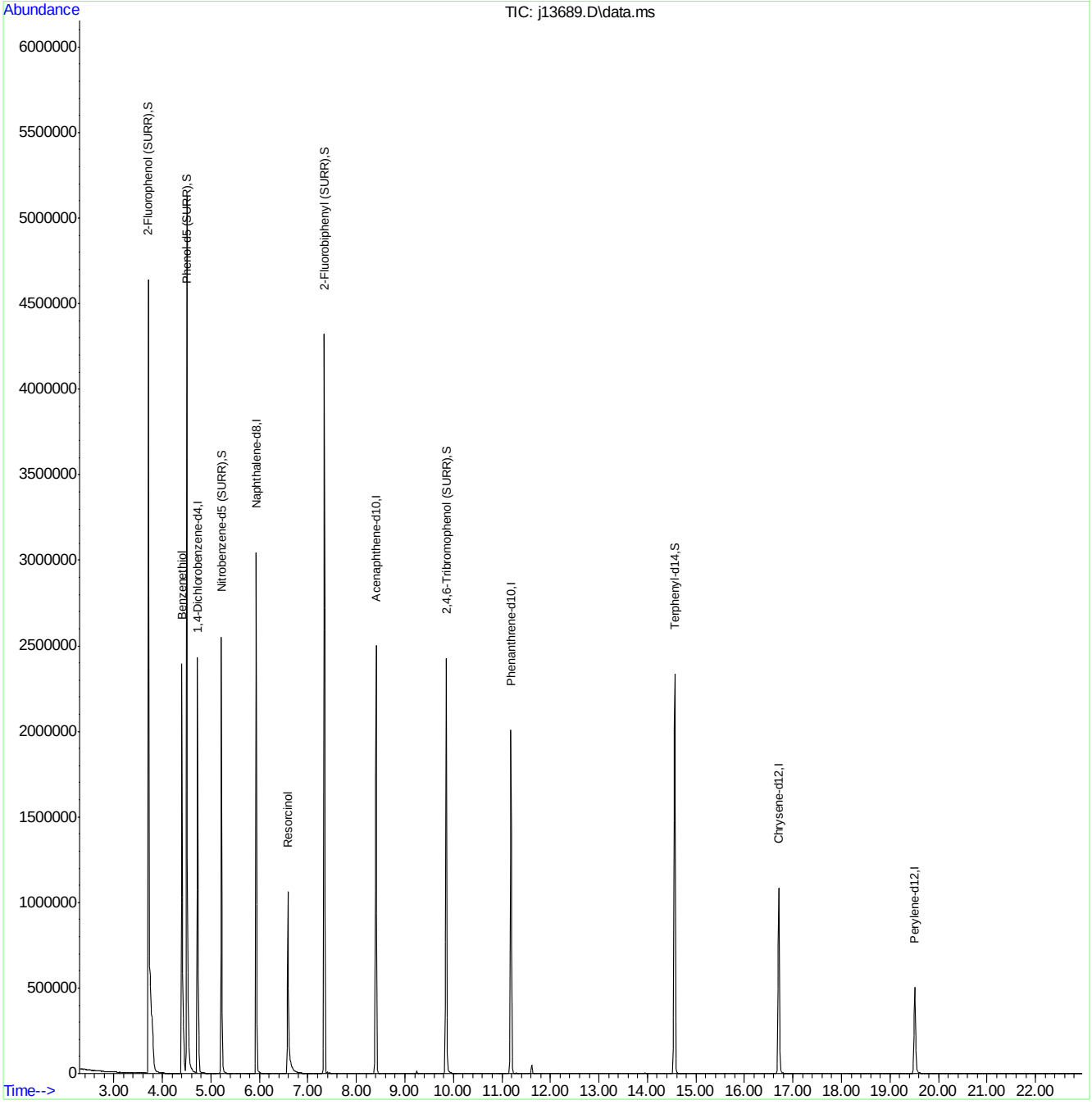
8.6.30

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13689.D
Acq On : 8 Oct 2009 11:20 am
Operator : sheilac
Sample : icc629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:23:53 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13690.D
Acq On : 8 Oct 2009 11:50 am
Operator : sheilac
Sample : ic629-40,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:24:44 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	432948	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1506151	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	806931	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1180761	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	648211	40.00	ug/ml	0.00
40) Perylene-d12	19.509	264	414940	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	1324933	92.21	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 92.21%#			
5) Phenol-d5 (SURR)	4.496	99	1662776	105.09	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 105.09%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	744803	48.05	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 96.10%			
22) 2-Fluorobiphenyl (SURR)	7.336	172	1306323	44.25	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 88.50%			
28) 2,4,6-Tribromophenol (...	9.850	330	299465	77.04	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery = 77.04%			
35) Terphenyl-d14	14.557	244	798114	53.40	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 106.80%			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	675929	61.55	ug/ml	98
19) Resorcinol	6.582	110	421176	43.35	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

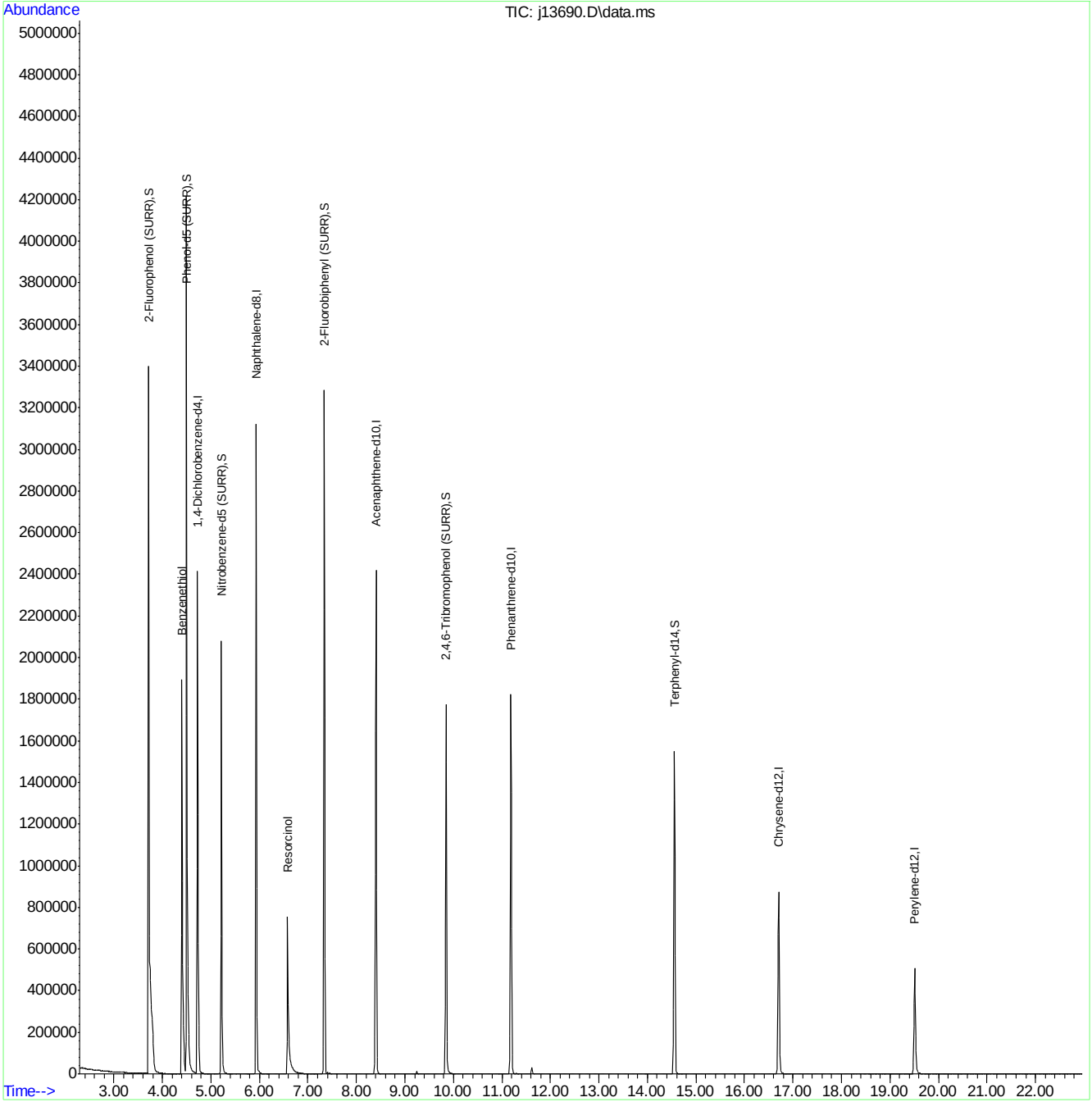
8.6.31

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13690.D
Acq On : 8 Oct 2009 11:50 am
Operator : sheilac
Sample : ic629-40,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:24:44 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13691.D
Acq On : 8 Oct 2009 12:21 pm
Operator : sheilac
Sample : ic629-75,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 14:16:59 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

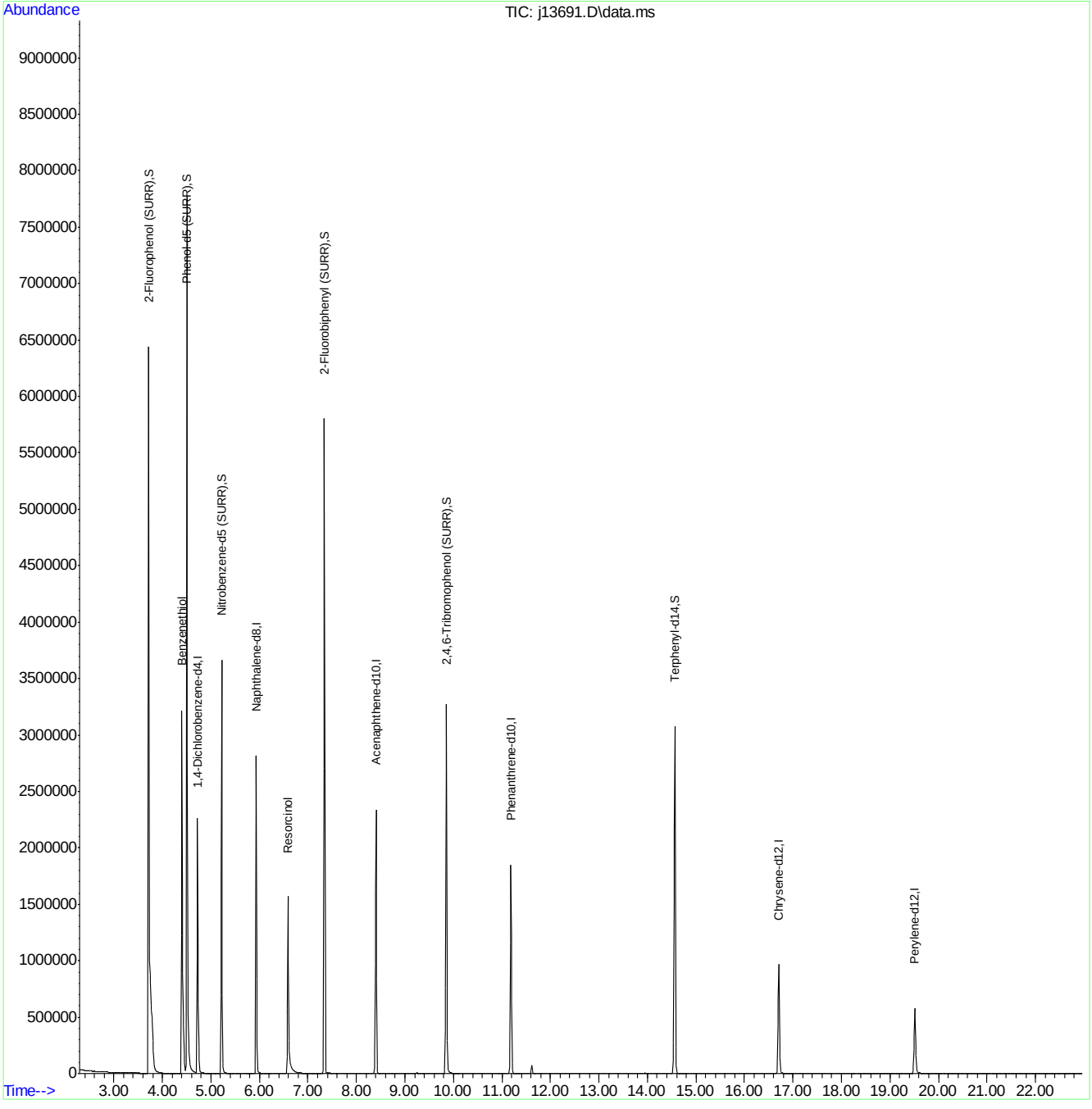
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	407460	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1406886	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	777360	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1151046	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	723943	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	482443	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	2386547	176.49	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 176.49%#			
5) Phenol-d5 (SURR)	4.501	99	3060739	205.55	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 205.55%#			
15) Nitrobenzene-d5 (SURR)	5.223	82	1329809	91.84	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 183.68%#			
22) 2-Fluorobiphenyl (SURR)	7.341	172	2424933	85.27	ug/ml	0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 170.54%#			
28) 2,4,6-Tribromophenol (...	9.861	330	608809	160.66	ug/ml	0.39
Spiked Amount 100.000	Range 32 - 128		Recovery = 160.66%#			
35) Terphenyl-d14	14.567	244	1606294	96.23	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 192.46%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	1143058	110.59	ug/ml	99
19) Resorcinol	6.593	110	773108	85.19	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13691.D
Acq On : 8 Oct 2009 12:21 pm
Operator : sheilac
Sample : ic629-75,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 14:16:59 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On : 8 Oct 2009 12:51 pm
Operator : sheilac
Sample : ic629-5,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	476533	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1652316	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	879587	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1259292	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	748207	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	527433	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.726	112	156403	9.89	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery	=	9.89%#	
5) Phenol-d5 (SURR)	4.501	99	191894	11.02	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	=	11.02%	
15) Nitrobenzene-d5 (SURR)	5.218	82	88157	5.18	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery	=	10.36%#	
22) 2-Fluorobiphenyl (SURR)	7.336	172	153848	4.78	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery	=	9.56%#	
28) 2,4,6-Tribromophenol (...	9.850	330	22833	5.51	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery	=	5.51%#	
35) Terphenyl-d14	14.551	244	91377	5.30	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery	=	10.60%#	
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	77101	6.38	ug/ml#	82
19) Resorcinol	6.619	110	37907m	3.56	ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

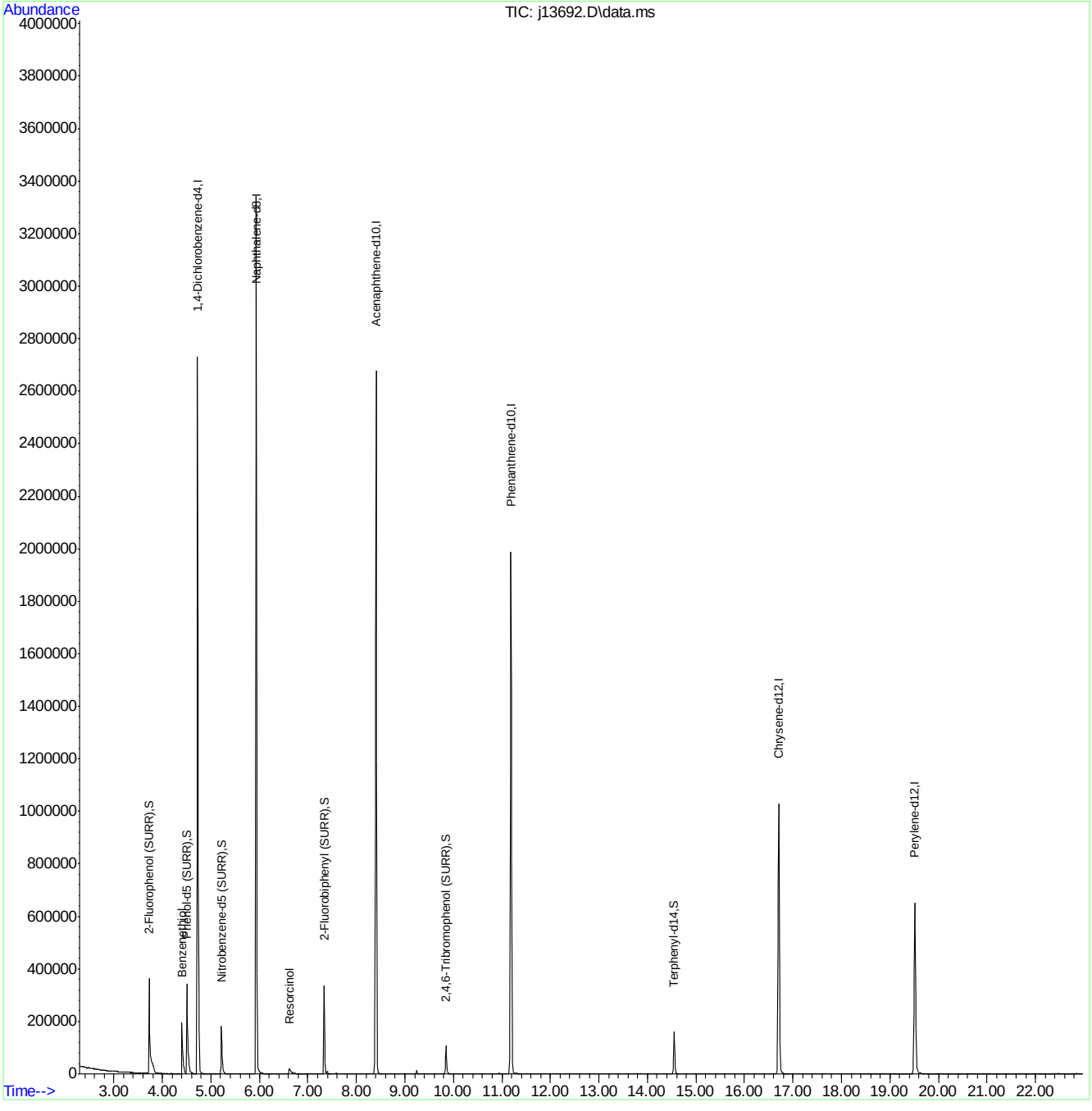
8.6.33

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On : 8 Oct 2009 12:51 pm
Operator : sheilac
Sample : ic629-5,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

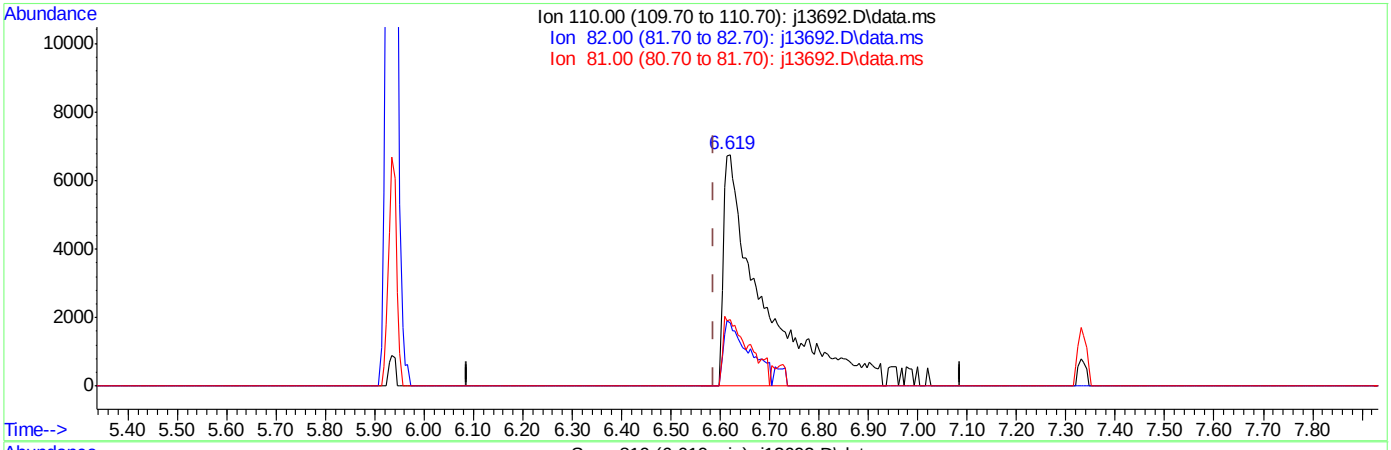


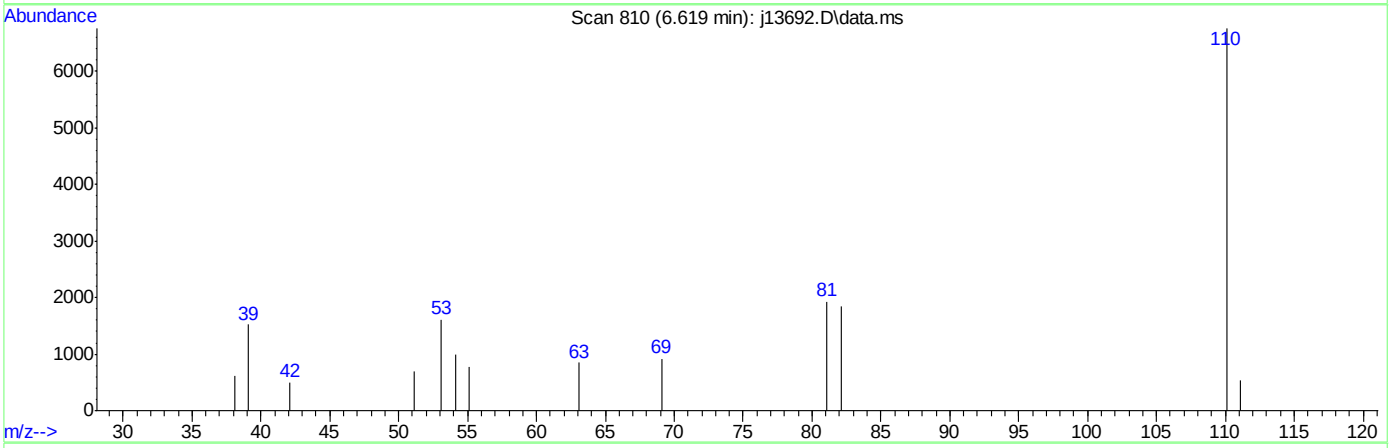
ej629ben+res.m Thu Oct 08 14:53:44 2009 Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On : 8 Oct 2009 12:51 pm
Operator : sheilac
Sample : ic629-5,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration





TIC: j13692.D\data.ms

(19) Resorcinol

6.619min (+0.032) 3.56ug/ml m

response 37907

Ion	Exp%	Act%
110.00	100	100
82.00	27.40	0.00#
81.00	29.10	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13693.D
Acq On : 8 Oct 2009 1:22 pm
Operator : sheilac
Sample : ic629-25,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 14:18:08 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	475641	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1645968	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	892948	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1306835	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	782066	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	535495	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	853637	54.08	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 54.08%			
5) Phenol-d5 (SURR)	4.496	99	1067694	61.43	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 61.43%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	483689	28.55	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 57.10%			
22) 2-Fluorobiphenyl (SURR)	7.336	172	840343	25.72	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 51.44%			
28) 2,4,6-Tribromophenol (...	9.850	330	183130	42.56	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery = 42.56%			
35) Terphenyl-d14	14.557	244	533528	29.59	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 59.18%			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	451801	37.45	ug/ml	98
19) Resorcinol	6.582	110	261625	24.64	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

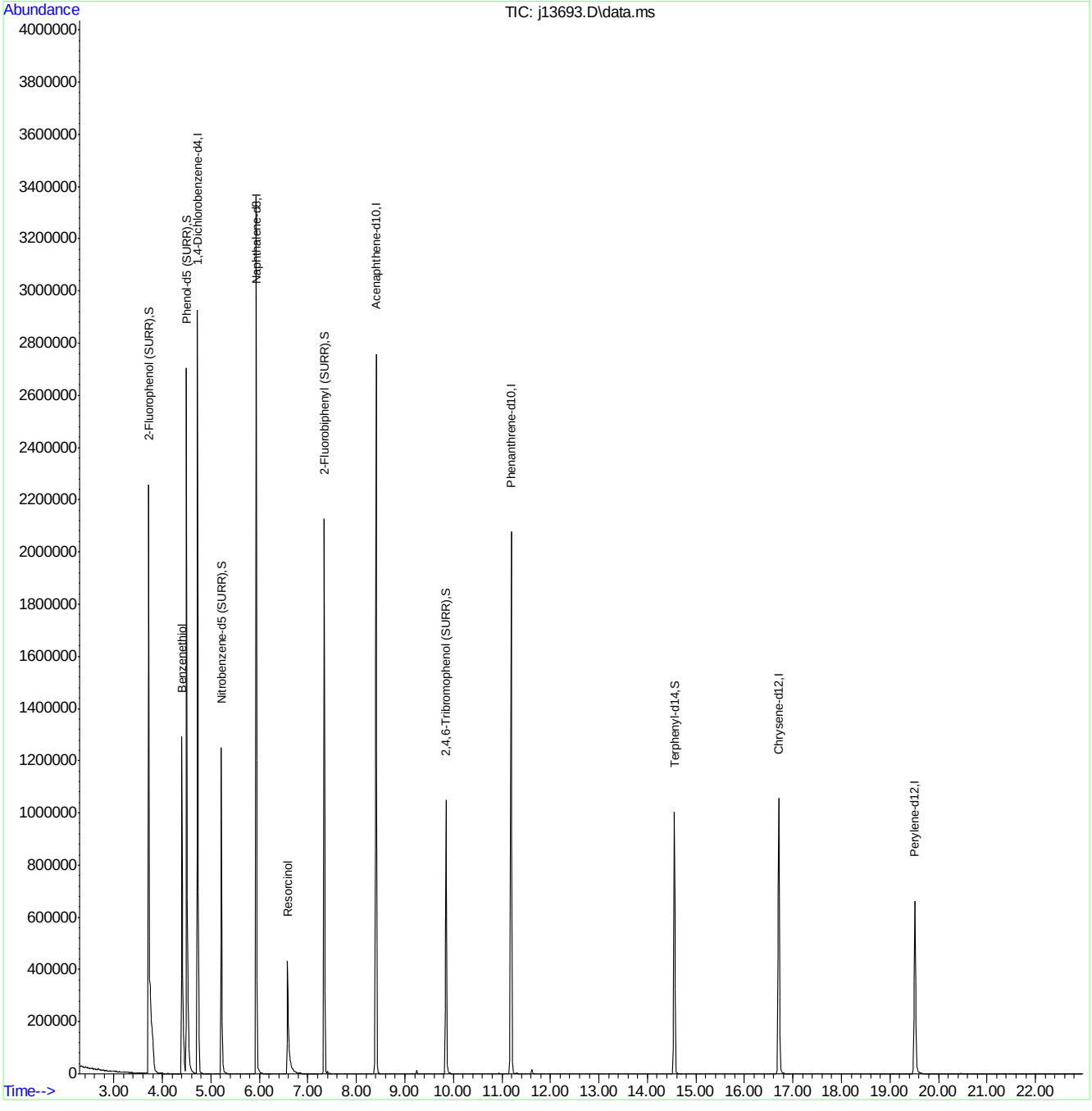
8.6.34

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13693.D
Acq On : 8 Oct 2009 1:22 pm
Operator : sheilac
Sample : ic629-25,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 14:18:08 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	453816	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1569063	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	846788	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1245971	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	655946	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	427661	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.720	112	3743084	248.54	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 248.54%#			
5) Phenol-d5 (SURR)	4.512	99	4864272	293.30	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 293.30%#			
15) Nitrobenzene-d5 (SURR)	5.229	82	2060552	127.59	ug/ml	-0.04
Spiked Amount 50.000	Range 29 - 115		Recovery = 255.18%#			
22) 2-Fluorobiphenyl (SURR)	7.352	172	3759153	121.34	ug/ml	0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 242.68%#			
28) 2,4,6-Tribromophenol (...	9.871	330	1013581	247.09	ug/ml	0.40
Spiked Amount 100.000	Range 32 - 128		Recovery = 247.09%#			
35) Terphenyl-d14	14.573	244	2266528	149.86	ug/ml	0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 299.72%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	1827357	158.74	ug/ml	99
19) Resorcinol	6.598	110	1263288	124.82	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

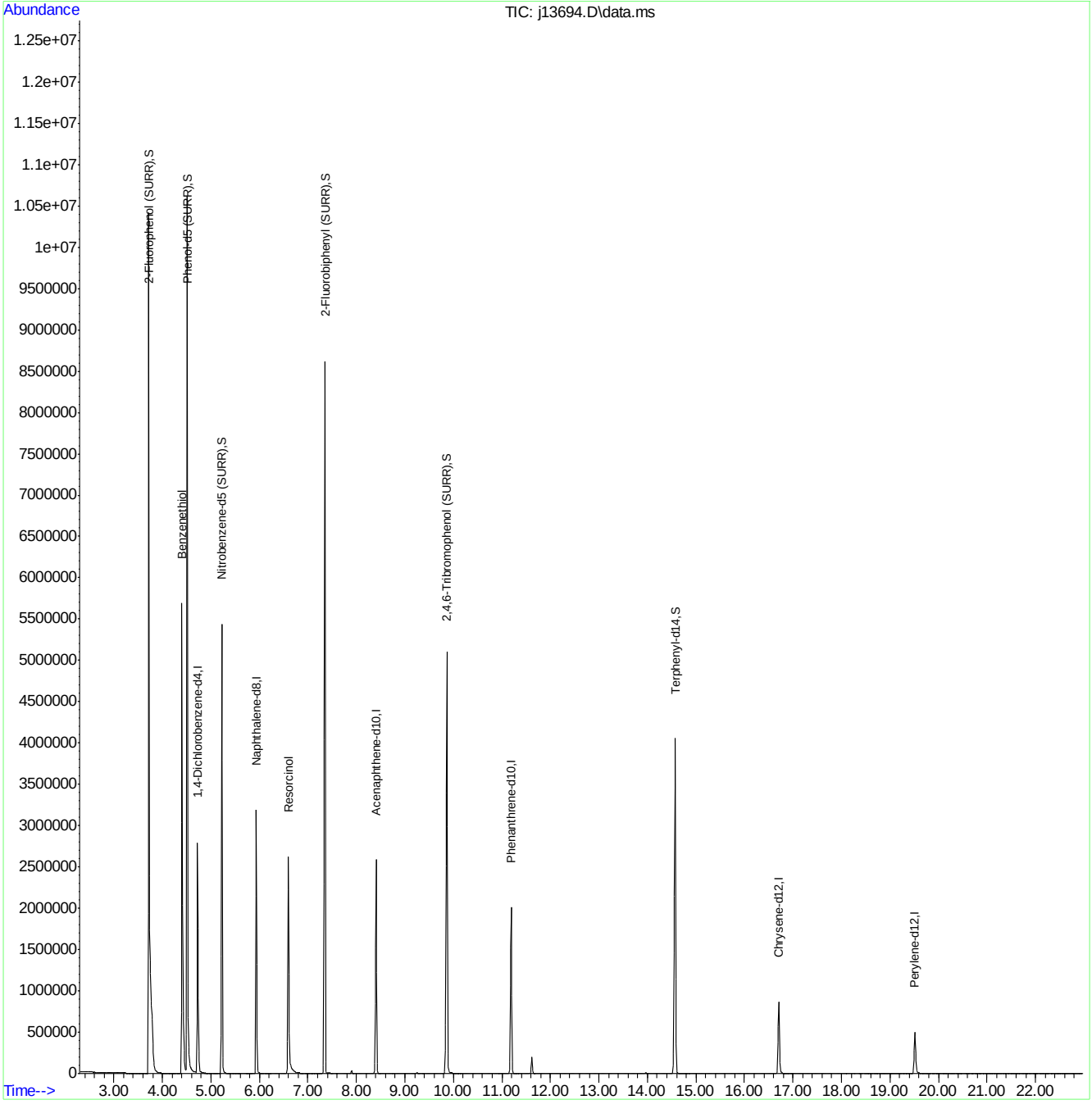
8.6.35

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13695.D
Acq On : 8 Oct 2009 2:26 pm
Operator : sheilac
Sample : icv629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 14:51:49 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	386125	40.00	ug/ml	0.00
14) Naphthalene-d8	5.940	136	1353260	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.411	164	734185	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.192	188	1056391	40.00	ug/ml	0.00
33) Chrysene-d12	16.712	240	572562	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	373851	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
15) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
22) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
28) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
35) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	707244	48.86	ug/ml	99
19) Resorcinol	6.587	110	470278	47.27	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

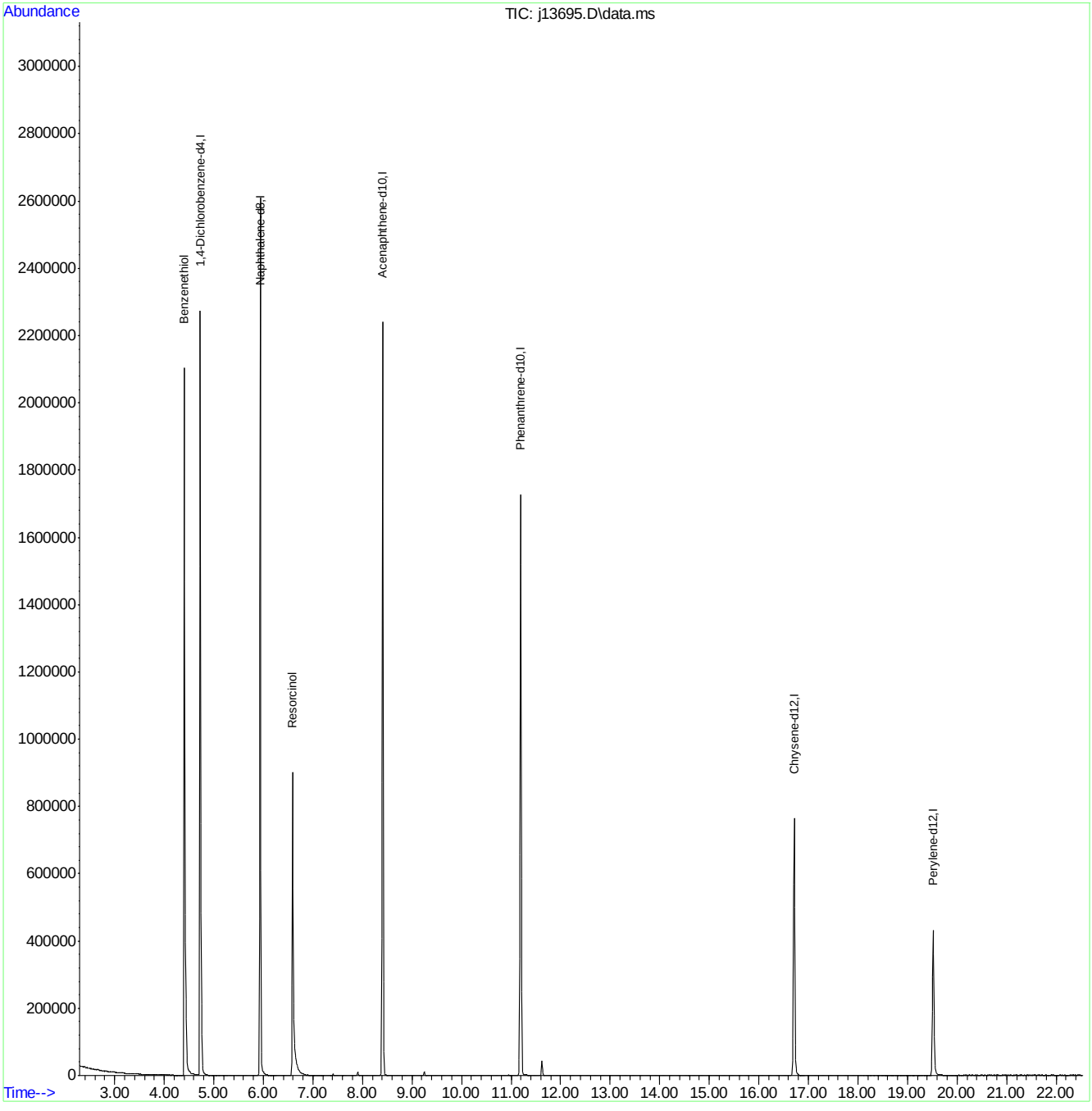
8.6.36

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13695.D
Acq On : 8 Oct 2009 2:26 pm
Operator : sheilac
Sample : icv629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 14:51:49 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On : 14 Oct 2009 11:18 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	532652	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1861826	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.374	164	1081202	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.149	188	1489977	40.00	ug/ml	-0.05
71) Chrysene-d12	16.669	240	996370	40.00	ug/ml	-0.06
80) Perylene-d12	19.461	264	488889	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.693	112	1709060	102.24	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery	= 102.24%#		
5) Phenol-d5 (SURR)	4.490	99	2322795	111.18	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	= 111.18%#		
21) Nitrobenzene-d5 (SURR)	5.207	82	1029258	52.72	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery	= 105.44%		
40) 2-Fluorobiphenyl (SURR)	7.309	172	2042920	48.51	ug/ml	-0.23
Spiked Amount 50.000	Range 34 - 113		Recovery	= 97.02%		
62) 2,4,6-Tribromophenol (...	9.823	330	502546	100.24	ug/ml	-0.14
Spiked Amount 100.000	Range 32 - 128		Recovery	= 100.24%		
74) Terphenyl-d14	14.508	244	1284534	53.99	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery	= 107.98%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.453	74	462467	51.66	ug/ml	98
3) Pyridine	2.431	79	844430m	53.45	ug/ml	
6) Phenol	4.501	94	1279333	56.59	ug/ml	94
7) Aniline	4.464	93	1336453	53.14	ug/ml	93
8) bis(2-Chloroethyl)ether	4.506	93	999484	45.10	ug/ml	91
9) 2-Chlorophenol	4.560	128	857909	48.92	ug/ml	100
10) 1,3-Dichlorobenzene	4.656	146	975979	49.13	ug/ml	99
11) 1,4-Dichlorobenzene	4.720	146	1080920	50.72	ug/ml	87
12) Benzyl Alcohol	4.859	108	610740	49.98	ug/ml	100
13) 1,2-Dichlorobenzene	4.849	146	1013070	50.67	ug/ml	99
14) 2-Methylphenol	4.966	108	789630	49.82	ug/ml	89
15) bis(2-chloroisopropyl)...	4.950	45	1380002	49.17	ug/ml#	73
16) 4-Methylphenol	5.111	108	830571	49.54	ug/ml#	66
17) m+p-Cresols	5.111	108	830571	49.54	ug/ml#	66
18) n-Nitroso-di-n-propyla...	5.089	70	741037	48.73	ug/ml	99
19) Hexachloroethane	5.138	117	389246	50.05	ug/ml	100
22) Nitrobenzene	5.223	77	1009817	52.66	ug/ml	100
23) Isophorone	5.459	82	1743680	49.52	ug/ml	99
24) 2-Nitrophenol	5.523	139	442838	50.23	ug/ml	98
25) 2,4-Dimethylphenol	5.603	122	768329	52.70	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.662	93	1000463	51.56	ug/ml	100
27) Benzoic Acid	5.801	105	379795	52.45	ug/ml	96
28) 2,4-Dichlorophenol	5.801	162	686471	53.53	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.854	180	790267	51.21	ug/ml	100
30) Naphthalene	5.940	128	2678439	52.82	ug/ml	99
31) 4-Chloroaniline	6.009	127	957650	51.80	ug/ml	97
32) Hexachlorobutadiene	6.079	225	507405	52.37	ug/ml	99

8.6.37
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On : 14 Oct 2009 11:18 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.635	107	741705	51.20 ug/ml	99
34) 2-Methylnaphthalene	6.780	142	1621552	52.34 ug/ml	100
35) 1-Methylnaphthalene	6.913	142	1690722	52.11 ug/ml	99
37) Hexachlorocyclopentadiene	6.999	237	149922	35.39 ug/ml	96
38) 2,4,6-Trichlorophenol	7.202	196	435648	48.29 ug/ml	99
39) 2,4,5-Trichlorophenol	7.282	196	458819	42.99 ug/ml	100
41) 2-Chloronaphthalene	7.475	162	1489846	49.32 ug/ml	99
42) 2-Nitroaniline	7.668	65	503381	49.56 ug/ml	98
43) Dimethylphthalate	7.994	163	1664501	45.84 ug/ml	100
44) Acenaphthylene	8.133	152	2422749	47.32 ug/ml	100
45) 2,6-Dinitrotoluene	8.079	165	390832	45.75 ug/ml#	80
46) 3-Nitroaniline	8.368	138	412655	51.71 ug/ml	99
47) Acenaphthene	8.432	154	1468869	48.83 ug/ml	100
48) 2,4-Dinitrophenol	8.555	184	150017	53.25 ug/ml	93
49) 4-Nitrophenol	8.817	65	195966m	40.23 ug/ml	
50) Dibenzofuran	8.732	168	2067933	48.12 ug/ml	99
51) 2,4-Dinitrotoluene	8.780	165	464671	45.42 ug/ml	98
52) 2,3,4,6-Tetrachlorophenol	8.999	232	342840	43.01 ug/ml	99
53) Diethylphthalate	9.240	149	1763103	46.80 ug/ml	99
54) Fluorene	9.352	166	1819653	48.59 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.374	204	890720	46.11 ug/ml	99
56) 4-Nitroaniline	9.497	138	291488	47.66 ug/ml	95
58) 1,2-Diphenylhydrazine	9.679	77	1830618	48.31 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.550	198	217780	45.58 ug/ml	98
60) Diphenylamine	9.630	169	1379187	49.46 ug/ml	100
61) n-Nitrosodiphenylamine	9.630	169	1379187	49.46 ug/ml	100
63) 4-Bromophenyl-phenylether	10.299	248	461937	49.11 ug/ml	98
64) Hexachlorobenzene	10.422	284	498002	48.59 ug/ml	97
65) Pentachlorophenol	10.855	266	161924	46.34 ug/ml	98
66) Phenanthrene	11.203	178	2172522	48.94 ug/ml	100
67) Anthracene	11.305	178	2084213	48.76 ug/ml	99
68) Carbazole	11.674	167	1651584	47.99 ug/ml	100
69) Di-n-butylphthalate	12.497	149	2563094	48.08 ug/ml	99
70) Fluoranthene	13.642	202	1862649	46.28 ug/ml	99
72) Benzidine	13.990	184	524242	54.86 ug/ml#	99
73) Pyrene	14.097	202	1872068	53.32 ug/ml	100
75) Butylbenzylphthalate	15.610	149	790905	50.59 ug/ml	99
76) Benzo(a)anthracene	16.648	228	1389291	49.56 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.653	252	377863	55.00 ug/ml	99
78) Chrysene	16.728	228	1152595	48.78 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.883	149	1038599	49.44 ug/ml	99
81) Di-n-octylphthalate	18.172	149	1400096	54.28 ug/ml#	100
82) Benzo(b)fluoranthene	18.777	252	820136	50.76 ug/ml	96
83) Benzo(k)fluoranthene	18.830	252	841462	57.02 ug/ml	99
84) Benzo(a)pyrene	19.365	252	705374	51.14 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.542	276	619343	53.25 ug/ml	97
86) Dibenz(a,h)anthracene	21.569	278	515614	53.41 ug/ml	97
87) Benzo(g,h,i)perylene	22.120	276	462095	52.59 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On : 14 Oct 2009 11:18 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

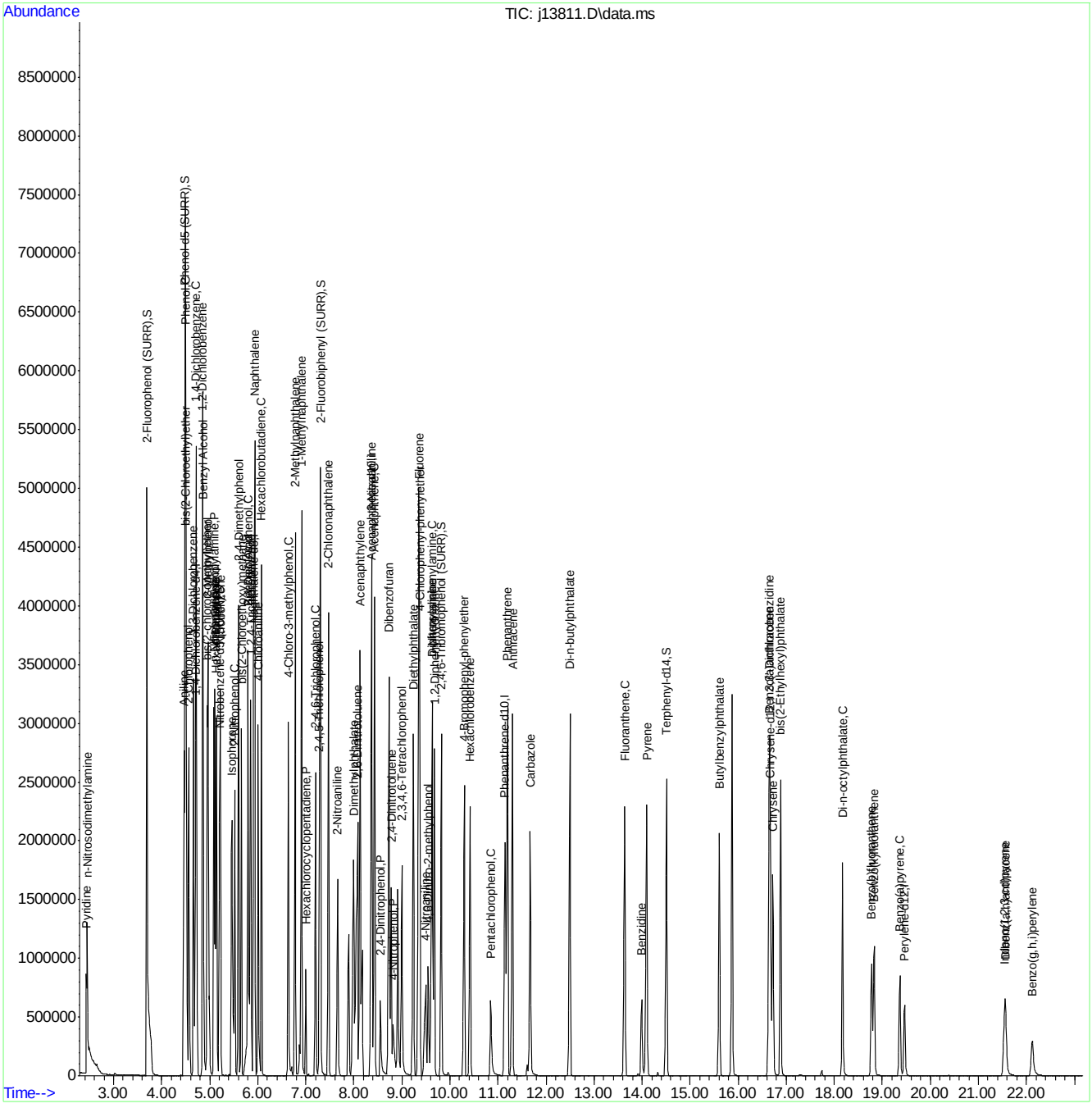
8.6.37

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On : 14 Oct 2009 11:18 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

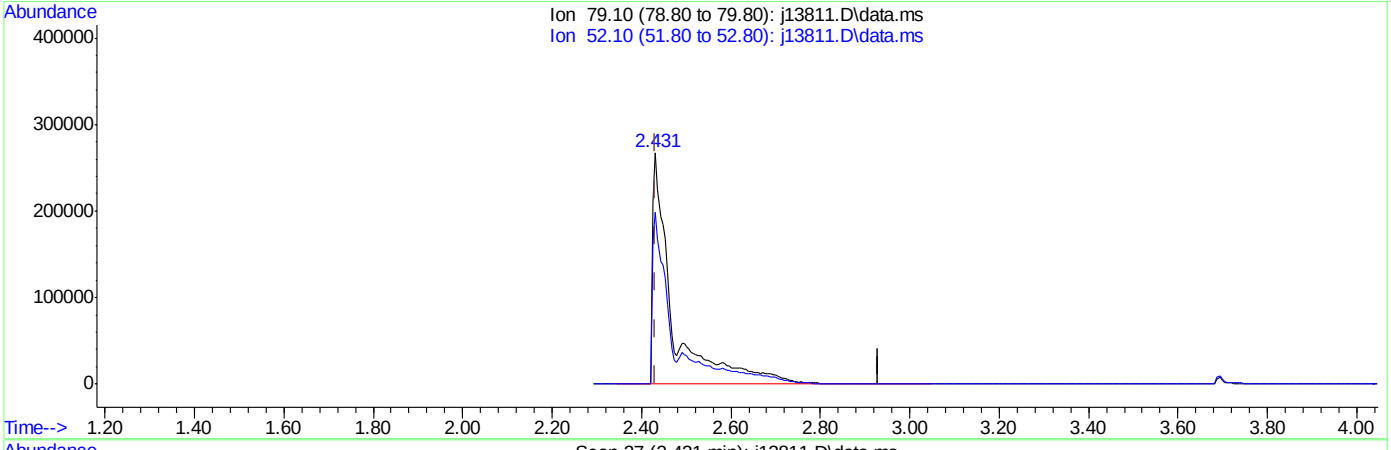
Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration

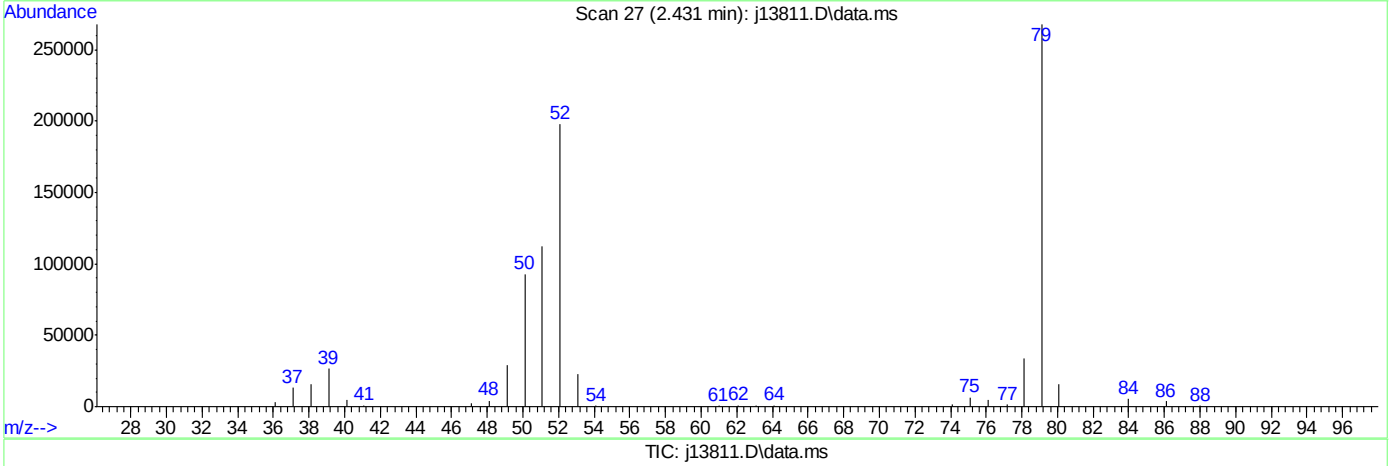


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On    : 14 Oct 2009  11:18 am
Operator  : sheilac
Sample    : cc615-50
Misc      : op12949,Ej634,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration
```





(3) Pyridine

2.431min (-0.001) 53.45ug/ml m

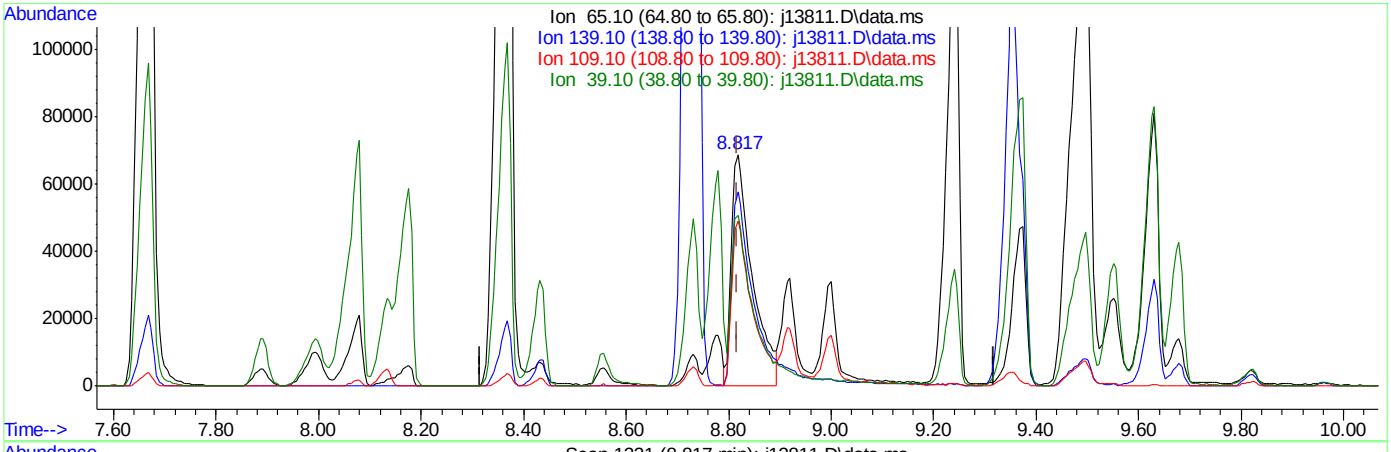
response 844430

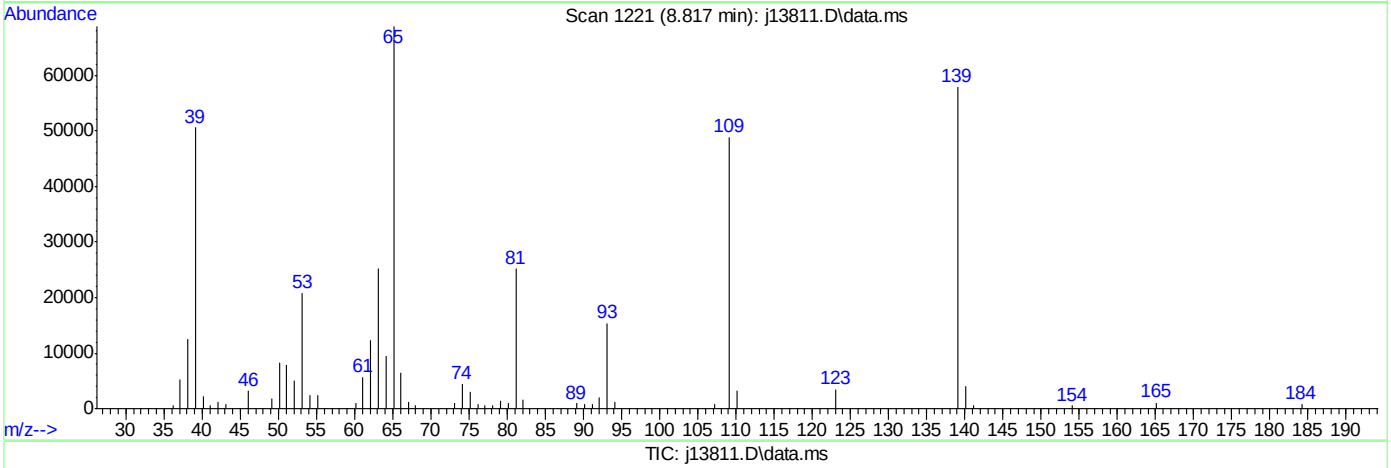
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	44.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13811.D
Acq On : 14 Oct 2009 11:18 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 18:35:39 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 15 18:34:37 2009
Response via : Initial Calibration





(49) 4-Nitrophenol (P)

8.817min (0.000) 40.23ug/ml m

response 195966

Ion	Exp%	Act%
65.10	100	100
139.10	84.10	92.29
109.10	71.10	70.42
39.10	73.50	74.18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13813.D
Acq On : 14 Oct 2009 12:19 pm
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 13:17:11 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.705	152	648058	40.00	ug/ml	-0.02
14) Naphthalene-d8	5.903	136	2326331	40.00	ug/ml	-0.03
21) Acenaphthene-d10	8.358	164	1229341	40.00	ug/ml	-0.05
27) Phenanthrene-d10	11.134	188	1572688	40.00	ug/ml	-0.06
33) Chrysene-d12	16.648	240	826975	40.00	ug/ml	-0.06
40) Perylene-d12	19.456	264	533106	40.00	ug/ml	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.694	112	2457592	101.01	ug/ml	-0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 101.01%#			
5) Phenol-d5 (SURR)	4.480	99	3107390	100.90	ug/ml	-0.03
Spiked Amount 100.000	Range 10 - 53		Recovery = 100.90%#			
15) Nitrobenzene-d5 (SURR)	5.197	82	1408474	49.84	ug/ml	-0.03
Spiked Amount 50.000	Range 29 - 115		Recovery = 99.68%			
22) 2-Fluorobiphenyl (SURR)	7.299	172	2606420	53.01	ug/ml	-0.05
Spiked Amount 50.000	Range 34 - 113		Recovery = 106.02%			
28) 2,4,6-Tribromophenol (...	9.802	330	543113	100.68	ug/ml	-0.07
Spiked Amount 100.000	Range 32 - 128		Recovery = 100.68%			
35) Terphenyl-d14	14.503	244	1283701	52.39	ug/ml	-0.07
Spiked Amount 50.000	Range 12 - 145		Recovery = 104.78%			
Target Compounds						Qvalue
4) Benzenethiol	4.384	110	1188633	48.93	ug/ml	99
19) Resorcinol	6.550	110	643427	38.60	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

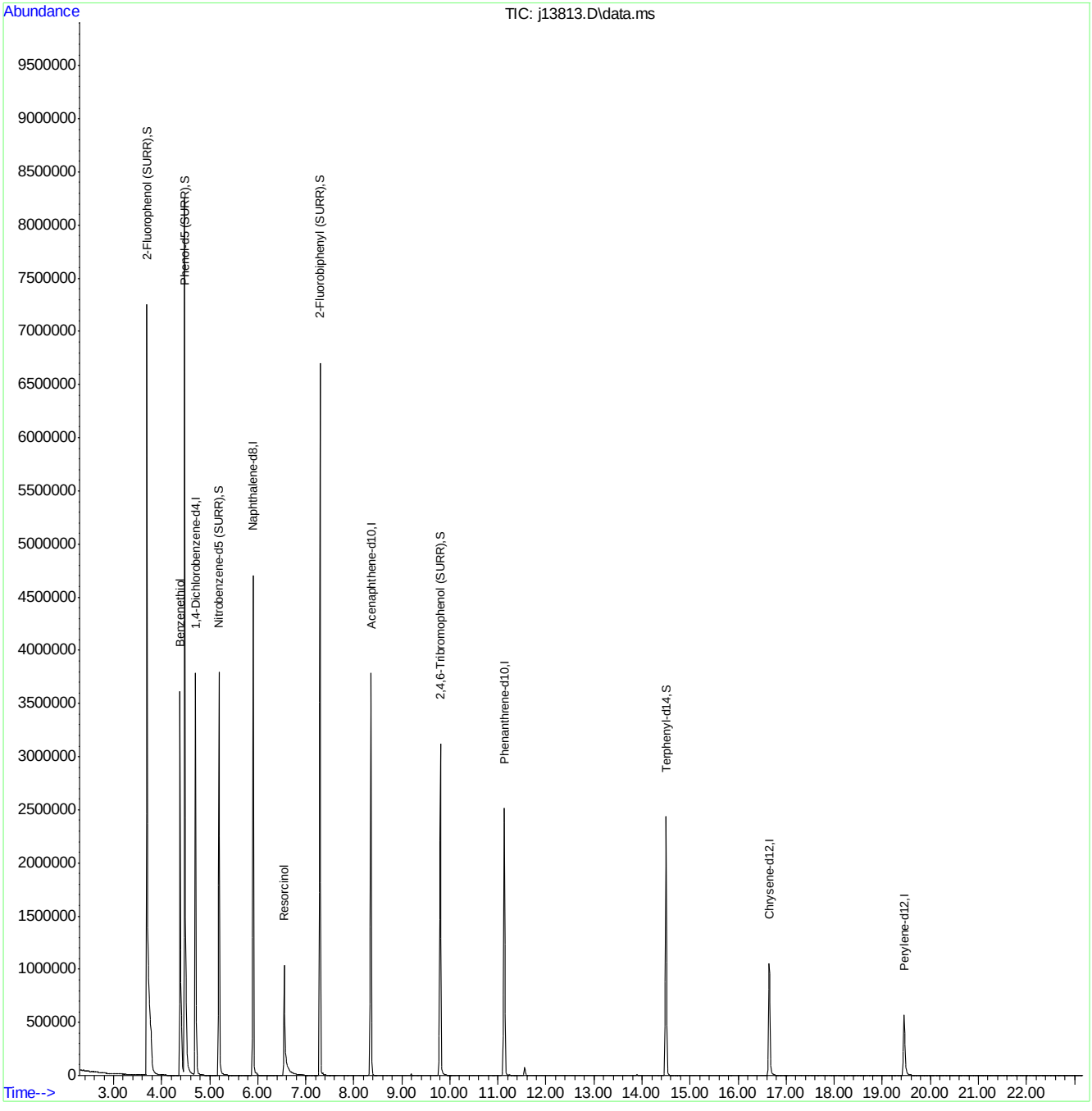
8.6.38

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej634\
Data File : j13813.D
Acq On : 14 Oct 2009 12:19 pm
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej634,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 13:17:11 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39646

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/20/09 08:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13837.D
Acq On : 15 Oct 2009 10:48 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 11:51:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	539415	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.919	136	1885588	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.384	164	1052291	40.00	ug/ml	-0.03
57) Phenanthrene-d10	11.155	188	1359423	40.00	ug/ml	-0.05
71) Chrysene-d12	16.685	240	968945	40.00	ug/ml	-0.05
80) Perylene-d12	19.477	264	501293	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.694	112	1744971	103.08	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 103.08%#			
5) Phenol-d5 (SURR)	4.496	99	2378459	112.42	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 112.42%#			
21) Nitrobenzene-d5 (SURR)	5.213	82	1046768	52.94	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 105.88%			
40) 2-Fluorobiphenyl (SURR)	7.315	172	2051651	50.05	ug/ml	-0.23
Spiked Amount 50.000	Range 34 - 113		Recovery = 100.10%			
62) 2,4,6-Tribromophenol (...	9.834	330	458774	100.30	ug/ml	-0.13
Spiked Amount 100.000	Range 32 - 128		Recovery = 100.30%			
74) Terphenyl-d14	14.519	244	1143825	49.44	ug/ml	-0.08
Spiked Amount 50.000	Range 12 - 145		Recovery = 98.88%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.458	74	472901	52.16	ug/ml	98
3) Pyridine	2.437	79	854657m	53.42	ug/ml	
6) Phenol	4.501	94	1306645	57.07	ug/ml	98
7) Aniline	4.469	93	1381955	54.34	ug/ml	93
8) bis(2-Chloroethyl)ether	4.512	93	995342	44.35	ug/ml	88
9) 2-Chlorophenol	4.565	128	865868	48.76	ug/ml	99
10) 1,3-Dichlorobenzene	4.662	146	992615	49.34	ug/ml	98
11) 1,4-Dichlorobenzene	4.726	146	1098109	50.88	ug/ml	88
12) Benzyl Alcohol	4.865	108	596651	48.22	ug/ml	98
13) 1,2-Dichlorobenzene	4.854	146	1023679	50.56	ug/ml	100
14) 2-Methylphenol	4.972	108	806944	50.28	ug/ml#	89
15) bis(2-chloroisopropyl)...	4.956	45	1424974	50.13	ug/ml#	74
16) 4-Methylphenol	5.116	108	825997	48.65	ug/ml#	68
17) m+p-Cresols	5.116	108	825997	48.65	ug/ml#	68
18) n-Nitroso-di-n-propyla...	5.095	70	761279	49.43	ug/ml	98
19) Hexachloroethane	5.143	117	396553	50.35	ug/ml	99
22) Nitrobenzene	5.229	77	1035195	53.30	ug/ml	99
23) Isophorone	5.464	82	1762175	49.42	ug/ml	98
24) 2-Nitrophenol	5.528	139	448256	50.20	ug/ml	97
25) 2,4-Dimethylphenol	5.608	122	771618	52.26	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.667	93	1009852	51.39	ug/ml	100
27) Benzoic Acid	5.806	105	378720	51.64	ug/ml#	87
28) 2,4-Dichlorophenol	5.806	162	686908	52.88	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.860	180	805168	51.52	ug/ml	100
30) Naphthalene	5.945	128	2727451	53.11	ug/ml	99
31) 4-Chloroaniline	6.015	127	967389	51.67	ug/ml	97
32) Hexachlorobutadiene	6.084	225	514875	52.47	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13837.D
Acq On : 15 Oct 2009 10:48 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 11:51:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.641	107	725173	49.43 ug/ml	99
34) 2-Methylnaphthalene	6.785	142	1624487	51.78 ug/ml	99
35) 1-Methylnaphthalene	6.919	142	1701922	51.79 ug/ml	99
37) Hexachlorocyclopentadiene	7.010	237	119153	30.34 ug/ml	97
38) 2,4,6-Trichlorophenol	7.213	196	425812	48.49 ug/ml	100
39) 2,4,5-Trichlorophenol	7.288	196	441651	42.56 ug/ml	100
41) 2-Chloronaphthalene	7.486	162	1478319	50.28 ug/ml	99
42) 2-Nitroaniline	7.673	65	490077	49.58 ug/ml	97
43) Dimethylphthalate	8.005	163	1603485	45.38 ug/ml	100
44) Acenaphthylene	8.144	152	2383057	47.82 ug/ml	100
45) 2,6-Dinitrotoluene	8.085	165	375109	45.12 ug/ml#	79
46) 3-Nitroaniline	8.374	138	382603	49.36 ug/ml	99
47) Acenaphthene	8.443	154	1439713	49.17 ug/ml	100
48) 2,4-Dinitrophenol	8.566	184	130500	48.80 ug/ml	90
49) 4-Nitrophenol	8.823	65	156124	33.45 ug/ml	93
50) Dibenzofuran	8.743	168	2000444	47.83 ug/ml	98
51) 2,4-Dinitrotoluene	8.791	165	434110	43.60 ug/ml	98
52) 2,3,4,6-Tetrachlorophenol	9.005	232	322466	41.67 ug/ml	98
53) Diethylphthalate	9.245	149	1660948	45.30 ug/ml	99
54) Fluorene	9.363	166	1736477	47.64 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.379	204	849113	45.23 ug/ml	99
56) 4-Nitroaniline	9.502	138	257296	43.23 ug/ml	94
58) 1,2-Diphenylhydrazine	9.684	77	1778001	51.43 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.561	198	197625	45.36 ug/ml	97
60) Diphenylamine	9.636	169	1304519	51.28 ug/ml	100
61) n-Nitrosodiphenylamine	9.636	169	1304519	51.28 ug/ml	100
63) 4-Bromophenyl-phenylether	10.310	248	434501	50.63 ug/ml	98
64) Hexachlorobenzene	10.433	284	462187	49.43 ug/ml	96
65) Pentachlorophenol	10.861	266	140850	44.73 ug/ml	98
66) Phenanthrene	11.208	178	2002763	49.45 ug/ml	99
67) Anthracene	11.310	178	1910710	49.00 ug/ml	99
68) Carbazole	11.684	167	1460762	46.52 ug/ml	99
69) Di-n-butylphthalate	12.508	149	2303996	47.37 ug/ml	99
70) Fluoranthene	13.647	202	1645504	44.81 ug/ml	99
72) Benzidine	14.000	184	466738	52.31 ug/ml#	99
73) Pyrene	14.107	202	1657337	48.54 ug/ml	100
75) Butylbenzylphthalate	15.621	149	725947	47.74 ug/ml	98
76) Benzo(a)anthracene	16.659	228	1337966	49.08 ug/ml	98
77) 3,3'-Dichlorobenzidine	16.664	252	380672	56.98 ug/ml	100
78) Chrysene	16.739	228	1125548	48.99 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.899	149	967809	47.37 ug/ml	98
81) Di-n-octylphthalate	18.188	149	1401136	53.08 ug/ml#	100
82) Benzo(b)fluoranthene	18.798	252	845795	51.05 ug/ml	96
83) Benzo(k)fluoranthene	18.846	252	862446	57.00 ug/ml	99
84) Benzo(a)pyrene	19.381	252	737177	52.12 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.569	276	603626	50.61 ug/ml	96
86) Dibenz(a,h)anthracene	21.590	278	504123	50.93 ug/ml	96
87) Benzo(g,h,i)perylene	22.146	276	436651	48.46 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13837.D
Acq On : 15 Oct 2009 10:48 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 11:51:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

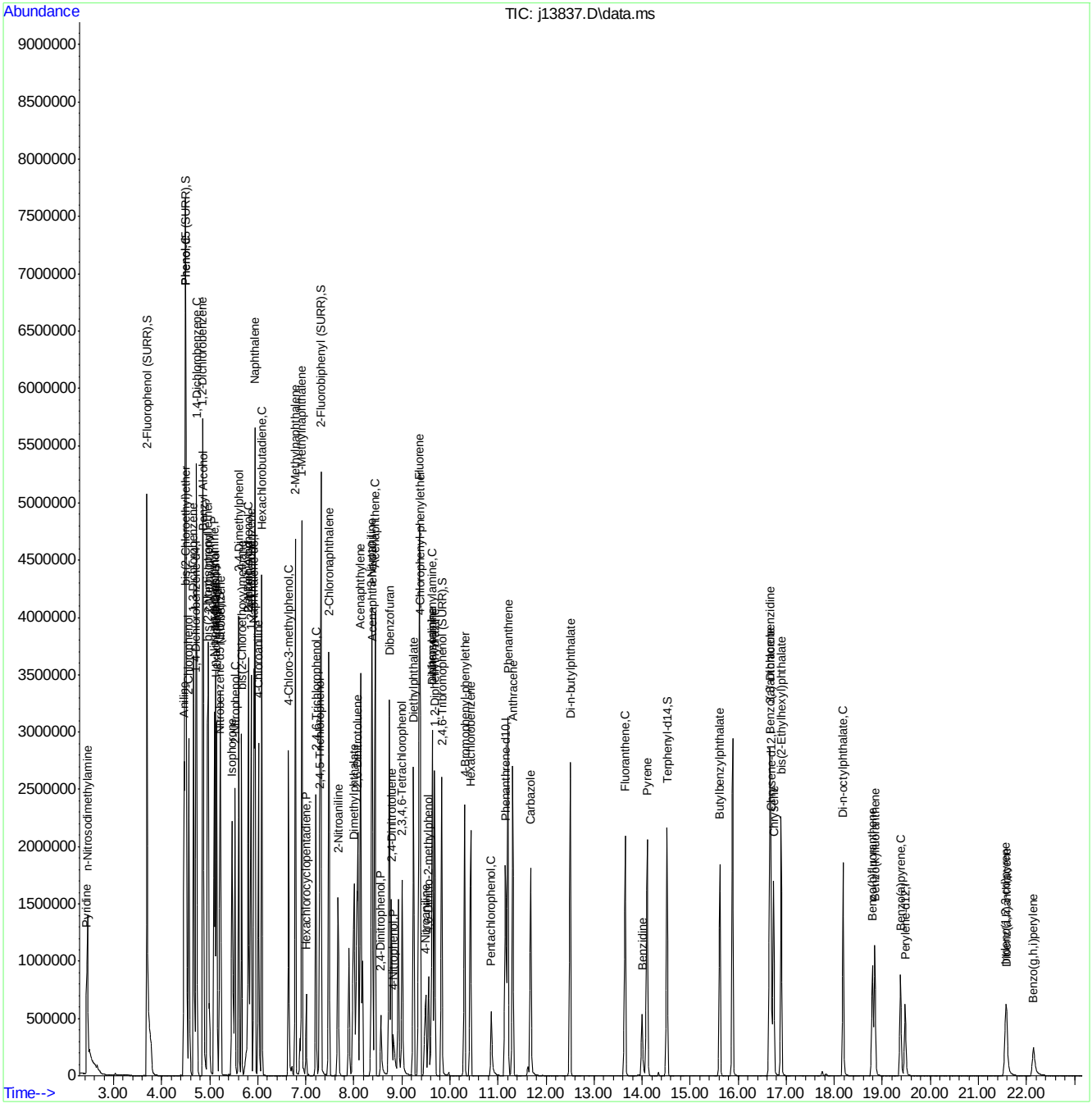
8.6.39

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13837.D
Acq On : 15 Oct 2009 10:48 am
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 11:51:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

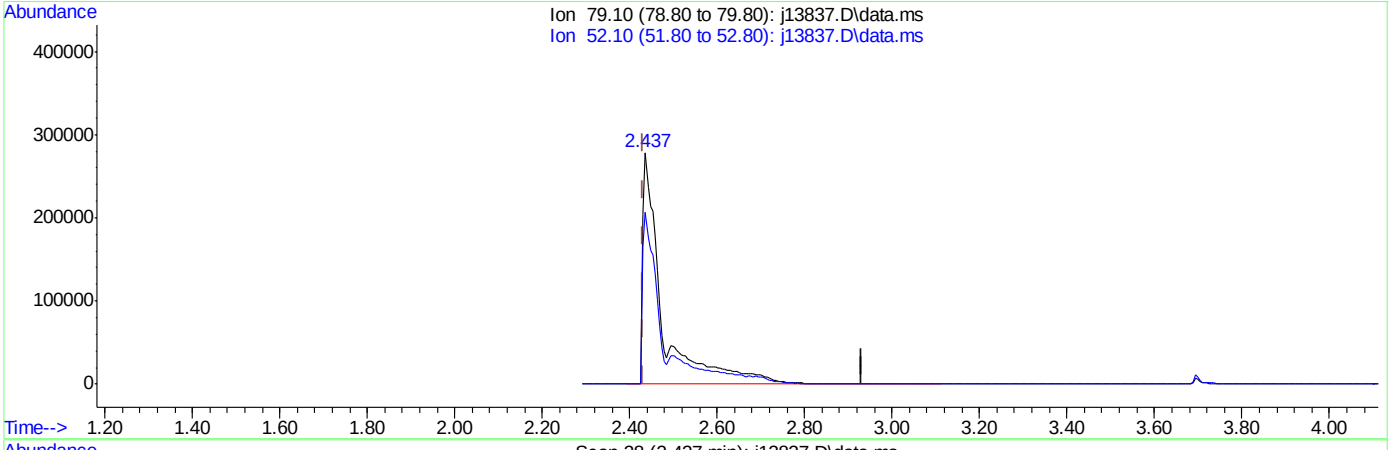


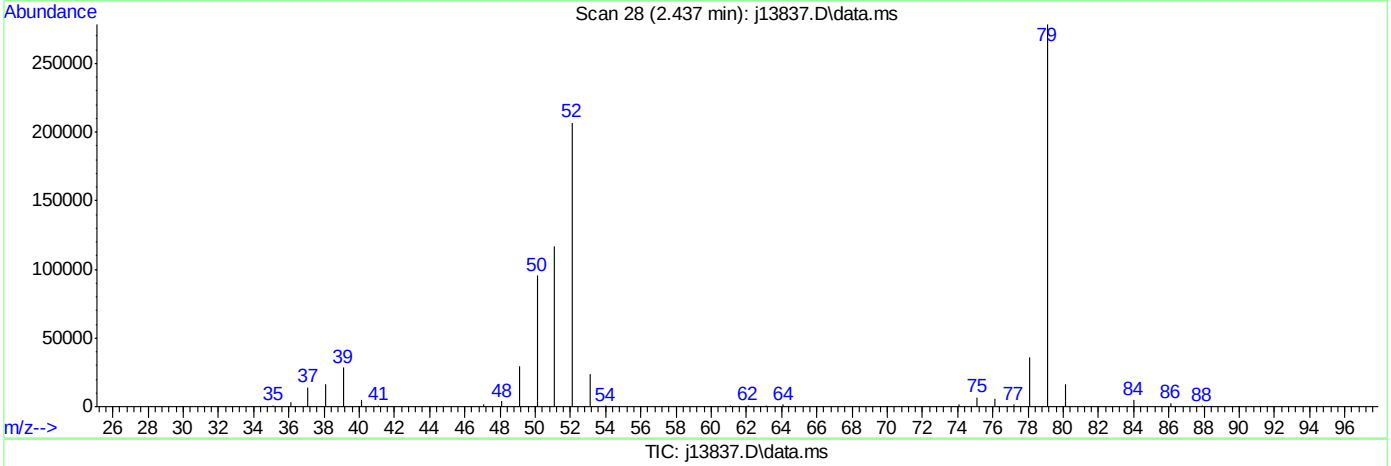
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13837.D
Acq On    : 15 Oct 2009  10:48 am
Operator  : sheilac
Sample    : cc615-50
Misc      : op12949,Ej635,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 15 11:51:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration
```





(3) Pyridine

2.437min (+0.005) 53.42ug/ml m

response 854657

Ion	Exp%	Act%
79.10	100	100
52.10	72.60	47.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13838.D
Acq On : 15 Oct 2009 11:20 am
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 15 11:49:35 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.710	152	628867	40.00	ug/ml	-0.02
14) Naphthalene-d8	5.913	136	2234616	40.00	ug/ml	-0.02
21) Acenaphthene-d10	8.368	164	1152689	40.00	ug/ml	-0.04
27) Phenanthrene-d10	11.144	188	1419882	40.00	ug/ml	-0.05
33) Chrysene-d12	16.664	240	742976	40.00	ug/ml	-0.04
40) Perylene-d12	19.472	264	465152	40.00	ug/ml	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.699	112	2342266	99.21	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 99.21%#			
5) Phenol-d5 (SURR)	4.485	99	2957384	98.96	ug/ml	-0.03
Spiked Amount 100.000	Range 10 - 53		Recovery = 98.96%#			
15) Nitrobenzene-d5 (SURR)	5.202	82	1348678	49.68	ug/ml	-0.03
Spiked Amount 50.000	Range 29 - 115		Recovery = 99.36%			
22) 2-Fluorobiphenyl (SURR)	7.309	172	2468538	53.55	ug/ml	-0.04
Spiked Amount 50.000	Range 34 - 113		Recovery = 107.10%			
28) 2,4,6-Tribromophenol (...	9.812	330	491999	101.02	ug/ml	-0.06
Spiked Amount 100.000	Range 32 - 128		Recovery = 101.02%			
35) Terphenyl-d14	14.509	244	1142831	51.91	ug/ml	-0.06
Spiked Amount 50.000	Range 12 - 145		Recovery = 103.82%			
Target Compounds						Qvalue
4) Benzenethiol	4.389	110	1133894	48.10	ug/ml	99
19) Resorcinol	6.555	110	650417m	40.37	ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

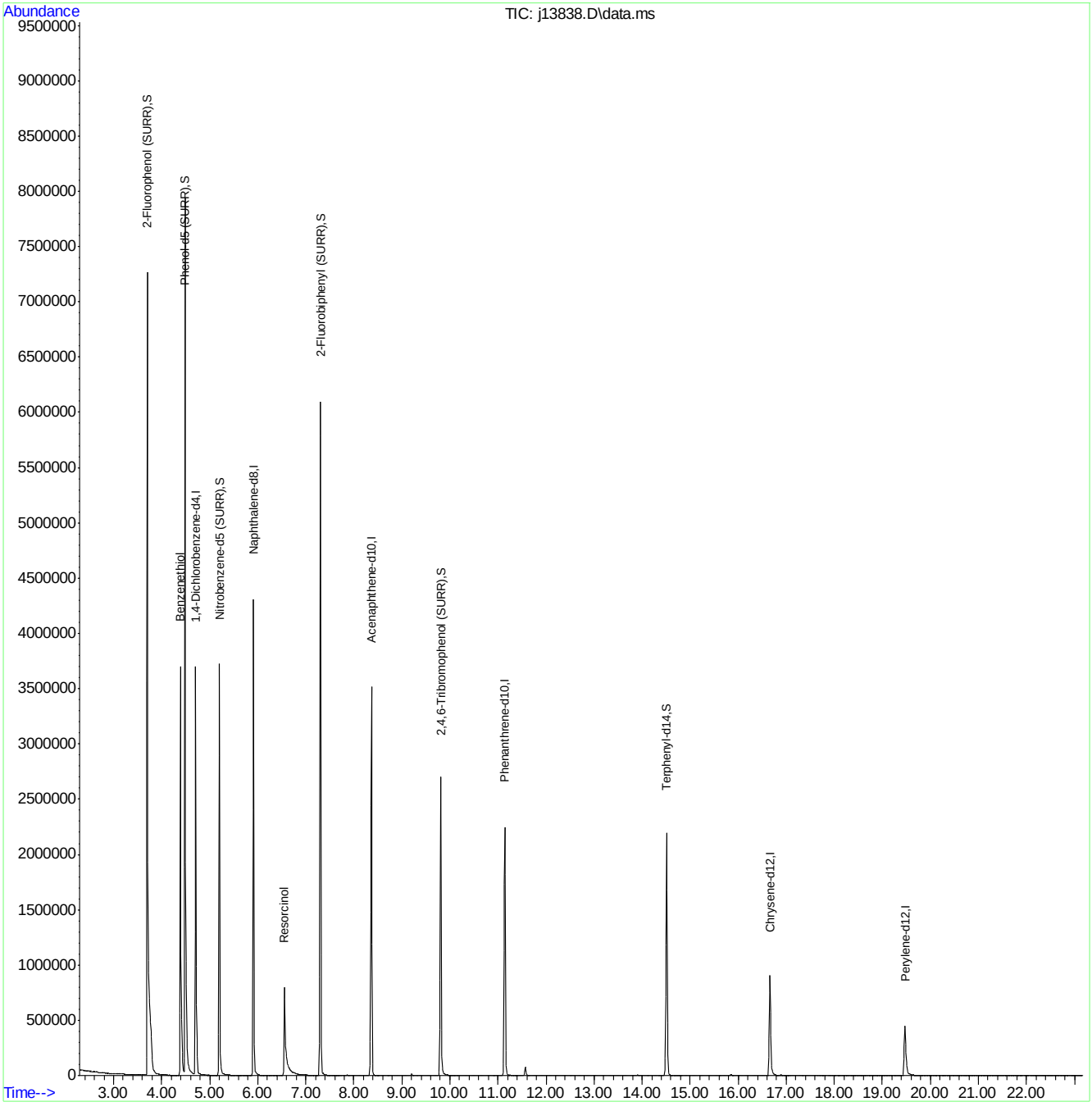
8.6.40

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13838.D
Acq On : 15 Oct 2009 11:20 am
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej635,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 15 11:49:35 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration

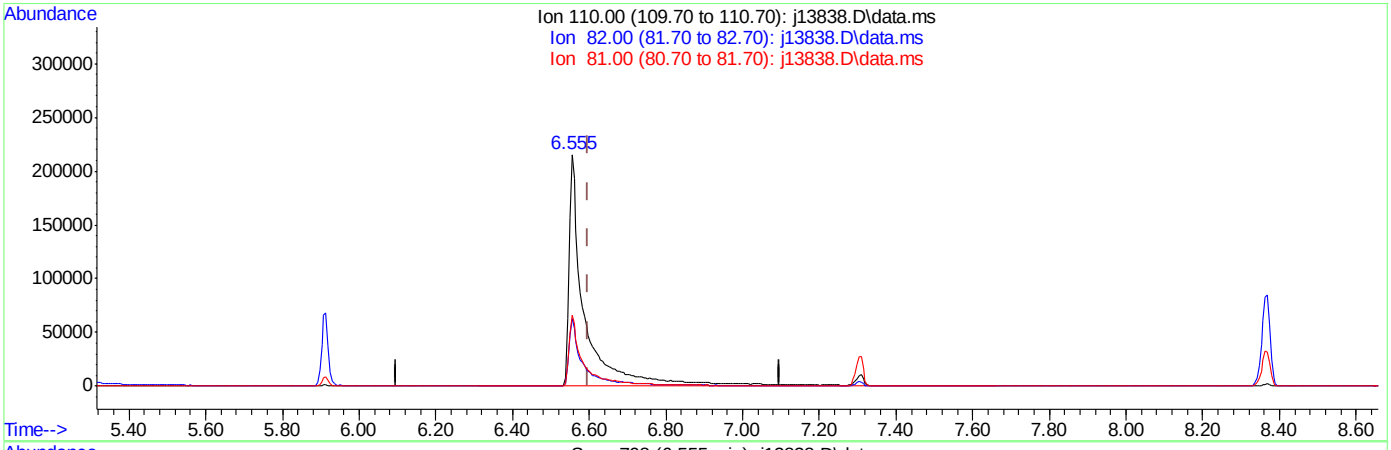


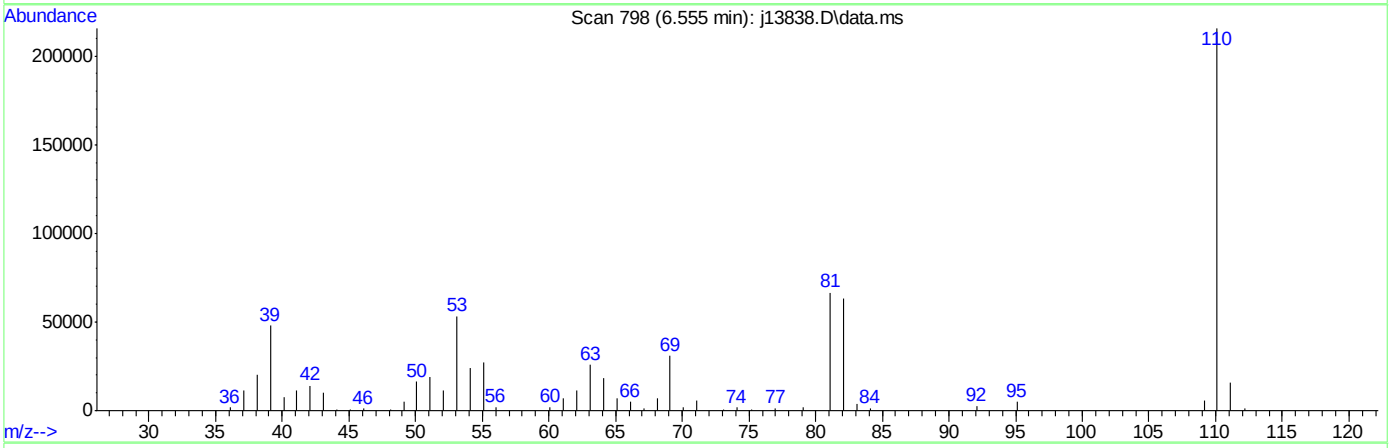
ACCUTEST Laboratories T39646

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej635\
Data File : j13838.D
Acq On    : 15 Oct 2009  11:20 am
Operator  : sheilac
Sample    : cc629-50,(Bzth+Resor)
Misc      : op12949,Ej635,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 15 11:49:35 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title  :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration
```





(19) Resorcinol

6.555min (-0.043) 40.37ug/ml m

response 650417

Ion	Exp%	Act%
110.00	100	100
82.00	27.20	24.86
81.00	29.30	25.84
0.00	0.00	0.00

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1919

Date: 10/22/2009 P.1 of 2

Analyst Signature: Shirlo Cheng

Standard Data

Ref #	Description
1	MS799
2	MS840-5
3	-4
4	-3
5	-2
6	-7
7	-6

SC 10/22/09

Standard Data

Ref #	Description
8	~~MS799~~ 840-J
9	MS 794 SC 10/22/09
10	IS-MS835A

Columns: RTX-5Sil

SW-846/EPA Method 8270 SIM PAH

Initial Cal. Method H102295P.m

Calibration Date: 10/22/09

Injection Volume: 1 ul

Solvent ID #: OP D91012B3

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35542	1	dfOPP	dfOPP				X	PCP tailing 75 cut more column	SC
1	43	1	↓	↓				✓	jl=03 Am	
2	44	2	CC1918-2.5	HS1MBSPP				X		
3	45	3	TC1919-1 SC 10/22/09					✓		
4	46	4	-a1					✓		
5	47	5	-a2					✓		
6	48	6	-b0					✓		
7	49	7	↓ -5					✓		
8	50	8	TCW1919-2.5					✓		
9	51	9	TCW1919-2.5					✓		
10	52	10	OP13271-MB		W	13271	1	✓	use SC705L extract Sa x10	
	53	11	-b5				1	✓	1/10	
	54	12	↓ -b5d				1	✓	1/10	
	55	13	T39423-1				1	✓		
	56	14	-2				1	✓		
	57	15	-3				1	✓		
	58	16	-4				1	✓		
	59	17	-5				1	✓		
	60	18	-6				1	✓		
↓	↓	61	19 ↓ -7	↓	↓	↓	1	✓		✓

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST. Laboratories T39646

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1919

Date: 10/22/2009 P. 2 of 2

Analyst Signature: [signature]

Standard Data		Standard Data	
Ref #	Description	Ref #	Description
10	IS-MS8357A		

Columns: All-page 87

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #:

Solvent:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
10	H35562	20	T39513-1	HSIMBSPP	W	13270	1	✓		SC
	63	21	-2				1	✓	acenaph, fluorene, phenanthrene, fluoranthene, pyr. ↑ (44,47)	
	64	22	-3				1	✓	acenaphthene 27,4, naph ↑	
	65	23	-6				1	✓	IS6↓, RRX1 ~~RRX4 for fluoranthene~~ DKR SC 10/22/09	
	66	24	-4				1	✓	naph, acenaphthene, 10:27pm	
	67	25	T39646-6		W	13271	1	-	IS out, RRX4 10:49pm	
	68	26	-7				1	X	11:18 pm, autoscale time too for screening	
	69	27	-8				1			
	70	28	-9				1			
	71	29	-10				1			
	72	30	-11				1			
	73	31	-1,4X				4			
	74	32	-2,10X				10			
	75	33	-3,10X				10			
	76	34	-4,10X				10			
	77	35	-5,10X				10			
									SC 10/23/09	

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1920

Date: 10/23/2009 P.1 of 2

Analyst Signature: Sheila Lane

Standard Data

Ref #	Description
1	MS799
2	MS890-5
3	-4
4	-1
5	-2
6	-6
7	-7

Standard Data

Ref #	Description
8	~~MS890~~ MS794
9	IS-MS890A
10	

Columns: RTX-5Sil

SW-846/EPA Method 8270Simpaah

Initial Cal. Method H102395p.m

Calibration Date: 10/23/09

Injection Volume: 1 µl

Solvent ID #: OP09101283

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35579	1	dfopp	dfopp				✓	10=52Am	SL
2	80	2	ICL1920-25	HSIMBSPP				✓		
3	81	3	ICL1920-1					✓		
4	82	4	-0.1					✓		
5	83	5	-0.2					✓		
6	84	6	-5					✓		
7	85	7	-10					✓		
8	86	8	ICV1920-25					✓		
9	87	9	OP13271-MB		W	13271	1	✓		
fo/SL	88	10	T39646-7				1	✓	IS/SU OK	
10/23/09	89	11	-8				1	✓	OK	
	90	12	-9				1	✓	IS↓↑ RRX10 for IS	
	91	13	-10				1	✓	IS↑, Chro	
	92	14	-11				1	✓	IS↓↑ SU OK acenaphthene, fluorene, phenanthrene, RRX10 for IS, fluoranthene	
	93	15	-10, 4X				4	✓	IS/SU OK naph, acenaphthene↑	
	94	16	-1, 4X				4	✓	IS/SU OK naph, acenaph, fluorene, phen↑	
	95	17	-2, 10X				10	✓	IS OK, SU↑ need RRX40 naph, acenaphthene, fluorene, phenanthrene	
	96	18	-3, 10X				10	✓	IS OK, SU OK, naph↑	
	97	19	-4, 10X				10	✓	IS/SU OK need RRX1, IS↑ SL 10/26 naph, acenaph↑ DNR	
	98	20	5, 10X				10	✓	naph↑ OK ~~PSC~~↓	

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1920

Date: 10/23/2009 P. 2 of 2

Analyst Signature: Shirita Chang

Standard Data	
Ref #	Description
9	IS-MS835A

Standard Data	
Ref #	Description

Columns: see page 89

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #:

Solvent:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
9	H35599	21	T39646-~~4~~ 6 4x	HSIMBSPP	W S	13271	4	✓	8=23pm, acenaph, fluorene↑ IS/SUOK, acenaph↑	SC
	600	22	↓ -11, 10x SC 10/23/09		SC 10/23/09		10	✓	IS/SUOK 8=41pm	
	1	23	T39513-6		W	13270	1	✓	IS/SUOK, naph, acenaph, phenanthr↑	
	2	24	T39187-3			13269	1	✓	9=42pm, IS/SUOK, naph, acenaph, Fluorene, phenanthrene anthracene	
	3	25	↓ -4, 10x				10	✓	10=11pm, IS/SUOK ↓	
	4	26	T39314-5		↓	↓	1	✓	10=40pm, IS/SUOK ↓ anthracene	
	5	27	T39513-5		W	13270	1	X	11=09pm Butylbenzene RP	
	6	28	↓ -7				1	X		
↓	H35607	29	↓ -8, 10x	↓	↓	↓	10	X	↓	↓

SC 10/23/09

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1921

Date: 10/26/09

Analyst Signature: [signature]

Standard Data		Standard Data	
Ref #	Description	Ref #	Description
1	MS799	8	MS794
2	MS840-5	9	IS-MS835A
3	-4		
4	-1		
5	-2		
6	-6		
7	-7		

Columns: RTX 5Sil

SW-846/EPA Method 8270 SIM PAH

Initial Cal. Method H102695f.m

Calibration Date: 10/26/09

Injection Volume: 1 µl

Solvent ID #: OP091012B5

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35609	1	dfopp	dfopp				✓	11:48Am	SC
2	10	2	TCW921-2,5	HS11MBSPP				✓		
3	11	3	TCW921-1					✓		
4	12	4	-0,1					✓		
5	13	5	-0,2					✓		
6	14	6	-5					✓		
7	15	7	-10					✓		
8	16	8	TCW1921-25					✓		
9	17	9	OP13271-MB		W	13271	1	✓		
	18	10	T39646-2,40X				40	✓	IS↓ SU OK, need acenaphthene, fluorene, phenanthrene	
	19	11	-4,				1	✓	IS/SU OK, naph, acenaphthene, fluorene, acenaphthylene, phenanthrene	
	20	12	-6				1	✓	IS 5↑, SU OK, fluoranthene, PYR↑	
	21	13	T39646-5		W	13270	1	✓	IS OK, SU OK, anthracene↑	
	22	14	-7				1	✓	IS/SU OK	
	23	15	-8,10X				10	✓	IS/SU OK, acenaphthene↑	
	24	16	-8,40X				40	✓	IS/SU OK need acenaphthene	
	25	17	-5,4X				4	✓	IS/SU OK need anthracene	
	26	18	T39646-9,10X		W	13271	10	✓	for IS	
									SC 10/26/09	

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ615

Date: 9/23/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4B
3	↓ -5A
4	MS784-2A
5	-8A
6	-3A
7	↓ -6

Standard Data

Ref #	Description
8	MS784-7
9	MS784-4C
10	↓ -5B
11	MS786

Columns: RXi5Sil

SW-846/EPA Method 8270C/625

Initial Cal. Method EJ615 ms

Calibration Date: 9/23/09

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13332	1	dfopp	dfopp				✓		SC
2	33	2	CC614-50	8270JRONS						
3	34	3	↓ -75							
4	35	4	IC615-5					✓		
5	36	5	-10					✓		
6	37	6	-25					✓		
7	38	7	-100					✓		
8	39	8	↓ -125					✓		
9	40	9	ICC615-50					✓		
10	41	10	IC615-75					✓		
11	42	11	ICV615-50	↓				✓		↓
									SC 9/23/2009	

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

8.7.4 8

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ629

Date: 10/08/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4C
3	MS833-5
4	4
5	6
6	12
7	3

Standard Data

Ref #	Description
8	MS833-7
9	MS834
10	IS-MS835

Columns: RXI5Sil

SW-846/EPA Method 8270C/625 / Bzthiol+Resorc

Initial Cal. Method EJ615 MS / EJ629 BZN+R

Calibration Date: 9/23/2009 / 9/8/2009

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13687	1	dfopp	dfopp				✓		SC
2	88	2	cc615-50	8270JROHS				/		
3	89	3	icc625-50 (Bzthiol+Reso)					/		
4	90	4	ic625-40					/		
5	91	5	-75					/		
6	92	6	-5					/		
7	93	7	-25					/		
8	94	8	-100					/		
9	95	9	icv625-50					/		
10	96	10	op13205-wb		W	13205	1	/		
	97	11	-bs				1	/	Bzthiol Spike	
	98	12	-bsd				1	/		
	99	13	wb				1	/	Sim soil Test	
	700	14	op13205-bs				1	/	~~Bzthi~~ SC 10/8/09 8270 Spike	
	701	15	-bsd				1	/		

SC 10/08/09

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST Laboratories T39646

8.7.5 8

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ634

Date: 10/14/2009 P1 of 2

Analyst Signature: Sheila Cheng

Standard Data		Standard Data	
Ref #	Description	Ref #	Description
1	MS799		
2	MS784-4C		
3	MS833-4		
4	↓ -5		
5	IS-MS835		

Columns: RXi5Sil

SW-846/EPA Method 8270C/625/Bzthiol+Resorcinol

Initial Cal. Method EJ615 ng/EJ629 BZN+RES

Calibration Date: 9/22/09 / 10/08/09

Injection Volume: 1 ul

Solvent ID #: OP0909188A29

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13810	1	dfoPP	dfoPP				✓	11:04AM	SC
2	11	2	CC615-50	8270JRONS				✓		
3	12	3	CC629-40(Bzthl+Resor)					x	↓	
4	13	4	CC629-50(Bzthl+Res.)					✓		
5	14	5	OP13250-MB		W	13250	1	✓	Rex to confirm for diethylphthalate	
	15	6	↓ -bs				1	✓	Bzthiol	
	16	7	↓ -bsd				1	✓		
	17	8	OP13250-bs				1	✓	8270	
	18	9	↓ -bsd				1	✓		
	19	10	OP13250-MB				1	✓	TIC	
	20	11	T39646-3				1	✓	Chrom↑, DNR	
	21	12	↓ -3, 100x				100	✓	phenol, acenap. need RR x40, x400, DNR	
	22	13	-6				1	✓	acenaphthene↑ need RR x5	
	23	14	↓ -8				1	✓		
	24	15	OP13250-MS				1	✓	T39646-8 MS	
	25	16	↓ -msd				1	✓		
	26	17	T39646-9				1	✓	acenaphthene↑ need RR x5	
	27	18	↓ -11				1	✓	OK	
	28	19	↓ -7				1	✓	acenaphthene↑ need RR x4	
↓	↓	29	20 ↓ -10, 10x	↓	↓	↓	10	✓	2,4 dimethylphenol↑ RR x40	↓

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ634

Date: 10/14/2009 P. 2 of 2

Analyst Signature: Sheila Cheng

Standard Data		Standard Data	
Ref #	Description	Ref #	Description
5	IS-MS83.5		

Columns: See page 95

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #:

Solvent:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
5	J13830	21	T39646-1,40x	8270JRONS	W	13250	40	✓	need RR x4	Sc
	31	22	-2,40x				40	✓	Chron, 10=31PM, need RR x800	
	32	23	-4,40x				40	✓	11=01PM, need RR x for pulse chromatogram	
	33	24	-5,40x				40	X	11=30PM, outside time frame	
	34	25	-3,400x				400			
	35	26	T39648,100x		W	13230	100			

Sc 10/14/2009

MTX = Matrix Designate W for water, S for soil, O for oil.

8.7.6

8

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ635

Date: 10/15/2009, P.1 of 2

Analyst Signature: Sheila Cheung

Standard Data

Ref #	Description
1	MS799
2	MS 784-9C
3	MS833-5
4	IS – MS835

Standard Data

Ref #	Description

Columns: RXi 5ms

SW-846/EPA Method 8270C/625 / Bethiol/Resorc.

Initial Cal. Method EJ615 MS / EJ629 (BENTRES)

Calibration Date: 9/23/09 / 10/08/09

Injection Volume: 1 µl

Solvent ID #: OP09/0/2-511

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13836	1	dfopp	dfopp				✓	10:36Am	Sc
2	37	2	CC615-50	8270 PONS				✓	8270	
3	38	3	CC629-50					✓	Bethiol + Resorcinol.	
4	39	4	OP13250-MB		W	13250	1	✓		
	40	5	T39646-5, 40X				40	✓	phenol, 2-methyl, 4-methylphenol, 3,4-dimethyl	
	41	6	-3, 40X				40	✓	phenol, 4-methylphenol, ↑	
	42	7	-3, 400X				400	✓		
	43	8	-5, 400X				400	✓		
	44	9	wash				—	✓		
	45	10	T39513-8, 40X		W	13230	40	✓	phenol, 2,4-cresol	
	46	11	-8, 800X				800	✓		
	47	12	T39646-1, 4X		W	13250	4	✓	3-methylphenol, 2,4-dimethylphenol, naph, ↑ Bethiol 11.69 (J13847A)	
	48	13	-2, 800X				800	✓	for phenol, 2,4-cresols.	
	49	14	-4				1	✓	naph, 1-MN, acenaphthene ↑ ~~Bethiol 11.69 (J13847A)~~	
	50	15	-6, 5X				5	✓	for acenaphthene	Sc 10/16/09
	51	16	-7, 4X				4	✓	for acenaphthene	
	52	17	-9, 5X				5	✓	for acenaphthene	
	53	18	-10, 40X				40	✓	for 2,4-dimethylphenol	
	54	19	T39675-2 SC 10/16/09				1	✓	8270TCL	
	55	20	-2				1	✓		

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ635

Date: 10/15/2009 P.2 of 2

Analyst Signature: Sheila Cheng

Standard Data		Standard Data	
Ref #	Description	Ref #	Description
4	IS-MS835		

Columns: see page 97
SW-846/EPA Method
Initial Cal. Method
Calibration Date:
Injection Volume:
Solvent ID #:
Solvent:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
4	J13856	21	T39675-3	8270JPONS	W	13250	1	✓		SC
	57	22	-4				1	✓		
	58	23	-6				1	✓	9:13PM	
	59	24	-5,20X				20	✓	need RRX1, 9:42PM used for hexachlorobutadiene	
	60	25	T39645-2				1	✓	10:12PM for 4-chloroaniline only	
	61	26	-3,10X				10	X	10:41PM, 4-chloroaniline	
	62	27	-6,10X				10	X		

SC 10/15/2009

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST Laboratories T39646

BNA LIQUID SAMPLE PREP REPORT

Date: 10/14/09 Method: EPA 3510C Batch#: OP13250/OP13271/ BB270SLSIM 10/15/09 SC

Analyst: MA

AB8270

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	42712	1.0ml		1.0	
BS						0.5ml		8270
BSD								Bzthiol-
BS								2,-sorcinol
BSD								
T39646-1	2	1000	7					
2	2							
3	2							* Bad Emulsion
4	1							
5	1							*
6	2							
7	2							
8	2	1000						
9	2							
10	2							
11	2							
T39645-2	3							
3	2							
6	3							
T39675-1	1	1000						
2	1							
3	1							
4	1							
5	1							
6	1							
MS	1	500				0.5ml		T39646-8
MSD								

Surrogate ID: E2201 Conc: 100/50ppm Exp. Date: 3/18/10 Bath Temp #1.: 42°C

Spike ID: MS090922A3 Conc: 100ug/ml Exp. Date: 7/2010 Bath Temp.#2: N/A

Bath Temp.#3: N/A

Methylene Chloride ID #: OP090928Aq Dried Sodium Sulfate ID#: 23-OP-32-01

1:1 Sulfuric Acid ID # 23-OP-30-2 10 N Sodium Hydroxide # OP090901A

Comments:

Relinquished By: Margarita Acosta Date: 10/14/09

Accepted By: Sherita Cheng Date: 10/14/09

P.79

Form: OP006, Rev. 02/06/06, QAO

BNA LIQUID SAMPLE PREP REPORT

Date: 10/14/09 Method: EPA 3510C Batch#: OP13250/OP13271/ BB2705LSIM

Analyst: MA 10/15/09 SC

AB8270

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	42712	1.0ml		1.0	
BS						0.5ml		8270
BSD								Bzthiol-
BS								2,4-Dichlorophenol
BSD								
T39646-1	2	1000	7					
2	2							
3	2							* Bad Emulsion
4	1							
5	1							*
6	2							
7	2							
8	2	1000						
9	2							
10	2							
11	2							
T39645-2	3							
3	2							
6	3							
T39675-1	1	1000						
2	1							
3	1							
4	1							
5	1							
6	1							
MS	1	500				0.5ml		T39646-8
MSD								

Surrogate ID: E2201 Conc: 100/50ppm Exp. Date: 3/18/10 Bath Temp #1.: 42°C

Spike ID: MS090922A3 Conc: 100ug/ml Exp. Date: 7/2010 Bath Temp.#2: N/A

Bath Temp.#3: N/A

Methylene Chloride ID #: OP090928Aq Dried Sodium Sulfate ID#: 23-OP-32-01

1:1 Sulfuric Acid ID # 23-OP-30-2 10 N Sodium Hydroxide # OP090901A

Comments:

Relinquished By: Margarita Acosta Date: 10/14/09

Accepted By: Sherita Cheng Date: 10/14/09

P.79

Form: OP006, Rev. 02/06/06, QAO

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:02	MA4343-STD1	1		STDA
09:09	MA4343-STD2	1		STDC
09:14	MA4343-STD3	1		STDE
09:19	MA4343-STD4	1		STDB
09:26	MA4343-STD5	1		STDD
10:19	MA4343-HSTD1	1		
10:25	MA4343-ICV1	1		
10:45	MA4343-ICB1	1		
10:51	MA4343-CRI1	1		
10:57	MA4343-ICSA1	1		
11:03	MA4343-ICSAB1	1		
11:11	MA4343-CCV1	1		
11:23	MA4343-CCB1	1		
11:29	MP10461-MB1	1		
11:38	MP10461-B1	1		
11:45	T39637-1	1		(sample used for QC only; not part of login T39646)
11:51	MP10461-D1	1		
11:57	MP10461-SD1	5		
12:04	MP10461-S1	1		
12:10	MP10461-S2	1		
12:16	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:37	MA4343-CCV2	1		
12:48	MA4343-CCB2	1		
12:54	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:38	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:44	ZZZZZZ	1		
13:52	MA4343-CCV3	1		
14:02	MA4343-CCB3	1		
14:08	MA4343-CRI2	1		
14:14	MA4343-ICSA2	1		
14:20	MA4343-ICSAB2	1		
14:28	MA4343-CCV4	1		
14:42	MA4343-CCB4	1		
15:14	MP10480-MB1	1		
15:21	MP10480-B1	1		
15:27	T39408-1	1		(sample used for QC only; not part of login T39646)
15:34	MP10480-D1	1		
15:40	MP10480-SD1	5		
15:47	MP10480-S1	1		
15:53	MP10480-S2	1		
16:01	MA4343-CCV5	1		
16:11	MA4343-CCB5	1		
16:18	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:50	ZZZZZZ	5		
16:57	ZZZZZZ	1		
17:03	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:18	MA4343-CCV6	1		
17:29	MA4343-CCB6	1		
17:36	MP10479-MB1	1		
17:42	MP10479-LC1	1		
17:49	T39519-15	1		(sample used for QC only; not part of login T39646)
17:55	MP10479-D1	1		
18:02	MP10479-SD1	5		
18:08	MP10479-S1	1		
18:15	MP10479-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:21	ZZZZZZ	1		
18:28	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:42	MA4343-CCV7	1		
18:54	MA4343-CCB7	1		
19:00	ZZZZZZ	1		
19:07	ZZZZZZ	1		
19:13	ZZZZZZ	1		
19:20	ZZZZZZ	1		
19:26	ZZZZZZ	1		
19:33	ZZZZZZ	1		
19:39	ZZZZZZ	1		
19:46	ZZZZZZ	1		
19:52	ZZZZZZ	1		
19:59	ZZZZZZ	1		
20:07	MA4343-CCV8	1		
20:19	MA4343-CCB8	1		
21:31	MA4343-CCV9	1		
21:43	MA4343-CCB9	1		
22:56	MA4343-CCV10	1		
23:08	MA4343-CCB10	1		
23:55	MA4343-CCV11	1		
00:06	MA4343-CCB11	1		
00:13	MP10470-MB1	1		
00:19	MP10470-B1	1		
00:26	T39394-13	1		(sample used for QC only; not part of login T39646)
00:32	MP10470-D1	1		
00:39	MP10470-SD1	5		
00:45	MP10470-S1	1		
00:52	MP10470-S2	1		
00:58	ZZZZZZ	1		
01:05	ZZZZZZ	5		
01:19	MA4343-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:31	MA4343-CCB12	1		
01:38	ZZZZZZ	100		
01:44	ZZZZZZ	5		
01:57	ZZZZZZ	100		
02:03	ZZZZZZ	5		
02:10	ZZZZZZ	10		
02:16	ZZZZZZ	10		
02:23	ZZZZZZ	100		
02:29	ZZZZZZ	10		
02:36	ZZZZZZ	50		
02:44	MA4343-CCV13	1		
02:56	MA4343-CCB13	1		
03:02	ZZZZZZ	100		
03:10	MA4343-CCV14	1		
03:22	MA4343-CCB14	1		
03:29	MP10445-MB1	1		
03:35	MP10445-B1	1		
---------->	Last reportable sample/prep for job T39646			
04:14	ZZZZZZ	1		
04:21	ZZZZZZ	1		
04:27	ZZZZZZ	1		
04:35	MA4343-CCV15	1		
04:49	MA4343-CCB15	1		
---------->	Last reportable CCB for job T39646			
05:02	ZZZZZZ	1		
05:08	ZZZZZZ	1		
05:15	ZZZZZZ	1		
05:21	ZZZZZZ	1		
05:28	ZZZZZZ	1		
05:34	ZZZZZZ	1		
05:41	ZZZZZZ	1		
05:47	ZZZZZZ	1		
06:02	MA4343-CCV16	1		
06:13	MA4343-CCB16	1		
06:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:52	ZZZZZZ	1		
07:01	MA4343-CCV17	1		
07:12	MA4343-CCB17	1		
07:19	MP10457-MB1	1		
07:25	MP10457-LC1	1		
08:04	ZZZZZZ	1		
08:11	ZZZZZZ	1		
08:17	ZZZZZZ	1		
08:25	MA4343-CCV18	1		
08:37	MA4343-CCB18	1		
08:44	ZZZZZZ	1		
08:50	ZZZZZZ	1		
08:57	ZZZZZZ	1		
09:03	ZZZZZZ	1		
09:10	ZZZZZZ	1		
09:16	ZZZZZZ	1		
09:23	ZZZZZZ	1		
09:31	MA4343-CCV19	1		
09:43	MA4343-CCB19	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Istd#1
09:02	MA4343-STD1	44539 R
09:09	MA4343-STD2	44884
09:14	MA4343-STD3	43743
09:19	MA4343-STD4	44623
09:26	MA4343-STD5	44421
10:19	MA4343-HSTD1	44058
10:25	MA4343-ICV1	45461
10:45	MA4343-ICB1	45376
10:51	MA4343-CRI1	45037
10:57	MA4343-ICSA1	41899
11:03	MA4343-ICSAB1	41516
11:11	MA4343-CCV1	44698
11:23	MA4343-CCB1	45346
11:29	MP10461-MB1	45526
11:38	MP10461-B1	45083
11:45	T39637-1	45171
11:51	MP10461-D1	45077
11:57	MP10461-SD1	45704
12:04	MP10461-S1	44080
12:10	MP10461-S2	44204
12:16	ZZZZZZ	44781
12:22	ZZZZZZ	44648
12:29	ZZZZZZ	45018
12:37	MA4343-CCV2	44715
12:48	MA4343-CCB2	45176
12:54	ZZZZZZ	45523
13:00	ZZZZZZ	45041
13:07	ZZZZZZ	44627
13:13	ZZZZZZ	43547
13:19	ZZZZZZ	45569
13:25	ZZZZZZ	44882
13:32	ZZZZZZ	45428
13:38	ZZZZZZ	44741

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Istd#1
13:44	ZZZZZZ	44434
13:52	MA4343-CCV3	44297
14:02	MA4343-CCB3	44689
14:08	MA4343-CRI2	44915
14:14	MA4343-ICSA2	40917
14:20	MA4343-ICSAB2	41365
14:28	MA4343-CCV4	44347
14:42	MA4343-CCB4	44947
15:14	MP10480-MB1	44603
15:21	MP10480-B1	44420
15:27	T39408-1	41860
15:34	MP10480-D1	41657
15:40	MP10480-SD1	43828
15:47	MP10480-S1	41465
15:53	MP10480-S2	41332
16:01	MA4343-CCV5	44093
16:11	MA4343-CCB5	44402
16:18	ZZZZZZ	43494
16:37	ZZZZZZ	43513
16:44	ZZZZZZ	44588
16:50	ZZZZZZ	44531
16:57	ZZZZZZ	43155
17:03	ZZZZZZ	44641
17:10	ZZZZZZ	44597
17:18	MA4343-CCV6	43986
17:29	MA4343-CCB6	44670
17:36	MP10479-MB1	44876
17:42	MP10479-LC1	46665
17:49	T39519-15	48155
17:55	MP10479-D1	47885
18:02	MP10479-SD1	45937
18:08	MP10479-S1	46577
18:15	MP10479-S2	46969

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Istd#1
18:21	ZZZZZZ	44878
18:28	ZZZZZZ	44165
18:34	ZZZZZZ	44649
18:42	MA4343-CCV7	44289
18:54	MA4343-CCB7	44738
19:00	ZZZZZZ	44262
19:07	ZZZZZZ	46159
19:13	ZZZZZZ	41625
19:20	ZZZZZZ	45482
19:26	ZZZZZZ	50235
19:33	ZZZZZZ	48926
19:39	ZZZZZZ	47292
19:46	ZZZZZZ	48487
19:52	ZZZZZZ	48632
19:59	ZZZZZZ	49134
20:07	MA4343-CCV8	44399
20:19	MA4343-CCB8	45036
21:31	MA4343-CCV9	44453
21:43	MA4343-CCB9	44841
22:56	MA4343-CCV10	44545
23:08	MA4343-CCB10	45155
23:55	MA4343-CCV11	44357
00:06	MA4343-CCB11	44917
00:13	MP10470-MB1	45133
00:19	MP10470-B1	44286
00:26	T39394-13	44627
00:32	MP10470-D1	44808
00:39	MP10470-SD1	45142
00:45	MP10470-S1	43813
00:52	MP10470-S2	44419
00:58	ZZZZZZ	43381
01:05	ZZZZZZ	37811
01:19	MA4343-CCV12	44378

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Istd#1
01:31	MA4343-CCB12	45016
01:38	ZZZZZZ	44105
01:44	ZZZZZZ	39244
01:57	ZZZZZZ	44058
02:03	ZZZZZZ	41818
02:10	ZZZZZZ	43068
02:16	ZZZZZZ	40416
02:23	ZZZZZZ	44254
02:29	ZZZZZZ	41278
02:36	ZZZZZZ	
02:44	MA4343-CCV13	44208
02:56	MA4343-CCB13	44930
03:02	ZZZZZZ	43833
03:10	MA4343-CCV14	44050
03:22	MA4343-CCB14	44894
03:29	MP10445-MB1	44894
03:35	MP10445-B1	44065
04:14	ZZZZZZ	43133
04:21	ZZZZZZ	44064
04:27	ZZZZZZ	43518
04:35	MA4343-CCV15	44068
04:49	MA4343-CCB15	44833
05:02	ZZZZZZ	42484
05:08	ZZZZZZ	43312
05:15	ZZZZZZ	43709
05:21	ZZZZZZ	44697
05:28	ZZZZZZ	44765
05:34	ZZZZZZ	44490
05:41	ZZZZZZ	44629
05:47	ZZZZZZ	44636
06:02	MA4343-CCV16	44364
06:13	MA4343-CCB16	45165
06:46	ZZZZZZ	38079

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
Analyst: NS Run ID: MA4343
Parameters: Na

Time	Sample Description	Istd#1
06:52	ZZZZZZ	38207
07:01	MA4343-CCV17	44199
07:12	MA4343-CCB17	44917
07:19	MP10457-MB1	45252
07:25	MP10457-LC1	48066
08:04	ZZZZZZ	41025
08:11	ZZZZZZ	43283
08:17	ZZZZZZ	43114
08:25	MA4343-CCV18	44688
08:37	MA4343-CCB18	45418
08:44	ZZZZZZ	46491
08:50	ZZZZZZ	44416
08:57	ZZZZZZ	45105
09:03	ZZZZZZ	44570
09:10	ZZZZZZ	44327
09:16	ZZZZZZ	46533
09:23	ZZZZZZ	43919
09:31	MA4343-CCV19	44772
09:43	MA4343-CCB19	45227

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA4343 Units: ug/l

Time:			10:45		11:23		12:48		14:02	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	16	anr							
Antimony	5.0	2.3	anr							
Arsenic	5.0	1.8	anr							
Barium	200	.14	anr							
Beryllium	5.0	.11								
Boron	100	1.1								
Cadmium	4.0	.25	anr							
Calcium	5000	5.4	anr							
Chromium	10	1.1	anr							
Cobalt	50	.5	anr							
Copper	25	.58	anr							
Iron	100	13	anr							
Lead	3.0	1.6	anr							
Magnesium	5000	6.7	anr							
Manganese	15	.2	anr							
Molybdenum	10	.96								
Nickel	40	.95	anr							
Potassium	5000	53	anr							
Selenium	5.0	3.2	anr							
Silver	10	.85	anr							
Sodium	5000	130	-30	<5000	-42	<5000	-54	<5000	57.4	<5000
Strontium	10	.17	anr							
Thallium	10	3.2								
Tin	20	1.8	anr							
Titanium	10	.3	anr							
Vanadium	50	.6	anr							
Zinc	20	.49	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA4343 Units: ug/l

Time:			14:42		16:11		17:29		18:54	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	16	anr							
Antimony	5.0	2.3	anr							
Arsenic	5.0	1.8	anr							
Barium	200	.14	anr							
Beryllium	5.0	.11								
Boron	100	1.1								
Cadmium	4.0	.25	anr							
Calcium	5000	5.4	anr							
Chromium	10	1.1	anr							
Cobalt	50	.5	anr							
Copper	25	.58	anr							
Iron	100	13	anr							
Lead	3.0	1.6	anr							
Magnesium	5000	6.7	anr							
Manganese	15	.2	anr							
Molybdenum	10	.96								
Nickel	40	.95	anr							
Potassium	5000	53	anr							
Selenium	5.0	3.2	anr							
Silver	10	.85	anr							
Sodium	5000	130	-69	<5000	-47	<5000	-36	<5000	-10	<5000
Strontium	10	.17	anr							
Thallium	10	3.2								
Tin	20	1.8	anr							
Titanium	10	.3	anr							
Vanadium	50	.6	anr							
Zinc	20	.49	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA4343 Units: ug/l

Time:			20:19		21:43		23:08		00:06	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	16	anr							
Antimony	5.0	2.3	anr							
Arsenic	5.0	1.8	anr							
Barium	200	.14	anr							
Beryllium	5.0	.11								
Boron	100	1.1								
Cadmium	4.0	.25	anr							
Calcium	5000	5.4	anr							
Chromium	10	1.1	anr							
Cobalt	50	.5	anr							
Copper	25	.58	anr							
Iron	100	13	anr							
Lead	3.0	1.6	anr							
Magnesium	5000	6.7	anr							
Manganese	15	.2	anr							
Molybdenum	10	.96								
Nickel	40	.95	anr							
Potassium	5000	53	anr							
Selenium	5.0	3.2	anr							
Silver	10	.85	anr							
Sodium	5000	130	-83	<5000	-87	<5000	-30	<5000	-63	<5000
Strontium	10	.17	anr							
Thallium	10	3.2								
Tin	20	1.8	anr							
Titanium	10	.3	anr							
Vanadium	50	.6	anr							
Zinc	20	.49	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA4343 Units: ug/l

Time:			01:31		02:56		03:22		04:49	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	16	anr							
Antimony	5.0	2.3	anr							
Arsenic	5.0	1.8	anr							
Barium	200	.14	anr							
Beryllium	5.0	.11								
Boron	100	1.1								
Cadmium	4.0	.25	anr							
Calcium	5000	5.4	anr							
Chromium	10	1.1	anr							
Cobalt	50	.5	anr							
Copper	25	.58	anr							
Iron	100	13	anr							
Lead	3.0	1.6	anr							
Magnesium	5000	6.7	anr							
Manganese	15	.2	anr							
Molybdenum	10	.96								
Nickel	40	.95	anr							
Potassium	5000	53	anr							
Selenium	5.0	3.2	anr							
Silver	10	.85	anr							
Sodium	5000	130	-24	<5000	69.4	<5000	71.4	<5000	36.9	<5000
Strontium	10	.17	anr							
Thallium	10	3.2								
Tin	20	1.8	anr							
Titanium	10	.3	anr							
Vanadium	50	.6	anr							
Zinc	20	.49	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		10:25			11:11			12:37	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	5000	4890	97.8	40000	38500	96.3	40000	39900	99.8
Strontium	anr								
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		13:52			14:28			16:01	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39500	98.8	40000	40000	100.0	40000	40100	100.3
Strontium	anr								
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		17:18			18:42			20:07	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40300	100.8	40000	40600	101.5	40000	40700	101.8
Strontium	anr								
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		21:31			22:56			23:55	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40600	101.5	40000	40900	102.3	40000	40600	101.5
Strontium	anr								
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		01:19			02:44			03:10	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	41000	102.5	40000	41400	103.5	40000	40800	102.0
Strontium	anr								
Thallium									
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		04:35	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium			
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	40000	41000	102.5
Strontium	anr		
Thallium			
Tin	anr		
Titanium	anr		
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4343 Units: ug/l

Time:		10:19	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium			
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	80000	79500	99.4
Strontium	anr		
Thallium			
Tin	anr		
Titanium	anr		
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA4343 Units: ug/l

Time:			10:51		14:08	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	200	200	anr			
Antimony	5.0	5.0	anr			
Arsenic	5.0	5.0	anr			
Barium	200	200	anr			
Beryllium	5.0	5.0				
Boron	100	100				
Cadmium	4.0	4.0	anr			
Calcium	5000	5000	anr			
Chromium	10	10	anr			
Cobalt	50	50	anr			
Copper	25	25	anr			
Iron	100	100	anr			
Lead	3.0	3.0	anr			
Magnesium	5000	5000	anr			
Manganese	15	15	anr			
Molybdenum	10	10				
Nickel	40	40	anr			
Potassium	5000	5000	anr			
Selenium	5.0	5.0	anr			
Silver	10	10	anr			
Sodium	5000	5000	4860	97.2	5040	100.8
Strontium	20	20	anr			
Thallium	10	10				
Tin	20	20	anr			
Titanium	20	20	anr			
Vanadium	50	50	anr			
Zinc	20	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101709.ASC Date Analyzed: 10/17/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA4343 Units: ug/l

Time:			10:57		11:03		14:14		14:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	501000	100.2	504000	100.8	516000	103.2	511000	102.2
Antimony		1000	2.8		1050	105.0	3.8		1050	105.0
Arsenic		500	1.8		532	106.4	1.7		540	108.0
Barium		500	2.1		532	106.4	2.2		543	108.6
Beryllium		500	-0.10		509	101.8	-0.090		514	102.8
Boron			-61		-67		-62		-65	
Cadmium		1000	-1.5		966	96.6	-1.2		973	97.3
Calcium	500000	500000	514000	102.8	520000	104.0	532000	106.4	523000	104.6
Chromium		500	6.5		504	100.8	6.3		508	101.6
Cobalt		500	-1.3		499	99.8	-1.3		502	100.4
Copper		500	-5.6		530	106.0	-5.7		540	108.0
Iron	200000	200000	199000	99.5	203000	101.5	205000	102.5	204000	102.0
Lead		500	-3.6		497	99.4	-3.9		500	100.0
Magnesium	500000	500000	519000	103.8	525000	105.0	537000	107.4	531000	106.2
Manganese		500	-1.8		513	102.6	-1.6		516	103.2
Molybdenum		500	15.8		531	106.2	17.9		536	107.2
Nickel		1000	-0.36		931	93.1	0.31		938	93.8
Potassium			772		823		850		809	
Selenium		500	-0.70		517	103.4	-2.7		521	104.2
Silver		1000	2.8		1080	108.0	2.9		1090	109.0
Sodium			95.4		89.4		99.2		143	
Strontium			0.43		0.34		0.42		0.40	
Thallium		500	5.4		474	94.8	5.8		478	95.6
Tin			-6.2		-8.2		-7.5		-7.0	
Titanium			2.4		2.3		2.3		2.3	
Vanadium		500	0.0		506	101.2	-0.31		511	102.2
Zinc		1000	-1.9		1070	107.0	-1.1		1080	108.0

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:50	MA4345-STD1	1		STDA
09:57	MA4345-STD2	1		STDC
10:02	MA4345-STD3	1		STDE
10:07	MA4345-STD4	1		STDB
10:14	MA4345-STD5	1		STDD
11:19	MA4345-HSTD1	1		
11:26	MA4345-ICV1	1		
11:42	MA4345-ICB1	1		
11:49	MA4345-CRI1	1		
11:55	MA4345-ICSA1	1		
12:02	MA4345-ICSAB1	1		
12:10	MA4345-CCV1	1		
12:23	MA4345-CCB1	1		
12:30	ZZZZZZ	5		
12:36	ZZZZZZ	200		
12:43	ZZZZZZ	200		
12:49	ZZZZZZ	100		
12:56	ZZZZZZ	200		
13:02	ZZZZZZ	200		
13:10	MA4345-CCV2	1		
13:25	MA4345-CCB2	1		
13:39	ZZZZZZ	10		
13:50	ZZZZZZ	10		
14:07	ZZZZZZ	5		
14:15	MA4345-CCV3	1		
14:23	MA4345-CCB3	1		
14:42	T39513-1	50		(sample used for QC only; not part of login T39646)
14:49	MP10445-D1	50		
14:55	MP10445-SD1	250		
15:02	MP10445-S1	50		
15:08	MP10445-S2	50		
15:20	ZZZZZZ	5		
15:26	ZZZZZZ	50		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	15:54	MA4345-CCV4	1		
	16:07	MA4345-CCB4	1		
	16:14	ZZZZZZ	50		
	16:27	T39646-1	50		
	16:34	T39646-2	50		
---------->	Last reportable sample/prep for job T39646				
	16:42	MA4345-CCV5	1		
	17:03	MA4345-CCB5	1		
---------->	Last reportable CCB for job T39646				
	17:14	T39207-1	50		(sample used for QC only; not part of login T39646)
	17:20	MP10457-D1	50		
	17:27	MP10457-SD1	250		
	17:33	MP10457-S1	50		
	17:40	MP10457-S2	50		
	17:59	ZZZZZZ	50		
	18:20	MA4345-CCV6	1		
	18:32	MA4345-CCB6	1		
	18:38	MP10452-MB1	1		
	18:45	MP10452-B1	1		
	18:51	T39424-1	1		(sample used for QC only; not part of login T39646)
	18:58	MP10452-D1	1		
	19:04	MP10452-SD1	5		
	19:11	MP10452-S1	1		
	19:17	MP10452-S2	1		
	19:24	ZZZZZZ	1		
	19:30	ZZZZZZ	1		
	19:36	ZZZZZZ	1		
	19:45	MA4345-CCV7	1		
	19:56	MA4345-CCB7	1		
	20:03	ZZZZZZ	1		
	20:09	ZZZZZZ	1		
	20:16	ZZZZZZ	1		
	20:22	ZZZZZZ	1		
	20:29	ZZZZZZ	1		
	20:35	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:42	ZZZZZZ	5		
20:48	ZZZZZZ	1		
20:55	ZZZZZZ	1		
21:01	ZZZZZZ	1		
21:09	MA4345-CCV8	1		
21:21	MA4345-CCB8	1		
21:27	ZZZZZZ	1		
21:34	ZZZZZZ	1		
21:40	ZZZZZZ	1		
21:49	MA4345-CCV9	1		
22:02	MA4345-CCB9	1		
22:08	MP10477-MB1	1		
22:15	MP10477-B1	1		
22:21	T38967-1R	1		(sample used for QC only; not part of login T39646)
22:28	MP10477-D1	1		
22:34	MP10477-SD1	5		
22:41	MP10477-S1	1		
22:47	MP10477-S2	1		
22:54	ZZZZZZ	1		
23:02	MA4345-CCV10	1		
23:14	MA4345-CCB10	1		
23:20	MP10464-MB1	1		
23:27	MP10464-B1	1		
23:33	MP10464-B2	1		
23:40	ZZZZZZ	1		
23:48	MA4345-CCV11	1		
23:59	MA4345-CCB11	1		
00:06	MP10481-MB	1		
00:12	T39648-1C	5		(sample used for QC only; not part of login T39646)
00:19	MP10481-D1	5		
00:25	ZZZZZZ	5		
00:32	ZZZZZZ	5		
00:38	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:47	MA4345-CCV12	1		
00:58	MA4345-CCB12	1		
01:05	MP10484-MB	1		
01:11	MP10484-LCS	1		
01:50	ZZZZZZ	5		
01:58	MA4345-CCV13	1		
02:10	MA4345-CCB13	1		
02:16	MP10486-MB1	1		
02:23	MP10486-LC1	1		
02:29	T39522-8	1		(sample used for QC only; not part of login T39646)
02:36	MP10486-D1	1		
02:42	MP10486-SD1	5		
02:49	MP10486-S1	1		
02:55	MP10486-S2	1		
03:02	ZZZZZZ	1		
03:08	ZZZZZZ	1		
03:15	ZZZZZZ	1		
03:23	MA4345-CCV14	1		
08:51	MA4345-CCB14	1		
08:58	MA4345-CCV15	1		
09:09	MA4345-CCB15	1		
09:15	ZZZZZZ	1		
09:22	ZZZZZZ	1		
09:28	ZZZZZZ	1		
09:34	ZZZZZZ	1		
09:41	ZZZZZZ	1		
09:47	ZZZZZZ	1		
10:07	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:36	MA4345-CCV16	1		
10:47	MA4345-CCB16	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:53	ZZZZZZ	1		
11:01	MA4345-CCV17	1		
11:15	MA4345-CCB17	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Istd#1
09:50	MA4345-STD1	43996 R
09:57	MA4345-STD2	43610
10:02	MA4345-STD3	42963
10:07	MA4345-STD4	43786
10:14	MA4345-STD5	43821
11:19	MA4345-HSTD1	42959
11:26	MA4345-ICV1	43747
11:42	MA4345-ICB1	43942
11:49	MA4345-CRI1	44005
11:55	MA4345-ICSA1	40203
12:02	MA4345-ICSAB1	40435
12:10	MA4345-CCV1	43492
12:23	MA4345-CCB1	43997
12:30	ZZZZZZ	43894
12:36	ZZZZZZ	43545
12:43	ZZZZZZ	43827
12:49	ZZZZZZ	43773
12:56	ZZZZZZ	43659
13:02	ZZZZZZ	43571
13:10	MA4345-CCV2	43291
13:25	MA4345-CCB2	43750
13:39	ZZZZZZ	43552
13:50	ZZZZZZ	43117
14:07	ZZZZZZ	42101
14:15	MA4345-CCV3	42875
14:23	MA4345-CCB3	43842
14:42	T39513-1	43086
14:49	MP10445-D1	42936
14:55	MP10445-SD1	43028
15:02	MP10445-S1	42911
15:08	MP10445-S2	42940
15:20	ZZZZZZ	43129
15:26	ZZZZZZ	43368

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Istd#1
15:54	MA4345-CCV4	42669
16:07	MA4345-CCB4	43011
16:14	ZZZZZZ	42626
16:27	T39646-1	43374
16:34	T39646-2	42379
16:42	MA4345-CCV5	42065
17:03	MA4345-CCB5	42808
17:14	T39207-1	42822
17:20	MP10457-D1	43209
17:27	MP10457-SD1	43059
17:33	MP10457-S1	43054
17:40	MP10457-S2	42494
17:59	ZZZZZZ	43507
18:20	MA4345-CCV6	42740
18:32	MA4345-CCB6	44010
18:38	MP10452-MB1	43451
18:45	MP10452-B1	43320
18:51	T39424-1	42200
18:58	MP10452-D1	42752
19:04	MP10452-SD1	43850
19:11	MP10452-S1	42081
19:17	MP10452-S2	42205
19:24	ZZZZZZ	43505
19:30	ZZZZZZ	43470
19:36	ZZZZZZ	43359
19:45	MA4345-CCV7	43483
19:56	MA4345-CCB7	44246
20:03	ZZZZZZ	44054
20:09	ZZZZZZ	43038
20:16	ZZZZZZ	44427
20:22	ZZZZZZ	43341
20:29	ZZZZZZ	43600
20:35	ZZZZZZ	43263

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Istd#1
20:42	ZZZZZZ	43839
20:48	ZZZZZZ	43719
20:55	ZZZZZZ	43183
21:01	ZZZZZZ	43608
21:09	MA4345-CCV8	43244
21:21	MA4345-CCB8	44392
21:27	ZZZZZZ	42741
21:34	ZZZZZZ	42730
21:40	ZZZZZZ	43922
21:49	MA4345-CCV9	43664
22:02	MA4345-CCB9	44186
22:08	MP10477-MB1	44158
22:15	MP10477-B1	43663
22:21	T38967-1R	43732
22:28	MP10477-D1	43881
22:34	MP10477-SD1	44141
22:41	MP10477-S1	43939
22:47	MP10477-S2	43555
22:54	ZZZZZZ	43714
23:02	MA4345-CCV10	43433
23:14	MA4345-CCB10	44505
23:20	MP10464-MB1	43844
23:27	MP10464-B1	43769
23:33	MP10464-B2	43947
23:40	ZZZZZZ	43656
23:48	MA4345-CCV11	43412
23:59	MA4345-CCB11	43911
00:06	MP10481-MB	44049
00:12	T39648-1C	42844
00:19	MP10481-D1	43177
00:25	ZZZZZZ	43609
00:32	ZZZZZZ	43131
00:38	ZZZZZZ	41997

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Istd#1
00:47	MA4345-CCV12	42718
00:58	MA4345-CCB12	43869
01:05	MP10484-MB	41835
01:11	MP10484-LCS	41587
01:50	ZZZZZZ	44758
01:58	MA4345-CCV13	42882
02:10	MA4345-CCB13	44046
02:16	MP10486-MB1	43410
02:23	MP10486-LC1	47031
02:29	T39522-8	49251
02:36	MP10486-D1	48934
02:42	MP10486-SD1	45172
02:49	MP10486-S1	47934
02:55	MP10486-S2	48226
03:02	ZZZZZZ	49894
03:08	ZZZZZZ	51194
03:15	ZZZZZZ	49978
03:23	MA4345-CCV14	45794
08:51	MA4345-CCB14	41772
08:58	MA4345-CCV15	41685
09:09	MA4345-CCB15	42360
09:15	ZZZZZZ	44495
09:22	ZZZZZZ	44425
09:28	ZZZZZZ	47766
09:34	ZZZZZZ	45759
09:41	ZZZZZZ	47617
09:47	ZZZZZZ	47708
10:07	ZZZZZZ	44298
10:15	ZZZZZZ	47365
10:22	ZZZZZZ	45963
10:28	ZZZZZZ	47375
10:36	MA4345-CCV16	42363
10:47	MA4345-CCB16	43225

INTERNAL STANDARD SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
Analyst: NS Run ID: MA4345
Parameters: Na

Time	Sample Description	Istd#1
10:53	ZZZZZZ	46347
11:01	MA4345-CCV17	42503
11:15	MA4345-CCB17	43156

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

9.2.1

9

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA4345 Units: ug/l

Time:			11:42		12:23		13:25		14:23	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	16								
Antimony	5.0	2.3								
Arsenic	5.0	1.8								
Barium	200	.14								
Beryllium	5.0	.11								
Boron	100	1.1								
Cadmium	4.0	.25								
Calcium	5000	5.4								
Chromium	10	1.1								
Cobalt	50	.5								
Copper	25	.58								
Iron	100	13								
Lead	3.0	1.6								
Magnesium	5000	6.7								
Manganese	15	.2								
Molybdenum	10	.96								
Nickel	40	.95								
Potassium	5000	53								
Selenium	5.0	3.2								
Silver	10	.85								
Sodium	5000	130	-1.2	<5000	-36	<5000	-38	<5000	-14	<5000
Strontium	20	.17								
Thallium	10	3.2								
Tin	20	1.8								
Titanium	20	.3								
Vanadium	50	.6								
Zinc	20	.49								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA4345 Units: ug/l

Time:			16:07		17:03	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	16				
Antimony	5.0	2.3				
Arsenic	5.0	1.8	anr			
Barium	200	.14	anr			
Beryllium	5.0	.11				
Boron	100	1.1				
Cadmium	4.0	.25	anr			
Calcium	5000	5.4	anr			
Chromium	10	1.1	anr			
Cobalt	50	.5				
Copper	25	.58	anr			
Iron	100	13				
Lead	3.0	1.6	anr			
Magnesium	5000	6.7	anr			
Manganese	15	.2				
Molybdenum	10	.96				
Nickel	40	.95	anr			
Potassium	5000	53				
Selenium	5.0	3.2	anr			
Silver	10	.85	anr			
Sodium	5000	130	-31	<5000	-5.4	<5000
Strontium	20	.17				
Thallium	10	3.2				
Tin	20	1.8				
Titanium	20	.3				
Vanadium	50	.6				
Zinc	20	.49				

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA4345 Units: ug/l

Time:		11:26			12:10			13:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	5000	5020	100.4	40000	39200	98.0	40000	39200	98.0
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA4345 Units: ug/l

Time:		14:15			15:54			16:42	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron									
Lead	anr								
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	39300	98.3	40000	39700	99.3	40000	38900	97.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA4345 Units: ug/l

Time:		11:19	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium	80000	80100	100.1
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA4345 Units: ug/l

Time:			11:49	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Aluminum	200	200		
Antimony	5.0	5.0		
Arsenic	5.0	5.0		
Barium	200	200		
Beryllium	5.0	5.0		
Boron	100	100		
Cadmium	4.0	4.0		
Calcium	5000	5000		
Chromium	10	10		
Cobalt	50	50		
Copper	25	25		
Iron	100	100		
Lead	3.0	3.0		
Magnesium	5000	5000		
Manganese	15	15		
Molybdenum	10	10		
Nickel	40	40		
Potassium	5000	5000		
Selenium	5.0	5.0		
Silver	10	10		
Sodium	5000	5000	5060	101.2
Strontium	20	20		
Thallium	10	10		
Tin	20	20		
Titanium	20	20		
Vanadium	50	50		
Zinc	20	20		

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: IR101909.ASC Date Analyzed: 10/19/09 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA4345 Units: ug/l

Time:			11:55		12:02	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	506000HH	101.2	505000HH	101.0
Antimony		1000	6.0		1030	103.0
Arsenic		500	-0.26		523	104.6
Barium		500	1.9		531	106.2
Beryllium		500	-0.18		492	98.4
Boron			-57		-60	
Cadmium		1000	-0.21		935	93.5
Calcium	500000	500000	520000	104.0	508000	101.6
Chromium		500	7.0		489	97.8
Cobalt		500	-0.98		484	96.8
Copper		500	-4.6		536	107.2
Iron	200000	200000	200000	100.0	198000	99.0
Lead		500	-4.3		487	97.4
Magnesium	500000	500000	524000HH	104.8	516000HH	103.2
Manganese		500	-0.10		499	99.8
Molybdenum		500	19.2		522	104.4
Nickel		1000	0.80		901	90.1
Potassium			823		779	
Selenium		500	-0.86		513	102.6
Silver		1000	3.4		1060	106.0
Sodium			61.8		87.8	
Strontium			0.32		0.35	
Thallium		500	8.1		471	94.2
Tin			-7.3		-8.8	
Titanium			2.4		2.2	
Vanadium		500	-1.1		501	100.2
Zinc		1000	-1.6		1050	105.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

QC Batch ID: MP10445
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/13/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	17		
Antimony	5.0	2.3	3		
Arsenic	5.0	1.8	2		
Barium	200	.14	2.7		
Beryllium	5.0	.11	.2		
Boron	100	1.1	2.1		
Cadmium	4.0	.25	.3		
Calcium	5000	5.4	35		
Chromium	10	1.1	1.9		
Cobalt	50	.5	.8		
Copper	25	.58	5.9		
Iron	100	13	13		
Lead	3.0	1.6	1.7		
Magnesium	5000	6.7	7.8		
Manganese	15	.2	7.6		
Molybdenum	10	.96	1.3		
Nickel	40	.95	3.2		
Potassium	5000	53	53		
Selenium	5.0	3.2	3.2		
Silver	10	.85	.8		
Sodium	5000	130	130	59.3	<5000
Strontium	20	.17	.4		
Thallium	10	3.2	2.6		
Tin	20	1.8	2.9		
Titanium	20	.3	.3		
Vanadium	50	.6	.6		
Zinc	20	.49	4.1		

Associated samples MP10445: T39646-1, T39646-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

QC Batch ID: MP10445 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/13/09 10/13/09

Metal	T39513-1 Original	DUP	RPD	QC Limits	T39513-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	7010000	6800000	3.0	0-20	7010000	6910000	50000	-200.0(a	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP10445: T39646-1, T39646-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

QC Batch ID: MP10445 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/13/09

Metal	T39513-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	7010000	6700000	50000	-620.0(a	3.1	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10445: T39646-1, T39646-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

QC Batch ID: MP10445
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/13/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium	51600	50000	103.2	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10445: T39646-1, T39646-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

QC Batch ID: MP10445
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/13/09

Metal	T39513-1 Original	SDL 50:250%DIF		QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	7010000	6870000	2.1	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10445: T39646-1, T39646-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Metals Analysis

Raw Data

Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 1

Method: ICAPNC Sample Name: STDA Operator:
Run Time: 10/17/09 09:02 Filename: R101709
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	count	count	count	count	count	count
Avge	-.00014	.02004	-.00065	.02549	.00075	-.00752
SDev	.00029	.00008	.00109	.00048	.00007	.00003
%RSD	200.849	.41007	168.143	1.89413	10.0661	.51902

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	count	count	count	count	count	count
Avge	.02047	-.00053	-.00015	.00038	.02081	-.00053
SDev	.0003	.00048	.00033	.00006	.00102	.0002
%RSD	1.47598	91.725	224.702	17.2959	4.91965	38.8162

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	count	count	count	count	count	count
Avge	.00434	.00104	.00175	.00048	-.0002	.02108
SDev	0	.00014	.00005	.00021	.00015	.00136
%RSD	.16615	13.5902	3.26179	44.5657	72.716	6.48596

Elems	2203-1	2203-2	2068-1	2068-2	1960-1	1960-2
Units	count	count	count	count	count	count
Avge	.00648	-.00064	.00064	.00055	-.00405	.00364
SDev	.00226	.00175	.00148	.00036	.00019	.00078
%RSD	34.987	273.477	229.895	66.6253	4.72735	21.422

Elems	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2138
Units	count	count	count	count	count	count
Avge	.00124	.08196	-.0001	-.00418	-.00001	.00019
SDev	.00439	.0021	.00002	.00066	.00018	.00005
%RSD	352.35	2.56946	25.2204	15.8348	1174.78	28.7183

◀ Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 2

Method: ICAPNC Sample Name: STDC Operator:
Run Time: 10/17/09 09:09 Filename: R101709
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	2068-1	2068-2
Units	count	count	count
Avge	.60657	3.69035	3.23153
SDev	.00055	.25255	.0508
%RSD	.09166	6.84368	1.57229

◀ Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 3

Method: ICAPNC Sample Name: STDE Operator:
Run Time: 10/17/09 09:14 Filename: R101709
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Units	count	count	count	count	count	count
Avge	2.87861	5.52589	1.7563	.22764	6.43902	.31339
SDev	.00885	.00373	.00419	.00013	.01393	.00024
%RSD	.30759	.06751	.23901	.06026	.21648	.07863

◀ Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 4

Method: ICAPNC Sample Name: STDB Operator:
Run Time: 10/17/09 09:19 Filename: R101709
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	As1890	B_2496	Ba4934	Be3130	Cd2265	Co2286
Units	count	count	count	count	count	count
Avge	2.46967	3.19818	3.98862	9.62701	16.8635	3.23286
SDev	.00181	.00243	.00274	.00139	.01457	.00194
%RSD	.07359	.07624	.06871	.01454	.08641	.06024

Elems	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	2203-1
Units	count	count	count	count	count	count
Avge	1.48949	10.677	14.745	1.72211	6.32524	5.41195
SDev	.00108	.01692	.01235	.01802	.01068	.01103
%RSD	.07292	.15847	.08377	1.0464	.16886	.20393

Elems	2203-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units	count	count	count	count	count	count
Avge	7.16168	1.43266	1.78724	9.9179	259.169	.50515
SDev	.0178	.00124	.00581	.03591	.57685	.00083
%RSD	.24859	.08658	.32528	.36216	.22257	.16454

Elems	Tl1908	Zn2138
Units	count	count
Avge	1.39511	3.5904
SDev	.00241	.00589
%RSD	.17287	.16407

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 5

Method: ICAPNC Sample Name: STDD Operator:
Run Time: 10/17/09 09:26 Filename: R101709
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	V_2924
Units	count
Avge	1.3742
SDev	.03973
%RSD	2.89159

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 6

Method: ICAPNC Sample Name: HSTD Operator:
Run Time: 10/17/09 10:19 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.50053	79.421	3.9841	3.9708	3.9381	3.9670
SDev	.00055	.1821	.00328	.00288	.00286	.00363
%RSD	.11076	.22928	.08253	.07273	.07277	.09159

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	80.105	3.8956	3.9151	3.9176	3.9602	79.751
SDev	.0621	.00182	.00108	.00213	.00665	.07136
%RSD	.07752	.04688	.02777	.05459	.16807	.08948

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	78.589	80.243	3.9230	3.9961	79.47	3.9111
SDev	.19979	.01456	.00157	.02512	.2294	.00452
%RSD	.25422	.01815	.04002	.62869	.2887	.11562

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	3.8738	3.9408	3.9187	3.9733	4.1314	4.1663
SDev	.00111	.011	.00737	.01813	.10195	.13342
%RSD	.02872	.27937	.18818	.45641	2.4679	3.2026

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	4.0610	3.9867	3.9664	3.961	3.911	3.9352
SDev	.03905	.01014	.02217	.0109	.0051	.00423
%RSD	.9618	.25455	.55916	.274	.1309	.10762

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	3.8783	3.9234	3.9049
SDev	.06366	.00151	.0011
%RSD	1.6416	.0387	.02825

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 7

Method: ICAPNC Sample Name: ICV Operator:
Run Time: 10/17/09 10:25 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.50428	4.8493	1.0008	.99202	1.0006	1.0200
SDev	.00025	.00443	.00214	.0003	.00059	.00167
%RSD	.04984	.09145	.2148	.0305	.05981	.16384

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.7991	1.0062	.99588	.99498	.97878	4.8250
SDev	.00781	.0014	.00106	.00126	.00038	.01243
%RSD	.16276	.14001	.10729	.12681	.03957	.25779

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.8321	4.8148	.99677	1.0133	4.887	1.0024
SDev	.00676	.00656	.0014	.00538	.0121	.00096
%RSD	.14002	.13641	.14054	.53098	.2477	.09603

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.99544	.99703	.99677	1.0032	1.0328	1.0378
SDev	.00093	.00526	.00352	.00185	.03612	.04923
%RSD	.09389	.52833	.3541	.1851	3.4976	4.7438

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.0224	1.0044	1.0024	1.008	L.9011	1.0080
SDev	.00993	.00163	.00198	.0028	.0002	.00012
%RSD	.97165	.16314	.19762	.2745	.0208	.01279

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.99238	1.0005	1.0292
SDev	.00696	.00158	.00145
%RSD	.70154	.15854	.14172

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 8

Method: ICAPNC Sample Name: ICB Operator:
Run Time: 10/17/09 10:45 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00039	-.00425	.00151	.00228	.00007	.00009
SDev	.00094	.00473	.0008	.00095	.00002	.00003
%RSD	238.75	111.31	52.95	42.015	32.414	40.886

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00215	.00023	.00016	.00002	-.00071	.00084
SDev	.00208	.00026	.0002	.00063	.00017	.00435
%RSD	96.538	114.29	120.4	3029.8	24.96	516.22

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00378	.00056	.00001	.00045	-.0299	.00023
SDev	.01712	.00269	.00012	.00063	.0371	.00066
%RSD	452.54	474.84	720.55	138.89	124	279.19

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00168	-.00108	-.00101	-.00041	.00277	.00253
SDev	.00322	.00101	.00075	.00092	.0015	.00196
%RSD	191.97	94.331	74.307	223.84	54.231	77.394

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00272	.00000	-.00091	.0003	.0000	.00042
SDev	.00119	.00302	.00162	.0021	0	.0002
%RSD	43.739	70160	176.85	620.6	55.85	47.781

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00147	.00013	-.00002
SDev	.00138	.00035	.00003
%RSD	93.624	268.21	137.53

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 9

Method: ICAPNC Sample Name: CRI Operator:
Run Time: 10/17/09 10:51 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00990	.19505	.00635	.10927	.21703	.00531
SDev	.00038	.00093	.00012	.00069	.0002	.00001
%RSD	3.8961	.48172	1.9189	.63661	.09481	.23043

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.9948	.00409	.05175	.00976	.02497	.09199
SDev	.01445	.00008	.00037	.0003	.00005	.0067
%RSD	.28939	1.9898	.7226	3.0857	.2075	7.2899

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.9762	5.0782	.01597	.01116	4.862	.04088
SDev	.00423	.01059	.00006	.00024	.0896	.00016
%RSD	.08517	.20861	.42335	2.2132	1.843	.40945

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00035	.00213	.00180	.00430	.00744	.00720
SDev	.00109	.00108	.00108	.00182	.00167	.00276
%RSD	306.61	51.029	59.901	42.37	22.575	38.423

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00738	.00361	.00437	.0204	.0182	.02168
SDev	.00059	.00101	.0026	.0018	0	.00027
%RSD	8.1163	28.15	59.71	8.961	.0429	1.2678

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00889	.05094	H.03053
SDev	.00165	.0004	.00014
%RSD	18.553	.79846	.45991

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 10

Method: ICAPNC Sample Name: ICSA Operator:
Run Time: 10/17/09 10:57 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00278	501.44	.00178	-.06143	.00205	-.00010
SDev	.00003	.16814	.00255	.00161	.00001	.00002
%RSD	1.2666	.03353	143.01	2.6367	.89127	25.193

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	513.98	-.00149	-.00126	.00647	-.00562	199.48
SDev	1.8978	.00031	.00014	.00025	.00004	.38359
%RSD	.36923	21.235	11.127	3.9077	.80039	.1923

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.77175	519.01	-.00175	.01579	.0954	-.00036
SDev	.01252	1.2945	.00084	.00043	.0502	.00028
%RSD	1.6227	.24941	48.038	2.7461	52.6	77.953

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.21482	.10155	-.00357	-.00070	.00279	.01568
SDev	.00194	.00065	.00106	.00115	.00206	.00451
%RSD	.90352	.64104	29.847	162.65	73.835	28.809

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02289	-.02004	.00923	-.0062	.0004	.00237
SDev	.00298	.00296	.00185	.0073	0	.0001
%RSD	13.027	14.78	20.049	118.1	4.174	4.4306

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00541	.00000	-.00190
SDev	.00704	.00072	.00005
%RSD	129.95	137620	2.6698

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 11

Method: ICAPNC Sample Name: ICSAB Operator:
Run Time: 10/17/09 11:03 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	1.0780	504.50	.53159	-.06681	.53159	.50947
SDev	.00132	1.0446	.00305	.00199	.00111	.00101
%RSD	.12252	.20706	.57548	2.9921	.21034	.19965

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	520.43	.96647	.49923	.50422	.53025	203.32
SDev	1.3237	.00284	.00143	.00186	.00085	.50052
%RSD	.25434	.2942	.28658	.37021	.1611	.24617

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.82256	524.77	.51275	.53063	.0894	.93080
SDev	.00981	1.1036	.00145	.00546	.025	.00519
%RSD	1.1929	.21031	.28381	1.03	27.99	.55849

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.29249	.59920	.49730	.51661	1.0461	1.0651
SDev	.00308	.00251	.00265	.00329	.03098	.03681
%RSD	1.0537	.41896	.5337	.63768	2.9616	3.4564

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.0081	.50581	.52231	-.0082	.0003	.00226
SDev	.01955	.00783	.00585	.0058	0	.00011
%RSD	1.9399	1.5489	1.1218	70.87	5.046	5.1594

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.47378	.50571	1.0693
SDev	.02678	.0013	.0018
%RSD	5.6527	.25756	.16893

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 11:11 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.24790	39.000	1.9830	1.9756	1.9850	1.9979
SDev	.00032	.10529	.00257	.0049	.00077	.00107
%RSD	.12973	.26998	.12999	.24803	.03908	.05396

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	39.074	1.9614	1.9546	1.9568	1.9521	39.011
SDev	.02335	.0012	.00152	.00074	.00256	.00555
%RSD	.05977	.06154	.07787	.03802	.1314	.01423

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	39.969	39.019	1.9587	1.9775	38.45	1.9628
SDev	.13338	.06051	.00081	.01803	.2523	.00258
%RSD	.33373	.15508	.04186	.91211	.6562	.13152

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9345	1.9710	1.9590	1.9844	1.9894	1.9918
SDev	.00366	.00178	.00239	.00453	.10744	.14395
%RSD	.18969	.09064	.12247	.22839	5.4006	7.2274

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.9842	1.9896	1.9816	1.957	1.828	1.9754
SDev	.03467	.00201	.00779	.006	.0014	.00282
%RSD	1.7476	.10129	.39344	.3049	.0784	.1432

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9589	1.9624	1.9967
SDev	.00196	.00068	.00384
%RSD	.10013	.03484	.19241

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 11:23 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00022	-.00809	.00113	.00181	.00006	.00011
SDev	.00028	.00188	.00122	.00061	.00002	.00003
%RSD	126.97	23.319	107.15	33.635	38.132	35.103

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00324	-.00005	.00011	-.00070	-.00044	.00234
SDev	.00116	.00006	.00034	.00009	.00023	.00342
%RSD	35.833	111.13	300.87	12.843	53.295	146.11

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01044	.00181	-.00006	.00028	-.0419	-.00008
SDev	.00796	.0013	.00002	.00021	.0846	.00065
%RSD	76.24	71.595	33.048	74.836	201.9	735.17

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00051	-.00038	-.00016	-.00085	.00356	.00292
SDev	.00081	.00084	.00044	.00125	.00141	.00143
%RSD	157.73	218.08	267.66	147.5	39.815	49.077

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00431	-.00055	-.00127	.0003	.0000	.00048
SDev	.0025	.00136	.00199	.0004	0	.00017
%RSD	58.064	246.23	155.71	108.7	40.7	36.159

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00138	.00021	.00006
SDev	.0023	.00035	.00007
%RSD	166.14	162.14	109.33

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10461-MB1 Operator:
Run Time: 10/17/09 11:29 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00017	-.00541	.00158	.00158	.00000	.00011
SDev	.00017	.00552	.00054	.00053	.00006	.00003
%RSD	99.849	102.06	34.031	33.681	1084.6	33.065

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00248	.00002	-.00021	-.00075	-.00107	-.00142
SDev	.00045	.00008	.0002	.00026	.00016	.00506
%RSD	18.406	305.65	98.456	35.385	15.347	355.15

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00270	-.00082	.00004	.00016	-.0558	-.00023
SDev	.00699	.00461	.00003	.00047	.0297	.00016
%RSD	258.5	562.08	88.272	289.99	53.26	70.138

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00086	-.00131	-.00032	-.00081	.00184	.00133
SDev	.00093	.00126	.0009	.00029	.0008	.00099
%RSD	108.85	95.816	280.22	36.439	43.585	74.373

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00233	.00029	-.00164	-.0008	.0000	.00025
SDev	.00088	.00296	.00108	.0009	0	.0001
%RSD	37.842	994.31	65.593	125.1	71.09	40.81

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00021	-.00010	.00009
SDev	.001	.0001	.00012
%RSD	463.9	97.804	134.67

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10461-B1 Operator:
Run Time: 10/17/09 11:38 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.39328	51.564	.41148	1.0276	.40798	.42031
SDev	.00067	.18358	.00148	.0034	.00027	.00097
%RSD	.17122	.35603	.35969	.33159	.06728	.23239

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	51.229	.40213	.39932	.39950	.40044	50.615
SDev	.19413	.00061	.00105	.00146	.00059	.12032
%RSD	.37895	.15387	.26476	.36665	.14864	.23772

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	50.497	51.245	.41596	.41459	50.19	.40512
SDev	.15665	.14264	.00118	.00285	.1985	.00078
%RSD	.31023	.27836	.28482	.68926	.3956	.19344

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.36558	.42107	.40279	.41606	.41878	.42400
SDev	.00067	.00188	.00104	.00363	.01228	.01578
%RSD	.1834	.44691	.25893	.87286	2.9324	3.7223

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.40793	.41370	.41706	.4013	.3428	.42642
SDev	.00529	.0037	.0037	.0024	.0002	.00043
%RSD	1.2987	.89624	.88931	.5876	.0713	.102

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.40591	.40572	.42127
SDev	.00327	.00097	.00089
%RSD	.80685	.23917	.21274

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:46:17 AM page 16

Method: ICAPNC Sample Name: T39637-1 Operator:
Run Time: 10/17/09 11:45 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00025	2.7098	.00282	.09751	.08258	.00020
SDev	.0002	.01	.00089	.00054	.00013	.00007
%RSD	80.839	.36924	31.733	.55713	.16077	36.537

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	33.812	.00002	-.00010	.00096	.00371	.16293
SDev	.17664	.00008	.00026	.0005	.00012	.00677
%RSD	.52244	391.83	248.1	51.923	3.4787	4.1573

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	6.3802	2.4492	.03070	.00999	77.61	.00099
SDev	.02617	.0114	.00016	.00065	.187	.00076
%RSD	.41021	.46556	.54275	6.5905	.241	76.814

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00412	.00077	.00215	-.00050	.00698	.00661
SDev	.00141	.00063	.00005	.00009	.00401	.00516
%RSD	34.328	81.495	2.4607	19.089	57.46	78.032

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00720	-.00473	.00133	.0003	.1289	.00522
SDev	.00202	.00045	.00015	.0011	.0001	.0001
%RSD	28.169	9.6261	11.909	338.2	.1069	2.0789

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00261	.00685	.09184
SDev	.00318	.0002	.00028
%RSD	121.47	3.0493	.31543

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Method: ICAPNC Sample Name: MP10461-D1 Operator:
Run Time: 10/17/09 11:51 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00008	2.4362	.00260	.08926	.07432	.00021
SDev	.00021	.00588	.00112	.00041	.00018	.00001
%RSD	244.09	.24142	43.338	.46651	.24696	6.0992

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	30.517	-.00006	-.00019	.00052	.00329	.15425
SDev	.07493	.00007	.00031	.0004	.0001	.0043
%RSD	.24555	105.75	162.3	77.255	3.2454	2.7894

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.6997	2.2110	.02787	.00869	70.18	.00092
SDev	.01202	.00221	.00007	.00033	.3388	.0003
%RSD	.21104	.10029	.26659	3.8533	.4828	32.966

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00266	.00102	.00183	-.00061	.00502	.00534
SDev	.00094	.00077	.00064	.00092	.00192	.00263
%RSD	35.596	75.561	35.232	148.79	38.4	49.335

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00385	-.00547	.00152	-.0008	.1158	.00456
SDev	.00086	.00206	.00238	.0019	.0001	.0001
%RSD	22.544	37.735	156.35	247.4	.1048	2.3019

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00338	.00649	.08372
SDev	.0009	.00005	.00013
%RSD	26.592	.88206	.16513

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Method: ICAPNC Sample Name: MP10461-SD1 Operator:
Run Time: 10/17/09 11:57 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00064	2.8475	.00520	.11197	.08959	.00048
SDev	.0005	.01391	.00317	.0026	.00021	.00018
%RSD	78.206	.48854	60.89	2.3229	.23613	37.355

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	36.062	.00025	-.00018	-.00006	.00070	.17230
SDev	.05892	.00016	.00066	.00278	.00095	.01774
%RSD	.16338	64.885	355.28	4610.7	134.9	10.3

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	6.2557	2.6587	.03386	.01150	82.44	.00219
SDev	.02362	.00814	.00034	.00114	.441	.00183
%RSD	.37764	.30645	1.0321	9.9955	.535	83.552

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00099	-.00345	-.00132	-.00440	.01042	.00822
SDev	.01275	.00442	.0023	.00418	.00664	.01158
%RSD	1280.9	128.13	174.17	94.952	63.706	140.9

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.01221	-.00668	-.00467	-.0054	.1401	.00678
SDev	.00337	.00551	.00871	.0068	.0001	.00049
%RSD	27.638	82.528	186.41	125.4	.0661	7.3047

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00139	.00900	.11835
SDev	.00159	.00103	.00079
%RSD	114.34	11.461	.67211

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Method: ICAPNC Sample Name: MP10461-S1 Operator:
Run Time: 10/17/09 12:04 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.37909	53.516	.40082	1.0894	.49261	.40466
SDev	.00077	.12647	.0027	.00178	.00038	.00135
%RSD	.2033	.23633	.67549	.16348	.07743	.33537

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	89.689	.38538	.38452	.38804	.40118	48.930
SDev	.34829	.00097	.00124	.00106	.00069	.16598
%RSD	.38833	.25423	.32397	.27337	.17275	.33923

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	57.726	51.927	.44023	.41074	140.3	.39133
SDev	.07573	.16645	.00128	.00433	.3734	.00143
%RSD	.13119	.32056	.29097	1.0546	.2662	.36776

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.35703	.40275	.38779	.38475	.40469	.40892
SDev	.00334	.00079	.00068	.00305	.01197	.01501
%RSD	.93575	.19769	.17761	.79458	2.9598	3.6716

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.39579	.37894	.38747	.3893	.4850	.42129
SDev	.0059	.00462	.00269	.0022	.0006	.00199
%RSD	1.491	1.2213	.69454	.5526	.1285	.47365

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.37210	.40182	.51063
SDev	.00702	.00149	.00151
%RSD	1.8876	.3709	.29576

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Method: ICAPNC Sample Name: MP10461-S2 Operator:
Run Time: 10/17/09 12:10 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.37985	53.608	.40022	1.0862	.48781	.40192
SDev	.00066	.0745	.0018	.00314	.00066	.00043
%RSD	.17572	.13898	.45183	.28941	.13575	.10782

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	85.585	.38265	.38238	.38539	.40396	48.580
SDev	.16944	.00059	.00114	.00046	.00054	.02467
%RSD	.19799	.15667	.30014	.12007	.13592	.05079

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	57.806	51.485	.43542	.40920	135.1	.38817
SDev	.14326	.07838	.00073	.00285	.2519	.00052
%RSD	.24783	.15225	.16816	.69821	.1864	.13579

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.35372	.40190	.38610	.38520	.40933	.41400
SDev	.00259	.00198	.00092	.00145	.00683	.0092
%RSD	.73281	.49366	.24048	.37901	1.6701	2.2222

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.39954	.38096	.38713	.3865	.4750	.41978
SDev	.00212	.00154	.00179	.0005	.0007	.00096
%RSD	.53089	.40612	.46426	.1422	.1432	.23034

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.37257	.40002	.50119
SDev	.00488	.00074	.0006
%RSD	1.3108	.1869	.12065

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Method: ICAPNC Sample Name: T39514-3 Operator:
Run Time: 10/17/09 12:16 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00036	.03183	.00186	.01115	.04523	.00014
SDev	.00023	.00379	.00096	.00063	.00011	0
%RSD	65.351	11.915	51.603	5.7058	.25811	4.0029

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	27.814	-.00012	-.00045	.00049	-.00047	.02541
SDev	.15983	.00005	.00045	.00016	.0001	.00129
%RSD	.57466	45.297	101.3	32.952	22.496	5.0941

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	2.0140	5.5699	.09120	.03855	33.69	-.00010
SDev	.01768	.02273	.00049	.00073	.1292	.00022
%RSD	.87812	.40812	.5478	1.9035	.3836	225.68

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00112	.00037	.00089	.00013	.00503	.00574
SDev	.00243	.00099	.00049	.00065	.00144	.00174
%RSD	215.62	266.4	55.422	484.78	28.755	30.44

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00308	-.00490	.00237	.0006	.1883	.00055
SDev	.00187	.00252	.00066	.0012	.0006	.00017
%RSD	60.72	51.441	27.894	193.6	.3201	31.69

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00179	.00398	.00110
SDev	.00245	.00027	.00001
%RSD	136.28	6.8719	1.4192

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Method: ICAPNC Sample Name: T39542-1 Operator:
Run Time: 10/17/09 12:22 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00034	.32607	.01188	.67881	.12361	.00001
SDev	.00015	.00144	.00099	.00101	.00006	.00001
%RSD	45.23	.44348	8.353	.14892	.05306	110.94

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	51.753	.00078	.07221	.02135	.04166	1.0666
SDev	.01038	.00006	.0003	.00024	.00021	.00132
%RSD	.02006	8.5916	.41862	1.1356	.52126	.12434

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	37.536	11.551	.14957	4.2449	61.15	.12147
SDev	.00962	.01448	.00003	.03293	.1961	.00079
%RSD	.02564	.12541	.02138	.77594	.3208	.65255

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.02695	.01812	.02133	.00381	.00067	.01409
SDev	.0007	.00067	.00036	.00177	.00124	.00143
%RSD	2.6295	3.7385	1.7057	46.616	184.34	10.2

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02674	-.00050	.00570	.0080	.2494	.00548
SDev	.00113	.00138	.002	.0012	.0001	.00008
%RSD	4.2477	274.14	35.249	14.41	.0511	1.5064

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00477	-.00380	.08458
SDev	.00067	.00016	.00014
%RSD	14.106	4.417	.16672

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Method: ICAPNC Sample Name: T39628-1 Operator:
Run Time: 10/17/09 12:29 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00014	.99954	.00618	.23606	.02234	.00003
SDev	.00043	.00574	.00112	.00058	.00005	.00006
%RSD	296.53	.57453	18.181	.2464	.24506	152.3

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.9262	-.00004	.00137	.00891	.00708	.41552
SDev	.01757	.0001	.0002	.00024	.00022	.0028
%RSD	.3568	230.3	14.619	2.7277	3.2384	.67621

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H159.99	.55388	.01224	.02551	106.2	.00358
SDev	.47233	.00327	.00008	.00492	.157	.00013
%RSD	.29523	.59175	.70239	19.302	.1478	3.7989

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00437	.00026	.00190	.00102	.00378	.00406
SDev	.00119	.00068	.0005	.00112	.00117	.00161
%RSD	27.304	256.99	26.648	109.45	31.081	39.723

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00268	-.00555	.00403	.0001	.1140	.01400
SDev	.00031	.00029	.00157	.0012	.0002	.00024
%RSD	11.773	5.2381	38.914	871.1	.1416	1.7802

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00420	.01335	.01360
SDev	.00123	.00045	.00009
%RSD	29.375	3.4021	.67549

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 12:37 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25476	40.178	2.0187	2.0454	2.0290	2.0356
SDev	.00059	.14822	.00256	.00156	.0018	.00306
%RSD	.23334	.36892	.1269	.07632	.08895	.15068

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.498	2.0008	1.9918	1.9960	1.9878	40.210
SDev	.08322	.00344	.00088	.00209	.00412	.03974
%RSD	.20551	.17194	.04451	.1052	.20732	.09884

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.076	40.284	1.9959	2.0265	39.85	2.0034
SDev	.13271	.04109	.00227	.01634	.2042	.00303
%RSD	.3231	.102	.11415	.80642	.5124	.15145

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9731	2.0069	1.9958	2.0126	2.0470	2.0514
SDev	.00593	.00341	.00131	.00401	.07529	.09551
%RSD	.30075	.17025	.0657	.19952	3.6784	4.656

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0377	2.0262	2.0056	1.996	1.881	2.0281
SDev	.03517	.00662	.00415	.0009	.0017	.00149
%RSD	1.726	.32712	.20717	.0431	.0897	.07355

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9464	2.0185	2.0359
SDev	.06109	.00161	.00232
%RSD	3.1391	.08	.11416

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 12:48 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00015	-.01034	.00082	.00181	.00003	.00011
SDev	.00008	.00083	.00085	.00076	.00004	.00002
%RSD	56.003	8.0956	103.72	41.982	142.97	19.17

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.01013	-.00004	-.00004	-.00047	-.00112	.00233
SDev	.00879	.00013	.00019	.00014	.00015	.00273
%RSD	86.823	309.6	489.74	31.608	14.07	117.38

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02719	.00118	-.00002	.00133	-.0543	-.00061
SDev	.00298	.00072	.00003	.00033	.0647	.00035
%RSD	10.959	60.598	167.57	24.671	119.3	57.218

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00036	.00030	.00035	.00078	.00396	.00404
SDev	.00153	.00105	.00085	.00094	.0014	.00129
%RSD	417.37	343.28	239.75	120.39	35.357	32.075

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00328	.00091	.00042	-.0020	.0001	.00059
SDev	.00162	.00036	.00134	.002	0	.0001
%RSD	49.58	39.678	318.67	99.53	60.69	16.92

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00006	.00007	.00013
SDev	.00114	.00013	.0002
%RSD	1763	172.95	145.86

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Method: ICAPNC Sample Name: T39628-2 Operator:
Run Time: 10/17/09 12:54 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00023	11.088	.00738	.04019	.18615	.00084
SDev	.00029	.02544	.00082	.00056	.00017	.00002
%RSD	126.9	.22944	11.146	1.4075	.09222	2.3606

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	64.994	.00000	.00440	.01711	.01298	10.657
SDev	.1511	.00015	.00017	.00026	.00011	.02492
%RSD	.23249	18797	4.0173	1.5408	.84777	.23391

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	9.3483	3.4705	.28012	.00521	13.15	.01081
SDev	.01465	.01292	.00034	.00053	.0784	.00035
%RSD	.15681	.37251	.12162	10.268	.596	3.2715

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.01223	.02292	.01959	.00058	.00408	.00464
SDev	.00113	.00155	.00113	.00133	.00006	.00017
%RSD	9.2689	6.7875	5.8119	228.3	1.5784	3.7858

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00246	-.00462	.00292	.0010	.0829	.22414
SDev	.00039	.00053	.00209	.001	0	.00065
%RSD	16.096	11.579	71.623	91.3	.0376	.29246

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00433	.03144	.13654
SDev	.00027	.00047	.00034
%RSD	6.4078	1.5141	.25196

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Method: ICAPNC Sample Name: T39628-3 Operator:
Run Time: 10/17/09 13:00 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00000	13.865	.00666	.02877	.13254	.00102
SDev	.00014	.06315	.00078	.00079	.00014	.00001
%RSD	3299.2	.45549	11.786	2.7708	.10764	1.0529

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	96.934	-.00022	.00389	.01521	.01075	13.226
SDev	.20018	.00005	.00027	.0003	.00021	.03626
%RSD	.20651	23.15	6.9776	2.0213	2.0158	.27424

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.2520	7.1635	.26039	.00326	5.009	.01032
SDev	.01366	.0131	.00033	.0004	.1213	.00026
%RSD	.32144	.18294	.12998	12.331	2.421	2.6077

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00249	.01433	.01065	.00180	.00362	.00533
SDev	.00172	.00095	.00022	.00136	.00124	.00077
%RSD	69.044	6.6703	2.0947	75.237	34.385	14.52

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00030	-.00533	.00514	.0003	.1506	.27551
SDev	.00222	.00137	.00134	.0014	.0001	.00019
%RSD	719.07	25.831	26.135	443.9	.1032	.07171

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00264	.02760	.08141
SDev	.00211	.00033	.00009
%RSD	80.276	1.2201	.11266

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Method: ICAPNC Sample Name: T39636-1 Operator:
Run Time: 10/17/09 13:07 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00027	.49807	.00124	.22162	.08124	.00000
SDev	.00017	.00048	.00075	.0005	.00002	.00001
%RSD	64.594	.09642	61.052	.22866	.03659	293.68

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	69.911	.00045	.00040	.00009	.00596	.06005
SDev	.12312	.00004	.00021	.00032	.00018	.00058
%RSD	.17612	9.3678	54.866	335.44	3.1604	.97092

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	17.243	7.1610	.03023	.00903	128.8	.01362
SDev	.01144	.00702	.00005	.00002	.7212	.00026
%RSD	.06634	.09807	.18281	.23704	.5599	1.9212

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00228	-.00093	.00038	.00066	.00293	.00289
SDev	.00058	.00062	.00032	.00097	.00036	.00062
%RSD	25.439	66.66	83.685	147.3	12.367	21.715

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00247	-.00463	.00304	-.0001	.4162	.00057
SDev	.00062	.00129	.0014	.0004	.0001	.00017
%RSD	25.036	27.996	46.107	470.6	.0208	30.582

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00503	.00102	.01772
SDev	.00105	.00029	.00011
%RSD	21.011	29.288	.63521

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Method: ICAPNC Sample Name: T39662-1 Operator:
Run Time: 10/17/09 13:13 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00067	.08650	.00348	.08530	.02523	-.00009
SDev	.00115	.00338	.00142	.00089	.00005	.00004
%RSD	169.89	3.9165	40.804	1.0546	.2234	50.917

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.582	.00011	.00007	.00104	.00054	.01868
SDev	.33879	.00021	.00017	.00104	.00012	.00655
%RSD	.83484	192.2	241.08	99.942	23.175	35.091

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	11.943	12.956	.00498	.05663	H363.4	.00255
SDev	.08233	.06918	.00016	.00109	.7715	.00108
%RSD	.68945	.53398	3.2574	1.9406	.2123	42.41

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00353	-.00093	.00081	-.00169	.00114	.00043
SDev	.00293	.00322	.00121	.00115	.00151	.00279
%RSD	82.791	344.68	148.64	68.206	132.12	648.35

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00203	-.00616	.00026	.0014	.1888	.00028
SDev	.00115	.00119	.00227	.0031	.0005	0
%RSD	56.821	19.431	851.98	213.9	.2687	3.3261

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00252	.00423	.00622
SDev	.00311	.00025	.00004
%RSD	123.65	6.1129	.79926

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39668-1 Operator:
Run Time: 10/17/09 13:19 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00000	.30760	.00107	.01498	.05592	.00009
SDev	.00032	.00175	.00069	.00038	.00002	.00002
%RSD	3789.2	.57148	64.257	2.5787	.04522	32.101

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	3.8699	.00009	-.00022	.00049	.00906	.22393
SDev	.01615	.00004	.00028	.00008	.00013	.0079
%RSD	.41754	53.871	129.08	17.091	1.4483	3.5312

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	2.0239	.56950	.00644	.00133	3.585	.00063
SDev	.00091	.00256	.00002	.0007	.045	.00058
%RSD	.04544	.44997	.45002	52.545	1.256	91.508

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00470	-.00090	.00122	-.00051	.00168	.00123
SDev	.00231	.00089	.00079	.00082	.00106	.00166
%RSD	49.275	98.809	64.681	160.51	63.315	134.72

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00204	-.00385	.00085	.0005	.0137	.00555
SDev	.00014	.00287	.00022	.0015	0	.00018
%RSD	6.9862	74.731	25.782	278	.1274	3.3715

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00549	.00170	.05954
SDev	.00118	.00011	.00014
%RSD	21.585	7.0122	.24575

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39668-2 Operator:
Run Time: 10/17/09 13:25 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00011	.36066	.00204	.01408	.07727	.00013
SDev	.00014	.00066	.00069	.00091	.00013	.00001
%RSD	130.31	.18413	33.916	6.5019	.17107	10.607

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.3624	.00003	.00014	.00140	.00301	.25080
SDev	.01498	.00007	.00038	.00006	.00035	.00593
%RSD	.34361	218.38	265.09	4.546	11.842	2.3649

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	1.8614	1.3456	.00726	.00091	3.782	-.00015
SDev	.00437	.00078	.00003	.00028	.0341	.00017
%RSD	.23525	.0585	.51185	30.799	.9008	115.17

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00963	.00486	.00671	-.00091	.00061	.00007
SDev	.00124	.00152	.00061	.00047	.00162	.00172
%RSD	12.967	31.307	9.0823	52.171	263.54	2241.3

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00116	-.00567	.00117	.0002	.0215	.00480
SDev	.00159	.00098	.00093	.0006	0	.00008
%RSD	137.16	17.359	78.963	255.6	.1944	1.8528

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00415	.00211	.18795
SDev	.0007	.00048	.00055
%RSD	17.039	22.833	.29758

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39668-3 Operator:
Run Time: 10/17/09 13:32 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00018	.32769	.00132	.01569	.06490	.00009
SDev	.00072	.00079	.00047	.0006	.0001	.00001
%RSD	397.9	.2432	35.922	3.8357	.15905	16.763

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	5.3261	.00006	.00000	.00117	.00174	.16761
SDev	.02179	.00007	.00005	.00041	.00011	.00273
%RSD	.40918	110.84	730.1	35.532	6.5237	1.6316

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	1.3371	1.8462	.00625	.00092	7.781	-.00023
SDev	.00629	.00743	.00004	.00015	.0676	.00086
%RSD	.47088	.4027	.74112	17.14	.8692	368.94

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00685	.00321	.00469	.00148	.00043	-.00043
SDev	.00306	.00083	.00118	.00046	.00153	.00199
%RSD	44.793	26.022	25.286	31.353	353.87	462.79

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00163	-.00246	.00317	.0001	.0264	.00296
SDev	.0006	.00205	.00141	.0012	0	0
%RSD	36.909	83.311	44.671	1443	.0964	.16398

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00159	.00164	.24222
SDev	.00027	.00011	.0005
%RSD	17.064	6.8598	.20667

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Method: ICAPNC Sample Name: T39668-4 Operator:
Run Time: 10/17/09 13:38 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00015	.54537	.00280	.01812	.11437	.00013
SDev	.00025	.00164	.00113	.00087	.00034	.00001
%RSD	170.68	.30109	40.596	4.8288	.30031	9.5853

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	6.6594	.00000	.00083	.00073	.00513	.34161
SDev	.01191	.00017	.00015	.00026	.00036	.00219
%RSD	.17887	19548	18.994	35.516	7.0596	.64365

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.2949	2.7537	.01388	.00143	4.780	.00049
SDev	.01596	.00448	.00004	.00026	.0277	.00038
%RSD	.37169	.16282	.30168	18.543	.5795	78.37

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00438	.00243	.00335	-.00050	.00161	.00148
SDev	.00152	.00144	.00051	.00052	.00108	.00167
%RSD	34.745	59.211	15.365	104.75	67.59	112.92

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00132	-.00410	.00100	.0002	.0295	.00466
SDev	.00016	.00164	.00124	.0007	.0001	.0001
%RSD	12.557	40.133	123.11	325.7	.2042	2.1566

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00460	.00227	.25427
SDev	.00033	.00042	.00053
%RSD	7.1694	18.463	.21191

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39766-1 Operator:
Run Time: 10/17/09 13:44 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00017	.36893	.00137	.18354	.06650	.00000
SDev	.00021	.00211	.00143	.00016	.00014	.00002
%RSD	122.15	.57426	104.19	.08981	.2118	342.28

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	62.756	.00076	.00043	.00031	.00551	.04635
SDev	.06901	.00006	.00033	.00016	.00008	.00245
%RSD	.10997	8.4756	77.184	52.835	1.4857	5.2954

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	13.865	6.4257	.02791	.00785	108.6	.01170
SDev	.00975	.00827	.00008	.00003	.1869	.00008
%RSD	.07039	.12881	.31143	.46651	.172	.6856

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00291	.00022	.00139	-.00029	.00077	.00068
SDev	.00063	.00051	.00043	.00022	.00097	.00131
%RSD	21.736	224.27	30.891	76.294	126.98	192.7

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00041	-.00551	.00206	.0003	.3585	.00050
SDev	.00032	.00106	.00055	.0013	.0004	0
%RSD	78.393	19.337	27.118	493.2	.1022	.55842

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00444	.00097	.02032
SDev	.00174	.00024	.00013
%RSD	39.173	25.577	.6814

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 13:52 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25440	39.964	2.0348	2.0383	2.0260	2.0721
SDev	.00044	.11178	.00309	.00287	.00259	.00483
%RSD	.17441	.27971	.15186	.14081	.12784	.23336

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.039	2.0357	2.0197	2.0284	1.9843	40.559
SDev	.14676	.00607	.00486	.00722	.00159	.11746
%RSD	.35762	.2986	.24078	.35605	.08049	.28962

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	40.612	40.652	2.0231	2.0257	39.54	2.0350
SDev	.07132	.10867	.0055	.01726	.2662	.0055
%RSD	.17561	.26733	.2723	.85212	.6732	.27065

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0065	2.0402	2.0292	2.0272	2.0255	2.0213
SDev	.00658	.00252	.00368	.00448	.10484	.13573
%RSD	.32806	.12369	.18139	.22116	5.1763	6.7149

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0333	2.0403	2.0204	2.009	1.867	2.0279
SDev	.04322	.00479	.00517	.0053	.0035	.00406
%RSD	2.1258	.23513	.2561	.2653	.1876	.20033

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9956	2.0232	2.0613
SDev	.02239	.00583	.00556
%RSD	1.1222	.28827	.2701

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 14:02 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00067	-.01050	.00256	.00259	.00002	.00011
SDev	.00067	.00293	.00012	.00041	.00002	.00001
%RSD	99.711	27.887	5.0317	15.853	86.058	15.917

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00781	.00015	-.00006	.00035	-.00087	.00680
SDev	.00067	.00025	.00022	.0007	.00007	.00182
%RSD	8.5982	161.71	319.42	197.79	8.9312	26.77

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.03430	.00188	.00002	.00161	.0574	.00015
SDev	.00967	.00136	.00007	.00067	.0552	.00077
%RSD	28.213	72.678	262.88	41.686	96.11	507.67

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00202	-.00075	.00040	.00015	.00335	.00245
SDev	.00263	.0016	.00032	.00007	.00054	.00124
%RSD	130.16	212.17	78.801	49.714	16.168	50.608

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00461	.00165	-.00089	.0009	.0001	.00041
SDev	.00091	.0008	.00027	.0033	0	.0001
%RSD	19.704	48.848	31.171	379.6	15.35	24.671

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00243	.00020	-.00007
SDev	.00177	.00024	.0001
%RSD	72.847	118.03	140.24

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CRI Operator:
Run Time: 10/17/09 14:08 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01005	.20204	.00687	.11217	.21691	.00540
SDev	.00065	.00321	.00148	.0012	.00015	.00002
%RSD	6.5411	1.5904	21.552	1.0763	.07004	.53312

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	5.1139	.00420	.05276	.00967	.02532	.09428
SDev	.00941	.00014	.00026	.00069	.00007	.00143
%RSD	.1841	3.3963	.49937	7.1599	.31583	1.5203

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.0624	5.1883	.01616	.01147	5.039	.04216
SDev	.00842	.00681	.00007	.00032	.021	.00037
%RSD	.16651	.13127	.47563	2.8608	.4167	.87772

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00277	.00247	.00284	.00543	.00709	.00642
SDev	.00108	.00024	.00021	.00073	.00119	.00192
%RSD	38.922	9.9982	7.5382	13.492	16.828	29.935

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00791	.00689	.00441	.0192	.0185	.02191
SDev	.00028	.00204	.00094	.0025	0	.00011
%RSD	3.5571	29.695	21.499	13.08	.113	.5115

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01069	.05170	.02625
SDev	.00201	.00011	.00014
%RSD	18.881	.21293	.53497

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Method: ICAPNC Sample Name: ICSA Operator:
Run Time: 10/17/09 14:14 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00290	515.51	.00174	-.06164	.00220	-.00009
SDev	.00033	2.0871	.00104	.00079	.00002	.00003
%RSD	11.429	.40486	59.677	1.2886	1.1186	40.296

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	532.32	-.00119	-.00125	.00633	-.00568	205.42
SDev	.08558	.00039	.00008	.00047	.0001	.32058
%RSD	.01607	32.711	6.7592	7.5082	1.8762	.15606

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.85021	537.05	-.00158	.01791	.0992	.00031
SDev	.01643	1.7809	.00107	.00013	.0844	.00067
%RSD	1.933	.3316	67.986	.74965	85.09	210.29

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.21796	.10258	-.00390	-.00273	.00381	.01817
SDev	.00207	.0036	.00196	.00177	.00225	.00389
%RSD	.95137	3.5184	50.276	64.985	59.266	21.447

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02480	-.02147	.00690	-.0075	.0004	.00227
SDev	.00127	.00267	.00159	.0061	0	.00021
%RSD	5.1442	12.455	23.087	80.38	4.263	9.4162

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00577	-.00031	-.00111
SDev	.00732	.00008	.00027
%RSD	126.73	27.367	25.006

Zoom In Zoom Out

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Method: ICAPNC Sample Name: ICSAB Operator:
Run Time: 10/17/09 14:20 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	1.0934	511.28	.53957	-.06499	.54268	.51408
SDev	.00124	.28973	.00101	.00078	.00019	.00095
%RSD	.11425	.05666	.18881	1.2017	.03561	.18607

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	522.73	.97313	.50234	.50780	.54008	204.45
SDev	1.3702	.00197	.00106	.001	.00033	.29465
%RSD	.26213	.20251	.21162	.19865	.06146	.14411

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.80902	530.54	.51565	.53622	.1428	.93806
SDev	.01102	1.1571	.00174	.00524	.0601	.00226
%RSD	1.3631	.2181	.33854	.97838	42.08	.24175

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.29256	.60380	.50037	.52104	1.0535	1.0702
SDev	.00214	.00438	.00269	.00118	.03817	.04883
%RSD	.73221	.72643	.53863	.2265	3.6238	4.5634

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.0203	.51004	.52684	-.0070	.0004	.00233
SDev	.01685	.00304	.00131	.0083	0	0
%RSD	1.6521	.59777	.25049	119.2	1.532	.13584

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.47805	.51119	1.0770
SDev	.03145	.00062	.00301
%RSD	6.5806	.12268	.27962

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 14:28 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25516	40.430	2.0478	2.0535	2.0504	2.0730
SDev	.00006	.08227	.00629	.00337	.00266	.00398
%RSD	.02608	.2035	.30731	.16456	.12987	.19217

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.870	2.0389	2.0264	2.0303	2.0051	40.633
SDev	.10113	.00259	.00434	.00377	.00381	.08481
%RSD	.24746	.12727	.21455	.18589	.19032	.20874

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.093	40.783	2.0293	2.0332	40.01	2.0411
SDev	.07753	.0824	.00357	.02174	.0391	.00268
%RSD	.18869	.20206	.176	1.0693	.0978	.13171

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0116	2.0399	2.0307	2.0486	2.0478	2.0447
SDev	.00416	.00808	.00431	.00266	.10049	.13416
%RSD	.2071	.39646	.2123	.13022	4.9077	6.5618

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0534	2.0639	2.0407	2.006	1.887	2.0411
SDev	.03306	.0083	.00273	.0101	.0017	.00576
%RSD	1.6101	.40234	.13381	.5019	.0903	.28255

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0023	2.0315	2.0618
SDev	.0262	.00417	.00401
%RSD	1.3087	.20564	.1949

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 14:42 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00014	-.00423	.00007	.00204	.00001	.00002
SDev	.00029	.003	.00154	.00051	.00002	.00001
%RSD	199.17	71.101	2172.4	25.224	170.63	54.78

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00428	.00000	-.00012	-.00046	-.00107	-.00033
SDev	.00161	.00007	.00025	.00009	.00013	.00137
%RSD	37.772	8376	208.78	19.473	12.562	404.83

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00923	.00006	-.00005	.00069	-.0689	.00010
SDev	.00534	.00092	.00003	.00047	.0307	.00023
%RSD	57.9	1520.9	67.731	67.387	44.58	225.86

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00135	-.00008	-.00024	.00002	.00364	.00364
SDev	.00164	.00151	.00054	.00145	.00023	.00094
%RSD	121.08	1734.2	225.26	6950.1	6.3391	26.048

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00309	.00005	-.00028	-.0007	.0000	.00018
SDev	.00145	.00248	.00211	.0014	0	.0001
%RSD	46.89	4191.3	734.75	192.9	46.3	54.755

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00031	-.00005	-.00003
SDev	.00121	.0001	.00008
%RSD	384.53	176.06	230.41

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Method: ICAPNC Sample Name: MP10480-MB1 Operator:
Run Time: 10/17/09 15:14 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00012	.02099	.00848	.09238	.08716	.00001
SDev	.00013	.00581	.00029	.00077	.00001	.00002
%RSD	113.22	27.684	3.5041	.84029	.02104	117.28

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.74947	-.00004	.00016	-.00003	.00200	.00819
SDev	.00623	.00003	.00035	.00003	.00011	.00283
%RSD	.83169	82.36	210.76	84.909	5.5128	34.586

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.06593	.11394	.00101	.00012	4.118	-.00060
SDev	.00736	.00024	.00003	.00013	.0204	.0004
%RSD	11.164	.21267	3.2801	110.84	.4944	67.188

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00426	-.00059	.00125	.00901	.00157	.00196
SDev	.00243	.0024	.00129	.00017	.00153	.00253
%RSD	57.24	405.62	102.89	1.9779	97.642	128.9

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00024	.00264	.01190	.0129	.0017	.00018
SDev	.00058	.00259	.00146	.0014	0	.0001
%RSD	233.67	98.177	12.266	10.53	.8145	55.505

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.02187	.00013	.02400
SDev	.00238	.00016	.00007
%RSD	10.908	124.66	.33158

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10480-B1 Operator:
Run Time: 10/17/09 15:21 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.02151	51.853	2.0008	.00162	5.1482	.05201
SDev	.00037	.22019	.00147	.00056	.0073	.00011
%RSD	1.7236	.42464	.07373	34.887	.14188	.21553

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.04014	.05139	.52488	.20623	.26013	.00296
SDev	.00079	.00017	.00143	.00021	.00078	.00146
%RSD	1.968	.33422	.27297	.10641	.3011	49.257

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.04453	.00224	.52768	.41284	.0290	.50199
SDev	.00495	.00207	.00107	.00423	.056	.00216
%RSD	11.137	92.688	.20459	1.0253	193.3	.43099

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9802	1.9810	1.9810	1.8905	.50364	.50540
SDev	.0034	.01318	.00894	.00281	.01451	.01823
%RSD	.17195	.66555	.45178	.14884	2.8811	3.6071

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.49957	1.9016	1.8847	-.0027	.0002	.00005
SDev	.00706	.00462	.00407	.0014	0	0
%RSD	1.4137	.24337	.21621	52.18	5.966	3.9845

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9085	.51652	.54198
SDev	.07535	.00085	.00128
%RSD	3.9485	.16609	.23684

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Method: ICAPNC Sample Name: T39408-1 Operator:
Run Time: 10/17/09 15:27 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00450	2.9085	.02354	.56198	.64290	.00034
SDev	.00046	.02679	.00257	.00279	.00059	.00001
%RSD	10.242	.92139	10.952	.49823	.092	5.066

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1226.8	-.00052	.23742	.06625	-.00878	291.35
SDev	2.0097	.00031	.00065	.00044	.00011	.72236
%RSD	.16381	60.184	.27679	.66667	1.331	.24793

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	8.3085	12.684	4.1886	.04901	24.02	1.2503
SDev	.03351	.0121	.00893	.00028	.1822	.002
%RSD	.4034	.09539	.2132	.57775	.7585	.16043

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.13483	.09788	.02063	.00825	.02076	.04592
SDev	.0027	.00181	.00032	.00083	.00124	.00154
%RSD	2.0089	1.8545	1.5624	10.092	5.9779	3.3585

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02967	-.01585	.02076	.0108	2.001	.00363
SDev	.00307	.0025	.0023	.0021	.0002	.0002
%RSD	10.36	15.83	11.089	19.68	.011	5.6908

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00474	.01102	H21.383
SDev	.01503	.00033	.03576
%RSD	316.88	3.0301	.16725

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Method: ICAPNC Sample Name: MP10480-D1 Operator:
Run Time: 10/17/09 15:34 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00426	2.9318	.02330	.55045	.63192	.00041
SDev	.00055	.00506	.00096	.00288	.00026	.00002
%RSD	13.043	.17276	4.1419	.52345	.04161	5.7027

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1213.9	-.00050	.23403	.06505	-.00866	286.93
SDev	1.6426	.00016	.00031	.00077	.00012	.27304
%RSD	.13531	31.748	.13465	1.1922	1.4306	.09516

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	8.1396	12.505	4.1407	.04780	23.39	1.2290
SDev	.01569	.01671	.00485	.00055	.1555	.00227
%RSD	.19285	.13369	.11712	1.1656	.6647	.18518

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.13535	.09878	.02105	.00682	.01735	.04241
SDev	.00354	.00258	.00141	.0024	.00053	.0002
%RSD	2.6169	2.6161	6.7313	35.325	3.0976	.47415

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03288	-.01731	.01932	.0090	1.956	.00422
SDev	.00137	.00301	.0022	.002	.0004	.00002
%RSD	4.1935	17.419	11.397	22.6	.0208	.58545

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.01278	.01093	H21.300
SDev	.00563	.00032	.05177
%RSD	44.036	2.9595	.24307

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Method: ICAPNC Sample Name: MP10480-SD1 Operator:
Run Time: 10/17/09 15:40 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00113	2.9114	.02737	.58083	.67806	.00041
SDev	.00267	.01956	.00697	.00147	.00066	.00008
%RSD	234.61	.67185	25.458	.25409	.0983	20.203

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1273.4	-.00223	.25008	.06535	-.01397	298.22
SDev	1.0761	.00087	.00149	.0025	.00106	.17396
%RSD	.08451	39.118	.59758	3.8277	7.6206	.05833

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	7.1771	13.399	4.3959	.04722	23.28	1.3298
SDev	.02679	.01158	.00353	.00121	.2301	.00131
%RSD	.37335	.08649	.08042	2.579	.9884	.0989

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.14330	.09851	.01905	.00825	.02175	.05006
SDev	.00173	.0044	.00346	.00902	.00815	.00984
%RSD	1.2123	4.4752	18.177	109.43	37.47	19.668

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03716	-.01512	.01928	.0072	1.946	.00474
SDev	.00496	.00936	.00918	.0036	.0017	.00138
%RSD	13.362	61.919	47.654	49.47	.0851	29.108

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00843	.01155	H33.760
SDev	.00442	.0008	.02776
%RSD	52.492	7.0063	.08224

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Method: ICAPNC Sample Name: MP10480-S1 Operator:
Run Time: 10/17/09 15:47 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.05084	54.727	2.0557	.57584	5.8044	.05086
SDev	.00005	.11829	.00606	.00117	.00259	.00017
%RSD	.10291	.21615	.29498	.20469	.04463	.35208

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1233.5	.04723	.73607	.26491	.26178	293.65
SDev	3.3877	.00013	.00278	.0001	.00069	.97115
%RSD	.27464	.29143	.37891	.04082	.2641	.33071

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	8.4755	12.745	4.7240	.45266	22.59	1.7280
SDev	.01176	.03387	.01365	.00341	.0706	.00314
%RSD	.13884	.2658	.28906	.75495	.3127	.18205

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.7877	2.0119	1.9375	1.9975	.53307	.55876
SDev	.00394	.01347	.01016	.01245	.01323	.01637
%RSD	.2204	.66966	.52471	.62361	2.4826	2.9305

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.48157	1.9942	1.9997	.0115	2.008	.00368
SDev	.00694	.00855	.0157	.0027	.0014	.00015
%RSD	1.4431	.42879	.78525	23.02	.0684	4.1494

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.8448	.51756	H21.697
SDev	.07166	.00178	.05929
%RSD	3.8848	.34435	.27327

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Method: ICAPNC Sample Name: MP10480-S2 Operator:
Run Time: 10/17/09 15:53 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.05314	55.898	2.1010	.58741	5.7781	.05187
SDev	.00062	.12594	.00572	.00551	.01804	.00014
%RSD	1.1825	.22532	.27265	.93828	.31221	.28842

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1240.2	.04831	.74864	.26925	.26705	296.60
SDev	5.5198	.00028	.00216	.0017	.00025	1.0077
%RSD	.44507	.5858	.28854	.63376	.0944	.33974

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	8.6506	12.917	4.7656	.46252	21.62	1.7496
SDev	.02643	.05974	.01661	.00212	.0827	.00757
%RSD	.3056	.46257	.34859	.46037	.3826	.43299

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.8213	2.0464	1.9718	2.0434	.54934	.57632
SDev	.00647	.00672	.00468	.00963	.01171	.01609
%RSD	.35554	.32885	.23767	.4713	2.132	2.7931

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.49526	2.0457	2.0427	.0112	2.038	.00358
SDev	.00349	.00405	.01288	.0046	.0064	.00016
%RSD	.70646	.19835	.63094	40.7	.3125	4.7073

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.8919	.52925	H21.711
SDev	.06231	.00152	.14857
%RSD	3.2936	.28859	.68431

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 16:01 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25615	40.393	2.0468	2.0664	2.0507	2.0783
SDev	.00063	.11706	.01018	.00691	.0036	.01415
%RSD	.24754	.2898	.49785	.33468	.17595	.68103

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.979	2.0445	2.0319	2.0362	2.0057	40.700
SDev	.39571	.01425	.01355	.01227	.00229	.28453
%RSD	.96565	.69725	.66689	.60305	.11459	.69909

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.142	40.924	2.0364	2.0343	40.07	2.0483
SDev	.15712	.26671	.0104	.0318	.1865	.01229
%RSD	.38189	.65173	.5109	1.5635	.4655	.60026

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0199	2.0399	2.0335	2.0416	2.0373	2.0305
SDev	.01115	.01979	.01694	.01229	.11079	.14157
%RSD	.55227	.97027	.83349	.6021	5.4382	6.9724

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0504	2.0658	2.0292	2.007	1.885	2.0419
SDev	.04919	.00387	.01697	.0167	.0018	.00751
%RSD	2.3991	.18774	.83671	.8309	.0955	.36808

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0014	2.0363	2.0553
SDev	.02767	.00943	.01278
%RSD	1.3826	.46317	.62219

Zoom In
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Analysis Report Averages 10/26/09 08:46:17 AM page 50

Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 16:11 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00025	-.01386	.00152	.00253	.00004	.00012
SDev	.00011	.00133	.00083	.00012	.00003	0
%RSD	44.013	9.5953	54.662	4.8433	76.21	5.5337

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00793	-.00004	-.00005	-.00068	-.00088	.00530
SDev	.00104	.00013	.00018	.00031	.00009	.0031
%RSD	13.178	331.53	343.94	45.713	10.454	58.58

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.03573	.00058	-.00007	.00142	-.0472	-.00046
SDev	.01234	.00122	.00001	.00066	.0618	.00035
%RSD	34.558	210.16	24.115	46.756	130.9	76.248

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00077	-.00141	-.00093	.00054	.00385	.00302
SDev	.00118	.00084	.0008	.00121	.00108	.00146
%RSD	153.34	59.855	86.208	222.57	28.099	48.485

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00497	.00132	-.00012	-.0005	.0000	.00053
SDev	.00053	.00098	.00191	.001	0	.0001
%RSD	10.665	74.54	1529.4	208.5	14.1	19.509

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00043	.00025	.00040
SDev	.00073	.00017	.00012
%RSD	168.33	69.572	30.698

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Method: ICAPNC Sample Name: T39317-4 Operator:
Run Time: 10/17/09 16:18 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00000	.01052	.00161	.11073	.03155	-.00003
SDev	.00021	.00151	.00092	.00028	.00007	0
%RSD	2217.5	14.437	57.251	.25359	.23225	10.524

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	68.747	-.00003	.00000	.00131	.00034	.00986
SDev	.20341	.00005	.00025	.00018	.00009	.00629
%RSD	.29589	159.5	2993.1	14.017	27.086	63.876

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.90651	36.033	.00532	.00193	H228.8	.00032
SDev	.00388	.0513	.00004	.00023	.4807	.0006
%RSD	.42857	.14239	.77437	12.256	.2101	185.22

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00209	-.00065	.00052	.00278	.00361	.00352
SDev	.00105	.00021	.00028	.00028	.00062	.00097
%RSD	50.372	33.127	55.009	10.29	17.371	27.571

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00325	-.00023	.00401	.0012	.5299	.00078
SDev	.00048	.00288	.00121	.0011	.0003	.00027
%RSD	14.976	1247	30.2	91.19	.0507	35.725

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00102	.00369	.00279
SDev	.00042	.00032	.00003
%RSD	41.442	8.8619	1.4034

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Method: ICAPNC Sample Name: T39317-5 Operator:
Run Time: 10/17/09 16:24 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00053	-.03227	L-.35818	.04400	.02938	-.00121
SDev	.00201	.01395	.03617	.0083	.00045	.00015
%RSD	375.79	43.25	10.099	18.882	1.5443	12.382

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	208.27	.00031	.00413	H408.80	-.00448	.47897
SDev	1.5066	.00038	.00425	8.8808	.00232	.07708
%RSD	.7234	120.01	102.77	2.1724	51.795	16.094

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.87052	101.50	L-.04468	L-.03191	H431.1	.00889
SDev	.06368	.58995	.00744	.00369	3.249	.00156
%RSD	7.3162	.5812	16.662	11.582	.7538	17.646

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.02078	-.02129	L-.00614	-.00427	.01755	-.07053
SDev	.01931	.01023	.00106	.00499	.08652	.14482
%RSD	92.937	48.074	17.328	116.85	492.81	205.31

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.19133	.06772	-.04147	L-.0263	1.417	L-.01006
SDev	.03058	.02349	.01174	.0061	.0029	.00083
%RSD	15.986	34.697	28.319	23.14	.2068	8.3272

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01675	.02264	L-.24789
SDev	.00377	.00373	.00519
%RSD	22.511	16.485	2.0946

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Method: ICAPNC Sample Name: T39317-6 Operator:
Run Time: 10/17/09 16:31 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00095	-.02218	L-.37715	.04365	.03099	-.00129
SDev	.00131	.00756	.0324	.01333	.00004	.00014
%RSD	137.41	34.122	8.591	30.551	.13749	10.974

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	219.32	-.00002	.00615	H428.65	-.00273	.55158
SDev	.37648	.00021	.00038	5.7537	.00098	.02508
%RSD	.17166	939.28	6.3211	1.3423	36.064	4.5471

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.80646	107.07	L-.04730	L-.03351	H455.4	.01110
SDev	.03605	.15112	.00764	.00198	1.962	.00021
%RSD	4.4712	.14113	16.156	5.9102	.4309	1.8964

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00143	-.01270	L-.00800	.00108	.03932	-.02547
SDev	.01439	.00313	.00613	.00323	.07534	.12913
%RSD	1005.5	24.707	76.594	298.57	191.6	506.94

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.16647	.05624	-.02768	L-.0275	1.495	-.00980
SDev	.03478	.00579	.0059	.0112	.0014	.00187
%RSD	20.898	10.303	21.319	40.59	.092	19.086

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01652	.02544	L-.25907
SDev	.00483	.00099	.00384
%RSD	29.23	3.9139	1.483

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Method: ICAPNC Sample Name: T39317-7 Operator:
Run Time: 10/17/09 16:37 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00007	.03739	.00186	.15640	.04155	-.00003
SDev	.00017	.00268	.00019	.00161	.00004	.00002
%RSD	223.35	7.1678	10.631	1.0301	.10932	77.469

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.337	-.00007	.00035	.11281	.00016	.09370
SDev	.17927	.00007	.00007	.09657	.00013	.00638
%RSD	.44445	93.969	20.055	85.601	83.696	6.819

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.28706	28.840	.04523	.00235	H319.7	.00701
SDev	.00696	.08836	.00017	.00046	.3917	.00066
%RSD	2.4271	.30638	.3841	19.781	.1225	9.4493

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00223	.00028	.00120	-.00054	.00279	.00329
SDev	.00011	.00068	.00049	.00119	.00037	.00104
%RSD	5.0014	236.99	41.358	218.78	13.319	31.749

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00126	-.00465	.00123	-.0005	.3649	.00073
SDev	.00199	.00098	.00144	.0007	.0004	.00009
%RSD	157.89	21.089	117.02	141.5	.1227	13.488

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00381	.00215	.01350
SDev	.00064	.0003	.00025
%RSD	16.997	14.173	1.8677

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Method: ICAPNC Sample Name: T39317-8 Operator:
Run Time: 10/17/09 16:44 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00055	.01158	.00142	.01118	.11121	.00005
SDev	.00017	.00343	.0023	.00049	.00005	.00001
%RSD	32.318	29.63	162.33	4.4	.05247	32.169

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	3.6463	-.00015	-.00001	.01314	.00014	.00859
SDev	.00758	.00011	.00005	.00319	.00019	.00003
%RSD	.20811	70.842	325.11	24.333	130.34	.38107

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	1.9162	1.7555	.00598	.00010	2.813	-.00049
SDev	.00106	.00571	.00001	.0005	.0567	.00008
%RSD	.05579	.32539	.17923	476.45	2.016	17.23

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00255	-.00128	.00025	-.00087	-.00020	-.00058
SDev	.00253	.00068	.001	.00095	.00109	.00167
%RSD	99.343	53.235	387.95	109.17	538.02	285.49

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00003	-.00389	.00033	-.0004	.0366	.00032
SDev	.00077	.00241	.0007	.0009	0	0
%RSD	2559.3	62.164	213.51	230.6	.1341	.82051

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00569	.00024	.00770
SDev	.00109	.00023	.00004
%RSD	19.224	98.262	.53278

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Method: ICAPNC Sample Name: T39317-9 Operator:
Run Time: 10/17/09 16:50 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00135	.00938	L-.05140	.05404	.02019	-.00036
SDev	.00238	.00988	.00057	.00207	.00008	.00013
%RSD	175.61	105.28	1.1204	3.8421	.4281	35.372

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	74.559	-.00048	.00115	H85.857	-.00166	.08974
SDev	.19479	.00114	.00098	1.2036	.00058	.03007
%RSD	.26125	238.02	85.424	1.4019	35.008	33.511

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.38465	47.804	-.00532	-.00562	H497.5	.00116
SDev	.03795	.11535	.00111	.00077	1.756	.00114
%RSD	9.8667	.2413	20.973	13.852	.353	98.877

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00430	-.00577	-.00107	-.00240	L-.01694	-.02816
SDev	.01565	.00616	.00419	.0116	.00616	.01236
%RSD	363.32	106.72	392.09	482.74	36.401	43.899

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00284	.00489	-.00751	-.0102	.6599	-.00094
SDev	.00917	.01428	.01129	.002	.0012	.00015
%RSD	321.98	291.69	150.28	19.26	.1796	16.316

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00094	.00867	L-.04183
SDev	.00359	.00085	.00038
%RSD	380.71	9.8121	.91944

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Method: ICAPNC Sample Name: T39317-10 Operator:
Run Time: 10/17/09 16:57 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00018	.03520	.00109	.13461	.01900	.00000
SDev	.00029	.00385	.00053	.00038	.00004	.00003
%RSD	163.4	10.955	49.189	.28871	.21789	3682

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	71.863	-.00006	.00013	.01989	.00038	.01910
SDev	.12259	.00009	.00006	.01455	.00013	.00105
%RSD	.17059	149.79	48.572	73.135	35.465	5.5395

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.41743	51.038	.00746	.00088	H382.1	.00480
SDev	.01097	.06656	.00002	.00064	1.157	.00022
%RSD	2.6291	.13042	.37896	72.313	.3027	4.7209

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00237	.00035	.00130	.00057	.00200	.00277
SDev	.00182	.00139	.00034	.00145	.00022	.00014
%RSD	76.769	397.28	26.268	254.72	11.098	5.2624

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00004	-.00254	.00188	-.0011	.6347	.00073
SDev	.00063	.00229	.0032	.0002	.0006	.00018
%RSD	1300.4	90.326	170.24	19.34	.0949	25.66

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00448	.00394	.00266
SDev	.00123	.0002	.00009
%RSD	27.584	5.1908	3.5307

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39596-1 Operator:
Run Time: 10/17/09 17:03 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00020	4.1751	.00217	.03225	.14371	.00020
SDev	.00019	.01834	.00143	.00068	.00021	0
%RSD	94.868	.43933	65.894	2.1324	.14932	2.903

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	24.811	-.00001	.00034	.01427	.02325	3.2191
SDev	.05444	.00016	.00085	.00078	.00033	.0111
%RSD	.21942	1443	244	5.4976	1.4339	.34504

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	3.6618	1.9450	.05893	.00544	5.841	.00514
SDev	.01491	.00505	.00001	.00028	.076	.00054
%RSD	.40741	.25984	.02644	5.2428	1.301	10.527

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.01173	.00950	.01051	.00057	.00328	.00291
SDev	.00247	.00199	.00117	.00064	.00037	.00125
%RSD	21.122	20.965	11.198	112.93	11.457	42.919

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00350	-.00226	.00172	.0016	.1701	.04049
SDev	.00154	.0039	.00098	.0017	.0003	.00018
%RSD	43.989	171.97	57.159	111	.1481	.4596

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00512	.00961	.15518
SDev	.00003	.00052	.0004
%RSD	.65969	5.4818	.25875

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39596-2 Operator:
Run Time: 10/17/09 17:10 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00006	4.0488	.00263	.03176	.14183	.00021
SDev	.0001	.00315	.00069	.00067	.00029	.00001
%RSD	169.6	.07789	26.292	2.132	.20554	7.9742

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	24.608	.00014	.00078	.01247	.02249	3.1648
SDev	.10537	.00004	.00007	.00035	.00023	.00846
%RSD	.42821	29.504	9.037	2.8319	1.0576	.26754

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	3.6310	1.9175	.05498	.00581	5.854	.00604
SDev	.00569	.00966	.0002	.00022	.0298	.00057
%RSD	.15693	.50403	.36761	3.8434	.5089	9.546

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.01029	.00982	.01021	-.00023	.00357	.00414
SDev	.00131	.00062	.00012	.00209	.0012	.00182
%RSD	12.811	6.3813	1.245	907.4	33.677	44.146

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00190	-.00588	.00232	.0006	.1680	.04129
SDev	.00146	.00204	.00239	.0004	.0003	.0001
%RSD	77.065	34.811	103.2	56.48	.1746	.24348

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00527	.00962	.15872
SDev	.00237	.00026	.00021
%RSD	45.053	2.7272	.13591

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 17:18 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25570	40.601	2.0496	2.0727	2.0693	2.0666
SDev	.00052	.04643	.00473	.00079	.00132	.00293
%RSD	.20723	.11436	.23124	.03852	.06387	.14224

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.774	2.0328	2.0235	2.0194	2.0177	40.460
SDev	.10323	.003	.00291	.00422	.00221	.05165
%RSD	.25318	.14806	.14389	.209	.10965	.12767

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.456	40.748	2.0271	2.0297	40.28	2.0435
SDev	.02632	.06615	.00243	.01638	.0897	.00377
%RSD	.0635	.16235	.12027	.80729	.2226	.18481

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0141	2.0317	2.0261	2.0533	2.0351	2.0229
SDev	.00186	.00359	.00197	.00179	.10301	.13314
%RSD	.09245	.17686	.09762	.08746	5.062	6.5819

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0591	2.0880	2.0358	1.985	1.896	2.0478
SDev	.0427	.00094	.00293	.004	.0003	.00412
%RSD	2.0742	.04532	.14429	.2022	.0158	.2012

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9991	2.0353	2.0479
SDev	.01902	.001	.00341
%RSD	.95178	.04956	.16654

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 17:29 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00033	-.00663	.00005	.00143	.00005	.00000
SDev	.00037	.00291	.00043	.00079	.00002	0
%RSD	114.24	43.881	762.9	55.276	44.816	91.138

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00422	-.00002	.00000	.00037	-.00104	.00742
SDev	.00027	.00008	.00002	.00025	.00005	.00666
%RSD	6.4936	430.32	363.35	66.986	5.0217	89.788

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02529	.00109	-.00007	.00038	-.0365	-.00029
SDev	.00855	.00285	.00002	.00032	.0844	.00022
%RSD	33.817	259.9	26.736	86.057	231.3	74.533

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00002	-.00058	-.00013	-.00108	.00210	.00168
SDev	.00051	.00113	.00091	.00082	.00077	.00095
%RSD	2067.7	194.17	698.49	75.942	36.907	56.627

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00241	.00092	-.00237	-.0016	.0000	.00029
SDev	.00043	.00037	.00102	.001	0	0
%RSD	18.063	40.275	43.322	65.67	44.92	.64106

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00042	.00009	.00007
SDev	.00165	.00015	.0002
%RSD	393.45	167.45	259.61

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10479-MB1 Operator:
Run Time: 10/17/09 17:36 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00025	.00968	.00089	.00156	.00078	-.00004
SDev	.00014	.00336	.00175	.0006	.00002	.00002
%RSD	57.65	34.793	195.57	38.766	3.0581	52.661

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.10298	.00000	.00010	.00051	-.00070	.01711
SDev	.00555	.00004	.00005	.00003	.00037	.00455
%RSD	5.3969	497.8	55.191	6.9745	53.847	26.637

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01951	.01687	.00492	.00011	.0145	-.00036
SDev	.00371	.00954	.00049	.00064	.0523	.00065
%RSD	19.02	56.548	10.119	557.48	359.4	176.76

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00137	-.00042	.00044	-.00154	.00063	-.00023
SDev	.00139	.00146	.00051	.00067	.00168	.00259
%RSD	101.12	346.58	115	43.404	267.87	1121.2

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00182	-.00041	-.00240	.0000	.0002	.00047
SDev	.00099	.00058	.00073	.0004	0	0
%RSD	54.347	141.17	30.667	10080	5.478	.09859

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00003	.00017	.00955
SDev	.00064	.00022	.00109
%RSD	1612.3	130.47	11.432

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10479-LC1 Operator:
Run Time: 10/17/09 17:42 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.73879	112.65	1.7446	1.4302	3.9139	1.1980
SDev	.00091	.3313	.00633	.00432	.0119	.0034
%RSD	.1242	.29409	.36286	.30239	.30412	.28415

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	105.02	2.0018	3.0205	.96215	1.4446	208.92
SDev	.49342	.00539	.00826	.00187	.00468	.6756
%RSD	.46985	.26944	.27375	.1953	.32454	.32337

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.807	54.913	6.9618	.92383	7.864	1.0918
SDev	.19669	.1729	.01897	.00955	.0591	.00289
%RSD	.47048	.31487	.27251	1.0345	.7511	.2653

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.7418	1.8940	1.8436	1.5645	1.0274	1.0365
SDev	.00436	.01801	.01349	.00401	.0241	.03142
%RSD	.2504	.95124	.73179	.25662	2.3465	3.0316

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.0089	1.5768	1.5584	1.353	1.773	6.0975
SDev	.00983	.00609	.00904	.004	.0033	.00928
%RSD	.97471	.38652	.5802	.2972	.185	.15219

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.8343	2.1704	4.1364
SDev	.08811	.00406	.00959
%RSD	3.1089	.18748	.23202

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39519-15 Operator:
Run Time: 10/17/09 17:49 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00036	91.153	.03869	.01456	1.5208	.00731
SDev	.00051	.37428	.00056	.0005	.0033	.00003
%RSD	143.32	.41061	1.4657	3.4728	.21724	.4898

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	43.729	.00266	.05501	.10402	.08685	83.818
SDev	.09725	.00018	.00019	.00031	.00035	.06714
%RSD	.2224	6.7783	.35868	.30405	.41116	.08011

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.5007	9.9243	4.1712	.01385	.7055	.07225
SDev	.0227	.00692	.00261	.00096	.029	.00015
%RSD	.41274	.06979	.06276	6.9289	4.114	.21632

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.18595	.27144	.24322	.00453	.00966	.01568
SDev	.00184	.0033	.00163	.00142	.00238	.00151
%RSD	.99482	1.2193	.6705	31.497	24.676	9.6387

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00274	-.00743	.01034	.0174	.2873	.84064
SDev	.00412	.00409	.00133	.0028	.0005	.00227
%RSD	150.6	55.063	12.887	16.12	.1737	.27005

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00297	.24541	.34259
SDev	.01529	.00023	.00032
%RSD	514.54	.09545	.09569

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10479-D1 Operator:
Run Time: 10/17/09 17:55 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00092	100.39	.03888	.01387	1.6679	.00783
SDev	.00045	.27322	.00071	.00166	.00209	.00006
%RSD	48.633	.27217	1.8432	12.005	.12562	.85075

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	45.852	.00270	.05947	.10977	.09084	88.206
SDev	.22535	.00013	.00042	.00049	.00018	.29613
%RSD	.49148	4.8551	.71194	.45495	.20154	.33572

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.9731	10.817	4.3726	.01316	.7803	.07616
SDev	.02318	.04073	.01105	.00021	.0722	.00037
%RSD	.38819	.37657	.25279	1.6029	9.252	.49317

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.18089	.27342	.24281	.00303	.00421	.01041
SDev	.00254	.00489	.00257	.00159	.00103	.0026
%RSD	1.4081	1.7914	1.061	52.634	24.618	24.968

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00853	-.01175	.01027	.0196	.3011	.89033
SDev	.0024	.00293	.00096	.0016	.0001	.00301
%RSD	28.186	24.958	9.4159	8.381	.0427	.33893

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00658	.24927	.34063
SDev	.00424	.00118	.00095
%RSD	64.543	.47525	.27948

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10479-SD1 Operator:
Run Time: 10/17/09 18:02 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00173	97.674	.04340	.02062	1.6341	.00793
SDev	.00244	.3149	.00332	.00431	.00203	.00004
%RSD	140.66	.3224	7.6669	20.931	.12446	.51708

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	46.225	.00270	.06054	.10957	.08723	89.042
SDev	.0525	.00032	.00066	.00115	.00029	.07145
%RSD	.11357	11.919	1.0937	1.0508	.33351	.08025

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.7177	10.818	4.5443	.01327	.5106	.07625
SDev	.03648	.00185	.00657	.00233	.2872	.00203
%RSD	.63817	.01715	.14463	17.616	56.25	2.6664

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.20661	.29867	.26935	L-.00729	.00958	.01721
SDev	.01028	.01124	.00647	.00393	.00105	.00211
%RSD	4.9761	3.7637	2.4023	53.87	10.952	12.283

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00814	-.02928	.00237	.0212	.3059	.90191
SDev	.0012	.01032	.00293	.0017	.0005	.00626
%RSD	14.799	35.254	123.33	8.142	.1525	.69442

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.01831	.26537	.39176
SDev	.00137	.0006	.00042
%RSD	7.4871	.22894	.10735

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10479-S1 Operator:
Run Time: 10/17/09 18:08 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.52176	148.13	.39722	.84513	1.8771	.39959
SDev	.00065	.06431	.00127	.00194	.00281	.00132
%RSD	.12628	.04341	.3212	.23006	.14987	.33074

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	93.323	.36995	.41904	.47403	.47095	130.84
SDev	.52902	.00088	.00185	.00116	.00082	.48991
%RSD	.56686	.23944	.44217	.24623	.17549	.37444

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	50.194	57.689	4.4041	.37546	48.06	.44310
SDev	.13186	.23102	.01259	.00449	.0476	.00137
%RSD	.26271	.40047	.28593	1.1972	.0991	.30997

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.53848	.67104	.62712	.34523	.20088	.20832
SDev	.00338	.0065	.00346	.00129	.00637	.00837
%RSD	.62832	.96895	.55304	.3753	3.1741	4.0213

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.18572	.33671	.34940	.3667	.6211	1.0065
SDev	.00249	.00441	.00263	.0018	.0005	.0033
%RSD	1.3409	1.3102	.75473	.4798	.0746	.32854

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.34294	.60707	.71763
SDev	.00975	.00118	.00197
%RSD	2.8453	.19572	.27497

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Method: ICAPNC Sample Name: MP10479-S2 Operator:
Run Time: 10/17/09 18:15 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.53525	152.78	.39844	.87767	1.9188	.40704
SDev	.00132	.43725	.00427	.003	.00844	.00135
%RSD	.24782	.28619	1.0736	.34235	.43985	.33288

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	95.440	.37561	.42476	.48211	.48540	132.47
SDev	.53138	.00085	.00198	.00072	.00215	.45647
%RSD	.55677	.22875	.4675	.15036	.44322	.34458

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	51.158	58.856	3.7655	.38160	49.37	.45284
SDev	.37616	.14542	.00856	.00381	.2184	.00162
%RSD	.7353	.24709	.22742	1	.4424	.35887

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.52628	.66220	.61718	.35189	.19786	.20505
SDev	.00164	.00753	.0055	.00111	.00487	.00721
%RSD	.31283	1.1386	.8927	.31581	2.4645	3.5166

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.18320	.34210	.35668	.3718	.6409	1.0381
SDev	.00036	.00289	.00291	.001	.0022	.00198
%RSD	.20156	.84697	.81809	.2619	.3482	.19154

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.34922	.61064	.72398
SDev	.00776	.0006	.00159
%RSD	2.223	.09942	.21977

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39307-1 Operator:
Run Time: 10/17/09 18:21 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00090	10.641	.03019	.13771	.23394	.00289
SDev	.00012	.03448	.00054	.00076	.00027	.00007
%RSD	14.057	.32408	1.8048	.55228	.11829	2.4368

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	129.38	.00235	.00909	.09837	.09158	38.710
SDev	.91423	.00002	.00007	.00053	.00025	.18592
%RSD	.7066	1.1991	.85685	.54714	.27518	.48029

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.8293	2.9156	.46016	.02074	.4751	.02776
SDev	.01485	.01224	.00196	.00068	.0355	.00036
%RSD	.30761	.4201	.4271	3.2954	7.478	1.3051

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.05309	.08208	.07270	-.00045	.00641	.01036
SDev	.00061	.00246	.00185	.0008	.00181	.00292
%RSD	1.1571	3.0081	2.545	177.9	28.266	28.263

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00196	-.01383	.00602	.0313	.0871	.46144
SDev	.0008	.00151	.00172	.001	.0001	.00129
%RSD	40.896	10.917	28.659	3.291	.1017	.28109

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00800	.05763	1.2436
SDev	.00183	.0003	.00415
%RSD	22.9	.52238	.3339

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Method: ICAPNC Sample Name: T39307-2 Operator:
Run Time: 10/17/09 18:28 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00041	26.473	.04665	.20548	.68421	.00252
SDev	.00095	.10248	.00175	.00254	.00223	0
%RSD	228.9	.38714	3.7678	1.2375	.32602	.20635

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	427.11	.00453	.01096	.06366	.03611	36.329
SDev	2.0196	.00003	.00026	.0014	.00007	.14523
%RSD	.47283	.83511	2.3942	2.2059	.19754	.39976

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	7.3245	8.5628	.89962	.04630	.3355	.03328
SDev	.03692	.04014	.00328	.00042	.0653	.00135
%RSD	.50414	.46882	.36526	.90874	19.45	4.0606

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03301	.06605	.05531	.00323	.00564	.00997
SDev	.00249	.00144	.00013	.0002	.00073	.0016
%RSD	7.5489	2.182	.24901	6.2722	13.05	16.128

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00350	-.00729	.00839	.0221	.2228	.56490
SDev	.00135	.00213	.0008	.0021	.0007	.00083
%RSD	38.75	29.256	9.6488	9.437	.3054	.14712

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00906	.08686	7.0160
SDev	.00442	.0001	.03647
%RSD	48.743	.11602	.5199

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Method: ICAPNC Sample Name: T39307-3 Operator:
Run Time: 10/17/09 18:34 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00033	30.569	.03959	.07227	.75784	.00328
SDev	.00033	.09232	.00169	.00223	.00082	.00007
%RSD	99.595	.30204	4.2825	3.0888	.10845	2.2083

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	397.62	.00415	.00970	.05763	.05055	55.623
SDev	2.2226	.00012	.00013	.00029	.00007	.19131
%RSD	.55898	2.997	1.4365	.51001	.14078	.34395

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	12.054	8.9524	1.1565	.04457	-.0980	.03422
SDev	.0679	.0202	.00306	.00065	.0353	.00056
%RSD	.56337	.22569	.26488	1.4745	36.02	1.6605

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03371	.07901	.06418	.00193	.00398	.00859
SDev	.00145	.00199	.00115	.00153	.00224	.00437
%RSD	4.3196	2.5263	1.7973	79.492	56.258	50.823

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00569	-.01057	.00812	.0213	.2297	2.3514
SDev	.00205	.00371	.00132	.0027	.0002	.00583
%RSD	36.047	35.162	16.313	12.45	.0823	.24795

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00986	.08996	5.1564
SDev	.00321	.00059	.00808
%RSD	32.543	.66229	.15673

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 18:42 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25853	40.808	2.0595	2.0923	2.0760	2.0888
SDev	.00128	.22357	.0025	.00663	.006	.006
%RSD	.4951	.54786	.12176	.31702	.28941	.28741

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.283	2.0593	2.0415	2.0464	2.0235	40.865
SDev	.15158	.00616	.00526	.00727	.00636	.13197
%RSD	.3672	.29923	.2581	.3556	.31449	.32295

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.494	41.210	2.0474	2.0359	40.60	2.0675
SDev	.19031	.17301	.00741	.0141	.246	.00616
%RSD	.45866	.41984	.36225	.69275	.6058	.29816

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0369	2.0542	2.0487	2.0555	2.0304	2.0115
SDev	.00829	.00681	.00653	.00259	.10057	.13183
%RSD	.40738	.33163	.31919	.12642	4.9534	6.5542

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0678	2.0903	2.0379	1.985	1.907	2.0507
SDev	.03801	.00793	.00272	.0036	.0064	.00536
%RSD	1.8386	.37948	.13367	.1791	.3368	.26151

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0120	2.0543	2.0646
SDev	.01691	.00702	.00755
%RSD	.84074	.34182	.36573

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 18:54 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00011	-.00683	.00130	.00243	.00007	.00002
SDev	.00023	.00093	.00012	.00067	.00008	0
%RSD	201.67	13.661	9.8349	27.85	112.45	11.925

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00580	.00001	.00003	.00000	-.00115	.00948
SDev	.00098	.00006	.00016	.00018	.00023	.00679
%RSD	17.053	347.22	540.24	4742.2	20.279	71.649

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.03480	.00151	-.00006	.00088	-.0101	.00002
SDev	.00377	.00127	.00003	.0006	.0464	.00015
%RSD	10.842	84.251	52.044	68.317	458.8	578.39

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00022	-.00106	-.00050	-.00140	.00238	.00238
SDev	.00143	.00213	.00089	.00102	.00023	.00022
%RSD	634.73	200.96	178.57	72.984	9.9435	9.4045

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00183	-.00136	-.00171	-.0005	.0000	.00053
SDev	.0008	.0015	.0009	.0014	0	.0001
%RSD	44.183	110.7	52.523	281.9	29.39	18.979

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00039	.00002	.00003
SDev	.00097	.00039	.00007
%RSD	247.82	1370.3	208.59

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Method: ICAPNC Sample Name: T39307-4 Operator:
Run Time: 10/17/09 19:00 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00016	67.989	.04685	.11410	.35984	.00303
SDev	.00059	.10545	.00174	.00169	.00124	.00004
%RSD	367.16	.15511	3.7188	1.4835	.34619	1.5505

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	545.53	.00119	.04490	.09785	.12261	41.795
SDev	2.5955	.00023	.00038	.00081	.0004	.12921
%RSD	.47576	19.688	.86238	.82984	.33114	.30917

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	29.305	18.466	1.2915	.00789	.4545	.05083
SDev	.15566	.02147	.00224	.00033	.0155	.00022
%RSD	.53116	.11632	.17344	4.2955	3.414	.43976

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.35890	.40037	.38681	.00486	.00517	.00816
SDev	.00235	.00267	.00096	.00068	.00035	.00108
%RSD	.65498	.66729	.24839	14.164	6.9352	13.344

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00128	-.00713	.01082	.0242	.6387	.51749
SDev	.00245	.00022	.00106	.0018	.0018	.00066
%RSD	191.41	3.0891	9.8138	7.51	.2798	.12754

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00958	.18546	.36047
SDev	.00248	.00045	.00039
%RSD	25.968	.24571	.10904

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Method: ICAPNC Sample Name: T39394-4 Operator:
Run Time: 10/17/09 19:07 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00127	132.64	.05571	.00740	1.3734	.00821
SDev	.00043	.57851	.00052	.00205	.00206	.00006
%RSD	34.156	.43616	.94742	27.782	.15059	.78604

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	219.46	.00034	.11671	.15600	.08229	149.95
SDev	1.2844	.00037	.00075	.00007	.00033	.53611
%RSD	.58523	108.18	.64818	.05052	.40288	.35752

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	11.586	19.255	4.1237	.01971	1.236	.10161
SDev	.05207	.07593	.01179	.00039	.0604	.0009
%RSD	.44949	.39436	.2861	2.0285	4.887	.89053

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.09838	.24766	.19817	.00145	.00238	.01231
SDev	.00313	.00436	.00186	.0008	.0031	.00449
%RSD	3.1861	1.7613	.94108	55.665	129.98	36.517

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01774	-.01837	.01132	.0181	.3478	1.0712
SDev	.00087	.00287	.00264	.0053	.0007	.00366
%RSD	4.9135	15.621	23.344	29.17	.1997	.34213

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00444	.30874	.38095
SDev	.00475	.00115	.00091
%RSD	107.17	.3746	.23952

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Method: ICAPNC Sample Name: T39394-6 Operator:
Run Time: 10/17/09 19:13 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00056	79.969	.03134	-.02605	.98564	.00465
SDev	.00084	.16889	.0006	.00095	.00135	.00005
%RSD	150.17	.21119	1.9271	3.6767	.1376	1.1133

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1547.3	.00376	.05062	.09922	.10185	102.51
SDev	10.48	.00049	.00018	.00091	.00022	.10227
%RSD	.67732	13.208	.35608	.92606	.21913	.09977

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	16.673	96.756	4.4089	.01447	2.359	.13583
SDev	.06411	.04754	.00296	.00074	.0657	.00075
%RSD	.38454	.04913	.06733	5.1691	2.787	.55471

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.04762	.14813	.11492	.00832	.00747	.01586
SDev	.00214	.00141	.00168	.00079	.00227	.00428
%RSD	4.4971	.95666	1.466	9.5715	30.515	27.02

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00966	-.01394	.01986	.0184	H16.47	.41104
SDev	.00197	.00377	.0008	.0035	.0865	.00101
%RSD	20.404	27.047	4.0271	18.83	.525	.24756

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00706	.18175	.29030
SDev	.00557	.00025	.0008
%RSD	78.848	.14044	.27899

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Method: ICAPNC Sample Name: T39394-8 Operator:
Run Time: 10/17/09 19:20 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00212	42.512	.03908	.00550	.90903	.00329
SDev	.0005	.0659	.00089	.00238	.0004	.00009
%RSD	23.922	.15501	2.2804	43.262	.04433	2.9213

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	133.95	.00342	.04284	.15679	.14620	126.78
SDev	1.1511	.00004	.00006	.00036	.00025	.70527
%RSD	.85933	1.3774	.15027	.23498	.17619	.55631

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.7420	16.987	2.6038	.02983	.7823	.11510
SDev	.01509	.08266	.01208	.00052	.0138	.00062
%RSD	.26296	.48662	.46415	1.7472	1.764	.54025

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.15382	.25592	.22214	-.00090	.00369	.01274
SDev	.00102	.00303	.00223	.00073	.00121	.00117
%RSD	.66532	1.1866	1.0062	81.472	32.962	9.1983

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01473	-.01751	.00729	.0304	.4691	.49775
SDev	.00189	.00241	.00037	.0012	.0008	.00163
%RSD	12.887	13.802	5.1081	4.106	.1602	.32834

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00559	.10596	3.0219
SDev	.00234	.00042	.01265
%RSD	42.002	.40561	.41873

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Method: ICAPNC Sample Name: T39394-11 Operator:
Run Time: 10/17/09 19:26 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00025	141.78	.03846	-.00049	1.0892	.01007
SDev	.00027	.11247	.00067	.00097	.00231	.00006
%RSD	111.08	.07932	1.7424	197.85	.2125	.65283

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	33.865	.00086	.05355	.14048	.14782	107.67
SDev	.03865	.00035	.00031	.00047	.00014	.13359
%RSD	.11414	40.746	.59098	.33761	.09735	.12407

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	6.9745	14.947	2.4595	.01524	5.425	.09698
SDev	.01483	.01352	.00317	.00036	.0307	.00093
%RSD	.21271	.09051	.12915	2.3781	.5657	.96012

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.10779	.22968	.18933	.00270	.00177	.00868
SDev	.00283	.00225	.00061	.00072	.0017	.00356
%RSD	2.6283	.98255	.32451	26.75	96.21	41.023

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01235	-.01123	.00952	.0193	.2856	.81688
SDev	.0033	.00243	.00223	.003	.0006	.00207
%RSD	26.756	21.666	23.462	15.74	.1943	.25345

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00620	.28800	.31155
SDev	.00458	.00046	.00037
%RSD	73.932	.1616	.12089

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Method: ICAPNC Sample Name: T39519-3 Operator:
Run Time: 10/17/09 19:33 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00012	122.51	.04306	.07184	.89748	.01006
SDev	.00048	.06711	.00033	.00093	.00095	.00007
%RSD	395.1	.05478	.77142	1.298	.10691	.77606

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.954	.00061	.05258	.12221	.09227	108.84
SDev	.21523	.00018	.00023	.00024	.00042	.38383
%RSD	.51301	29.777	.45234	.20452	.46401	.35264

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	7.0225	13.895	1.8486	.01504	1.276	.07516
SDev	.03458	.03258	.00461	.0004	.0227	.00016
%RSD	.49247	.2345	.24981	2.6842	1.777	.21338

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.07854	.19424	.15594	.00145	.00221	.00867
SDev	.00227	.00282	.00114	.00071	.00175	.00245
%RSD	2.9014	1.4533	.73427	49.218	79.137	28.32

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01100	-.01144	.00776	.0188	.2935	.79086
SDev	.0013	.00281	.00246	.0027	.0003	.0021
%RSD	11.864	24.606	31.76	14.31	.0932	.26622

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00551	.26044	.27208
SDev	.00428	.00103	.00064
%RSD	77.697	.39769	.23594

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Method: ICAPNC Sample Name: T39519-9 Operator:
Run Time: 10/17/09 19:39 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00097	115.85	.06069	.01465	1.1483	.00783
SDev	.00048	.24111	.0012	.00131	.00204	.00002
%RSD	50.29	.20813	1.9788	8.9965	.1779	.3432

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	48.203	.00346	.04581	.14657	.08816	134.66
SDev	.05998	.00019	.00027	.00087	.00011	.17408
%RSD	.12444	5.5409	.60594	.598	.12882	.12927

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	10.974	11.597	2.7145	.01840	.0709	.08085
SDev	.03758	.0154	.00272	.00042	.0799	.00032
%RSD	.34244	.13285	.10021	2.2948	112.8	.40541

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.27996	.41350	.36928	.00030	.00127	.01004
SDev	.00424	.00428	.00145	.00043	.00067	.00196
%RSD	1.5155	1.0355	.39374	139.91	53.484	19.588

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01655	-.01646	.00857	.0211	.2147	1.2482
SDev	.0019	.00122	.00122	.0031	.0004	.00075
%RSD	11.515	7.434	14.338	14.89	.1646	.06031

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00530	.29979	.79406
SDev	.00298	.0004	.00028
%RSD	56.268	.1365	.03591

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Method: ICAPNC Sample Name: T39519-13 Operator:
Run Time: 10/17/09 19:46 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00244	211.37	.06788	-.00410	2.5586	.01315
SDev	.00071	.40422	.00124	.00278	.004	.00002
%RSD	29.148	.19124	1.8307	67.965	.15664	.18571

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	53.780	-.00197	.08911	.22075	.12268	244.26
SDev	.11859	.00046	.00004	.00057	.00012	.4462
%RSD	.22051	23.747	.05457	.25968	.09889	.18267

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	15.788	23.566	3.3663	.03000	.2941	.20048
SDev	.02773	.03487	.00253	.00035	.1041	.0003
%RSD	.17567	.14798	.07545	1.1823	35.38	.15047

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.01885	.26498	.18322	-.00068	.00154	.01660
SDev	.00138	.00423	.00238	.00097	.00242	.00392
%RSD	7.3425	1.5994	1.3002	143.02	156.91	23.666

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02865	-.02486	.01141	.0191	.3025	1.0676
SDev	.00135	.00355	.00304	.0046	.0004	.00216
%RSD	4.7356	14.308	26.714	23.99	.1262	.20242

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00163	.32467	.45108
SDev	.00538	.00018	.00051
%RSD	328.78	.05776	.11444

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Method: ICAPNC Sample Name: T39519-20 Operator:
Run Time: 10/17/09 19:52 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00064	136.73	.04099	.06298	.82113	.01127
SDev	.00055	.17468	.00198	.00107	.00098	.00012
%RSD	85.231	.12776	4.8324	1.6997	.1198	1.1522

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	51.701	-.00090	.03076	.12288	.09066	120.40
SDev	.4996	.00036	.00056	.00036	.00048	.84437
%RSD	.96634	39.76	1.831	.29519	.53135	.70131

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	6.1968	16.151	.76678	.01511	2.109	.07393
SDev	.03448	.11986	.00355	.00126	.0303	.00032
%RSD	.55653	.74213	.46425	8.3592	1.439	.44298

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03256	.15943	.11737	.00252	-.00006	.00663
SDev	.00665	.00715	.00277	.00099	.00328	.00717
%RSD	20.44	4.4865	2.3673	39.582	4872.7	108.2

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01376	-.00879	.00805	.0182	.3460	.48428
SDev	.00452	.00677	.00211	.0032	.0002	.00205
%RSD	32.874	76.982	26.295	17.39	.0488	.42496

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00492	.23840	.15970
SDev	.00456	.00176	.0011
%RSD	92.803	.74011	.69319

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Method: ICAPNC Sample Name: T39898-1 Operator:
Run Time: 10/17/09 19:59 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00374	144.72	.09716	.02951	H32.615	.01232
SDev	.00026	.30808	.00119	.0032	.08254	.00005
%RSD	7.0713	.21288	1.235	10.843	.25307	.44089

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	315.38	.00375	.11224	.20644	.22432	284.06
SDev	1.2988	.00024	.00068	.00025	.00055	.86814
%RSD	.41182	6.6419	.61371	.12332	.2491	.30562

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	28.480	82.579	4.4003	.05825	45.73	.29433
SDev	.09361	.20994	.01513	.00052	.0023	.00079
%RSD	.32871	.25423	.3439	.89987	.1983	.2717

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.01789	.27899	.19228	.00110	.00701	.02630
SDev	.00276	.00349	.00143	.00149	.00193	.00341
%RSD	15.463	1.2516	.74861	134.64	27.635	12.991

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03154	-.02500	.01430	.0139	1.622	1.5739
SDev	.00111	.00264	.0034	.0039	.0023	.007
%RSD	3.5365	10.584	23.821	27.78	.1409	.44483

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00127	.43970	.94804
SDev	.00657	.00135	.0016
%RSD	513.36	.3077	.16916

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 20:07 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25958	40.932	2.0727	2.1072	2.0768	2.1034
SDev	.00012	.20765	.00095	.00732	.00315	.00342
%RSD	.05001	.50731	.04624	.34778	.15205	.16262

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.709	2.0832	2.0580	2.0643	2.0247	41.177
SDev	.04929	.00143	.00167	.00137	.00598	.0231
%RSD	.11818	.06897	.08132	.06649	.29566	.05611

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.409	41.480	2.0621	2.0442	40.68	2.0925
SDev	.20941	.01705	.00043	.02206	.3179	.00194
%RSD	.50572	.04111	.02103	1.0795	.7814	.09313

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0593	2.0743	2.0695	2.0618	2.0299	2.0036
SDev	.00381	.00149	.00146	.00115	.10384	.13386
%RSD	.18545	.07202	.07059	.05616	5.116	6.6814

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0821	2.1030	2.0410	1.985	1.909	2.0609
SDev	.0438	.0062	.00432	.0096	.0027	.00324
%RSD	2.1037	.29508	.21168	.4844	.1439	.15762

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0213	2.0673	2.0830
SDev	.01942	.00105	.00057
%RSD	.96106	.05091	.02756

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 20:19 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00040	.00396	.00114	.00232	.00006	-.00006
SDev	.00023	.00066	.00158	.00057	.00003	0
%RSD	57.326	16.667	138.46	24.728	60.232	10.655

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00144	.00001	-.00009	-.00036	-.00128	.00229
SDev	.00027	.00011	.0004	.00023	.00027	.00295
%RSD	19.115	881.79	418.6	64.885	21.225	128.98

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00476	.00072	-.00007	.00064	-.0829	-.00038
SDev	.0035	.00095	.00003	.00019	.0474	.00033
%RSD	73.593	131.7	48.451	30.834	57.15	88.679

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00086	-.00171	-.00116	-.00037	.00225	.00209
SDev	.00089	.00113	.00093	.00124	.0019	.00241
%RSD	103.54	66.185	80.204	329.21	84.526	115.43

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00204	.00022	-.00096	-.0006	.0000	.00065
SDev	.00109	.00157	.00108	.0011	0	0
%RSD	53.285	703.96	111.94	190.8	56.03	.05108

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00004	.00009	-.00001
SDev	.00209	.00031	.00007
%RSD	4806.5	344.04	614.58

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Method: ICAPNC Sample Name: MP10468-MB1 Operator:
Run Time: 10/17/09 20:25 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00005	-.00271	.00047	.00181	.00007	-.00001
SDev	.00033	.00205	.00088	.00054	.00004	0
%RSD	619.51	75.584	185.87	29.97	58.04	26.844

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00495	.00006	.00008	-.00040	-.00109	.00747
SDev	.00094	.00014	.00012	.00027	.00029	.00827
%RSD	19.177	231.06	153.43	67.481	27.313	110.62

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.03044	.00201	.00000	.00011	-.0732	-.00016
SDev	.01287	.00197	.00002	.00018	.0622	.00059
%RSD	42.294	97.938	337.54	158.04	85.08	355.29

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00006	-.00009	.00015	.00000	-.00008	-.00007
SDev	.00063	.00095	.00078	.0016	.00083	.00183
%RSD	931.4	989.27	523.94	58392	950.12	2301.2

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00064	-.00198	.00071	-.0006	.0000	.00035
SDev	.00123	.00119	.00233	.0009	0	.00026
%RSD	192.51	60.376	326.24	156.5	16.04	74.633

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00127	.00041	.00000
SDev	.00074	.00013	.0001
%RSD	58.277	33.282	1820.9

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Method: ICAPNC Sample Name: MP10468-LC1 Operator:
Run Time: 10/17/09 20:31 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.63460	123.90	1.3846	1.2012	3.0870	.89573
SDev	.00119	.46015	.00186	.00566	.00735	.00135
%RSD	.18874	.37139	.13485	.47168	.23831	.15128

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	83.447	1.6181	2.2897	.78025	1.1017	190.49
SDev	.15106	.00251	.00212	.00121	.00458	.12842
%RSD	.18103	.15517	.09292	.15526	.4165	.06741

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	38.483	45.627	5.7354	.73569	6.072	.84367
SDev	.23095	.03608	.00582	.00431	.0581	.00085
%RSD	.60013	.07909	.10161	.58646	.9575	.10169

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.3596	1.5186	1.4658	1.2813	.88506	.88897
SDev	.00586	.00358	.00051	.0016	.02667	.03461
%RSD	.4316	.23575	.035	.12497	3.0136	3.8942

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.87709	1.2926	1.2756	1.023	1.364	6.1665
SDev	.01093	.00588	.00521	.0017	.0032	.00175
%RSD	1.2471	.45538	.40915	.1674	.2311	.02849

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.3748	1.7544	3.3635
SDev	.08612	.00148	.00468
%RSD	3.6268	.08474	.13919

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Method: ICAPNC Sample Name: T39522-8 Operator:
Run Time: 10/17/09 20:38 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00021	276.39	.05077	.06073	2.3315	.01430
SDev	.00053	.82603	.00321	.00174	.00551	.00008
%RSD	251.14	.29886	6.3305	2.869	.23647	.59863

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	35.550	-.00172	.08513	.25062	.08261	173.18
SDev	.24841	.00045	.00129	.00116	.00037	.77665
%RSD	.69878	26.381	1.5165	.46515	.45572	.44846

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	18.775	27.582	1.9241	.02277	2.741	.13684
SDev	.08541	.13432	.00587	.00108	.0569	.00061
%RSD	.45494	.48702	.30529	4.7471	2.075	.45014

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.05549	.26436	.19501	.00224	.00559	.01451
SDev	.00822	.00717	.00208	.00114	.00175	.00587
%RSD	14.83	2.714	1.0707	50.928	31.431	40.437

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01245	-.01440	.01050	.0219	.2671	1.2556
SDev	.00845	.00908	.00368	.0051	.0003	.00173
%RSD	67.882	63.053	35.093	23.31	.0964	.1378

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00601	.47140	.38497
SDev	.01704	.00234	.00152
%RSD	283.21	.497	.39559

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Method: ICAPNC Sample Name: MP10468-D1 Operator:
Run Time: 10/17/09 20:44 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00000	224.06	.03960	.04947	1.6287	.01153
SDev	.0002	.43646	.00184	.00156	.00361	.00001
%RSD	9753.5	.1948	4.6702	3.1533	.22169	.12238

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	30.651	-.00146	.06617	.20401	.06744	141.59
SDev	.04782	.00037	.00022	.00069	.00031	.22557
%RSD	.15602	25.815	.33881	.3387	.46233	.15932

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	14.958	22.270	1.5598	.01836	2.181	.09792
SDev	.04608	.03998	.00215	.00076	.0318	.0007
%RSD	.30809	.17955	.13838	4.1688	1.456	.71983

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03594	.21329	.15444	-.00058	.00273	.01182
SDev	.00155	.00041	.00036	.00106	.00036	.00118
%RSD	4.314	.19529	.2335	181.38	13.227	10.004

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01567	-.01454	.00628	.0184	.2137	1.0399
SDev	.00155	.00262	.00049	.0033	.0004	.00174
%RSD	9.8896	18.08	7.8527	17.73	.1891	.16789

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00004	.38926	.23539
SDev	.00628	.00089	.00011
%RSD	14818	.23085	.04875

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Method: ICAPNC Sample Name: MP10468-SD1 Operator:
Run Time: 10/17/09 20:51 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00014	313.87	.06727	.07836	2.6101	.01603
SDev	.0016	1.8821	.00754	.00287	.00323	.00027
%RSD	1091.5	.59966	11.215	3.6628	.12387	1.7125

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	39.236	-.00191	.09680	.28336	.08513	190.81
SDev	.25319	.0003	.00218	.00204	.00104	1.036
%RSD	.64531	15.662	2.257	.72148	1.2272	.54294

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	19.876	31.033	2.1674	.02239	2.823	.15464
SDev	.08955	.15698	.01005	.00271	.2333	.00124
%RSD	.45054	.50585	.46406	12.142	8.264	.80621

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.06420	.30455	.22563	.00116	.01013	.02212
SDev	.00578	.00378	.00239	.00483	.00295	.00409
%RSD	9.0042	1.2435	1.0623	415.25	29.128	18.502

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01609	-.02309	.01219	.0245	.2963	1.4227
SDev	.00208	.0059	.00594	.0012	.0007	.00482
%RSD	12.944	25.555	48.718	4.96	.2238	.33903

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00386	.52857	.41505
SDev	.016	.00261	.00216
%RSD	413.76	.49556	.52266

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Method: ICAPNC Sample Name: MP10468-S1 Operator:
Run Time: 10/17/09 20:57 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.34655	322.03	.41494	.98166	2.6892	.39043
SDev	.00033	.82243	.00153	.00045	.00031	.00082
%RSD	.09716	.25539	.3704	.04646	.01182	.21209

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	82.126	.35527	.43789	.60512	.46189	217.07
SDev	.1472	.00015	.00066	.00064	.00074	.34255
%RSD	.17924	.04255	.15094	.10675	.16169	.1578

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	63.574	73.667	2.2661	.38993	50.17	.48985
SDev	.22097	.08407	.00208	.00388	.2605	.0003
%RSD	.34758	.11413	.09204	.99705	.5193	.06178

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.37566	.63332	.54772	.35235	.36516	.37380
SDev	.00401	.00755	.00387	.00009	.01355	.018
%RSD	1.0689	1.1935	.70831	.02765	3.7131	4.8172

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.34780	.34247	.35730	.3676	.5846	1.6466
SDev	.00502	.00618	.00295	.0054	.0001	.00287
%RSD	1.4461	1.8056	.826	1.457	.027	.17479

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.33739	.83327	.72150
SDev	.00744	.00142	.00056
%RSD	2.2059	.1707	.07793

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Method: ICAPNC Sample Name: MP10468-S2 Operator:
Run Time: 10/17/09 21:04 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.32762	323.48	.40990	.96798	2.7041	.38452
SDev	.00071	.8078	.00217	.00316	.00502	.00076
%RSD	.21681	.24972	.53115	.32734	.18579	.1986

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	81.478	.35031	.43323	.60081	.45715	217.37
SDev	.2617	.0003	.00169	.0016	.00123	.58111
%RSD	.3212	.08681	.39019	.26639	.2703	.26734

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	63.127	73.076	2.2731	.38592	49.31	.48199
SDev	.29314	.12813	.004	.0027	.1968	.00144
%RSD	.46437	.17534	.17612	.69977	.3992	.29933

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.37149	.62807	.54283	.34846	.36269	.37228
SDev	.00263	.00476	.00231	.00123	.01138	.01683
%RSD	.70965	.7592	.42624	.35406	3.1382	4.5215

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.34342	.33691	.35424	.3627	.5831	1.7241
SDev	.0011	.0042	.0038	.0051	.001	.00486
%RSD	.32031	1.2486	1.0748	1.394	.1721	.2822

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.33482	.83074	.69024
SDev	.00511	.00194	.00164
%RSD	1.5285	.23364	.23848

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Method: ICAPNC Sample Name: T39188-1 Operator:
Run Time: 10/17/09 21:10 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00772	1.9175	.06972	.01898	3.1554	.00014
SDev	.00038	.00672	.00062	.0022	.00625	.00002
%RSD	4.9693	.35085	.89936	11.618	.19835	15.174

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	8.4497	.00077	.03751	.28609	1.5651	112.20
SDev	.01013	.00027	.00077	.00073	.00195	.06601
%RSD	.12	35.347	2.0654	.25611	.12459	.05883

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.52295	.82221	2.8857	.11905	8.097	.32713
SDev	.0019	.00305	.00153	.00097	.041	.0006
%RSD	.36336	.37155	.05314	.8187	.5067	.18516

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.01610	.06663	.03931	-.00069	.01524	.02117
SDev	.00243	.0014	.00016	.00084	.0007	.00053
%RSD	15.129	2.1113	.40871	122.32	4.5938	2.5209

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00299	-.01101	.00430	.1003	.3334	.07932
SDev	.00298	.00334	.00181	.0014	.0005	.00049
%RSD	99.941	30.332	42.168	1.403	.1507	.62688

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00428	.02729	.16383
SDev	.00342	.00036	.0001
%RSD	79.963	1.3295	.06183

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Method: ICAPNC Sample Name: T39316-15 Operator:
Run Time: 10/17/09 21:17 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.02147	41.496	.05703	-.01130	2.4214	.00349
SDev	.00091	.16916	.00148	.00796	.00737	.00005
%RSD	4.2473	.40767	2.6096	70.418	.30474	1.4686

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H1212.8	.00823	1.4356	2.1394	3.8273	376.80
SDev	4.0896	.00054	.0026	.00588	.01284	.77418
%RSD	.33719	6.6493	.18154	.27519	.33565	.20546

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.6432	30.193	7.2085	.33313	6.214	1.2527
SDev	.02159	.05577	.01694	.00199	.0932	.0029
%RSD	.46517	.18474	.235	.59993	1.5	.23177

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.5448	1.8244	1.7316	.00792	L-.00615	.01324
SDev	.00634	.00897	.00479	.00162	.00194	.00347
%RSD	.41082	.49192	.27675	20.516	31.549	26.255

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.04487	-.03263	.02874	.0499	2.745	1.5501
SDev	.00113	.00243	.002	.0017	.0083	.00303
%RSD	2.5268	7.4703	6.9879	3.48	.3013	.19575

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00206	.22669	1.3470
SDev	.00418	.00036	.00245
%RSD	203.09	.15917	.18239

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Method: ICAPNC Sample Name: T39522-1 Operator:
Run Time: 10/17/09 21:23 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00005	295.54	.03867	.05293	1.6291	.01541
SDev	.00034	.58655	.00119	.00126	.00208	.00012
%RSD	674.52	.19847	3.0855	2.3855	.12774	.81467

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	71.695	-.00215	.08570	.25924	.10282	186.46
SDev	.59722	.00034	.00044	.00103	.00005	1.0027
%RSD	.83301	16.024	.51709	.39941	.05202	.53772

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	18.713	28.483	2.9149	.02385	2.118	.12078
SDev	.03985	.14087	.01304	.00107	.0542	.00066
%RSD	.21299	.49459	.44757	4.5199	2.558	.54801

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00578	.23892	.16148	-.00132	.00183	.01383
SDev	.00273	.00346	.00141	.00073	.00264	.00519
%RSD	47.33	1.4521	.87546	55.663	144.19	37.572

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02233	-.02039	.00816	.0197	.3747	.84668
SDev	.0028	.00533	.00352	.0076	.0006	.00326
%RSD	12.535	26.179	43.167	38.73	.1674	.38614

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00384	.43694	.30229
SDev	.00718	.00167	.00096
%RSD	187.11	.38366	.31954

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 21:31 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25937	40.979	2.0738	2.1064	2.0878	2.0969
SDev	.00053	.06881	.00755	.00799	.00322	.01017
%RSD	.20611	.16792	.3641	.37962	.15456	.48502

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.458	2.0733	2.0484	2.0528	2.0355	40.978
SDev	.2336	.01041	.01019	.00855	.0028	.18307
%RSD	.56347	.5024	.49764	.41681	.13784	.44675

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.556	41.332	2.0532	2.0384	40.65	2.0802
SDev	.1193	.2009	.00846	.01553	.0955	.01091
%RSD	.2871	.48607	.4124	.76208	.235	.52464

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0408	2.0726	2.0622	2.0720	2.0269	2.0008
SDev	.01384	.01303	.0087	.00302	.10065	.13241
%RSD	.67852	.62894	.42217	.14611	4.9658	6.6182

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0788	2.1050	2.0553	1.970	1.915	2.0599
SDev	.03798	.00664	.0067	.0074	.0036	.00559
%RSD	1.8275	.3155	.32646	.376	.1892	.27137

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0244	2.0633	2.0749
SDev	.01585	.00732	.00993
%RSD	.78316	.35511	.47899

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 21:43 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00017	-.00216	.00270	.00275	.00006	.00000
SDev	.00017	.00242	.0003	.00074	.00003	.00002
%RSD	103.47	111.78	11.394	27.066	55.962	417.26

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00500	-.00008	-.00003	-.00046	-.00101	.00542
SDev	.00097	.00007	.00028	.00003	.00019	.00566
%RSD	19.53	86.842	844.8	7.3032	18.856	104.28

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.03107	.00157	-.00007	.00058	-.0875	-.00017
SDev	.00627	.00205	.00001	.00028	.0616	.00082
%RSD	20.203	130.66	22.394	49.323	70.42	474.8

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00037	-.00133	-.00052	-.00011	.00196	.00192
SDev	.00089	.00018	.00024	.00051	.00152	.00216
%RSD	239.97	13.584	45.72	446.45	77.616	112.39

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00151	.00007	-.00049	-.0029	.0000	.00041
SDev	.00045	.00181	.00033	.0013	0	.0001
%RSD	29.715	2438.1	67.736	45.67	38.36	24.267

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00054	.00004	-.00005
SDev	.00316	.00028	.00006
%RSD	577.94	576.05	109.79

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Method: ICAPNC Sample Name: T39522-3 Operator:
Run Time: 10/17/09 21:50 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00216	413.98	.10564	.18633	5.1946	.02197
SDev	.0006	1.4219	.00119	.0027	.00257	.00005
%RSD	28.125	.34345	1.1357	1.4525	.04949	.24792

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	61.387	-.00320	.17096	.38015	.18087	374.93
SDev	.21781	.00068	.00057	.0005	.00049	1.1193
%RSD	.35482	21.207	.3358	.13404	.27617	.29854

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	44.637	80.982	11.555	.04555	3.220	.36287
SDev	.11037	.24612	.02664	.00058	.014	.00119
%RSD	.24728	.30392	.23056	1.2786	.4344	.32882

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.08785	.49138	.35720	L-.00949	.00046	.02440
SDev	.00476	.00641	.00273	.00189	.00549	.0088
%RSD	5.4289	1.3045	.76448	19.939	1176.4	36.069

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.04721	-.03767	.00477	.0206	.4547	.87359
SDev	.00353	.00575	.00557	.0093	.0008	.0031
%RSD	7.4911	15.27	116.82	45.14	.1824	.35551

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00378	.79571	.49717
SDev	.01205	.00208	.00152
%RSD	318.85	.26166	.30579

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Method: ICAPNC Sample Name: T39522-4 Operator:
Run Time: 10/17/09 21:56 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00323	524.38	.04900	.10730	2.3276	.01681
SDev	.00053	1.3961	.00181	.00324	.00355	.00004
%RSD	16.57	.26624	3.6978	3.0214	.15286	.26841

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	44.773	-.00294	.08932	.42377	.12947	294.57
SDev	.08108	.0006	.0004	.00047	.0004	.4404
%RSD	.18109	20.468	.45778	.11123	.30952	.1495

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	36.620	45.912	1.2721	.03397	14.33	.18899
SDev	.1352	.04411	.00113	.00033	.0678	.00109
%RSD	.36919	.09609	.08902	.98189	.4727	.57846

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.06029	.31647	.19124	-.00459	-.00226	.01510
SDev	.00266	.00313	.00122	.00145	.00459	.00785
%RSD	4.4236	.98933	.63918	31.713	202.69	51.998

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03700	-.02687	.00658	.0241	.2903	1.3315
SDev	.00285	.00864	.00417	.0117	.0004	.00087
%RSD	7.7225	32.179	63.446	48.48	.1226	.06542

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00399	.64773	.47102
SDev	.01354	.00072	.00032
%RSD	339.05	.11136	.06861

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Method: ICAPNC Sample Name: T39522-6 Operator:
Run Time: 10/17/09 22:03 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00152	341.72	.05255	.20003	2.0251	.01506
SDev	.00022	.49523	.00072	.00141	.0026	0
%RSD	14.46	.14492	1.3705	.70653	.12876	.05339

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	407.65	-.00107	.10233	.32866	.39011	234.16
SDev	1.0297	.00039	.00048	.00112	.00024	.44074
%RSD	.25259	36.48	.47715	.34087	.06323	.18822

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	24.973	33.611	2.1140	.03374	4.725	.20317
SDev	.02756	.06409	.00462	.00045	.0512	.0007
%RSD	.11037	.19068	.21873	1.3441	1.083	.34491

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.71588	.99376	.90144	-.00027	.00252	.01773
SDev	.00543	.00878	.00428	.00209	.00281	.00525
%RSD	.7597	.88397	.47525	766.35	111.74	29.626

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02801	-.02536	.01239	.0328	.9928	1.1937
SDev	.00301	.00312	.00366	.0058	.001	.00168
%RSD	10.773	12.306	29.588	17.69	.0977	.14157

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00041	.51010	.64554
SDev	.01071	.00075	.00081
%RSD	2554.2	.14891	.12617

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Method: ICAPNC Sample Name: T39522-10 Operator:
Run Time: 10/17/09 22:09 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00367	404.40	.05614	.07728	2.3781	.01483
SDev	.0002	.38953	.00027	.00137	.00525	0
%RSD	5.5514	.09632	.48581	1.7772	.22105	.01179

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	120.60	-.00067	.08872	.36777	.22187	278.19
SDev	.18488	.00057	.00032	.00077	.0006	.04702
%RSD	.1533	84.87	.36909	.21064	.2745	.0169

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	27.117	33.742	3.6060	.03938	3.933	.35821
SDev	.0523	.00969	.0028	.00028	.0432	.00047
%RSD	.19287	.02874	.07772	.71925	1.098	.13264

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.03394	.30332	.19122	-.00255	.00013	.01748
SDev	.00256	.0051	.00256	.00081	.00374	.00718
%RSD	7.5635	1.6834	1.3423	31.784	2851.2	41.119

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03462	-.02860	.01051	.0274	.4998	1.3521
SDev	.00369	.00562	.00398	.0092	.0009	.00087
%RSD	10.682	19.662	37.9	33.65	.1847	.06487

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00163	.56781	1.7682
SDev	.00905	.00046	.00143
%RSD	553.94	.08218	.08109

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Method: ICAPNC Sample Name: T39522-12 Operator:
Run Time: 10/17/09 22:15 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00246	486.65	.05817	.16753	4.0385	.02114
SDev	.00021	1.4389	.00166	.00215	.00182	.00017
%RSD	8.7873	.29568	2.8661	1.2861	.04507	.82126

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	57.397	-.00350	.13096	.43249	.12976	340.59
SDev	.44643	.00045	.00081	.00186	.0002	2.0134
%RSD	.77779	12.913	.62552	.43068	.15427	.59115

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	36.669	60.010	3.7311	.03819	8.292	.24020
SDev	.02041	.381	.01779	.00124	.0299	.00083
%RSD	.05566	.6349	.47692	3.2512	.3608	.34639

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.06296	.33730	.20422	-.00278	-.00009	.02189
SDev	.00229	.00418	.00207	.00327	.00353	.00696
%RSD	3.6506	1.2421	1.0162	117.84	3760.3	31.797

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.04396	-.03320	.01254	.0229	.4326	.84649
SDev	.00334	.00341	.00594	.0099	.0005	.00359
%RSD	7.6011	10.286	47.368	43.05	.1225	.42512

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00381	.73000	.50623
SDev	.01142	.0034	.00221
%RSD	299.69	.4666	.43809

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Method: ICAPNC Sample Name: T39522-14 Operator:
Run Time: 10/17/09 22:22 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00462	607.03	.08525	.45692	3.6748	.02382
SDev	.00048	.80044	.00141	.00509	.00365	.00003
%RSD	10.383	.13186	1.6566	1.1156	.09942	.12825

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	396.32	-.00113	.12495	.56072	.20312	432.23
SDev	.2777	.00069	.00012	.00062	.00054	.3303
%RSD	.07007	61.721	.09688	.1115	.26955	.07641

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H105.05	165.19	6.7441	.05035	7.798	.34928
SDev	.2105	.1232	.00539	.00094	.0125	.00049
%RSD	.20038	.07458	.07998	1.8811	.1608	.14242

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.17403	.33767	.16753	L-.00912	-.00106	.02503
SDev	.00229	.00546	.0029	.00114	.00389	.00696
%RSD	1.3162	1.6184	1.7316	12.557	367.04	27.824

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.05298	-.04359	.00843	.0133	.8568	2.2242
SDev	.00224	.00813	.003	.0134	.0008	.00463
%RSD	4.2341	18.653	35.573	101.2	.099	.20818

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00698	.77257	.78205
SDev	.0166	.00084	.00075
%RSD	237.8	.10954	.09676

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Method: ICAPNC Sample Name: T39522-16 Operator:
Run Time: 10/17/09 22:28 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00220	486.16	.05493	.10559	2.8281	.01895
SDev	.00045	.08714	.00166	.00307	.00673	.00002
%RSD	20.712	.01792	3.0392	2.915	.23831	.13091

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	52.991	-.00275	.29085	.40149	.11900	308.78
SDev	.10991	.0007	.00024	.00018	.00026	.26529
%RSD	.20742	25.462	.08585	.04694	.22306	.08591

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	36.616	45.416	8.8206	.03657	3.166	.19529
SDev	.06704	.01393	.00359	.00057	.0394	.00029
%RSD	.18311	.03069	.04073	1.5604	1.244	.15084

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.05035	.33030	.20377	-.00417	-.00134	.01693
SDev	.00526	.00458	.00202	.00043	.00379	.00764
%RSD	10.457	1.3895	.99255	10.393	281.39	45.146

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03787	-.02640	.00700	.0177	.3437	1.3933
SDev	.00577	.00854	.00365	.0126	.0006	.00084
%RSD	15.241	32.345	52.122	71.14	.1808	.06033

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00402	.65698	.45111
SDev	.0123	.00027	.00016
%RSD	305.71	.04171	.03617

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Method: ICAPNC Sample Name: T39522-18 Operator:
Run Time: 10/17/09 22:35 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00395	571.50	.08359	.10608	2.7832	.02238
SDev	.0004	1.2629	.00351	.00334	.0073	.00023
%RSD	10.185	.22097	4.2032	3.1493	.26228	1.0578

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	67.704	-.00393	.09497	.47400	.15142	411.65
SDev	.68049	.00083	.00145	.00264	.00018	3.0118
%RSD	1.0051	21.338	1.5355	.55738	.1225	.73162

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	39.485	53.405	1.4477	.04713	3.560	.21668
SDev	.21551	.43364	.00617	.00148	.0399	.00066
%RSD	.54581	.81199	.4263	3.1535	1.12	.30512

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.08915	.38162	.22509	L-.00591	-.00216	.02223
SDev	.0043	.00838	.00417	.00223	.00575	.01264
%RSD	4.8304	2.1979	1.8547	37.816	266.24	56.855

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.05075	-.03878	.01067	.0184	.3866	1.0509
SDev	.00806	.01225	.00624	.0149	.0008	.00386
%RSD	15.889	31.604	58.462	80.71	.1971	.3682

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00699	.83392	.53379
SDev	.01479	.00481	.00326
%RSD	211.46	.57717	.61129

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Method: ICAPNC Sample Name: T39522-20 Operator:
Run Time: 10/17/09 22:41 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00236	384.80	.07358	.11054	2.1537	.01428
SDev	.00045	.19467	.00095	.00241	.00022	.00005
%RSD	19.346	.05059	1.2934	2.1833	.01033	.40986

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	212.17	-.00039	.07026	.34703	.15135	234.31
SDev	.56249	.00041	.00056	.00033	.00004	.4373
%RSD	.26511	104.22	.80752	.09648	.03078	.18663

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	33.282	42.745	2.2017	.03100	3.216	.18132
SDev	.04053	.0759	.00149	.00049	.0711	.00046
%RSD	.1218	.17756	.06769	1.5897	2.211	.25706

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03618	.33202	.23372	-.00060	.00506	.02019
SDev	.00334	.00305	.0014	.00136	.00023	.00186
%RSD	9.25	.91872	.6028	224.34	4.6289	9.2365

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02532	-.02551	.01188	.0246	.5045	1.2441
SDev	.00376	.00782	.00474	.0093	.0001	.0023
%RSD	14.866	30.675	39.922	37.85	.0171	.18489

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00154	.55914	2.1059
SDev	.0098	.00153	.00289
%RSD	636.08	.2752	.13768

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Method: ICAPNC Sample Name: T39522-22 Operator:
Run Time: 10/17/09 22:48 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00246	398.26	.05848	.10637	3.1311	.01561
SDev	.00077	.14864	.00081	.0034	.00794	.00003
%RSD	31.644	.03732	1.3922	3.1997	.25359	.24909

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	215.83	-.00162	.11056	.33596	.13591	261.09
SDev	.35236	.0007	.00003	.00085	.00034	.40247
%RSD	.16325	43.486	.03381	.25443	.25714	.15415

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	33.156	44.196	3.8291	.03395	3.474	.19384
SDev	.02975	.04835	.00416	.001	.0679	.00085
%RSD	.08974	.10941	.10883	2.9637	1.955	.43987

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.07356	.24646	.14013	-.00247	.00004	.01566
SDev	.00254	.00194	.00048	.00249	.00164	.00396
%RSD	3.463	.7895	.34768	100.85	3328.3	25.289

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.03124	-.02489	.00882	.0228	.5014	1.1809
SDev	.00421	.00644	.0015	.011	.001	.00276
%RSD	13.478	25.902	17.079	47.96	.2062	.23406

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00467	.57588	.43927
SDev	.01101	.00038	.00035
%RSD	235.76	.06736	.08182

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 22:56 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.26131	41.271	2.0838	2.1199	2.0940	2.1215
SDev	.00142	.162	.00648	.00868	.00903	.00907
%RSD	.54485	.39253	.31102	.40974	.43171	.42774

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	42.083	2.0974	2.0702	2.0781	2.0430	41.423
SDev	.23488	.01308	.00983	.01182	.00613	.21571
%RSD	.55814	.62369	.47516	.56885	.30013	.52077

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.562	41.739	2.0731	2.0555	40.89	2.0963
SDev	.14225	.19903	.01125	.01103	.1713	.01222
%RSD	.34228	.47685	.54293	.53689	.4191	.58324

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0658	2.0935	2.0846	2.0846	2.0406	2.0148
SDev	.00985	.00607	.00734	.00284	.09513	.12389
%RSD	.47711	.29022	.35238	.13625	4.6622	6.1492

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0920	2.1190	2.0672	1.985	1.930	2.0734
SDev	.03757	.00417	.00378	.0048	.009	.00741
%RSD	1.796	.19706	.18323	.2398	.4645	.35784

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0339	2.0828	2.0953
SDev	.01642	.01067	.00952
%RSD	.80748	.5127	.45464

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/17/09 23:08 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00034	.00184	.00103	.00208	.00009	-.00005
SDev	.00051	.00144	.00052	.00082	.00002	.00001
%RSD	147.77	78.507	50.987	39.661	27.871	28.36

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00222	.00000	-.00017	-.00050	-.00083	.00175
SDev	.0004	.00005	.00027	.00003	.00006	.00051
%RSD	18.254	697	157.83	6.6074	7.5807	29.164

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00134	.00111	-.00004	.00017	-.0301	-.00021
SDev	.00106	.00065	.00003	.00041	.0335	.00053
%RSD	78.789	59.103	76.109	238.35	111.3	249.17

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00003	-.00131	-.00060	-.00085	.00173	.00078
SDev	.00078	.00225	.00134	.00072	.00199	.00238
%RSD	2086.1	170.84	224.18	84.205	114.91	304.11

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00312	-.00196	-.00060	-.0013	.0000	.00065
SDev	.00124	.00166	.00148	.0005	0	0
%RSD	39.776	84.899	246.37	40.33	12.44	.03679

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00024	.00008	-.00013
SDev	.00094	.00003	.00007
%RSD	383.55	42.342	57.717

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Method: ICAPNC Sample Name: T39522-24 Operator:
Run Time: 10/17/09 23:14 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00028	237.96	.04951	.04450	.82384	.01050
SDev	.00065	.35938	.00119	.00258	.00062	.00005
%RSD	234.74	.15102	2.4185	5.8038	.07574	.4889

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	30.450	-.00217	.05166	.23147	.06295	185.48
SDev	.04071	.00019	.00033	.00074	.0003	.20888
%RSD	.13372	9.014	.64687	.32325	.47996	.11262

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	14.809	18.218	.97293	.02577	1.114	.07784
SDev	.01681	.02879	.00177	.00045	.0545	.00041
%RSD	.11353	.15807	.18266	1.7771	4.896	.53458

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00021	.21155	.14139	.00277	.00158	.01327
SDev	.00138	.00304	.00157	.00064	.00326	.00586
%RSD	636.28	1.4407	1.1153	23.322	205.47	44.204

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02198	-.01828	.01321	.0194	.1885	1.3235
SDev	.002	.00524	.00276	.0061	.0001	.00166
%RSD	9.1102	28.688	20.931	31.63	.0795	.12598

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00310	.53400	.20245
SDev	.00651	.00069	.00025
%RSD	209.51	.12954	.12505

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Method: ICAPNC Sample Name: T39522-26 Operator:
Run Time: 10/17/09 23:21 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00097	361.14	.04012	.07981	1.8723	.01466
SDev	.00051	1.2027	.00017	.00243	.00351	.00001
%RSD	52.369	.33304	.44325	3.0481	.18788	.09307

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	48.247	-.00181	.06903	.30713	.10842	206.77
SDev	.10697	.00044	.00022	.001	.00044	.47943
%RSD	.22173	24.582	.33181	.32693	.40916	.23186

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	25.660	34.587	1.2174	.02503	3.761	.13169
SDev	.07969	.09107	.00367	.0006	.0728	.00035
%RSD	.31059	.26331	.30172	2.4031	1.936	.27202

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00197	.26464	.17609	.00038	.00019	.01216
SDev	.00356	.0032	.00095	.00206	.0021	.00536
%RSD	180.67	1.2127	.5403	533.17	1095.5	44.086

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02389	-.02005	.01057	.0173	.3304	1.0680
SDev	.00441	.00883	.00134	.0084	.0007	.00154
%RSD	18.478	44.037	12.686	48.89	.1974	.14513

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00150	.53734	.33319
SDev	.00873	.00104	.0004
%RSD	578.99	.19385	.12245

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Method: ICAPNC Sample Name: T39522-28 Operator:
Run Time: 10/17/09 23:27 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00198	241.37	.07838	.05437	1.6389	.01154
SDev	.00034	.7988	.00079	.0026	.00429	.00005
%RSD	17.587	.33094	1.0167	4.8001	.26234	.47935

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	243.58	.00096	.08239	.27962	.21252	228.19
SDev	.61159	.00031	.00034	.0006	.00113	.47066
%RSD	.25108	33.284	.42464	.21772	.5343	.20625

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	18.407	24.605	2.3472	.03099	5.138	.13766
SDev	.08478	.02239	.00254	.00051	.0792	.0007
%RSD	.46061	.091	.10849	1.6604	1.541	.51185

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.36014	.60992	.52700	.00152	.00369	.01887
SDev	.00112	.00515	.00309	.00183	.00254	.00466
%RSD	.31338	.84549	.58658	120.8	68.783	24.725

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02679	-.01923	.01193	.0239	.6254	.90516
SDev	.0018	.0047	.00226	.0041	.0013	.00226
%RSD	6.7311	24.443	18.965	17.01	.2106	.25052

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00068	.61664	4.7286
SDev	.00767	.00106	.00355
%RSD	1124.5	.17194	.07526

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Method: ICAPNC Sample Name: T39529-1 Operator:
Run Time: 10/17/09 23:34 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01444	88.866	.04574	.60119	5.5647	.00110
SDev	.00043	.15171	.00108	.00299	.02326	.00002
%RSD	2.9999	.17071	2.367	.49892	.41804	2.3053

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	216.26	.00472	.00905	.08560	2.0165	24.793
SDev	1.4222	.00017	.00026	.00046	.00758	.10897
%RSD	.65759	3.6561	2.9167	.54106	.37636	.43952

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	24.443	21.172	1.7871	.04933	43.71	.06910
SDev	.15418	.05698	.0049	.00146	.1302	.00092
%RSD	.63076	.26913	.27449	2.979	.2979	1.3321

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.06631	.10760	.09406	.05000	.01085	.01206
SDev	.00084	.00179	.00094	.0012	.0004	.00033
%RSD	1.2723	1.6688	1.003	2.4002	3.7696	2.7572

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00796	.04578	.05195	.2217	2.458	.17268
SDev	.00181	.00128	.00182	.0009	.0059	.00089
%RSD	22.832	2.8161	3.5129	.4227	.2406	.51631

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00979	.06633	4.1001
SDev	.00223	.00041	.00792
%RSD	22.768	.62047	.1933

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Method: ICAPNC Sample Name: T39532-1 Operator:
Run Time: 10/17/09 23:40 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00122	513.68	.12347	.03220	.34598	.00278
SDev	.0002	2.0418	.00108	.00156	.0017	.00005
%RSD	16.888	.39748	.87662	4.8614	.49265	2.138

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	9.8015	-.00090	.00628	.09861	.13010	46.690
SDev	.0403	.00058	.00022	.00054	.00071	.14393
%RSD	.41119	64.859	3.5167	.55739	.54784	.30828

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.8238	4.2477	2.4654	.01760	5.626	.03306
SDev	.04862	.012	.00673	.00122	.0782	.00068
%RSD	1.0081	.28256	.27297	6.9425	1.389	2.0741

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.11286	.06382	.00523	.00435	-.00100	-.00170
SDev	.00258	.00592	.00343	.00148	.00621	.01156
%RSD	2.2902	9.2759	65.702	34.073	619.14	680.12

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00007	.00161	.00548	.0199	.0904	.36186
SDev	.00451	.00887	.00598	.013	.0004	.00104
%RSD	5652.8	550.59	109.15	65.39	.4327	.2876

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00157	.11987	.08083
SDev	.01078	.00025	.00011
%RSD	685.71	.21242	.14361

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Method: ICAPNC Sample Name: T39533-1 Operator:
Run Time: 10/17/09 23:47 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00251	H1427.1	.59814	.11414	1.4449	.01255
SDev	.00037	5.1621	.00615	.00152	.00492	.00015
%RSD	14.794	.36172	1.0285	1.3344	.34062	1.2616

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	33.923	-.00151	.04480	.17521	2.7141	147.35
SDev	.28361	.0018	.00055	.00087	.01519	.79647
%RSD	.83604	119.23	1.2392	.5012	.55985	.54052

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	15.471	13.448	8.1921	.04109	10.21	.15984
SDev	.14764	.06778	.04018	.00389	.0413	.00049
%RSD	.95433	.50405	.49054	9.4754	.4045	.30841

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.19698	.17418	.05084	.02210	L-.00663	-.00557
SDev	.00967	.00941	.00366	.00219	.0119	.02525
%RSD	4.9128	5.4028	7.2095	9.911	179.33	452.75

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00906	.02379	.02113	.0285	.5384	1.2211
SDev	.01517	.02019	.01322	.0358	.0012	.00467
%RSD	167.44	84.879	62.577	125.9	.2281	.38304

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00983	.35799	.91650
SDev	.03389	.00155	.00274
%RSD	344.73	.43509	.30002

Zoom In
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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/17/09 23:55 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25773	40.934	2.0518	2.0903	2.0772	2.0790
SDev	.00073	.15007	.00671	.00699	.00716	.00684
%RSD	.28452	.36661	.32749	.33484	.34503	.32912

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.226	2.0511	2.0269	2.0352	2.0304	40.565
SDev	.13959	.00712	.00633	.00616	.00843	.10045
%RSD	.3386	.34735	.3125	.30304	.41534	.24764

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.538	40.910	2.0345	2.0205	40.61	2.0513
SDev	.16999	.14759	.00686	.01953	.1439	.00531
%RSD	.40924	.36077	.3376	.9669	.3543	.2589

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0234	2.0572	2.0462	2.0618	2.0139	1.9883
SDev	.00854	.00772	.00755	.00517	.10581	.13611
%RSD	.42224	.37558	.36946	.25075	5.2542	6.8461

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0647	2.0889	2.0481	1.942	1.908	2.0449
SDev	.04548	.00548	.00503	.0036	.007	.00628
%RSD	2.2028	.26274	.24563	.1843	.3657	.30728

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0051	2.0485	2.0603
SDev	.01921	.00776	.00824
%RSD	.95823	.37917	.40005

Zoom In
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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/18/09 00:06 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00028	-.00408	.00122	.00202	.00002	.00002
SDev	.00026	.00156	.00045	.00065	.00002	.00002
%RSD	92.689	38.33	36.631	32.473	102.85	92.632

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00511	.00009	-.00021	-.00040	-.00089	.00368
SDev	.00106	.00005	.00011	.00039	.00014	.00143
%RSD	20.762	63.564	51.581	98.184	16.601	38.917

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02640	.00075	-.00007	.00037	-.0630	-.00020
SDev	.00864	.00111	0	.00036	.0476	.00044
%RSD	32.757	147.71	10.857	99.019	75.56	221.54

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00029	.00000	.00017	.00022	.00160	.00081
SDev	.00085	.001	.00061	.00052	.00238	.00349
%RSD	286.64	13401	354.98	234.76	149.21	428.85

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00264	.00096	-.00044	-.0012	.0000	.00036
SDev	.00019	.0024	.0018	.0002	0	.0001
%RSD	7.4845	249	401.57	17.56	17.58	27.85

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00087	.00017	-.00008
SDev	.00134	.00051	.00004
%RSD	153.94	287.4	50.429

Zoom In
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Method: ICAPNC Sample Name: MP10470-MB1 Operator:
Run Time: 10/18/09 00:13 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00015	-.00722	.00059	.00206	.00004	.00001
SDev	.00012	.00141	.00057	.0005	.00004	.00001
%RSD	84.812	19.568	96.29	24.313	92.104	111.67

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00495	.00005	-.00002	-.00048	-.00080	.00576
SDev	.00065	.00005	.00032	.00027	.00017	.00476
%RSD	13.176	108.19	1329.4	55.67	22.179	82.678

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01443	.00129	-.00009	.00015	-.0402	.00000
SDev	.00521	.00039	.00006	.00052	.022	.00016
%RSD	36.132	30.356	65.178	327.93	54.57	2268.8

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00147	-.00135	-.00112	-.00130	.00088	.00059
SDev	.00262	.00133	.00022	.00106	.00091	.00124
%RSD	178.06	98.684	19.945	81.543	103.7	209.5

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00094	-.00242	-.00102	-.0001	.0000	.00036
SDev	.00112	.0016	.00081	.001	0	.0001
%RSD	118.92	66.106	79.571	676.4	22.36	27.975

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00032	.00023	-.00008
SDev	.0003	.00006	.00002
%RSD	90.955	26.537	35.27

Zoom In
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Method: ICAPNC Sample Name: MP10470-B1 Operator:
Run Time: 10/18/09 00:19 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.40440	53.087	.42119	1.0676	.42293	.42792
SDev	.00058	.11998	.0004	.00162	.00051	.00044
%RSD	.14446	.22601	.09573	.15206	.12292	.10406

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	52.324	.41076	.40479	.40647	.41196	51.281
SDev	.07676	.00052	.00041	.00058	.00027	.03807
%RSD	.14671	.1281	.10256	.14505	.06648	.07424

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	51.834	52.254	.42271	.41519	51.73	.41383
SDev	.15731	.05298	.00055	.00395	.2207	.00131
%RSD	.30348	.1014	.13192	.95366	.4267	.31715

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.37620	.43095	.41299	.42761	.41453	.41409
SDev	.00194	.00032	.00065	.00055	.01533	.01907
%RSD	.51732	.07589	.15964	.12943	3.6981	4.6064

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.41501	.42979	.42632	.3938	.3533	.43557
SDev	.00785	.0016	.00139	.0013	.0004	.00042
%RSD	1.8925	.37242	.32734	.3358	.1161	.09864

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.39262	.41548	.42683
SDev	.01705	.00031	.00031
%RSD	4.3446	.07563	.07277

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Method: ICAPNC Sample Name: T39394-13 Operator:
Run Time: 10/18/09 00:26 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00015	.02745	.00102	.00356	.00062	.00000
SDev	.00028	.00866	.00037	.00072	.00003	.00002
%RSD	179.07	31.579	36.63	20.376	5.0348	695.59

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.14003	-.00006	-.00027	.00000	.00065	.02942
SDev	.00105	.00011	.00026	.00021	.00002	.0033
%RSD	.75513	166.02	97.157	14775	3.8655	11.213

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01390	.01438	.00113	.00168	.4019	-.00022
SDev	.00235	.00208	.00002	.00076	.0599	.00037
%RSD	16.949	14.516	2.4715	45.339	14.91	169.44

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00352	-.00087	.00084	.00060	.00518	.00505
SDev	.00081	.00132	.00065	.00087	.00295	.00417
%RSD	23.011	150.59	77.405	144.08	56.96	82.589

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00490	-.00453	.00288	.0064	.0005	.00083
SDev	.00113	.00073	.00155	.0006	0	.00017
%RSD	23.233	16.292	53.848	10.13	2.108	21.321

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00245	.00018	.00153
SDev	.00226	.00017	.00002
%RSD	92.255	92.365	1.7245

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Method: ICAPNC Sample Name: MP10470-D1 Operator:
Run Time: 10/18/09 00:32 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00019	.02342	.00022	.00231	.00051	-.00003
SDev	.00034	.00086	.00133	.00047	.00005	.00001
%RSD	173.71	3.6978	591.26	20.359	9.6918	34.407

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.13600	.00000	-.00023	-.00008	.00086	.02460
SDev	.00124	.00011	.00028	.00012	.00017	.00904
%RSD	.9144	3559.7	118.19	151.38	20.163	36.763

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.00753	.01576	.00099	.00080	.4368	-.00037
SDev	.00355	.00061	.00004	.00059	.0913	.00067
%RSD	47.175	3.9107	4.2394	73.34	20.9	180.46

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00214	-.00176	-.00021	-.00154	.00146	.00155
SDev	.00111	.00147	.00067	.00088	.00141	.00189
%RSD	51.972	83.337	319.07	57.606	96.791	121.9

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00074	-.00447	-.00037	.0086	.0005	.00071
SDev	.00145	.00162	.00072	.0011	0	.0001
%RSD	196.84	36.225	195.76	12.45	2.047	14.332

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00472	.00011	.00117
SDev	.00096	.00034	.00001
%RSD	20.412	304.09	1.5447

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Method: ICAPNC Sample Name: MP10470-SD1 Operator:
Run Time: 10/18/09 00:39 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00270	.03877	.00571	.00667	.00161	-.00026
SDev	.00091	.00318	.00271	.00106	.00018	.00013
%RSD	33.937	8.2041	47.528	15.909	11.187	51.951

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.17177	-.00036	-.00025	-.00304	-.00268	.03458
SDev	.00514	.00051	.00169	.0003	.00073	.02173
%RSD	2.9974	140.74	666.4	9.9627	27.465	62.838

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	-.04357	.02712	.00092	.00148	.1337	-.00272
SDev	.04067	.0061	.00006	.00066	.2738	.00238
%RSD	93.327	22.513	7.39	45.045	204.8	87.552

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00017	-.00538	-.00235	-.00128	.00233	.00139
SDev	.00565	.00228	.00098	.00499	.00114	.00328
%RSD	3309.6	42.418	41.871	389.95	48.725	235.41

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00156	-.00253	-.00209	.0060	.0008	.00152
SDev	.00315	.0175	.00276	.0069	0	0
%RSD	200.79	690.06	132.3	115.4	4.447	.47413

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00503	.00012	.01345
SDev	.00714	.00159	.00066
%RSD	141.96	1240.3	4.9433

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Method: ICAPNC Sample Name: MP10470-S1 Operator:
Run Time: 10/18/09 00:45 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.14692	52.892	.41364	1.0483	.42141	.42243
SDev	.0005	.1803	.00205	.00272	.00058	.00152
%RSD	.34665	.3409	.49705	.26028	.13788	.36119

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	51.624	.40627	.39909	.40301	.41439	50.834
SDev	.20855	.00121	.00114	.00116	.00105	.19121
%RSD	.40398	.29903	.28629	.28932	.25533	.37614

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	51.474	51.458	.42063	.41655	52.40	.40771
SDev	.13392	.18044	.00104	.00429	.2434	.00193
%RSD	.26018	.35065	.24801	1.0307	.4645	.47349

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.37193	.42458	.40729	.40315	.40665	.40604
SDev	.00225	.0035	.00168	.00139	.01178	.01543
%RSD	.6051	.82435	.41305	.3472	2.897	3.8021

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.40746	.39818	.40543	.4016	.3520	.43338
SDev	.00482	.00125	.00206	.0029	.0006	.00143
%RSD	1.1851	.31537	.5082	.7114	.1759	.3302

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.38286	.41322	.42478
SDev	.02013	.00129	.00138
%RSD	5.26	.31345	.32521

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Method: ICAPNC Sample Name: MP10470-S2 Operator:
Run Time: 10/18/09 00:52 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.14850	54.463	.42307	1.0744	.43279	.43630
SDev	.00037	.26413	.00334	.00619	.00166	.00157
%RSD	.25292	.48498	.78959	.5769	.38566	.36196

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	53.208	.41726	.41124	.41581	.42637	52.485
SDev	.15146	.00124	.00132	.00141	.00215	.12588
%RSD	.28466	.29943	.32156	.33989	.50425	.23984

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	52.480	53.093	.43318	.43054	53.66	.42029
SDev	.32075	.20513	.00171	.00111	.2777	.00176
%RSD	.61119	.38636	.39582	.25791	.5175	.41914

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.38302	.43587	.41854	.41369	.42322	.42394
SDev	.00166	.00238	.00118	.00165	.01	.01275
%RSD	.434	.54653	.28319	.40072	2.3635	3.0088

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.42136	.41144	.41461	.4131	.3619	.44629
SDev	.0045	.00116	.00192	.0023	.0014	.00067
%RSD	1.0686	.2828	.46409	.5632	.3897	.15169

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.39575	.42390	.43667
SDev	.01497	.00138	.00175
%RSD	3.7842	.32571	.40291

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Method: ICAPNC Sample Name: T39524-1 Operator:
Run Time: 10/18/09 00:58 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00024	1.6133	.01105	.10347	.13723	.00030
SDev	.00019	.00979	.00061	.00033	.00026	.00004
%RSD	79.042	.60691	5.5531	.32529	.19461	13.687

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	120.37	.00029	.02868	.01841	.24712	4.1322
SDev	.54371	.00019	.0005	.0003	.00069	.02915
%RSD	.45168	65.37	1.7561	1.6419	.28215	.70562

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H240.95	33.422	1.6231	.00954	H314.4	.01285
SDev	.37765	.12221	.00701	.00041	2.126	.00041
%RSD	.15673	.36567	.43231	4.3633	.6761	3.2259

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00220	.00090	.00161	.01253	.00880	.00952
SDev	.00153	.00155	.00055	.00307	.00124	.00135
%RSD	69.614	170.69	34.389	24.54	14.121	14.23

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00682	.01306	.01202	.0080	.5087	.19504
SDev	.00159	.00206	.00371	.0018	.0008	.0006
%RSD	23.373	15.769	30.872	22.85	.1537	.30909

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.01075	.03921	1.2783
SDev	.00385	.00053	.0038
%RSD	35.808	1.356	.29736

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Method: ICAPNC Sample Name: T37840-1R Operator:
Run Time: 10/18/09 01:05 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01893	153.74	.25082	42.783	H151.48	.00399
SDev	.00294	.53856	.00604	.15241	.68028	0
%RSD	15.569	.35031	2.4113	.35624	.4491	.13813

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2996.2	.01624	.17298	1.7599	31.890	H1337.2
SDev	17.601	.00093	.0005	.0095	.06862	5.4436
%RSD	.58745	5.7446	.29454	.54014	.21518	.40708

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H325.56	870.01	15.065	.65204	H12910.	.75414
SDev	.98634	2.8369	.07092	.00505	36.98	.00649
%RSD	.30296	.32607	.47083	.77471	.2864	.86151

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.52197	1.5954	1.2396	L-.06152	.01647	.13059
SDev	.00211	.00844	.0056	.00706	.0058	.00871
%RSD	.40607	.52907	.45243	11.488	35.202	6.6701

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.21242	-.07979	-.05126	.0773	H100.6	5.5890
SDev	.00233	.01077	.00918	.0027	.336	.01687
%RSD	1.1005	13.501	17.918	3.508	.3341	.30184

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.04145	.24894	H136.74
SDev	.02198	.00085	.92593
%RSD	53.045	.34414	.67717

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Method: ICAPNC Sample Name: T37840-1R Operator:
Run Time: 10/18/09 01:11 Filename: R101709
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01684	149.66	.24105	42.704	H163.29	.00284
SDev	.00224	.59424	.01708	.17788	.43169	.00018
%RSD	13.337	.39706	7.0855	.41655	.26437	6.4657

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H3052.5	.00767	.17464	1.7971	30.692	H1356.6
SDev	6.4352	.00153	.00157	.0073	.10313	3.2239
%RSD	.21081	20.049	.90211	.40624	.33604	.23764

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H291.76	881.59	15.358	.65237	H16810.	.77426
SDev	1.2899	2.3656	.04585	.00694	71.8	.00289
%RSD	.44212	.26833	.29858	1.0642	.4271	.37367

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.53521	1.6286	1.2670	L-.05661	.02623	.15167
SDev	.02439	.0071	.00338	.00849	.01402	.01987
%RSD	4.5587	.43599	.26729	15.012	53.443	13.103

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.22797	-.04566	-.06246	.0637	H173.2	5.6666
SDev	.0139	.02688	.02285	.015	.5438	.00251
%RSD	6.0982	58.881	36.594	23.47	.314	.0444

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.05894	.24441	H199.48
SDev	.0128	.00644	.61347
%RSD	21.724	2.6365	.30753

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/18/09 01:19 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.26095	41.330	2.0857	2.1135	2.0956	2.1110
SDev	.00084	.12137	.0074	.00549	.0075	.01102
%RSD	.32499	.29367	.35514	.26009	.35826	.52225

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.783	2.0867	2.0592	2.0673	2.0558	41.289
SDev	.2339	.00782	.00952	.01072	.00606	.22378
%RSD	.5598	.37515	.46239	.51902	.29488	.54199

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	41.838	41.494	2.0645	2.0531	41.05	2.0848
SDev	.10715	.19161	.00966	.02691	.1301	.00755
%RSD	.25612	.46179	.46812	1.3108	.3168	.3626

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0510	2.0913	2.0781	2.0928	2.0481	2.0284
SDev	.00642	.01437	.01149	.00615	.10951	.1427
%RSD	.31316	.68718	.55307	.29403	5.3473	7.0356

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0870	2.1102	2.0839	1.985	1.919	2.0731
SDev	.04309	.00235	.01034	.0187	.007	.01045
%RSD	2.0651	.11157	.49637	.941	.3653	.50419

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0469	2.0747	2.0828
SDev	.02374	.0097	.01015
%RSD	1.1601	.46786	.48762

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/18/09 01:31 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00008	-.00004	.00071	.00373	.00005	-.00001
SDev	.00015	.00127	.00133	.00084	.00003	.00001
%RSD	185.88	3001.5	187.29	22.663	65.333	113.77

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00387	.00006	-.00041	-.00068	-.00096	-.00776
SDev	.00047	.00005	.00009	.00028	.00024	.00113
%RSD	12.305	81.383	23.422	41.081	25.047	14.64

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	-.00097	-.00166	-.00013	.00028	-.0241	.00002
SDev	.00622	.00107	0	.00024	.0153	.00071
%RSD	636.88	64.875	4.0575	86.129	63.34	2591.3

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00010	-.00002	.00021	-.00031	.00286	.00290
SDev	.0015	.00108	.0003	.00068	.00111	.00108
%RSD	1461.7	3724.9	141.52	221.01	38.777	37.539

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00226	-.00014	-.00068	.0003	.0000	.00053
SDev	.0012	.00257	.00048	.0014	0	.0001
%RSD	53.086	1726.6	70.675	412.8	31.22	18.879

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00016	.00004	.00005
SDev	.00103	.00011	.00014
%RSD	622.48	233.09	260.01

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Method: ICAPNC Sample Name: T37840-1R Operator:
Run Time: 10/18/09 01:38 Filename: R101709
Mode: CONC Type: S Corr. Factor: 100.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00302	142.35	.34464	41.675	H178.28	-.00206
SDev	.0166	.37783	.06586	.02069	.08019	.0006
%RSD	548.44	.26543	19.11	.04964	.04498	29.477

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H3007.8	L-.00433	.17877	1.7712	28.883	H1348.8
SDev	6.4099	.00989	.02433	.02068	.01209	2.6941
%RSD	.21311	228.36	13.61	1.1677	.04188	.19974

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H179.57	879.74	15.743	.72175	H24190.	.79941
SDev	.12202	1.1851	.03423	.00643	52.28	.01535
%RSD	.06795	.13471	.21745	.89158	.2161	1.9203

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.60494	1.5218	1.2444	L-.04629	.18337	.31131
SDev	.12255	.11859	.08203	.04267	.26802	.37496
%RSD	20.259	7.7932	6.5917	92.177	146.17	120.44

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.12438	-.12612	-.03421	L-.1189	H147.2	5.7907
SDev	.05838	.13216	.04995	.0681	.0918	.01911
%RSD	46.944	104.78	145.98	57.33	.0624	.33009

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.17486	.28972	H283.13
SDev	.09127	.01749	.41134
%RSD	52.198	6.0387	.14528

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Method: ICAPNC Sample Name: T37840-2R Operator:
Run Time: 10/18/09 01:44 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00004	88.483	.16174	32.951	H58.439	.00856
SDev	.00082	.1579	.00331	.10247	.10491	.00005
%RSD	1717.8	.17846	2.049	.31098	.17953	.64455

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2380.4	.00676	.13993	2.6497	5.2578	530.67
SDev	4.6504	.00059	.00014	.00382	.00976	.72174
%RSD	.19536	8.7762	.10543	.14441	.18581	.136

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H427.04	407.79	8.9375	.44636	H12950.	.71881
SDev	.73933	.51319	.01849	.00644	23.29	.00584
%RSD	.17312	.12584	.20689	1.4434	.1798	.81313

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.69391	1.1276	.98460	.01869	.13927	.14050
SDev	.01144	.00882	.00525	.01879	.00776	.00755
%RSD	1.6487	.78293	.53384	100.54	5.5752	5.3735

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.13498	-.02158	.03874	.0952	H96.56	3.1349
SDev	.01116	.00332	.02656	.0105	.2409	.00703
%RSD	8.2717	15.404	68.554	11.05	.2495	.22437

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01734	.20380	H10.077
SDev	.00572	.00214	.01636
%RSD	32.982	1.0547	.16238

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Method: ICAPNC Sample Name: T37840-2R Operator:
Run Time: 10/18/09 01:51 Filename: R101709
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00095	88.607	.17961	33.696	H62.540	.00740
SDev	.00292	.35134	.01329	.07045	.15897	.00033
%RSD	306.86	.39652	7.3999	.20908	.25419	4.5536

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2446.1	.00334	.14381	2.7489	5.2259	548.15
SDev	7.64	.0012	.00617	.00948	.01443	1.3947
%RSD	.31233	35.909	4.2913	.34499	.27619	.25443

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H401.67	422.80	9.2689	.46330	H17190.	.75073
SDev	1.7677	1.0544	.01651	.00354	33.62	.00613
%RSD	.44008	.24938	.17822	.76459	.1956	.81655

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.69417	1.1687	1.0133	.03185	.15070	.15067
SDev	.04011	.00517	.00993	.00399	.02947	.05134
%RSD	5.7786	.44269	.98087	12.541	19.558	34.077

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.14619	-.02364	.05816	.0870	H167.3	3.2592
SDev	.01448	.01567	.00169	.021	.2092	.0087
%RSD	9.9049	66.292	2.9111	24.18	.1251	.26699

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01556	.21066	H10.242
SDev	.01346	.0064	.02223
%RSD	86.477	3.0386	.21708

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Method: ICAPNC Sample Name: T37840-2R Operator:
Run Time: 10/18/09 01:57 Filename: R101709
Mode: CONC Type: S Corr. Factor: 100.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00874	85.375	.26090	33.949	H66.661	.00185
SDev	.01584	.28244	.09395	.12796	.03655	.00429
%RSD	181.25	.33083	36.011	.37692	.05483	231.07

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2445.3	.01752	.12827	2.7990	4.9080	554.29
SDev	13.75	.01226	.02065	.00506	.03709	3.4822
%RSD	.5623	69.99	16.1	.18106	.75583	.62823

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H256.40	435.13	9.6238	.50823	H25110.	.80442
SDev	1.3982	1.5203	.02817	.01488	188.6	.03264
%RSD	.54531	.34939	.29274	2.9288	.7511	4.0585

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.87972	1.0407	1.0144	L-.09807	.17521	.14378
SDev	.19037	.06793	.04774	.0947	.20669	.35814
%RSD	21.641	6.5275	4.7071	96.564	117.97	249.08

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.18492	-.10992	-.12000	.0531	H140.4	3.3821
SDev	.0995	.25376	.03746	.1749	.19	.01525
%RSD	53.81	230.86	31.224	329.5	.1353	.45098

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01084	.22114	H10.351
SDev	.06645	.07757	.03366
%RSD	612.63	35.08	.32527

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Method: ICAPNC Sample Name: T37840-3R Operator:
Run Time: 10/18/09 02:03 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00282	4.4691	.05888	6.9835	2.4377	.00239
SDev	.00169	.02554	.00322	.02139	.00501	.00007
%RSD	60.102	.57148	5.4766	.3064	.20585	3.03

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	421.68	.01156	.02097	1.7557	1.1868	223.86
SDev	.83126	.00068	.00154	.00303	.00379	.51075
%RSD	.19713	5.9061	7.3884	.17273	.31976	.22815

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	58.728	89.927	3.1492	.56601	H5628.	2.1089
SDev	.23313	.21298	.00669	.00682	13.41	.00288
%RSD	.39696	.23683	.21269	1.2057	.2382	.13692

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.11949	.30423	.24414	.00044	L-.01409	-.01016
SDev	.00296	.0051	.00429	.00287	.0064	.00854
%RSD	2.4795	1.6781	1.7596	645.63	45.424	84.067

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02439	-.00117	.00011	.0159	H29.83	.06888
SDev	.00214	.00503	.00174	.0077	.0655	.00058
%RSD	8.7782	427.41	1467.1	48.65	.2196	.84605

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00664	.12671	6.2137
SDev	.00569	.00093	.01275
%RSD	85.806	.73623	.20529

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Method: ICAPNC Sample Name: T37840-3R Operator:
Run Time: 10/18/09 02:10 Filename: R101709
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00009	4.8135	.05767	7.1410	2.5395	.00102
SDev	.0013	.03606	.00298	.03087	.00675	.00008
%RSD	1354.3	.74921	5.1689	.43242	.26596	8.741

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	425.85	.01093	.01961	1.8027	1.2135	227.72
SDev	1.5822	.00062	.00118	.00773	.0028	.76742
%RSD	.37155	5.7143	6.0397	.42929	.23104	.337

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	52.193	92.640	3.2310	.58037	H6606.	2.1741
SDev	.22681	.33099	.01273	.00868	12.9	.01011
%RSD	.43456	.35729	.39404	1.496	.1953	.46547

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.14126	.28590	.24006	-.00195	L-.01640	-.01736
SDev	.0065	.01311	.01	.0102	.00791	.0157
%RSD	4.6052	4.5887	4.1661	521.9	48.222	90.394

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01958	.01857	-.01468	.0261	H28.43	.07067
SDev	.01016	.02932	.00699	.0111	.081	.00026
%RSD	51.875	157.82	47.655	42.33	.2848	.37937

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00516	.12862	6.3430
SDev	.00351	.00289	.0272
%RSD	68.103	2.2534	.42883

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Method: ICAPNC Sample Name: T37840-4R Operator:
Run Time: 10/18/09 02:16 Filename: R101709
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00169	10.156	.01773	31.602	H75.044	-.00163
SDev	.00313	.06843	.00992	.09948	.17733	.00036
%RSD	185.62	.67385	55.973	.31479	.2363	22.267

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2378.7	.00160	.05655	.27362	1.0114	108.54
SDev	11.953	.00142	.00126	.00211	.00447	.53957
%RSD	.5025	88.528	2.2337	.77155	.44266	.49712

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H267.75	615.50	2.8055	.07342	H15610.	.21302
SDev	1.4625	2.8989	.0109	.0038	72.08	.0035
%RSD	.54623	.47098	.38877	5.1889	.4617	1.6457

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00049	.09162	.06392	.00462	.01316	.01860
SDev	.01305	.00725	.00841	.00344	.00621	.00504
%RSD	2636.4	7.9213	13.166	74.571	47.221	27.117

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00327	.00287	.00353	-.0018	H158.0	.28838
SDev	.01449	.01402	.0077	.0078	.4678	.00303
%RSD	442.08	487.68	218.13	431	.2961	1.0521

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.03165	.02696	5.6851
SDev	.02316	.00037	.02079
%RSD	73.161	1.373	.36578

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Method: ICAPNC Sample Name: T37840-4R Operator:
Run Time: 10/18/09 02:23 Filename: R101709
Mode: CONC Type: S Corr. Factor: 100.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	L-.03271	10.410	.09889	32.000	H80.205	.00114
SDev	.02876	.02655	.11949	.07677	.27344	.00074
%RSD	87.908	.25508	120.83	.23991	.34093	64.775

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2373.6	L-.00842	.05798	.23949	.92154	110.53
SDev	7.9919	.01515	.03612	.02222	.01305	.38581
%RSD	.33669	179.97	62.298	9.2809	1.4164	.34905

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H171.53	630.97	2.9121	.05774	H22290.	.18931
SDev	.47694	1.5058	.01259	.01634	14.05	.03875
%RSD	.27804	.23865	.43251	28.302	.063	20.473

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.09353	.07573	.04648	L-.21061	L-.05333	-.11120
SDev	.07324	.13179	.06888	.04719	.05154	.1082
%RSD	78.31	174.02	148.19	22.409	96.643	97.294

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00896	-.08129	-.30327	L-.0316	H121.4	.33110
SDev	.06632	.19303	.15576	.0432	.4663	.01043
%RSD	740.27	237.44	51.36	136.6	.3842	3.1504

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.04730	.05346	5.8901
SDev	.24422	.05706	.00827
%RSD	516.33	106.74	.14052

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Method: ICAPNC Sample Name: T37840-5R Operator:
Run Time: 10/18/09 02:29 Filename: R101709
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.14567	362.90	.51039	20.470	14.632	.01929
SDev	.00761	1.2283	.01437	.10127	.02147	.00001
%RSD	5.2303	.33846	2.8166	.49474	.14675	.07853

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H5890.4	.16332	.23358	1.6558	37.127	H8896.9
SDev	11.271	.00541	.00067	.01581	.07761	8.7178
%RSD	.19134	3.3178	.28747	.95517	.20904	.09798

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H424.37	H1045.0	H159.11	1.0717	H15940.	.75406
SDev	1.1438	1.9092	.20518	.00305	60.3	.01391
%RSD	.26952	.18268	.12895	.28471	.3782	1.8456

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	46.178	52.768	H50.576	L-.26859	L-.01016	.60146
SDev	.21411	.07921	.0983	.02545	.01738	.02749
%RSD	.46366	.15012	.19436	9.4779	171.15	4.5717

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-1.2247	-.76097	-.01423	.0516	H183.6	1.5885
SDev	.00289	.01948	.04002	.0296	.6958	.0033
%RSD	.23677	2.5602	281.29	57.31	.3789	.20832

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.13690	.72251	H76.529
SDev	.05632	.00208	.14901
%RSD	41.145	.2882	.19471

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Method: ICAPNC Sample Name: T37840-5R Operator:
Run Time: 10/18/09 02:36 Filename: R101709
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.15396	348.36	.51621	20.792	14.749	.01609
SDev	.01102	.97369	.04624	.17437	.02919	.00095
%RSD	7.1637	.27951	8.9577	.83864	.19793	5.9461

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H6097.0	.09009	.24882	1.7320	35.115	H9112.4
SDev	8.8533	.00471	.01177	.02462	.07694	13.943
%RSD	.1452	5.2298	4.7313	1.4219	.21913	.153

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H304.37	H1079.9	H171.02	1.0605	H21580.	.80021
SDev	1.2153	2.122	.3237	.02442	87.36	.03313
%RSD	.39929	.1965	.18927	2.3033	.4048	4.1407

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	47.957	55.015	H52.679	L-.17745	L-.01325	.58673
SDev	.09138	.26368	.15949	.04646	.04636	.07698
%RSD	.19055	.4793	.30277	26.181	349.69	13.12

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-1.2269	-.80326	.13183	.0696	H291.0	1.6542
SDev	.04174	.02372	.07081	.1157	.5456	.00696
%RSD	3.4021	2.9542	53.715	166.2	.1875	.42128

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.18269	.72145	H85.070
SDev	.00961	.02184	.16219
%RSD	5.2629	3.0284	.19066

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/18/09 02:44 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.26317	41.679	2.1013	2.1260	2.1123	2.1327
SDev	.0001	.086	.0091	.00523	.00272	.00536
%RSD	.03803	.20634	.43337	.24629	.12899	.25138

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	42.213	2.1003	2.0739	2.0858	2.0730	41.667
SDev	.06199	.0034	.00247	.0019	.00147	.06708
%RSD	.14687	.16204	.11957	.0914	.07094	.16099

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	42.275	41.849	2.0816	2.0762	41.37	2.0961
SDev	.01084	.06204	.00247	.02358	.1993	.00527
%RSD	.02564	.14826	.11878	1.1359	.4818	.25165

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0631	2.1097	2.0944	2.1005	2.0665	2.0492
SDev	.00574	.00725	.00434	.0058	.10829	.14276
%RSD	.27865	.34397	.2075	.27654	5.2405	6.9668

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.1009	2.1173	2.0920	2.018	1.939	2.0881
SDev	.03926	.00025	.00869	.0132	.0043	.00195
%RSD	1.8692	.01213	.4154	.652	.2195	.09385

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0664	2.0916	2.1073
SDev	.02176	.00294	.00377
%RSD	1.0533	.14074	.17907

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/18/09 02:56 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00009	.00267	.00100	.00395	.00001	-.00001
SDev	.00037	.0019	.00063	.00018	.00003	0
%RSD	412.14	71.134	63.674	4.7331	209.27	32.75

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00353	.00003	-.00019	-.00044	-.00084	-.00027
SDev	.00033	.00006	.0003	.00006	.0001	.0082
%RSD	9.4258	179.73	159.06	15.498	12.945	2946.2

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	-.00739	-.00019	-.00011	.00056	.0694	-.00039
SDev	.0013	.00066	.00003	.00006	.0694	.00051
%RSD	17.7	338.2	28.631	11.119	99.94	128.93

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00171	-.00164	-.00025	-.00051	.00154	.00037
SDev	.00228	.00151	.00064	.00225	.00094	.00128
%RSD	132.66	92.107	247.75	435.19	61.46	338.98

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00333	.00042	-.00126	-.0003	.0000	.00065
SDev	.00117	.00498	.00158	.0003	0	.00017
%RSD	35.254	1168.4	125.17	110.5	4.894	26.956

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00047	.00011	-.00008
SDev	.00086	.00029	.00004
%RSD	184.63	260.74	56.805

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T37840-5R Operator:
Run Time: 10/18/09 03:02 Filename: R101709
Mode: CONC Type: S Corr. Factor: 100.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.16918	353.97	.67715	21.446	15.564	.02059
SDev	.02224	.9084	.01752	.05531	.04318	.00293
%RSD	13.15	.25663	2.5881	.2579	.27746	14.267

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H6311.4	.07752	.26108	1.8063	35.593	H9409.9
SDev	48.821	.0029	.0352	.01231	.07637	58.318
%RSD	.77353	3.7432	13.485	.68197	.21458	.61974

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H278.88	H117.8	H178.59	1.1365	H22990.	.80426
SDev	.69523	6.3504	.83927	.01915	31.08	.02198
%RSD	.24929	.5681	.46994	1.6859	.1352	2.7341

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	49.829	57.389	H54.896	L-.18043	.18307	.83394
SDev	.17474	.46275	.36293	.0905	.04376	.05273
%RSD	.35069	.80634	.66112	50.158	23.907	6.3237

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-1.1581	-.66099	.04198	L-.0518	H274.9	1.7446
SDev	.12593	.25611	.08847	.1573	.2255	.00677
%RSD	10.874	38.746	210.7	303.4	.082	.38826

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.20864	.73358	H89.082
SDev	.02771	.02393	.42654
%RSD	13.284	3.2623	.47882

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/18/09 03:10 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.26023	41.238	2.0727	2.0982	2.0917	2.0980
SDev	.0013	.22376	.01013	.00436	.00517	.00719
%RSD	.50025	.5426	.48909	.20818	.24727	.34292

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	41.535	2.0659	2.0428	2.0522	2.0504	41.000
SDev	.17879	.00685	.00757	.00747	.00578	.16565
%RSD	.43045	.33161	.37094	.36402	.28204	.40402

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.957	41.135	2.0498	2.0473	40.84	2.0623
SDev	.14042	.18097	.00691	.02337	.2648	.00782
%RSD	.33469	.43994	.33757	1.1416	.6485	.37925

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0358	2.0787	2.0647	2.0835	2.0483	2.0317
SDev	.00895	.01234	.01061	.01001	.11248	.14586
%RSD	.43988	.59364	.51428	.48049	5.4915	7.1796

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0811	2.0982	2.0760	1.986	1.918	2.0626
SDev	.04587	.00499	.01264	.0124	.0052	.00889
%RSD	2.2045	.23827	.60895	.6234	.2719	.43123

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0342	2.0608	2.0772
SDev	.02366	.00646	.00819
%RSD	1.1636	.31358	.39465

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/18/09 03:22 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00018	-.00341	.00062	.00337	.00000	.00004
SDev	.00073	.00367	.00116	.00061	.00005	.00004
%RSD	394.18	107.68	184.59	18.386	544.96	99.15

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00535	.00021	-.00005	-.00004	-.00109	-.00378
SDev	.00136	.00023	.00015	.00051	.00013	.00485
%RSD	25.581	108.94	289.03	1044.1	12.727	128.35

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01350	-.00075	-.00005	.00035	.0714	.00008
SDev	.01316	.00238	.00007	.00028	.043	.0004
%RSD	97.524	317.81	126.65	80.171	60.19	491.41

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00169	-.00188	-.00042	-.00040	.00184	.00112
SDev	.00173	.00194	.00115	.00063	.00108	.00175
%RSD	102.15	102.92	270.94	156.1	58.668	155.33

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00275	.00115	-.00147	.0010	.0000	.00030
SDev	.00135	.00159	.00064	.0016	0	0
%RSD	48.996	137.92	43.664	163.8	60.84	.90528

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00050	-.00006	-.00009
SDev	.00329	.00019	.00006
%RSD	654.01	325.61	67.634

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-MB1 Operator:
Run Time: 10/18/09 03:29 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00004	-.00664	.00036	.00259	.00003	.00005
SDev	.00019	.00157	.00054	.00053	.00006	.00002
%RSD	447.62	23.707	146.73	20.508	174.85	45.432

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00600	.00003	.00010	-.00036	-.00094	-.00194
SDev	.00023	.00013	.0002	.00015	.00017	.0028
%RSD	3.987	391.47	203.31	43.054	18.47	143.99

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01309	.00084	-.00008	.00007	.0593	-.00029
SDev	.00273	.00148	.00004	.0005	.0624	.00015
%RSD	20.892	175.62	49.408	653.31	105.2	53.726

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00081	-.00066	.00009	-.00090	.00174	.00166
SDev	.00058	.00218	.0016	.00213	.00044	.00045
%RSD	71.341	326.85	1699.9	235.63	25.629	27.373

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00135	-.00047	-.00141	-.0001	.0000	.00018
SDev	.00069	.00416	.00129	.0005	0	.0001
%RSD	51.302	884.45	91.476	461.1	40.06	55.222

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00064	.00032	-.00007
SDev	.0011	.00009	.00005
%RSD	170.88	29.95	66.905

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-B1 Operator:
Run Time: 10/18/09 03:35 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.40369	52.993	.42202	1.0604	.42165	.42909
SDev	.00115	.1639	.00254	.00479	.00101	.00203
%RSD	.28556	.30929	.60339	.45231	.24042	.47383

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	52.435	.41107	.40482	.40697	.41198	51.480
SDev	.28572	.00208	.00181	.00232	.00073	.25463
%RSD	.54491	.50804	.44898	.57134	.17825	.49461

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	51.903	52.201	.42325	.41915	51.60	.41226
SDev	.12978	.24469	.00185	.00337	.3116	.00212
%RSD	.25005	.46876	.43858	.80573	.6039	.51513

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.37451	.42940	.41139	.42818	.41617	.41742
SDev	.00232	.00225	.00211	.00337	.01452	.01781
%RSD	.62128	.52422	.51312	.78862	3.4893	4.2681

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.41326	.42826	.42796	.4016	.3521	.43566
SDev	.00813	.0044	.00322	.0035	.0009	.00191
%RSD	1.9681	1.0292	.75324	.8635	.2684	.43886

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.39470	.41479	.42775
SDev	.01782	.00154	.00186
%RSD	4.5167	.37129	.43593

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Method: ICAPNC Sample Name: T39513-1 Operator:
Run Time: 10/18/09 03:42 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00065	1.9816	.05526	1.7591	.23320	-.00016
SDev	.00034	.00376	.0006	.00174	.00014	.00001
%RSD	53.108	.19012	1.0973	.09896	.06352	6.724

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	454.07	.00111	.00363	.00536	.00474	25.407
SDev	2.7834	.00041	.00052	.00141	.00008	.13375
%RSD	.61298	37.269	14.573	26.329	1.7204	.52642

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H220.81	H1847.1	.30617	.02983	H3308.	.01329
SDev	.52092	9.4883	.00085	.00048	.2864	.00065
%RSD	.23591	.51367	.28005	1.6381	.0087	4.916

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.01187	.01498	.00635	.00287	.01444	.02029
SDev	.00118	.00049	.00024	.00191	.00291	.00426
%RSD	9.9406	3.3243	3.8132	66.72	20.147	21.026

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00339	-.00704	.00834	.0062	H16.84	.04977
SDev	.0039	.00131	.00337	.0008	.022	.0002
%RSD	114.96	18.681	40.45	12.09	.1307	.40229

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00693	.00713	.00626
SDev	.00373	.00057	.00005
%RSD	53.887	8.0249	.84585

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Method: ICAPNC Sample Name: MP10445-D1 Operator:
Run Time: 10/18/09 03:48 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00063	1.6819	.04788	1.6606	.17686	-.00011
SDev	.00049	.00438	.00101	.0006	.00015	0
%RSD	77.854	.26089	2.1102	.03627	.0849	6.0299

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	435.02	.00092	.00370	.00504	.00307	23.938
SDev	.20169	.00014	.00032	.00081	.00017	.03186
%RSD	.04636	16.122	8.9024	16.153	5.7586	.13313

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H206.13	H1785.2	.29269	.02744	H3211.	.01164
SDev	.16864	2.1467	.00036	.00076	1.323	.00087
%RSD	.08181	.12024	.12505	2.7725	.0412	7.4836

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.01328	.01505	.00591	.00140	.01128	.01771
SDev	.00133	.00185	.00148	.00164	.00167	.00261
%RSD	10.056	12.304	25.14	117.01	14.804	14.792

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00097	-.01122	.00821	.0045	H15.89	.04325
SDev	.00097	.00346	.00148	.0016	.0082	.00107
%RSD	99.785	30.851	18.078	36.58	.0515	2.4934

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00592	.00654	.00576
SDev	.00125	.00049	.00017
%RSD	21.153	7.5538	2.9918

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-SD1 Operator:
Run Time: 10/18/09 03:55 Filename: R101709
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00041	1.8896	.05207	1.6962	.23347	-.00060
SDev	.00104	.02262	.00381	.00834	.00043	.00007
%RSD	251.99	1.1974	7.3315	.49178	.18705	12.534

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	465.04	.00053	.00418	.00333	.00382	25.952
SDev	.4483	.00046	.00132	.00197	.00089	.04516
%RSD	.0964	86.546	31.736	59.323	23.457	.17403

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H177.53	H2148.3	.31179	.03013	H5865.	.01420
SDev	.35927	2.4178	.00021	.00452	4.622	.00065
%RSD	.20237	.11254	.07022	15.029	.0788	4.5822

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.01314	.01879	.00966	-.00359	.01154	.01655
SDev	.00909	.0104	.00936	.00197	.00665	.00949
%RSD	69.152	55.354	96.909	54.85	57.654	57.342

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00001	-.01411	.00107	-.0049	H12.86	.05221
SDev	.00743	.0055	.0048	.0096	.0226	.00155
%RSD	48098	39.027	446.73	196	.1759	2.9742

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01208	.00813	.01794
SDev	.0049	.00138	.00038
%RSD	40.586	16.996	2.1587

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-S1 Operator:
Run Time: 10/18/09 04:01 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.19560	61.907	.53325	2.8057	.58021	.39762
SDev	.00111	.09261	.00041	.00815	.00101	.00057
%RSD	.56853	.1496	.07836	.2908	.17515	.1441

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	484.83	.39295	.39354	.39750	.49194	73.583
SDev	1.3427	.00069	.00101	.00191	.00167	.17981
%RSD	.27694	.17661	.25785	.48093	.34138	.24436

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H291.01	H1818.3	.71227	.46825	H3255.	.39524
SDev	1.9163	3.817	.00101	.00509	8.661	.00107
%RSD	.65847	.20992	.14266	1.0873	.2661	.27105

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.35753	.43070	.40667	.56209	.47605	.48238
SDev	.00218	.00418	.00234	.00216	.01206	.01535
%RSD	.61227	.97125	.57715	.38575	2.5346	3.184

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.46407	.55184	.56777	.4305	H16.69	.47344
SDev	.00549	.00194	.00413	.0004	.007	.00082
%RSD	1.1849	.35178	.72744	.1042	.0419	.17438

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.37920	.42197	.49187
SDev	.01914	.00024	.0005
%RSD	5.048	.05707	.10185

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-S2 Operator:
Run Time: 10/18/09 04:08 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.18752	53.401	.47061	2.5014	.51395	.35060
SDev	.00025	.12293	.00253	.00583	.0009	.00139
%RSD	.13492	.23021	.53794	.2332	.17624	.39927

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	427.72	.35511	.34736	.35016	.42663	64.932
SDev	2.2496	.00128	.00121	.00136	.00127	.29789
%RSD	.52595	.36261	.35099	.39081	.29783	.45879

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H251.11	H1627.6	.62645	.41420	H3034.	.35106
SDev	1.383	8.0528	.0024	.00497	9.976	.00092
%RSD	.55076	.49477	.38328	1.2015	.3288	.26314

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.32041	.38647	.36474	.49667	.42072	.42717
SDev	.0016	.0053	.00339	.00145	.00984	.01316
%RSD	.49944	1.3722	.92963	.29382	2.3408	3.0821

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.40841	.48978	.50059	.3834	H14.34	.41519
SDev	.00407	.00583	.00161	.0031	.0195	.00156
%RSD	.99887	1.1922	.32163	.8187	.1357	.37744

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.34813	.37205	.43064
SDev	.01513	.00075	.00143
%RSD	4.3484	.20383	.33384

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39209-1 Operator:
Run Time: 10/18/09 04:14 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00016	.01531	L-.00547	.07989	.03555	-.00005
SDev	.00012	.0032	.0005	.00131	.00004	.00001
%RSD	74.864	20.893	9.2084	1.6472	.12447	25.308

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	83.377	-.00013	.00000	13.962	.00371	.01951
SDev	.06953	.00002	.00014	.0128	.00017	.00353
%RSD	.08339	20.187	1701.6	.09171	4.6793	18.092

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.61475	62.946	.00513	.00270	H547.1	.00090
SDev	.00301	.04885	.00012	.00048	1.223	.0003
%RSD	.48997	.07761	2.5292	18.128	.2236	33.698

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00062	-.00110	-.00024	-.00007	.00133	-.00186
SDev	.00143	.00121	.00102	.00064	.00207	.00254
%RSD	229.29	110.18	410.91	832.16	155.01	136.75

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00723	.00022	-.00046	-.0016	.8337	.00020
SDev	.0015	.00297	.0014	.0008	.0013	.00027
%RSD	20.861	1306.6	302.85	50.27	.1612	138.15

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00081	.00487	-.00772
SDev	.00285	.00009	.00009
%RSD	349.71	2.0487	1.2897

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Method: ICAPNC Sample Name: T39209-2 Operator:
Run Time: 10/18/09 04:21 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00005	.04521	.00115	.12732	.01403	-.00003
SDev	.00015	.00016	.00108	.00135	.00001	.00002
%RSD	276.31	.35888	93.816	1.0647	.10524	63.503

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	28.230	-.00001	.00008	.00029	.00066	.02050
SDev	.04427	.00018	.00002	.00014	.00011	.00545
%RSD	.15683	1300.4	35.103	49.312	17.807	26.598

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.37506	19.117	.01534	.00472	197.0	.00054
SDev	.00559	.01756	.00004	.00064	.1652	.00051
%RSD	1.4922	.0919	.30584	13.628	.0839	95.687

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00215	-.00040	.00069	-.00051	.00267	.00318
SDev	.00098	.00073	.00079	.00066	.00136	.00148
%RSD	46.02	182.74	113.66	127.31	51.199	46.518

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00111	-.00519	.00153	-.0002	.2567	.00084
SDev	.00154	.00343	.00109	.0007	.0003	.00027
%RSD	138.39	66.028	70.885	287.9	.1341	32.316

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00399	.00228	.00453
SDev	.00075	.00016	.0001
%RSD	18.842	7.1099	2.3861

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Method: ICAPNC Sample Name: T39209-3 Operator:
Run Time: 10/18/09 04:27 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00017	.01936	.00017	.15604	.01986	-.00008
SDev	.00055	.00239	.00113	.00158	.00003	.00001
%RSD	316.43	12.378	630.1	1.0159	.15332	12.261

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	72.024	-.00016	.00005	-.00007	.00025	-.00860
SDev	.20904	.00017	.00018	.00043	.00008	.00498
%RSD	.29024	107.76	333.9	549.91	32.731	57.92

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.27974	53.620	.01443	.00159	H396.7	.00053
SDev	.00604	.12064	.00006	.00032	.8059	.00033
%RSD	2.1606	.22499	.47335	20.246	.2031	62.555

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00190	-.00063	.00047	.00013	.00167	.00146
SDev	.0008	.00069	.00019	.00109	.00165	.00181
%RSD	41.98	108.78	40.919	787.61	99.01	123.89

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00156	-.00412	.00201	.0004	.7133	.00038
SDev	.00133	.00208	.00153	.0021	.0005	0
%RSD	84.923	50.515	75.827	489.7	.0703	1.0255

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00460	.00395	.00155
SDev	.00108	.00014	.00008
%RSD	23.664	3.7208	5.1889

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/18/09 04:35 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.26229	41.418	2.0885	2.1011	2.1002	2.1225
SDev	.0004	.14653	.00831	.00256	.00026	.00212
%RSD	.15288	.35379	.39801	.12214	.01261	.10011

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	42.093	2.0901	2.0667	2.0754	2.0601	41.547
SDev	.06212	.00244	.00237	.00221	.00263	.05831
%RSD	.14758	.11681	.11512	.10649	.12784	.14035

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.988	41.577	2.0727	2.0723	41.03	2.0806
SDev	.05561	.03939	.00221	.02186	.2206	.00121
%RSD	.13246	.09474	.10695	1.0553	.5378	.05832

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	2.0560	2.1053	2.0890	2.0882	2.0693	2.0567
SDev	.00465	.01079	.00569	.00411	.11018	.14241
%RSD	.22627	.51283	.2725	.19686	5.3246	6.9248

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0942	2.0955	2.0843	2.022	1.931	2.0807
SDev	.04603	.00398	.00676	.0116	.0005	.00431
%RSD	2.1984	.18995	.32462	.5754	.0267	.20739

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	2.0541	2.0793	2.1042
SDev	.0224	.00268	.00087
%RSD	1.0907	.12901	.04143

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/18/09 04:49 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00011	.00301	.00127	.00324	.00004	.00002
SDev	.00027	.00105	.00049	.00039	.00002	.00001
%RSD	239.71	35	38.963	12.302	51.569	57.089

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.00364	.00002	.00003	-.00048	-.00077	-.00418
SDev	.00091	.00006	.0004	.00026	.00003	.00622
%RSD	25.138	257.03	1332.5	43.059	4.6325	148.89

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	-.01253	.00209	-.00010	.00046	.0369	-.00027
SDev	.0028	.00251	.00001	.00026	.0127	.00038
%RSD	22.351	119.93	10.511	57.546	34.5	138.54

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00077	-.00054	.00014	-.00084	.00196	.00083
SDev	.00097	.00094	.00031	.00089	.00045	.00027
%RSD	124.58	173.77	213.38	105.26	23.223	33.188

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00370	-.00034	-.00136	-.0011	.0001	.00047
SDev	.00088	.0022	.00107	.0008	0	.00017
%RSD	23.787	642.39	78.757	74.87	20.49	36.964

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00137	.00026	-.00014
SDev	.00075	.00024	.00009
%RSD	54.663	93.273	66.038

Zoom In
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Analysis Report Averages 10/26/09 08:46:17 AM page 157

Method: ICAPNC Sample Name: T39209-4 Operator:
Run Time: 10/18/09 04:55 Filename: R101709
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00039	.02407	L-.05229	.10859	.03842	-.00034
SDev	.00024	.00124	.00073	.00016	.00002	.00004
%RSD	62.133	5.1873	1.397	.15261	.05711	11.769

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	64.719	-.00014	.00089	H73.909	.00118	.08531
SDev	.25873	.00006	.00018	.29645	.00017	.00366
%RSD	.39978	45.688	20.616	.4011	15.06	4.2984

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.30165	50.361	-.00526	-.00127	H379.3	-.00007
SDev	.00596	.15751	.00057	.00032	1.689	.00006
%RSD	1.976	.31276	10.972	25.565	.4453	97.958

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00314	-.00226	-.00018	.00003	.00033	-.01545
SDev	.00205	.00102	.00026	.00234	.00423	.00789
%RSD	65.171	45.224	137.97	6978.5	1272.8	51.113

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.03143	.00718	-.00377	-.0033	.6569	-.00148
SDev	.00325	.00239	.00234	.001	.0009	.00008
%RSD	10.367	33.411	62.062	30.33	.1339	5.6052

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00198	.00568	L-.04573
SDev	.00288	.00012	.00023
%RSD	145.29	2.1955	.50891

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Zoom In ▶
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Method: ICAPNC Sample Name: STDA Operator:
Run Time: 10/19/09 09:50 Filename: R101909
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	count	count	count	count	count	count
Avge	-.00048	.0195	.0004	.02714	.00079	-.00747
SDev	.00021	.00007	.00089	.00044	.00003	.00003
%RSD	43.6803	.37072	219.846	1.65619	4.98125	.49122

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	count	count	count	count	count	count
Avge	.021	-.00045	-.00035	.00031	.02075	-.00046
SDev	.00005	.00074	.00018	.00007	.00041	.00014
%RSD	.24392	162.66	52.7138	23.1051	1.99388	30.7953

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	count	count	count	count	count	count
Avge	.00441	.00115	.00136	.00033	.00001	.02026
SDev	.00002	.00022	.00002	.00034	.00016	.00028
%RSD	.52182	19.7836	2.08657	100.455	1041.71	1.41786

Elems	2203-1	2203-2	2068-1	2068-2	1960-1	1960-2
Units	count	count	count	count	count	count
Avge	.00668	.00004	-.00022	.00046	-.0039	.00341
SDev	.00249	.00128	.00115	.0007	.00038	.00047
%RSD	37.2725	3169.77	520.146	150.628	9.9011	13.9132

Elems	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2138
Units	count	count	count	count	count	count
Avge	.00146	.08359	-.00008	-.00418	-.00001	.00008
SDev	.00464	.00117	.00001	.00059	.00003	.00007
%RSD	316.632	1.40836	16.2953	14.3244	227.083	87.7446

◀ Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 2

Method: ICAPNC Sample Name: STDC Operator:
Run Time: 10/19/09 09:57 Filename: R101909
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	2068-1	2068-2
Units	count	count	count
Avge	.64007	3.7377	3.34762
SDev	.00192	.28403	.08218
%RSD	.30027	7.59909	2.45496

Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 3

Method: ICAPNC Sample Name: STDE Operator:
Run Time: 10/19/09 10:02 Filename: R101909
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Units	count	count	count	count	count	count
Avge	2.99773	5.68609	1.82048	.23286	6.82105	.327
SDev	.02056	.02342	.01161	.00076	.03783	.00168
%RSD	.68609	.41188	.63811	.32946	.55463	.51461

◀ Zoom In ▶
Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 4

Method: ICAPNC Sample Name: STDB Operator:
Run Time: 10/19/09 10:07 Filename: R101909
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	As1890	B_2496	Ba4934	Be3130	Cd2265	Co2286
Units	count	count	count	count	count	count
Avge	2.53679	3.39823	4.18214	10.2459	17.5853	3.39821
SDev	.00944	.02284	.02278	.06368	.1018	.02279
%RSD	.3722	.67236	.54489	.6216	.5789	.67093

Elems	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	2203-1
Units	count	count	count	count	count	count
Avge	1.56487	11.134	15.5608	1.77384	6.60359	5.64251
SDev	.01093	.07153	.10849	.02342	.03572	.03039
%RSD	.69855	.64249	.69723	1.32036	.54102	.53869

Elems	2203-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units	count	count	count	count	count	count
Avge	7.4128	1.49781	1.84174	10.1377	270.626	.53106
SDev	.07026	.0073	.01206	.07207	1.34086	.00313
%RSD	.9479	.48784	.6553	.71092	.49546	.58963

Elems	Tl1908	Zn2138
Units	count	count
Avge	1.43441	3.68824
SDev	.00958	.02208
%RSD	.66816	.59883

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 5

Method: ICAPNC Sample Name: STDD Operator:
Run Time: 10/19/09 10:14 Filename: R101909
Mode: IR Type: X Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	V_2924
Units	count
Avge	1.43148
SDev	.05097
%RSD	3.56098

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 6

Method: ICAPNC Sample Name: HSTD Operator:
Run Time: 10/19/09 11:19 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.49992	80.172	4.0141	3.9925	3.9883	3.9169
SDev	.00185	.21221	.01458	.0204	.01912	.01889
%RSD	.37114	.2647	.36342	.51101	.47952	.48248

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	80.409	3.8729	3.8877	3.8852	4.0349	80.006
SDev	.32175	.01741	.01638	.01587	.01758	.34033
%RSD	.40015	.4496	.42138	.40861	.4359	.42538

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	79.132	80.236	3.9008	3.9846	80.15	3.8949
SDev	.33574	.35137	.01737	.01614	.2021	.01684
%RSD	.42428	.43792	.44532	.40511	.2521	.43253

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	3.8493	3.9534	3.9190	4.0423	4.1861	4.2251
SDev	.01855	.01108	.01303	.01417	.07092	.09825
%RSD	.48215	.28036	.33261	.35057	1.6944	2.3254

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	4.1077	4.0354	4.0456	3.900	3.953	3.9428
SDev	.01882	.02017	.01298	.0118	.0181	.01502
%RSD	.45835	.49986	.3209	.3013	.4587	.38094

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	4.0313	3.9745	3.9001
SDev	.06781	.01488	.0187
%RSD	1.6822	.37453	.47972

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Method: ICAPNC Sample Name: ICV Operator:
Run Time: 10/19/09 11:26 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.50387	4.9977	1.0016	.99165	1.0090	1.0118
SDev	.00294	.02853	.00253	.00632	.00552	.00444
%RSD	.58391	.571	.25277	.63799	.54737	.43918

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.9607	1.0021	.99195	.99125	.99127	4.9788
SDev	.02442	.00393	.00481	.00439	.00552	.01753
%RSD	.4924	.39317	.485	.44379	.55687	.35218

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	4.9803	4.9494	.99419	1.0115	5.021	1.0008
SDev	.03693	.02262	.00439	.00722	.0289	.00537
%RSD	.74171	.45714	.44201	.71445	.5747	.53698

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.98971	1.0007	.99730	1.0105	1.0419	1.0484
SDev	.00481	.00538	.0051	.00045	.03361	.04447
%RSD	.48606	.53822	.51212	.04546	3.2266	4.242

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.0284	1.0120	1.0095	.9970	L.9030	1.0079
SDev	.01202	.00135	.00129	.0065	.0047	.00491
%RSD	1.1688	.13399	.12806	.652	.5221	.48773

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.99311	1.0146	1.0310
SDev	.00832	.00431	.00489
%RSD	.83821	.42521	.47435

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Method: ICAPNC Sample Name: ICB Operator:
Run Time: 10/19/09 11:42 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00013	.00668	-.00066	.00340	.00002	.00004
SDev	.00035	.00127	.00084	.00067	.00003	.00001
%RSD	262.28	19.152	127.27	19.788	173.87	37.071

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.02218	.00006	.00040	-.00034	.00002	.00426
SDev	.00154	.00011	.00026	.00029	.00022	.00052
%RSD	6.9613	183.64	65.17	85.936	1093.5	12.279

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02887	.00157	-.00004	.00099	-.0012	.00014
SDev	.00017	.00102	.00002	.00024	.0398	.00043
%RSD	.61484	64.692	48.987	24.641	3299	291.98

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00014	-.00056	-.00017	-.00082	.00410	.00404
SDev	.00072	.00081	.00074	.00171	.00081	.00136
%RSD	497.17	145.53	430.4	207.1	19.738	33.739

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00368	-.00165	-.00069	-.0015	.0001	.00022
SDev	.00072	.00158	.00228	.001	0	.0001
%RSD	19.725	95.676	327.62	67.93	16.62	43.92

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00040	.00028	-.00010
SDev	.00252	.00022	.00003
%RSD	629.42	79.679	36.117

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Method: ICAPNC Sample Name: CRI Operator:
Run Time: 10/19/09 11:49 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01021	.21631	.00415	.11060	.21603	.00506
SDev	.00014	.00612	.0007	.0003	.00036	.00003
%RSD	1.4076	2.8322	16.888	.27436	.16733	.60943

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	5.0611	.00408	.05085	.00978	.02611	.10405
SDev	.00534	.0001	.00034	.00021	.00019	.00302
%RSD	.10554	2.6507	.67436	2.1919	.75189	2.9043

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	5.0874	5.1241	.01574	.01124	5.062	.04047
SDev	.01987	.00874	.00006	.00016	.0304	.00017
%RSD	.39069	.17071	.43814	1.4489	.6003	.43057

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00273	.00253	.00282	.00433	H.00979	.00972
SDev	.00065	.00141	.00097	.0002	.00166	.00281
%RSD	24.053	56.051	34.578	4.6243	17.031	28.97

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00941	.00371	.00437	.0193	.0181	.02109
SDev	.00064	.00266	.00104	.0009	0	.00016
%RSD	6.8082	71.722	23.925	4.483	.1043	.76566

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00902	.05091	.02981
SDev	.00059	.00034	.00007
%RSD	6.564	.67243	.2446

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Analysis Report Averages 10/26/09 08:41:17 AM page 10

Method: ICAPNC Sample Name: ICSA Operator:
Run Time: 10/19/09 11:55 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00341	505.67	-.00026	-.05693	.00194	-.00018
SDev	.00045	2.4324	.00186	.00223	.00004	.00001
%RSD	13.431	.48101	713.11	3.9302	2.0791	8.5512

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	519.71	-.00021	-.00098	.00696	-.00457	199.70
SDev	2.8506	.00023	.00016	.00078	.00006	.7459
%RSD	.5485	106.59	17.139	11.321	1.4893	.3735

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.82304	523.78	-.00010	.01924	.0618	.00080
SDev	.01112	1.8142	.00097	.0002	.0724	.00028
%RSD	1.3511	.34637	904.18	1.0622	117	35.021

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.21946	.10266	-.00430	-.00086	.00597	.02149
SDev	.00082	.00149	.00075	.00262	.00144	.00277
%RSD	.37416	1.4603	17.458	302.45	24.107	12.912

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.02496	-.02153	.00970	-.0073	.0003	.00238
SDev	.00124	.00601	.00657	.0077	0	.00011
%RSD	4.9759	27.916	67.756	104.6	1.694	4.9239

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00806	-.00106	-.00160
SDev	.00644	.00021	.00005
%RSD	79.937	20.266	3.5792

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Analysis Report Averages 10/26/09 08:41:17 AM page 11

Method: ICAPNC Sample Name: ICSAB Operator:
Run Time: 10/19/09 12:02 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	1.0595	504.64	.52299	-.06013	.53125	.49173
SDev	.00321	1.7659	.0008	.00143	.00127	.0014
%RSD	.30364	.34992	.15456	2.3879	.24061	.28504

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	508.46	.93547	.48409	.48880	.53595	198.37
SDev	1.8224	.00251	.00062	.00194	.00151	.62845
%RSD	.35841	.2685	.12942	.39875	.28318	.31681

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.77943	516.15	.49896	.52244	.0878	.90057
SDev	.00988	1.65	.00191	.00591	.0533	.0018
%RSD	1.2686	.31967	.38379	1.1313	60.69	.20084

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.26253	.59792	.48653	.51345	1.0346	1.0570
SDev	.0044	.00141	.00218	.00452	.04348	.05322
%RSD	1.6773	.23603	.45	.88093	4.2026	5.0357

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.99005	.50041	.52020	-.0088	.0004	.00221
SDev	.02461	.00617	.00385	.0093	0	.0001
%RSD	2.4859	1.2345	.74079	105.8	3.478	4.5442

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.47146	.50098	1.0478
SDev	.02471	.00119	.0027
%RSD	5.2413	.23948	.25825

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Analysis Report Averages 10/26/09 08:41:17 AM page 12

Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/19/09 12:10 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.24841	39.708	1.9981	2.0001	2.0004	1.9943
SDev	.0011	.29364	.00701	.00623	.00782	.00633
%RSD	.44505	.73952	.3509	.31183	.39112	.3178

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.034	1.9610	1.9530	1.9580	1.9811	39.863
SDev	.17697	.0068	.0076	.00783	.01075	.17453
%RSD	.44206	.3469	.38943	.40036	.54296	.43784

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	40.452	39.775	1.9587	1.9824	39.24	1.9576
SDev	.24674	.17162	.008	.02143	.3176	.00741
%RSD	.60996	.43148	.40861	1.0812	.8095	.37887

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9287	1.9965	1.9742	2.0241	2.0302	2.0426
SDev	.00373	.00398	.00305	.00506	.09335	.12071
%RSD	.1934	.19982	.15496	.25028	4.5983	5.9101

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0049	2.0111	2.0303	1.954	1.832	1.9738
SDev	.0386	.00228	.00822	.0049	.0074	.0087
%RSD	1.9253	.11372	.40524	.2519	.4065	.44083

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9525	1.9933	2.0137
SDev	.04206	.00742	.00697
%RSD	2.1544	.37254	.34643

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/19/09 12:23 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00007	.00192	-.00068	.00258	.00002	.00008
SDev	.00021	.00213	.00022	.00026	.00002	.00001
%RSD	297.43	110.88	33.325	10.329	122.63	15.479

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.02314	.00000	.00020	-.00061	.00010	.00400
SDev	.00086	.00008	.00014	.00038	.00017	.00289
%RSD	3.7361	52747	71.768	61.804	164.73	72.24

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02945	.00174	.00000	.00096	-.0359	-.00018
SDev	.01149	.0019	.00003	.00024	.0236	.00041
%RSD	39.026	109.04	613.82	25.267	65.78	229.05

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00037	-.00044	-.00018	.00091	.00430	.00420
SDev	.0002	.00089	.00058	.00169	.0011	.00182
%RSD	54.605	198.58	317.58	185.04	25.621	43.298

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00396	.00097	.00059	-.0019	.0001	.00022
SDev	.00075	.00261	.00189	.0008	0	.00009
%RSD	19.146	268.83	318.79	45.27	10.35	41.83

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00055	.00019	-.00010
SDev	.00122	.00022	.00002
%RSD	220.55	113.62	28.996

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Method: ICAPNC Sample Name: T39524-1 Operator:
Run Time: 10/19/09 12:30 Filename: R101909
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00197	1.9424	.00591	.11788	.15304	.00024
SDev	.00162	.00714	.00137	.00482	.00015	.0001
%RSD	82.304	.36761	23.276	4.0947	.10308	42.045

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	130.65	.00049	.03317	.01934	.27916	4.7386
SDev	.26081	.00041	.00151	.00095	.00107	.02233
%RSD	.19962	84.242	4.5784	4.936	.38419	.47127

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H296.67	38.108	1.7984	.01455	H347.5	.01413
SDev	.99077	.10433	.00172	.00094	.436	.00183
%RSD	.33396	.27378	.09611	6.4784	.1255	13.005

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00110	.00095	.00137	.01002	.02398	.02829
SDev	.00604	.0069	.00369	.00634	.00467	.00861
%RSD	547.42	723.03	269.48	63.234	19.499	30.45

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.01264	.00296	.01225	.0059	.5596	.21541
SDev	.00569	.00524	.00756	.006	.0005	.00058
%RSD	45.074	176.99	61.682	100.7	.0919	.27342

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.01594	.04417	1.4561
SDev	.00621	.001	.00144
%RSD	38.954	2.2643	.09949

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Method: ICAPNC Sample Name: T37840-1R Operator:
Run Time: 10/19/09 12:36 Filename: R101909
Mode: CONC Type: S Corr. Factor: 200.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.07023	143.98	.14378	40.667	H154.85	.02125
SDev	.00357	.85851	.26333	.41244	.36132	.0064
%RSD	5.085	.59625	183.14	1.0142	.23333	30.124

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2990.7	.01303	.13800	1.7656	28.975	H1363.4
SDev	15.924	.02524	.01382	.03232	.09875	6.6866
%RSD	.53244	193.69	10.016	1.8307	.34084	.49043

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H174.89	888.56	15.561	.69718	H24360.	.90688
SDev	1.7735	2.9816	.06705	.09899	147.8	.0201
%RSD	1.014	.33555	.4309	14.199	.6069	2.2166

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.24152	1.6546	1.2330	.05025	.52638	.81278
SDev	.34343	.24014	.21961	.07525	.15457	.26124
%RSD	142.19	14.514	17.811	149.73	29.365	32.142

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.15457	-.25556	.14837	.0880	H141.7	5.6894
SDev	.0699	.30141	.09548	.2187	.3596	.02364
%RSD	45.223	117.94	64.352	248.5	.2538	.41564

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.03135	.26259	H295.39
SDev	.31708	.07025	1.1096
%RSD	1011.4	26.753	.37562

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Method: ICAPNC Sample Name: T37840-2R Operator:
Run Time: 10/19/09 12:43 Filename: R101909
Mode: CONC Type: S Corr. Factor: 200.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00219	83.804	L-.06362	30.685	H42.033	.00893
SDev	.05196	1.5304	.0812	.19857	.17022	.00523
%RSD	2365.1	1.8262	127.62	.64715	.40499	58.6

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2296.5	.00670	.18030	2.5820	4.7160	532.88
SDev	8.8354	.01832	.04711	.0309	.04447	3.2835
%RSD	.38473	273.34	26.133	1.1968	.9431	.61617

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H225.10	416.59	8.9977	.53759	H24560.	.67327
SDev	1.5578	2.5892	.04069	.06184	105.6	.11267
%RSD	.69204	.62151	.45223	11.505	.4301	16.735

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.66124	.84609	.83017	L-.01730	.53835	.39644
SDev	.17085	.38902	.21644	.26417	.13542	.16313
%RSD	25.839	45.979	26.073	1526.9	25.155	41.149

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.71419	-.43562	.13610	L-.0404	H127.6	3.1484
SDev	.08785	.73633	.40303	.2156	.5832	.06067
%RSD	12.302	169.03	296.13	533	.457	1.9272

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.12798	.20521	H10.145
SDev	.65428	.01508	.05125
%RSD	511.23	7.3521	.50518

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Method: ICAPNC Sample Name: T37840-3R Operator:
Run Time: 10/19/09 12:49 Filename: R101909
Mode: CONC Type: S Corr. Factor: 100.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.02354	5.0514	L-.14748	6.4994	2.3308	.00735
SDev	.02998	.28007	.1201	.06861	.00667	.00203
%RSD	127.34	5.5444	81.436	1.0557	.2865	27.604

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	396.37	.01150	.04236	1.6177	1.1008	212.47
SDev	2.0915	.0005	.03578	.01932	.01852	1.8184
%RSD	.52766	4.3834	84.474	1.1948	1.6825	.85582

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	35.237	88.212	3.0204	.56186	H6385.	2.3728
SDev	.90879	.68491	.01242	.05979	55.19	.07776
%RSD	2.5791	.77644	.41142	10.642	.8644	3.2773

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.09491	.10645	.12545	L-.09153	.18112	.21874
SDev	.18572	.07763	.0802	.06254	.02613	.02478
%RSD	195.67	72.935	63.929	68.328	14.429	11.332

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.05130	-.11535	-.10664	L-.1108	H24.25	.07193
SDev	.03101	.1892	.15249	.0334	.0518	.01986
%RSD	60.452	164.02	143	30.14	.2138	27.61

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00170	.10895	6.0848
SDev	.05215	.01132	.01957
%RSD	3062.7	10.39	.32165

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Method: ICAPNC Sample Name: T37840-4R Operator:
Run Time: 10/19/09 12:56 Filename: R101909
Mode: CONC Type: S Corr. Factor: 200.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01025	11.899	L-.07923	28.751	H74.609	-.00269
SDev	.02231	.38376	.16535	.04199	.08612	.00207
%RSD	217.65	3.2251	208.69	.14604	.11542	77.049

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H2177.2	-.00175	.05836	.19012	.94068	104.26
SDev	1.9672	.01614	.07174	.05997	.06412	.75236
%RSD	.09035	921.45	122.92	31.547	6.8164	.72163

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H150.00	590.67	2.6806	.09674	H21080.	.16164
SDev	.18572	.5078	.00536	.10555	69.32	.03925
%RSD	.12381	.08597	.2003	109.1	.3289	24.283

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00392	.22798	.19656	.02424	.35807	.44400
SDev	.42758	.13259	.15315	.27304	.24926	.39552
%RSD	10899	58.161	77.913	1126.4	69.614	89.08

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.07648	-.17508	.06996	L-.0687	H110.7	.26030
SDev	.07445	.50039	.18262	.2716	.1393	.07179
%RSD	97.338	285.8	261.01	395.4	.1259	27.582

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.37259	.05658	5.8029
SDev	.15841	.03895	.00484
%RSD	42.516	68.85	.08343

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Method: ICAPNC Sample Name: T37840-5R Operator:
Run Time: 10/19/09 13:02 Filename: R101909
Mode: CONC Type: S Corr. Factor: 200.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.16711	356.83	.41716	20.849	12.516	.02749
SDev	.05103	.78691	.16051	.04492	.03726	.0034
%RSD	30.54	.22053	38.478	.21546	.29769	12.396

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H6157.5	.11278	.26566	1.7123	34.990	H9199.2
SDev	23.422	.03136	.0147	.01621	.04757	28.592
%RSD	.38037	27.81	5.5356	.94681	.13598	.3108

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H263.78	H1115.4	H174.32	1.0548	H22950.	.89919
SDev	1.2947	3.0529	.58641	.05024	54.16	.0725
%RSD	.49083	.2737	.33639	4.7638	.236	8.0629

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	48.575	56.438	H53.874	L-.13253	.25747	.87302
SDev	.11591	.15097	.10065	.35376	.14386	.31354
%RSD	.23862	.26751	.18683	266.91	55.877	35.915

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-1.0688	-.82429	.16505	L-.2746	H256.9	1.6422
SDev	.24671	.28404	.60353	.1444	.469	.06351
%RSD	23.084	34.459	365.67	52.59	.1826	3.8676

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.14342	.68473	H88.820
SDev	.1879	.01643	.21265
%RSD	131.02	2.4004	.23941

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/19/09 13:10 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.24735	39.576	1.9898	1.9937	1.9967	1.9832
SDev	.00076	.17221	.00638	.00286	.00344	.00189
%RSD	.31025	.43515	.3208	.14349	.17275	.09556

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.110	1.9562	1.9463	1.9545	1.9722	39.736
SDev	.04063	.00131	.00263	.00182	.0059	.03592
%RSD	.10131	.06704	.13554	.09313	.2994	.09039

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	40.448	39.554	1.9523	1.9773	39.22	1.9559
SDev	.15045	.07163	.00239	.02343	.2249	.00304
%RSD	.37197	.1811	.12259	1.1854	.5733	.15572

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9251	1.9838	1.9645	2.0024	2.0173	2.0290
SDev	.00368	.00449	.00266	.00051	.08986	.11652
%RSD	.19127	.22643	.13553	.02554	4.4546	5.7433

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.9935	1.9926	2.0071	1.953	1.829	1.9718
SDev	.03647	.0087	.00359	.0098	.0028	.0041
%RSD	1.8295	.43691	.17905	.5032	.155	.20825

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9368	1.9878	2.0124
SDev	.04491	.00298	.00172
%RSD	2.3192	.1504	.0855

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/19/09 13:25 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00020	.00593	-.00108	.00234	-.00003	.00002
SDev	.00095	.00034	.00084	.0002	.00009	0
%RSD	463.6	5.7529	77.956	8.5881	281.1	33.916

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.02176	.00015	.00020	-.00034	-.00034	-.00341
SDev	.00044	.00033	.00027	.00062	.00006	.00612
%RSD	2.0579	221.25	135.61	179.66	19.354	179.25

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.02163	.00091	.00000	.00057	-.0377	.00042
SDev	.00263	.00501	.00008	.00013	.0679	.00073
%RSD	12.185	550.58	1037.9	23.845	180	173.03

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00050	-.00066	-.00038	-.00019	.00230	.00230
SDev	.00229	.00046	.00084	.00043	.00054	.0008
%RSD	451.66	70.521	220.16	230.6	23.458	34.844

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00175	-.00185	.00034	-.0008	.0001	.00005
SDev	.00184	.00322	.00149	.0013	0	.0001
%RSD	105.04	173.98	435.58	176.4	28.57	184.82

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00045	.00002	-.00019
SDev	.00129	.0003	.00012
%RSD	284.4	1180.3	63.37

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Method: ICAPNC Sample Name: T39317-5 Operator:
Run Time: 10/19/09 13:32 Filename: R101909
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00002	171.95	.03678	L-.21253	2.0581	.00922
SDev	.0055	.18826	.01222	.00397	.00606	.00004
%RSD	21903	.10948	33.23	1.8698	.29484	.46417

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H7880.6	.00818	.11003	.22185	.20689	225.70
SDev	39.863	.00068	.00274	.00241	.00258	.51495
%RSD	.50584	8.3593	2.4956	1.089	1.25	.22816

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	32.155	204.79	9.3600	.03528	4.793	.30239
SDev	.03227	.55988	.02454	.00486	.2277	.00586
%RSD	.10036	.27339	.26226	13.799	4.75	1.9388

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.06743	.34648	.25661	.05103	.05535	.08608
SDev	.01153	.0075	.00203	.01557	.00963	.01959
%RSD	17.107	2.1656	.79123	30.521	17.403	22.769

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01128	-.04547	.09949	.0361	H29.24	.95394
SDev	.01605	.01535	.0285	.0331	.0846	.00182
%RSD	142.35	33.76	28.646	91.86	.2892	.19092

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.03211	.40466	.49520
SDev	.02489	.00086	.00128
%RSD	77.529	.21263	.26003

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Method: ICAPNC Sample Name: T39317-5 Operator:
Run Time: 10/19/09 13:39 Filename: R101909
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00104	.10251	L-.30832	.03698	.02790	-.00082
SDev	.00404	.02266	.04939	.01239	.00076	.00031
%RSD	387.66	22.11	16.02	33.509	2.7244	38.198

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	200.51	-.00066	.00678	H397.96	-.00048	.51591
SDev	.50359	.00023	.00218	7.1324	.00163	.01118
%RSD	.25115	35.825	32.141	1.7923	336.69	2.1685

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.86577	97.718	L-.04180	L-.02775	H409.8	.01008
SDev	.08444	.23256	.00701	.00535	2.565	.00593
%RSD	9.7542	.23799	16.786	19.276	.6258	58.804

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00501	-.00340	-.00141	-.00292	.00460	-.08917
SDev	.01209	.01113	.01035	.01185	.09612	.16636
%RSD	241.2	326.9	731.46	406.04	2088.9	186.56

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.18699	.03047	-.02246	L-.0389	1.359	L-.01340
SDev	.04962	.01614	.00989	.0076	.0023	.00216
%RSD	26.537	52.979	44.073	19.48	.171	16.169

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01572	.02009	L-.22949
SDev	.01784	.00231	.00416
%RSD	113.51	11.537	1.815

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Method: ICAPNC Sample Name: T39317-6 Operator:
Run Time: 10/19/09 13:50 Filename: R101909
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00156	.06848	L-.32503	.04291	.02981	-.00085
SDev	.00506	.02384	.05318	.00795	.00033	.00019
%RSD	322.53	34.816	16.363	18.547	1.1214	22.456

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	214.63	-.00017	.00899	H422.98	-.00045	.56596
SDev	.36431	.00045	.00135	8.394	.00097	.03052
%RSD	.16974	264.22	15.063	1.9845	216.34	5.3929

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	1.1101	104.31	L-.04169	L-.03004	H437.9	.01290
SDev	.03777	.29731	.0084	.00313	1.839	.00542
%RSD	3.4026	.28502	20.151	10.448	.4199	42.051

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00244	-.02790	L-.01680	.00703	.01367	-.10418
SDev	.01067	.00989	.00334	.0105	.10811	.18399
%RSD	436.43	35.465	19.9	149.29	790.39	176.6

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.24427	.06699	-.02566	L-.0388	1.447	L-.01321
SDev	.04586	.02014	.01945	.0149	.0024	.00119
%RSD	18.778	30.077	75.812	38.35	.1634	9.0739

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00395	.02438	L-.24333
SDev	.01605	.00044	.00437
%RSD	406.36	1.8338	1.7977

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Method: ICAPNC Sample Name: T39394-6 Operator:
Run Time: 10/19/09 13:57 Filename: R101909
Mode: CONC Type: S Corr. Factor: 10.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00018	86.738	.01369	L-.10368	1.0396	.00503
SDev	.00124	.31355	.00374	.00268	.00228	.0002
%RSD	674.49	.36149	27.311	2.5879	.21953	4.1583

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H3915.8	.00380	.05612	.70908	.10463	115.26
SDev	4.2646	.00078	.00184	.45431	.00074	.03851
%RSD	.1089	20.594	3.2908	64.071	.71288	.03341

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	15.365	104.67	4.7873	.01676	2.487	.15437
SDev	.06032	.07858	.00104	.00262	.4701	.00113
%RSD	.39261	.07508	.02186	15.673	18.9	.73296

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.03001	.15284	.11411	.00940	.02001	.03247
SDev	.01589	.0095	.01163	.01146	.00673	.0109
%RSD	52.949	6.2203	10.199	121.84	33.655	33.575

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.01024	-.06057	.04309	.0020	H14.10	.48326
SDev	.00432	.01532	.01073	.0118	.0237	.0041
%RSD	42.264	25.302	24.902	601.7	.1683	.84994

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00211	.20309	.26910
SDev	.02531	.00445	.001
%RSD	1196	2.1949	.37379

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 26

Method: ICAPNC Sample Name: T39394-6 Operator:
Run Time: 10/19/09 14:07 Filename: R101909
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00077	85.494	.02378	L-.10575	1.0185	.00500
SDev	.00108	.31365	.00188	.00172	.00232	.00009
%RSD	139.95	.36687	7.9171	1.635	.2278	1.9213

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	H3920.0	.00358	.05533	.13770	.10266	112.29
SDev	6.7044	.00029	.001	.0072	.00034	.28308
%RSD	.17103	8.2319	1.8249	5.2298	.33429	.2521

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	16.217	101.90	4.6453	.01939	2.480	.15067
SDev	.04242	.20963	.00948	.00153	.4567	.00298
%RSD	.2616	.20572	.2042	7.9164	18.41	1.9799

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.02068	.16568	.11838	.02855	.02315	.03747
SDev	.0028	.00453	.00218	.00598	.00362	.00549
%RSD	13.583	2.7363	1.8456	20.966	15.675	14.648

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	-.00811	-.01994	.05299	.0129	H14.41	.50640
SDev	.00033	.00434	.00706	.0026	.0275	.01084
%RSD	4.1719	21.793	13.339	20.32	.1905	2.1412

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00995	.20338	.24698
SDev	.0091	.00095	.00036
%RSD	91.458	.47031	.14691

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 27

Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/19/09 14:15 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.24956	39.722	2.0013	2.0060	2.0122	1.9956
SDev	.00052	.09322	.0023	.00407	.00499	.0042
%RSD	.21075	.23469	.11529	.20328	.24814	.21089

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.211	1.9627	1.9545	1.9606	1.9828	39.970
SDev	.07296	.00549	.00424	.00349	.00301	.06767
%RSD	.18144	.28016	.21719	.17808	.1522	.16932

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	40.758	39.790	1.9607	1.9952	39.34	1.9651
SDev	.06186	.09157	.00462	.01651	.1121	.00459
%RSD	.15178	.23014	.23605	.8275	.285	.23408

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9292	1.9896	1.9697	2.0078	2.0322	2.0486
SDev	.00092	.00568	.0036	.00403	.08529	.10821
%RSD	.04782	.28562	.18313	.20094	4.1971	5.2823

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.9987	1.9985	2.0121	1.983	1.837	1.9793
SDev	.03959	.00246	.00486	.0054	.0035	.00238
%RSD	1.9813	.12339	.24186	.2706	.1928	.12048

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9463	1.9967	2.0358
SDev	.05287	.00425	.00598
%RSD	2.7167	.21307	.29406

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/19/09 14:23 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00002	.00995	.00007	.00210	.00001	.00004
SDev	.00025	.00295	.00058	.00065	.00001	.00001
%RSD	1159.3	29.717	800.66	31.284	117.75	22.848

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.02153	.00009	.00006	.00089	-.00013	.00393
SDev	.00037	.00011	.00015	.00015	.00018	.00513
%RSD	1.7449	125.29	244.81	17.01	141.46	130.56

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.01803	-.00003	.00000	.00187	-.0144	.00004
SDev	.00131	.00169	.00003	.00038	.0361	.00076
%RSD	7.3156	5046.9	961.86	20.647	251.5	1580.5

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00013	-.00160	-.00087	-.00068	H.00934	.00990
SDev	.00086	.00118	.00107	.00035	.00378	.00492
%RSD	633.23	73.698	121.81	51.914	40.45	49.733

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00769	-.00233	-.00015	-.0006	.0001	.00062
SDev	.00166	.00061	.00062	.0015	0	.00017
%RSD	21.588	26.261	410.88	266.6	11.44	27.327

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00129	.00007	-.00015
SDev	.00125	.00032	.00006
%RSD	97.514	419.4	40.034

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 29

Method: ICAPNC Sample Name: T39513-1 Operator:
Run Time: 10/19/09 14:42 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00007	2.5577	.00700	1.5925	.22356	-.00066
SDev	.01399	.03027	.03776	.01755	.00765	.00067
%RSD	19745	1.1835	538.8	1.1025	3.4225	100.62

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	444.31	-.00041	.02011	.02573	-.00077	25.481
SDev	3.1155	.00272	.01644	.01205	.01601	.20578
%RSD	.70119	653.66	81.757	46.859	2067.9	.80759

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H121.44	H2010.6	.30147	.06418	H7012.	.01579
SDev	.82247	14.802	.00201	.01765	41.12	.00238
%RSD	.67726	.73619	.66977	27.502	.5865	15.086

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00963	-.05055	L-.02532	L-.05580	.08577	.07954
SDev	.03823	.12379	.09071	.0542	.02897	.03776
%RSD	396.71	244.89	358.23	97.131	33.785	47.484

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.07187	-.04376	-.07536	L-.0831	H11.72	.05289
SDev	.05104	.0418	.08766	.0097	.06	.0087
%RSD	71.024	95.506	116.32	11.7	.5115	16.466

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.02863	.02110	.09201
SDev	.07755	.00646	.0042
%RSD	270.81	30.655	4.5673

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 30

Method: ICAPNC Sample Name: MP10445-D1 Operator:
Run Time: 10/19/09 14:49 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00315	1.9824	L-.01712	1.5742	.17882	.00140
SDev	.00866	.15454	.01368	.02386	.00288	.00073
%RSD	275.08	7.7961	79.895	1.5158	1.612	52.268

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	434.26	.00047	.02460	.01102	.00143	24.541
SDev	1.4784	.00321	.00793	.00451	.0139	.38724
%RSD	.34045	683.39	32.238	40.946	966.99	1.5779

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H117.66	H1958.5	.29566	.02320	H6803.	.05547
SDev	.8748	6.0239	.00155	.01608	69.71	.01836
%RSD	.74353	.30757	.52623	69.283	1.025	33.097

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.09971	-.06407	L-.06391	L-.03908	.02998	.02149
SDev	.08984	.04233	.05795	.02116	.03738	.04646
%RSD	90.105	66.06	90.678	54.147	124.65	216.18

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.02047	-.11969	-.01305	L-.0572	H11.36	.04411
SDev	.03293	.06113	.05461	.033	.0246	.00878
%RSD	160.87	51.076	418.37	57.71	.2166	19.907

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00430	.01007	.06939
SDev	.03684	.01133	.00327
%RSD	855.88	112.53	4.7234

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 31

Method: ICAPNC Sample Name: MP10445-SD1 Operator:
Run Time: 10/19/09 14:55 Filename: R101909
Mode: CONC Type: S Corr. Factor: 250.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.02254	2.4047	L-.05119	2.0157	.25630	.02515
SDev	.11278	.28063	.31471	.17304	.01177	.00377
%RSD	500.34	11.67	614.69	8.585	4.5935	15.018

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	446.41	.00175	.05503	.03513	.00255	25.725
SDev	1.4817	.02591	.07517	.05607	.0139	.48389
%RSD	.33192	1480.1	136.6	159.6	543.75	1.881

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H114.89	H1992.3	.30122	.13575	H6865.	.08072
SDev	1.2338	5.0307	.00738	.07898	34.43	.08999
%RSD	1.0739	.25251	2.4524	58.184	.5015	111.48

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.13987	-.25499	L-.15855	L-.14603	.33685	.29424
SDev	.34794	.15398	.03699	.20205	.35181	.61679
%RSD	248.75	60.385	23.332	138.36	104.44	209.62

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.28409	-.43287	-.07447	L-.3935	H11.64	.04436
SDev	.21773	.51874	.42108	.302	.0354	.02531
%RSD	76.641	119.84	565.38	76.76	.3041	57.074

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.20282	.02693	.69977
SDev	.41452	.07487	.02894
%RSD	204.38	278	4.1365

Zoom In Zoom Out

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Method: ICAPNC Sample Name: MP10445-S1 Operator:
Run Time: 10/19/09 15:02 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.15624	54.473	.41186	2.5997	.56573	.42113
SDev	.02001	.23582	.02295	.03571	.00049	.00255
%RSD	12.808	.43292	5.574	1.3737	.08787	.60708

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	487.08	.40451	.41320	.39705	.40998	75.454
SDev	2.1182	.00433	.00194	.00868	.00568	.36238
%RSD	.43487	1.0722	.47189	2.1864	1.3867	.48026

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H174.05	H2020.6	.71754	.46998	H6910.	.42344
SDev	.9109	8.5726	.00288	.009	36.79	.01691
%RSD	.52335	.42425	.40234	1.9161	.5324	3.9949

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.27773	.40290	.37326	.36656	.48125	.49284
SDev	.06442	.04306	.01399	.04886	.03571	.04294
%RSD	23.196	10.689	3.7501	13.33	7.4223	8.7142

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.43162	.30137	.38555	.3162	H11.76	.46877
SDev	.06118	.08329	.04656	.0304	.0366	.01269
%RSD	14.175	27.64	12.076	9.61	.311	2.7078

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.39880	.42159	.54315
SDev	.11674	.01377	.00341
%RSD	29.274	3.2672	.62912

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 33

Method: ICAPNC Sample Name: MP10445-S2 Operator:
Run Time: 10/19/09 15:08 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.17309	51.627	.39778	2.5403	.55567	.39747
SDev	.01473	.14959	.10039	.01861	.00198	.00046
%RSD	8.5107	.28976	25.238	.73296	.3567	.11645

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	465.03	.38947	.40289	.37882	.39319	72.020
SDev	1.7701	.00233	.00209	.0123	.00119	.57513
%RSD	.38064	.59983	.52067	3.2477	.30453	.79857

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	H169.29	H1922.7	.69971	.44726	H6696.	.39811
SDev	.28817	2.2817	.00422	.01097	8.733	.02076
%RSD	.17022	.11867	.60359	2.4543	.1304	5.2162

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.30409	.35249	.34802	.40433	.47174	.49125
SDev	.04177	.11656	.06553	.05498	.01312	.03074
%RSD	13.737	33.069	18.831	13.598	2.7821	6.2579

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.40620	.34174	.42258	.3390	H11.25	.44197
SDev	.02328	.09741	.12917	.0428	.0074	.00437
%RSD	5.7333	28.505	30.567	12.64	.0656	.99029

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.35096	.41478	.53382
SDev	.11925	.00303	.00774
%RSD	33.978	.7305	1.4505

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39209-4 Operator:
Run Time: 10/19/09 15:20 Filename: R101909
Mode: CONC Type: S Corr. Factor: 5.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00050	.02332	L-.04859	.10960	.03723	.00019
SDev	.00194	.00436	.01062	.00192	.00025	.00007
%RSD	384.35	18.701	21.87	1.755	.69334	38.195

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	63.375	.00018	.00439	H74.747	.00266	.10436
SDev	.1817	.0005	.00084	.27282	.00045	.02912
%RSD	.2867	270.22	19.138	.365	17.25	27.902

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.47804	49.712	-.00416	.00316	H376.3	.00232
SDev	.02661	.07805	.00068	.00218	.7491	.00277
%RSD	5.5676	.157	16.562	69.073	.1991	119.23

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00473	-.00495	-.00053	-.00020	.02653	.01785
SDev	.00575	.00136	.00272	.01258	.00314	.00662
%RSD	121.54	27.563	512.64	6258.6	11.851	37.129

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.04115	.00341	-.00335	-.0094	.6291	-.00236
SDev	.01215	.01435	.01192	.0027	.0012	.00009
%RSD	29.541	420.09	355.39	28.81	.1896	4.1005

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00885	.00649	L-.03214
SDev	.01101	.00073	.00045
%RSD	124.29	11.368	1.4218

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Method: ICAPNC Sample Name: T39513-7 Operator:
Run Time: 10/19/09 15:26 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01386	.95783	.15863	1.7524	.02372	.00103
SDev	.00589	.09855	.03898	.02473	.00189	.00088
%RSD	42.471	10.289	24.578	1.4112	7.9806	85.886

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	426.57	.00178	.02416	.23038	.00919	14.629
SDev	1.3817	.00329	.0136	.15745	.00622	.36672
%RSD	.32389	184.86	56.292	68.342	67.652	2.5068

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	51.271	217.85	.15735	.02547	H3410.	.04486
SDev	.18761	.32556	.00079	.0083	21.87	.0334
%RSD	.36593	.14944	.50756	32.591	.6414	74.45

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00880	-.04105	L-.01291	L-.02790	.13880	.15601
SDev	.03593	.03883	.01397	.07077	.05021	.05526
%RSD	408.13	94.601	108.13	253.64	36.181	35.425

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.07680	-.10223	-.00494	.0214	H8.330	.01782
SDev	.09875	.07936	.07455	.0377	.0227	.00005
%RSD	128.58	77.632	1508.7	176	.2721	.30003

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.03122	.01573	.13928
SDev	.10379	.01294	.00316
%RSD	332.44	82.235	2.2753

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39513-8 Operator:
Run Time: 10/19/09 15:33 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00012	.01473	.00003	.04230	.00044	.00003
SDev	.0003	.0023	.00093	.00018	0	0
%RSD	243.11	15.647	2881.3	.43273	.71329	10.13

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	6.7042	.00003	-.00005	.00052	.00008	.13537
SDev	.01447	.00009	.00013	.00038	.00025	.00344
%RSD	.21592	307.08	250.76	73.662	310.67	2.5438

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.88230	2.9299	.00418	.00011	171.0	.00069
SDev	.00199	.00737	.00004	.00018	.304	.0002
%RSD	.22583	.25155	1.1463	162.32	.1778	29.696

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00007	-.00095	-.00037	-.00142	.00081	.00036
SDev	.00074	.0008	.00054	.00066	.00022	.00054
%RSD	984.41	84.678	143.03	46.894	27.648	152.23

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00116	-.00194	-.00145	-.0001	.1215	.00045
SDev	.00091	.00163	.00022	.0005	.0001	.00026
%RSD	78.44	84.141	15.192	529.9	.1029	58.791

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00146	.00032	.00240
SDev	.00069	.0003	.00003
%RSD	47.58	93.737	1.6437

Zoom In Zoom Out

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Method: ICAPNC Sample Name: T39646-1 Operator:
Run Time: 10/19/09 15:39 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00025	.00544	.00006	.04661	.00036	.00009
SDev	.00036	.00138	.00045	.00034	0	.00001
%RSD	140.14	25.48	671.37	.74049	.49141	10.473

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	4.8012	.00008	.00000	.00021	-.00019	-.00041
SDev	.00574	.00005	.00019	.00026	.00005	.00309
%RSD	.11973	57.314	2993	122.75	31.092	749.71

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.42048	1.3180	.00083	.00022	36.21	.00005
SDev	.00092	.00262	.00003	.00047	.1611	.00027
%RSD	.22024	.19913	3.9169	211.7	.4449	524.95

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.00096	-.00076	-.00057	-.00122	-.00006	-.00075
SDev	.00058	.00153	.00086	.00094	.00055	.00108
%RSD	60.893	200.17	149.85	77.149	890.25	144.6

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00076	-.00304	-.00062	.0003	.1035	.00020
SDev	.00071	.00211	.00183	.0013	.0001	.0001
%RSD	93.243	69.45	295.59	386.7	.1109	48.807

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00047	.00004	.00284
SDev	.00127	.00022	.00002
%RSD	267.33	497.01	.71472

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/19/09 15:54 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.25099	40.043	2.0126	2.0254	2.0287	2.0050
SDev	.0002	.16948	.00473	.00319	.00454	.00413
%RSD	.08072	.42324	.23548	.1576	.22417	.20601

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	40.607	1.9753	1.9740	1.9720	1.9935	40.223
SDev	.12242	.00377	.00529	.00531	.00504	.09517
%RSD	.30148	.19105	.26801	.26968	.25308	.2366

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	41.003	40.011	1.9736	2.0128	39.68	1.9812
SDev	.09228	.10497	.00559	.02275	.1699	.00554
%RSD	.22506	.26236	.28333	1.1305	.4282	.27995

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9460	2.0005	1.9825	2.0248	2.0731	2.0968
SDev	.00601	.00762	.00703	.00257	.08039	.10477
%RSD	.30906	.38095	.35468	.12731	3.8777	4.9968

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	2.0252	2.0148	2.0297	2.010	1.849	1.9931
SDev	.032	.00488	.00573	.0075	.0054	.00626
%RSD	1.5804	.24245	.28249	.3746	.2946	.31435

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9548	2.0055	2.0588
SDev	.06352	.00594	.00506
%RSD	3.2496	.29637	.24617

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Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/19/09 16:07 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00013	.00504	-.00137	.00246	.00002	.00008
SDev	.0002	.00105	.00149	.00065	.00002	.00002
%RSD	160.11	21.016	109.03	26.576	99.259	33.117

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.02617	.00004	.00029	.00001	-.00014	.00960
SDev	.00063	.00004	.0001	.00014	.0002	.00145
%RSD	2.4235	93.58	34.694	855.69	140.15	15.161

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.04510	.00128	.00029	.00089	-.0306	.00047
SDev	.00365	.00111	.00014	.00047	.015	.00039
%RSD	8.0967	86.876	49.799	53.285	48.93	82.738

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00031	-.00025	.00017	-.00086	.00343	.00226
SDev	.00151	.00058	.00068	.001	.00138	.00156
%RSD	478.67	230.34	404.61	116.39	40.37	69.148

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00520	-.00397	.00039	.0000	.0001	.00027
SDev	.00119	.00259	.00046	.0004	0	.0003
%RSD	22.888	65.167	117.12	921.7	4.03	109.34

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.00160	.00013	-.00005
SDev	.00122	.00013	.00003
%RSD	76.23	101.89	57.569

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Method: ICAPNC Sample Name: T39513-8 Operator:
Run Time: 10/19/09 16:14 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00535	.81638	.11674	2.1158	.03601	.00490
SDev	.00986	.17257	.03992	.0048	.00283	.00042
%RSD	184.31	21.139	34.195	.22725	7.8589	8.7265

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	336.41	-.00247	.03204	.00800	.02697	7.2235
SDev	.76723	.00646	.03557	.00876	.01663	.45941
%RSD	.22806	261.41	111.01	109.57	61.677	6.36

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	44.329	146.55	.27635	.05714	H8408.	.05515
SDev	.21023	.08906	.0092	.03644	59.78	.00558
%RSD	.47427	.06077	3.3294	63.772	.711	10.131

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.11392	.06534	.01854	L-.02053	.14051	.18837
SDev	.11198	.13398	.05277	.04131	.04678	.1101
%RSD	98.293	205.05	284.54	201.15	33.299	58.451

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.01657	-.18879	.04958	L-.0691	H6.031	.04622
SDev	.08624	.07911	.05832	.0072	.0067	.00509
%RSD	520.39	41.907	117.63	10.42	.1105	11.019

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	.01998	.03940	.39530
SDev	.08826	.02668	.04228
%RSD	441.57	67.727	10.698

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Method: ICAPNC Sample Name: T39646-1 Operator:
Run Time: 10/19/09 16:27 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00249	2.3266	.01789	2.3615	.76046	.00870
SDev	.01838	.57299	.06742	.0342	.17704	.002
%RSD	737.04	24.628	376.87	1.4485	23.282	23.008

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	246.30	.00183	.01328	L-.01258	.00205	3.1968
SDev	.47129	.01166	.0153	.01955	.00544	.83105
%RSD	.19135	636.45	115.21	155.41	265.42	25.996

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	22.924	68.579	.09809	.02551	H1840.	.01153
SDev	.32989	.24186	.00742	.0153	4.811	.02846
%RSD	1.4391	.35268	7.5654	59.998	.2614	246.81

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	-.07447	-.00004	L-.01138	L-.03992	.08386	.10108
SDev	.09206	.01225	.02949	.04966	.02509	.02766
%RSD	123.63	27067	259.1	124.39	29.925	27.368

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.02174	-.11612	-.01673	L-.0488	H5.224	.17207
SDev	.02828	.0932	.03754	.0737	.0131	.0739
%RSD	130.1	80.261	224.32	151	.2514	42.948

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.08220	.02798	.19277
SDev	.08963	.00641	.00877
%RSD	109.03	22.916	4.5508

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Method: ICAPNC Sample Name: T39646-2 Operator:
Run Time: 10/19/09 16:34 Filename: R101909
Mode: CONC Type: S Corr. Factor: 50.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	L-.01118	.76889	.00863	2.7952	.17786	.00442
SDev	.00889	.20936	.04319	.00657	.05413	.00044
%RSD	79.552	27.229	500.54	.23516	30.434	10.038

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	441.24	L-.00452	.01662	L-.01273	.00658	.58844
SDev	1.1628	.00552	.0201	.00453	.00918	.26742
%RSD	.26352	122.15	120.99	35.589	139.53	45.447

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	22.975	81.981	1.7237	.00790	H4988.	.02003
SDev	.28628	.15276	.00547	.02144	51.66	.01881
%RSD	1.2461	.18634	.31757	271.24	1.036	93.874

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.06760	-.01455	.02460	.03242	.08072	.08779
SDev	.07271	.06171	.02259	.04731	.06501	.08511
%RSD	107.56	423.92	91.83	145.95	80.545	96.952

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.03827	-.05765	.06344	L-.0432	H6.953	.07093
SDev	.05555	.03702	.06454	.0112	.0214	.00012
%RSD	145.14	64.231	101.74	25.82	.3085	.17659

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	L-.05377	.00215	.17000
SDev	.05598	.01001	.00869
%RSD	104.12	464.83	5.1118

Zoom In Zoom Out

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Method: ICAPNC Sample Name: CCV Operator:
Run Time: 10/19/09 16:42 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.24996	39.170	1.9708	1.9607	1.9743	1.9707
SDev	.00089	.18401	.00985	.00608	.00567	.00337
%RSD	.35691	.46978	.50012	.31021	.28745	.17145

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	39.629	1.9266	1.9364	1.9366	1.9587	39.235
SDev	.07615	.00311	.00349	.00422	.00648	.0851
%RSD	.19216	.16193	.18053	.21809	.33103	.21692

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	40.209	39.233	1.9341	2.0017	38.89	1.9339
SDev	.16445	.09543	.00404	.02354	.2649	.00409
%RSD	.409	.24324	.20892	1.1764	.681	.21158

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	1.9045	1.9489	1.9344	1.9753	1.9820	1.9977
SDev	.00506	.01181	.0091	.0051	.13501	.1751
%RSD	.26606	.6061	.47059	.25862	6.8122	8.7654

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	1.9501	1.9670	1.9792	2.009	1.820	1.9752
SDev	.05486	.00512	.00648	.0126	.0046	.00775
%RSD	2.8135	.2605	.32755	.6287	.2537	.39266

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	1.9602	1.9820	2.0005
SDev	.00512	.00364	.00356
%RSD	.26135	.1838	.17835

Zoom In Zoom Out

Analysis Report Averages 10/26/09 08:41:17 AM page 44

Method: ICAPNC Sample Name: CCB Operator:
Run Time: 10/19/09 17:03 Filename: R101909
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130
Units	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00015	.00566	-.00177	.00229	.00015	.00011
SDev	.00037	.0007	.00022	.0003	.00011	.00001
%RSD	236.63	12.415	12.869	13.386	75.562	10.317

Elems	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714
Units	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
Avge	.03880	.00000	.00007	-.00021	-.00008	.00416
SDev	.0012	.00012	.0001	.00038	.00016	.0034
%RSD	3.1073	1625.6	143.74	175.98	201.26	81.644

Elems	K_7664	Mg2790	Mn2576	Mo2020	Na3302	Ni2316
Units	mg/L	mg/L	mg/L	mg/L	ppm	mg/L
Avge	.04644	.00248	.00007	.00028	-.0054	.00000
SDev	.00107	.00279	.00004	.00031	.1075	.00027
%RSD	2.3081	112.68	61.494	110.57	1992	23454

Elems	2203-1	2203-2	Pb2203	Se1960	Sb2068	2068-1
Units			mg/L	mg/L	mg/L	
Avge	.00043	-.00134	-.00051	-.00024	.00136	.00095
SDev	.00189	.00151	.00163	.0011	.00186	.00321
%RSD	433.63	112.37	313.65	448.86	136.89	334.94

Elems	2068-2	1960-1	1960-2	Sn1899	Sr4215	Ti3349
Units				ppm	ppm	mg/L
Avge	.00160	-.00110	-.00011	-.0007	.0001	.00010
SDev	.00085	.00201	.00124	.001	0	0
%RSD	53.324	183.28	1104.6	142.2	12.58	.48696

Elems	Tl1908	V_2924	Zn2138
Units	mg/L	mg/L	mg/L
Avge	-.00013	.00019	.00045
SDev	.00067	.0001	.00001
%RSD	516.26	51.543	3.6302

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

ACCUTEST

Batch ID #: MP 10445

Aqueous Digestion Log

ICP DIGESTION METHOD: SW-846 3010A or EPA 200.7

Digestion Block ID #: 4 Thermometer ID #: 71 Prep Date: 10/14/09

Regular ✓		Acceptable Temperature Ranges: 90 to 95°C	
200.7		START TIME: 1345	END TIME: 710 10/15/09
TCLP			
SPLP		START TEMP: 95	END TEMP: 95°
Acid Reference ID #:		Spike Reference ID:	DOE:
1:1 HCl: MA2004-107-859		Spike Solution: MA2006-019-098	DOE: 4/6/10
HNO_3: AB09031		TCLP Spike Solution:	DOE:
Filter Lot #:		Spike Solution:	DOE:
Digestion Tube Lot#: A9054P037		Spike Solution:	DOE:

Sample ID	Initial pH	Adjusted pH	Sample Volume (mL)	Spike Amount (mL)	Acid Amount (mL)		Final Volume (mL)	Comments
				Spike / TCLP / Addit.	HNO3 / 1:1 HCl			
MB1	7	<2	50		1.5x2	5	50	
LC1(LC)	↓	↓	↓	1.0	↓	↓	↓	
LC2(LCD)								
SD1 T39513-1	<2	—	50		1.5x2	5	50	
D1(DUP)								
S1(MS)				1.0				
S2(MSD)				1.0				
1 T39513-1								
2 209-1								
3 -2								
4 -3								
5 -4								
6 -5								
7 -6								
8 -7								
9 -8								
10 316-1								
11 5								
12 11								
13 12								
14 513-1								
15 -7								
16 -8								
17 646-1								
18 -2								
19 785-1			5/50					
20 -2								

Lab Technician: LT Date: 10/27/09

Analyst: AS Date: 10/28/09

QC Reviewer: Date:

Form: AA-018A
Rev. Date: 10/8/2009

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP7035/GN18410	0.010	0.0	mg/l	0.2	0.196	98.0	90-110%
Cyanide	GP7036/GN18412	0.010	0.0	mg/l	0.2	0.196	98.0	90-110%
Sulfate	GN18454	10	0.0	mg/l	100	105	104.9	80-120%

Associated Samples:
Batch GN18454: T39646-1, T39646-2
Batch GP7035: T39646-1, T39646-10, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9
Batch GP7036: T39646-11
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP7035/GN18410	T39646-6	mg/l	0.012	0.0095	23.3(a)	0-20%
Cyanide	GP7036/GN18412	T39672-1	mg/l	0.0	0.0	0.0	0-20%
Sulfate	GN18454	T39675-1	mg/l	394	395	0.2	0-20%

Associated Samples:
Batch GN18454: T39646-1, T39646-2
Batch GP7035: T39646-1, T39646-10, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9
Batch GP7036: T39646-11
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP7035/GN18410	T39646-6	mg/l	0.012	0.2	0.19	89.0N	90-110%
Cyanide	GP7036/GN18412	T39672-1	mg/l	0.0	0.2	0.19	95.0	90-110%
Sulfate	GN18454	T39675-1	mg/l	394	25	417	92.2	75-125%

Associated Samples:
Batch GN18454: T39646-1, T39646-2
Batch GP7035: T39646-1, T39646-10, T39646-2, T39646-3, T39646-4, T39646-5, T39646-6, T39646-7, T39646-8, T39646-9
Batch GP7036: T39646-11
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W1CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18410
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:58	GN18410-ICV1	1		
11:59	GN18410-ICB1	1		
12:01	GP7035-B1	1		
12:01	GP7035-MB1	1		
12:03	GP7035-S1	1		
12:04	GP7035-D1	1		
12:06	T39646-6	1		
12:06	T39646-1	1		
12:08	T39646-2	1		
12:09	T39646-3	1		
12:11	T39646-4	1		
12:11	T39646-5	1		
12:13	GN18410-CCV1	1		
12:14	GN18410-CCB1	1		
12:16	T39646-7	1		
12:16	T39646-8	1		
12:18	T39646-9	1		
12:19	T39646-10	1		
12:21	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:23	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:28	GN18410-CCV2	1		
12:29	GN18410-CCB2	1		
12:31	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W1CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18410
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:39	ZZZZZZ	1		
12:51	ZZZZZZ	2		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W1CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Run ID: GN18410 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18410-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18410-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18410-CCV1	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18410-CCB1	Cyanide	0.0040 U	0.010	0.0040			
GN18410-CCV2	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18410-CCB2	Cyanide	0.0040 U	0.010	0.0040			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W2CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18412
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:58	GN18412-ICV1	1		
11:59	GN18412-ICB1	1		
12:01	GP7036-B1	1		
12:01	GP7036-MB1	1		
12:03	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:13	GN18412-CCV1	1		
12:14	GN18412-CCB1	1		
12:16	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:19	ZZZZZZ	1		
12:21	T39646-11	1		
12:21	GP7036-S1	1		
12:23	GP7036-D1	1		
12:24	T39672-1	1		(sample used for QC only; not part of login T39646)
12:26	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:28	GN18412-CCV2	1		
12:29	GN18412-CCB2	1		
12:31	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	GN18412-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W2CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18412
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:39	GN18412-CCB3	1		
12:51	ZZZZZZ	2		
13:38	GN18412-CCV4	1		
13:39	GN18412-CCB4	1		
13:41	ZZZZZZ	2		
13:41	GN18412-CCV5	1		
13:43	GN18412-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39646
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 102109W2CN.TXT Date Analyzed: 10/21/09 Methods: EPA 335.4
Run ID: GN18412 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18412-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18412-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18412-CCV1	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18412-CCB1	Cyanide	0.0040 U	0.010	0.0040			
GN18412-CCV2	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18412-CCB2	Cyanide	0.0040 U	0.010	0.0040			
GN18412-CCV3	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18412-CCB3	Cyanide	0.0040 U	0.010	0.0040			
GN18412-CCV4	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18412-CCB4	Cyanide	0.0040 U	0.010	0.0040			
GN18412-CCV5	Cyanide	0.31	0.010	0.0040	.3	103.3	90-110
GN18412-CCB5	Cyanide	-0.0053	0.010	0.0040			

(!) Outside of QC limits

General Chemistry

Raw Data

ACCUTEST LABORATORIES GULF COAST

10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0064	0.00		11:53:49 AM
R-4	RBL	0.0000	0.0116	0.00		11:54:14 AM
R-4	RBL	0.0000	0.0107	0.00		11:56:19 AM
R-4	RBL	0.0000	0.0064	0.00		11:56:43 AM
1	ICV	0.1954	0.2299	0.00		11:58:48 AM
2	ICB	-0.0012	-0.0013	0.00	INV,><,LL	11:59:13 AM
3	BSP GP7035/GP7036-B1	0.1959	0.2305	0.00		12:01:18 PM
4	MB GP7035/GP7036-MB1	-0.0010	-0.0011	0.00	INV,><,LL	12:01:43 PM
5	T39646-6S1 GP7035-S1	0.1895	0.2229	0.00		12:03:47 PM
6	T39646-6D1 GP7035-D1	0.0095	0.0114	0.00		12:04:12 PM
7	T39646-6	0.0115	0.0137	0.00		12:06:17 PM
8	T39646-1	0.0468	0.0552	0.00		12:06:42 PM
9	T39646-2	0.1706	0.2007	0.00		12:08:47 PM
10	T39646-3	0.2607	0.3066	0.00		12:09:12 PM
11	T39646-4	0.0035	0.0042	0.00		12:11:16 PM
12	T39646-5	0.3660	0.4304	0.00		12:11:41 PM
13	CCV	0.3002	0.3530	0.00		12:13:46 PM
14	CCB	-0.0038	-0.0044	0.00	INV,><,LL	12:14:11 PM
15	T39646-7	0.0319	0.0377	0.00		12:16:16 PM
16	T39646-8	0.0083	0.0100	0.00		12:16:40 PM
17	T39646-9	0.0059	0.0070	0.00		12:18:45 PM
18	T39646-10	0.0042	0.0052	0.00		12:19:10 PM
19	T39646-11	0.0068	0.0081	0.00		12:21:15 PM
20	T39672-1S1 GP7036-S1	0.1862	0.2191	0.00		12:21:40 PM
21	T39672-1D1 GP7036-D1	0.0002	0.0003	0.00	><	12:23:44 PM
22	T39672-1	-0.0014	-0.0015	0.00	INV,><,LL	12:24:09 PM
23	T39672-2	-0.0014	-0.0015	0.00	INV,><,LL	12:26:14 PM
24	T39513-5	0.2479	0.2916	0.00		12:26:39 PM
25	CCV1	0.2996	0.3523	0.00		12:28:43 PM
26	CCB1	-0.0027	-0.0031	0.00	INV,><,LL	12:29:08 PM
27	T39513-6	0.0213	0.0253	0.00		12:31:13 PM
28	T39513-7	0.0373	0.0440	0.00		12:31:38 PM
29	T39513-8 NR	0.6151	0.7231	0.00	><,LH	12:33:43 PM
30	T39526-1	0.0093	0.0112	0.00		12:34:08 PM
31	T39865-1	-0.0009	-0.0009	0.00	INV,><,LL	12:36:13 PM
32	T39422-1	0.0005	0.0007	0.00	><	12:36:38 PM

Report Date :10/21/2009 Run Date :10/21/2009 Operator : WESTCO Plan # :20091021001

Plan Description : 102109w1cn

a/ 10/21/09

12.1.1 12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
33	CCV2	0.2979	0.3503	0.00		12:38:43 PM
34	CCB2	-0.0024	-0.0027	0.00	INV,><,LL	12:39:08 PM
29-[1/2]	T39513-8 UL	0.5546	0.3261	0.00	LH	12:51:23 PM

Report Date :10/21/2009 **Run Date :10/21/2009** **Operator : WESTCO** **Plan # :20091021001**

Plan Description : 102109w1cn CV 10/21/09

12.1.1 12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0060	0.00		1:33:42 PM
R-4	RBL	0.0000	0.0064	0.00		1:34:07 PM
R-4	RBL	0.0000	0.0058	0.00		1:36:12 PM
R-4	RBL	0.0000	0.0062	0.00		1:36:37 PM
1	CCV	0.3022	0.3554	0.00		1:38:42 PM
2	CCB	0.0015	0.0019	0.00	><	1:39:07 PM
3-[1/2]	T39513-8	0.5986	0.3519	0.00		1:41:12 PM
4	CCV1	0.3073	0.3613	0.00		1:41:37 PM
5	CCB1	-0.0053	-0.0061	0.00	INV,><,LL	1:43:42 PM

12.1.1

12

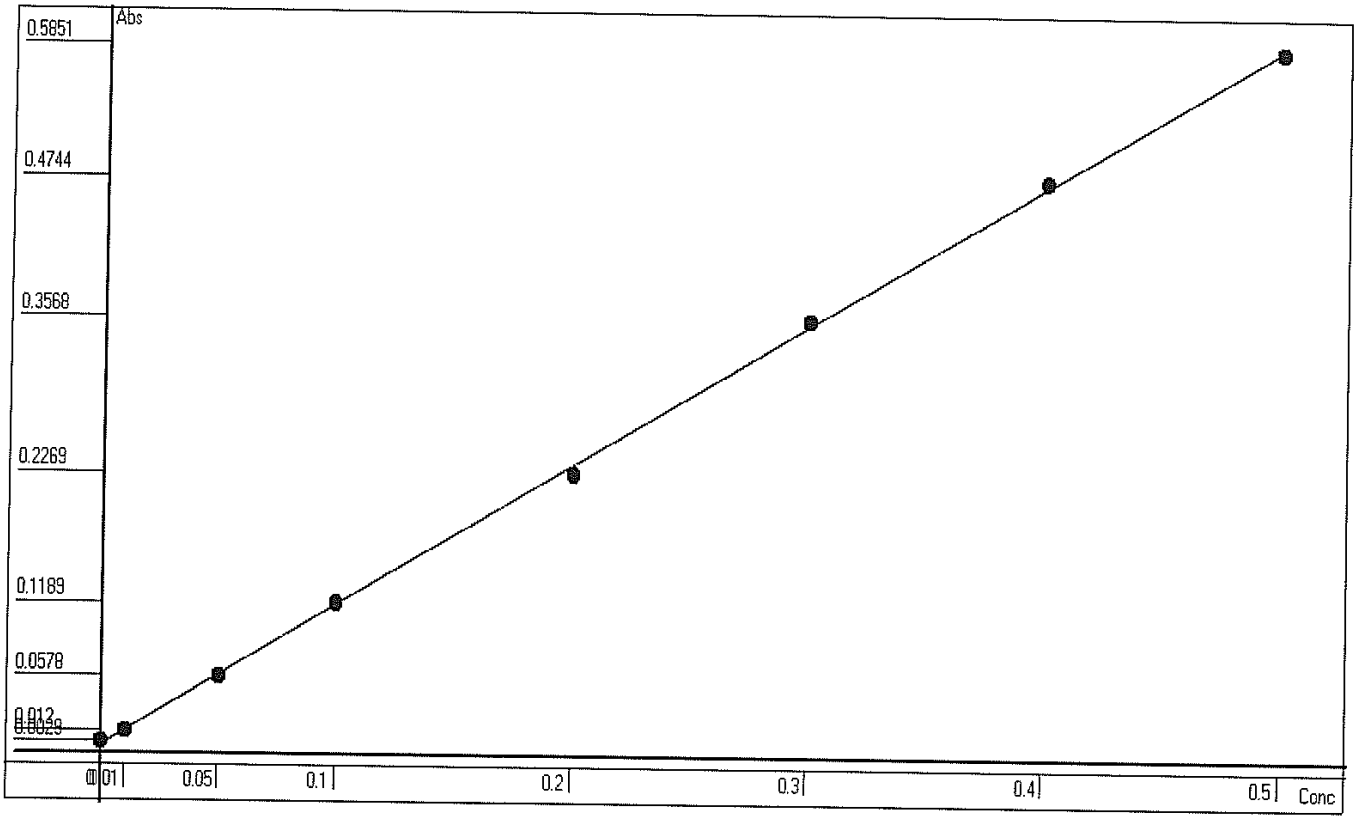
Report Date :10/21/2009 **Run Date :10/21/2009** **Operator : WESTCO** **Plan # :20091021002**

Plan Description : 102109w2cn @ 10/21/09

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091021001 Description : [102109w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	0.0029	0	0.0024	0
2	0.0120	0.01	0.0101	1
3	0.0578	0.05	0.0491	-2
4	0.1189	0.1	0.1011	1
5	0.2269	0.2	0.1929	-4
6	0.3568	0.3	0.3035	1
7	0.4744	0.4	0.4035	1
8	0.5851	0.5	0.4977	0

Conc= +0.8508*Abso -0.0001 R^2=0.9996

RBL

Report Date 10/21/2009 Run Date 6/8/2009

cd 10/21/09

12.1.1

12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
1	ICV	Rack A1 - 1	1/1	X
2	ICB	Rack A1 - 2	1/1	X
3	BSP	Rack A1 - 3	1/1	X
4	MB	Rack A1 - 4	1/1	X
5	T39646-6S1	Rack A1 - 5	1/1	X
6	T39646-6D1	Rack A1 - 6	1/1	X
7	T39646-6	Rack A1 - 7	1/1	X
8	T39646-1	Rack A1 - 8	1/1	X
9	T39646-2	Rack A1 - 9	1/1	X
10	T39646-3	Rack A1 - 10	1/1	X
11	T39646-4	Rack A1 - 11	1/1	X
12	T39646-5	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39646-7	Rack A1 - 15	1/1	X
16	T39646-8	Rack A1 - 16	1/1	X
17	T39646-9	Rack B1 - 1	1/1	X
18	T39646-10	Rack B1 - 2	1/1	X
19	T39646-11	Rack B1 - 3	1/1	X
20	T39672-1S1	Rack B1 - 4	1/1	X
21	T39672-1D1	Rack B1 - 5	1/1	X
22	T39672-1	Rack B1 - 6	1/1	X
23	T39672-2	Rack B1 - 7	1/1	X
24	T39513-5	Rack B1 - 8	1/1	X
25	CCV1	Rack B1 - 9	1/1	X
26	CCB1	Rack B1 - 10	1/1	X
27	T39513-6	Rack B1 - 11	1/1	X
28	T39513-7	Rack B1 - 12	1/1	X
29	T39513-8	Rack B1 - 13	1/1	X
30	T39526-1	Rack B1 - 14	1/1	X
31	T39865-1	Rack B1 - 15	1/1	X
32	T39422-1	Rack B1 - 16	1/1	X
33	CCV2	Rack C1 - 1	1/1	X

Report Date :10/21/2009 **Operator : WESTCO** **Plan # :20091021001**

Plan Description : 102109w1cn

CW 10/21/09

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
34	CCB2	Rack C1 - 2	1/1	X

12.1.1 12

Report Date :10/21/2009 Operator : WESTCO Plan # :20091021001

Plan Description : 102109w1cn

a/ 10/21/09

ACCUTEST

Westco Analyzer Run Log

Date: 10/21/09
Time: 1:43
Analyst: CW

Sources	
Primary Standard:	GN09 0405 E
Secondary Standard:	GN 090114 A

Reagent	Reagent ID
Acid. Rhod. Mono Basic	247E-10-2
Cadmium Reagent	247E-7-2
Chloramine T	247E-10-3

CW

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	247E-11-1				
ICB					
DSP				LCS, refer to distillation log	
MB					
T39646-6S1	3			Lab, refer to distillation log	
-6D1	3				
-6	3				
-1	5				
-2	5				
-3	3				
-4	3				
-5	3				
CCV	247E-11-2				
CCB					
T39646-7	3				
-8	3				
-9	3				
-10	3				
-11	3				
T39672-1S1	4			Lab, refer to distillation log	
-1D1	4				
-1	4				
-2	4				
T39513-5	5				
CCV	247E-11-2				
CCB			P.49		

Form: GN059 Rev. 0 8/28/08 QAO

12.1.1 12

ACCUTEST

Westco Analyzer Run Log

Date: 10/21/09
Time: 1143
Analyst: CW

Sources	
Primary Standard:	GN090408E
Secondary Standard:	GN 0901 14A

Reagent	Reagent ID
Ami. Rhod. Mono Basic	247C-10-2
Color Reagent	247C-7-2
Chloramine T	247C-10-3

CW

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T39513-6	3				
-7	5				
-8	5				
T39526-1	4				
T39526-1	1				
T39422-1	10				
CW	247C-11-2				
CCD					

P.50

Form: GN059 Rev. 0 8/28/08 QAO

12.1.1 12

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/20/09 1450	CW	35K.4 / 9012	PB	6 ml 1	
			WB	2	120 ml 2M TC-6-1
			T39646-6S1	3	120 ml 2M TC-6-1 pH >12 S Neg Pos 3
			-6D1	4	>12 Neg 3
			-6	5	>12 Neg 3
			-1	6	>12 Pos 5
			-2	7	>12 Pos 5
			-3	8	>12 Pos 3
			-4	9	>12 Neg 3
			-5	10	>12 Pos 3
			-7	11	>12 Neg 3
			-8	12	>12 Neg 3
			-9	13	>12 Neg 3
			-10	14	>12 Pos 3
			-11	15	>12 Neg 3
			T39672-1S1	16	120 ml 2M TC-6-1 >12 Neg 4
			-1D1	17	>12 Neg 4
			-1	18	>12 Neg 4
			-2	19	>12 Neg 4
			T39513-5	20	>12 Neg 5
			-6	21	>12 Neg 3
			-7	22	>12 Neg 5
			-8	23	>12 Neg 5

Reagents for Distillation

Releasing Agent: 23TC-63-3

0.95N NaOH: 21TC-76-2

Sulfamic Acid GN090625A

Cadmium Carbonate GN080722A

Reagents for Analysis

P.14

Form: GN035-01
Rev. Date: 7/2/09

12.1.1 12

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/20/09	CV	335.4/9012	T395226-1	6 mL 24	pH >12 S⁻ Neg Bot 4
			T398605-1	25	>12 Neg 1
			T394222-1	26	>12 Neg 10
			MB/LCS	27	
			T395226-1 Dup	28	>12 Neg 4
			↓ -1 Dup Dup	29	>12 Neg 4
			T398605-1 Dup	30	>12 Neg 1
			T394222-1 Dup	31	>12 Neg 10
					CV 10/21/09

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 23TC-63-3

0.95N NaOH: 21TC-76-2

Sulfamic Acid GN090625A

Calcium Hypochlorite 23TC-55-2

Lactic Acid GN090216A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

Inorganic Data Review Checklist

Batch ID: GN18410 & GN18412

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T39646-1	T39646-11	
-2	T39672-1	
-3	-2	
-4	T39513-3	
-5	-6	
-6	-7	
-7	-8	
-8	T39526-1	
-9	T39865-1	
-10	T39422-1	

	Checked by 1st review	2nd review
2. **Sample run log- instrument log + prep log** (Check all standard lot, amount used, sample preparation and dilution information, date and signature)	[✓]	[ ]
3. **Instrument performance report(s) (ICB, BSP, CAL. STDS)** (Check method criteria and frequency)	[✓]	[ ]
4. **Calibration (ICV/CCV/CRDL/ICs) summary** (Check a-method criteria; b -frequency; c-printout)	[✓]	[ ]
5. **Blank** (Check contamination (must be below MDL) and frequency)	[✓]	[ ]
6. **Blank Spike/LCS** (Check recovery and footnote and frequency)	[✓]	[ ]
7. **MS/MSD/DUP** (Check recovery and footnote and frequency)	[✓]	[ ]
8. **Holding Time** (Check footnotes for outside HT and makes sure notify Manager)	[✓]	[ ]
9. **Analytical Comments** (Check for any discrepencies)	[ ]	[ ]

1ST Reviewer;(sign/Date) W 10/21/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01

12.1.1 12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0064	0.00		11:53:49 AM
R-4	RBL	0.0000	0.0116	0.00		11:54:14 AM
R-4	RBL	0.0000	0.0107	0.00		11:56:19 AM
R-4	RBL	0.0000	0.0064	0.00		11:56:43 AM
1	ICV	0.1954	0.2299	0.00		11:58:48 AM
2	ICB	-0.0012	-0.0013	0.00	INV,><,LL	11:59:13 AM
3	BSP GP7035/GP7036-B1	0.1959	0.2305	0.00		12:01:18 PM
4	MB GP7035/GP7036-MB1	-0.0010	-0.0011	0.00	INV,><,LL	12:01:43 PM
5	T39646-6S1 GP7035-S1	0.1895	0.2229	0.00		12:03:47 PM
6	T39646-6D1 GP7035-D1	0.0095	0.0114	0.00		12:04:12 PM
7	T39646-6	0.0115	0.0137	0.00		12:06:17 PM
8	T39646-1	0.0468	0.0552	0.00		12:06:42 PM
9	T39646-2	0.1706	0.2007	0.00		12:08:47 PM
10	T39646-3	0.2607	0.3066	0.00		12:09:12 PM
11	T39646-4	0.0035	0.0042	0.00		12:11:16 PM
12	T39646-5	0.3660	0.4304	0.00		12:11:41 PM
13	CCV	0.3002	0.3530	0.00		12:13:46 PM
14	CCB	-0.0038	-0.0044	0.00	INV,><,LL	12:14:11 PM
15	T39646-7	0.0319	0.0377	0.00		12:16:16 PM
16	T39646-8	0.0083	0.0100	0.00		12:16:40 PM
17	T39646-9	0.0059	0.0070	0.00		12:18:45 PM
18	T39646-10	0.0042	0.0052	0.00		12:19:10 PM
19	T39646-11	0.0068	0.0081	0.00		12:21:15 PM
20	T39672-1S1 GP7036-S1	0.1862	0.2191	0.00		12:21:40 PM
21	T39672-1D1 GP7036-D1	0.0002	0.0003	0.00	><	12:23:44 PM
22	T39672-1	-0.0014	-0.0015	0.00	INV,><,LL	12:24:09 PM
23	T39672-2	-0.0014	-0.0015	0.00	INV,><,LL	12:26:14 PM
24	T39513-5	0.2479	0.2916	0.00		12:26:39 PM
25	CCV1	0.2996	0.3523	0.00		12:28:43 PM
26	CCB1	-0.0027	-0.0031	0.00	INV,><,LL	12:29:08 PM
27	T39513-6	0.0213	0.0253	0.00		12:31:13 PM
28	T39513-7	0.0373	0.0440	0.00		12:31:38 PM
29	T39513-8 NR	0.6151	0.7231	0.00	><,LH	12:33:43 PM
30	T39526-1	0.0093	0.0112	0.00		12:34:08 PM
31	T39865-1	-0.0009	-0.0009	0.00	INV,><,LL	12:36:13 PM
32	T39422-1	0.0005	0.0007	0.00	><	12:36:38 PM

Report Date :10/21/2009 **Run Date :10/21/2009** **Operator : WESTCO** **Plan # :20091021001**

Plan Description : 102109w1cn 10/21/09

12.1.2 12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
33	CCV2	0.2979	0.3503	0.00		12:38:43 PM
34	CCB2	-0.0024	-0.0027	0.00	INV,><,LL	12:39:08 PM
29-[1/2]	T39513-8 UL	0.5546	0.3261	0.00	LH	12:51:23 PM

12.1.2

12

Report Date :10/21/2009 **Run Date :10/21/2009** **Operator : WESTCO** **Plan # :20091021001**

Plan Description : 102109w1cn CV 10/21/09

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0060	0.00		1:33:42 PM
R-4	RBL	0.0000	0.0064	0.00		1:34:07 PM
R-4	RBL	0.0000	0.0058	0.00		1:36:12 PM
R-4	RBL	0.0000	0.0062	0.00		1:36:37 PM
1	CCV	0.3022	0.3554	0.00		1:38:42 PM
2	CCB	0.0015	0.0019	0.00	><	1:39:07 PM
3-[1/2]	T39513-8	0.5986	0.3519	0.00		1:41:12 PM
4	CCV1	0.3073	0.3613	0.00		1:41:37 PM
5	CCB1	-0.0053	-0.0061	0.00	INV,><,LL	1:43:42 PM

12.1.2

12

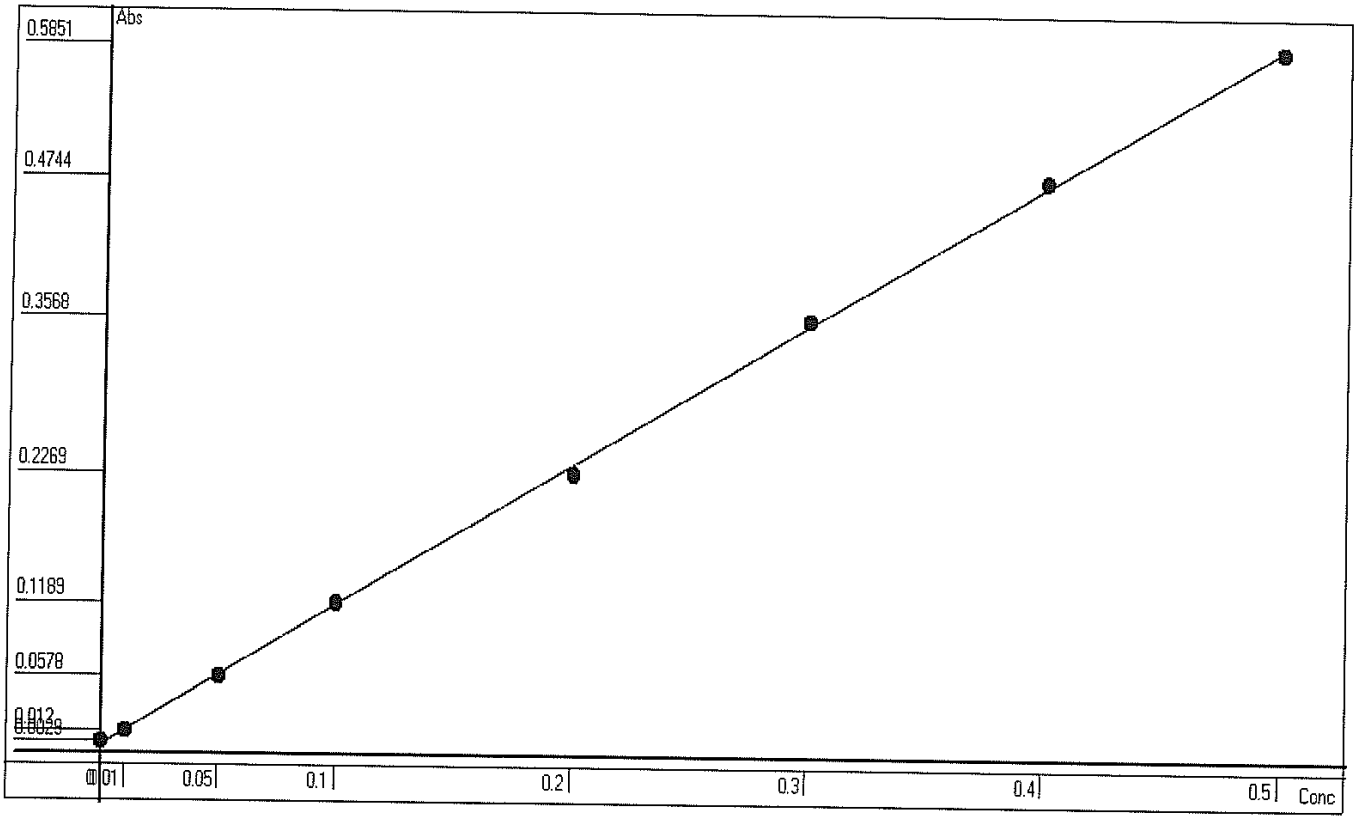
Report Date :10/21/2009 **Run Date :10/21/2009** **Operator : WESTCO** **Plan # :20091021002**

Plan Description : 102109w2cn @ 10/21/09

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091021001 Description : [102109w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	0.0029	0	0.0024	0
2	0.0120	0.01	0.0101	1
3	0.0578	0.05	0.0491	-2
4	0.1189	0.1	0.1011	1
5	0.2269	0.2	0.1929	-4
6	0.3568	0.3	0.3035	1
7	0.4744	0.4	0.4035	1
8	0.5851	0.5	0.4977	0

Conc= +0.8508*Abso -0.0001 R^2=0.9996

RBL

Report Date 10/21/2009 Run Date 6/8/2009

cd 10/21/09

12.1.2

12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
1	ICV	Rack A1 - 1	1/1	X
2	ICB	Rack A1 - 2	1/1	X
3	BSP	Rack A1 - 3	1/1	X
4	MB	Rack A1 - 4	1/1	X
5	T39646-6S1	Rack A1 - 5	1/1	X
6	T39646-6D1	Rack A1 - 6	1/1	X
7	T39646-6	Rack A1 - 7	1/1	X
8	T39646-1	Rack A1 - 8	1/1	X
9	T39646-2	Rack A1 - 9	1/1	X
10	T39646-3	Rack A1 - 10	1/1	X
11	T39646-4	Rack A1 - 11	1/1	X
12	T39646-5	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39646-7	Rack A1 - 15	1/1	X
16	T39646-8	Rack A1 - 16	1/1	X
17	T39646-9	Rack B1 - 1	1/1	X
18	T39646-10	Rack B1 - 2	1/1	X
19	T39646-11	Rack B1 - 3	1/1	X
20	T39672-1S1	Rack B1 - 4	1/1	X
21	T39672-1D1	Rack B1 - 5	1/1	X
22	T39672-1	Rack B1 - 6	1/1	X
23	T39672-2	Rack B1 - 7	1/1	X
24	T39513-5	Rack B1 - 8	1/1	X
25	CCV1	Rack B1 - 9	1/1	X
26	CCB1	Rack B1 - 10	1/1	X
27	T39513-6	Rack B1 - 11	1/1	X
28	T39513-7	Rack B1 - 12	1/1	X
29	T39513-8	Rack B1 - 13	1/1	X
30	T39526-1	Rack B1 - 14	1/1	X
31	T39865-1	Rack B1 - 15	1/1	X
32	T39422-1	Rack B1 - 16	1/1	X
33	CCV2	Rack C1 - 1	1/1	X

Report Date :10/21/2009 **Operator : WESTCO** **Plan # :20091021001**

Plan Description : 102109w1cn

CW 10/21/09

12.1.2 12

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
34	CCB2	Rack C1 - 2	1/1	X

12.1.2 12

Report Date :10/21/2009 Operator : WESTCO Plan # :20091021001

Plan Description : 102109w1cn

a/ 10/21/09

ACCUTEST

Westco Analyzer Run Log

Date: 10/21/09
Time: 1:43
Analyst: CW

Sources	
Primary Standard:	GN09 0405 E
Secondary Standard:	GN 090114 A

Reagent	Reagent ID
Acid. Rhod. Mono Basic	247E-10-2
Cadmium Reagent	247E-7-2
Chloramine T	247E-10-3

CW

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	247E-11-1				
ICB					
DSP				LCS, refer to distillation log	
MB					
T39646-6S1	3			Lab, refer to distillation log	
-6D1	3				
-6	3				
-1	5				
-2	5				
-3	3				
-4	3				
-5	3				
CCV	247E-11-2				
CCB					
T39646-7	3				
-8	3				
-9	3				
-10	3				
-11	3				
T39672-1S1	4			Lab, refer to distillation log	
-1D1	4				
-1	4				
-2	4				
T39513-5	5				
CCV	247E-11-2				
CCB			P.49		

Form: GN059 Rev. 0 8/28/08 QAO

12.1.2 12

ACCUTEST

Westco Analyzer Run Log

Date: 10/21/09
Time: 1140
Analyst: eV

Sources	
Primary Standard:	GN090405E
Secondary Standard:	GN090114A

Reagent	Reagent ID
Sod. Phen. Mono Basic	247C-10-2
Color Reagent	247C-7-2
Chloramine T	247C-10-3

eV

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T39513-6	3				
-7	5				
-8	5				
T39526-1	4				
T39565-1	1				
T39422-1	10				
CCV	247C-11-2				
CCB					

P.50

Form: GN059 Rev. 0 8/28/08 QAO

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/20/09 1450	CW	335.4 / 9012	PB	6 ml 1	
			WB	2	120 ml 2M TC-6-1
			T39646-6S1	3	120 ml 2M TC-6-1 pH >12 S Neg Pos 3
			-6D1	4	>12 Neg 3
			-6	5	>12 Neg 3
			-1	6	>12 Pos 5
			-2	7	>12 Pos 5
			-3	8	>12 Pos 3
			-4	9	>12 Neg 3
			-5	10	>12 Pos 3
			-7	11	>12 Neg 3
			-8	12	>12 Neg 3
			-9	13	>12 Neg 3
			-10	14	>12 Pos 3
			-11	15	>12 Neg 3
			T39672-1S1	16	120 ml 2M TC-6-1 >12 Neg 4
			-1D1	17	>12 Neg 4
			-1	18	>12 Neg 4
			-2	19	>12 Neg 4
			T39513-5	20	>12 Neg 5
			-6	21	>12 Neg 3
			-7	22	>12 Neg 5
			-8	23	>12 Neg 5

Reagents for Distillation

Releasing Agent: 23TC-63-3

0.95N NaOH: 21TC-76-2

Sulfamic Acid GN090625A

Cadmium Carbonate GN080722A

Reagents for Analysis

P.14

Form: GN035-01
Rev. Date: 7/2/09

12.1.2 12

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/20/09	CV	335.4/9012	T395226-1	6 mL 24	pH >12 S⁻ Neg Bot 4
			T398605-1	25	>12 Neg 1
			T394222-1	26	>12 Neg 10
			MB/LCS	27	
			T395226-1 Dup	28	>12 Neg 4
			↓ -1 Dup Dup	29	>12 Neg 4
			T398605-1 Dup	30	>12 Neg 1
			T394222-1 Dup	31	>12 Neg 10
					CV 10/21/09

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 23TC-63-3

0.95N NaOH: 21TC-76-2

Sulfamic Acid GN090625A

Calcium Hypochlorite 23TC-55-2

Lactic Acid GN090216A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

Inorganic Data Review Checklist

Batch ID: GN18410 & GN18412

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T39646-1	T39646-11	
-2	T39672-1	
-3	-2	
-4	T39513-3	
-5	-6	
-6	-7	
-7	-8	
-8	T39526-1	
-9	T39865-1	
-10	T39422-1	

	Checked by 1st review	2nd review
2. **Sample run log- instrument log + prep log** (Check all standard lot, amount used, sample preparation and dilution information, date and signature)	[✓]	[ ]
3. **Instrument performance report(s) (ICB, BSP, CAL. STDS)** (Check method criteria and frequency)	[✓]	[ ]
4. **Calibration (ICV/CCV/CRDL/ICs) summary** (Check a-method criteria; b -frequency; c-printout)	[✓]	[ ]
5. **Blank** (Check contamination (must be below MDL) and frequency)	[✓]	[ ]
6. **Blank Spike/LCS** (Check recovery and footnote and frequency)	[✓]	[ ]
7. **MS/MSD/DUP** (Check recovery and footnote and frequency)	[✓]	[ ]
8. **Holding Time** (Check footnotes for outside HT and makes sure notify Manager)	[✓]	[ ]
9. **Analytical Comments** (Check for any discrepencies)	[ ]	[ ]

1ST Reviewer;(sign/Date) W 10/21/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01

12.1.2 12