Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/15/10

Technical Report for

ERM Salt Lake City

Vertellus-Provo

Accutest Job Number: T46705

Sampling Date: 01/28/10

Report to:

ERM
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Salt Lake City, UT 84101
Kristopher.Benson@erm.com

ATTN: Mr. Kristopher Benson

Total number of pages in report: **1027**

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

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest Laboratories

Sample Summary

ERM Salt Lake City

Vertellus-Provo

Job No: T46705

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T46705-1	01/28/10	08:40	KB	02/01/10	AQ	Ground Water	SW-3
T46705-2	01/28/10	09:20	KB	02/01/10	AQ	Ground Water	SW-4
T46705-3	01/28/10	10:40	KB	02/01/10	AQ	Ground Water	SW-5
T46705-4	01/28/10	11:15	KB	02/01/10	AQ	Ground Water	SW-2
T46705-5	01/28/10	12:30	KB	02/01/10	AQ	Ground Water	SW-6
T46705-6	01/28/10	13:00	KB	02/01/10	SO	Soil	TDM-1
T46705-7	01/28/10	14:00	KB	02/01/10	SO	Soil	TDM-2
T46705-8	01/28/10	00:00	KB	02/01/10	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	ERM Salt Lake City	**Job No**	T46705
Site:	Vertellus-Provo	**Report Date**	2/12/2010 5:55:08 PM

7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 01/28/2010 and were received at Accutest on 02/01/2010 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of T46705. 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:** VX438

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T46705-1MS, T46705-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone, Chloroform, Methyl ethyl ketone, Methylene chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acetone, Methyl ethyl ketone are outside control limits. Probable cause due to matrix interference.
- Sample(s) T46705-1, T46705-4, T46705-5, T46705-8 have surrogates outside control limits. The sample is non-detect for all target compounds associated with this surrogate.

Matrix AQ **Batch ID:** VX439

- All samples were analyzed within the recommended method holding time.
- Sample(s) T47048-12MS, T47048-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Benzene are outside control limits. Due to high level in sample relative to spike amount.
- RPD(s) for MSD for Methyl ethyl ketone are outside control limits for sample T47048-12MSD.
- VX439-MB for Acetone: Suspected laboratory contaminant.

Matrix SO **Batch ID:** VY2412

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T46705-7MS, T46705-7MSD were used as the QC samples indicated.
- T46705-6: Dilution required due to high concentrations of non-target analytes.
- T46705-7: Dilution required due to high concentrations of non-target analytes.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	**Batch ID:** OP13976

- 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) OP13984-MSD, T46705-7 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	**Batch ID:** OP13984

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) T46705-6MS, T46705-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2-Methylphenol, 3&4-Methylphenol are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Sample(s) OP13984-MSD, T46705-7 have surrogates outside control limits.
- T46705-7: Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by reanalysis.
- T46705-6: Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by associated MS/MSD samples.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	**Batch ID:** OP13977

- 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.
- T46705-2: Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Wet Chemistry By Method EPA 335.4

Matrix AQ	**Batch ID:** GP7902

- 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) T46705-1DUP, T46705-1MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SM 2540 G

Matrix SO	**Batch ID:** GN20530

- Sample(s) T46266-1DUP were used as the QC samples for Solids, Percent.

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:	SW-3		
Lab Sample ID:	T46705-1	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058897.D	1	02/07/10	JL	n/a	n/a	VX438
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	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	122% [a]		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	93%		80-133%

(a) Outside control limits. The sample is non-detect for all 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:	SW-3		
Lab Sample ID:	T46705-1	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	P08487.D	1	02/03/10	GJ	02/02/10	OP13976	EP403
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	10.4	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	13.6	5.0	0.83	ug/l	
	3&4-Methylphenol	3.2	5.0	1.6	ug/l	J
108-95-2	Phenol	4.9	5.0	0.75	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-66%
4165-62-2	Phenol-d5	36%		10-53%
118-79-6	2,4,6-Tribromophenol	85%		32-128%
4165-60-0	Nitrobenzene-d5	69%		29-115%
321-60-8	2-Fluorobiphenyl	74%		34-113%
1718-51-0	Terphenyl-d14	81%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
115-18-4	3-Buten-2-ol, 2-methyl-	2.37	11	ug/l	JN
108-99-6	Pyridine, 3-methyl-	3.99	5.7	ug/l	JN
108-47-4	Pyridine, 2,4-dimethyl-	4.52	15	ug/l	JN
1122-69-6	Pyridine, 2-ethyl-6-methyl-	4.76	4	ug/l	JN
583-58-4	Pyridine, 3,4-dimethyl-	5.10	6.4	ug/l	JN
496-11-7	Indane	5.32	5.8	ug/l	JN
533-37-9	2,3-Cyclopentenopyridine	5.88	8.4	ug/l	JN
108-68-9	Phenol, 3,5-dimethyl-	6.25	5.2	ug/l	JN
91-63-4	Quinoline, 2-methyl-	7.47	44	ug/l	JN
1721-93-3	Isoquinoline, 1-methyl-	7.76	9.2	ug/l	JN
877-43-0	Quinoline, 2,6-dimethyl-	8.29	4.2	ug/l	JN
1198-37-4	Quinoline, 2,4-dimethyl-	8.66	11	ug/l	JN
1008-89-5	Pyridine, 2-phenyl-	9.69	11	ug/l	JN
2217-43-8	2-Naphthalenamine, 5,6,7,8-tetrahydro-	9.80	11	ug/l	JN
635-46-1	Quinoline, 1,2,3,4-tetrahydro-	10.43	7	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:	SW-3		
Lab Sample ID:	T46705-1	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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
635-46-1	Quinoline, 1,2,3,4-tetrahydro-	10.85	12	ug/l	JN
491-30-5	1(2H)-Isoquinolinone	11.33	50	ug/l	JN
2721-59-7	2(1H)-Quinolinone, 3-methyl-	11.58	6.1	ug/l	JN
606-43-9	2(1H)-Quinolinone, 1-methyl-	12.34	8.1	ug/l	JN
19006-81-6	2(1H)-Pyridinone, 4-phenyl-	14.24	4.4	ug/l	JN
	Total TIC, Semi-Volatile		239.5	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:	SW-3		
Lab Sample ID:	T46705-1	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	H36835.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
Run #2	H36830.D	10	02/03/10	SC	02/02/10	OP13977	EH1975

	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	0.042 U	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	0.041 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	0.064	0.20	0.046	ug/l	J
86-73-7	Fluorene	0.25	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	21.8 [a]	2.0	0.75	ug/l	
85-01-8	Phenanthrene	0.32	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	35% [b]	42% [b]	17-131%
321-60-8	2-Fluorobiphenyl	30% [b]	58% [b]	15-137%
1718-51-0	Terphenyl-d14	76% [b]	71% [b]	10-160%

(a) Result is from Run# 2
(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:	SW-3		
Lab Sample ID:	T46705-1	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
		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	02/04/10 16:49	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:	SW-4		
Lab Sample ID:	T46705-2	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058930.D	1	02/08/10	JL	n/a	n/a	VX439
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	17.8	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	1.0	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	4.3	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.8	6.0	1.7	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	97%		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:	SW-4		
Lab Sample ID:	T46705-2	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	P08490.D	1	02/03/10	GJ	02/02/10	OP13976	EP403
Run #2	P08493.D	10	02/04/10	GJ	02/02/10	OP13976	EP403

	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	9.2	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	10.3	5.0	0.83	ug/l	
	3&4-Methylphenol	384 [a]	50	16	ug/l	
108-95-2	Phenol	1.7	5.0	0.75	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%	34%	10-66%
4165-62-2	Phenol-d5	32%	29%	10-53%
118-79-6	2,4,6-Tribromophenol	94%	87%	32-128%
4165-60-0	Nitrobenzene-d5	67%	67%	29-115%
321-60-8	2-Fluorobiphenyl	65%	81%	34-113%
1718-51-0	Terphenyl-d14	92%	94%	12-145%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
60-35-5	Acetamide	3.51	59	ug/l	JN
2787-43-1	1,3-Pentadiene, 3-methyl-, (E)-	4.58	20	ug/l	JN
624-65-7	1-Propyne, 3-chloro-	5.07	19	ug/l	JN
6640-27-3	Phenol, 2-chloro-4-methyl-	5.79	75	ug/l	JN
123-07-9	Phenol, 4-ethyl-	6.24	58	ug/l	JN
51863-60-6	3',5'-Dihydroxyacetophenone	6.65	18	ug/l	JN
91-15-6	1,2-Benzenedicarbonitrile	7.05	21	ug/l	JN
13481-70-4	Phenol, 2,6-dichloro-3-methyl-	7.47	67	ug/l	JN
13692-14-3	Benzenemethanol, 2,4-dichloro-.alpha.-(c	8.28	17	ug/l	JN
70302-78-2	1-Chloro-2-methylenecyclopropane	8.38	120	ug/l	JN
621-88-5	Phenoxyacetamide	8.58	20	ug/l	JN
74313-13-6	Benzene, 1-methoxy-3,5-dimethyl-, dichlo	8.70	46	ug/l	JN
643-14-1	o-Cresol, 3,4,6-trichloro-	9.04	68	ug/l	JN
90-60-8	Benzaldehyde, 3,5-dichloro-2-hydroxy-	9.20	270	ug/l	JN
1683-75-6	5-Fluoro-4-chloro-2-aminopyrimidine	9.56	20	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:	SW-4		
Lab Sample ID:	T46705-2	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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
14299-54-8	1-(2,4,5-Trichlorophenyl)ethanol	9.60	25	ug/l	JN
1683-75-6	5-Fluoro-4-chloro-2-aminopyrimidine	9.85	47	ug/l	JN
824-69-1	1,4-Benzenediol, 2,5-dichloro-	10.07	230	ug/l	JN
23719-22-4	[1,1'-Biphenyl-4-ol], 2-chloro-	10.89	37	ug/l	JN
546-24-7	3(4H)-Dibenzofuranone, 4a,9b-dihydro-8,9	12.12	68	ug/l	JN
	Total TIC, Semi-Volatile		1305	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:	SW-4		
Lab Sample ID:	T46705-2	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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]	H36838.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
Run #2 [a]	H36831.D	10	02/03/10	SC	02/02/10	OP13977	EH1975

	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	0.042 U	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	0.041 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	0.45	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	1.3	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	40% [b]	37% [b]	17-131%
321-60-8	2-Fluorobiphenyl	.8% [c]	18% [b]	15-137%
1718-51-0	Terphenyl-d14	205% [c]	73% [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.
(c) Recovery was adjusted for 10x spiking. Outside 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:	SW-4		
Lab Sample ID:	T46705-2	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.029	0.010	0.0040	mg/l	1	02/04/10 16:49	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:	SW-5		
Lab Sample ID:	T46705-3	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058902.D	1	02/07/10	JL	n/a	n/a	VX438
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	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	121%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	96%		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:	SW-5		
Lab Sample ID:	T46705-3	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	P08491.D	1	02/04/10	GJ	02/02/10	OP13976	EP403
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	1.3 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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-66%
4165-62-2	Phenol-d5	33%		10-53%
118-79-6	2,4,6-Tribromophenol	79%		32-128%
4165-60-0	Nitrobenzene-d5	68%		29-115%
321-60-8	2-Fluorobiphenyl	75%		34-113%
1718-51-0	Terphenyl-d14	76%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
814-78-8	3-Buten-2-one, 3-methyl-	2.29	7.6	ug/l	JN
115-18-4	3-Buten-2-ol, 2-methyl-	2.38	15	ug/l	JN
558-37-2	1-Butene, 3,3-dimethyl-	3.41	17	ug/l	JN
674-76-0	2-Pentene, 4-methyl-, (E)-	3.69	15	ug/l	JN
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.03	11	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol diisobut	9.91	6.1	ug/l	JN
	Total TIC, Semi-Volatile		71.7	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:	SW-5		
Lab Sample ID:	T46705-3	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	H36836.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
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	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.063	0.20	0.054	ug/l	J
56-55-3	Benzo(a)anthracene	0.37	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.48	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.71	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.23	0.20	0.056	ug/l	
218-01-9	Chrysene	0.41	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	0.63	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	0.37	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.17	0.20	0.075	ug/l	J
129-00-0	Pyrene	0.69	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	48% [a]		17-131%
321-60-8	2-Fluorobiphenyl	47% [a]		15-137%
1718-51-0	Terphenyl-d14	75% [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:	SW-5		
Lab Sample ID:	T46705-3	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0074 B	0.010	0.0040	mg/l	1	02/04/10 16:51	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:	SW-2		
Lab Sample ID:	T46705-4	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058903.D	1	02/07/10	JL	n/a	n/a	VX438
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	110%		79-122%
17060-07-0	1,2-Dichloroethane-D4	123% [a]		75-121%
2037-26-5	Toluene-D8	105%		87-119%
460-00-4	4-Bromofluorobenzene	93%		80-133%

(a) Outside control limits. The sample is non-detect for all target compounds associated with this surrogate.

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:	SW-2		
Lab Sample ID:	T46705-4	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	P08488.D	1	02/03/10	GJ	02/02/10	OP13976	EP403
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	1.3 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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-66%
4165-62-2	Phenol-d5	27%		10-53%
118-79-6	2,4,6-Tribromophenol	67%		32-128%
4165-60-0	Nitrobenzene-d5	57%		29-115%
321-60-8	2-Fluorobiphenyl	57%		34-113%
1718-51-0	Terphenyl-d14	85%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
19354-27-9	Furan, tetrahydro-2-(methoxymethyl)-	2.37	9.1	ug/l	JN
	Total TIC, Semi-Volatile		9.1	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:	SW-2		
Lab Sample ID:	T46705-4	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	H36833.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
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	0.042 U	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	0.041 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	0.046 U	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	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	41% [a]		17-131%
321-60-8	2-Fluorobiphenyl	28% [a]		15-137%
1718-51-0	Terphenyl-d14	67% [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:	SW-2		
Lab Sample ID:	T46705-4	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
		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	02/04/10 16:52	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:	SW-6		
Lab Sample ID:	T46705-5	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058904.D	1	02/07/10	JL	n/a	n/a	VX438
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	113%		79-122%
17060-07-0	1,2-Dichloroethane-D4	125% [a]		75-121%
2037-26-5	Toluene-D8	103%		87-119%
460-00-4	4-Bromofluorobenzene	93%		80-133%

(a) Outside control limits. The sample is non-detect for all target compounds associated with this surrogate.

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:	SW-6		
Lab Sample ID:	T46705-5	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	P08489.D	1	02/03/10	GJ	02/02/10	OP13976	EP403
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	1.3 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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-66%
4165-62-2	Phenol-d5	28%		10-53%
118-79-6	2,4,6-Tribromophenol	68%		32-128%
4165-60-0	Nitrobenzene-d5	60%		29-115%
321-60-8	2-Fluorobiphenyl	62%		34-113%
1718-51-0	Terphenyl-d14	75%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
19354-27-9	Furan, tetrahydro-2-(methoxymethyl)-	2.35	8.3	ug/l	JN
	Total TIC, Semi-Volatile		8.3	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:	SW-6		
Lab Sample ID:	T46705-5	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
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	H36834.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
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	0.042 U	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	0.041 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	0.046 U	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	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	35% [a]		17-131%
321-60-8	2-Fluorobiphenyl	35% [a]		15-137%
1718-51-0	Terphenyl-d14	65% [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:	SW-6		
Lab Sample ID:	T46705-5	**Date Sampled:**	01/28/10
Matrix:	AQ - Ground Water	**Date Received:**	02/01/10
		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	02/04/10 16:54	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:	TDM-1		
Lab Sample ID:	T46705-6	**Date Sampled:**	01/28/10
Matrix:	SO - Soil	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	94.9
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y0037692.D	2	02/08/10	JL	n/a	n/a	VY2412
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.09 g	5.0 ml	100 ul
Run #2			

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	632	540	76	ug/kg	
67-66-3	Chloroform	66 U	540	66	ug/kg	
78-93-3	Methyl ethyl ketone	630 U	5400	630	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-121%
2037-26-5	Toluene-D8	116%		76-132%
460-00-4	4-Bromofluorobenzene	98%		73-165%
17060-07-0	1,2-Dichloroethane-D4	87%		57-122%

(a) Dilution required due to high concentrations of non-target analytes.

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:	TDM-1		
Lab Sample ID:	T46705-6	**Date Sampled:**	01/28/10
Matrix:	SO - Soil	**Date Received:**	02/01/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.9
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P08516.D	4	02/04/10	GJ	02/03/10	OP13984	EP404
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	20.0 ml
Run #2		

82707 - Acid Extractable Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	17500	14000	2600	ug/kg	
	3&4-Methylphenol	59000	14000	7700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		26-124%
4165-62-2	Phenol-d5	55%		19-106%
118-79-6	2,4,6-Tribromophenol	29%		18-129%
4165-60-0	Nitrobenzene-d5	64%		18-104%
321-60-8	2-Fluorobiphenyl	74%		21-114%
1718-51-0	Terphenyl-d14	74%		24-149%

(a) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by associated MS/MSD samples.

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:	TDM-2		
Lab Sample ID:	T46705-7	**Date Sampled:**	01/28/10
Matrix:	SO - Soil	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	98.6
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y0037689.D	1	02/08/10	JL	n/a	n/a	VY2412
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.46 g	5.0 ml	100 ul
Run #2			

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	63.6	240	33	ug/kg	J
67-66-3	Chloroform	29 U	240	29	ug/kg	
78-93-3	Methyl ethyl ketone	270 U	2400	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-121%
2037-26-5	Toluene-D8	108%		76-132%
460-00-4	4-Bromofluorobenzene	102%		73-165%
17060-07-0	1,2-Dichloroethane-D4	87%		57-122%

(a) Dilution required due to high concentrations of non-target analytes.

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:	TDM-2		
Lab Sample ID:	T46705-7	**Date Sampled:**	01/28/10
Matrix:	SO - Soil	**Date Received:**	02/01/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	98.6
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P08519.D	4	02/04/10	GJ	02/03/10	OP13984	EP404
Run #2 [b]	P08495.D	40	02/04/10	GJ	02/03/10	OP13984	EP403

	Initial Weight	Final Volume
Run #1	30.2 g	20.0 ml
Run #2	30.2 g	20.0 ml

82707 - Acid Extractable Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	2500 U	13000	2500	ug/kg	
	3&4-Methylphenol	7500 U	13000	7500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	11% [c]	0% [c]	26-124%
4165-62-2	Phenol-d5	10% [c]	0% [c]	19-106%
118-79-6	2,4,6-Tribromophenol	0% [c]	0% [c]	18-129%

(a) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by reanalysis.
(b) Elevated reporting limits are not within advisory limits due to matrix interference, final volume of 20ml.
(c) Outside control limits due to dilution.

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:	TRIP BLANK		
Lab Sample ID:	T46705-8	**Date Sampled:**	01/28/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/01/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0058910.D	1	02/07/10	JL	n/a	n/a	VX438
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	1.5	5.0	0.41	ug/l	J
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	109%		79-122%
17060-07-0	1,2-Dichloroethane-D4	122% [a]		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	96%		80-133%

(a) Outside control limits. The sample is non-detect for all target compounds associated with this surrogate.

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 #: T46705

Client Reporting Information

Company Name: ERM
Street Address: 102 West 500 South, Suite 650
City: Salt Lake City State: UT Zip: 84101
Project Contact: Kristopher Benson E-mail:
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

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	TSP	NaHSO4	ENCORE	OTHER	Volatile/8260(special list)	SVOC and SIMPAH/8270 (8270 special list + PAHSIM special list)	CJ	Benzene, chloroform 2-butanone/8260	Total Cresols/8270	LAB USE ONLY
1	SW-3	1/28/10	8:40	KB	SW	6	3	3		1		2							X	X	X			
2	SW-4	1/28/10	9:20		SW	6	3			1		2							X	X	X			
3	SW-5	1/28/10	10:40		SW	6	3			1		2							X	X	X			
4	SW-2	1/28/10	11:15		SW	6	3			1		2							X	X	X			
5	SW-6	1/28/10	12:30		SW	6	3			1		2							X	X	X			
6	TDM-1	1/28/10	13:00		SOL	4						4										X	X	
7	TDM-2	1/28/10	14:00	✓	SOL	4						4										X	X	
8	Trip Blank																		X					

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

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

*Please composite SOL samples prior to analysis. Call with questions.

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	1/29/10 15:40	1	2	1/29/10 9:00	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. 2.4°C, 0.6°C

T46705: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T46705 Client: ERM Date/Time Received: 2-1-10 9:00

# of Coolers Received: 2 Thermometer #: IR-1 Temperature Adjustment Factor: +.4°C

Cooler Temps: #1: 2.4°C #2: 0.6°C #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: [signature] 2-1-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 2/1/10

CORRECTIVE ACTIONS

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

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

Client Instructions:

I:\mwalker\form\samplemanagemenl

SAMPLE RECEIPT LOG

JOB #: T46705 DATE/TIME RECEIVED: 2-1-10 900

CLIENT: Elm INITIALS: EC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	SW-3	1-29-10 810	W	LAG	1-2	1-AA	(1) 2 3 4 5 6 7 8	<2 >12
2					P125	3	3-C	1 2 3 4 (5) 6 7 8	(<2) >12
"					40	4-6	VR	1 (2) 3 4 5 6 7 8	<2 >12
1	2	SW-4	920	W	LAG	1-2	1-AA	(1) 2 3 4 5 6 7 8	<2 >12
2					P125	3	3C	1 2 3 4 (5) 6 7 8	(<2) >12
"					40	4-6	VR	1 (2) 3 4 5 6 7 8	<2 >12
1	3	SW-5	1010		LAG	1-2	1-AA	(1) 2 3 4 5 6 7 8	<2 >12
2					P125	3	3C	1 2 3 4 (5) 6 7 8	(<2) >12
"					40	4-6	VR	1 (2) 3 4 5 6 7 8	<2 >12
1	4	SW-2	1115		LAG	1-2	1-AA	(1) 2 3 4 5 6 7 8	<2 >12
2					P125	3	3C	1 2 3 4 (5) 6 7 8	(<2) >12
"					40	4-6	VR	1 (2) 3 4 5 6 7 8	<2 >12
1	5	SW-6	1230		LAG	1-2	1-AA	(1) 2 3 4 5 6 7 8	<2 >12
2					P125	3	3C	1 2 3 4 (5) 6 7 8	(<2) >12
"					40	4-6	VR	1 (2) 3 4 5 6 7 8	<2 >12
"	6	TDM-1	1320	Solid	4oz	1-4	VR	(1) 2 3 4 5 6 7 8	<2 >12
"	7	TDM-2	1400	Solid	4oz	1-4	VR	(1) 2 3 4 5 6 7 8	<2 >12
2	8	Trip Blank (W)	— —	WTB	40ml	1-2	VR	1 (2) 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
		EC	2-1-10					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

Rev 8/13/01 ewp

4.1

4

T46705: Chain of Custody

Page 3 of 3

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: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX438-MB	X0058892.D	1	02/07/10	JL	n/a	n/a	VX438

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

T46705-1, T46705-3, T46705-4, T46705-5, T46705-8

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	110%	79-122%
17060-07-0	1,2-Dichloroethane-D4	120%	75-121%
2037-26-5	Toluene-D8	104%	87-119%
460-00-4	4-Bromofluorobenzene	96%	80-133%

Method Blank Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2412-MB	Y0037680.D	1	02/08/10	JL	n/a	n/a	VY2412

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

T46705-6, T46705-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.70	ug/kg	
67-66-3	Chloroform	ND	5.0	0.61	ug/kg	
78-93-3	Methyl ethyl ketone	ND	50	5.8	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	70-121%
2037-26-5	Toluene-D8	106%	76-132%
460-00-4	4-Bromofluorobenzene	93%	73-165%
17060-07-0	1,2-Dichloroethane-D4	94%	57-122%

Method Blank Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX439-MB	X0058929.D	1	02/08/10	JL	n/a	n/a	VX439

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

T46705-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	5.3	50	4.7	ug/l	J
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	98%	75-121%
2037-26-5	Toluene-D8	110%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

(a) Suspected laboratory contaminant.

Blank Spike Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX438-BS	X0058893.D	1	02/07/10	JL	n/a	n/a	VX438

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

T46705-1, T46705-3, T46705-4, T46705-5, T46705-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	149	119	62-124
71-43-2	Benzene	25	23.4	94	76-118
67-66-3	Chloroform	25	25.2	101	75-117
75-15-0	Carbon disulfide	25	19.1	76	57-126
100-41-4	Ethylbenzene	25	21.3	85	75-112
74-95-3	Methylene bromide	25	25.6	102	68-114
75-09-2	Methylene chloride	25	26.0	104	70-113
78-93-3	Methyl ethyl ketone	125	118	94	62-117
108-88-3	Toluene	25	19.3	77	77-114
1330-20-7	Xylene (total)	75	57.2	76	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	79-122%
17060-07-0	1,2-Dichloroethane-D4	117%	75-121%
2037-26-5	Toluene-D8	106%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

Blank Spike Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2412-BS	Y0037678.D	1	02/08/10	JL	n/a	n/a	VY2412

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

T46705-6, T46705-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	47.4	95	70-114
67-66-3	Chloroform	50	48.8	98	74-115
78-93-3	Methyl ethyl ketone	250	227	91	65-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	70-121%
2037-26-5	Toluene-D8	106%	76-132%
460-00-4	4-Bromofluorobenzene	92%	73-165%
17060-07-0	1,2-Dichloroethane-D4	93%	57-122%

Blank Spike Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX439-BS	X0058927.D	1	02/08/10	JL	n/a	n/a	VX439

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

T46705-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	111	89	62-124
71-43-2	Benzene	25	26.7	107	76-118
67-66-3	Chloroform	25	23.8	95	75-117
75-15-0	Carbon disulfide	25	26.5	106	57-126
100-41-4	Ethylbenzene	25	26.4	106	75-112
74-95-3	Methylene bromide	25	24.2	97	68-114
75-09-2	Methylene chloride	25	23.6	94	70-113
78-93-3	Methyl ethyl ketone	125	98.4	79	62-117
108-88-3	Toluene	25	25.8	103	77-114
1330-20-7	Xylene (total)	75	74.3	99	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	92%	75-121%
2037-26-5	Toluene-D8	112%	87-119%
460-00-4	4-Bromofluorobenzene	99%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46705-1MS	X0058898.D	1	02/07/10	JL	n/a	n/a	VX438
T46705-1MSD	X0058899.D	1	02/07/10	JL	n/a	n/a	VX438
T46705-1	X0058897.D	1	02/07/10	JL	n/a	n/a	VX438

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

T46705-1, T46705-3, T46705-4, T46705-5, T46705-8

CAS No.	Compound	T46705-1 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	159	127*	159	127*	0	62-124/21
71-43-2	Benzene	2.0 U		25	28.5	114	27.5	110	4	76-118/16
67-66-3	Chloroform	2.0 U		25	29.8	119*	28.4	114	5	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	25.8	103	25.4	102	2	57-126/13
100-41-4	Ethylbenzene	2.0 U		25	26.7	107	26.4	106	1	75-112/12
74-95-3	Methylene bromide	2.0 U		25	28.4	114	27.7	111	2	68-114/13
75-09-2	Methylene chloride	5.0 U		25	29.1	116*	28.3	113	3	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	157	126*	158	126*	1	62-117/21
108-88-3	Toluene	2.0 U		25	23.5	94	23.5	94	0	77-114/12
1330-20-7	Xylene (total)	6.0 U		75	73.4	98	72.8	97	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T46705-1	Limits
1868-53-7	Dibromofluoromethane	110%	109%	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	121%	117%	122%* [a]	75-121%
2037-26-5	Toluene-D8	106%	107%	104%	87-119%
460-00-4	4-Bromofluorobenzene	94%	96%	93%	80-133%

(a) Outside control limits. The sample is non-detect for all target compounds associated with this surrogate.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T46705-7MS	Y0037690.D	1	02/08/10	JL	n/a	n/a	VY2412
T46705-7MSD	Y0037691.D	1	02/08/10	JL	n/a	n/a	VY2412
T46705-7 [a]	Y0037689.D	1	02/08/10	JL	n/a	n/a	VY2412

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

T46705-6, T46705-7

CAS No.	Compound	T46705-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	63.6	J	2360	2290	94	2140	88	7	70-114/38
67-66-3	Chloroform	240 U		2360	2290	97	2190	93	4	74-115/35
78-93-3	Methyl ethyl ketone	2400 U		11800	8550	73	9080	77	6	65-129/36

CAS No.	Surrogate Recoveries	MS	MSD	T46705-7	Limits
1868-53-7	Dibromofluoromethane	105%	106%	107%	70-121%
2037-26-5	Toluene-D8	111%	112%	108%	76-132%
460-00-4	4-Bromofluorobenzene	97%	101%	102%	73-165%
17060-07-0	1,2-Dichloroethane-D4	88%	89%	87%	57-122%

(a) Dilution required due to high concentrations of non-target analytes.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T47048-12MS	X0058932.D	1	02/08/10	JL	n/a	n/a	VX439
T47048-12MSD	X0058933.D	1	02/08/10	JL	n/a	n/a	VX439
T47048-12	X0058931.D	1	02/08/10	JL	n/a	n/a	VX439
T47048-12	X0058934.D	10	02/08/10	JL	n/a	n/a	VX439

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

T46705-2

CAS No.	Compound	T47048-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	22.0	J	125	129	86	109	70	17	62-124/21
71-43-2	Benzene	262 [b]		25	332	280* [a]	318	224* [a]	4	76-118/16
67-66-3	Chloroform	ND		25	24.4	98	23.7	95	3	75-117/12
75-15-0	Carbon disulfide	1.4	J	25	28.0	106	28.0	106	0	57-126/13
100-41-4	Ethylbenzene	9.7		25	37.1	110	36.3	106	2	75-112/12
74-95-3	Methylene bromide	ND		25	25.3	101	23.9	96	6	68-114/13
75-09-2	Methylene chloride	ND		25	23.1	92	22.7	91	2	70-113/13
78-93-3	Methyl ethyl ketone	5.0	J	125	139	107	91.4	69	41*	62-117/21
108-88-3	Toluene	ND		25	26.5	106	26.0	104	2	77-114/12
1330-20-7	Xylene (total)	ND		75	75.9	101	74.1	99	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T47048-12	T47048-12	Limits
1868-53-7	Dibromofluoromethane	98%	97%	104%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	87%	106%	87%	75-121%
2037-26-5	Toluene-D8	110%	109%	105%	109%	87-119%
460-00-4	4-Bromofluorobenzene	104%	103%	102%	98%	80-133%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

Instrument Performance Check (BFB)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-BFB
Lab File ID: X0058808.D
Instrument ID: GCMSX
Injection Date: 02/04/10
Injection Time: 13:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2752	17.3		Pass
75	30.0 - 60.0% of mass 95	7248	45.4		Pass
95	Base peak, 100% relative abundance	15949	100.0		Pass
96	5.0 - 9.0% of mass 95	1175	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	13536	84.9		Pass
175	5.0 - 9.0% of mass 174	960	6.0	(7.1) [a]	Pass
176	95.0 - 101.0% of mass 174	13094	82.1	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	906	5.7	(6.9) [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
VX435-IC435	X0058809.D	02/04/10	14:26	00:30	Initial cal 2
VX435-IC435	X0058810.D	02/04/10	14:55	00:59	Initial cal 5
VX435-IC435	X0058811.D	02/04/10	15:24	01:28	Initial cal 20
VX435-ICC435	X0058812.D	02/04/10	15:53	01:57	Initial cal 40
VX435-IC435	X0058813.D	02/04/10	16:21	02:25	Initial cal 100
VX435-IC435	X0058814.D	02/04/10	16:50	02:54	Initial cal 200
VX435-ICV435	X0058816.D	02/04/10	17:47	03:51	Initial cal verification 40
VX435-BS	X0058817.D	02/04/10	18:15	04:19	Blank Spike
VX435-MB	X0058819.D	02/04/10	19:12	05:16	Method Blank
ZZZZZZ	X0058820.D	02/04/10	19:41	05:45	(unrelated sample)
T46388-1	X0058821.D	02/04/10	20:09	06:13	(used for QC only; not part of job T46705)
T46388-1MS	X0058822.D	02/04/10	20:38	06:42	Matrix Spike
T46388-1MSD	X0058823.D	02/04/10	21:07	07:11	Matrix Spike Duplicate
ZZZZZZ	X0058825.D	02/04/10	22:04	08:08	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX438-BFB
Lab File ID: X0058886.D
Instrument ID: GCMSX
Injection Date: 02/07/10
Injection Time: 10:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4030	18.4		Pass
75	30.0 - 60.0% of mass 95	11177	51.1		Pass
95	Base peak, 100% relative abundance	21861	100.0		Pass
96	5.0 - 9.0% of mass 95	1597	7.3		Pass
173	Less than 2.0% of mass 174	196	0.9	(0.99) [a]	Pass
174	50.0 - 100.0% of mass 95	19850	90.8		Pass
175	5.0 - 9.0% of mass 174	1405	6.4	(7.1) [a]	Pass
176	95.0 - 101.0% of mass 174	19084	87.3	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	1393	6.4	(7.3) [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
VX438-CC435	X0058887.D	02/07/10	11:17	00:29	Continuing cal 40
VX438-MB	X0058892.D	02/07/10	13:41	02:53	Method Blank
VX438-BS	X0058893.D	02/07/10	14:09	03:21	Blank Spike
ZZZZZZ	X0058894.D	02/07/10	14:37	03:49	(unrelated sample)
ZZZZZZ	X0058895.D	02/07/10	15:06	04:18	(unrelated sample)
ZZZZZZ	X0058896.D	02/07/10	15:35	04:47	(unrelated sample)
T46705-1	X0058897.D	02/07/10	16:04	05:16	SW-3
T46705-1MS	X0058898.D	02/07/10	16:32	05:44	Matrix Spike
T46705-1MSD	X0058899.D	02/07/10	17:01	06:13	Matrix Spike Duplicate
T46705-3	X0058902.D	02/07/10	18:27	07:39	SW-5
T46705-4	X0058903.D	02/07/10	18:56	08:08	SW-2
T46705-5	X0058904.D	02/07/10	19:25	08:37	SW-6
ZZZZZZ	X0058905.D	02/07/10	19:54	09:06	(unrelated sample)
ZZZZZZ	X0058907.D	02/07/10	20:52	10:04	(unrelated sample)
ZZZZZZ	X0058908.D	02/07/10	21:20	10:32	(unrelated sample)
T46705-8	X0058910.D	02/07/10	22:17	11:29	TRIP BLANK

Instrument Performance Check (BFB)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX439-BFB
Lab File ID: X0058913.D
Instrument ID: GCMSX
Injection Date: 02/08/10
Injection Time: 09:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	3471	19.8		Pass
75	30.0 - 60.0% of mass 95	8768	49.9		Pass
95	Base peak, 100% relative abundance	17560	100.0		Pass
96	5.0 - 9.0% of mass 95	1347	7.7		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	16057	91.4		Pass
175	5.0 - 9.0% of mass 174	1210	6.9	(7.5) [a]	Pass
176	95.0 - 101.0% of mass 174	15294	87.1	(95.2) [a]	Pass
177	5.0 - 9.0% of mass 176	1015	5.8	(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
VX439-IC439	X0058919.D	02/08/10	12:33	02:59	Initial cal 2
VX439-IC439	X0058920.D	02/08/10	13:02	03:28	Initial cal 5
VX439-IC439	X0058921.D	02/08/10	13:30	03:56	Initial cal 20
VX439-ICC439	X0058922.D	02/08/10	13:59	04:25	Initial cal 40
VX439-IC439	X0058923.D	02/08/10	14:27	04:53	Initial cal 100
VX439-IC439	X0058924.D	02/08/10	14:55	05:21	Initial cal 200
VX439-ICV439	X0058926.D	02/08/10	15:53	06:19	Initial cal verification 40
VX439-BS	X0058927.D	02/08/10	16:21	06:47	Blank Spike
VX439-MB	X0058929.D	02/08/10	17:19	07:45	Method Blank
T46705-2	X0058930.D	02/08/10	18:26	08:52	SW-4
T47048-12	X0058931.D	02/08/10	18:55	09:21	(used for QC only; not part of job T46705)
T47048-12MS	X0058932.D	02/08/10	19:24	09:50	Matrix Spike
T47048-12MSD	X0058933.D	02/08/10	19:53	10:19	Matrix Spike Duplicate
T47048-12	X0058934.D	02/08/10	20:21	10:47	(used for QC only; not part of job T46705)
ZZZZZZ	X0058935.D	02/08/10	20:50	11:16	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2406-BFB
Lab File ID: Y0037565.D
Instrument ID: GCMSY
Injection Date: 02/03/10
Injection Time: 17:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4910	21.0		Pass
75	30.0 - 60.0% of mass 95	12074	51.6		Pass
95	Base peak, 100% relative abundance	23386	100.0		Pass
96	5.0 - 9.0% of mass 95	1662	7.1		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	19093	81.6		Pass
175	5.0 - 9.0% of mass 174	1632	7.0	(8.5) [a]	Pass
176	95.0 - 101.0% of mass 174	18954	81.0	(99.3) [a]	Pass
177	5.0 - 9.0% of mass 176	1273	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
VY2406-IC2406	Y0037566.D	02/03/10	18:20	00:30	Initial cal 4
VY2406-IC2406	Y0037567.D	02/03/10	18:50	01:00	Initial cal 10
VY2406-IC2406	Y0037568.D	02/03/10	19:20	01:30	Initial cal 20
VY2406-ICC2406	Y0037569.D	02/03/10	19:50	02:00	Initial cal 40
VY2406-IC2406	Y0037570.D	02/03/10	20:20	02:30	Initial cal 70
VY2406-IC2406	Y0037571.D	02/03/10	20:50	03:00	Initial cal 100
VY2406-IC2406	Y0037572.D	02/03/10	21:20	03:30	Initial cal 200
VY2406-ICV2406	Y0037574.D	02/04/10	09:16	15:26	Initial cal verification 40

Instrument Performance Check (BFB)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2412-BFB
Lab File ID: Y0037676.D
Instrument ID: GCMSY
Injection Date: 02/08/10
Injection Time: 09:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4450	20.2		Pass
75	30.0 - 60.0% of mass 95	10571	48.0		Pass
95	Base peak, 100% relative abundance	22026	100.0		Pass
96	5.0 - 9.0% of mass 95	1452	6.6		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	19856	90.1		Pass
175	5.0 - 9.0% of mass 174	1492	6.8	(7.5) [a]	Pass
176	95.0 - 101.0% of mass 174	19920	90.4	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	1365	6.2	(6.9) [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
VY2412-CC2406	Y0037677.D	02/08/10	10:20	00:34	Continuing cal 20
VY2412-BS	Y0037678.D	02/08/10	10:51	01:05	Blank Spike
VY2412-MB	Y0037680.D	02/08/10	11:52	02:06	Method Blank
ZZZZZZ	Y0037681.D	02/08/10	12:23	02:37	(unrelated sample)
ZZZZZZ	Y0037682.D	02/08/10	12:52	03:06	(unrelated sample)
ZZZZZZ	Y0037683.D	02/08/10	13:23	03:37	(unrelated sample)
ZZZZZZ	Y0037684.D	02/08/10	13:53	04:07	(unrelated sample)
ZZZZZZ	Y0037685.D	02/08/10	14:23	04:37	(unrelated sample)
ZZZZZZ	Y0037686.D	02/08/10	14:54	05:08	(unrelated sample)
ZZZZZZ	Y0037687.D	02/08/10	15:32	05:46	(unrelated sample)
ZZZZZZ	Y0037688.D	02/08/10	16:02	06:16	(unrelated sample)
T46705-7	Y0037689.D	02/08/10	16:32	06:46	TDM-2
T46705-7MS	Y0037690.D	02/08/10	17:02	07:16	Matrix Spike
T46705-7MSD	Y0037691.D	02/08/10	17:32	07:46	Matrix Spike Duplicate
T46705-6	Y0037692.D	02/08/10	18:02	08:16	TDM-1
ZZZZZZ	Y0037694.D	02/08/10	19:03	09:17	(unrelated sample)
ZZZZZZ	Y0037695.D	02/08/10	19:33	09:47	(unrelated sample)
ZZZZZZ	Y0037696.D	02/08/10	20:03	10:17	(unrelated sample)
ZZZZZZ	Y0037697.D	02/08/10	20:33	10:47	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VX438-CC435	**Injection Date:**	02/07/10
Lab File ID:	X0058887.D	**Injection Time:**	11:17
Instrument ID:	GCMSX	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1884932	9.47	1651849	12.65	1032104	15.09
Upper Limit [a]	3769864	9.97	3303698	13.15	2064208	15.59
Lower Limit [b]	942466	8.97	825925	12.15	516052	14.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VX438-MB	1701812	9.47	1412123	12.65	812910	15.09
VX438-BS	1794589	9.47	1575076	12.65	972160	15.09
ZZZZZZ	1744924	9.48	1422512	12.65	812240	15.09
ZZZZZZ	1627004	9.48	1315350	12.65	760835	15.09
ZZZZZZ	1567517	9.48	1274249	12.65	737022	15.09
T46705-1	1551727	9.48	1286238	12.65	745920	15.09
T46705-1MS	1701886	9.48	1508247	12.65	953957	15.09
T46705-1MSD	1791259	9.48	1551575	12.65	969314	15.09
T46705-3	1571118	9.48	1313946	12.65	744064	15.09
T46705-4	1522941	9.48	1266515	12.65	728489	15.09
T46705-5	1467194	9.48	1204333	12.65	699048	15.09
ZZZZZZ	1443793	9.48	1188254	12.65	687484	15.09
ZZZZZZ	1725701	9.48	1458770	12.65	908277	15.09
ZZZZZZ	1798587	9.48	1479989	12.65	875522	15.09
T46705-8	1586476	9.48	1308806	12.65	751976	15.09

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: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VX439-ICC439	**Injection Date:**	02/08/10
Lab File ID:	X0058922.D	**Injection Time:**	13:59
Instrument ID:	GCMSX	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1722696	9.49	1521478	12.66	965768	15.10
Upper Limit [a]	3445392	9.99	3042956	13.16	1931536	15.60
Lower Limit [b]	861348	8.99	760739	12.16	482884	14.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VX439-BS	1915773	9.49	1668733	12.66	1056439	15.10
VX439-MB	1691035	9.49	1438434	12.67	848339	15.10
T46705-2	1558034	9.49	1310109	12.66	793917	15.10
T47048-12	1606809	9.48	1477599	12.66	921433	15.10
T47048-12MS	2009264	9.48	1712874	12.66	1086286	15.10
T47048-12MSD	2131048	9.48	1842168	12.66	1152756	15.10
T47048-12	2154271	9.48	1858159	12.66	1165751	15.10
ZZZZZZ	2134204	9.48	1907147	12.65	1191502	15.09

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: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VY2412-CC2406	**Injection Date:**	02/08/10
Lab File ID:	Y0037677.D	**Injection Time:**	10:20
Instrument ID:	GCMSY	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	578884	10.23	446705	13.38	212561	15.78
Upper Limit [a]	1157768	10.73	893410	13.88	425122	16.28
Lower Limit [b]	289442	9.73	223353	12.88	106281	15.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VY2412-BS	579637	10.23	439513	13.38	196559	15.78
VY2412-MB	573605	10.23	433357	13.38	197963	15.78
ZZZZZZ	571683	10.24	434889	13.38	199716	15.78
ZZZZZZ	568242	10.24	433956	13.38	199386	15.78
ZZZZZZ	576894	10.23	430052	13.38	191666	15.78
ZZZZZZ	566039	10.24	433843	13.38	200839	15.78
ZZZZZZ	509802	10.24	398705	13.38	181875	15.78
ZZZZZZ	576268	10.24	455919	13.38	159935	15.78
ZZZZZZ	504001	10.23	270734	13.38	46810[c]	15.78
ZZZZZZ	562226	10.24	356566	13.38	127027	15.78
T46705-7 [d]	575117	10.23	420149	13.38	154844	15.78
T46705-7MS	581781	10.23	402563	13.38	155850	15.78
T46705-7MSD	574457	10.23	398623	13.38	144928	15.78
T46705-6 [d]	577045	10.23	372563	13.38	134119	15.78
ZZZZZZ	605929	10.23	460894	13.38	231648	15.78
ZZZZZZ	568521	10.24	425349	13.38	200784	15.78
ZZZZZZ	557666	10.24	420507	13.38	189073	15.78
ZZZZZZ	547974	10.23	362439	13.38	148647	15.78

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.
(c) Outside control limits. There are no target compounds associated with this internal standard.
(d) Dilution required due to high concentrations of non-target analytes.

Volatile Surrogate Recovery Summary

Job Number: T46705
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
T46705-1	X0058897.D	111.0	122.0* [a]	104.0	93.0
T46705-2	X0058930.D	101.0	102.0	111.0	97.0
T46705-3	X0058902.D	109.0	121.0	104.0	96.0
T46705-4	X0058903.D	110.0	123.0* [a]	105.0	93.0
T46705-5	X0058904.D	113.0	125.0* [a]	103.0	93.0
T46705-8	X0058910.D	109.0	122.0* [a]	104.0	96.0
T46705-1MS	X0058898.D	110.0	121.0	106.0	94.0
T46705-1MSD	X0058899.D	109.0	117.0	107.0	96.0
T47048-12MS	X0058932.D	98.0	93.0	110.0	104.0
T47048-12MSD	X0058933.D	97.0	87.0	109.0	103.0
VX438-BS	X0058893.D	108.0	117.0	106.0	98.0
VX438-MB	X0058892.D	110.0	120.0	104.0	96.0
VX439-BS	X0058927.D	98.0	92.0	112.0	99.0
VX439-MB	X0058929.D	101.0	98.0	110.0	99.0

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. The sample is non-detect for all target compounds associated with this surrogate.

Volatile Surrogate Recovery Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
T46705-6	Y0037692.D	107.0	116.0	98.0	87.0
T46705-7	Y0037689.D	107.0	108.0	102.0	87.0
T46705-7MS	Y0037690.D	105.0	111.0	97.0	88.0
T46705-7MSD	Y0037691.D	106.0	112.0	101.0	89.0
VY2412-BS	Y0037678.D	109.0	106.0	92.0	93.0
VY2412-MB	Y0037680.D	111.0	106.0	93.0	94.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-121%
S2 = Toluene-D8	76-132%
S3 = 4-Bromofluorobenzene	73-165%
S4 = 1,2-Dichloroethane-D4	57-122%

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VX435-ICC435
Lab FileID: X0058812.D

Response Factor Report 5975

Method : C:\msdchem\1\METHODS\vx435ap9w.m (RTE Integrator)
Title : SW846 8260B and EPA624
Last Update : Fri Feb 05 09:21:48 2010
Response via : Initial Calibration

Calibration Files
2 =X0058809.D 5 =X0058810.D 40 =X0058812.D 20 =X0058811.D
100 =X0058813.D 200 =X0058814.D =

Compound	2	5	40	20	100	200	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------							
2) Dichlorodifluorom	0.311	0.287	0.285	0.301	0.283	0.262	0.288	5.76
3)P Chloromethane	0.159	0.141	0.125	0.131	0.130	0.117	0.134	11.02
4)C Vinyl Chloride	0.147	0.128	0.120	0.125	0.127	0.117	0.127	8.40
5) Bromomethane	0.152	0.136	0.107	0.119	0.096		0.122	18.45
---- Linear regression ---- Coefficient = 0.9975								
Response Ratio = 0.00616 + 0.09369 *A								
6) Chloroethane	0.085	0.080	0.065	0.072	0.062		0.073	12.92
7) Trichlorofluorome	0.328	0.293	0.268	0.296	0.266	0.224	0.279	12.52
8) Ethyl Ether	0.078	0.073	0.073	0.078	0.070	0.062	0.072	8.46
9) Acrolein	0.005	0.005	0.007	0.007	0.006	0.006	0.006	10.40
10)C 1,1-Dichloroethen	0.211	0.232	0.256	0.257	0.253	0.232	0.240	7.57
11) Freon 113	0.176	0.206	0.216	0.223	0.214	0.193	0.205	8.49
12) Acetone	0.069	0.044	0.041	0.048	0.035	0.039	0.046	26.06
---- Linear regression ---- Coefficient = 0.9963								
Response Ratio = 0.00562 + 0.03781 *A								
13) Iodomethane	0.304	0.328	0.373	0.362	0.398	0.390	0.359	10.13
14) Methyl Acetate	0.112	0.095	0.107	0.116	0.092	0.096	0.103	9.60
15) Carbon Disulfide	0.600	0.632	0.664	0.670	0.667	0.623	0.643	4.44
16) Methylene Chlorid	0.250	0.242	0.221	0.233	0.212	0.192	0.225	9.38
17) Tert Butyl Alcoho	0.008	0.007	0.011	0.012		0.013	0.010	24.06
---- Linear regression ---- Coefficient = 0.9993								
Response Ratio = -0.00799 + 0.01341 *A								
18) Allyl Chloride	0.176	0.167	0.199	0.194	0.198	0.182	0.186	7.07
19) Acetonitrile	0.021	0.017	0.016	0.017	0.015	0.015	0.017	13.56
20) trans-1,2-Dichlor	0.196	0.227	0.253	0.255	0.256	0.238	0.237	9.88
21) Acrylonitrile	0.043	0.041	0.053	0.057	0.048	0.051	0.049	12.35
22) Methyl Tert Butyl	0.287	0.294	0.447	0.422	0.464	0.473	0.398	21.36
---- Linear regression ---- Coefficient = 0.9999								
Response Ratio = -0.01837 + 0.47659 *A								
23) Hexane	0.102	0.136	0.211	0.205	0.209	0.196	0.176	26.15
---- Linear regression ---- Coefficient = 0.9986								
Response Ratio = 0.00308 + 0.19758 *A								
24)P 1,1-Dichloroethan	0.305	0.331	0.327	0.340	0.321	0.298	0.320	4.97
25) Vinyl Acetate	0.178	0.213	0.290	0.303	0.260	0.238	0.247	19.08
---- Linear regression ---- Coefficient = 0.9962								
Response Ratio = 0.08940 + 0.23772 *A								
26) Di-isopropyl ethe	0.265	0.336	0.483	0.456	0.496	0.456	0.415	22.42
---- Linear regression ---- Coefficient = 0.9978								
Response Ratio = 0.00599 + 0.46221 *A								

Initial Calibration Summary

Job Number: T46705 **Sample:** VX435-ICC435
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** X0058812.D
Project: Vertellus-Provo

```
27)  Chloroprene       0.378 0.435 0.546 0.539 0.535 0.488       0.487  13.91
28)  Ethyl tert-butyl  0.281 0.329 0.489 0.459 0.506 0.497       0.427  22.71
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = -0.01094 + 0.50233 *A

29)  2,2-Dichloropropa 0.213 0.242 0.266 0.267 0.270 0.244       0.250   8.78
30)  cis-1,2-Dichloroe 0.160 0.190 0.217 0.220 0.217 0.197       0.200  11.67
31)  Ethyl Acetate     0.091 0.081 0.129 0.133 0.113 0.133       0.113  19.86
            ---- Linear regression ----  Coefficient =  0.9945
              Response Ratio = -0.02967 + 0.13109 *A

32)  2-Butanone        0.067 0.067 0.067 0.079 0.054 0.042       0.063  20.29
            ---- Quadratic regression ----  Coefficient =  0.9986
              Response Ratio = 0.00926 + 0.06750 *A + -0.00130 *A^2

33)  Propionitrile     0.017 0.016 0.022 0.023 0.019 0.022       0.020  15.52
            ---- Linear regression ----  Coefficient =  0.9954
              Response Ratio = -0.00361 + 0.02213 *A

34)  Methacrylonitrile 0.078 0.102 0.142 0.146 0.136 0.120       0.121  21.91
            ---- Linear regression ----  Coefficient =  0.9949
              Response Ratio = 0.00797 + 0.12124 *A

35)  Bromochloromethan 0.109 0.118 0.126 0.127 0.125 0.117       0.120   5.74
36)C Chloroform        0.348 0.361 0.365 0.379 0.361 0.331       0.358   4.52
37)  Tetrahydrofuran   0.032 0.043 0.058 0.061 0.056 0.048       0.050  21.85
            ---- Linear regression ----  Coefficient =  0.9920
              Response Ratio = 0.00421 + 0.04813 *A

38)  1,1,1-Trichloroet 0.260 0.290 0.314 0.315 0.320 0.295       0.299   7.54
39)S Dibromofluorometh 0.230 0.215 0.221 0.222 0.221 0.209       0.220   3.28
40)  Cyclohexane       0.125 0.173 0.285 0.274 0.281 0.247       0.231  28.76
            ---- Linear regression ----  Coefficient =  0.9946
              Response Ratio = 0.01161 + 0.25046 *A

41)  n-Butyl Alcohol   0.001 0.001 0.003 0.002 0.003             0.002  46.78
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.00088 + 0.00268 *A

42)  1,1-Dichloroprope 0.139 0.172 0.252 0.245 0.256 0.235       0.216  22.57
            ---- Linear regression ----  Coefficient =  0.9978
              Response Ratio = 0.00438 + 0.23828 *A

43)  Carbon Tetrachlor 0.228 0.252 0.285 0.282 0.291 0.273       0.269   9.00
44)S 1,2-Dichloroethan 0.242 0.227 0.221 0.231 0.211 0.194       0.221   7.64
45)  Benzene           0.619 0.743 0.789 0.809 0.754 0.625       0.723  11.34
46)  Isobutyl Alcohol  0.008 0.010 0.013 0.013 0.013 0.012       0.012  18.87
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = 0.00168 + 0.01258 *A

47)  1,2-Dichloroethan 0.237 0.249 0.252 0.263 0.245 0.237       0.247   4.02
48)  tert-amyl methyl  0.257 0.304 0.483 0.454 0.489 0.460       0.408  24.70
            ---- Linear regression ----  Coefficient =  0.9987
              Response Ratio = 0.00155 + 0.46547 *A

49)  Trichloroethene   0.147 0.167 0.209 0.199 0.220 0.212       0.192  15.03
50)  Methylcyclohexane 0.134 0.172 0.311 0.290 0.325 0.306       0.256  31.88
            ---- Linear regression ----  Coefficient =  0.9987
              Response Ratio = -0.00317 + 0.31058 *A
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICC435
Lab FileID: X0058812.D

```
51)  Methyl Methacryla 0.048 0.052 0.107 0.095 0.105 0.118       0.088  33.94
            ---- Linear regression ----  Coefficient =  0.9978
              Response Ratio = -0.00877 + 0.11773 *A

52)C 1,2-Dichloropropa 0.155 0.175 0.196 0.197 0.193 0.178       0.182   8.91
53)  Dibromomethane    0.124 0.129 0.141 0.146 0.137 0.136       0.136   5.86
54)  1,4-Dioxane       0.001 0.001 0.002 0.002       0.002       0.002  34.36
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = -0.00366 + 0.00231 *A

55)  Bromodichlorometh 0.241 0.253 0.279 0.277 0.289 0.275       0.269   6.76
56)  2-Nitropropane    0.031 0.032 0.039 0.041 0.036 0.040       0.037  12.25
57)  2-Chloroethyl vin 0.049 0.067 0.117 0.116 0.108 0.095       0.092  30.68
            ---- Linear regression ----  Coefficient =  0.9937
              Response Ratio = 0.03429 + 0.09559 *A

58)  4-Methyl-2-pentan 0.092 0.101 0.149 0.159 0.127 0.126       0.126  20.68
            ---- Linear regression ----  Coefficient =  0.9981
              Response Ratio = 0.03038 + 0.12531 *A

59)  cis-1,3-Dichlorop 0.181 0.221 0.315 0.297 0.332 0.320       0.278  22.20
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = -0.00568 + 0.32429 *A


60) I   Chlorobenzene-d5      ----------------ISTD---------------------
61)S Toluene-d8        0.694 0.736 0.905 0.883 0.922 0.870       0.835  11.43
62)C Toluene           0.649 0.848 1.055 1.037 1.069 0.984       0.941  17.43
            ---- Linear regression ----  Coefficient =  0.9980
              Response Ratio = 0.02430 + 0.99460 *A

63)  Ethyl Methacrylat 0.110 0.124 0.286 0.247 0.290 0.318       0.229  39.19
            ---- Linear regression ----  Coefficient =  0.9985
              Response Ratio = -0.02527 + 0.32006 *A

64)  trans-1,3-Dichlor 0.195 0.236 0.335 0.315 0.344 0.343       0.295  21.62
            ---- Linear regression ----  Coefficient =  1.0000
              Response Ratio = -0.00870 + 0.34570 *A

65)  1,1,2-Trichloroet 0.183 0.200 0.207 0.214 0.200 0.198       0.200   5.21
66)  Tetrachloroethene 0.221 0.260 0.308 0.295 0.326 0.317       0.288  13.91
67)  2-hexanone        0.062 0.072 0.133 0.138 0.114 0.123       0.107  30.27
            ---- Linear regression ----  Coefficient =  0.9974
              Response Ratio = -0.00358 + 0.12217 *A

68)  1,3-Dichloropropa 0.330 0.370 0.405 0.419 0.385 0.376       0.381   8.11
69)  Dibromochlorometh 0.225 0.248 0.289 0.282 0.296 0.303       0.274  11.12
70)  1,2-Dibromoethane 0.192 0.201 0.255 0.247 0.254 0.269       0.236  13.56
71)  1-Chlorohexane    0.109 0.162 0.338 0.294 0.363 0.347       0.269  39.79
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.01206 + 0.35357 *A

72)P Chlorobenzene     0.701 0.757 0.767 0.763 0.774 0.711       0.746   4.18
73)  1,1,1,2-Tetrachlo 0.242 0.267 0.284 0.278 0.298 0.288       0.276   7.14
74)C Ethylbenzene      0.877 1.039 1.232 1.202 1.238 1.099       1.114  12.62
75)  m,p-Xylene        0.534 0.760 0.969 0.940 0.959 0.816       0.830  20.23
            ---- Linear regression ----  Coefficient =  0.9920
              Response Ratio = 0.11612 + 0.82876 *A
```

Initial Calibration Summary

Job Number: T46705 **Sample:** VX435-ICC435
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** X0058812.D
Project: Vertellus-Provo

```
76)  o-Xylene          0.434 0.637 0.984 0.912 1.011 0.899       0.813  28.10
            ---- Linear regression ----  Coefficient =  0.9958
              Response Ratio = 0.02231 + 0.91485 *A

77)  Styrene           0.309 0.505 0.800 0.750 0.830 0.747       0.657  31.28
            ---- Linear regression ----  Coefficient =  0.9965
              Response Ratio = 0.01201 + 0.75995 *A

78)P Bromoform         0.145 0.158 0.200 0.193 0.209 0.231       0.189  17.07
            ---- Linear regression ----  Coefficient =  0.9978
              Response Ratio = -0.01600 + 0.23126 *A


79) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
80)  Isopropylbenzene  0.722 1.033 1.780 1.653 1.896 1.731       1.469  32.36
            ---- Linear regression ----  Coefficient =  0.9974
              Response Ratio = -0.00232 + 1.76406 *A

81)  Cyclohexanone     0.002 0.003 0.005 0.005 0.005 0.006       0.004  32.76
            ---- Linear regression ----  Coefficient =  0.9910
              Response Ratio = -0.00518 + 0.00581 *A

82)S 4-Bromofluorobenz 0.445 0.444 0.633 0.603 0.674 0.648       0.575  17.98
            ---- Linear regression ----  Coefficient =  0.9994
              Response Ratio = -0.01093 + 0.65621 *A

83)  Bromobenzene      0.429 0.557 0.621 0.621 0.653 0.617       0.583  13.98
84)P 1,1,2,2-Tetrachlo 0.564 0.536 0.580 0.615 0.536 0.560       0.565   5.27
85)  Trans-1,4-Dichlor 0.076 0.109 0.151 0.154 0.135 0.137       0.127  23.30
            ---- Linear regression ----  Coefficient =  0.9992
              Response Ratio = 0.00219 + 0.13666 *A

86)  1,2,3-Trichloropr 0.140 0.154 0.164 0.178 0.152 0.160       0.158   8.04
87)  n-Propylbenzene   1.119 1.624 2.494 2.407 2.568 2.261       2.079  27.90
            ---- Linear regression ----  Coefficient =  0.9951
              Response Ratio = 0.07562 + 2.30126 *A

88)  2-Chlorotoluene   1.065 1.485 1.742 1.755 1.761 1.561       1.561  17.24
            ---- Linear regression ----  Coefficient =  0.9958
              Response Ratio = 0.07675 + 1.57906 *A

89)  4-Chlorotoluene   0.884 1.180 1.533 1.512 1.611 1.494       1.369  20.45
            ---- Linear regression ----  Coefficient =  0.9983
              Response Ratio = 0.01250 + 1.51327 *A

90)  1,3,5-Trimethylbe 0.732 1.117 1.723 1.648 1.817 1.629       1.444  29.49
            ---- Linear regression ----  Coefficient =  0.9964
              Response Ratio = 0.02532 + 1.65920 *A

91)  Pentachloroethane 0.375 0.345 0.399 0.382 0.430 0.429       0.393   8.32
92)  sec-Butylbenzene  1.018 1.525 2.294 2.187 2.387 2.162       1.929  27.99
            ---- Linear regression ----  Coefficient =  0.9970
              Response Ratio = 0.03234 + 2.19766 *A

93)  1,3-Dichlorobenze 0.820 0.999 1.113 1.100 1.180 1.115       1.055  12.20
94)  4-Isopropyltoluen 0.722 1.140 1.790 1.685 1.918 1.767       1.504  31.19
            ---- Linear regression ----  Coefficient =  0.9979
              Response Ratio = -0.00840 + 1.79893 *A

95)  1,4-Dichlorobenze 1.152 1.233 1.198 1.209 1.237 1.165       1.199   2.90
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICC435
Lab FileID: X0058812.D

```
 96)  tert-Butylbenzene 0.467 0.624 0.983 0.931 1.025 0.952       0.830  27.51
             ---- Linear regression ----  Coefficient =  0.9983
               Response Ratio = 0.00061 + 0.96669 *A

 97)  n-Butylbenzene    1.035 1.319 1.847 1.795 1.876 1.696       1.595  21.40
             ---- Linear regression ----  Coefficient =  0.9969
               Response Ratio = 0.04835 + 1.71876 *A

 98)  1,2-Dichlorobenze 0.899 1.036 1.131 1.128 1.177 1.121       1.082   9.31
 99)  1,2,4-Trimethylbe 0.755 1.246 1.785 1.725 1.870 1.704       1.514  28.47
             ---- Linear regression ----  Coefficient =  0.9974
               Response Ratio = 0.02078 + 1.73063 *A

100)  Hexachloroethane  0.358 0.325 0.366 0.355 0.397 0.393       0.366   7.35
101)  1,2-Dibromo-3-Chl 0.090 0.083 0.101 0.106 0.094 0.108       0.097  10.23
102)  1,2,4-Trichlorobe 0.556 0.657 0.835 0.794 0.918 0.924       0.781  18.88
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.04116 + 0.93365 *A

103)  Hexachlorobutadie 0.284 0.310 0.353 0.345 0.381 0.381       0.342  11.40
104)  Naphthalene       1.073 1.175 1.908 1.862 1.899 2.071       1.665  25.60
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.11501 + 2.07114 *A

105)  1,2,3-Trichlorobe 0.625 0.665 0.828 0.814 0.866 0.886       0.781  13.99

106) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
107)H TPH-GRO (C6-C10)  0.250 1.362 3.245 3.073 3.982 2.994       2.484  56.01
 ---------------------------------------------------------------------------
 (#) = Out of Range

           vx435ap9w.m        Fri Feb 05 10:34:37 2010
```

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VX435-ICV435
Lab FileID: X0058816.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\5975\VX435\X0058816.D          Vial: 11
Acq On    :  4 Feb 2010   5:47 pm                    Operator: jennl
Sample    : icv435-40                                Inst    : 5975
Misc      : ms7475,vx435,5.,,,5,,water               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\vx435ap9w.m (RTE Integrator)
Title        : SW846 8260B and EPA624
Last Update  : Fri Feb 05 09:21:48 2010
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	107	0.00	9.49
2	Dichlorodifluoromethane	0.288	0.241	16.3	90	0.01	3.88
3 P	Chloromethane	0.134	0.107	20.1#	91	0.00	4.19
4 C	Vinyl Chloride	0.127	0.116	8.7	104	0.01	4.41
		Amount	Calc.	%Drift			
5	Bromomethane	40.000	37.286	6.8	95	0.01	4.99
		AvgRF	CCRF	%Dev			
6	Chloroethane	0.073	0.060	17.8	99	0.01	5.13
7	Trichlorofluoromethane	0.279	0.228	18.3	91	-0.02	5.45
8	Ethyl Ether	0.072	0.058	19.4	85	0.00	5.81
9	Acrolein	0.006	0.008	-33.3#	131	0.00	6.12
10 C	1,1-Dichloroethene	0.240	0.209	12.9	87	0.00	6.20
11	Freon 113	0.205	0.161	21.5#	80	0.00	6.11
		Amount	Calc.	%Drift			
12	Acetone	200.000	150.500	24.8#	77	0.00	6.30
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.359	0.280	22.0#	80	0.01	6.48
14	Methyl Acetate	0.103	0.079	23.3#	79	0.00	6.64
15	Carbon Disulfide	0.643	0.361	43.9#	58	0.00	6.55
16	Methylene Chloride	0.225	0.194	13.8	94	0.00	6.86
		Amount	Calc.	%Drift			
17	Tert Butyl Alcohol	400.000	289.866	27.5#	84	0.01	6.87
		AvgRF	CCRF	%Dev			
18	Allyl Chloride	0.186	0.192	-3.2	103	0.00	6.66
19	Acetonitrile	0.017	0.056	-229.4#	376#	0.00	6.76
20	trans-1,2-Dichloroethene	0.237	0.220	7.2	93	0.00	7.13
21	Acrylonitrile	0.049	0.066	-34.7#	132	0.00	7.20
		Amount	Calc.	%Drift			
22	Methyl Tert Butyl Ether	40.000	34.625	13.4	93	0.00	7.05
23	Hexane	40.000	26.547	33.6#	68	0.00	7.30
		AvgRF	CCRF	%Dev			
24 P	1,1-Dichloroethane	0.320	0.283	11.6	92	0.00	7.65
		Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICV435
Lab FileID: X0058816.D

25		Vinyl Acetate	200.000	162.141	18.9	79	0.00	7.60
26		Di-isopropyl ether	40.000	35.471	11.3	92	0.00	7.54
			AvgRF	CCRF	%Dev			
27		Chloroprene	0.487	0.210	56.9#	41#	0.00	7.71
			Amount	Calc.	%Drift			
28		Ethyl tert-butyl ether	40.000	33.863	15.3	90	0.00	7.94
			AvgRF	CCRF	%Dev			
29		2,2-Dichloropropane	0.250	0.231	7.6	93	0.00	8.28
30		cis-1,2-Dichloroethene	0.200	0.204	-2.0	101	0.00	8.30
			Amount	Calc.	%Drift			
31		Ethyl Acetate	200.000	166.661	16.7	84	0.00	8.24
32		2-Butanone	200.000	153.666	23.2#	81	0.01	8.28
33		Propionitrile	200.000	338.235	-69.1#	176	0.00	8.45
34		Methacrylonitrile	40.000	29.561	26.1#	75	0.00	8.82
			AvgRF	CCRF	%Dev			
35		Bromochloromethane	0.120	0.107	10.8	91	0.00	8.58
36	C	Chloroform	0.358	0.325	9.2	95	0.00	8.60
			Amount	Calc.	%Drift			
37		Tetrahydrofuran	40.000	29.169	27.1#	74	0.00	8.82
			AvgRF	CCRF	%Dev			
38		1,1,1-Trichloroethane	0.299	0.280	6.4	95	0.00	8.82
39	S	Dibromofluoromethane	0.220	0.260	-18.2	126	0.00	8.79
			Amount	Calc.	%Drift			
40		Cyclohexane	40.000	29.980	25.1#	76	0.00	8.82
41		n-Butyl Alcohol	400.000	711.424	-77.9#	185	0.00	9.65
42		1,1-Dichloropropene	40.000	37.379	6.6	97	0.00	8.97
			AvgRF	CCRF	%Dev			
43		Carbon Tetrachloride	0.269	0.254	5.6	95	0.00	8.96
44	S	1,2-Dichloroethane-d4	0.221	0.241	-9.0	116	0.00	9.21
45		Benzene	0.723	0.691	4.4	94	0.00	9.21
			Amount	Calc.	%Drift			
46		Isobutyl Alcohol	400.000	375.530	6.1	96	0.01	9.20
			AvgRF	CCRF	%Dev			
47		1,2-Dichloroethane	0.247	0.219	11.3	93	0.00	9.28
			Amount	Calc.	%Drift			
48		tert-amyl methyl ether	40.000	36.181	9.5	94	0.00	9.20
			AvgRF	CCRF	%Dev			
49		Trichloroethene	0.192	0.196	-2.1	100	0.00	9.86
			Amount	Calc.	%Drift			
50		Methylcyclohexane	40.000	30.747	23.1#	81	0.00	10.01
51		Methyl Methacrylate	40.000	35.916	10.2	94	0.00	10.10
			AvgRF	CCRF	%Dev			
52	C	1,2-Dichloropropane	0.182	0.176	3.3	96	0.01	10.16
53		Dibromomethane	0.136	0.127	6.6	96	0.00	10.30

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICV435
Lab FileID: X0058816.D

			Amount	Calc.	%Drift			
54		1,4-Dioxane	800.000	551.786	31.0#	79	0.00	10.22
			AvgRF	CCRF	%Dev			
55		Bromodichloromethane	0.269	0.250	7.1	96	0.00	10.41
56		2-Nitropropane	0.037	0.030	18.9	83	0.00	10.69
			Amount	Calc.	%Drift			
57		2-Chloroethyl vinyl ether	200.000	193.064	3.5	92	0.00	10.63
58		4-Methyl-2-pentanone	200.000	167.223	16.4	80	0.00	10.93
59		cis-1,3-Dichloropropene	40.000	37.030	7.4	99	0.00	10.85
			AvgRF	CCRF	%Dev			
60	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	12.66
61	S	Toluene-d8	0.835	1.129	-35.2#	133	0.00	11.10
			Amount	Calc.	%Drift			
62	C	Toluene	40.000	37.950	5.1	99	0.00	11.17
63		Ethyl Methacrylate	40.000	34.263	14.3	91	0.00	11.36
64		trans-1,3-Dichloropropene	40.000	38.736	3.2	103	0.00	11.43
			AvgRF	CCRF	%Dev			
65		1,1,2-Trichloroethane	0.200	0.184	8.0	95	0.00	11.64
66		Tetrachloroethene	0.288	0.298	-3.5	104	0.00	11.73
			Amount	Calc.	%Drift			
67		2-hexanone	200.000	154.574	22.7#	75	0.00	11.79
			AvgRF	CCRF	%Dev			
68		1,3-Dichloropropane	0.381	0.357	6.3	94	0.00	11.83
69		Dibromochloromethane	0.274	0.265	3.3	98	0.00	12.07
70		1,2-Dibromoethane	0.236	0.234	0.8	98	0.00	12.24
			Amount	Calc.	%Drift			
71		1-Chlorohexane	40.000	35.356	11.6	94	0.00	12.53
			AvgRF	CCRF	%Dev			
72	P	Chlorobenzene	0.746	0.720	3.5	100	0.00	12.69
73		1,1,1,2-Tetrachloroethane	0.276	0.269	2.5	101	0.00	12.76
74	C	Ethylbenzene	1.114	1.124	-0.9	98	0.00	12.72
			Amount	Calc.	%Drift			
75		m,p-Xylene	80.000	78.328	2.1	98	0.00	12.82
76		o-Xylene	40.000	38.686	3.3	99	0.00	13.28
77		Styrene	40.000	37.411	6.5	97	0.00	13.30
78	P	Bromoform	40.000	34.572	13.6	96	0.00	13.60
			AvgRF	CCRF	%Dev			
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	15.10
			Amount	Calc.	%Drift			
80		Isopropylbenzene	40.000	43.596	-9.0	115	0.00	13.61
81		Cyclohexanone	400.000	664.576	-66.1#	186	0.00	13.88
82	S	4-Bromofluorobenzene	40.000	50.051	-25.1#	136	0.00	13.88
			AvgRF	CCRF	%Dev			
83		Bromobenzene	0.583	0.591	-1.4	101	0.00	14.09
84	P	1,1,2,2-Tetrachloroethane	0.565	0.507	10.3	93	0.00	14.00

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICV435
Lab FileID: X0058816.D

			Amount	Calc.	%Drift			
85		Trans-1,4-Dichloro-2-bute	40.000	31.967	20.1#	79	0.00	14.06
			AvgRF	CCRF	%Dev			
86		1,2,3-Trichloropropane	0.158	0.130	17.7	84	0.00	14.10
			Amount	Calc.	%Drift			
87		n-Propylbenzene	40.000	38.205	4.5	98	0.00	14.05
88		2-Chlorotoluene	40.000	38.355	4.1	98	0.00	14.24
89		4-Chlorotoluene	40.000	37.605	6.0	100	0.00	14.34
90		1,3,5-Trimethylbenzene	40.000	37.828	5.4	99	0.00	14.21
			AvgRF	CCRF	%Dev			
91		Pentachloroethane	0.393	0.353	10.2	94	0.00	14.69
			Amount	Calc.	%Drift			
92		sec-Butylbenzene	40.000	37.755	5.6	98	0.00	14.80
			AvgRF	CCRF	%Dev			
93		1,3-Dichlorobenzene	1.055	1.071	-1.5	103	0.00	15.03
			Amount	Calc.	%Drift			
94		4-Isopropyltoluene	40.000	37.985	5.0	101	0.00	14.92
			AvgRF	CCRF	%Dev			
95		1,4-Dichlorobenzene	1.199	1.142	4.8	102	0.00	15.12
			Amount	Calc.	%Drift			
96		tert-Butylbenzene	40.000	37.225	6.9	98	0.00	14.57
97		n-Butylbenzene	40.000	36.322	9.2	93	0.00	15.35
			AvgRF	CCRF	%Dev			
98		1,2-Dichlorobenzene	1.082	1.079	0.3	102	0.01	15.54
			Amount	Calc.	%Drift			
99		1,2,4-Trimethylbenzene	40.000	38.039	4.9	100	-0.01	14.62
			AvgRF	CCRF	%Dev			
100		Hexachloroethane	0.366	0.378	-3.3	110	0.00	15.76
101		1,2-Dibromo-3-Chloropropa	0.097	0.082	15.5	86	0.00	16.36
			Amount	Calc.	%Drift			
102		1,2,4-Trichlorobenzene	40.000	36.711	8.2	103	0.00	17.23
			AvgRF	CCRF	%Dev			
103		Hexachlorobutadiene	0.342	0.346	-1.2	104	0.00	17.29
			Amount	Calc.	%Drift			
104		Naphthalene	40.000	34.860	12.9	93	0.00	17.56
			AvgRF	CCRF	%Dev			
105		1,2,3-Trichlorobenzene	0.781	0.780	0.1	100	0.00	17.85
106	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	107	0.00	15.10
107	H	TPH-GRO (C6-C10)	2.484	2.738	-10.2	90	0.00	10.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX435-ICV435
Lab FileID: X0058816.D

X0058812.D vx435ap9w.m Fri Feb 05 10:32:17 2010

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VX438-CC435
Lab FileID: X0058887.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\5975\VX438\X0058887.D          Vial: 4
Acq On    :  7 Feb 2010  11:17 am                   Operator: jennl
Sample    : cc435-40                                Inst    : 5975
Misc      : ms7502,vx438,5.,,,5,,water              Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\vx435ap9w.m (RTE Integrator)
Title        : SW846 8260B and EPA624
Last Update  : Fri Feb 05 13:12:49 2010
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	121	-0.02	9.47
2		Dichlorodifluoromethane	0.288	0.281	2.4	119	-0.01	3.86
3	P	Chloromethane	0.134	0.159	-18.7	154#	-0.01	4.18
4	C	Vinyl Chloride	0.127	0.152	-19.7	153#	-0.01	4.39
			Amount	Calc.	%Drift			
5		Bromomethane	40.000	55.920	-39.8#	157	-0.01	4.97
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.073	0.089	-21.9#	164#	0.00	5.12
7		Trichlorofluoromethane	0.279	0.340	-21.9#	153#	-0.02	5.45
8		Ethyl Ether	0.072	0.090	-25.0#	151#	-0.01	5.80
9		Acrolein	0.006	0.006	0.0	110	-0.01	6.11
10	C	1,1-Dichloroethene	0.240	0.265	-10.4	125	-0.02	6.18
11		Freon 113	0.205	0.186	9.3	104	-0.01	6.10
			Amount	Calc.	%Drift			
12		Acetone	200.000	262.552	-31.3#	149	-0.01	6.28
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.359	0.353	1.7	114	-0.01	6.46
14		Methyl Acetate	0.103	0.121	-17.5	137	-0.02	6.62
15		Carbon Disulfide	0.643	0.608	5.4	110	-0.01	6.54
16		Methylene Chloride	0.225	0.250	-11.1	136	-0.02	6.83
			Amount	Calc.	%Drift			
17		Tert Butyl Alcohol	400.000	402.786	-0.7	136	-0.01	6.85
			AvgRF	CCRF	%Dev			
18		Allyl Chloride	0.186	0.212	-14.0	128	-0.01	6.65
19		Acetonitrile	0.017	0.018	-5.9	135	-0.02	6.74
20		trans-1,2-Dichloroethene	0.237	0.266	-12.2	127	-0.02	7.10
21		Acrylonitrile	0.049	0.055	-12.2	125	-0.01	7.19
			Amount	Calc.	%Drift			
22		Methyl Tert Butyl Ether	40.000	41.253	-3.1	127	-0.01	7.04
23		Hexane	40.000	35.275	11.8	102	-0.02	7.28
			AvgRF	CCRF	%Dev			
24	P	1,1-Dichloroethane	0.320	0.351	-9.7	129	-0.01	7.64
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX438-CC435
Lab FileID: X0058887.D

25		Vinyl Acetate	200.000	250.736	-25.4#	133	-0.01	7.59
26		Di-isopropyl ether	40.000	43.729	-9.3	128	-0.02	7.51
		----------	AvgRF	CCRF	%Dev	----------		
27		Chloroprene	0.487	0.567	-16.4	125	-0.01	7.70
		----------	Amount	Calc.	%Drift	----------		
28		Ethyl tert-butyl ether	40.000	42.401	-6.0	128	-0.01	7.92
		----------	AvgRF	CCRF	%Dev	----------		
29		2,2-Dichloropropane	0.250	0.299	-19.6	136	-0.01	8.27
30		cis-1,2-Dichloroethene	0.200	0.209	-4.5	116	-0.01	8.29
		----------	Amount	Calc.	%Drift	----------		
31		Ethyl Acetate	200.000	246.622	-23.3#	144	-0.02	8.22
32		2-Butanone	200.000	211.362	-5.7	122	-0.01	8.26
33		Propionitrile	200.000	214.443	-7.2	124	-0.02	8.43
34		Methacrylonitrile	40.000	45.628	-14.1	126	-0.01	8.81
		----------	AvgRF	CCRF	%Dev	----------		
35		Bromochloromethane	0.120	0.129	-7.5	124	-0.01	8.57
36	C	Chloroform	0.358	0.395	-10.3	130	-0.01	8.59
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	44.876	-12.2	123	-0.01	8.81
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.299	0.344	-15.1	132	-0.02	8.80
39	S	Dibromofluoromethane	0.220	0.239	-8.6	130	-0.01	8.78
		----------	Amount	Calc.	%Drift	----------		
40		Cyclohexane	40.000	38.769	3.1	109	-0.01	8.81
41		n-Butyl Alcohol	400.000	428.005	-7.0	124	-0.01	9.64
42		1,1-Dichloropropene	40.000	41.865	-4.7	122	-0.01	8.96
		----------	AvgRF	CCRF	%Dev	----------		
43		Carbon Tetrachloride	0.269	0.326	-21.2#	138	-0.01	8.95
44	S	1,2-Dichloroethane-d4	0.221	0.269	-21.7#	147	-0.02	9.19
45		Benzene	0.723	0.768	-6.2	117	-0.01	9.20
		----------	Amount	Calc.	%Drift	----------		
46		Isobutyl Alcohol	400.000	508.034	-27.0#	147	-0.01	9.18
		----------	AvgRF	CCRF	%Dev	----------		
47		1,2-Dichloroethane	0.247	0.302	-22.3#	145	-0.01	9.27
		----------	Amount	Calc.	%Drift	----------		
48		tert-amyl methyl ether	40.000	44.024	-10.1	128	-0.02	9.18
		----------	AvgRF	CCRF	%Dev	----------		
49		Trichloroethene	0.192	0.207	-7.8	120	-0.02	9.83
		----------	Amount	Calc.	%Drift	----------		
50		Methylcyclohexane	40.000	35.717	10.7	106	-0.02	9.99
51		Methyl Methacrylate	40.000	48.641	-21.6#	149	-0.01	10.09
		----------	AvgRF	CCRF	%Dev	----------		
52	C	1,2-Dichloropropane	0.182	0.209	-14.8	129	-0.01	10.14
53		Dibromomethane	0.136	0.150	-10.3	129	-0.01	10.29

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			Amount	Calc.	%Drift			
54		1,4-Dioxane	800.000	644.773	19.4	106	-0.01	10.21
			AvgRF	CCRF	%Dev			
55		Bromodichloromethane	0.269	0.304	-13.0	132	-0.02	10.38
56		2-Nitropropane	0.037	0.055	-48.6#	168#	-0.01	10.68
			Amount	Calc.	%Drift			
57		2-Chloroethyl vinyl ether	200.000	248.573	-24.3#	131	-0.02	10.61
58		4-Methyl-2-pentanone	200.000	269.437	-34.7#	143	-0.01	10.92
59		cis-1,3-Dichloropropene	40.000	43.002	-7.5	131	-0.01	10.84
			AvgRF	CCRF	%Dev			
60	I	Chlorobenzene-d5	1.000	1.000	0.0	132	-0.01	12.65
61	S	Toluene-d8	0.835	0.878	-5.1	128	-0.01	11.09
			Amount	Calc.	%Drift			
62	C	Toluene	40.000	38.246	4.4	122	-0.02	11.15
63		Ethyl Methacrylate	40.000	38.076	4.8	126	-0.02	11.33
64		trans-1,3-Dichloropropene	40.000	42.302	-5.8	139	-0.02	11.41
			AvgRF	CCRF	%Dev			
65		1,1,2-Trichloroethane	0.200	0.199	0.5	126	-0.01	11.63
66		Tetrachloroethene	0.288	0.286	0.7	122	-0.02	11.71
			Amount	Calc.	%Drift			
67		2-hexanone	200.000	244.079	-22.0#	146	-0.01	11.78
			AvgRF	CCRF	%Dev			
68		1,3-Dichloropropane	0.381	0.409	-7.3	133	-0.01	11.82
69		Dibromochloromethane	0.274	0.299	-9.1	136	-0.01	12.06
70		1,2-Dibromoethane	0.236	0.245	-3.8	126	-0.01	12.23
			Amount	Calc.	%Drift			
71		1-Chlorohexane	40.000	35.070	12.3	115	-0.02	12.51
			AvgRF	CCRF	%Dev			
72	P	Chlorobenzene	0.746	0.760	-1.9	130	-0.01	12.68
73		1,1,1,2-Tetrachloroethane	0.276	0.297	-7.6	137	-0.01	12.75
74	C	Ethylbenzene	1.114	1.191	-6.9	127	-0.01	12.70
			Amount	Calc.	%Drift			
75		m,p-Xylene	80.000	84.283	-5.4	129	-0.01	12.81
76		o-Xylene	40.000	40.620	-1.5	128	-0.02	13.25
77		Styrene	40.000	39.485	1.3	126	-0.02	13.28
78	P	Bromoform	40.000	40.714	-1.8	142	-0.02	13.58
			AvgRF	CCRF	%Dev			
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	140	-0.01	15.09
			Amount	Calc.	%Drift			
80		Isopropylbenzene	40.000	36.823	7.9	128	-0.01	13.60
81		Cyclohexanone	400.000	439.421	-9.9	156	-0.01	13.87
82	S	4-Bromofluorobenzene	40.000	36.942	7.6	131	-0.01	13.87
			AvgRF	CCRF	%Dev			
83		Bromobenzene	0.583	0.584	-0.2	132	-0.01	14.07
84	P	1,1,2,2-Tetrachloroethane	0.565	0.550	2.7	133	-0.01	13.99

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		Amount	Calc.	%Drift			
85	Trans-1,4-Dichloro-2-bute	40.000	46.616	-16.5	150	-0.01	14.05
		AvgRF	CCRF	%Dev			
86	1,2,3-Trichloropropane	0.158	0.161	-1.9	138	-0.01	14.09
		Amount	Calc.	%Drift			
87	n-Propylbenzene	40.000	38.665	3.3	130	-0.02	14.03
88	2-Chlorotoluene	40.000	39.244	1.9	132	-0.02	14.21
89	4-Chlorotoluene	40.000	37.702	5.7	132	-0.01	14.33
90	1,3,5-Trimethylbenzene	40.000	38.283	4.3	132	-0.02	14.19
		AvgRF	CCRF	%Dev			
91	Pentachloroethane	0.393	0.416	-5.9	146	-0.01	14.68
		Amount	Calc.	%Drift			
92	sec-Butylbenzene	40.000	37.585	6.0	129	-0.01	14.79
		AvgRF	CCRF	%Dev			
93	1,3-Dichlorobenzene	1.055	1.048	0.7	132	-0.01	15.02
		Amount	Calc.	%Drift			
94	4-Isopropyltoluene	40.000	38.352	4.1	134	-0.01	14.91
		AvgRF	CCRF	%Dev			
95	1,4-Dichlorobenzene	1.199	1.153	3.8	135	-0.01	15.11
		Amount	Calc.	%Drift			
96	tert-Butylbenzene	40.000	38.558	3.6	133	-0.02	14.55
97	n-Butylbenzene	40.000	37.867	5.3	128	-0.01	15.34
		AvgRF	CCRF	%Dev			
98	1,2-Dichlorobenzene	1.082	1.073	0.8	133	-0.01	15.52
		Amount	Calc.	%Drift			
99	1,2,4-Trimethylbenzene	40.000	37.726	5.7	130	-0.02	14.61
		AvgRF	CCRF	%Dev			
100	Hexachloroethane	0.366	0.403	-10.1	154#	-0.01	15.75
101	1,2-Dibromo-3-Chloropropa	0.097	0.109	-12.4	151#	-0.01	16.35
		Amount	Calc.	%Drift			
102	1,2,4-Trichlorobenzene	40.000	36.871	7.8	136	-0.01	17.21
		AvgRF	CCRF	%Dev			
103	Hexachlorobutadiene	0.342	0.335	2.0	133	-0.01	17.28
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	38.081	4.8	134	-0.01	17.55
		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.781	0.808	-3.5	137	-0.02	17.83
106 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	81	-0.01	15.09
		Amount	Calc.	%Drift			
107 H	TPH-GRO (C6-C10)	2000.000	2129.788	-6.5	90	0.00	10.65

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX438-CC435
Lab FileID: X0058887.D

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(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 X0058812.D vx435ap9w.m       Mon Feb 08 10:22:34 2010
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VX439-ICC439
Lab FileID: X0058922.D


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                         Response Factor Report  5975

 Method       : C:\msdchem\1\METHODS\vx439ap9w.m (RTE Integrator)
 Title        : SW846 8260B and EPA624
 Last Update  : Tue Feb 09 09:28:33 2010
 Response via : Initial Calibration

 Calibration Files
 2   =X0058919.D  5   =X0058920.D  40  =X0058922.D  20  =X0058921.D
 100 =X0058923.D  200 =X0058924.D      =

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

 1) I   Fluorobenzene         ----------------ISTD---------------------
 2)  Dichlorodifluorom 0.344 0.370 0.379 0.364 0.351 0.329       0.356   5.18
 3)P Chloromethane     0.217 0.196 0.183 0.193 0.162 0.178       0.188   9.84
 4)C Vinyl Chloride    0.177 0.173 0.174 0.184 0.163 0.179       0.175   4.09
 5)  Bromomethane      0.191 0.176 0.152 0.173 0.125             0.163  15.75
            ---- Linear regression ----  Coefficient =  0.9901
              Response Ratio = 0.01156 + 0.12216 *A

 6)  Chloroethane      0.120 0.110 0.099 0.111 0.084             0.105  13.27
            ---- Linear regression ----  Coefficient =  0.9931
              Response Ratio = 0.00639 + 0.08243 *A

 7)  Trichlorofluorome 0.402 0.418 0.409 0.415 0.369 0.358       0.395   6.45
 8)  Ethyl Ether       0.098 0.083 0.086 0.093 0.083 0.090       0.089   6.75
 9)  Acrolein          0.006 0.004 0.006 0.006 0.006 0.006       0.006  10.98
10)C 1,1-Dichloroethen 0.276 0.234 0.284 0.251 0.282 0.274       0.267   7.42
11)  Freon 113         0.232 0.227 0.234 0.216 0.221 0.204       0.222   5.04
12)  Acetone           0.066 0.045 0.043 0.049 0.044 0.045       0.049  17.56
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = 0.00006 + 0.04480 *A

13)  Iodomethane       0.342 0.309 0.366 0.324 0.379 0.388       0.352   8.96
14)  Methyl Acetate    0.127 0.103 0.107 0.118 0.104 0.105       0.111   8.73
15)  Carbon Disulfide  0.639 0.600 0.656 0.601 0.637 0.622       0.626   3.59
16)  Methylene Chlorid 0.324 0.274 0.259 0.258 0.235 0.217       0.261  14.06
17)  Tert Butyl Alcoho 0.010 0.008 0.010 0.011       0.014       0.011  21.09
            ---- Linear regression ----  Coefficient =  0.9972
              Response Ratio = -0.01331 + 0.01437 *A

18)  Allyl Chloride    0.218 0.204 0.276 0.245 0.266 0.251       0.243  11.32
19)  Acetonitrile      0.029 0.020 0.018 0.020 0.017 0.017       0.020  21.97
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = 0.00137 + 0.01693 *A

20)  trans-1,2-Dichlor 0.240 0.235 0.282 0.254 0.273 0.263       0.258   7.12
21)  Acrylonitrile     0.046 0.041 0.050 0.052 0.046 0.049       0.047   8.18
22)  Methyl Tert Butyl 0.327 0.304 0.449 0.417 0.483 0.522       0.417  20.64
            ---- Linear regression ----  Coefficient =  0.9986
              Response Ratio = -0.03789 + 0.52426 *A

23)  Hexane            0.120 0.129 0.214 0.177 0.212 0.208       0.177  24.10
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.00463 + 0.21008 *A

24)P 1,1-Dichloroethan 0.377 0.360 0.366 0.358 0.343 0.323       0.354   5.36
25)  Vinyl Acetate     0.184 0.203 0.295 0.299 0.291 0.268       0.257  19.69
```

Initial Calibration Summary

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             ---- Linear regression ----  Coefficient =  0.9979
               Response Ratio = 0.04345 + 0.27076 *A

26)  Di-isopropyl ethe 0.343 0.340 0.520 0.455 0.533 0.511       0.450  19.60
             ---- Linear regression ----  Coefficient =  0.9993
               Response Ratio = -0.00698 + 0.51705 *A

27)  Chloroprene       0.454 0.526 0.741 0.673 0.703 0.643       0.623  17.77
             ---- Linear regression ----  Coefficient =  0.9971
               Response Ratio = 0.02470 + 0.64879 *A

28)  Ethyl tert-butyl  0.328 0.346 0.520 0.474 0.535 0.540       0.457  21.06
             ---- Linear regression ----  Coefficient =  0.9999
               Response Ratio = -0.01889 + 0.54445 *A

29)  2,2-Dichloropropa 0.297 0.297 0.326 0.309 0.306 0.293       0.305   4.00
30)  cis-1,2-Dichloroe 0.176 0.181 0.213 0.205 0.209 0.198       0.197   7.77
31)  Ethyl Acetate     0.099 0.079 0.121 0.133 0.127 0.131       0.115  18.46
             ---- Linear regression ----  Coefficient =  0.9996
               Response Ratio = -0.01931 + 0.13089 *A

32)  2-Butanone        0.066 0.067 0.068 0.070 0.063 0.063       0.066   4.01
33)  Propionitrile     0.018 0.017 0.021 0.022 0.021 0.023       0.020  13.15
34)  Methacrylonitrile 0.112 0.123 0.171 0.153 0.162 0.150       0.145  15.61
             ---- Linear regression ----  Coefficient =  0.9978
               Response Ratio = 0.00473 + 0.15100 *A

35)  Bromochloromethan 0.127 0.118 0.129 0.128 0.125 0.121       0.125   3.74
36)C Chloroform        0.412 0.399 0.409 0.394 0.385 0.364       0.394   4.47
37)  Tetrahydrofuran   0.039 0.051 0.070 0.061 0.064 0.058       0.057  18.98
             ---- Linear regression ----  Coefficient =  0.9961
               Response Ratio = 0.00297 + 0.05824 *A

38)  1,1,1-Trichloroet 0.352 0.340 0.368 0.345 0.355 0.345       0.351   2.84
39)S Dibromofluorometh 0.234 0.245 0.255 0.243 0.247 0.234       0.243   3.27
40)  Cyclohexane       0.153 0.173 0.299 0.244 0.292 0.276       0.239  26.13
             ---- Linear regression ----  Coefficient =  0.9985
               Response Ratio = -0.00080 + 0.27933 *A

41)  n-Butyl Alcohol         0.001 0.002 0.002 0.002             0.002  34.16
             ---- Linear regression ----  Coefficient =  0.9959
               Response Ratio = -0.00290 + 0.00258 *A

42)  1,1-Dichloroprope 0.155 0.180 0.271 0.232 0.271 0.261       0.228  21.89
             ---- Linear regression ----  Coefficient =  0.9993
               Response Ratio = -0.00287 + 0.26364 *A

43)  Carbon Tetrachlor 0.336 0.325 0.356 0.325 0.346 0.335       0.337   3.58
44)S 1,2-Dichloroethan 0.283 0.281 0.278 0.279 0.263 0.237       0.270   6.61
45)  Benzene           0.661 0.709 0.790 0.758 0.741 0.662       0.720   7.30
46)  Isobutyl Alcohol  0.011 0.012 0.016 0.015 0.016 0.016       0.014  14.81
47)  1,2-Dichloroethan 0.303 0.290 0.299 0.303 0.288 0.280       0.294   3.22
48)  tert-amyl methyl  0.288 0.308 0.501 0.455 0.522 0.515       0.431  24.66
             ---- Linear regression ----  Coefficient =  0.9998
               Response Ratio = -0.01568 + 0.52091 *A

49)  Trichloroethene   0.168 0.167 0.208 0.185 0.212 0.214       0.192  11.35
50)  Methylcyclohexane 0.149 0.175 0.321 0.258 0.329 0.327       0.260  30.99
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.01370 + 0.33109 *A
```

Initial Calibration Summary

Job Number: T46705
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Project: Vertellus-Provo

Sample: VX439-ICC439
Lab FileID: X0058922.D

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51)  Methyl Methacryla 0.200 0.192 0.111 0.100 0.129 0.157       0.148  28.05
            ---- Linear regression ----  Coefficient =  0.9900
              Response Ratio = -0.01658 + 0.15545 *A

52)C 1,2-Dichloropropa 0.169 0.171 0.207 0.201 0.198 0.189       0.189   8.35
53)  Dibromomethane    0.136 0.131 0.143 0.147 0.142 0.141       0.140   3.97
54)  1,4-Dioxane       0.001 0.001 0.001 0.001       0.002       0.001  32.95
            ---- Linear regression ----  Coefficient =  0.9973
              Response Ratio = -0.00383 + 0.00192 *A

55)  Bromodichlorometh 0.283 0.271 0.306 0.292 0.306 0.300       0.293   4.80
56)  2-Nitropropane    0.044 0.041 0.047 0.050 0.048 0.051       0.047   7.48
57)  2-Chloroethyl vin 0.053 0.061 0.115 0.113 0.116 0.107       0.094  30.93
            ---- Linear regression ----  Coefficient =  0.9977
              Response Ratio = 0.00843 + 0.10811 *A

58)  4-Methyl-2-pentan 0.109 0.105 0.152 0.163 0.151 0.149       0.138  17.72
            ---- Linear regression ----  Coefficient =  0.9997
              Response Ratio = 0.00296 + 0.14924 *A

59)  cis-1,3-Dichlorop 0.204 0.228 0.335 0.298 0.346 0.347       0.293  21.41
            ---- Linear regression ----  Coefficient =  0.9999
              Response Ratio = -0.01221 + 0.35049 *A


60) I   Chlorobenzene-d5      ----------------ISTD---------------------
61)S Toluene-d8        0.632 0.716 0.910 0.841 0.916 0.874       0.815  14.18
62)C Toluene           0.649 0.739 0.971 0.892 0.981 0.945       0.863  15.93
            ---- Linear regression ----  Coefficient =  0.9995
              Response Ratio = -0.00409 + 0.95357 *A

63)  Ethyl Methacrylat 0.104 0.121 0.247 0.207 0.287 0.309       0.212  40.09
            ---- Linear regression ----  Coefficient =  0.9983
              Response Ratio = -0.03236 + 0.31349 *A

64)  trans-1,3-Dichlor 0.219 0.233 0.336 0.312 0.351 0.356       0.301  19.98
            ---- Linear regression ----  Coefficient =  0.9999
              Response Ratio = -0.01361 + 0.35839 *A

65)  1,1,2-Trichloroet 0.191 0.186 0.189 0.194 0.188 0.190       0.190   1.48
66)  Tetrachloroethene 0.239 0.246 0.292 0.259 0.302 0.311       0.275  11.18
67)  2-hexanone        0.070 0.069 0.123 0.132 0.128 0.135       0.109  28.46
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.02998 + 0.13495 *A

68)  1,3-Dichloropropa 0.329 0.342 0.387 0.396 0.377 0.373       0.368   7.16
69)  Dibromochlorometh 0.254 0.247 0.286 0.274 0.302 0.316       0.280   9.61
70)  1,2-Dibromoethane 0.197 0.188 0.227 0.220 0.241 0.256       0.221  11.67
71)  1-Chlorohexane    0.126 0.152 0.322 0.244 0.341 0.346       0.255  38.13
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.02313 + 0.35123 *A

72)P Chlorobenzene     0.776 0.728 0.767 0.735 0.753 0.724       0.747   2.87
73)  1,1,1,2-Tetrachlo 0.295 0.273 0.301 0.286 0.305 0.304       0.294   4.25
74)C Ethylbenzene      0.980 0.977 1.214 1.097 1.204 1.151       1.104   9.59
75)  m,p-Xylene        0.606 0.690 0.966 0.873 0.953 0.876       0.827  17.73
            ---- Linear regression ----  Coefficient =  0.9976
              Response Ratio = 0.03988 + 0.88620 *A
```

Initial Calibration Summary

Job Number: T46705 **Sample:** VX439-ICC439
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** X0058922.D
Project: Vertellus-Provo

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76)  o-Xylene          0.476 0.572 0.974 0.834 0.986 0.938       0.797  27.60
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = -0.01162 + 0.95116 *A

77)  Styrene           0.340 0.452 0.787 0.689 0.797 0.768       0.639  30.54
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.01370 + 0.77825 *A

78)P Bromoform         0.170 0.158 0.200 0.193 0.219             0.188  13.00

79) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
80)  Isopropylbenzene  0.808 0.870 1.657 1.355 1.709 1.683       1.347  30.75
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.06630 + 1.70788 *A

81)  Cyclohexanone     0.001 0.002 0.004 0.004 0.005 0.006       0.003  49.99
            ---- Linear regression ----  Coefficient =  0.9936
              Response Ratio = -0.00718 + 0.00553 *A

82)S 4-Bromofluorobenz 0.399 0.396 0.612 0.531 0.628 0.626       0.532  20.66
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = -0.02053 + 0.63198 *A

83)  Bromobenzene      0.451 0.477 0.587 0.558 0.589 0.587       0.541  11.35
84)P 1,1,2,2-Tetrachlo 0.534 0.471 0.501 0.528 0.485 0.515       0.506   4.86
85)  Trans-1,4-Dichlor 0.094 0.099 0.141 0.143 0.144 0.146       0.128  19.06
            ---- Linear regression ----  Coefficient =  1.0000
              Response Ratio = -0.00328 + 0.14627 *A

86)  1,2,3-Trichloropr 0.156 0.141 0.149 0.160 0.147 0.153       0.151   4.46
87)  n-Propylbenzene   1.181 1.345 2.373 2.038 2.360 2.257       1.926  27.50
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = -0.02292 + 2.28635 *A

88)  2-Chlorotoluene   1.107 1.286 1.678 1.555 1.623 1.538       1.465  15.08
            ---- Linear regression ----  Coefficient =  0.9989
              Response Ratio = 0.02813 + 1.54836 *A

89)  4-Chlorotoluene   0.912 1.000 1.480 1.331 1.479 1.463       1.277  20.10
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = -0.02717 + 1.47488 *A

90)  1,3,5-Trimethylbe 0.802 0.952 1.656 1.407 1.669 1.612       1.350  28.23
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.03139 + 1.63349 *A

91)  Pentachloroethane 0.372 0.345 0.404 0.372 0.418 0.424       0.389   7.96
92)  sec-Butylbenzene  1.147 1.309 2.200 1.880 2.224 2.172       1.822  26.31
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.05225 + 2.19886 *A

93)  1,3-Dichlorobenze 0.842 0.882 1.081 1.014 1.095 1.105       1.003  11.42
94)  4-Isopropyltoluen 0.839 0.979 1.782 1.512 1.821 1.814       1.458  30.36
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = -0.06932 + 1.83587 *A

95)  1,4-Dichlorobenze 1.251 1.132 1.168 1.112 1.164 1.170       1.166   4.09
96)  tert-Butylbenzene 0.504 0.535 0.951 0.810 0.968 0.945       0.786  27.23
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.02518 + 0.95709 *A
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX439-ICC439
Lab FileID: X0058922.D

```
 97)  n-Butylbenzene    0.983 1.114 1.803 1.576 1.796 1.744       1.503  24.19
             ---- Linear regression ----  Coefficient =  0.9995
               Response Ratio = -0.02475 + 1.76279 *A

 98)  1,2-Dichlorobenze 0.947 0.933 1.098 1.028 1.104 1.122       1.039   7.98
 99)  1,2,4-Trimethylbe 0.776 1.057 1.725 1.537 1.727 1.674       1.416  28.46
             ---- Linear regression ----  Coefficient =  0.9995
               Response Ratio = -0.02380 + 1.69255 *A

100)  Hexachloroethane  0.371 0.349 0.418 0.377 0.427 0.438       0.397   9.02
101)  1,2-Dibromo-3-Chl 0.102 0.082 0.093 0.098 0.094 0.111       0.097  10.12
102)  1,2,4-Trichlorobe 0.592 0.588 0.835 0.751 0.891 0.976       0.772  20.57
             ---- Linear regression ----  Coefficient =  0.9982
               Response Ratio = -0.07621 + 0.97984 *A

103)  Hexachlorobutadie 0.337 0.309 0.370 0.333 0.381 0.430       0.360  11.92
104)  Naphthalene       1.057 1.017 1.700 1.583 1.823 2.046       1.538  27.14
             ---- Linear regression ----  Coefficient =  0.9973
               Response Ratio = -0.18383 + 2.05292 *A

105)  1,2,3-Trichlorobe 0.644 0.609 0.821 0.770 0.848 0.923       0.769  15.80
             ---- Linear regression ----  Coefficient =  0.9985
               Response Ratio = -0.05738 + 0.92407 *A


106) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
107)H TPH-GRO (C6-C10)  0.303 1.215 2.860 2.894 3.745 2.876       2.315  55.47
 ---------------------------------------------------------------------------
 (#) = Out of Range

           vx439ap9w.m        Tue Feb 09 10:48:50 2010
```

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VX439-ICV439
Lab FileID: X0058926.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\5975\VX439\X0058926.D          Vial: 14
Acq On    :  8 Feb 2010   3:53 pm                    Operator: jennl
Sample    : icv439-40                                Inst    : 5975
Misc      : ms7507,vx439,5.,,,5,,water               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\vx439ap9w.m (RTE Integrator)
Title        : SW846 8260B and EPA624
Last Update  : Tue Feb 09 09:28:33 2010
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	113	0.00	9.49
2	Dichlorodifluoromethane	0.356	0.325	8.7	97	0.00	3.88
3 P	Chloromethane	0.188	0.151	19.7	93	0.00	4.19
4 C	Vinyl Chloride	0.175	0.164	6.3	106	0.00	4.41
		Amount	Calc.	%Drift			
5	Bromomethane	40.000	35.867	10.3	92	0.00	4.99
6	Chloroethane	40.000	38.591	3.5	100	0.00	5.13
		AvgRF	CCRF	%Dev			
7	Trichlorofluoromethane	0.395	0.342	13.4	94	0.00	5.47
8	Ethyl Ether	0.089	0.109	-22.5#	143	0.01	5.82
9	Acrolein	0.006	0.029	-383.3#	566#	0.00	6.13
10 C	1,1-Dichloroethene	0.267	0.302	-13.1	120	0.01	6.21
11	Freon 113	0.222	0.249	-12.2	120	0.00	6.12
		Amount	Calc.	%Drift			
12	Acetone	200.000	211.672	-5.8	124	0.00	6.31
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.352	0.418	-18.8	129	0.00	6.48
14	Methyl Acetate	0.111	0.118	-6.3	124	0.00	6.64
15	Carbon Disulfide	0.626	0.693	-10.7	119	0.01	6.56
16	Methylene Chloride	0.261	0.260	0.4	114	0.00	6.86
		Amount	Calc.	%Drift			
17	Tert Butyl Alcohol	400.000	434.600	-8.7	156	0.00	6.87
		AvgRF	CCRF	%Dev			
18	Allyl Chloride	0.243	0.270	-11.1	110	0.00	6.67
		Amount	Calc.	%Drift			
19	Acetonitrile	100.000	464.915	-364.9#	506	0.00	6.76
		AvgRF	CCRF	%Dev			
20	trans-1,2-Dichloroethene	0.258	0.295	-14.3	118	0.00	7.13
21	Acrylonitrile	0.047	0.063	-34.0#	143	0.00	7.21
		Amount	Calc.	%Drift			
22	Methyl Tert Butyl Ether	40.000	44.874	-12.2	136	0.00	7.06
23	Hexane	40.000	47.862	-19.7	129	0.00	7.30

Initial Calibration Verification

Job Number: T46705
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Project: Vertellus-Provo

Sample: VX439-ICV439
Lab FileID: X0058926.D

			AvgRF	CCRF	%Dev			
24	P	1,1-Dichloroethane	0.354	0.367	-3.7	113	0.00	7.67

			Amount	Calc.	%Drift			
25		Vinyl Acetate	200.000	253.435	-26.7#	135	0.00	7.60
26		Di-isopropyl ether	40.000	44.232	-10.6	122	0.00	7.54
27		Chloroprene	40.000	16.012	60.0#	44	0.00	7.72
28		Ethyl tert-butyl ether	40.000	42.307	-5.8	120	0.00	7.95

			AvgRF	CCRF	%Dev			
29		2,2-Dichloropropane	0.305	0.331	-8.5	114	0.00	8.29
30		cis-1,2-Dichloroethene	0.197	0.239	-21.3#	127	0.01	8.31

			Amount	Calc.	%Drift			
31		Ethyl Acetate	200.000	229.894	-14.9	136	0.00	8.24

			AvgRF	CCRF	%Dev			
32		2-Butanone	0.066	0.075	-13.6	125	0.00	8.28
33		Propionitrile	0.020	0.049	-145.0#	265#	0.00	8.45

			Amount	Calc.	%Drift			
34		Methacrylonitrile	40.000	47.155	-17.9	122	0.01	8.83

			AvgRF	CCRF	%Dev			
35		Bromochloromethane	0.125	0.132	-5.6	115	0.00	8.59
36	C	Chloroform	0.394	0.407	-3.3	112	0.01	8.61

			Amount	Calc.	%Drift			
37		Tetrahydrofuran	40.000	46.176	-15.4	115	0.01	8.83

			AvgRF	CCRF	%Dev			
38		1,1,1-Trichloroethane	0.351	0.378	-7.7	116	0.00	8.82
39	S	Dibromofluoromethane	0.243	0.298	-22.6#	132	0.00	8.80

			Amount	Calc.	%Drift			
40		Cyclohexane	40.000	47.475	-18.7	125	0.01	8.83
41		n-Butyl Alcohol	400.000	1120.186	-180.0#	391	-0.01	9.65
42		1,1-Dichloropropene	40.000	45.658	-14.1	124	0.00	8.97

			AvgRF	CCRF	%Dev			
43		Carbon Tetrachloride	0.337	0.366	-8.6	116	0.00	8.97
44	S	1,2-Dichloroethane-d4	0.270	0.310	-14.8	126	0.00	9.21
45		Benzene	0.720	0.823	-14.3	117	0.00	9.21
46		Isobutyl Alcohol	0.014	0.017	-21.4#	119	0.00	9.20
47		1,2-Dichloroethane	0.294	0.303	-3.1	114	0.01	9.29

			Amount	Calc.	%Drift			
48		tert-amyl methyl ether	40.000	43.461	-8.7	123	0.00	9.20

			AvgRF	CCRF	%Dev			
49		Trichloroethene	0.192	0.232	-20.8#	125	0.00	9.86

			Amount	Calc.	%Drift			
50		Methylcyclohexane	40.000	45.164	-12.9	125	0.00	10.01
51		Methyl Methacrylate	40.000	44.929	-12.3	156	0.00	10.10

			AvgRF	CCRF	%Dev			
52	C	1,2-Dichloropropane	0.189	0.213	-12.7	116	0.00	10.16
53		Dibromomethane	0.140	0.154	-10.0	121	0.00	10.31

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX439-ICV439
Lab FileID: X0058926.D

			Amount	Calc.	%Drift			
54		1,4-Dioxane	800.000	874.125	-9.3	155	0.00	10.23
			AvgRF	CCRF	%Dev			
55		Bromodichloromethane	0.293	0.309	-5.5	114	0.00	10.41
56		2-Nitropropane	0.047	0.051	-8.5	121	0.00	10.69
			Amount	Calc.	%Drift			
57		2-Chloroethyl vinyl ether	200.000	226.935	-13.5	122	0.00	10.63
58		4-Methyl-2-pentanone	200.000	217.016	-8.5	121	0.00	10.93
59		cis-1,3-Dichloropropene	40.000	42.764	-6.9	121	0.00	10.86
			AvgRF	CCRF	%Dev			
60	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	12.66
61	S	Toluene-d8	0.815	1.145	-40.5#	139	0.00	11.10
			Amount	Calc.	%Drift			
62	C	Toluene	40.000	44.485	-11.2	120	0.00	11.17
63		Ethyl Methacrylate	40.000	41.497	-3.7	127	0.00	11.36
64		trans-1,3-Dichloropropene	40.000	45.249	-13.1	128	0.00	11.43
			AvgRF	CCRF	%Dev			
65		1,1,2-Trichloroethane	0.190	0.202	-6.3	118	0.01	11.65
66		Tetrachloroethene	0.275	0.335	-21.8#	126	0.00	11.73
			Amount	Calc.	%Drift			
67		2-hexanone	200.000	207.461	-3.7	118	0.00	11.79
			AvgRF	CCRF	%Dev			
68		1,3-Dichloropropane	0.368	0.409	-11.1	116	0.00	11.84
69		Dibromochloromethane	0.280	0.312	-11.4	120	0.00	12.07
70		1,2-Dibromoethane	0.221	0.260	-17.6	126	0.00	12.25
			Amount	Calc.	%Drift			
71		1-Chlorohexane	40.000	44.063	-10.2	123	0.00	12.53
			AvgRF	CCRF	%Dev			
72	P	Chlorobenzene	0.747	0.804	-7.6	116	0.00	12.69
73		1,1,1,2-Tetrachloroethane	0.294	0.314	-6.8	115	0.00	12.76
74	C	Ethylbenzene	1.104	1.260	-14.1	114	0.00	12.71
			Amount	Calc.	%Drift			
75		m,p-Xylene	80.000	87.739	-9.7	114	0.00	12.83
76		o-Xylene	40.000	43.630	-9.1	116	0.00	13.28
77		Styrene	40.000	41.740	-4.4	111	0.00	13.30
			AvgRF	CCRF	%Dev			
78	P	Bromoform	0.188	0.222	-18.1	122	0.00	13.60
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	15.10
			Amount	Calc.	%Drift			
80		Isopropylbenzene	40.000	49.881	-24.7#	136	0.00	13.62
81		Cyclohexanone	400.000	1592.810	-298.2#	571	0.00	13.88
82	S	4-Bromofluorobenzene	40.000	50.033	-25.1#	138	0.00	13.88
			AvgRF	CCRF	%Dev			
83		Bromobenzene	0.541	0.608	-12.4	114	0.00	14.09
84	P	1,1,2,2-Tetrachloroethane	0.506	0.548	-8.3	121	0.00	14.00

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX439-ICV439
Lab FileID: X0058926.D

		Amount	Calc.	%Drift			
85	Trans-1,4-Dichloro-2-bute	40.000	40.801	-2.0	113	0.00	14.06
		AvgRF	CCRF	%Dev			
86	1,2,3-Trichloropropane	0.151	0.146	3.3	108	0.00	14.10
		Amount	Calc.	%Drift			
87	n-Propylbenzene	40.000	43.692	-9.2	115	0.00	14.05
88	2-Chlorotoluene	40.000	42.849	-7.1	111	0.00	14.24
89	4-Chlorotoluene	40.000	41.786	-4.5	112	0.01	14.35
90	1,3,5-Trimethylbenzene	40.000	42.790	-7.0	114	0.00	14.21
		AvgRF	CCRF	%Dev			
91	Pentachloroethane	0.389	0.396	-1.8	108	0.00	14.69
		Amount	Calc.	%Drift			
92	sec-Butylbenzene	40.000	42.893	-7.2	115	0.00	14.80
		AvgRF	CCRF	%Dev			
93	1,3-Dichlorobenzene	1.003	1.131	-12.8	115	0.00	15.03
		Amount	Calc.	%Drift			
94	4-Isopropyltoluene	40.000	42.596	-6.5	116	0.00	14.92
		AvgRF	CCRF	%Dev			
95	1,4-Dichlorobenzene	1.166	1.215	-4.2	115	0.00	15.13
		Amount	Calc.	%Drift			
96	tert-Butylbenzene	40.000	42.333	-5.8	114	0.00	14.57
97	n-Butylbenzene	40.000	41.931	-4.8	111	0.00	15.35
		AvgRF	CCRF	%Dev			
98	1,2-Dichlorobenzene	1.039	1.144	-10.1	115	0.00	15.54
		Amount	Calc.	%Drift			
99	1,2,4-Trimethylbenzene	40.000	42.388	-6.0	113	0.00	14.64
		AvgRF	CCRF	%Dev			
100	Hexachloroethane	0.397	0.457	-15.1	120	0.00	15.76
101	1,2-Dibromo-3-Chloropropa	0.097	0.107	-10.3	126	0.00	16.36
		Amount	Calc.	%Drift			
102	1,2,4-Trichlorobenzene	40.000	41.134	-2.8	120	0.00	17.22
		AvgRF	CCRF	%Dev			
103	Hexachlorobutadiene	0.360	0.405	-12.5	121	0.00	17.30
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	42.260	-5.6	126	0.01	17.57
105	1,2,3-Trichlorobenzene	40.000	41.447	-3.6	119	0.00	17.85
		AvgRF	CCRF	%Dev			
106 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	110	0.00	15.10
107 H	TPH-GRO (C6-C10)	2.315	3.296	-42.4#	127	0.00	10.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VX439-ICV439
Lab FileID: X0058926.D

X0058922.D vx439ap9w.m Tue Feb 09 10:45:49 2010

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VY2406-ICC2406
Lab FileID: Y0037569.D

Response Factor Report GCMS_Y

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

Calibration Files
5 =Y0037570.D 2 =Y0037567.D 3 =Y0037568.D 4 =Y0037569.D
7 =Y0037572.D 6 =Y0037571.D 1 =Y0037566.D

Compound	5	2	3	4	7	6	1	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.076	0.068	0.075	0.078	0.077	0.073	0.066	0.073	6.45
3)P Chloromethane	0.117	0.131	0.126	0.126	0.111	0.112	0.126	0.121	6.55
4)C Vinyl Chloride	0.091	0.103	0.097	0.096	0.089	0.087	0.100	0.095	6.21
5) Bromomethane	0.078	0.084	0.084	0.081	0.078	0.076	0.093	0.082	7.01
6) Chloroethane	0.062	0.065	0.063	0.064	0.062	0.060	0.067	0.063	3.93
7) Trichlorofluorome	0.151	0.154	0.159	0.160	0.149	0.142	0.149	0.152	4.04
8) Ethyl Alcohol								0.000#	-1.00
9) Ethyl ether	0.199	0.199	0.196	0.197	0.206	0.196	0.217	0.201	3.82
10) Acrolein	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.006	4.30
11)C 1,1-Dichloroethen	0.096	0.106	0.101	0.095	0.089	0.093	0.113	0.099	8.52
12) Freon 113	0.080	0.083	0.085	0.080	0.075	0.075	0.086	0.081	5.50
13) Acetone	0.045	0.055	0.050	0.048	0.045	0.044	0.073	0.051	19.83
---- Linear regression ---- Coefficient = 0.9998									
Response Ratio = 0.01105 + 0.04383 *A									
14) Iodomethane	0.202	0.211	0.203	0.197	0.194	0.197	0.214	0.203	3.69
15) Methyl acetate	0.145	0.152	0.150	0.150	0.146	0.141	0.169	0.150	6.01
16) Carbon Disulfide	0.348	0.368	0.363	0.344	0.323	0.333	0.399	0.354	7.13
17) Allyl Chloride	0.325	0.338	0.319	0.328	0.330	0.320	0.357	0.331	4.02
18) Acetonitrile	0.012	0.014	0.013	0.013	0.012	0.012	0.019	0.013	19.17
---- Linear regression ---- Coefficient = 0.9987									
Response Ratio = 0.00037 + 0.01218 *A									
19) Methylene Chlorid	0.161	0.186	0.174	0.163	0.152	0.154	0.232	0.175	15.89
---- Linear regression ---- Coefficient = 0.9998									
Response Ratio = 0.00902 + 0.15048 *A									
20) Tert Butyl Alcoho	0.017	0.017	0.017	0.017	0.018	0.017	0.019	0.017	3.75
21) trans-1,2-Dichlor	0.201	0.207	0.205	0.198	0.201	0.198	0.216	0.204	3.16
22) Acrylonitrile	0.054	0.055	0.056	0.056	0.057	0.053	0.064	0.056	5.98
23) Hexane	0.301	0.311	0.304	0.288	0.288	0.281	0.336	0.301	6.14
24) Methyl Tert Butyl	0.539	0.531	0.536	0.534	0.530	0.530	0.574	0.539	2.92
25)P 1,1-Dichloroethan	0.414	0.431	0.419	0.405	0.425	0.404	0.443	0.420	3.29
26) Vinyl acetate	0.474	0.465	0.459	0.467	0.475	0.469	0.487	0.471	1.89
27) Di-isopropyl ethe	0.810	0.814	0.801	0.777	0.804	0.790	0.810	0.801	1.64
28) Chloroprene	0.770	0.761	0.764	0.785	0.782	0.767	0.854	0.783	4.14
29) Ethyl tert-butyl	0.667	0.664	0.662	0.661	0.663	0.657	0.683	0.665	1.26
30) Ethyl Acetate	0.220	0.207	0.207	0.210	0.222	0.216	0.231	0.216	4.14
31) 2,2-Dichloropropa	0.201	0.215	0.209	0.196	0.189	0.191	0.242	0.206	8.96
32) cis-1,2-Dichloroe	0.224	0.222	0.227	0.221	0.237	0.220	0.245	0.228	4.18
33) 2-Butanone	0.020	0.022	0.022	0.021	0.022	0.020	0.024	0.021	5.50
34) Propionitrile	0.019	0.020	0.020	0.020	0.021	0.020	0.024	0.021	7.42
35) Bromochloromethan	0.121	0.113	0.121	0.117	0.125	0.118	0.114	0.119	3.49
36) Methacrylonitrile	0.077	0.079	0.078	0.079	0.078	0.075	0.133	0.086	24.73
---- Linear regression ---- Coefficient = 0.9992									

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2406-ICC2406
Lab FileID: Y0037569.D

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                Response Ratio = 0.00080 + 0.07698 *A

37)C Chloroform        0.401 0.417 0.403 0.392 0.402 0.390 0.450 0.408   5.05
38)  Tetrahydrofuran   0.064 0.068 0.066 0.064 0.058 0.059 0.073 0.065   7.75
39)  1,1,1-Trichloroet 0.276 0.291 0.283 0.269 0.267 0.266 0.321 0.282   6.91
40)S Dibromofluorometh 0.227 0.240 0.226 0.237 0.231 0.217 0.228 0.229   3.34
41)  Cyclohexane       0.276 0.279 0.286 0.276 0.260 0.264 0.308 0.278   5.66
42)  Isobutyl Alcohol  0.008 0.006 0.007 0.007 0.008 0.008 0.008 0.007   9.58
43)  1,1-Dichloroprope 0.281 0.286 0.289 0.271 0.278 0.271 0.307 0.284   4.41
44)  n-Butyl Alcohol   0.004 0.003 0.004 0.004 0.005 0.005 0.004 0.004  14.68
45)  Carbon Tetrachlor 0.262 0.273 0.266 0.256 0.251 0.250 0.292 0.265   5.51
46)S 1,2-Dichloroethan 0.274 0.274 0.275 0.284 0.277 0.264 0.284 0.276   2.45
47)  Benzene           0.911 0.905 0.885 0.865 0.918 0.898 0.939 0.903   2.62
48)  1,2-Dichloroethan 0.312 0.315 0.319 0.315 0.316 0.306 0.337 0.317   3.04
49)  tert-amyl methyl  0.612 0.573 0.581 0.591 0.608 0.601 0.596 0.595   2.34
50)  Trichloroethene   0.211 0.225 0.214 0.206 0.205 0.204 0.242 0.215   6.52
51)  1-Bromo-2-Chloroe 0.297 0.300 0.300 0.296 0.279 0.287 0.313 0.296   3.63
52)  Methylcyclohexane 0.294 0.297 0.300 0.282 0.267 0.273 0.326 0.291   6.75
53)  Methyl Methacryla 0.200 0.198 0.197 0.205 0.197 0.197 0.215 0.201   3.42
54)C 1,2-Dichloropropa 0.239 0.244 0.241 0.232 0.228 0.228 0.247 0.237   3.26
55)  Dibromomethane    0.138 0.144 0.140 0.138 0.135 0.136 0.147 0.140   3.08
56)  1,4-Dioxane       0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001  25.10
            ---- Linear regression ----  Coefficient =  0.9988
                Response Ratio = -0.00282 + 0.00139 *A

57)  Bromodichlorometh 0.322 0.329 0.317 0.314 0.309 0.311 0.339 0.320   3.37
58)  2-Nitropropane    0.055 0.058 0.057 0.057 0.054 0.054 0.064 0.057   6.29
59)  2-Chloroethyl vin 0.045 0.043 0.044 0.045 0.048 0.045 0.042 0.044   4.04
60)  4-Methyl-2-pentan 0.028 0.024 0.026 0.028 0.029 0.028 0.026 0.027   5.88
61)  cis-1,3-Dichlorop 0.384 0.384 0.376 0.374 0.370 0.372 0.389 0.378   1.96

62) I   Chlorobenzene-d5      ----------------ISTD---------------------
63)S Toluene-d8        1.135 1.159 1.129 1.156 1.250 1.114 1.168 1.159   3.85
64)C Toluene           0.794 0.787 0.769 0.757 0.858 0.795 0.839 0.800   4.56
65)  Ethyl Methacrylat 0.416 0.372 0.382 0.418 0.467 0.423 0.398 0.411   7.67
66)  trans-1,3-Dichlor 0.471 0.471 0.458 0.463 0.497 0.469 0.476 0.472   2.66
67)  1,1,2-Trichloroet 0.233 0.241 0.231 0.231 0.241 0.230 0.246 0.236   2.80
68)  Tetrachloroethene 0.239 0.247 0.245 0.226 0.245 0.233 0.270 0.244   5.68
69)  2-hexanone        0.206 0.185 0.191 0.204 0.225 0.208 0.190 0.201   6.91
70)  1,3-Dichloropropa 0.478 0.481 0.474 0.478 0.509 0.475 0.516 0.487   3.60
71)  Dibromochlorometh 0.345 0.349 0.337 0.336 0.354 0.344 0.366 0.347   3.03
72)  1,2-Dibromoethane 0.272 0.276 0.276 0.271 0.277 0.266 0.298 0.276   3.63
73)  1-Chlorohexane    0.399 0.394 0.402 0.379 0.384 0.378 0.419 0.394   3.73
74)P Chlorobenzene     0.886 0.908 0.866 0.869 0.893 0.871 0.948 0.892   3.27
75)  1,1,1,2-Tetrachlo 0.303 0.313 0.303 0.303 0.312 0.303 0.325 0.309   2.79
76)C Ethylbenzene      1.489 1.482 1.454 1.437 1.444 1.448 1.553 1.472   2.76
77)  m,p-Xylene        0.584 0.575 0.556 0.559 0.556 0.556 0.583 0.567   2.32
78)  o-Xylene          0.547 0.538 0.531 0.530 0.517 0.529 0.568 0.537   3.06
79)  Styrene           1.009 0.953 0.956 0.966 0.955 0.983 0.997 0.974   2.31
80)P Bromoform         0.208 0.209 0.205 0.210 0.201 0.202 0.229 0.209   4.47

81) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
82)  Isopropylbenzene  2.528 2.466 2.406 2.347 2.674 2.467 2.634 2.503   4.71
83)  Cyclohexanone     0.015 0.011 0.012 0.013 0.019 0.015 0.011 0.014  20.90
            ---- Quadratic regression ----  Coefficient =  0.9999
                Response Ratio = -0.00073 + 0.01188 *A + 0.00036 *A^2

84)S 4-Bromofluorobenz 0.936 0.978 0.923 0.946 1.038 0.904 1.030 0.965   5.42
85)  Bromobenzene      0.838 0.792 0.800 0.786 0.931 0.847 0.835 0.833   5.97
86)P 1,1,2,2-Tetrachlo 0.715 0.714 0.709 0.698 0.774 0.705 0.785 0.729   4.85
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Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2406-ICC2406
Lab FileID: Y0037569.D

87)	Trans-1,4-Dichlor	0.263	0.263	0.251	0.255	0.294	0.268	0.261	0.265	5.31
88)	1,2,3-Trichloropr	0.670	0.672	0.653	0.663	0.771	0.683	0.707	0.688	5.86
89)	n-Propylbenzene	3.562	3.494	3.386	3.295	3.677	3.484	3.651	3.507	3.91
90)	2-Chlorotoluene	2.449	2.422	2.357	2.335	2.565	2.430	2.469	2.432	3.12
91)	4-Chlorotoluene	2.166	2.185	2.097	2.098	2.259	2.118	2.325	2.178	3.97
92)	1,3,5-Trimethylbe	2.337	2.325	2.233	2.226	2.370	2.252	2.402	2.306	3.02
93)	Pentachloroethane	0.422	0.435	0.411	0.437	0.435	0.420	0.445	0.429	2.74
94)	sec-Butylbenzene	2.637	2.664	2.655	2.528	2.665	2.524	2.825	2.643	3.83
95)	1,3-Dichlorobenze	1.342	1.410	1.342	1.324	1.356	1.300	1.438	1.359	3.57
96)	4-Isopropyltoluen	2.142	2.175	2.154	2.077	2.199	2.062	2.297	2.158	3.65
97)	1,4-Dichlorobenze	1.372	1.393	1.409	1.347	1.375	1.313	1.546	1.394	5.32
98)	tert-Butylbenzene	1.154	1.199	1.150	1.116	1.174	1.133	1.236	1.166	3.52
99)	n-Butylbenzene	2.081	2.086	2.098	2.001	2.160	1.980	2.207	2.088	3.86
100)	1,2-Dichlorobenze	1.203	1.256	1.202	1.197	1.240	1.168	1.287	1.222	3.33
101)	1,2,4-Trimethylbe	2.372	2.390	2.323	2.282	2.425	2.314	2.406	2.359	2.25
102)	Hexachloroethane	0.360	0.407	0.376	0.373	0.372	0.345	0.425	0.380	7.17
103)	1,2-Dibromo-3-Chl	0.099	0.103	0.099	0.098	0.111	0.101	0.106	0.102	4.61
104)	1,2,4-Trichlorobe	0.616	0.653	0.621	0.604	0.694	0.578	0.681	0.635	6.63
105)	Hexachlorobutadie	0.302	0.311	0.315	0.292	0.336	0.279	0.331	0.309	6.60
106)	Naphthalene	1.232	1.122	1.144	1.163	1.537	1.229	1.158	1.226	11.69
107)	1,2,3-Trichlorobe	0.511	0.498	0.505	0.495	0.629	0.502	0.531	0.524	9.06

108) I 1,4-Dichlorobenzene-d ----------ISTD----------
109)H TPH-GRO (C6-C10) 0.000# -1.00

(#) = Out of Range

VY2406AP9.M Fri Feb 05 10:28:41 2010

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VY2406-ICV2406
Lab FileID: Y0037574.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration

Min. RRF : 0.001 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	10.24
2		Dichlorodifluoromethane	0.073	0.058	20.5#	74	0.00	4.16
3	P	Chloromethane	0.121	0.107	11.6	86	0.00	4.58
4	C	Vinyl Chloride	0.095	0.086	9.5	90	0.00	4.81
5		Bromomethane	0.082	0.072	12.2	90	0.00	5.48
6		Chloroethane	0.063	0.055	12.7	87	0.00	5.65
7		Trichlorofluoromethane	0.152	0.121	20.4#	76	0.00	6.01
8		Ethyl Alcohol	0.000	0.000#	0.0	91	0.00	6.43
9		Ethyl ether	0.201	0.174	13.4	89	0.00	6.43
10		Acrolein	0.006	0.021	-250.0#	344#	0.00	6.75
11	C	1,1-Dichloroethene	0.099	0.076	23.2#	80	0.00	6.83
12		Freon 113	0.081	0.056	30.9#	70	0.00	6.75
		----------	Amount	Calc.	%Drift		----------	
13		Acetone	200.000	188.743	5.6	93	0.00	6.94
		----------	AvgRF	CCRF	%Dev		----------	
14		Iodomethane	0.203	0.148	27.1#	75	0.00	7.12
15		Methyl acetate	0.150	0.137	8.7	92	0.00	7.32
16		Carbon Disulfide	0.354	0.192	45.8#	56	0.00	7.20
17		Allyl Chloride	0.331	0.294	11.2	90	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
18		Acetonitrile	100.000	393.649	-293.6#	379	0.00	7.42
19		Methylene Chloride	40.000	38.792	3.0	97	0.00	7.53
		----------	AvgRF	CCRF	%Dev		----------	
20		Tert Butyl Alcohol	0.017	0.017	0.0	100	0.00	7.54
21		trans-1,2-Dichloroethene	0.204	0.171	16.2	87	0.00	7.82
22		Acrylonitrile	0.056	0.085	-51.8#	154	0.00	7.89
23		Hexane	0.301	0.170	43.5#	59	0.00	8.02
24		Methyl Tert Butyl Ether	0.539	0.509	5.6	96	0.00	7.75
25	P	1,1-Dichloroethane	0.420	0.367	12.6	91	0.00	8.37
26		Vinyl acetate	0.471	0.377	20.0	81	0.00	8.33
27		Di-isopropyl ether	0.801	0.718	10.4	93	0.00	8.26
28		Chloroprene	0.783	0.277	64.6#	35#	0.00	8.43
29		Ethyl tert-butyl ether	0.665	0.602	9.5	92	0.00	8.67
30		Ethyl Acetate	0.216	0.210	2.8	101	0.00	8.97
31		2,2-Dichloropropane	0.206	0.164	20.4#	84	0.00	9.01
32		cis-1,2-Dichloroethene	0.228	0.212	7.0	97	0.00	9.03
33		2-Butanone	0.021	0.020	4.8	95	0.00	9.01
34		Propionitrile	0.021	0.039	-85.7#	194	0.00	9.18

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2406-ICV2406
Lab FileID: Y0037574.D

35		Bromochloromethane	0.119	0.116	2.5	100	0.00	9.32
		----------	Amount	Calc.	%Drift		----------	
36		Methacrylonitrile	40.000	602.816	-1407.0#	1486	0.00	9.31
		----------	AvgRF	CCRF	%Dev		----------	
37	C	Chloroform	0.408	0.384	5.9	98	0.00	9.34
38		Tetrahydrofuran	0.065	0.042	35.4#	66	0.00	9.57
39		1,1,1-Trichloroethane	0.282	0.242	14.2	90	0.00	9.56
40	S	Dibromofluoromethane	0.229	0.228	0.4	97	0.00	9.53
41		Cyclohexane	0.278	0.179	35.6#	65	0.00	9.57
42		Isobutyl Alcohol	0.007	0.014	-100.0#	192	0.00	9.70
43		1,1-Dichloropropene	0.284	0.236	16.9	88	0.00	9.72
44		n-Butyl Alcohol	0.004	0.008	-100.0#	187	0.00	10.38
45		Carbon Tetrachloride	0.265	0.222	16.2	87	0.00	9.71
46	S	1,2-Dichloroethane-d4	0.276	0.228	17.4	81	0.00	9.95
47		Benzene	0.903	0.784	13.2	91	0.00	9.95
48		1,2-Dichloroethane	0.317	0.310	2.2	99	0.00	10.03
49		tert-amyl methyl ether	0.595	0.548	7.9	93	0.00	9.94
50		Trichloroethene	0.215	0.184	14.4	90	0.00	10.60
51		1-Bromo-2-Chloroethane	0.296	0.272	8.1	93	0.00	11.53
52		Methylcyclohexane	0.291	0.190	34.7#	68	0.00	10.76
53		Methyl Methacrylate	0.201	0.204	-1.5	100	0.00	10.85
54	C	1,2-Dichloropropane	0.237	0.222	6.3	96	0.00	10.89
55		Dibromomethane	0.140	0.137	2.1	100	0.00	11.04
		----------	Amount	Calc.	%Drift		----------	
56		1,4-Dioxane	800.000	655.184	18.1	91	0.00	10.97
		----------	AvgRF	CCRF	%Dev		----------	
57		Bromodichloromethane	0.320	0.302	5.6	97	0.00	11.14
58		2-Nitropropane	0.057	0.058	-1.8	101	0.00	11.42
59		2-Chloroethyl vinyl ether	0.044	0.043	2.3	95	0.00	11.37
60		4-Methyl-2-pentanone	0.027	0.027	0.0	96	0.00	11.68
61		cis-1,3-Dichloropropene	0.378	0.350	7.4	94	0.00	11.59
62	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.38
63	S	Toluene-d8	1.159	1.305	-12.6	115	0.00	11.84
64	C	Toluene	0.800	0.682	14.8	92	0.00	11.91
65		Ethyl Methacrylate	0.411	0.370	10.0	90	0.00	12.08
66		trans-1,3-Dichloropropene	0.472	0.450	4.7	99	0.00	12.15
67		1,1,2-Trichloroethane	0.236	0.226	4.2	100	0.00	12.36
68		Tetrachloroethene	0.244	0.208	14.8	94	0.00	12.46
69		2-hexanone	0.201	0.187	7.0	94	0.00	12.52
70		1,3-Dichloropropane	0.487	0.457	6.2	97	0.00	12.56
71		Dibromochloromethane	0.347	0.333	4.0	101	0.00	12.79
72		1,2-Dibromoethane	0.276	0.266	3.6	100	0.00	12.97
73		1-Chlorohexane	0.394	0.299	24.1#	80	0.00	13.25
74	P	Chlorobenzene	0.892	0.796	10.8	93	0.00	13.42
75		1,1,1,2-Tetrachloroethane	0.309	0.292	5.5	98	0.00	13.47
76	C	Ethylbenzene	1.472	1.247	15.3	88	0.00	13.44
77		m,p-Xylene	0.567	0.486	14.3	88	0.00	13.55
78		o-Xylene	0.537	0.478	11.0	92	0.00	13.99
79		Styrene	0.974	0.850	12.7	90	0.00	14.00
80	P	Bromoform	0.209	0.207	1.0	100	0.00	14.30
81	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.78
82		Isopropylbenzene	2.503	2.377	5.0	102	0.00	14.33
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2406-ICV2406
Lab FileID: Y0037574.D

83		Cyclohexanone	200.000	322.203	-61.1#	175	0.00	14.58
		----------	AvgRF	CCRF	%Dev	----------		
84	S	4-Bromofluorobenzene	0.965	1.521	-57.6#	162	0.00	14.58
85		Bromobenzene	0.833	0.741	11.0	95	0.00	14.78
86	P	1,1,2,2-Tetrachloroethane	0.729	0.694	4.8	100	0.00	14.69
87		Trans-1,4-Dichloro-2-Bute	0.265	0.206	22.3#	81	0.00	14.75
88		1,2,3-Trichloropropane	0.688	0.587	14.7	89	0.00	14.79
89		n-Propylbenzene	3.507	2.865	18.3	88	0.00	14.75
90		2-Chlorotoluene	2.432	2.090	14.1	90	0.00	14.93
91		4-Chlorotoluene	2.178	1.830	16.0	88	0.00	15.04
92		1,3,5-Trimethylbenzene	2.306	1.953	15.3	89	0.00	14.91
93		Pentachloroethane	0.429	0.337	21.4#	78	0.00	15.38
94		sec-Butylbenzene	2.643	2.224	15.9	89	0.00	15.49
95		1,3-Dichlorobenzene	1.359	1.158	14.8	88	0.00	15.72
96		4-Isopropyltoluene	2.158	1.777	17.7	86	0.00	15.61
97		1,4-Dichlorobenzene	1.394	1.191	14.6	89	0.00	15.81
98		tert-Butylbenzene	1.166	1.002	14.1	91	0.00	15.27
99		n-Butylbenzene	2.088	1.631	21.9#	82	0.00	16.03
100		1,2-Dichlorobenzene	1.222	1.104	9.7	93	0.00	16.21
101		1,2,4-Trimethylbenzene	2.359	1.991	15.6	88	0.00	15.32
102		Hexachloroethane	0.380	0.353	7.1	95	0.00	16.44
103		1,2-Dibromo-3-Chloropropa	0.102	0.099	2.9	103	0.00	17.03
104		1,2,4-Trichlorobenzene	0.635	0.489	23.0#	82	0.00	17.92
105		Hexachlorobutadiene	0.309	0.254	17.8	88	0.00	17.99
106		Naphthalene	1.226	1.094	10.8	95	0.00	18.26
107		1,2,3-Trichlorobenzene	0.524	0.418	20.2#	85	0.00	18.54
108	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	101	0.00	15.78
109	H	TPH-GRO (C6-C10)	0.000	4.999	0.0	0#	0.00	11.41

(#) = Out of Range SPCC's out = 0 CCC's out = 1
Y0037569.D VY2406AP9.M Fri Feb 05 10:28:55 2010

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VY2412-CC2406
Lab FileID: Y0037677.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration

Min. RRF : 0.001 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	77	0.00	10.23
2	Dichlorodifluoromethane	0.073	0.065	11.0	67	0.00	4.16
3 P	Chloromethane	0.121	0.117	3.3	71	0.00	4.58
4 C	Vinyl Chloride	0.095	0.101	-6.3	80	0.00	4.80
5	Bromomethane	0.082	0.079	3.7	72	0.00	5.48
6	Chloroethane	0.063	0.064	-1.6	77	0.00	5.65
7	Trichlorofluoromethane	0.152	0.154	-1.3	74	0.00	6.01
8	Ethyl Alcohol	0.000	0.000#	0.0	66	0.00	6.43
9	Ethyl ether	0.201	0.175	12.9	69	0.00	6.43
10	Acrolein	0.006	0.005	16.7	67	0.00	6.75
11 C	1,1-Dichloroethene	0.099	0.098	1.0	74	0.00	6.83
12	Freon 113	0.081	0.081	0.0	73	0.00	6.74
	----------	Amount	Calc.	%Drift		----------	
13	Acetone	100.000	98.698	1.3	74	0.00	6.94
	----------	AvgRF	CCRF	%Dev		----------	
14	Iodomethane	0.203	0.210	-3.4	80	0.00	7.12
15	Methyl acetate	0.150	0.131	12.7	67	0.00	7.31
16	Carbon Disulfide	0.354	0.334	5.6	71	0.00	7.20
17	Allyl Chloride	0.331	0.251	24.2#	60	0.00	7.33
	----------	Amount	Calc.	%Drift		----------	
18	Acetonitrile	50.000	47.336	5.3	71	0.00	7.42
19	Methylene Chloride	20.000	18.322	8.4	71	0.00	7.53
	----------	AvgRF	CCRF	%Dev		----------	
20	Tert Butyl Alcohol	0.017	0.016	5.9	75	0.00	7.53
21	trans-1,2-Dichloroethene	0.204	0.189	7.4	71	0.00	7.82
22	Acrylonitrile	0.056	0.050	10.7	68	0.00	7.89
23	Hexane	0.301	0.278	7.6	70	0.00	8.02
24	Methyl Tert Butyl Ether	0.539	0.493	8.5	71	0.00	7.75
25 P	1,1-Dichloroethane	0.420	0.397	5.5	73	0.00	8.37
26	Vinyl acetate	0.471	0.414	12.1	69	0.00	8.33
27	Di-isopropyl ether	0.801	0.734	8.4	70	0.00	8.26
28	Chloroprene	0.783	0.616	21.3#	62	0.00	8.43
29	Ethyl tert-butyl ether	0.665	0.621	6.6	72	0.00	8.67
30	Ethyl Acetate	0.216	0.200	7.4	74	0.00	8.97
31	2,2-Dichloropropane	0.206	0.194	5.8	71	0.00	9.01
32	cis-1,2-Dichloroethene	0.228	0.210	7.9	71	0.00	9.03
33	2-Butanone	0.021	0.020	4.8	72	0.00	9.01
34	Propionitrile	0.021	0.019	9.5	70	0.00	9.17

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2412-CC2406
Lab FileID: Y0037677.D

35		Bromochloromethane	0.119	0.117	1.7	75	0.00	9.31
		----------	Amount	Calc.	%Drift		----------	
36		Methacrylonitrile	20.000	16.985	15.1	66	0.00	9.31
		----------	AvgRF	CCRF	%Dev		----------	
37	C	Chloroform	0.408	0.376	7.8	72	0.00	9.34
38		Tetrahydrofuran	0.065	0.058	10.8	67	0.00	9.57
39		1,1,1-Trichloroethane	0.282	0.265	6.0	72	0.00	9.56
40	S	Dibromofluoromethane	0.229	0.225	1.7	76	0.00	9.53
41		Cyclohexane	0.278	0.258	7.2	69	0.00	9.57
42		Isobutyl Alcohol	0.007	0.006	14.3	72	0.00	9.69
43		1,1-Dichloropropene	0.284	0.264	7.0	70	0.00	9.72
44		n-Butyl Alcohol	0.004	0.004	0.0	75	0.00	10.38
45		Carbon Tetrachloride	0.265	0.255	3.8	73	0.00	9.71
46	S	1,2-Dichloroethane-d4	0.276	0.254	8.0	71	0.00	9.94
47		Benzene	0.903	0.835	7.5	72	0.00	9.95
48		1,2-Dichloroethane	0.317	0.292	7.9	70	0.00	10.03
49		tert-amyl methyl ether	0.595	0.538	9.6	71	0.00	9.94
50		Trichloroethene	0.215	0.207	3.7	74	0.00	10.60
51		1-Bromo-2-Chloroethane	0.296	0.291	1.7	74	0.00	11.53
52		Methylcyclohexane	0.291	0.279	4.1	71	0.00	10.76
53		Methyl Methacrylate	0.201	0.170	15.4	66	0.00	10.85
54	C	1,2-Dichloropropane	0.237	0.232	2.1	74	0.00	10.89
55		Dibromomethane	0.140	0.133	5.0	73	0.00	11.04
		----------	Amount	Calc.	%Drift		----------	
56		1,4-Dioxane	400.000	444.600	-11.2	100	0.00	10.96
		----------	AvgRF	CCRF	%Dev		----------	
57		Bromodichloromethane	0.320	0.307	4.1	74	0.00	11.14
58		2-Nitropropane	0.057	0.053	7.0	71	0.00	11.42
59		2-Chloroethyl vinyl ether	0.044	0.031	29.5#	53	0.00	11.37
60		4-Methyl-2-pentanone	0.027	0.027	0.0	78	0.00	11.67
61		cis-1,3-Dichloropropene	0.378	0.360	4.8	74	0.00	11.59
62	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00	13.38
63	S	Toluene-d8	1.159	1.007	13.1	75	0.00	11.83
64	C	Toluene	0.800	0.668	16.5	73	0.00	11.91
65		Ethyl Methacrylate	0.411	0.330	19.7	73	0.00	12.08
66		trans-1,3-Dichloropropene	0.472	0.400	15.3	74	0.00	12.15
67		1,1,2-Trichloroethane	0.236	0.206	12.7	75	0.00	12.36
68		Tetrachloroethene	0.244	0.240	1.6	83	0.00	12.46
69		2-hexanone	0.201	0.166	17.4	73	0.00	12.51
70		1,3-Dichloropropane	0.487	0.418	14.2	75	0.00	12.56
71		Dibromochloromethane	0.347	0.308	11.2	77	0.00	12.79
72		1,2-Dibromoethane	0.276	0.251	9.1	77	0.00	12.97
73		1-Chlorohexane	0.394	0.354	10.2	75	0.00	13.25
74	P	Chlorobenzene	0.892	0.809	9.3	79	0.00	13.41
75		1,1,1,2-Tetrachloroethane	0.309	0.291	5.8	81	0.00	13.47
76	C	Ethylbenzene	1.472	1.278	13.2	74	0.00	13.44
77		m,p-Xylene	0.567	0.513	9.5	78	0.00	13.55
78		o-Xylene	0.537	0.484	9.9	77	0.00	13.99
79		Styrene	0.974	0.868	10.9	77	0.00	14.00
80	P	Bromoform	0.209	0.207	1.0	85	0.00	14.30
81	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	15.78
82		Isopropylbenzene	2.503	2.124	15.1	78	0.00	14.33
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VY2412-CC2406
Lab FileID: Y0037677.D

83		Cyclohexanone	100.000	104.932	-4.9	93	0.00	14.57
		----------	AvgRF	CCRF	%Dev	----------		
84	S	4-Bromofluorobenzene	0.965	0.776	19.6	74	0.00	14.58
85		Bromobenzene	0.833	0.748	10.2	83	0.00	14.78
86	P	1,1,2,2-Tetrachloroethane	0.729	0.594	18.5	74	0.00	14.69
87		Trans-1,4-Dichloro-2-Bute	0.265	0.210	20.8#	74	0.00	14.75
88		1,2,3-Trichloropropane	0.688	0.515	25.1#	70	0.00	14.78
89		n-Propylbenzene	3.507	2.903	17.2	76	0.00	14.75
90		2-Chlorotoluene	2.432	2.011	17.3	76	0.00	14.93
91		4-Chlorotoluene	2.178	1.816	16.6	77	0.00	15.04
92		1,3,5-Trimethylbenzene	2.306	2.005	13.1	80	0.00	14.91
93		Pentachloroethane	0.429	0.415	3.3	89	0.00	15.38
94		sec-Butylbenzene	2.643	2.375	10.1	79	0.00	15.49
95		1,3-Dichlorobenzene	1.359	1.295	4.7	85	0.00	15.71
96		4-Isopropyltoluene	2.158	1.936	10.3	80	0.00	15.61
97		1,4-Dichlorobenzene	1.394	1.315	5.7	83	0.00	15.81
98		tert-Butylbenzene	1.166	0.969	16.9	75	0.00	15.27
99		n-Butylbenzene	2.088	1.804	13.6	76	0.00	16.03
100		1,2-Dichlorobenzene	1.222	1.143	6.5	84	0.00	16.21
101		1,2,4-Trimethylbenzene	2.359	2.032	13.9	77	0.00	15.32
102		Hexachloroethane	0.380	0.326	14.2	77	0.00	16.44
103		1,2-Dibromo-3-Chloropropa	0.102	0.075	26.5#	67	0.00	17.03
104		1,2,4-Trichlorobenzene	0.635	0.566	10.9	81	0.00	17.91
105		Hexachlorobutadiene	0.309	0.298	3.6	84	0.00	17.99
106		Naphthalene	1.226	1.141	6.9	88	0.00	18.25
107		1,2,3-Trichlorobenzene	0.524	0.454	13.4	80	0.00	18.54
108	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	89	0.00	15.78
109	H	TPH-GRO (C6-C10)	0.000	4.340	0.0	0#	0.00	11.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y0037568.D VY2406AP9.M Tue Feb 09 10:08:36 2010

5.7.8

5

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058897.D
Acq On : 7 Feb 2010 4:04 pm
Operator : jennl
Sample : t46705-1
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 08 09:37:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

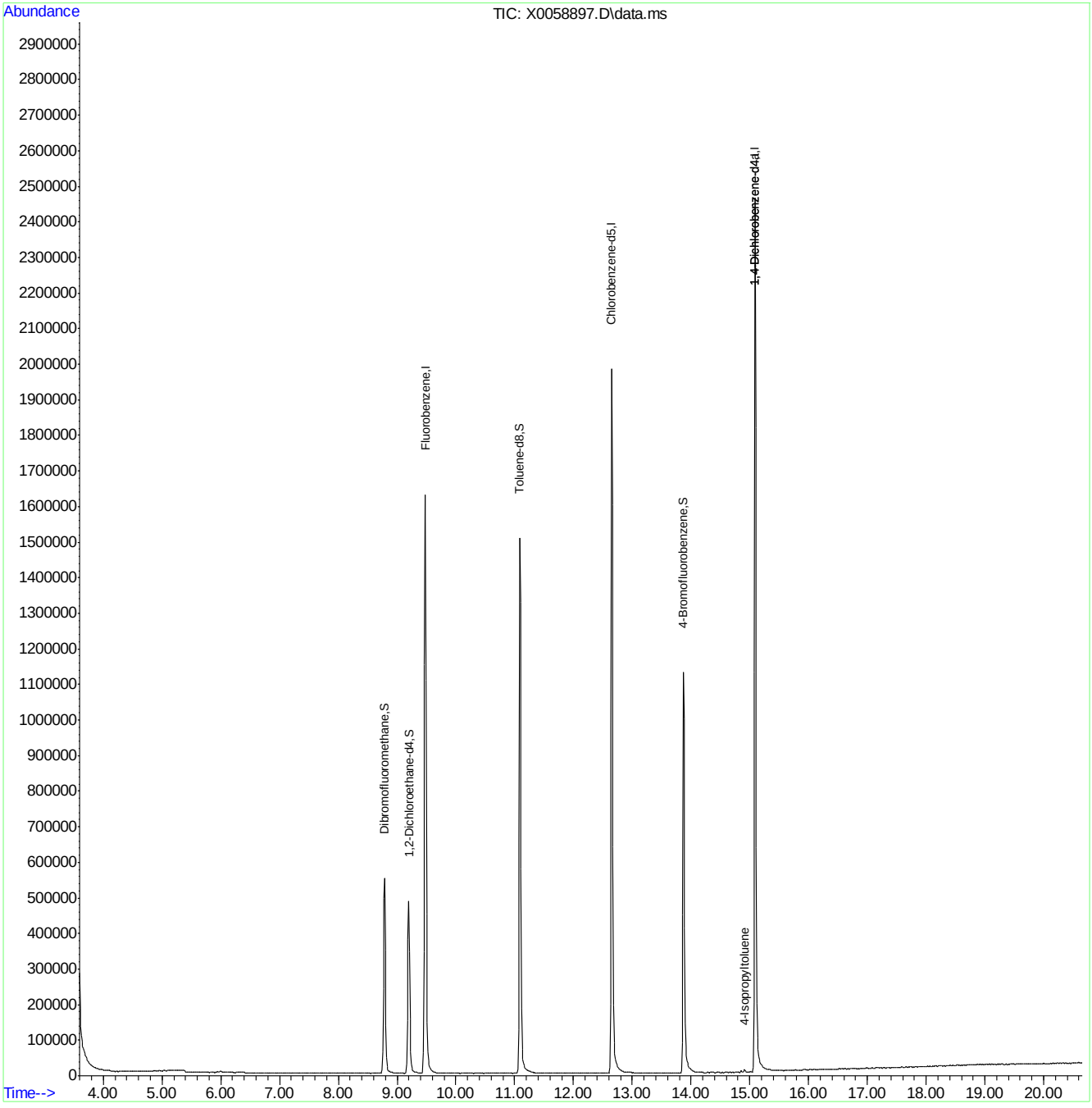
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	9.478	96	1551727	50.00 ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1286238	50.00 ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	745920	50.00 ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	745920	50.00 ug/L	-0.01
System Monitoring Compounds					
39) Dibromofluoromethane	8.787	113	377070	55.33 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 110.66%		
44) 1,2-Dichloroethane-d4	9.197	65	419323	61.10 ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 122.20%#		
61) Toluene-d8	11.086	98	1119515	52.12 ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 104.24%		
82) 4-Bromofluorobenzene	13.869	95	447115	46.51 ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 93.02%		
Target Compounds					Qvalue
94) 4-Isopropyltoluene	14.916	119	5244	0.43 ug/L	98

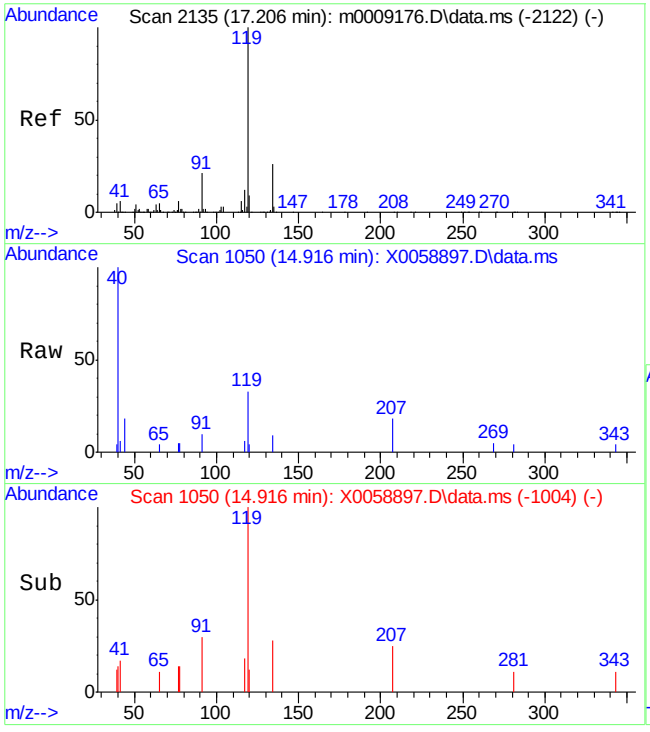
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058897.D
Acq On : 7 Feb 2010 4:04 pm
Operator : jennl
Sample : t46705-1
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 08 09:37:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

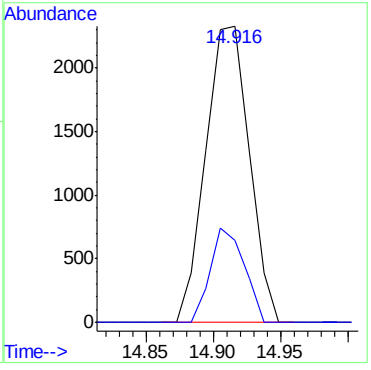




#94
4-Isopropyltoluene
Concen: 0.43 ug/L
RT: 14.916 min Scan# 1050
Delta R.T. 0.000 min
Lab File: X0058897.D
Acq: 7 Feb 2010 4:04 pm

Tgt Ion:119 Resp: 5244

Ion	Ratio	Lower	Upper
119	100		
134	27.6	0.0	56.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058930.D
Acq On : 8 Feb 2010 6:26 pm
Operator : jennl
Sample : t46705-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 09 10:22:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

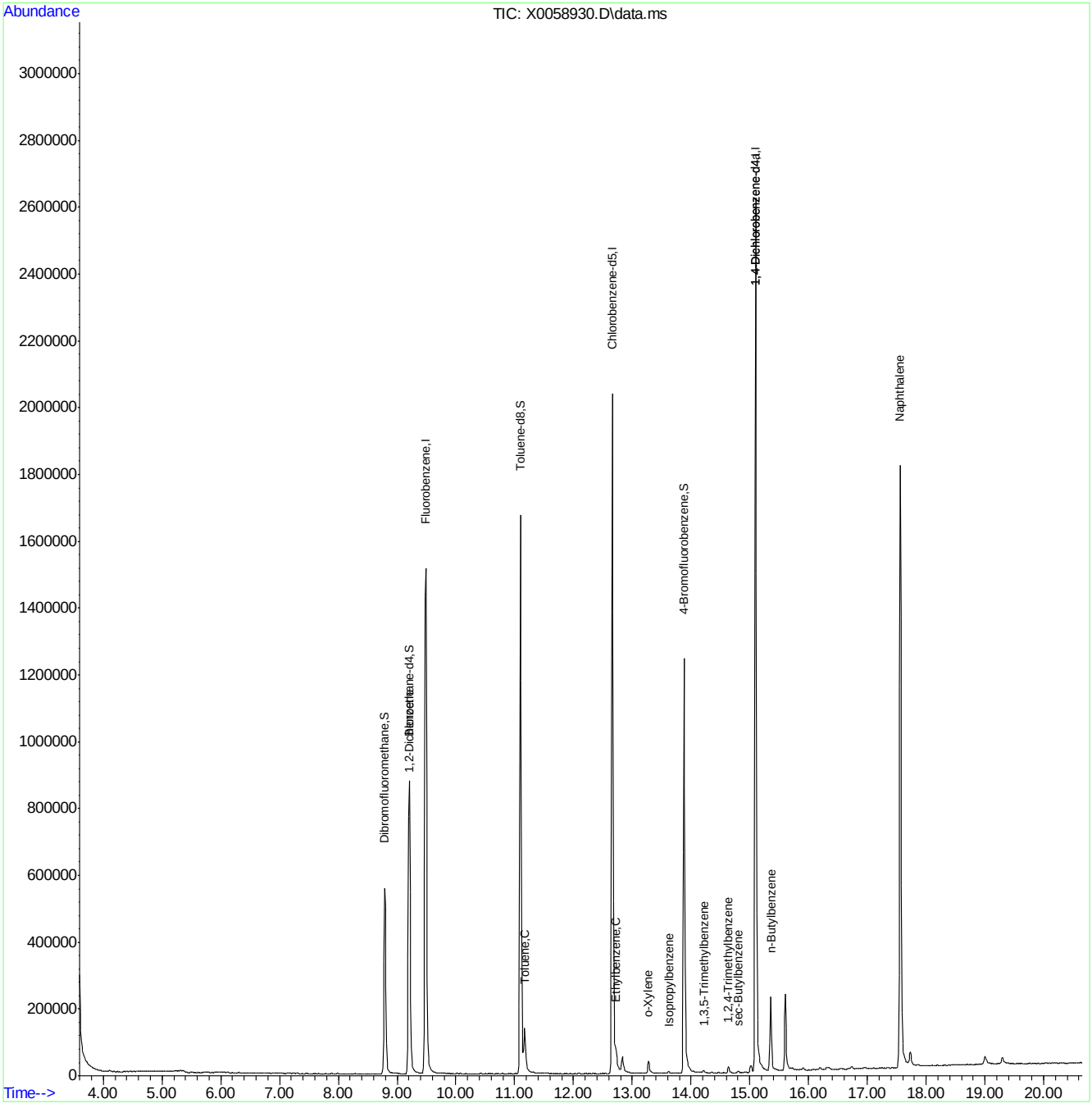
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1558034	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1310109	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	793917	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	793917	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.788	113	382876	50.61	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 101.22%			
44) 1,2-Dichloroethane-d4	9.198	65	428144	50.87	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 101.74%			
61) Toluene-d8	11.097	98	1186672	55.57	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 111.14%			
82) 4-Bromofluorobenzene	13.880	95	469165	48.38	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 96.76%			
Target Compounds						Qvalue
45) Benzene	9.208	78	398644	17.76	ug/L	68
62) Toluene	11.172	91	101634	4.28	ug/L	98
74) Ethylbenzene	12.715	91	30229	1.05	ug/L	95
76) o-Xylene	13.276	91	28789	1.77	ug/L	94
80) Isopropylbenzene	13.621	105	3994	2.09	ug/L	96
90) 1,3,5-Trimethylbenzene	14.215	105	6073	1.19	ug/L	98
92) sec-Butylbenzene	14.797	105	5116	1.33	ug/L	94
97) n-Butylbenzene	15.358	91	22877	1.52	ug/L #	45
99) 1,2,4-Trimethylbenzene	14.636	105	14261	1.23	ug/L	98
104) Naphthalene	17.560	128	1765089	58.63	ug/L	100

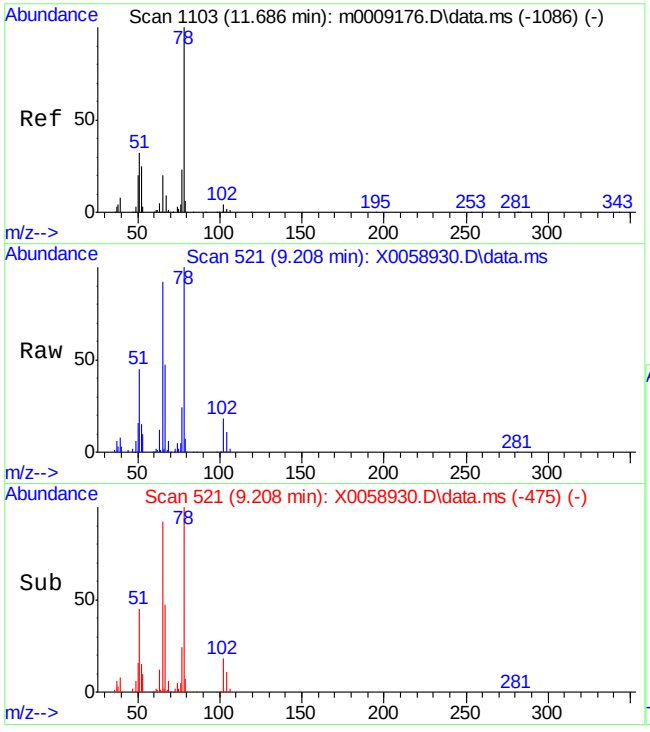
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058930.D
Acq On : 8 Feb 2010 6:26 pm
Operator : jennl
Sample : t46705-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 09 10:22:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

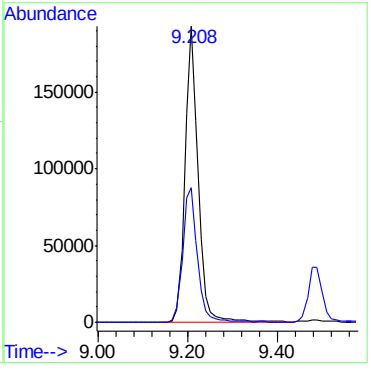


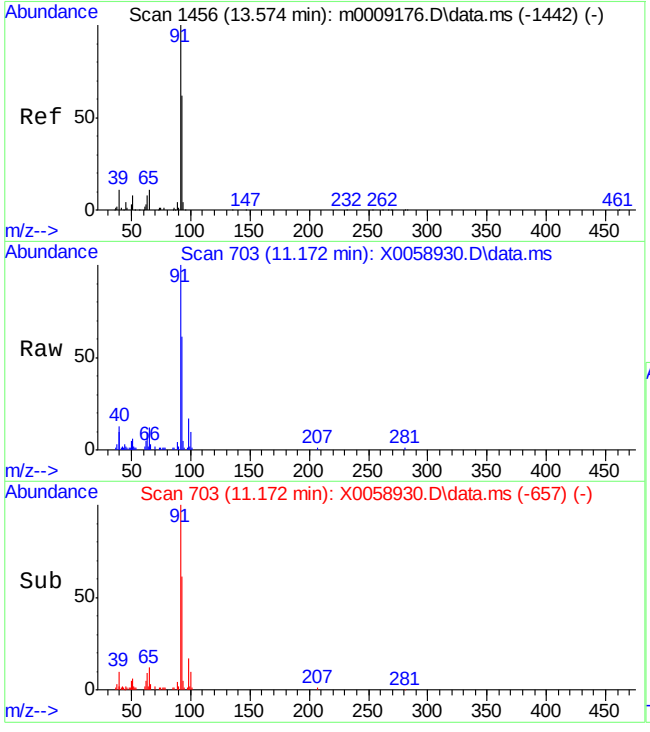


#45
Benzene
Concen: 17.76 ug/L
RT: 9.208 min Scan# 521
Delta R.T. 0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion: 78 Resp: 398644

Ion	Ratio	Lower	Upper
78	100		
51	45.3	0.0	58.5

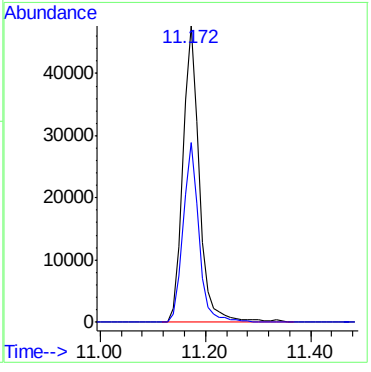


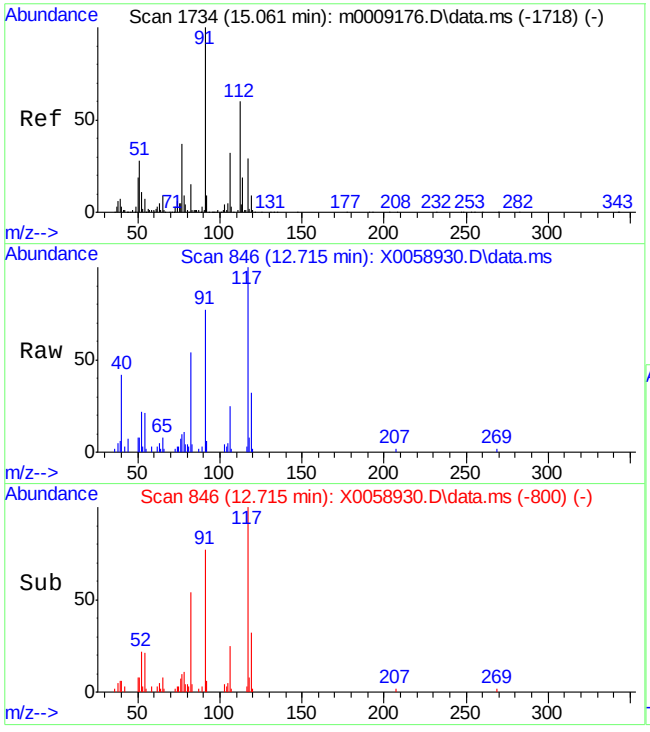


#62
Toluene
Concen: 4.28 ug/L
RT: 11.172 min Scan# 703
Delta R.T. 0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion: 91 Resp: 101634

Ion	Ratio	Lower	Upper
91	100		
92	60.7	29.0	89.0

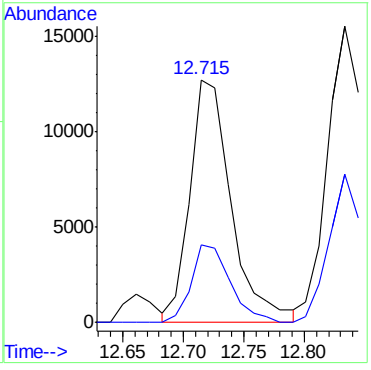


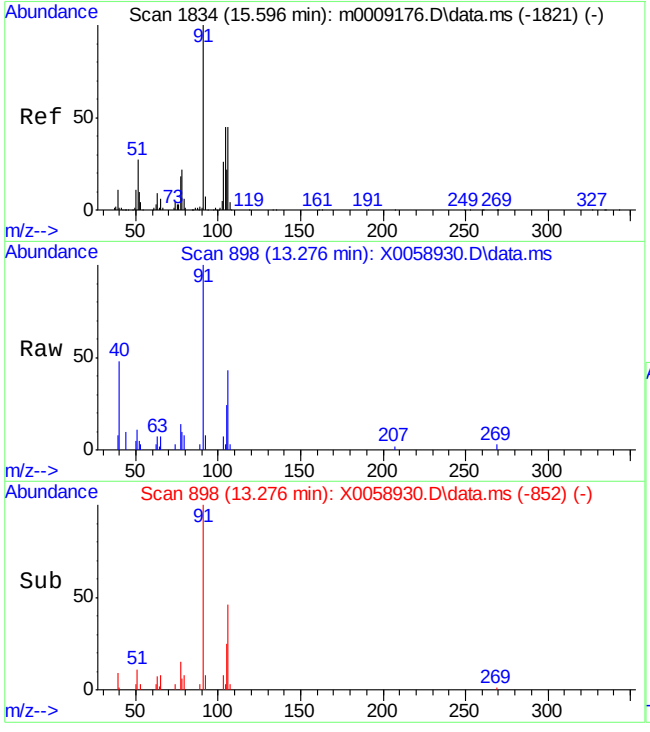


#74
Ethylbenzene
Concen: 1.05 ug/L
RT: 12.715 min Scan# 846
Delta R.T. -0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion: 91 Resp: 30229

Ion	Ratio	Lower	Upper
91	100		
106	33.4	0.8	60.8

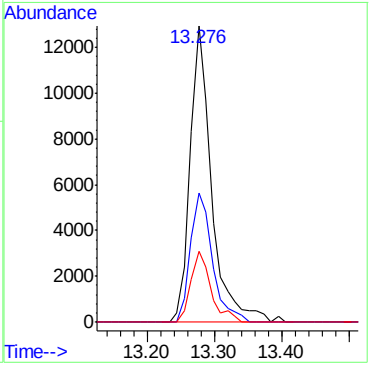


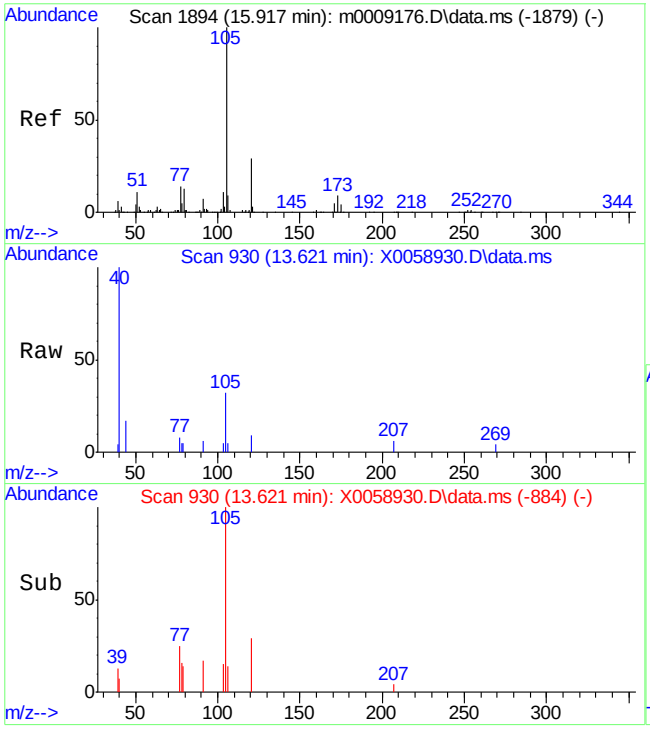


#76
o-Xylene
Concen: 1.77 ug/L
RT: 13.276 min Scan# 898
Delta R.T. 0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion: 91 Resp: 28789

Ion	Ratio	Lower	Upper
91	100		
106	43.5	17.6	77.6
105	24.0	0.0	50.7

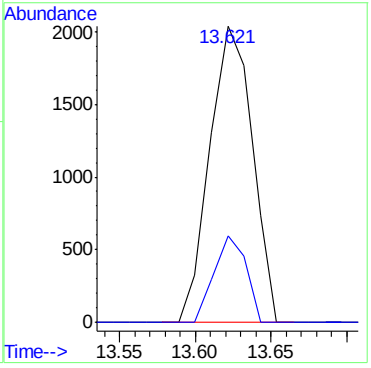


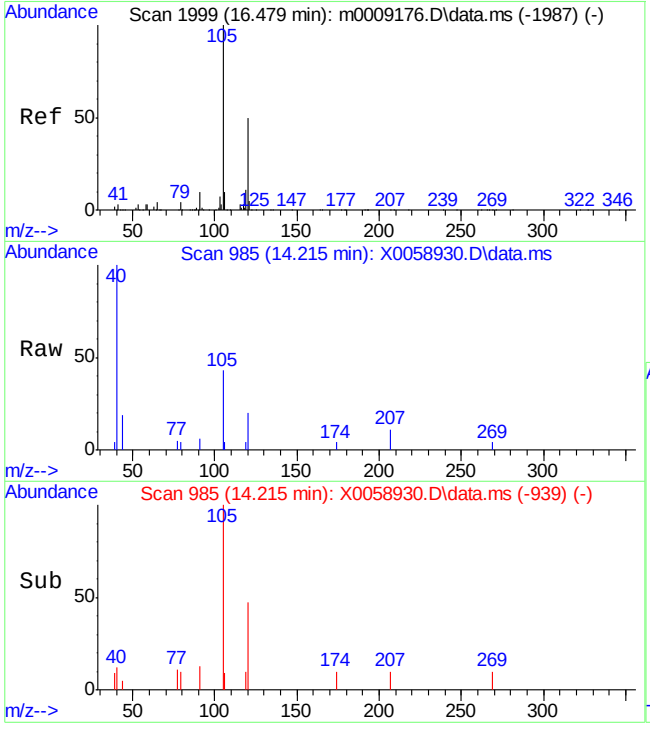


#80
Isopropylbenzene
Concen: 2.09 ug/L
RT: 13.621 min Scan# 930
Delta R.T. 0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion:105 Resp: 3994

Ion	Ratio	Lower	Upper
105	100		
120	29.2	0.0	57.2

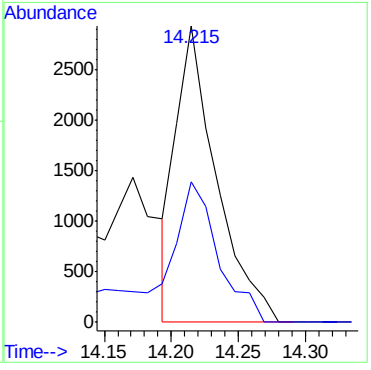


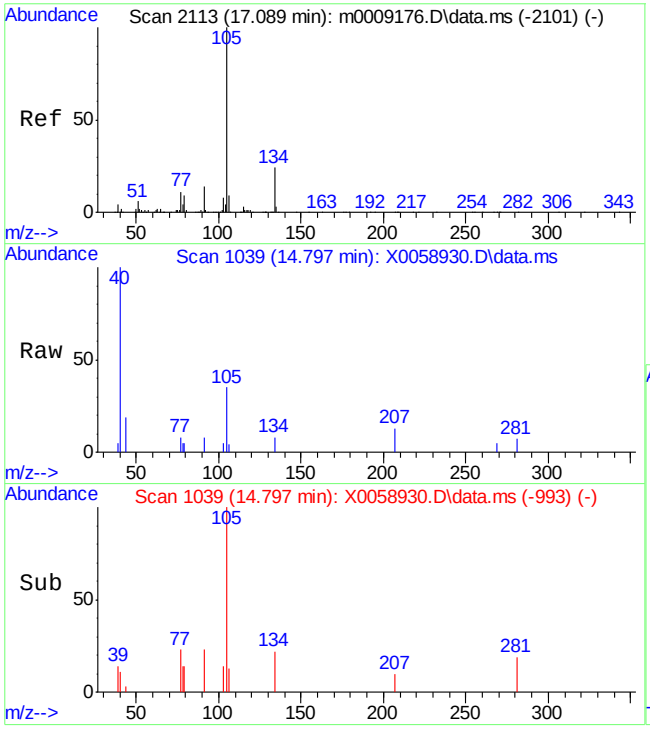


#90
1,3,5-Trimethylbenzene
Concen: 1.19 ug/L
RT: 14.215 min Scan# 985
Delta R.T. -0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion:105 Resp: 6073

Ion	Ratio	Lower	Upper
105	100		
120	47.4	18.9	78.9

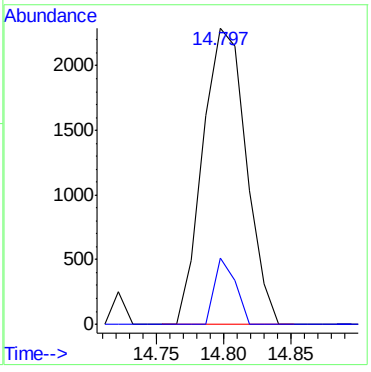


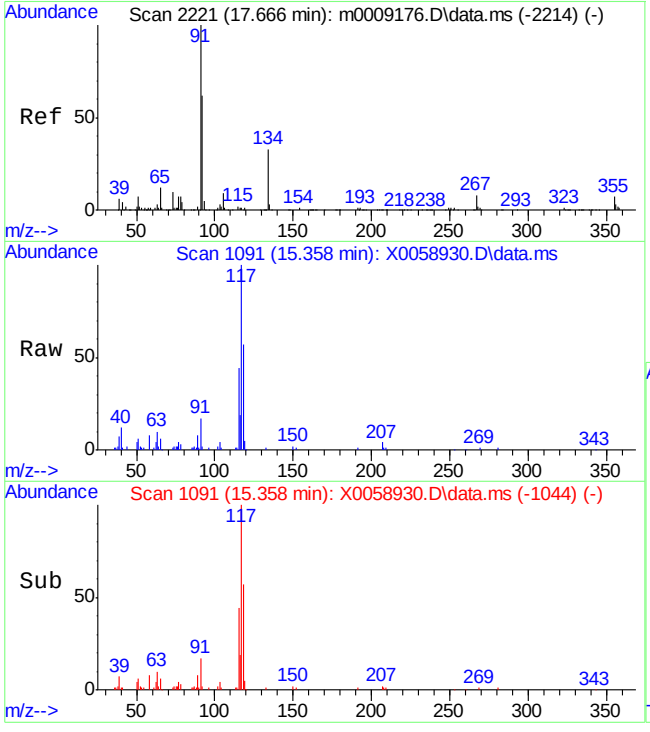


#92
sec-Butylbenzene
Concen: 1.33 ug/L
RT: 14.797 min Scan# 1039
Delta R.T. 0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion:105 Resp: 5116

Ion	Ratio	Lower	Upper
105	100		
134	22.4	0.0	49.7

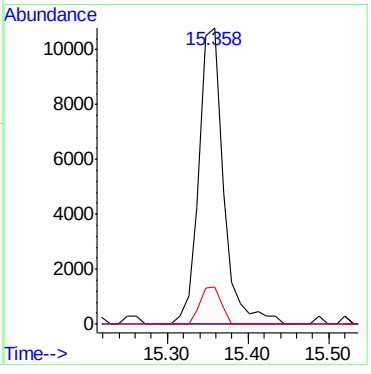


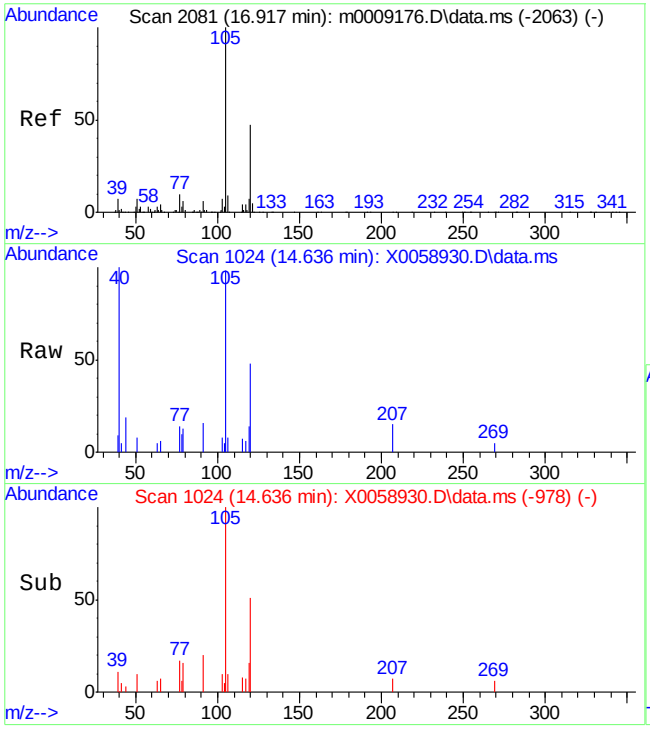


#97
n-Butylbenzene
Concen: 1.52 ug/L
RT: 15.358 min Scan# 1091
Delta R.T. 0.010 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion: 91 Resp: 22877

Ion	Ratio	Lower	Upper
91	100		
134	0.0	0.0	55.8
92	12.7	23.8	83.8#

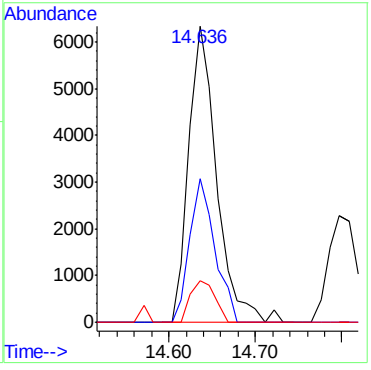


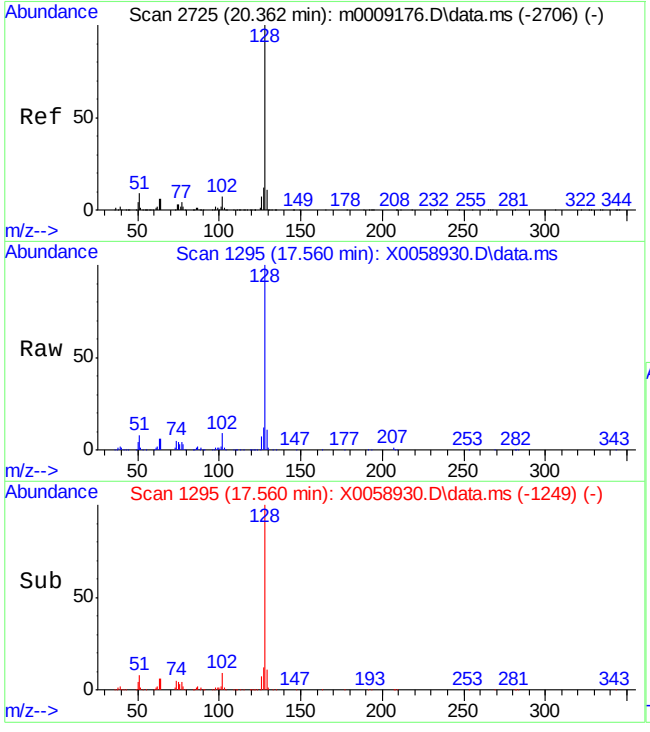


#99
1,2,4-Trimethylbenzene
Concen: 1.23 ug/L
RT: 14.636 min Scan# 1024
Delta R.T. -0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion:105 Resp: 14261

Ion	Ratio	Lower	Upper
105	100		
120	48.6	17.3	77.3
119	14.2	0.0	42.7

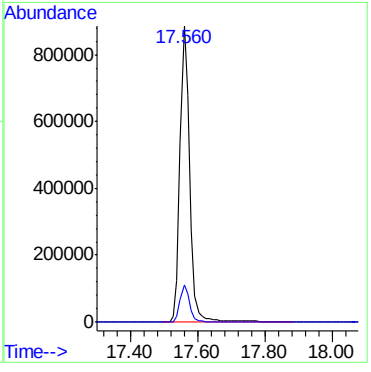




#104
Naphthalene
Concen: 58.63 ug/L
RT: 17.560 min Scan# 1295
Delta R.T. -0.000 min
Lab File: X0058930.D
Acq: 8 Feb 2010 6:26 pm

Tgt Ion:128 Resp: 1765089

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058902.D
Acq On : 7 Feb 2010 6:27 pm
Operator : jennl
Sample : t46705-3
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 08 09:42:40 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

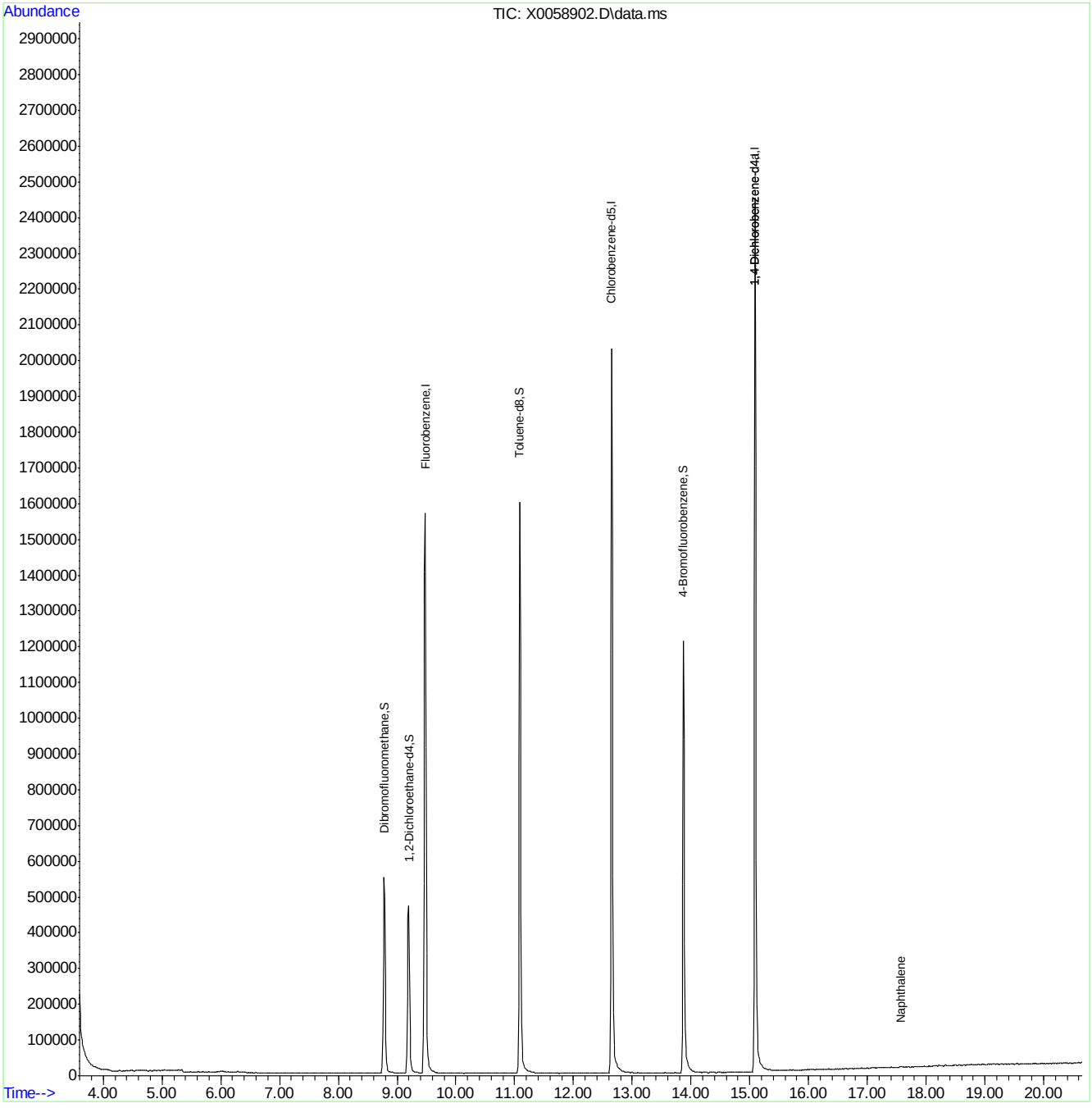
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1571118	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1313946	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	744064	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	744064	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.777	113	377535	54.71	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.42%			
44) 1,2-Dichloroethane-d4	9.198	65	420932	60.57	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 121.14%#			
61) Toluene-d8	11.086	98	1135721	51.76	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 103.52%			
82) 4-Bromofluorobenzene	13.870	95	459579	47.90	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 95.80%			
Target Compounds						Qvalue
104) Naphthalene	17.570	128	4060	2.91	ug/L	77

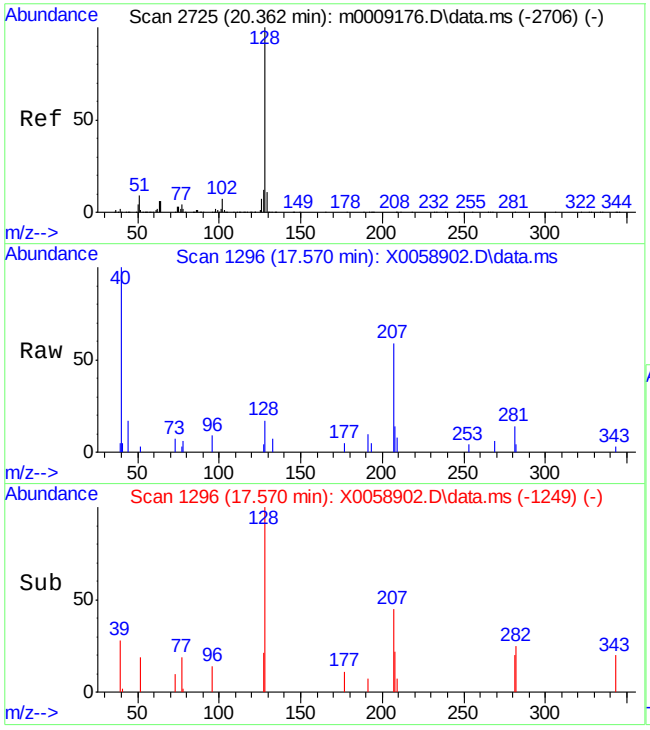
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058902.D
Acq On : 7 Feb 2010 6:27 pm
Operator : jennl
Sample : t46705-3
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 08 09:42:40 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

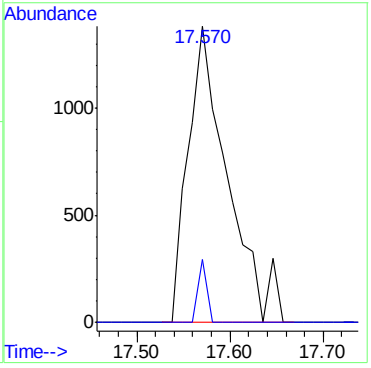




#104
Naphthalene
Concen: 2.91 ug/L
RT: 17.570 min Scan# 1296
Delta R.T. 0.011 min
Lab File: X0058902.D
Acq: 7 Feb 2010 6:27 pm

Tgt Ion:128 Resp: 4060

Ion	Ratio	Lower	Upper
128	100		
127	21.4	0.0	42.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058903.D
Acq On : 7 Feb 2010 6:56 pm
Operator : jennl
Sample : t46705-4
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 08 09:43:39 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

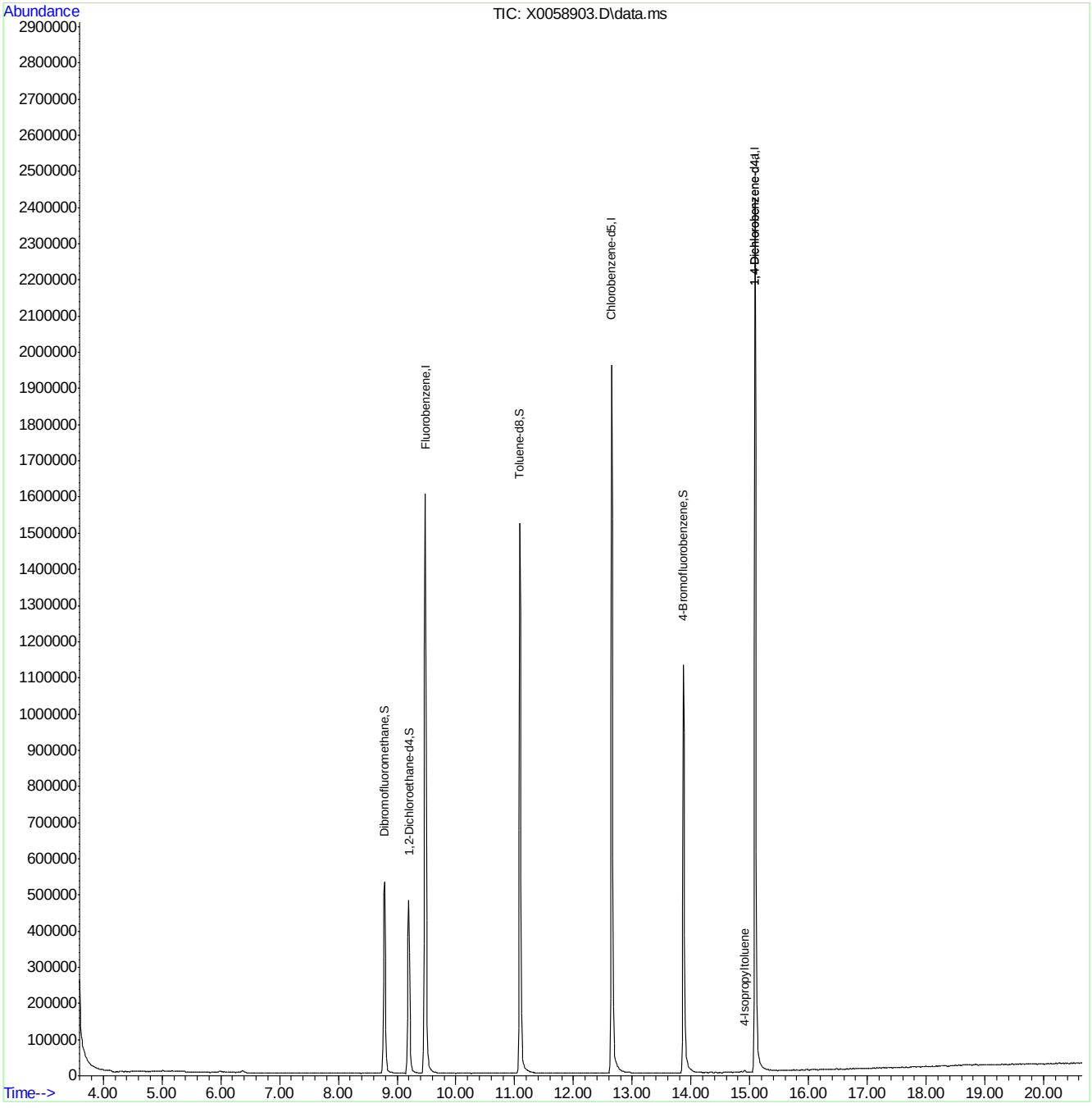
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1522941	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1266515	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	728489	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	728489	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	369271	55.21	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 110.42%			
44) 1,2-Dichloroethane-d4	9.197	65	414277	61.50	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 123.00%#			
61) Toluene-d8	11.086	98	1107883	52.38	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 104.76%			
82) 4-Bromofluorobenzene	13.869	95	437537	46.60	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 93.20%			
Target Compounds						Qvalue
94) 4-Isopropyltoluene	14.905	119	4247	0.40	ug/L	92

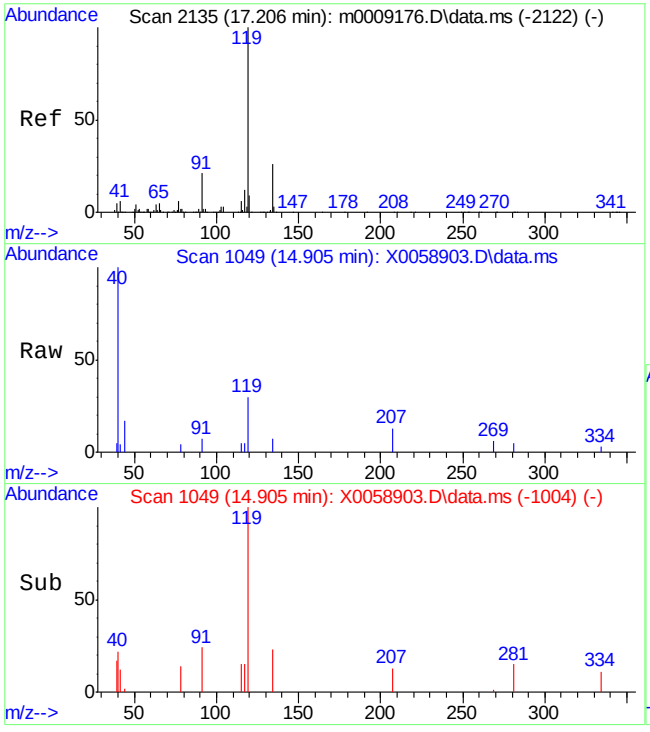
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058903.D
Acq On : 7 Feb 2010 6:56 pm
Operator : jennl
Sample : t46705-4
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 08 09:43:39 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

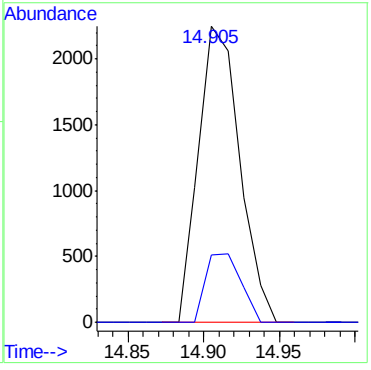




#94
4-Isopropyltoluene
Concen: 0.40 ug/L
RT: 14.905 min Scan# 1049
Delta R.T. -0.011 min
Lab File: X0058903.D
Acq: 7 Feb 2010 6:56 pm

Tgt Ion:119 Resp: 4247

Ion	Ratio	Lower	Upper
119	100		
134	22.6	0.0	56.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058904.D
Acq On : 7 Feb 2010 7:25 pm
Operator : jennl
Sample : t46705-5
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 08 09:44:56 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

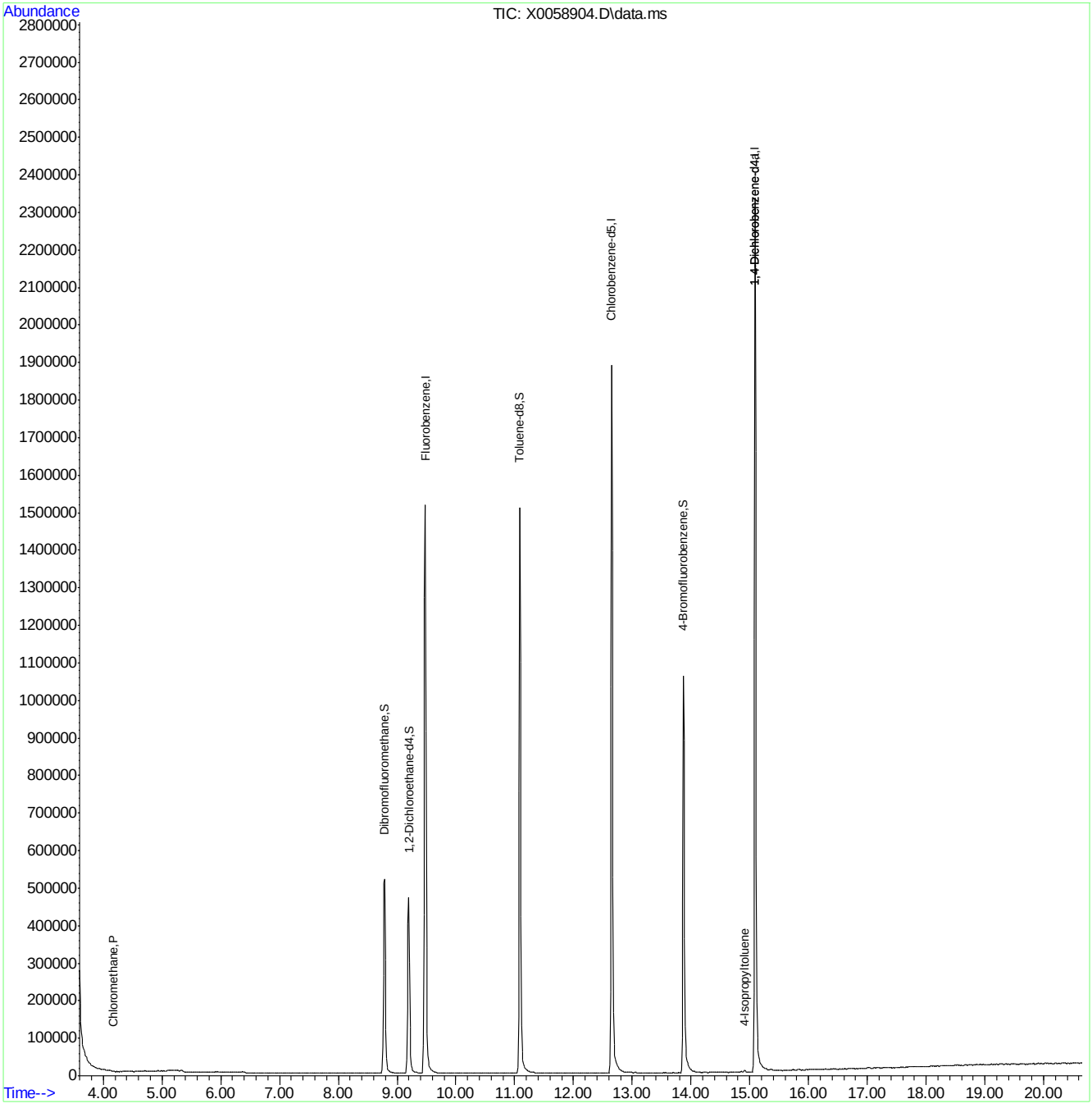
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1467194	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1204333	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	699048	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	699048	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	362456	56.25	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 112.50%			
44) 1,2-Dichloroethane-d4	9.197	65	406353	62.62	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 125.24%#			
61) Toluene-d8	11.086	98	1039272	51.67	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 103.34%			
82) 4-Bromofluorobenzene	13.869	95	418231	46.42	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.84%			
Target Compounds						Qvalue
3) Chloromethane	4.169	50	930	0.24	ug/L #	44
94) 4-Isopropyltoluene	14.916	119	4182	0.40	ug/L	88

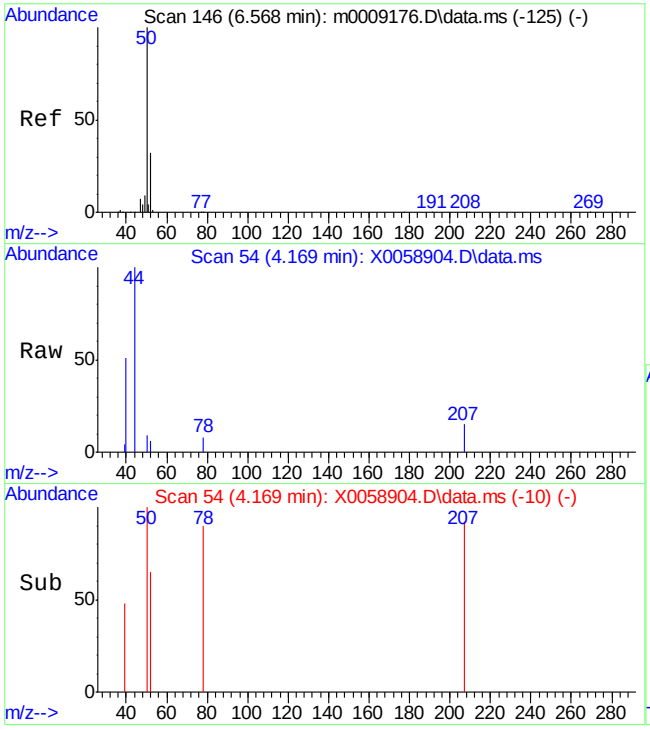
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058904.D
Acq On : 7 Feb 2010 7:25 pm
Operator : jennl
Sample : t46705-5
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 08 09:44:56 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

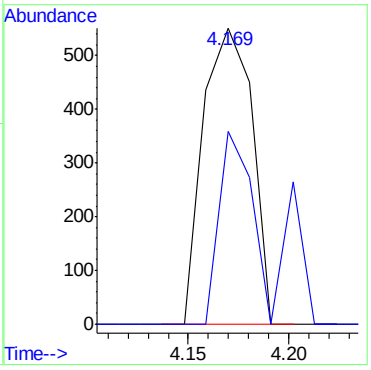


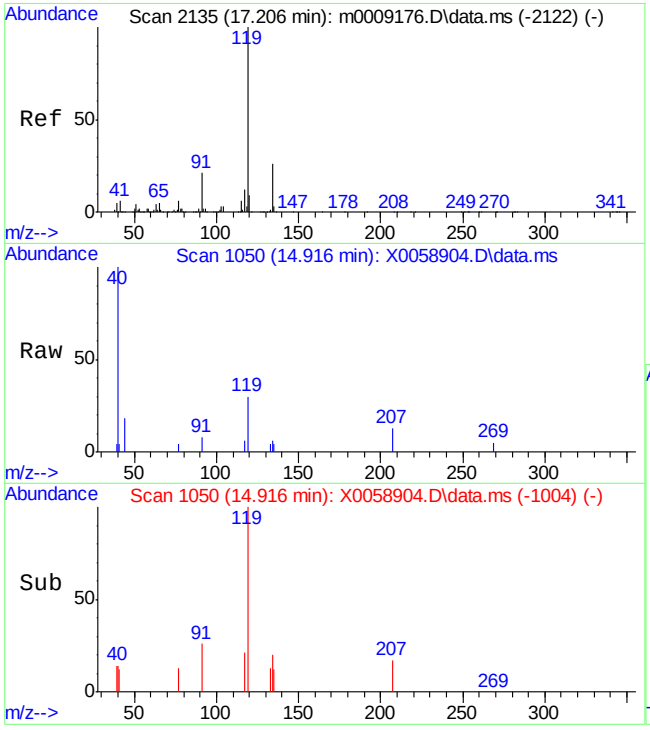


#3
Chloromethane
Concen: 0.24 ug/L
RT: 4.169 min Scan# 54
Delta R.T. -0.022 min
Lab File: X0058904.D
Acq: 7 Feb 2010 7:25 pm

Tgt Ion: 50 Resp: 930

Ion	Ratio	Lower	Upper
50	100		
52	65.2	3.3	63.3#

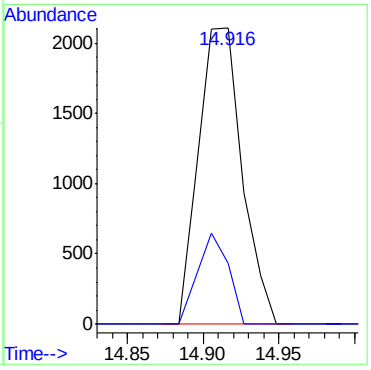




#94
4-Isopropyltoluene
Concen: 0.40 ug/L
RT: 14.916 min Scan# 1050
Delta R.T. 0.000 min
Lab File: X0058904.D
Acq: 7 Feb 2010 7:25 pm

Tgt Ion:119 Resp: 4182

Ion	Ratio	Lower	Upper
119	100		
134	20.4	0.0	56.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037692.D Vial: 17
Acq On : 8 Feb 2010 6:02 pm Operator: jennl
Sample : t46705-6,100x Inst : GCMS_Y
Misc : ms7504,vy2412,5.09,,100,5,2,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:18 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	577045	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	372563	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	134119	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	134119	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	141260	53.34	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 106.68%			
46) 1,2-Dichloroethane-d4	9.94	65	138613	43.50	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 87.00%			
63) Toluene-d8	11.84	98	501873	58.13	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 116.26%			
84) 4-Bromofluorobenzene	14.58	95	126521	48.88	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 97.76%			

Target Compounds

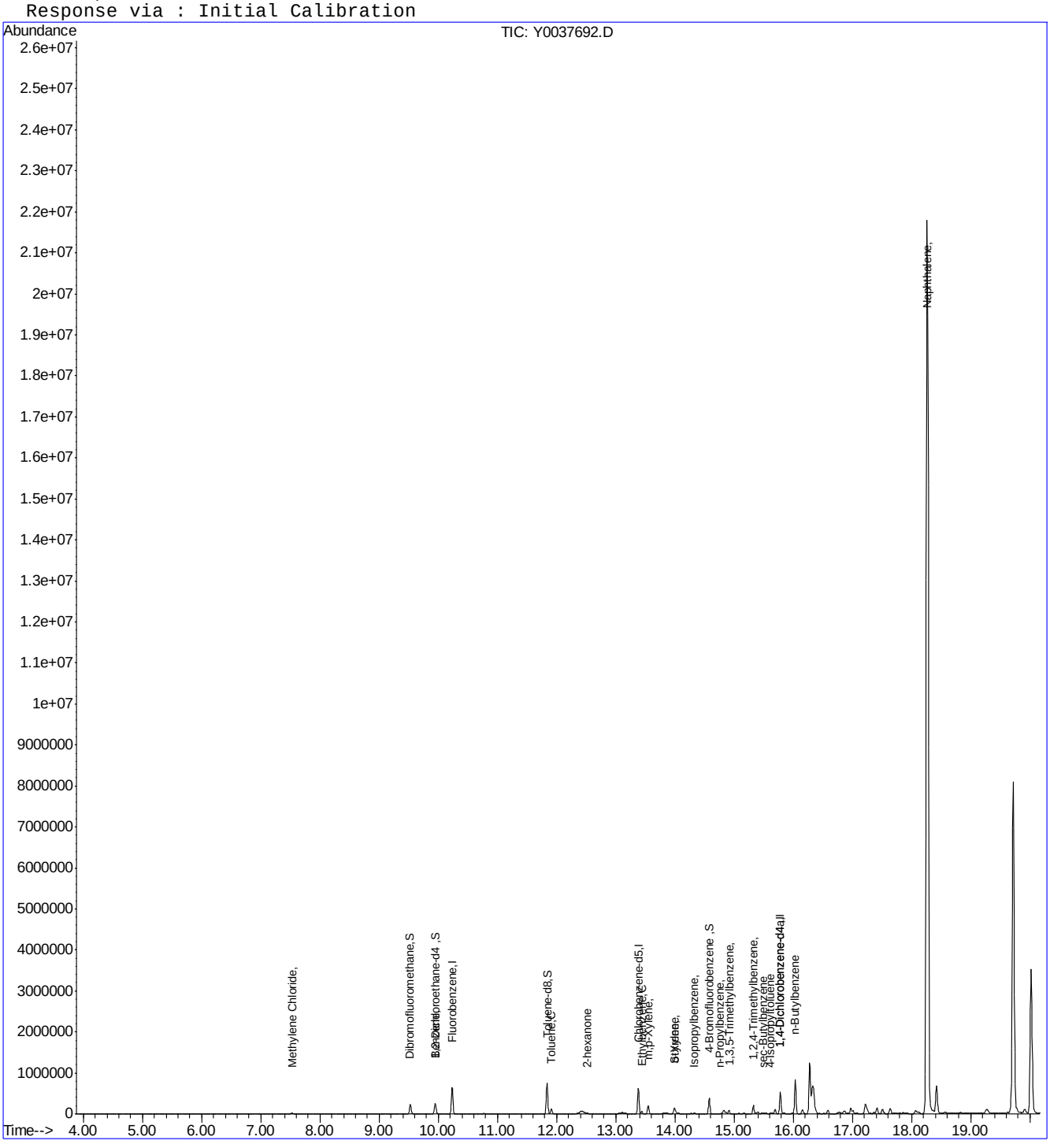
						Qvalue
19) Methylene Chloride	7.53	84	6520	0.76	ug/kg	98
47) Benzene	9.95	78	60493	5.80	ug/kg#	15
64) Toluene	11.91	92	55820	9.37	ug/kg	96
69) 2-hexanone	12.52	43	10049	6.70	ug/kg	89
76) Ethylbenzene	13.44	91	52054	4.75	ug/kg	96
77) m,p-Xylene	13.54	106	63512	15.03	ug/kg	95
78) o-Xylene	13.99	106	33183	8.29	ug/kg	94
79) Styrene	14.00	104	26326	3.63	ug/kg	99
82) Isopropylbenzene	14.33	105	13997	2.08	ug/kg	97
89) n-Propylbenzene	14.75	91	5404	0.57	ug/kg	98
92) 1,3,5-Trimethylbenzene	14.91	105	47016	7.60	ug/kg	98
94) sec-Butylbenzene	15.49	105	12032	1.70	ug/kg	95
96) 4-Isopropyltoluene	15.61	119	7854	1.36	ug/kg	97
99) n-Butylbenzene	16.03	91	71531	12.77	ug/kg#	44
101) 1,2,4-Trimethylbenzene	15.32	105	121107	19.14	ug/kg	97
106) Naphthalene	18.26	128	22784375	6926.16	ug/kg	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037692.D VY2406AP9.M Tue Feb 09 11:38:07 2010

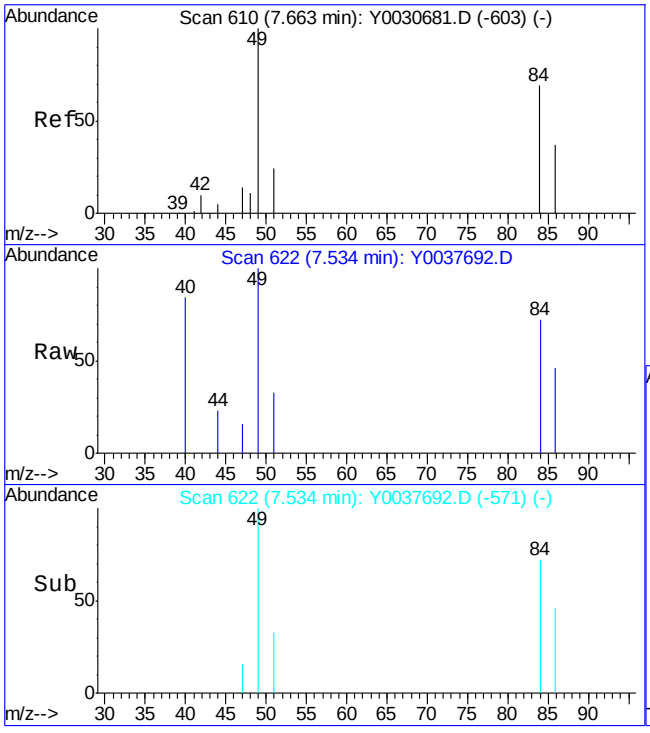
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037692.D Vial: 17
Acq On : 8 Feb 2010 6:02 pm Operator: jennl
Sample : t46705-6,100x Inst : GCMS_Y
Misc : ms7504,vy2412,5.09,,100,5,2,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:58 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration



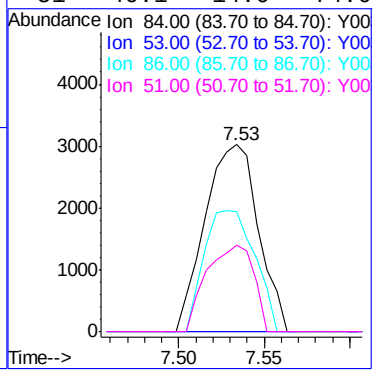
Y0037692.D VY2406AP9.M Tue Feb 09 11:38:07 2010 Page 2

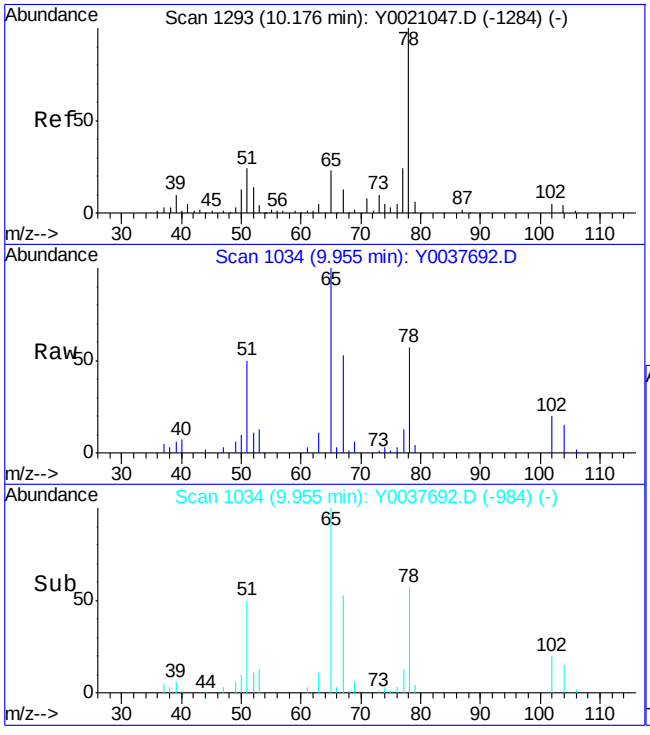


#19
Methylene Chloride
Concen: 0.76 ug/kg
RT: 7.53 min Scan# 622
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 84 Resp: 6520

Ion	Ratio	Lower	Upper
84	100		
53	0.0	0.0	30.0
86	64.0	33.4	93.4
51	46.1	14.0	74.0

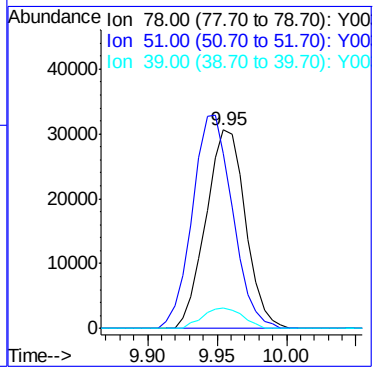


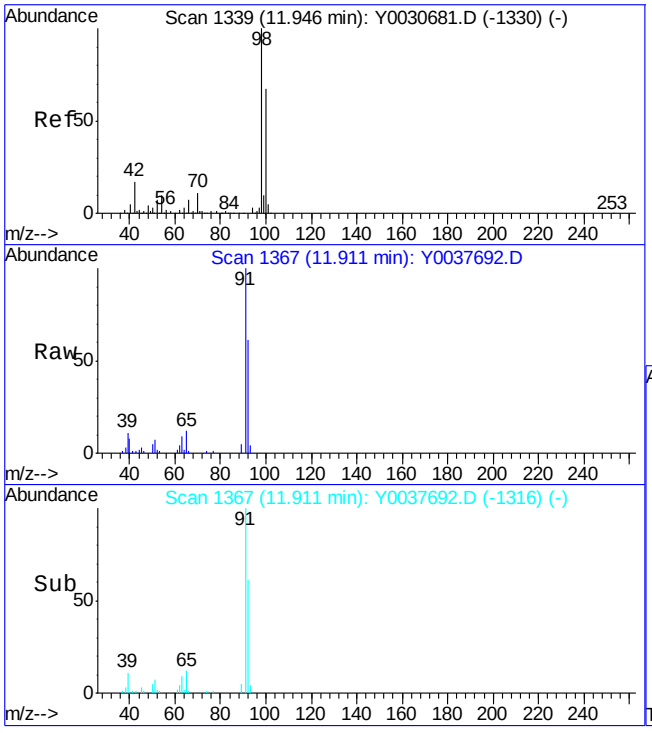


#47
Benzene
Concen: 5.80 ug/kg
RT: 9.95 min Scan# 1034
Delta R.T. -0.01 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 78 Resp: 60493

Ion	Ratio	Lower	Upper
78	100		
51	88.1	0.0	56.2#
39	10.1	0.0	41.9

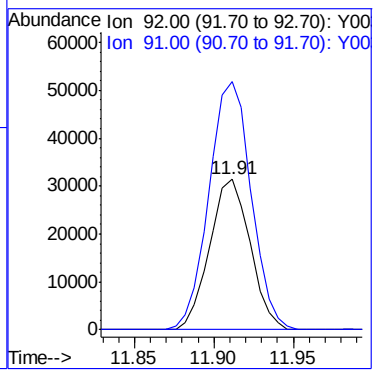


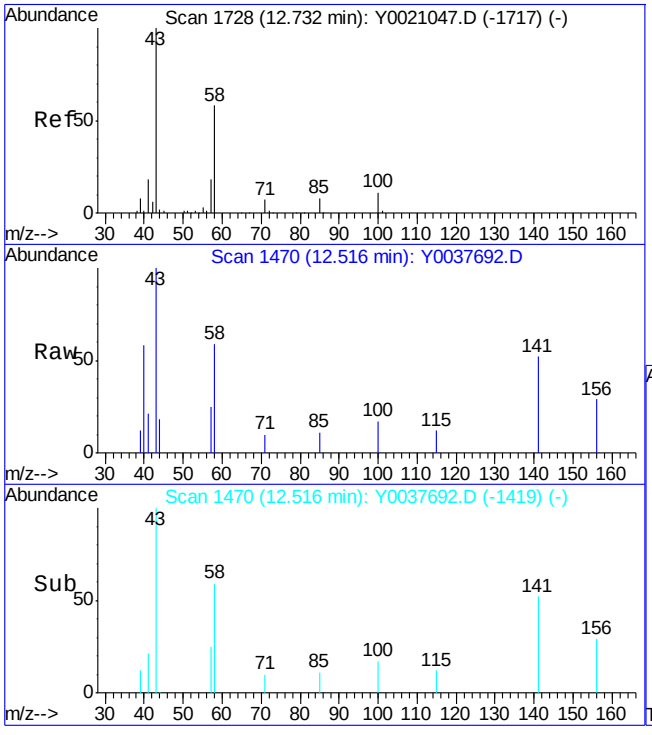


#64
Toluene
Concen: 9.37 ug/kg
RT: 11.91 min Scan# 1367
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 92 Resp: 55820

Ion	Ratio	Lower	Upper
92	100		
91	164.4	139.9	199.9

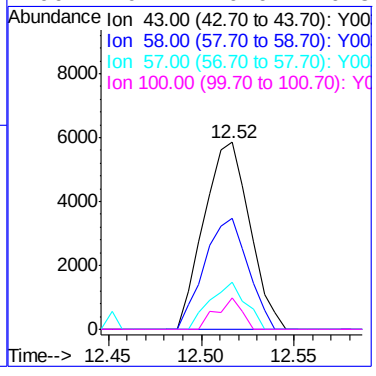


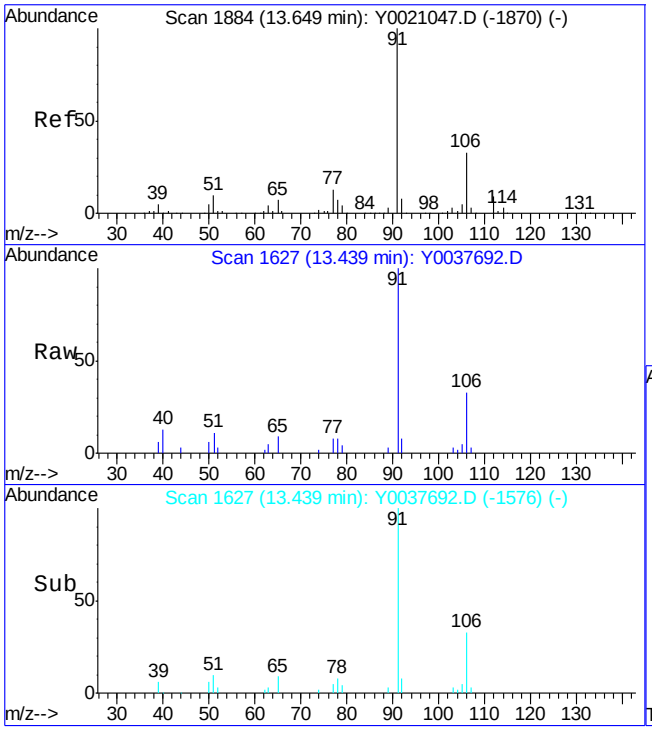


#69
2-hexanone
Concen: 6.70 ug/kg
RT: 12.52 min Scan# 1470
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 43 Resp: 10049

Ion	Ratio	Lower	Upper
43	100		
58	59.2	22.6	82.6
57	25.0	0.0	48.9
100	16.7	0.0	40.8

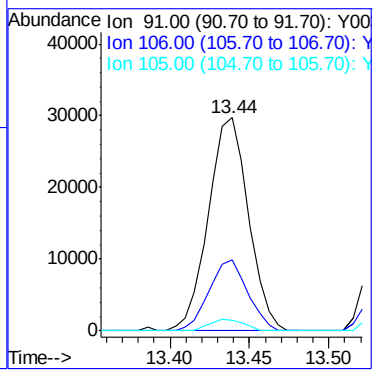


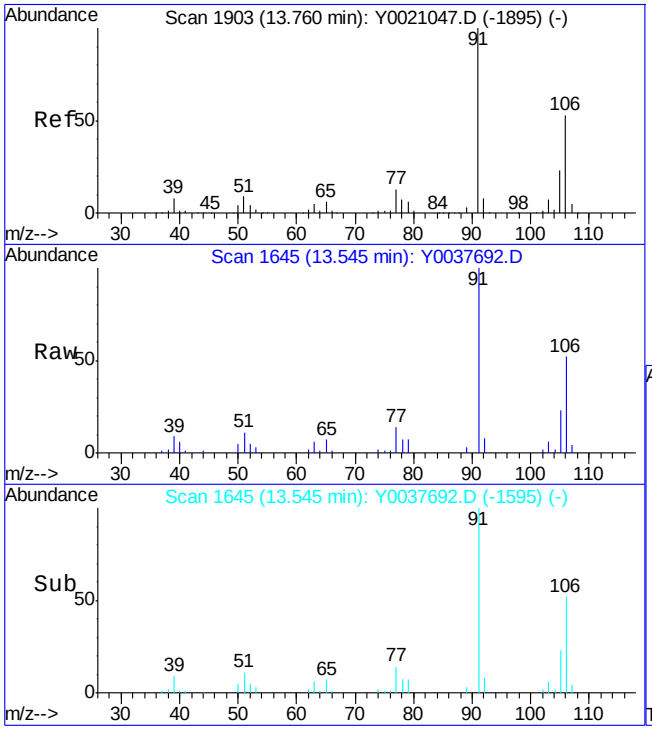


#76
Ethylbenzene
Concen: 4.75 ug/kg
RT: 13.44 min Scan# 1627
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 91 Resp: 52054

Ion	Ratio	Lower	Upper
91	100		
106	33.4	0.7	60.7
105	5.1	0.0	34.9

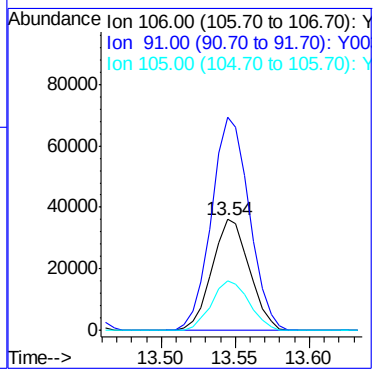


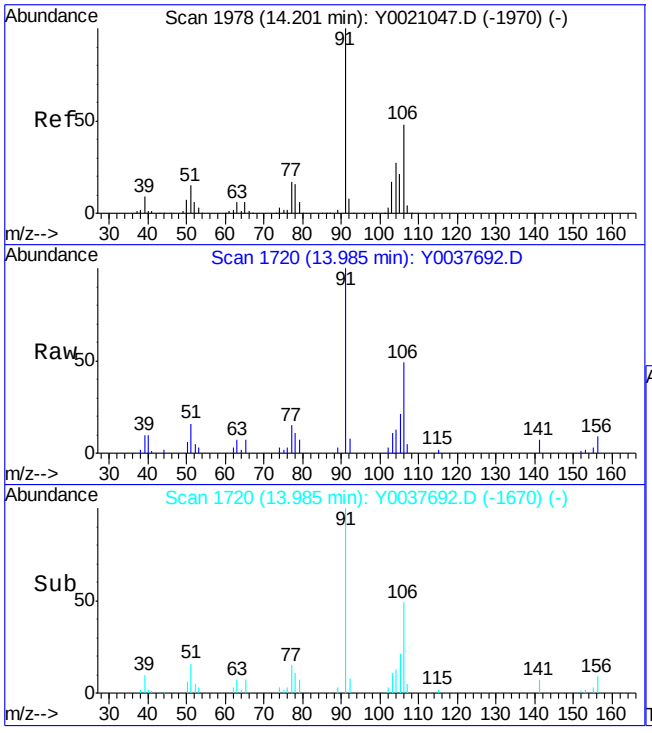


#77
m,p-Xylene
Concen: 15.03 ug/kg
RT: 13.54 min Scan# 1645
Delta R.T. -0.01 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:106 Resp: 63512

Ion	Ratio	Lower	Upper
106	100		
91	191.8	171.3	231.3
105	44.6	14.4	74.4

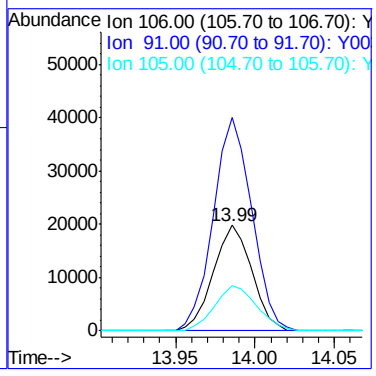


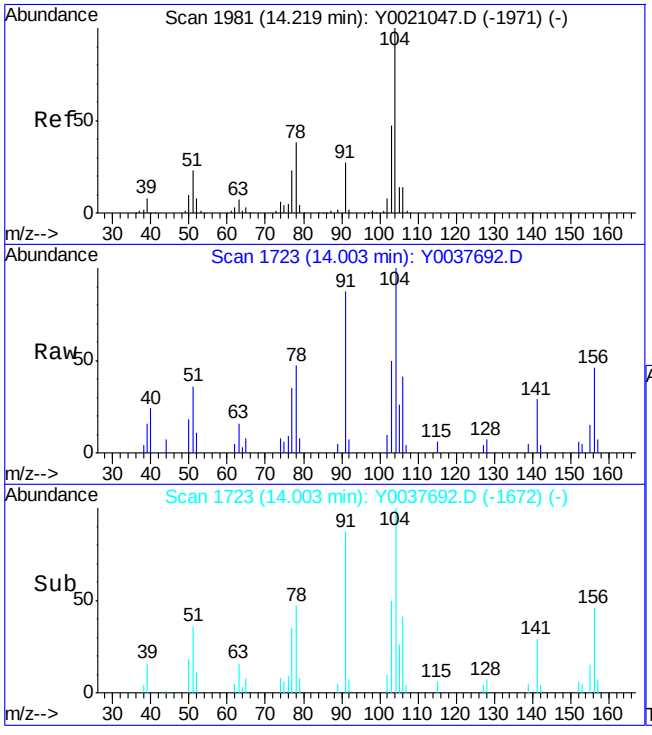


#78
o-Xylene
Concen: 8.29 ug/kg
RT: 13.99 min Scan# 1720
Delta R.T. -0.01 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:106 Resp: 33183

Ion	Ratio	Lower	Upper
106	100		
91	202.6	180.9	240.9
105	42.5	18.3	78.3

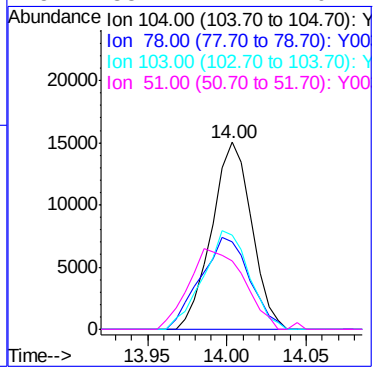


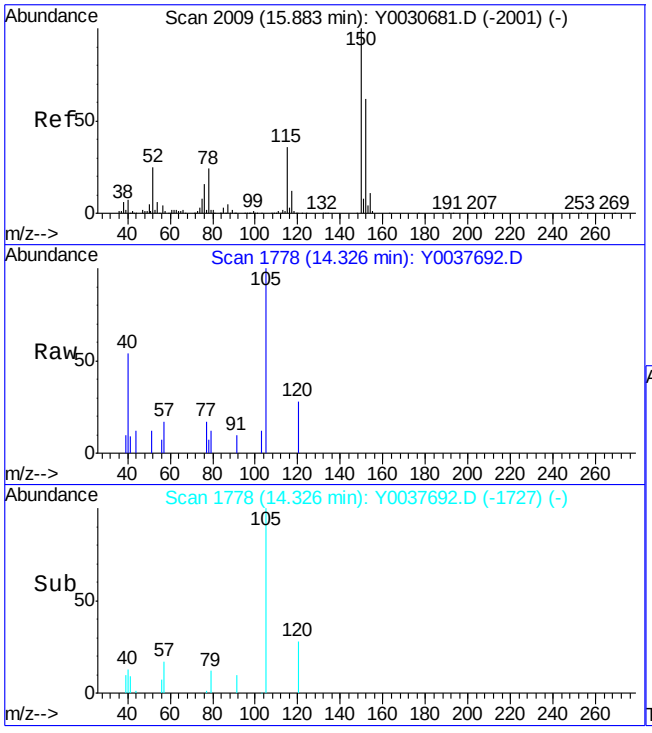


#79
Styrene
Concen: 3.63 ug/kg
RT: 14.00 min Scan# 1723
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:104 Resp: 26326

Ion	Ratio	Lower	Upper
104	100		
78	46.7	16.6	76.6
103	50.4	19.7	79.7
51	33.2	1.4	61.4

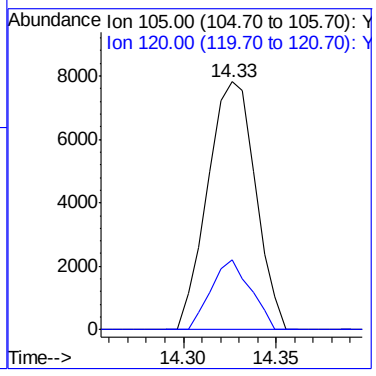


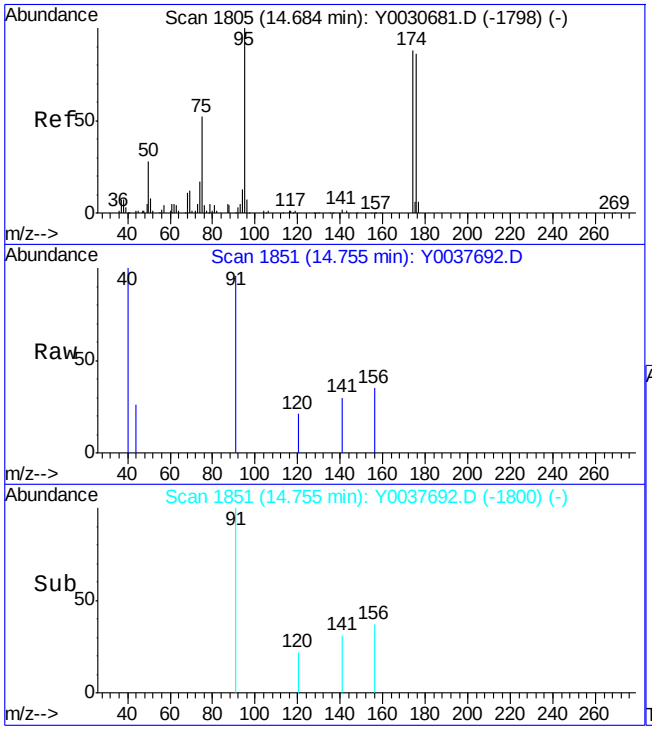


#82
Isopropylbenzene
Concen: 2.08 ug/kg
RT: 14.33 min Scan# 1778
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:105 Resp: 13997

Ion	Ratio	Lower	Upper
105	100		
120	28.3	0.0	56.7

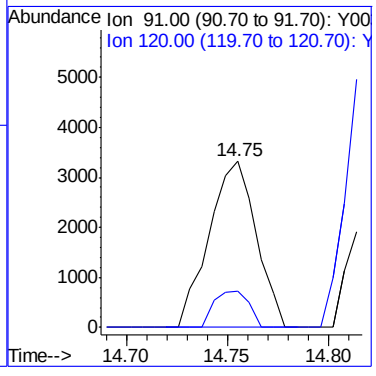


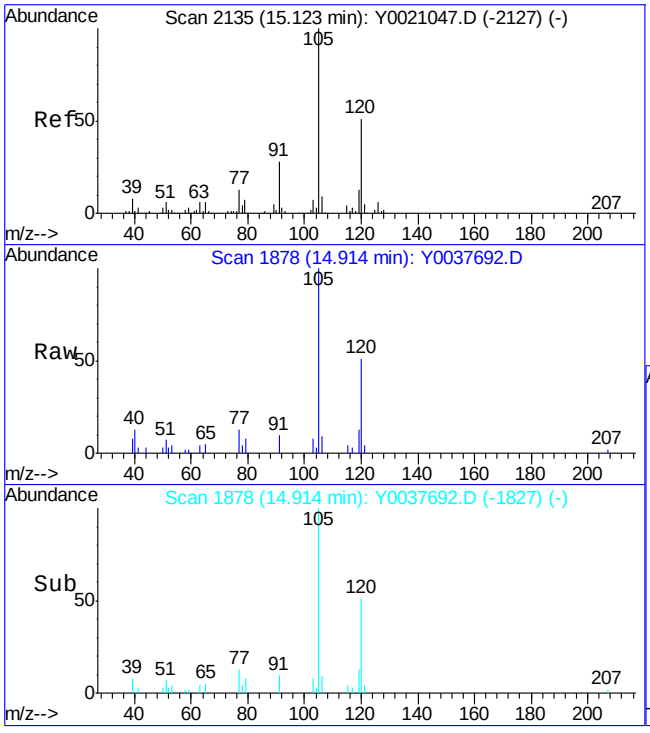


#89
n-Propylbenzene
Concen: 0.57 ug/kg
RT: 14.75 min Scan# 1851
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 91 Resp: 5404

Ion	Ratio	Lower	Upper
91	100		
120	22.0	0.0	53.0

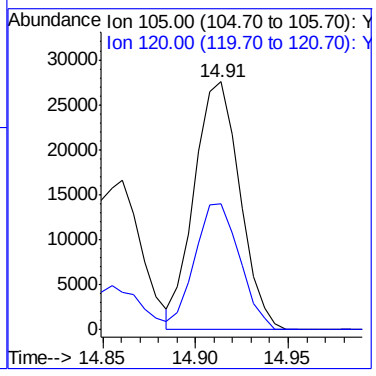


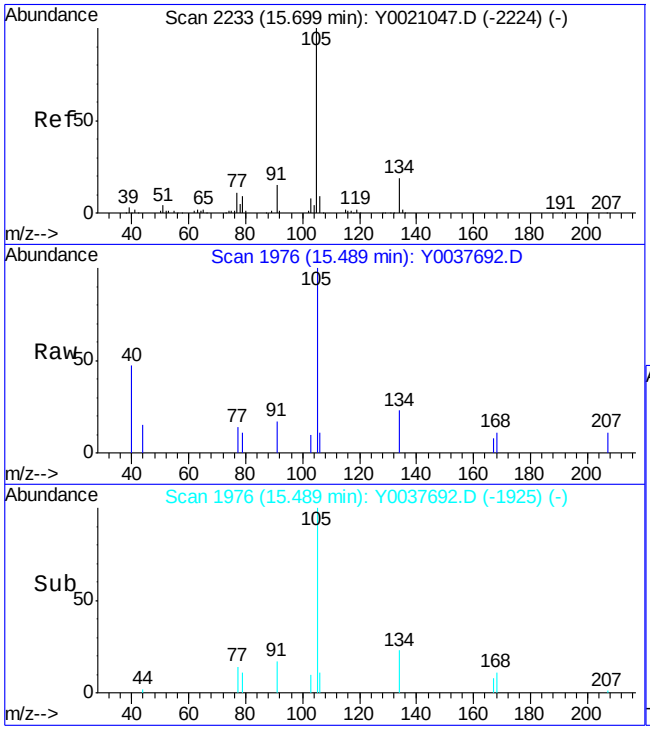


#92
1,3,5-Trimethylbenzene
Concen: 7.60 ug/kg
RT: 14.91 min Scan# 1878
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:105 Resp: 47016

Ion	Ratio	Lower	Upper
105	100		
120	50.7	19.4	79.4

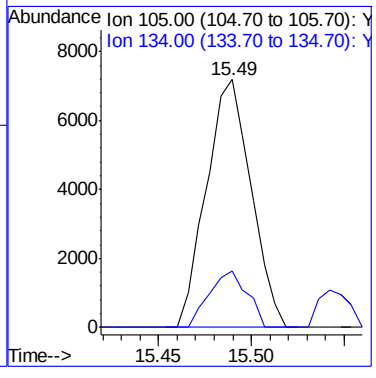


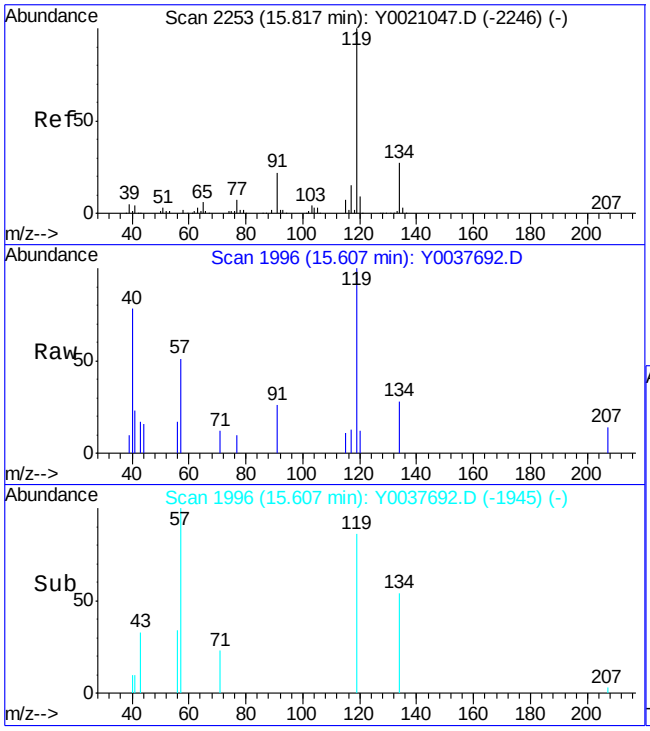


#94
sec-Butylbenzene
Concen: 1.70 ug/kg
RT: 15.49 min Scan# 1976
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:105 Resp: 12032

Ion	Ratio	Lower	Upper
105	100		
134	22.6	0.0	50.3

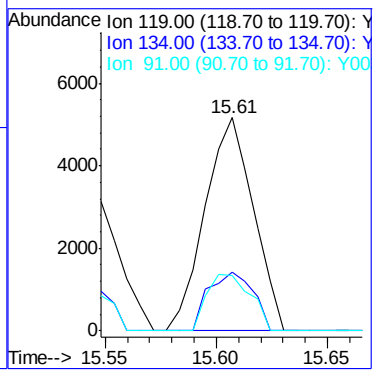


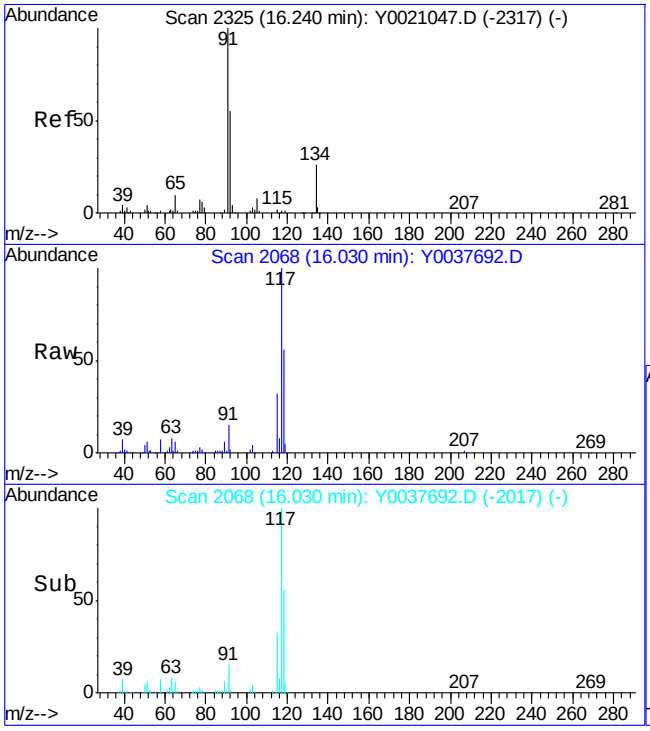


#96
4-Isopropyltoluene
Concen: 1.36 ug/kg
RT: 15.61 min Scan# 1996
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:119 Resp: 7854

Ion	Ratio	Lower	Upper
119	100		
134	27.7	0.0	56.6
91	26.2	0.0	54.6

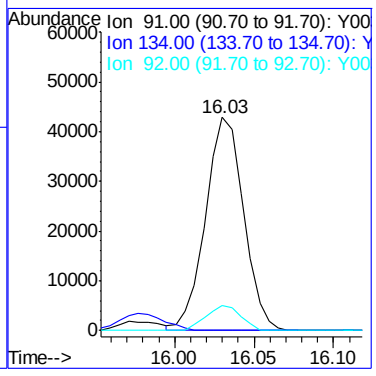


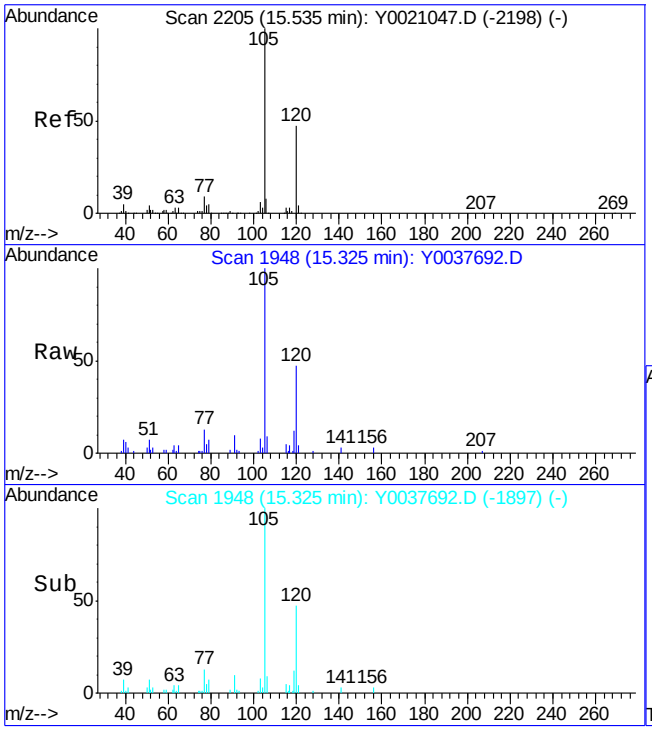


#99
n-Butylbenzene
Concen: 12.77 ug/kg
RT: 16.03 min Scan# 2068
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion: 91 Resp: 71531

Ion	Ratio	Lower	Upper
91	100		
134	0.0	0.0	55.8
92	11.7	23.6	83.6#

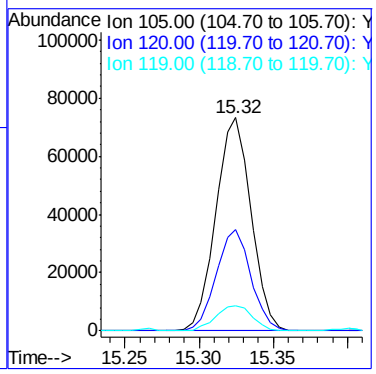


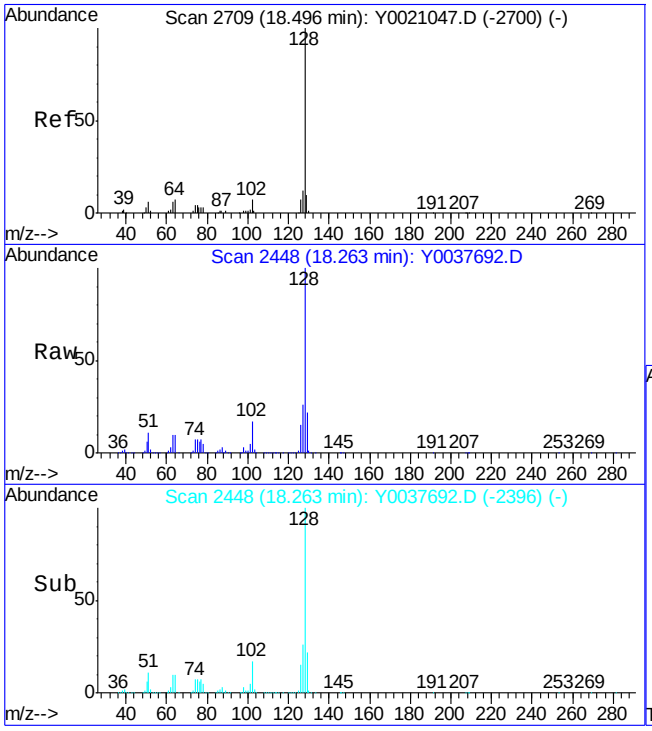


#101
1,2,4-Trimethylbenzene
Concen: 19.14 ug/kg
RT: 15.32 min Scan# 1948
Delta R.T. 0.00 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:105 Resp: 121107

Ion	Ratio	Lower	Upper
105	100		
120	47.4	15.3	75.3
119	11.6	0.0	30.0

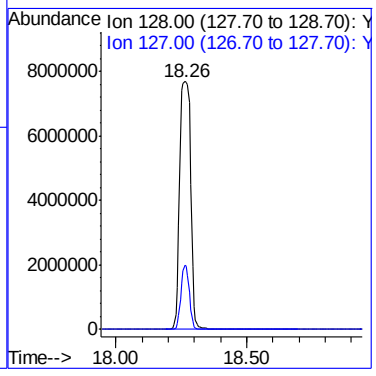




#106
Naphthalene
Concen: 6926.16 ug/kg
RT: 18.26 min Scan# 2448
Delta R.T. 0.01 min
Lab File: Y0037692.D
Acq: 8 Feb 2010 6:02 pm

Tgt Ion:128 Resp:22784375

Ion	Ratio	Lower	Upper
128	100		
127	26.0	0.0	42.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037689.D Vial: 14
Acq On : 8 Feb 2010 4:32 pm Operator: jennl
Sample : t46705-7,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:15 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	575117	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	420149	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	154844	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	154844	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	140668	53.29	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 106.58%			
46) 1,2-Dichloroethane-d4	9.94	65	138621	43.65	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 87.30%			
63) Toluene-d8	11.84	98	526332	54.06	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 108.12%			
84) 4-Bromofluorobenzene	14.58	95	152405	51.00	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 102.00%			

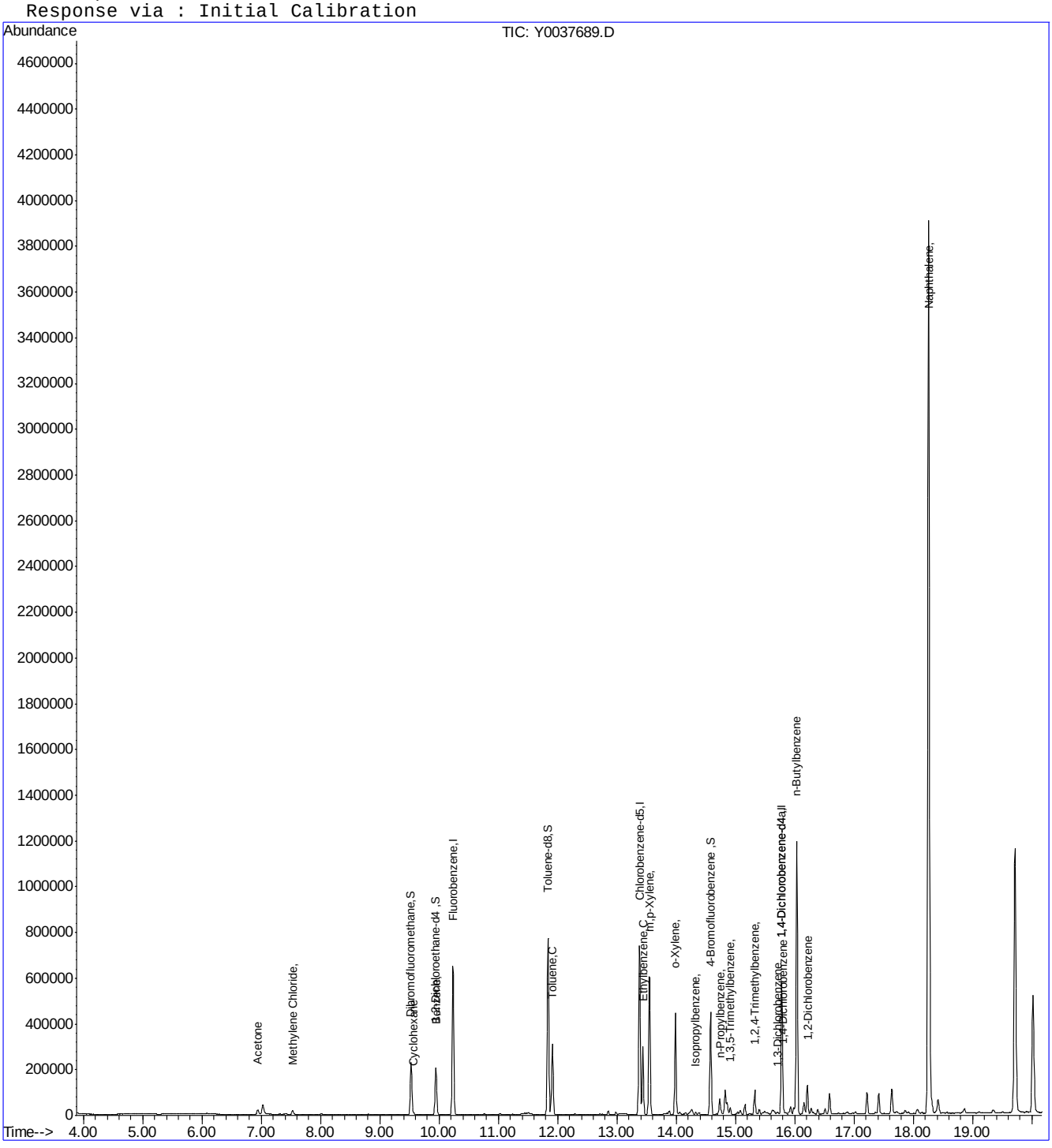
Target Compounds						Qvalue
13) Acetone	6.94	43	33854	54.54	ug/kg	100
19) Methylene Chloride	7.53	84	8103	1.68	ug/kg	95
41) Cyclohexane	9.57	56	3131	0.98	ug/kg	81
47) Benzene	9.95	78	14004	1.35	ug/kg#	1
64) Toluene	11.91	92	135254	20.12	ug/kg	100
76) Ethylbenzene	13.44	91	226574	18.31	ug/kg	96
77) m,p-Xylene	13.54	106	196750	41.29	ug/kg	94
78) o-Xylene	13.99	106	132124	29.27	ug/kg	94
82) Isopropylbenzene	14.32	105	6556	0.85	ug/kg	90
89) n-Propylbenzene	14.75	91	18199	1.68	ug/kg	98
92) 1,3,5-Trimethylbenzene	14.91	105	17678	2.48	ug/kg	97
95) 1,3-Dichlorobenzene	15.71	146	4222	1.00	ug/kg	91
97) 1,4-Dichlorobenzene	15.81	146	12455	2.89	ug/kg	97
99) n-Butylbenzene	16.03	91	103510	16.01	ug/kg#	47
100) 1,2-Dichlorobenzene	16.21	146	55435	14.65	ug/kg	95
101) 1,2,4-Trimethylbenzene	15.32	105	63561	8.70	ug/kg	97
106) Naphthalene	18.26	128	3710690	977.03	ug/kg	100

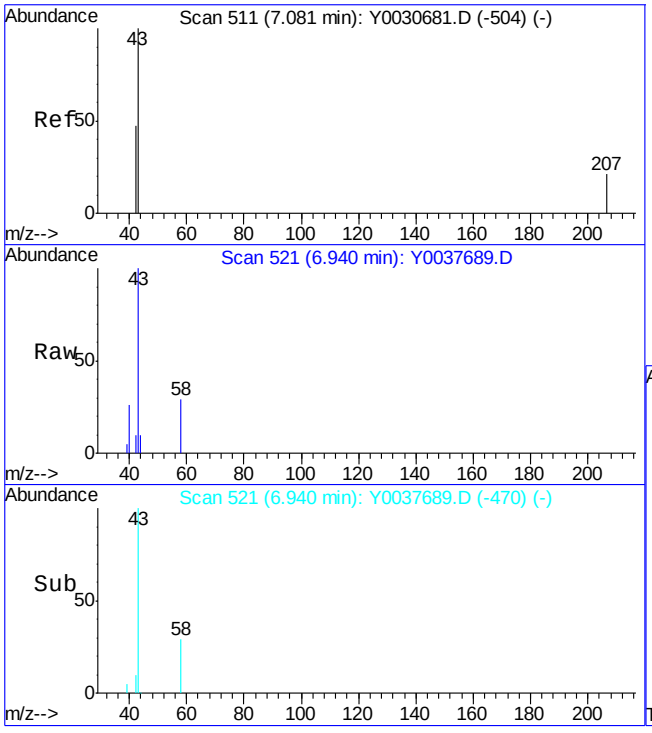
(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037689.D VY2406AP9.M Tue Feb 09 11:38:03 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037689.D Vial: 14
Acq On : 8 Feb 2010 4:32 pm Operator: jennl
Sample : t46705-7,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:58 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

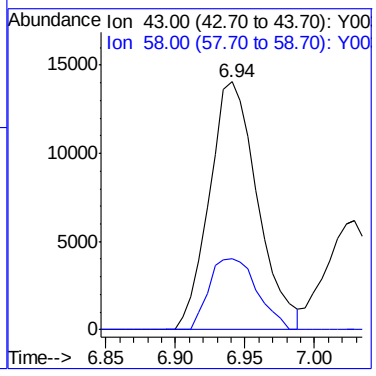


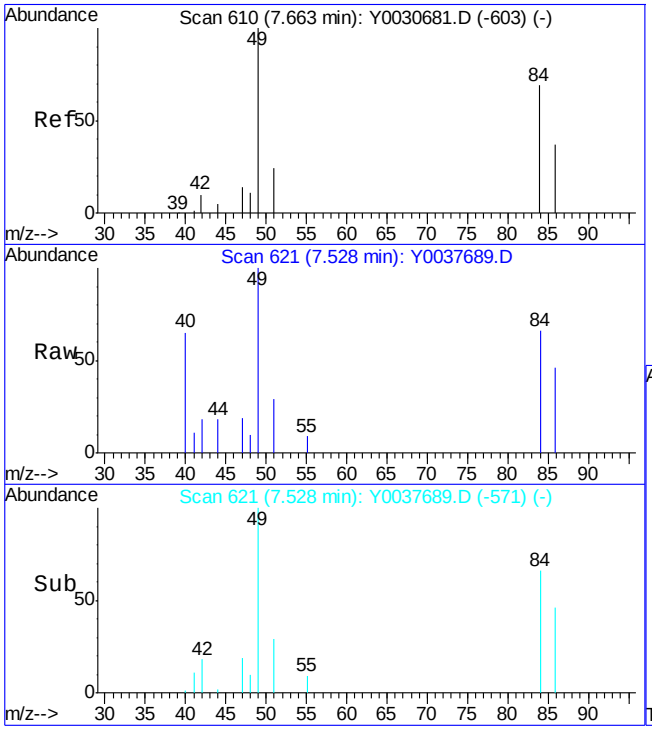


#13
Acetone
Concen: 54.54 ug/kg
RT: 6.94 min Scan# 521
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 43 Resp: 33854

Ion	Ratio	Lower	Upper
43	100		
58	28.6	0.0	58.7

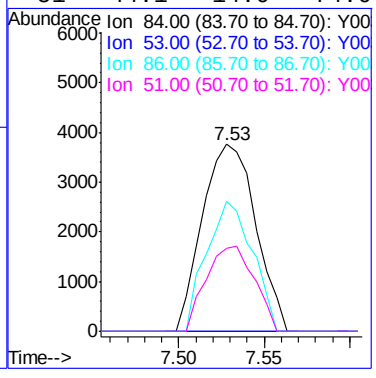


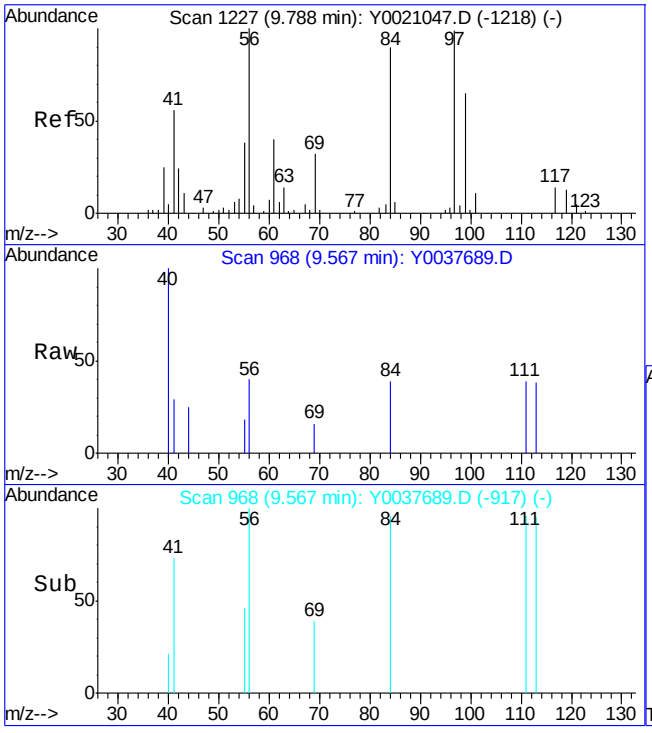


#19
Methylene Chloride
Concen: 1.68 ug/kg
RT: 7.53 min Scan# 621
Delta R.T. -0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 84 Resp: 8103

Ion	Ratio	Lower	Upper
84	100		
53	0.0	0.0	30.0
86	69.6	33.4	93.4
51	44.1	14.0	74.0

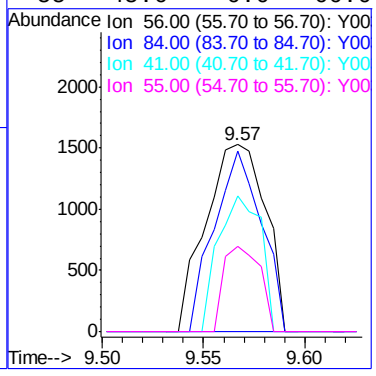


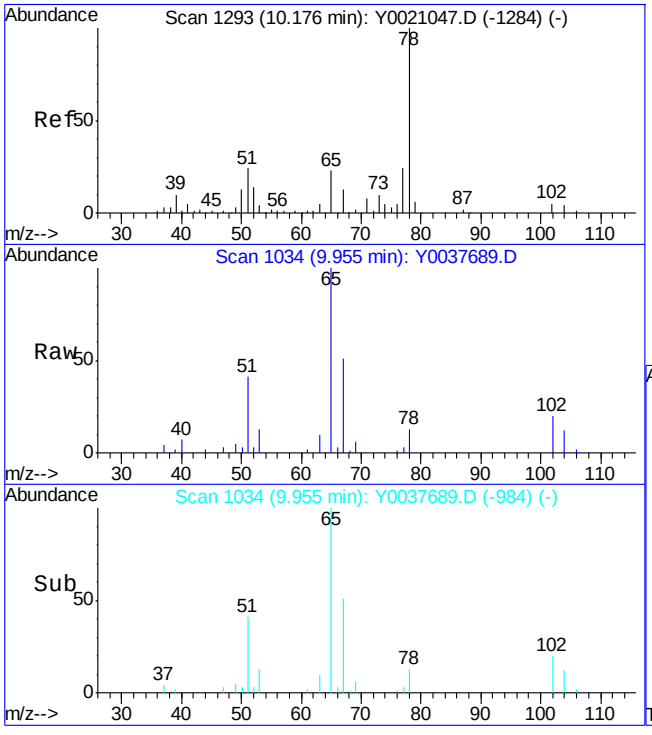


#41
Cyclohexane
Concen: 0.98 ug/kg
RT: 9.57 min Scan# 968
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 56 Resp: 3131

Ion	Ratio	Lower	Upper
56	100		
84	96.3	51.6	111.6
41	72.5	25.7	85.7
55	45.6	6.0	66.0

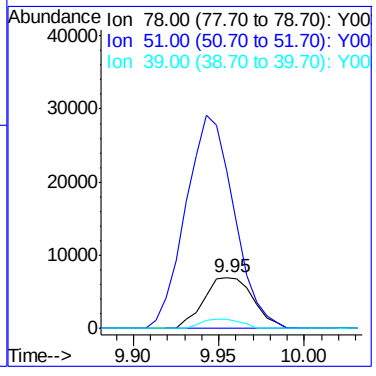


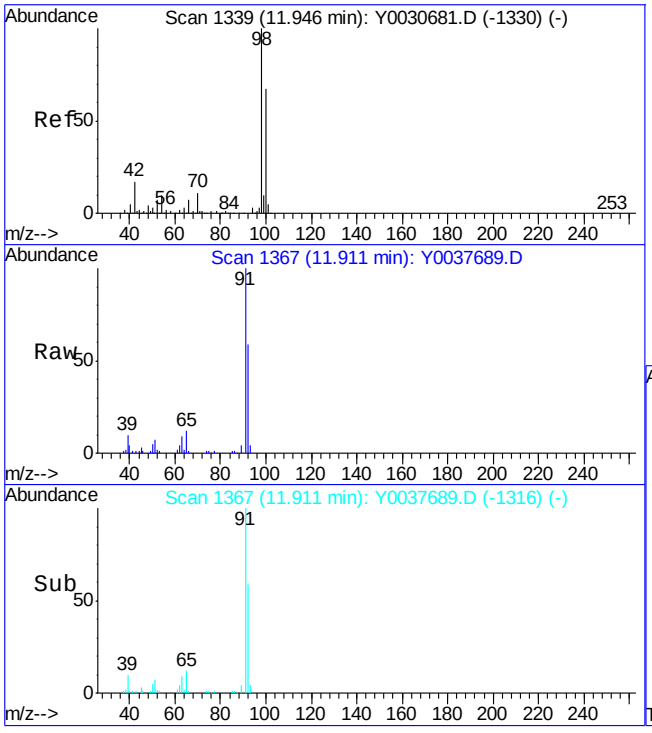


#47
Benzene
Concen: 1.35 ug/kg
RT: 9.95 min Scan# 1034
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 78 Resp: 14004

Ion	Ratio	Lower	Upper
78	100		
51	309.4	0.0	56.2#
39	17.3	0.0	41.9

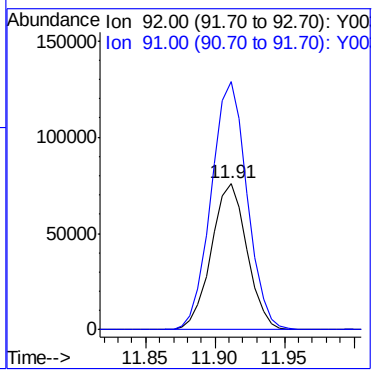


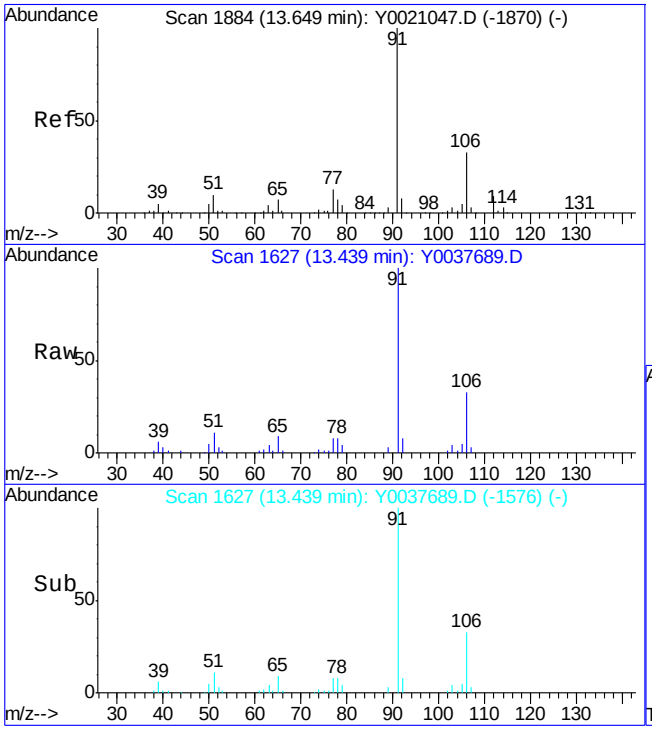


#64
Toluene
Concen: 20.12 ug/kg
RT: 11.91 min Scan# 1367
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 92 Resp: 135254

Ion	Ratio	Lower	Upper
92	100		
91	169.3	139.9	199.9

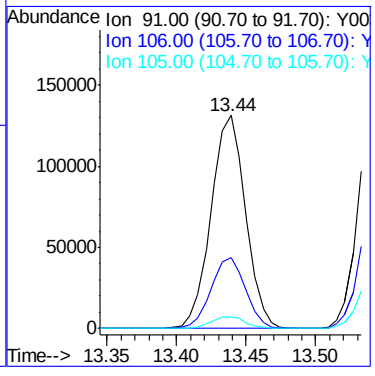


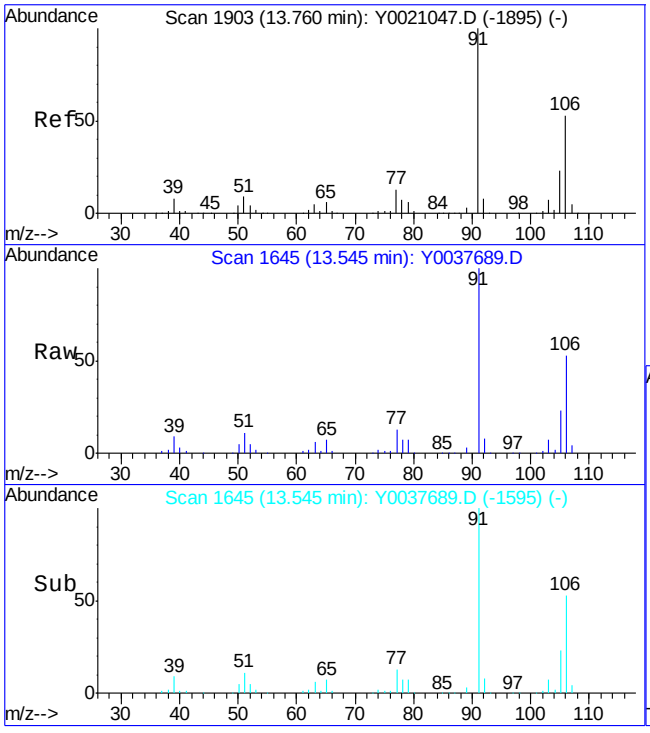


#76
Ethylbenzene
Concen: 18.31 ug/kg
RT: 13.44 min Scan# 1627
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 91 Resp: 226574

Ion	Ratio	Lower	Upper
91	100		
106	33.2	0.7	60.7
105	5.2	0.0	34.9

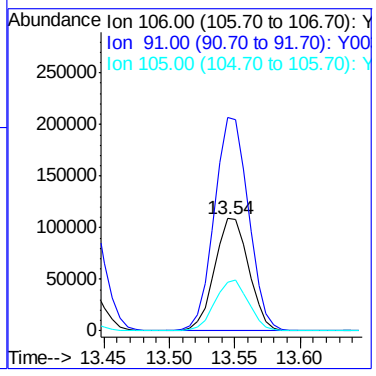


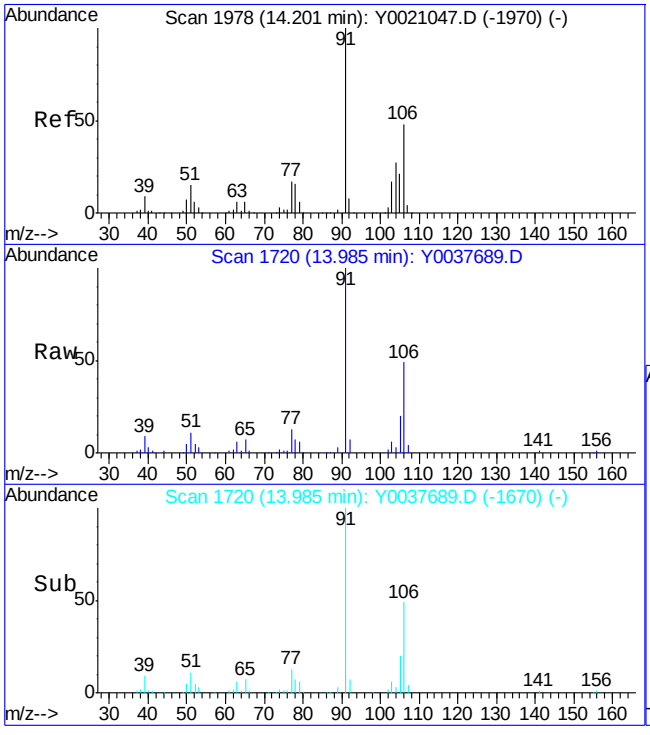


#77
m,p-Xylene
Concen: 41.29 ug/kg
RT: 13.54 min Scan# 1645
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:106 Resp: 196750

Ion	Ratio	Lower	Upper
106	100		
91	189.8	171.3	231.3
105	43.5	14.4	74.4

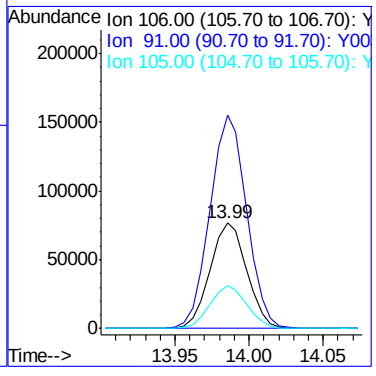


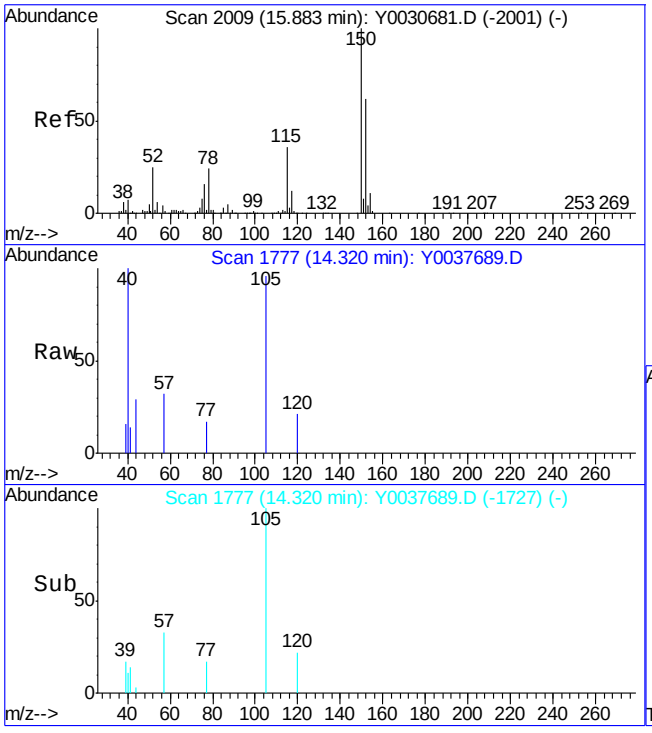


#78
o-Xylene
Concen: 29.27 ug/kg
RT: 13.99 min Scan# 1720
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:106 Resp: 132124

Ion	Ratio	Lower	Upper
106	100		
91	202.1	180.9	240.9
105	41.2	18.3	78.3

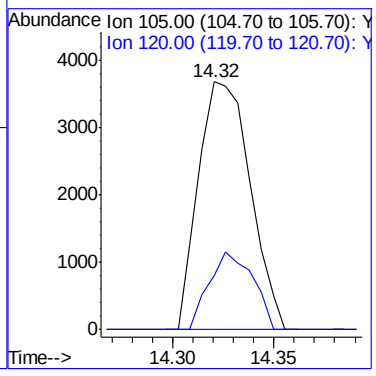


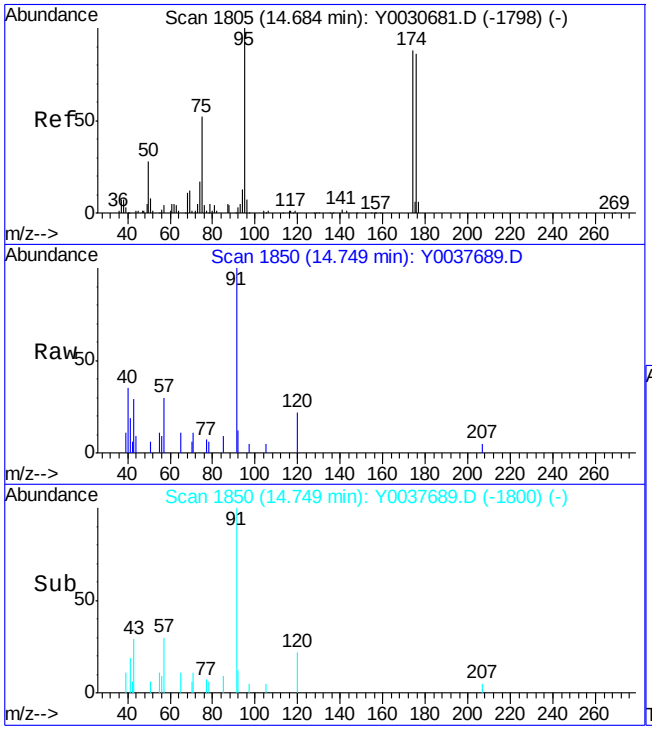


#82
Isopropylbenzene
Concen: 0.85 ug/kg
RT: 14.32 min Scan# 1777
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:105 Resp: 6556

Ion	Ratio	Lower	Upper
105	100		
120	21.7	0.0	56.7

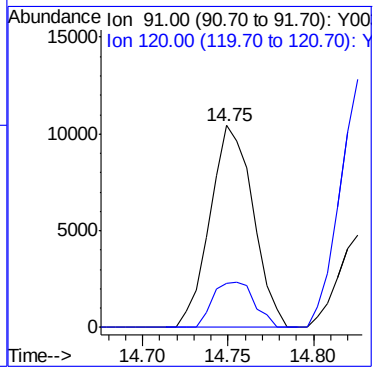


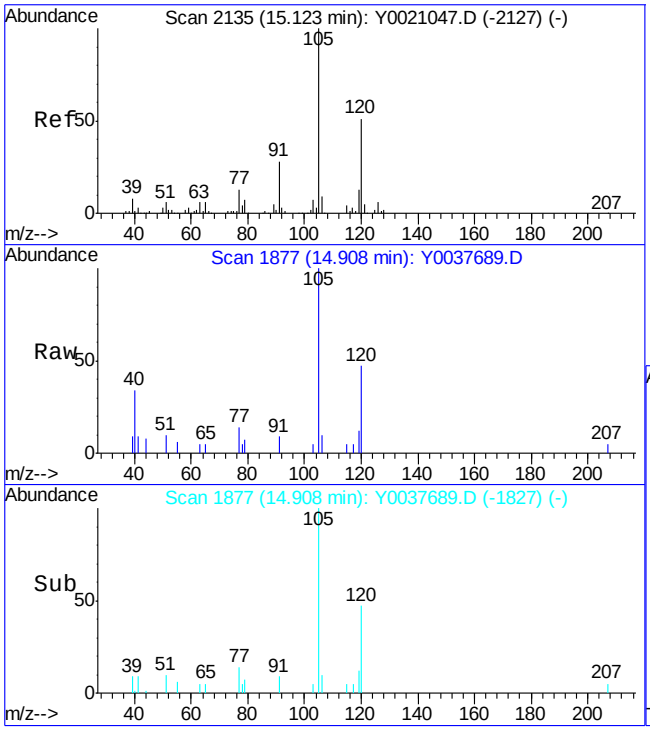


#89
n-Propylbenzene
Concen: 1.68 ug/kg
RT: 14.75 min Scan# 1850
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 91 Resp: 18199

Ion	Ratio	Lower	Upper
91	100		
120	21.8	0.0	53.0

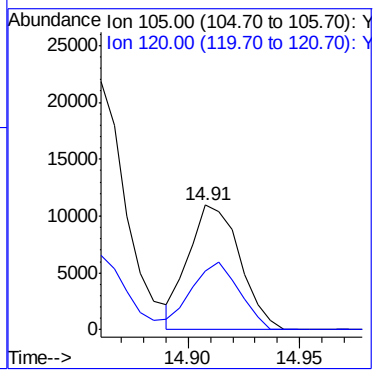


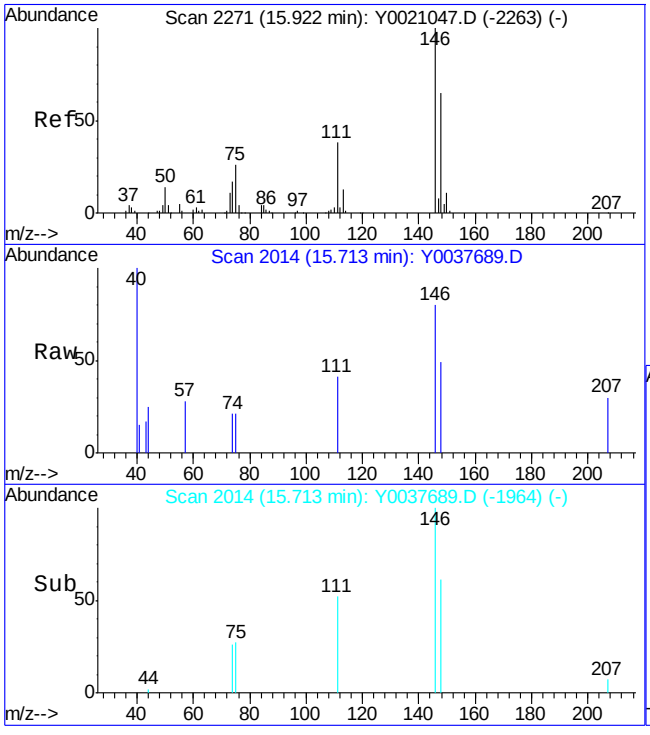


#92
1,3,5-Trimethylbenzene
Concen: 2.48 ug/kg
RT: 14.91 min Scan# 1877
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:105 Resp: 17678

Ion	Ratio	Lower	Upper
105	100		
120	47.4	19.4	79.4

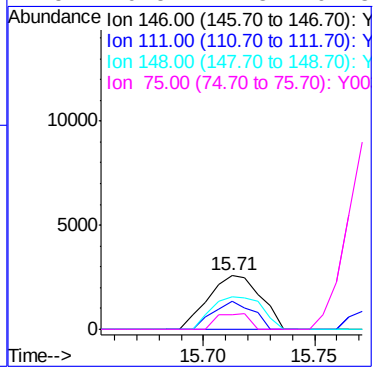


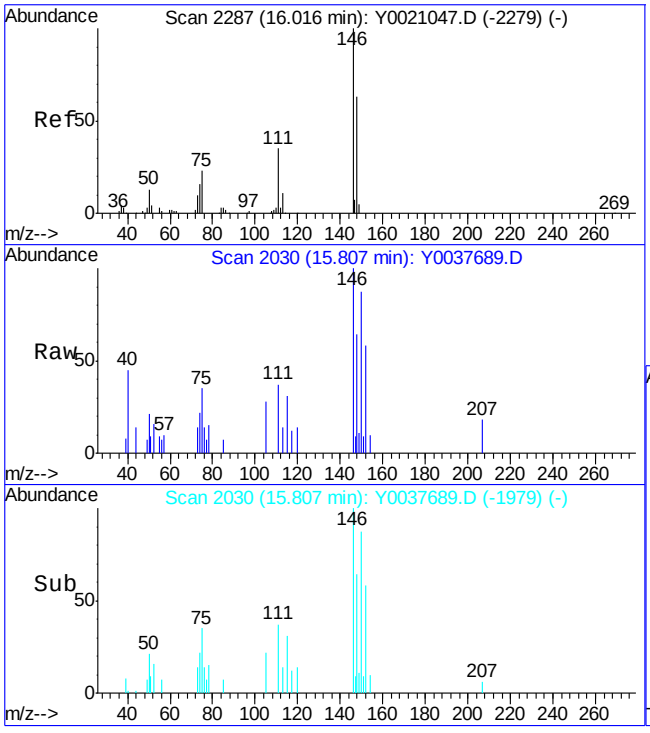


#95
1,3-Dichlorobenzene
Concen: 1.00 ug/kg
RT: 15.71 min Scan# 2014
Delta R.T. -0.01 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:146 Resp: 4222

Ion	Ratio	Lower	Upper
146	100		
111	51.9	10.8	70.8
148	61.0	33.0	93.0
75	26.5	1.8	61.8

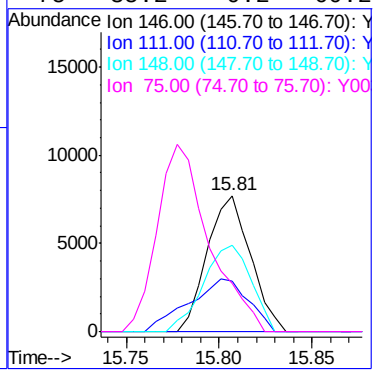


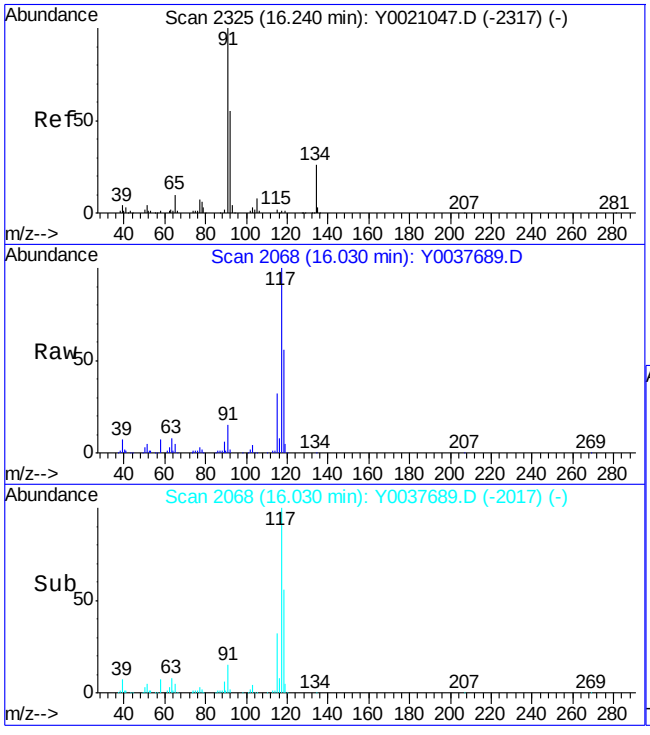


#97
1,4-Dichlorobenzene
Concen: 2.89 ug/kg
RT: 15.81 min Scan# 2030
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:146 Resp: 12455

Ion	Ratio	Lower	Upper
146	100		
111	37.1	7.6	67.6
148	64.0	33.5	93.5
75	35.2	0.2	60.2

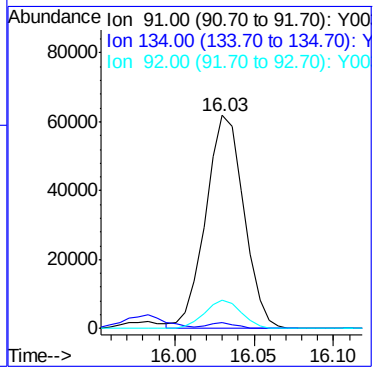


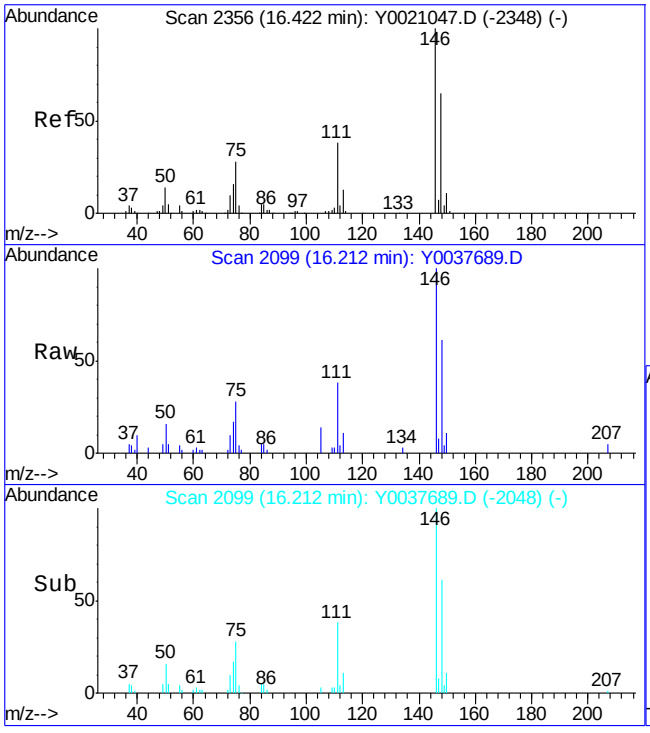


#99
n-Butylbenzene
Concen: 16.01 ug/kg
RT: 16.03 min Scan# 2068
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion: 91 Resp: 103510

Ion	Ratio	Lower	Upper
91	100		
134	2.6	0.0	55.8
92	13.5	23.6	83.6#

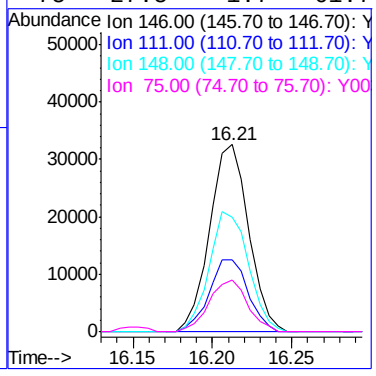


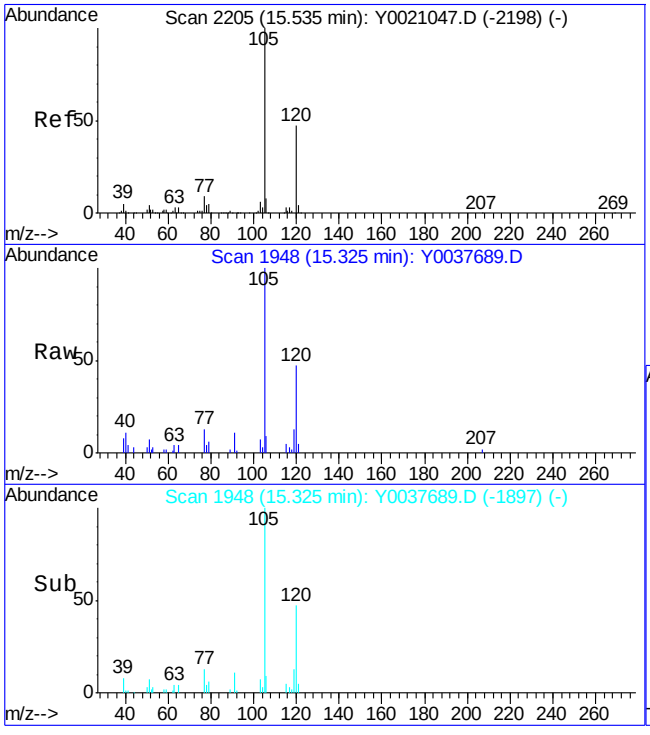


#100
1,2-Dichlorobenzene
Concen: 14.65 ug/kg
RT: 16.21 min Scan# 2099
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:146 Resp: 55435

Ion	Ratio	Lower	Upper
146	100		
111	38.4	13.2	73.2
148	61.0	33.2	93.2
75	27.5	1.7	61.7

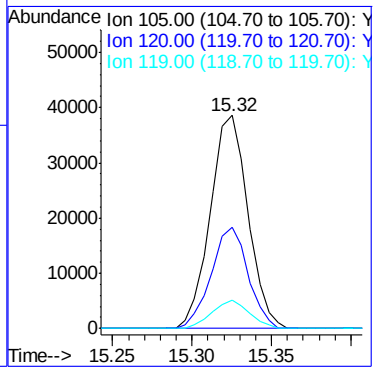


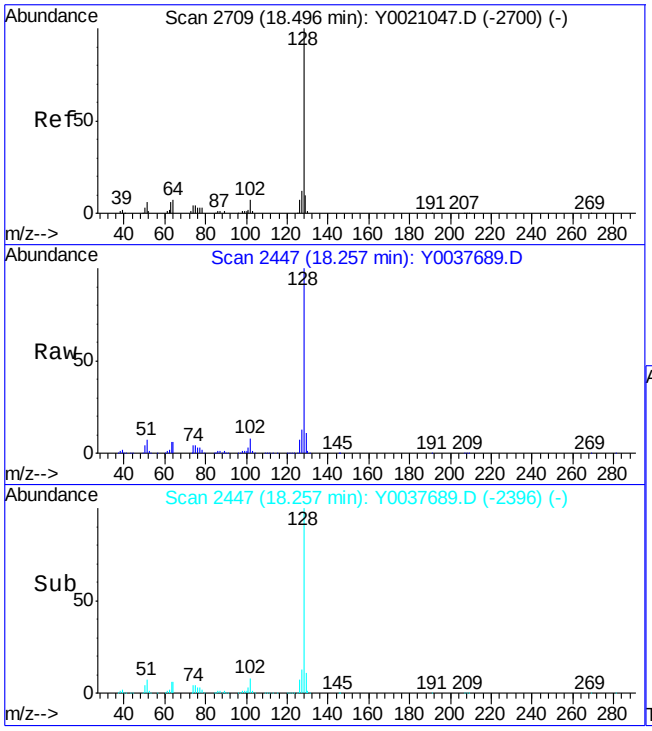


#101
1,2,4-Trimethylbenzene
Concen: 8.70 ug/kg
RT: 15.32 min Scan# 1948
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:105 Resp: 63561

Ion	Ratio	Lower	Upper
105	100		
120	47.4	15.3	75.3
119	13.2	0.0	30.0

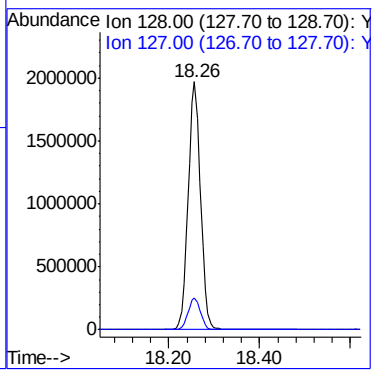




#106
Naphthalene
Concen: 977.03 ug/kg
RT: 18.26 min Scan# 2447
Delta R.T. 0.00 min
Lab File: Y0037689.D
Acq: 8 Feb 2010 4:32 pm

Tgt Ion:128 Resp: 3710690

Ion	Ratio	Lower	Upper
128	100		
127	12.8	0.0	42.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058910.D
Acq On : 7 Feb 2010 10:17 pm
Operator : jennl
Sample : t46705-8
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 08 09:55:41 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

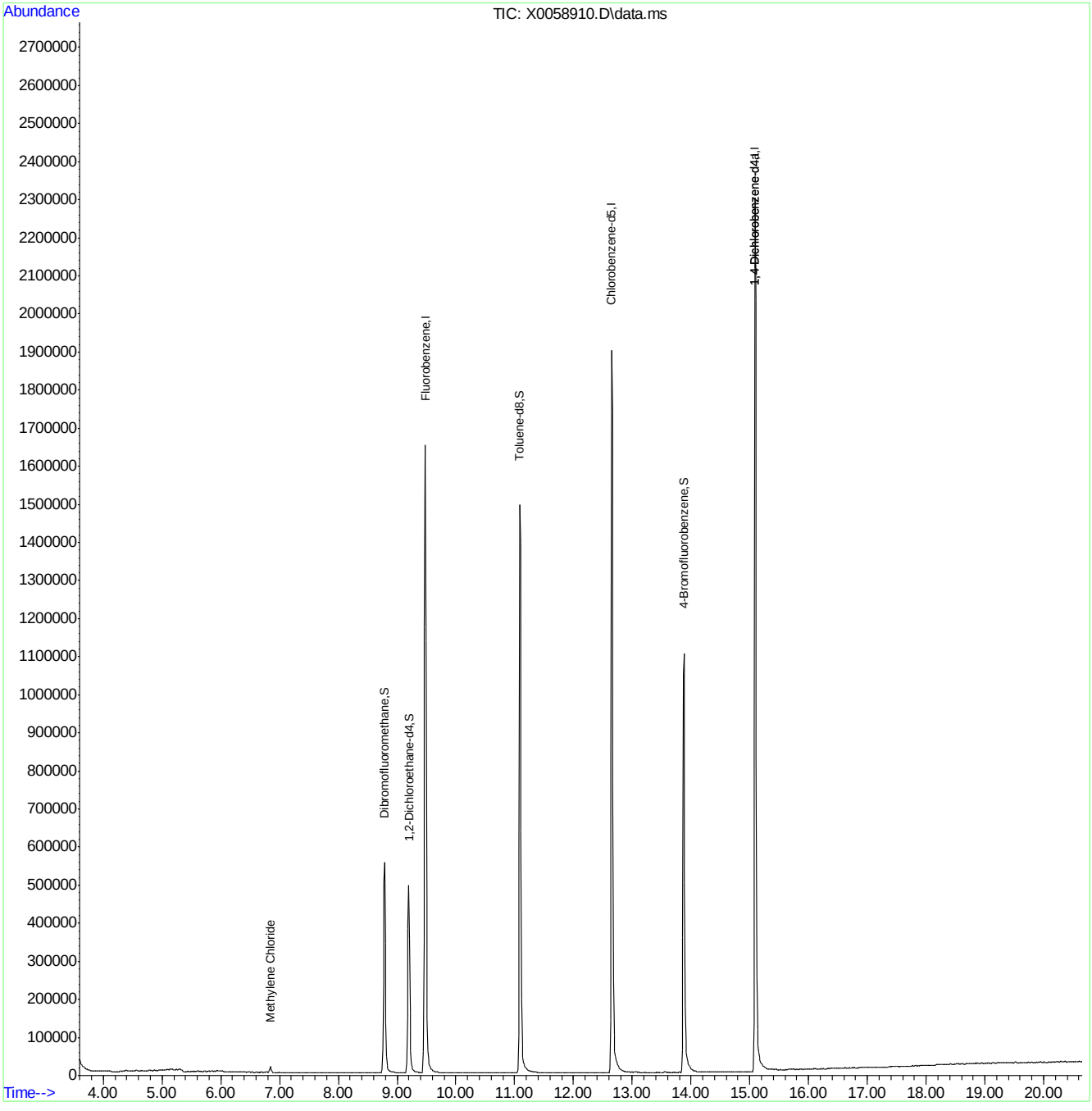
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1586476	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1308806	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	751976	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	751976	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.788	113	380846	54.66	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.32%			
44) 1,2-Dichloroethane-d4	9.198	65	426933	60.84	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 121.68%#			
61) Toluene-d8	11.086	98	1136693	52.00	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 104.00%			
82) 4-Bromofluorobenzene	13.880	95	463591	47.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 95.62%			
Target Compounds						Qvalue
16) Methylene Chloride	6.845	49	10387	1.45	ug/L	85

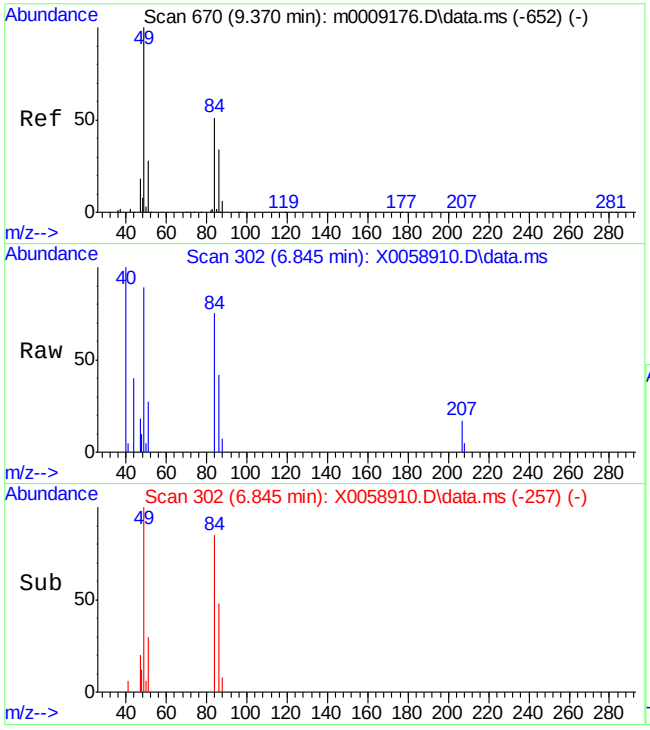
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058910.D
Acq On : 7 Feb 2010 10:17 pm
Operator : jennl
Sample : t46705-8
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 08 09:55:41 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

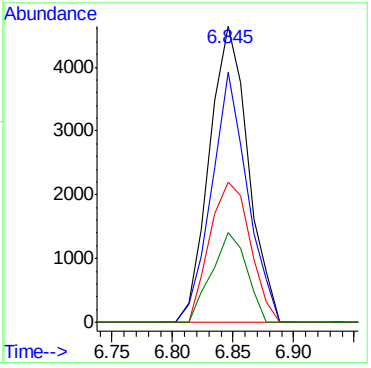




#16
Methylene Chloride
Concen: 1.45 ug/L
RT: 6.845 min Scan# 302
Delta R.T. -0.011 min
Lab File: X0058910.D
Acq: 7 Feb 2010 10:17 pm

Tgt Ion: 49 Resp: 10387

Ion	Ratio	Lower	Upper
49	100		
84	84.5	68.1	128.1
86	47.5	34.0	94.0
51	30.4	2.8	62.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058892.D
Acq On : 7 Feb 2010 1:41 pm
Operator : jennl
Sample : mb
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 08 09:22:30 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.467	96	1701812	50.00	ug/L	-0.02
60) Chlorobenzene-d5	12.650	117	1412123	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	812910	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	812910	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.777	113	410794	54.96	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.92%			
44) 1,2-Dichloroethane-d4	9.187	65	451246	59.95	ug/L	-0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 119.90%			
61) Toluene-d8	11.086	98	1225011	51.94	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 103.88%			
82) 4-Bromofluorobenzene	13.869	95	505764	48.24	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 96.48%			
Target Compounds						Qvalue
16) Methylene Chloride	6.845	49	2037	0.27	ug/L	83

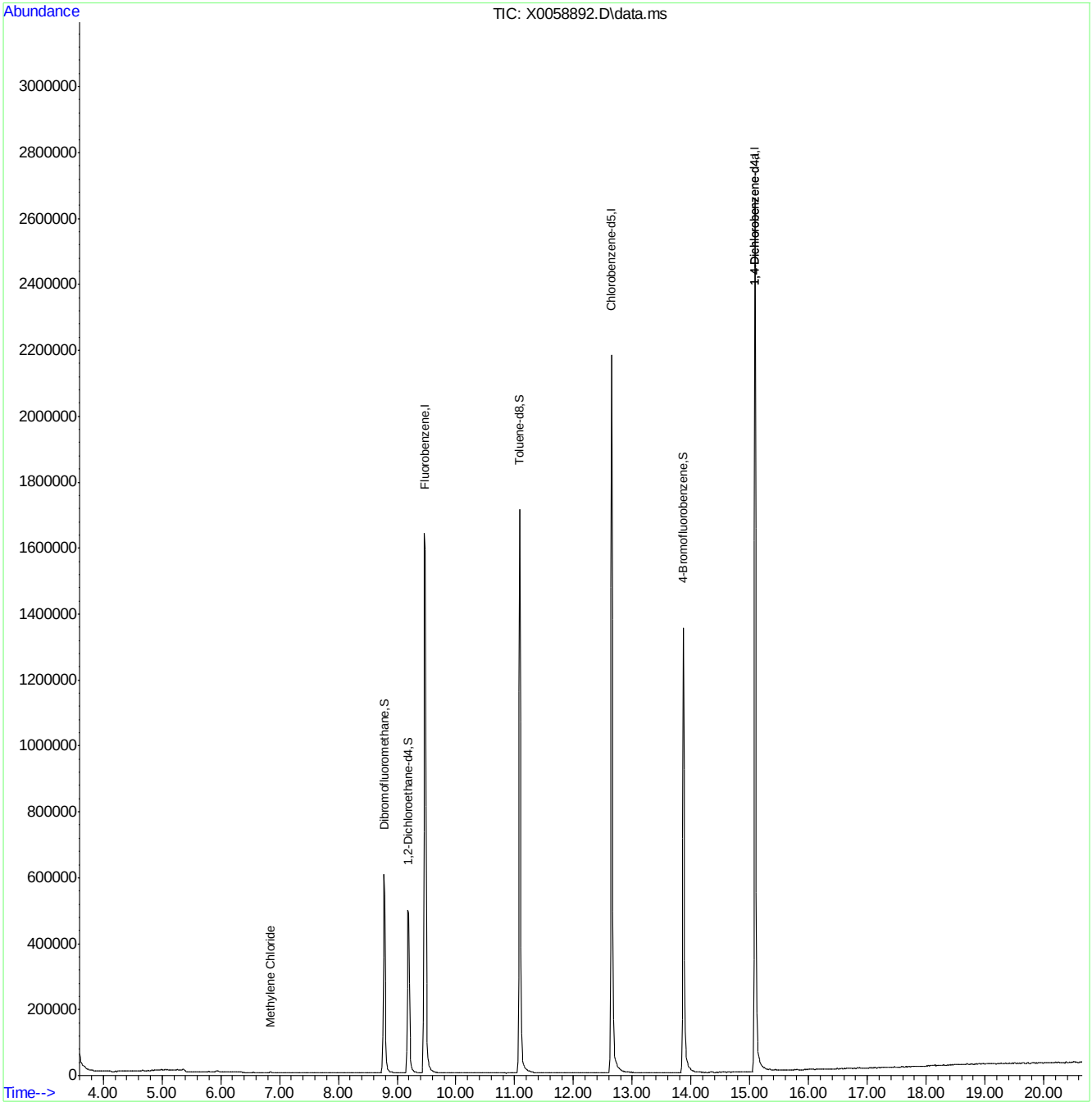
(#) = qualifier out of range (m) = manual integration (+) = signals summed

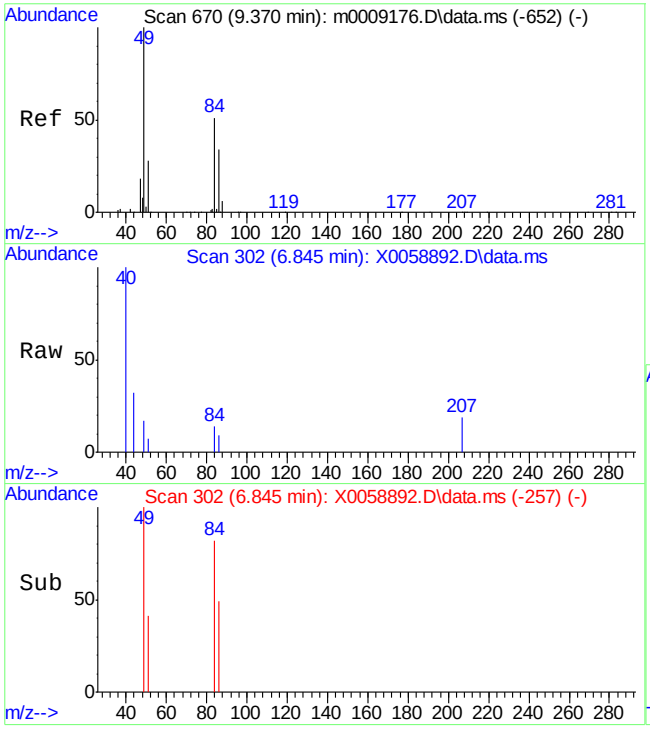
ACCUTEST Laboratories

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058892.D
Acq On : 7 Feb 2010 1:41 pm
Operator : jennl
Sample : mb
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 08 09:22:30 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

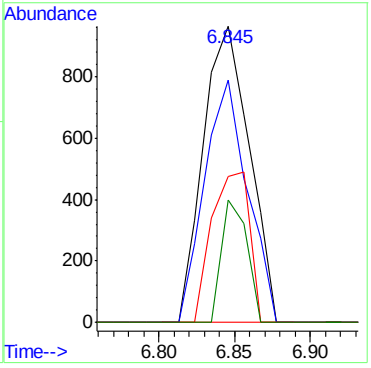




#16
Methylene Chloride
Concen: 0.27 ug/L
RT: 6.845 min Scan# 302
Delta R.T. -0.011 min
Lab File: X0058892.D
Acq: 7 Feb 2010 1:41 pm

Tgt Ion: 49 Resp: 2037

Ion	Ratio	Lower	Upper
49	100		
84	81.7	68.1	128.1
86	49.1	34.0	94.0
51	41.3	2.8	62.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037680.D Vial: 5
Acq On : 8 Feb 2010 11:52 am Operator: jennl
Sample : mb Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:05 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	573605	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	433357	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	197963	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	197963	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	146045	55.48	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 110.96%			
46) 1,2-Dichloroethane-d4	9.94	65	148411	46.85	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 93.70%			
63) Toluene-d8	11.84	98	534140	53.19	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 106.38%			
84) 4-Bromofluorobenzene	14.58	95	176736	46.26	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 92.52%			

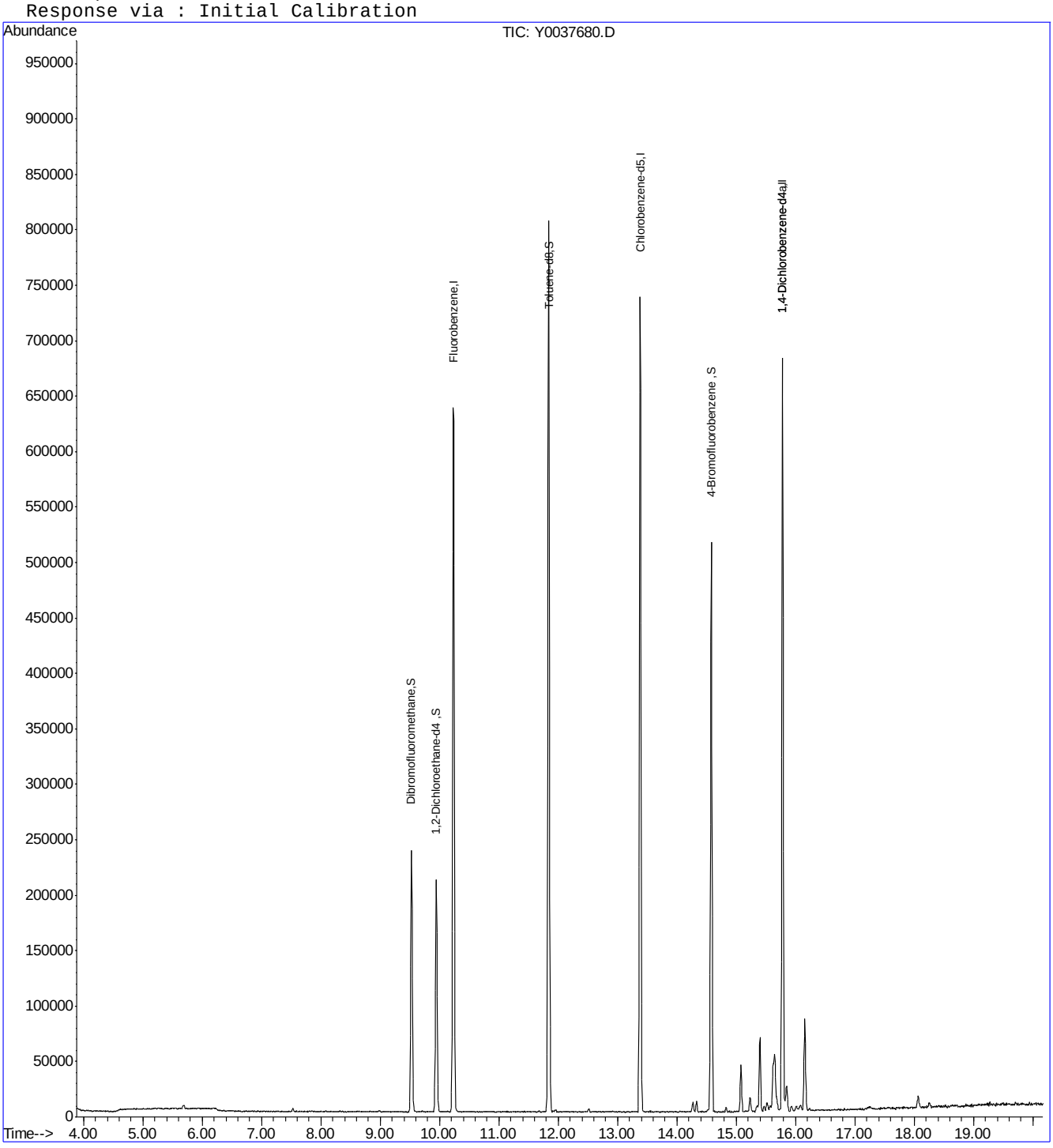
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037680.D VY2406AP9.M Tue Feb 09 11:37:40 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037680.D Vial: 5
Acq On : 8 Feb 2010 11:52 am Operator: jennl
Sample : mb Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:09 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058929.D
Acq On : 8 Feb 2010 5:19 pm
Operator : jennl
Sample : mb
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 09 10:19:48 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

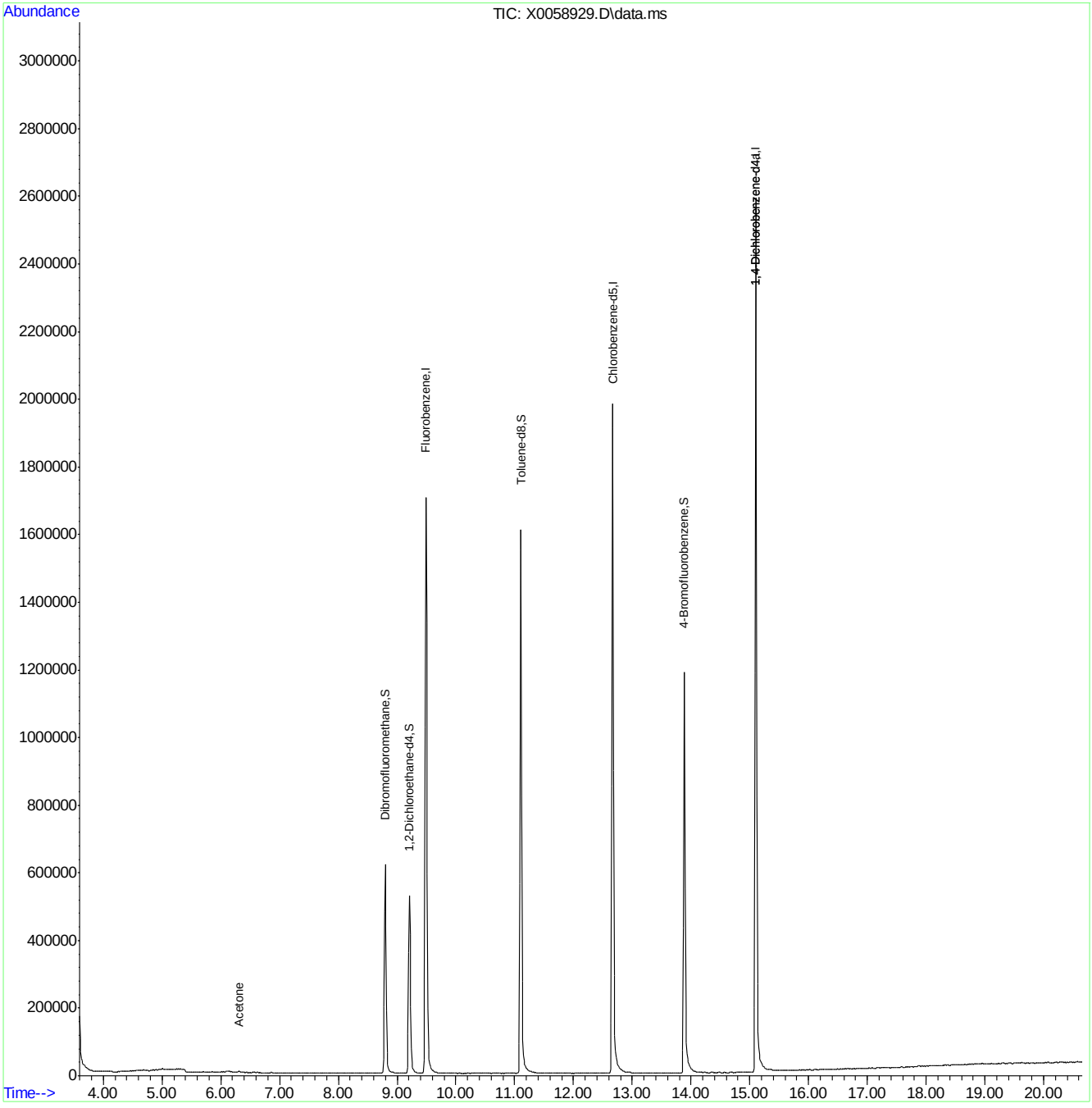
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1691035	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.672	117	1438434	50.00	ug/L	0.01
79) 1,4-Dichlorobenzene-d4	15.099	152	848339	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	848339	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	415635	50.62	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 101.24%			
44) 1,2-Dichloroethane-d4	9.208	65	448389	49.08	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.16%			
61) Toluene-d8	11.107	98	1285725	54.84	ug/L	0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 109.68%			
82) 4-Bromofluorobenzene	13.880	95	515907	49.74	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 99.48%			
Target Compounds						Qvalue
12) Acetone	6.306	43	8103	5.28	ug/L	99

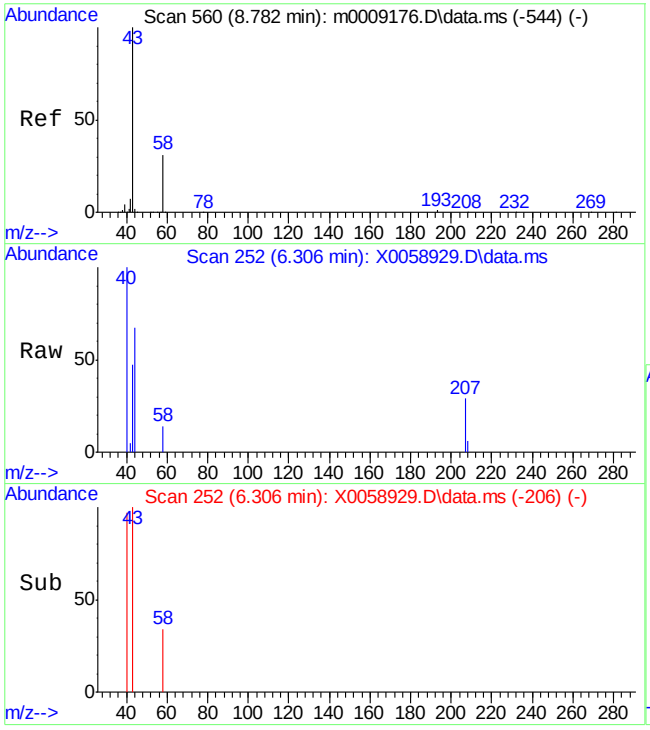
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058929.D
Acq On : 8 Feb 2010 5:19 pm
Operator : jennl
Sample : mb
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 09 10:19:48 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

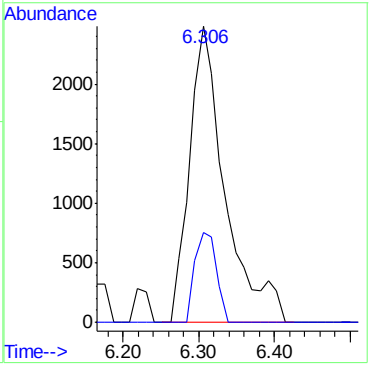




#12
Acetone
Concen: 5.28 ug/L
RT: 6.306 min Scan# 252
Delta R.T. -0.000 min
Lab File: X0058929.D
Acq: 8 Feb 2010 5:19 pm

Tgt Ion: 43 Resp: 8103

Ion	Ratio	Lower	Upper
43	100		
58	30.5	1.1	61.1



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/08/10 11:10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On : 7 Feb 2010 2:09 pm
Operator : jennl
Sample : bs
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 08 08:29:03 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.467	96	1794589	50.00	ug/L	-0.02
60) Chlorobenzene-d5	12.650	117	1575076	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	972160	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	972160	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.777	113	427417	54.23	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 108.46%			
44) 1,2-Dichloroethane-d4	9.187	65	466219	58.74	ug/L	-0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 117.48%			
61) Toluene-d8	11.086	98	1391318	52.89	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 105.78%			
82) 4-Bromofluorobenzene	13.869	95	612280	48.82	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 97.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.846	85	203796	19.71	ug/L	99
3) Chloromethane	4.159	50	110626	23.06	ug/L	100
4) Vinyl Chloride	4.374	62	107022	23.40	ug/L	99
5) Bromomethane	4.957	94	97142	25.60	ug/L	99
6) Chloroethane	5.108	64	61768	23.60	ug/L	99
7) Trichlorofluoromethane	5.453	101	228085	22.75	ug/L	98
8) Ethyl Ether	5.788	59	82035	31.60	ug/L	95
9) Acrolein	6.101	56	114590	536.15	ug/L	95
10) 1,1-Dichloroethene	6.176	61	196874	22.83	ug/L	90
11) Freon 113	6.090	101	167944	22.87	ug/L	99
12) Acetone	6.284	43	212561	149.22	ug/L	90
13) Iodomethane	6.457	142	264062	20.49	ug/L	92
14) Methyl Acetate	6.619	43	501039	135.73	ug/L	94
15) Carbon Disulfide	6.532	76	440896	19.11	ug/L	90
16) Methylene Chloride	6.835	49	210243	26.03	ug/L	88
17) Tert Butyl Alcohol	6.845	59	98578	234.57	ug/L	84
18) Allyl Chloride	6.651	41	154883	23.19	ug/L	93
19) Acetonitrile	6.737	41	143824	237.42	ug/L	96
20) trans-1,2-Dichloroethene	7.104	61	196388	23.04	ug/L	90
21) Acrylonitrile	7.191	53	264274	151.50	ug/L	99
22) Methyl Tert Butyl Ether	7.040	73	362108	23.10	ug/L	92
23) Hexane	7.277	57	145130	19.69	ug/L	87
24) 1,1-Dichloroethane	7.644	63	280260	24.37	ug/L	99
25) Vinyl Acetate	7.590	43	1440482	150.02	ug/L	97
26) Di-isopropyl ether	7.514	45	391025	22.92	ug/L	88
27) Chloroprene	7.698	53	152422	8.72	ug/L	93
28) Ethyl tert-butyl ether	7.924	59	384406	22.41	ug/L	98
29) 2,2-Dichloropropane	8.270	77	225508	25.09	ug/L	96
30) cis-1,2-Dichloroethene	8.291	96	174627	24.33	ug/L	95
31) Ethyl Acetate	8.216	43	638998m	147.13	ug/L	
32) 2-Butanone	8.259	43	288594m	117.61	ug/L	
33) Propionitrile	8.431	54	180876	235.88	ug/L	97
34) Methacrylonitrile	8.809	41	123322	25.05	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On : 7 Feb 2010 2:09 pm
Operator : jennl
Sample : bs
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 08 08:29:03 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Bromochloromethane	8.572	128	107761	24.98 ug/L #	80
36) Chloroform	8.593	83	322857	25.16 ug/kg	98
37) Tetrahydrofuran	8.809	42	47052	22.87 ug/L	94
38) 1,1,1-Trichloroethane	8.798	97	263878	24.59 ug/L	97
40) Cyclohexane	8.809	56	205298	20.52 ug/L	93
41) n-Butyl Alcohol	9.640	56	40359	436.06 ug/L	92
42) 1,1-Dichloropropene	8.960	75	196266	22.03 ug/L	89
43) Carbon Tetrachloride	8.949	117	251808	26.10 ug/L	99
45) Benzene	9.197	78	607066	23.39 ug/L	68
46) Isobutyl Alcohol	9.176	43	125858	272.17 ug/L	95
47) 1,2-Dichloroethane	9.273	62	257471	29.03 ug/L	99
48) tert-amyl methyl ether	9.176	73	390517	23.21 ug/L	89
49) Trichloroethene	9.845	95	150409	21.81 ug/L	98
50) Methylcyclohexane	9.996	83	208590	19.22 ug/L	96
51) Methyl Methacrylate	10.093	41	87267	24.38 ug/L	88
52) 1,2-Dichloropropane	10.136	63	166113	25.40 ug/L	93
53) Dibromomethane	10.287	93	124702	25.58 ug/kg	99
54) 1,4-Dioxane	10.212	88	24135	369.97 ug/L	89
55) Bromodichloromethane	10.395	83	234903	24.34 ug/L	98
56) 2-Nitropropane	10.676	41	222011	169.16 ug/L	96
57) 2-Chloroethyl vinyl ether	10.622	63	503496	128.82 ug/L	94
58) 4-Methyl-2-pentanone	10.924	43	697884	143.05 ug/L	95
59) cis-1,3-Dichloropropene	10.838	75	258639	23.10 ug/L	93
62) Toluene	11.161	91	641990	19.27 ug/L	99
63) Ethyl Methacrylate	11.345	69	140714	17.90 ug/L	98
64) trans-1,3-Dichloropropene	11.420	75	253398	24.53 ug/L	94
65) 1,1,2-Trichloroethane	11.625	83	142738	22.62 ug/L	94
66) Tetrachloroethene	11.722	166	183066	20.18 ug/L	98
67) 2-hexanone	11.776	43	473537	124.51 ug/L	91
68) 1,3-Dichloropropane	11.819	76	295425	24.64 ug/L	91
69) Dibromochloromethane	12.057	129	205491	23.82 ug/L	98
70) 1,2-Dibromoethane	12.229	107	168689	22.67 ug/L	98
71) 1-Chlorohexane	12.521	91	167587	16.75 ug/L	83
72) Chlorobenzene	12.683	112	512765	21.83 ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.747	131	199998	22.99 ug/L	99
74) Ethylbenzene	12.704	91	746498	21.27 ug/L	98
75) m,p-Xylene	12.823	91	1186954	38.46 ug/L	99
76) o-Xylene	13.265	91	574450	18.71 ug/L	100
77) Styrene	13.287	104	468819	18.79 ug/L	97
78) Bromoform	13.589	173	143215	23.12 ug/L	99
80) Isopropylbenzene	13.610	105	692530	20.26 ug/L	99
81) Cyclohexanone	13.869	55	93343	871.50 ug/L #	73
83) Bromobenzene	14.074	156	242223	21.37 ug/L	98
84) 1,1,2,2-Tetrachloroethane	13.988	83	252838	23.01 ug/L	98
85) Trans-1,4-Dichloro-2-b...	14.053	53	67864	24.74 ug/L	89
86) 1,2,3-Trichloropropane	14.085	110	68568	22.31 ug/L	94
87) n-Propylbenzene	14.042	91	883478	18.10 ug/L	99
88) 2-Chlorotoluene	14.225	91	656525	18.95 ug/L	98
89) 4-Chlorotoluene	14.333	91	557142	18.52 ug/L	98
90) 1,3,5-Trimethylbenzene	14.204	105	599555	17.82 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On : 7 Feb 2010 2:09 pm
Operator : jennl
Sample : bs
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 08 08:29:03 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Pentachloroethane	14.679	167	133834	17.50	ug/L	99
92) sec-Butylbenzene	14.787	105	801954	18.03	ug/L	100
93) 1,3-Dichlorobenzene	15.024	146	418208	20.39	ug/L	97
94) 4-Isopropyltoluene	14.905	119	634868	18.38	ug/L	99
95) 1,4-Dichlorobenzene	15.110	146	457052	19.61	ug/L	97
96) tert-Butylbenzene	14.560	91	346398	18.40	ug/L	97
97) n-Butylbenzene	15.337	91	636641	17.64	ug/L	98
98) 1,2-Dichlorobenzene	15.531	146	435842	20.72	ug/L	99
99) 1,2,4-Trimethylbenzene	14.625	105	645891	18.59	ug/L	100
100) Hexachloroethane	15.747	119	143552	20.20	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	16.351	75	48560	25.74	ug/L	86
102) 1,2,4-Trichlorobenzene	17.214	180	308750	19.21	ug/L	99
103) Hexachlorobutadiene	17.279	225	137600	20.67	ug/L	98
104) Naphthalene	17.549	128	702272	20.22	ug/L	99
105) 1,2,3-Trichlorobenzene	17.840	180	313091	20.63	ug/L	99
107) TPH-GRO (C6-C10)	10.655	TIC	65056292m	981.63	ug/kg	

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

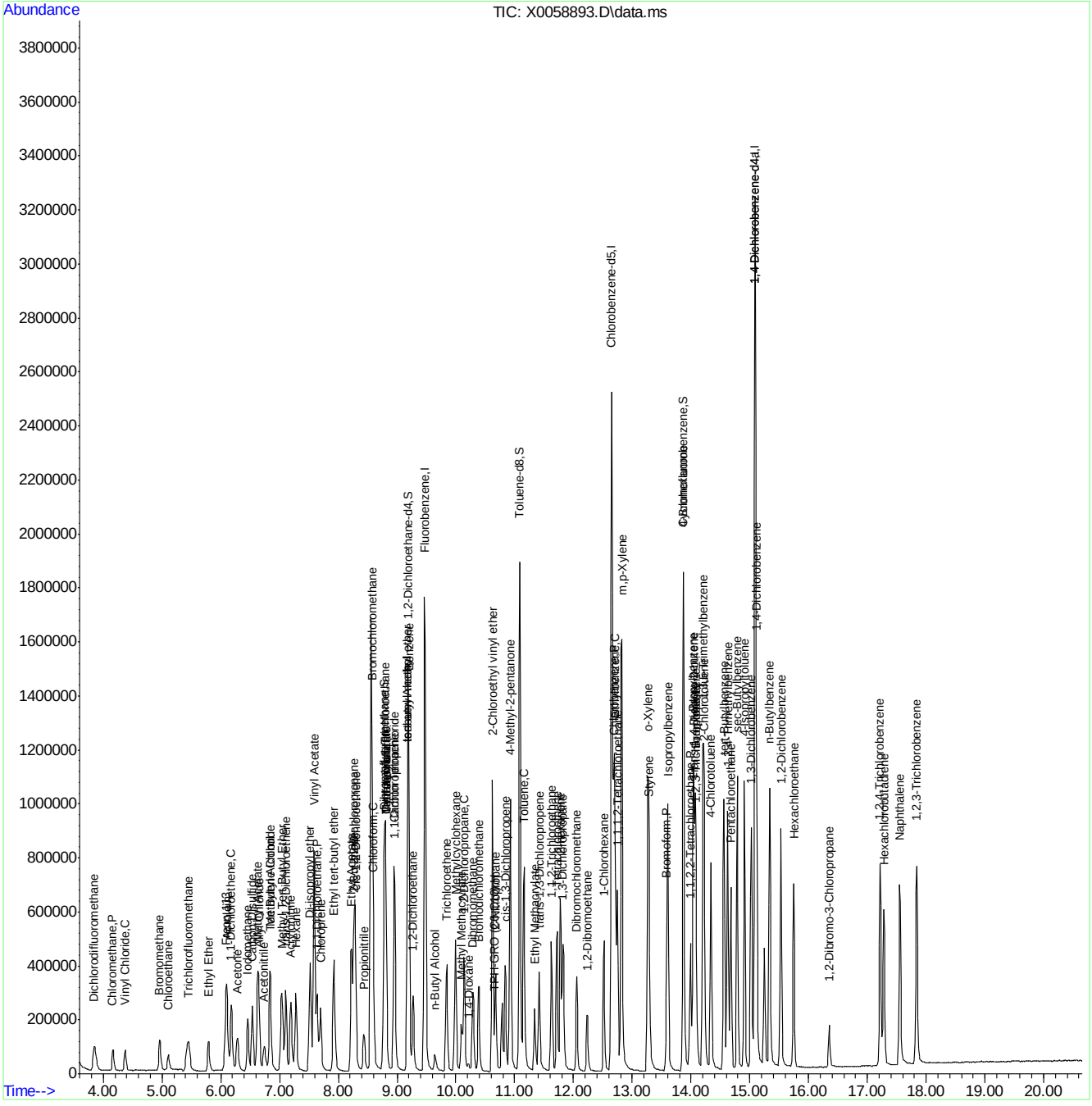
6.3.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On : 7 Feb 2010 2:09 pm
Operator : jennl
Sample : bs
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 08 08:29:03 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

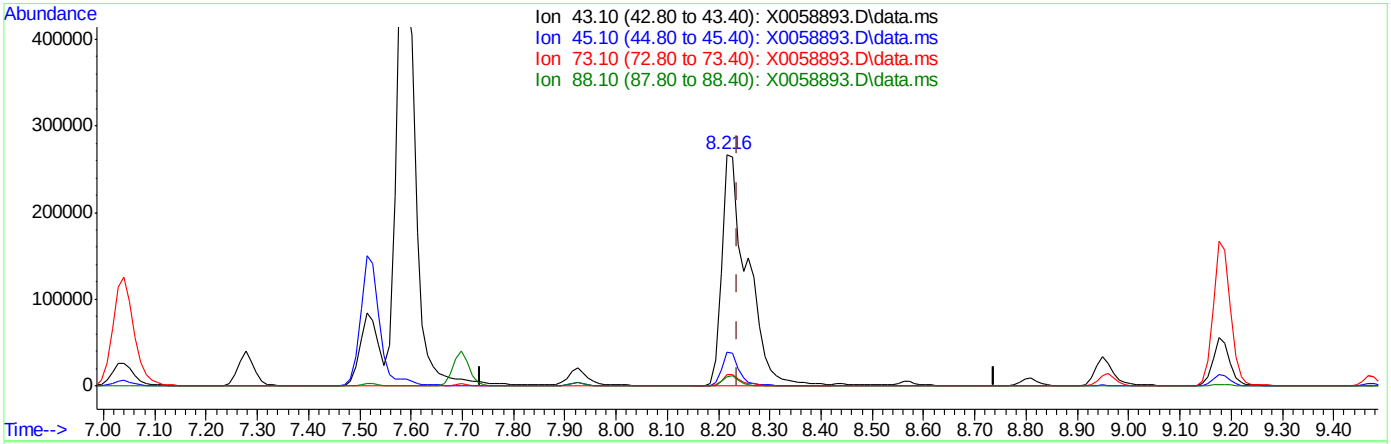


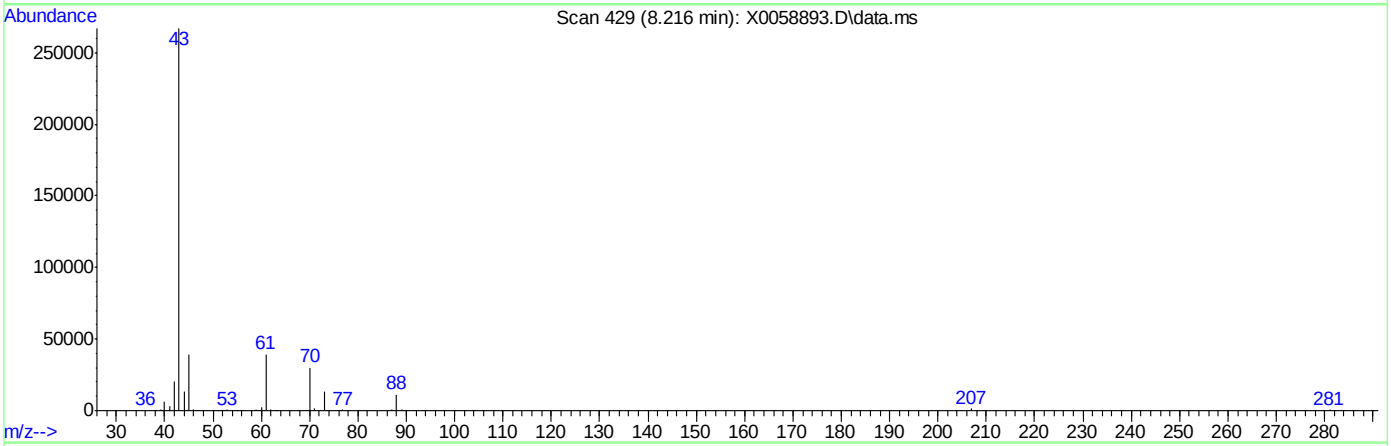
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On : 7 Feb 2010 2:09 pm
Operator : jennl
Sample : bs
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 08 08:28:46 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.216min (-0.021) 207.36ug/L

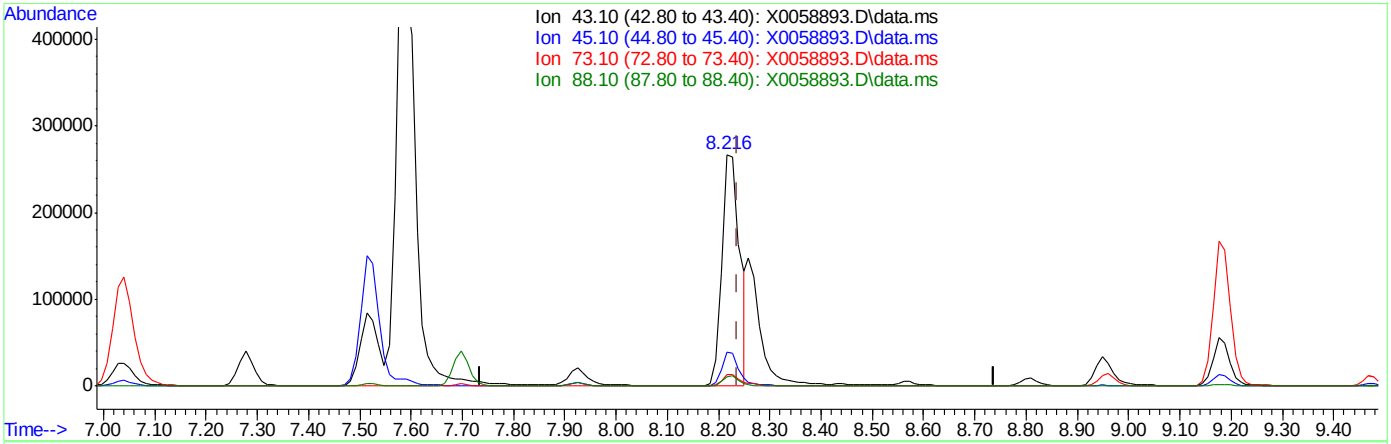
response 922394

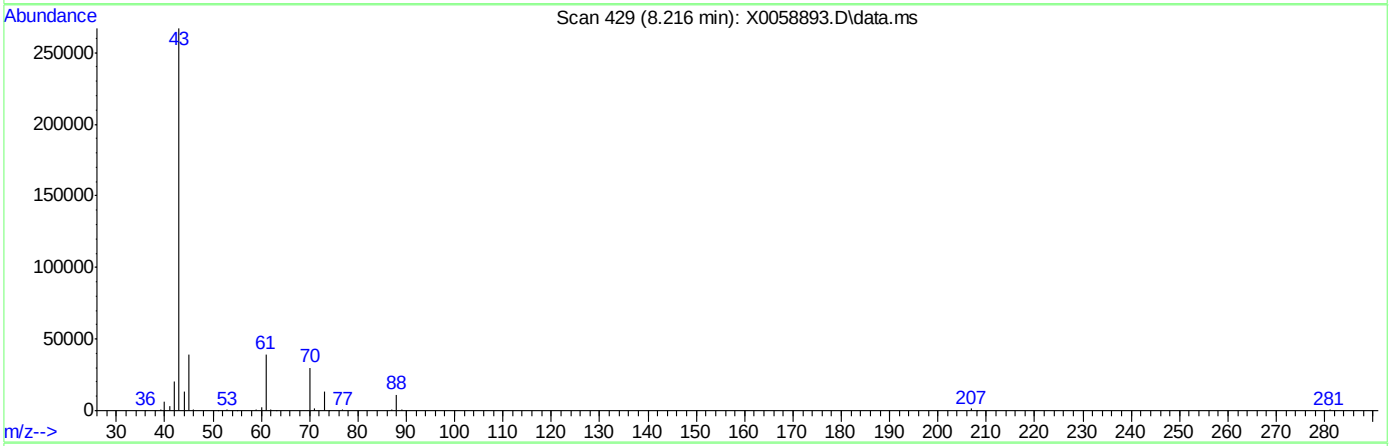
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.59
73.10	5.80	4.96
88.10	5.20	4.24

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On    :  7 Feb 2010   2:09 pm
Operator  : jennl
Sample    : bs
Misc      : ms7502,vx438,5.,,,5,,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Feb 08 08:28:46 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
```



(31) Ethyl Acetate

8.216min (-0.021) 147.13ug/L m

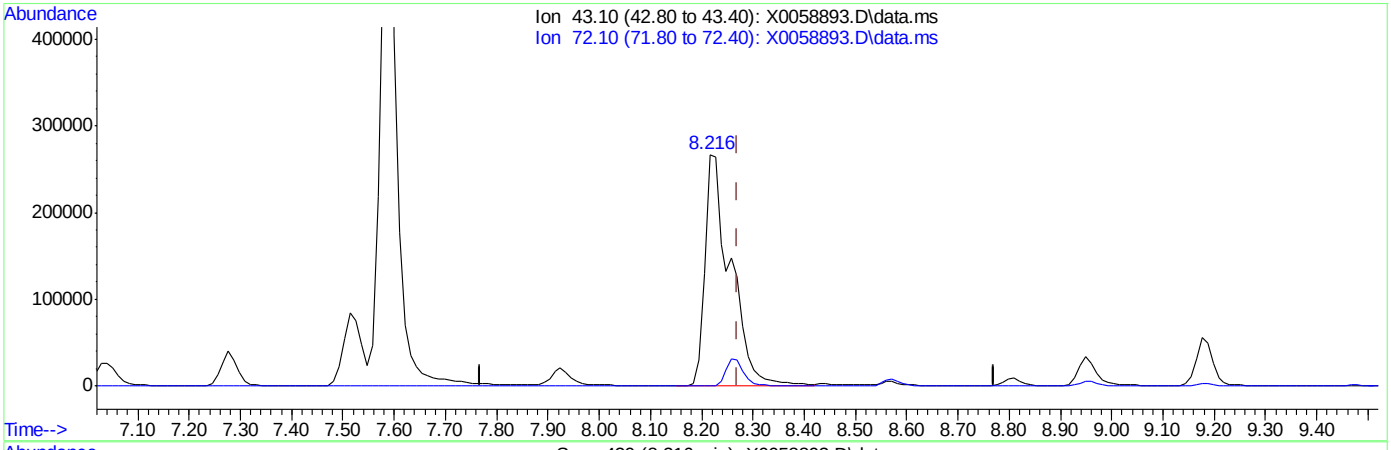
response 638998

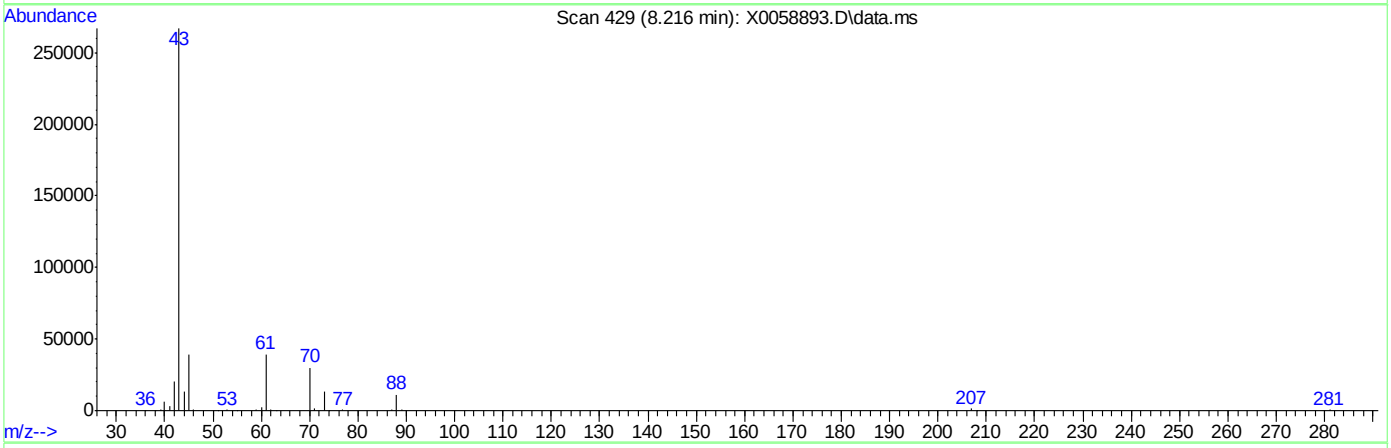
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.55
73.10	5.80	4.94
88.10	5.20	4.23

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On    :  7 Feb 2010   2:09 pm
Operator  : jennl
Sample    : bs
Misc      : ms7502,vx438,5.,,,5,,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Feb 08 08:28:46 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
```



TIC: X0058893.D\data.ms

(32) 2-Butanone

8.216min (-0.054) 453.32ug/L

response 922394

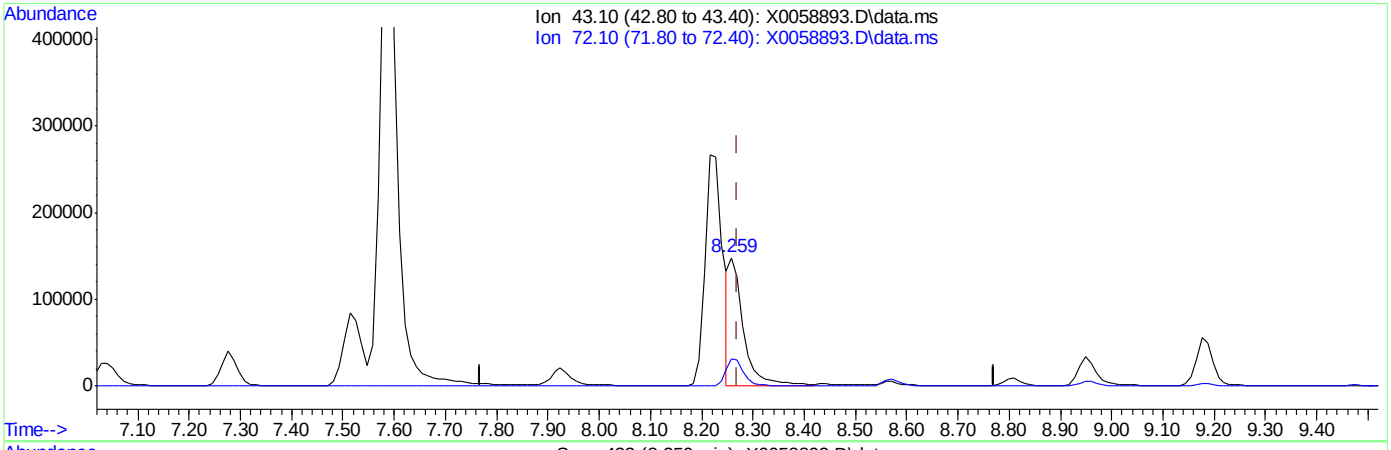
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

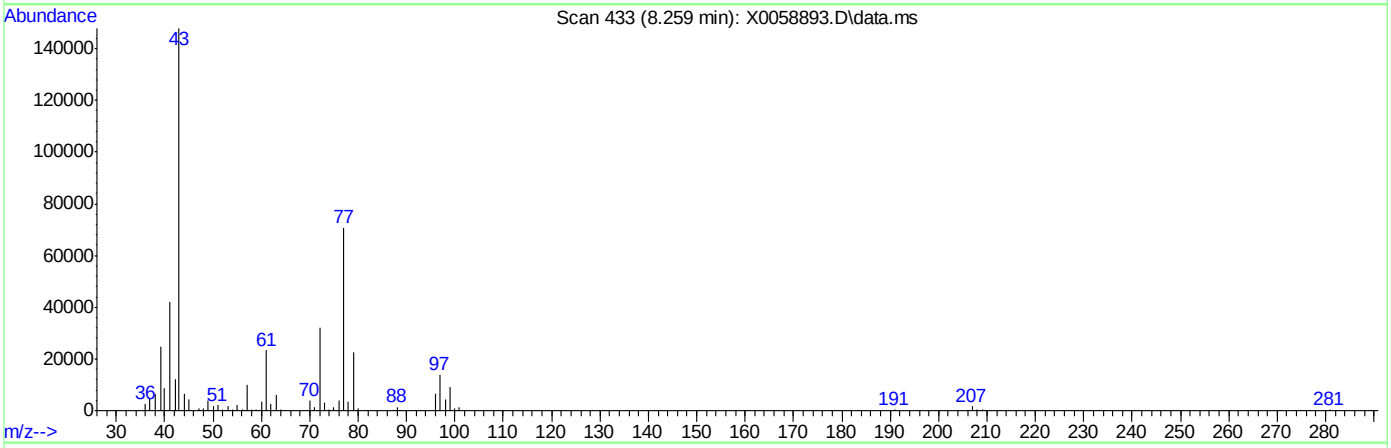
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058893.D
Acq On    :  7 Feb 2010   2:09 pm
Operator  : jennl
Sample    : bs
Misc      : ms7502,vx438,5.,,,5,,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Feb 08 08:28:46 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
```



TIC: X0058893.D\data.ms

(32) 2-Butanone

8.259min (-0.011) 117.61ug/L m

response 288594

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	21.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:27

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:37 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	579637	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	439513	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	196559	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	196559	50.00	mg/kg	0.00
System Monitoring Compounds						
40) Dibromofluoromethane	9.53	113	144747	54.41	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 108.82%			
46) 1,2-Dichloroethane-d4	9.94	65	149483	46.70	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 93.40%			
63) Toluene-d8	11.84	98	540436	53.06	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 106.12%			
84) 4-Bromofluorobenzene	14.58	95	175145	46.17	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 92.34%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.16	85	32456	38.18	ug/kg	98
3) Chloromethane	4.58	50	57689	41.00	ug/kg	99
4) Vinyl Chloride	4.81	62	49833	45.35	ug/kg	92
5) Bromomethane	5.48	94	39029	41.11	ug/kg	95
6) Chloroethane	5.65	64	30632	41.70	ug/kg	98
7) Trichlorofluoromethane	6.01	101	72177	40.94	ug/kg	97
9) Ethyl ether	6.43	59	112033	47.98	ug/kg	99
10) Acrolein	6.75	56	69544	964.80	ug/kg	89
11) 1,1-Dichloroethene	6.83	96	55571	48.46	ug/kg	96
12) Freon 113	6.75	101	47772	51.14	ug/kg	97
13) Acetone	6.94	43	134996	253.07	ug/kg	96
14) Iodomethane	7.12	142	126281	53.74	ug/kg	97
15) Methyl acetate	7.32	43	377386	216.50	ug/kg	98
16) Carbon Disulfide	7.20	76	193093	47.07	ug/kg	98
17) Allyl Chloride	7.33	41	157468	41.05	ug/kg	99
18) Acetonitrile	7.42	41	63571	448.56	ug/kg	92
19) Methylene Chloride	7.53	84	94920	51.41	ug/kg	99
20) Tert Butyl Alcohol	7.53	59	85774	428.26	ug/kg	99
21) trans-1,2-Dichloroethene	7.82	96	108554	46.00	ug/kg	94
22) Acrylonitrile	7.89	53	166313	254.08	ug/kg	98
23) Hexane	8.02	57	163951	46.93	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	293065	46.88	ug/kg	97
25) 1,1-Dichloroethane	8.37	63	226234	46.44	ug/kg	98
26) Vinyl acetate	8.33	43	1393192	255.22	ug/kg	100
27) Di-isopropyl ether	8.26	45	436832	47.06	ug/kg	100
28) Chloroprene	8.43	53	147880	16.29	ug/kg	98
29) Ethyl tert-butyl ether	8.67	59	353865	45.89	ug/kg	98
30) Ethyl Acetate	8.97	43	598074m	238.98	ug/kg	
31) 2,2-Dichloropropane	9.01	77	115253	48.19	ug/kg	99
32) cis-1,2-Dichloroethene	9.03	96	129641	49.04	ug/kg	96
33) 2-Butanone	9.01	72	56613	227.43	ug/kg#	81
34) Propionitrile	9.17	54	98306	410.40	ug/kg	99
35) Bromochloromethane	9.32	128	75575	54.97	ug/kg#	77
36) Methacrylonitrile	9.31	41	597743	669.28	ug/kg#	69

(#) = qualifier out of range (m) = manual integration
Y0037678.D VY2406AP9.M Tue Feb 09 11:36:55 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:37 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	230689	48.79	ug/kg	97
38)	Tetrahydrofuran	9.57	42	35252	47.11	ug/kg	99
39)	1,1,1-Trichloroethane	9.56	97	148090	45.30	ug/kg	91
41)	Cyclohexane	9.57	56	153540	47.56	ug/kg	98
42)	Isobutyl Alcohol	9.70	43	65110	751.17	ug/kg	93
43)	1,1-Dichloropropene	9.72	75	157003	47.76	ug/kg	94
44)	n-Butyl Alcohol	10.38	56	36267	754.42	ug/kg	98
45)	Carbon Tetrachloride	9.71	117	144612	47.16	ug/kg	95
47)	Benzene	9.95	78	496378	47.41	ug/kg	99
48)	1,2-Dichloroethane	10.02	62	172168	46.81	ug/kg	97
49)	tert-amyl methyl ether	9.94	73	318694	46.22	ug/kg	97
50)	Trichloroethene	10.60	95	118372	47.46	ug/kg	93
51)	1-Bromo-2-Chloroethane	11.53	63	161875	47.15	ug/kg	100
52)	Methylcyclohexane	10.76	83	161944	47.95	ug/kg	96
53)	Methyl Methacrylate	10.85	41	97337	41.72	ug/kg	98
54)	1,2-Dichloropropane	10.89	63	134755	49.05	ug/kg	98
55)	Dibromomethane	11.04	93	78266	48.31	ug/kg	92
56)	1,4-Dioxane	10.96	88	12834	898.70	ug/kg	91
57)	Bromodichloromethane	11.14	83	174934	47.16	ug/kg	97
58)	2-Nitropropane	11.42	41	151285	228.71	ug/kg	97
59)	2-Chloroethyl vinyl ether	11.37	63	96608	187.30	ug/kg	97
60)	4-Methyl-2-pentanone	11.68	100	76077	243.11	ug/kg#	81
61)	cis-1,3-Dichloropropene	11.59	75	215288	49.09	ug/kg	97
64)	Toluene	11.91	92	301254	42.85	ug/kg	100
65)	Ethyl Methacrylate	12.08	69	132921	36.81	ug/kg	99
66)	trans-1,3-Dichloropropene	12.15	75	195706	47.16	ug/kg	98
67)	1,1,2-Trichloroethane	12.36	83	91217	43.98	ug/kg	96
68)	Tetrachloroethene	12.46	164	104669	48.87	ug/kg	96
69)	2-hexanone	12.51	43	350244	198.08	ug/kg	97
70)	1,3-Dichloropropane	12.56	76	186246	43.49	ug/kg	99
71)	Dibromochloromethane	12.79	129	140745	46.11	ug/kg	99
72)	1,2-Dibromoethane	12.97	107	110307	45.40	ug/kg	98
73)	1-Chlorohexane	13.25	91	153925	44.49	ug/kg	98
74)	Chlorobenzene	13.42	112	361768	46.16	ug/kg	98
75)	1,1,1,2-Tetrachloroethane	13.47	131	126537	46.60	ug/kg	97
76)	Ethylbenzene	13.44	91	564638	43.63	ug/kg	96
77)	m,p-Xylene	13.55	106	458827	92.04	ug/kg	95
78)	o-Xylene	13.99	106	214442	45.42	ug/kg	95
79)	Styrene	14.00	104	383530	44.79	ug/kg	96
80)	Bromoform	14.30	173	88378	48.06	ug/kg	99
82)	Isopropylbenzene	14.33	105	492000	49.99	ug/kg	100
83)	Cyclohexanone	14.57	55	62766	876.10	ug/kg#	49
85)	Bromobenzene	14.78	156	151584	46.30	ug/kg	90
86)	1,1,2,2-Tetrachloroethane	14.69	83	120696	42.14	ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	41110	39.45	ug/kg	92
88)	1,2,3-Trichloropropane	14.79	75	100113	36.99	ug/kg	99
89)	n-Propylbenzene	14.75	91	581321	42.17	ug/kg	98
90)	2-Chlorotoluene	14.93	91	401405	41.98	ug/kg	98
91)	4-Chlorotoluene	15.04	91	358298	41.84	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:37 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

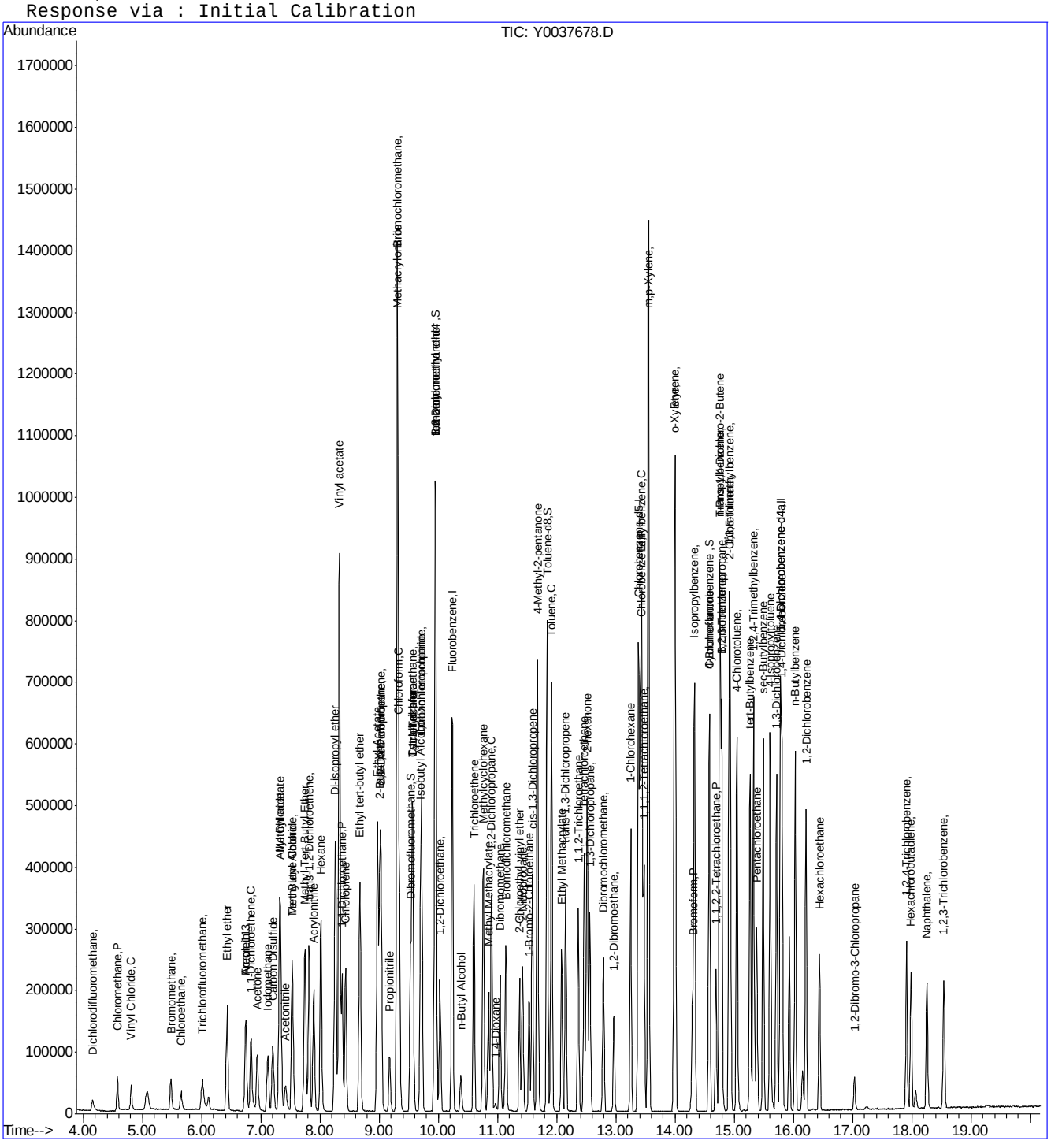
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	390750	43.10	ug/kg	98
93)	Pentachloroethane	15.38	167	64177	38.04	ug/kg	93
94)	sec-Butylbenzene	15.49	105	448210	43.14	ug/kg	99
95)	1,3-Dichlorobenzene	15.71	146	245318	45.93	ug/kg	96
96)	4-Isopropyltoluene	15.61	119	368849	43.48	ug/kg	97
97)	1,4-Dichlorobenzene	15.81	146	253961	46.36	ug/kg	97
98)	tert-Butylbenzene	15.27	91	186120	40.61	ug/kg	93
99)	n-Butylbenzene	16.03	91	333503	40.64	ug/kg	96
100)	1,2-Dichlorobenzene	16.21	146	222333	46.29	ug/kg	95
101)	1,2,4-Trimethylbenzene	15.32	105	393818	42.47	ug/kg	100
102)	Hexachloroethane	16.44	119	57147	38.30	ug/kg	96
103)	1,2-Dibromo-3-Chloropropan	17.03	75	15314	38.01	ug/kg	99
104)	1,2,4-Trichlorobenzene	17.91	180	103560	41.46	ug/kg	98
105)	Hexachlorobutadiene	17.99	225	55328	45.50	ug/kg	93
106)	Naphthalene	18.26	128	200336	41.55	ug/kg	100
107)	1,2,3-Trichlorobenzene	18.54	180	85932	41.69	ug/kg	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037678.D VY2406AP9.M Tue Feb 09 11:36:55 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 8 11:39 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

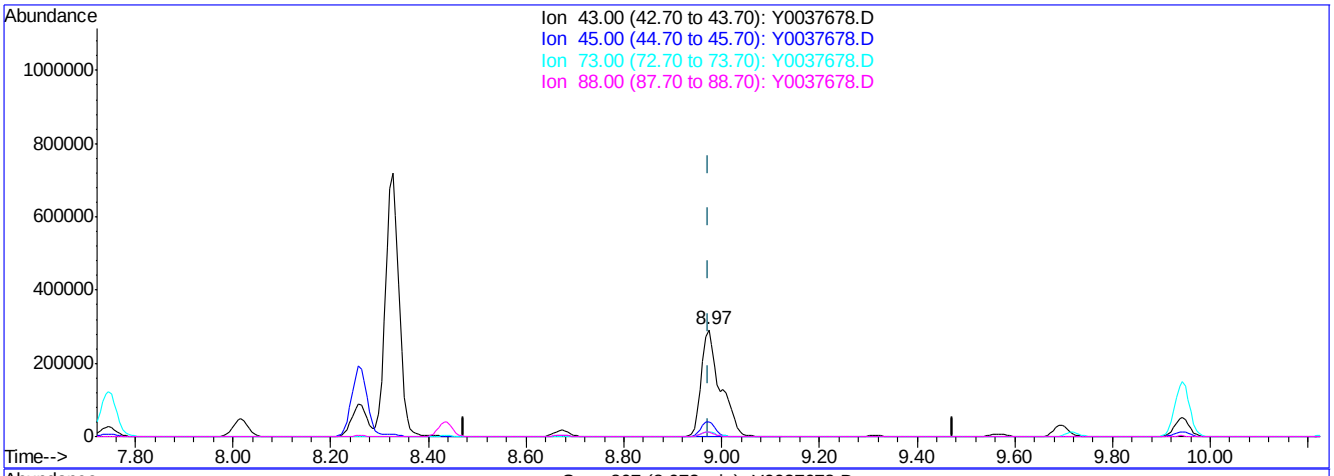


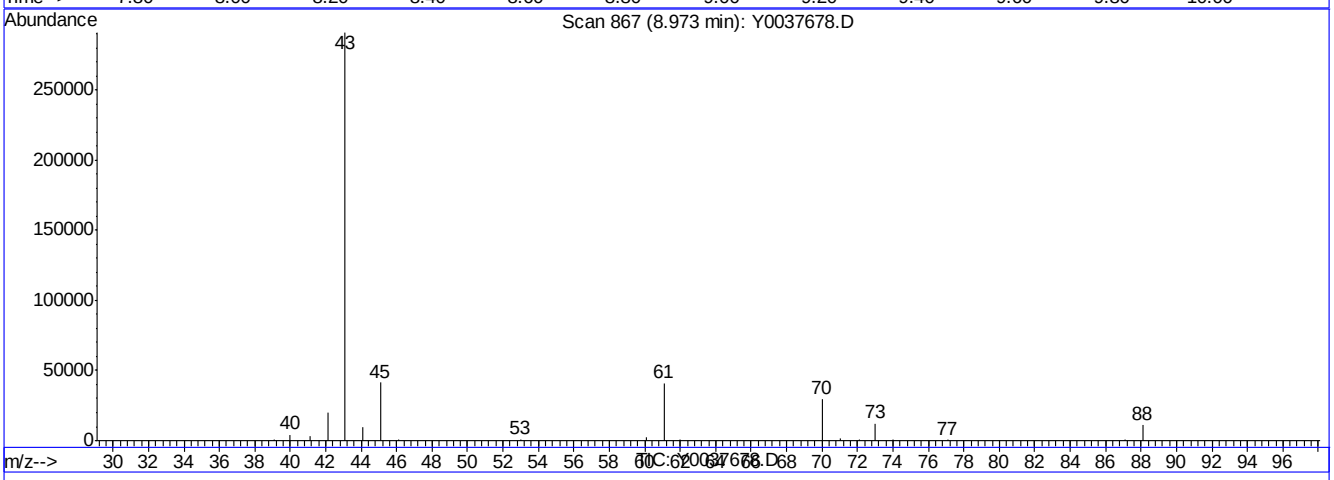
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 8 11:37 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 312.78ug/kg

response 782779

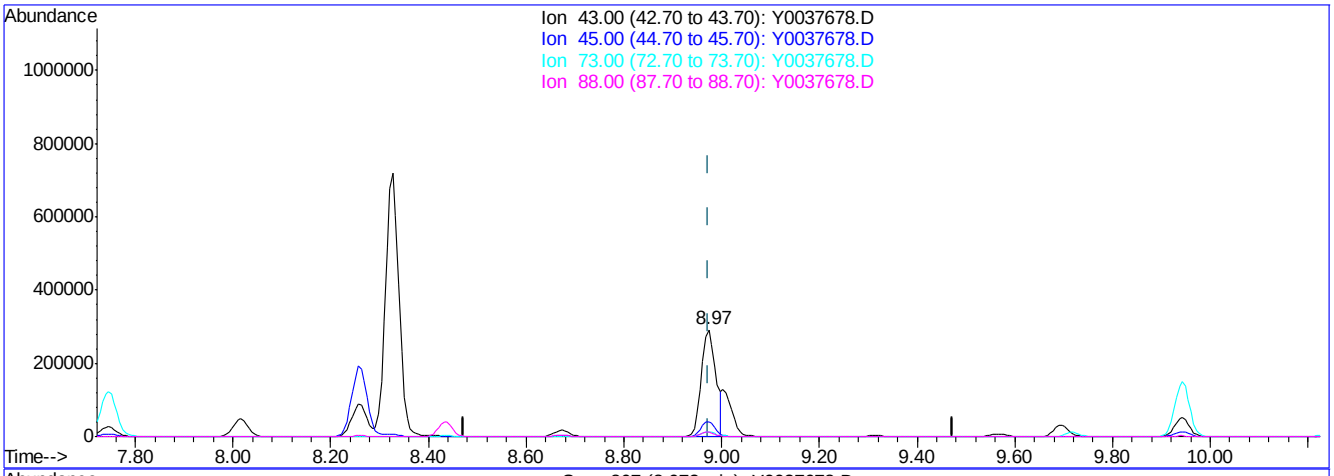
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.22
73.00	4.40	4.21
88.00	3.80	3.85

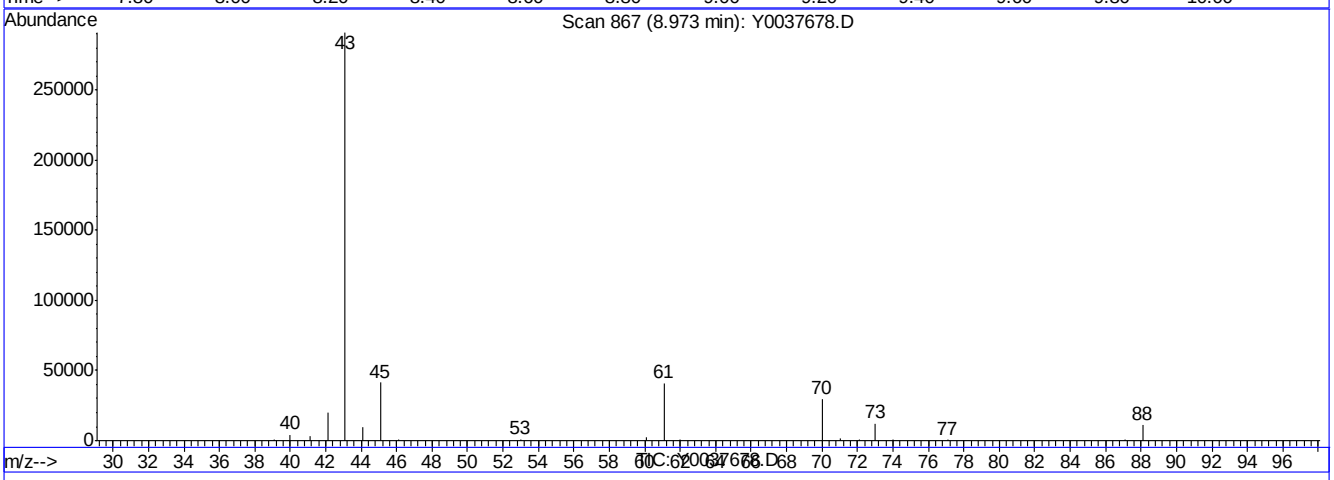
Y0037678.D VY2406AP9.M Mon Feb 08 11:39:05 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037678.D Vial: 3
Acq On : 8 Feb 2010 10:51 am Operator: jennl
Sample : bs Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 8 11:39 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 238.98ug/kg m

response 598074

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.22
73.00	4.40	4.21
88.00	3.80	3.85

Y0037678.D VY2406AP9.M Mon Feb 08 11:39:13 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:59:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1915773	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1668733	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	1056439	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	1056439	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	455080	48.93	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 97.86%			
44) 1,2-Dichloroethane-d4	9.208	65	475296	45.93	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 91.86%			
61) Toluene-d8	11.097	98	1526535	56.13	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 112.26%			
82) 4-Bromofluorobenzene	13.880	95	641675	49.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 99.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	300298	22.02	ug/L	97
3) Chloromethane	4.202	50	146996	20.40	ug/L	99
4) Vinyl Chloride	4.407	62	162187	24.18	ug/L	98
5) Bromomethane	4.990	94	128665	22.76	ug/L	98
6) Chloroethane	5.141	64	86142	23.40	ug/L	98
7) Trichlorofluoromethane	5.464	101	317821	20.99	ug/L	97
8) Ethyl Ether	5.820	59	80759	23.78	ug/L	97
9) Acrolein	6.133	56	110710	516.91	ug/L	99
10) 1,1-Dichloroethene	6.209	61	274153	26.83	ug/L	96
11) Freon 113	6.122	101	221163	25.95	ug/L	98
12) Acetone	6.306	43	190601	110.96	ug/L	99
13) Iodomethane	6.479	142	373952	27.76	ug/L	97
14) Methyl Acetate	6.651	43	474710	112.07	ug/L	99
15) Carbon Disulfide	6.565	76	635254	26.49	ug/L	97
16) Methylene Chloride	6.856	49	235818	23.56	ug/L	98
17) Tert Butyl Alcohol	6.867	59	96956	222.36	ug/L	98
18) Allyl Chloride	6.673	41	244058	26.16	ug/L	98
19) Acetonitrile	6.759	41	169705	257.55	ug/L	95
20) trans-1,2-Dichloroethene	7.126	61	262494	26.60	ug/L	98
21) Acrylonitrile	7.212	53	255683	140.84	ug/L	98
22) Methyl Tert Butyl Ether	7.061	73	440063	25.52	ug/L	98
23) Hexane	7.299	57	219105	28.32	ug/L	97
24) 1,1-Dichloroethane	7.665	63	332208	24.46	ug/L	98
25) Vinyl Acetate	7.611	43	1483447	134.97	ug/L	99
26) Di-isopropyl ether	7.536	45	493016	25.56	ug/L	99
27) Chloroprene	7.719	53	262644	8.66	ug/L	98
28) Ethyl tert-butyl ether	7.946	59	464668	24.01	ug/L	99
29) 2,2-Dichloropropane	8.291	77	300845	25.78	ug/L	100
30) cis-1,2-Dichloroethene	8.313	96	214116	28.38	ug/L	92
31) Ethyl Acetate	8.237	43	615358m	130.08	ug/L	
32) 2-Butanone	8.280	43	248895m	98.38	ug/L	
33) Propionitrile	8.453	54	195507	251.20	ug/L	98
34) Methacrylonitrile	8.831	41	169046	27.65	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:59:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Bromochloromethane	8.593	128	115723	24.21 ug/L #	87
36) Chloroform	8.615	83	359172	23.79 ug/kg	97
37) Tetrahydrofuran	8.831	42	68769	28.27 ug/L	95
38) 1,1,1-Trichloroethane	8.820	97	345822	25.72 ug/L	98
40) Cyclohexane	8.831	56	300148	28.19 ug/L	97
41) n-Butyl Alcohol	9.661	56	42566	486.90 ug/L	93
42) 1,1-Dichloropropene	8.982	75	262611	26.54 ug/L	98
43) Carbon Tetrachloride	8.971	117	332839	25.76 ug/L	100
45) Benzene	9.208	78	736990	26.71 ug/L	79
46) Isobutyl Alcohol	9.198	43	135992	251.86 ug/L	98
47) 1,2-Dichloroethane	9.295	62	260837	23.18 ug/L	98
48) tert-amyl methyl ether	9.198	73	452404	24.17 ug/L	97
49) Trichloroethene	9.856	95	203641	27.61 ug/L	99
50) Methylcyclohexane	10.007	83	319263	27.24 ug/L	99
51) Methyl Methacrylate	10.115	41	111590	24.07 ug/L	94
52) 1,2-Dichloropropane	10.158	63	187031	25.79 ug/L	99
53) Dibromomethane	10.309	93	130039	24.20 ug/kg	97
54) 1,4-Dioxane	10.233	88	26076	454.99 ug/L	95
55) Bromodichloromethane	10.406	83	262986	23.42 ug/L	100
56) 2-Nitropropane	10.697	41	194796	108.71 ug/L	98
57) 2-Chloroethyl vinyl ether	10.633	63	507091	118.52 ug/L	100
58) 4-Methyl-2-pentanone	10.945	43	634589	109.99 ug/L	98
59) cis-1,3-Dichloropropene	10.859	75	305323	24.48 ug/L	99
62) Toluene	11.172	91	814036	25.79 ug/L	100
63) Ethyl Methacrylate	11.355	69	186894	23.02 ug/L	100
64) trans-1,3-Dichloropropene	11.431	75	280822	25.38 ug/L	98
65) 1,1,2-Trichloroethane	11.647	83	149569	23.62 ug/L	97
66) Tetrachloroethene	11.733	166	254789	27.79 ug/L	97
67) 2-hexanone	11.798	43	424765	105.42 ug/L	99
68) 1,3-Dichloropropane	11.841	76	303154	24.72 ug/L	98
69) Dibromochloromethane	12.068	129	223398	23.91 ug/L	98
70) 1,2-Dibromoethane	12.251	107	183885	24.90 ug/L	99
71) 1-Chlorohexane	12.532	91	264646	25.87 ug/L	97
72) Chlorobenzene	12.693	112	625188	25.07 ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.758	131	236635	24.12 ug/L	98
74) Ethylbenzene	12.715	91	973205	26.41 ug/L	99
75) m,p-Xylene	12.834	91	1530258	49.49 ug/L	100
76) o-Xylene	13.276	91	768924	24.83 ug/L	98
77) Styrene	13.298	104	584275	23.37 ug/L	99
78) Bromoform	13.600	173	150261	23.94 ug/L	99
80) Isopropylbenzene	13.621	105	980830	29.12 ug/L	98
81) Cyclohexanone	13.880	55	83327	777.65 ug/L #	60
83) Bromobenzene	14.085	156	290917	25.43 ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	248715	23.28 ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	63454	21.65 ug/L	95
86) 1,2,3-Trichloropropane	14.096	110	66522	20.85 ug/L	99
87) n-Propylbenzene	14.053	91	1190809	25.15 ug/L	99
88) 2-Chlorotoluene	14.236	91	835413	24.63 ug/L	100
89) 4-Chlorotoluene	14.355	91	728255	24.29 ug/L	96
90) 1,3,5-Trimethylbenzene	14.215	105	816462	24.62 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:59:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

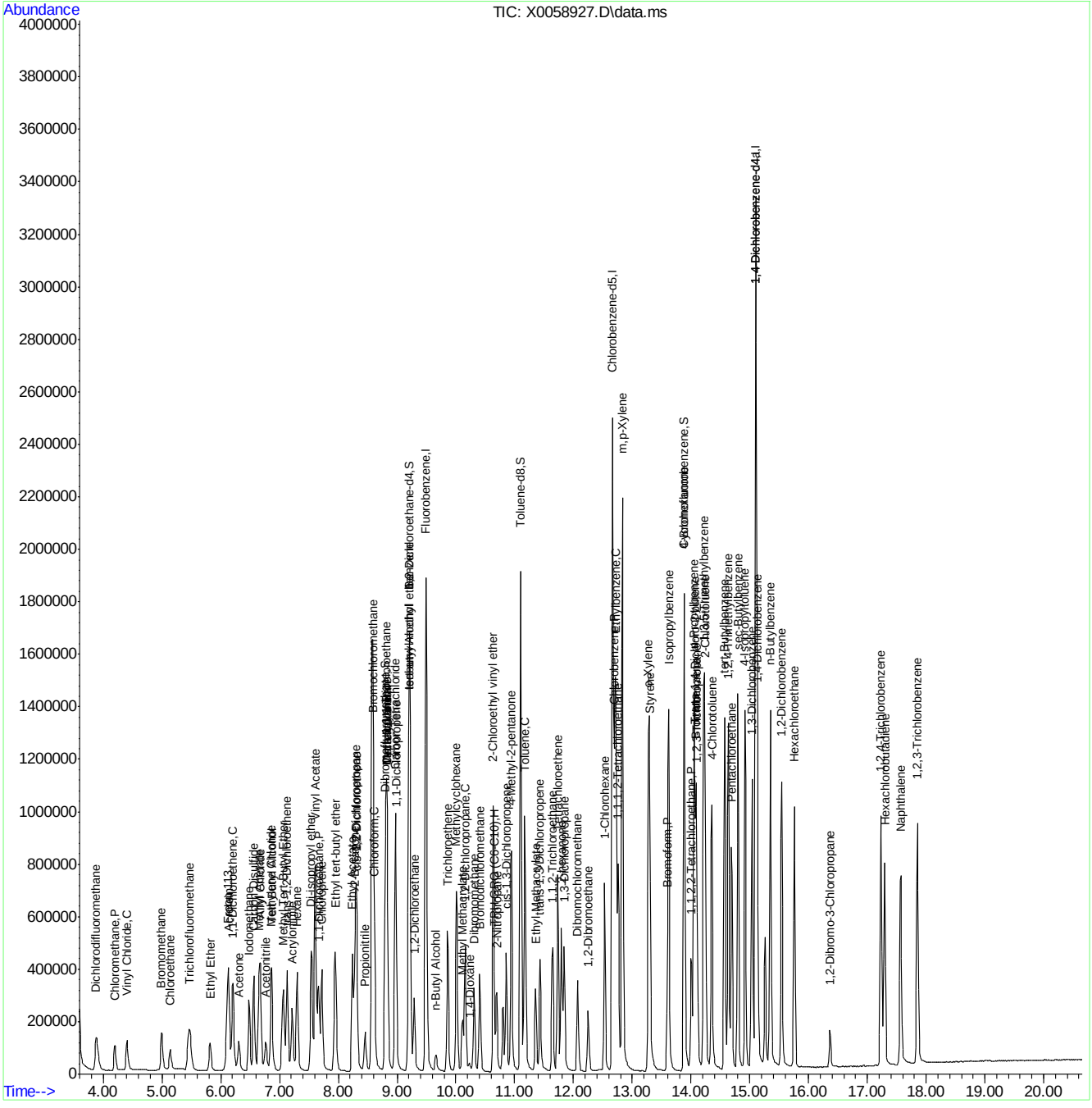
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Pentachloroethane	14.689	167	184856	22.49	ug/L	99
92) sec-Butylbenzene	14.797	105	1109861	25.08	ug/L	100
93) 1,3-Dichlorobenzene	15.035	146	544462	25.69	ug/L	99
94) 4-Isopropyltoluene	14.916	119	892134	24.89	ug/L	98
95) 1,4-Dichlorobenzene	15.132	146	589094	23.91	ug/L	99
96) tert-Butylbenzene	14.571	91	466511	24.38	ug/L	99
97) n-Butylbenzene	15.348	91	874330	24.18	ug/L	100
98) 1,2-Dichlorobenzene	15.542	146	548411	24.99	ug/L	99
99) 1,2,4-Trimethylbenzene	14.636	105	855138	24.62	ug/L	99
100) Hexachloroethane	15.758	119	214356	25.57	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	16.362	75	45980	22.51	ug/L	98
102) 1,2,4-Trichlorobenzene	17.225	180	418932	24.12	ug/L	99
103) Hexachlorobutadiene	17.301	225	197259	25.94	ug/L	99
104) Naphthalene	17.570	128	813794	23.24	ug/L	100
105) 1,2,3-Trichlorobenzene	17.851	180	402229	23.71	ug/L	99
107) TPH-GRO (C6-C10)	10.655	TIC	74391052m	1520.60	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:59:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

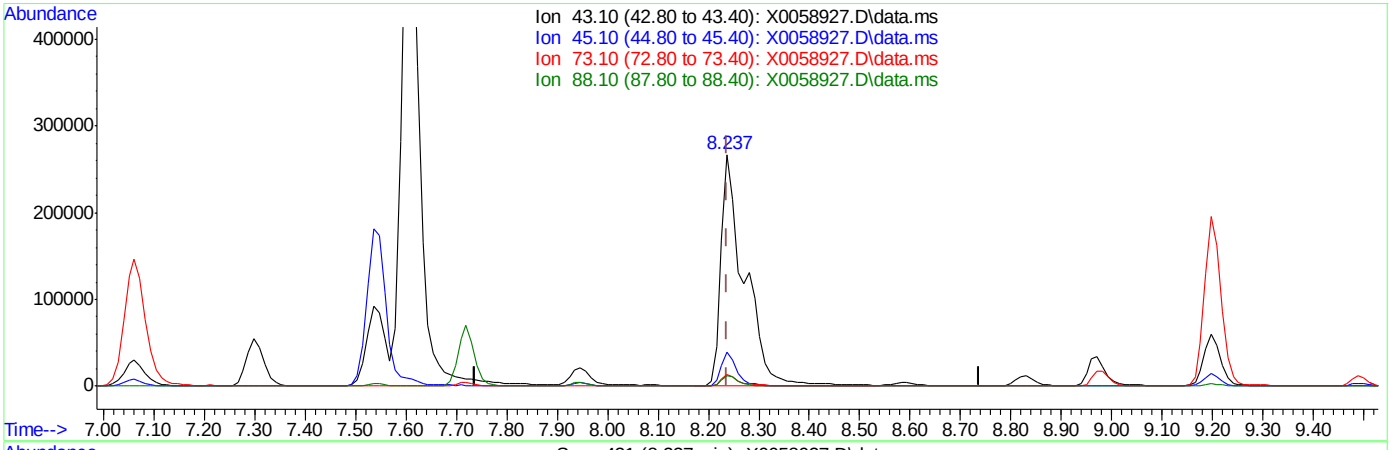


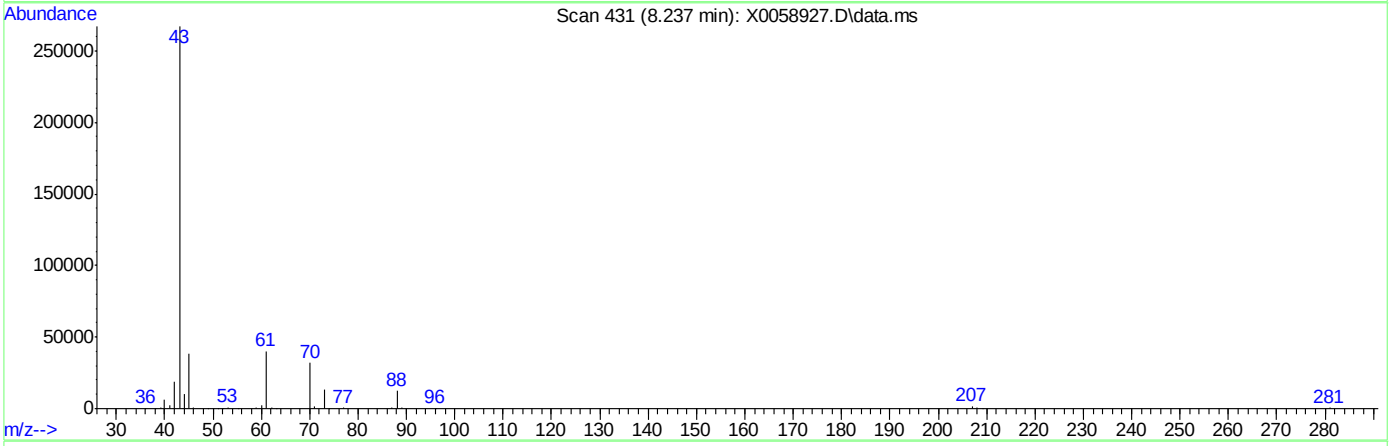
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:58:52 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (+0.000) 178.96ug/L

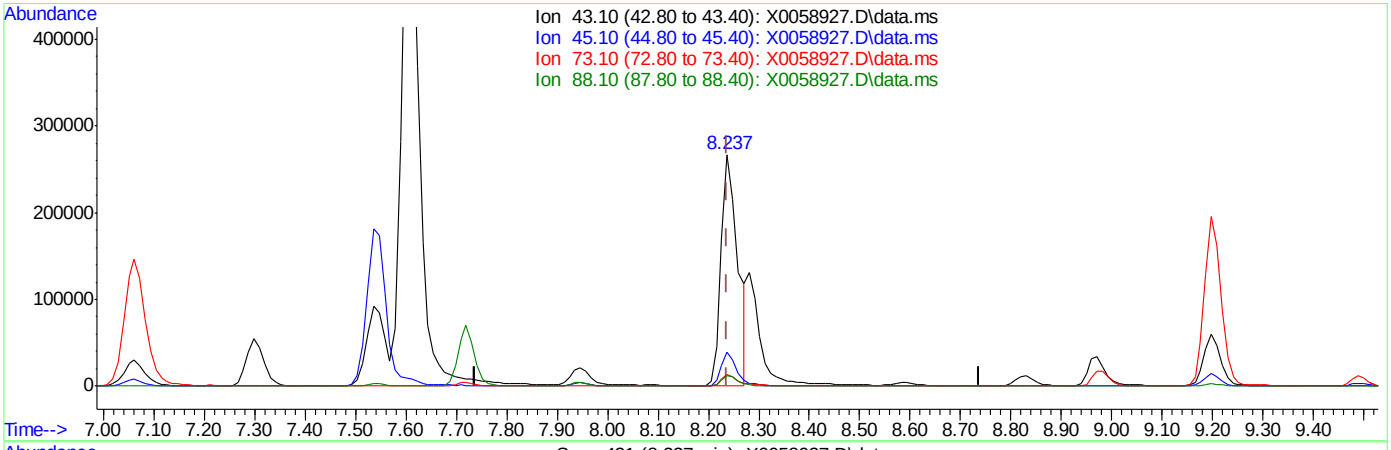
response 860504

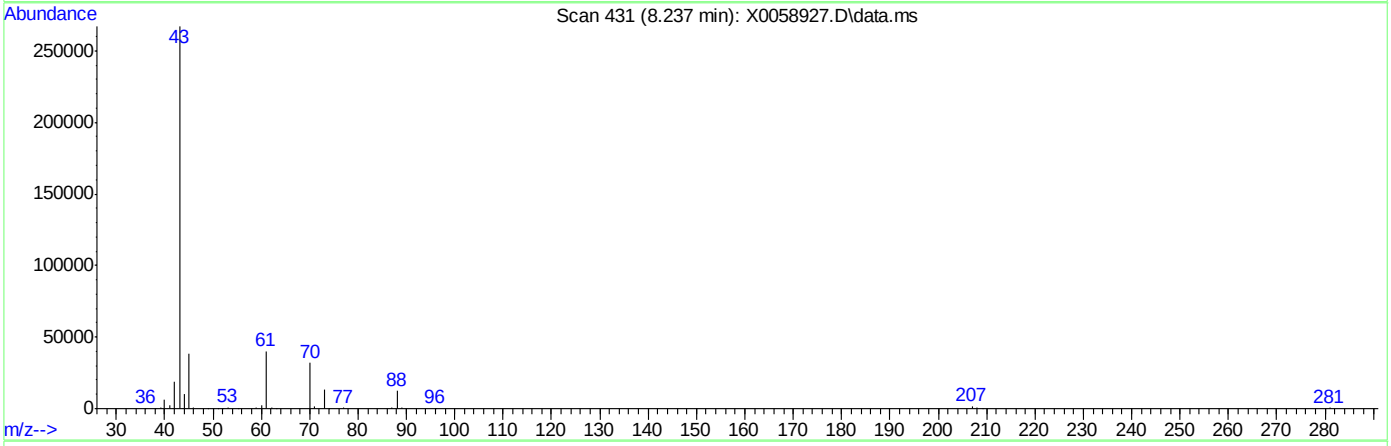
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.51
73.10	5.10	5.06
88.10	4.30	4.66

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On    :  8 Feb 2010   4:21 pm
Operator  : jennl
Sample    : bs
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Feb 09 09:58:52 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration
```



(31) Ethyl Acetate

8.237min (+0.000) 130.08ug/L m

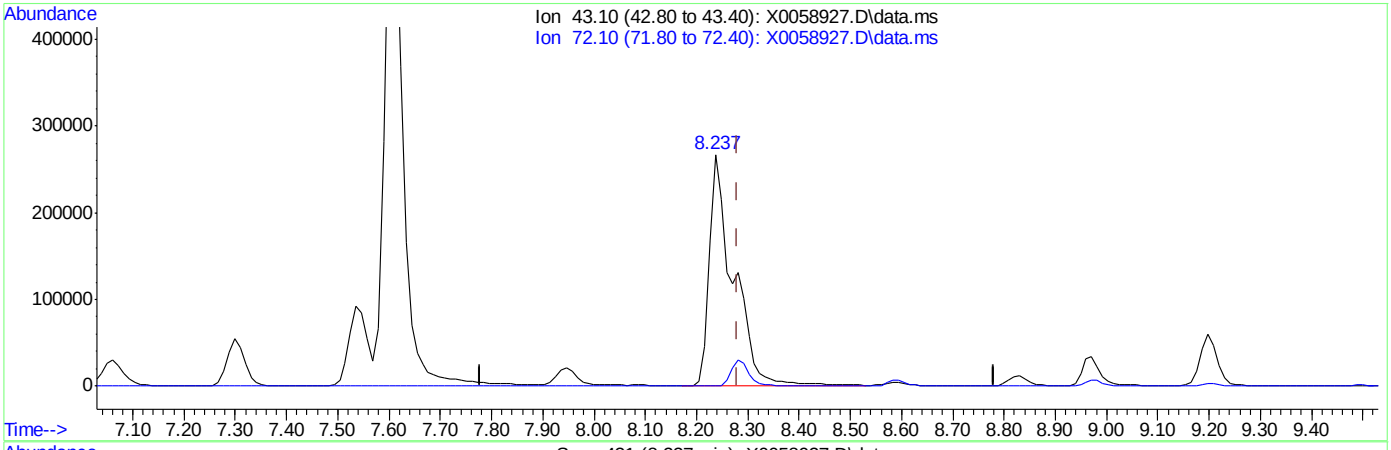
response 615358

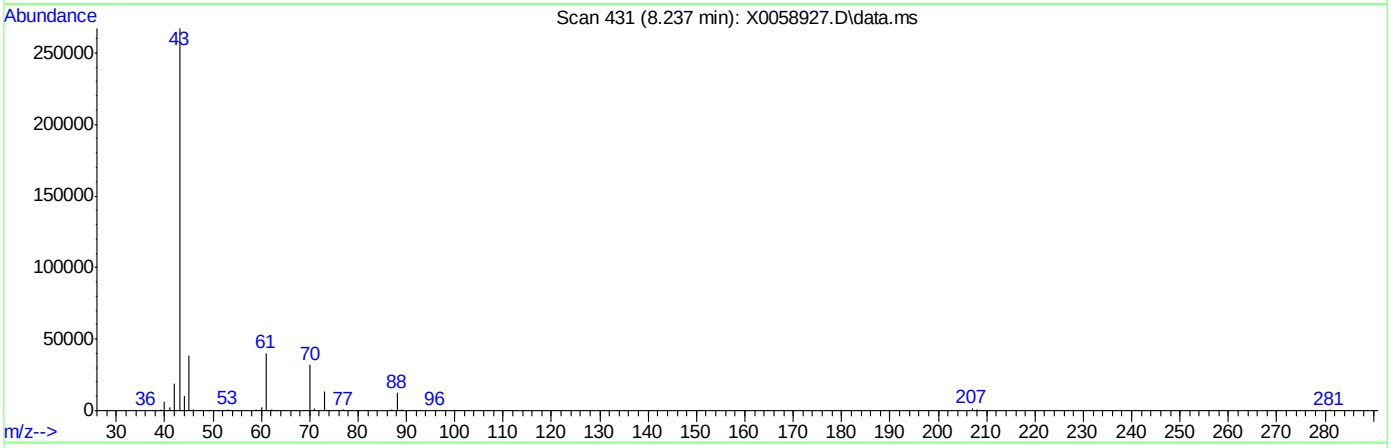
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.47
73.10	5.10	5.05
88.10	4.30	4.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:58:52 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058927.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 340.51ug/L

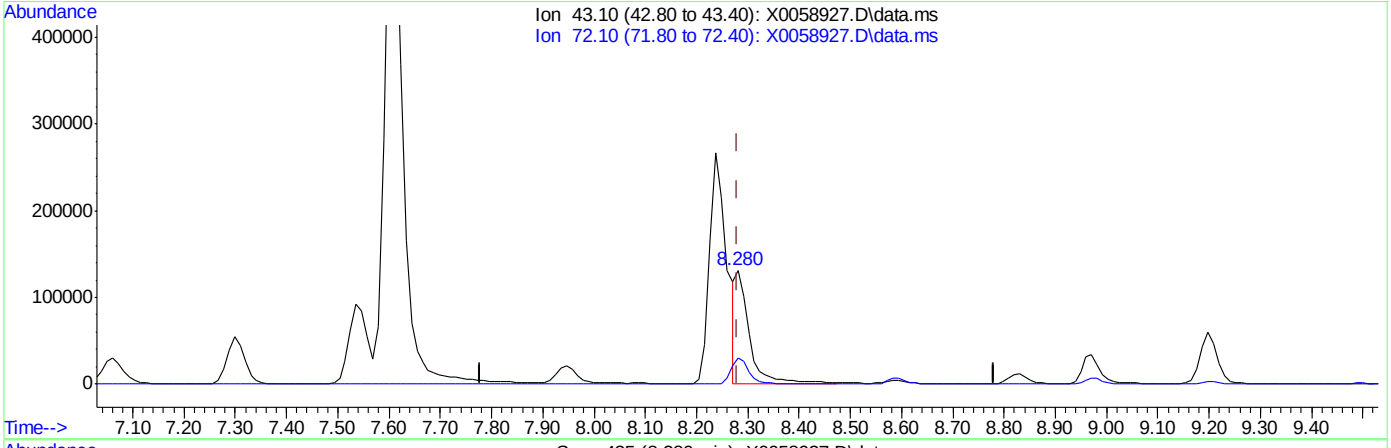
response 861476

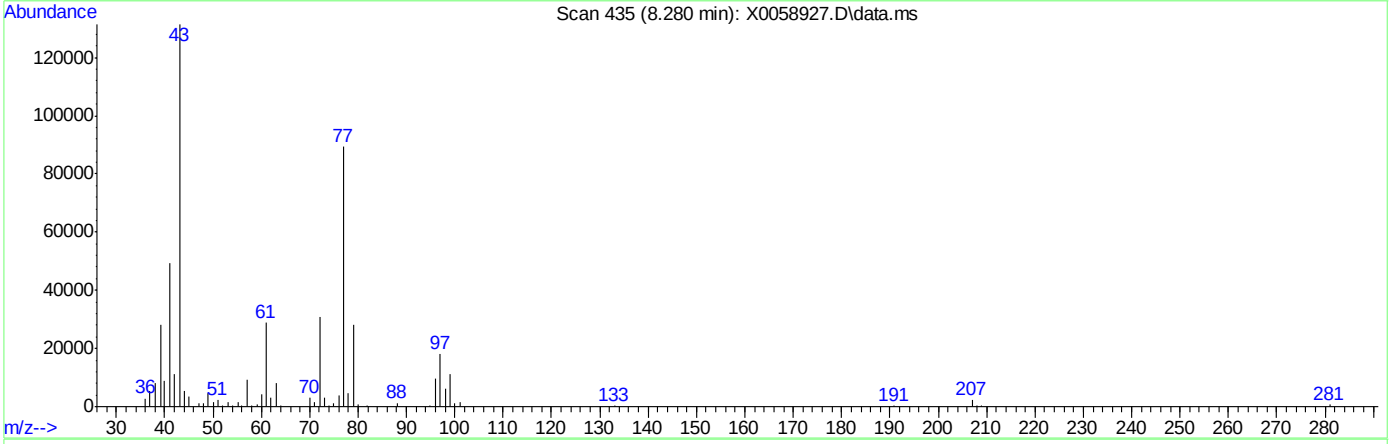
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058927.D
Acq On : 8 Feb 2010 4:21 pm
Operator : jennl
Sample : bs
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 09 09:58:52 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058927.D\data.ms

(32) 2-Butanone

8.280min (+0.000) 98.38ug/L m

response 248895

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	23.36
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/08/10 11:10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 09:37:38 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1701886	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1508247	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	953957	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	953957	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	409677	54.81	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.62%			
44) 1,2-Dichloroethane-d4	9.197	65	457187	60.74	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 121.48%#			
61) Toluene-d8	11.086	98	1333521	52.94	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 105.88%			
82) 4-Bromofluorobenzene	13.869	95	580067	47.16	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 94.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	270845	27.62	ug/L	100
3) Chloromethane	4.180	50	137007	30.11	ug/L	100
4) Vinyl Chloride	4.385	62	142287	32.80	ug/L	98
5) Bromomethane	4.979	94	111596	31.71	ug/L	99
6) Chloroethane	5.119	64	74899	30.17	ug/L	97
7) Trichlorofluoromethane	5.464	101	307324	32.33	ug/L	98
8) Ethyl Ether	5.799	59	81580	33.14	ug/L	96
9) Acrolein	6.112	56	113652	560.72	ug/L	100
10) 1,1-Dichloroethene	6.187	61	245255	29.99	ug/L	90
11) Freon 113	6.101	101	206298	29.62	ug/L	98
12) Acetone	6.295	43	213983	158.85	ug/L	92
13) Iodomethane	6.468	142	289473	23.68	ug/L	91
14) Methyl Acetate	6.630	43	489228	139.75	ug/L	94
15) Carbon Disulfide	6.543	76	564394	25.80	ug/L	89
16) Methylene Chloride	6.845	49	222592	29.06	ug/L	88
17) Tert Butyl Alcohol	6.856	59	101089	251.23	ug/L	85
18) Allyl Chloride	6.662	41	180172	28.45	ug/L	92
19) Acetonitrile	6.748	41	148032	257.68	ug/L	98
20) trans-1,2-Dichloroethene	7.115	61	235423	29.13	ug/L	91
21) Acrylonitrile	7.201	53	248912	150.47	ug/L	98
22) Methyl Tert Butyl Ether	7.050	73	360117	24.13	ug/L	93
23) Hexane	7.288	57	171472	24.72	ug/L	88
24) 1,1-Dichloroethane	7.644	63	318289	29.19	ug/L	98
25) Vinyl Acetate	7.590	43	1406372	155.00	ug/L	95
26) Di-isopropyl ether	7.525	45	399462	24.74	ug/L	90
27) Chloroprene	7.708	53	192047	11.59	ug/L	92
28) Ethyl tert-butyl ether	7.935	59	388265	23.80	ug/L	99
29) 2,2-Dichloropropane	8.280	77	276753	32.46	ug/L	97
30) cis-1,2-Dichloroethene	8.291	96	192350	28.25	ug/L	91
31) Ethyl Acetate	8.226	43	579587m	141.21	ug/L	
32) 2-Butanone	8.270	43	354323m	156.88	ug/L	
33) Propionitrile	8.442	54	182410	250.32	ug/L	96
34) Methacrylonitrile	8.809	41	155988	34.51	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 09:37:38 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.572	128	113973	27.86	ug/L #	67
36) Chloroform	8.593	83	362562	29.79	ug/kg	97
37) Tetrahydrofuran	8.809	42	59890	32.19	ug/L	97
38) 1,1,1-Trichloroethane	8.809	97	323329	31.77	ug/L	97
40) Cyclohexane	8.809	56	255571	27.66	ug/L	93
41) n-Butyl Alcohol	9.651	56	41041	466.39	ug/L	95
42) 1,1-Dichloropropene	8.960	75	240729	28.76	ug/L	87
43) Carbon Tetrachloride	8.949	117	320320	35.01	ug/L	99
45) Benzene	9.197	78	701514	28.50	ug/L	71
46) Isobutyl Alcohol	9.187	43	129006	294.71	ug/L	89
47) 1,2-Dichloroethane	9.273	62	270420	32.15	ug/L	99
48) tert-amyl methyl ether	9.187	73	398059	24.96	ug/L	91
49) Trichloroethene	9.845	95	179472	27.44	ug/L	99
50) Methylcyclohexane	9.996	83	258774	24.99	ug/L	94
51) Methyl Methacrylate	10.093	41	83416	24.54	ug/L	83
52) 1,2-Dichloropropane	10.147	63	178914	28.85	ug/L	91
53) Dibromomethane	10.298	93	131301	28.40	ug/kg	96
54) 1,4-Dioxane	10.223	88	23458	377.22	ug/L	96
55) Bromodichloromethane	10.395	83	256085	27.98	ug/L	99
56) 2-Nitropropane	10.686	41	226165	181.72	ug/L	91
57) 2-Chloroethyl vinyl ether	10.784	63	225910	51.50	ug/L #	26
58) 4-Methyl-2-pentanone	10.924	43	734527	160.10	ug/L	94
59) cis-1,3-Dichloropropene	10.848	75	263596	24.76	ug/L	95
62) Toluene	11.161	91	741965	23.51	ug/L	99
63) Ethyl Methacrylate	11.345	69	143661	18.83	ug/L	98
64) trans-1,3-Dichloropropene	11.420	75	268481	27.00	ug/L	93
65) 1,1,2-Trichloroethane	11.625	83	151389	25.05	ug/L	94
66) Tetrachloroethene	11.722	166	221735	25.53	ug/L	97
67) 2-hexanone	11.776	43	503693	138.14	ug/L	91
68) 1,3-Dichloropropane	11.830	76	313775	27.33	ug/L	93
69) Dibromochloromethane	12.057	129	217510	26.33	ug/L	99
70) 1,2-Dibromoethane	12.240	107	178879	25.10	ug/L	99
71) 1-Chlorohexane	12.521	91	211591	21.54	ug/L	82
72) Chlorobenzene	12.683	112	581920	25.87	ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.747	131	222281	26.68	ug/L	99
74) Ethylbenzene	12.704	91	895966	26.66	ug/L	97
75) m,p-Xylene	12.823	91	1424063	49.96	ug/L	99
76) o-Xylene	13.265	91	680584	23.44	ug/L	98
77) Styrene	13.287	104	537030	22.64	ug/L	95
78) Bromoform	13.589	173	154665	25.63	ug/L	100
80) Isopropylbenzene	13.610	105	857364	25.54	ug/L	99
81) Cyclohexanone	13.869	55	23267	254.66	ug/L #	21
83) Bromobenzene	14.074	156	272946	24.54	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.988	83	269462	24.99	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.053	53	72516	27.01	ug/L #	90
86) 1,2,3-Trichloropropane	14.085	110	72293	23.97	ug/L	92
87) n-Propylbenzene	14.042	91	1089247	23.17	ug/L	98
88) 2-Chlorotoluene	14.225	91	790729	23.82	ug/L	98
89) 4-Chlorotoluene	14.344	91	665825	22.65	ug/L	99
90) 1,3,5-Trimethylbenzene	14.204	105	731509	22.35	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 09:37:38 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

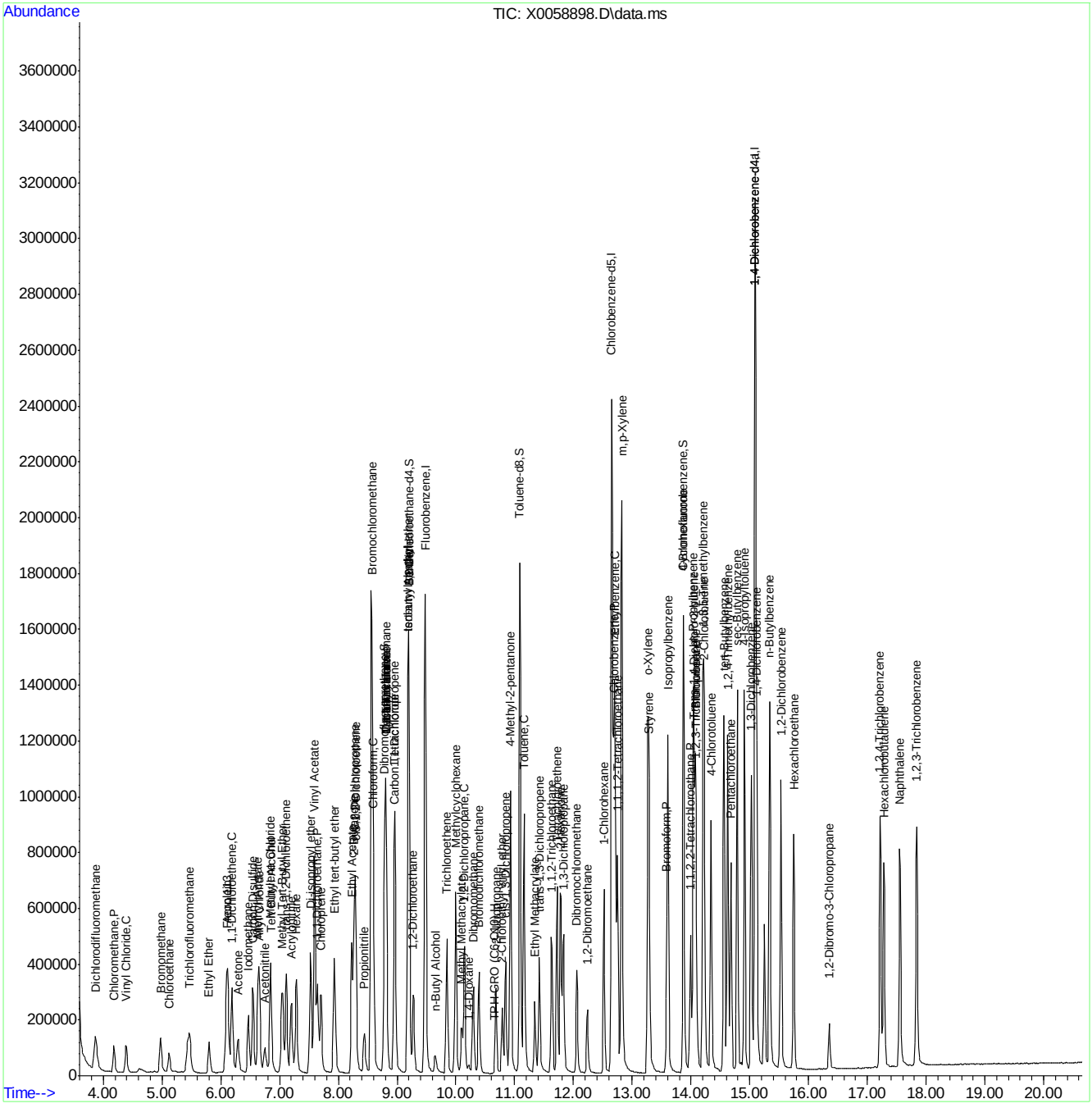
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.679	167	154221	20.55	ug/L	98
92)	sec-Butylbenzene	14.787	105	999485	23.10	ug/L	100
93)	1,3-Dichlorobenzene	15.024	146	493280	24.51	ug/L	97
94)	4-Isopropyltoluene	14.905	119	822114	24.19	ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	546365	23.89	ug/L	99
96)	tert-Butylbenzene	14.560	91	436231	23.62	ug/L	95
97)	n-Butylbenzene	15.337	91	801302	23.03	ug/L	98
98)	1,2-Dichlorobenzene	15.531	146	504583	24.44	ug/L	99
99)	1,2,4-Trimethylbenzene	14.625	105	781118	23.06	ug/L	99
100)	Hexachloroethane	15.747	119	176627	25.33	ug/L	97
101)	1,2-Dibromo-3-Chloropr...	16.351	75	51664	27.91	ug/L	86
102)	1,2,4-Trichlorobenzene	17.214	180	363102	22.59	ug/L	98
103)	Hexachlorobutadiene	17.279	225	171952	26.32	ug/L	96
104)	Naphthalene	17.549	128	808771	23.24	ug/L	100
105)	1,2,3-Trichlorobenzene	17.840	180	369956	24.84	ug/L	98
107)	TPH-GRO (C6-C10)	10.655	TIC	69605901m	1117.76	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

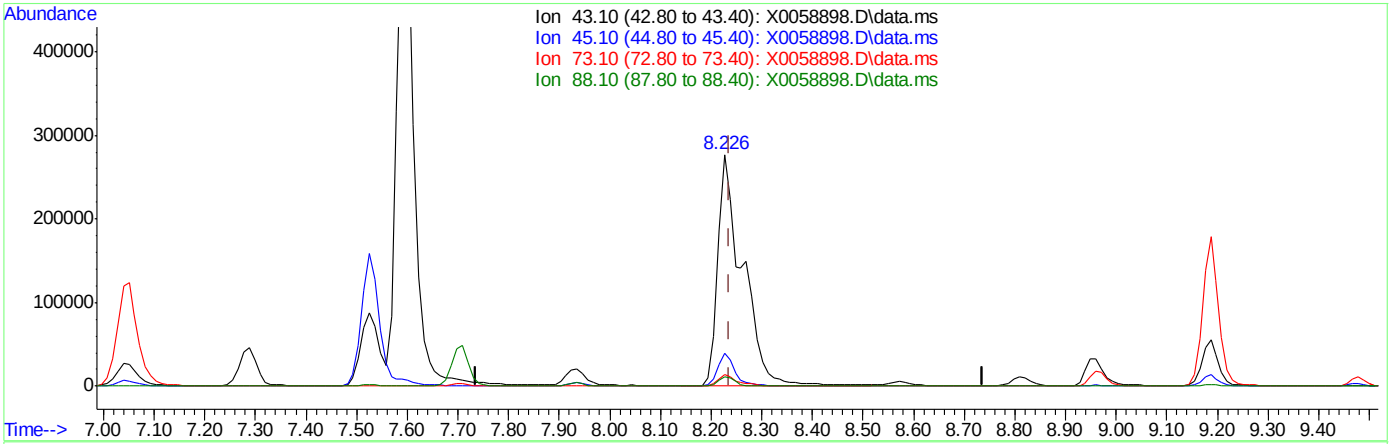
Quant Time: Feb 08 09:37:38 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

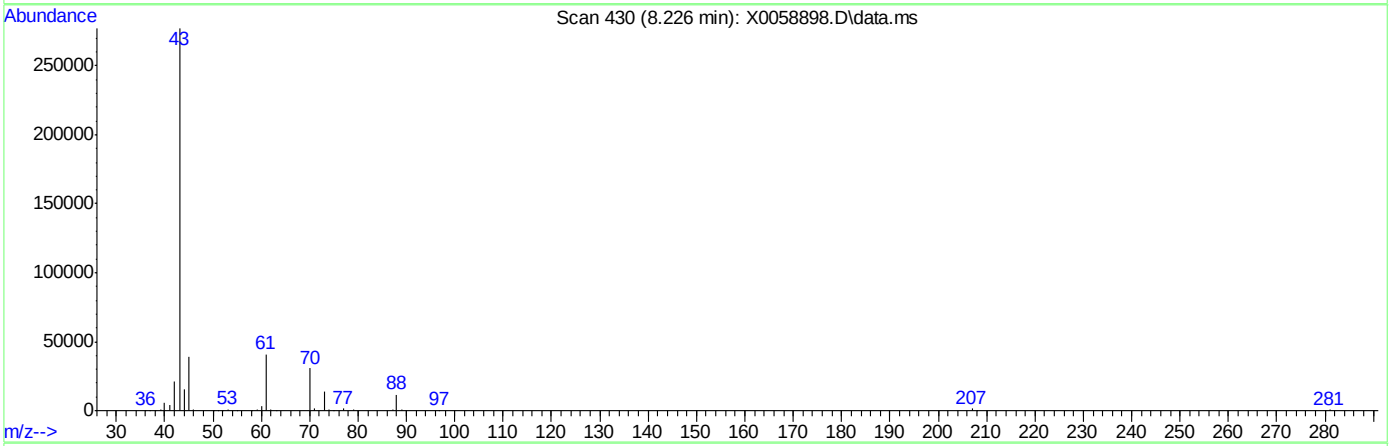


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 09:12:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.226min (-0.011) 220.40ug/L

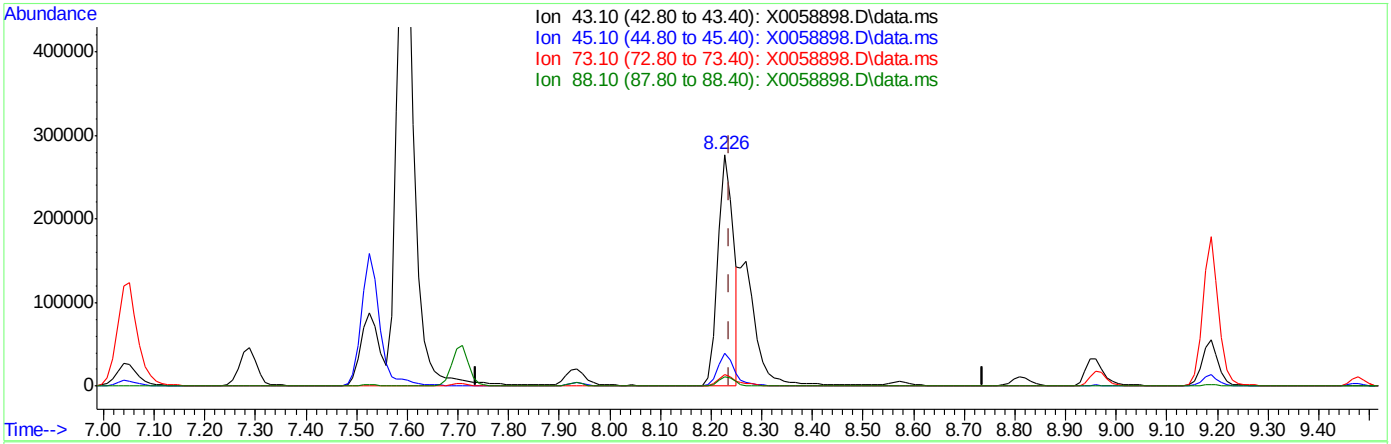
response 932927

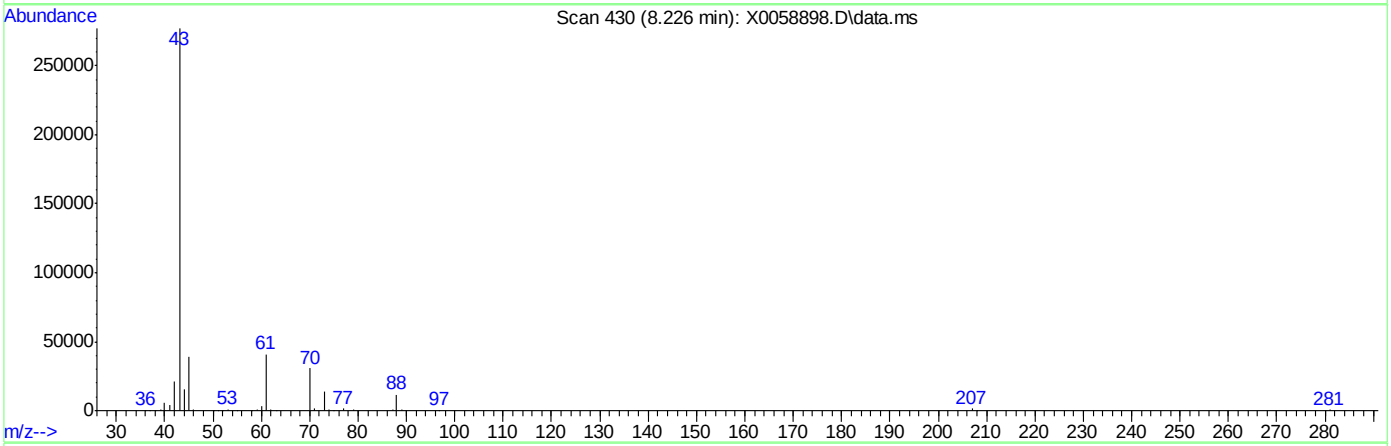
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.20
73.10	5.80	4.97
88.10	5.20	4.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On : 7 Feb 2010 4:32 pm
Operator : jennl
Sample : t46705-1MS
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 09:12:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058898.D\data.ms

(31) Ethyl Acetate

8.226min (-0.011) 141.21ug/L m

response 579587

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.17
73.10	5.80	4.96
88.10	5.20	4.17

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On    :  7 Feb 2010   4:32 pm
Operator  : jennl
Sample    : t46705-1MS
Misc      : ms7507,vx438,5.,,,5,,water
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Feb 08 09:12:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
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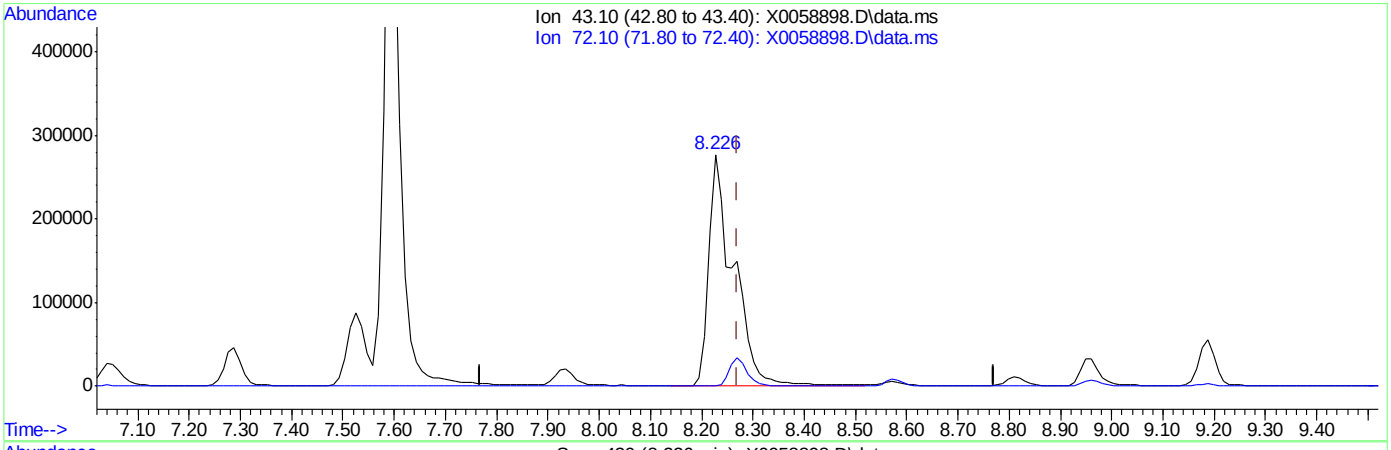

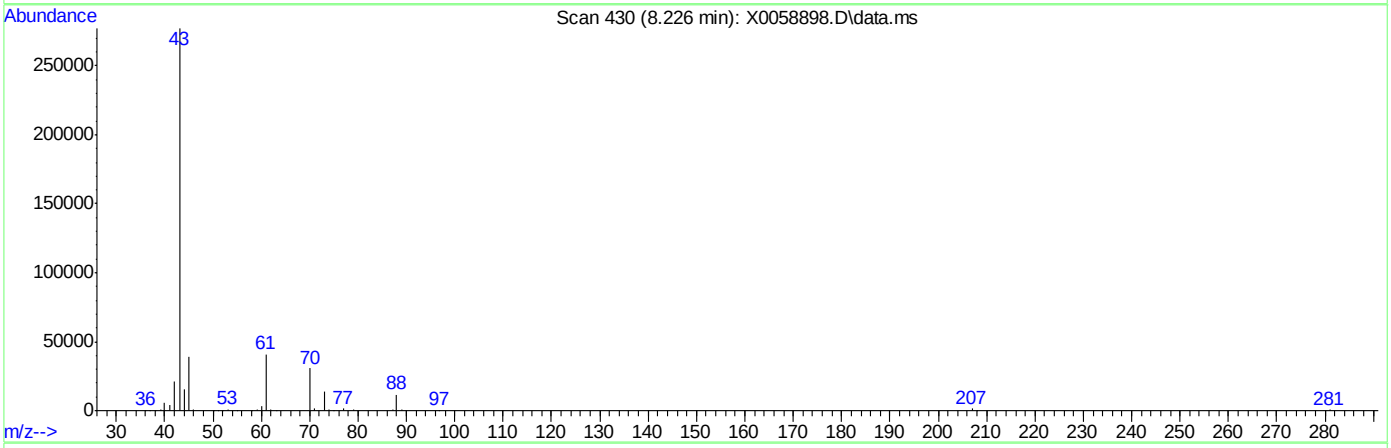

TIC: X0058898.D\data.ms

(32) 2-Butanone

8.226min (-0.044) 493.59ug/L

response 933391

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058898.D
Acq On    :  7 Feb 2010   4:32 pm
Operator  : jennl
Sample    : t46705-1MS
Misc      : ms7507,vx438,5.,,,5,,water
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Feb 08 09:12:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
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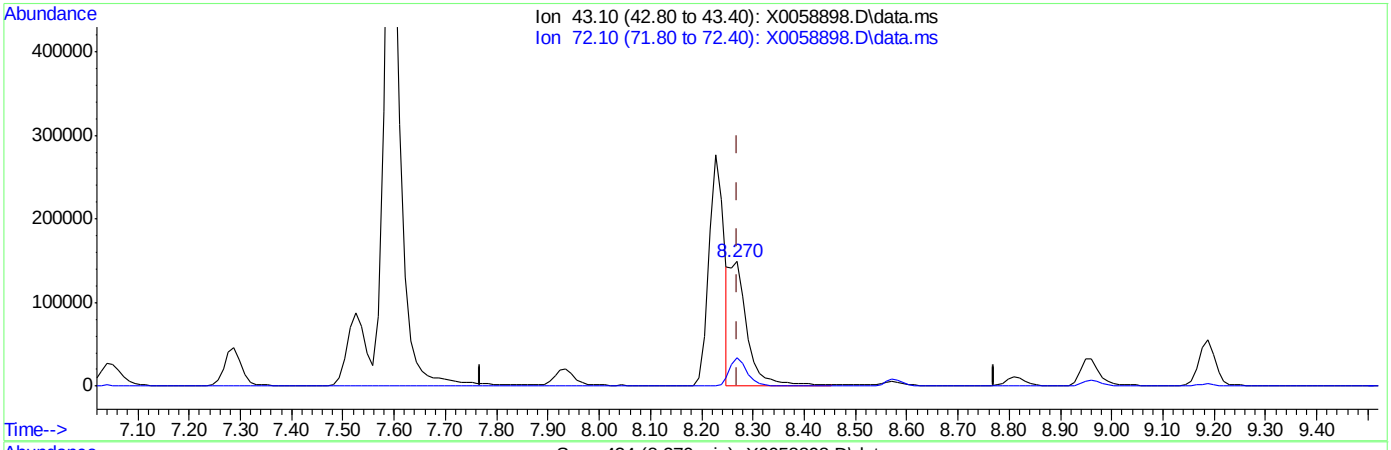
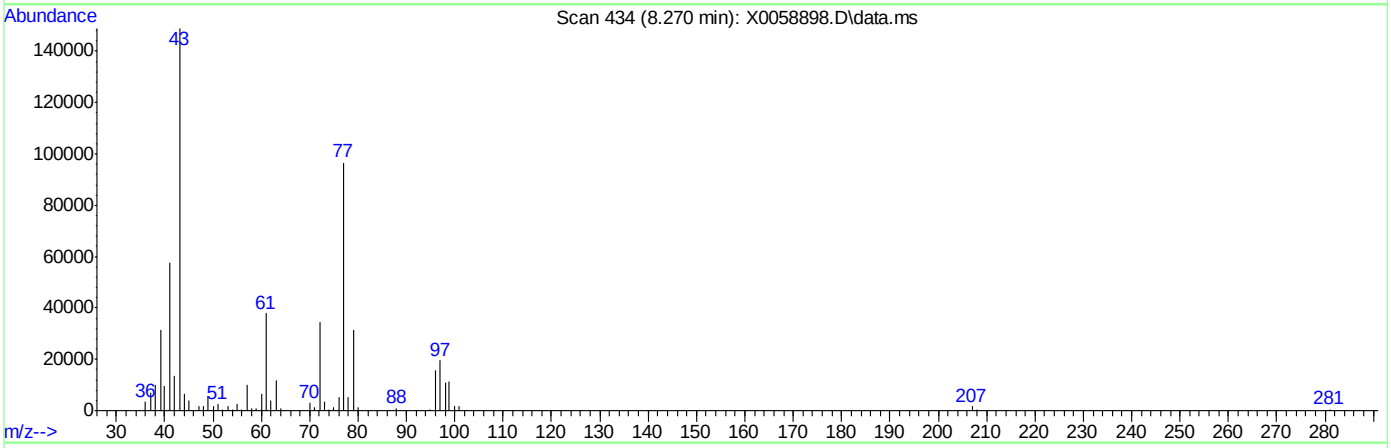




TIC: X0058898.D\data.ms

(32) 2-Butanone

8.270min (-0.000) 156.88ug/L m

response 354323

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	23.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/08/10 11:10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:38:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	1791259	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.650	117	1551575	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	969314	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	969314	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	428436	54.46	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 108.92%			
44) 1,2-Dichloroethane-d4	9.197	65	465308	58.73	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 117.46%			
61) Toluene-d8	11.086	98	1383377	53.39	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 106.78%			
82) 4-Bromofluorobenzene	13.869	95	599623	47.97	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 95.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	283012	27.42	ug/L	97
3) Chloromethane	4.180	50	141160	29.47	ug/L	99
4) Vinyl Chloride	4.396	62	148230	32.47	ug/L	100
5) Bromomethane	4.979	94	112674	30.28	ug/L	100
6) Chloroethane	5.119	64	77151	29.53	ug/L	98
7) Trichlorofluoromethane	5.475	101	305100	30.49	ug/L	99
8) Ethyl Ether	5.809	59	89372	34.49	ug/L	97
9) Acrolein	6.122	56	127059	595.59	ug/L	97
10) 1,1-Dichloroethene	6.187	61	260978	30.32	ug/L	90
11) Freon 113	6.112	101	211668	28.88	ug/L	99
12) Acetone	6.295	43	225610	159.14	ug/L	91
13) Iodomethane	6.468	142	318651	24.77	ug/L	94
14) Methyl Acetate	6.629	43	523694	142.13	ug/L	94
15) Carbon Disulfide	6.554	76	585264	25.41	ug/L	91
16) Methylene Chloride	6.845	49	228582	28.35	ug/L	89
17) Tert Butyl Alcohol	6.856	59	116162	271.55	ug/L	88
18) Allyl Chloride	6.662	41	195664	29.36	ug/L	93
19) Acetonitrile	6.748	41	158665	262.41	ug/L	95
20) trans-1,2-Dichloroethene	7.115	61	243240	28.59	ug/L	93
21) Acrylonitrile	7.201	53	292348	167.91	ug/L	97
22) Methyl Tert Butyl Ether	7.050	73	413078	26.12	ug/L	94
23) Hexane	7.288	57	184963	25.35	ug/L	93
24) 1,1-Dichloroethane	7.644	63	324579	28.28	ug/L	98
25) Vinyl Acetate	7.590	43	1478962	154.86	ug/L	96
26) Di-isopropyl ether	7.525	45	442015	26.05	ug/L	91
27) Chloroprene	7.708	53	205873	11.81	ug/L	90
28) Ethyl tert-butyl ether	7.935	59	424840	24.70	ug/L	99
29) 2,2-Dichloropropane	8.280	77	278382	31.03	ug/L	98
30) cis-1,2-Dichloroethene	8.291	96	201832	28.17	ug/L	88
31) Ethyl Acetate	8.226	43	626436m	144.71	ug/L	
32) 2-Butanone	8.269	43	376007m	158.33	ug/L	
33) Propionitrile	8.442	54	198231	258.20	ug/L	98
34) Methacrylonitrile	8.809	41	160013	33.55	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:38:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.572	128	115971	26.93	ug/L #	70
36) Chloroform	8.593	83	364169	28.43	ug/kg	97
37) Tetrahydrofuran	8.809	42	60688	30.83	ug/L	90
38) 1,1,1-Trichloroethane	8.809	97	328378	30.65	ug/L	98
40) Cyclohexane	8.809	56	268971	27.66	ug/L	93
41) n-Butyl Alcohol	9.651	56	45760	493.10	ug/L	97
42) 1,1-Dichloropropene	8.960	75	251050	28.49	ug/L	89
43) Carbon Tetrachloride	8.949	117	320788	33.31	ug/L	98
45) Benzene	9.197	78	712006	27.48	ug/L	70
46) Isobutyl Alcohol	9.187	43	138498	300.74	ug/L	94
47) 1,2-Dichloroethane	9.273	62	275598	31.13	ug/L	99
48) tert-amyl methyl ether	9.187	73	432149	25.75	ug/L	92
49) Trichloroethene	9.845	95	183854	26.70	ug/L	99
50) Methylcyclohexane	9.996	83	271430	24.91	ug/L	95
51) Methyl Methacrylate	10.093	41	91930	25.52	ug/L	90
52) 1,2-Dichloropropane	10.147	63	183732	28.15	ug/L	91
53) Dibromomethane	10.298	93	134673	27.68	ug/kg	95
54) 1,4-Dioxane	10.222	88	27994	417.12	ug/L	100
55) Bromodichloromethane	10.395	83	263719	27.38	ug/L	99
56) 2-Nitropropane	10.676	41	237518	181.32	ug/L	92
57) 2-Chloroethyl vinyl ether	10.783	63	233274	50.18	ug/L #	26
58) 4-Methyl-2-pentanone	10.924	43	778399	161.28	ug/L	95
59) cis-1,3-Dichloropropene	10.848	75	277231	24.74	ug/L	94
62) Toluene	11.161	91	763321	23.51	ug/L	99
63) Ethyl Methacrylate	11.345	69	157537	19.81	ug/L	98
64) trans-1,3-Dichloropropene	11.420	75	275568	26.95	ug/L	94
65) 1,1,2-Trichloroethane	11.625	83	155503	25.01	ug/L	95
66) Tetrachloroethene	11.722	166	228203	25.54	ug/L	99
67) 2-hexanone	11.776	43	536615	143.01	ug/L	93
68) 1,3-Dichloropropane	11.830	76	319899	27.09	ug/L	94
69) Dibromochloromethane	12.057	129	226247	26.62	ug/L	98
70) 1,2-Dibromoethane	12.240	107	186366	25.42	ug/L	97
71) 1-Chlorohexane	12.521	91	224831	22.20	ug/L	83
72) Chlorobenzene	12.682	112	592204	25.59	ug/L	97
73) 1,1,1,2-Tetrachloroethane	12.747	131	226516	26.43	ug/L	99
74) Ethylbenzene	12.704	91	911621	26.36	ug/L	99
75) m,p-Xylene	12.823	91	1445868	49.22	ug/L	100
76) o-Xylene	13.265	91	702940	23.54	ug/L	98
77) Styrene	13.287	104	545964	22.36	ug/L	96
78) Bromoform	13.589	173	158385	25.53	ug/L	99
80) Isopropylbenzene	13.610	105	878179	25.74	ug/L	99
81) Cyclohexanone	13.869	55	24322	260.70	ug/L #	25
83) Bromobenzene	14.074	156	277565	24.56	ug/L	100
84) 1,1,2,2-Tetrachloroethane	13.988	83	277503	25.32	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.053	53	73830	27.07	ug/L	94
86) 1,2,3-Trichloropropane	14.085	110	74437	24.29	ug/L	92
87) n-Propylbenzene	14.042	91	1102983	23.08	ug/L	99
88) 2-Chlorotoluene	14.225	91	788779	23.34	ug/L	99
89) 4-Chlorotoluene	14.333	91	673405	22.54	ug/L	99
90) 1,3,5-Trimethylbenzene	14.204	105	752183	22.62	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:38:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

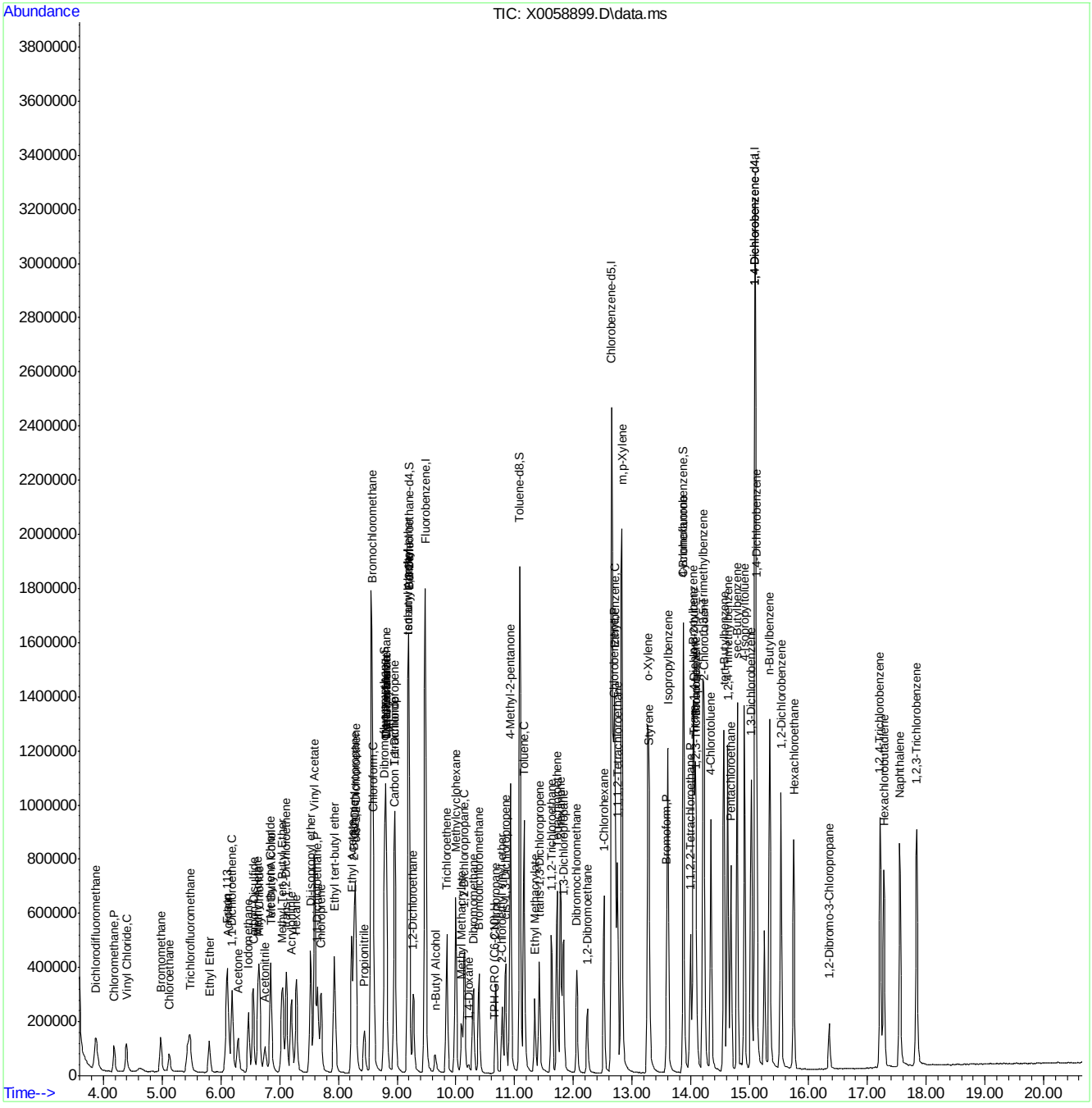
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.679	167	154820	20.30	ug/L	98
92)	sec-Butylbenzene	14.786	105	1015713	23.10	ug/L	100
93)	1,3-Dichlorobenzene	15.024	146	494728	24.20	ug/L	98
94)	4-Isopropyltoluene	14.905	119	833066	24.12	ug/L	99
95)	1,4-Dichlorobenzene	15.110	146	551384	23.72	ug/L	97
96)	tert-Butylbenzene	14.560	91	438623	23.37	ug/L	97
97)	n-Butylbenzene	15.337	91	810121	22.91	ug/L	98
98)	1,2-Dichlorobenzene	15.531	146	513493	24.48	ug/L	99
99)	1,2,4-Trimethylbenzene	14.625	105	788498	22.90	ug/L	100
100)	Hexachloroethane	15.747	119	177275	25.02	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	16.351	75	53790	28.60	ug/L	88
102)	1,2,4-Trichlorobenzene	17.214	180	370764	22.69	ug/L	99
103)	Hexachlorobutadiene	17.279	225	171427	25.82	ug/L	98
104)	Naphthalene	17.549	128	851646	23.99	ug/L	100
105)	1,2,3-Trichlorobenzene	17.840	180	376370	24.87	ug/L	99
107)	TPH-GRO (C6-C10)	10.655	TIC	71243871m	1129.78	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

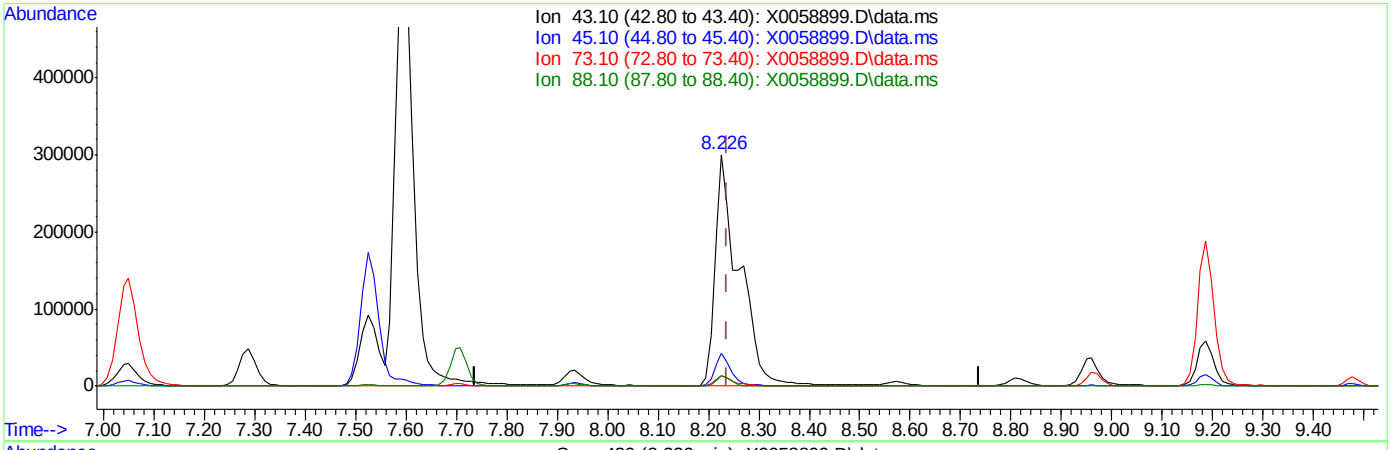
Quant Time: Feb 08 09:38:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

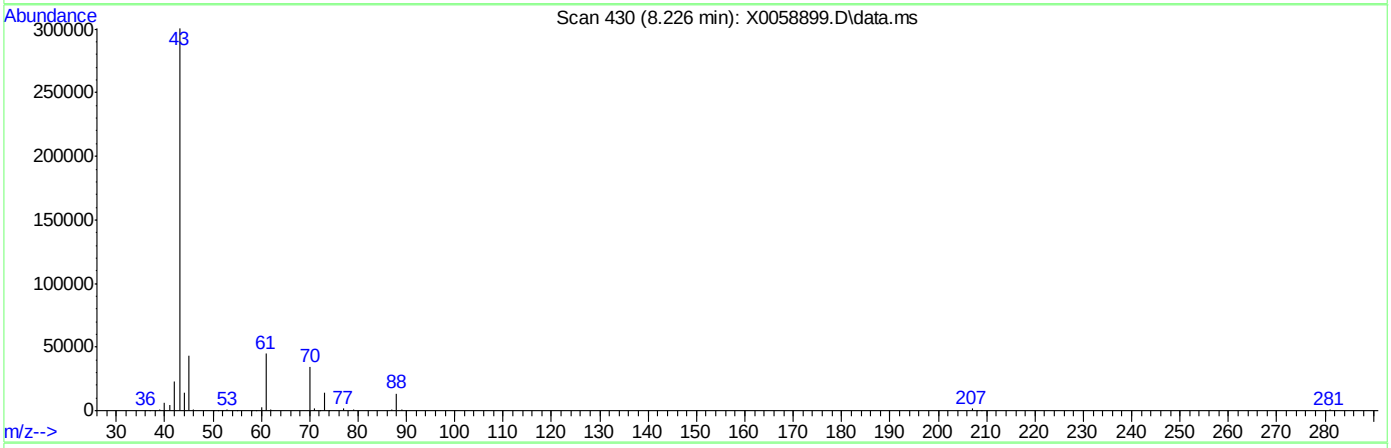


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:12:21 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058899.D\data.ms

(31) Ethyl Acetate

8.226min (-0.011) 224.05ug/L

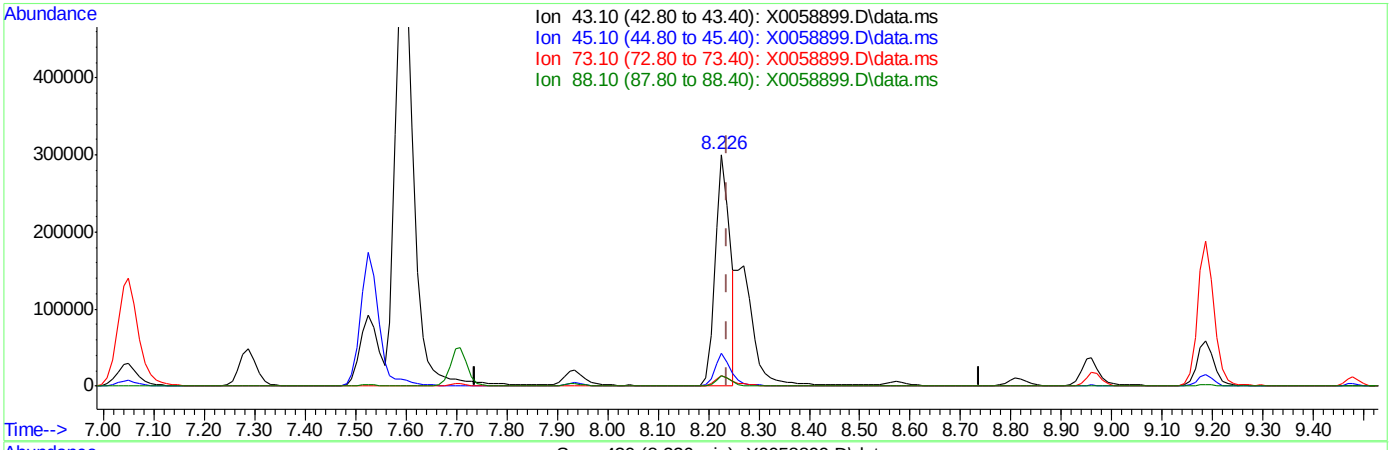
response 999035

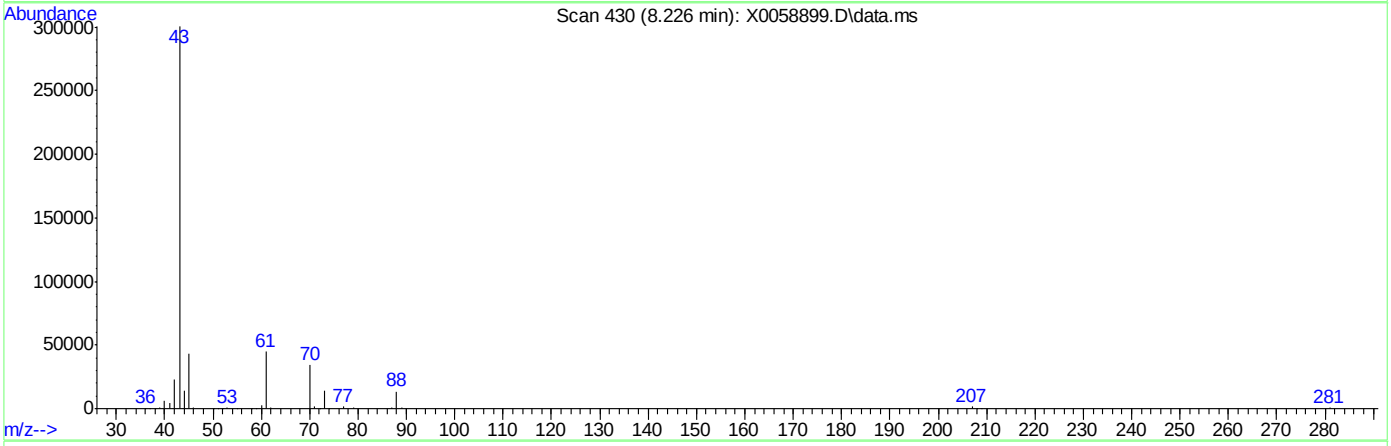
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.41
73.10	5.80	4.78
88.10	5.20	4.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:12:21 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.226min (-0.011) 144.71ug/L m

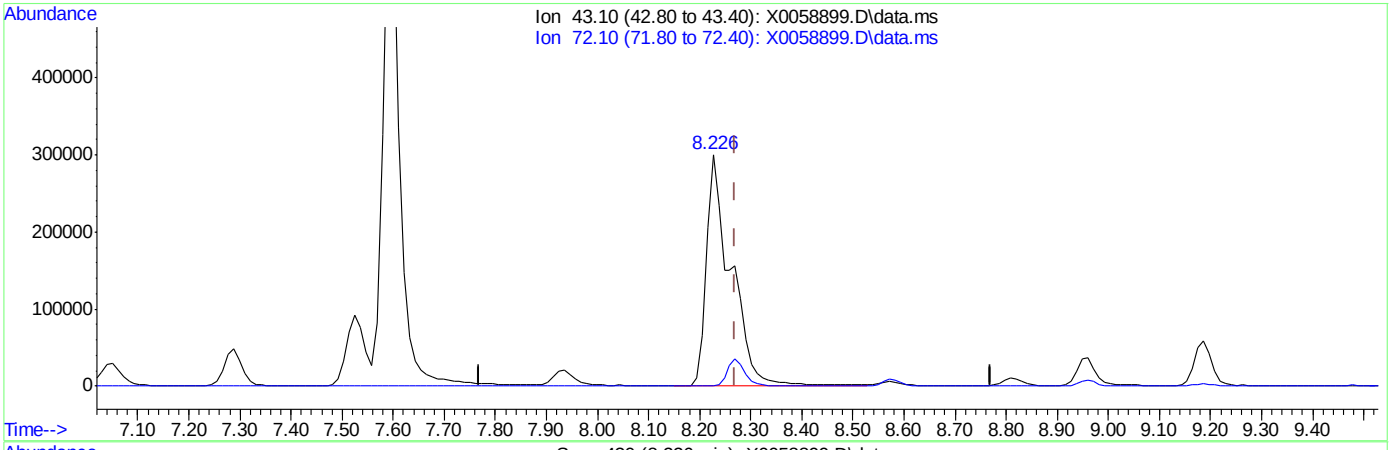
response 626436

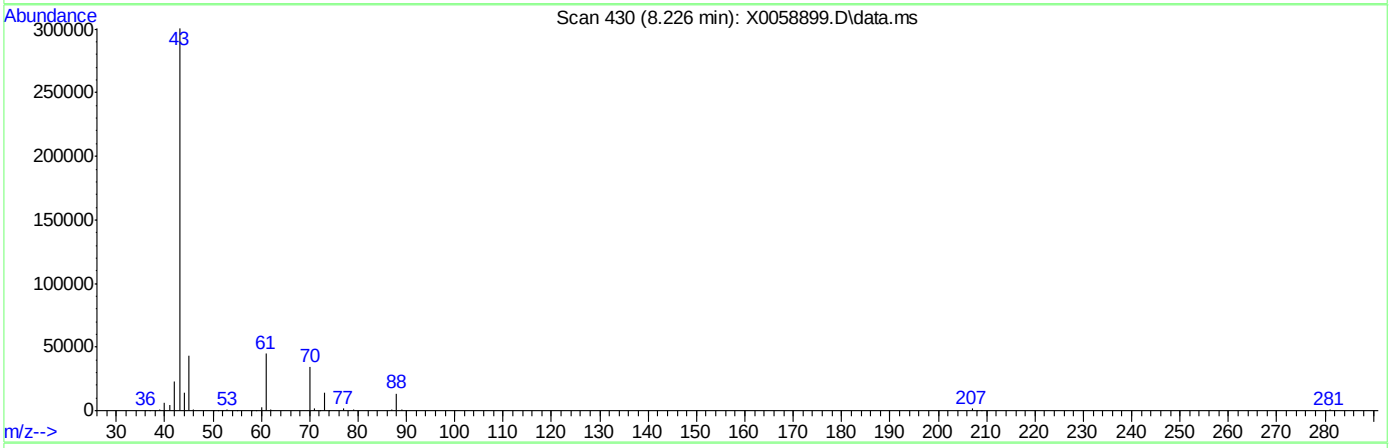
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.37
73.10	5.80	4.77
88.10	5.20	4.49

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:12:21 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058899.D\data.ms

(32) 2-Butanone

8.226min (-0.044) 504.78ug/L

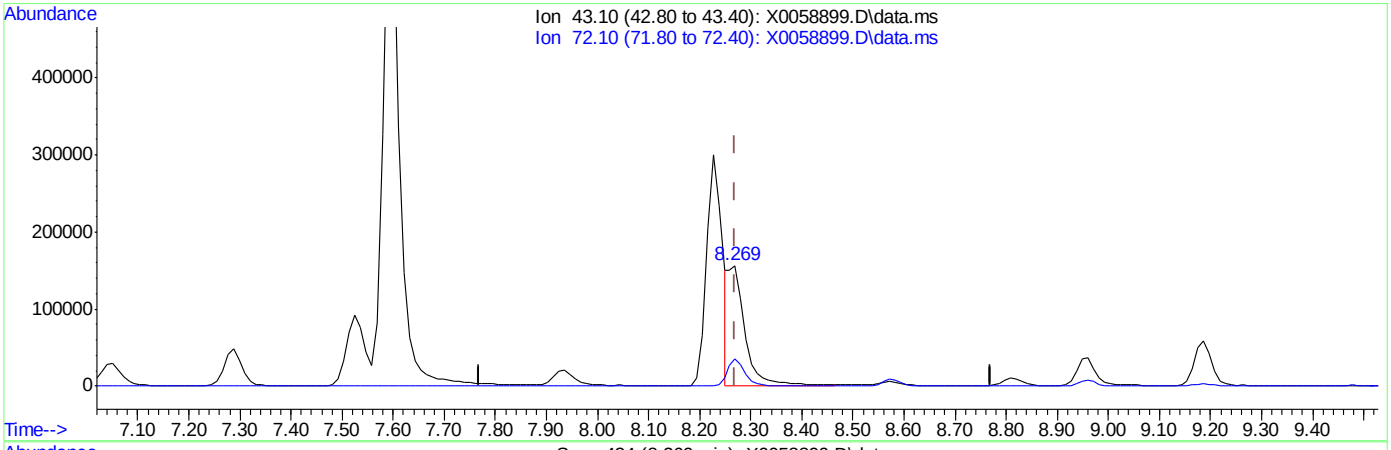
response 999035

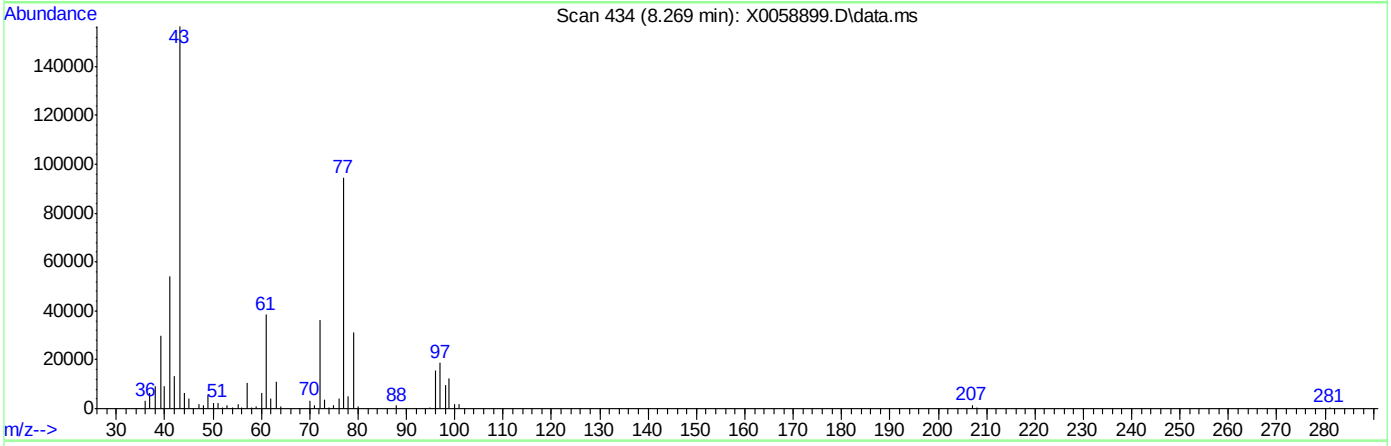
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058899.D
Acq On : 7 Feb 2010 5:01 pm
Operator : jennl
Sample : t46705-1msD
Misc : ms7507,vx438,5.,,,5,,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 08 09:12:21 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058899.D\data.ms

(32) 2-Butanone

8.269min (-0.001) 158.33ug/L m

response 376007

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	23.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/09/10 17:27

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:16 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	581781	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	402563	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	155850	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	155850	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	140112	52.48	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 104.96%			
46) 1,2-Dichloroethane-d4	9.94	65	140726	43.80	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 87.60%			
63) Toluene-d8	11.84	98	520018	55.74	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 111.48%			
84) 4-Bromofluorobenzene	14.58	95	146344	48.65	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 97.30%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	34229	40.12	ug/kg	90
3) Chloromethane	4.58	50	59387	42.05	ug/kg	99
4) Vinyl Chloride	4.81	62	53835	48.81	ug/kg	100
5) Bromomethane	5.47	94	41463	43.52	ug/kg	98
6) Chloroethane	5.64	64	33762	45.79	ug/kg	98
7) Trichlorofluoromethane	6.01	101	79458	44.90	ug/kg	98
9) Ethyl ether	6.43	59	110328	47.07	ug/kg	98
10) Acrolein	6.75	56	56445	780.19	ug/kg	89
11) 1,1-Dichloroethene	6.83	96	52621	45.72	ug/kg	99
12) Freon 113	6.74	101	46561	49.66	ug/kg	96
13) Acetone	6.94	43	115228	213.33	ug/kg	98
14) Iodomethane	7.12	142	118154	50.10	ug/kg	97
15) Methyl acetate	7.32	43	329932	188.58	ug/kg	98
16) Carbon Disulfide	7.20	76	184391	44.78	ug/kg	98
17) Allyl Chloride	7.33	41	191044	49.61	ug/kg	97
18) Acetonitrile	7.42	41	62556	439.74	ug/kg	87
19) Methylene Chloride	7.53	84	89948	48.37	ug/kg	98
20) Tert Butyl Alcohol	7.55	59	69908	347.76	ug/kg	99
21) trans-1,2-Dichloroethene	7.82	96	110778	46.77	ug/kg	97
22) Acrylonitrile	7.90	53	140653	214.09	ug/kg	99
23) Hexane	8.02	57	180591	51.50	ug/kg	97
24) Methyl Tert Butyl Ether	7.75	73	258391	41.18	ug/kg	99
25) 1,1-Dichloroethane	8.37	63	231247	47.30	ug/kg	96
26) Vinyl acetate	8.33	43	1267838	231.40	ug/kg	99
27) Di-isopropyl ether	8.26	45	418318	44.90	ug/kg	99
28) Chloroprene	8.43	53	185476	20.35	ug/kg	97
29) Ethyl tert-butyl ether	8.67	59	331347	42.81	ug/kg	98
30) Ethyl Acetate	8.97	43	525465m	209.19	ug/kg	
31) 2,2-Dichloropropane	9.01	77	112987	47.07	ug/kg	99
32) cis-1,2-Dichloroethene	9.03	96	129613	48.84	ug/kg	97
33) 2-Butanone	9.01	72	45303	181.33	ug/kg	90
34) Propionitrile	9.18	54	98248	408.65	ug/kg	99
35) Bromochloromethane	9.31	128	72710	52.69	ug/kg#	72
36) Methacrylonitrile	9.31	41	608062	678.33	ug/kg#	69

(#) = qualifier out of range (m) = manual integration
Y0037690.D VY2406AP9.M Tue Feb 09 11:36:57 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:16 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	230203	48.50	ug/kg	97
38)	Tetrahydrofuran	9.57	42	36662	48.81	ug/kg	100
39)	1,1,1-Trichloroethane	9.56	97	150317	45.81	ug/kg	97
41)	Cyclohexane	9.57	56	160947	49.67	ug/kg	97
42)	Isobutyl Alcohol	9.70	43	68065	782.36	ug/kg	91
43)	1,1-Dichloropropene	9.72	75	162810	49.35	ug/kg	96
44)	n-Butyl Alcohol	10.38	56	38920	806.63	ug/kg	99
45)	Carbon Tetrachloride	9.71	117	148248	48.17	ug/kg	98
47)	Benzene	9.95	78	510368	48.57	ug/kg	99
48)	1,2-Dichloroethane	10.03	62	160845	43.57	ug/kg	97
49)	tert-amyl methyl ether	9.94	73	295077	42.64	ug/kg	97
50)	Trichloroethene	10.60	95	119503	47.73	ug/kg	95
51)	1-Bromo-2-Chloroethane	11.53	63	143619	41.68	ug/kg	97
52)	Methylcyclohexane	10.76	83	174288	51.41	ug/kg	99
53)	Methyl Methacrylate	10.85	41	97455	41.61	ug/kg	98
54)	1,2-Dichloropropane	10.89	63	128709	46.68	ug/kg	98
55)	Dibromomethane	11.04	93	70069	43.09	ug/kg	94
56)	1,4-Dioxane	10.97	88	10872	774.33	ug/kg	93
57)	Bromodichloromethane	11.14	83	163404	43.89	ug/kg	97
58)	2-Nitropropane	11.42	41	124329	187.27	ug/kg	99
59)	2-Chloroethyl vinyl ether	11.37	63	108786	210.13	ug/kg	97
60)	4-Methyl-2-pentanone	11.68	100	61871	196.99	ug/kg#	87
61)	cis-1,3-Dichloropropene	11.59	75	199998	45.44	ug/kg	99
64)	Toluene	11.91	92	438736	68.13	ug/kg	99
65)	Ethyl Methacrylate	12.08	69	134640	40.70	ug/kg	98
66)	trans-1,3-Dichloropropene	12.15	75	173893	45.75	ug/kg	98
67)	1,1,2-Trichloroethane	12.36	83	79322	41.75	ug/kg	95
68)	Tetrachloroethene	12.46	164	104518	53.28	ug/kg	97
69)	2-hexanone	12.51	43	285110	176.05	ug/kg	97
70)	1,3-Dichloropropane	12.56	76	164130	41.84	ug/kg	98
71)	Dibromochloromethane	12.79	129	122279	43.73	ug/kg	97
72)	1,2-Dibromoethane	12.96	107	94262	42.36	ug/kg	100
73)	1-Chlorohexane	13.25	91	155968	49.21	ug/kg	99
74)	Chlorobenzene	13.42	112	333327	46.44	ug/kg	98
75)	1,1,1,2-Tetrachloroethane	13.47	131	112775	45.34	ug/kg	97
76)	Ethylbenzene	13.44	91	782716	66.03	ug/kg	98
77)	m,p-Xylene	13.55	106	645372	141.34	ug/kg	94
78)	o-Xylene	13.99	106	333556	77.13	ug/kg	96
79)	Styrene	14.00	104	357848	45.63	ug/kg	98
80)	Bromoform	14.30	173	71545	42.48	ug/kg	97
82)	Isopropylbenzene	14.33	105	466589	59.80	ug/kg	100
83)	Cyclohexanone	14.57	55	53100	918.94	ug/kg#	48
85)	Bromobenzene	14.78	156	149934	57.76	ug/kg#	86
86)	1,1,2,2-Tetrachloroethane	14.69	83	95806	42.19	ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	32545	39.39	ug/kg	90
88)	1,2,3-Trichloropropane	14.78	75	79905	37.24	ug/kg#	77
89)	n-Propylbenzene	14.75	91	558048	51.05	ug/kg	96
90)	2-Chlorotoluene	14.93	91	362043	47.75	ug/kg	98
91)	4-Chlorotoluene	15.04	91	315387	46.45	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:16 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

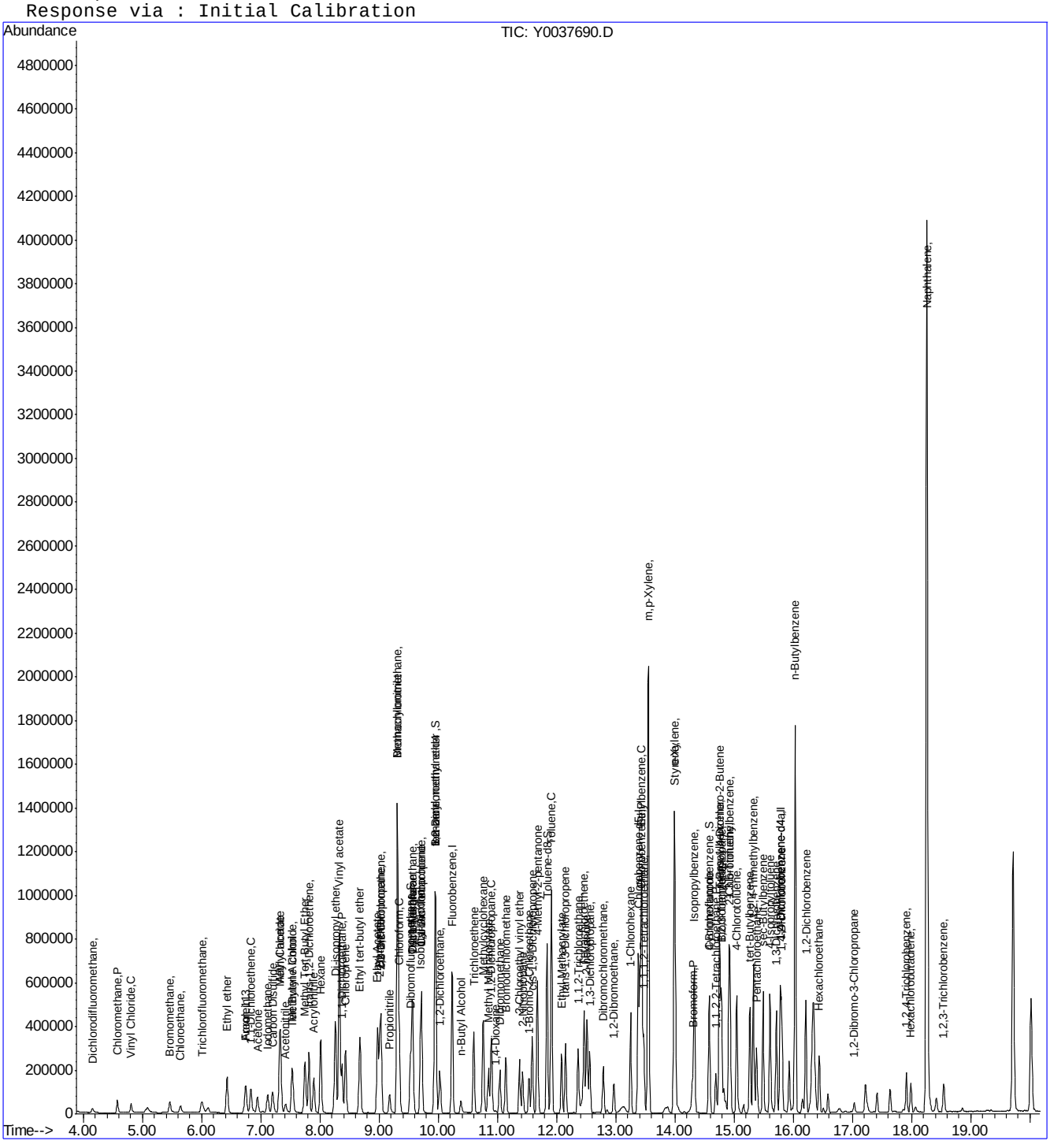
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	368267	51.23	ug/kg	99
93)	Pentachloroethane	15.38	167	62031	46.37	ug/kg	89
94)	sec-Butylbenzene	15.49	105	407103	49.42	ug/kg	98
95)	1,3-Dichlorobenzene	15.71	146	208511	49.23	ug/kg	96
96)	4-Isopropyltoluene	15.61	119	333622	49.60	ug/kg	97
97)	1,4-Dichlorobenzene	15.81	146	215822	49.69	ug/kg	98
98)	tert-Butylbenzene	15.27	91	167132	45.99	ug/kg	92
99)	n-Butylbenzene	16.03	91	418206	64.27	ug/kg	89
100)	1,2-Dichlorobenzene	16.21	146	231630	60.82	ug/kg	95
101)	1,2,4-Trimethylbenzene	15.32	105	398950	54.26	ug/kg	96
102)	Hexachloroethane	16.44	119	57132	48.29	ug/kg	90
103)	1,2-Dibromo-3-Chloropropan	17.03	75	11727	36.71	ug/kg	93
104)	1,2,4-Trichlorobenzene	17.91	180	68420	34.55	ug/kg	95
105)	Hexachlorobutadiene	17.99	225	32635	33.85	ug/kg	94
106)	Naphthalene	18.26	128	3930816	1028.30	ug/kg	99
107)	1,2,3-Trichlorobenzene	18.54	180	54158	33.14	ug/kg	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:56 2010 Quant Results File: VY2406AP9.RES

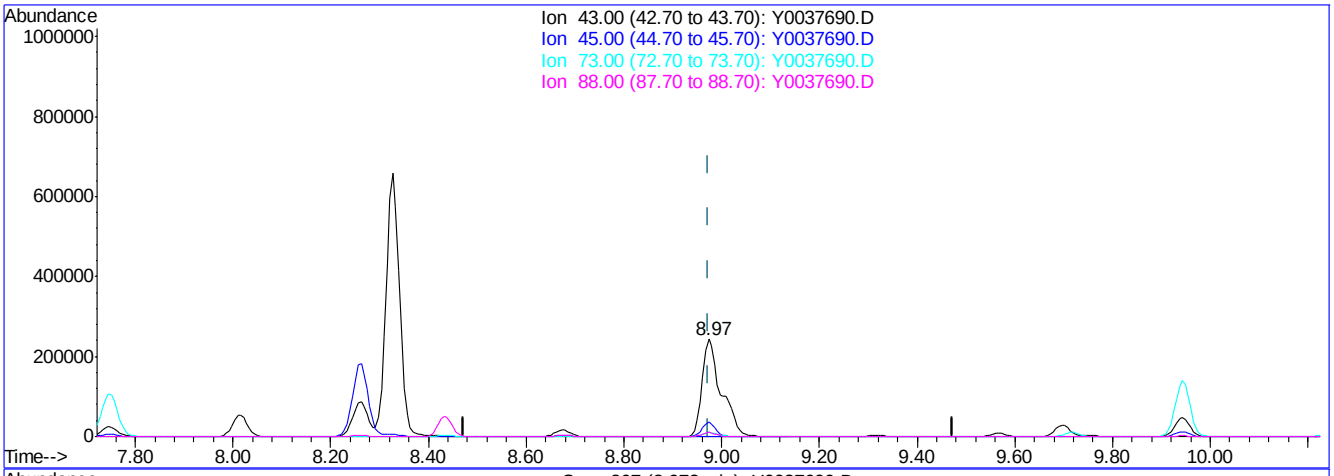
Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

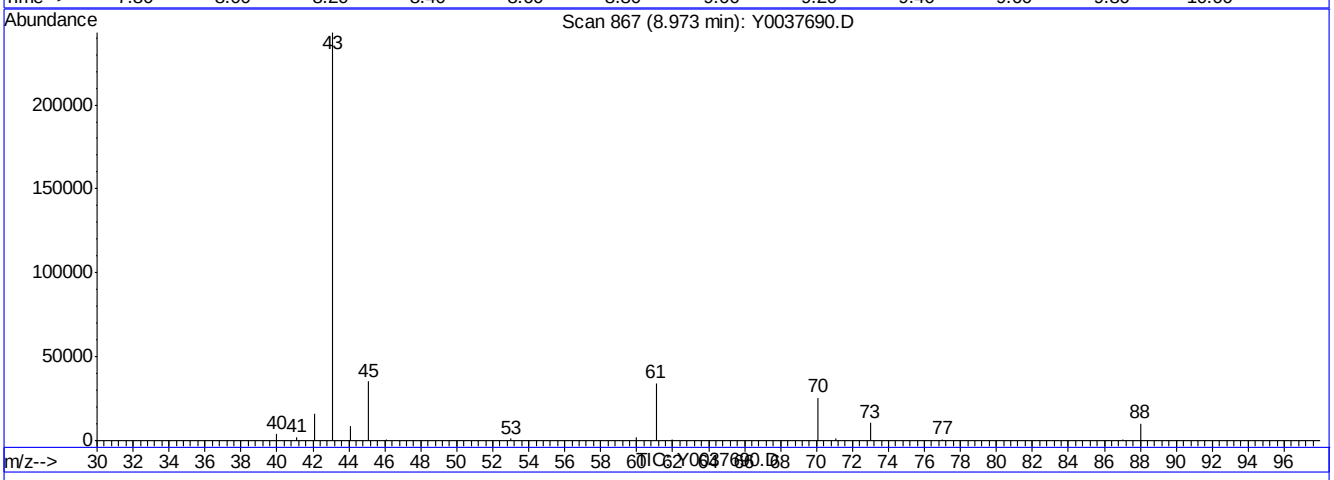


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 8:58 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 262.15ug/kg

response 658503

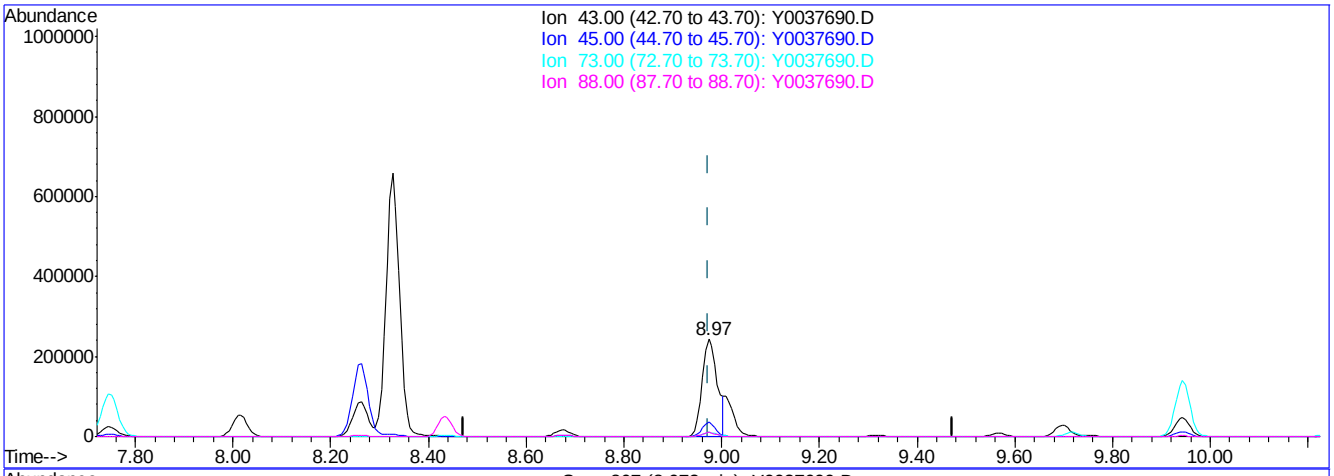
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.49
73.00	4.40	4.37
88.00	3.80	4.19

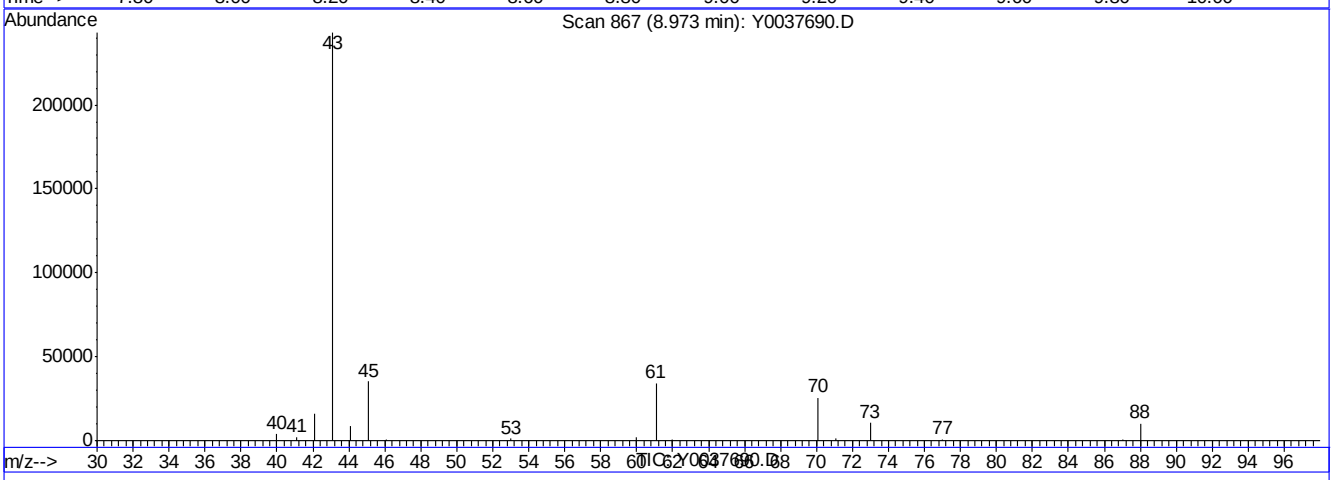
Y0037690.D VY2406AP9.M Tue Feb 09 10:56:45 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037690.D Vial: 15
Acq On : 8 Feb 2010 5:02 pm Operator: jennl
Sample : t46705-7ms,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 209.19ug/kg m

response 525465

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.49
73.00	4.40	4.37
88.00	3.80	4.19

Y0037690.D VY2406AP9.M Tue Feb 09 10:56:50 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/09/10 17:27

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	574457	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	398623	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	144928	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	144928	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	139445	52.89	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 105.78%			
46) 1,2-Dichloroethane-d4	9.94	65	140857	44.40	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 88.80%			
63) Toluene-d8	11.84	98	515022	55.75	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 111.50%			
84) 4-Bromofluorobenzene	14.58	95	141429	50.56	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 101.12%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	30869	36.64	ug/kg	97
3) Chloromethane	4.58	50	53246	38.18	ug/kg	94
4) Vinyl Chloride	4.81	62	45746	42.01	ug/kg	92
5) Bromomethane	5.47	94	38316	40.73	ug/kg	99
6) Chloroethane	5.65	64	31519	43.29	ug/kg	98
7) Trichlorofluoromethane	6.01	101	69827	39.96	ug/kg	94
9) Ethyl ether	6.43	59	112033	48.41	ug/kg	96
10) Acrolein	6.75	56	58121	813.60	ug/kg	89
11) 1,1-Dichloroethene	6.83	96	46421	40.85	ug/kg	97
12) Freon 113	6.75	101	41413	44.73	ug/kg	94
13) Acetone	6.94	43	114929	215.62	ug/kg	95
14) Iodomethane	7.12	142	112072	48.13	ug/kg	95
15) Methyl acetate	7.32	43	342848	198.46	ug/kg	98
16) Carbon Disulfide	7.20	76	165700	40.76	ug/kg	98
17) Allyl Chloride	7.33	41	172759	45.44	ug/kg	98
18) Acetonitrile	7.42	41	62702	446.41	ug/kg	85
19) Methylene Chloride	7.53	84	87792	47.78	ug/kg	98
20) Tert Butyl Alcohol	7.54	59	71997	362.72	ug/kg	91
21) trans-1,2-Dichloroethene	7.82	96	101127	43.24	ug/kg	95
22) Acrylonitrile	7.89	53	145769	224.70	ug/kg	99
23) Hexane	8.02	57	157159	45.39	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	264371	42.67	ug/kg	98
25) 1,1-Dichloroethane	8.37	63	212187	43.95	ug/kg	99
26) Vinyl acetate	8.33	43	1282080	236.98	ug/kg	99
27) Di-isopropyl ether	8.26	45	396280	43.07	ug/kg	98
28) Chloroprene	8.43	53	167242	18.58	ug/kg	100
29) Ethyl tert-butyl ether	8.67	59	327243	42.82	ug/kg	98
30) Ethyl Acetate	8.97	43	516422m	208.21	ug/kg	
31) 2,2-Dichloropropane	9.01	77	104298	44.01	ug/kg	99
32) cis-1,2-Dichloroethene	9.03	96	122253	46.66	ug/kg	96
33) 2-Butanone	9.01	72	47516	192.61	ug/kg#	87
34) Propionitrile	9.18	54	100735	424.33	ug/kg	98
35) Bromochloromethane	9.31	128	71602	52.55	ug/kg#	73
36) Methacrylonitrile	9.31	41	632072	714.13	ug/kg#	68

(#) = qualifier out of range (m) = manual integration
Y0037691.D VY2406AP9.M Tue Feb 09 11:36:58 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	217355	46.38	ug/kg	99
38)	Tetrahydrofuran	9.57	42	32267	43.51	ug/kg	97
39)	1,1,1-Trichloroethane	9.56	97	137266	42.37	ug/kg	94
41)	Cyclohexane	9.57	56	142692	44.60	ug/kg	98
42)	Isobutyl Alcohol	9.70	43	68584	798.38	ug/kg	95
43)	1,1-Dichloropropene	9.72	75	143583	44.08	ug/kg	95
44)	n-Butyl Alcohol	10.38	56	39672	832.70	ug/kg	97
45)	Carbon Tetrachloride	9.71	117	133292	43.86	ug/kg	98
47)	Benzene	9.95	78	471894	45.48	ug/kg	100
48)	1,2-Dichloroethane	10.03	62	160012	43.89	ug/kg	97
49)	tert-amyl methyl ether	9.94	73	296507	43.39	ug/kg	97
50)	Trichloroethene	10.60	95	108618	43.94	ug/kg	94
51)	1-Bromo-2-Chloroethane	11.53	63	143540	42.19	ug/kg	99
52)	Methylcyclohexane	10.76	83	155120	46.34	ug/kg	98
53)	Methyl Methacrylate	10.85	41	100819	43.60	ug/kg	97
54)	1,2-Dichloropropane	10.89	63	123204	45.25	ug/kg	97
55)	Dibromomethane	11.04	93	70064	43.64	ug/kg	93
56)	1,4-Dioxane	10.96	88	10273	745.36	ug/kg	95
57)	Bromodichloromethane	11.14	83	158982	43.24	ug/kg	97
58)	2-Nitropropane	11.42	41	129258	197.17	ug/kg	95
59)	2-Chloroethyl vinyl ether	11.37	63	119872	234.49	ug/kg	95
60)	4-Methyl-2-pentanone	11.68	100	63867	205.93	ug/kg#	85
61)	cis-1,3-Dichloropropene	11.59	75	193807	44.59	ug/kg	96
64)	Toluene	11.91	92	409019	64.14	ug/kg	99
65)	Ethyl Methacrylate	12.08	69	138451	42.27	ug/kg	98
66)	trans-1,3-Dichloropropene	12.15	75	169467	45.02	ug/kg	98
67)	1,1,2-Trichloroethane	12.36	83	78166	41.55	ug/kg	96
68)	Tetrachloroethene	12.46	164	96987	49.93	ug/kg	95
69)	2-hexanone	12.52	43	297898	185.76	ug/kg	98
70)	1,3-Dichloropropane	12.56	76	160659	41.36	ug/kg	99
71)	Dibromochloromethane	12.79	129	120107	43.38	ug/kg	97
72)	1,2-Dibromoethane	12.97	107	95033	43.13	ug/kg	98
73)	1-Chlorohexane	13.25	91	137604	43.85	ug/kg	96
74)	Chlorobenzene	13.41	112	313709	44.14	ug/kg	97
75)	1,1,1,2-Tetrachloroethane	13.47	131	106480	43.24	ug/kg	96
76)	Ethylbenzene	13.44	91	708855	60.39	ug/kg	95
77)	m,p-Xylene	13.55	106	594413	131.47	ug/kg	96
78)	o-Xylene	13.99	106	312197	72.90	ug/kg	96
79)	Styrene	14.00	104	331758	42.72	ug/kg	99
80)	Bromoform	14.30	173	69425	41.63	ug/kg	99
82)	Isopropylbenzene	14.33	105	418628	57.69	ug/kg	100
83)	Cyclohexanone	14.58	55	55446	999.88	ug/kg#	50
85)	Bromobenzene	14.78	156	144148	59.72	ug/kg#	83
86)	1,1,2,2-Tetrachloroethane	14.69	83	91523	43.34	ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	31577	41.10	ug/kg	94
88)	1,2,3-Trichloropropane	14.79	75	77874	39.03	ug/kg	98
89)	n-Propylbenzene	14.75	91	494259	48.62	ug/kg	98
90)	2-Chlorotoluene	14.93	91	323671	45.91	ug/kg	98
91)	4-Chlorotoluene	15.04	91	283649	44.92	ug/kg	94

(#) = qualifier out of range (m) = manual integration
Y0037691.D VY2406AP9.M Tue Feb 09 11:36:59 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 09 08:58:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

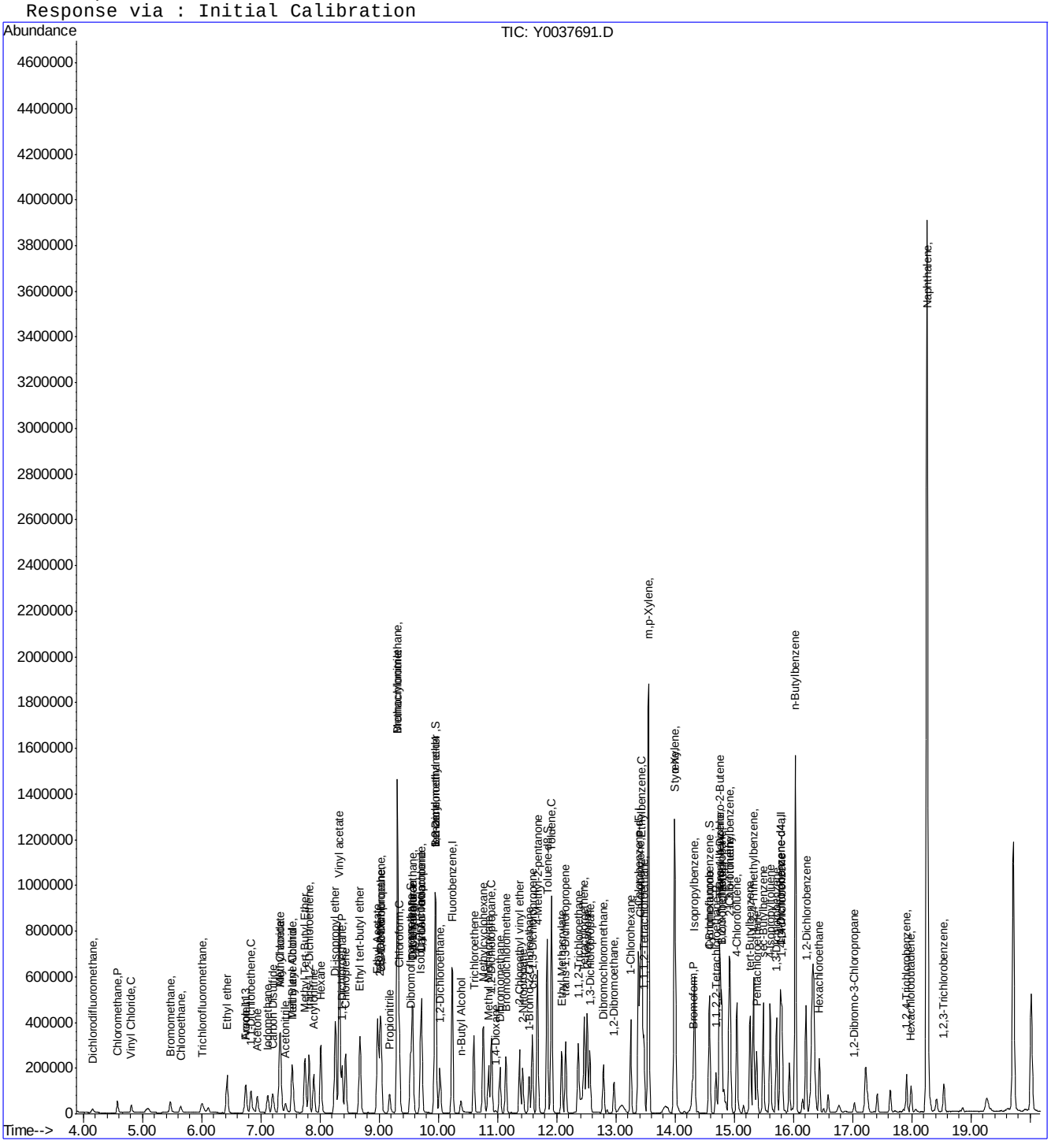
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	324397	48.53	ug/kg	98
93)	Pentachloroethane	15.38	167	57572	46.28	ug/kg	96
94)	sec-Butylbenzene	15.49	105	353779	46.19	ug/kg	100
95)	1,3-Dichlorobenzene	15.71	146	187933	47.72	ug/kg	97
96)	4-Isopropyltoluene	15.61	119	288898	46.19	ug/kg	97
97)	1,4-Dichlorobenzene	15.81	146	192500	47.66	ug/kg	98
98)	tert-Butylbenzene	15.27	91	145664	43.10	ug/kg	94
99)	n-Butylbenzene	16.03	91	361642	59.77	ug/kg	88
100)	1,2-Dichlorobenzene	16.21	146	208107	58.77	ug/kg	96
101)	1,2,4-Trimethylbenzene	15.32	105	345552	50.54	ug/kg	96
102)	Hexachloroethane	16.44	119	52305	47.55	ug/kg	95
103)	1,2-Dibromo-3-Chloropropan	17.03	75	10810	36.39	ug/kg	94
104)	1,2,4-Trichlorobenzene	17.91	180	62110	33.73	ug/kg	98
105)	Hexachlorobutadiene	17.99	225	29783	33.22	ug/kg	91
106)	Naphthalene	18.26	128	3774374	1061.79	ug/kg	99
107)	1,2,3-Trichlorobenzene	18.54	180	51378	33.80	ug/kg	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.46,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:57 2010 Quant Results File: VY2406AP9.RES

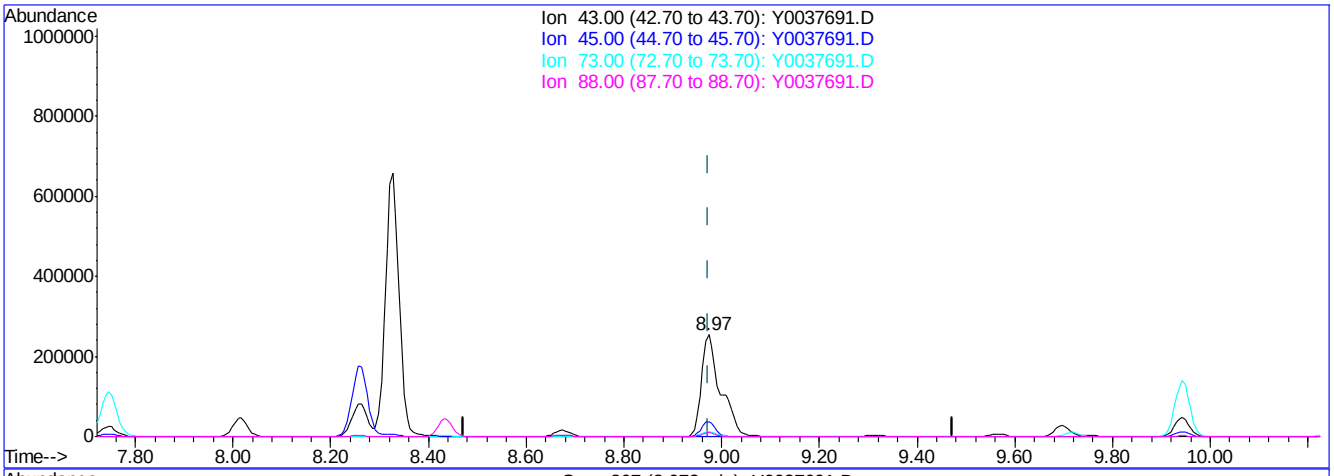
Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

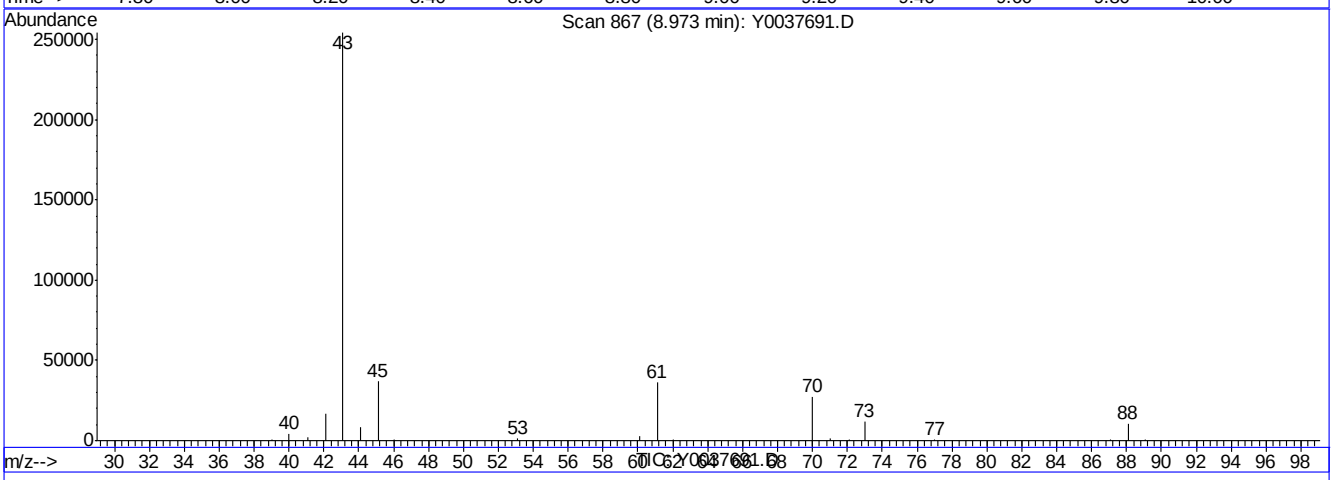


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 8:58 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 276.07ug/kg

response 684724

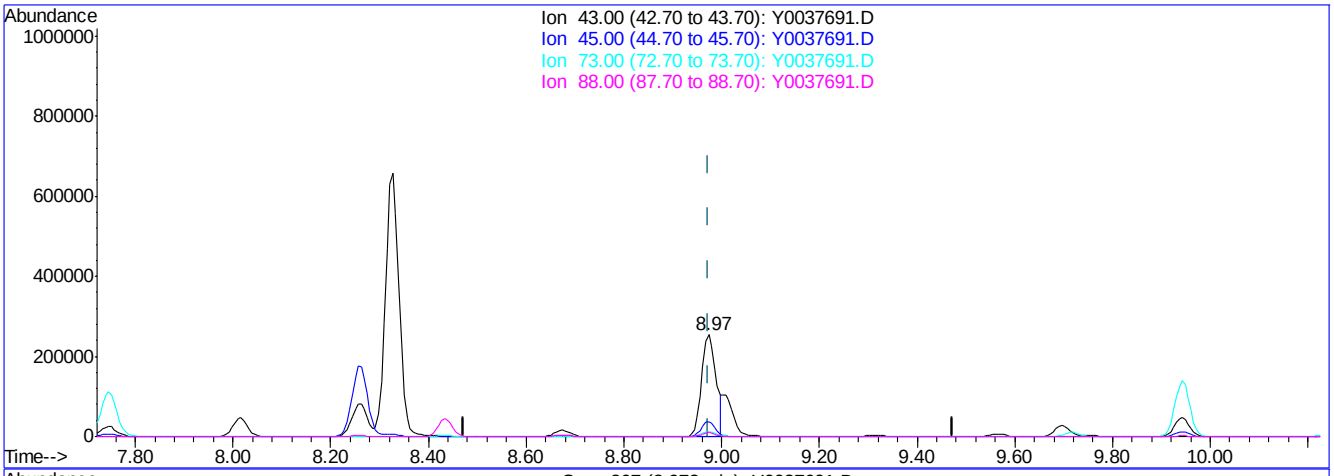
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.48
73.00	4.40	4.56
88.00	3.80	4.09

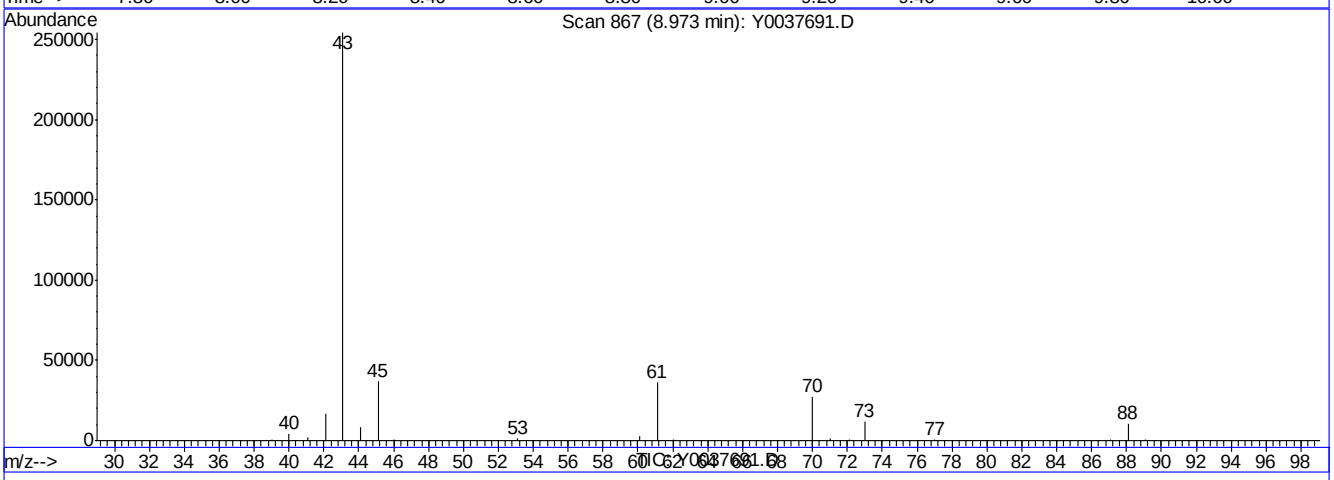
Y0037691.D VY2406AP9.M Tue Feb 09 10:57:02 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037691.D Vial: 16
Acq On : 8 Feb 2010 5:32 pm Operator: jennl
Sample : t46705-7msd,50x Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,100,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:57 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 208.21ug/kg m

response 516422

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.48
73.00	4.40	4.56
88.00	3.80	4.09

Y0037691.D VY2406AP9.M Tue Feb 09 10:57:09 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:23 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	9.478	96	2009264	50.00 ug/L	-0.01
60) Chlorobenzene-d5	12.661	117	1712874	50.00 ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	1086286	50.00 ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	1086286	50.00 ug/L	0.00
System Monitoring Compounds					
39) Dibromofluoromethane	8.788	113	479837	49.19 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.38%		
44) 1,2-Dichloroethane-d4	9.198	65	502845	46.33 ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 92.66%		
61) Toluene-d8	11.097	98	1535116	54.99 ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 109.98%		
82) 4-Bromofluorobenzene	13.880	95	692181	52.04 ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 104.08%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.857	85	308170	21.54 ug/L	97
3) Chloromethane	4.180	50	154678	20.46 ug/L	97
4) Vinyl Chloride	4.396	62	171752	24.42 ug/L	96
5) Bromomethane	4.968	94	120051	19.73 ug/L	100
6) Chloroethane	5.119	64	89579	23.17 ug/L	98
7) Trichlorofluoromethane	5.464	101	325309	20.48 ug/L	97
8) Ethyl Ether	5.799	59	93575	26.27 ug/L	99
9) Acrolein	6.112	56	123926	551.69 ug/L	100
10) 1,1-Dichloroethene	6.187	61	285267	26.62 ug/L	96
11) Freon 113	6.101	101	224505	25.12 ug/L	98
12) Acetone	6.295	43	232299	128.96 ug/L	100
13) Iodomethane	6.468	142	384613	27.23 ug/L	97
14) Methyl Acetate	6.630	43	513844	115.66 ug/L	100
15) Carbon Disulfide	6.543	76	704687	28.01 ug/L	97
16) Methylene Chloride	6.845	49	242810	23.13 ug/L	97
17) Tert Butyl Alcohol	6.856	59	121576	256.79 ug/L #	57
18) Allyl Chloride	6.662	41	254248	25.99 ug/L	97
19) Acetonitrile	6.748	41	166314	240.39 ug/L	95
20) trans-1,2-Dichloroethene	7.115	61	277988	26.86 ug/L	99
21) Acrylonitrile	7.201	53	276642	145.29 ug/L	97
22) Methyl Tert Butyl Ether	7.050	73	484534	26.61 ug/L	98
23) Hexane	7.288	57	178567	22.25 ug/L	98
24) 1,1-Dichloroethane	7.655	63	354730	24.91 ug/L	99
25) Vinyl Acetate	7.590	43	1505464	130.34 ug/L	99
26) Di-isopropyl ether	7.525	45	510977	25.27 ug/L	98
27) Chloroprene	7.709	53	273107	8.57 ug/L	98
28) Ethyl tert-butyl ether	7.935	59	500904	24.63 ug/L	98
29) 2,2-Dichloropropane	8.280	77	294432	24.05 ug/L	98
30) cis-1,2-Dichloroethene	8.302	96	227347	28.73 ug/L	91
31) Ethyl Acetate	8.226	43	590874m	119.72 ug/L	
32) 2-Butanone	8.270	43	367832m	138.62 ug/L	
33) Propionitrile	8.442	54	213886	262.03 ug/L	98
34) Methacrylonitrile	8.820	41	302725	48.32 ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:23 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Bromochloromethane	8.583	128	126061	25.15 ug/L #	88
36) Chloroform	8.604	83	387114	24.45 ug/kg	98
37) Tetrahydrofuran	8.820	42	119651	48.58 ug/L	93
38) 1,1,1-Trichloroethane	8.809	97	355691	25.23 ug/L	98
40) Cyclohexane	8.820	56	562797	50.28 ug/L	97
41) n-Butyl Alcohol	9.651	56	53011	567.63 ug/L	93
42) 1,1-Dichloropropene	8.971	75	283723	27.32 ug/L	94
43) Carbon Tetrachloride	8.960	117	340476	25.12 ug/L	99
45) Benzene	9.198	78	9613763	332.19 ug/L	80
46) Isobutyl Alcohol	9.057	43	65334	115.37 ug/L	68
47) 1,2-Dichloroethane	9.284	62	280615	23.77 ug/L	99
48) tert-amyl methyl ether	9.187	73	625407	31.38 ug/L	85
49) Trichloroethene	9.845	95	242933	31.41 ug/L	99
50) Methylcyclohexane	9.996	83	1298394	99.66 ug/L	98
51) Methyl Methacrylate	10.104	41	125996	25.50 ug/L	90
52) 1,2-Dichloropropane	10.147	63	199441	26.23 ug/L	99
53) Dibromomethane	10.298	93	142395	25.27 ug/kg	98
54) 1,4-Dioxane	10.223	88	30100	490.71 ug/L	98
55) Bromodichloromethane	10.395	83	311586	26.46 ug/L	95
56) 2-Nitropropane	10.687	41	287296	152.87 ug/L	91
57) 2-Chloroethyl vinyl ether	10.794	63	251547	54.00 ug/L #	23
58) 4-Methyl-2-pentanone	10.935	43	816174	135.10 ug/L	97
59) cis-1,3-Dichloropropene	10.848	75	316679	24.23 ug/L	99
62) Toluene	11.161	91	859351	26.52 ug/L	99
63) Ethyl Methacrylate	11.345	69	366749	39.31 ug/L	99
64) trans-1,3-Dichloropropene	11.420	75	290008	25.52 ug/L	98
65) 1,1,2-Trichloroethane	11.636	83	156969	24.15 ug/L	97
66) Tetrachloroethene	11.722	166	267588	28.43 ug/L	99
67) 2-hexanone	11.787	43	550195	130.12 ug/L	97
68) 1,3-Dichloropropane	11.830	76	320871	25.49 ug/L	91
69) Dibromochloromethane	12.068	129	241038	25.14 ug/L	99
70) 1,2-Dibromoethane	12.240	107	210355	27.75 ug/L	98
71) 1-Chlorohexane	12.521	91	257629	24.71 ug/L	100
72) Chlorobenzene	12.693	112	647260	25.29 ug/L	96
73) 1,1,1,2-Tetrachloroethane	12.758	131	251570	24.98 ug/L	99
74) Ethylbenzene	12.715	91	1402946	37.10 ug/L	98
75) m,p-Xylene	12.823	91	1580149	49.80 ug/L	100
76) o-Xylene	13.265	91	829920	26.08 ug/L	99
77) Styrene	13.287	104	625879	24.36 ug/L	97
78) Bromoform	13.589	173	168221	26.11 ug/L	98
80) Isopropylbenzene	13.611	105	1547024	43.63 ug/L	98
81) Cyclohexanone	13.880	55	77843	712.45 ug/L #	69
83) Bromobenzene	14.085	156	308833	26.25 ug/L	97
84) 1,1,2,2-Tetrachloroethane	13.999	83	337247	30.70 ug/L	95
85) Trans-1,4-Dichloro-2-b...	14.064	53	68524	22.68 ug/L #	79
86) 1,2,3-Trichloropropane	14.096	110	84439	25.74 ug/L	86
87) n-Propylbenzene	14.042	91	1835350	37.45 ug/L	99
88) 2-Chlorotoluene	14.226	91	843311	24.16 ug/L	99
89) 4-Chlorotoluene	14.344	91	749473	24.31 ug/L	97
90) 1,3,5-Trimethylbenzene	14.204	105	819147	24.04 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:23 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

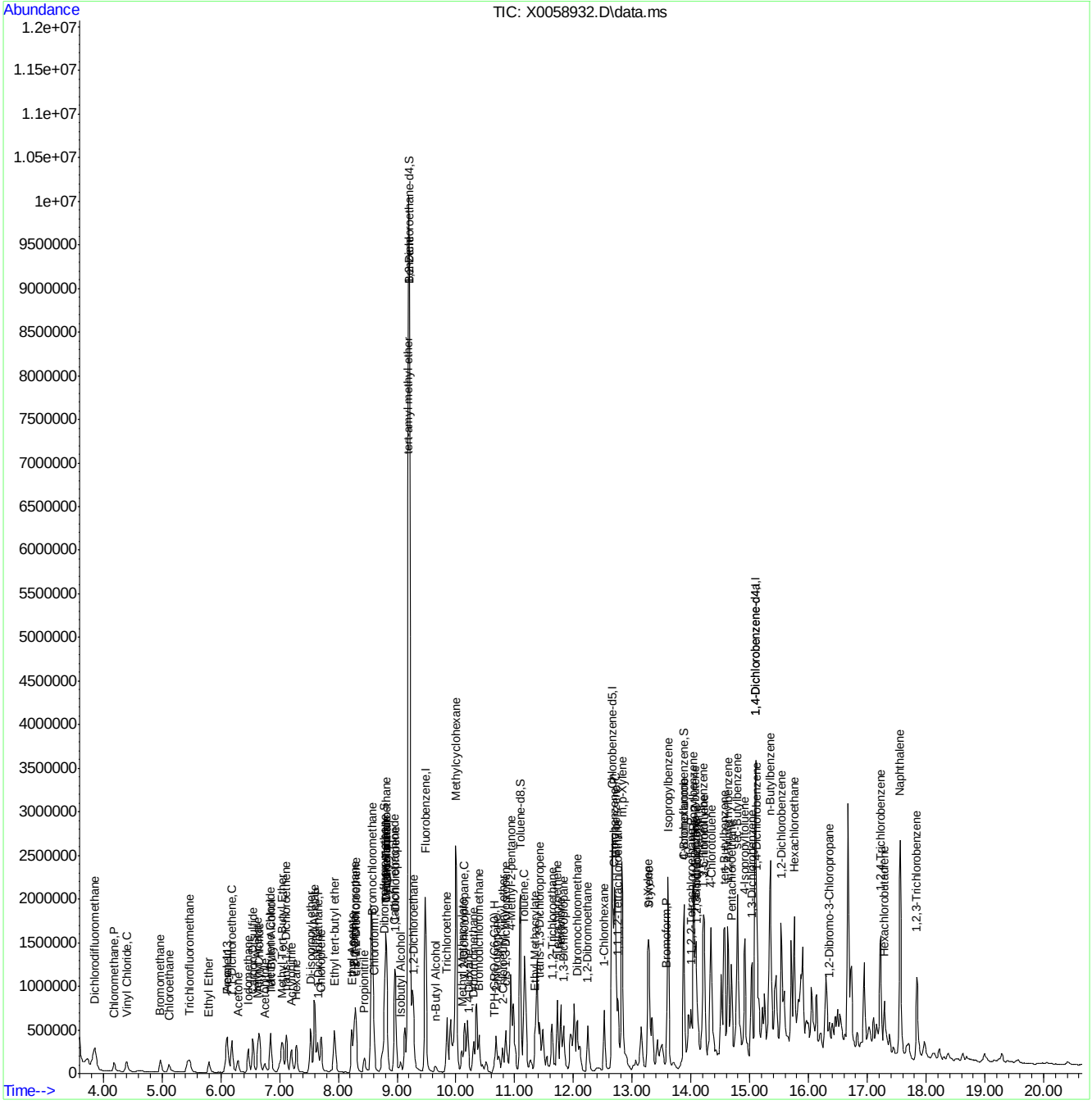
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91)	Pentachloroethane	14.690	167	198034	23.43 ug/L	98
92)	sec-Butylbenzene	14.787	105	1195728	26.22 ug/L	99
93)	1,3-Dichlorobenzene	15.035	146	555444	25.48 ug/L	97
94)	4-Isopropyltoluene	14.916	119	817398	22.38 ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	598282	23.61 ug/L	98
96)	tert-Butylbenzene	14.560	91	480854	24.44 ug/L	97
97)	n-Butylbenzene	15.348	91	844977	22.77 ug/L	98
98)	1,2-Dichlorobenzene	15.531	146	574291	25.45 ug/L	99
99)	1,2,4-Trimethylbenzene	14.625	105	857170	24.01 ug/L	99
100)	Hexachloroethane	15.758	119	180166	20.90 ug/L #	81
101)	1,2-Dibromo-3-Chloropr...	16.351	75	57495	27.38 ug/L	93
102)	1,2,4-Trichlorobenzene	17.225	180	425563	23.88 ug/L	98
103)	Hexachlorobutadiene	17.290	225	127549	16.31 ug/L	98
104)	Naphthalene	17.560	128	2549258	61.63 ug/L	100
105)	1,2,3-Trichlorobenzene	17.840	180	414885	23.77 ug/L	99
107)	TPH-GRO (C6-C10)	10.655	TIC	104730671m	2081.94 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:23 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration



ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On    :  8 Feb 2010   7:24 pm
Operator  : jennl
Sample    : t47048-12ms
Misc      : ms7509,vx439,5.,,,5,,water
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Feb 09 10:29:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration
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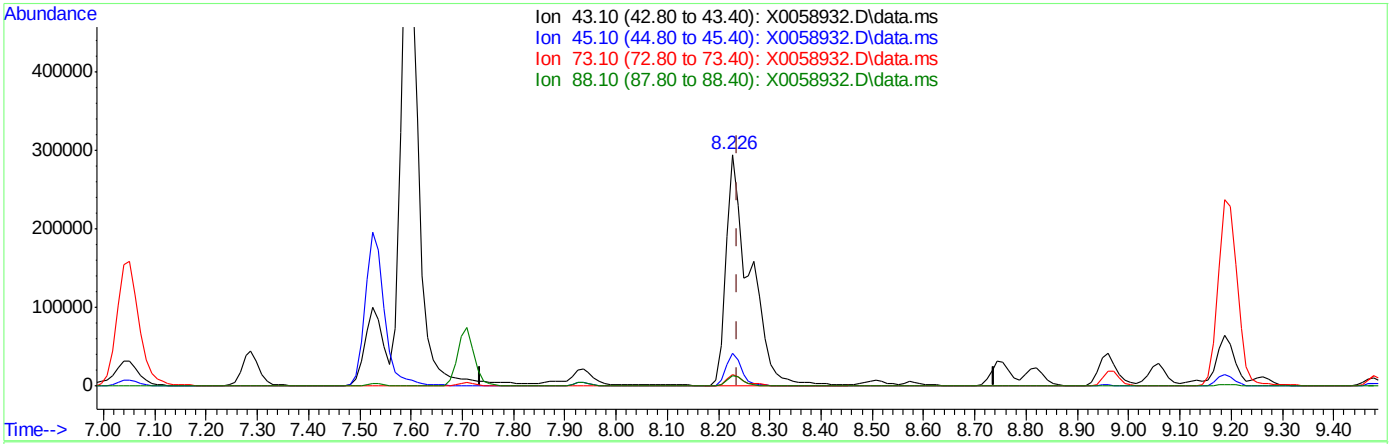
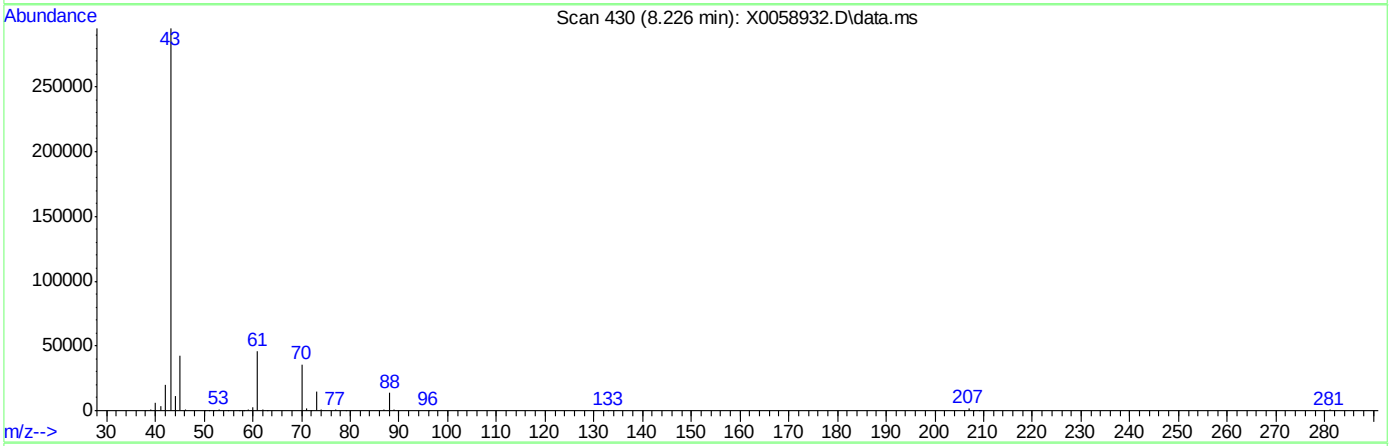




TIC: X0058932.D\data.ms

(31) Ethyl Acetate

8.226min (-0.011) 188.15ug/L

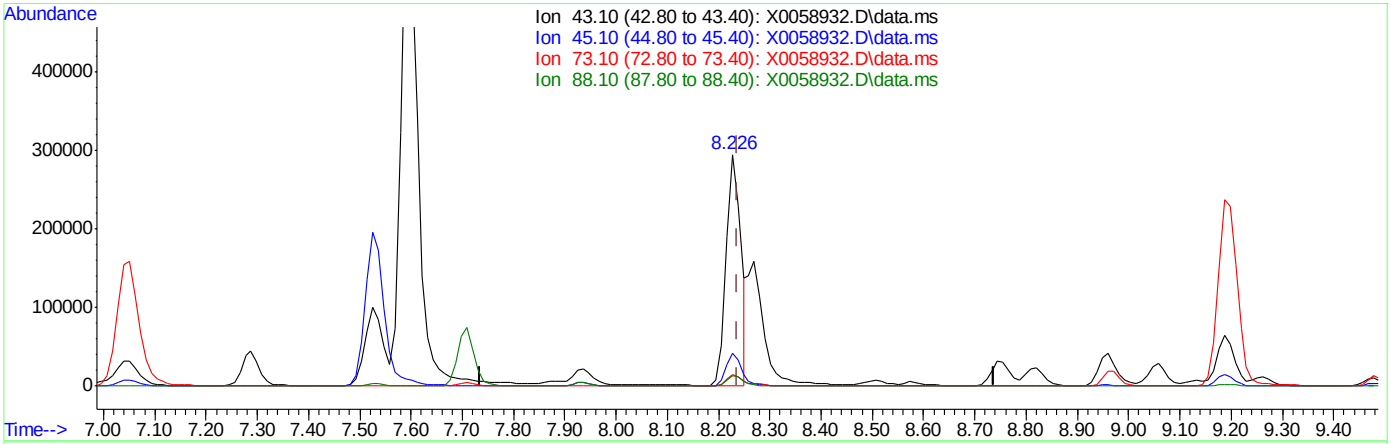
response 950798

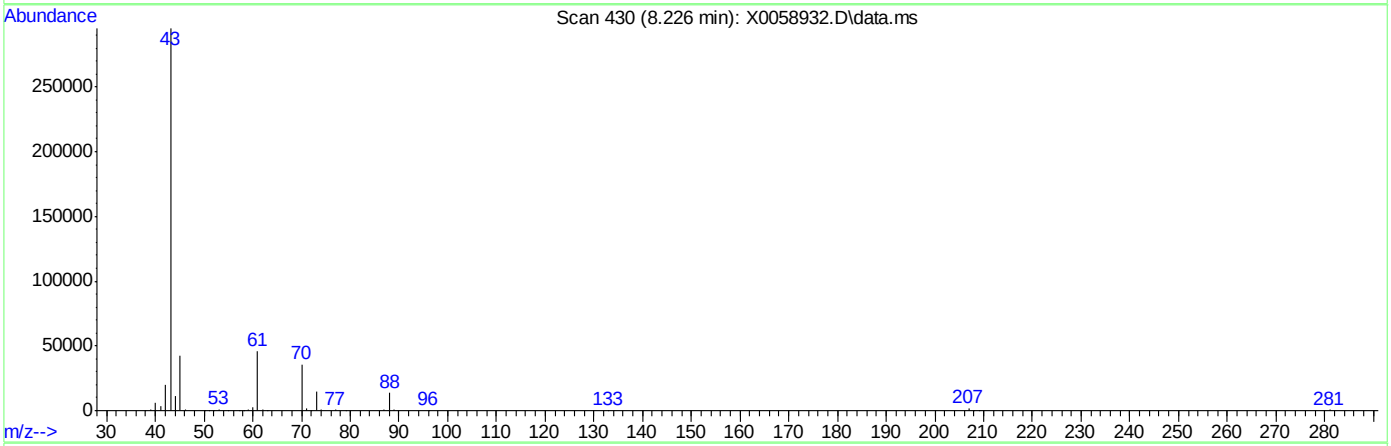
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.39
73.10	5.10	4.99
88.10	4.30	4.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.226min (-0.011) 119.72ug/L m

response 590874

Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.34
73.10	5.10	4.98
88.10	4.30	4.66

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On    :  8 Feb 2010   7:24 pm
Operator  : jennl
Sample    : t47048-12ms
Misc      : ms7509,vx439,5.,,,5,,water
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Feb 09 10:29:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration
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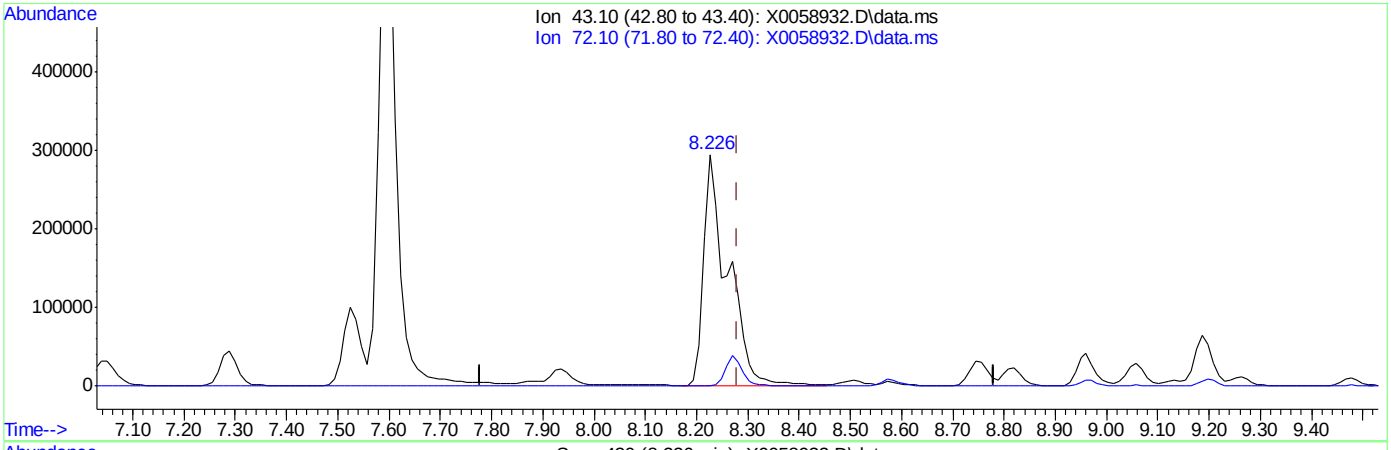
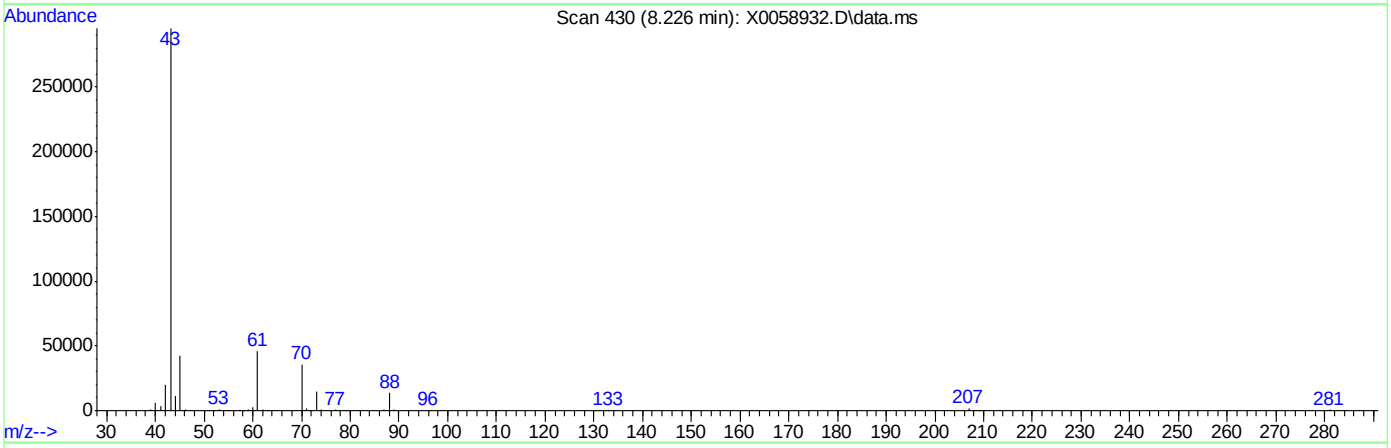




TIC: X0058932.D\data.ms

(32) 2-Butanone

8.226min (-0.054) 358.33ug/L

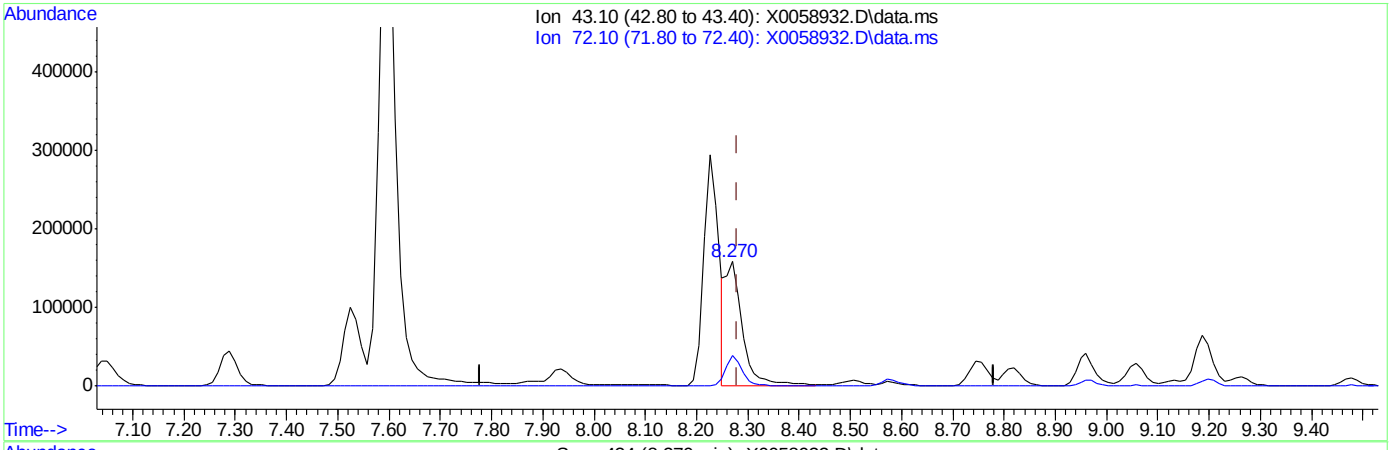
response 950798

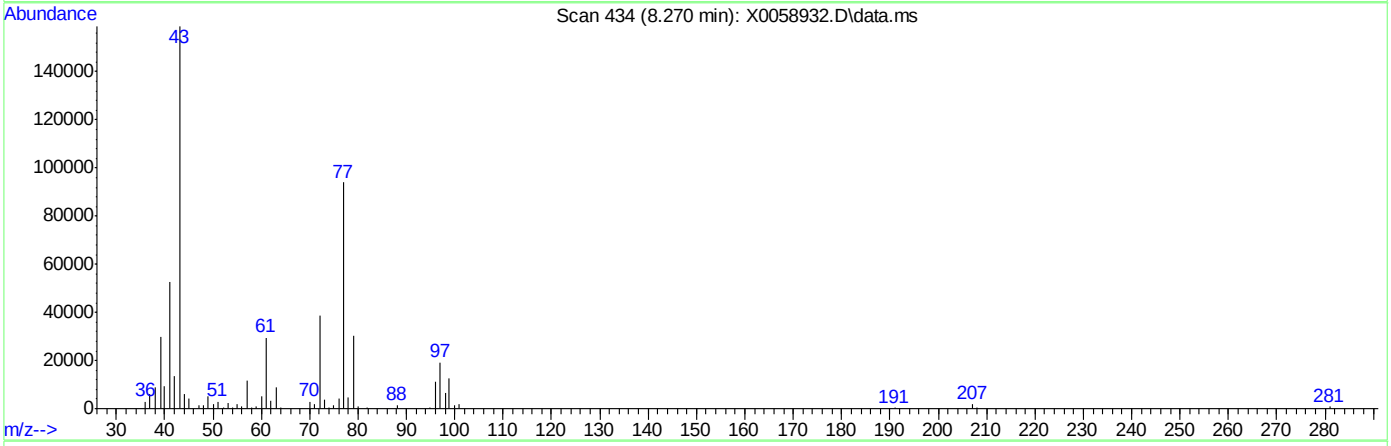
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058932.D
Acq On : 8 Feb 2010 7:24 pm
Operator : jennl
Sample : t47048-12ms
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 09 10:29:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(32) 2-Butanone

8.270min (-0.010) 138.62ug/L m

response 367832

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	24.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:29:53 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.478	96	2131048	50.00	ug/L	-0.01
60) Chlorobenzene-d5	12.661	117	1842168	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	1152756	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	1152756	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.788	113	503779	48.69	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 97.38%			
44) 1,2-Dichloroethane-d4	9.198	65	499493	43.39	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 86.78%			
61) Toluene-d8	11.086	98	1630566	54.31	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 108.62%			
82) 4-Bromofluorobenzene	13.880	95	724967	51.38	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 102.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	309319	20.39	ug/L	100
3) Chloromethane	4.191	50	153856	19.19	ug/L	100
4) Vinyl Chloride	4.407	62	171784	23.03	ug/L	95
5) Bromomethane	4.979	94	129138	20.07	ug/L	100
6) Chloroethane	5.119	64	90667	21.93	ug/L	99
7) Trichlorofluoromethane	5.464	101	332587	19.74	ug/L	97
8) Ethyl Ether	5.810	59	93628	24.79	ug/L	98
9) Acrolein	6.122	56	117817	494.52	ug/L	97
10) 1,1-Dichloroethene	6.187	61	293207	25.79	ug/L	94
11) Freon 113	6.112	101	233539	24.63	ug/L	97
12) Acetone	6.295	43	207571	108.63	ug/L	98
13) Iodomethane	6.468	142	421300	28.12	ug/L	94
14) Methyl Acetate	6.640	43	479449	101.75	ug/L	99
15) Carbon Disulfide	6.554	76	748322	28.05	ug/L	96
16) Methylene Chloride	6.845	49	252826	22.71	ug/L	95
17) Tert Butyl Alcohol	6.856	59	101332	211.72	ug/L #	64
18) Allyl Chloride	6.662	41	262723	25.32	ug/L	95
19) Acetonitrile	6.748	41	157390	214.06	ug/L	98
20) trans-1,2-Dichloroethene	7.115	61	290174	26.43	ug/L	97
21) Acrylonitrile	7.201	53	266879	132.16	ug/L	97
22) Methyl Tert Butyl Ether	7.050	73	499899	25.99	ug/L	96
23) Hexane	7.288	57	187604	22.06	ug/L	98
24) 1,1-Dichloroethane	7.655	63	366528	24.26	ug/L	98
25) Vinyl Acetate	7.601	43	1405578	113.78	ug/L	98
26) Di-isopropyl ether	7.525	45	545490	25.43	ug/L	98
27) Chloroprene	7.709	53	282090	8.30	ug/L	96
28) Ethyl tert-butyl ether	7.935	59	533319	24.72	ug/L	98
29) 2,2-Dichloropropane	8.280	77	305089	23.50	ug/L	99
30) cis-1,2-Dichloroethene	8.302	96	244694	29.16	ug/L	90
31) Ethyl Acetate	8.226	43	610741m	116.86	ug/L	
32) 2-Butanone	8.270	43	257292m	91.42	ug/L	
33) Propionitrile	8.442	54	195279	225.57	ug/L	99
34) Methacrylonitrile	8.820	41	315543	47.46	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:29:53 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.583	128	131403	24.72	ug/L #	84
36) Chloroform	8.604	83	397315	23.66	ug/kg	97
37) Tetrahydrofuran	8.820	42	123524	47.22	ug/L	94
38) 1,1,1-Trichloroethane	8.809	97	369951	24.74	ug/L	98
40) Cyclohexane	8.820	56	590961	49.78	ug/L	96
41) n-Butyl Alcohol	9.651	56	43883	455.37	ug/L	89
42) 1,1-Dichloropropene	8.971	75	289327	26.29	ug/L	94
43) Carbon Tetrachloride	8.960	117	353891	24.62	ug/L	99
45) Benzene	9.198	78	9769022	318.26	ug/L	80
46) Isobutyl Alcohol	9.057	43	67811	112.90	ug/L	67
47) 1,2-Dichloroethane	9.284	62	274336	21.91	ug/L	98
48) tert-amyl methyl ether	9.187	73	636171	30.16	ug/L	86
49) Trichloroethene	9.845	95	246370	30.03	ug/L	96
50) Methylcyclohexane	9.996	83	1355014	98.09	ug/L	96
51) Methyl Methacrylate	10.104	41	121865	23.73	ug/L	87
52) 1,2-Dichloropropane	10.147	63	208580	25.86	ug/L	98
53) Dibromomethane	10.298	93	142891	23.91	ug/kg	99
54) 1,4-Dioxane	10.223	88	27301	434.11	ug/L	93
55) Bromodichloromethane	10.395	83	316694	25.36	ug/L	95
56) 2-Nitropropane	10.687	41	268227	134.57	ug/L	90
57) 2-Chloroethyl vinyl ether	10.794	63	254099	51.25	ug/L #	23
58) 4-Methyl-2-pentanone	10.935	43	737669	114.98	ug/L	97
59) cis-1,3-Dichloropropene	10.848	75	325781	23.55	ug/L	97
62) Toluene	11.161	91	907486	26.04	ug/L	100
63) Ethyl Methacrylate	11.345	69	369137	37.12	ug/L	99
64) trans-1,3-Dichloropropene	11.420	75	294771	24.22	ug/L	98
65) 1,1,2-Trichloroethane	11.636	83	160546	22.97	ug/L	96
66) Tetrachloroethene	11.722	166	287765	28.43	ug/L	99
67) 2-hexanone	11.787	43	468581	105.35	ug/L	95
68) 1,3-Dichloropropane	11.830	76	325295	24.02	ug/L	90
69) Dibromochloromethane	12.068	129	250519	24.29	ug/L	100
70) 1,2-Dibromoethane	12.240	107	211113	25.89	ug/L	94
71) 1-Chlorohexane	12.521	91	277174	24.71	ug/L	97
72) Chlorobenzene	12.693	112	694118	25.22	ug/L	96
73) 1,1,1,2-Tetrachloroethane	12.747	131	264736	24.44	ug/L	97
74) Ethylbenzene	12.715	91	1476848	36.31	ug/L	97
75) m,p-Xylene	12.823	91	1657170	48.50	ug/L	99
76) o-Xylene	13.265	91	876030	25.61	ug/L	99
77) Styrene	13.287	104	667450	24.16	ug/L	99
78) Bromoform	13.589	173	169889	24.52	ug/L	98
80) Isopropylbenzene	13.611	105	1607023	42.75	ug/L	100
81) Cyclohexanone	13.880	55	72840	635.89	ug/L #	57
83) Bromobenzene	14.075	156	325853	26.10	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	326812	28.03	ug/L	95
85) Trans-1,4-Dichloro-2-b...	14.064	53	54435	17.26	ug/L #	55
86) 1,2,3-Trichloropropane	14.096	110	84469	24.27	ug/L	84
87) n-Propylbenzene	14.042	91	1905123	36.64	ug/L	99
88) 2-Chlorotoluene	14.226	91	876205	23.64	ug/L	100
89) 4-Chlorotoluene	14.344	91	782213	23.92	ug/L	95
90) 1,3,5-Trimethylbenzene	14.204	105	854410	23.65	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:29:53 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

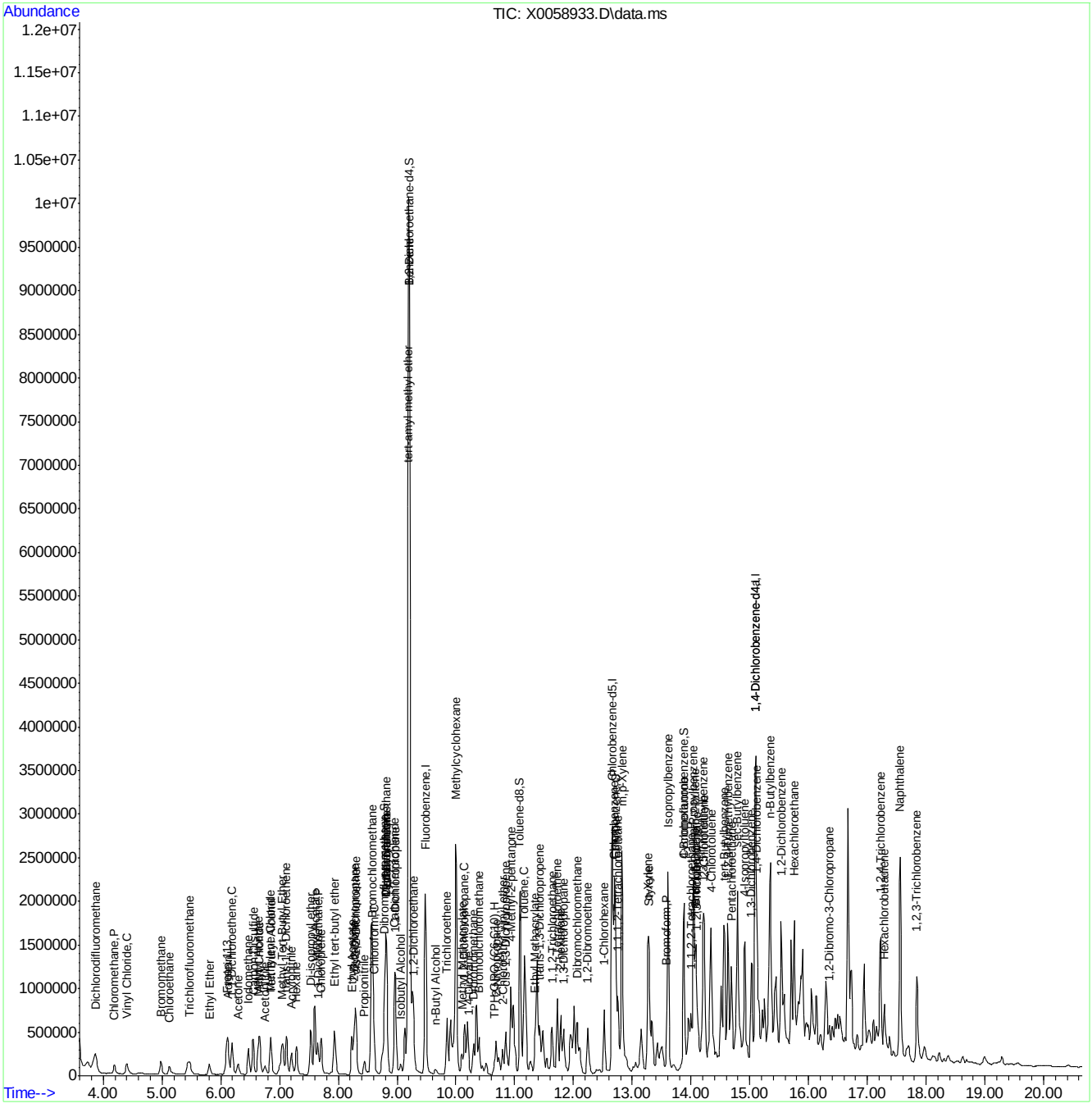
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.690	167	208726	23.27	ug/L	96
92)	sec-Butylbenzene	14.787	105	1230321	25.46	ug/L	99
93)	1,3-Dichlorobenzene	15.024	146	587290	25.39	ug/L	97
94)	4-Isopropyltoluene	14.916	119	846058	21.88	ug/L	97
95)	1,4-Dichlorobenzene	15.121	146	629022	23.39	ug/L	99
96)	tert-Butylbenzene	14.560	91	490795	23.56	ug/L	99
97)	n-Butylbenzene	15.348	91	869892	22.11	ug/L	97
98)	1,2-Dichlorobenzene	15.531	146	602171	25.15	ug/L	99
99)	1,2,4-Trimethylbenzene	14.625	105	902699	23.84	ug/L	99
100)	Hexachloroethane	15.758	119	178726	19.54	ug/L #	77
101)	1,2-Dibromo-3-Chloropr...	16.351	75	52990	23.78	ug/L	83
102)	1,2,4-Trichlorobenzene	17.225	180	437246	23.24	ug/L	98
103)	Hexachlorobutadiene	17.290	225	130565	15.74	ug/L	98
104)	Naphthalene	17.560	128	2422435	55.66	ug/L	100
105)	1,2,3-Trichlorobenzene	17.840	180	425712	23.09	ug/L	99
107)	TPH-GRO (C6-C10)	10.655	TIC	106567715m	1996.31	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

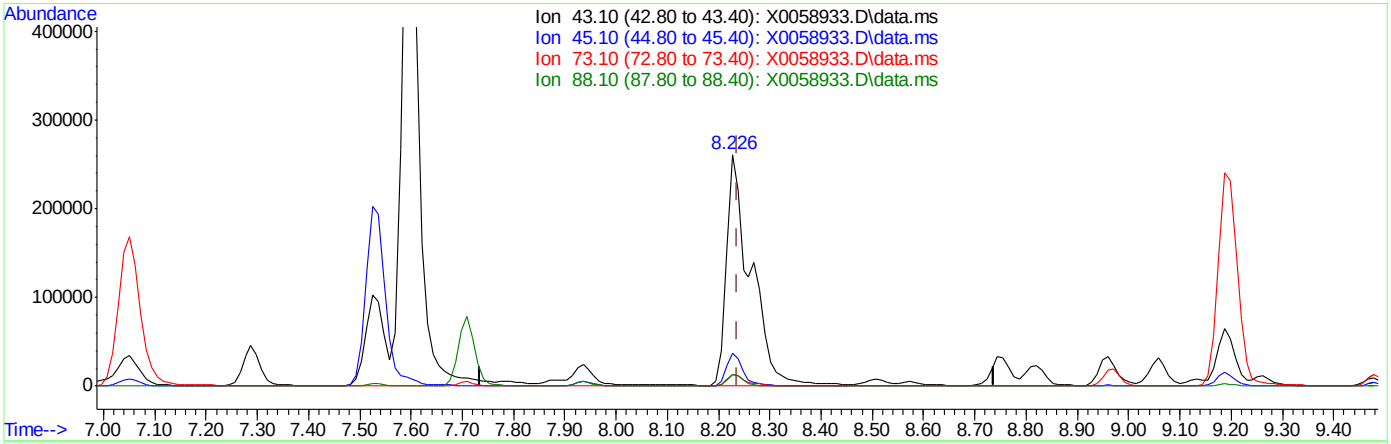
Quant Time: Feb 09 10:29:53 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

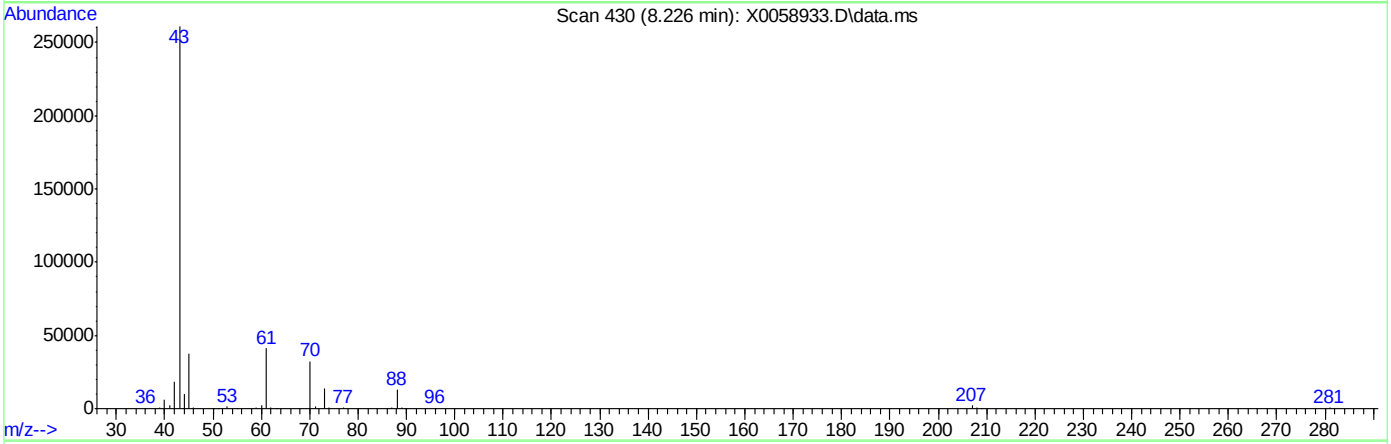


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:16:42 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058933.D\data.ms

(31) Ethyl Acetate

8.226min (-0.011) 161.21ug/L

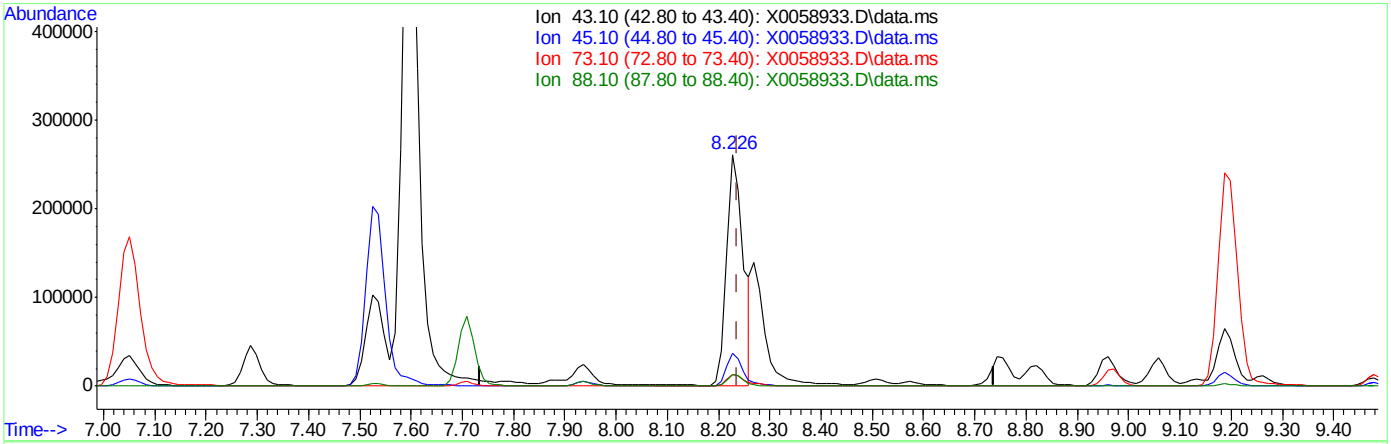
response 858166

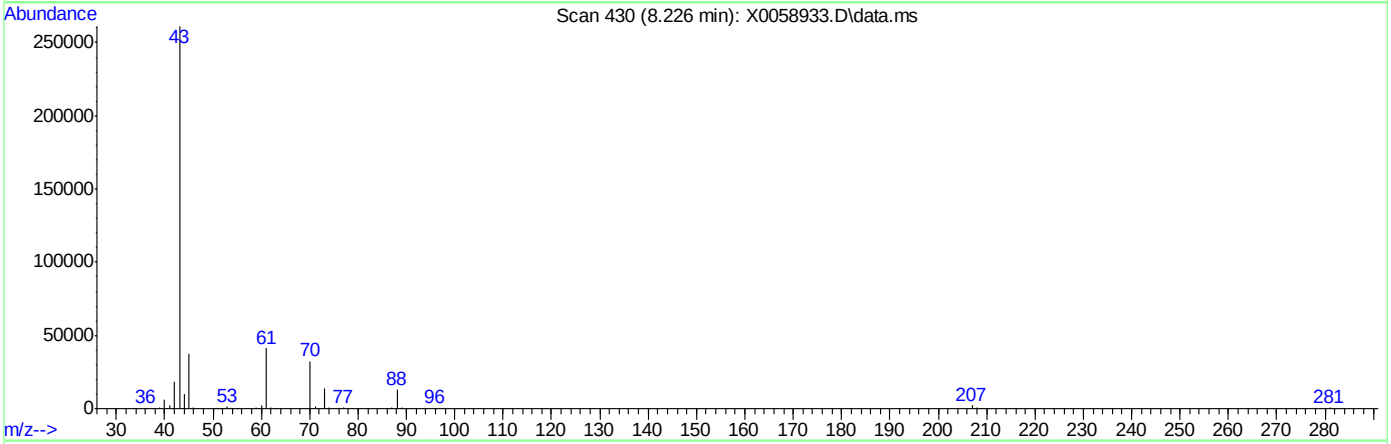
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.42
73.10	5.10	5.22
88.10	4.30	4.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:16:42 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058933.D\data.ms

(31) Ethyl Acetate

8.226min (-0.011) 116.86ug/L m

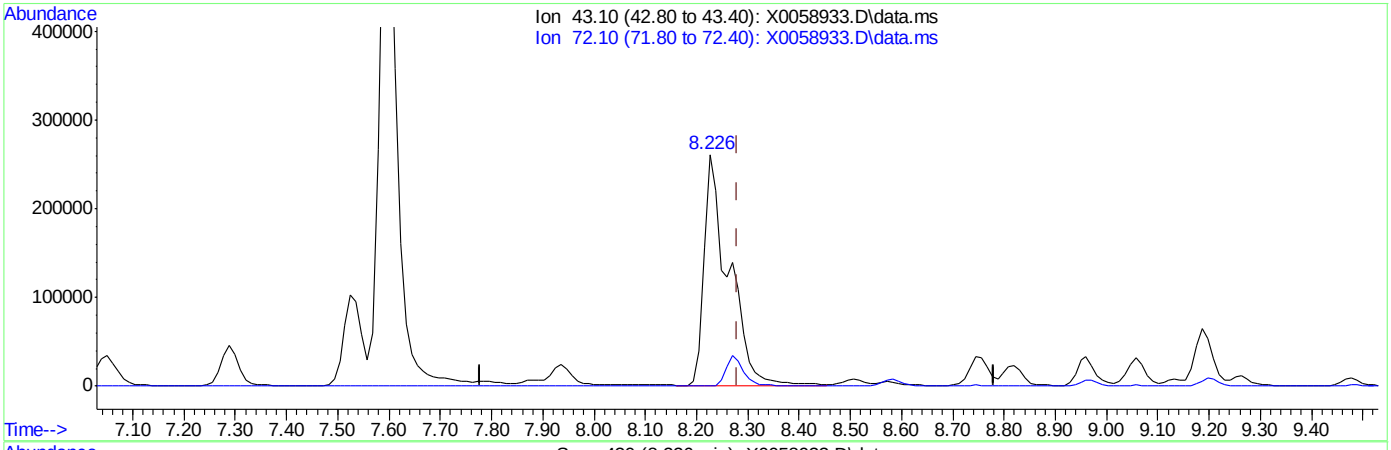
response 610741

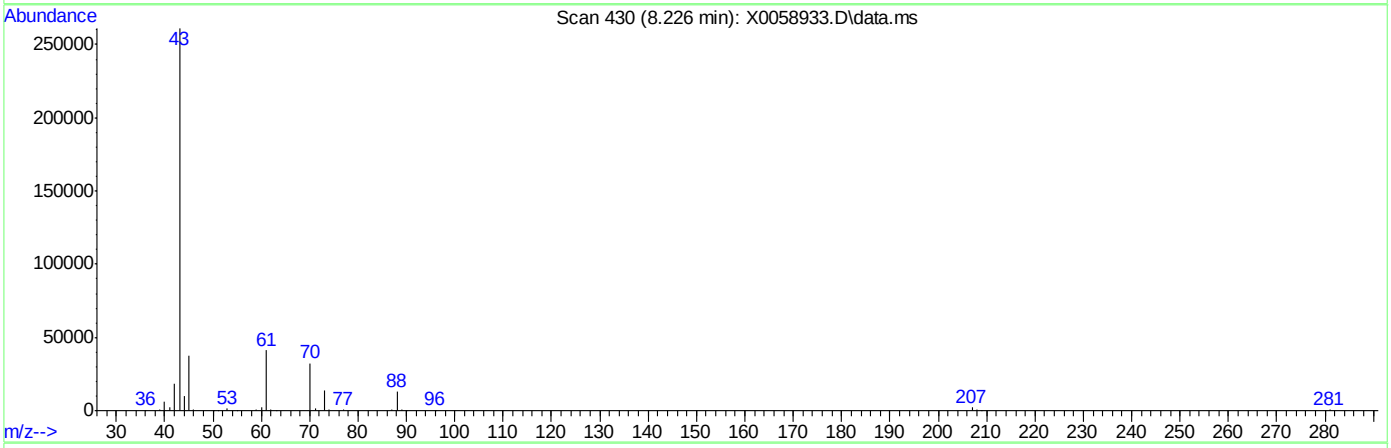
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.38
73.10	5.10	5.21
88.10	4.30	4.91

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:16:42 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058933.D\data.ms

(32) 2-Butanone

8.226min (-0.054) 304.93ug/L

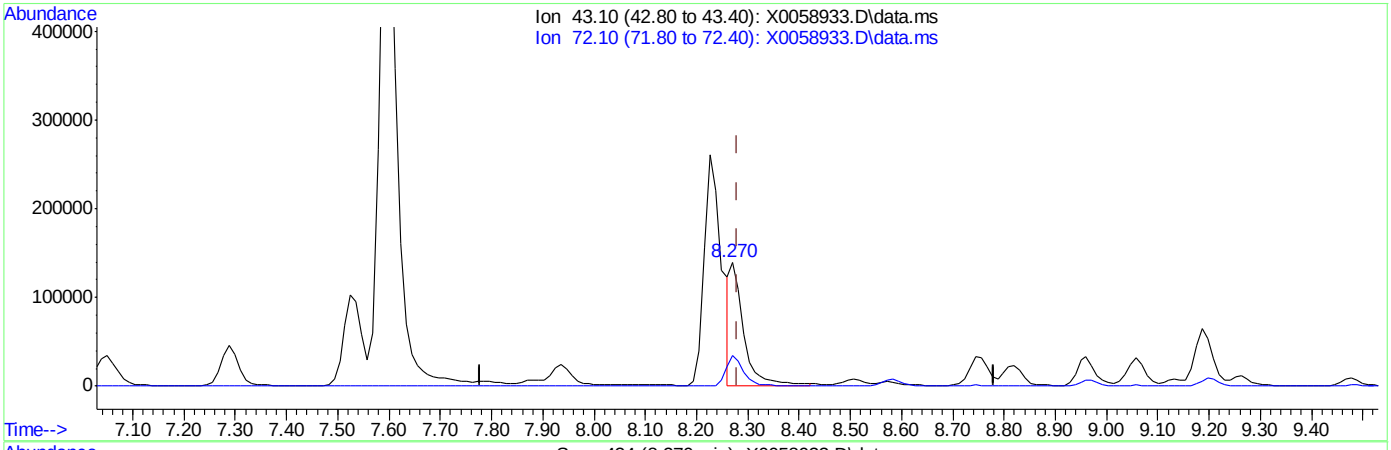
response 858166

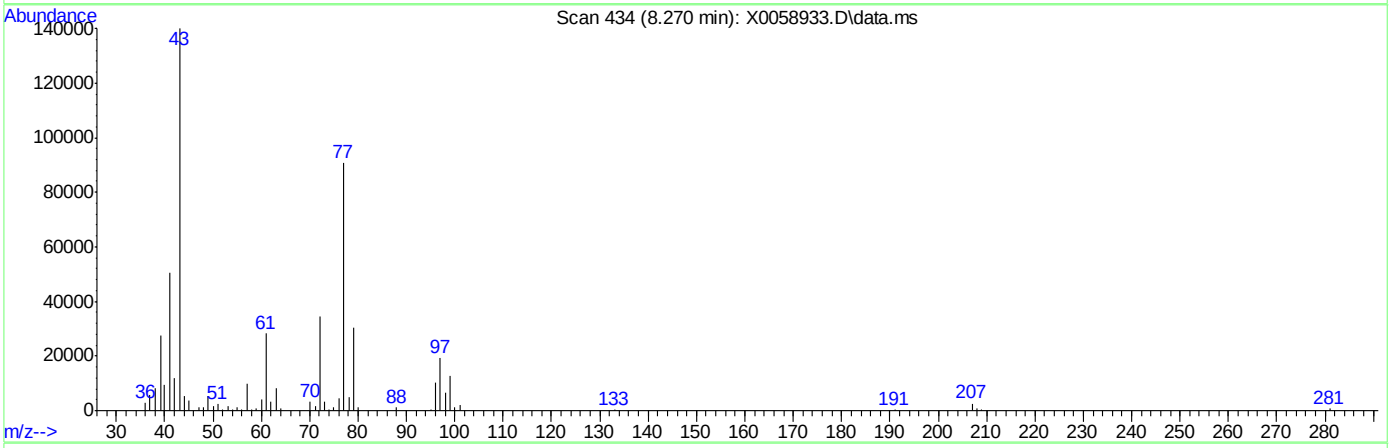
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058933.D
Acq On : 8 Feb 2010 7:53 pm
Operator : jennl
Sample : t47048-12msd
Misc : ms7509,vx439,5.,,,5,,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 09 10:16:42 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(32) 2-Butanone

8.270min (-0.010) 91.42ug/L m

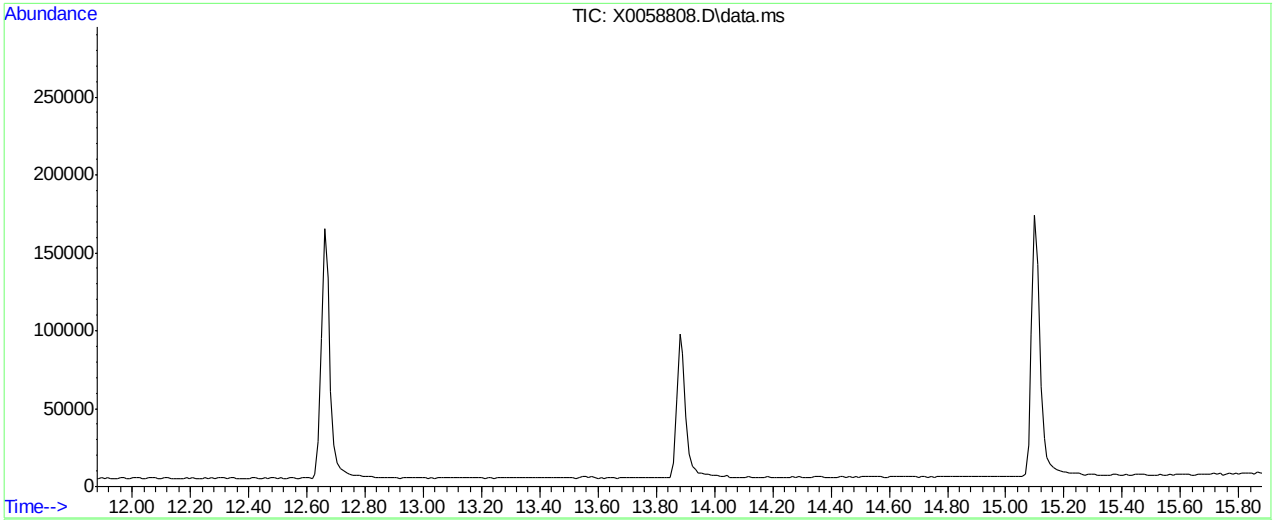
response 257292

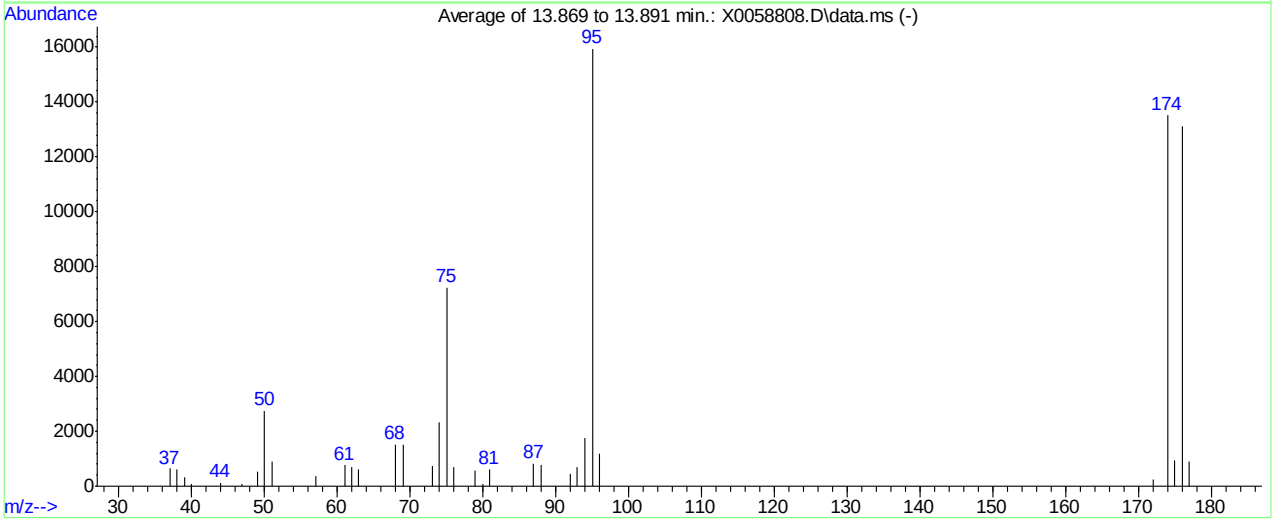
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	24.67
0.00	0.00	0.00
0.00	0.00	0.00

BFB

Data File : C:\msdchem\1\5975\VX435\X0058808.D Vial: 3
Acq On : 4 Feb 2010 1:56 pm Operator: jennl
Sample : bfb Inst : 5975
Misc : ms7475,vx435,5.,,,5,,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\vx435ap9w.m (RTE Integrator)
Title : SW846 8260B and EPA624





AutoFind: Scans 953, 954, 955; Background Corrected with Scan 948

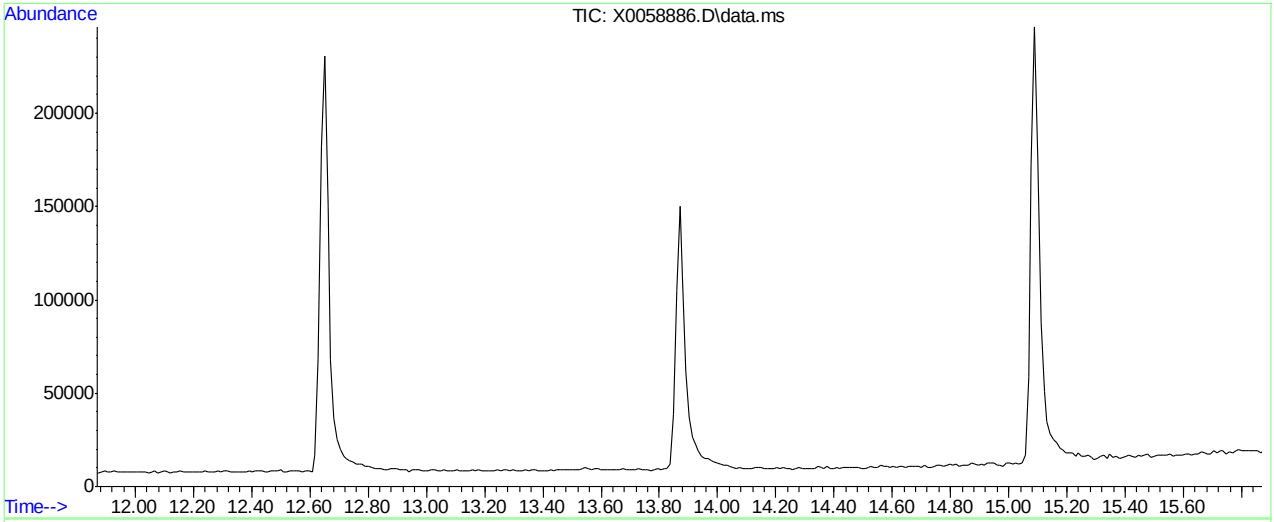
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	2752	PASS
75	95	30	60	45.4	7248	PASS
95	95	100	100	100.0	15949	PASS
96	95	5	9	7.4	1175	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.9	13536	PASS
175	174	5	9	7.1	960	PASS
176	174	95	101	96.7	13094	PASS
177	176	5	9	6.9	906	PASS

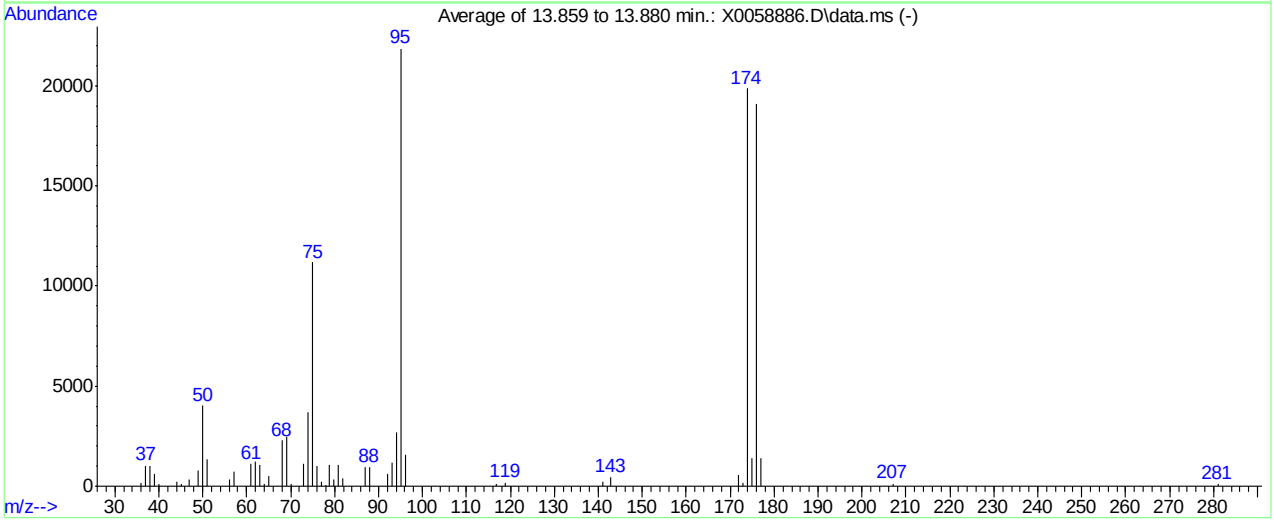
X0058808.D vx435ap9w.m Fri Feb 05 10:31:41 2010

BFB

Data File : C:\msdchem\1\5975\VX438\X0058886.D Vial: 3
Acq On : 7 Feb 2010 10:48 am Operator: jennl
Sample : bfb Inst : 5975
Misc : ms7502,vx438,5.,,,5,,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\vx435ap9w.m (RTE Integrator)
Title : SW846 8260B and EPA624





AutoFind: Scans 952, 953, 954; Background Corrected with Scan 947

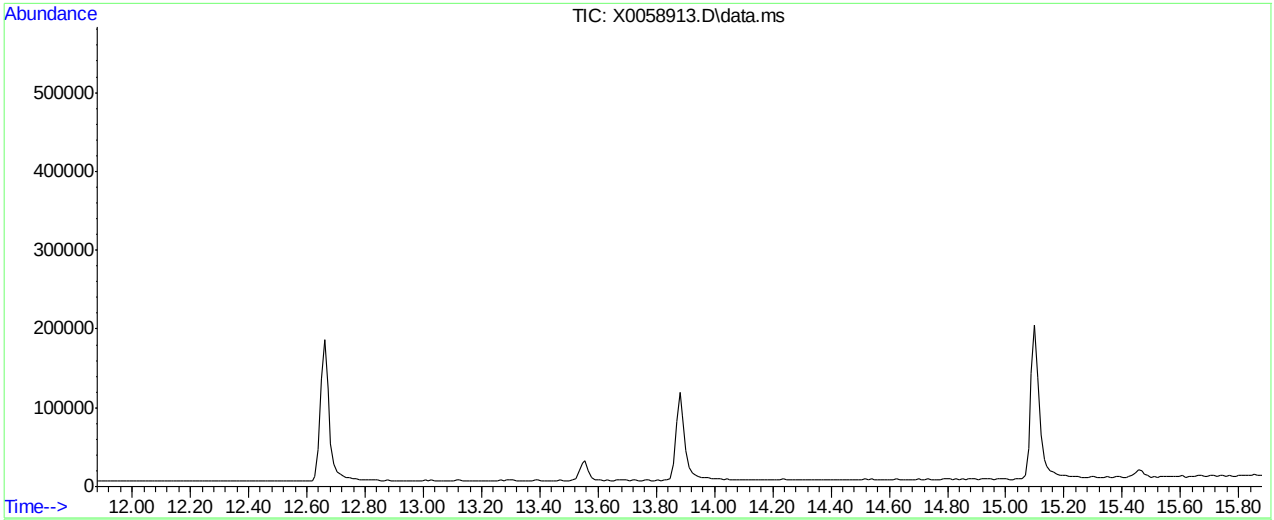
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	4030	PASS
75	95	30	60	51.1	11177	PASS
95	95	100	100	100.0	21861	PASS
96	95	5	9	7.3	1597	PASS
173	174	0.00	2	1.0	196	PASS
174	95	50	100	90.8	19850	PASS
175	174	5	9	7.1	1405	PASS
176	174	95	101	96.1	19084	PASS
177	176	5	9	7.3	1393	PASS

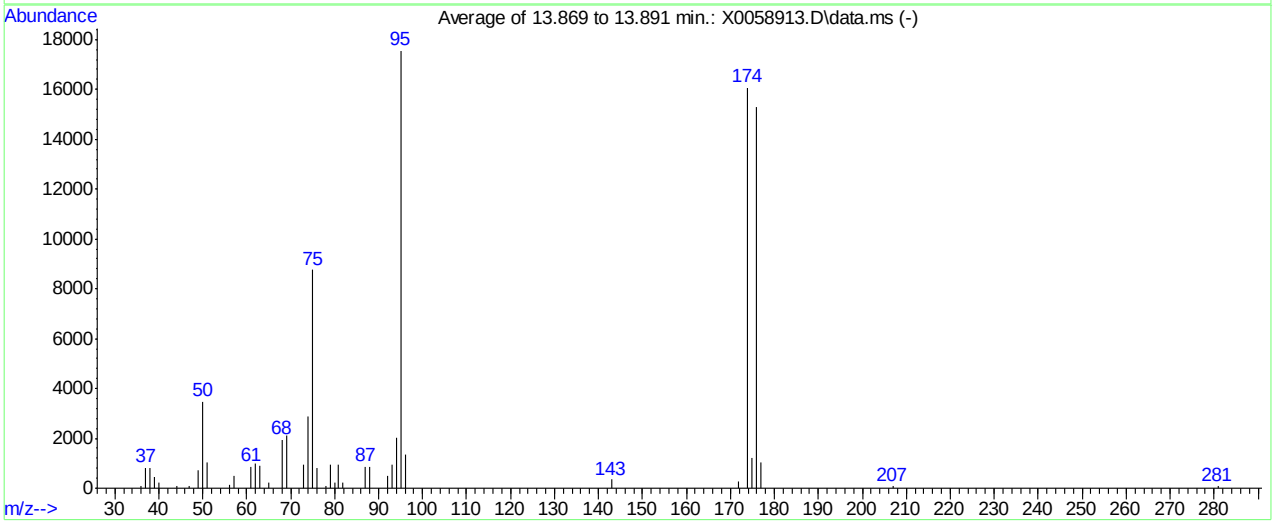
X0058886.D vx435ap9w.m Mon Feb 08 10:22:04 2010

BFB

Data File : C:\msdchem\1\5975\VX439\X0058913.D Vial: 1
Acq On : 8 Feb 2010 9:34 am Operator: jennl
Sample : bfb Inst : 5975
Misc : ms7507,vx439,5.,,,5,,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\vx439ap9w.m (RTE Integrator)
Title : SW846 8260B and EPA624





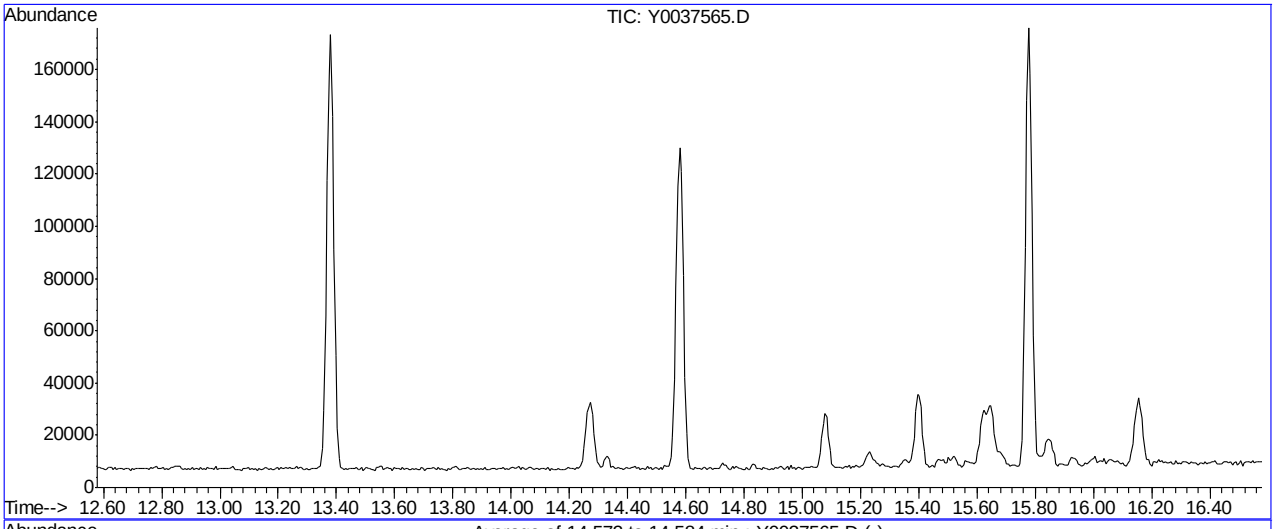
AutoFind: Scans 953, 954, 955; Background Corrected with Scan 948

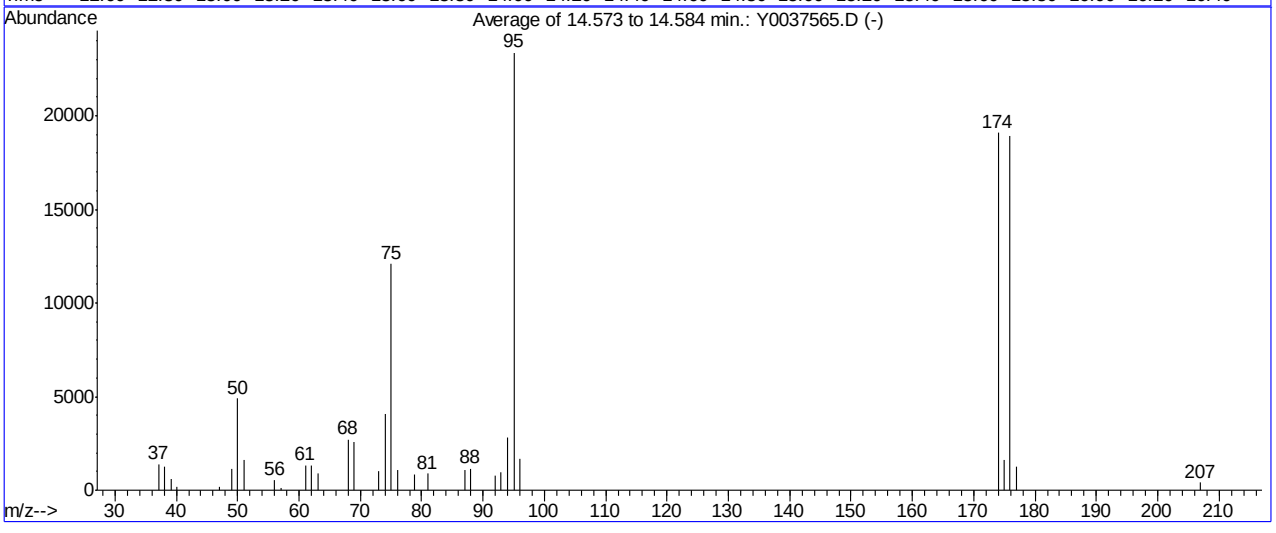
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	3471	PASS
75	95	30	60	49.9	8768	PASS
95	95	100	100	100.0	17560	PASS
96	95	5	9	7.7	1347	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.4	16057	PASS
175	174	5	9	7.5	1210	PASS
176	174	95	101	95.2	15294	PASS
177	176	5	9	6.6	1015	PASS

X0058913.D vx439ap9w.m Tue Feb 09 10:44:57 2010

Methods: SW-846 8260B

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037565.D Vial: 1
Acq On : 3 Feb 2010 5:50 pm Operator: jennl
Sample : bfb Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624





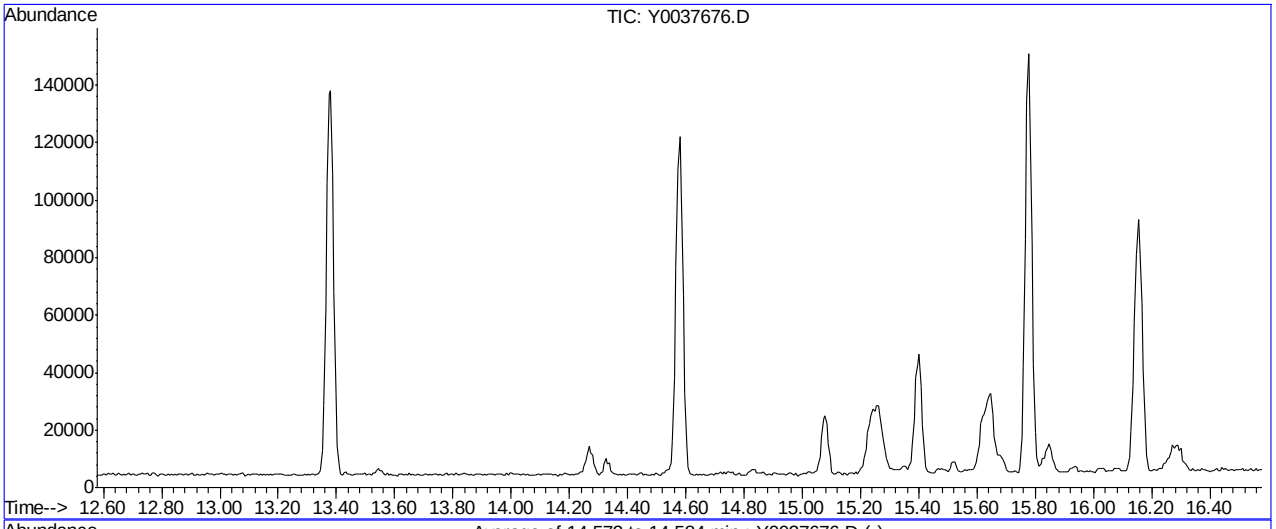
AutoFind: Scans 1820, 1821, 1822; Background Corrected with Scan 1813

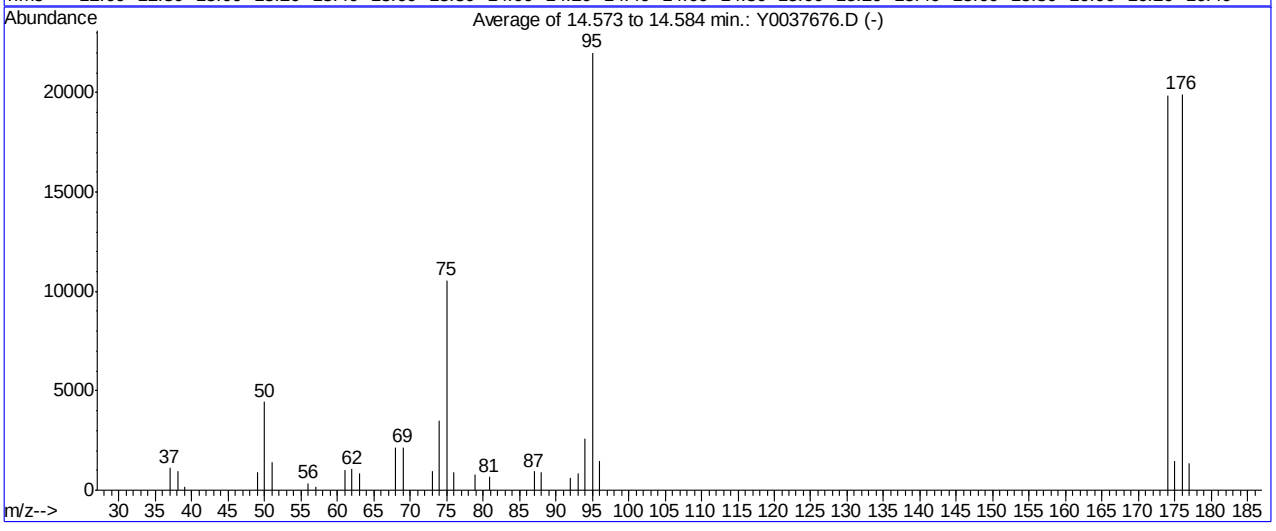
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	4910	PASS
75	95	30	60	51.6	12074	PASS
95	95	100	100	100.0	23386	PASS
96	95	5	9	7.1	1662	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.6	19093	PASS
175	174	5	9	8.5	1632	PASS
176	174	95	101	99.3	18954	PASS
177	176	5	9	6.7	1273	PASS

Y0037565.D VY2406AP9.M Fri Feb 05 10:27:09 2010

Methods: SW-846 8260B

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037676.D Vial: 1
Acq On : 8 Feb 2010 9:46 am Operator: jennl
Sample : bfb Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624





AutoFind: Scans 1820, 1821, 1822; Background Corrected with Scan 1813

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	4450	PASS
75	95	30	60	48.0	10571	PASS
95	95	100	100	100.0	22026	PASS
96	95	5	9	6.6	1452	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.1	19856	PASS
175	174	5	9	7.5	1492	PASS
176	174	95	101	100.3	19920	PASS
177	176	5	9	6.9	1365	PASS

Y0037676.D VY2406AP9.M Tue Feb 09 10:08:02 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:11:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1407387	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1097676	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	599599	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	599599	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	12930	2.09	ug/L	0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 4.18%#			
44) 1,2-Dichloroethane-d4	9.208	65	13646	2.18	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 4.36%#			
61) Toluene-d8	11.097	98	30469	1.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.22%#			
82) 4-Bromofluorobenzene	13.880	95	10672	1.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.02%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	17487	2.15	ug/L	95
3) Chloromethane	4.191	50	8960	2.42	ug/L	97
4) Vinyl Chloride	4.396	62	8289	2.35	ug/L	100
5) Bromomethane	4.990	94	8539	2.66	ug/L	90
6) Chloroethane	5.130	64	4778	2.43	ug/L	95
7) Trichlorofluoromethane	5.475	101	18448	2.33	ug/L	100
8) Ethyl Ether	5.810	59	4400	2.13	ug/L	93
9) Acrolein	6.133	56	1481	8.60	ug/L	97
10) 1,1-Dichloroethene	6.198	61	11906	1.69	ug/L	95
11) Freon 113	6.112	101	9906	1.64	ug/L	98
12) Acetone	6.306	43	19297	16.38	ug/L	100
13) Iodomethane	6.479	142	17106	1.66	ug/L	98
14) Methyl Acetate	6.640	43	31405	10.89	ug/L	99
15) Carbon Disulfide	6.554	76	33793	1.82	ug/L	97
16) Methylene Chloride	6.856	49	14056	2.20	ug/L	97
17) Tert Butyl Alcohol	6.856	59	4783	17.12	ug/L	64
18) Allyl Chloride	6.673	41	9916	1.86	ug/L	98
19) Acetonitrile	6.759	41	2991	6.55	ug/L	77
20) trans-1,2-Dichloroethene	7.126	61	11027	1.58	ug/L	97
21) Acrylonitrile	7.212	53	11965	8.57	ug/L	98
22) Methyl Tert Butyl Ether	7.050	73	16167	1.41	ug/L	84
23) Hexane	7.299	57	5752	1.07	ug/L	75
24) 1,1-Dichloroethane	7.655	63	17173	1.85	ug/L	97
25) Vinyl Acetate	7.611	43	50230	6.70	ug/L	95
26) Di-isopropyl ether	7.536	45	14908	1.20	ug/L	72
27) Chloroprene	7.719	53	21286	1.47	ug/L	98
28) Ethyl tert-butyl ether	7.935	59	15841	1.26	ug/L	97
29) 2,2-Dichloropropane	8.280	77	11986	1.63	ug/L	99
30) cis-1,2-Dichloroethene	8.302	96	8985	1.51	ug/L	96
31) Ethyl Acetate	8.248	43	25699m	8.00	ug/L	
32) 2-Butanone	8.280	43	18838m	10.05	ug/L	
33) Propionitrile	8.464	54	4779	8.40	ug/L	93
34) Methacrylonitrile	8.820	41	4384m	1.19	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:11:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.583	128	6121	1.76	ug/L	97
36) Chloroform	8.604	83	19618	1.90	ug/kg	98
37) Tetrahydrofuran	8.820	42	1811	1.18	ug/L	88
38) 1,1,1-Trichloroethane	8.820	97	14645	1.68	ug/L	99
40) Cyclohexane	8.820	56	7044	0.99	ug/L	92
41) n-Butyl Alcohol	9.662	56	513	8.32	ug/L #	67
42) 1,1-Dichloropropene	8.971	75	7845	1.21	ug/L	93
43) Carbon Tetrachloride	8.960	117	12830	1.64	ug/L	98
45) Benzene	9.208	78	34844	1.60	ug/L	88
46) Isobutyl Alcohol	9.198	43	4540	13.19	ug/L	75
47) 1,2-Dichloroethane	9.295	62	13319	1.88	ug/L	98
48) tert-amyl methyl ether	9.198	73	14449	1.19	ug/L	80
49) Trichloroethene	9.856	95	8265	1.48	ug/L	97
50) Methylcyclohexane	10.007	83	7545	0.98	ug/L	97
51) Methyl Methacrylate	10.115	41	2724m	1.08	ug/L	
52) 1,2-Dichloropropane	10.158	63	8729	1.63	ug/L	90
53) Dibromomethane	10.309	93	6989	1.79	ug/kg	98
54) 1,4-Dioxane	10.233	88	654	14.99	ug/L	60
55) Bromodichloromethane	10.406	83	13542	1.75	ug/L	98
56) 2-Nitropropane	10.687	41	8666	8.29	ug/L	85
57) 2-Chloroethyl vinyl ether	10.643	63	13702	4.78	ug/L	93
58) 4-Methyl-2-pentanone	10.945	43	25953	6.89	ug/L	91
59) cis-1,3-Dichloropropene	10.859	75	10208	1.25	ug/L	94
62) Toluene	11.172	91	28514	1.30	ug/L	97
63) Ethyl Methacrylate	11.355	69	4836	0.93	ug/L	95
64) trans-1,3-Dichloropropene	11.431	75	8549	1.27	ug/L	96
65) 1,1,2-Trichloroethane	11.636	83	8037	1.78	ug/L	98
66) Tetrachloroethene	11.733	166	9716	1.49	ug/L	97
67) 2-hexanone	11.798	43	13565	5.41	ug/L	90
68) 1,3-Dichloropropane	11.841	76	14480	1.67	ug/L	94
69) Dibromochloromethane	12.068	129	9900	1.62	ug/L	98
70) 1,2-Dibromoethane	12.251	107	8413	1.60	ug/L	95
71) 1-Chlorohexane	12.532	91	4795	0.75	ug/L	71
72) Chlorobenzene	12.693	112	30798	1.83	ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.758	131	10610	1.71	ug/L #	83
74) Ethylbenzene	12.715	91	38506	1.49	ug/L	98
75) m,p-Xylene	12.834	91	46884	2.35	ug/L	97
76) o-Xylene	13.276	91	19035	0.98	ug/L	98
77) Styrene	13.308	104	13589	0.86	ug/L	98
78) Bromoform	13.600	173	6351	1.52	ug/L	93
80) Isopropylbenzene	13.621	105	17317	0.91	ug/L	95
81) Cyclohexanone	13.880	55	546	10.15	ug/L #	64
83) Bromobenzene	14.096	156	10299	1.40	ug/L	96
84) 1,1,2,2-Tetrachloroethane	13.999	83	13516	1.99	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.074	53	1826	1.11	ug/L #	68
86) 1,2,3-Trichloropropane	14.096	110	3365	1.73	ug/L	88
87) n-Propylbenzene	14.053	91	26827	0.98	ug/L	100
88) 2-Chlorotoluene	14.236	91	25533	1.26	ug/L	98
89) 4-Chlorotoluene	14.355	91	21206	1.21	ug/L	98
90) 1,3,5-Trimethylbenzene	14.215	105	17562	0.93	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:11:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration

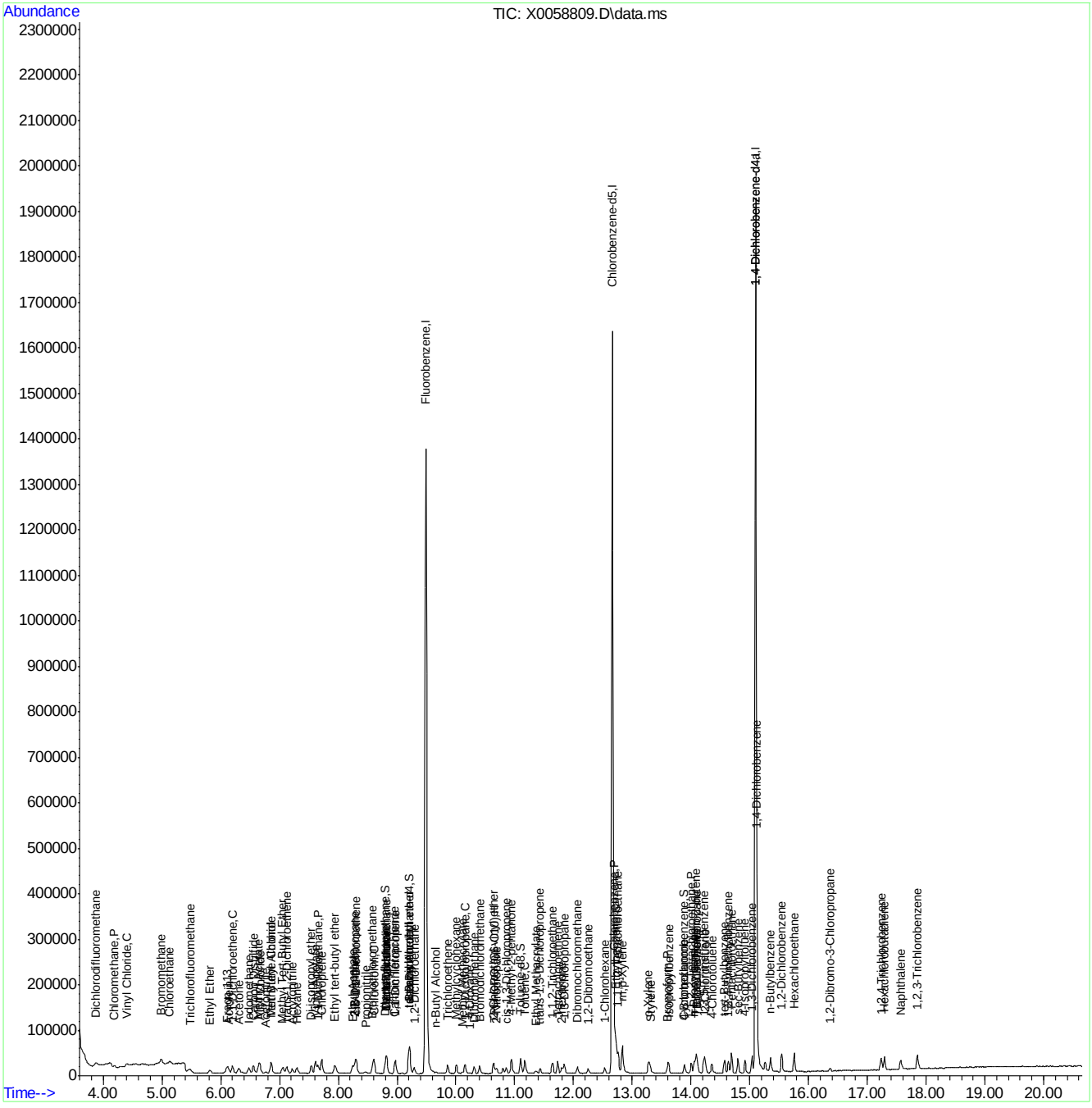
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	Pentachloroethane	14.690	167	8999	1.93	ug/L		93
92)	sec-Butylbenzene	14.797	105	24409	0.97	ug/L		99
93)	1,3-Dichlorobenzene	15.035	146	19676	1.49	ug/L		95
94)	4-Isopropyltoluene	14.916	119	17311	0.88	ug/L		99
95)	1,4-Dichlorobenzene	15.121	146	27630m	1.89	ug/L		
96)	tert-Butylbenzene	14.571	91	11193	1.05	ug/L		87
97)	n-Butylbenzene	15.348	91	24832	1.21	ug/L		91
98)	1,2-Dichlorobenzene	15.542	146	21551	1.61	ug/L		99
99)	1,2,4-Trimethylbenzene	14.636	105	18099	0.91	ug/L		93
100)	Hexachloroethane	15.758	119	8578	1.98	ug/L		88
101)	1,2-Dibromo-3-Chloropr...	16.362	75	2148	1.87	ug/L	#	77
102)	1,2,4-Trichlorobenzene	17.236	180	13324	1.39	ug/L		98
103)	Hexachlorobutadiene	17.290	225	6801	1.63	ug/L		97
104)	Naphthalene	17.570	128	25728	1.25	ug/L		99
105)	1,2,3-Trichlorobenzene	17.851	180	14981	1.57	ug/L		97
107)	TPH-GRO (C6-C10)	10.659	TIC	599462m	17.14	ug/kg		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

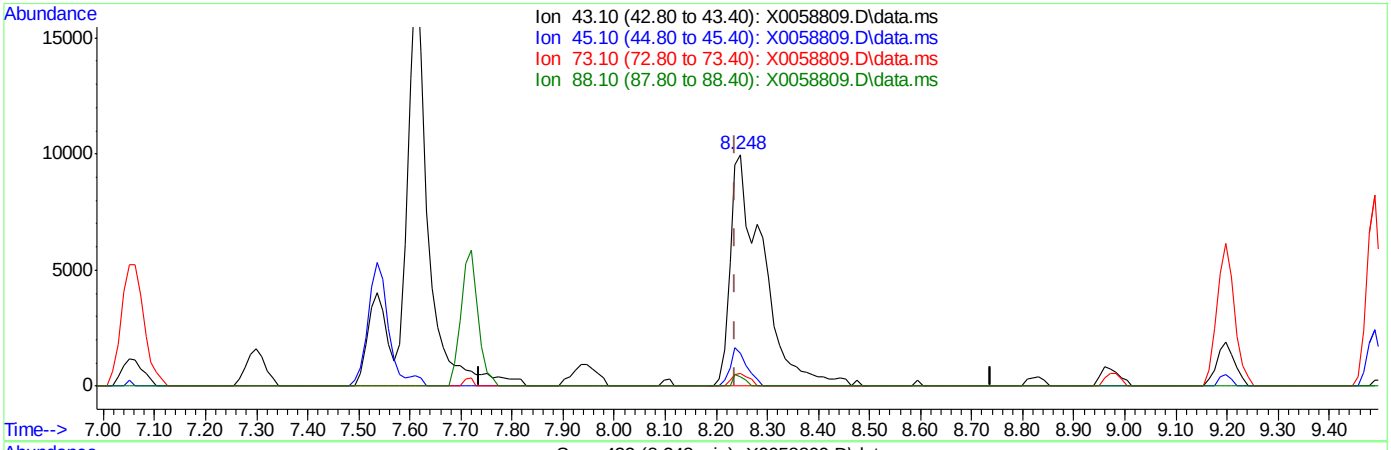
Quant Time: Feb 05 09:11:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration

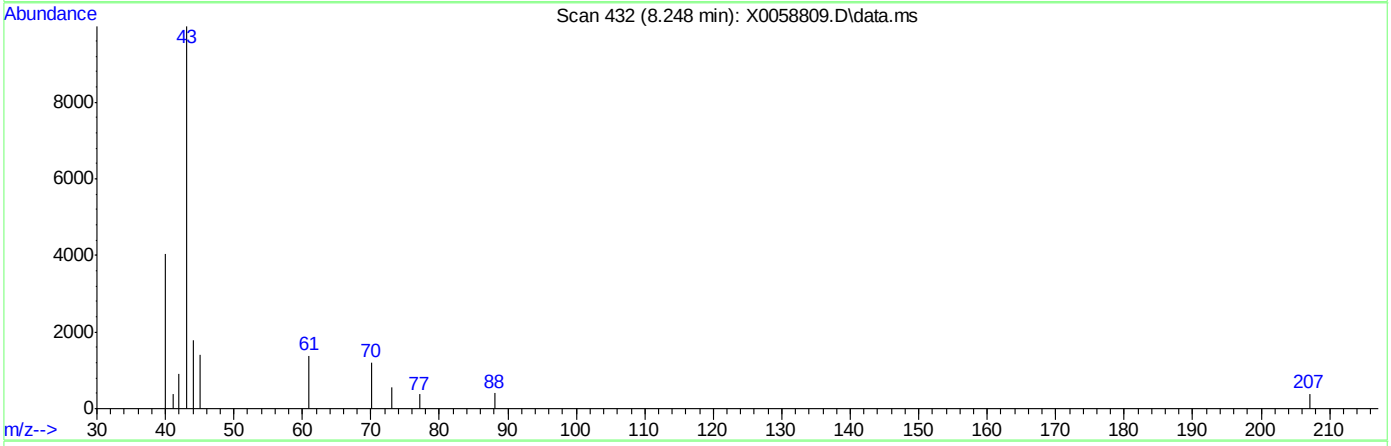


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration





TIC: X0058809.D\data.ms

(31) Ethyl Acetate

8.248min (+0.011) 13.92ug/L

response 44707

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.00
73.10	5.80	5.47
88.10	5.20	4.10

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On    :  4 Feb 2010   2:26 pm
Operator  : jennl
Sample    : ic435-2
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration
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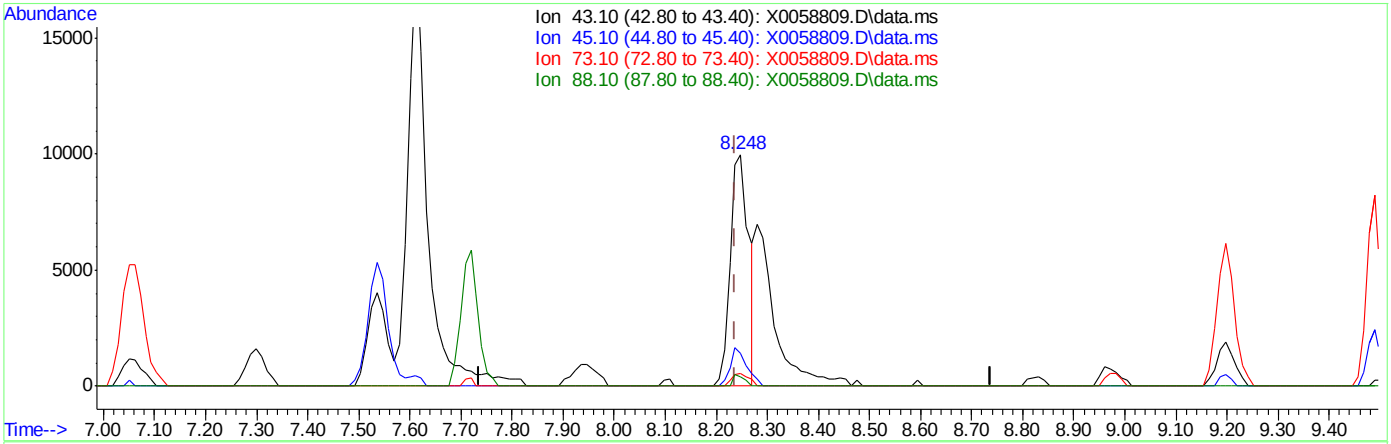

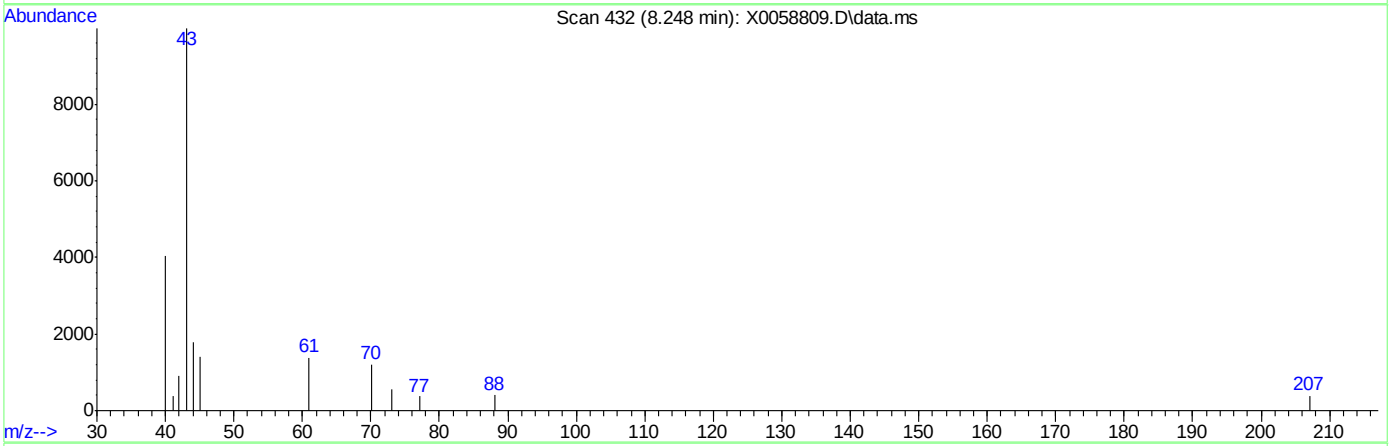

TIC: X0058809.D\data.ms

(31) Ethyl Acetate

8.248min (+0.011) 8.00ug/L m

response 25699

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.00
73.10	5.80	5.47
88.10	5.20	4.10

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On    :  4 Feb 2010   2:26 pm
Operator  : jennl
Sample    : ic435-2
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration
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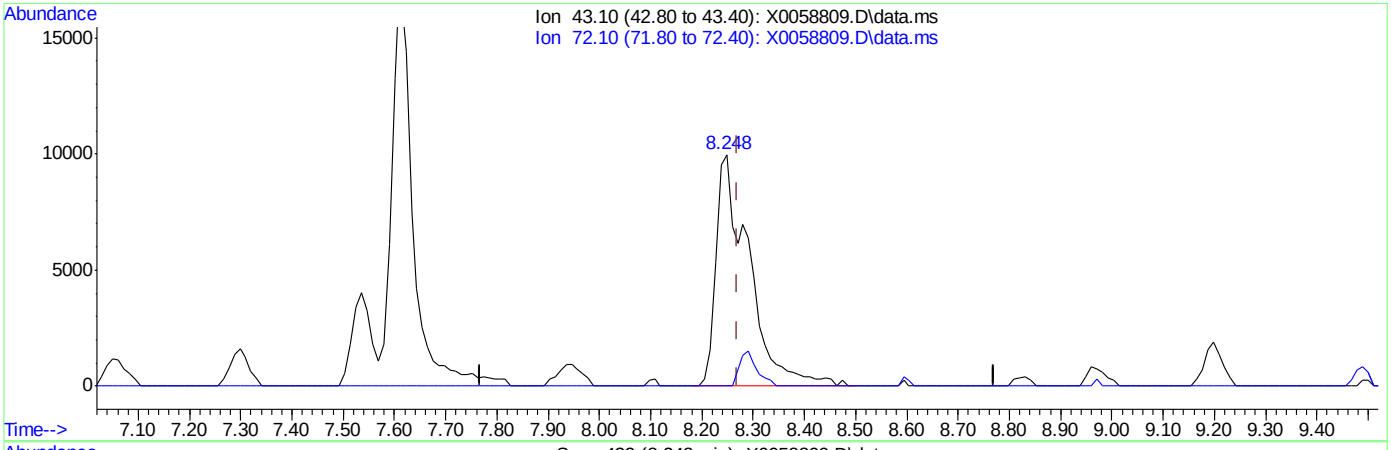

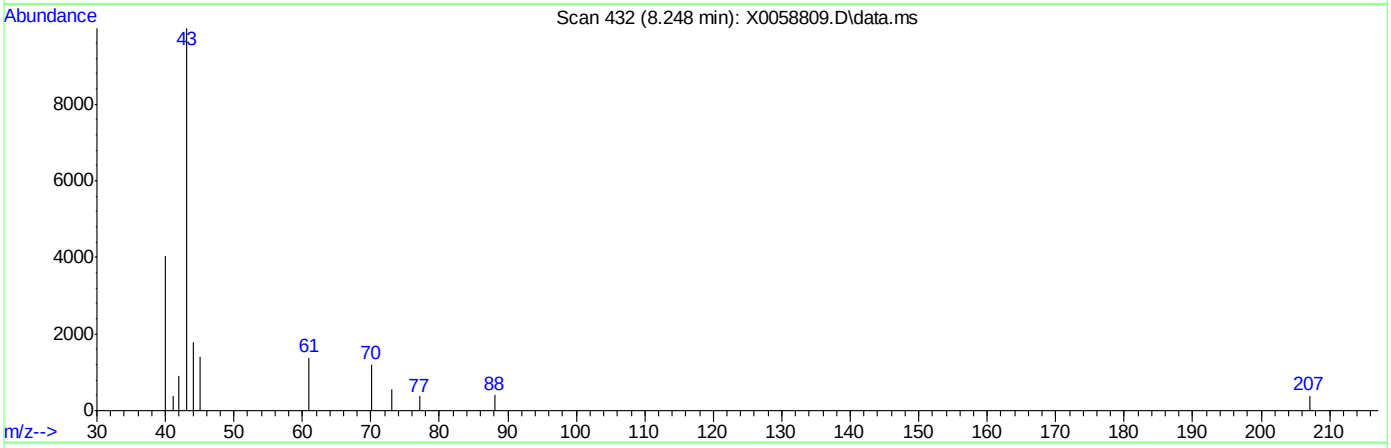

TIC: X0058809.D\data.ms

(32) 2-Butanone

8.248min (-0.021) 23.84ug/L

response 44707

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On    :  4 Feb 2010   2:26 pm
Operator  : jennl
Sample    : ic435-2
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration
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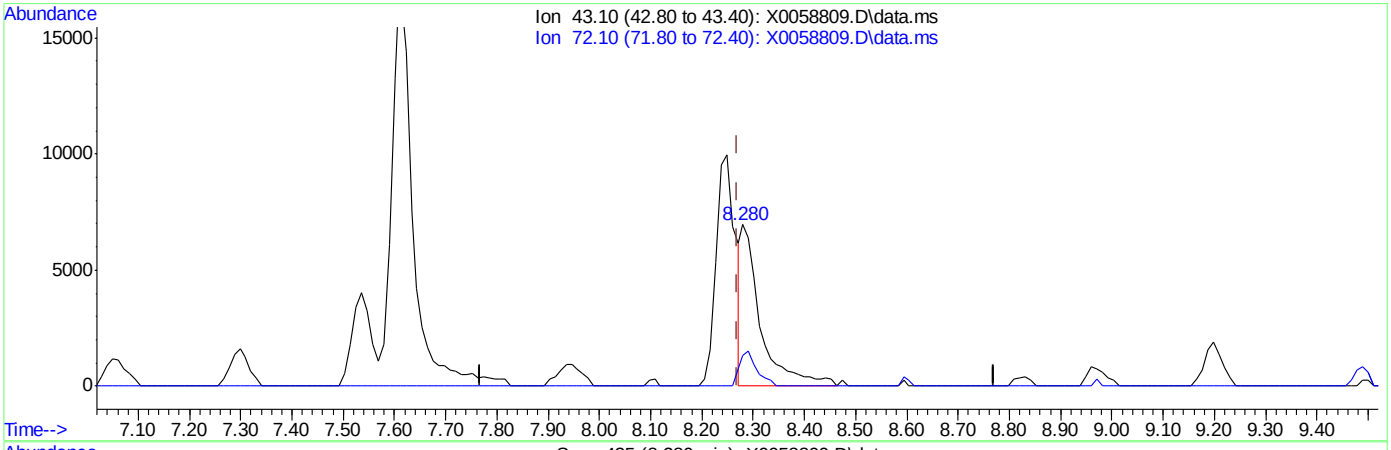

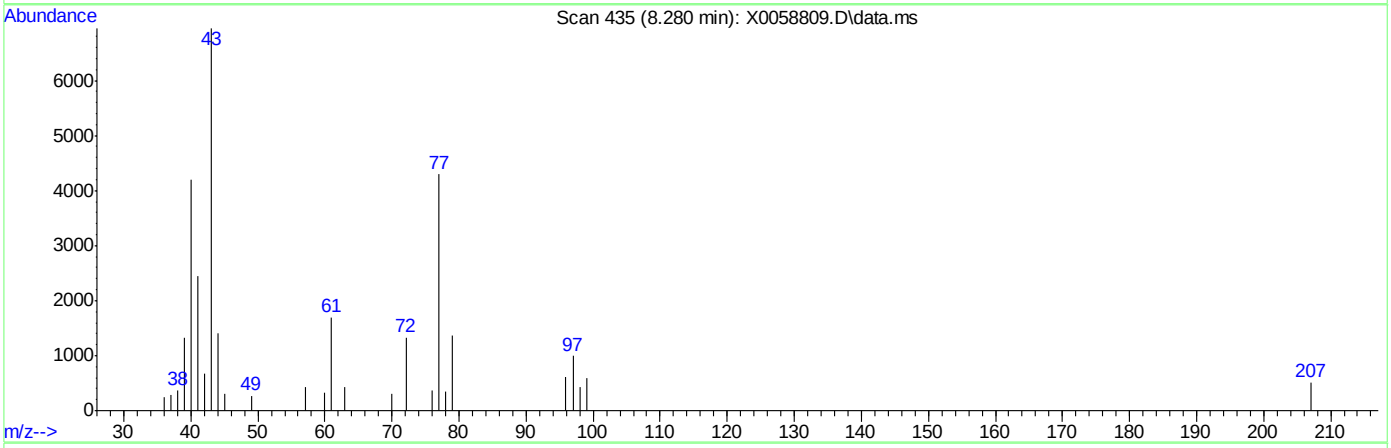

TIC: X0058809.D\data.ms

(32) 2-Butanone

8.280min (+0.011) 10.05ug/L m

response 18838

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	19.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
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QLast Update : Fri Feb 05 09:08:39 2010
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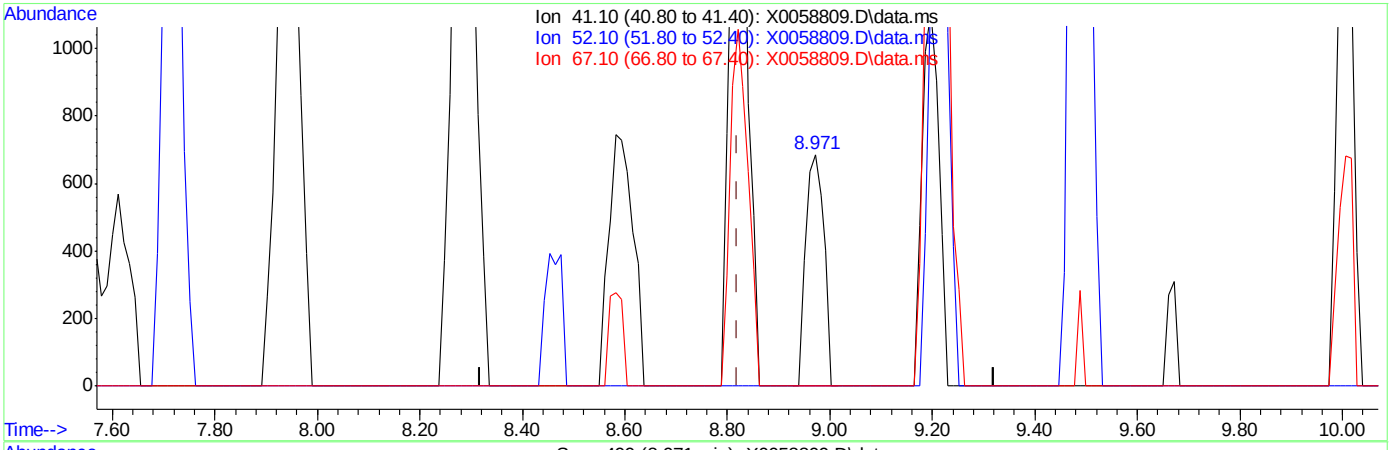

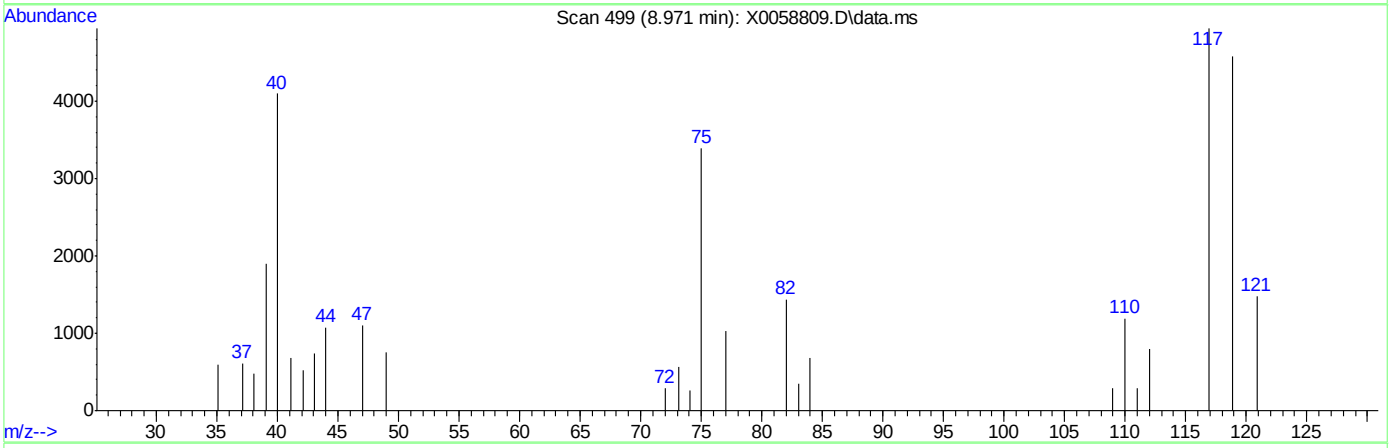

TIC: X0058809.D\data.ms

(34) Methacrylonitrile

8.971min (+0.151) 0.47ug/L

response 1723

Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	16.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On    :  4 Feb 2010   2:26 pm
Operator  : jennl
Sample    : ic435-2
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration
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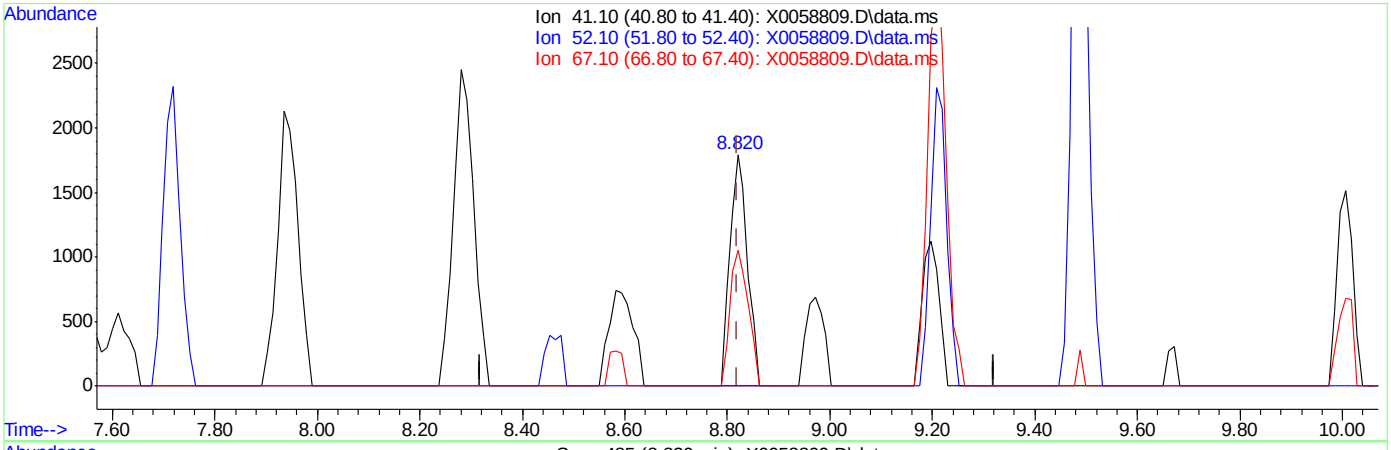
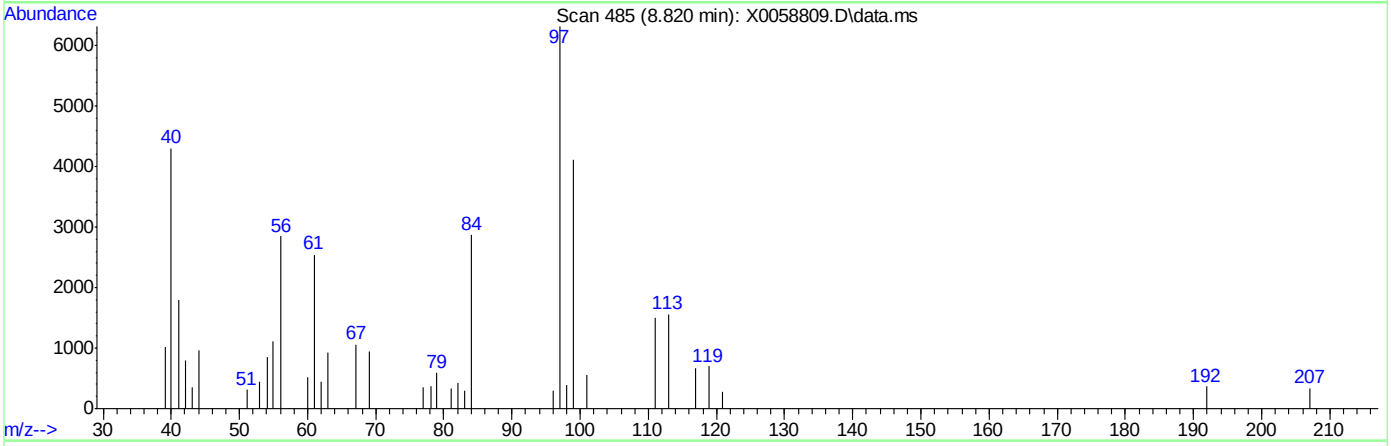




(34) Methacrylonitrile

8.820min (+0.000) 1.19ug/L m

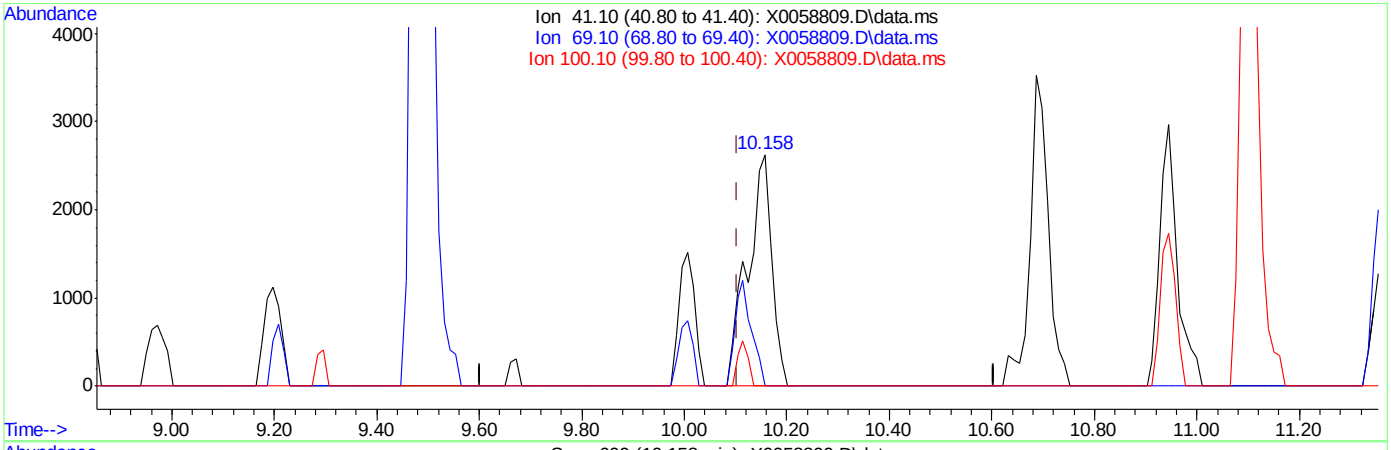
response 4384

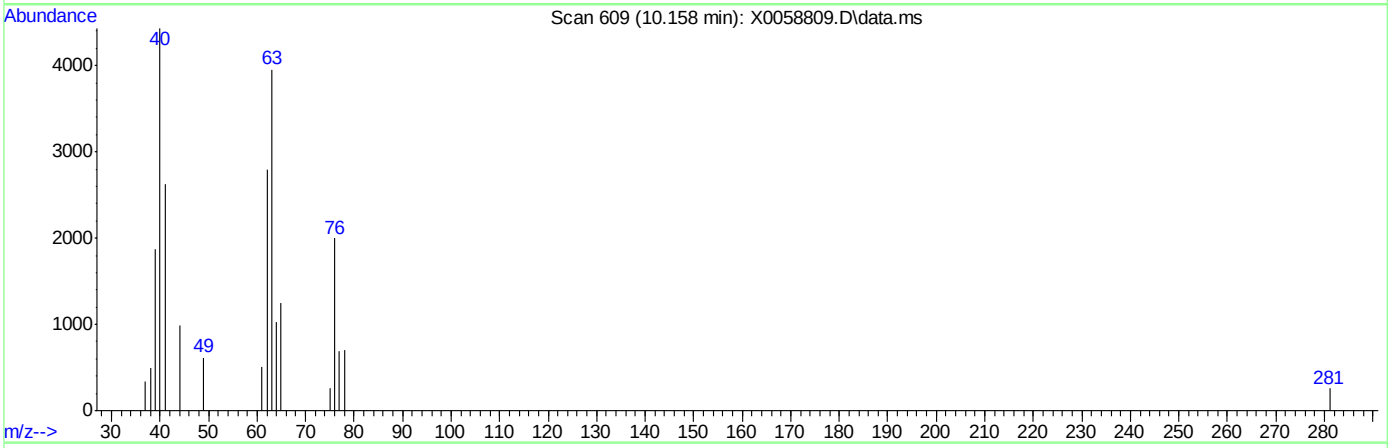
Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	16.10	58.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration





TIC: X0058809.D\data.ms

(51) Methyl Methacrylate

10.158min (+0.054) 3.44ug/L

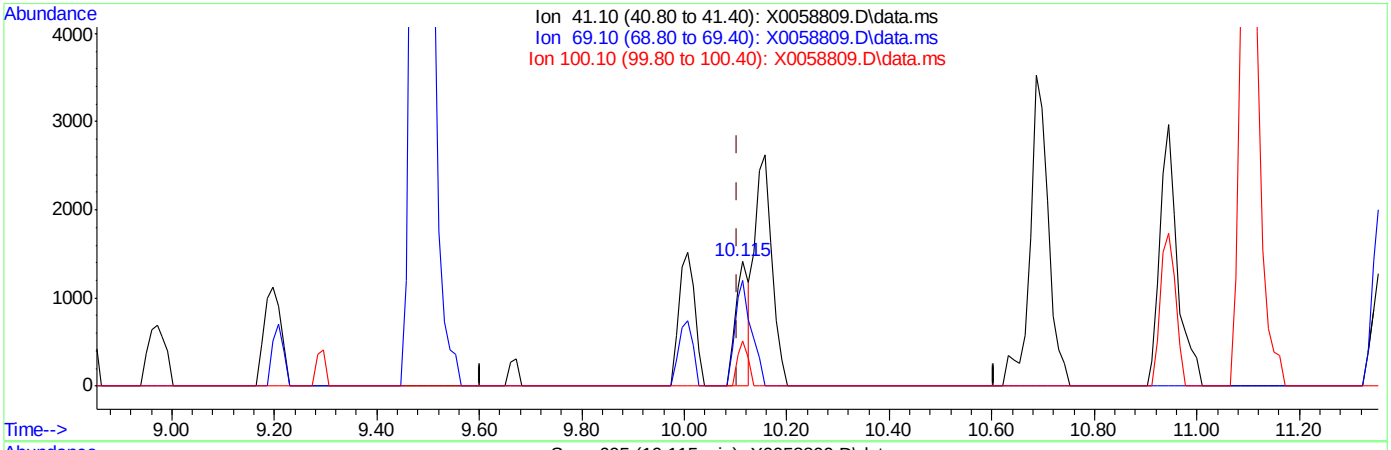
response 8720

Ion	Exp%	Act%
41.10	100	100
69.10	97.90	0.00#
100.10	39.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration



TIC: X0058809.D\data.ms

(51) Methyl Methacrylate

10.115min (+0.011) 1.08ug/L m

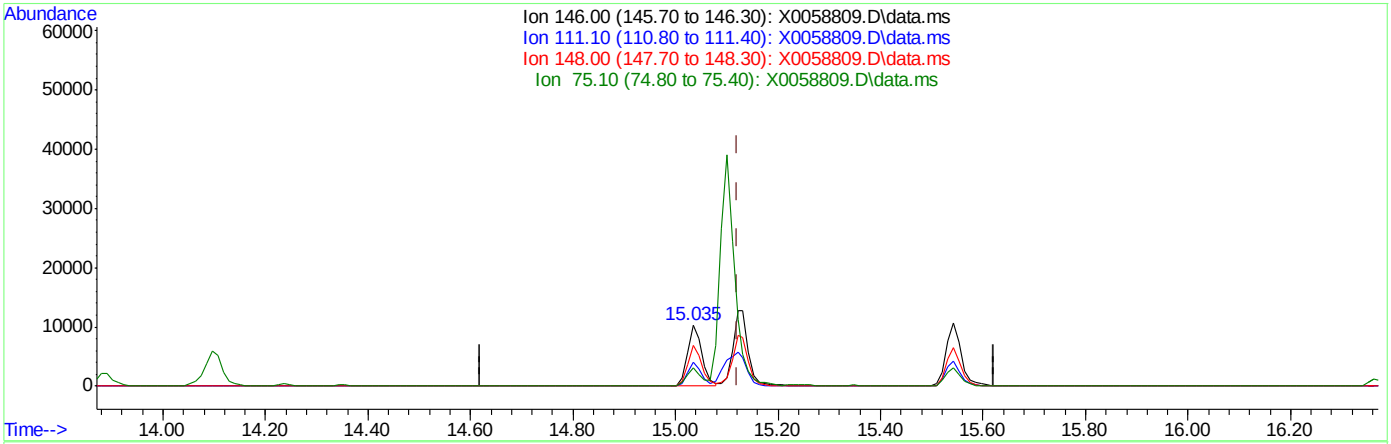
response 2724

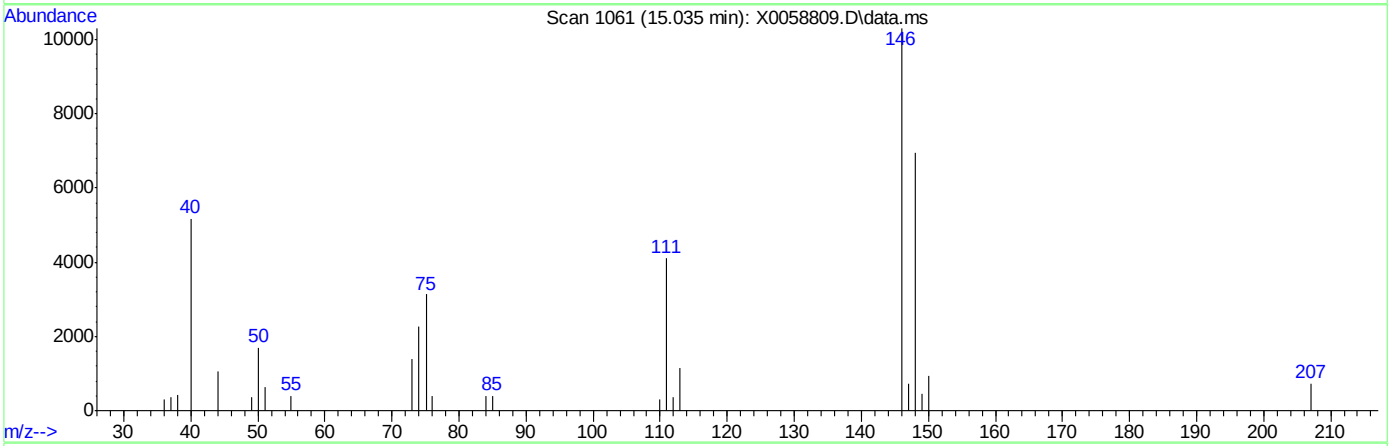
Ion	Exp%	Act%
41.10	100	100
69.10	97.90	84.90
100.10	39.20	35.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration





TIC: X0058809.D\data.ms

(95) 1,4-Dichlorobenzene

15.035min (-0.086) 1.35ug/L

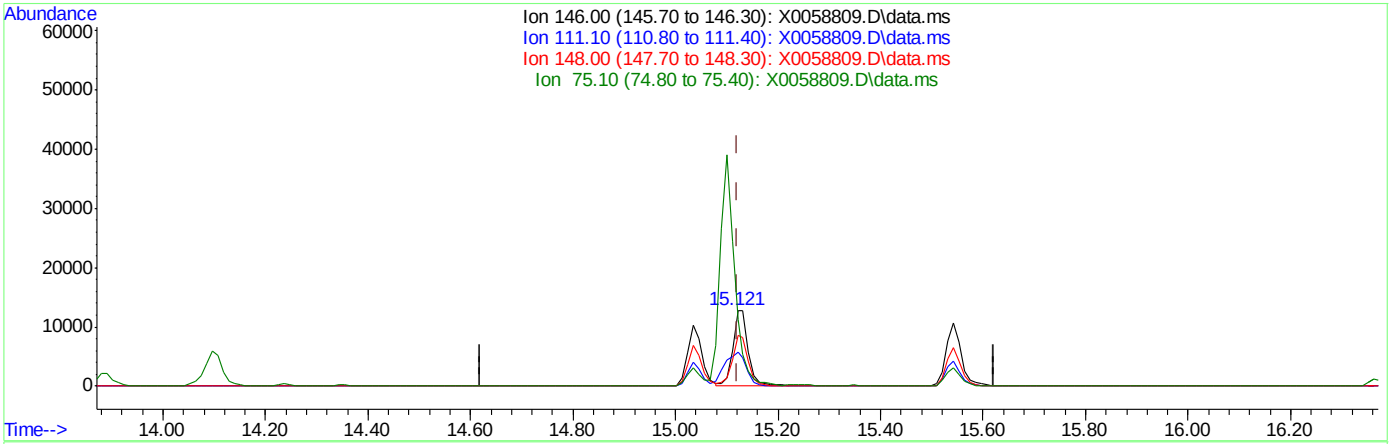
response 19676

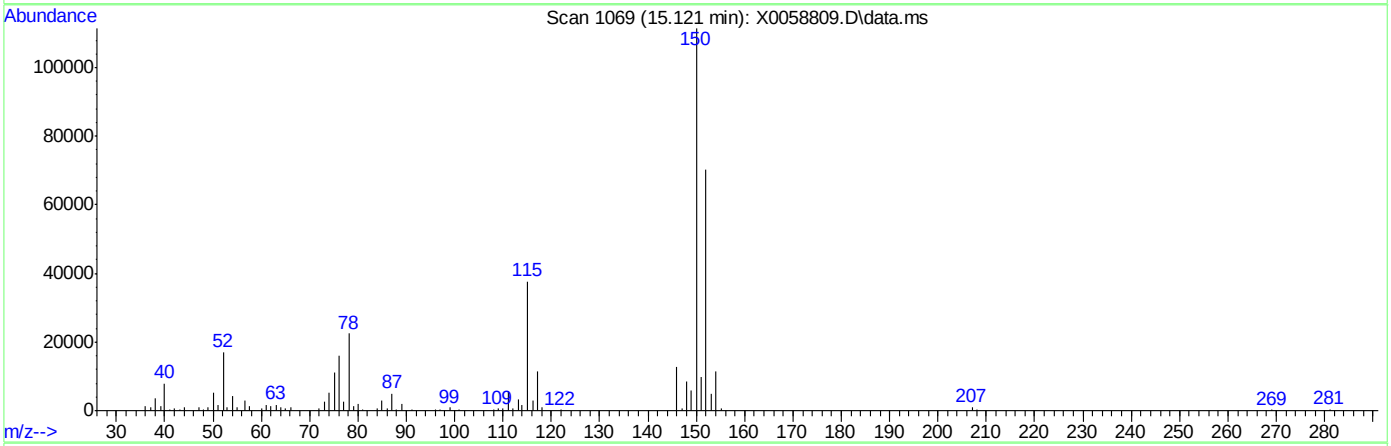
Ion	Exp%	Act%
146.00	100	100
111.10	37.80	40.01
148.00	64.30	67.36
75.10	30.00	30.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058809.D
Acq On : 4 Feb 2010 2:26 pm
Operator : jennl
Sample : ic435-2
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 09:08:49 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:08:39 2010
Response via : Initial Calibration





(95) 1,4-Dichlorobenzene

15.121min (+0.000) 1.89ug/L m

response 27630

Ion	Exp%	Act%
146.00	100	100
111.10	37.80	44.78
148.00	64.30	66.94
75.10	30.00	88.38#

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:07:26 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1421934	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1104436	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	633412	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	633412	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	30538	4.85	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 9.70%#			
44) 1,2-Dichloroethane-d4	9.208	65	32306	5.14	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 10.28%#			
61) Toluene-d8	11.096	98	81330	4.08	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 8.16%#			
82) 4-Bromofluorobenzene	13.880	95	28127	3.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 6.98%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	40840	4.96	ug/L	96
3) Chloromethane	4.180	50	19985	5.46	ug/L	97
4) Vinyl Chloride	4.385	62	18267	5.18	ug/L	97
5) Bromomethane	4.979	94	19330	6.35	ug/L	97
6) Chloroethane	5.119	64	11319	5.97	ug/L	96
7) Trichlorofluoromethane	5.453	101	41621	5.28	ug/L	98
8) Ethyl Ether	5.809	59	10352	4.94	ug/L	97
9) Acrolein	6.122	56	3779	20.82	ug/L	78
10) 1,1-Dichloroethene	6.187	61	33026	4.55	ug/L	98
11) Freon 113	6.101	101	29245	4.73	ug/L	97
12) Acetone	6.295	43	31023	26.44	ug/L	98
13) Iodomethane	6.468	142	46708	4.35	ug/L	99
14) Methyl Acetate	6.640	43	67579	22.65	ug/L	99
15) Carbon Disulfide	6.554	76	89928	4.74	ug/L	100
16) Methylene Chloride	6.845	49	34391	5.44	ug/L	93
17) Tert Butyl Alcohol	6.856	59	10084	32.62	ug/L	65
18) Allyl Chloride	6.662	41	23739	4.23	ug/L	99
19) Acetonitrile	6.748	41	6070	13.38	ug/L	71
20) trans-1,2-Dichloroethene	7.115	61	32218	4.45	ug/L	98
21) Acrylonitrile	7.201	53	29324	19.67	ug/L	96
22) Methyl Tert Butyl Ether	7.050	73	41779	3.31	ug/L	88
23) Hexane	7.298	57	19283	3.25	ug/L	90
24) 1,1-Dichloroethane	7.655	63	47101	5.03	ug/L	100
25) Vinyl Acetate	7.611	43	151155	18.70	ug/L	97
26) Di-isopropyl ether	7.536	45	47787	3.51	ug/L	85
27) Chloroprene	7.708	53	61902	4.03	ug/L	99
28) Ethyl tert-butyl ether	7.935	59	46733	3.39	ug/L	99
29) 2,2-Dichloropropane	8.280	77	34459	4.53	ug/L	96
30) cis-1,2-Dichloroethene	8.302	96	26946	4.35	ug/L	96
31) Ethyl Acetate	8.237	43	57680m	16.21	ug/L	
32) 2-Butanone	8.280	43	47357m	25.00	ug/L	
33) Propionitrile	8.453	54	11272	18.30	ug/L	97
34) Methacrylonitrile	8.820	41	14507m	3.61	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:07:26 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	16753	4.69	ug/L	96
36) Chloroform	8.604	83	51264	4.89	ug/kg	99
37) Tetrahydrofuran	8.820	42	6118	3.69	ug/L	87
38) 1,1,1-Trichloroethane	8.820	97	41225	4.58	ug/L	96
40) Cyclohexane	8.820	56	24634	3.09	ug/L	93
41) n-Butyl Alcohol	9.661	56	1397	18.94	ug/L	87
42) 1,1-Dichloropropene	8.971	75	24387	3.42	ug/L	97
43) Carbon Tetrachloride	8.960	117	35878	4.41	ug/L	99
45) Benzene	9.208	78	105646	4.74	ug/L	95
46) Isobutyl Alcohol	9.197	43	13727	36.89	ug/L	84
47) 1,2-Dichloroethane	9.284	62	35462	4.92	ug/L	100
48) tert-amyl methyl ether	9.197	73	43209	3.20	ug/L	83
49) Trichloroethene	9.856	95	23737	3.99	ug/L	96
50) Methylcyclohexane	10.007	83	24443	2.78	ug/L	92
51) Methyl Methacrylate	10.104	41	7455m	2.56	ug/L	
52) 1,2-Dichloropropane	10.158	63	24900	4.49	ug/L	94
53) Dibromomethane	10.309	93	18412	4.57	ug/kg	98
54) 1,4-Dioxane	10.233	88	2619	52.32	ug/L	94
55) Bromodichloromethane	10.406	83	35974	4.49	ug/L	99
56) 2-Nitropropane	10.686	41	22525	20.34	ug/L	88
57) 2-Chloroethyl vinyl ether	10.633	63	47549	14.72	ug/L	93
58) 4-Methyl-2-pentanone	10.945	43	71595	17.37	ug/L	98
59) cis-1,3-Dichloropropene	10.859	75	31471	3.52	ug/L	99
62) Toluene	11.172	91	93678	4.02	ug/L	100
63) Ethyl Methacrylate	11.355	69	13721	2.26	ug/L	97
64) trans-1,3-Dichloropropene	11.431	75	26027	3.56	ug/L	93
65) 1,1,2-Trichloroethane	11.636	83	22108	4.83	ug/L	92
66) Tetrachloroethene	11.733	166	28686	4.19	ug/L	98
67) 2-hexanone	11.798	43	39653	13.99	ug/L	92
68) 1,3-Dichloropropane	11.841	76	40842	4.59	ug/L	95
69) Dibromochloromethane	12.068	129	27356	4.28	ug/L	97
70) 1,2-Dibromoethane	12.251	107	22153	3.98	ug/L	98
71) 1-Chlorohexane	12.531	91	17922	2.45	ug/L	78
72) Chlorobenzene	12.693	112	83598	4.93	ug/L	97
73) 1,1,1,2-Tetrachloroethane	12.758	131	29540	4.66	ug/L	94
74) Ethylbenzene	12.715	91	114725	4.24	ug/L	99
75) m,p-Xylene	12.834	91	167873	7.95	ug/L	99
76) o-Xylene	13.276	91	70302	3.28	ug/L	97
77) Styrene	13.298	104	55758	3.18	ug/L	96
78) Bromoform	13.600	173	17485	3.95	ug/L	95
80) Isopropylbenzene	13.621	105	65430	2.91	ug/L	99
81) Cyclohexanone	13.880	55	1842	29.00	ug/L	95
83) Bromobenzene	14.085	156	35280	4.41	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	33978	4.65	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.074	53	6920	3.72	ug/L #	66
86) 1,2,3-Trichloropropane	14.096	110	9733	4.66	ug/L	95
87) n-Propylbenzene	14.053	91	102872	3.26	ug/L	94
88) 2-Chlorotoluene	14.236	91	94064	4.24	ug/L	97
89) 4-Chlorotoluene	14.355	91	74767	3.80	ug/L	99
90) 1,3,5-Trimethylbenzene	14.215	105	70733	3.23	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:07:26 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration

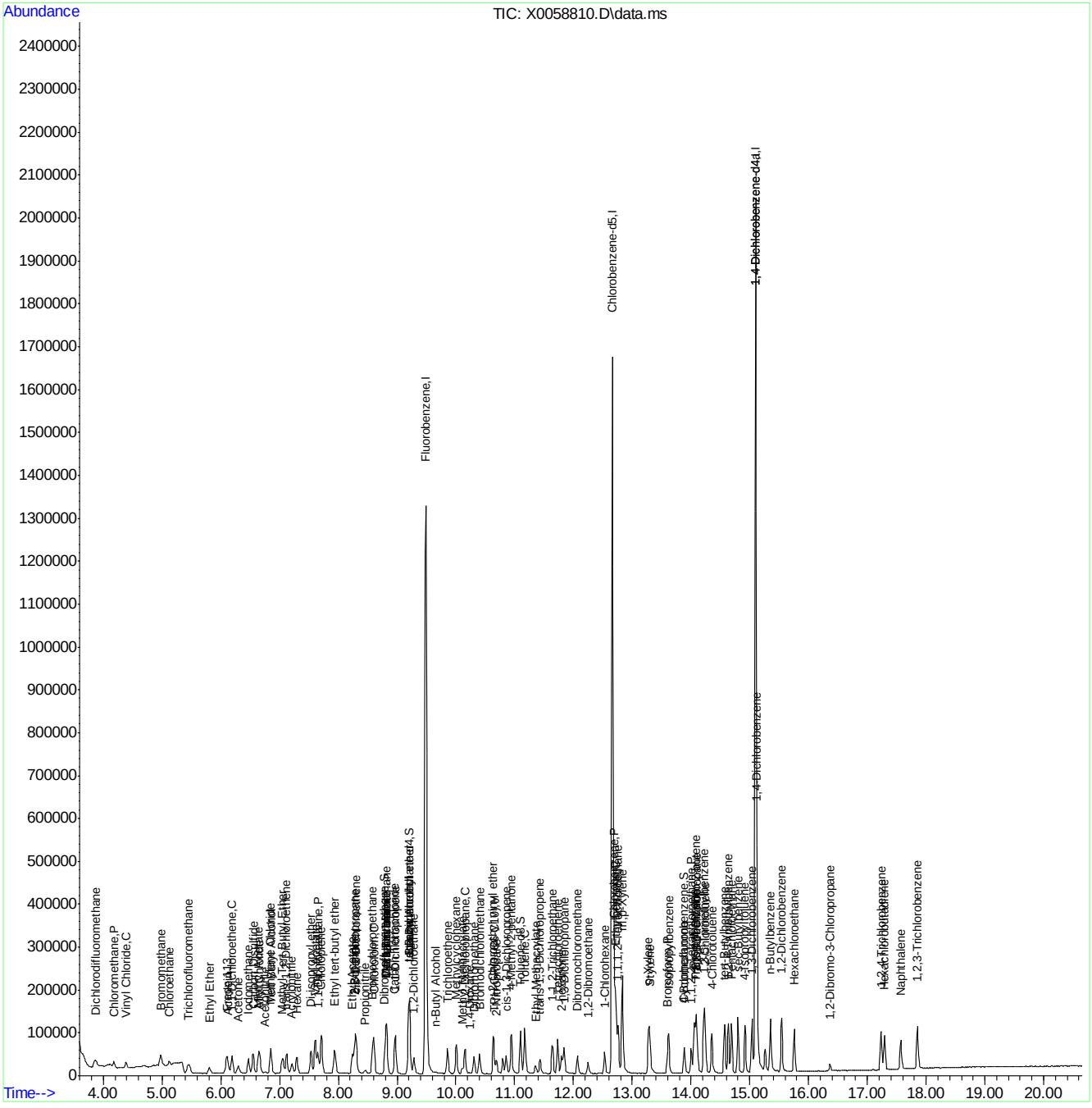
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.689	167	21879	4.28	ug/L	96
92)	sec-Butylbenzene	14.797	105	96616	3.33	ug/L	97
93)	1,3-Dichlorobenzene	15.035	146	63295	4.42	ug/L	98
94)	4-Isopropyltoluene	14.916	119	72209	3.17	ug/L	97
95)	1,4-Dichlorobenzene	15.121	146	78079	5.07	ug/L	90
96)	tert-Butylbenzene	14.571	91	39543	3.19	ug/L	91
97)	n-Butylbenzene	15.348	91	83568	3.59	ug/L	97
98)	1,2-Dichlorobenzene	15.542	146	65648	4.52	ug/L	97
99)	1,2,4-Trimethylbenzene	14.635	105	78946	3.47	ug/L	98
100)	Hexachloroethane	15.758	119	20557	4.35	ug/L	93
101)	1,2-Dibromo-3-Chloropr...	16.362	75	5242	4.12	ug/L	82
102)	1,2,4-Trichlorobenzene	17.236	180	41604	3.87	ug/L	97
103)	Hexachlorobutadiene	17.290	225	19654	4.31	ug/L	95
104)	Naphthalene	17.570	128	74450	3.11	ug/L	100
105)	1,2,3-Trichlorobenzene	17.851	180	42108	3.98	ug/L	97
107)	TPH-GRO (C6-C10)	10.659	TIC	6902303m	158.68	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

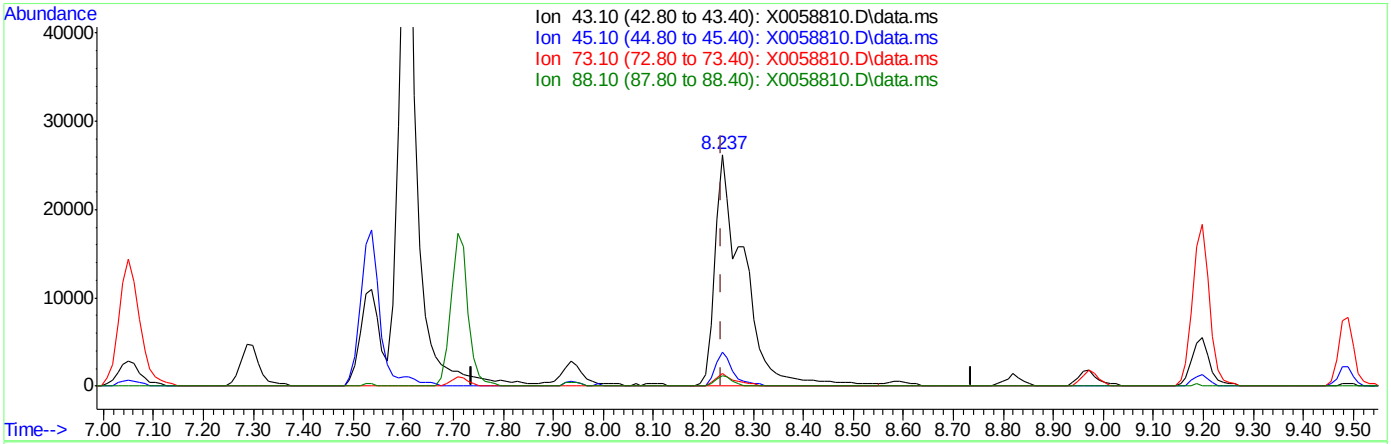
Quant Time: Feb 05 09:07:26 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration

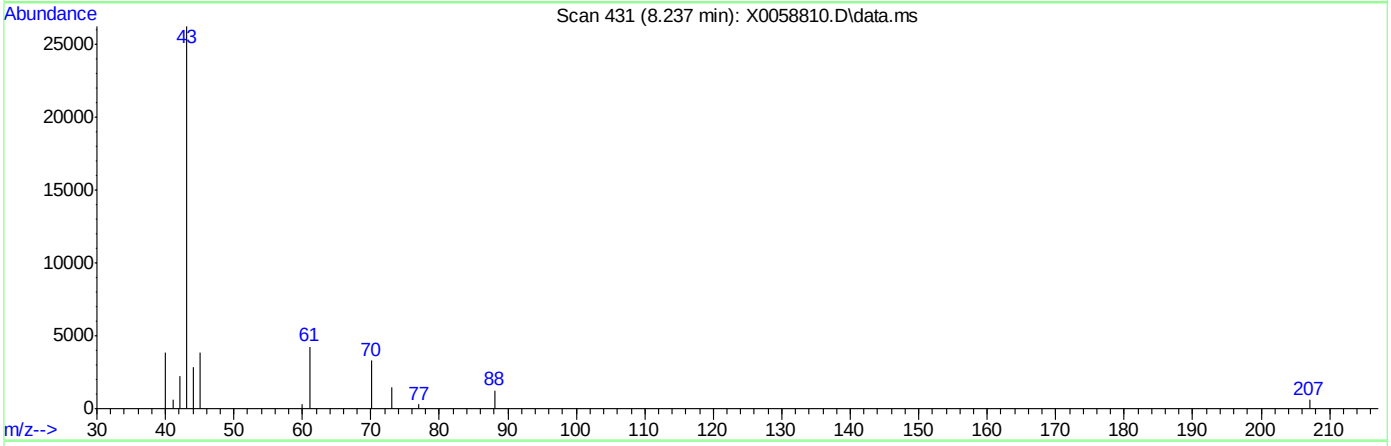


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration





TIC: X0058810.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 29.51ug/L

response 105032

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.54
73.10	5.80	5.55
88.10	5.20	4.70

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On    :  4 Feb 2010   2:55 pm
Operator  : jennl
Sample    : ic435-5
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration
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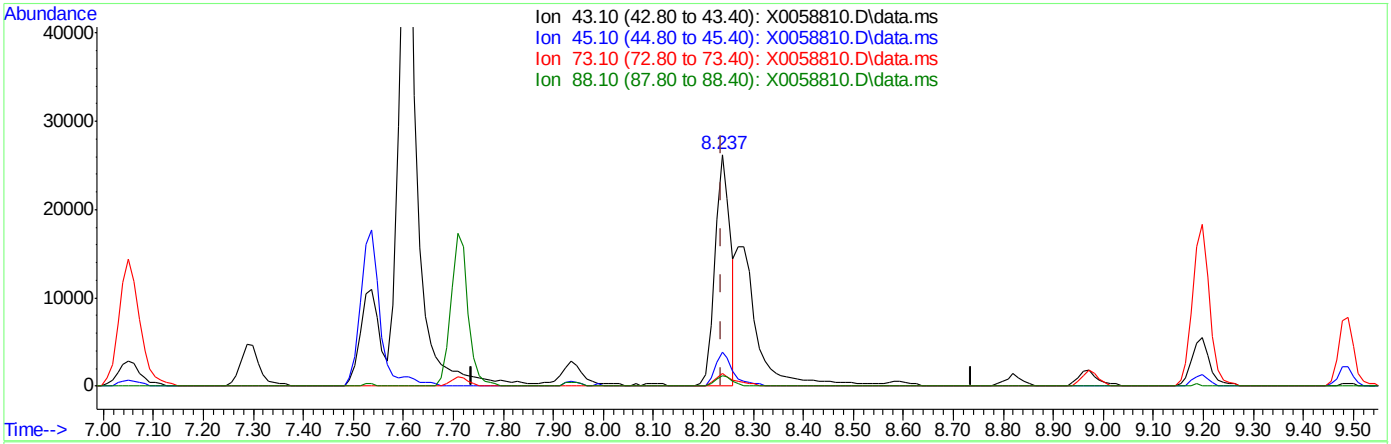
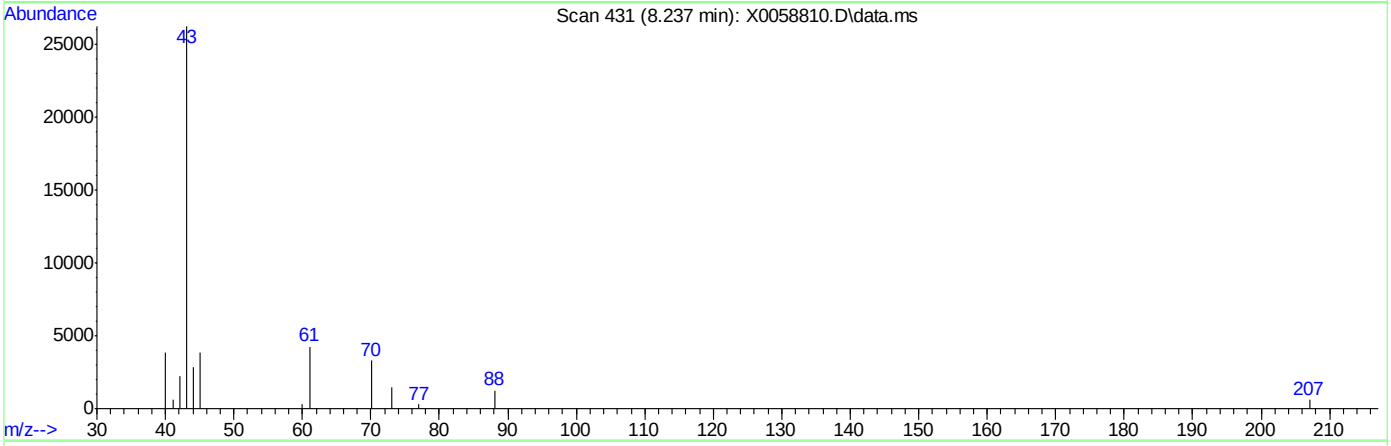




TIC: X0058810.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 16.21ug/L m

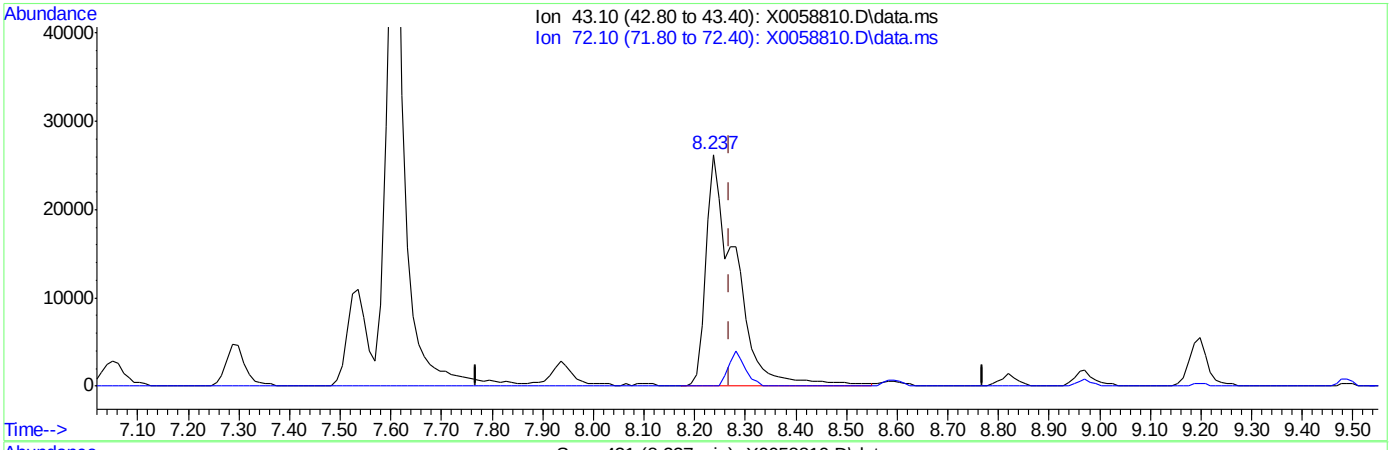
response 57680

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.54
73.10	5.80	5.55
88.10	5.20	4.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration



TIC: X0058810.D\data.ms

(32) 2-Butanone

8.237min (-0.032) 55.44ug/L

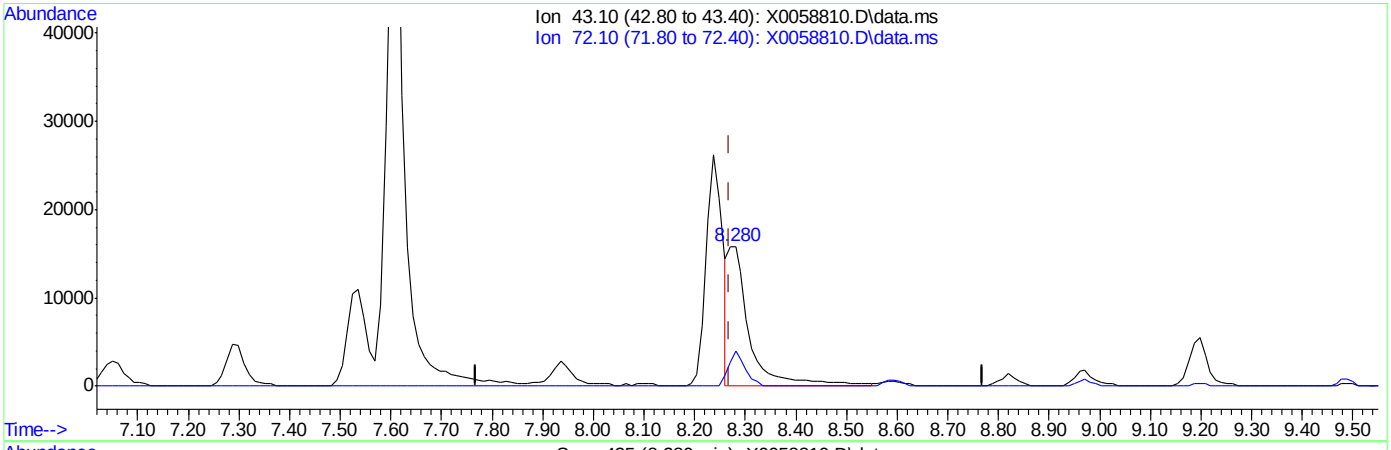
response 105032

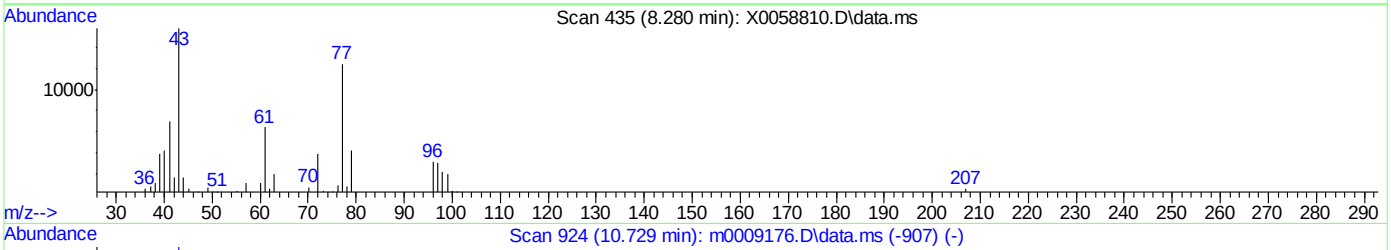
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

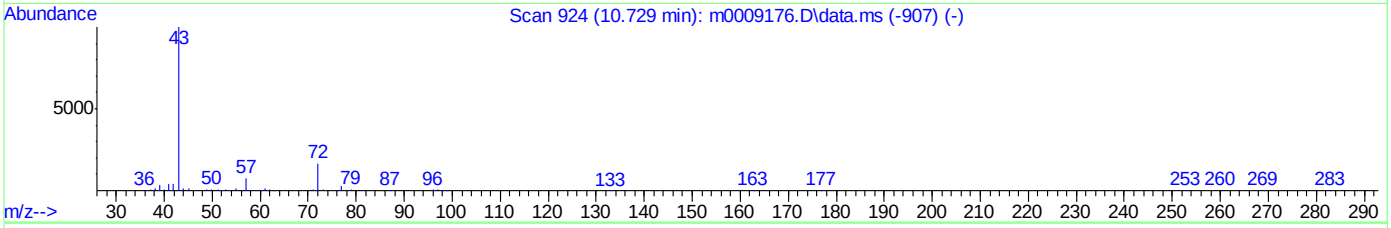
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration







TIC: X0058810.D\data.ms

(32) 2-Butanone

8.280min (+0.011) 25.00ug/L m

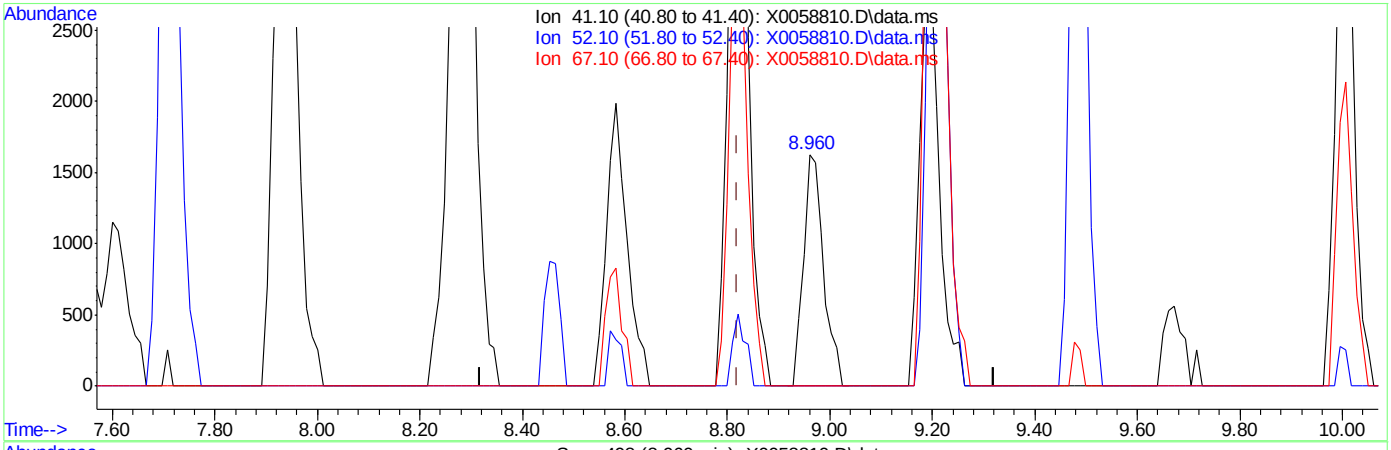
response 47357

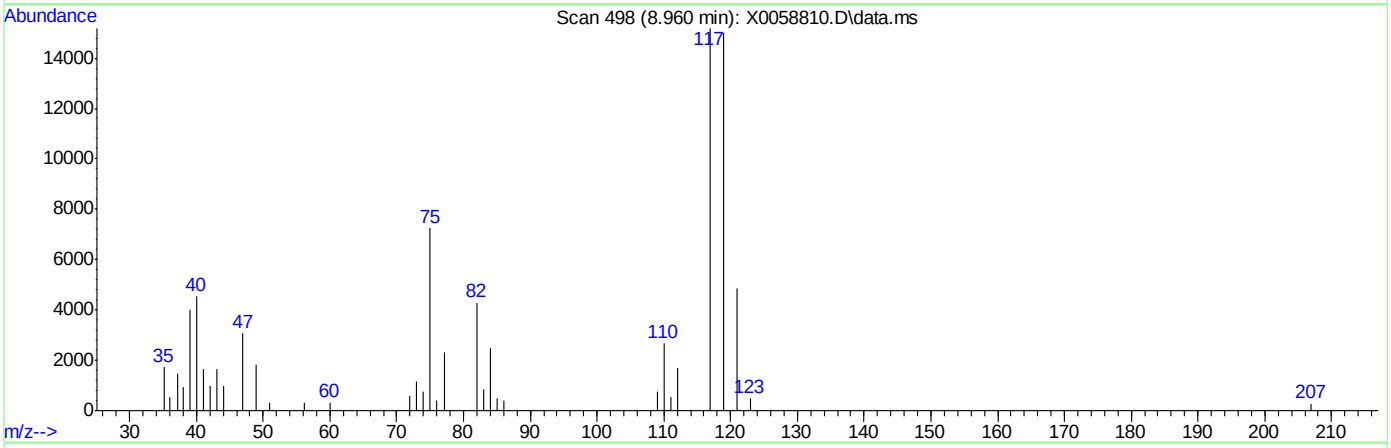
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	24.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration





TIC: X0058810.D\data.ms

(34) Methacrylonitrile

8.960min (+0.140) 1.11ug/L

response 4465

Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	16.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On    :  4 Feb 2010   2:55 pm
Operator  : jennl
Sample    : ic435-5
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration
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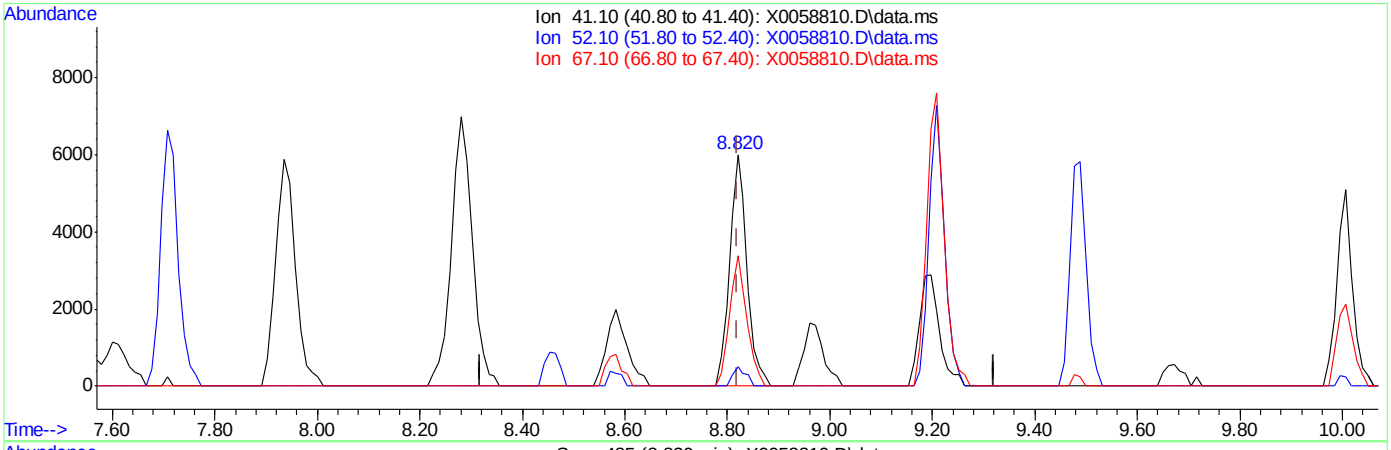
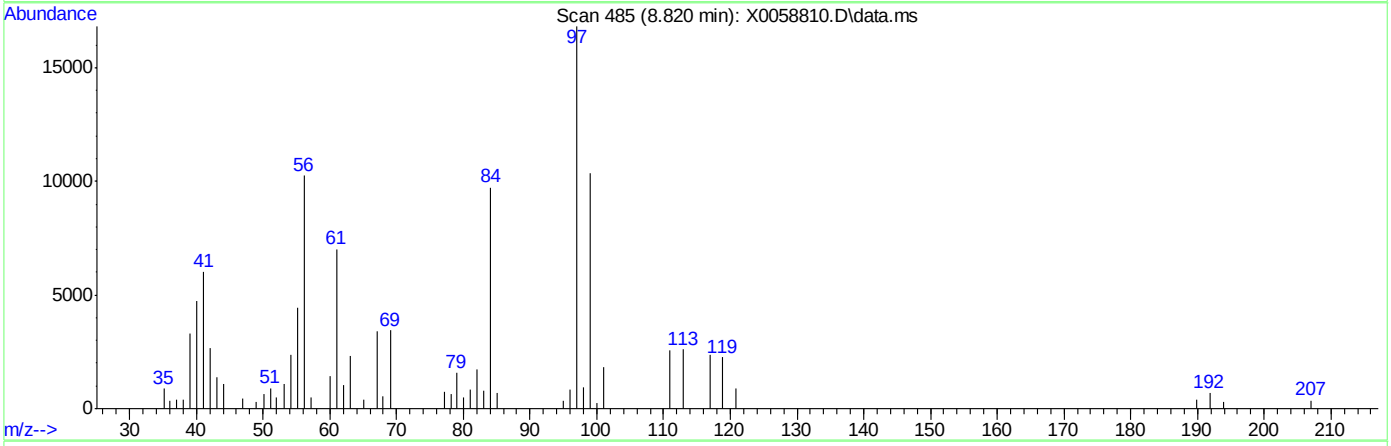




(34) Methacrylonitrile

8.820min (+0.000) 3.61ug/L m

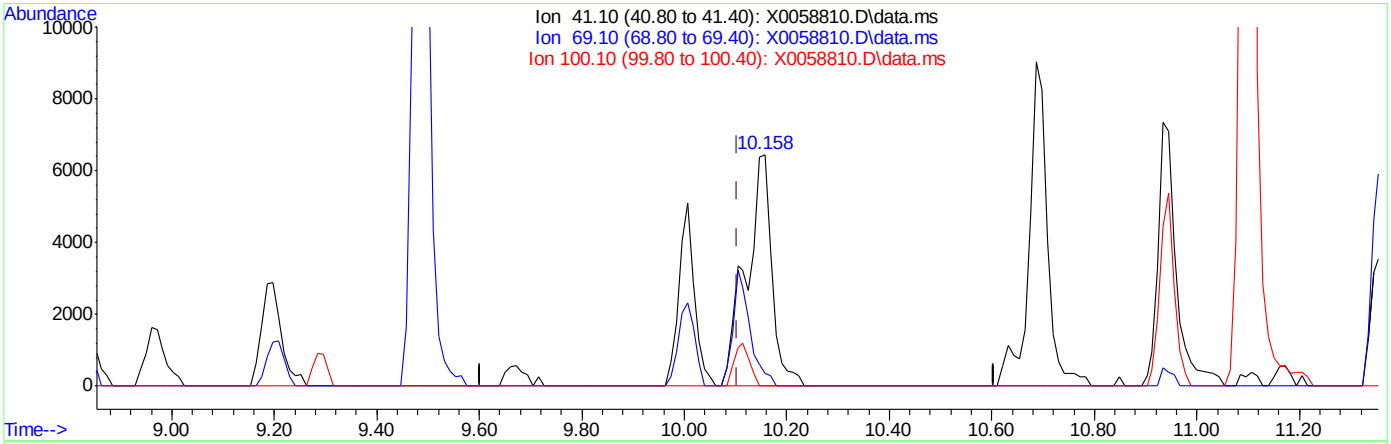
response 14507

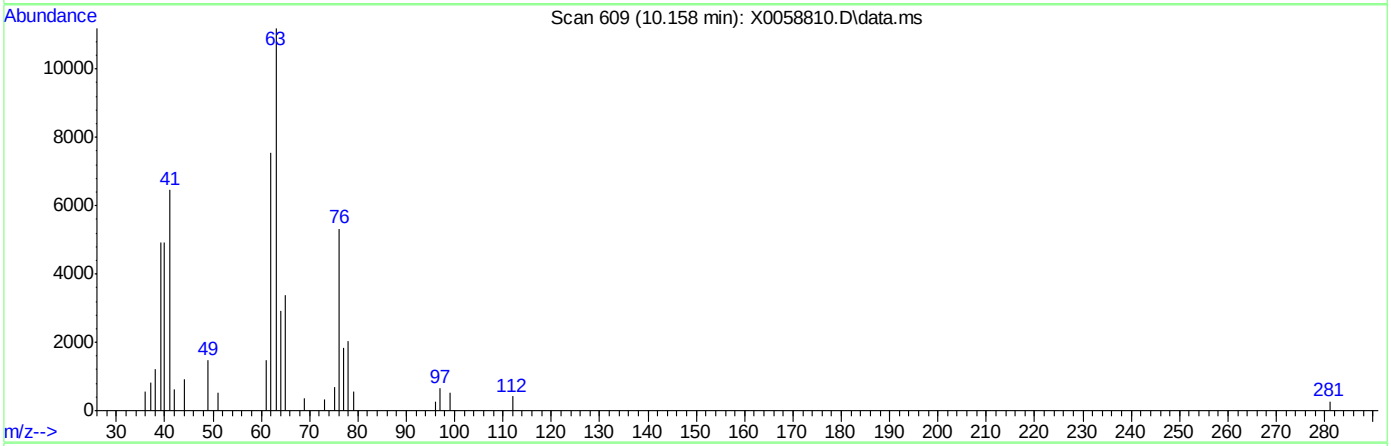
Ion	Exp%	Act%
41.10	100	100
52.10	3.60	8.38
67.10	16.10	56.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration





TIC: X0058810.D\data.ms

(51) Methyl Methacrylate

10.158min (+0.054) 7.79ug/L

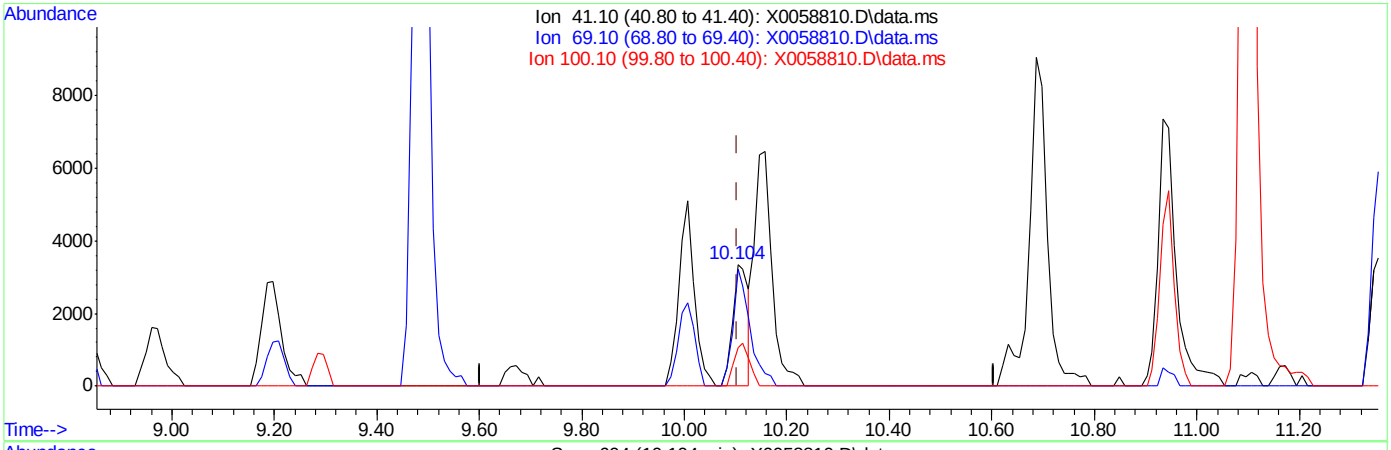
response 22687

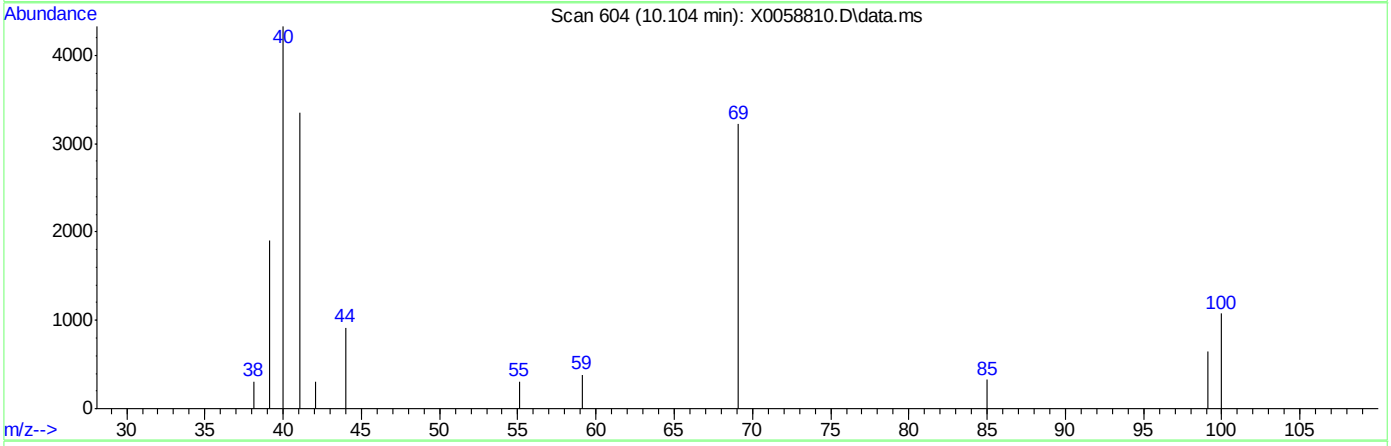
Ion	Exp%	Act%
41.10	100	100
69.10	97.90	5.47#
100.10	39.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058810.D
Acq On : 4 Feb 2010 2:55 pm
Operator : jennl
Sample : ic435-5
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 09:05:59 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:05:48 2010
Response via : Initial Calibration





TIC: X0058810.D\data.ms

(51) Methyl Methacrylate

10.104min (+0.000) 2.56ug/L m

response 7455

Ion	Exp%	Act%
41.10	100	100
69.10	97.90	96.18
100.10	39.20	32.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:42 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1494485	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1197543	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	693259	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	693259	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	132968	20.14	ug/L	0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 40.28%#			
44) 1,2-Dichloroethane-d4	9.208	65	138256	20.93	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 41.86%#			
61) Toluene-d8	11.096	98	423035	19.52	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 39.04%#			
82) 4-Bromofluorobenzene	13.880	95	167298	19.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 38.16%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	179681	21.11	ug/L	99
3) Chloromethane	4.180	50	78136	20.93	ug/L	98
4) Vinyl Chloride	4.396	62	74883	20.95	ug/L	98
5) Bromomethane	4.979	94	71022	22.29	ug/L	97
6) Chloroethane	5.119	64	43260	22.16	ug/L	98
7) Trichlorofluoromethane	5.475	101	177185	22.09	ug/L	100
8) Ethyl Ether	5.809	59	46842	21.62	ug/L	100
9) Acrolein	6.122	56	20295	104.19	ug/L	100
10) 1,1-Dichloroethene	6.198	61	153763	20.11	ug/L	99
11) Freon 113	6.112	101	133466	20.68	ug/L	98
12) Acetone	6.295	43	142030	115.23	ug/L	99
13) Iodomethane	6.468	142	216301	19.39	ug/L	99
14) Methyl Acetate	6.640	43	346520	108.70	ug/L	99
15) Carbon Disulfide	6.554	76	400297	20.17	ug/L	99
16) Methylene Chloride	6.856	49	139485	21.09	ug/L	98
17) Tert Butyl Alcohol	6.856	59	69186	207.82	ug/L	89
18) Allyl Chloride	6.662	41	116224	19.50	ug/L	96
19) Acetonitrile	6.759	41	24930	51.97	ug/L	95
20) trans-1,2-Dichloroethene	7.126	61	152391	20.13	ug/L	99
21) Acrylonitrile	7.201	53	169573	107.34	ug/L	99
22) Methyl Tert Butyl Ether	7.050	73	252204	18.89	ug/L	97
23) Hexane	7.298	57	122739	19.42	ug/L	99
24) 1,1-Dichloroethane	7.654	63	203100	20.75	ug/L	99
25) Vinyl Acetate	7.601	43	905331	104.54	ug/L	99
26) Di-isopropyl ether	7.536	45	272549	18.88	ug/L	96
27) Chloroprene	7.708	53	321977	19.74	ug/L	98
28) Ethyl tert-butyl ether	7.935	59	274543	18.78	ug/L	99
29) 2,2-Dichloropropane	8.280	77	159714	20.12	ug/L	99
30) cis-1,2-Dichloroethene	8.302	96	131577	20.31	ug/L	99
31) Ethyl Acetate	8.237	43	396677m	102.58	ug/L	
32) 2-Butanone	8.280	43	235004m	117.35	ug/L	
33) Propionitrile	8.453	54	69808	105.51	ug/L	97
34) Methacrylonitrile	8.820	41	87147	20.58	ug/L	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:42 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	75695	20.16	ug/L	97
36) Chloroform	8.604	83	226628	20.76	ug/kg	99
37) Tetrahydrofuran	8.820	42	36242	20.78	ug/L	96
38) 1,1,1-Trichloroethane	8.820	97	188134	20.03	ug/L	98
40) Cyclohexane	8.820	56	163733	19.21	ug/L	97
41) n-Butyl Alcohol	9.661	56	14814	184.76	ug/L	98
42) 1,1-Dichloropropene	8.971	75	146546	19.49	ug/L	98
43) Carbon Tetrachloride	8.960	117	168831	19.80	ug/L	99
45) Benzene	9.208	78	483455	20.49	ug/L	99
46) Isobutyl Alcohol	9.197	43	76058	190.90	ug/L	93
47) 1,2-Dichloroethane	9.284	62	157055	20.84	ug/L	100
48) tert-amyl methyl ether	9.197	73	271480	18.80	ug/L	94
49) Trichloroethene	9.856	95	118731	19.02	ug/L	98
50) Methylcyclohexane	10.007	83	173224	18.62	ug/L	97
51) Methyl Methacrylate	10.104	41	56642	17.67	ug/L	99
52) 1,2-Dichloropropane	10.158	63	117803	20.14	ug/L	99
53) Dibromomethane	10.309	93	87474	20.76	ug/kg	96
54) 1,4-Dioxane	10.233	88	20359	367.49	ug/L	96
55) Bromodichloromethane	10.406	83	165599	19.88	ug/L	100
56) 2-Nitropropane	10.686	41	123787	105.53	ug/L	97
57) 2-Chloroethyl vinyl ether	10.632	63	346374	98.77	ug/L	97
58) 4-Methyl-2-pentanone	10.935	43	474038	106.41	ug/L	99
59) cis-1,3-Dichloropropene	10.859	75	177316	18.85	ug/L	97
62) Toluene	11.172	91	496889	19.66	ug/L	100
63) Ethyl Methacrylate	11.355	69	118459	17.28	ug/L	98
64) trans-1,3-Dichloropropene	11.431	75	150869	18.81	ug/L	99
65) 1,1,2-Trichloroethane	11.636	83	102607	20.69	ug/L	98
66) Tetrachloroethene	11.733	166	141374	19.16	ug/L	99
67) 2-hexanone	11.787	43	330224	103.38	ug/L	99
68) 1,3-Dichloropropane	11.841	76	200504	20.68	ug/L	98
69) Dibromochloromethane	12.067	129	135251	19.52	ug/L	99
70) 1,2-Dibromoethane	12.251	107	118321	19.36	ug/L	97
71) 1-Chlorohexane	12.531	91	140939	17.39	ug/L	93
72) Chlorobenzene	12.693	112	365482	19.89	ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.758	131	133225	19.56	ug/L	98
74) Ethylbenzene	12.715	91	575594	19.51	ug/L	98
75) m,p-Xylene	12.834	91	900608	38.82	ug/L	99
76) o-Xylene	13.276	91	436974	18.54	ug/L	98
77) Styrene	13.297	104	359149	18.74	ug/L	99
78) Bromoform	13.600	173	92352	19.26	ug/L	98
80) Isopropylbenzene	13.621	105	458471	18.57	ug/L	99
81) Cyclohexanone	13.880	55	14361	201.44	ug/L	95
83) Bromobenzene	14.085	156	172260	20.00	ug/L	98
84) 1,1,2,2-Tetrachloroethane	13.999	83	170588	21.21	ug/L	98
85) Trans-1,4-Dichloro-2-b...	14.064	53	42703	20.37	ug/L	95
86) 1,2,3-Trichloropropane	14.096	110	49307	21.62	ug/L	98
87) n-Propylbenzene	14.053	91	667452	19.30	ug/L	99
88) 2-Chlorotoluene	14.236	91	486601	20.15	ug/L	98
89) 4-Chlorotoluene	14.344	91	419302	19.73	ug/L	98
90) 1,3,5-Trimethylbenzene	14.215	105	456900	19.12	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:42 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Pentachloroethane	14.689	167	105961	19.13	ug/L	99
92) sec-Butylbenzene	14.797	105	606543	19.07	ug/L	99
93) 1,3-Dichlorobenzene	15.035	146	305149	19.78	ug/L	99
94) 4-Isopropyltoluene	14.916	119	467206	18.82	ug/L	99
95) 1,4-Dichlorobenzene	15.121	146	335134	20.18	ug/L	98
96) tert-Butylbenzene	14.571	91	258070	18.94	ug/L	99
97) n-Butylbenzene	15.348	91	497859	19.44	ug/L	99
98) 1,2-Dichlorobenzene	15.542	146	312752	19.94	ug/L	98
99) 1,2,4-Trimethylbenzene	14.635	105	478365	19.33	ug/L	99
100) Hexachloroethane	15.758	119	98315	19.35	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	16.362	75	29328	20.89	ug/L	91
102) 1,2,4-Trichlorobenzene	17.225	180	220207	19.03	ug/L	99
103) Hexachlorobutadiene	17.290	225	95759	19.55	ug/L	98
104) Naphthalene	17.559	128	516462	19.53	ug/L	100
105) 1,2,3-Trichlorobenzene	17.851	180	225832	19.68	ug/L	98
107) TPH-GRO (C6-C10)	10.659	TIC	42614628m	947.18	ug/kg	

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

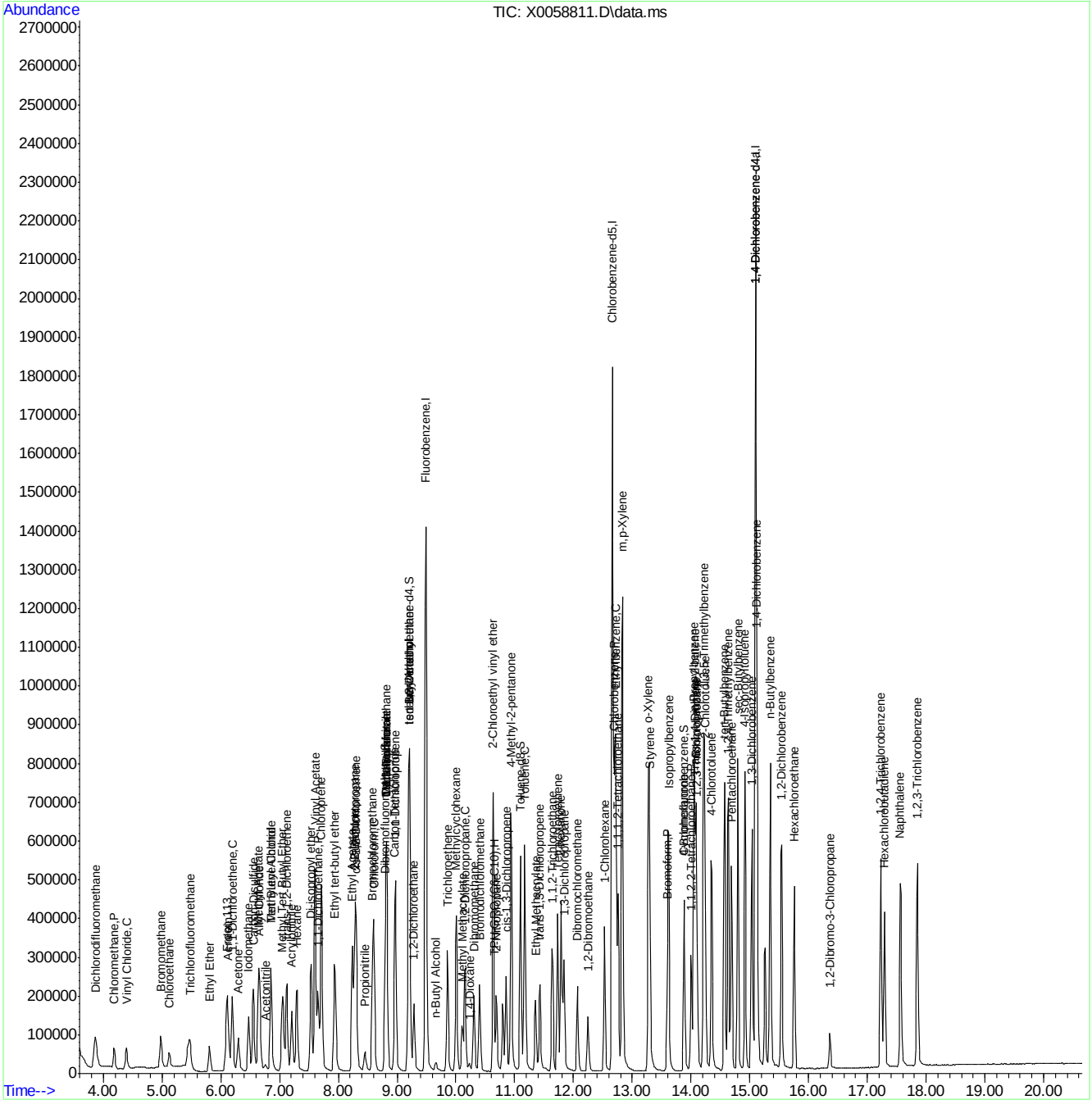
6.6.3

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:42 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration

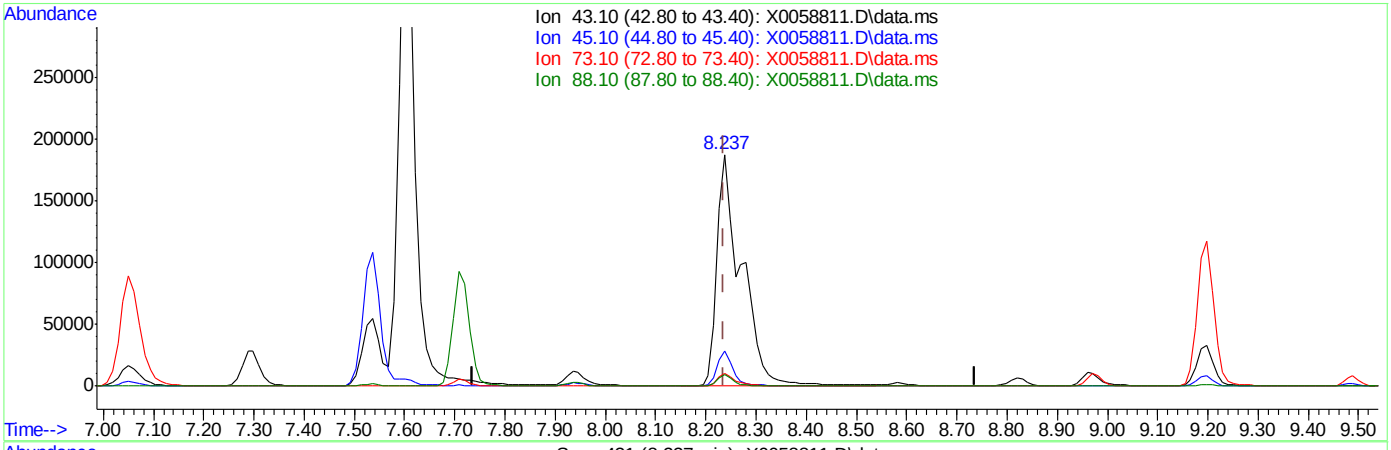


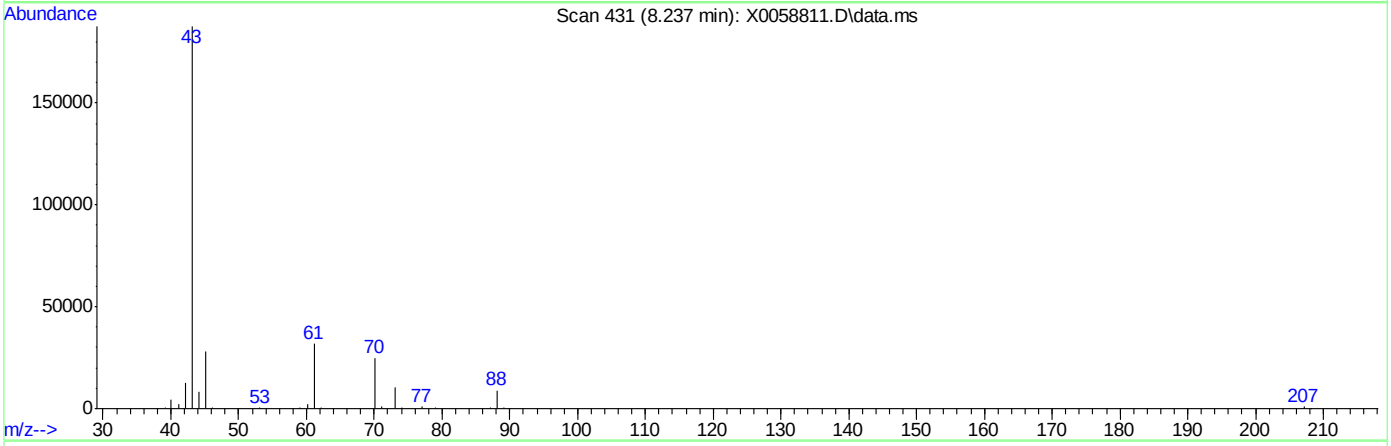
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:07 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration





TIC: X0058811.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 161.97ug/L

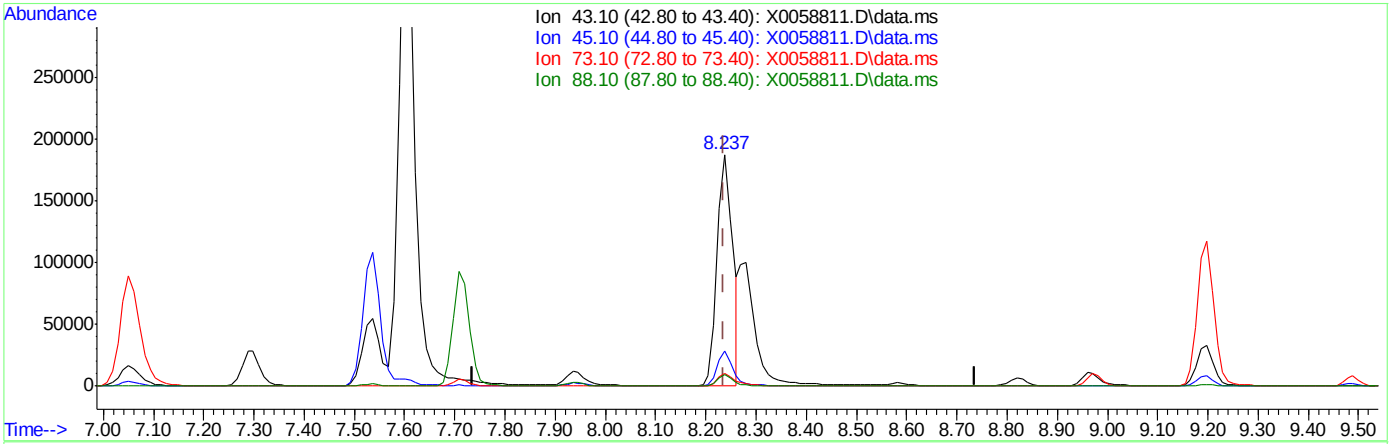
response 626364

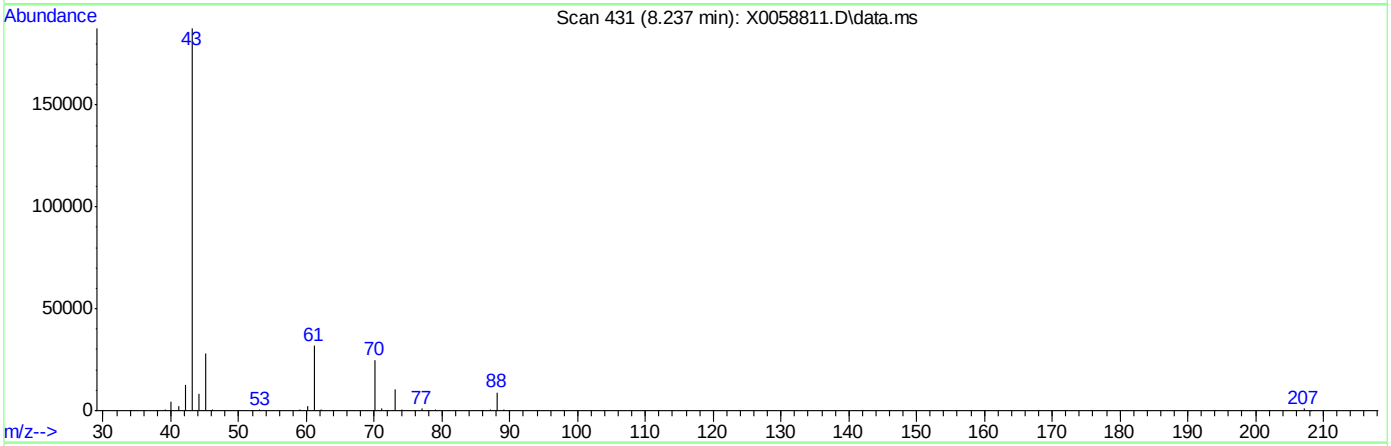
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.99
73.10	5.80	5.47
88.10	5.20	4.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:07 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration





TIC: X0058811.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 102.58ug/L m

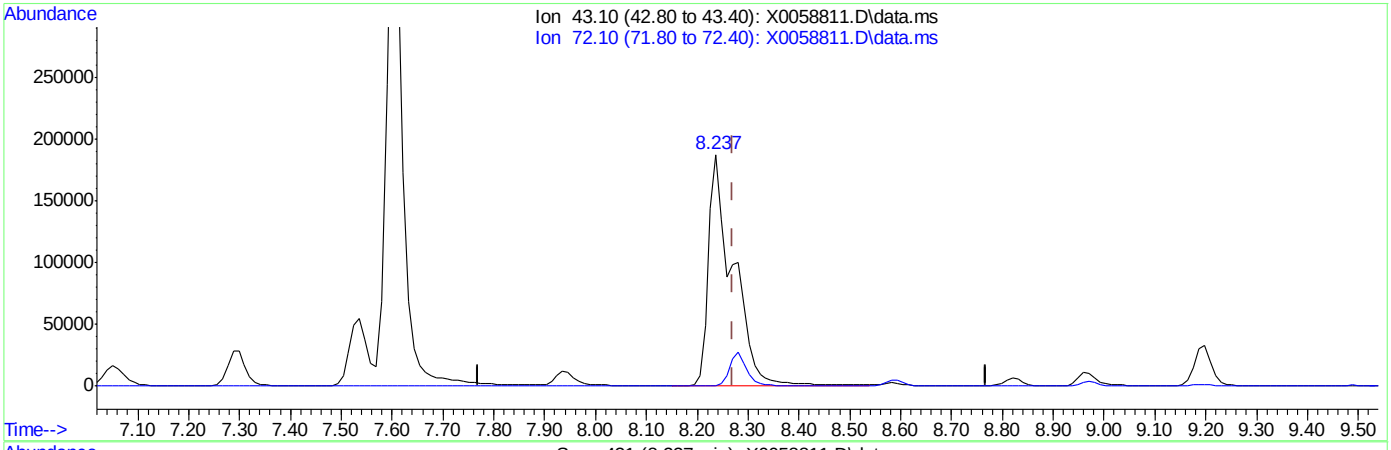
response 396677

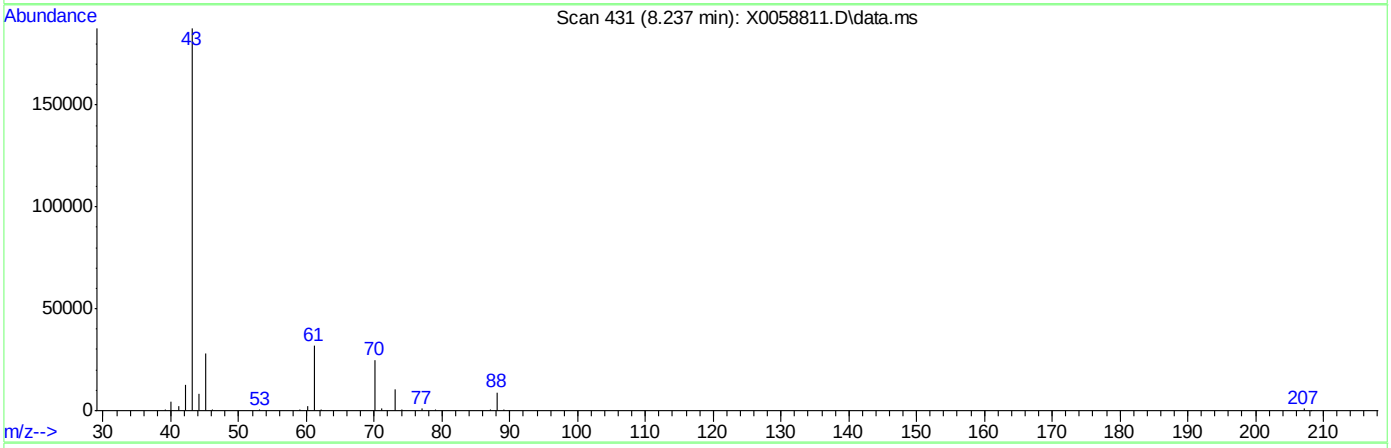
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.96
73.10	5.80	5.46
88.10	5.20	4.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:07 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration





TIC: X0058811.D\data.ms

(32) 2-Butanone

8.237min (-0.032) 312.78ug/L

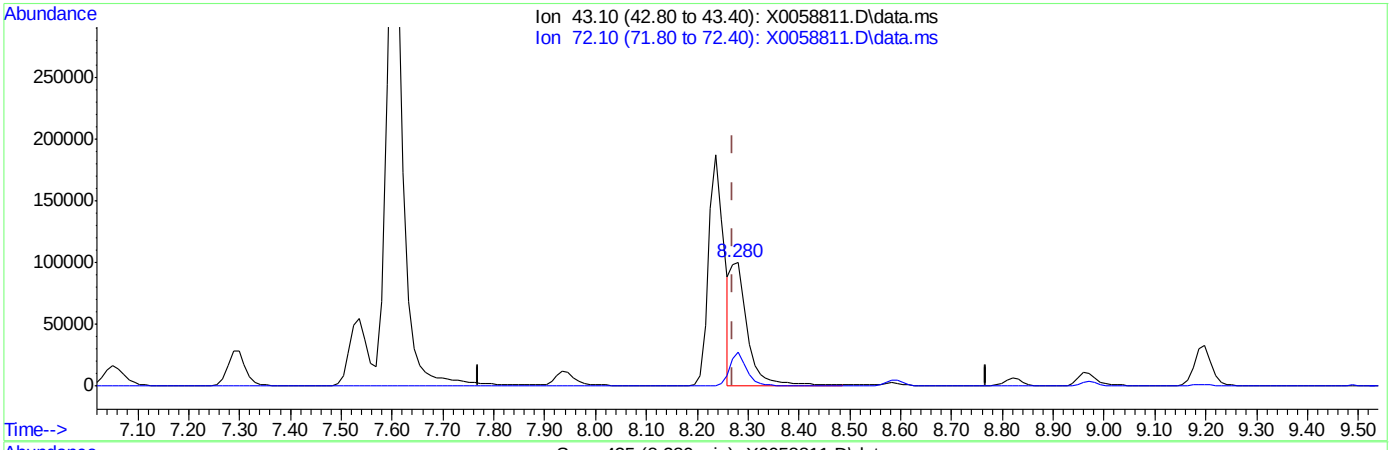
response 626364

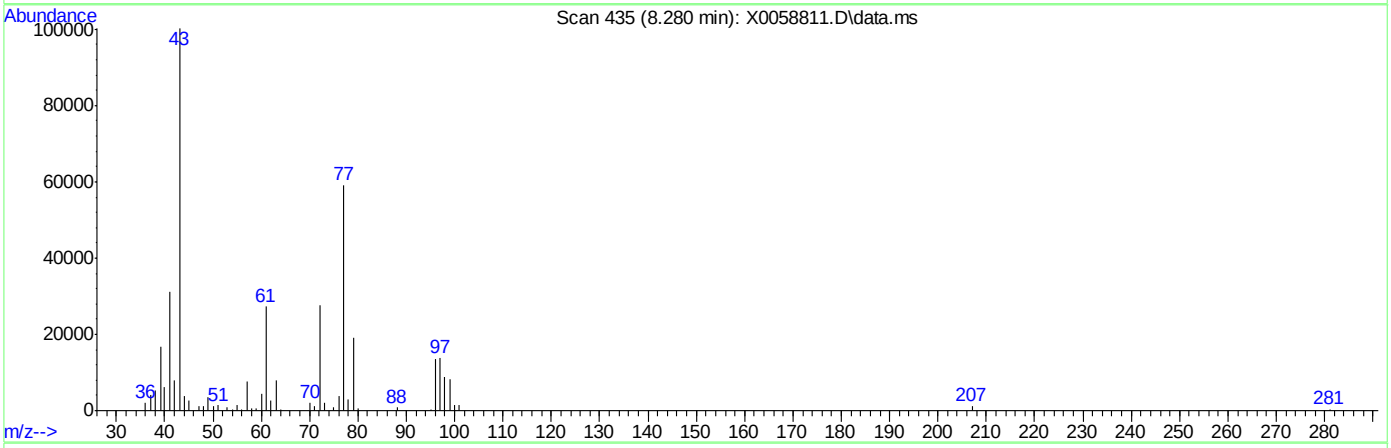
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058811.D
Acq On : 4 Feb 2010 3:24 pm
Operator : jennl
Sample : ic435-20
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 05 09:04:07 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:03:47 2010
Response via : Initial Calibration





TIC: X0058811.D\data.ms

(32) 2-Butanone

8.280min (+0.011) 117.35ug/L m

response 235004

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	27.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:03:10 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1561909	50.00	ug/L	0.02
60) Chlorobenzene-d5	12.661	117	1254429	50.00	ug/L	0.02
79) 1,4-Dichlorobenzene-d4	15.099	152	736280	50.00	ug/L	0.02
106) 1,4-Dichlorobenzene-d4a	15.099	152	736280	50.00	ug/L	0.02
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	275953	37.94	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 75.88%#			
44) 1,2-Dichloroethane-d4	9.208	65	276170	38.30	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 76.60%			
61) Toluene-d8	11.096	98	908136	43.37	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 86.74%#			
82) 4-Bromofluorobenzene	13.880	95	372575	40.73	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 81.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	355889	43.63	ug/L	99
3) Chloromethane	4.191	50	156102	35.62	ug/L	100
4) Vinyl Chloride	4.396	62	149393	35.97	ug/L	98
5) Bromomethane	4.979	94	133181	32.42	ug/L	98
6) Chloroethane	5.119	64	81596	36.24	ug/L	98
7) Trichlorofluoromethane	5.475	101	335280	37.15	ug/L	98
8) Ethyl Ether	5.809	59	90592	38.43	ug/L	99
9) Acrolein	6.122	56	40717	256.01	ug/L	99
10) 1,1-Dichloroethene	6.198	61	319605	42.18	ug/L	98
11) Freon 113	6.112	101	269797	44.68	ug/L	99
12) Acetone	6.295	43	257648	267.90	ug/L	97
13) Iodomethane	6.468	142	466388	43.95	ug/L	99
14) Methyl Acetate	6.640	43	666355	244.10	ug/L	98
15) Carbon Disulfide	6.554	76	829759	47.25	ug/L	99
16) Methylene Chloride	6.856	49	276440	41.23	ug/L	98
17) Tert Butyl Alcohol	6.856	59	139172	497.09	ug/L	98
18) Allyl Chloride	6.662	41	249110	45.55	ug/L	95
19) Acetonitrile	6.759	41	50138	121.98	ug/L	88
20) trans-1,2-Dichloroethene	7.126	61	316436	40.91	ug/L	97
21) Acrylonitrile	7.201	53	330203	244.55	ug/L	99
22) Methyl Tert Butyl Ether	7.050	73	558082	41.87	ug/L	98
23) Hexane	7.298	57	264238	47.68	ug/L	96
24) 1,1-Dichloroethane	7.655	63	409129	39.08	ug/L	99
25) Vinyl Acetate	7.601	43	1810086	256.46	ug/L	98
26) Di-isopropyl ether	7.536	45	603358	43.37	ug/L	95
27) Chloroprene	7.708	53	681761	42.43	ug/L	98
28) Ethyl tert-butyl ether	7.935	59	610997	39.77	ug/L	97
29) 2,2-Dichloropropane	8.280	77	331882	42.83	ug/L	100
30) cis-1,2-Dichloroethene	8.302	96	270802	40.68	ug/L	99
31) Ethyl Acetate	8.237	43	808302m	273.39	ug/L	
32) 2-Butanone	8.270	43	418586m	317.40	ug/L	
33) Propionitrile	8.453	54	138290	268.60	ug/L	98
34) Methacrylonitrile	8.820	41	177047	45.32	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:03:10 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	156990	39.22	ug/L	95
36) Chloroform	8.604	83	456320	38.76	ug/kg	99
37) Tetrahydrofuran	8.820	42	72916	47.46	ug/L	99
38) 1,1,1-Trichloroethane	8.820	97	392613	38.98	ug/L	100
40) Cyclohexane	8.820	56	356240	44.80	ug/L	97
41) n-Butyl Alcohol	9.651	56	33518	474.47	ug/L	90
42) 1,1-Dichloropropene	8.971	75	314314	39.14	ug/L	98
43) Carbon Tetrachloride	8.960	117	356462	37.70	ug/L	97
45) Benzene	9.208	78	986412	42.63	ug/L	98
46) Isobutyl Alcohol	9.187	43	166560	446.56	ug/L	100
47) 1,2-Dichloroethane	9.284	62	315051	38.48	ug/L	98
48) tert-amyl methyl ether	9.197	73	603555	40.77	ug/L	97
49) Trichloroethene	9.856	95	260929	40.66	ug/L	96
50) Methylcyclohexane	10.007	83	388948	38.40	ug/L	97
51) Methyl Methacrylate	10.104	41	134022m	42.06	ug/L	
52) 1,2-Dichloropropane	10.147	63	244470	40.96	ug/L	97
53) Dibromomethane	10.298	93	176127	40.10	ug/kg	98
54) 1,4-Dioxane	10.222	88	46319	1075.27	ug/L	93
55) Bromodichloromethane	10.406	83	348203	38.91	ug/L	100
56) 2-Nitropropane	10.686	41	245187	219.90	ug/L	99
57) 2-Chloroethyl vinyl ether	10.632	63	732983	244.21	ug/L	96
58) 4-Methyl-2-pentanone	10.935	43	931166	281.40	ug/L	97
59) cis-1,3-Dichloropropene	10.848	75	393333	37.94	ug/L	97
62) Toluene	11.172	91	1059226	42.03	ug/L	100
63) Ethyl Methacrylate	11.355	69	287218	47.77	ug/L	98
64) trans-1,3-Dichloropropene	11.431	75	336051	41.50	ug/L	99
65) 1,1,2-Trichloroethane	11.636	83	207801	44.55	ug/L	99
66) Tetrachloroethene	11.733	166	309206	38.96	ug/L	97
67) 2-hexanone	11.787	43	669196	303.57	ug/L	99
68) 1,3-Dichloropropane	11.830	76	406261	44.81	ug/L	96
69) Dibromochloromethane	12.068	129	290347	42.61	ug/L	99
70) 1,2-Dibromoethane	12.240	107	256030	44.93	ug/L	95
71) 1-Chlorohexane	12.531	91	339578	40.80	ug/L	99
72) Chlorobenzene	12.693	112	769934	40.83	ug/L	96
73) 1,1,1,2-Tetrachloroethane	12.758	131	285369	40.41	ug/L	99
74) Ethylbenzene	12.715	91	1236071	44.59	ug/L	100
75) m,p-Xylene	12.823	91	1944084	87.16	ug/L	98
76) o-Xylene	13.276	91	987624	41.59	ug/L	99
77) Styrene	13.298	104	803207	41.65	ug/L	100
78) Bromoform	13.600	173	200919	44.05	ug/L	97
80) Isopropylbenzene	13.610	105	1048594	41.81	ug/L	99
81) Cyclohexanone	13.880	55	30286	248.10	ug/L #	69
83) Bromobenzene	14.085	156	365981	44.66	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	341666	46.66	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	89057	63.11	ug/L #	89
86) 1,2,3-Trichloropropane	14.096	110	96880	46.86	ug/L	98
87) n-Propylbenzene	14.053	91	1469178	43.83	ug/L	99
88) 2-Chlorotoluene	14.236	91	1026114	46.02	ug/L	99
89) 4-Chlorotoluene	14.344	91	902829	41.86	ug/L	97
90) 1,3,5-Trimethylbenzene	14.215	105	1015009	41.99	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:03:10 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration

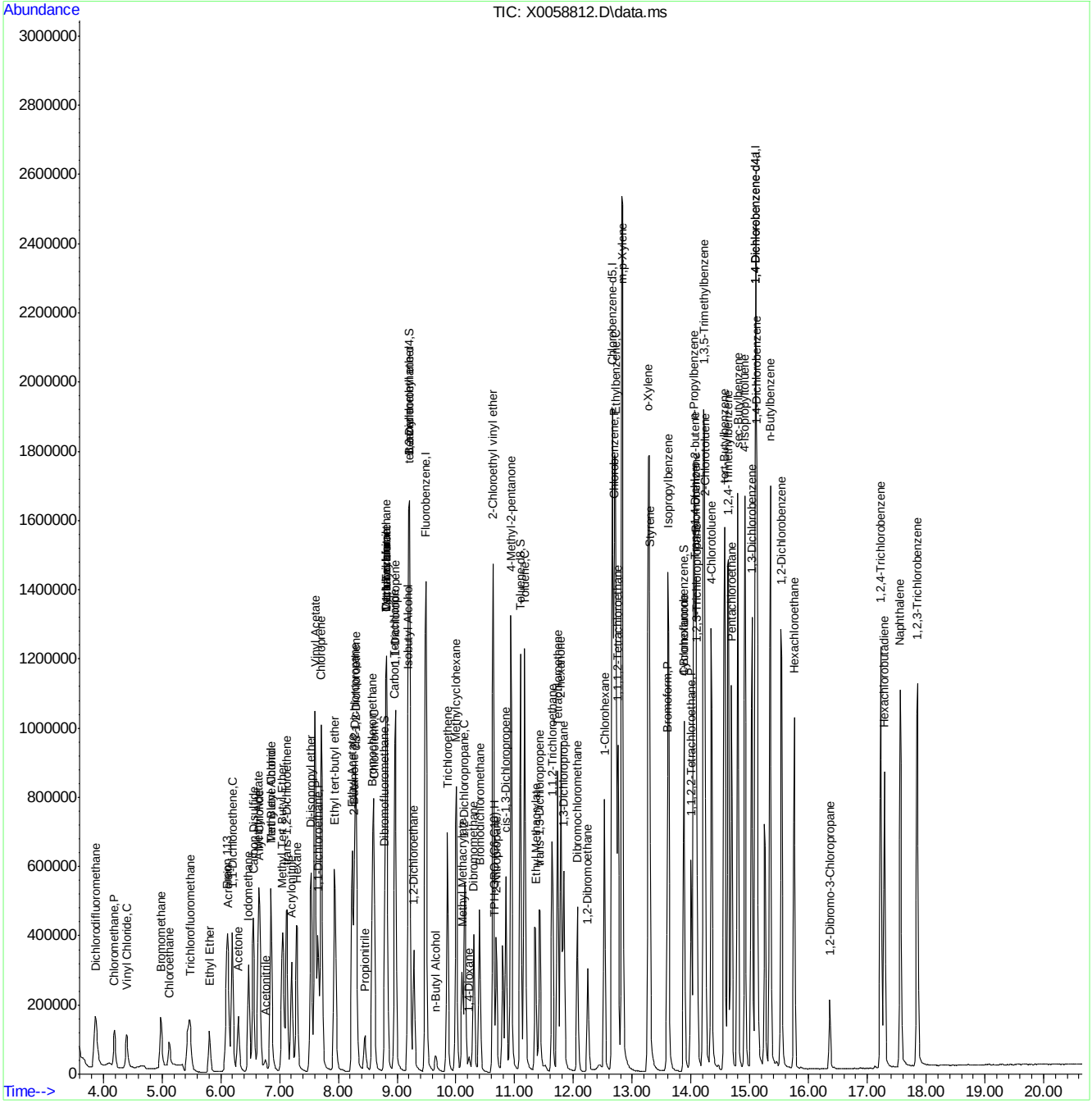
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.689	167	235256	46.98	ug/L	100
92)	sec-Butylbenzene	14.797	105	1351297	41.63	ug/L	100
93)	1,3-Dichlorobenzene	15.035	146	655529	43.72	ug/L	98
94)	4-Isopropyltoluene	14.916	119	1054474	40.01	ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	705518	41.51	ug/L	99
96)	tert-Butylbenzene	14.571	91	578865	40.83	ug/L	99
97)	n-Butylbenzene	15.348	91	1088077	42.33	ug/L	100
98)	1,2-Dichlorobenzene	15.531	146	666225	43.39	ug/L	99
99)	1,2,4-Trimethylbenzene	14.635	105	1051404	41.58	ug/L	100
100)	Hexachloroethane	15.758	119	215826	42.03	ug/L	96
101)	1,2-Dibromo-3-Chloropr...	16.362	75	59650	43.32	ug/L	92
102)	1,2,4-Trichlorobenzene	17.225	180	491561	42.95	ug/L	99
103)	Hexachlorobutadiene	17.290	225	208056	39.09	ug/L	97
104)	Naphthalene	17.559	128	1123655	49.80	ug/L	99
105)	1,2,3-Trichlorobenzene	17.851	180	487546	44.58	ug/L	99
107)	TPH-GRO (C6-C10)	10.659	TIC	95565978m	2397.27	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

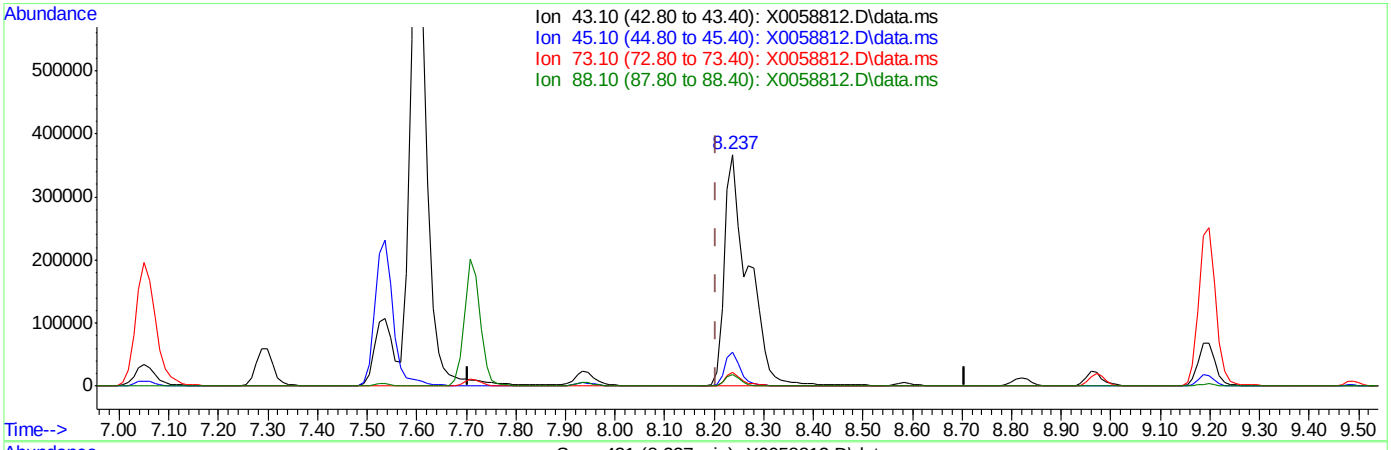
Quant Time: Feb 05 09:03:10 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration

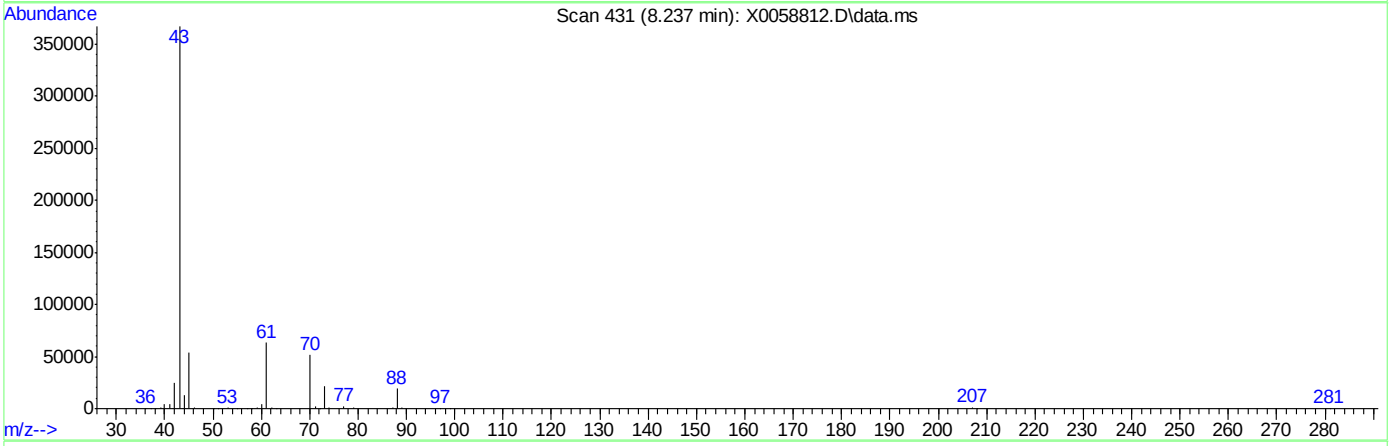


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





TIC: X0058812.D\data.ms

(31) Ethyl Acetate

8.237min (+0.032) 413.96ug/L

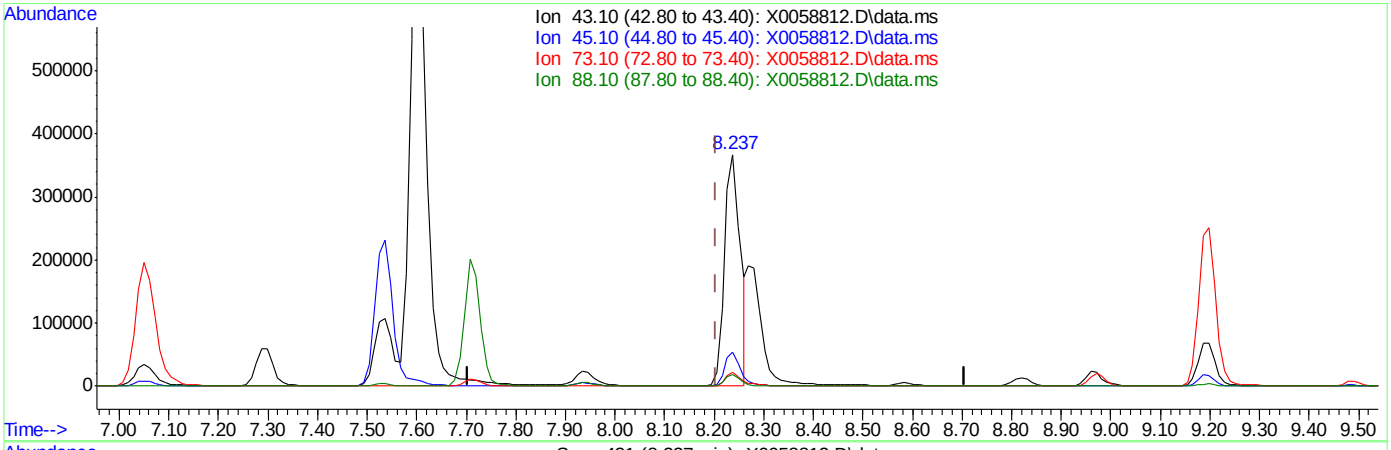
response 1223917

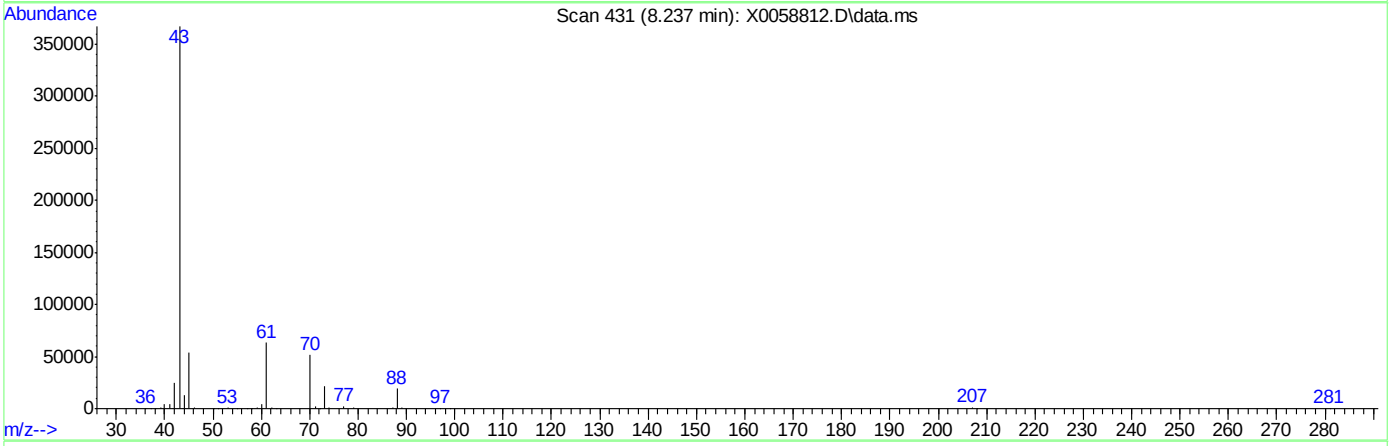
Ion	Exp%	Act%
43.10	100	100
45.10	14.70	14.62
73.10	5.70	5.78
88.10	5.60	5.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





TIC: X0058812.D\data.ms

(31) Ethyl Acetate

8.237min (+0.032) 273.39ug/L m

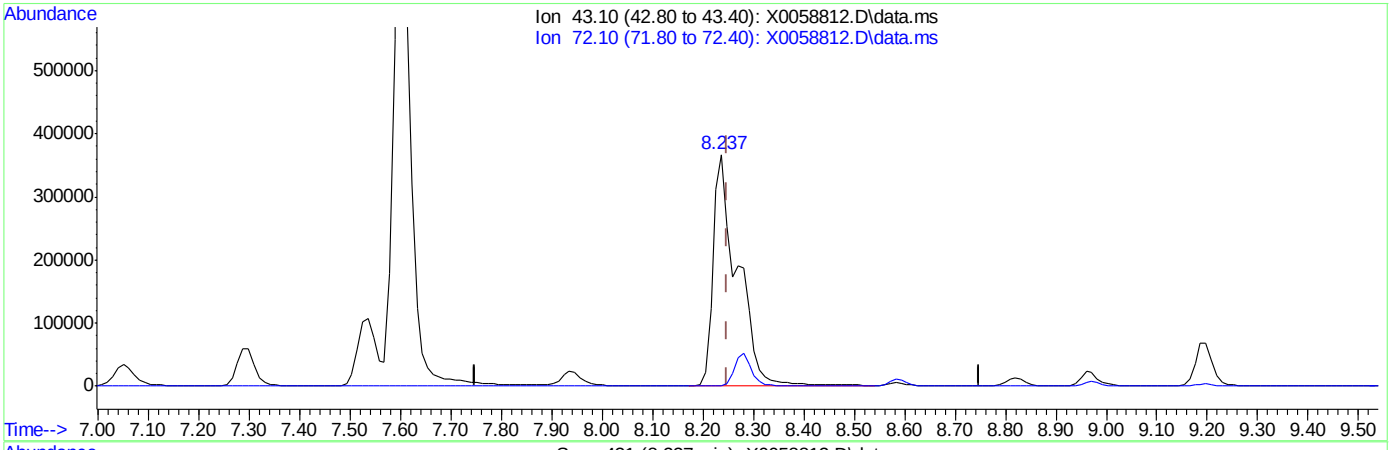
response 808302

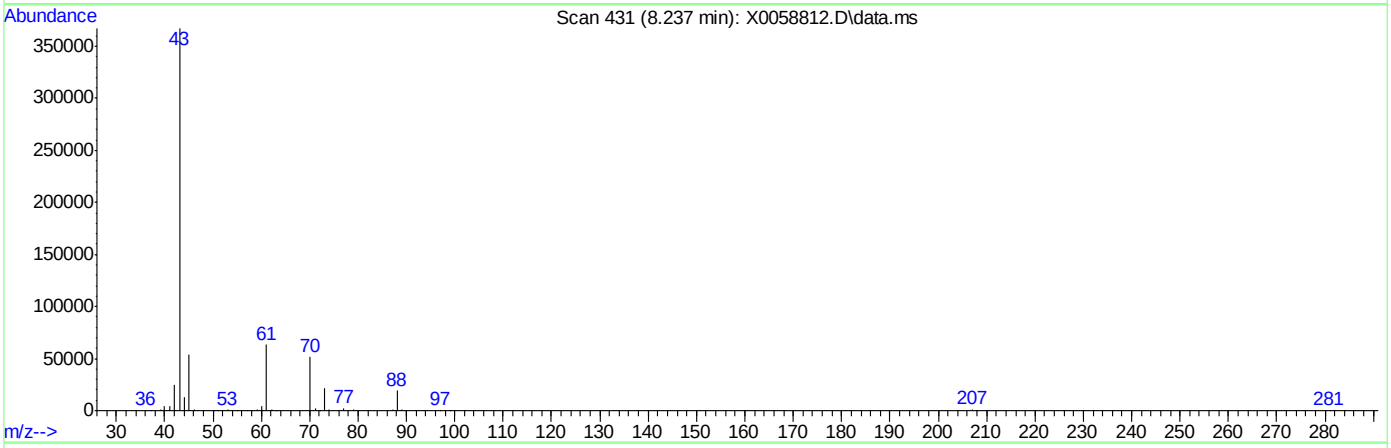
Ion	Exp%	Act%
43.10	100	100
45.10	14.70	14.59
73.10	5.70	5.77
88.10	5.60	5.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





TIC: X0058812.D\data.ms

(32) 2-Butanone

8.237min (-0.011) 961.57ug/L

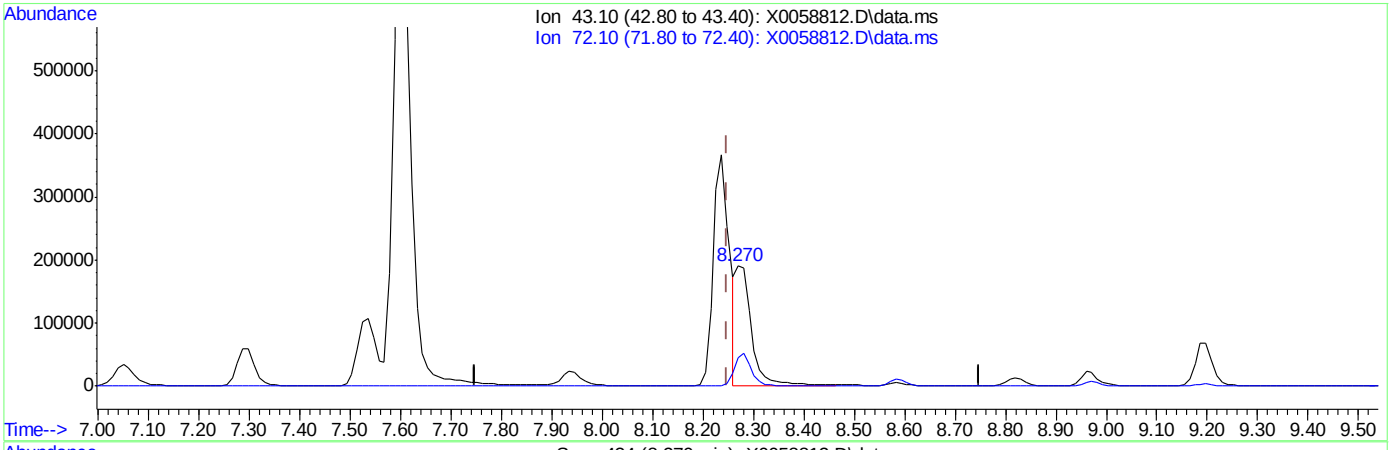
response 1224060

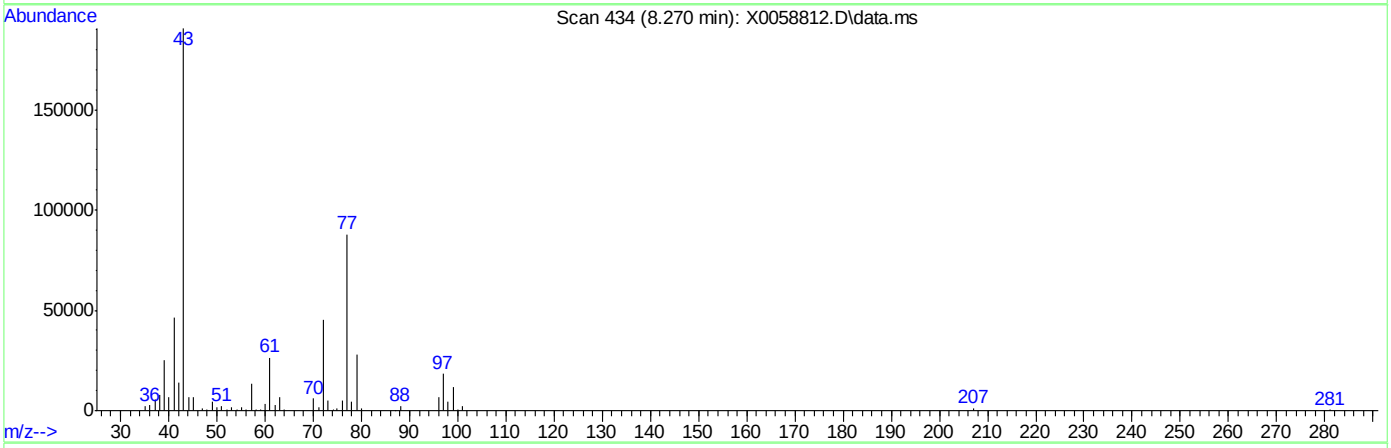
Ion	Exp%	Act%
43.10	100	100
72.10	27.20	0.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





(32) 2-Butanone

8.270min (+0.022) 317.40ug/L m

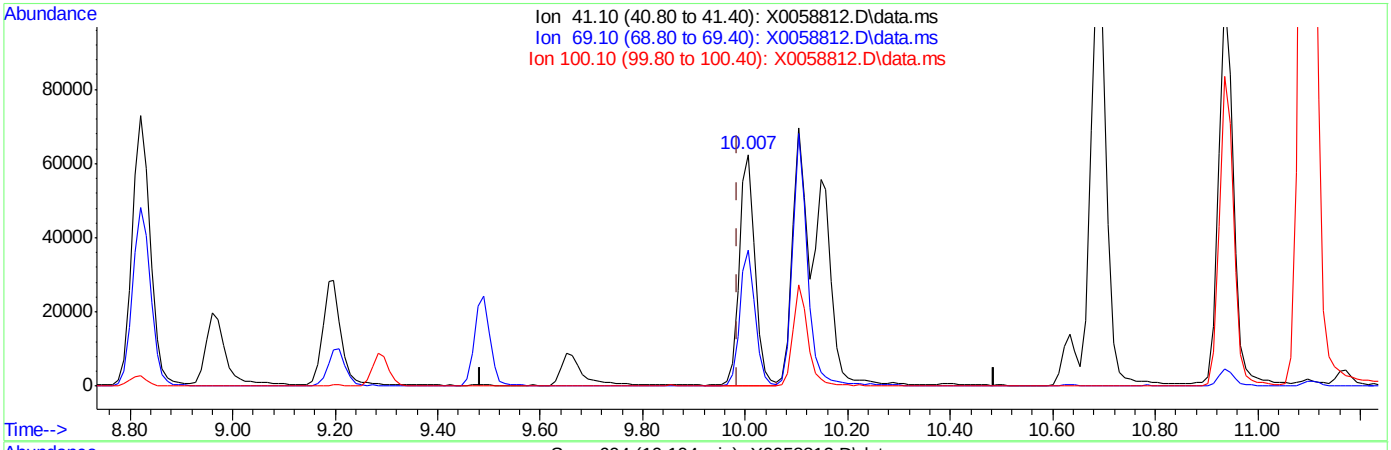
response 418586

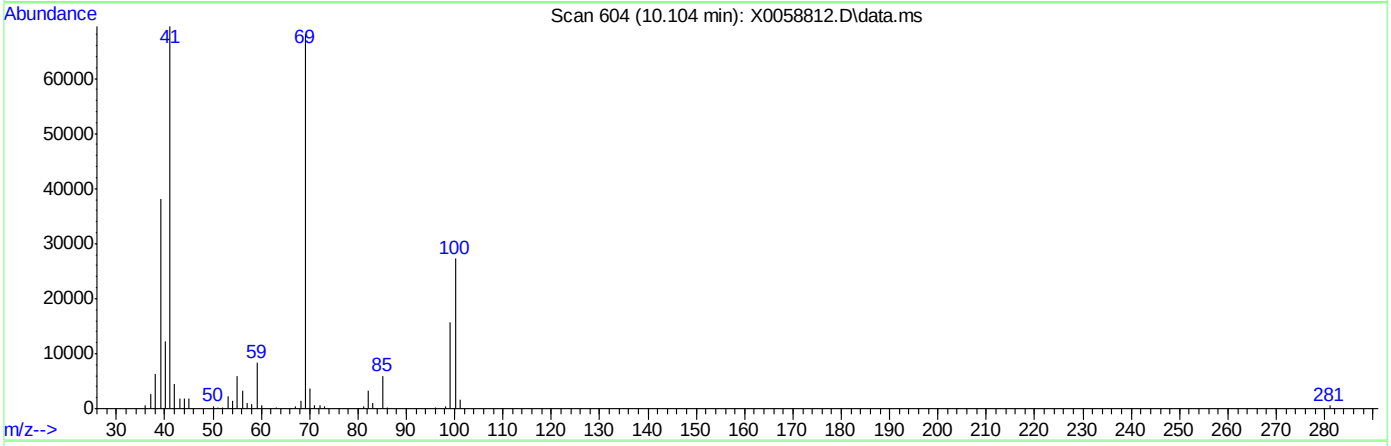
Ion	Exp%	Act%
43.10	100	100
72.10	27.20	23.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





TIC: X0058812.D\data.ms

(51) Methyl Methacrylate

10.007min (+0.022) 42.87ug/L

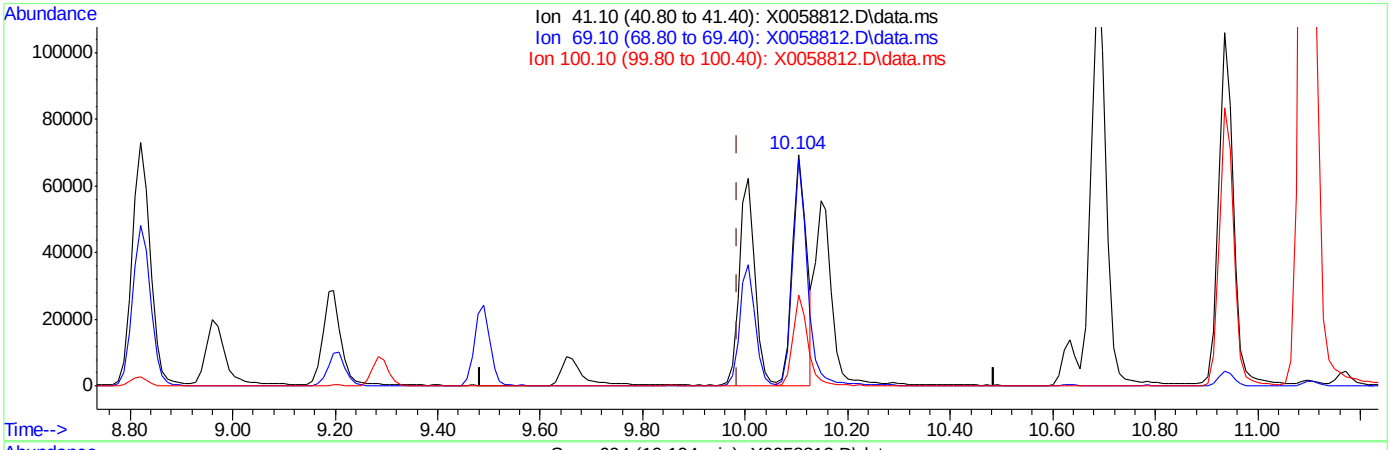
response 136590

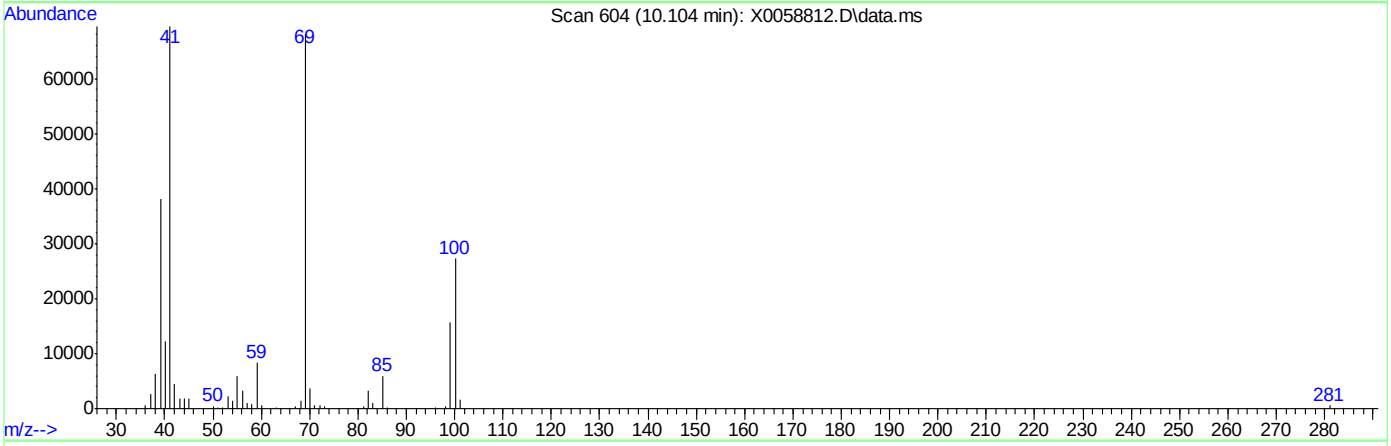
Ion	Exp%	Act%
41.10	100	100
69.10	63.20	58.53
100.10	0.30	0.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058812.D
Acq On : 4 Feb 2010 3:53 pm
Operator : jennl
Sample : icc435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 05 09:02:04 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Wed Jan 27 09:46:53 2010
Response via : Initial Calibration





TIC: X0058812.D\data.ms

(51) Methyl Methacrylate

10.104min (+0.119) 42.06ug/L m

response 134022

Ion	Exp%	Act%
41.10	100	100
69.10	63.20	97.94#
100.10	0.30	39.19#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:34 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1625336	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1323005	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	774557	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	774557	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	719373	99.85	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 199.70%#			
44) 1,2-Dichloroethane-d4	9.208	65	685799	93.29	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 186.58%#			
61) Toluene-d8	11.096	98	2438539	103.08	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 206.16%#			
82) 4-Bromofluorobenzene	13.880	95	1044006	109.07	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 218.14%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	920644	96.76	ug/L	98
3) Chloromethane	4.202	50	423043	101.82	ug/L	99
4) Vinyl Chloride	4.407	62	413649	103.95	ug/L	99
5) Bromomethane	4.989	94	310870	84.86	ug/L	99
6) Chloroethane	5.130	64	203083	90.76	ug/L	99
7) Trichlorofluoromethane	5.464	101	865805	94.33	ug/L	99
8) Ethyl Ether	5.809	59	228892	93.35	ug/L	100
9) Acrolein	6.122	56	94933	438.92	ug/L	97
10) 1,1-Dichloroethene	6.198	61	822838	98.69	ug/L	98
11) Freon 113	6.112	101	694268	97.26	ug/L	99
12) Acetone	6.295	43	568984	394.41	ug/L	99
13) Iodomethane	6.478	142	1292311	108.17	ug/L	97
14) Methyl Acetate	6.640	43	1498662	414.24	ug/L	99
15) Carbon Disulfide	6.554	76	2169228	100.07	ug/L	99
16) Methylene Chloride	6.856	49	690159	93.41	ug/L	98
17) Tert Butyl Alcohol	6.867	59	321732	871.58	ug/L	98
18) Allyl Chloride	6.662	41	642619	100.40	ug/L	99
19) Acetonitrile	6.759	41	122804	230.84	ug/L	94
20) trans-1,2-Dichloroethene	7.126	61	832640	100.81	ug/L	98
21) Acrylonitrile	7.201	53	774912	435.07	ug/L	99
22) Methyl Tert Butyl Ether	7.050	73	1509094	106.90	ug/L	98
23) Hexane	7.298	57	677980	100.08	ug/L	99
24) 1,1-Dichloroethane	7.655	63	1042463	96.13	ug/L	99
25) Vinyl Acetate	7.601	43	4229894	439.15	ug/L	99
26) Di-isopropyl ether	7.536	45	1613290	105.73	ug/L	99
27) Chloroprene	7.708	53	1739163	98.69	ug/L	99
28) Ethyl tert-butyl ether	7.935	59	1646364	106.82	ug/L	99
29) 2,2-Dichloropropane	8.280	77	878935	101.50	ug/L	99
30) cis-1,2-Dichloroethene	8.302	96	705432	99.36	ug/L	97
31) Ethyl Acetate	8.237	43	1841987m	432.41	ug/L	
32) 2-Butanone	8.270	43	881499m	372.43	ug/L	
33) Propionitrile	8.453	54	316869	428.57	ug/L	99
34) Methacrylonitrile	8.820	41	442451	94.69	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:34 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	406063	99.04	ug/L	97
36) Chloroform	8.604	83	1172578	96.93	ug/kg	99
37) Tetrahydrofuran	8.820	42	181193	93.70	ug/L	99
38) 1,1,1-Trichloroethane	8.820	97	1041216	101.86	ug/L	99
40) Cyclohexane	8.820	56	912403	100.42	ug/L	99
41) n-Butyl Alcohol	9.651	56	85129	1014.93	ug/L	88
42) 1,1-Dichloropropene	8.971	75	832119	103.08	ug/L	98
43) Carbon Tetrachloride	8.960	117	946764	102.61	ug/L	99
45) Benzene	9.208	78	2452354	94.41	ug/L	99
46) Isobutyl Alcohol	9.197	43	429172	1013.52	ug/L	95
47) 1,2-Dichloroethane	9.284	62	796174	95.14	ug/L	99
48) tert-amyl methyl ether	9.197	73	1588967	104.32	ug/L	96
49) Trichloroethene	9.856	95	714123	107.84	ug/L	99
50) Methylcyclohexane	10.007	83	1056204	108.12	ug/L	98
51) Methyl Methacrylate	10.104	41	342255	104.24	ug/L	97
52) 1,2-Dichloropropane	10.158	63	626311	98.12	ug/L	97
53) Dibromomethane	10.298	93	446795	95.69	ug/kg	96
54) 1,4-Dioxane	10.222	88	112083	1939.09	ug/L	97
55) Bromodichloromethane	10.406	83	938729	103.94	ug/L	99
56) 2-Nitropropane	10.686	41	588203	448.67	ug/L	98
57) 2-Chloroethyl vinyl ether	10.632	63	1748753	461.37	ug/L	99
58) 4-Methyl-2-pentanone	10.935	43	2066520	413.29	ug/L	99
59) cis-1,3-Dichloropropene	10.848	75	1080427	108.72	ug/L	98
62) Toluene	11.172	91	2829714	102.20	ug/L	99
63) Ethyl Methacrylate	11.345	69	767567	108.75	ug/L	99
64) trans-1,3-Dichloropropene	11.420	75	910691	105.93	ug/L	98
65) 1,1,2-Trichloroethane	11.636	83	528664	94.85	ug/L	98
66) Tetrachloroethene	11.733	166	862999	108.13	ug/L	98
67) 2-hexanone	11.787	43	1503815	419.06	ug/L	98
68) 1,3-Dichloropropane	11.841	76	1018044	93.45	ug/L	96
69) Dibromochloromethane	12.068	129	781971	103.39	ug/L	99
70) 1,2-Dibromoethane	12.240	107	672676	101.26	ug/L	98
71) 1-Chlorohexane	12.531	91	959892	114.69	ug/L	96
72) Chlorobenzene	12.693	112	2048748	101.20	ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.758	131	788471	105.95	ug/L	99
74) Ethylbenzene	12.715	91	3275471	101.74	ug/L	99
75) m,p-Xylene	12.834	91	5077085	201.06	ug/L	98
76) o-Xylene	13.276	91	2673921	106.58	ug/L	99
77) Styrene	13.298	104	2197465	107.15	ug/L	99
78) Bromoform	13.600	173	552667	106.29	ug/L	99
80) Isopropylbenzene	13.621	105	2937851	110.47	ug/L	98
81) Cyclohexanone	13.880	55	73139	914.94	ug/L	90
83) Bromobenzene	14.085	156	1011336	105.08	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	829870	89.64	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	209596	88.67	ug/L	89
86) 1,2,3-Trichloropropane	14.096	110	235481	88.82	ug/L	97
87) n-Propylbenzene	14.053	91	3977379	104.77	ug/L	98
88) 2-Chlorotoluene	14.236	91	2727514	100.70	ug/L	99
89) 4-Chlorotoluene	14.344	91	2495127	105.80	ug/L	98
90) 1,3,5-Trimethylbenzene	14.215	105	2815426	107.83	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:34 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration

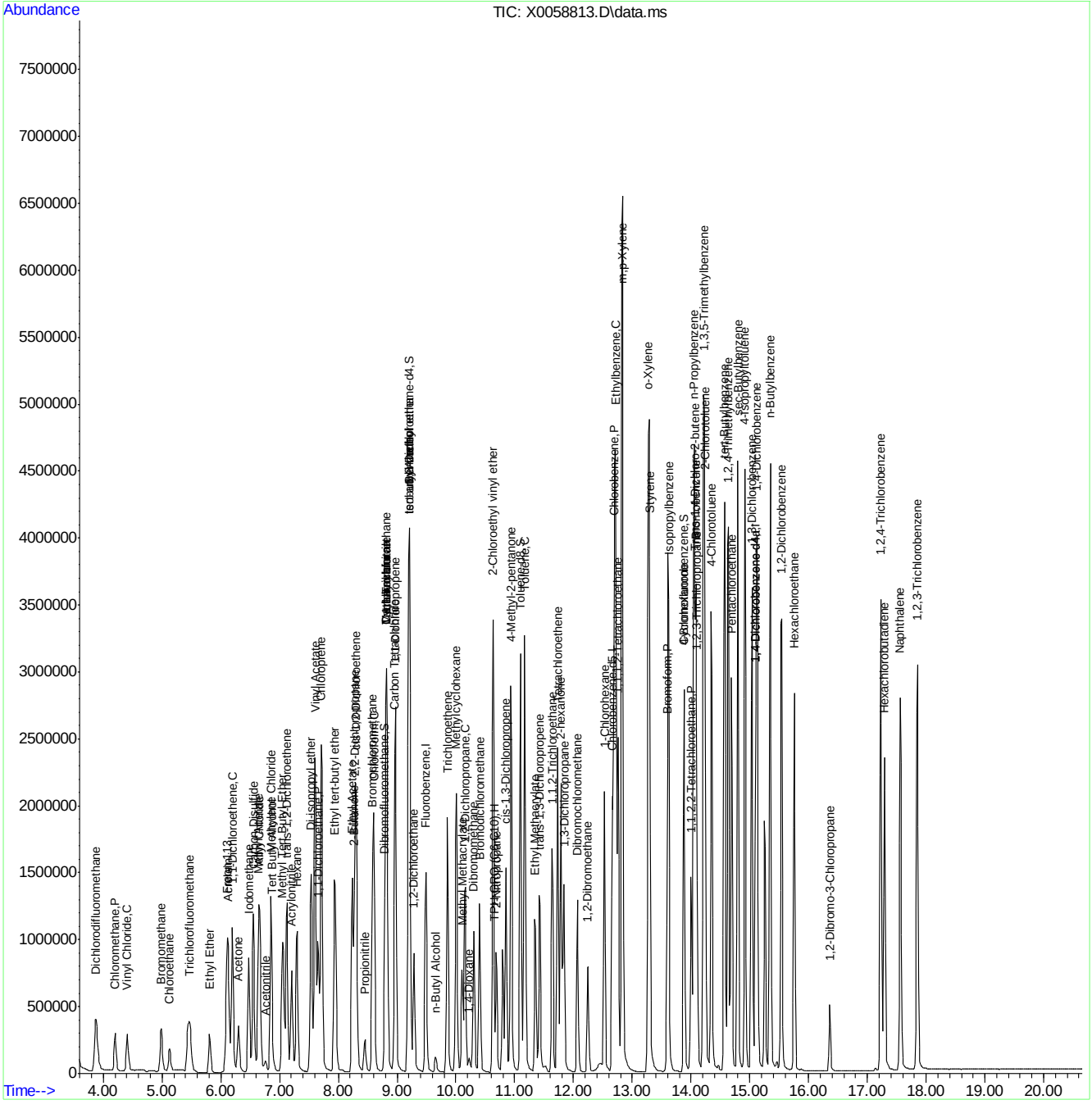
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91)	Pentachloroethane	14.689	167	665380	109.92 ug/L	99
92)	sec-Butylbenzene	14.797	105	3697155	106.51 ug/L	98
93)	1,3-Dichlorobenzene	15.035	146	1828070	106.63 ug/L	99
94)	4-Isopropyltoluene	14.916	119	2970441	110.36 ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	1916959	102.85 ug/L	98
96)	tert-Butylbenzene	14.571	91	1588045	107.15 ug/L	97
97)	n-Butylbenzene	15.348	91	2906657	103.02 ug/L	98
98)	1,2-Dichlorobenzene	15.542	146	1823194	104.20 ug/L	96
99)	1,2,4-Trimethylbenzene	14.635	105	2897252	106.57 ug/L	100
100)	Hexachloroethane	15.758	119	615433	110.21 ug/L	97
101)	1,2-Dibromo-3-Chloropr...	16.362	75	146038	91.07 ug/L	95
102)	1,2,4-Trichlorobenzene	17.225	180	1421869	112.72 ug/L	99
103)	Hexachlorobutadiene	17.290	225	590887	109.21 ug/L	99
104)	Naphthalene	17.559	128	2941365	100.73 ug/L	100
105)	1,2,3-Trichlorobenzene	17.851	180	1342010	105.51 ug/L	100
107)	TPH-GRO (C6-C10)	10.659	TIC	246759086m	5042.12 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

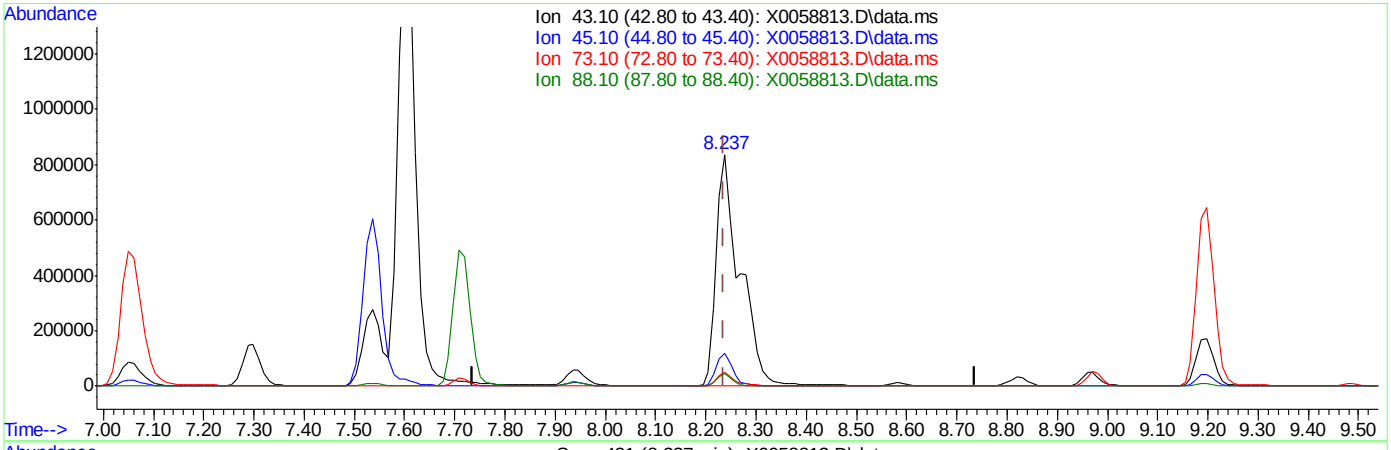
Quant Time: Feb 05 09:05:34 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration

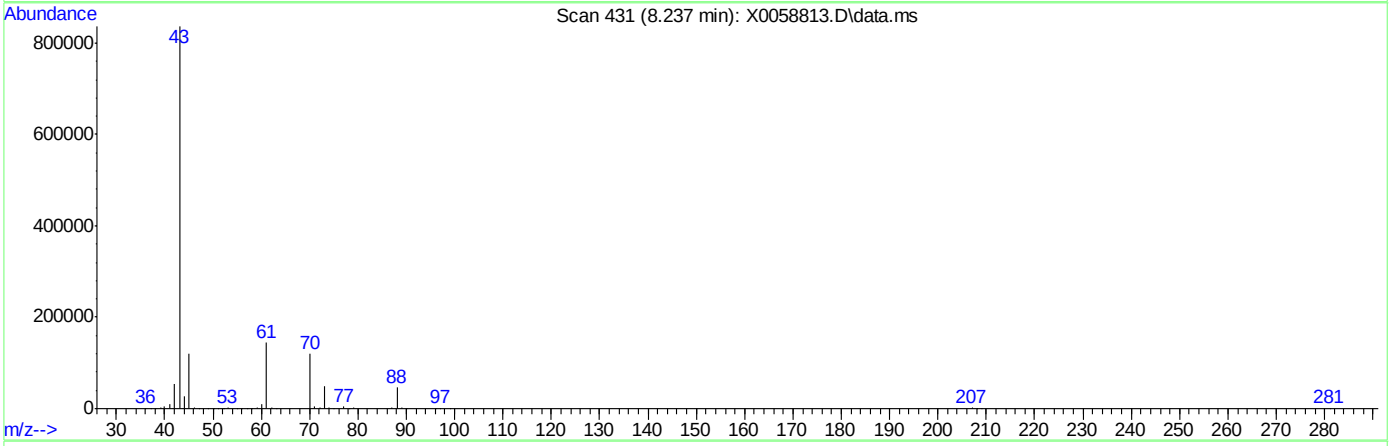


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:11 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration





TIC: X0058813.D\data.ms

(31) Ethyl Acetate

8.237min (0.000) 640.08ug/L

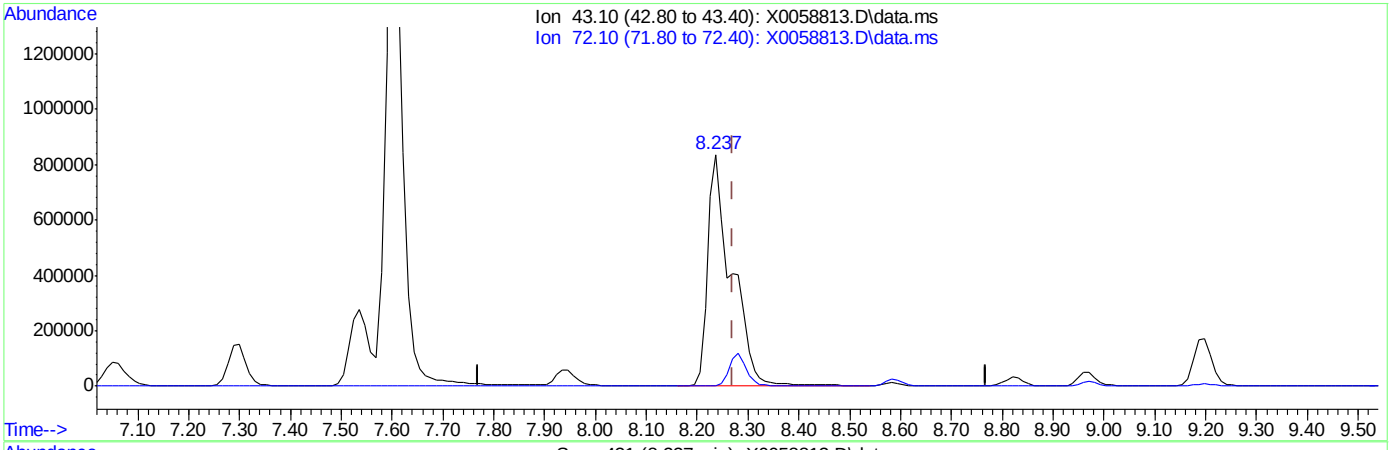
response 2726641

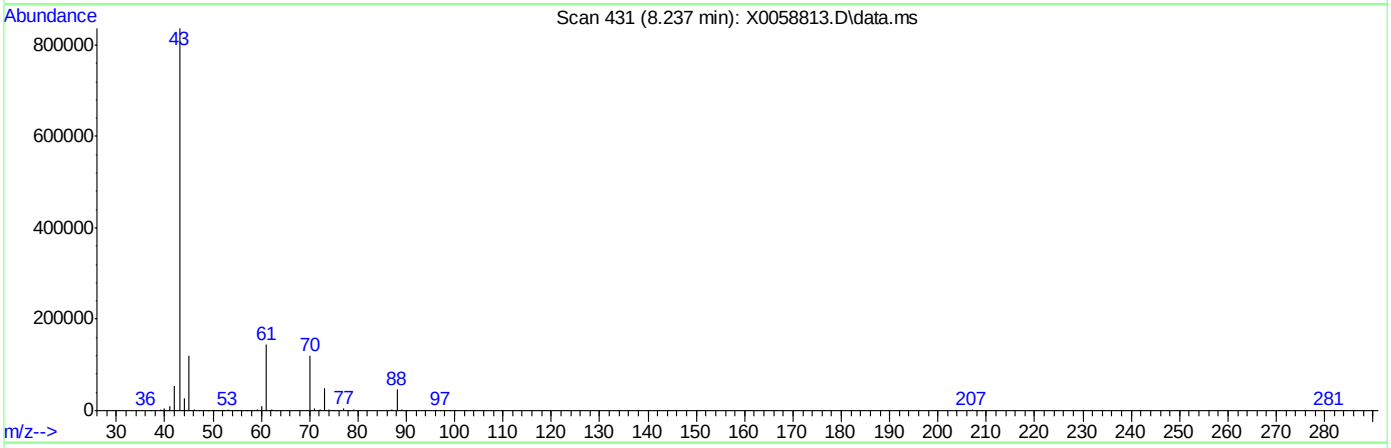
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.42
73.10	5.80	5.84
88.10	5.20	5.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:11 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration





TIC: X0058813.D\data.ms

(32) 2-Butanone

8.237min (-0.032) 1152.29ug/L

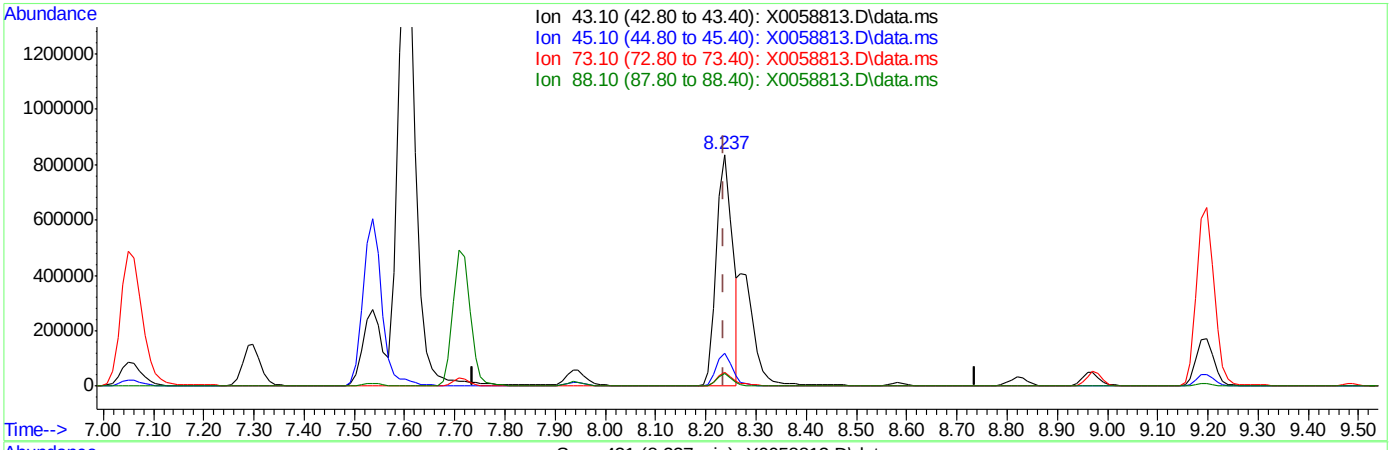
response 2727321

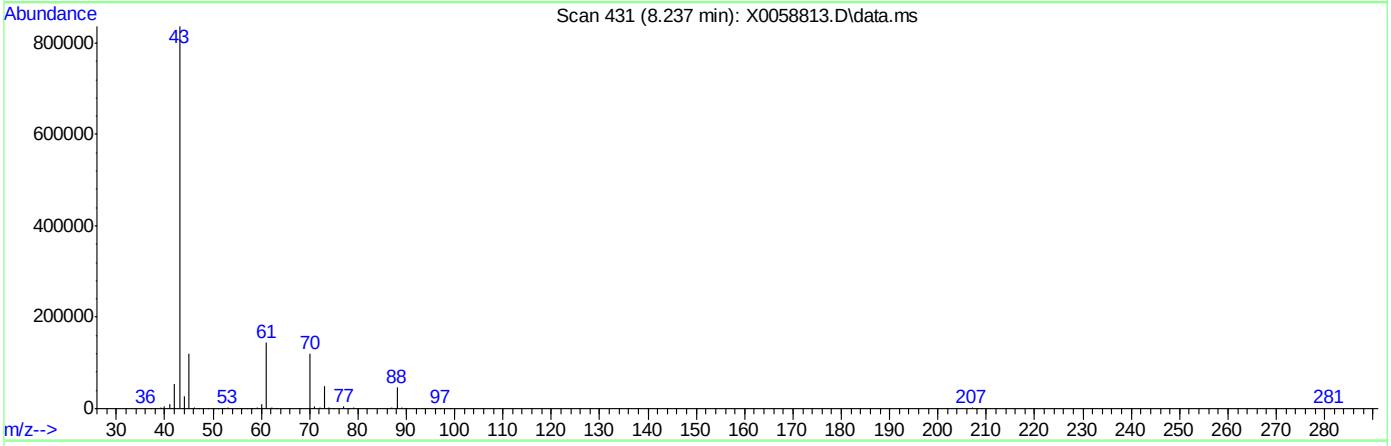
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:11 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration





TIC: X0058813.D\data.ms

(31) Ethyl Acetate

8.237min (0.000) 432.41ug/L m

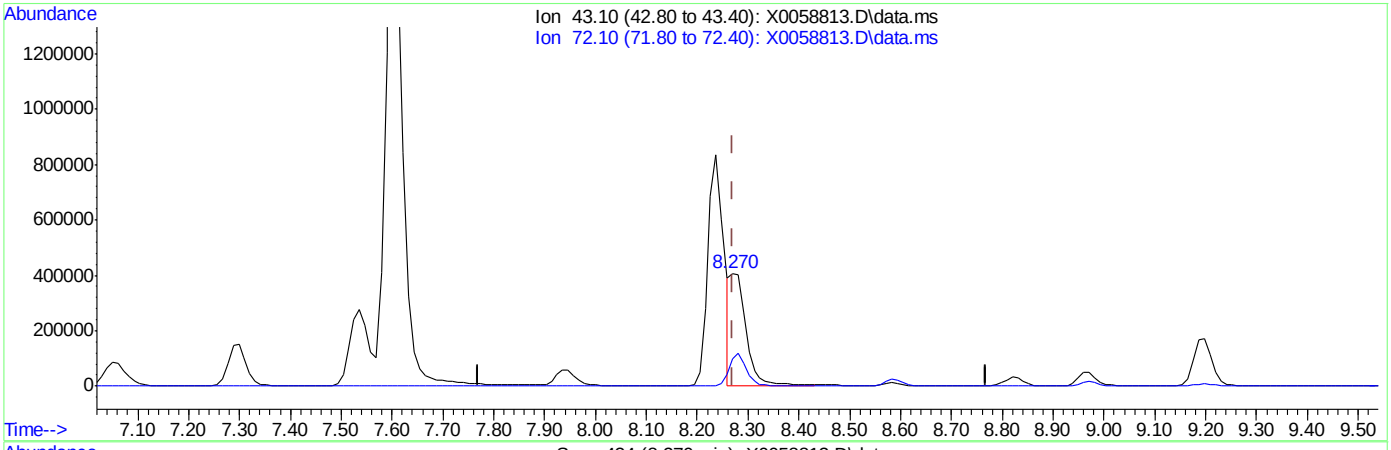
response 1841987

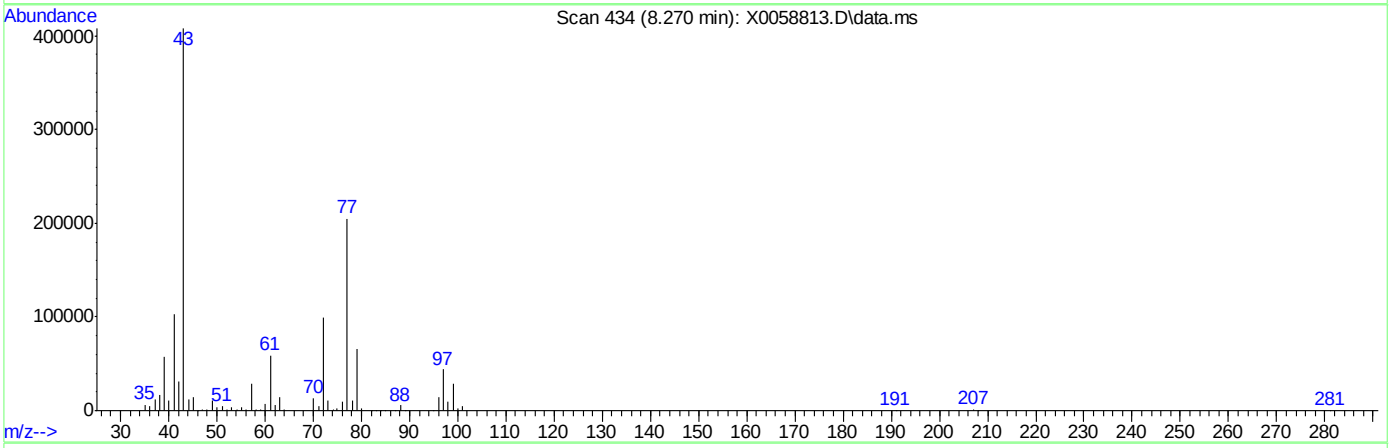
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.43
73.10	5.80	5.83
88.10	5.20	5.44

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058813.D
Acq On : 4 Feb 2010 4:21 pm
Operator : jennl
Sample : ic435-100
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 09:05:11 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:04:59 2010
Response via : Initial Calibration





TIC: X0058813.D\data.ms

(32) 2-Butanone

8.270min (0.000) 372.43ug/L m

response 881499

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	24.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:52 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1711922	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1385017	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	814312	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	814312	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	1427905	188.02	ug/L	0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 376.04%#			
44) 1,2-Dichloroethane-d4	9.208	65	1328834	171.30	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 342.60%#			
61) Toluene-d8	11.096	98	4820589	210.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 420.36%#			
82) 4-Bromofluorobenzene	13.880	95	2111981	231.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 463.34%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	1794271	178.68	ug/L	100
3) Chloromethane	4.213	50	798658	170.15	ug/L	100
4) Vinyl Chloride	4.418	62	799913	180.33	ug/L	99
5) Bromomethane	4.979	94	458480	110.00	ug/L	100
6) Chloroethane	5.119	64	318338	127.50	ug/L	99
7) Trichlorofluoromethane	5.475	101	1536673	154.61	ug/L	99
8) Ethyl Ether	5.809	59	422475	165.75	ug/L	99
9) Acrolein	6.122	56	205568	1009.93	ug/L	100
10) 1,1-Dichloroethene	6.198	61	1587876	191.66	ug/L	98
11) Freon 113	6.112	101	1323287	186.82	ug/L	98
12) Acetone	6.306	43	1327789	821.78	ug/L	99
13) Iodomethane	6.478	142	2669000	220.83	ug/L	97
14) Methyl Acetate	6.640	43	3276042	917.52	ug/L	97
15) Carbon Disulfide	6.554	76	4266555	192.68	ug/L	99
16) Methylene Chloride	6.856	49	1314420	165.70	ug/L	96
17) Tert Butyl Alcohol	6.867	59	907905	2750.92	ug/L	81
18) Allyl Chloride	6.662	41	1244221	194.42	ug/L	98
19) Acetonitrile	6.759	41	258460	438.02	ug/L	98
20) trans-1,2-Dichloroethene	7.126	61	1630071	200.58	ug/L	97
21) Acrylonitrile	7.201	53	1731873	1049.37	ug/L	100
22) Methyl Tert Butyl Ether	7.050	73	3239811	247.22	ug/L	97
23) Hexane	7.298	57	1339860	226.69	ug/L	99
24) 1,1-Dichloroethane	7.654	63	2042222	183.62	ug/L	98
25) Vinyl Acetate	7.601	43	8134464	954.98	ug/L	97
26) Di-isopropyl ether	7.536	45	3120944	223.86	ug/L	97
27) Chloroprene	7.708	53	3341697	200.60	ug/L	99
28) Ethyl tert-butyl ether	7.946	59	3405795	240.88	ug/L	96
29) 2,2-Dichloropropane	8.291	77	1672860	194.13	ug/L	97
30) cis-1,2-Dichloroethene	8.302	96	1349678	196.52	ug/L	97
31) Ethyl Acetate	8.237	43	4549980m	1212.84	ug/L	
32) 2-Butanone	8.280	43	1437488m	629.66	ug/L	
33) Propionitrile	8.453	54	768598	1147.45	ug/L	99
34) Methacrylonitrile	8.820	41	822656	199.07	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:52 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	804554	194.61	ug/L	93
36) Chloroform	8.604	83	2269719	182.72	ug/kg	99
37) Tetrahydrofuran	8.820	42	326143	190.58	ug/L	96
38) 1,1,1-Trichloroethane	8.820	97	2019025	196.66	ug/L	98
40) Cyclohexane	8.820	56	1689091	216.75	ug/L	96
41) n-Butyl Alcohol	9.651	56	273299	4125.99	ug/L	86
42) 1,1-Dichloropropene	8.971	75	1611383	221.26	ug/L	99
43) Carbon Tetrachloride	8.960	117	1872732	204.22	ug/L	99
45) Benzene	9.208	78	4277843	168.18	ug/L	98
46) Isobutyl Alcohol	9.197	43	853669	2188.11	ug/L	93
47) 1,2-Dichloroethane	9.284	62	1622368	190.18	ug/L	99
48) tert-amyl methyl ether	9.197	73	3149140	231.50	ug/L	94
49) Trichloroethene	9.856	95	1453027	225.53	ug/L	97
50) Methylcyclohexane	10.007	83	2094154	248.25	ug/L	97
51) Methyl Methacrylate	10.104	41	804708	287.95	ug/L	96
52) 1,2-Dichloropropane	10.158	63	1216680	194.07	ug/L	98
53) Dibromomethane	10.309	93	934460	201.17	ug/kg	87
54) 1,4-Dioxane	10.222	88	311712	6182.40	ug/L	95
55) Bromodichloromethane	10.406	83	1885046	205.74	ug/L	100
56) 2-Nitropropane	10.697	41	1372060	1117.39	ug/L	100
57) 2-Chloroethyl vinyl ether	10.632	63	3241878	1037.40	ug/L	97
58) 4-Methyl-2-pentanone	10.935	43	4326729	1006.64	ug/L	97
59) cis-1,3-Dichloropropene	10.848	75	2193983	237.96	ug/L	98
62) Toluene	11.172	91	5453128	211.23	ug/L	99
63) Ethyl Methacrylate	11.355	69	1762754	300.75	ug/L	98
64) trans-1,3-Dichloropropene	11.420	75	1899779	240.75	ug/L	99
65) 1,1,2-Trichloroethane	11.636	83	1095258	196.85	ug/L	99
66) Tetrachloroethene	11.733	166	1758374	225.03	ug/L	99
67) 2-hexanone	11.787	43	3418141	1189.93	ug/L	98
68) 1,3-Dichloropropane	11.841	76	2081644	196.96	ug/L	96
69) Dibromochloromethane	12.067	129	1676777	225.81	ug/L	98
70) 1,2-Dibromoethane	12.251	107	1490479	234.24	ug/L	97
71) 1-Chlorohexane	12.531	91	1922897	273.98	ug/L	94
72) Chlorobenzene	12.693	112	3938919	188.95	ug/L	96
73) 1,1,1,2-Tetrachloroethane	12.758	131	1593576	210.02	ug/L	99
74) Ethylbenzene	12.715	91	6087630	196.68	ug/L	98
75) m,p-Xylene	12.834	91	9042521	392.17	ug/L	98
76) o-Xylene	13.276	91	4978495	225.96	ug/L	100
77) Styrene	13.297	104	4135746	233.65	ug/L	99
78) Bromoform	13.600	173	1280850	255.51	ug/L	97
80) Isopropylbenzene	13.621	105	5638025	244.31	ug/L	97
81) Cyclohexanone	13.880	55	191344	2904.32	ug/L	97
83) Bromobenzene	14.085	156	2008249	213.95	ug/L	100
84) 1,1,2,2-Tetrachloroethane	13.999	83	1825649	197.99	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	447137	219.33	ug/L	89
86) 1,2,3-Trichloropropane	14.096	110	521684	203.18	ug/L	94
87) n-Propylbenzene	14.053	91	7365147	221.44	ug/L	95
88) 2-Chlorotoluene	14.236	91	5083583	199.91	ug/L	98
89) 4-Chlorotoluene	14.344	91	4866853	222.34	ug/L	95
90) 1,3,5-Trimethylbenzene	14.215	105	5306845	231.52	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:52 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration

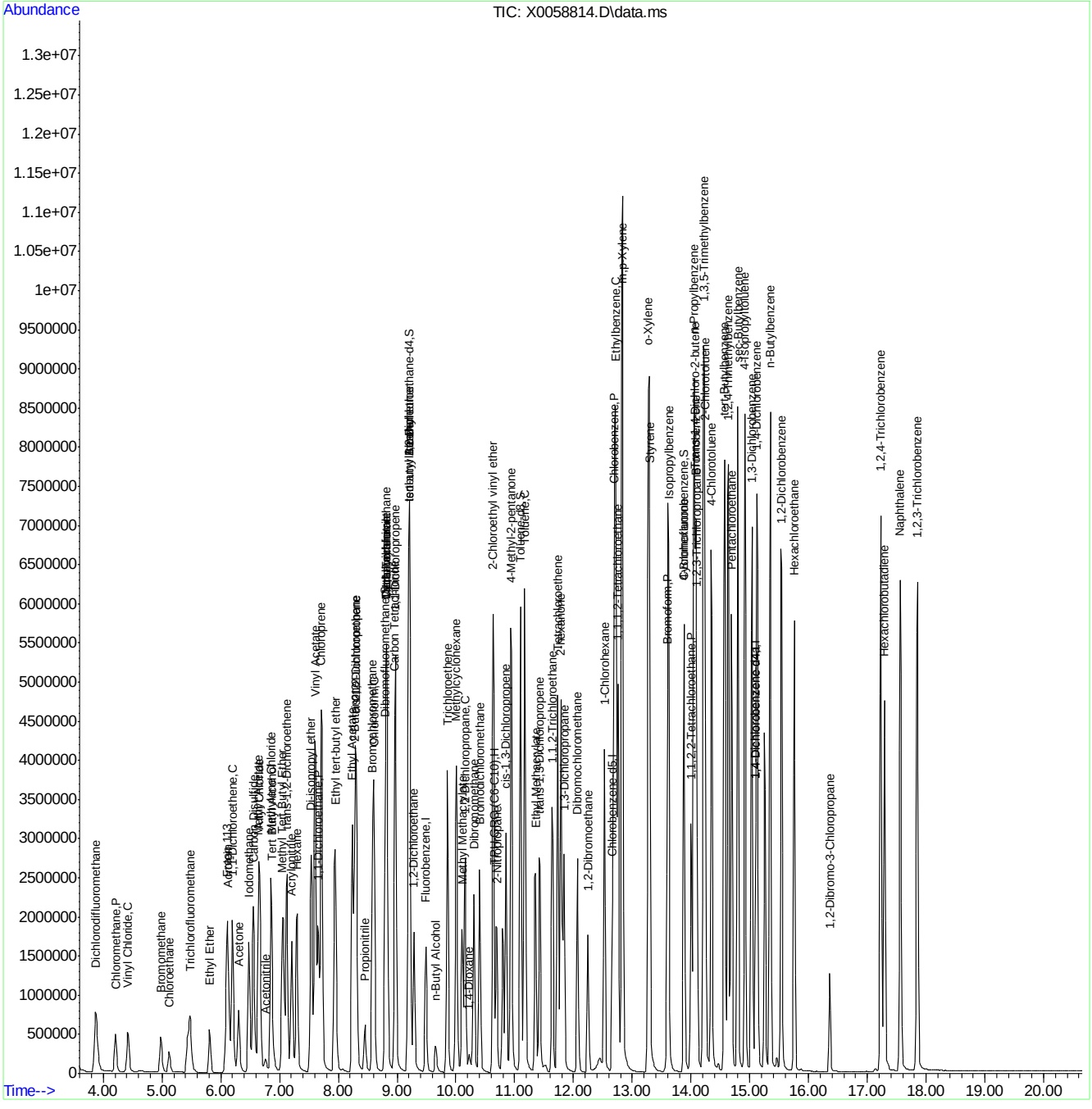
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91)	Pentachloroethane	14.689	167	1397072	222.04 ug/L	100
92)	sec-Butylbenzene	14.797	105	7042291	229.73 ug/L	95
93)	1,3-Dichlorobenzene	15.035	146	3631645	213.88 ug/L	99
94)	4-Isopropyltoluene	14.916	119	5756982	243.64 ug/L	97
95)	1,4-Dichlorobenzene	15.121	146	3795202	193.28 ug/L	98
96)	tert-Butylbenzene	14.571	91	3102027	236.34 ug/L	95
97)	n-Butylbenzene	15.348	91	5524160	215.40 ug/L	97
98)	1,2-Dichlorobenzene	15.542	146	3651110	208.71 ug/L	96
99)	1,2,4-Trimethylbenzene	14.635	105	5548846	230.79 ug/L	99
100)	Hexachloroethane	15.758	119	1278767	218.05 ug/L	94
101)	1,2-Dibromo-3-Chloropr...	16.362	75	353407	229.08 ug/L	89
102)	1,2,4-Trichlorobenzene	17.225	180	3010617	245.89 ug/L	99
103)	Hexachlorobutadiene	17.290	225	1240233	227.48 ug/L	97
104)	Naphthalene	17.559	128	6744974	261.56 ug/L	100
105)	1,2,3-Trichlorobenzene	17.851	180	2886876	233.37 ug/L	99
107)	TPH-GRO (C6-C10)	10.659	TIC	487529961m	12564.33 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:52 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On    :  4 Feb 2010   4:50 pm
Operator  : jennl
Sample    : ic435-200
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Feb 05 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration
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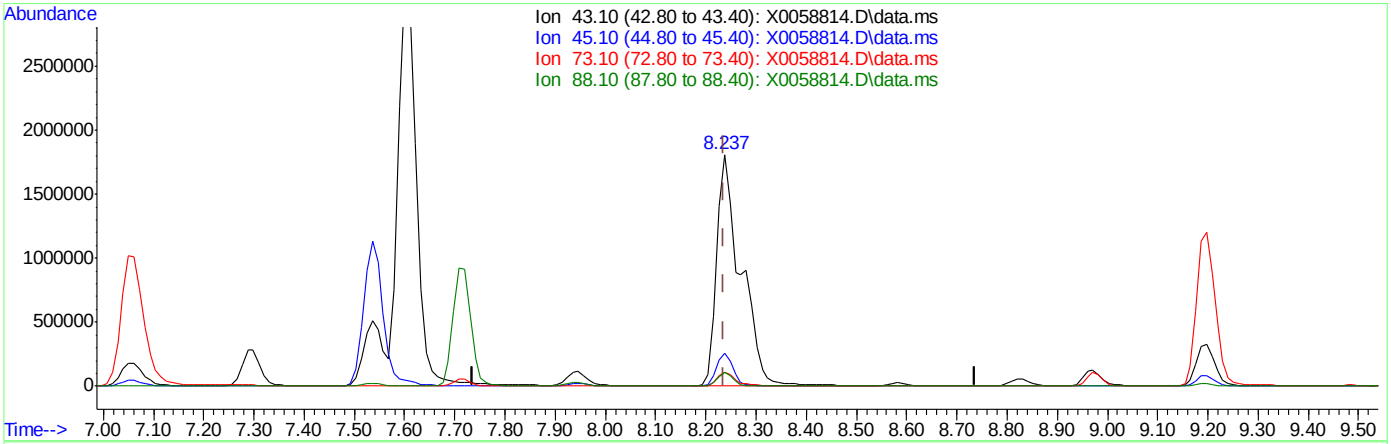
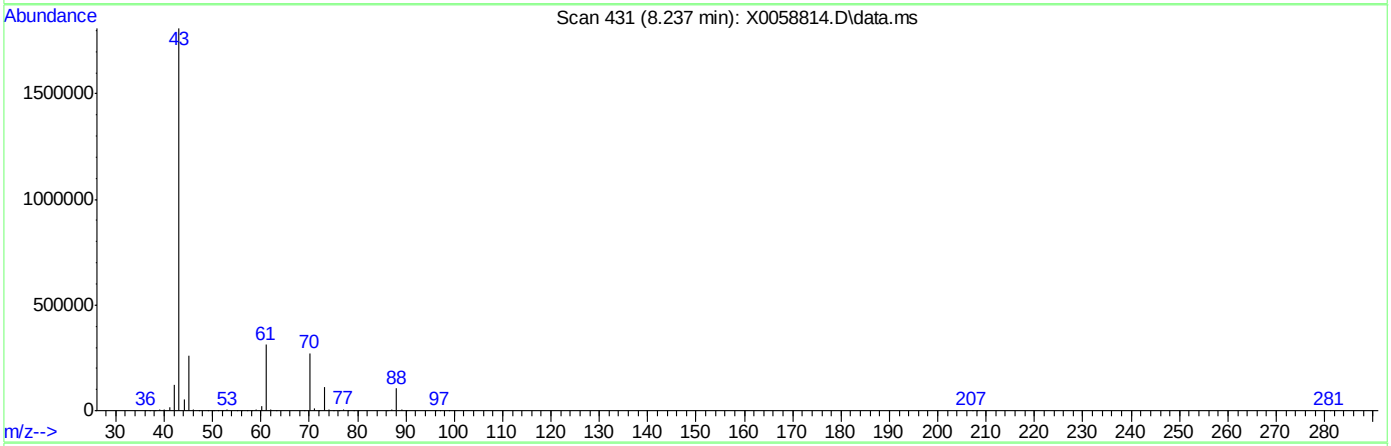




TIC: X0058814.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 1597.72ug/L

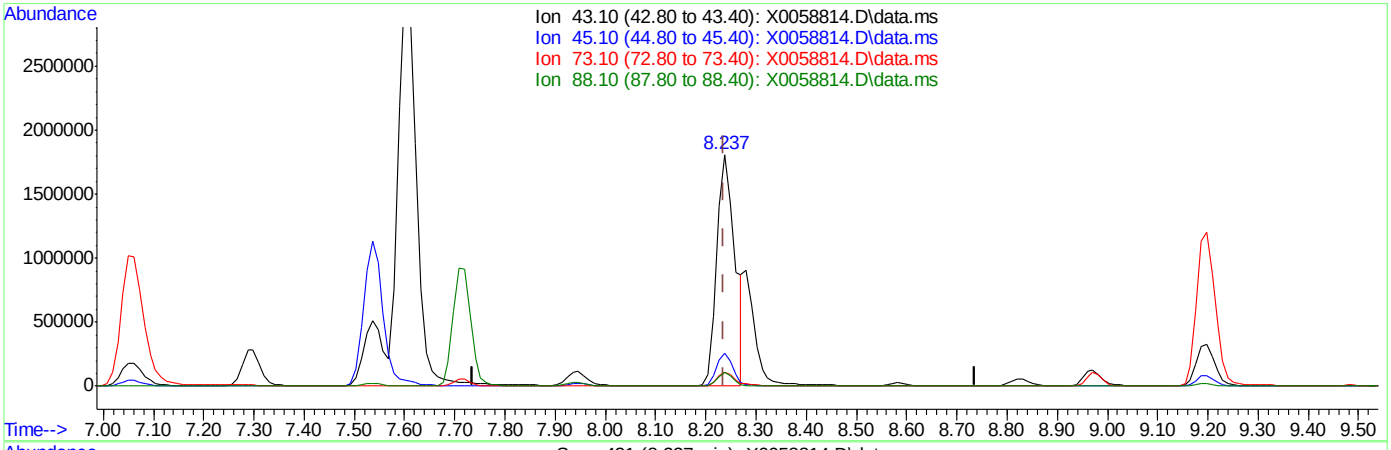
response 5993854

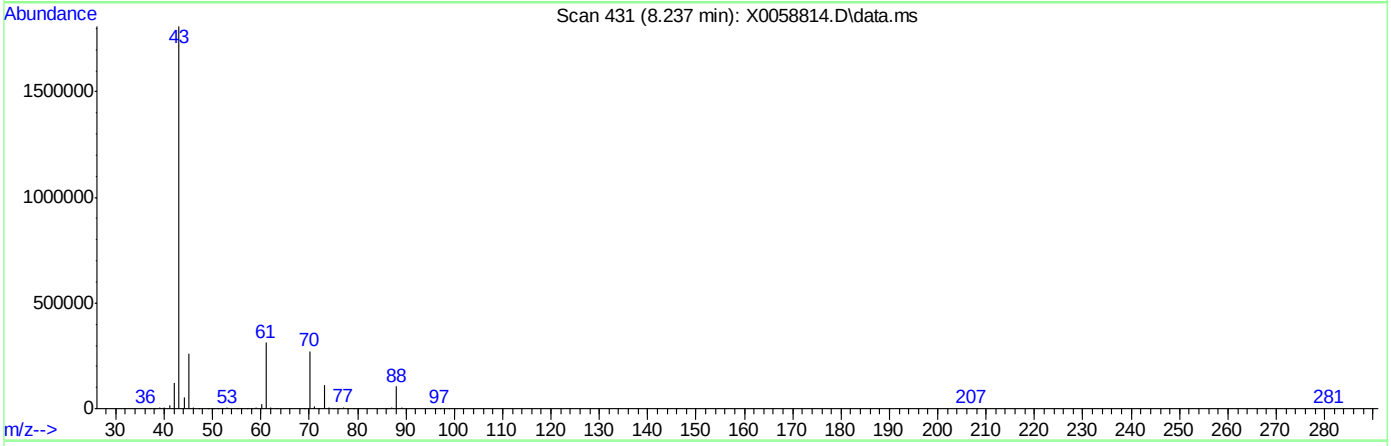
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.29
73.10	5.80	6.12
88.10	5.20	5.76

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration





TIC: X0058814.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 1212.84ug/L m

response 4549980

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.30
73.10	5.80	6.11
88.10	5.20	5.75

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On    :  4 Feb 2010   4:50 pm
Operator  : jennl
Sample    : ic435-200
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Feb 05 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration
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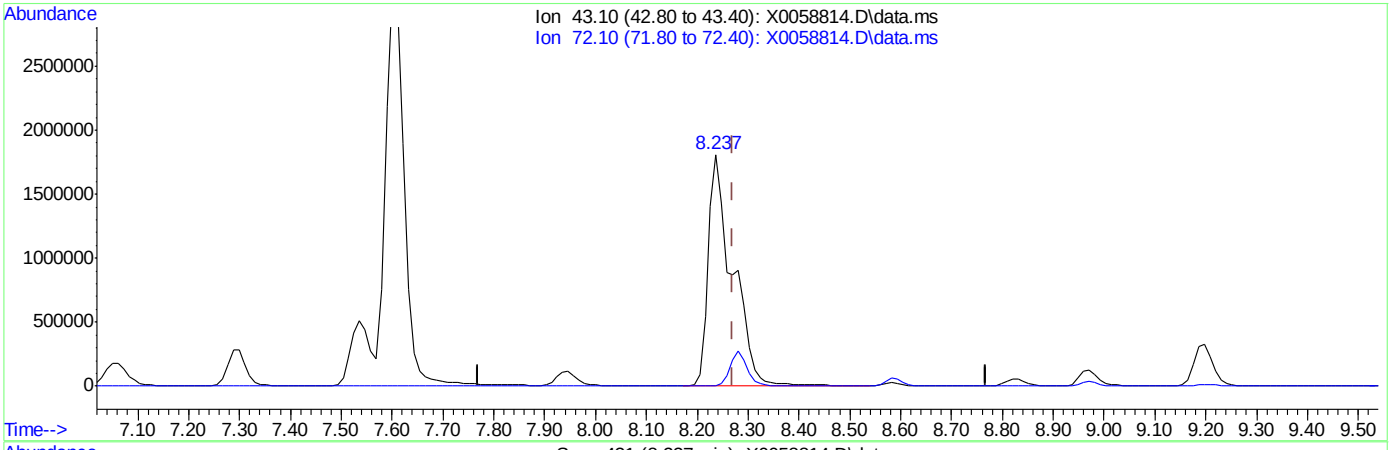
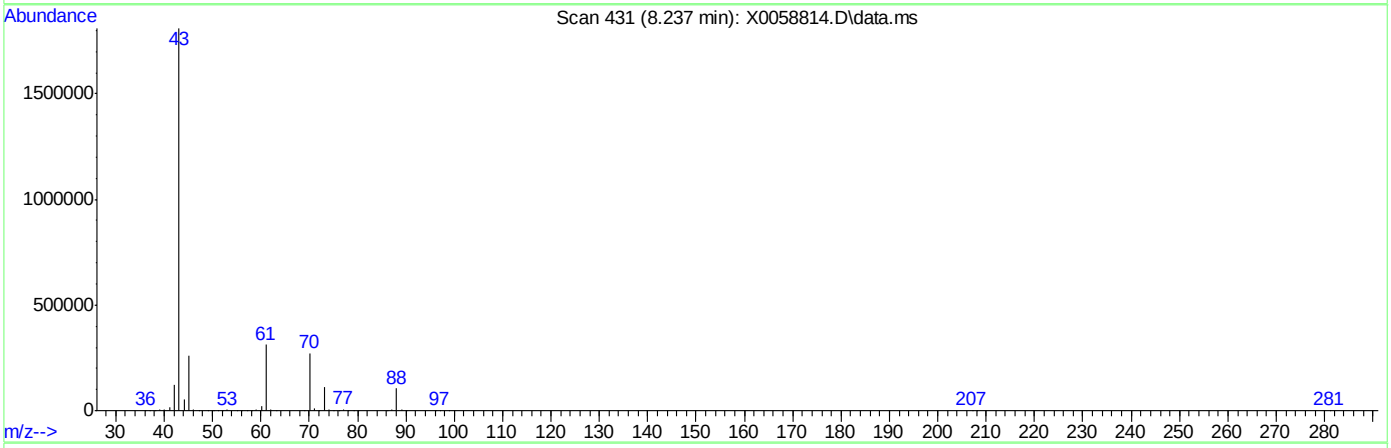




TIC: X0058814.D\data.ms

(32) 2-Butanone

8.237min (-0.032) 2626.77ug/L

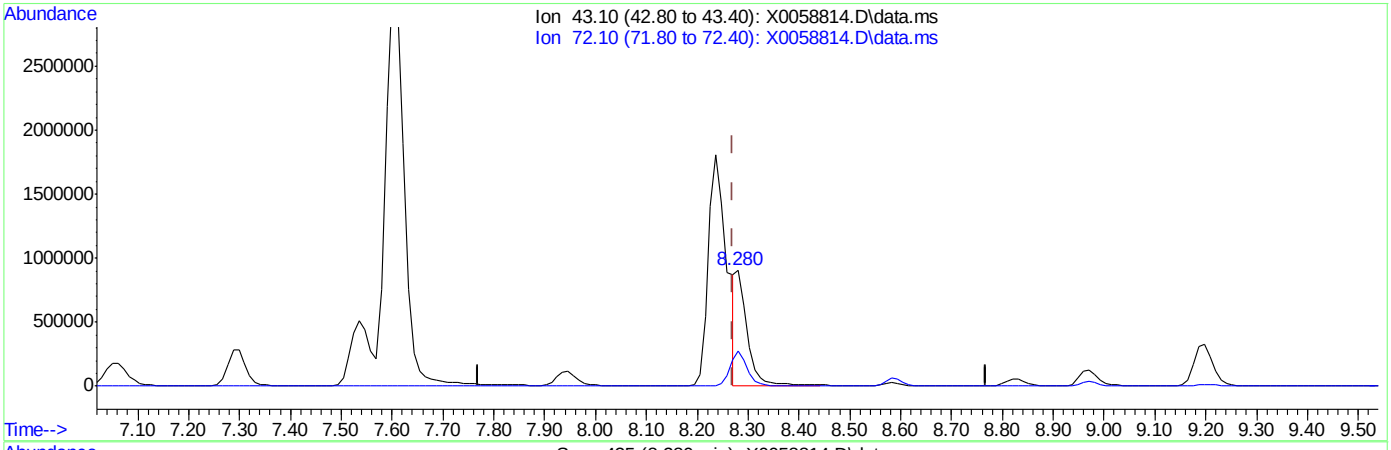
response 5996837

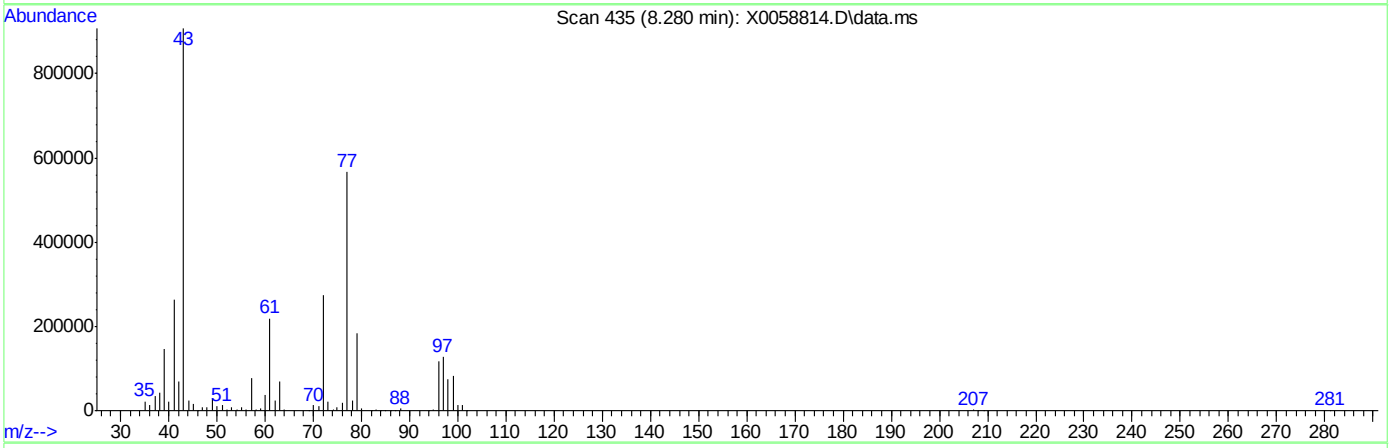
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058814.D
Acq On : 4 Feb 2010 4:50 pm
Operator : jennl
Sample : ic435-200
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:11:20 2010
Response via : Initial Calibration





TIC: X0058814.D\data.ms

(32) 2-Butanone

8.280min (+0.011) 629.66ug/L m

response 1437488

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	30.12
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 13:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 05 09:22:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1667756	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1341090	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	784260	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	784260	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.788	113	346380	47.29	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 94.58%			
44) 1,2-Dichloroethane-d4	9.208	65	320952	43.51	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 87.02%			
61) Toluene-d8	11.097	98	1210934	54.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 108.14%			
82) 4-Bromofluorobenzene	13.880	95	506596	50.05	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 100.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	321318	33.44	ug/L	99
3) Chloromethane	4.191	50	142268	31.90	ug/L	100
4) Vinyl Chloride	4.407	62	155135	36.50	ug/L	100
5) Bromomethane	4.990	94	126791	37.29	ug/L	99
6) Chloroethane	5.130	64	80518	33.10	ug/L	97
7) Trichlorofluoromethane	5.454	101	304774	32.71	ug/L	99
8) Ethyl Ether	5.810	59	77347	32.06	ug/L	97
9) Acrolein	6.122	56	53307	268.38	ug/L	99
10) 1,1-Dichloroethene	6.198	61	278819	34.79	ug/L	99
11) Freon 113	6.112	101	215375	31.56	ug/L	97
12) Acetone	6.295	43	199156	150.50	ug/L	98
13) Iodomethane	6.479	142	373262	31.16	ug/L	97
14) Methyl Acetate	6.640	43	527943	153.89	ug/L	100
15) Carbon Disulfide	6.554	76	481050	22.44	ug/L	100
16) Methylene Chloride	6.856	49	258599	34.45	ug/L	98
17) Tert Butyl Alcohol	6.867	59	116347	289.87	ug/L	97
18) Allyl Chloride	6.662	41	255547	41.18	ug/L	98
19) Acetonitrile	6.759	41	188430	334.71	ug/L	93
20) trans-1,2-Dichloroethene	7.126	61	294099	37.13	ug/L	99
21) Acrylonitrile	7.201	53	437450	269.86	ug/L	99
22) Methyl Tert Butyl Ether	7.050	73	519781	34.63	ug/L	98
23) Hexane	7.299	57	180092	26.55	ug/L	99
24) 1,1-Dichloroethane	7.655	63	377090	35.28	ug/L	99
25) Vinyl Acetate	7.601	43	1434757	162.14	ug/L	100
26) Di-isopropyl ether	7.536	45	556843	35.47	ug/L	99
27) Chloroprene	7.709	53	280605	17.28	ug/L	98
28) Ethyl tert-butyl ether	7.935	59	549132	33.86	ug/L	99
29) 2,2-Dichloropropane	8.280	77	308248	36.90	ug/L	100
30) cis-1,2-Dichloroethene	8.302	96	272171	40.80	ug/L	98
31) Ethyl Acetate	8.237	43	679233m	166.66	ug/L	
32) 2-Butanone	8.280	43	340854m	153.67	ug/L	
33) Propionitrile	8.453	54	243642	338.24	ug/L	99
34) Methacrylonitrile	8.820	41	132840	29.56	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 05 09:22:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Bromochloromethane	8.583	128	142437	35.53 ug/L #	82
36) Chloroform	8.604	83	433165	36.32 ug/kg	99
37) Tetrahydrofuran	8.820	42	53844	29.17 ug/L	99
38) 1,1,1-Trichloroethane	8.820	97	373074	37.40 ug/L	99
40) Cyclohexane	8.820	56	269814	29.98 ug/L	99
41) n-Butyl Alcohol	9.651	56	62121	711.42 ug/L	93
42) 1,1-Dichloropropene	8.971	75	304385	37.38 ug/L	98
43) Carbon Tetrachloride	8.960	117	338486	37.76 ug/L	99
45) Benzene	9.208	78	922402	38.24 ug/L	96
46) Isobutyl Alcohol	9.198	43	160320	375.53 ug/L	93
47) 1,2-Dichloroethane	9.284	62	292551	35.49 ug/L	100
48) tert-amyl methyl ether	9.198	73	564326	36.18 ug/L	97
49) Trichloroethene	9.856	95	261415	40.78 ug/L	98
50) Methylcyclohexane	10.007	83	313229	30.75 ug/L	98
51) Methyl Methacrylate	10.104	41	126413	35.92 ug/L	96
52) 1,2-Dichloropropane	10.158	63	234834	38.64 ug/L	98
53) Dibromomethane	10.298	93	168955	37.30 ug/kg	97
54) 1,4-Dioxane	10.223	88	36447	551.79 ug/L	97
55) Bromodichloromethane	10.406	83	333238	37.16 ug/L	99
56) 2-Nitropropane	10.687	41	203271	166.66 ug/L	98
57) 2-Chloroethyl vinyl ether	10.633	63	672748	193.06 ug/L	99
58) 4-Methyl-2-pentanone	10.935	43	749586	167.22 ug/L	99
59) cis-1,3-Dichloropropene	10.848	75	391067	37.03 ug/L	98
62) Toluene	11.172	91	1044982	37.95 ug/L	99
63) Ethyl Methacrylate	11.355	69	260246	34.26 ug/L	98
64) trans-1,3-Dichloropropene	11.431	75	347503	38.74 ug/L	99
65) 1,1,2-Trichloroethane	11.636	83	197792	36.81 ug/L	99
66) Tetrachloroethene	11.733	166	320046	41.44 ug/L	98
67) 2-hexanone	11.787	43	501705	154.57 ug/L	99
68) 1,3-Dichloropropane	11.830	76	383258	37.55 ug/L	98
69) Dibromochloromethane	12.068	129	284565	38.74 ug/L	99
70) 1,2-Dibromoethane	12.240	107	251531	39.69 ug/L	99
71) 1-Chlorohexane	12.532	91	319124	35.36 ug/L	97
72) Chlorobenzene	12.693	112	771955	38.60 ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.758	131	288597	38.96 ug/L	100
74) Ethylbenzene	12.715	91	1206021	40.35 ug/L	99
75) m,p-Xylene	12.823	91	1896869	78.33 ug/L	99
76) o-Xylene	13.276	91	979194	38.69 ug/L	99
77) Styrene	13.298	104	778662	37.41 ug/L	99
78) Bromoform	13.600	173	192982	34.57 ug/L	98
80) Isopropylbenzene	13.611	105	1204476	43.60 ug/L	100
81) Cyclohexanone	13.880	55	56458	664.58 ug/L #	81
83) Bromobenzene	14.085	156	371083	40.58 ug/L	100
84) 1,1,2,2-Tetrachloroethane	13.999	83	318240	35.90 ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	70239	31.97 ug/L	90
86) 1,2,3-Trichloropropane	14.096	110	81357	32.81 ug/L	97
87) n-Propylbenzene	14.053	91	1438334	38.20 ug/L	99
88) 2-Chlorotoluene	14.236	91	1010154	38.35 ug/L	99
89) 4-Chlorotoluene	14.344	91	902392	37.60 ug/L	100
90) 1,3,5-Trimethylbenzene	14.215	105	1004327	37.83 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 05 09:22:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

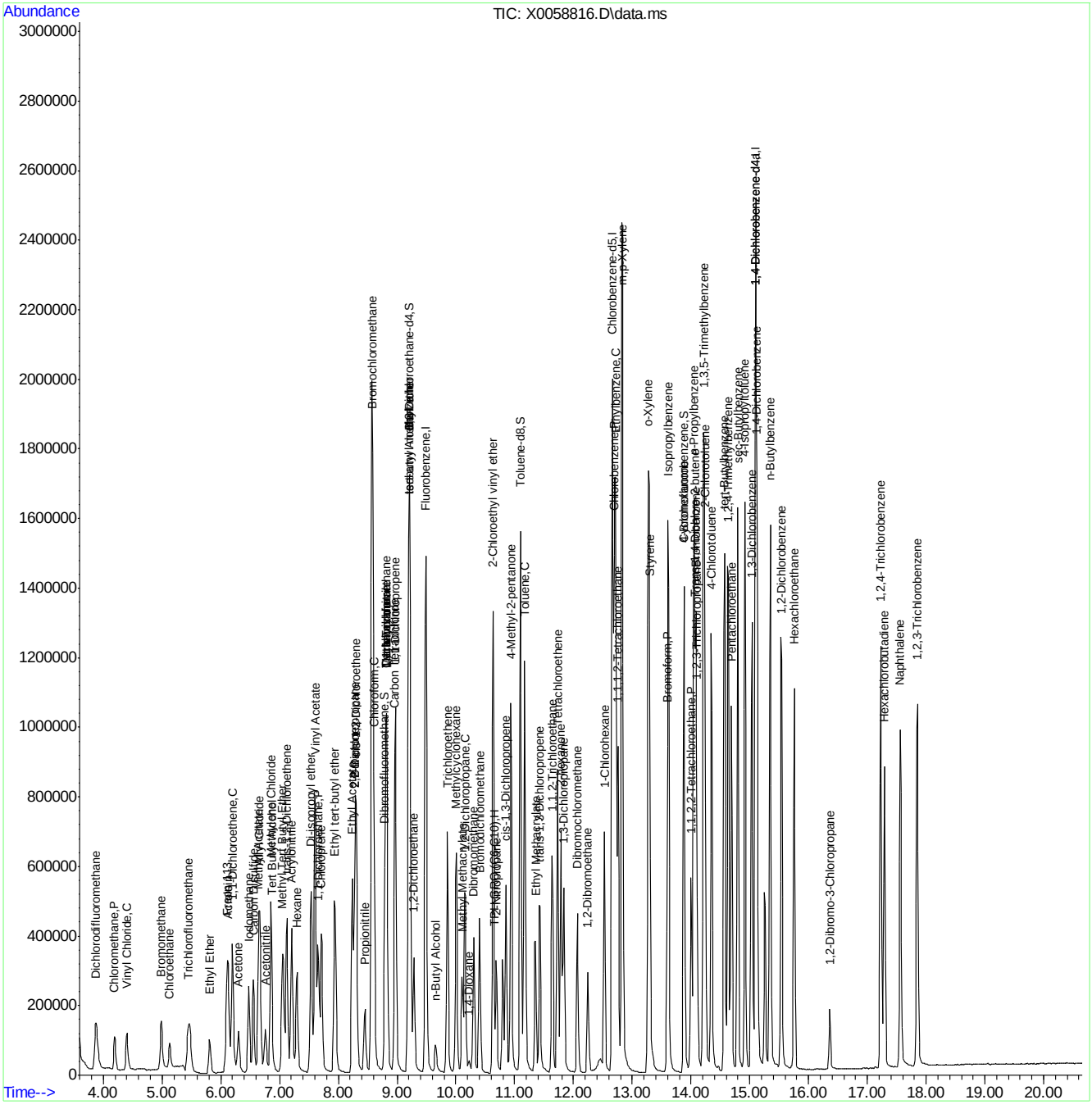
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Pentachloroethane	14.690	167	221424	35.88	ug/L	99
92) sec-Butylbenzene	14.797	105	1326805	37.75	ug/L	100
93) 1,3-Dichlorobenzene	15.035	146	672131	40.63	ug/L	99
94) 4-Isopropyltoluene	14.916	119	1065205	37.98	ug/L	99
95) 1,4-Dichlorobenzene	15.121	146	716702	38.11	ug/L	99
96) tert-Butylbenzene	14.571	91	564916	37.23	ug/L	98
97) n-Butylbenzene	15.348	91	1017130	36.32	ug/L	99
98) 1,2-Dichlorobenzene	15.542	146	676985	39.89	ug/L	96
99) 1,2,4-Trimethylbenzene	14.625	105	1048882	38.04	ug/L	99
100) Hexachloroethane	15.758	119	237054	41.35	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	16.362	75	51217	33.66	ug/L	98
102) 1,2,4-Trichlorobenzene	17.225	180	505341	36.71	ug/L	99
103) Hexachlorobutadiene	17.290	225	217306	40.46	ug/L	98
104) Naphthalene	17.560	128	1042258	34.86	ug/L	100
105) 1,2,3-Trichlorobenzene	17.851	180	489390	39.97	ug/L	98
107) TPH-GRO (C6-C10)	10.659	TIC	85905918m	2204.53	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

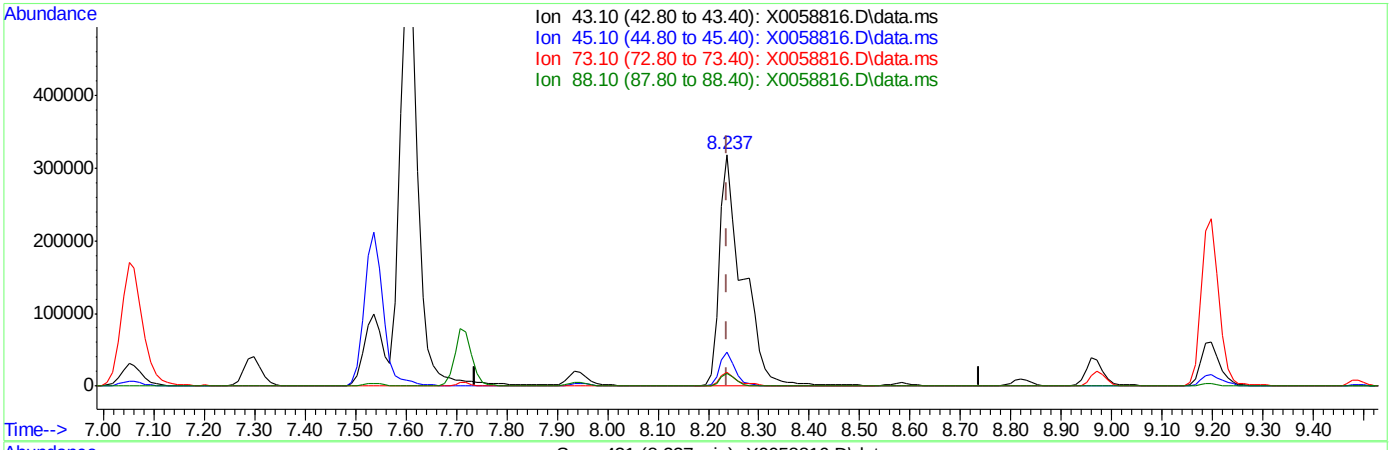
Quant Time: Feb 05 09:22:19 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

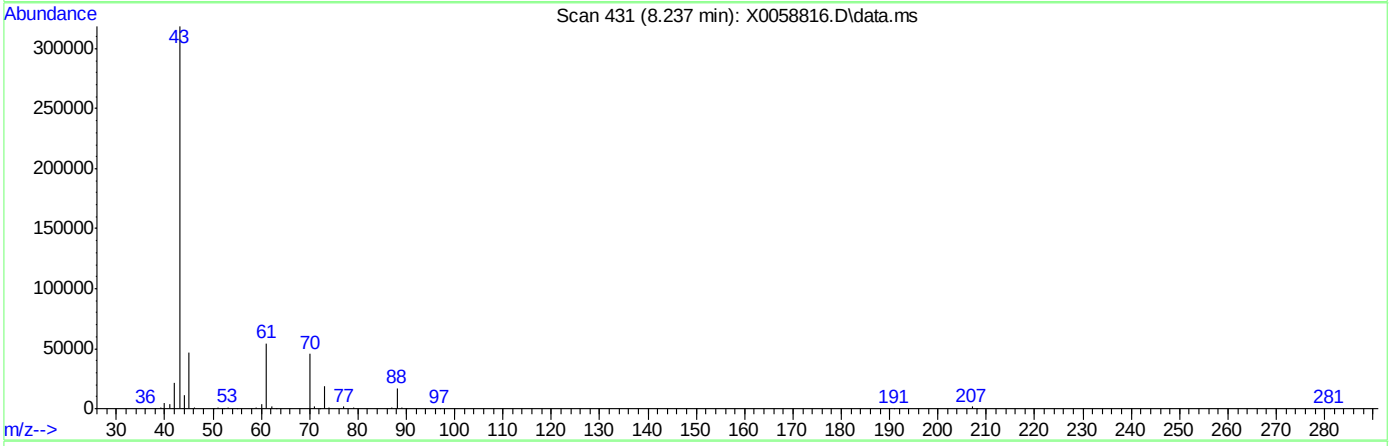


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 05 09:22:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (+0.000) 243.78ug/L

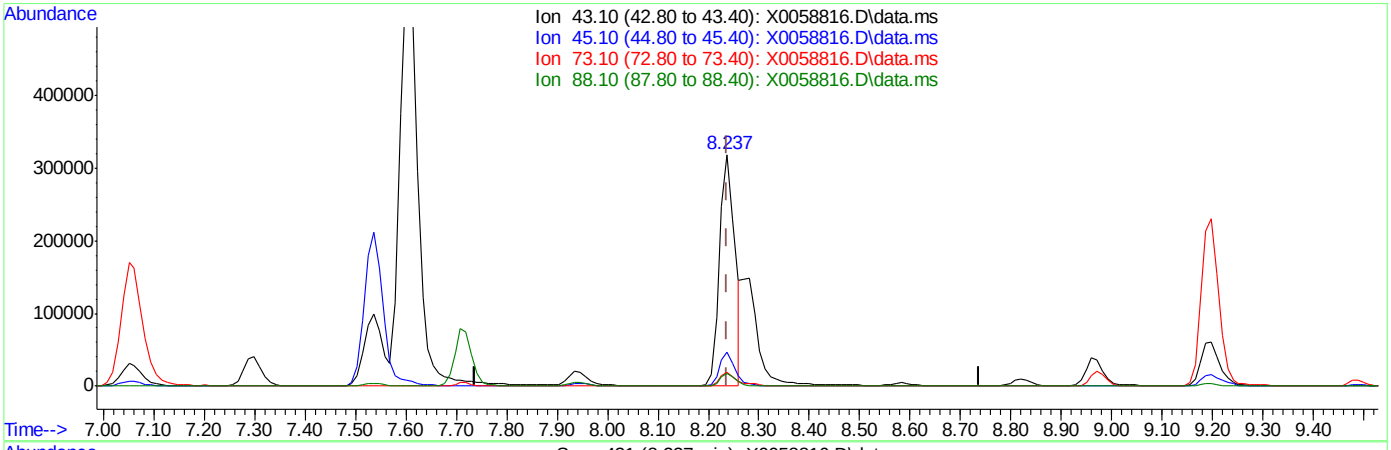
response 1016439

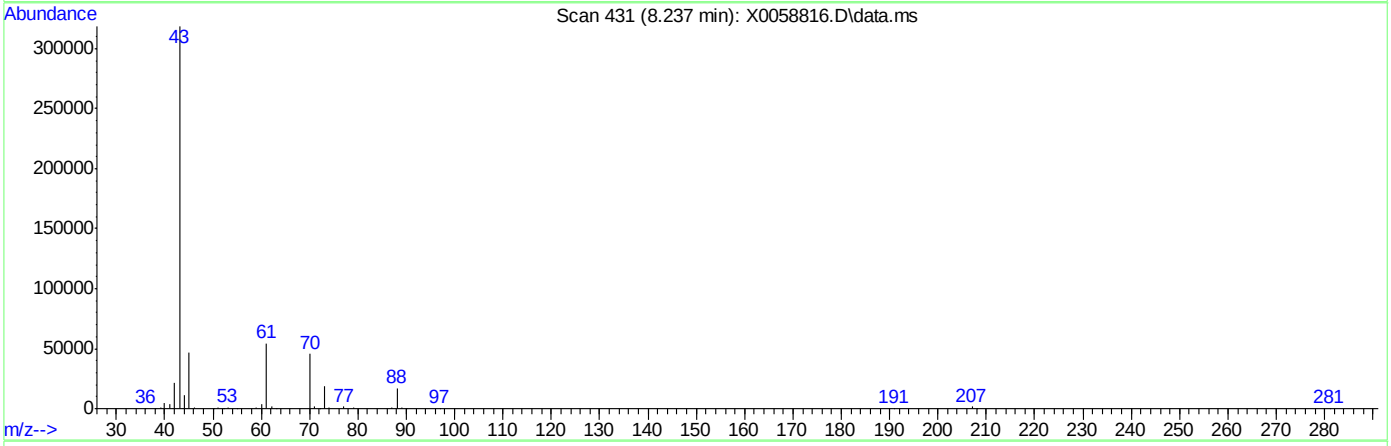
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.70
73.10	5.80	5.82
88.10	5.20	5.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On : 4 Feb 2010 5:47 pm
Operator : jennl
Sample : icv435-40
Misc : ms7475,vx435,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 05 09:22:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (+0.000) 166.66ug/L m

response 679233

Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.67
73.10	5.80	5.81
88.10	5.20	5.41

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On    :  4 Feb 2010   5:47 pm
Operator  : jennl
Sample    : icv435-40
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Feb 05 09:22:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
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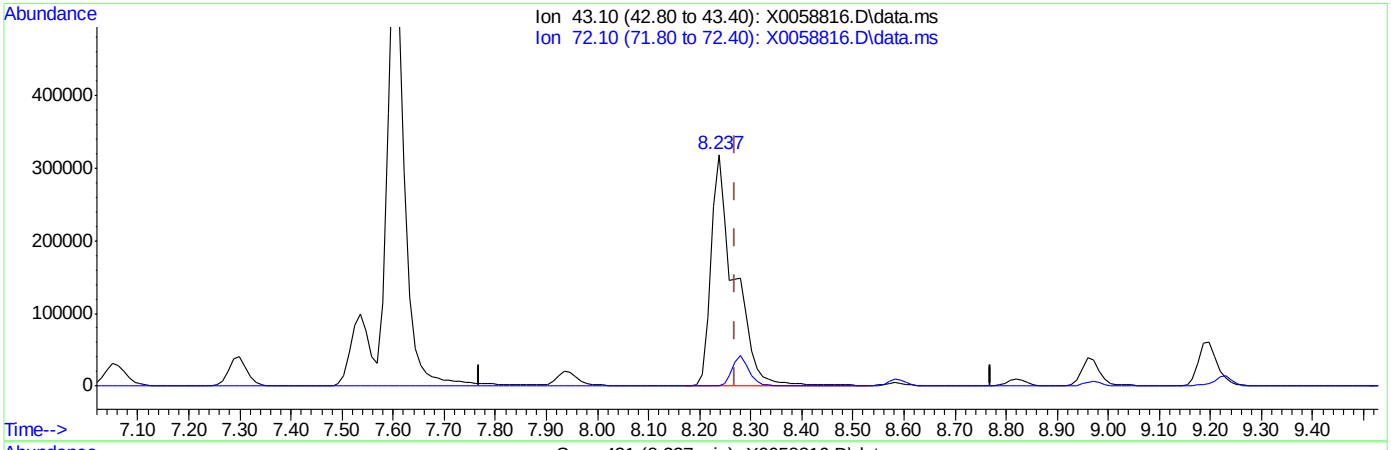
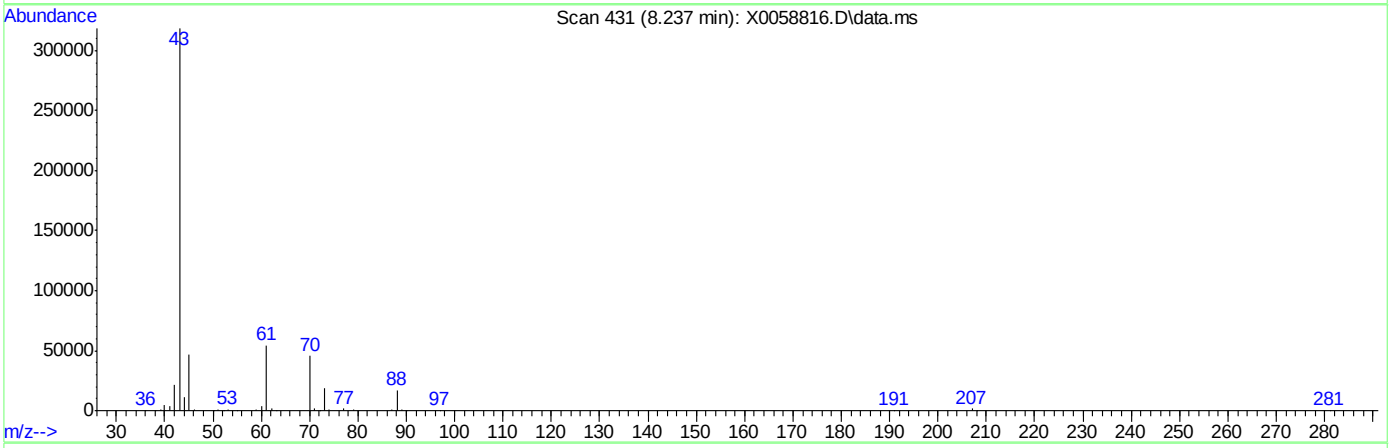




(32) 2-Butanone

8.237min (-0.033) 570.59ug/L

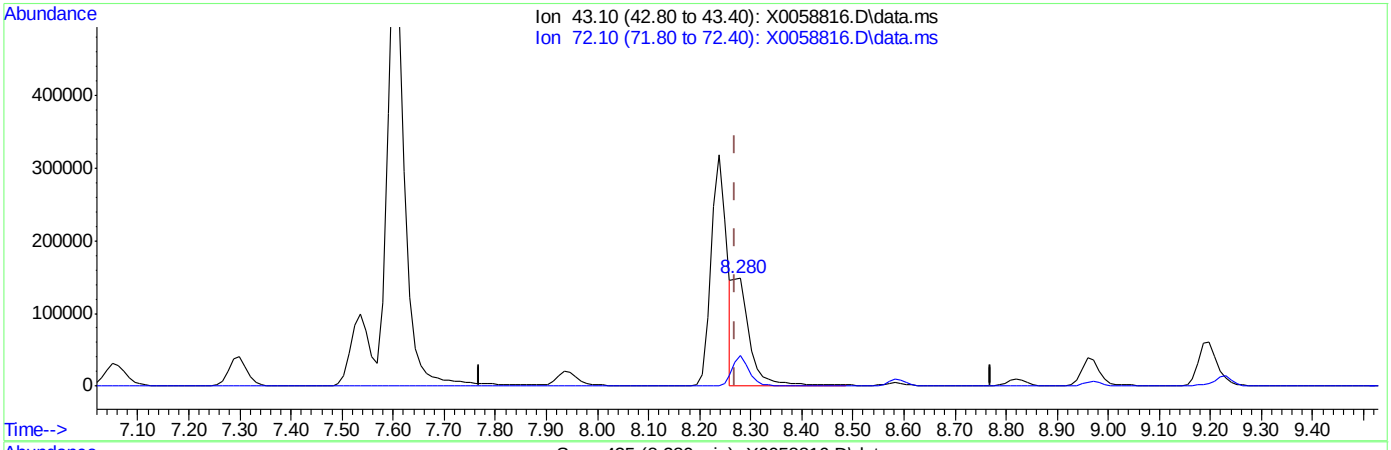
response 1016727

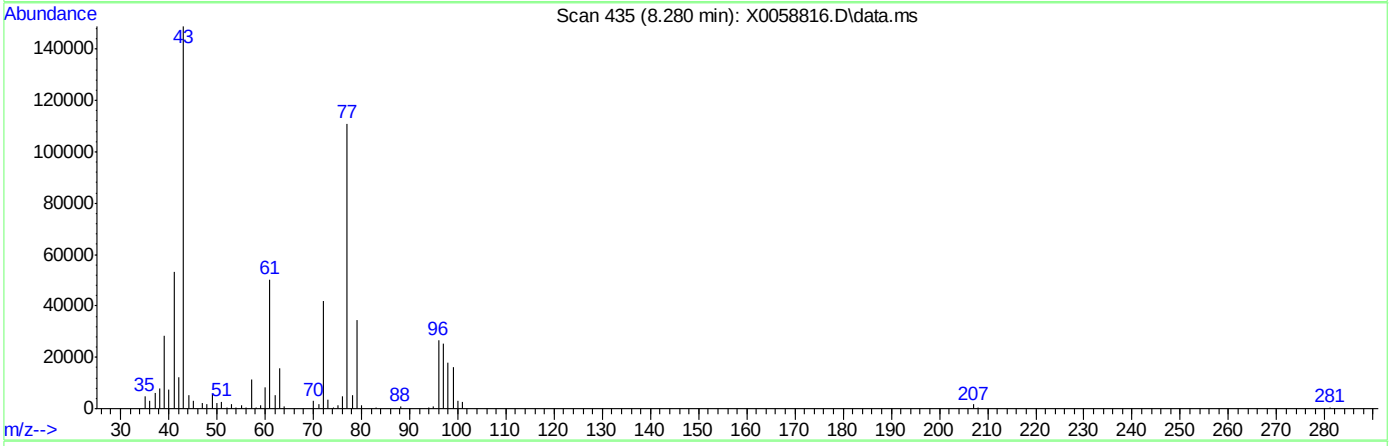
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX435\
Data File : X0058816.D
Acq On    :  4 Feb 2010   5:47 pm
Operator  : jennl
Sample    : icv435-40
Misc      : ms7475,vx435,5.,,,5,,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Feb 05 09:22:01 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration
```



TIC: X0058816.D\data.ms

(32) 2-Butanone

8.280min (+0.010) 153.67ug/L m

response 340854

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	28.22
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/08/10 11:10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:48 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.467	96	1884932	50.00	ug/L	-0.02
60) Chlorobenzene-d5	12.650	117	1651849	50.00	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	15.089	152	1032104	50.00	ug/L	-0.01
106) 1,4-Dichlorobenzene-d4a	15.089	152	1032104	50.00	ug/L	-0.01
System Monitoring Compounds						
39) Dibromofluoromethane	8.777	113	359820	43.47	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 86.94%			
44) 1,2-Dichloroethane-d4	9.187	65	404947	48.57	ug/L	-0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 97.14%			
61) Toluene-d8	11.086	98	1160267	42.06	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 84.12%#			
82) 4-Bromofluorobenzene	13.870	95	489115	36.94	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 73.88%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.857	85	423265	38.97	ug/L	99
3) Chloromethane	4.180	50	240500	47.72	ug/L	100
4) Vinyl Chloride	4.385	62	228849	47.64	ug/L	98
5) Bromomethane	4.968	94	209113	55.92	ug/L	99
6) Chloroethane	5.119	64	133476	48.55	ug/L	96
7) Trichlorofluoromethane	5.454	101	511958	48.62	ug/L	99
8) Ethyl Ether	5.799	59	136455	50.05	ug/L	97
9) Acrolein	6.112	56	44698	199.11	ug/L	99
10) 1,1-Dichloroethene	6.176	61	399398	44.09	ug/L	90
11) Freon 113	6.101	101	280757	36.40	ug/L	97
12) Acetone	6.284	43	384793	262.55	ug/L	89
13) Iodomethane	6.457	142	532285	39.32	ug/L	93
14) Methyl Acetate	6.619	43	909925	234.68	ug/L	94
15) Carbon Disulfide	6.543	76	916409	37.82	ug/L	90
16) Methylene Chloride	6.835	49	376910	44.42	ug/L	87
17) Tert Butyl Alcohol	6.845	59	188589	402.79	ug/L	92
18) Allyl Chloride	6.651	41	319802	45.60	ug/L	91
19) Acetonitrile	6.738	41	67487	106.07	ug/L	96
20) trans-1,2-Dichloroethene	7.104	61	400703	44.76	ug/L	92
21) Acrylonitrile	7.191	53	412706	225.26	ug/L	98
22) Methyl Tert Butyl Ether	7.040	73	706552	41.25	ug/L	96
23) Hexane	7.277	57	268559	35.28	ug/L	93
24) 1,1-Dichloroethane	7.644	63	529811	43.86	ug/L	99
25) Vinyl Acetate	7.590	43	2415555	250.74	ug/L	97
26) Di-isopropyl ether	7.514	45	773250	43.73	ug/L	92
27) Chloroprene	7.698	53	854995	46.59	ug/L	92
28) Ethyl tert-butyl ether	7.924	59	782322	42.40	ug/L	100
29) 2,2-Dichloropropane	8.270	77	451341	47.80	ug/L	96
30) cis-1,2-Dichloroethene	8.291	96	315345	41.82	ug/L	94
31) Ethyl Acetate	8.216	43	1162832m	246.62	ug/L	
32) 2-Butanone	8.259	43	511335m	211.36	ug/L	
33) Propionitrile	8.431	54	172098	214.44	ug/L	97
34) Methacrylonitrile	8.809	41	223576	45.63	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:48 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.572	128	194092	42.83	ug/L	93
36) Chloroform	8.593	83	594962	44.14	ug/kg	97
37) Tetrahydrofuran	8.809	42	89355	44.88	ug/L	95
38) 1,1,1-Trichloroethane	8.798	97	519107	46.05	ug/L	97
40) Cyclohexane	8.809	56	387926	38.77	ug/L	95
41) n-Butyl Alcohol	9.640	56	41577	428.01	ug/L	92
42) 1,1-Dichloropropene	8.960	75	384322	41.87	ug/L	93
43) Carbon Tetrachloride	8.949	117	491061	48.46	ug/L	100
45) Benzene	9.198	78	1158066	42.48	ug/L	94
46) Isobutyl Alcohol	9.176	43	244015	508.03	ug/L	98
47) 1,2-Dichloroethane	9.273	62	455352	48.88	ug/L	99
48) tert-amyl methyl ether	9.176	73	775449	44.02	ug/L	94
49) Trichloroethene	9.834	95	312257	43.10	ug/L	96
50) Methylcyclohexane	9.985	83	412211	35.72	ug/L	94
51) Methyl Methacrylate	10.093	41	199353	48.64	ug/L	89
52) 1,2-Dichloropropane	10.136	63	315619	45.95	ug/L	94
53) Dibromomethane	10.287	93	226759	44.29	ug/kg	98
54) 1,4-Dioxane	10.212	88	49296	644.77	ug/L	98
55) Bromodichloromethane	10.384	83	457961	45.18	ug/L	98
56) 2-Nitropropane	10.676	41	412075	298.94	ug/L	98
57) 2-Chloroethyl vinyl ether	10.611	63	960388	248.57	ug/L	93
58) 4-Methyl-2-pentanone	10.924	43	1330046	269.44	ug/L	95
59) cis-1,3-Dichloropropene	10.838	75	515005	43.00	ug/L	95
62) Toluene	11.151	91	1296856	38.25	ug/L	99
63) Ethyl Methacrylate	11.334	69	360862	38.08	ug/L	99
64) trans-1,3-Dichloropropene	11.409	75	468751	42.30	ug/L	93
65) 1,1,2-Trichloroethane	11.625	83	262683	39.69	ug/L	97
66) Tetrachloroethene	11.712	166	378146	39.75	ug/L	97
67) 2-hexanone	11.776	43	979207	244.08	ug/L	93
68) 1,3-Dichloropropane	11.819	76	540409	42.98	ug/L	93
69) Dibromochloromethane	12.057	129	395125	43.68	ug/L	99
70) 1,2-Dibromoethane	12.229	107	323873	41.49	ug/L	99
71) 1-Chlorohexane	12.510	91	389739	35.07	ug/L	83
72) Chlorobenzene	12.683	112	1004660	40.78	ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.747	131	392244	42.99	ug/L	97
74) Ethylbenzene	12.704	91	1574222	42.76	ug/L	99
75) m,p-Xylene	12.812	91	2499452	84.28	ug/L	99
76) o-Xylene	13.255	91	1264539	40.62	ug/L	98
77) Styrene	13.276	104	1011164	39.48	ug/L	93
78) Bromoform	13.578	173	284627	40.71	ug/L	96
80) Isopropylbenzene	13.600	105	1338461	36.82	ug/L	100
81) Cyclohexanone	13.870	55	47316	439.42	ug/L	97
83) Bromobenzene	14.075	156	481846	40.04	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.988	83	454332	38.94	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.053	53	133761	46.62	ug/L	93
86) 1,2,3-Trichloropropane	14.085	110	133232	40.83	ug/L	97
87) n-Propylbenzene	14.031	91	1914751	38.67	ug/L	98
88) 2-Chlorotoluene	14.215	91	1358384	39.24	ug/L	97
89) 4-Chlorotoluene	14.333	91	1190596	37.70	ug/L	100
90) 1,3,5-Trimethylbenzene	14.193	105	1337292	38.28	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:48 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Pentachloroethane	14.679	167	343234	42.26 ug/L	100
92) sec-Butylbenzene	14.787	105	1738411	37.59 ug/L	99
93) 1,3-Dichlorobenzene	15.024	146	865600	39.76 ug/L	99
94) 4-Isopropyltoluene	14.905	119	1415483	38.35 ug/L	100
95) 1,4-Dichlorobenzene	15.110	146	951685	38.45 ug/L	99
96) tert-Butylbenzene	14.549	91	770035	38.56 ug/L	95
97) n-Butylbenzene	15.337	91	1393394	37.87 ug/L	99
98) 1,2-Dichlorobenzene	15.520	146	886348	39.69 ug/L	99
99) 1,2,4-Trimethylbenzene	14.614	105	1369182	37.73 ug/L	100
100) Hexachloroethane	15.747	119	332700	44.10 ug/L	98
101) 1,2-Dibromo-3-Chloropr...	16.351	75	90150	45.01 ug/L	95
102) 1,2,4-Trichlorobenzene	17.214	180	668120	36.87 ug/L	99
103) Hexachlorobutadiene	17.279	225	276284	39.09 ug/L	99
104) Naphthalene	17.549	128	1509341	38.08 ug/L	100
105) 1,2,3-Trichlorobenzene	17.829	180	667144	41.40 ug/L	98
107) TPH-GRO (C6-C10)	10.655	TIC	121700758m	2129.79 ug/kg	

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

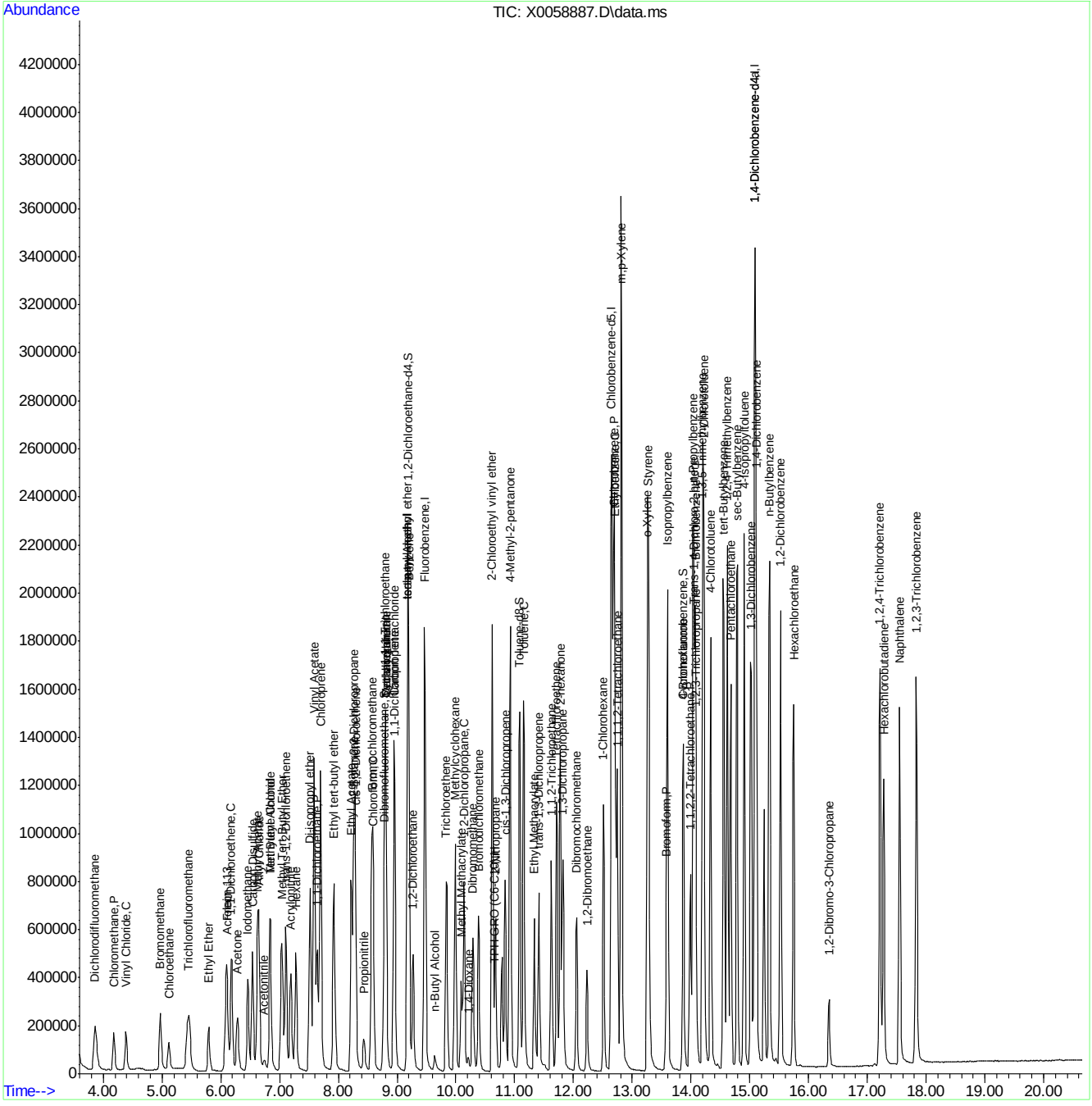
6.6.8

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

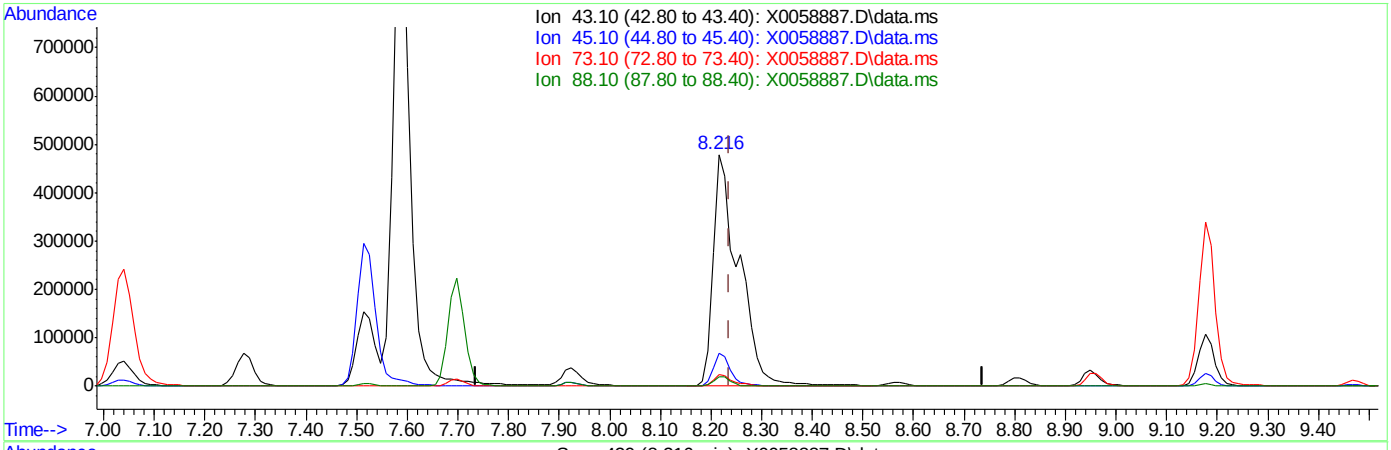
Quant Time: Feb 07 11:40:48 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

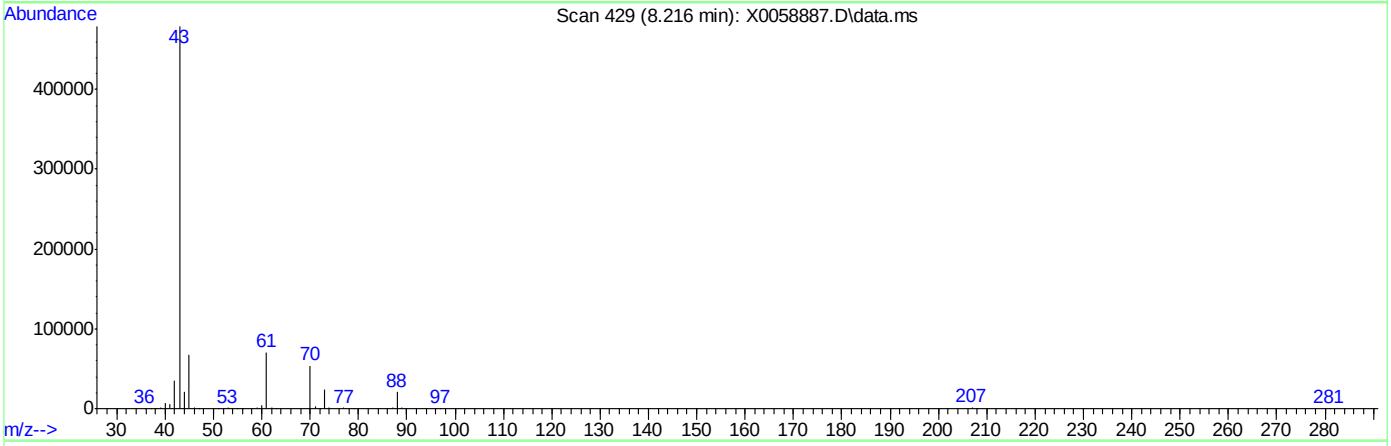


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:24 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058887.D\data.ms

(31) Ethyl Acetate

8.216min (-0.021) 349.03ug/L

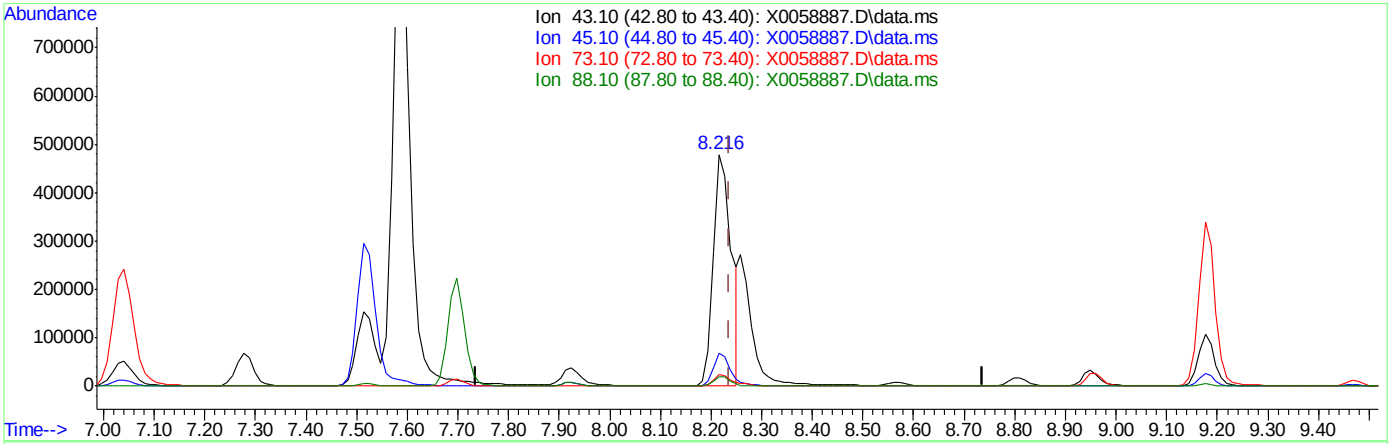
response 1668925

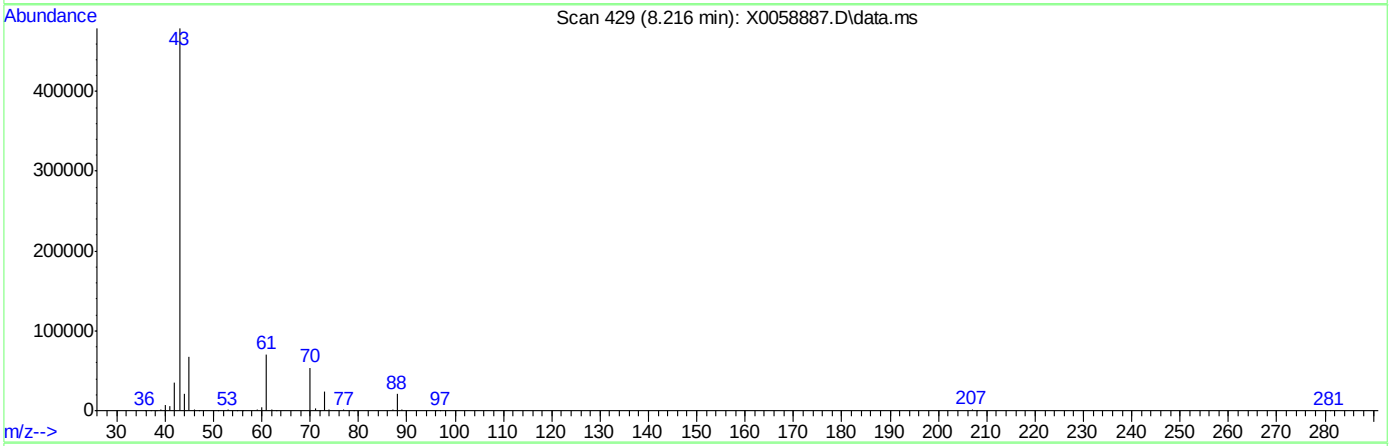
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.01
73.10	5.80	4.88
88.10	5.20	4.30

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:24 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058887.D\data.ms

(31) Ethyl Acetate

8.216min (-0.021) 246.62ug/L m

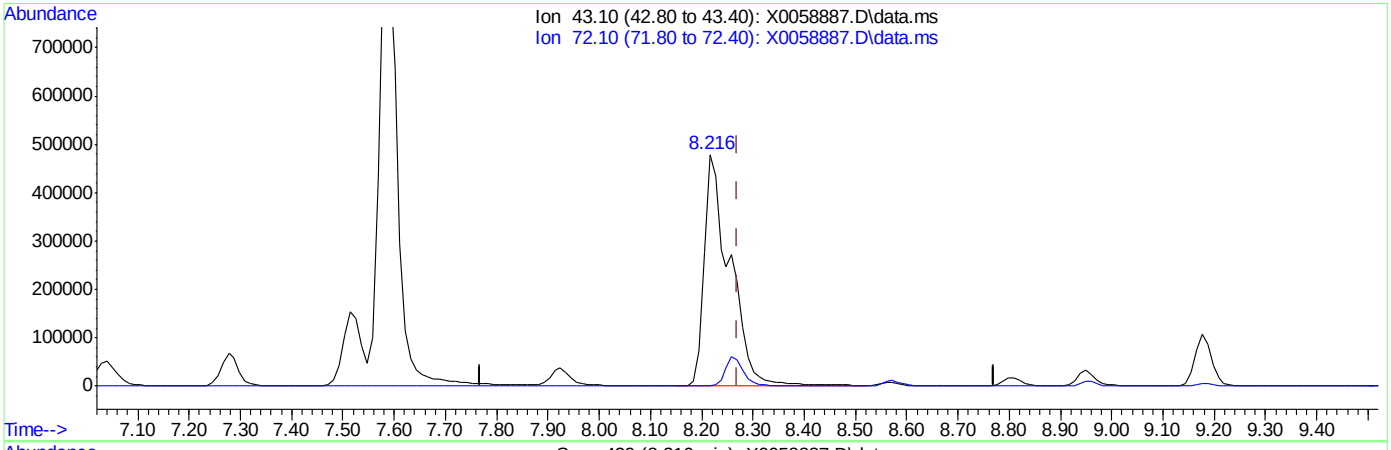
response 1162832

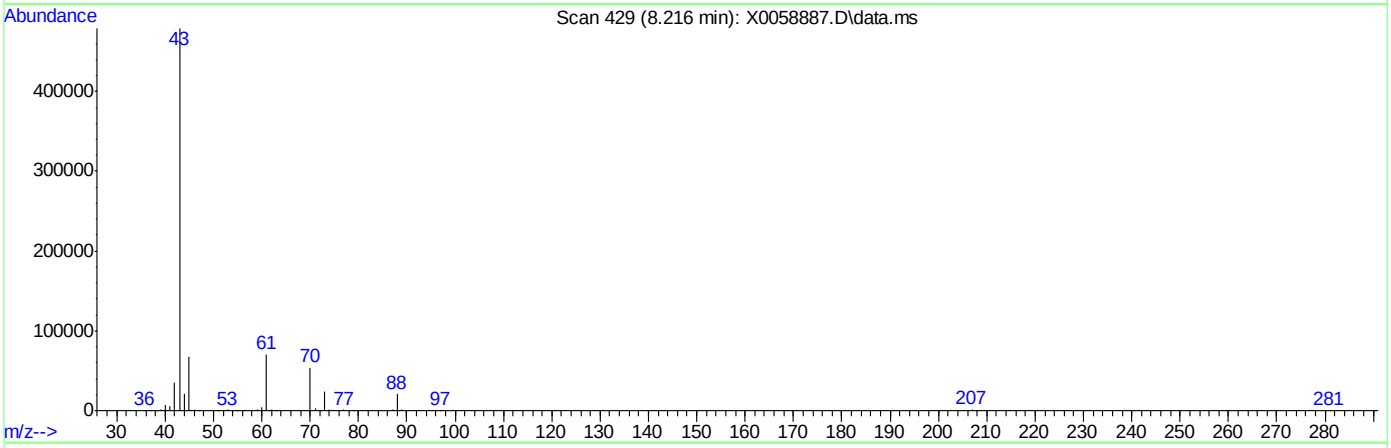
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	13.98
73.10	5.80	4.87
88.10	5.20	4.29

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:24 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058887.D\data.ms

(32) 2-Butanone

8.216min (-0.054) -50.00ug/L

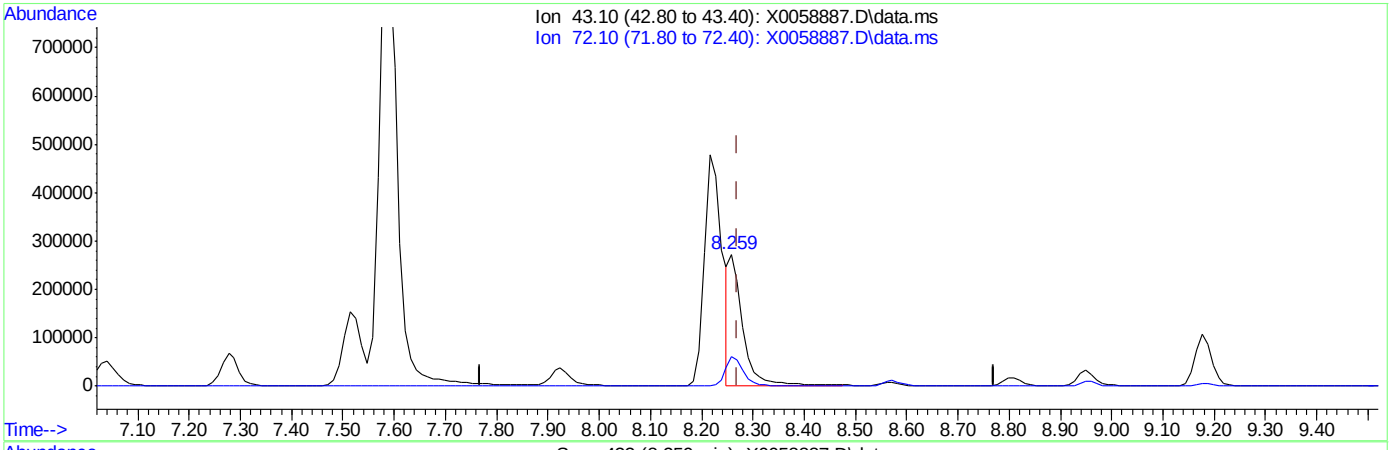
response 1668925

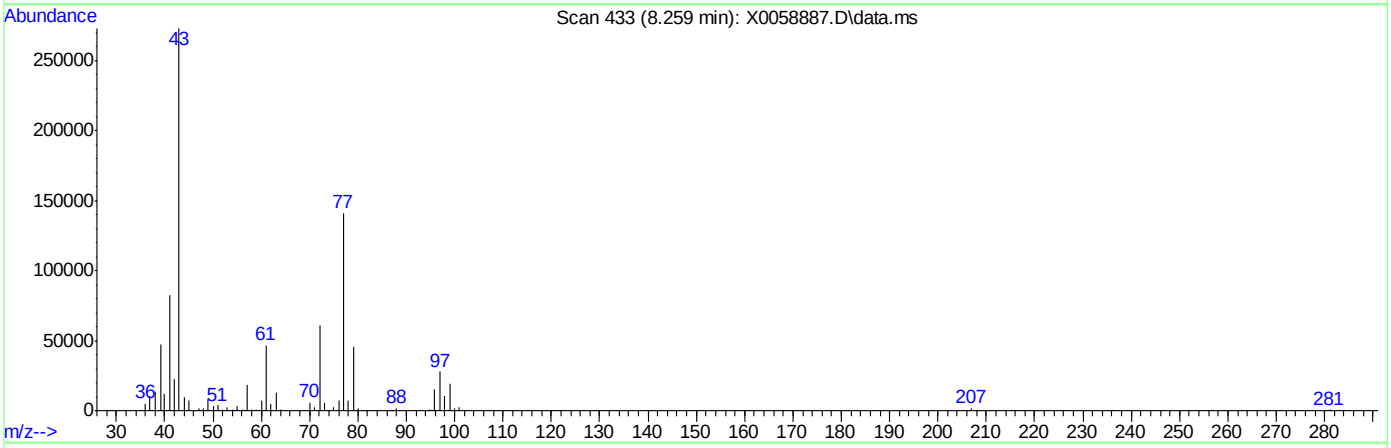
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX438\
Data File : X0058887.D
Acq On : 7 Feb 2010 11:17 am
Operator : jennl
Sample : cc435-40
Misc : ms7502,vx438,5.,,,5,,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:40:24 2010
Quant Method : C:\msdchem\1\METHODS\vx435ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058887.D\data.ms

(32) 2-Butanone

8.259min (-0.011) 211.36ug/L m

response 511335

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	22.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:18:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1540426	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1341145	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	783336	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	783336	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	14404	1.89	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 3.78%#			
44) 1,2-Dichloroethane-d4	9.208	65	17467	2.06	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 4.12%#			
61) Toluene-d8	11.096	98	33896	1.49	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 2.98%#			
82) 4-Bromofluorobenzene	13.891	95	12501	1.47	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.94%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	21193	1.88	ug/L	98
3) Chloromethane	4.180	50	13376	2.37	ug/L	98
4) Vinyl Chloride	4.385	62	10891	2.04	ug/L	97
5) Bromomethane	4.989	94	11798	2.45	ug/L	92
6) Chloroethane	5.130	64	7398	2.38	ug/L	96
7) Trichlorofluoromethane	5.464	101	24763	2.00	ug/L	91
8) Ethyl Ether	5.809	59	6017	2.27	ug/L	95
9) Acrolein	6.122	56	1712	10.15	ug/L	98
10) 1,1-Dichloroethene	6.198	61	16982	2.10	ug/L	96
11) Freon 113	6.112	101	14325	2.07	ug/L	98
12) Acetone	6.306	43	20199	14.49	ug/L	96
13) Iodomethane	6.478	142	21055	1.98	ug/L	96
14) Methyl Acetate	6.640	43	39042	11.75	ug/L	95
15) Carbon Disulfide	6.554	76	39404	2.05	ug/L	95
16) Methylene Chloride	6.856	49	19972	2.53	ug/L	97
17) Tert Butyl Alcohol	6.856	59	6391	20.92	ug/L	59
18) Allyl Chloride	6.673	41	13457	1.76	ug/L	94
19) Acetonitrile	6.759	41	4405	7.67	ug/L #	46
20) trans-1,2-Dichloroethene	7.126	61	14764	1.84	ug/L	97
21) Acrylonitrile	7.212	53	14187	9.71	ug/L	93
22) Methyl Tert Butyl Ether	7.050	73	20154	1.58	ug/L	89
23) Hexane	7.298	57	7411	1.32	ug/L	75
24) 1,1-Dichloroethane	7.654	63	23236	2.11	ug/L	100
25) Vinyl Acetate	7.611	43	56571	6.75	ug/L	95
26) Di-isopropyl ether	7.536	45	21122	1.48	ug/L	79
27) Chloroprene	7.708	53	27972	1.37	ug/L	96
28) Ethyl tert-butyl ether	7.935	59	20187	1.40	ug/L	99
29) 2,2-Dichloropropane	8.291	77	18287	1.92	ug/L	98
30) cis-1,2-Dichloroethene	8.302	96	10822	1.74	ug/L	95
31) Ethyl Acetate	8.237	43	30522m	8.62	ug/L	
32) 2-Butanone	8.280	43	20293m	9.86	ug/L	
33) Propionitrile	8.464	54	5409	8.66	ug/L	97
34) Methacrylonitrile	8.820	41	6922m	1.48	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:18:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Bromochloromethane	8.582	128	7838	2.03	ug/L		86
36) Chloroform	8.604	83	25372	2.07	ug/kg		95
37) Tetrahydrofuran	8.820	42	2408	1.27	ug/L		87
38) 1,1,1-Trichloroethane	8.820	97	21718	2.00	ug/L		97
40) Cyclohexane	8.820	56	9425	1.22	ug/L		91
42) 1,1-Dichloropropene	8.971	75	9527	1.30	ug/L		88
43) Carbon Tetrachloride	8.960	117	20704	1.99	ug/L		98
45) Benzene	9.208	78	40720	1.76	ug/L		93
46) Isobutyl Alcohol	9.197	43	6935	15.58	ug/L		83
47) 1,2-Dichloroethane	9.284	62	18683	2.06	ug/L		99
48) tert-amyl methyl ether	9.197	73	17717	1.29	ug/L		87
49) Trichloroethene	9.856	95	10380	1.75	ug/L		97
50) Methylcyclohexane	10.007	83	9174	1.10	ug/L		89
51) Methyl Methacrylate	10.158	41	12301	3.00	ug/L	#	24
52) 1,2-Dichloropropane	10.158	63	10440	1.74	ug/L		86
53) Dibromomethane	10.309	93	8404	1.94	ug/kg		97
54) 1,4-Dioxane	10.233	88	767	20.51	ug/L		75
55) Bromodichloromethane	10.406	83	17429	1.93	ug/L		98
56) 2-Nitropropane	10.686	41	13544	9.45	ug/L		83
57) 2-Chloroethyl vinyl ether	10.643	63	16339	5.25	ug/L		98
58) 4-Methyl-2-pentanone	10.945	43	33696	7.66	ug/L		92
59) cis-1,3-Dichloropropene	10.859	75	12576	1.35	ug/L		91
62) Toluene	11.172	91	34792	1.45	ug/L		98
63) Ethyl Methacrylate	11.355	69	5561	0.96	ug/L		81
64) trans-1,3-Dichloropropene	11.442	75	11755	1.42	ug/L		96
65) 1,1,2-Trichloroethane	11.647	83	10235	2.02	ug/L		98
66) Tetrachloroethene	11.733	166	12816	1.74	ug/L		91
67) 2-hexanone	11.809	43	18755	6.19	ug/L		89
68) 1,3-Dichloropropane	11.841	76	17666	1.75	ug/L		85
69) Dibromochloromethane	12.067	129	13612	1.83	ug/L		99
70) 1,2-Dibromoethane	12.251	107	10550	1.80	ug/L		99
71) 1-Chlorohexane	12.531	91	6782	0.96	ug/L		76
72) Chlorobenzene	12.693	112	41605	2.08	ug/L		99
73) 1,1,1,2-Tetrachloroethane	12.758	131	15809	2.02	ug/L	#	81
74) Ethylbenzene	12.715	91	52571	1.74	ug/L		97
75) m,p-Xylene	12.834	91	64986	2.78	ug/L		98
76) o-Xylene	13.276	91	25547	1.13	ug/L		98
77) Styrene	13.297	104	18258	1.00	ug/L		91
78) Bromoform	13.600	173	9105	1.76	ug/L		92
80) Isopropylbenzene	13.621	105	25322	1.16	ug/L		98
81) Cyclohexanone	13.891	55	270	4.75	ug/L	#	78
83) Bromobenzene	14.096	156	14147	1.63	ug/L		99
84) 1,1,2,2-Tetrachloroethane	13.999	83	16736	2.15	ug/L		100
85) Trans-1,4-Dichloro-2-b...	14.085	53	2957	1.43	ug/L	#	1
86) 1,2,3-Trichloropropane	14.096	110	4883	2.09	ug/L		95
87) n-Propylbenzene	14.053	91	37007	1.16	ug/L		94
88) 2-Chlorotoluene	14.236	91	34685	1.44	ug/L		98
89) 4-Chlorotoluene	14.355	91	28578	1.38	ug/L		95
90) 1,3,5-Trimethylbenzene	14.215	105	25123	1.13	ug/L		98
91) Pentachloroethane	14.689	167	11659	1.94	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:18:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration

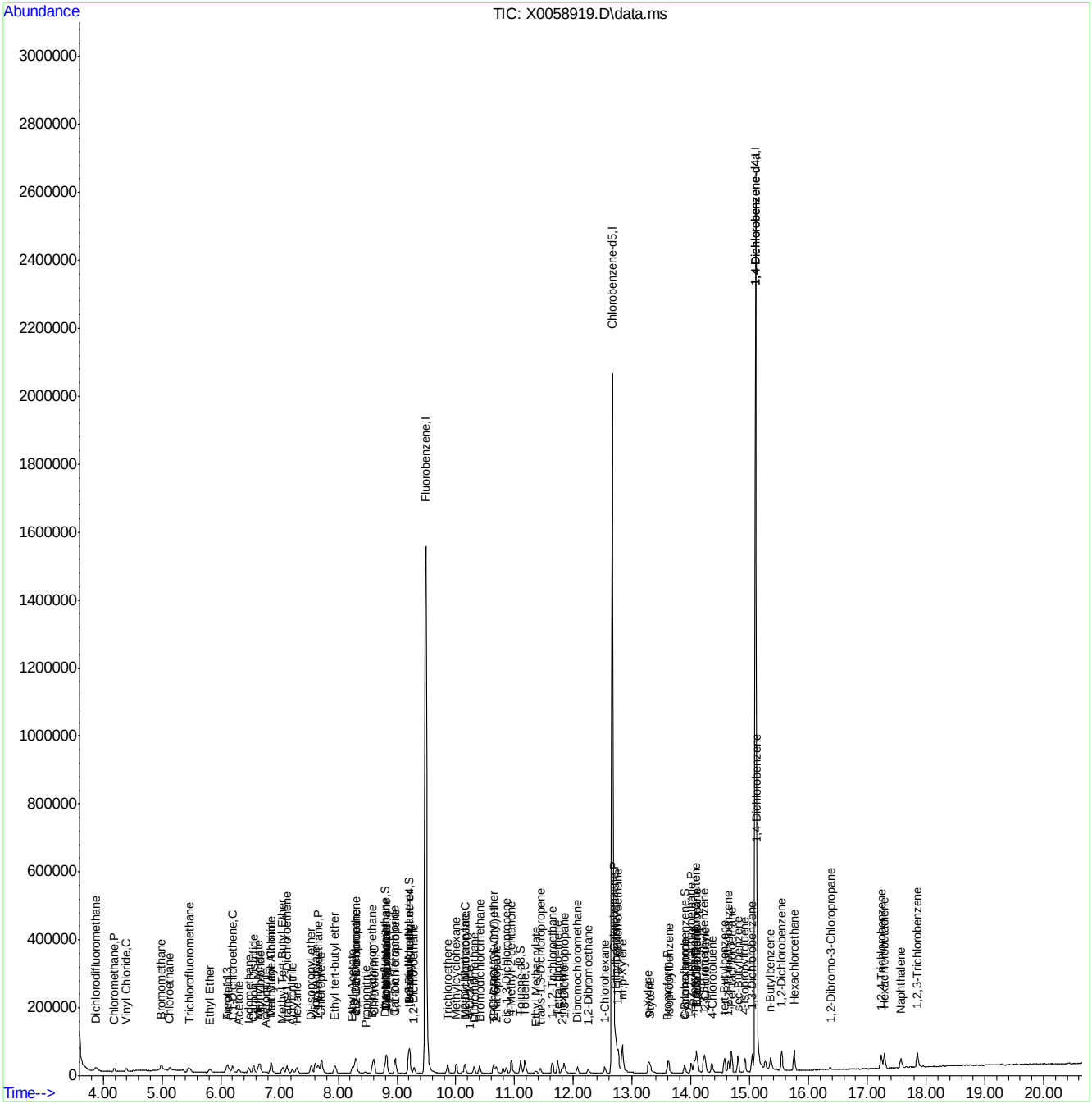
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
92) sec-Butylbenzene	14.797	105	35939	1.21 ug/L	100
93) 1,3-Dichlorobenzene	15.035	146	26383	1.65 ug/L	97
94) 4-Isopropyltoluene	14.916	119	26276	1.10 ug/L	99
95) 1,4-Dichlorobenzene	15.121	146	39210m	2.19 ug/L	
96) tert-Butylbenzene	14.571	91	15783	1.23 ug/L	84
97) n-Butylbenzene	15.348	91	30800	1.25 ug/L	98
98) 1,2-Dichlorobenzene	15.542	146	29684	1.82 ug/L	97
99) 1,2,4-Trimethylbenzene	14.635	105	24307	1.03 ug/L	98
100) Hexachloroethane	15.758	119	11627	1.89 ug/L	89
101) 1,2-Dibromo-3-Chloropr...	16.373	75	3197	2.22 ug/L	94
102) 1,2,4-Trichlorobenzene	17.236	180	18544	1.54 ug/L	93
103) Hexachlorobutadiene	17.290	225	10554	1.93 ug/L	94
104) Naphthalene	17.570	128	33114	1.38 ug/L	98
105) 1,2,3-Trichlorobenzene	17.851	180	20176	1.69 ug/L	97
107) TPH-GRO (C6-C10)	10.655	TIC	950420m	22.65 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:18:10 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration

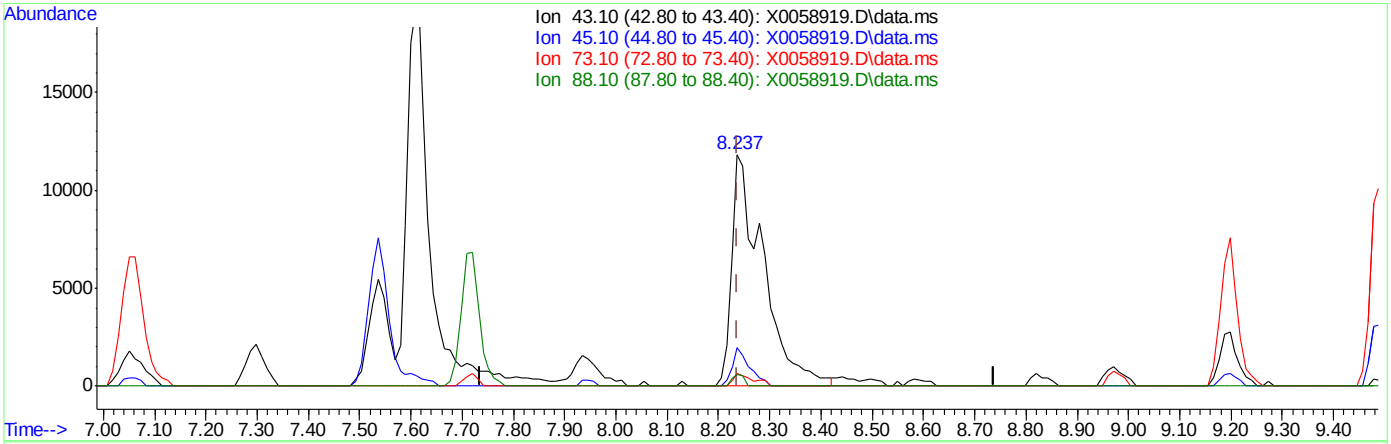


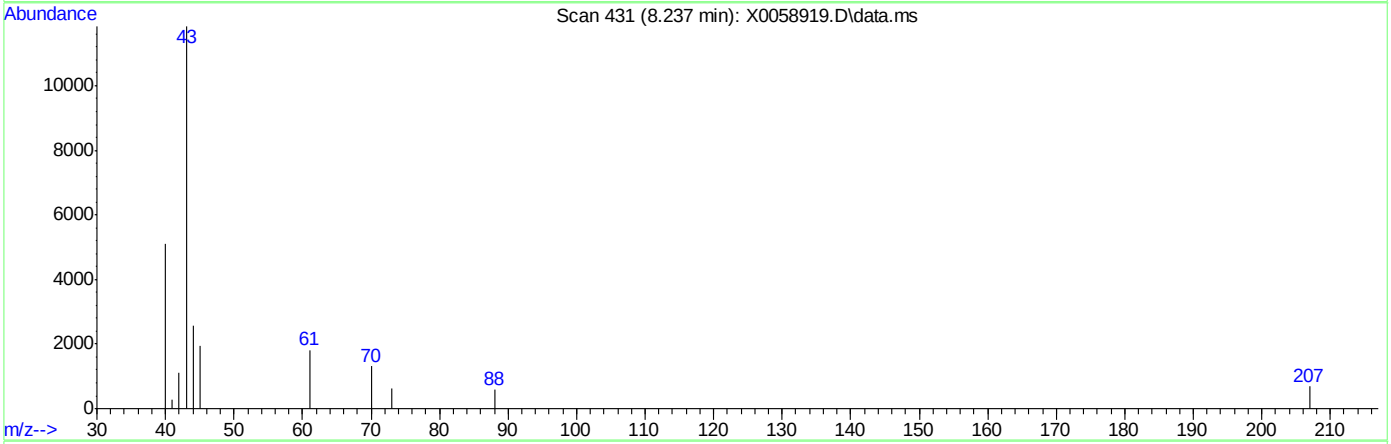
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 14.34ug/L

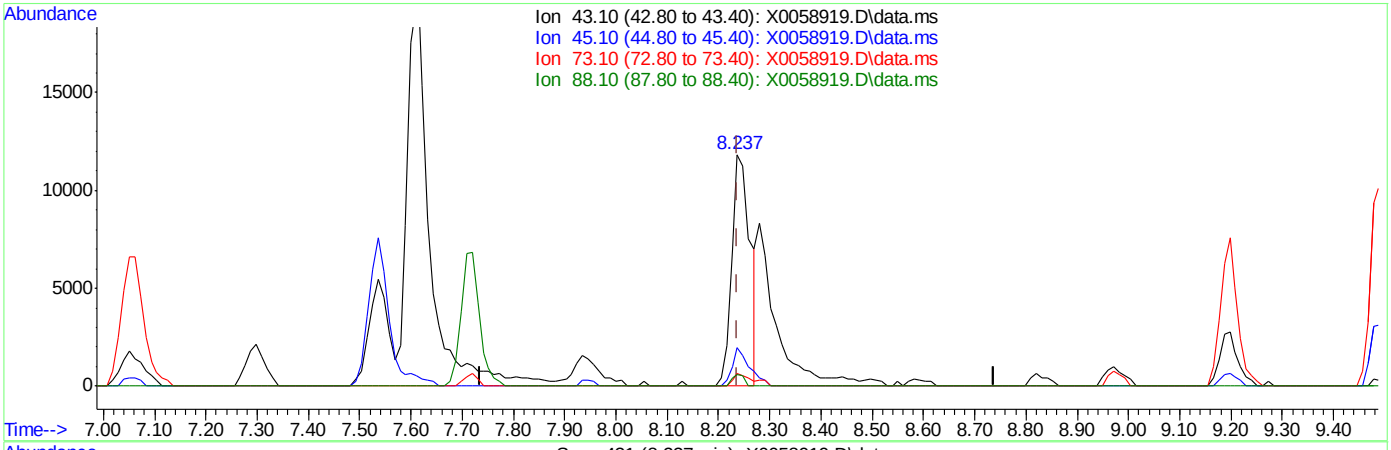
response 50812

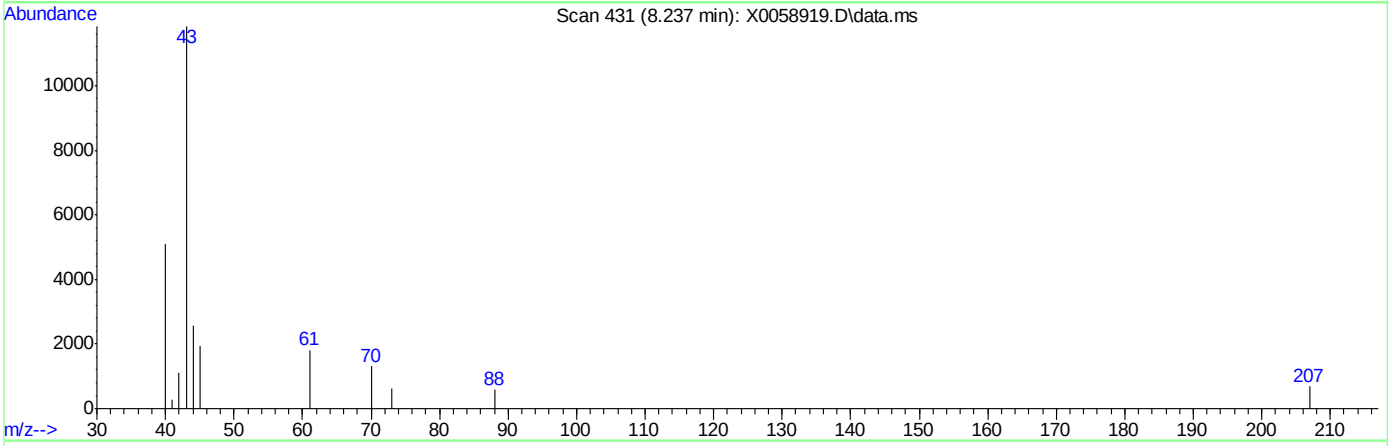
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	16.43
73.10	5.10	5.36
88.10	4.30	4.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 8.62ug/L m

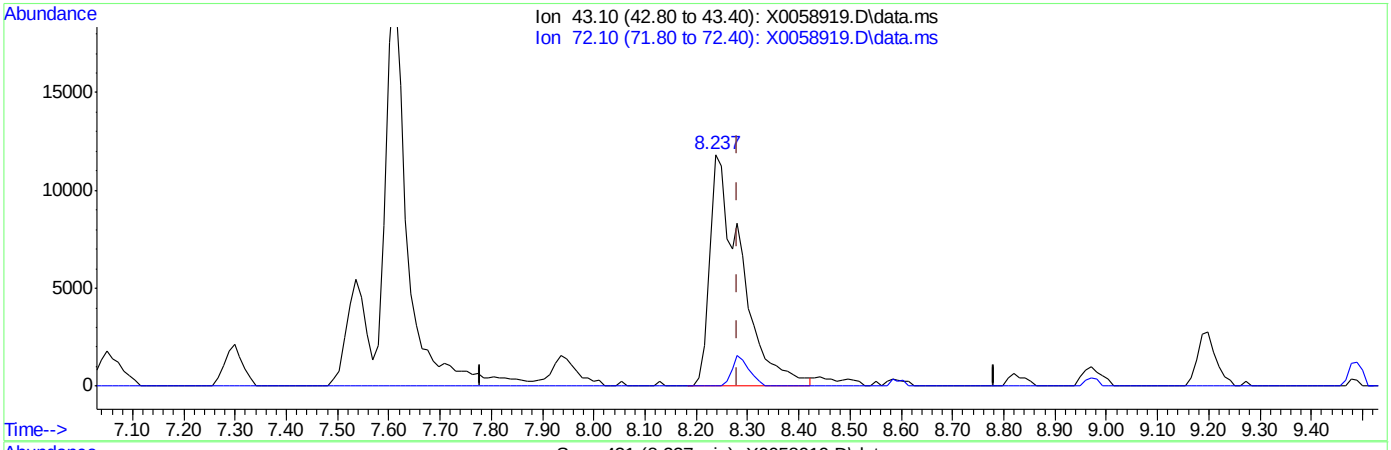
response 30522

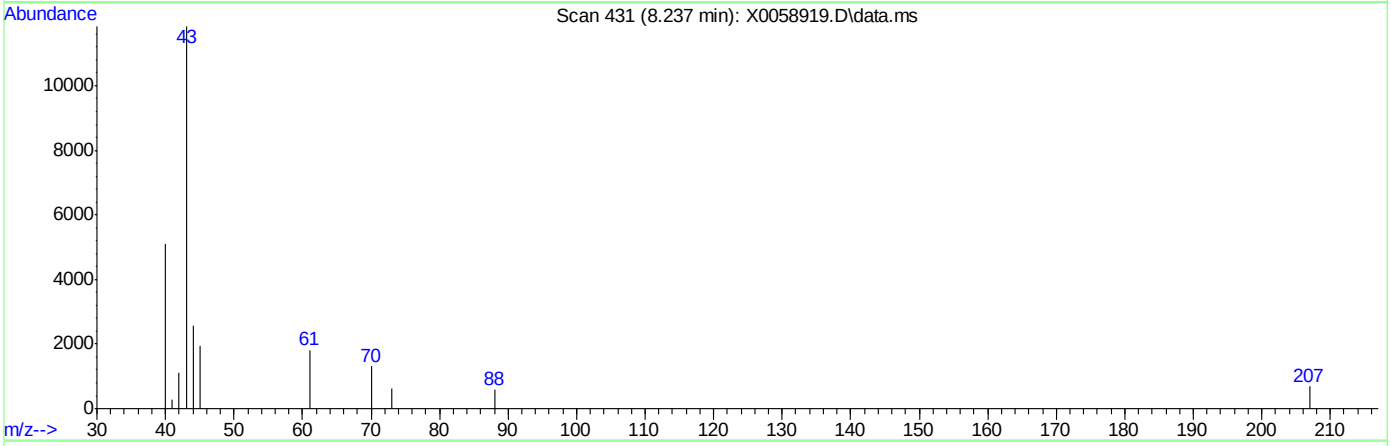
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	16.43
73.10	5.10	5.36
88.10	4.30	4.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 24.68ug/L

response 50812

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On    :  8 Feb 2010  12:33 pm
Operator  : jennl
Sample    : ic439-2
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration
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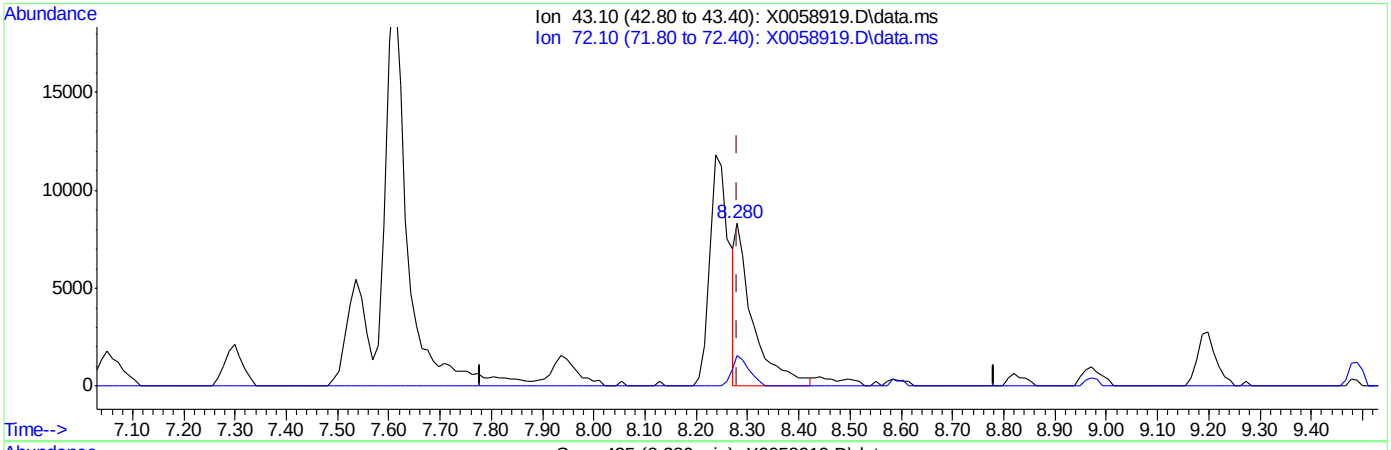
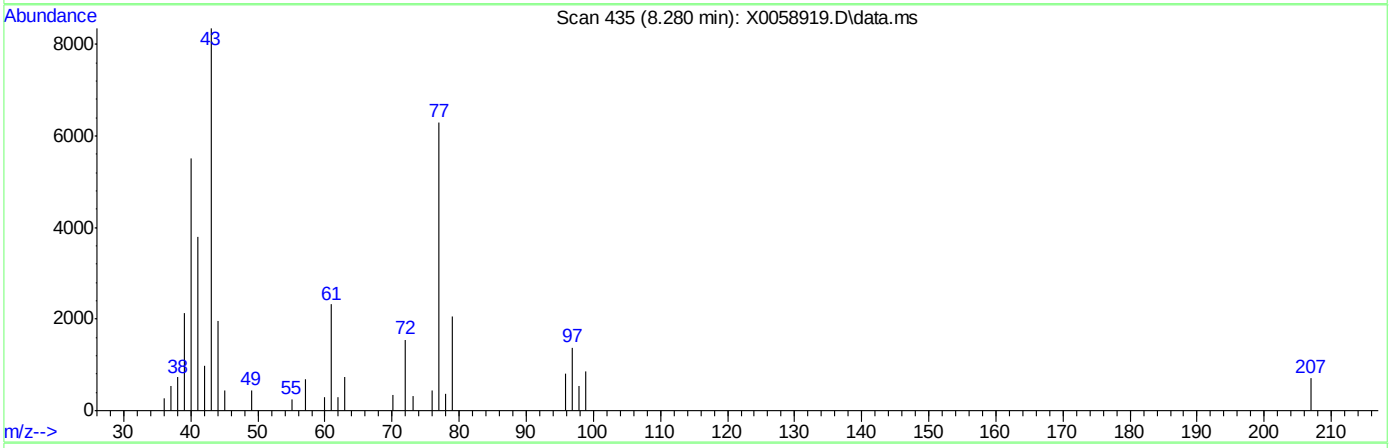




TIC: X0058919.D\data.ms

(32) 2-Butanone

8.280min (-0.000) 9.86ug/L m

response 20293

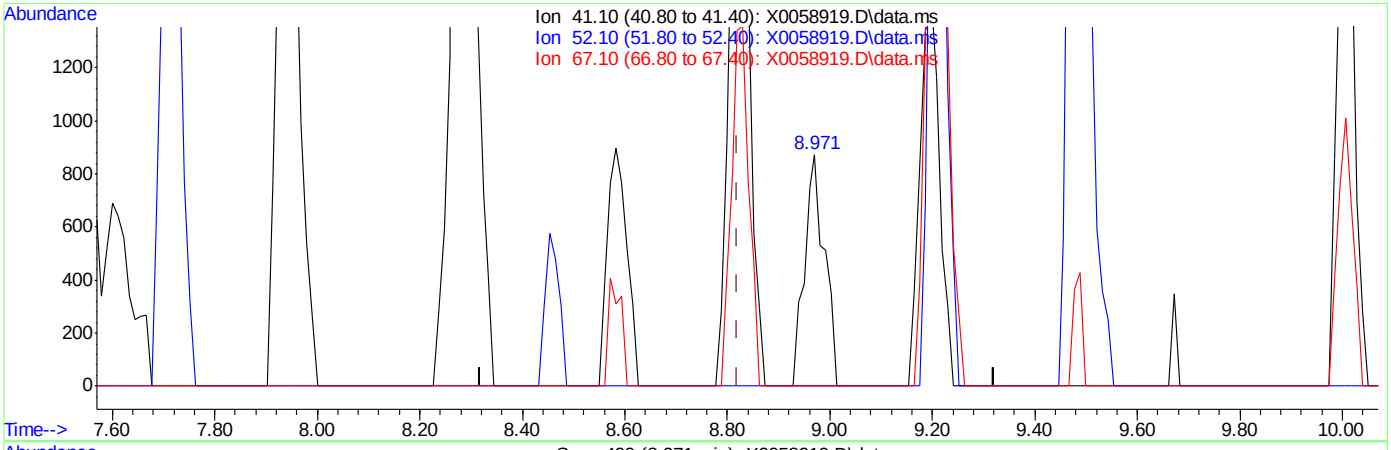
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	18.52
0.00	0.00	0.00
0.00	0.00	0.00

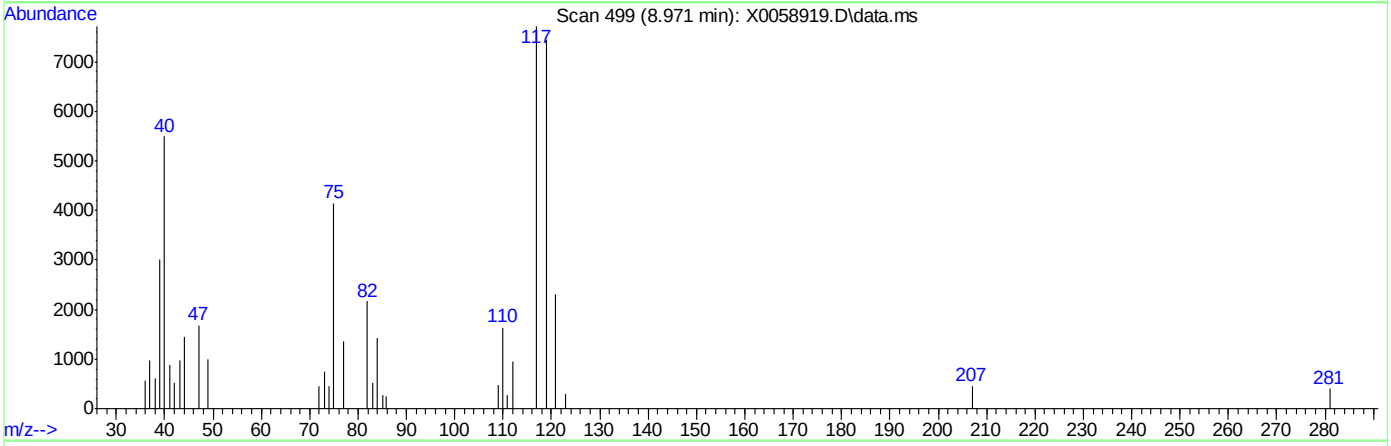
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(34) Methacrylonitrile

8.971min (+0.151) 0.51ug/L

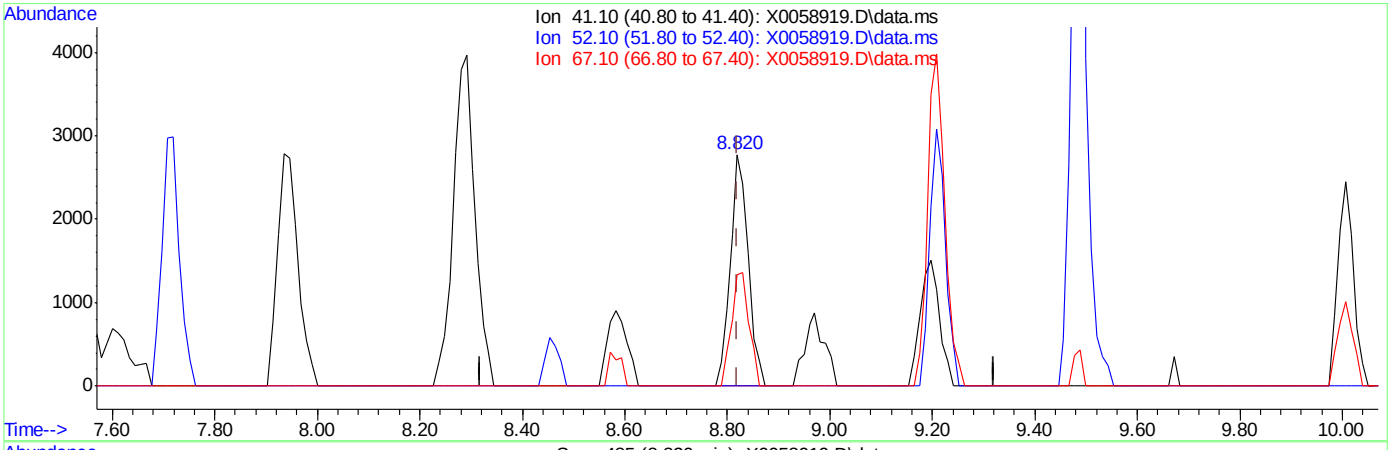
response 2409

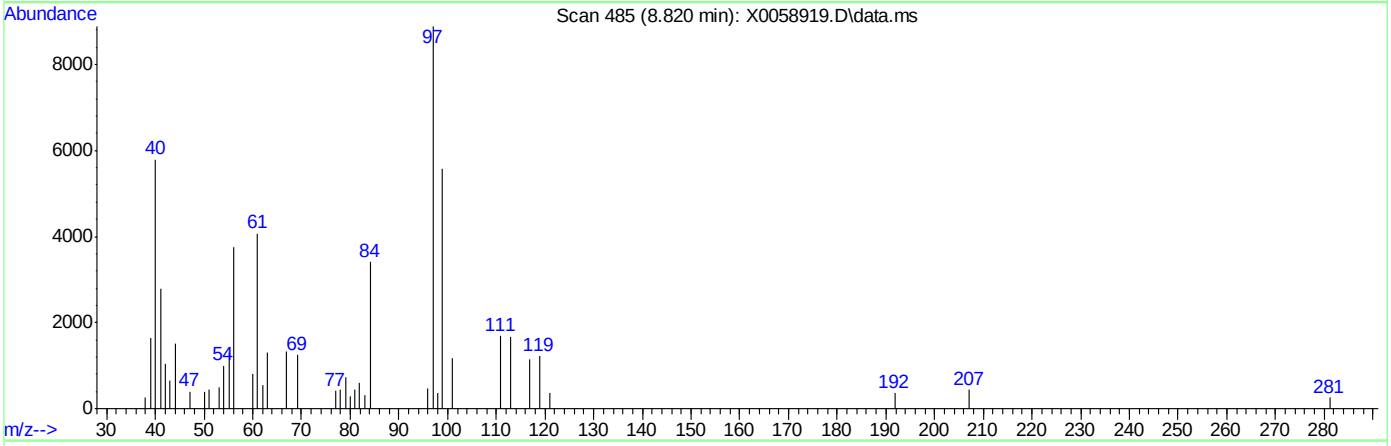
Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	17.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(34) Methacrylonitrile

8.820min (-0.000) 1.48ug/L m

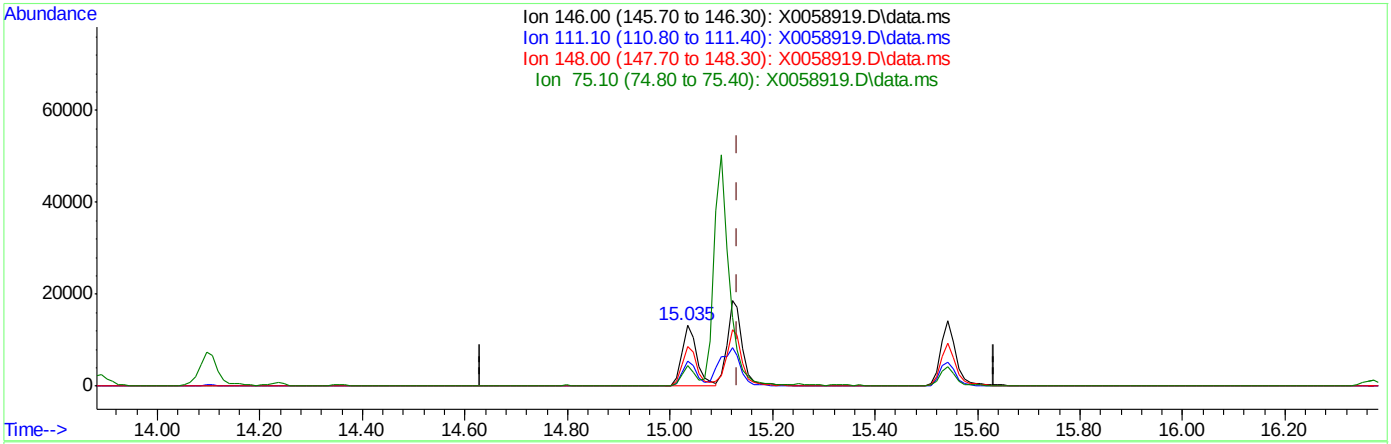
response 6922

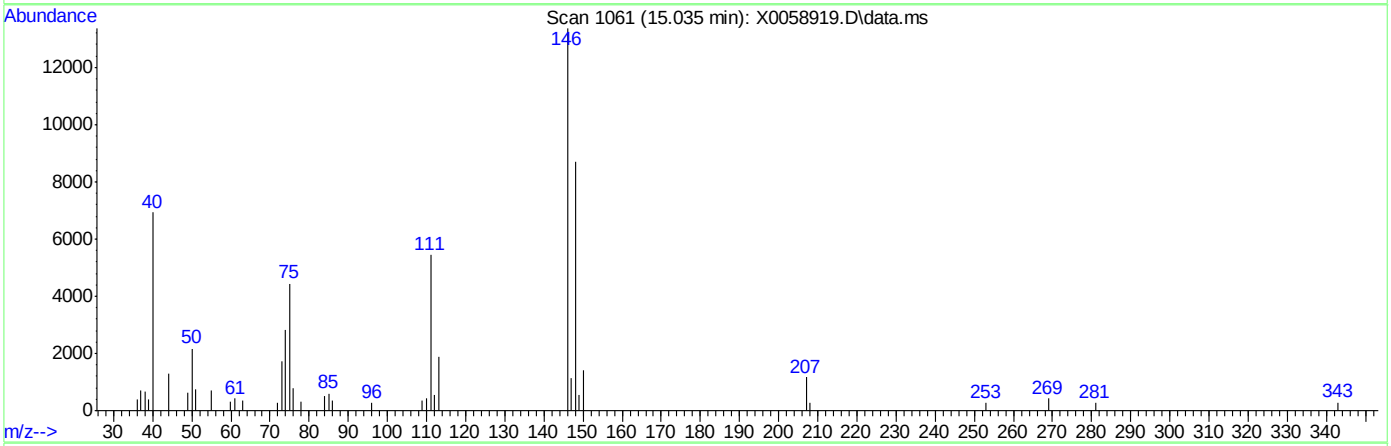
Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	17.20	48.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(95) 1,4-Dichlorobenzene

15.035min (-0.097) 1.47ug/L

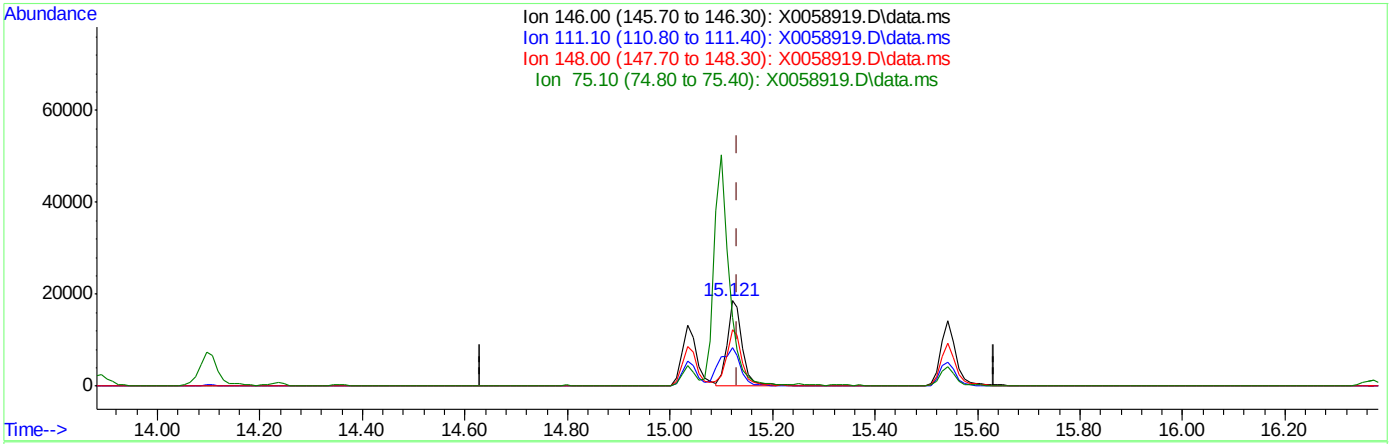
response 26383

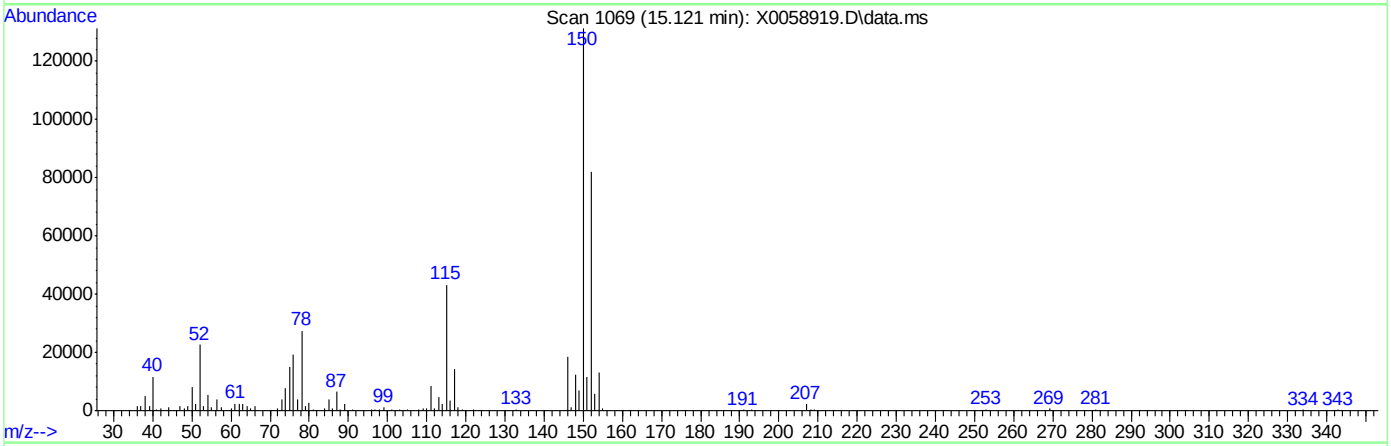
Ion	Exp%	Act%
146.00	100	100
111.10	36.90	40.63
148.00	64.30	64.97
75.10	27.80	33.17

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058919.D
Acq On : 8 Feb 2010 12:33 pm
Operator : jennl
Sample : ic439-2
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:16:17 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:16:08 2010
Response via : Initial Calibration





TIC: X0058919.D\data.ms

(95) 1,4-Dichlorobenzene

15.121min (-0.011) 2.19ug/L m

response 39210

Ion	Exp%	Act%
146.00	100	100
111.10	36.90	44.73
148.00	64.30	65.46
75.10	27.80	80.91#

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:55 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1551092	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1314191	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	824105	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	824105	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	37943	4.93	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 9.86%#			
44) 1,2-Dichloroethane-d4	9.208	65	43627	5.15	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 10.30%#			
61) Toluene-d8	11.097	98	94109	4.03	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 8.06%#			
82) 4-Bromofluorobenzene	13.880	95	32672	3.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 6.72%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.868	85	57396	5.08	ug/L	95
3) Chloromethane	4.180	50	30327	5.45	ug/L	96
4) Vinyl Chloride	4.385	62	26761	4.96	ug/L	91
5) Bromomethane	4.979	94	27314	5.87	ug/L	99
6) Chloroethane	5.130	64	17113	5.63	ug/L	94
7) Trichlorofluoromethane	5.464	101	64904	5.26	ug/L	98
8) Ethyl Ether	5.820	59	12874	4.77	ug/L	97
9) Acrolein	6.133	56	3434	19.01	ug/L	87
10) 1,1-Dichloroethene	6.198	61	36293	4.30	ug/L	97
11) Freon 113	6.123	101	35167	5.07	ug/L	95
12) Acetone	6.306	43	35234	25.13	ug/L	96
13) Iodomethane	6.479	142	47965	4.34	ug/L	98
14) Methyl Acetate	6.640	43	79542	23.38	ug/L	98
15) Carbon Disulfide	6.554	76	93099	4.75	ug/L	100
16) Methylene Chloride	6.856	49	42547	5.47	ug/L	99
17) Tert Butyl Alcohol	6.867	59	12265	37.36	ug/L	91
18) Allyl Chloride	6.673	41	31656	3.89	ug/L	99
19) Acetonitrile	6.770	41	7865	14.02	ug/L	93
20) trans-1,2-Dichloroethene	7.126	61	36428	4.36	ug/L	96
21) Acrylonitrile	7.212	53	31818	20.70	ug/L	98
22) Methyl Tert Butyl Ether	7.061	73	47196	3.38	ug/L	89
23) Hexane	7.299	57	19980	3.21	ug/L	84
24) 1,1-Dichloroethane	7.655	63	55819	5.06	ug/L	96
25) Vinyl Acetate	7.612	43	157738	17.23	ug/L	96
26) Di-isopropyl ether	7.536	45	52811	3.39	ug/L	83
27) Chloroprene	7.719	53	81555	3.72	ug/L	98
28) Ethyl tert-butyl ether	7.946	59	53616	3.39	ug/L	98
29) 2,2-Dichloropropane	8.280	77	46007	4.73	ug/L	96
30) cis-1,2-Dichloroethene	8.302	96	28051	4.33	ug/L	95
31) Ethyl Acetate	8.237	43	61606m	15.66	ug/L	
32) 2-Butanone	8.280	43	51669m	24.90	ug/L	
33) Propionitrile	8.453	54	12800	19.16	ug/L	98
34) Methacrylonitrile	8.820	41	19115m	3.81	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:55 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.593	128	18248	4.61	ug/L	96
36) Chloroform	8.604	83	61965	5.04	ug/kg	98
37) Tetrahydrofuran	8.831	42	7880	3.92	ug/L	95
38) 1,1,1-Trichloroethane	8.820	97	52661	4.77	ug/L	98
40) Cyclohexane	8.820	56	26780	3.10	ug/L	93
41) n-Butyl Alcohol	9.672	56	1523	23.48	ug/L #	70
42) 1,1-Dichloropropene	8.971	75	27900	3.49	ug/L	97
43) Carbon Tetrachloride	8.960	117	50456	4.75	ug/L	98
45) Benzene	9.208	78	109994	4.65	ug/L	97
46) Isobutyl Alcohol	9.198	43	18093	37.94	ug/L	86
47) 1,2-Dichloroethane	9.284	62	44995	4.89	ug/L	96
48) tert-amyl methyl ether	9.198	73	47762	3.12	ug/L	88
49) Trichloroethene	9.856	95	25934	4.15	ug/L	97
50) Methylcyclohexane	10.007	83	27209	2.90	ug/L	94
51) Methyl Methacrylate	10.158	41	29770	8.45	ug/L #	24
52) 1,2-Dichloropropane	10.158	63	26533	4.23	ug/L	91
53) Dibromomethane	10.309	93	20357	4.55	ug/kg	97
54) 1,4-Dioxane	10.223	88	2102	48.65	ug/L	74
55) Bromodichloromethane	10.406	83	41984	4.49	ug/L	98
56) 2-Nitropropane	10.687	41	32083	21.44	ug/L	89
57) 2-Chloroethyl vinyl ether	10.643	63	47010	13.23	ug/L	97
58) 4-Methyl-2-pentanone	10.946	43	81684	16.95	ug/L	96
59) cis-1,3-Dichloropropene	10.859	75	35378	3.49	ug/L	99
62) Toluene	11.172	91	97105	3.90	ug/L	99
63) Ethyl Methacrylate	11.356	69	15920	2.45	ug/L	100
64) trans-1,3-Dichloropropene	11.431	75	30622	3.50	ug/L	94
65) 1,1,2-Trichloroethane	11.647	83	24487	4.90	ug/L	93
66) Tetrachloroethene	11.733	166	32280	4.32	ug/L	98
67) 2-hexanone	11.798	43	45381	13.54	ug/L	89
68) 1,3-Dichloropropane	11.841	76	44928	4.42	ug/L	94
69) Dibromochloromethane	12.068	129	32522	4.31	ug/L	98
70) 1,2-Dibromoethane	12.251	107	24677	4.10	ug/L	98
71) 1-Chlorohexane	12.532	91	19950	2.51	ug/L	78
72) Chlorobenzene	12.693	112	95707	4.84	ug/L	100
73) 1,1,1,2-Tetrachloroethane	12.758	131	35858	4.59	ug/L	90
74) Ethylbenzene	12.715	91	128397	4.17	ug/L	99
75) m,p-Xylene	12.834	91	181311	7.41	ug/L	100
76) o-Xylene	13.276	91	75193	3.07	ug/L	96
77) Styrene	13.298	104	59345	2.98	ug/L	94
78) Bromoform	13.600	173	20739	3.86	ug/L	99
80) Isopropylbenzene	13.621	105	71706	2.76	ug/L	100
81) Cyclohexanone	13.891	55	1601	23.20	ug/L	90
83) Bromobenzene	14.085	156	39314	4.13	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	38820	4.67	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	8118	3.45	ug/L	92
86) 1,2,3-Trichloropropane	14.096	110	11660	4.66	ug/L	95
87) n-Propylbenzene	14.053	91	110855	2.98	ug/L	98
88) 2-Chlorotoluene	14.236	91	106012	3.97	ug/L	96
89) 4-Chlorotoluene	14.355	91	82370	3.50	ug/L	97
90) 1,3,5-Trimethylbenzene	14.215	105	78478	3.02	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:55 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration

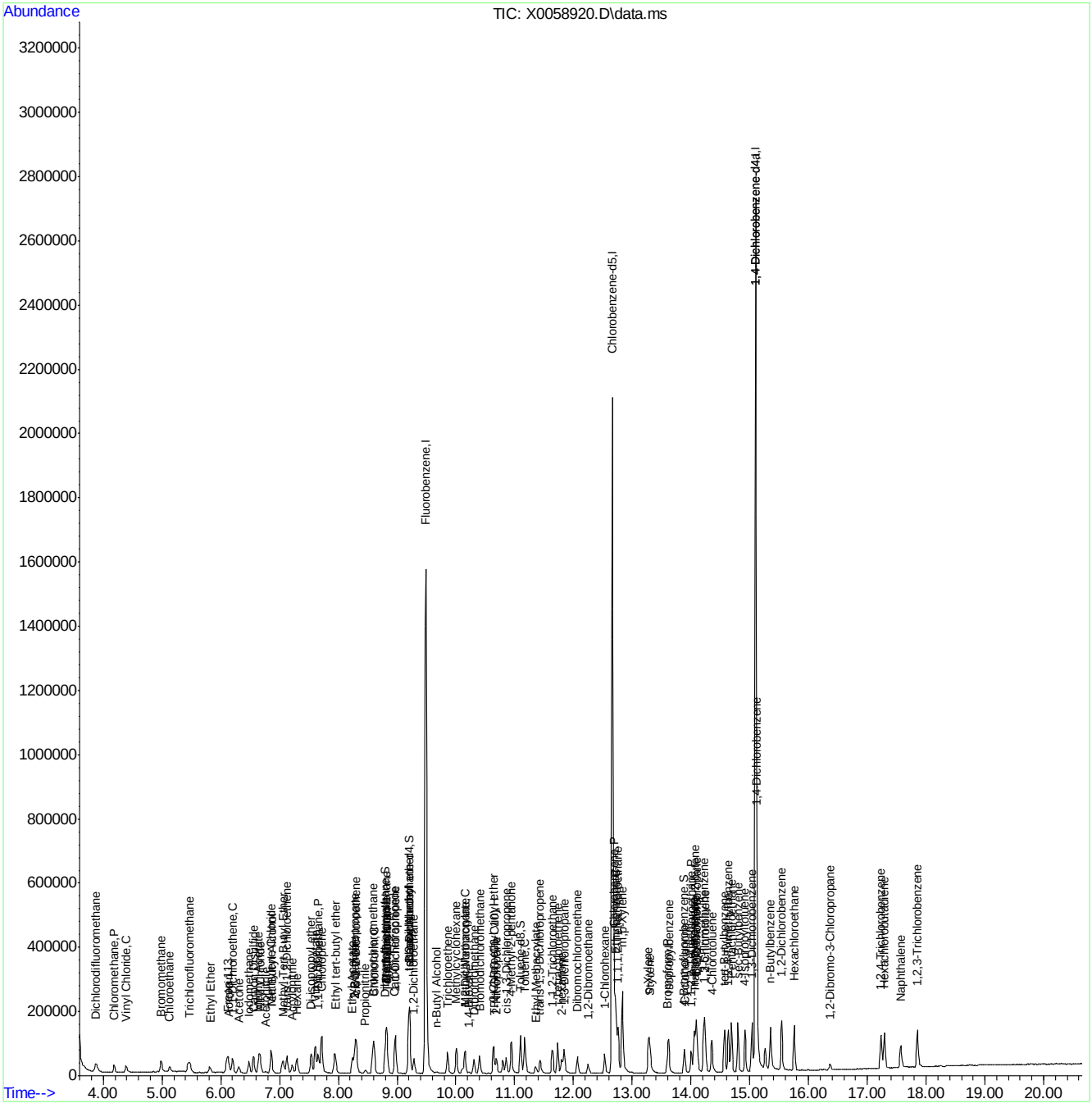
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.690	167	28415	4.33	ug/L	100
92)	sec-Butylbenzene	14.797	105	107883	3.12	ug/L	99
93)	1,3-Dichlorobenzene	15.035	146	72715	4.15	ug/L	97
94)	4-Isopropyltoluene	14.916	119	80685	2.87	ug/L	97
95)	1,4-Dichlorobenzene	15.121	146	93316	4.93	ug/L	87
96)	tert-Butylbenzene	14.571	91	44109	2.94	ug/L	89
97)	n-Butylbenzene	15.348	91	91829	3.23	ug/L	95
98)	1,2-Dichlorobenzene	15.542	146	76875	4.33	ug/L	99
99)	1,2,4-Trimethylbenzene	14.636	105	87101	3.18	ug/L	99
100)	Hexachloroethane	15.758	119	28765	4.28	ug/L	95
101)	1,2-Dibromo-3-Chloropr...	16.362	75	6720	4.28	ug/L	93
102)	1,2,4-Trichlorobenzene	17.225	180	48478	3.56	ug/L	96
103)	Hexachlorobutadiene	17.290	225	25480	4.28	ug/L	92
104)	Naphthalene	17.570	128	83777	2.99	ug/L	98
105)	1,2,3-Trichlorobenzene	17.851	180	50191	3.75	ug/L	98
107)	TPH-GRO (C6-C10)	10.655	TIC	8008990m	153.47	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:55 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration

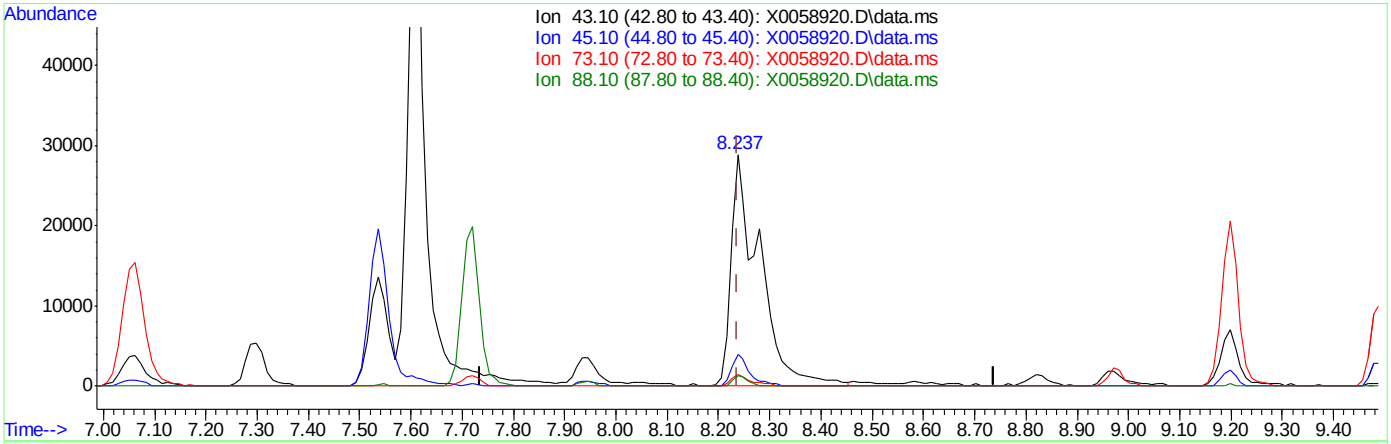


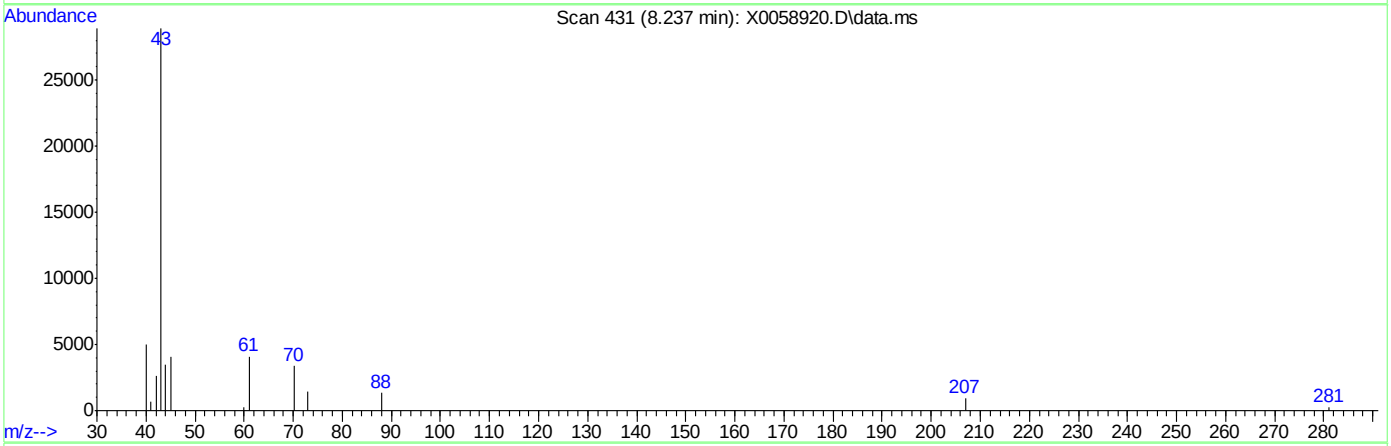
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration





TIC: X0058920.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 28.79ug/L

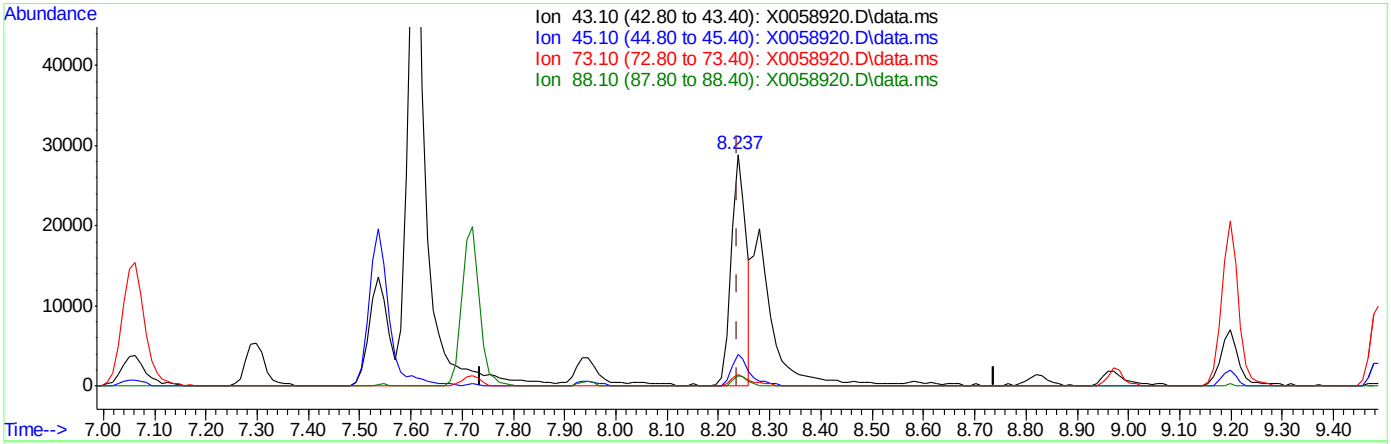
response 113271

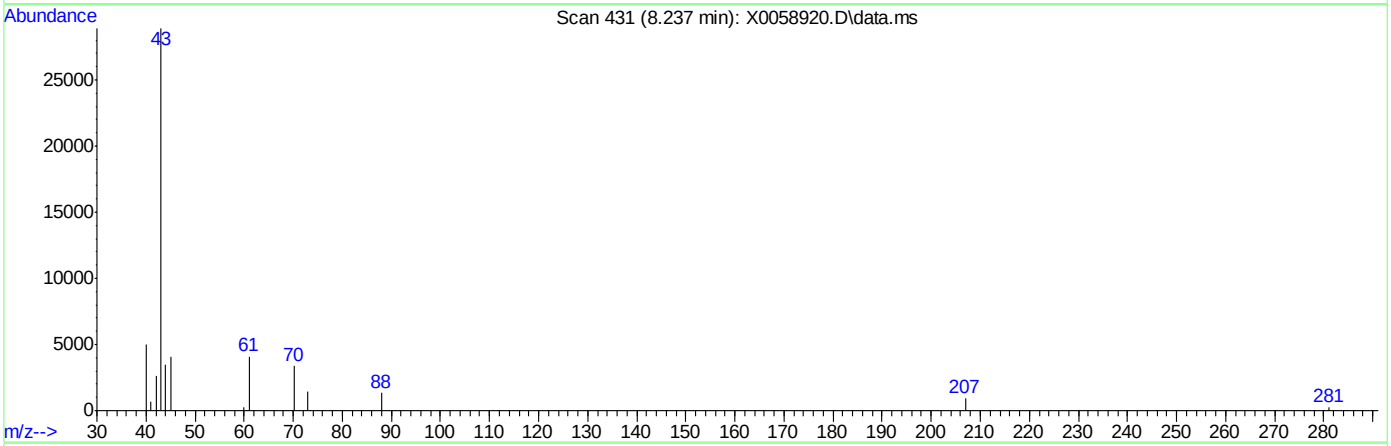
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	13.96
73.10	5.10	4.91
88.10	4.30	4.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration





TIC: X0058920.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 15.66ug/L m

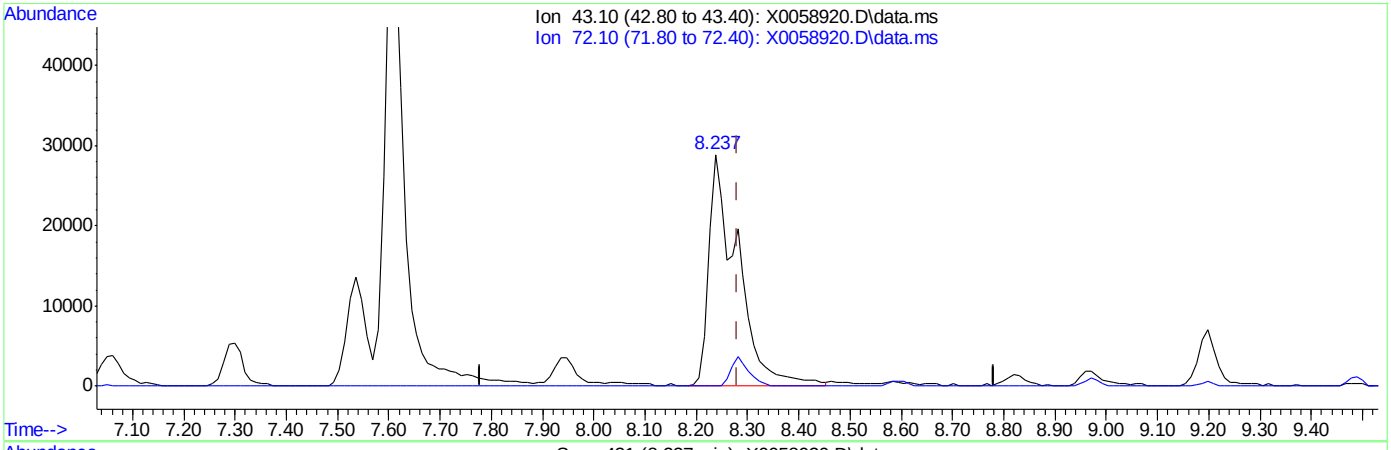
response 61606

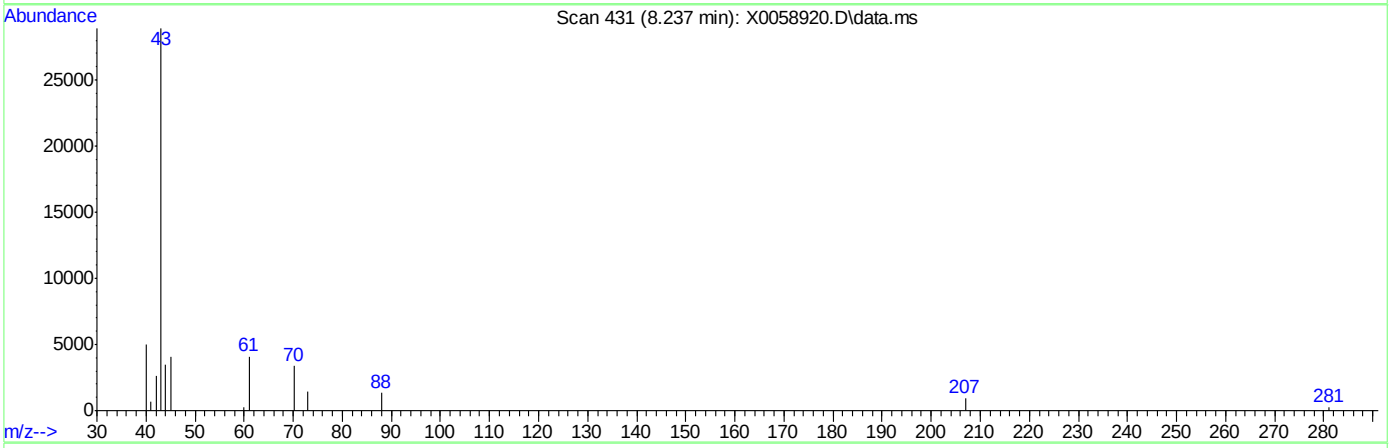
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	13.96
73.10	5.10	4.91
88.10	4.30	4.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration





TIC: X0058920.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 54.59ug/L

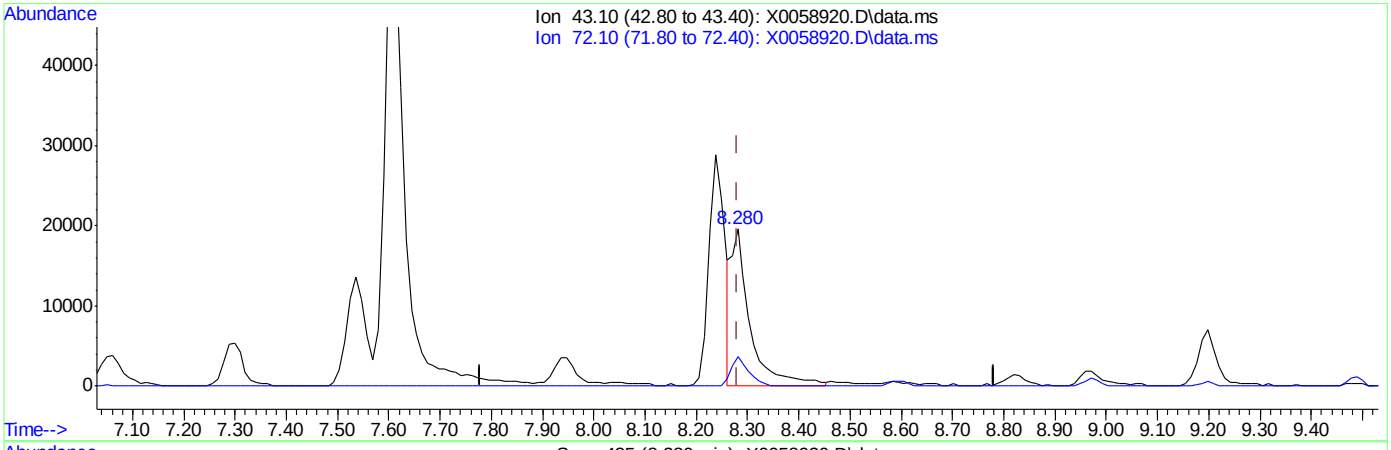
response 113271

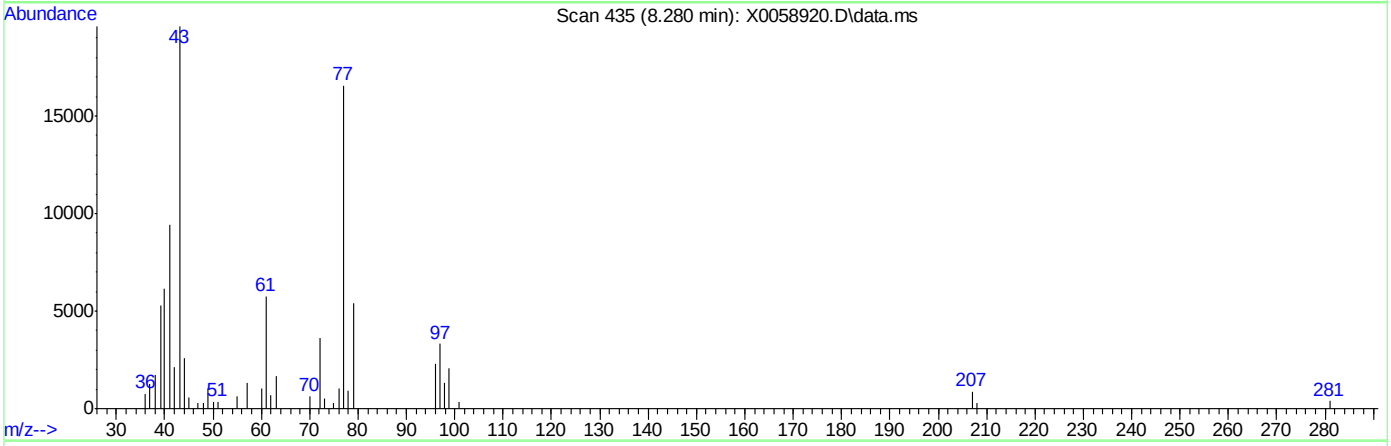
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration





TIC: X0058920.D\data.ms

(32) 2-Butanone

8.280min (+0.000) 24.90ug/L m

response 51669

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	18.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On    :  8 Feb 2010   1:02 pm
Operator  : jennl
Sample    : ic439-5
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration
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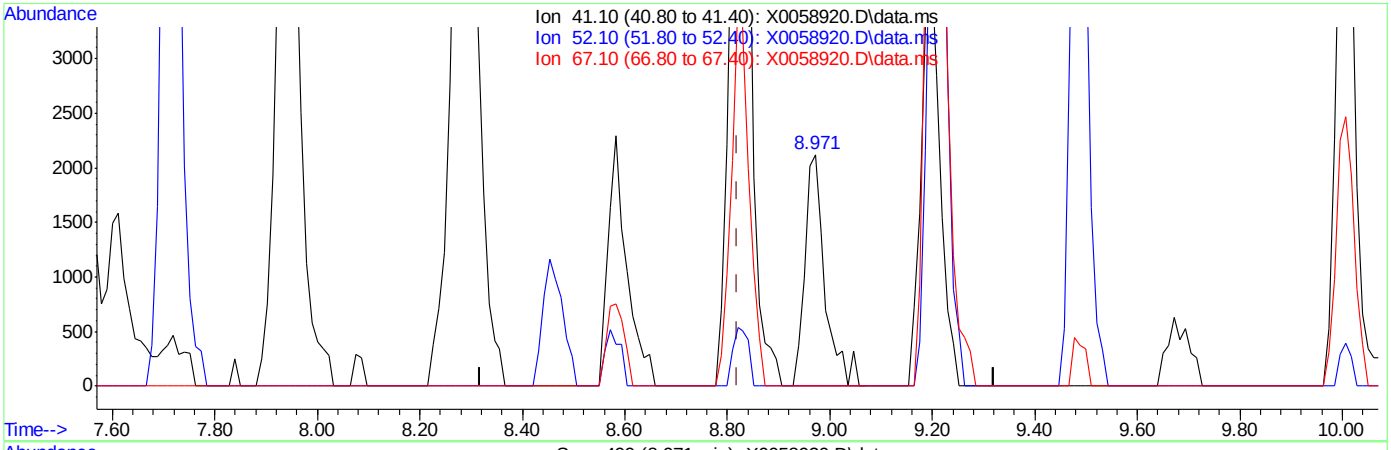
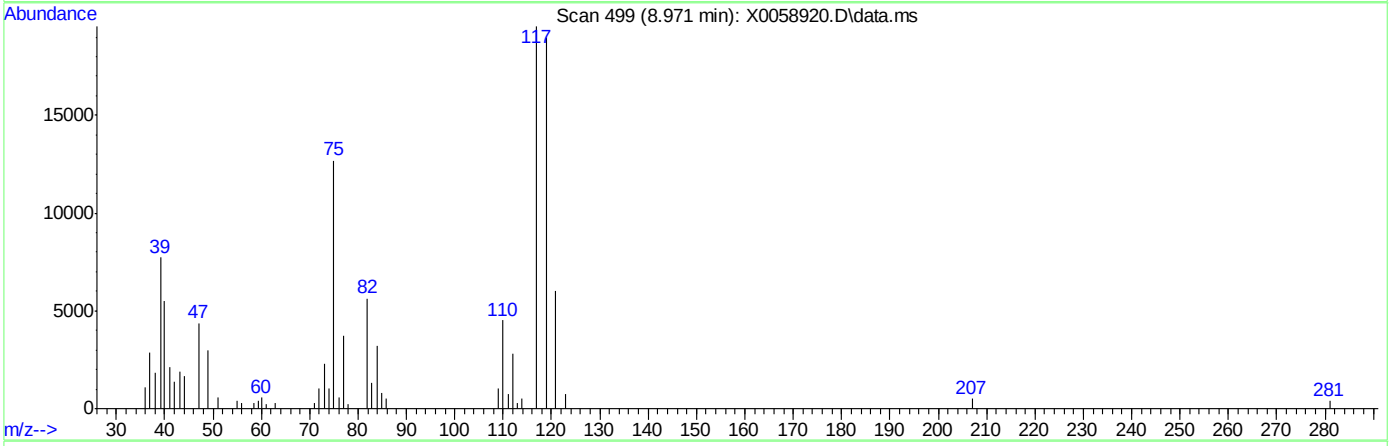




(34) Methacrylonitrile

8.971min (+0.151) 1.16ug/L

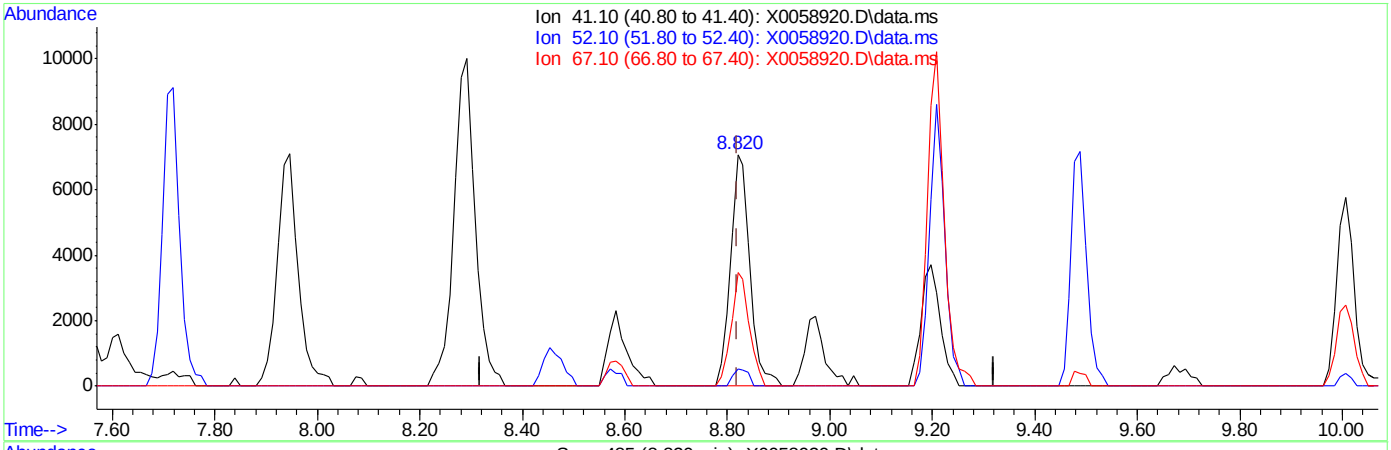
response 5841

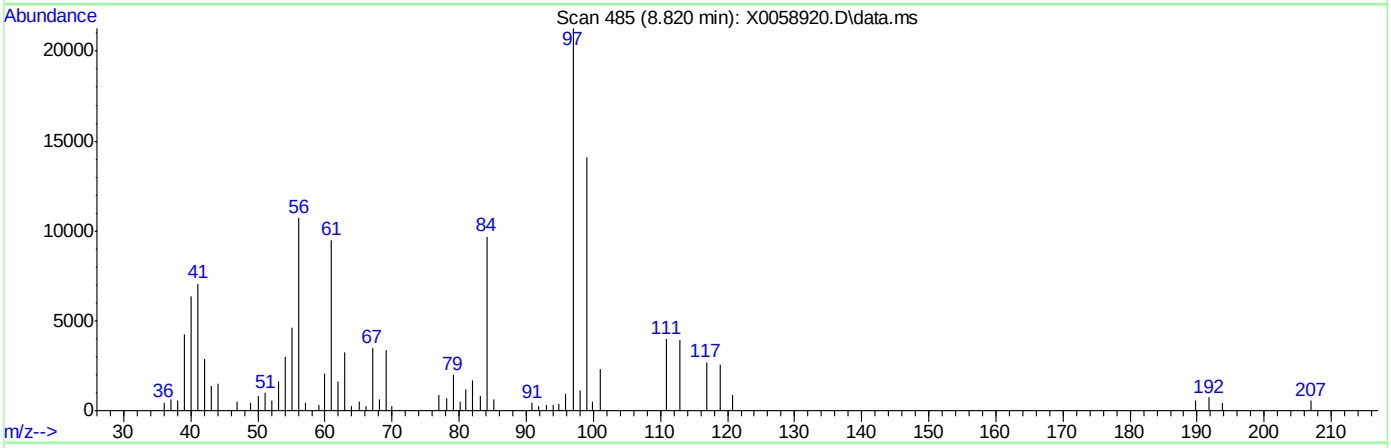
Ion	Exp%	Act%
41.10	100	100
52.10	3.60	0.00
67.10	17.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058920.D
Acq On : 8 Feb 2010 1:02 pm
Operator : jennl
Sample : ic439-5
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 09:12:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:11:49 2010
Response via : Initial Calibration





(34) Methacrylonitrile

8.820min (+0.000) 3.81ug/L m

response 19115

Ion	Exp%	Act%
41.10	100	100
52.10	3.60	7.53
67.10	17.20	49.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:10:03 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1623786	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1431836	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	915643	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	915643	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.787	113	157709	19.08	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 38.16%#			
44) 1,2-Dichloroethane-d4	9.197	65	180961	20.07	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 40.14%#			
61) Toluene-d8	11.096	98	481841	18.48	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 36.96%#			
82) 4-Bromofluorobenzene	13.880	95	194527	17.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 34.72%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.867	85	236598	19.25	ug/L	98
3) Chloromethane	4.180	50	125427	21.12	ug/L	99
4) Vinyl Chloride	4.385	62	119586	21.11	ug/L	97
5) Bromomethane	4.979	94	112211	22.69	ug/L	99
6) Chloroethane	5.130	64	72172	22.45	ug/L	99
7) Trichlorofluoromethane	5.453	101	269825	20.34	ug/L	98
8) Ethyl Ether	5.809	59	60398	21.72	ug/L	98
9) Acrolein	6.122	56	18401	99.55	ug/L	98
10) 1,1-Dichloroethene	6.198	61	163184	17.71	ug/L	99
11) Freon 113	6.112	101	140380	18.45	ug/L	98
12) Acetone	6.295	43	158523	113.00	ug/L	98
13) Iodomethane	6.468	142	210737	17.71	ug/L	98
14) Methyl Acetate	6.640	43	382819	109.82	ug/L	99
15) Carbon Disulfide	6.554	76	390536	18.32	ug/L	100
16) Methylene Chloride	6.856	49	167548	19.95	ug/L	99
17) Tert Butyl Alcohol	6.856	59	68964	210.34	ug/L	89
18) Allyl Chloride	6.662	41	159206	17.78	ug/L	99
19) Acetonitrile	6.748	41	31738	55.18	ug/L	97
20) trans-1,2-Dichloroethene	7.126	61	164909	18.04	ug/L	99
21) Acrylonitrile	7.201	53	169956	104.90	ug/L	99
22) Methyl Tert Butyl Ether	7.050	73	270961	18.59	ug/L	97
23) Hexane	7.288	57	115002	16.55	ug/L	92
24) 1,1-Dichloroethane	7.655	63	232615	19.59	ug/L	99
25) Vinyl Acetate	7.601	43	971773	101.40	ug/L	99
26) Di-isopropyl ether	7.536	45	295223	17.48	ug/L	95
27) Chloroprene	7.708	53	437313	18.17	ug/L	97
28) Ethyl tert-butyl ether	7.935	59	307855	18.23	ug/L	99
29) 2,2-Dichloropropane	8.280	77	200738	18.96	ug/L	96
30) cis-1,2-Dichloroethene	8.302	96	132837	19.22	ug/L	96
31) Ethyl Acetate	8.237	43	431156m	109.63	ug/L	
32) 2-Butanone	8.270	43	226460m	102.78	ug/L	
33) Propionitrile	8.453	54	71830	105.36	ug/L	99
34) Methacrylonitrile	8.820	41	99363	17.92	ug/L	77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:10:03 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	83318	19.83	ug/L	97
36) Chloroform	8.604	83	256229	19.28	ug/kg	99
37) Tetrahydrofuran	8.820	42	39679	17.50	ug/L	87
38) 1,1,1-Trichloroethane	8.820	97	224119	18.77	ug/L	99
40) Cyclohexane	8.820	56	158168	16.28	ug/L	98
41) n-Butyl Alcohol	9.661	56	11824	183.70	ug/L	96
42) 1,1-Dichloropropene	8.971	75	150785	17.12	ug/L	99
43) Carbon Tetrachloride	8.960	117	211152	18.25	ug/L	99
45) Benzene	9.208	78	492364	19.19	ug/L	99
46) Isobutyl Alcohol	9.197	43	94881	186.64	ug/L	96
47) 1,2-Dichloroethane	9.284	62	196582	20.24	ug/L	99
48) tert-amyl methyl ether	9.197	73	295495	18.15	ug/L	97
49) Trichloroethene	9.856	95	119955	17.74	ug/L	99
50) Methylcyclohexane	10.007	83	167833	16.09	ug/L	98
51) Methyl Methacrylate	10.104	41	65210	18.04	ug/L	99
52) 1,2-Dichloropropane	10.147	63	130415	19.42	ug/L	96
53) Dibromomethane	10.298	93	95374	20.47	ug/kg	90
54) 1,4-Dioxane	10.222	88	17467	398.40	ug/L	97
55) Bromodichloromethane	10.406	83	189899	19.13	ug/L	99
56) 2-Nitropropane	10.686	41	161290	105.23	ug/L	98
57) 2-Chloroethyl vinyl ether	10.633	63	366175	97.94	ug/L	100
58) 4-Methyl-2-pentanone	10.935	43	530236	107.40	ug/L	99
59) cis-1,3-Dichloropropene	10.848	75	193311	17.77	ug/L	96
62) Toluene	11.172	91	510666	18.37	ug/L	100
63) Ethyl Methacrylate	11.355	69	118605	16.79	ug/L	99
64) trans-1,3-Dichloropropene	11.431	75	178833	18.61	ug/L	99
65) 1,1,2-Trichloroethane	11.636	83	111284	20.60	ug/L	97
66) Tetrachloroethene	11.733	166	148493	17.77	ug/L	98
67) 2-hexanone	11.787	43	377293	106.84	ug/L	97
68) 1,3-Dichloropropane	11.841	76	227011	20.47	ug/L	98
69) Dibromochloromethane	12.068	129	156950	19.17	ug/L	99
70) 1,2-Dibromoethane	12.251	107	126042	19.41	ug/L	98
71) 1-Chlorohexane	12.531	91	139929	15.19	ug/L	92
72) Chlorobenzene	12.693	112	420865	19.16	ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.758	131	163957	19.00	ug/L	98
74) Ethylbenzene	12.715	91	628482	18.07	ug/L	100
75) m,p-Xylene	12.834	91	999894	36.14	ug/L	99
76) o-Xylene	13.276	91	477739	17.12	ug/L	100
77) Styrene	13.298	104	394343	17.51	ug/L	99
78) Bromoform	13.600	173	110739	19.31	ug/L	98
80) Isopropylbenzene	13.621	105	496277	16.36	ug/L	99
81) Cyclohexanone	13.880	55	14211	190.28	ug/L	94
83) Bromobenzene	14.085	156	204201	19.01	ug/L	98
84) 1,1,2,2-Tetrachloroethane	13.999	83	193256	21.08	ug/L	99
85) Trans-1,4-Dichloro-2-b...	14.064	53	52505	20.36	ug/L	91
86) 1,2,3-Trichloropropane	14.096	110	58689	21.55	ug/L	97
87) n-Propylbenzene	14.053	91	746547	17.18	ug/L	99
88) 2-Chlorotoluene	14.236	91	569710	18.54	ug/L	99
89) 4-Chlorotoluene	14.344	91	487323	17.98	ug/L	100
90) 1,3,5-Trimethylbenzene	14.215	105	515424	17.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:10:03 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration

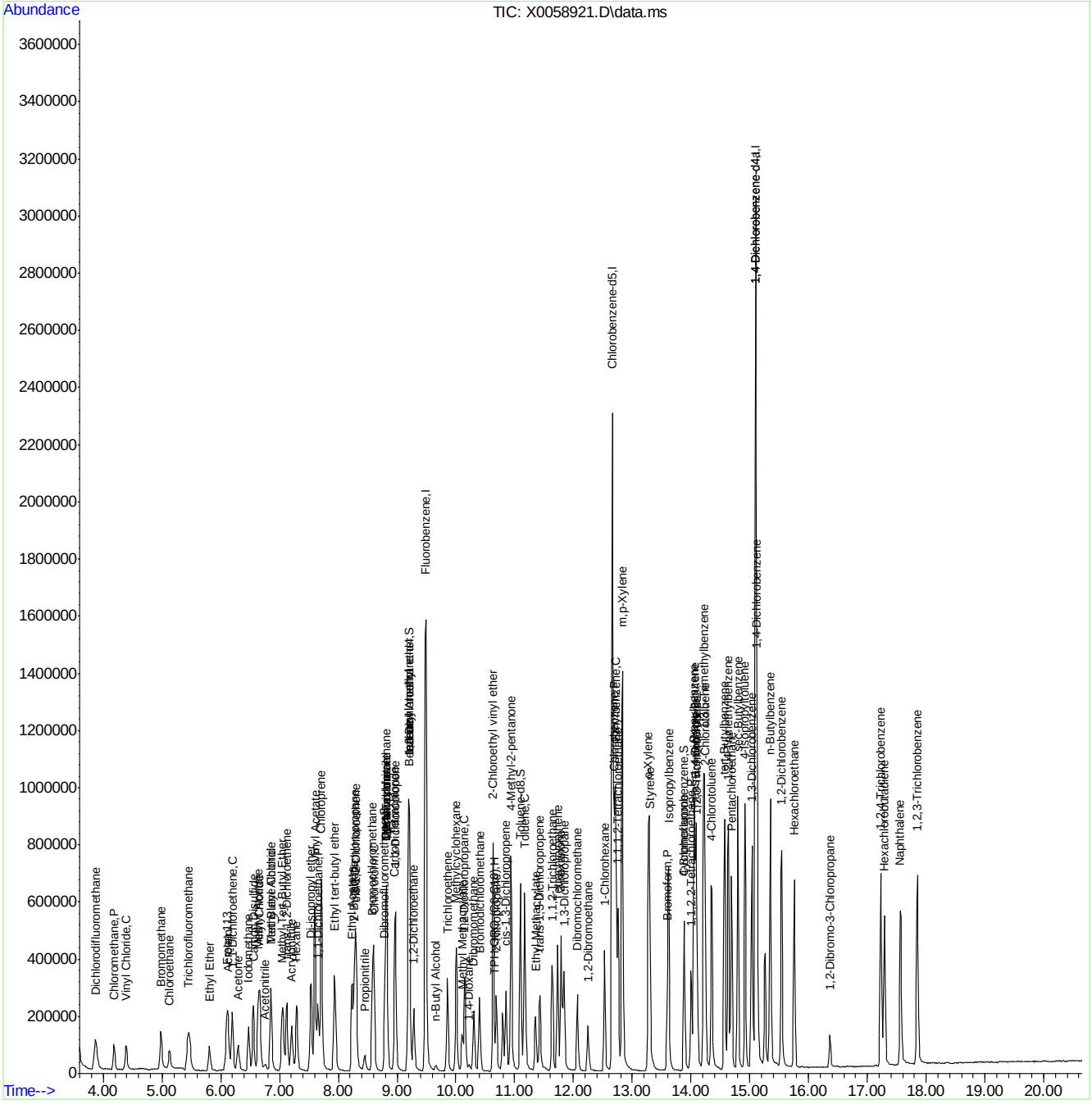
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	Pentachloroethane	14.689	167	136116	18.40	ug/L	98
92)	sec-Butylbenzene	14.797	105	688585	17.09	ug/L	100
93)	1,3-Dichlorobenzene	15.035	146	371259	18.76	ug/L	99
94)	4-Isopropyltoluene	14.916	119	553794	16.97	ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	407252	19.04	ug/L	95
96)	tert-Butylbenzene	14.571	91	296712	17.03	ug/L	97
97)	n-Butylbenzene	15.348	91	577055	17.48	ug/L	99
98)	1,2-Dichlorobenzene	15.542	146	376549	18.72	ug/L	99
99)	1,2,4-Trimethylbenzene	14.635	105	563091	17.82	ug/L	99
100)	Hexachloroethane	15.758	119	138083	18.03	ug/L	96
101)	1,2-Dibromo-3-Chloropr...	16.362	75	36009	21.08	ug/L	96
102)	1,2,4-Trichlorobenzene	17.225	180	275121	17.98	ug/L	99
103)	Hexachlorobutadiene	17.290	225	121997	18.01	ug/L	94
104)	Naphthalene	17.559	128	579743	18.62	ug/L	98
105)	1,2,3-Trichlorobenzene	17.851	180	281925	18.74	ug/L	99
107)	TPH-GRO (C6-C10)	10.655	TIC	53002438m	1012.09	ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

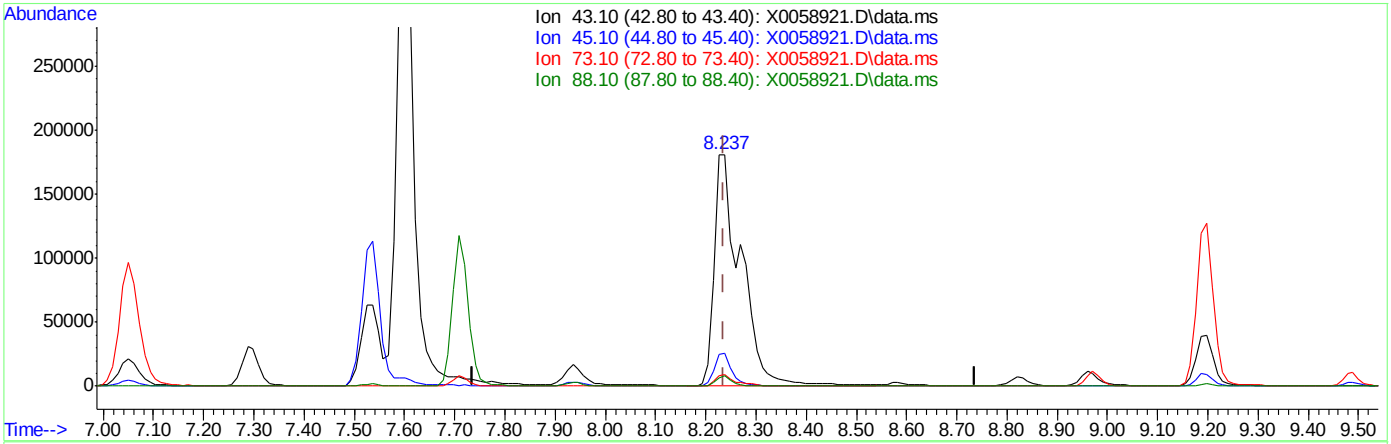
Quant Time: Feb 09 09:10:03 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration

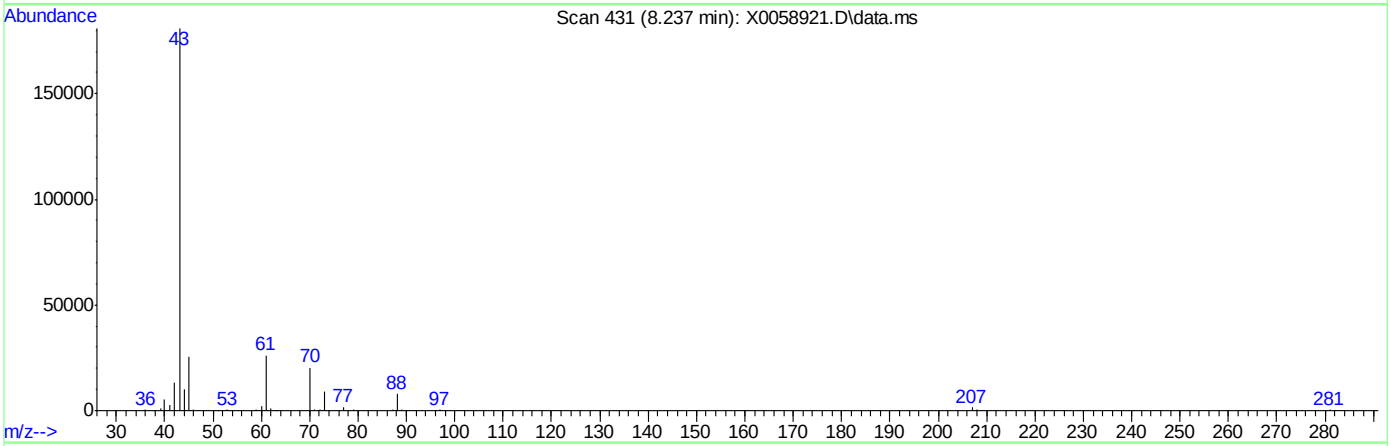


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:09:40 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (-0.000) 166.46ug/L

response 654683

Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.23
73.10	5.10	4.97
88.10	4.30	4.39

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:09:40 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
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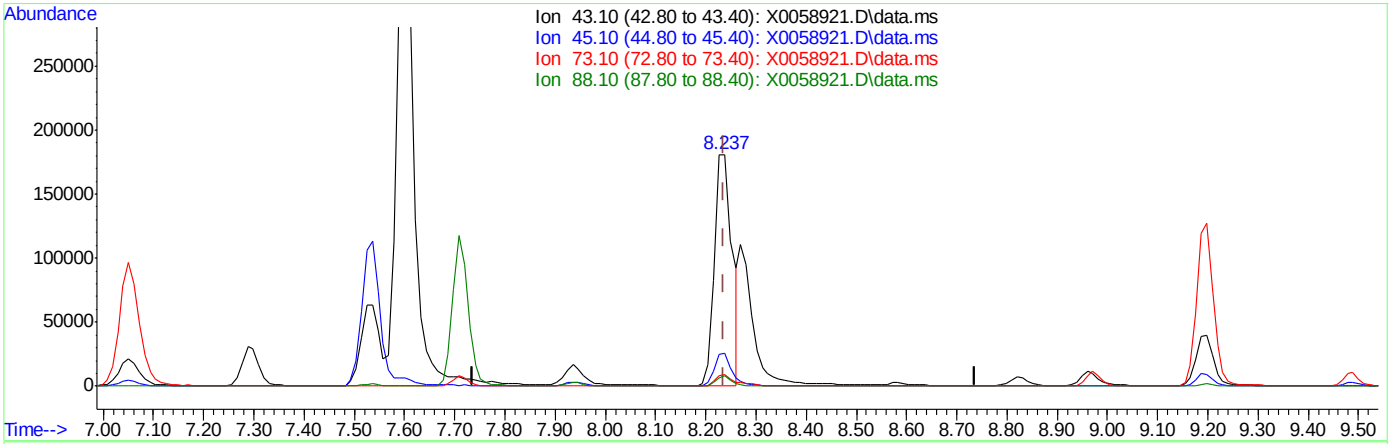
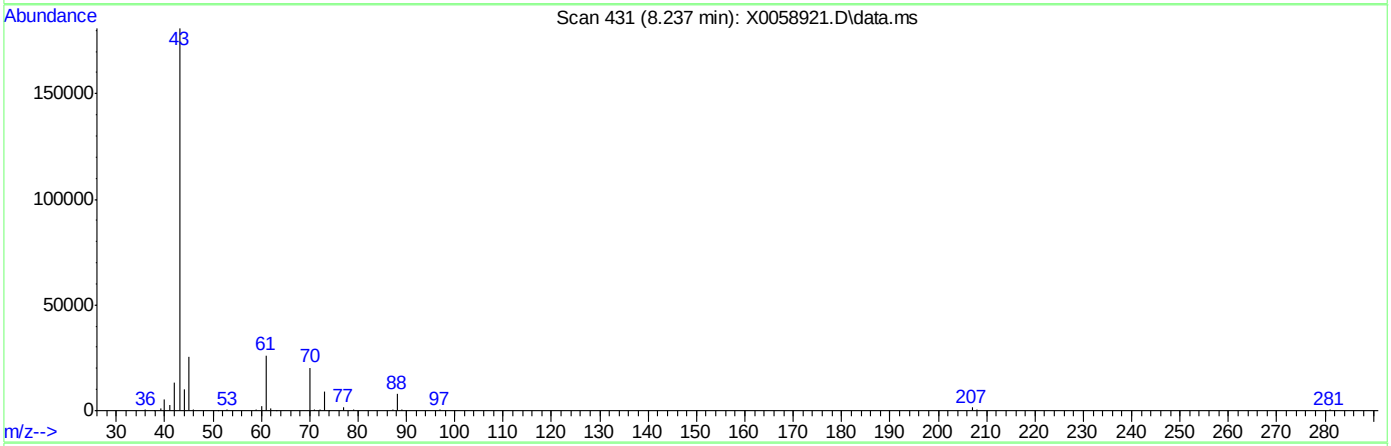




TIC: X0058921.D\data.ms

(31) Ethyl Acetate

8.237min (-0.000) 109.63ug/L m

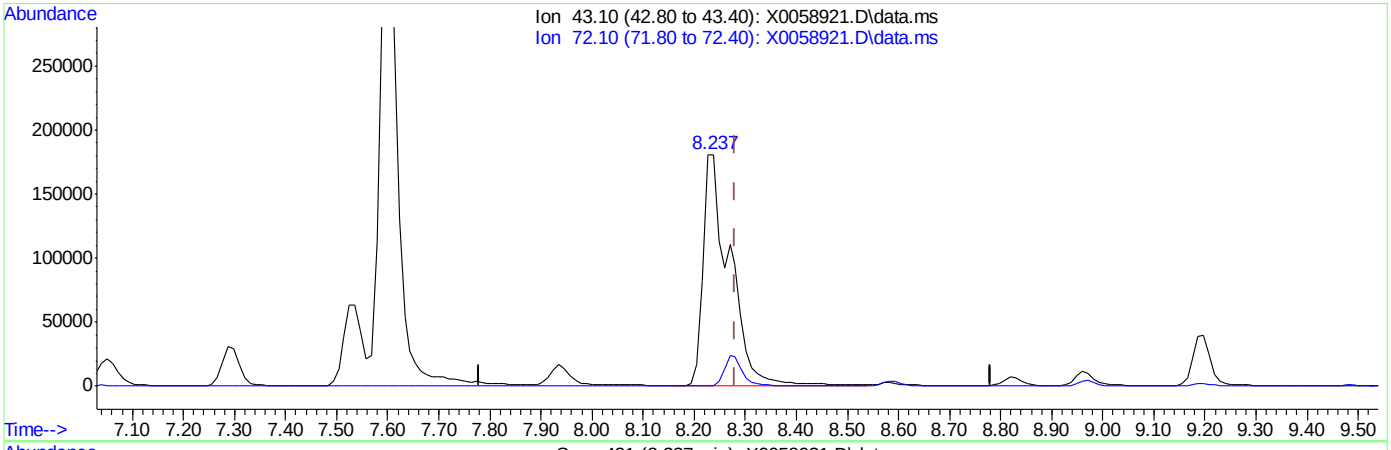
response 431156

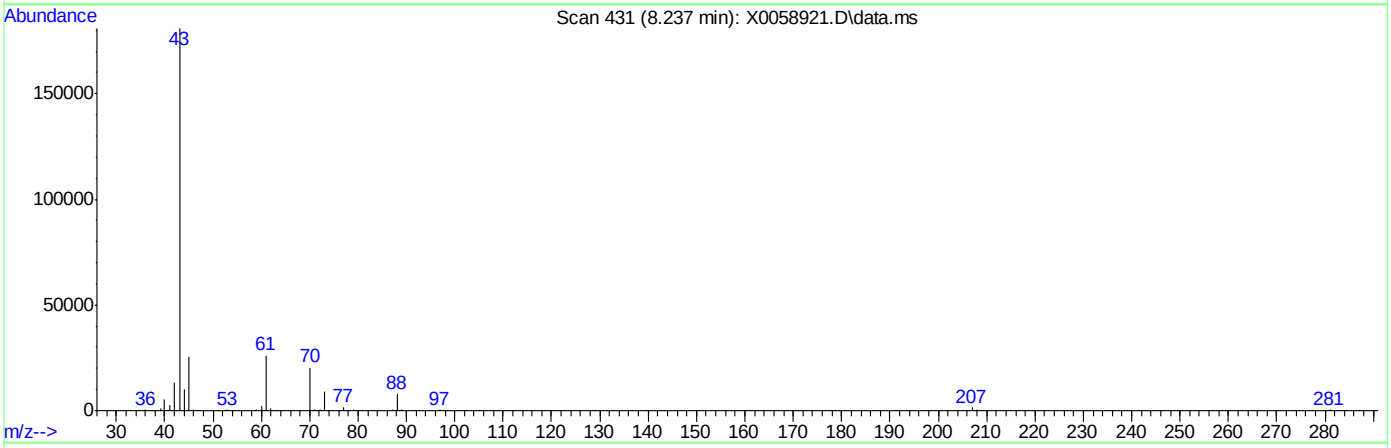
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.18
73.10	5.10	4.95
88.10	4.30	4.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:09:40 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration





TIC: X0058921.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 297.13ug/L

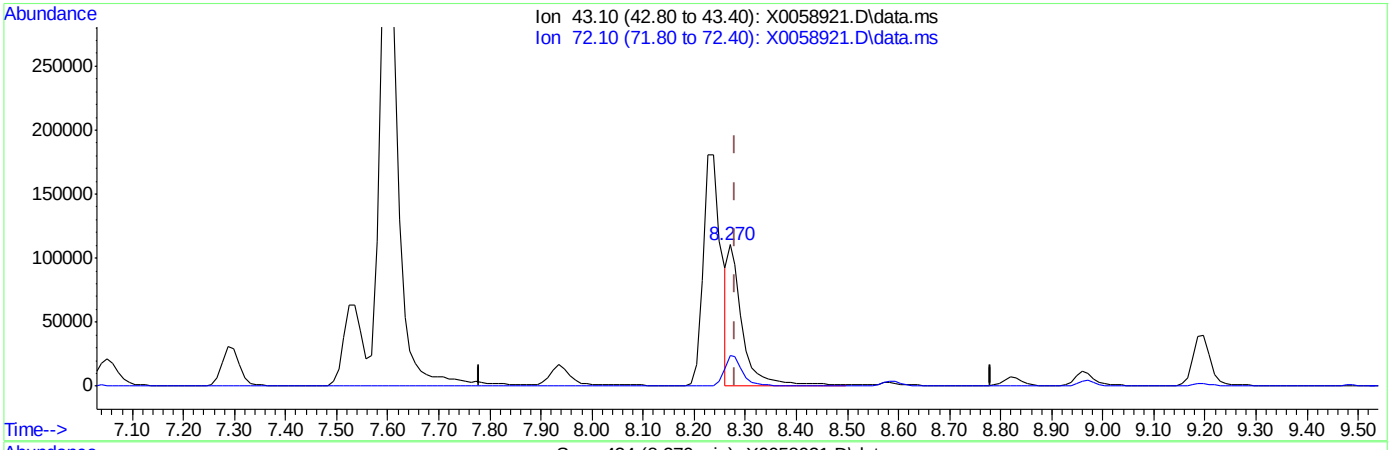
response 654683

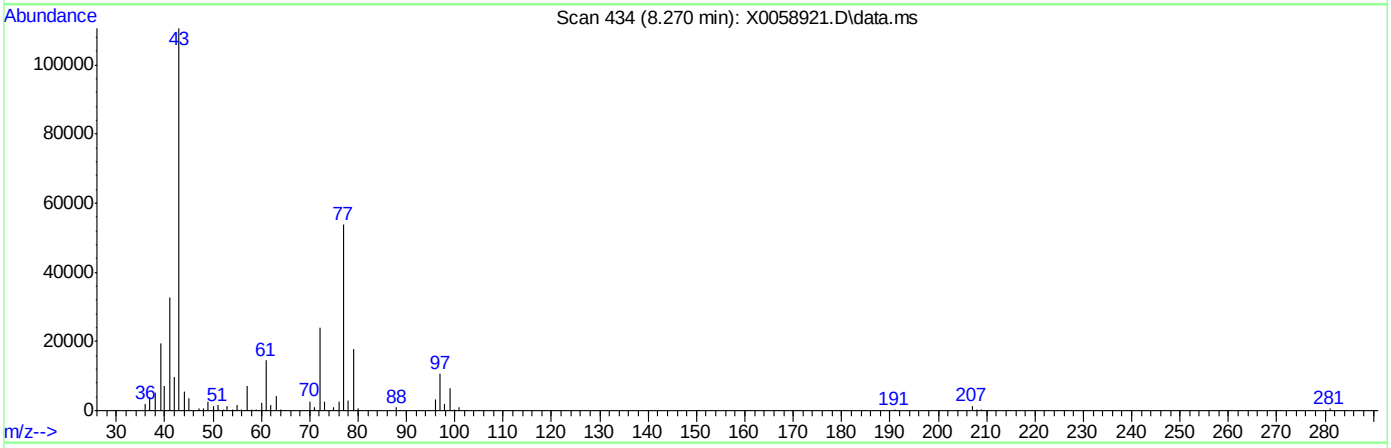
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058921.D
Acq On : 8 Feb 2010 1:30 pm
Operator : jennl
Sample : ic439-20
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 09:09:40 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:09:29 2010
Response via : Initial Calibration





TIC: X0058921.D\data.ms

(32) 2-Butanone

8.270min (-0.011) 102.78ug/L m

response 226460

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	21.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:43 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1722696	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1521478	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.100	152	965768	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.100	152	965768	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	350837	46.37	ug/L	0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 92.74%			
44) 1,2-Dichloroethane-d4	9.208	65	382598	50.21	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.42%			
61) Toluene-d8	11.097	98	1107981	43.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.22%			
82) 4-Bromofluorobenzene	13.880	95	472777	38.13	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 76.26%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	521635	52.56	ug/L	99
3) Chloromethane	4.191	50	252045	54.72	ug/L	99
4) Vinyl Chloride	4.407	62	240390	54.75	ug/L	98
5) Bromomethane	4.990	94	209834	61.72	ug/L	98
6) Chloroethane	5.130	64	136440	54.30	ug/L	99
7) Trichlorofluoromethane	5.475	101	563041	58.51	ug/L	100
8) Ethyl Ether	5.810	59	118014	47.36	ug/L	96
9) Acrolein	6.133	56	39219	191.16	ug/L	98
10) 1,1-Dichloroethene	6.198	61	390992	47.23	ug/L	90
11) Freon 113	6.122	101	322811	45.79	ug/L	99
12) Acetone	6.306	43	297673	221.10	ug/L	92
13) Iodomethane	6.479	142	504870	40.80	ug/L	94
14) Methyl Acetate	6.640	43	739616	208.72	ug/L	95
15) Carbon Disulfide	6.554	76	904718	40.85	ug/L	90
16) Methylene Chloride	6.856	49	356440	45.97	ug/L	87
17) Tert Butyl Alcohol	6.867	59	139138	330.89	ug/L	92
18) Allyl Chloride	6.673	41	380046	59.29	ug/L	93
19) Acetonitrile	6.759	41	61022	104.94	ug/L	93
20) trans-1,2-Dichloroethene	7.126	61	388017	47.42	ug/L	92
21) Acrylonitrile	7.212	53	343757	205.30	ug/L	96
22) Methyl Tert Butyl Ether	7.061	73	618440	39.59	ug/L	95
23) Hexane	7.299	57	294884	42.54	ug/L	93
24) 1,1-Dichloroethane	7.665	63	503866	45.64	ug/L	98
25) Vinyl Acetate	7.601	43	2033554	229.48	ug/L	96
26) Di-isopropyl ether	7.536	45	716888	44.37	ug/L	93
27) Chloroprene	7.719	53	1021354	60.90	ug/L	93
28) Ethyl tert-butyl ether	7.946	59	716492	42.49	ug/L	99
29) 2,2-Dichloropropane	8.291	77	449312	52.07	ug/L	98
30) cis-1,2-Dichloroethene	8.302	96	293310	42.56	ug/L	88
31) Ethyl Acetate	8.237	43	834486m	196.08	ug/L	
32) 2-Butanone	8.280	43	467514m	211.46	ug/L	
33) Propionitrile	8.453	54	144663	197.89	ug/L	98
34) Methacrylonitrile	8.820	41	235316	53.05	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:43 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.593	128	178342	43.06	ug/L	92
36) Chloroform	8.604	83	564079	45.79	ug/kg	96
37) Tetrahydrofuran	8.820	42	96242	53.67	ug/L	97
38) 1,1,1-Trichloroethane	8.820	97	506684	49.18	ug/L	97
40) Cyclohexane	8.820	56	412172	45.45	ug/L	94
41) n-Butyl Alcohol	9.662	56	27314	312.29	ug/L	95
42) 1,1-Dichloropropene	8.971	75	373843	44.62	ug/L	93
43) Carbon Tetrachloride	8.971	117	490883	53.01	ug/L	98
45) Benzene	9.208	78	1089082	43.71	ug/L	90
46) Isobutyl Alcohol	9.198	43	215731	491.23	ug/L	98
47) 1,2-Dichloroethane	9.284	62	412155	48.41	ug/L	99
48) tert-amyl methyl ether	9.198	73	690778	42.91	ug/L	94
49) Trichloroethene	9.856	95	287006	43.35	ug/L	99
50) Methylcyclohexane	10.007	83	442734	41.89	ug/L	95
51) Methyl Methacrylate	10.104	41	153406	41.54	ug/L	85
52) 1,2-Dichloropropane	10.158	63	284916	45.39	ug/L	95
53) Dibromomethane	10.309	93	197719	42.26	ug/kg	93
54) 1,4-Dioxane	10.233	88	37211	546.30	ug/L	95
55) Bromodichloromethane	10.406	83	421279	45.47	ug/L	99
56) 2-Nitropropane	10.687	41	325230	258.16	ug/L	98
57) 2-Chloroethyl vinyl ether	10.633	63	793279	222.93	ug/L	94
58) 4-Methyl-2-pentanone	10.935	43	1047531	230.51	ug/L	95
59) cis-1,3-Dichloropropene	10.859	75	461724	42.20	ug/L	96
62) Toluene	11.172	91	1181464	37.82	ug/L	100
63) Ethyl Methacrylate	11.355	69	300277	34.78	ug/L	98
64) trans-1,3-Dichloropropene	11.431	75	408381	40.08	ug/L	93
65) 1,1,2-Trichloroethane	11.636	83	229619	37.67	ug/L	95
66) Tetrachloroethene	11.733	166	355129	40.53	ug/L	98
67) 2-hexanone	11.787	43	750495	203.35	ug/L	94
68) 1,3-Dichloropropane	11.841	76	471449	40.71	ug/L	94
69) Dibromochloromethane	12.068	129	348060	41.77	ug/L	99
70) 1,2-Dibromoethane	12.251	107	275963	38.38	ug/L	99
71) 1-Chlorohexane	12.532	91	391611	38.10	ug/L	87
72) Chlorobenzene	12.693	112	933455	41.14	ug/L	98
73) 1,1,1,2-Tetrachloroethane	12.758	131	366708	43.63	ug/L	98
74) Ethylbenzene	12.715	91	1478051	43.59	ug/L	98
75) m,p-Xylene	12.834	91	2351887	86.25	ug/L	100
76) o-Xylene	13.276	91	1185785	41.38	ug/L	99
77) Styrene	13.298	104	957422	40.61	ug/L	98
78) Bromoform	13.600	173	243711	38.09	ug/L	98
80) Isopropylbenzene	13.621	105	1279974	37.63	ug/L	98
81) Cyclohexanone	13.880	55	31509	325.59	ug/L #	79
83) Bromobenzene	14.085	156	453146	40.24	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	386833	35.43	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.064	53	108824	40.43	ug/L	93
86) 1,2,3-Trichloropropane	14.096	110	114905	37.63	ug/L	93
87) n-Propylbenzene	14.053	91	1833200	39.60	ug/L	100
88) 2-Chlorotoluene	14.236	91	1296271	40.07	ug/L	99
89) 4-Chlorotoluene	14.344	91	1143636	38.71	ug/L	98
90) 1,3,5-Trimethylbenzene	14.215	105	1279494	39.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:43 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

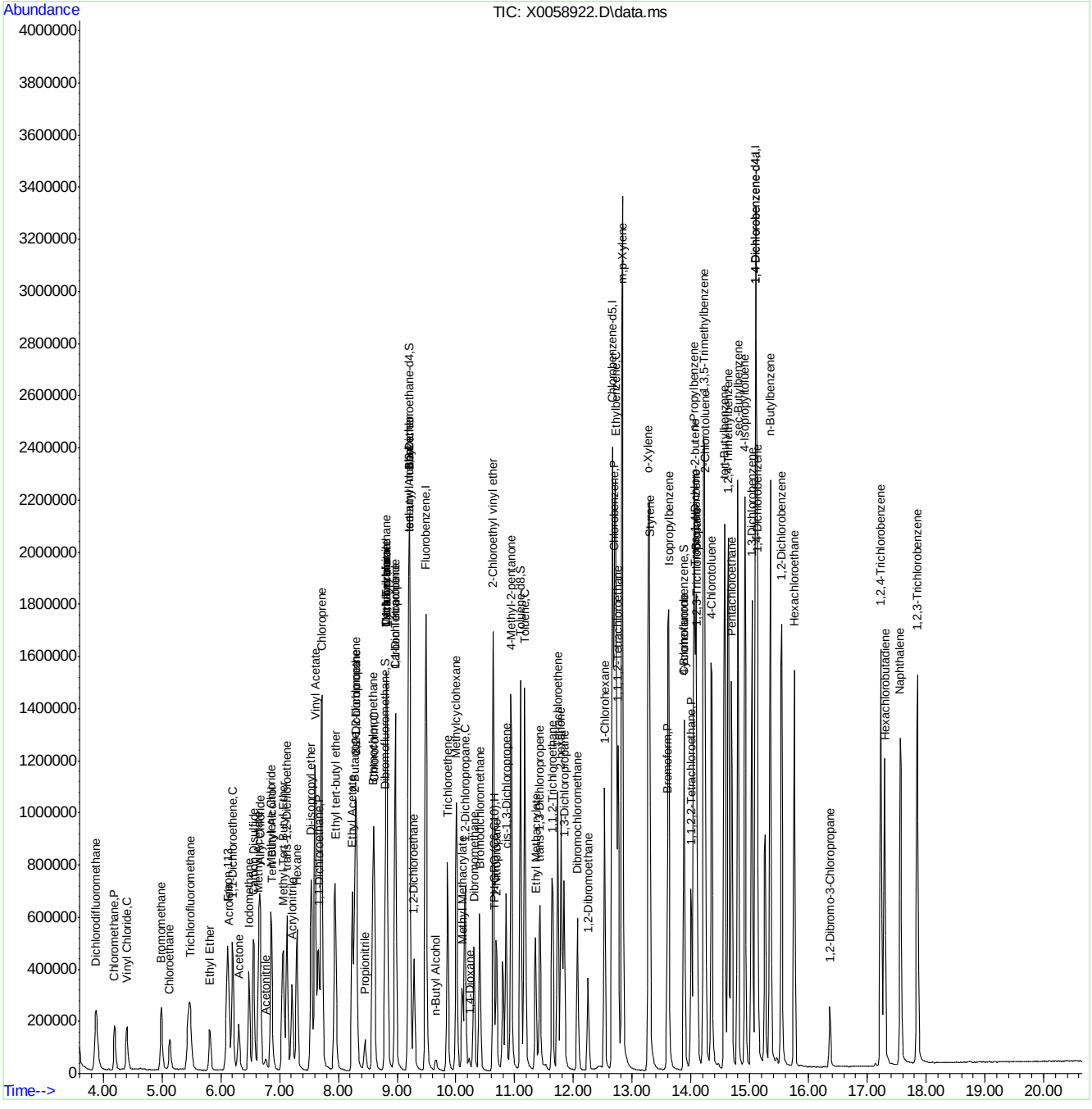
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91)	Pentachloroethane	14.690	167	312050	41.06 ug/L	98
92)	sec-Butylbenzene	14.797	105	1699420	39.30 ug/L	99
93)	1,3-Dichlorobenzene	15.035	146	835058	40.99 ug/L	99
94)	4-Isopropyltoluene	14.916	119	1376503	39.85 ug/L	98
95)	1,4-Dichlorobenzene	15.132	146	902206	38.96 ug/L	99
96)	tert-Butylbenzene	14.571	91	734923	39.33 ug/L	98
97)	n-Butylbenzene	15.348	91	1392830	40.55 ug/L	99
98)	1,2-Dichlorobenzene	15.542	146	848652	40.61 ug/L	99
99)	1,2,4-Trimethylbenzene	14.636	105	1333112	39.28 ug/L	99
100)	Hexachloroethane	15.758	119	323115	45.77 ug/L	98
101)	1,2-Dibromo-3-Chloropr...	16.362	75	72063	38.45 ug/L	88
102)	1,2,4-Trichlorobenzene	17.225	180	645442	37.99 ug/L	99
103)	Hexachlorobutadiene	17.301	225	285763	43.20 ug/L	97
104)	Naphthalene	17.560	128	1313756	35.62 ug/L	100
105)	1,2,3-Trichlorobenzene	17.851	180	634555	42.08 ug/L	100
107)	TPH-GRO (C6-C10)	10.655	TIC	110471848m	2050.36 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

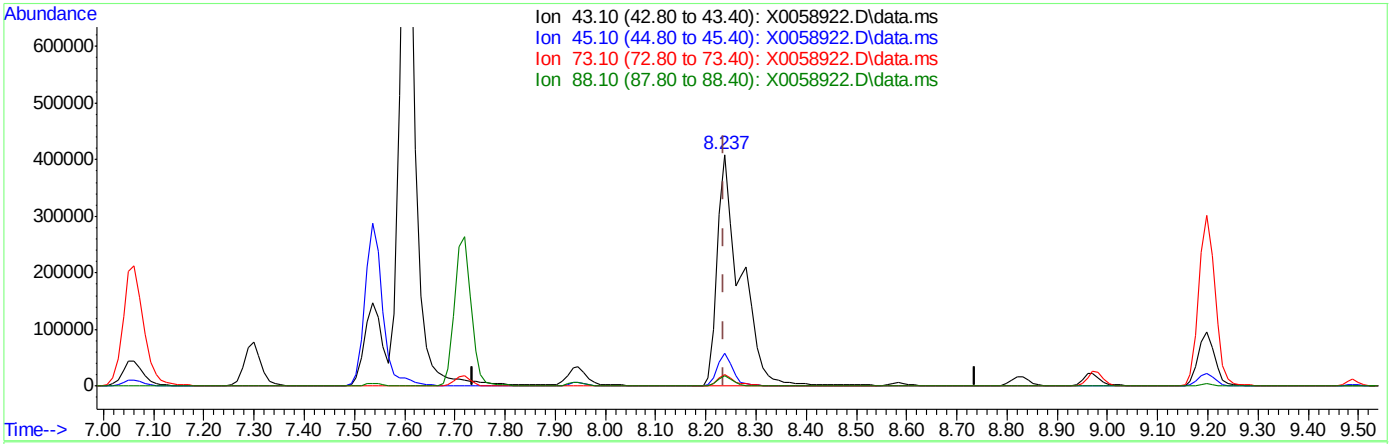
Quant Time: Feb 09 09:08:43 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration

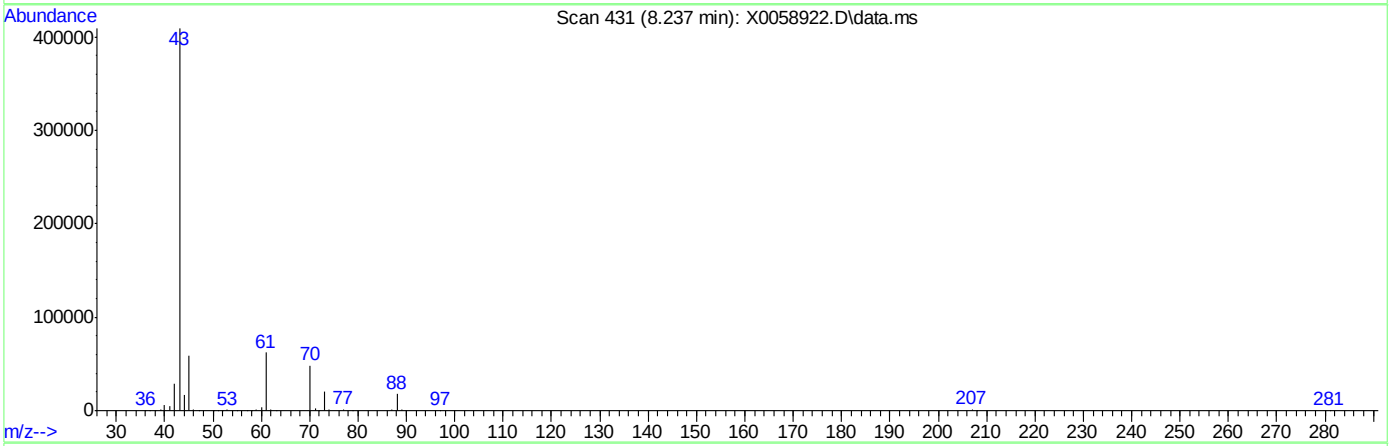


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058922.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 299.14ug/L

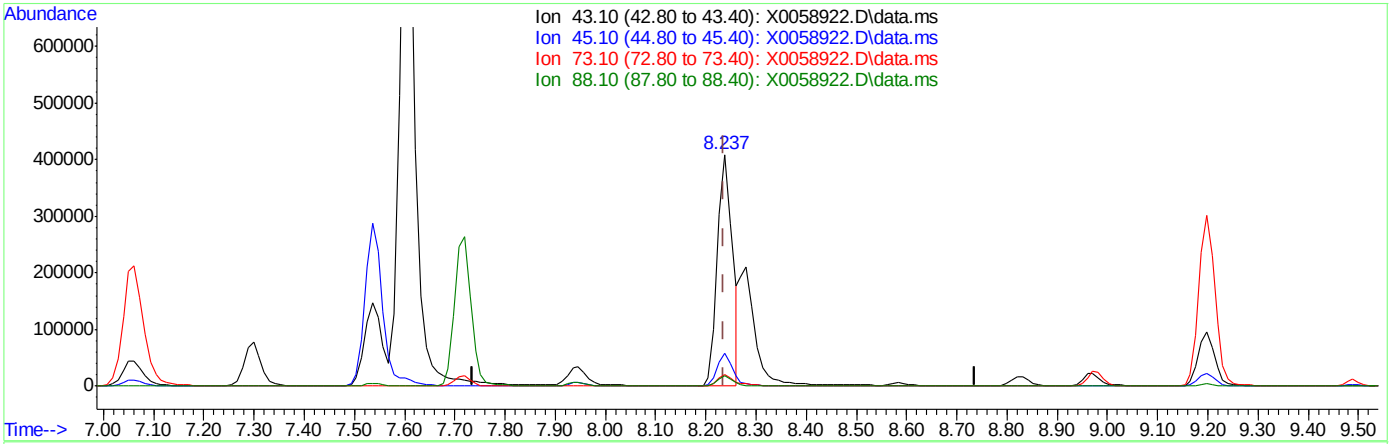
response 1299930

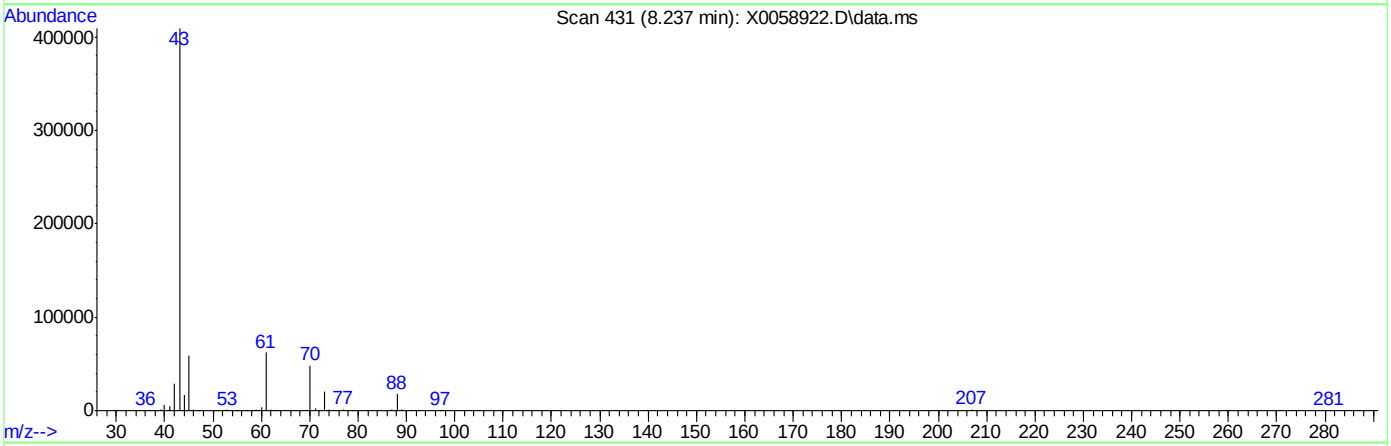
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.39
73.10	5.80	5.13
88.10	5.20	4.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058922.D\data.ms

(31) Ethyl Acetate

8.237min (+0.000) 196.08ug/L m

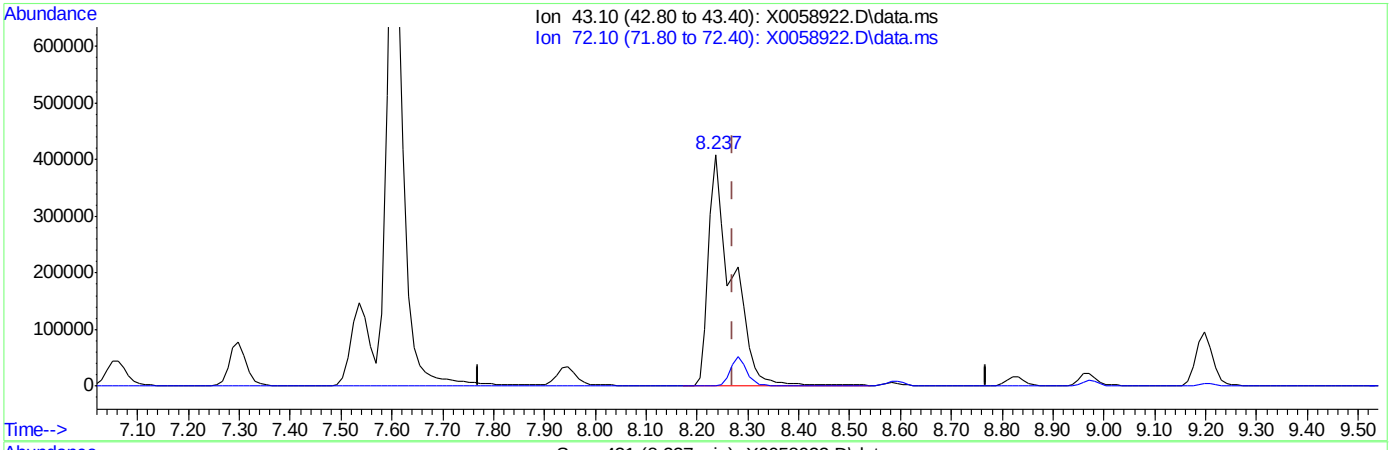
response 834486

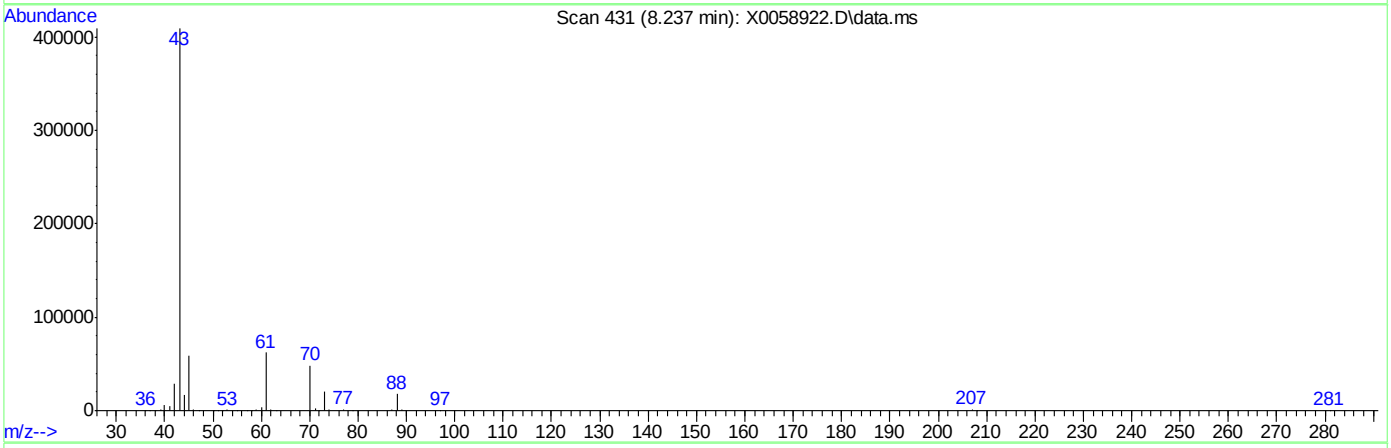
Ion	Exp%	Act%
43.10	100	100
45.10	14.60	14.37
73.10	5.80	5.12
88.10	5.20	4.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058922.D\data.ms

(32) 2-Butanone

8.237min (-0.033) 798.71ug/L

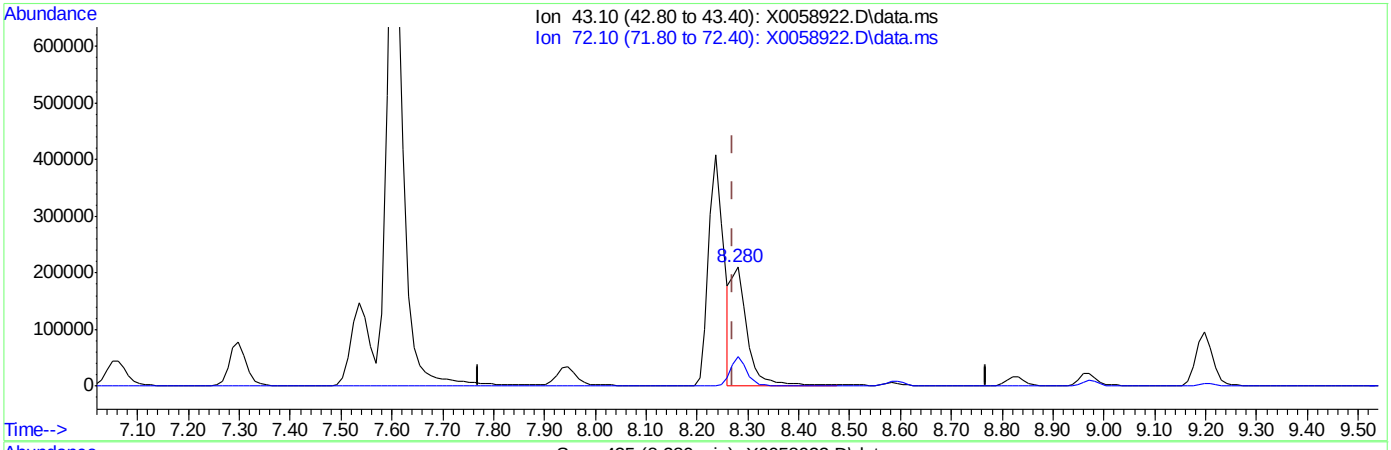
response 1299930

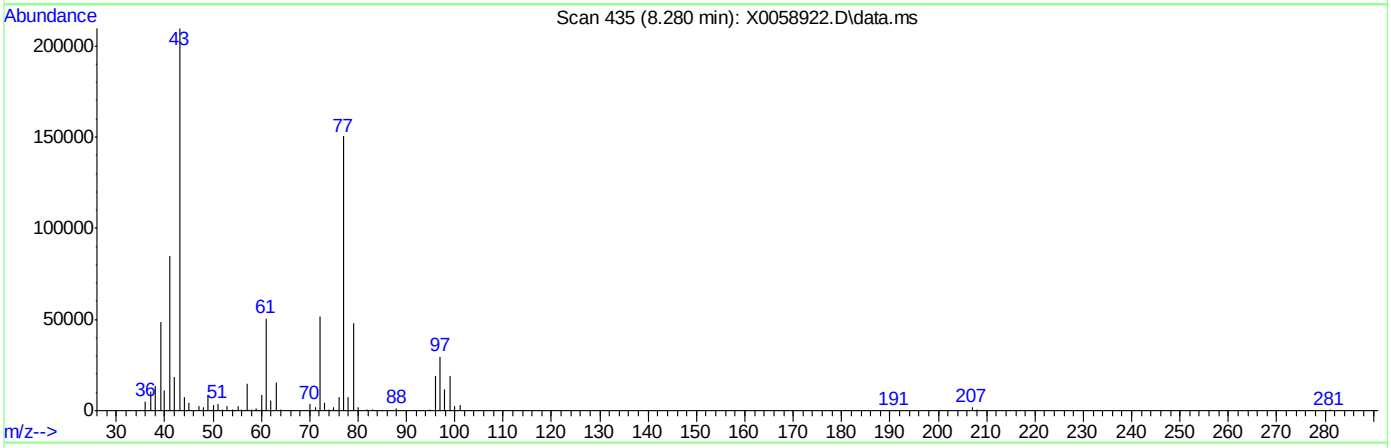
Ion	Exp%	Act%
43.10	100	100
72.10	23.80	0.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058922.D
Acq On : 8 Feb 2010 1:59 pm
Operator : jennl
Sample : icc439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 09:08:01 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Fri Feb 05 09:12:02 2010
Response via : Initial Calibration





TIC: X0058922.D\data.ms

(32) 2-Butanone

8.280min (+0.010) 211.46ug/L m

response 467514

Ion	Exp%	Act%
43.10	100	100
72.10	23.80	24.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1840999	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1610593	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	1033849	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	1033849	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	908522	99.22	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 198.44%#			
44) 1,2-Dichloroethane-d4	9.208	65	967692	94.50	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 189.00%#			
61) Toluene-d8	11.096	98	2951413	104.62	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 209.24%#			
82) 4-Bromofluorobenzene	13.880	95	1298128	109.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 219.70%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	1290895	94.40	ug/L	99
3) Chloromethane	4.202	50	598271	86.43	ug/L	100
4) Vinyl Chloride	4.407	62	600037	90.90	ug/L	96
5) Bromomethane	4.989	94	459540	76.80	ug/L	98
6) Chloroethane	5.130	64	308826	79.84	ug/L	98
7) Trichlorofluoromethane	5.475	101	1359061	89.59	ug/L	98
8) Ethyl Ether	5.809	59	304213	92.51	ug/L	98
9) Acrolein	6.122	56	112436	537.73	ug/L	98
10) 1,1-Dichloroethene	6.198	61	1037926	105.39	ug/L	98
11) Freon 113	6.112	101	812311	97.97	ug/L	99
12) Acetone	6.306	43	801828	473.35	ug/L	99
13) Iodomethane	6.478	142	1395825	109.76	ug/L	99
14) Methyl Acetate	6.640	43	1910341	460.75	ug/L	99
15) Carbon Disulfide	6.554	76	2344880	101.27	ug/L	99
16) Methylene Chloride	6.856	49	865432	91.00	ug/L	96
17) Tert Butyl Alcohol	6.867	59	406290	1065.43	ug/L	93
18) Allyl Chloride	6.673	41	979288	102.12	ug/L	100
19) Acetonitrile	6.759	41	156327	227.92	ug/L	96
20) trans-1,2-Dichloroethene	7.126	61	1003880	101.84	ug/L	100
21) Acrylonitrile	7.212	53	855175	454.43	ug/L	98
22) Methyl Tert Butyl Ether	7.061	73	1776838	111.46	ug/L	97
23) Hexane	7.298	57	779316	108.26	ug/L	97
24) 1,1-Dichloroethane	7.665	63	1262572	94.76	ug/L	100
25) Vinyl Acetate	7.601	43	5359845	489.85	ug/L	99
26) Di-isopropyl ether	7.536	45	1961036	109.28	ug/L	97
27) Chloroprene	7.708	53	2590191	99.47	ug/L	98
28) Ethyl tert-butyl ether	7.946	59	1969166	107.62	ug/L	98
29) 2,2-Dichloropropane	8.291	77	1127218	96.41	ug/L	100
30) cis-1,2-Dichloroethene	8.302	96	769610	100.17	ug/L	97
31) Ethyl Acetate	8.237	43	2331834m	498.93	ug/L	
32) 2-Butanone	8.280	43	1161532m	458.59	ug/L	
33) Propionitrile	8.453	54	395416	498.20	ug/L	99
34) Methacrylonitrile	8.820	41	594934	99.82	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.582	128	461802	97.35	ug/L	95
36) Chloroform	8.604	83	1417876	95.82	ug/kg	99
37) Tetrahydrofuran	8.820	42	234340	97.22	ug/L	93
38) 1,1,1-Trichloroethane	8.820	97	1308057	99.69	ug/L	98
40) Cyclohexane	8.820	56	1073903	107.51	ug/L	97
41) n-Butyl Alcohol	9.651	56	90951	1299.27	ug/L	93
42) 1,1-Dichloropropene	8.971	75	996496	107.52	ug/L	99
43) Carbon Tetrachloride	8.971	117	1273334	101.52	ug/L	98
45) Benzene	9.208	78	2728397	95.72	ug/L	99
46) Isobutyl Alcohol	9.197	43	583858	1048.00	ug/L	96
47) 1,2-Dichloroethane	9.284	62	1059332	95.63	ug/L	99
48) tert-amyl methyl ether	9.197	73	1921886	109.18	ug/L	95
49) Trichloroethene	9.856	95	780760	107.93	ug/L	97
50) Methylcyclohexane	10.007	83	1210894	113.47	ug/L	98
51) Methyl Methacrylate	10.104	41	475526	122.01	ug/L	95
52) 1,2-Dichloropropane	10.158	63	730708	97.39	ug/L	98
53) Dibromomethane	10.309	93	523781	98.00	ug/kg	98
54) 1,4-Dioxane	10.222	88	109252	2202.29	ug/L	95
55) Bromodichloromethane	10.406	83	1127414	102.40	ug/L	100
56) 2-Nitropropane	10.686	41	880622	493.83	ug/L	98
57) 2-Chloroethyl vinyl ether	10.632	63	2131412	508.06	ug/L	98
58) 4-Methyl-2-pentanone	10.935	43	2775067	478.09	ug/L	99
59) cis-1,3-Dichloropropene	10.848	75	1275078	109.48	ug/L	98
62) Toluene	11.172	91	3159686	105.34	ug/L	99
63) Ethyl Methacrylate	11.355	69	923903	126.41	ug/L	99
64) trans-1,3-Dichloropropene	11.431	75	1129702	108.28	ug/L	98
65) 1,1,2-Trichloroethane	11.636	83	604660	98.04	ug/L	97
66) Tetrachloroethene	11.733	166	972752	109.61	ug/L	98
67) 2-hexanone	11.787	43	2054623	500.14	ug/L	99
68) 1,3-Dichloropropane	11.841	76	1214957	96.26	ug/L	97
69) Dibromochloromethane	12.067	129	972703	107.85	ug/L	98
70) 1,2-Dibromoethane	12.251	107	774705	107.66	ug/L	99
71) 1-Chlorohexane	12.531	91	1097076	120.34	ug/L	95
72) Chlorobenzene	12.693	112	2426726	100.33	ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.758	131	982554	103.83	ug/L	99
74) Ethylbenzene	12.715	91	3879495	104.20	ug/L	98
75) m,p-Xylene	12.834	91	6140434	207.31	ug/L	99
76) o-Xylene	13.276	91	3175763	109.04	ug/L	100
77) Styrene	13.297	104	2568397	108.11	ug/L	99
78) Bromoform	13.600	173	705814	111.35	ug/L	99
80) Isopropylbenzene	13.621	105	3533395	113.48	ug/L	100
81) Cyclohexanone	13.880	55	95170	1156.71	ug/L	90
83) Bromobenzene	14.085	156	1217921	102.97	ug/L	99
84) 1,1,2,2-Tetrachloroethane	13.999	83	1003757	94.41	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.064	53	297422	101.22	ug/L	94
86) 1,2,3-Trichloropropane	14.096	110	303276	94.95	ug/L	97
87) n-Propylbenzene	14.053	91	4880674	107.02	ug/L	99
88) 2-Chlorotoluene	14.236	91	3356210	100.40	ug/L	99
89) 4-Chlorotoluene	14.344	91	3057936	105.23	ug/L	98
90) 1,3,5-Trimethylbenzene	14.215	105	3451179	108.97	ug/L	98

ACCUTEST Laboratories T46705

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration

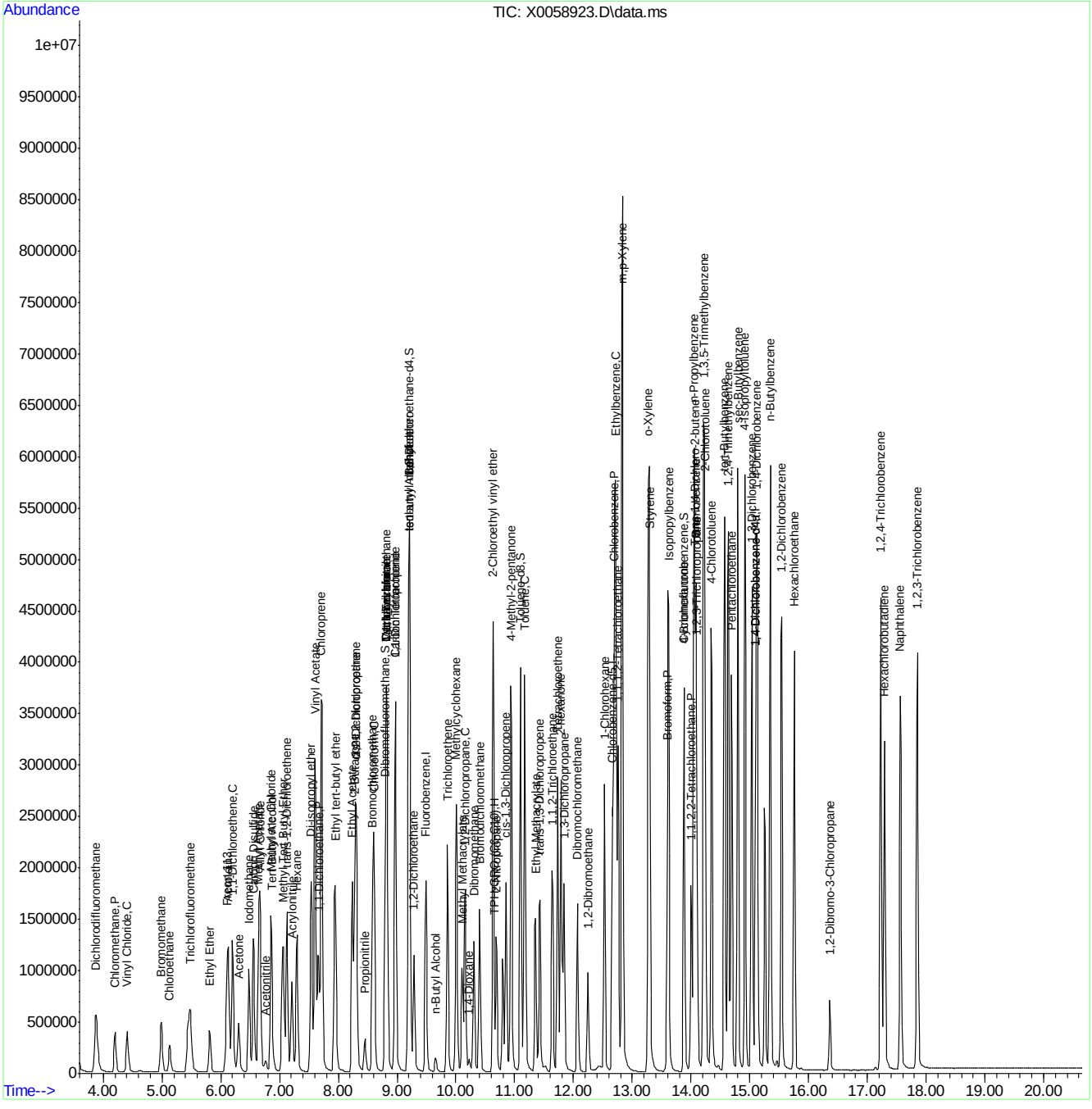
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91)	Pentachloroethane	14.689	167	863448	107.69 ug/L	98
92)	sec-Butylbenzene	14.797	105	4598449	109.03 ug/L	98
93)	1,3-Dichlorobenzene	15.035	146	2264380	104.57 ug/L	99
94)	4-Isopropyltoluene	14.916	119	3766268	110.61 ug/L	99
95)	1,4-Dichlorobenzene	15.121	146	2406203	102.10 ug/L	98
96)	tert-Butylbenzene	14.571	91	2001513	109.92 ug/L	98
97)	n-Butylbenzene	15.348	91	3712807	106.30 ug/L	98
98)	1,2-Dichlorobenzene	15.542	146	2281843	103.79 ug/L	99
99)	1,2,4-Trimethylbenzene	14.635	105	3569901	105.83 ug/L	99
100)	Hexachloroethane	15.758	119	882727	107.37 ug/L	97
101)	1,2-Dibromo-3-Chloropr...	16.362	75	194456	98.17 ug/L	90
102)	1,2,4-Trichlorobenzene	17.225	180	1841783	112.29 ug/L	99
103)	Hexachlorobutadiene	17.290	225	787065	108.30 ug/L	97
104)	Naphthalene	17.559	128	3768588	111.02 ug/L	100
105)	1,2,3-Trichlorobenzene	17.851	180	1753836	106.62 ug/L	99
107)	TPH-GRO (C6-C10)	10.655	TIC	309713561m	5206.38 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

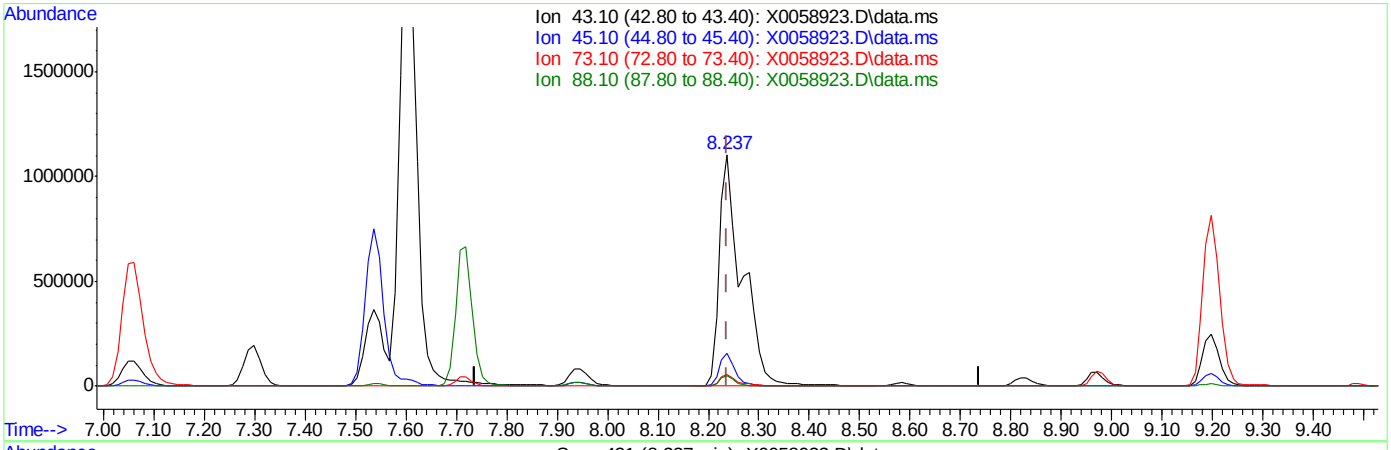
Quant Time: Feb 09 09:11:35 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration

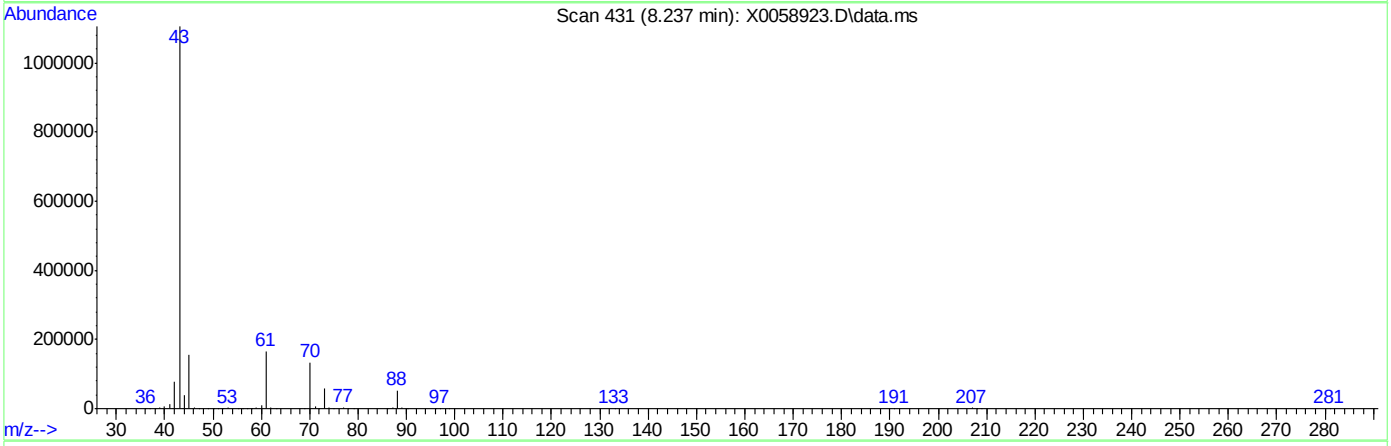


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:04 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (-0.000) 748.18ug/L

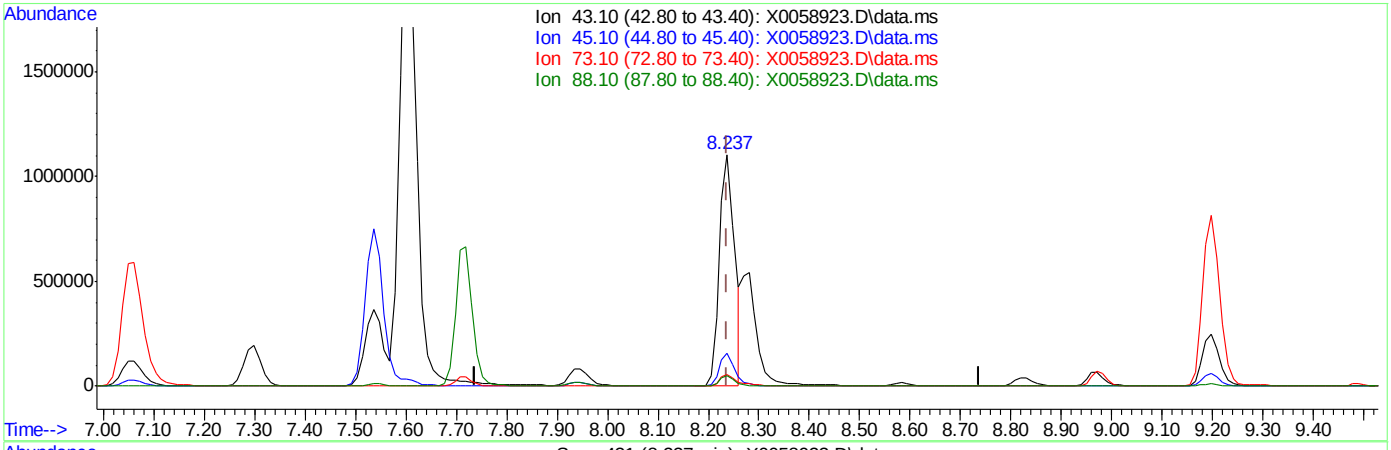
response 3496703

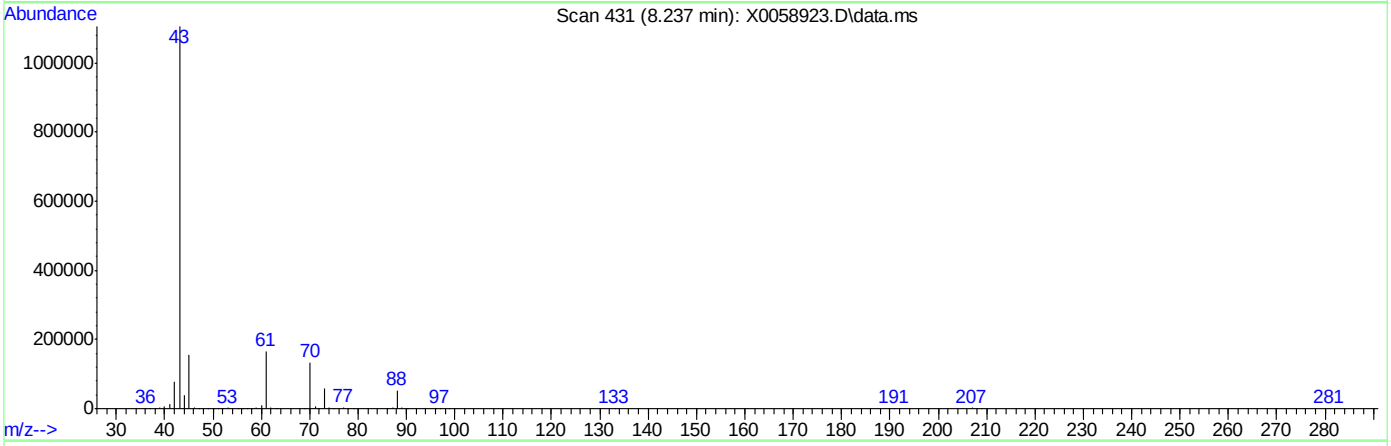
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.09
73.10	5.10	5.20
88.10	4.30	4.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:04 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (-0.000) 498.93ug/L m

response 2331834

Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.07
73.10	5.10	5.19
88.10	4.30	4.71

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On    :  8 Feb 2010   2:27 pm
Operator  : jennl
Sample    : ic439-100
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Feb 09 09:11:04 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration
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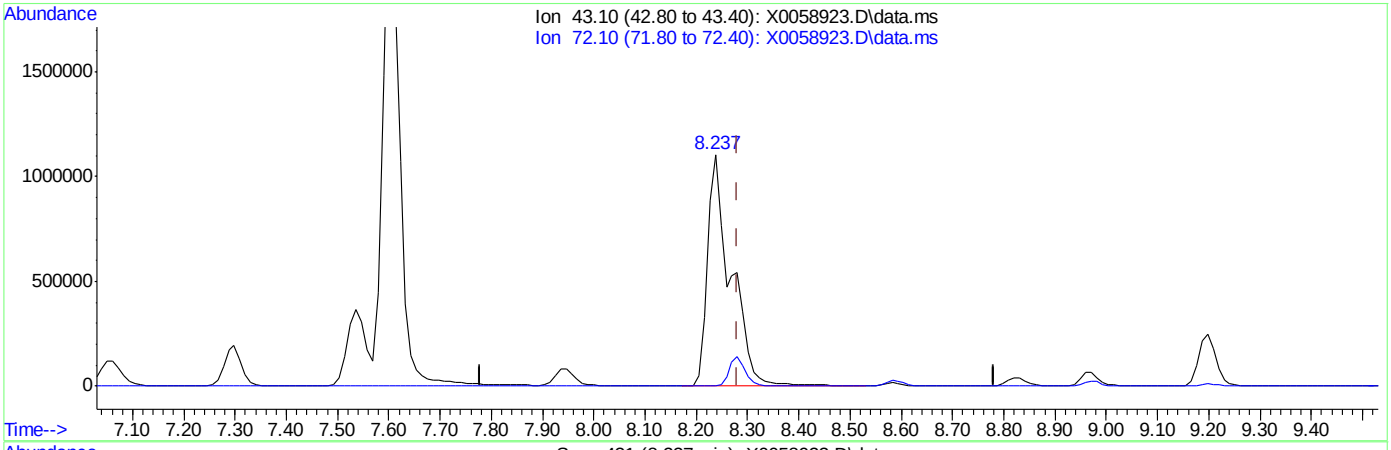
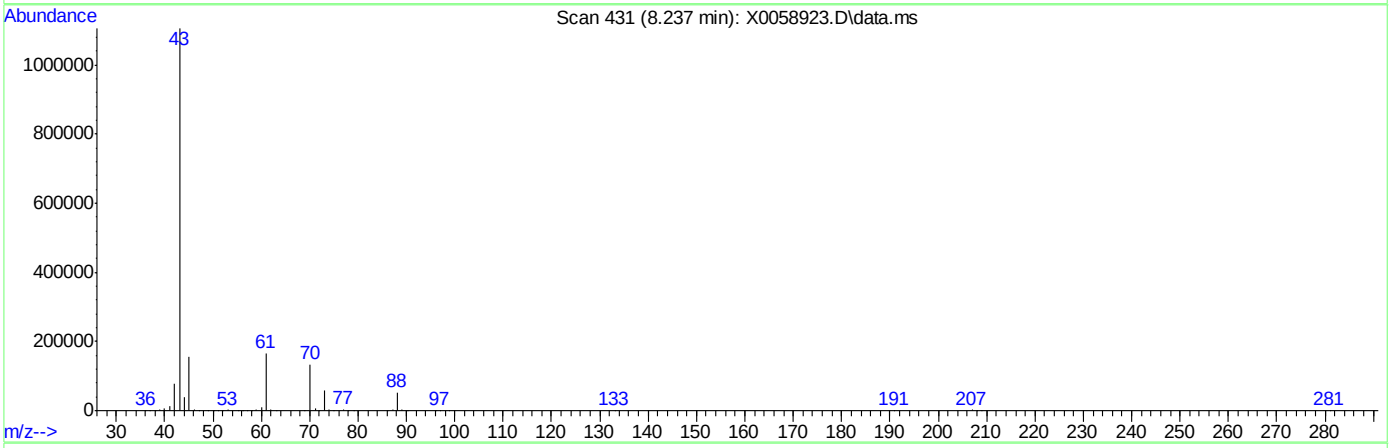




TIC: X0058923.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 1380.91ug/L

response 3497600

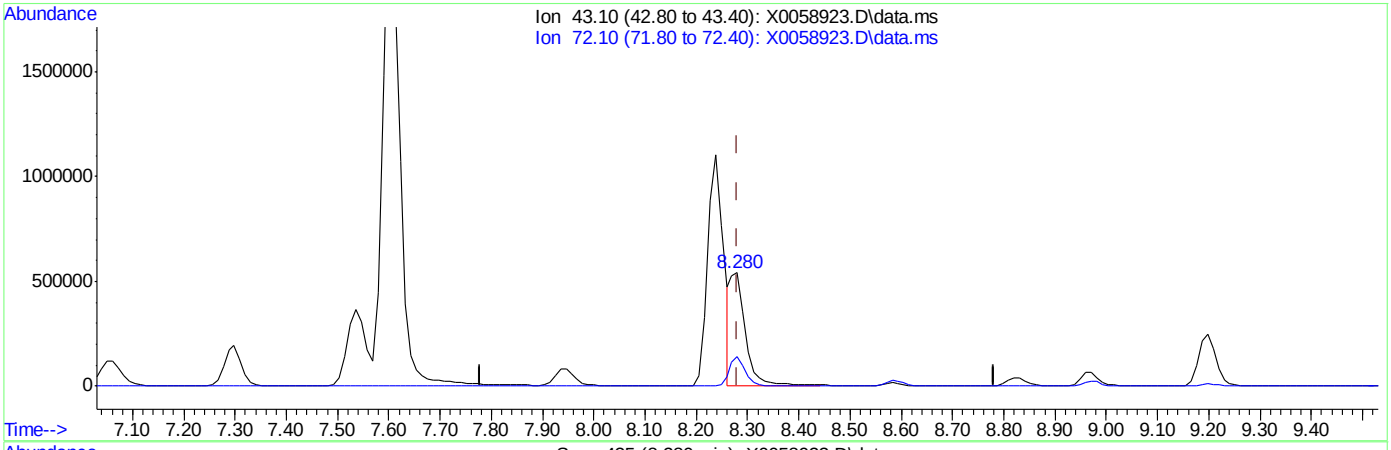
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.12
0.00	0.00	0.00
0.00	0.00	0.00

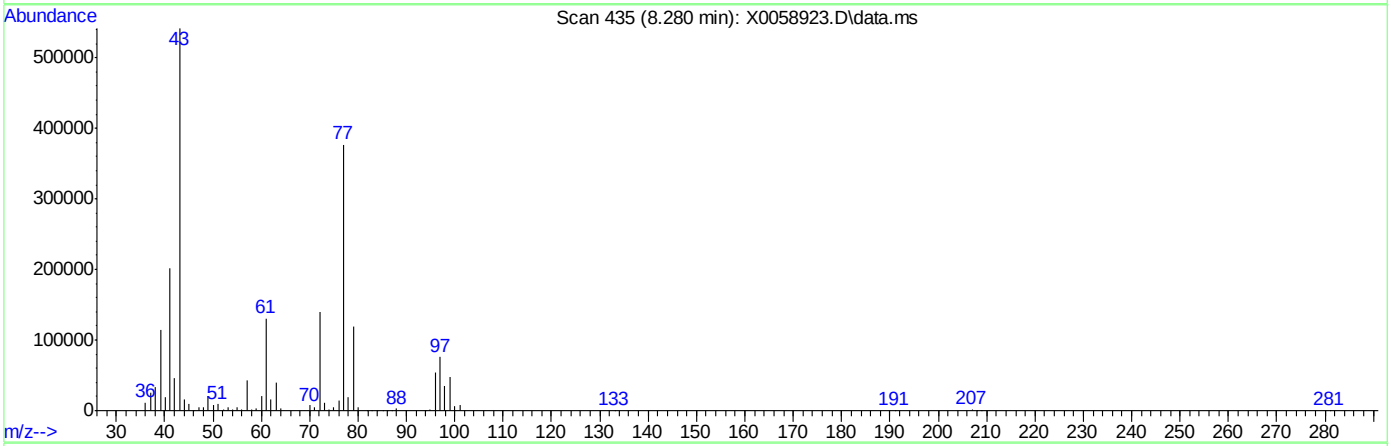
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058923.D
Acq On : 8 Feb 2010 2:27 pm
Operator : jennl
Sample : ic439-100
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 09 09:11:04 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:10:50 2010
Response via : Initial Calibration





TIC: X0058923.D\data.ms

(32) 2-Butanone

8.280min (-0.000) 458.59ug/L m

response 1161532

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	25.94
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 09:19:13 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1996544	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1744912	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	1133295	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	1133295	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	1869226	191.46	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 382.92%#			
44) 1,2-Dichloroethane-d4	9.208	65	1891468	171.16	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 342.32%#			
61) Toluene-d8	11.096	98	6099107	217.60	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 435.20%#			
82) 4-Bromofluorobenzene	13.880	95	2835896	243.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 487.54%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	2623528	181.76	ug/L	98
3) Chloromethane	4.213	50	1417968	186.68	ug/L	100
4) Vinyl Chloride	4.428	62	1432615	206.00	ug/L	97
5) Bromomethane	4.989	94	834569	127.85	ug/L	99
6) Chloroethane	5.130	64	563393	134.53	ug/L	99
7) Trichlorofluoromethane	5.486	101	2858233	177.76	ug/L	98
8) Ethyl Ether	5.809	59	717636	203.35	ug/L	99
9) Acrolein	6.122	56	243151	1109.17	ug/L	98
10) 1,1-Dichloroethene	6.198	61	2186841	206.44	ug/L	97
11) Freon 113	6.122	101	1632308	180.85	ug/L	97
12) Acetone	6.306	43	1802614	915.47	ug/L	100
13) Iodomethane	6.478	142	3101952	225.71	ug/L	98
14) Methyl Acetate	6.640	43	4195152	940.95	ug/L	98
15) Carbon Disulfide	6.554	76	4963582	198.30	ug/L	98
16) Methylene Chloride	6.856	49	1736934	161.10	ug/L	94
17) Tert Butyl Alcohol	6.867	59	1129399	2826.82	ug/L	78
18) Allyl Chloride	6.673	41	2008422	207.96	ug/L	98
19) Acetonitrile	6.759	41	341596	414.80	ug/L	98
20) trans-1,2-Dichloroethene	7.126	61	2100220	205.05	ug/L	98
21) Acrylonitrile	7.201	53	1938246	1029.49	ug/L	98
22) Methyl Tert Butyl Ether	7.061	73	4165203	263.43	ug/L	95
23) Hexane	7.298	57	1659448	243.95	ug/L	97
24) 1,1-Dichloroethane	7.665	63	2579629	179.09	ug/L	99
25) Vinyl Acetate	7.601	43	10719221	1054.80	ug/L	98
26) Di-isopropyl ether	7.536	45	4077616	233.08	ug/L	96
27) Chloroprene	7.719	53	5131995	207.45	ug/L	99
28) Ethyl tert-butyl ether	7.946	59	4312701	245.25	ug/L	98
29) 2,2-Dichloropropane	8.291	77	2339575	190.90	ug/L	100
30) cis-1,2-Dichloroethene	8.313	96	1585239	201.96	ug/L	90
31) Ethyl Acetate	8.237	43	5214141m	1167.91	ug/L	
32) 2-Butanone	8.280	43	2516381m	945.76	ug/L	
33) Propionitrile	8.453	54	927304	1177.01	ug/L	98
34) Methacrylonitrile	8.831	41	1195800	207.71	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 09:19:13 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Bromochloromethane	8.593	128	962372	191.90	ug/L	91
36) Chloroform	8.615	83	2908519	182.08	ug/kg	97
37) Tetrahydrofuran	8.831	42	461289	203.06	ug/L	89
38) 1,1,1-Trichloroethane	8.820	97	2757291	196.18	ug/L	97
40) Cyclohexane	8.831	56	2200435	237.55	ug/L	95
41) n-Butyl Alcohol	9.651	56	283049	3908.51	ug/L	87
42) 1,1-Dichloropropene	8.971	75	2081548	235.12	ug/L	98
43) Carbon Tetrachloride	8.971	117	2677007	198.53	ug/L	99
45) Benzene	9.208	78	5285354	180.86	ug/L	98
46) Isobutyl Alcohol	9.197	43	1239115	2247.41	ug/L	91
47) 1,2-Dichloroethane	9.284	62	2233261	188.60	ug/L	99
48) tert-amyl methyl ether	9.197	73	4113343	248.39	ug/L	92
49) Trichloroethene	9.856	95	1711456	227.83	ug/L	97
50) Methylcyclohexane	10.007	83	2608240	264.92	ug/L	97
51) Methyl Methacrylate	10.104	41	1251509	213.96	ug/L	91
52) 1,2-Dichloropropane	10.158	63	1509171	199.66	ug/L	98
53) Dibromomethane	10.309	93	1127045	201.55	ug/kg	95
54) 1,4-Dioxane	10.222	88	300620	6170.29	ug/L	94
55) Bromodichloromethane	10.406	83	2398595	206.03	ug/L	99
56) 2-Nitropropane	10.697	41	2019418	1099.28	ug/L	96
57) 2-Chloroethyl vinyl ether	10.632	63	4259427	1166.30	ug/L	97
58) 4-Methyl-2-pentanone	10.935	43	5946440	1093.82	ug/L	97
59) cis-1,3-Dichloropropene	10.859	75	2772588	246.02	ug/L	99
62) Toluene	11.172	91	6595468	223.36	ug/L	100
63) Ethyl Methacrylate	11.355	69	2158054	320.27	ug/L	97
64) trans-1,3-Dichloropropene	11.431	75	2481522	245.10	ug/L	97
65) 1,1,2-Trichloroethane	11.636	83	1329361	200.96	ug/L	97
66) Tetrachloroethene	11.733	166	2170647	232.51	ug/L	98
67) 2-hexanone	11.787	43	4696864	1290.09	ug/L	97
68) 1,3-Dichloropropane	11.841	76	2603450	203.60	ug/L	96
69) Dibromochloromethane	12.067	129	2207837	232.05	ug/L	99
70) 1,2-Dibromoethane	12.251	107	1786547	238.83	ug/L	98
71) 1-Chlorohexane	12.531	91	2412651	291.74	ug/L	91
72) Chlorobenzene	12.693	112	5051007	192.52	ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.758	131	2121402	208.16	ug/L	99
74) Ethylbenzene	12.715	91	8031801	210.26	ug/L	98
75) m,p-Xylene	12.834	91	12224172	428.46	ug/L	99
76) o-Xylene	13.276	91	6544669	244.02	ug/L	100
77) Styrene	13.298	104	5360362	250.62	ug/L	99
78) Bromoform	13.600	173	1716292	261.53	ug/L	98
80) Isopropylbenzene	13.621	105	7631218	263.08	ug/L	100
81) Cyclohexanone	13.880	55	249950	3588.44	ug/L #	79
83) Bromobenzene	14.085	156	2661088	220.55	ug/L	100
84) 1,1,2,2-Tetrachloroethane	13.999	83	2335574	204.54	ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.064	53	660290	234.58	ug/L	93
86) 1,2,3-Trichloropropane	14.096	110	693185	203.08	ug/L	94
87) n-Propylbenzene	14.053	91	10231539	242.75	ug/L	96
88) 2-Chlorotoluene	14.236	91	6969879	212.08	ug/L	99
89) 4-Chlorotoluene	14.355	91	6632025	235.92	ug/L	94
90) 1,3,5-Trimethylbenzene	14.215	105	7307739	248.52	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 09:19:13 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration

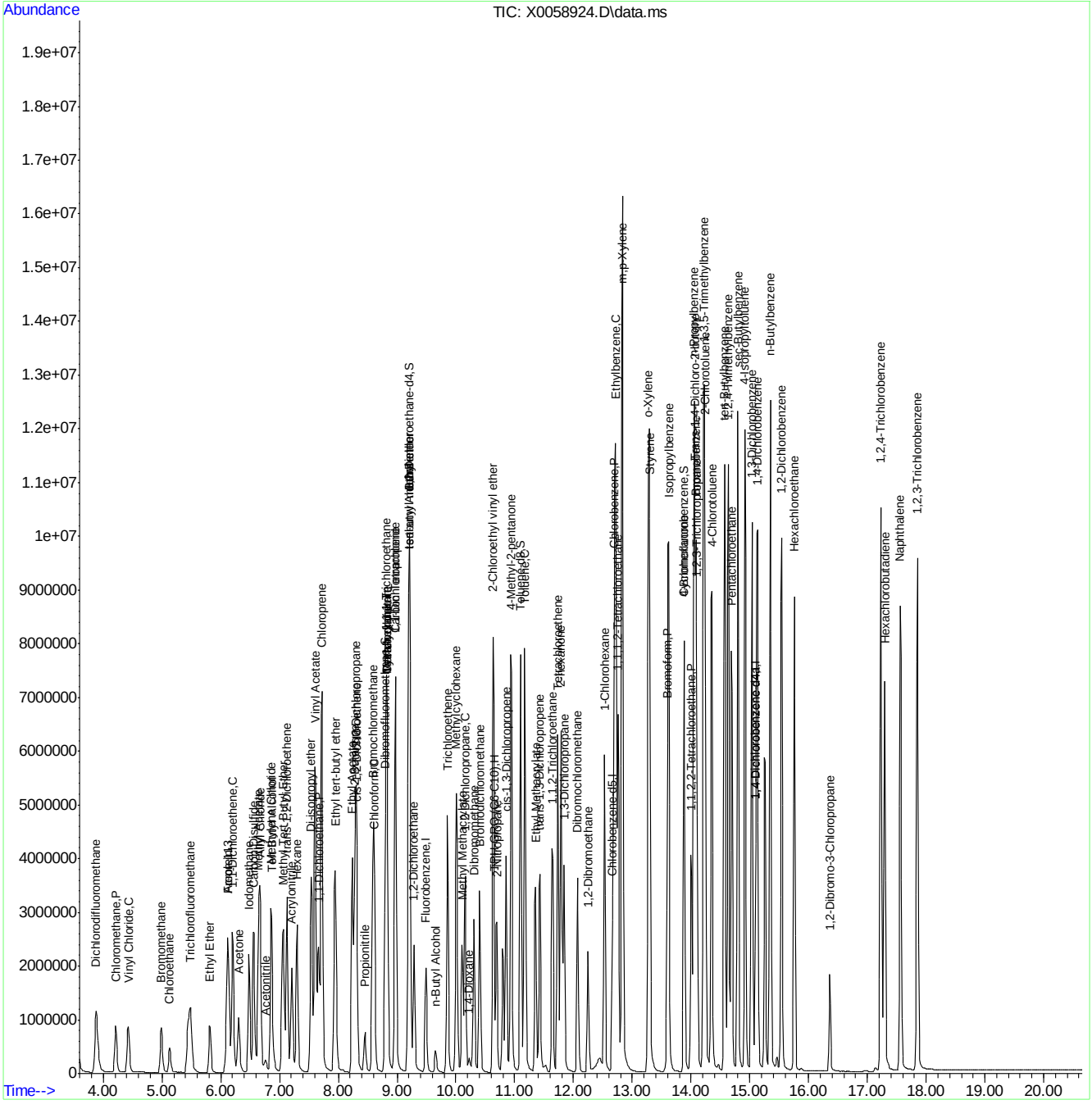
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Pentachloroethane	14.689	167	1921563	221.93 ug/L	100
92) sec-Butylbenzene	14.797	105	9848040	248.00 ug/L	97
93) 1,3-Dichlorobenzene	15.035	146	5011209	224.96 ug/L	99
94) 4-Isopropyltoluene	14.916	119	8221862	261.61 ug/L	97
95) 1,4-Dichlorobenzene	15.132	146	5304752	200.82 ug/L	98
96) tert-Butylbenzene	14.571	91	4283093	250.73 ug/L	96
97) n-Butylbenzene	15.348	91	7905768	239.85 ug/L	97
98) 1,2-Dichlorobenzene	15.542	146	5085657	219.53 ug/L	99
99) 1,2,4-Trimethylbenzene	14.635	105	7587955	245.36 ug/L	99
100) Hexachloroethane	15.758	119	1985982	225.56 ug/L	96
101) 1,2-Dibromo-3-Chloropr...	16.362	75	502231	236.12 ug/L	82
102) 1,2,4-Trichlorobenzene	17.225	180	4422140	266.72 ug/L	99
103) Hexachlorobutadiene	17.300	225	1947106	248.33 ug/L	96
104) Naphthalene	17.559	128	9273632	284.95 ug/L	100
105) 1,2,3-Trichlorobenzene	17.851	180	4182249	249.87 ug/L	99
107) TPH-GRO (C6-C10)	10.655	TIC	651827813m	13051.97 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

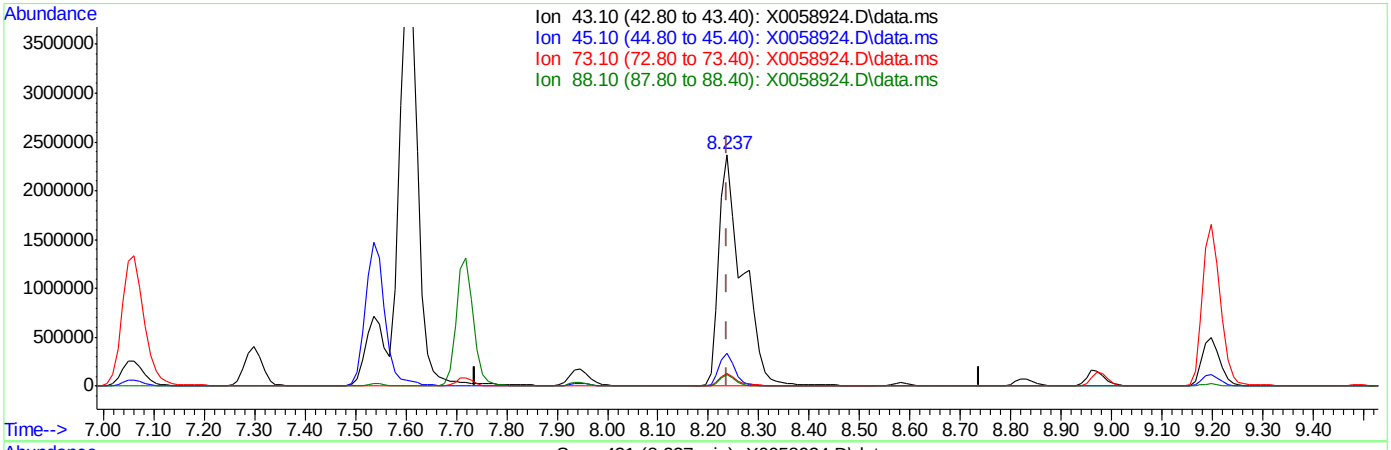
Quant Time: Feb 09 09:19:13 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration

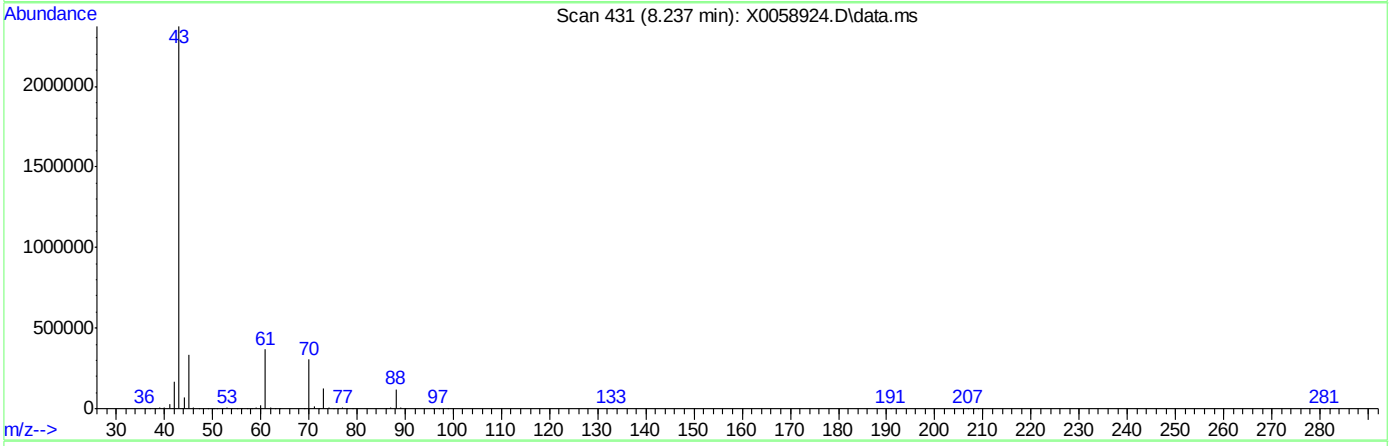


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 09:18:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (-0.000) 1731.27ug/L

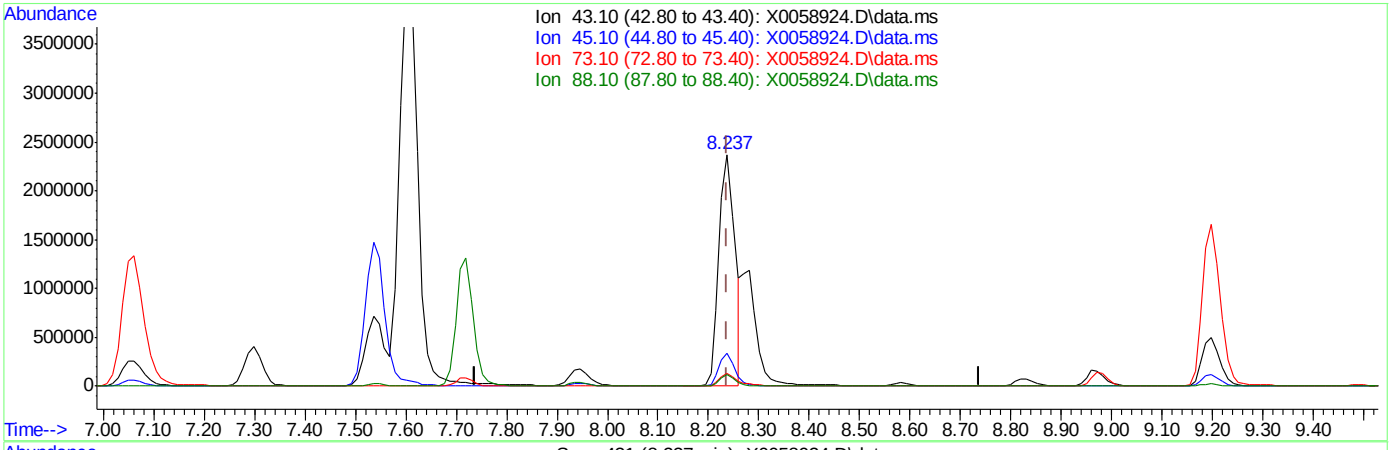
response 7729302

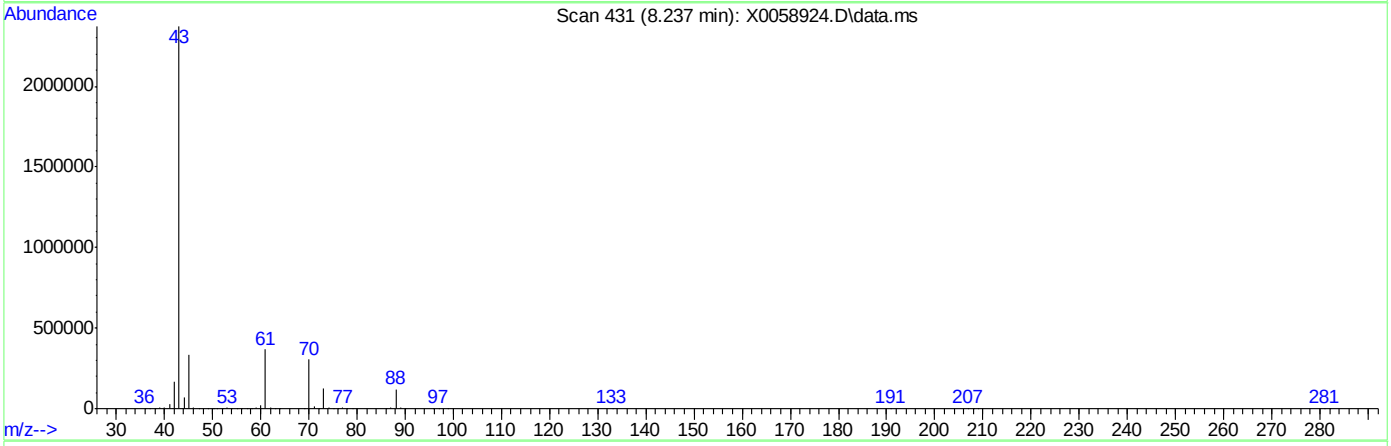
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.15
73.10	5.10	5.42
88.10	4.30	5.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On : 8 Feb 2010 2:55 pm
Operator : jennl
Sample : ic439-200
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 09:18:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (-0.000) 1167.91ug/L m

response 5214141

Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.16
73.10	5.10	5.42
88.10	4.30	5.01

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On    :  8 Feb 2010   2:55 pm
Operator  : jennl
Sample    : ic439-200
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Feb 09 09:18:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration
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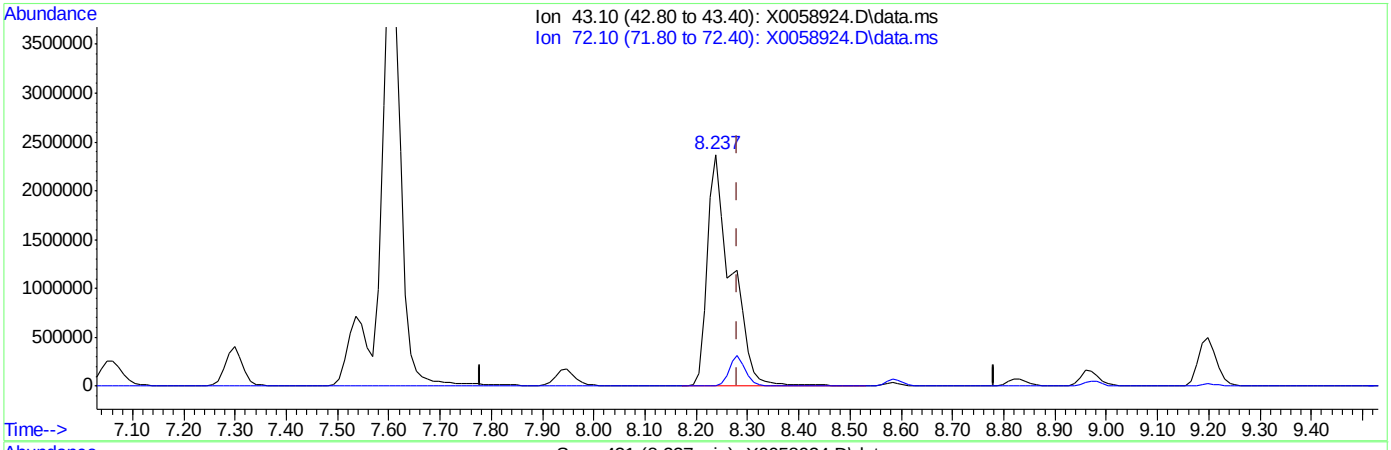

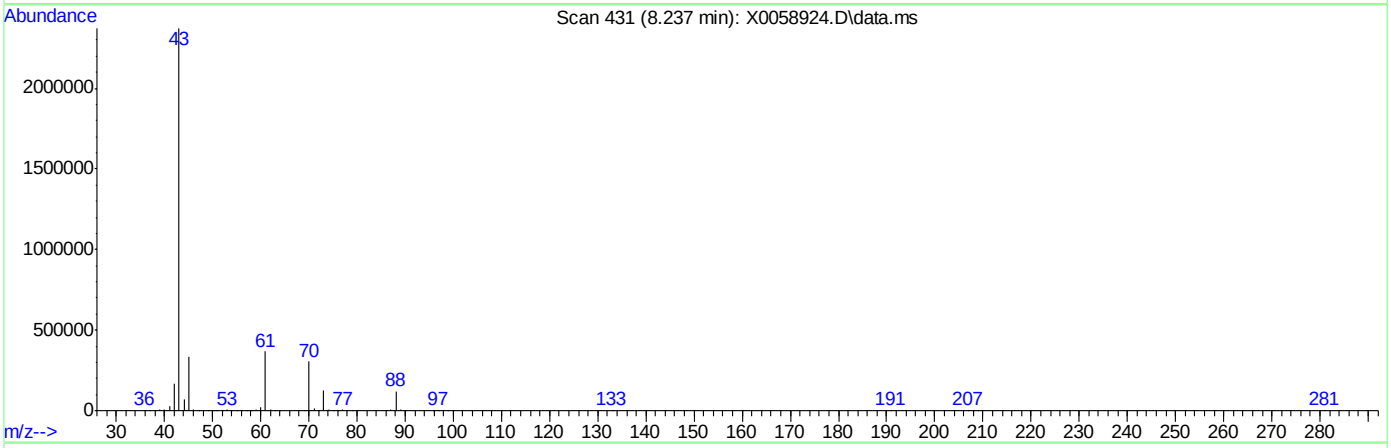

TIC: X0058924.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 2905.63ug/L

response 7730968

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058924.D
Acq On    :  8 Feb 2010   2:55 pm
Operator  : jennl
Sample    : ic439-200
Misc      : ms7507,vx439,5.,,,5,,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Feb 09 09:18:38 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title  : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:18:27 2010
Response via : Initial Calibration
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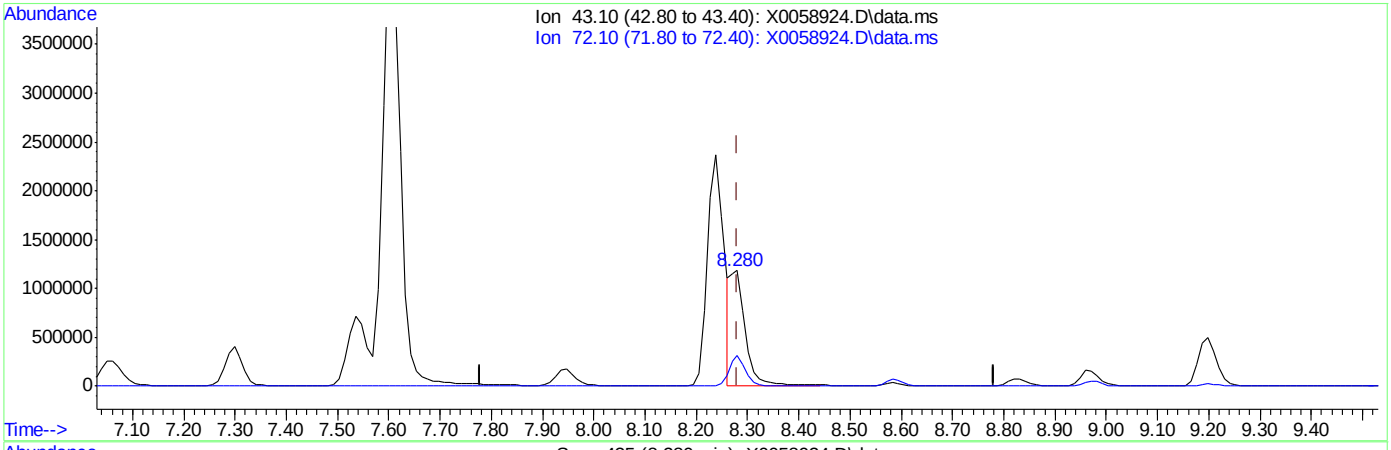
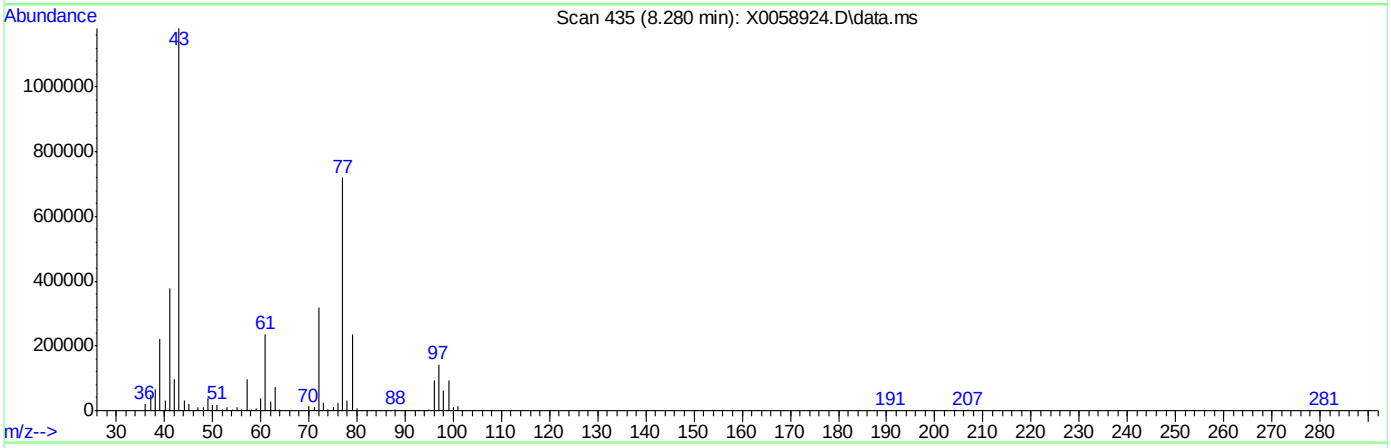




(32) 2-Butanone

8.280min (-0.000) 945.76ug/L m

response 2516381

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	26.94
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST Laboratories T46705

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:29:07 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	9.489	96	1943339	50.00	ug/L	0.00
60) Chlorobenzene-d5	12.661	117	1676041	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	15.099	152	1063809	50.00	ug/L	0.00
106) 1,4-Dichlorobenzene-d4a	15.099	152	1063809	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.798	113	462734	49.04	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.08%			
44) 1,2-Dichloroethane-d4	9.208	65	482396	45.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 91.90%			
61) Toluene-d8	11.096	98	1535591	56.21	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 112.42%			
82) 4-Bromofluorobenzene	13.880	95	650912	50.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 100.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.878	85	505797	36.56	ug/L	97
3) Chloromethane	4.191	50	234233	32.04	ug/L	99
4) Vinyl Chloride	4.407	62	255489	37.56	ug/L	97
5) Bromomethane	4.989	94	192753	35.87	ug/L	98
6) Chloroethane	5.130	64	136042	38.59	ug/L	100
7) Trichlorofluoromethane	5.475	101	531250	34.58	ug/L	100
8) Ethyl Ether	5.820	59	169186	49.12	ug/L	99
9) Acrolein	6.133	56	222121	1022.38	ug/L	97
10) 1,1-Dichloroethene	6.209	61	469972	45.34	ug/L	96
11) Freon 113	6.122	101	386845	44.75	ug/L	99
12) Acetone	6.306	43	368716	211.67	ug/L	99
13) Iodomethane	6.478	142	650559	47.61	ug/L	97
14) Methyl Acetate	6.640	43	917540	213.54	ug/L	99
15) Carbon Disulfide	6.565	76	1077313	44.28	ug/L	98
16) Methylene Chloride	6.856	49	404710	39.86	ug/L	97
17) Tert Butyl Alcohol	6.867	59	216917	434.60	ug/L	96
18) Allyl Chloride	6.673	41	419004	44.28	ug/L	99
19) Acetonitrile	6.759	41	308610	464.92	ug/L	96
20) trans-1,2-Dichloroethene	7.126	61	459055	45.85	ug/L	100
21) Acrylonitrile	7.212	53	491564	266.93	ug/L	99
22) Methyl Tert Butyl Ether	7.061	73	840736	44.87	ug/L	97
23) Hexane	7.298	57	381787	47.86	ug/L	97
24) 1,1-Dichloroethane	7.665	63	570599	41.42	ug/L	99
25) Vinyl Acetate	7.601	43	2751480	253.44	ug/L	99
26) Di-isopropyl ether	7.536	45	875316	44.23	ug/L	97
27) Chloroprene	7.719	53	451756	16.01	ug/L	98
28) Ethyl tert-butyl ether	7.946	59	858538	42.31	ug/L	98
29) 2,2-Dichloropropane	8.291	77	514044	43.42	ug/L	100
30) cis-1,2-Dichloroethene	8.313	96	371670	48.57	ug/L	93
31) Ethyl Acetate	8.237	43	1131973m	229.89	ug/L	
32) 2-Butanone	8.280	43	586730m	228.62	ug/L	
33) Propionitrile	8.453	54	383161	485.34	ug/L	98
34) Methacrylonitrile	8.831	41	285932	47.15	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:29:07 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Bromochloromethane	8.593	128	205598	42.41 ug/L #	86
36) Chloroform	8.615	83	633352	41.35 ug/kg	97
37) Tetrahydrofuran	8.831	42	110292	46.18 ug/L	92
38) 1,1,1-Trichloroethane	8.820	97	586905	43.04 ug/L	99
40) Cyclohexane	8.831	56	513866	47.47 ug/L	96
41) n-Butyl Alcohol	9.651	56	106668	1120.19 ug/L	92
42) 1,1-Dichloropropene	8.971	75	462274	45.66 ug/L	94
43) Carbon Tetrachloride	8.971	117	569138	43.42 ug/L	99
45) Benzene	9.208	78	1279565	45.71 ug/L	99
46) Isobutyl Alcohol	9.197	43	256781	468.81 ug/L	96
47) 1,2-Dichloroethane	9.294	62	471279	41.28 ug/L	99
48) tert-amyl methyl ether	9.197	73	849446	43.46 ug/L	96
49) Trichloroethene	9.856	95	360085	48.13 ug/L	97
50) Methylcyclohexane	10.007	83	554559	45.16 ug/L	98
51) Methyl Methacrylate	10.104	41	239231	44.93 ug/L	95
52) 1,2-Dichloropropane	10.158	63	331582	45.08 ug/L	97
53) Dibromomethane	10.309	93	239309	43.91 ug/kg	99
54) 1,4-Dioxane	10.233	88	57674	874.13 ug/L	96
55) Bromodichloromethane	10.406	83	480697	42.21 ug/L	99
56) 2-Nitropropane	10.686	41	392634	216.01 ug/L	99
57) 2-Chloroethyl vinyl ether	10.632	63	969898	226.93 ug/L	99
58) 4-Methyl-2-pentanone	10.935	43	1264553	217.02 ug/L	99
59) cis-1,3-Dichloropropene	10.859	75	558817	42.76 ug/L	98
62) Toluene	11.172	91	1415091	44.49 ug/L	99
63) Ethyl Methacrylate	11.355	69	381829	41.50 ug/L	99
64) trans-1,3-Dichloropropene	11.431	75	520796	45.25 ug/L	98
65) 1,1,2-Trichloroethane	11.647	83	270740	42.57 ug/L	96
66) Tetrachloroethene	11.733	166	448795	48.73 ug/L	98
67) 2-hexanone	11.787	43	888218	207.46 ug/L	99
68) 1,3-Dichloropropane	11.841	76	548834	44.55 ug/L	97
69) Dibromochloromethane	12.067	129	418108	44.56 ug/L	99
70) 1,2-Dibromoethane	12.251	107	348458	46.98 ug/L	98
71) 1-Chlorohexane	12.531	91	480002	44.06 ug/L	95
72) Chlorobenzene	12.693	112	1078698	43.07 ug/L	99
73) 1,1,1,2-Tetrachloroethane	12.758	131	421417	42.76 ug/L	99
74) Ethylbenzene	12.715	91	1689906	45.67 ug/L	99
75) m,p-Xylene	12.834	91	2673236	87.74 ug/L	99
76) o-Xylene	13.276	91	1371596	43.63 ug/L	99
77) Styrene	13.297	104	1065922	41.74 ug/L	100
78) Bromoform	13.600	173	297964	47.27 ug/L	99
80) Isopropylbenzene	13.621	105	1741989	49.88 ug/L	99
81) Cyclohexanone	13.880	55	179874	1592.81 ug/L #	42
83) Bromobenzene	14.085	156	517784	44.95 ug/L	100
84) 1,1,2,2-Tetrachloroethane	13.999	83	466166	43.33 ug/L	100
85) Trans-1,4-Dichloro-2-b...	14.064	53	123489	40.80 ug/L	95
86) 1,2,3-Trichloropropane	14.096	110	124274	38.69 ug/L	99
87) n-Propylbenzene	14.053	91	2100992	43.69 ug/L	99
88) 2-Chlorotoluene	14.236	91	1441525	42.85 ug/L	99
89) 4-Chlorotoluene	14.355	91	1282337	41.79 ug/L	94
90) 1,3,5-Trimethylbenzene	14.215	105	1453730	42.79 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:29:07 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

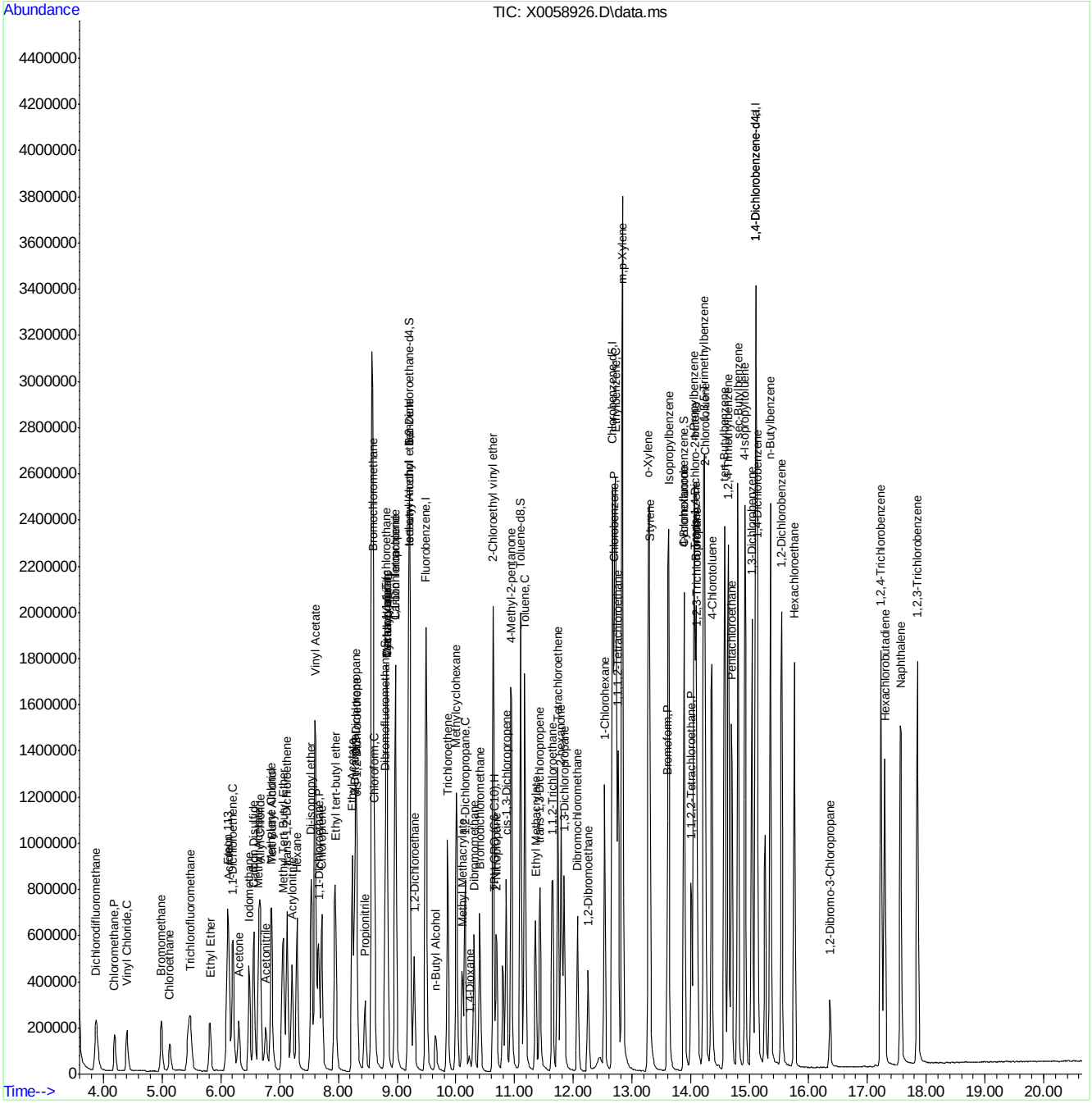
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Pentachloroethane	14.689	167	336936	40.71 ug/L	99
92) sec-Butylbenzene	14.797	105	1951094	42.89 ug/L	100
93) 1,3-Dichlorobenzene	15.035	146	962182	45.08 ug/L	99
94) 4-Isopropyltoluene	14.916	119	1590075	42.60 ug/L	99
95) 1,4-Dichlorobenzene	15.132	146	1033919	41.67 ug/L	99
96) tert-Butylbenzene	14.571	91	835246	42.33 ug/L	98
97) n-Butylbenzene	15.348	91	1546303	41.93 ug/L	99
98) 1,2-Dichlorobenzene	15.542	146	973375	44.05 ug/L	98
99) 1,2,4-Trimethylbenzene	14.635	105	1501120	42.39 ug/L	100
100) Hexachloroethane	15.758	119	388799	46.06 ug/L	99
101) 1,2-Dibromo-3-Chloropr...	16.362	75	90764	44.13 ug/L	93
102) 1,2,4-Trichlorobenzene	17.225	180	776462	41.13 ug/L	98
103) Hexachlorobutadiene	17.300	225	344671	45.02 ug/L	99
104) Naphthalene	17.570	128	1650287	42.26 ug/L	99
105) 1,2,3-Trichlorobenzene	17.851	180	753841	41.45 ug/L	98
107) TPH-GRO (C6-C10)	10.655	TIC	140266033m	2847.26 ug/kg	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

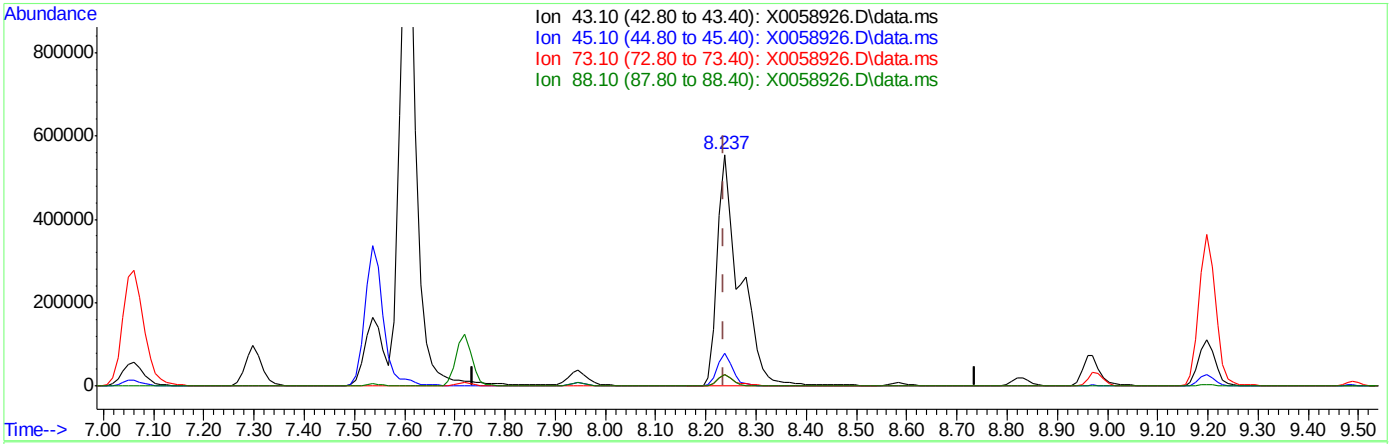
Quant Time: Feb 09 09:29:07 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration

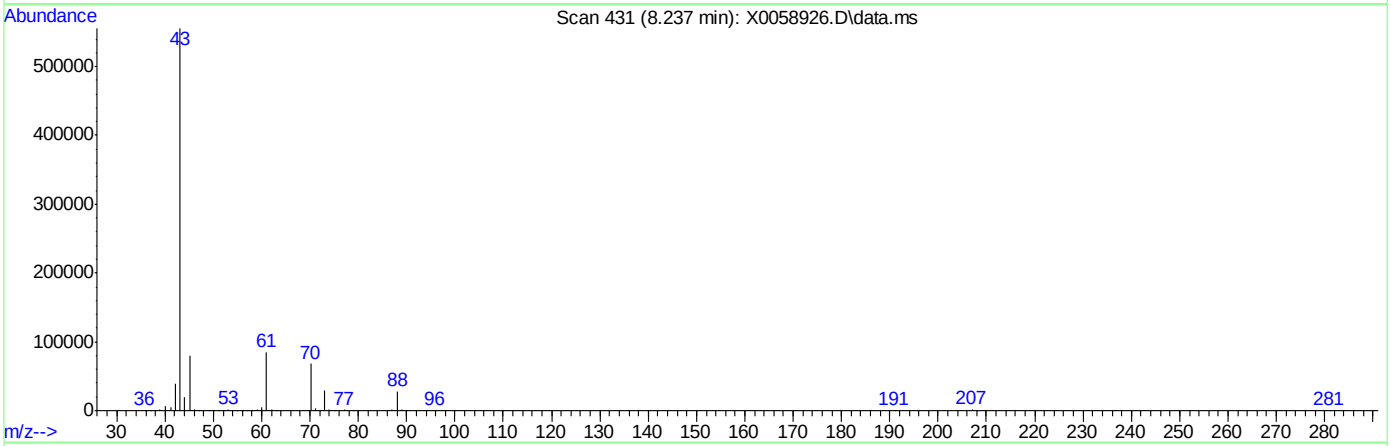


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:28:45 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (+0.000) 345.28ug/L

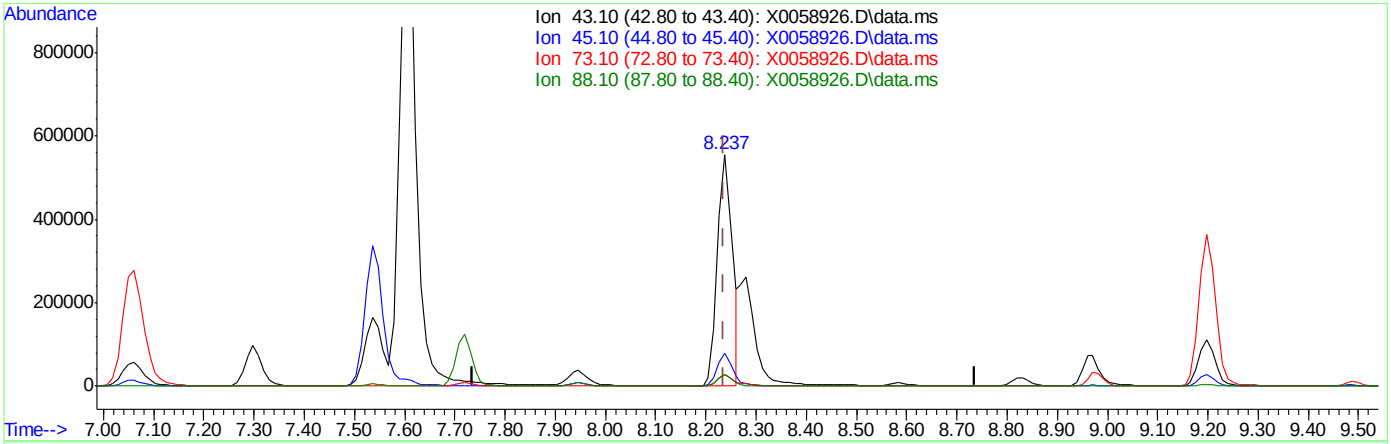
response 1718954

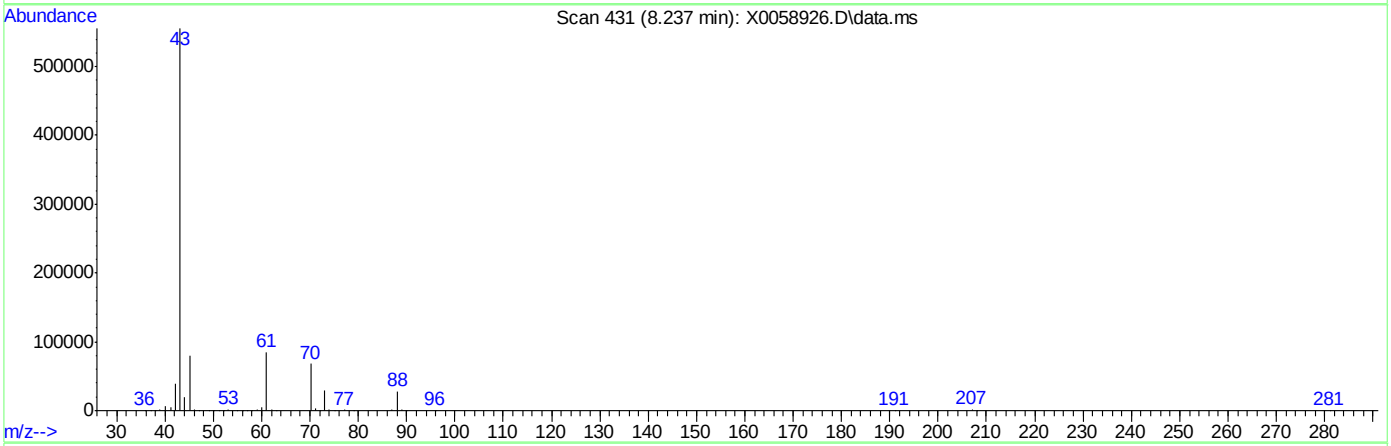
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.27
73.10	5.10	5.18
88.10	4.30	5.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:28:45 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





(31) Ethyl Acetate

8.237min (+0.000) 229.89ug/L m

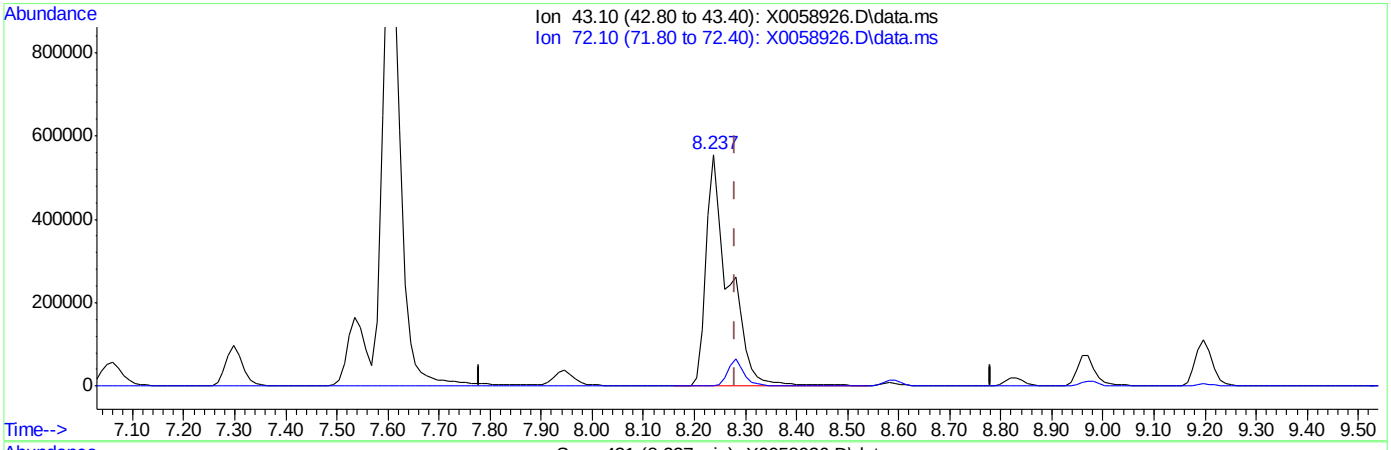
response 1131973

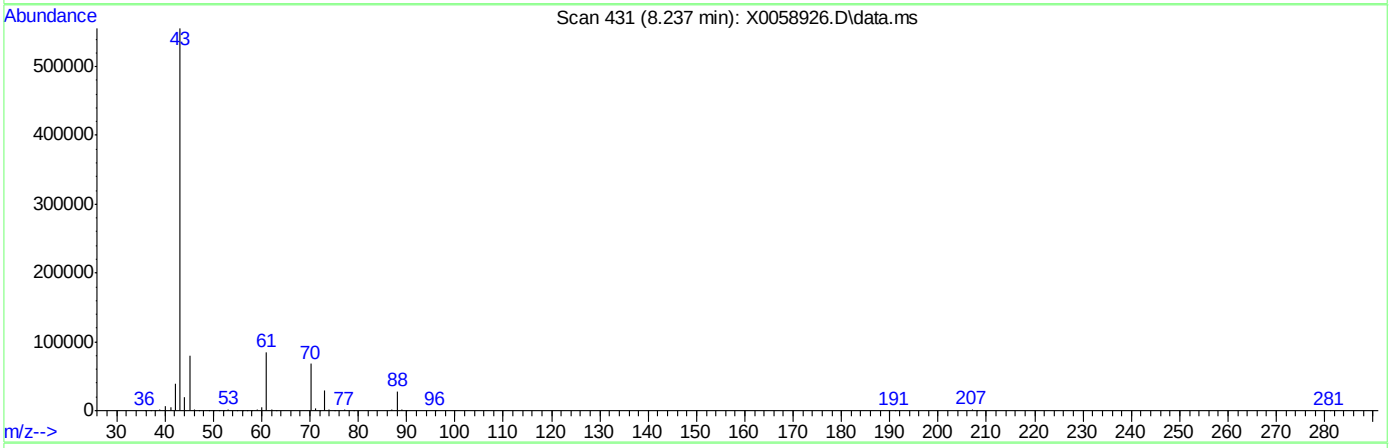
Ion	Exp%	Act%
43.10	100	100
45.10	14.40	14.24
73.10	5.10	5.17
88.10	4.30	4.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:28:45 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058926.D\data.ms

(32) 2-Butanone

8.237min (-0.043) 669.80ug/L

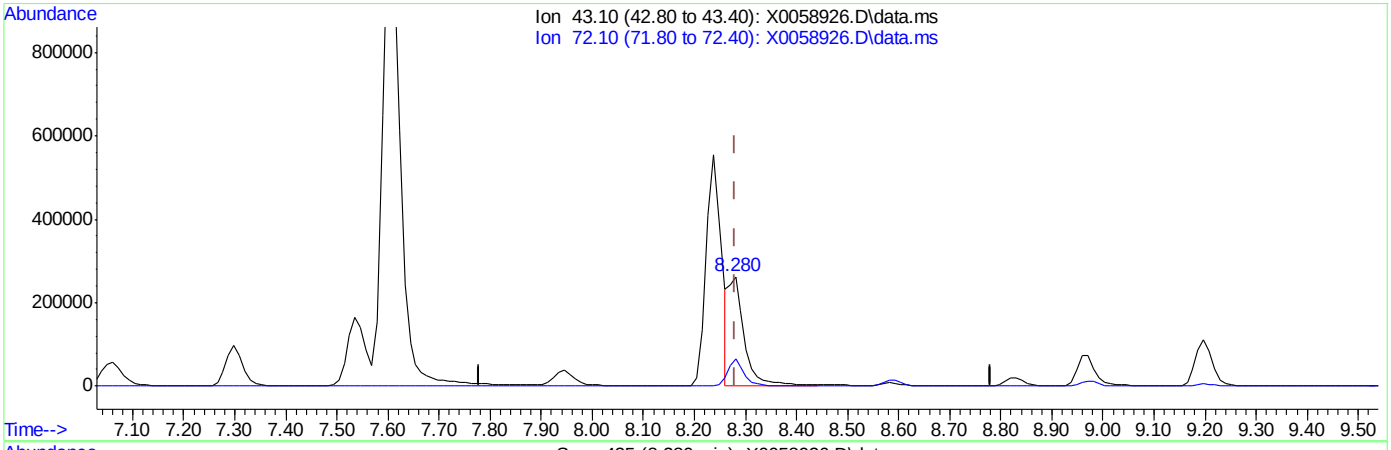
response 1718954

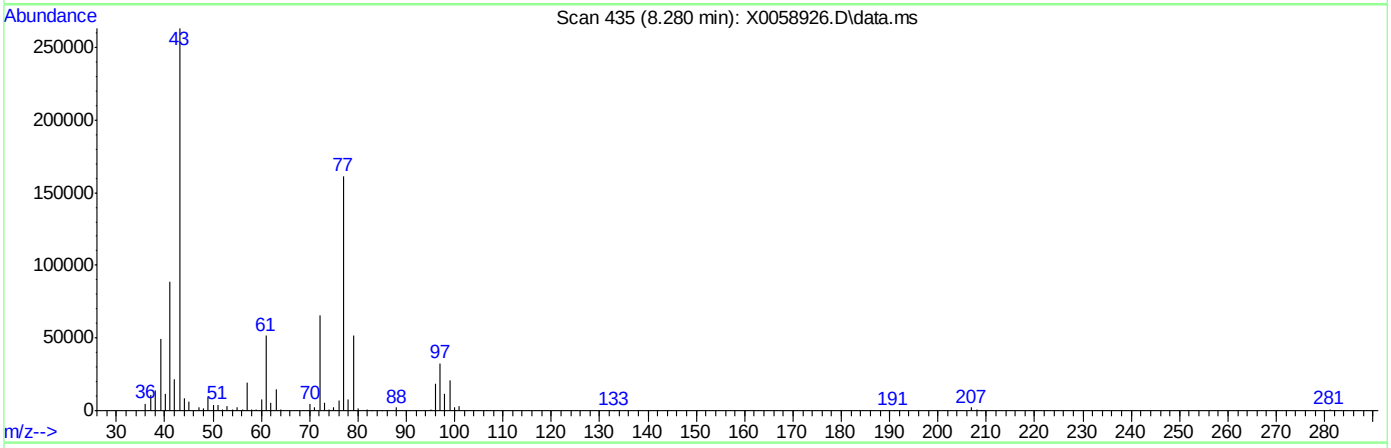
Ion	Exp%	Act%
43.10	100	100
72.10	24.60	0.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\5975\VX439\
Data File : X0058926.D
Acq On : 8 Feb 2010 3:53 pm
Operator : jennl
Sample : icv439-40
Misc : ms7507,vx439,5.,,,5,,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 09:28:45 2010
Quant Method : C:\msdchem\1\METHODS\vx439ap9w.m
Quant Title : SW846 8260B and EPA624
QLast Update : Tue Feb 09 09:19:30 2010
Response via : Initial Calibration





TIC: X0058926.D\data.ms

(32) 2-Butanone

8.280min (+0.000) 228.62ug/L m

response 586730

Ion	Exp%	Act%
43.10	100	100
72.10	24.60	24.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:33 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	741723	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	514602	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	233951	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	233951	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	13538	3.97	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 7.94%#			
46) 1,2-Dichloroethane-d4	9.94	65	16828	4.13	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 8.26%#			
63) Toluene-d8	11.84	98	48071	4.04	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 8.08%#			
84) 4-Bromofluorobenzene	14.58	95	19276	4.32	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 8.64%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	3910	3.53	ug/kg#	44
3) Chloromethane	4.58	50	7497	4.19	ug/kg	99
4) Vinyl Chloride	4.81	62	5908	4.24	ug/kg	88
5) Bromomethane	5.48	94	5506	4.64	ug/kg	97
6) Chloroethane	5.65	64	4005	4.31	ug/kg	98
7) Trichlorofluoromethane	6.01	101	8869	3.92	ug/kg	92
9) Ethyl ether	6.43	59	12886	4.37	ug/kg	94
10) Acrolein	6.75	56	2013	22.16	ug/kg	97
11) 1,1-Dichloroethene	6.84	96	6730	4.70	ug/kg	92
12) Freon 113	6.75	101	5125	4.34	ug/kg	86
13) Acetone	6.94	43	21594	30.49	ug/kg	99
14) Iodomethane	7.12	142	12692	4.26	ug/kg#	96
15) Methyl acetate	7.32	43	50149	22.96	ug/kg	98
16) Carbon Disulfide	7.20	76	23659	4.60	ug/kg	94
17) Allyl Chloride	7.34	41	21202	4.38	ug/kg	95
18) Acetonitrile	7.42	41	2843	15.27	ug/kg#	46
19) Methylene Chloride	7.53	84	13756	5.61	ug/kg	95
20) Tert Butyl Alcohol	7.55	59	10996	43.43	ug/kg	95
21) trans-1,2-Dichloroethene	7.82	96	12810	4.29	ug/kg	91
22) Acrylonitrile	7.89	53	18857	22.99	ug/kg	97
23) Hexane	8.02	57	19939	4.55	ug/kg	94
24) Methyl Tert Butyl Ether	7.74	73	34068	4.31	ug/kg	97
25) 1,1-Dichloroethane	8.37	63	26273	4.25	ug/kg	98
26) Vinyl acetate	8.33	43	144496	20.80	ug/kg	98
27) Di-isopropyl ether	8.26	45	48076	4.06	ug/kg	98
28) Chloroprene	8.43	53	50675	4.43	ug/kg	98
29) Ethyl tert-butyl ether	8.67	59	40515	4.12	ug/kg	98
30) Ethyl Acetate	8.97	43	68490m	21.64	ug/kg	
31) 2,2-Dichloropropane	9.02	77	14376	4.84	ug/kg	91
32) cis-1,2-Dichloroethene	9.04	96	14542	4.35	ug/kg	94
33) 2-Butanone	9.01	72	6996	22.33	ug/kg#	57
34) Propionitrile	9.17	54	7100	23.79	ug/kg	80
35) Bromochloromethane	9.32	128	6788	3.84	ug/kg	96
36) Methacrylonitrile	9.31	41	7917	6.88	ug/kg	97

(#) = qualifier out of range (m) = manual integration
Y0037566.D VY2406AP9.M Fri Feb 05 10:29:36 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:33 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Chloroform	9.34	83	26717	4.49	ug/kg	92
38) Tetrahydrofuran	9.57	42	4315	4.60	ug/kg	99
39) 1,1,1-Trichloroethane	9.56	97	19042	4.66	ug/kg	88
41) Cyclohexane	9.57	56	18265	4.50	ug/kg	93
42) Isobutyl Alcohol	9.70	43	4869	44.62	ug/kg	80
43) 1,1-Dichloropropene	9.72	75	18234	4.40	ug/kg	98
44) n-Butyl Alcohol	10.39	56	2452	39.84	ug/kg	83
45) Carbon Tetrachloride	9.71	117	17326	4.49	ug/kg	98
47) Benzene	9.95	78	55731	4.19	ug/kg	94
48) 1,2-Dichloroethane	10.03	62	19999	4.29	ug/kg	97
49) tert-amyl methyl ether	9.94	73	35379	4.01	ug/kg	99
50) Trichloroethene	10.60	95	14388	4.61	ug/kg	93
51) 1-Bromo-2-Chloroethane	11.53	63	18578	4.27	ug/kg	89
52) Methylcyclohexane	10.76	83	19359	4.57	ug/kg	95
53) Methyl Methacrylate	10.85	41	12785	4.33	ug/kg	96
54) 1,2-Dichloropropane	10.90	63	14679	4.21	ug/kg	91
55) Dibromomethane	11.04	93	8710	4.24	ug/kg	95
56) 1,4-Dioxane	10.96	88	735	43.06	ug/kg#	30
57) Bromodichloromethane	11.14	83	20125	4.28	ug/kg	97
58) 2-Nitropropane	11.42	41	19047	22.98	ug/kg	96
59) 2-Chloroethyl vinyl ether	11.37	63	12464	18.71	ug/kg	95
60) 4-Methyl-2-pentanone	11.68	100	7640	18.93	ug/kg#	90
61) cis-1,3-Dichloropropene	11.59	75	23094	4.14	ug/kg	96
64) Toluene	11.91	92	34553	4.23	ug/kg	96
65) Ethyl Methacrylate	12.09	69	16397	3.86	ug/kg	99
66) trans-1,3-Dichloropropene	12.15	75	19594	4.04	ug/kg	95
67) 1,1,2-Trichloroethane	12.37	83	10127	4.20	ug/kg	90
68) Tetrachloroethene	12.46	164	11110	4.51	ug/kg	99
69) 2-hexanone	12.52	43	39020	18.67	ug/kg	99
70) 1,3-Dichloropropane	12.56	76	21246	4.28	ug/kg	96
71) Dibromochloromethane	12.79	129	15078	4.26	ug/kg	93
72) 1,2-Dibromoethane	12.97	107	12249	4.36	ug/kg	96
73) 1-Chlorohexane	13.25	91	17268	4.31	ug/kg	93
74) Chlorobenzene	13.41	112	39030	4.30	ug/kg	95
75) 1,1,1,2-Tetrachloroethane	13.47	131	13396	4.25	ug/kg	95
76) Ethylbenzene	13.44	91	63928	4.26	ug/kg	98
77) m,p-Xylene	13.55	106	47969	8.26	ug/kg	96
78) o-Xylene	13.98	106	23383	4.27	ug/kg	95
79) Styrene	14.01	104	41028	4.11	ug/kg	95
80) Bromoform	14.30	173	9433	4.45	ug/kg	97
82) Isopropylbenzene	14.33	105	49302	4.25	ug/kg	100
83) Cyclohexanone	14.58	55	1068	16.10	ug/kg#	86
85) Bromobenzene	14.78	156	15631	4.01	ug/kg	95
86) 1,1,2,2-Tetrachloroethane	14.69	83	14691	4.37	ug/kg	94
87) Trans-1,4-Dichloro-2-Buten	14.75	53	4888	3.93	ug/kg#	50
88) 1,2,3-Trichloropropane	14.79	75	13228m	4.12	ug/kg	
89) n-Propylbenzene	14.75	91	68333	4.19	ug/kg	96
90) 2-Chlorotoluene	14.94	91	46205	4.07	ug/kg	99
91) 4-Chlorotoluene	15.05	91	43509	4.32	ug/kg	97

(#) = qualifier out of range (m) = manual integration

ACCUTEST Laboratories T46705

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:33 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

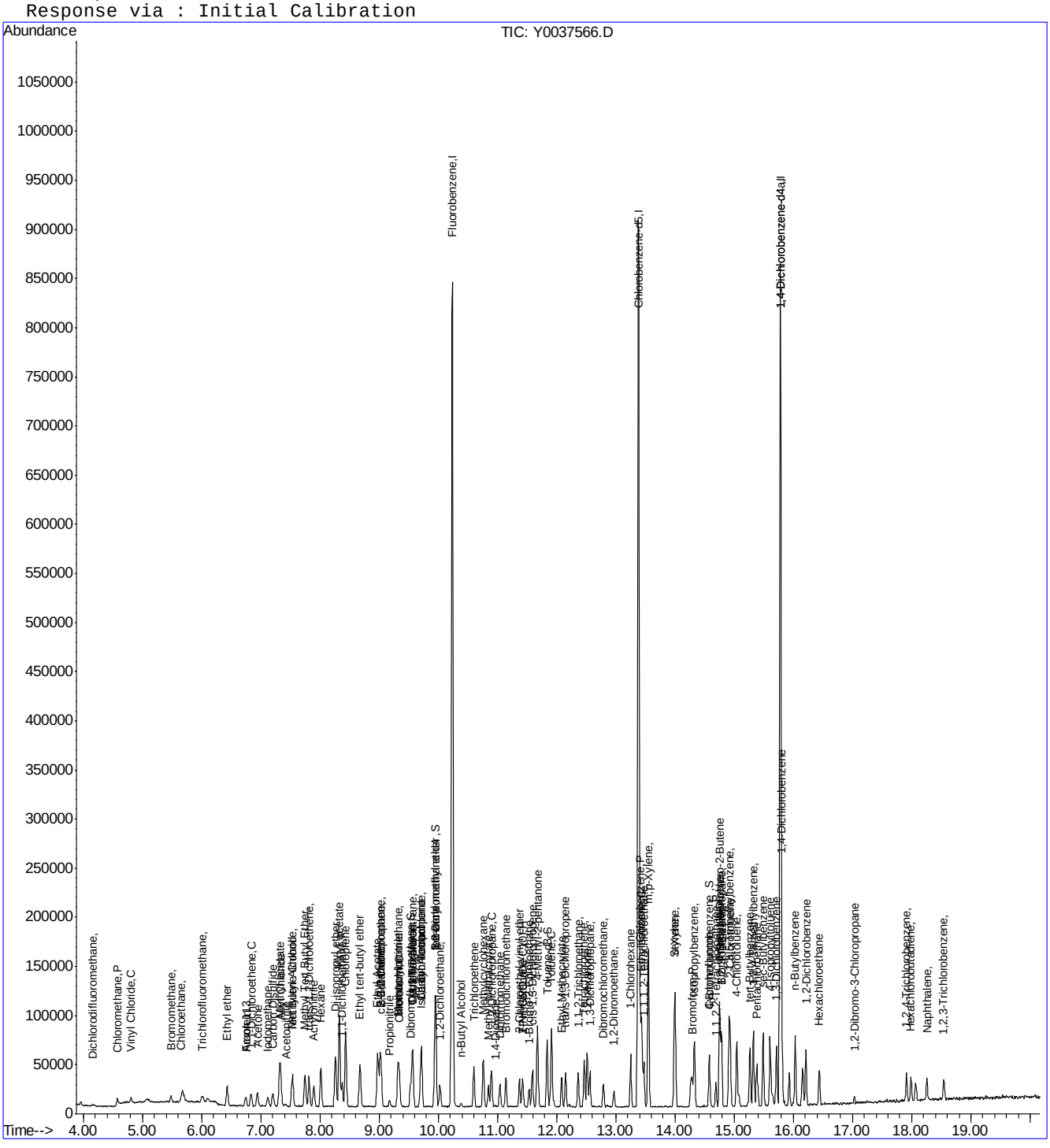
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	44949	4.19	ug/kg	99
93)	Pentachloroethane	15.38	167	8322	4.17	ug/kg	96
94)	sec-Butylbenzene	15.49	105	52868	4.33	ug/kg	98
95)	1,3-Dichlorobenzene	15.72	146	26915	4.28	ug/kg	96
96)	4-Isopropyltoluene	15.61	119	42982	4.30	ug/kg	97
97)	1,4-Dichlorobenzene	15.81	146	28935	4.52	ug/kg	92
98)	tert-Butylbenzene	15.27	91	23135	4.28	ug/kg	93
99)	n-Butylbenzene	16.03	91	41314	4.27	ug/kg	98
100)	1,2-Dichlorobenzene	16.21	146	24085	4.25	ug/kg	96
101)	1,2,4-Trimethylbenzene	15.32	105	45027	4.09	ug/kg	97
102)	Hexachloroethane	16.43	119	7946	4.56	ug/kg	90
103)	1,2-Dibromo-3-Chloropropan	17.03	75	1991	4.18	ug/kg#	82
104)	1,2,4-Trichlorobenzene	17.91	180	12741	4.34	ug/kg	91
105)	Hexachlorobutadiene	17.99	225	6188	4.33	ug/kg	89
106)	Naphthalene	18.26	128	21668	3.74	ug/kg	93
107)	1,2,3-Trichlorobenzene	18.54	180	9939	4.06	ug/kg	98
109)	TPH-GRO (C6-C10)	11.41	TIC	4592531m	197.28	mg/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:34 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

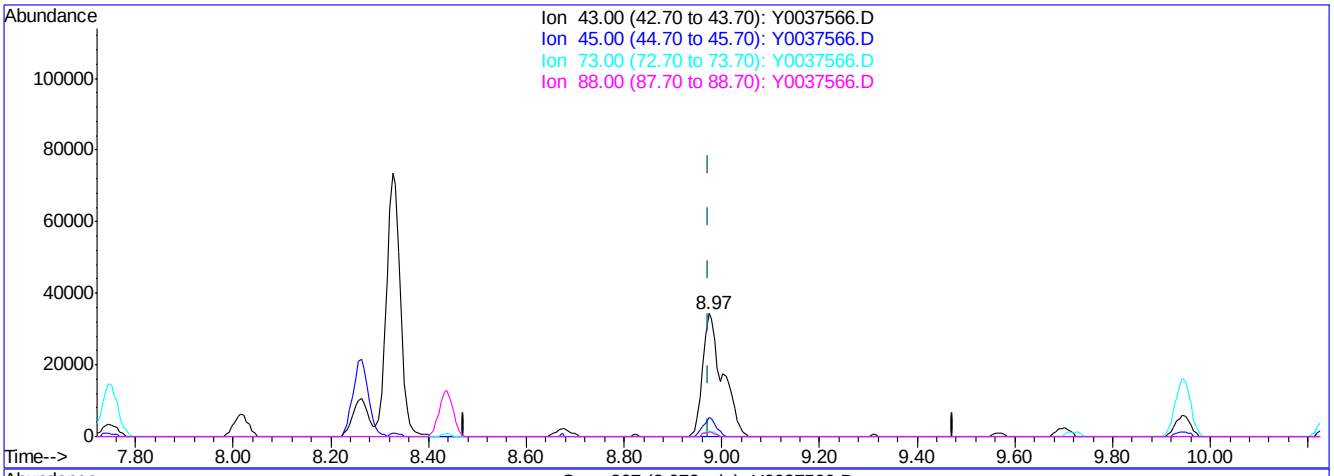


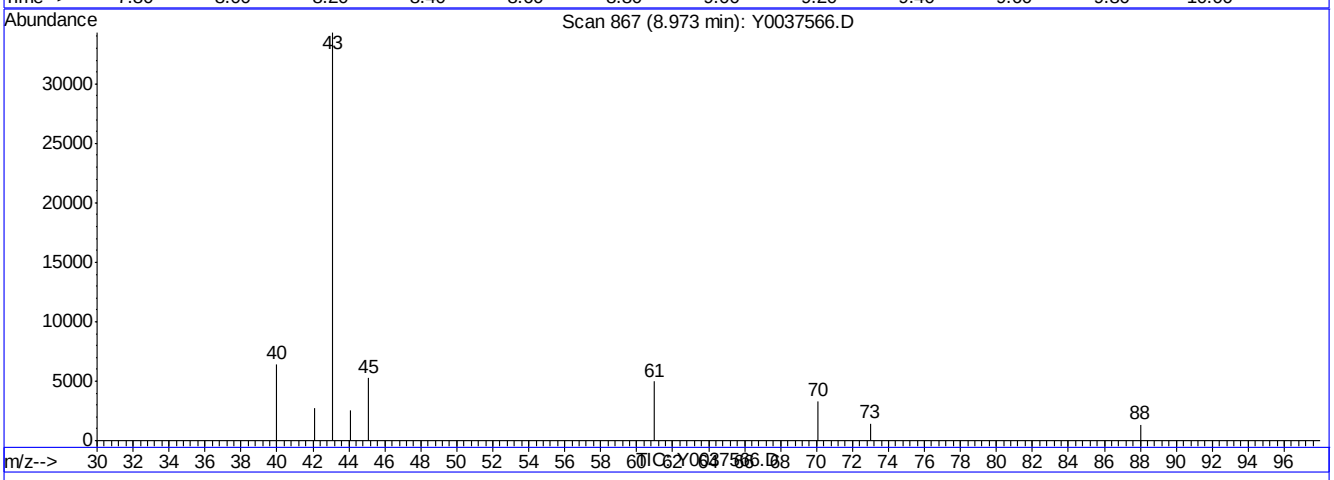
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 30.41ug/kg

response 96277

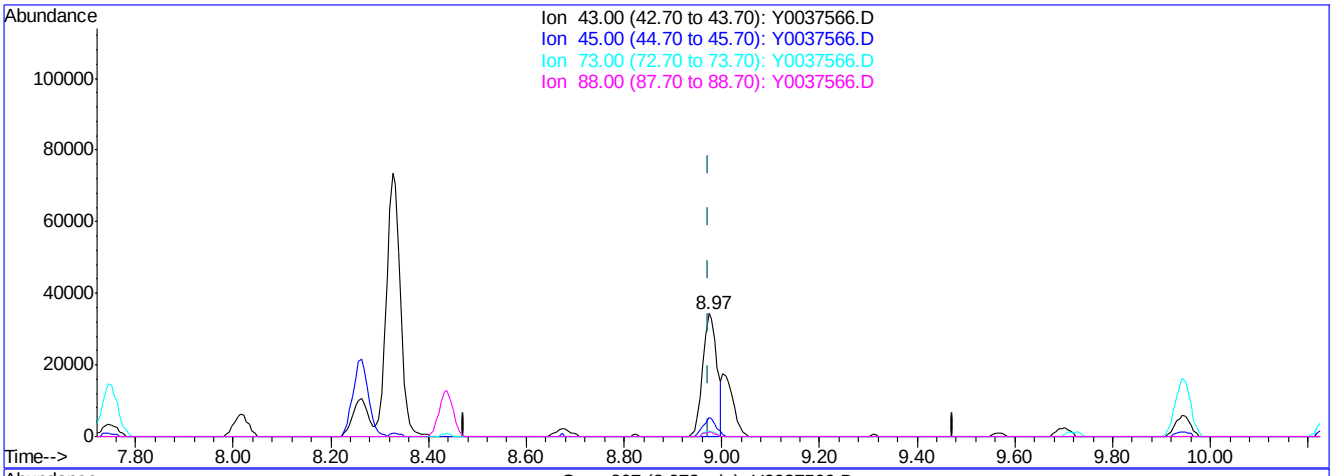
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	15.33
73.00	4.40	4.21
88.00	3.80	3.86

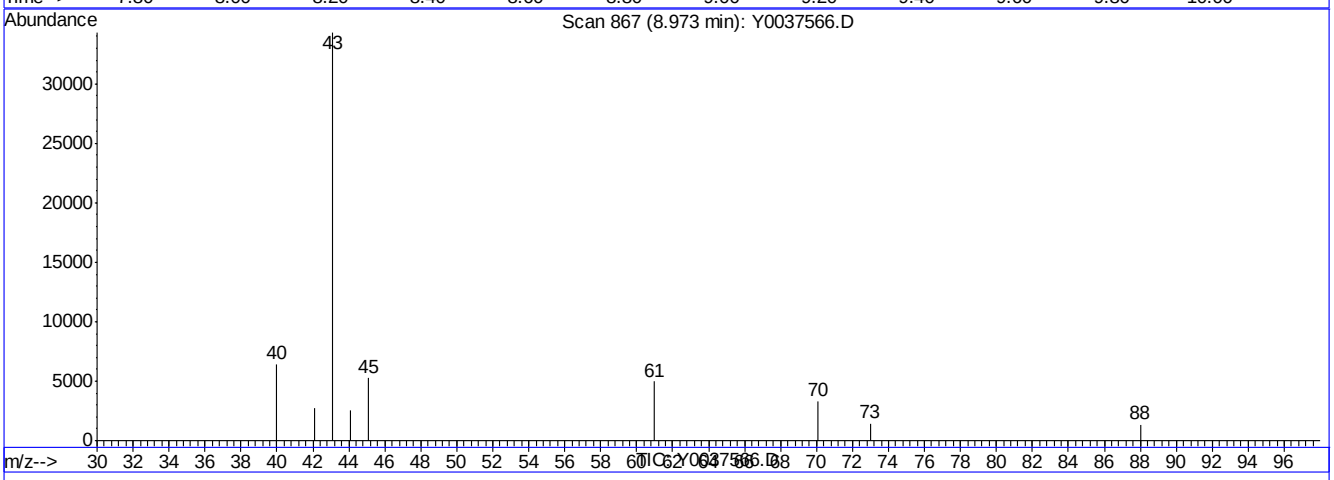
Y0037566.D VY2406AP9.M Thu Feb 04 09:33:48 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 21.64ug/kg m

response 68490

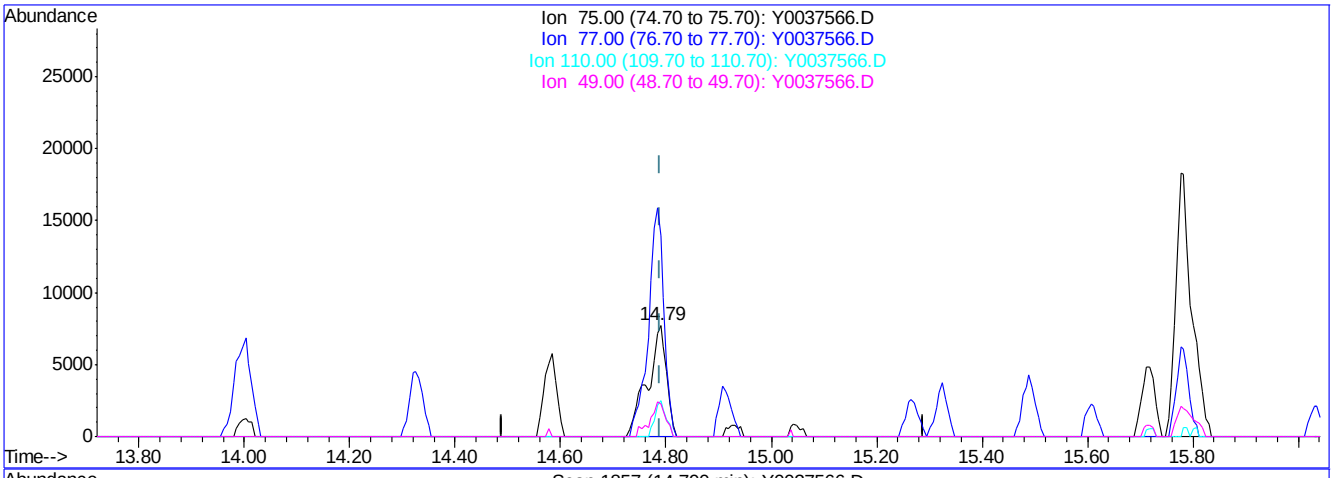
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	15.33
73.00	4.40	4.21
88.00	3.80	3.86

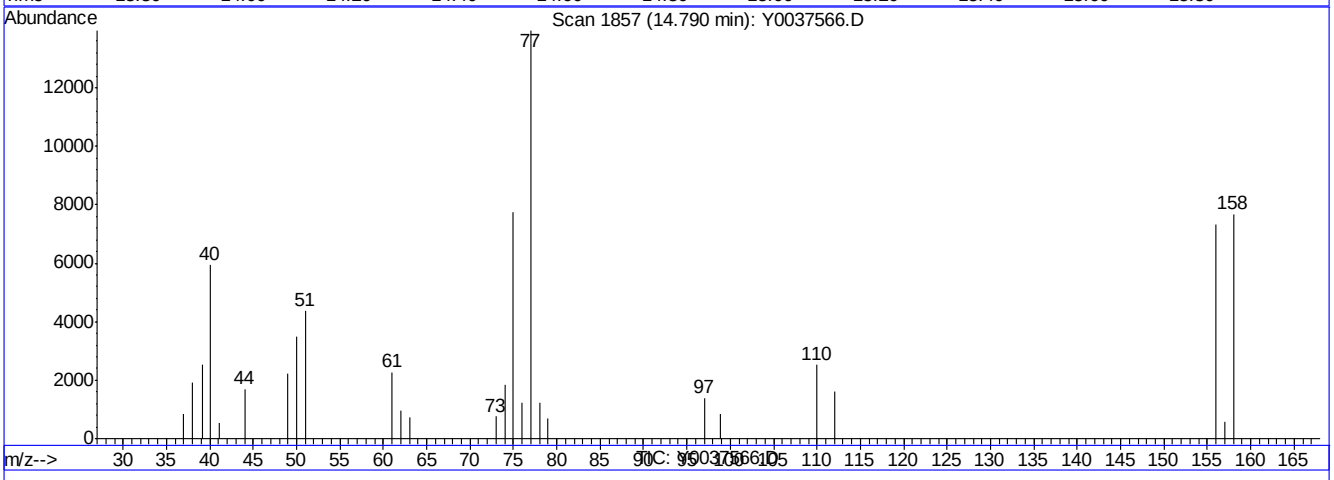
Y0037566.D VY2406AP9.M Thu Feb 04 09:33:54 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 6.03ug/kg

response 19338

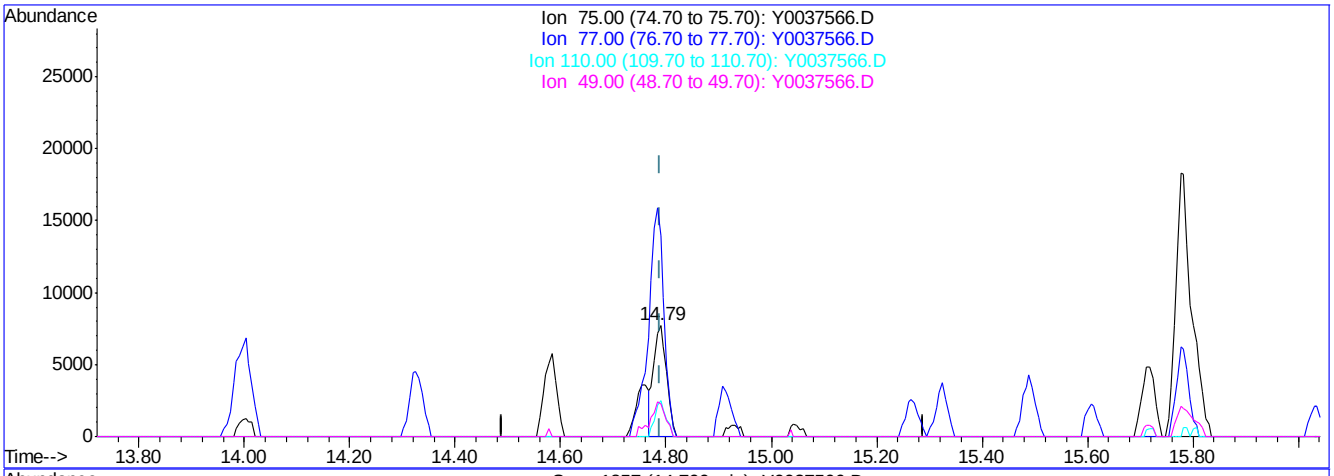
Ion	Exp%	Act%
75.00	100	100
77.00	194.40	180.09
110.00	31.80	32.61
49.00	28.70	28.90

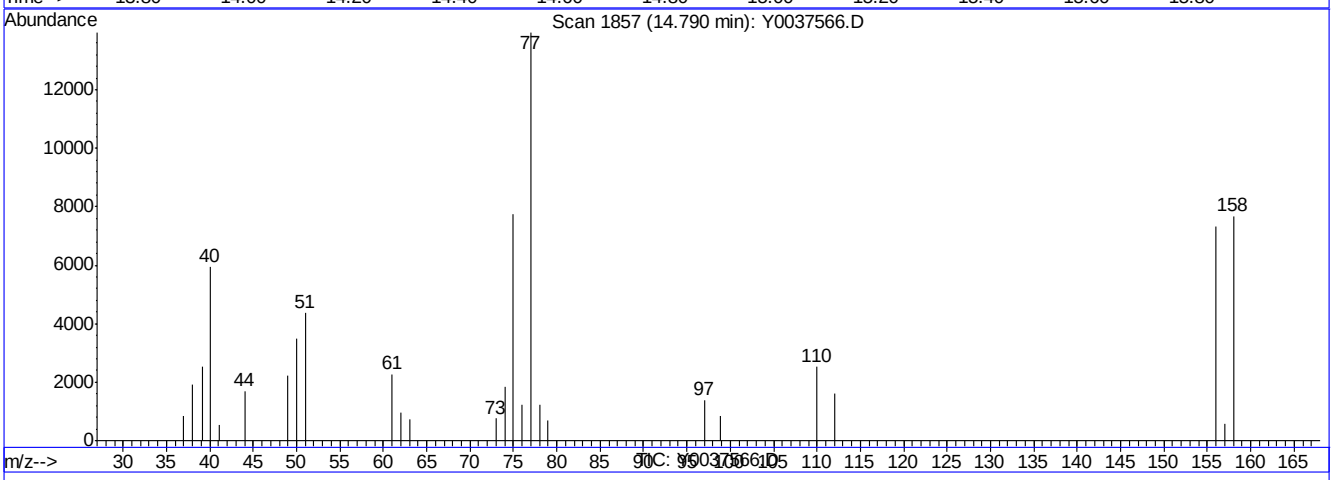
Y0037566.D VY2406AP9.M Thu Feb 04 09:33:59 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037566.D Vial: 2
Acq On : 3 Feb 2010 6:20 pm Operator: jennl
Sample : ic2406-4 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:34 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:33:28 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 4.12ug/kg m

response 13228

Ion	Exp%	Act%
75.00	100	100
77.00	194.40	180.09
110.00	31.80	32.61
49.00	28.70	28.90

Y0037566.D VY2406AP9.M Thu Feb 04 09:34:08 2010

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:32:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	735880	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	511760	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	232086	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	232086	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	35374	10.60	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 21.20%#			
46) 1,2-Dichloroethane-d4	9.95	65	40385	10.00	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 20.00%#			
63) Toluene-d8	11.84	98	118629	10.23	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 20.46%#			
84) 4-Bromofluorobenzene	14.58	95	45390	10.55	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 21.10%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	10012	9.01	ug/kg	100
3) Chloromethane	4.58	50	19325	10.91	ug/kg	99
4) Vinyl Chloride	4.81	62	15213	11.14	ug/kg	95
5) Bromomethane	5.48	94	12415	10.61	ug/kg	92
6) Chloroethane	5.65	64	9571	10.44	ug/kg	97
7) Trichlorofluoromethane	6.01	101	22634	10.04	ug/kg	92
9) Ethyl ether	6.43	59	29305	10.11	ug/kg	98
10) Acrolein	6.75	56	4422	48.83	ug/kg	96
11) 1,1-Dichloroethene	6.83	96	15529	10.97	ug/kg	96
12) Freon 113	6.75	101	12235	10.40	ug/kg	92
13) Acetone	6.95	43	40153	58.26	ug/kg	95
14) Iodomethane	7.12	142	31124	10.59	ug/kg	98
15) Methyl acetate	7.32	43	111616	51.80	ug/kg	98
16) Carbon Disulfide	7.20	76	54157	10.61	ug/kg	98
17) Allyl Chloride	7.34	41	49720	10.46	ug/kg	98
18) Acetonitrile	7.41	41	5034	27.79	ug/kg	94
19) Methylene Chloride	7.53	84	27356	11.39	ug/kg	98
20) Tert Butyl Alcohol	7.53	59	25048	100.67	ug/kg	97
21) trans-1,2-Dichloroethene	7.82	96	30484	10.34	ug/kg	95
22) Acrylonitrile	7.89	53	40602	50.28	ug/kg	93
23) Hexane	8.02	57	45706	10.57	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	78188	9.93	ug/kg	99
25) 1,1-Dichloroethane	8.37	63	63381	10.49	ug/kg	98
26) Vinyl acetate	8.33	43	342546	49.82	ug/kg	99
27) Di-isopropyl ether	8.26	45	119746	10.24	ug/kg	98
28) Chloroprene	8.43	53	111975	9.86	ug/kg	98
29) Ethyl tert-butyl ether	8.67	59	97692	10.03	ug/kg	97
30) Ethyl Acetate	8.97	43	152055m	48.50	ug/kg	
31) 2,2-Dichloropropane	9.01	77	31686	10.80	ug/kg	98
32) cis-1,2-Dichloroethene	9.03	96	32656	9.95	ug/kg	95
33) 2-Butanone	9.01	72	16027	52.55	ug/kg#	83
34) Propionitrile	9.18	54	14882	50.82	ug/kg	99
35) Bromochloromethane	9.31	128	16658	9.48	ug/kg	92
36) Methacrylonitrile	9.31	41	11668	10.29	ug/kg	94

(#) = qualifier out of range (m) = manual integration
Y0037567.D VY2406AP9.M Fri Feb 05 10:29:39 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:32:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Chloroform	9.34	83	61326	10.50 ug/kg	100
38) Tetrahydrofuran	9.57	42	10071	10.85 ug/kg	95
39) 1,1,1-Trichloroethane	9.56	97	42866	10.64 ug/kg	93
41) Cyclohexane	9.57	56	41111	10.14 ug/kg	96
42) Isobutyl Alcohol	9.70	43	9318	85.94 ug/kg	98
43) 1,1-Dichloropropene	9.72	75	42108	10.28 ug/kg	98
44) n-Butyl Alcohol	10.38	56	4654	75.80 ug/kg	97
45) Carbon Tetrachloride	9.71	117	40200	10.56 ug/kg	94
47) Benzene	9.95	78	133173	10.17 ug/kg	96
48) 1,2-Dichloroethane	10.03	62	46404	10.07 ug/kg	95
49) tert-amyl methyl ether	9.94	73	84366	9.61 ug/kg	97
50) Trichloroethene	10.60	95	33044	10.77 ug/kg	97
51) 1-Bromo-2-Chloroethane	11.53	63	44173	10.17 ug/kg	97
52) Methylcyclohexane	10.77	83	43641	10.32 ug/kg	97
53) Methyl Methacrylate	10.85	41	29070	9.88 ug/kg	99
54) 1,2-Dichloropropane	10.90	63	35906	10.38 ug/kg	97
55) Dibromomethane	11.04	93	21193	10.42 ug/kg	93
56) 1,4-Dioxane	10.96	88	2799	165.50 ug/kg	85
57) Bromodichloromethane	11.14	83	48353	10.40 ug/kg	99
58) 2-Nitropropane	11.42	41	42739	51.98 ug/kg	99
59) 2-Chloroethyl vinyl ether	11.37	63	31554	47.93 ug/kg	94
60) 4-Methyl-2-pentanone	11.68	100	17973	44.35 ug/kg#	87
61) cis-1,3-Dichloropropene	11.59	75	56545	10.21 ug/kg	99
64) Toluene	11.91	92	80518	10.10 ug/kg	99
65) Ethyl Methacrylate	12.08	69	38036	9.07 ug/kg	98
66) trans-1,3-Dichloropropene	12.15	75	48233	10.13 ug/kg	98
67) 1,1,2-Trichloroethane	12.36	83	24676	10.44 ug/kg	98
68) Tetrachloroethene	12.46	164	25325	10.50 ug/kg	96
69) 2-hexanone	12.52	43	94428	45.63 ug/kg	99
70) 1,3-Dichloropropane	12.56	76	49200	10.09 ug/kg	95
71) Dibromochloromethane	12.79	129	35682	10.24 ug/kg	96
72) 1,2-Dibromoethane	12.97	107	28228	10.17 ug/kg	95
73) 1-Chlorohexane	13.25	91	40281	10.10 ug/kg	99
74) Chlorobenzene	13.42	112	92955	10.41 ug/kg	96
75) 1,1,1,2-Tetrachloroethane	13.47	131	32047	10.34 ug/kg	92
76) Ethylbenzene	13.44	91	151685	10.17 ug/kg	99
77) m,p-Xylene	13.55	106	117786	20.41 ug/kg	100
78) o-Xylene	13.99	106	55101	10.08 ug/kg	93
79) Styrene	14.00	104	97503	9.74 ug/kg	98
80) Bromoform	14.30	173	21366	10.12 ug/kg	99
82) Isopropylbenzene	14.33	105	114475	10.12 ug/kg	98
83) Cyclohexanone	14.58	55	2478	38.65 ug/kg#	75
85) Bromobenzene	14.78	156	36784	9.69 ug/kg	97
86) 1,1,2,2-Tetrachloroethane	14.69	83	33137	10.10 ug/kg	98
87) Trans-1,4-Dichloro-2-Buten	14.75	53	12185	10.12 ug/kg#	48
88) 1,2,3-Trichloropropane	14.79	75	31196m	10.07 ug/kg	
89) n-Propylbenzene	14.75	91	162197	10.18 ug/kg	100
90) 2-Chlorotoluene	14.93	91	112438	10.12 ug/kg	98
91) 4-Chlorotoluene	15.04	91	101431	10.31 ug/kg	97

(#) = qualifier out of range (m) = manual integration
Y0037567.D VY2406AP9.M Fri Feb 05 10:29:39 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:32:17 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

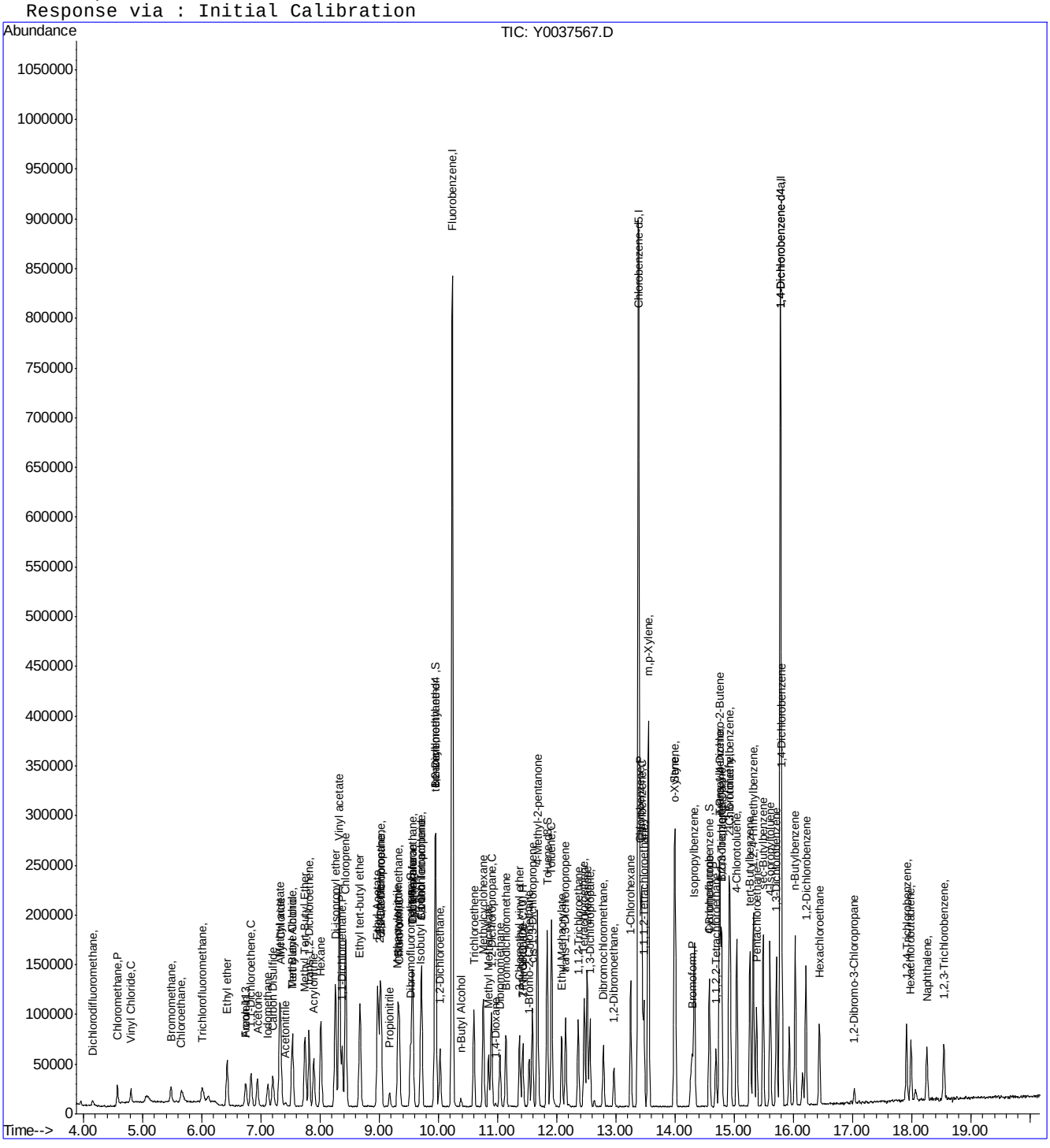
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	107924	10.28	ug/kg	99
93)	Pentachloroethane	15.38	167	20174	10.29	ug/kg	88
94)	sec-Butylbenzene	15.49	105	123634	10.30	ug/kg	100
95)	1,3-Dichlorobenzene	15.72	146	65441	10.62	ug/kg	97
96)	4-Isopropyltoluene	15.61	119	100942	10.31	ug/kg	99
97)	1,4-Dichlorobenzene	15.81	146	64669	10.24	ug/kg	98
98)	tert-Butylbenzene	15.27	91	55633	10.53	ug/kg	97
99)	n-Butylbenzene	16.03	91	96841	10.23	ug/kg	96
100)	1,2-Dichlorobenzene	16.21	146	58278	10.53	ug/kg	99
101)	1,2,4-Trimethylbenzene	15.32	105	110955	10.29	ug/kg	97
102)	Hexachloroethane	16.44	119	18883	11.20	ug/kg	93
103)	1,2-Dibromo-3-Chloropropan	17.03	75	4802	10.43	ug/kg	84
104)	1,2,4-Trichlorobenzene	17.91	180	30332	10.80	ug/kg	96
105)	Hexachlorobutadiene	17.99	225	14414	10.46	ug/kg	89
106)	Naphthalene	18.26	128	52072	9.41	ug/kg	96
107)	1,2,3-Trichlorobenzene	18.54	180	23096	9.89	ug/kg	92
109)	TPH-GRO (C6-C10)	11.41	TIC	12149838m	571.14	mg/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:32 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

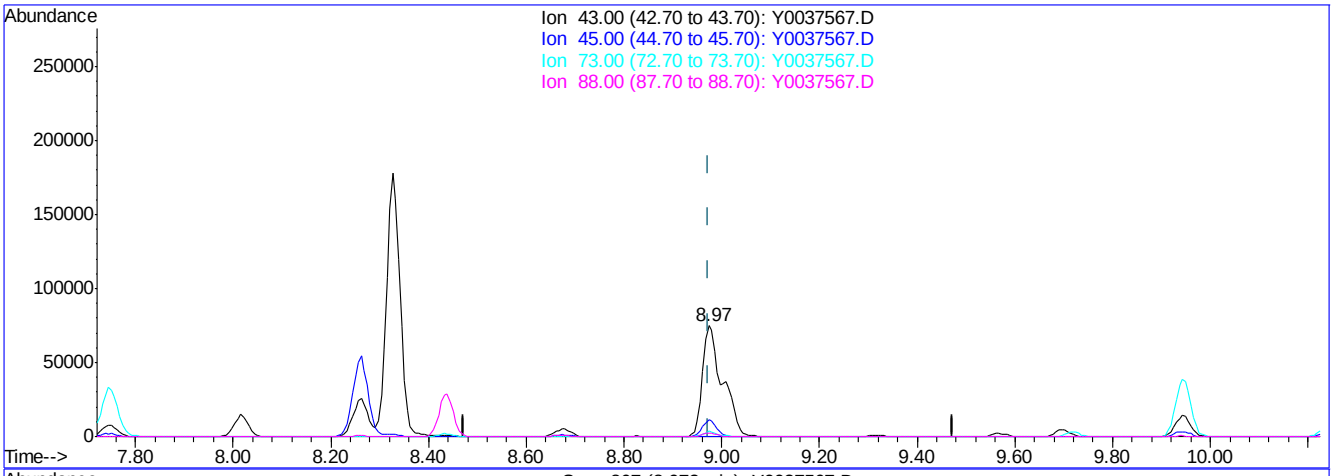


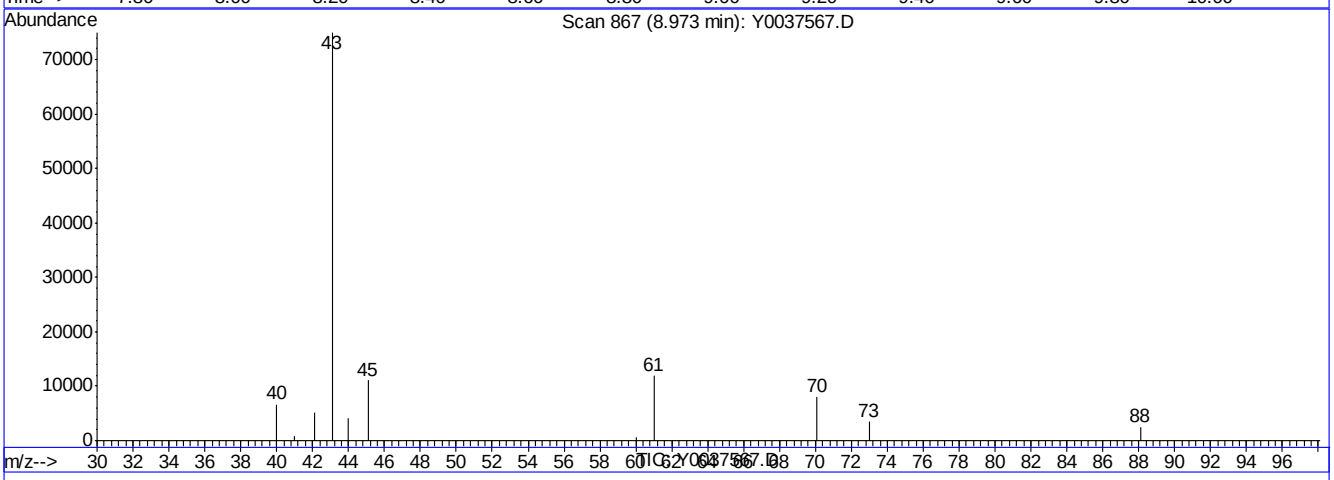
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:32 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 67.55ug/kg

response 211761

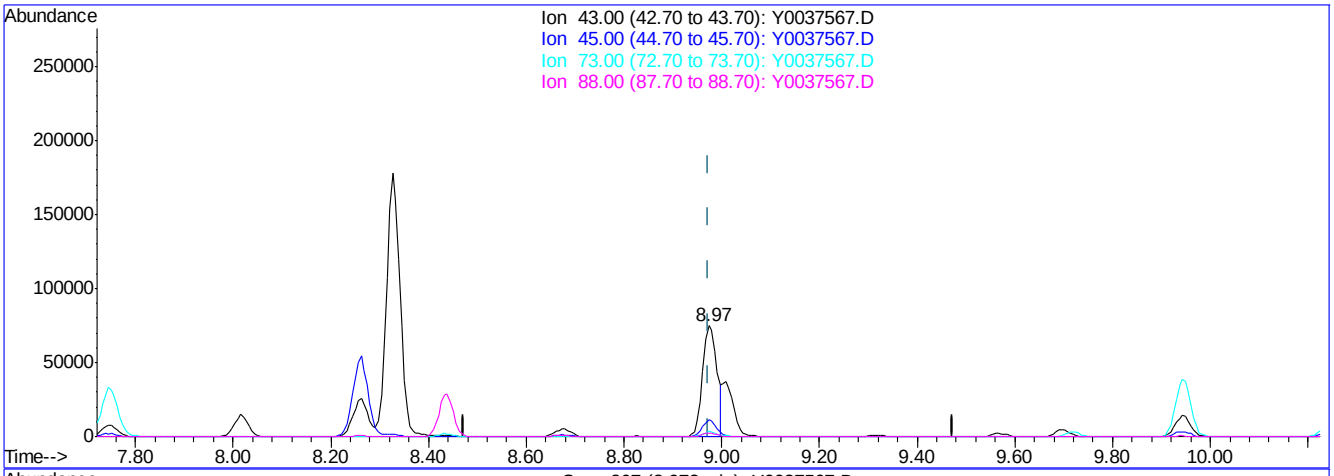
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.81
73.00	4.40	4.62
88.00	3.80	3.37

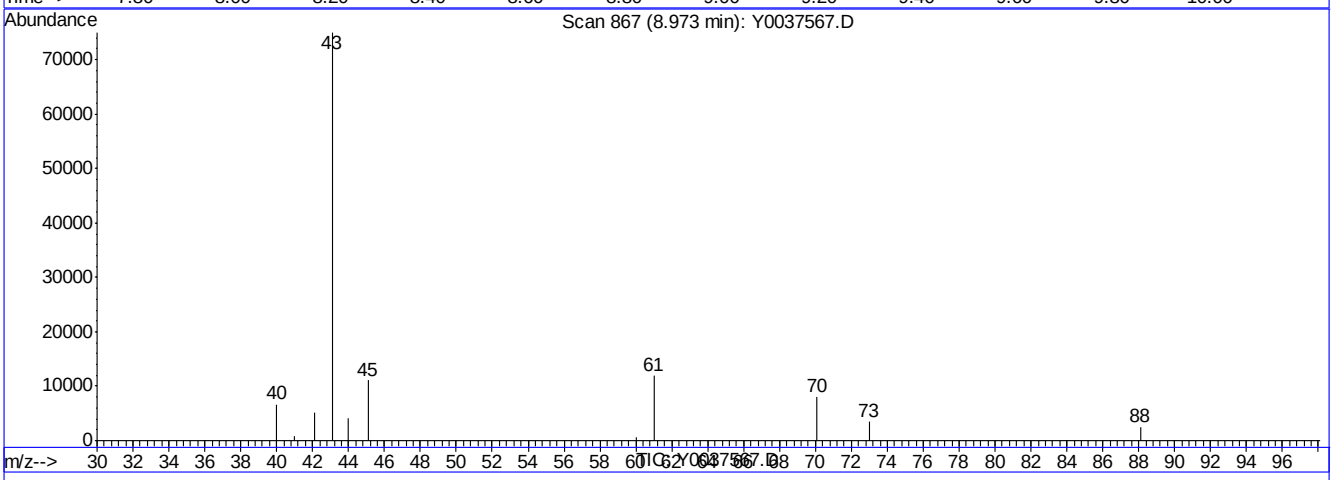
Y0037567.D VY2406AP9.M Thu Feb 04 09:32:25 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:32 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 48.50ug/kg m

response 152055

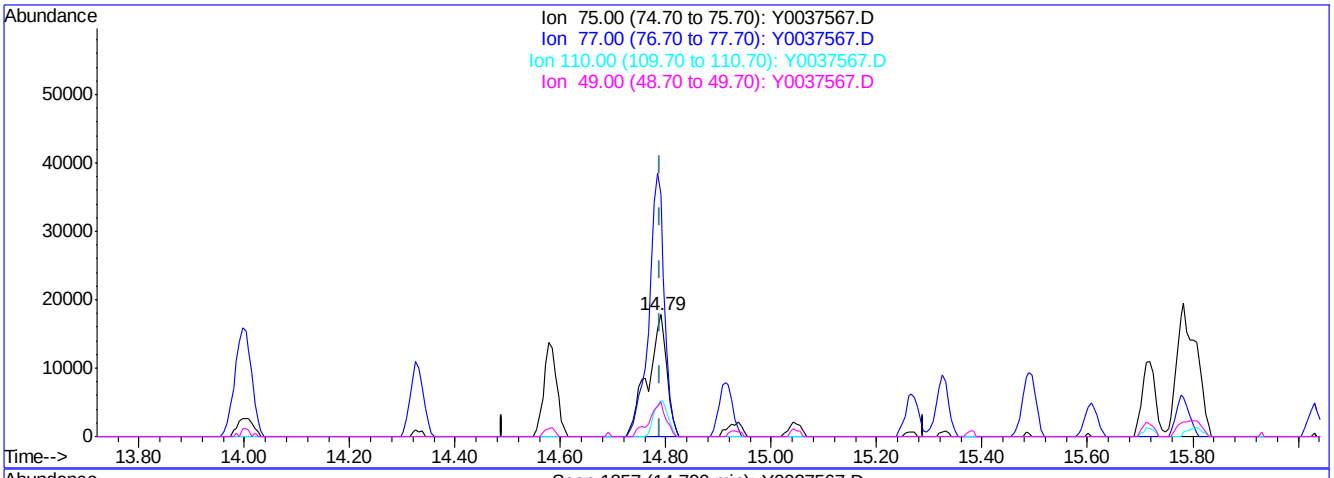
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.81
73.00	4.40	4.62
88.00	3.80	3.37

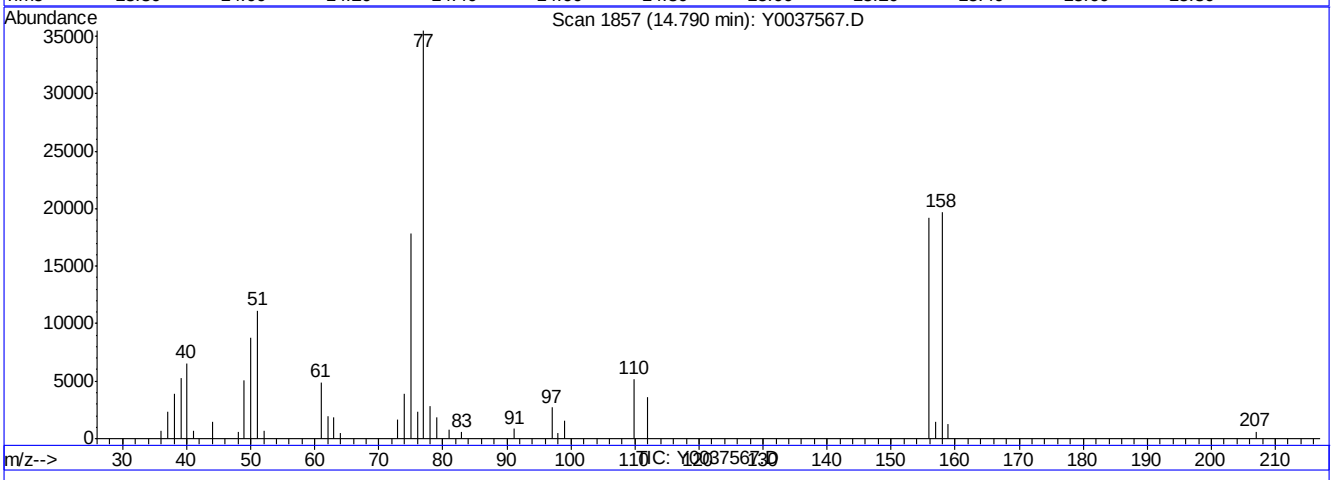
Y0037567.D VY2406AP9.M Thu Feb 04 09:32:31 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:32 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 14.47ug/kg

response 44807

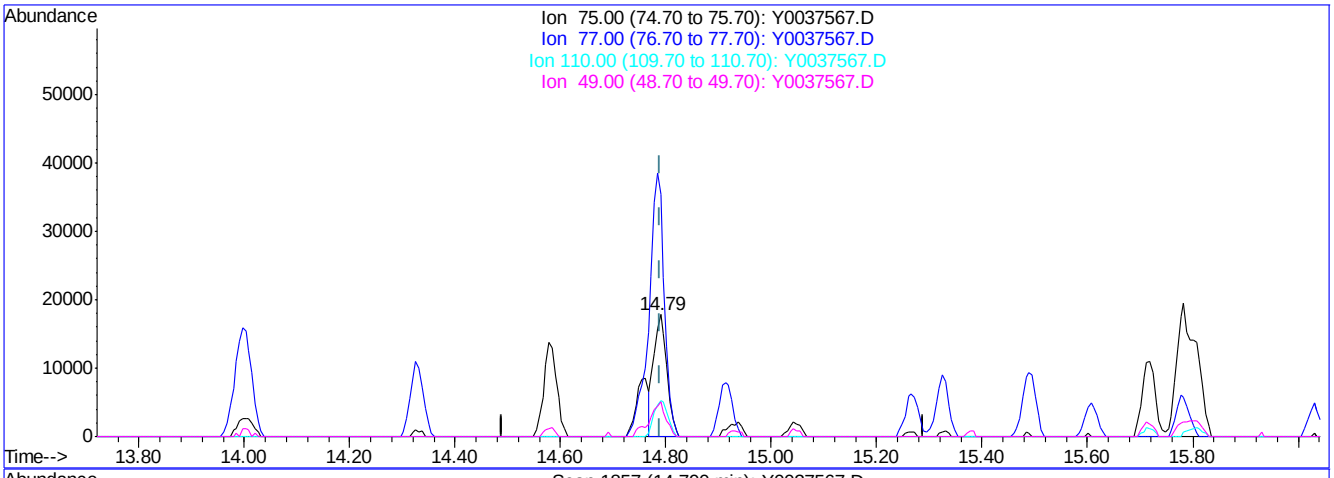
Ion	Exp%	Act%
75.00	100	100
77.00	194.40	199.15
110.00	31.80	29.25
49.00	28.70	28.28

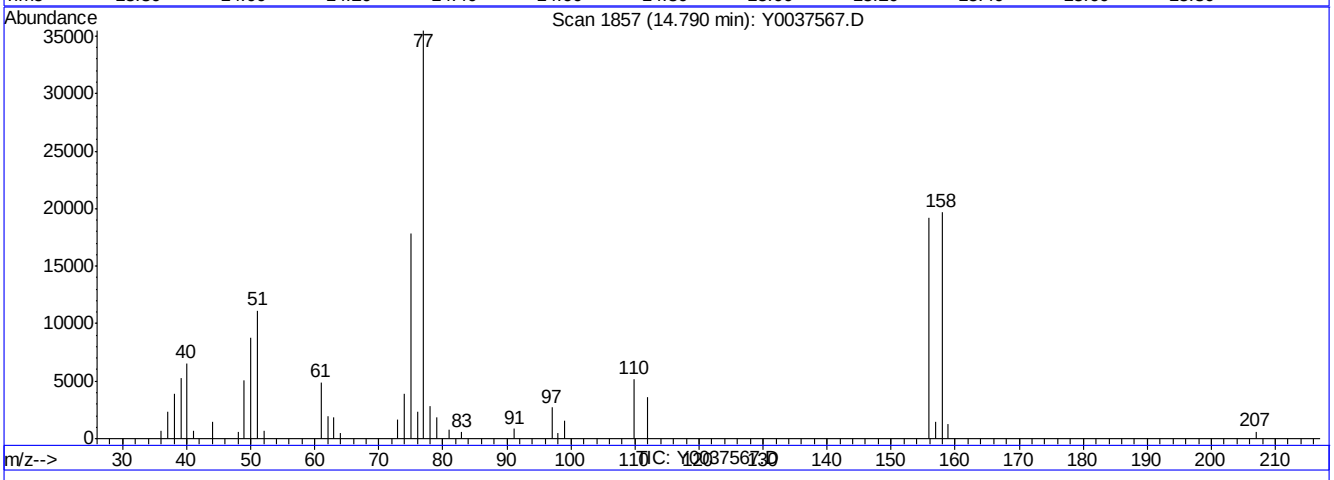
Y0037567.D VY2406AP9.M Thu Feb 04 09:32:37 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037567.D Vial: 3
Acq On : 3 Feb 2010 6:50 pm Operator: jennl
Sample : ic2406-10 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:32 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:09 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 10.07ug/kg m

response 31196

Ion	Exp%	Act%
75.00	100	100
77.00	194.40	199.15
110.00	31.80	29.25
49.00	28.70	28.28

Y0037567.D VY2406AP9.M Thu Feb 04 09:32:43 2010

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:29:35 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:29:27 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	753751	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	528240	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	240030	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	240030	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	68264	19.53	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 39.06%#			
46) 1,2-Dichloroethane-d4	9.95	65	83046	19.73	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 39.46%#			
63) Toluene-d8	11.84	98	238534	19.71	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 39.42%#			
84) 4-Bromofluorobenzene	14.58	95	88606	19.62	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 39.24%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	22643	19.49	ug/kg	97
3) Chloromethane	4.58	50	38065	20.80	ug/kg	94
4) Vinyl Chloride	4.81	62	29209	20.68	ug/kg	96
5) Bromomethane	5.48	94	25188	21.05	ug/kg	97
6) Chloroethane	5.65	64	19082	20.10	ug/kg	98
7) Trichlorofluoromethane	6.01	101	48072	20.52	ug/kg	99
9) Ethyl ether	6.43	59	59026	19.77	ug/kg	99
10) Acrolein	6.75	56	9345	100.42	ug/kg	98
11) 1,1-Dichloroethene	6.83	96	30474	21.16	ug/kg	90
12) Freon 113	6.75	101	25569	21.28	ug/kg	93
13) Acetone	6.95	43	76058	108.74	ug/kg	98
14) Iodomethane	7.12	142	61158	20.33	ug/kg	99
15) Methyl acetate	7.32	43	226529	102.11	ug/kg	98
16) Carbon Disulfide	7.20	76	109464	21.01	ug/kg	100
17) Allyl Chloride	7.34	41	96174	19.54	ug/kg	98
18) Acetonitrile	7.42	41	9683	52.17	ug/kg	89
19) Methylene Chloride	7.53	84	52607	21.52	ug/kg	98
20) Tert Butyl Alcohol	7.54	59	50209	196.07	ug/kg	93
21) trans-1,2-Dichloroethene	7.82	96	61742	20.54	ug/kg	98
22) Acrylonitrile	7.90	53	85051	102.80	ug/kg	95
23) Hexane	8.02	57	91669	20.61	ug/kg	99
24) Methyl Tert Butyl Ether	7.75	73	161596	19.97	ug/kg	99
25) 1,1-Dichloroethane	8.37	63	126229	20.43	ug/kg	99
26) Vinyl acetate	8.33	43	691684	97.55	ug/kg	99
27) Di-isopropyl ether	8.26	45	241383	20.19	ug/kg	99
28) Chloroprene	8.44	53	230377	19.66	ug/kg	99
29) Ethyl tert-butyl ether	8.67	59	199724	19.96	ug/kg	99
30) Ethyl Acetate	8.97	43	311899m	96.31	ug/kg	
31) 2,2-Dichloropropane	9.01	77	63152	21.12	ug/kg	95
32) cis-1,2-Dichloroethene	9.03	96	68584	20.43	ug/kg	96
33) 2-Butanone	9.01	72	32483	104.91	ug/kg#	80
34) Propionitrile	9.18	54	30751	102.90	ug/kg	99
35) Bromochloromethane	9.32	128	36504	20.34	ug/kg	98
36) Methacrylonitrile	9.31	41	23593	20.15	ug/kg	88

(#) = qualifier out of range (m) = manual integration
Y0037568.D VY2406AP9.M Fri Feb 05 10:29:41 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:29:35 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:29:27 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	121647	20.34	ug/kg	97
38)	Tetrahydrofuran	9.57	42	19842	20.70	ug/kg	96
39)	1,1,1-Trichloroethane	9.56	97	85467	20.81	ug/kg	95
41)	Cyclohexane	9.57	56	86187	20.69	ug/kg	97
42)	Isobutyl Alcohol	9.70	43	20595	183.32	ug/kg	96
43)	1,1-Dichloropropene	9.72	75	87202	20.93	ug/kg	95
44)	n-Butyl Alcohol	10.38	56	11090	174.58	ug/kg	95
45)	Carbon Tetrachloride	9.71	117	80268	20.55	ug/kg	96
47)	Benzene	9.96	78	266884	19.93	ug/kg	99
48)	1,2-Dichloroethane	10.03	62	96325	20.38	ug/kg	99
49)	tert-amyl methyl ether	9.94	73	175316	19.33	ug/kg	100
50)	Trichloroethene	10.60	95	64507	20.54	ug/kg	97
51)	1-Bromo-2-Chloroethane	11.54	63	90589	20.27	ug/kg	98
52)	Methylcyclohexane	10.76	83	90374	20.79	ug/kg	99
53)	Methyl Methacrylate	10.85	41	59502	19.50	ug/kg	99
54)	1,2-Dichloropropane	10.90	63	72531	20.43	ug/kg	97
55)	Dibromomethane	11.04	93	42295	20.33	ug/kg	99
56)	1,4-Dioxane	10.96	88	5525	311.99	ug/kg	91
57)	Bromodichloromethane	11.14	83	95587	19.96	ug/kg	99
58)	2-Nitropropane	11.43	41	86235	101.79	ug/kg	96
59)	2-Chloroethyl vinyl ether	11.37	63	66673	98.22	ug/kg	97
60)	4-Methyl-2-pentanone	11.68	100	39236	92.60	ug/kg#	88
61)	cis-1,3-Dichloropropene	11.59	75	113309	19.85	ug/kg	97
64)	Toluene	11.91	92	162548	19.85	ug/kg	99
65)	Ethyl Methacrylate	12.08	69	80656	18.32	ug/kg	98
66)	trans-1,3-Dichloropropene	12.15	75	96757	19.62	ug/kg	98
67)	1,1,2-Trichloroethane	12.36	83	48711	19.91	ug/kg	95
68)	Tetrachloroethene	12.46	164	51687	21.04	ug/kg	97
69)	2-hexanone	12.52	43	202239	93.48	ug/kg	97
70)	1,3-Dichloropropane	12.56	76	100135	19.83	ug/kg	98
71)	Dibromochloromethane	12.79	129	71256	19.82	ug/kg	99
72)	1,2-Dibromoethane	12.97	107	58268	20.35	ug/kg	93
73)	1-Chlorohexane	13.25	91	84836	20.63	ug/kg	98
74)	Chlorobenzene	13.42	112	183036	19.75	ug/kg	98
75)	1,1,1,2-Tetrachloroethane	13.47	131	64085	20.04	ug/kg	97
76)	Ethylbenzene	13.44	91	307231	19.88	ug/kg	100
77)	m,p-Xylene	13.55	106	235031	38.91	ug/kg	99
78)	o-Xylene	13.99	106	112188	19.72	ug/kg	99
79)	Styrene	14.00	104	201974	19.36	ug/kg	98
80)	Bromoform	14.30	173	43345	19.65	ug/kg	99
82)	Isopropylbenzene	14.33	105	231051	19.74	ug/kg	99
83)	Cyclohexanone	14.58	55	5871	88.26	ug/kg#	84
85)	Bromobenzene	14.78	156	76853	19.72	ug/kg	95
86)	1,1,2,2-Tetrachloroethane	14.69	83	68036	20.05	ug/kg	98
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	24110	19.38	ug/kg	100
88)	1,2,3-Trichloropropane	14.79	75	62738	19.62	ug/kg	96
89)	n-Propylbenzene	14.75	91	325054	19.75	ug/kg	100
90)	2-Chlorotoluene	14.93	91	226333	19.71	ug/kg	98
91)	4-Chlorotoluene	15.04	91	201309	19.67	ug/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:29:35 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:29:27 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

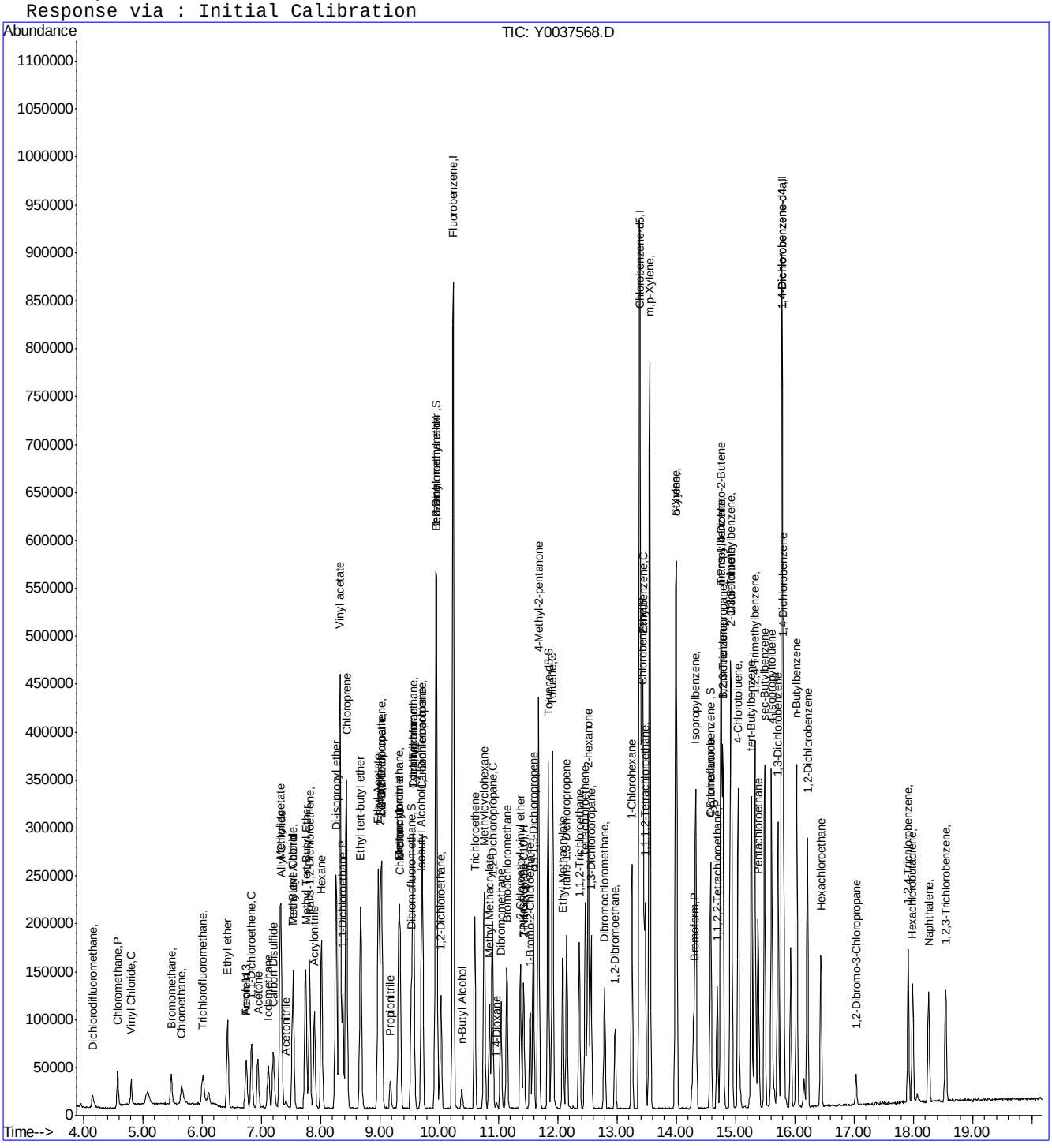
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	214388	19.57	ug/kg	99
93)	Pentachloroethane	15.38	167	39476	19.15	ug/kg	94
94)	sec-Butylbenzene	15.49	105	254938	20.56	ug/kg	98
95)	1,3-Dichlorobenzene	15.72	146	128817	20.13	ug/kg	99
96)	4-Isopropyltoluene	15.61	119	206825	20.43	ug/kg	99
97)	1,4-Dichlorobenzene	15.81	146	135291	20.73	ug/kg	98
98)	tert-Butylbenzene	15.27	91	110451	20.27	ug/kg	98
99)	n-Butylbenzene	16.03	91	201405	20.56	ug/kg	98
100)	1,2-Dichlorobenzene	16.21	146	115368	20.02	ug/kg	98
101)	1,2,4-Trimethylbenzene	15.32	105	223010	19.96	ug/kg	99
102)	Hexachloroethane	16.44	119	36055	20.51	ug/kg	95
103)	1,2-Dibromo-3-Chloropropan	17.03	75	9550	20.24	ug/kg	95
104)	1,2,4-Trichlorobenzene	17.91	180	59654	20.37	ug/kg	96
105)	Hexachlorobutadiene	17.99	225	30262	21.24	ug/kg	94
106)	Naphthalene	18.26	128	109808	19.10	ug/kg	100
107)	1,2,3-Trichlorobenzene	18.54	180	48499	20.08	ug/kg	95
109)	TPH-GRO (C6-C10)	11.41	TIC	25222860m	1029.30	mg/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:29 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

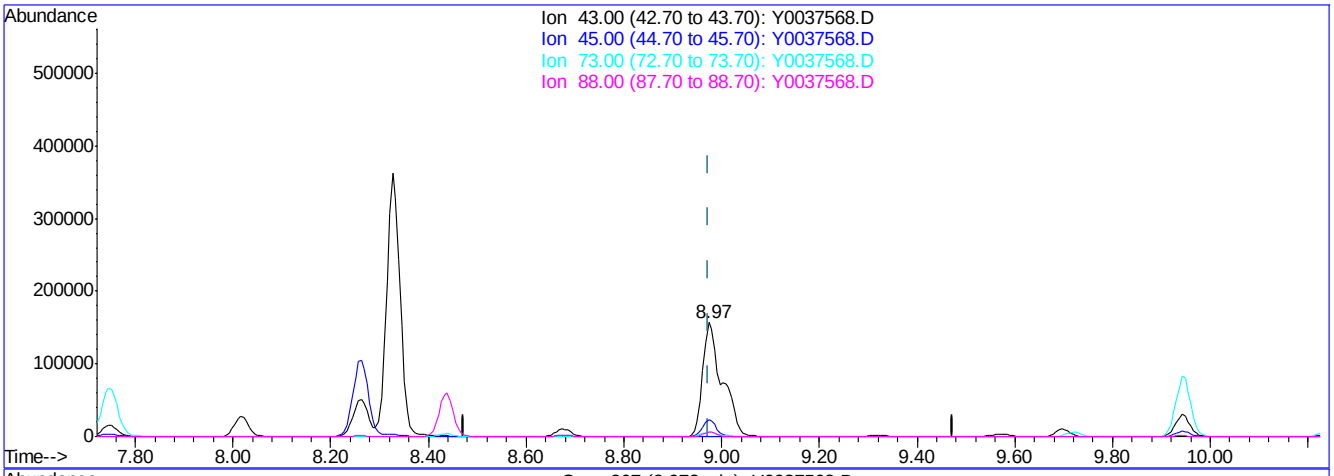


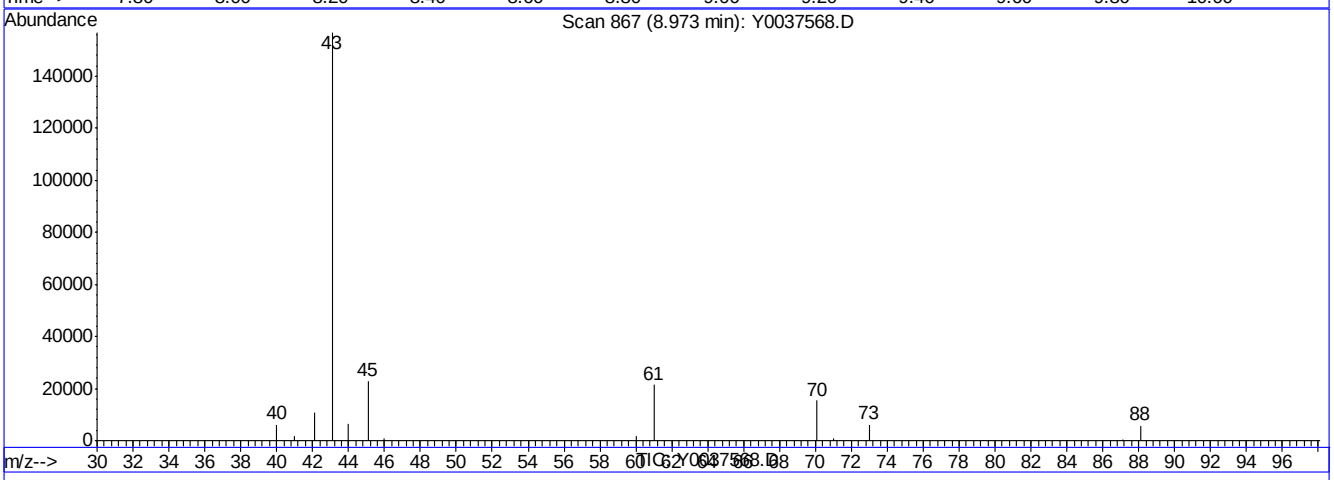
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:29 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:29:27 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (0.000) 133.88ug/kg

response 433552

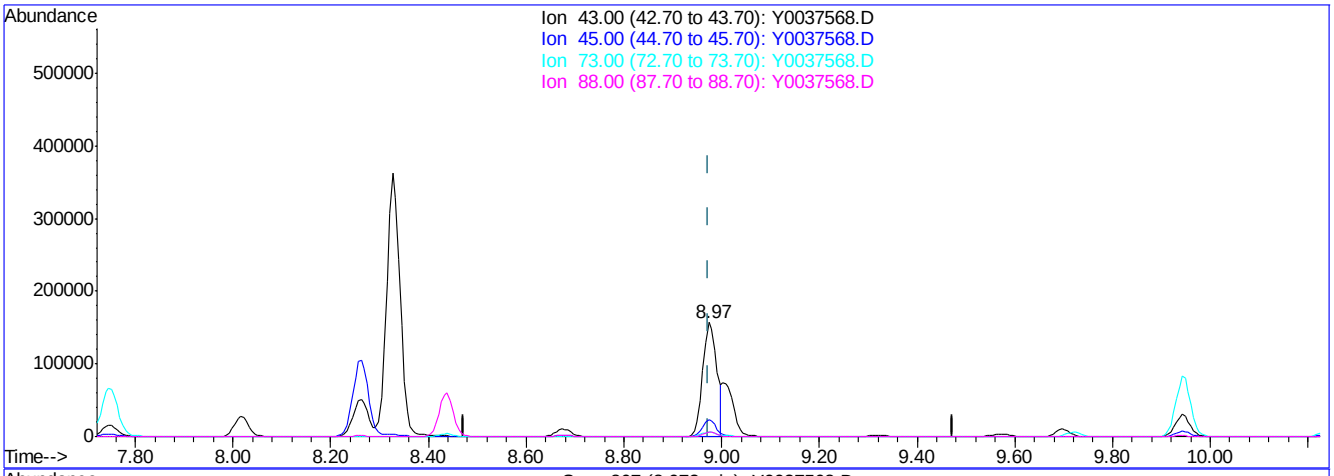
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.69
73.00	4.40	3.94
88.00	3.80	3.64

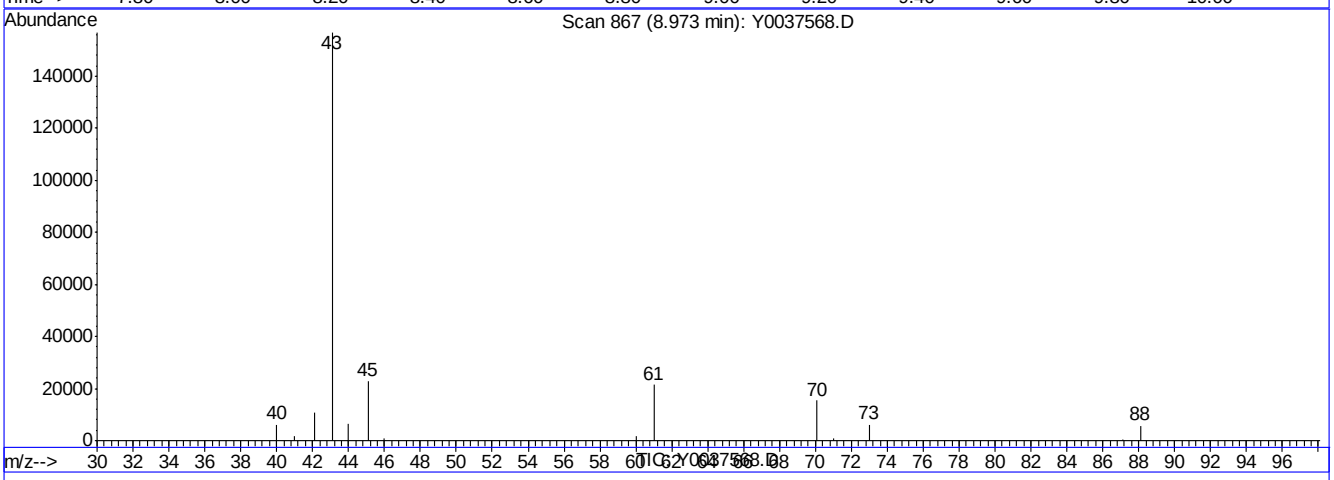
Y0037568.D VY2406AP9.M Thu Feb 04 09:29:45 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037568.D Vial: 4
Acq On : 3 Feb 2010 7:20 pm Operator: jennl
Sample : ic2406-20 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:29 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:29:27 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (0.000) 96.31ug/kg m

response 311899

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.69
73.00	4.40	3.94
88.00	3.80	3.64

Y0037568.D VY2406AP9.M Thu Feb 04 09:29:53 2010

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:37:08 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	753778	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	528124	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	238527	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	238527	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	142745	41.26	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 82.52%			
46) 1,2-Dichloroethane-d4	9.95	65	171482	41.19	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 82.38%			
63) Toluene-d8	11.84	98	488557	39.92	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 79.84%			
84) 4-Bromofluorobenzene	14.58	95	180536	39.22	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 78.44%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	47253	42.75	ug/kg	100
3) Chloromethane	4.58	50	75753	41.40	ug/kg	100
4) Vinyl Chloride	4.81	62	58098	40.66	ug/kg	100
5) Bromomethane	5.48	94	48785	39.52	ug/kg	100
6) Chloroethane	5.65	64	38760	40.57	ug/kg	100
7) Trichlorofluoromethane	6.01	101	96272	41.99	ug/kg	100
9) Ethyl ether	6.43	59	118579	39.05	ug/kg	100
10) Acrolein	6.75	56	18964	202.31	ug/kg	100
11) 1,1-Dichloroethene	6.83	96	57193	38.35	ug/kg	100
12) Freon 113	6.75	101	48026	39.53	ug/kg	100
13) Acetone	6.94	43	143683	204.84	ug/kg	100
14) Iodomethane	7.12	142	118823	38.89	ug/kg	100
15) Methyl acetate	7.32	43	451657	199.25	ug/kg	100
16) Carbon Disulfide	7.20	76	207257	38.85	ug/kg	100
17) Allyl Chloride	7.34	41	197899	39.67	ug/kg	100
18) Acetonitrile	7.42	41	19304	103.57	ug/kg	100
19) Methylene Chloride	7.53	84	98474	40.41	ug/kg	100
20) Tert Butyl Alcohol	7.54	59	102648	394.11	ug/kg	100
21) trans-1,2-Dichloroethene	7.82	96	119280	38.87	ug/kg	100
22) Acrylonitrile	7.90	53	167441	196.71	ug/kg	100
23) Hexane	8.02	57	173956	38.29	ug/kg	100
24) Methyl Tert Butyl Ether	7.75	73	322315	39.65	ug/kg	100
25) 1,1-Dichloroethane	8.37	63	244512	38.60	ug/kg	100
26) Vinyl acetate	8.33	43	1408009	198.34	ug/kg	100
27) Di-isopropyl ether	8.26	45	468295	38.79	ug/kg	100
28) Chloroprene	8.44	53	473316	40.08	ug/kg	100
29) Ethyl tert-butyl ether	8.67	59	398440	39.73	ug/kg	100
30) Ethyl Acetate	8.97	43	631980m	194.19	ug/kg	
31) 2,2-Dichloropropane	9.02	77	118072	37.97	ug/kg	100
32) cis-1,2-Dichloroethene	9.03	96	133229	38.75	ug/kg	100
33) 2-Butanone	9.01	72	63065	194.82	ug/kg	100
34) Propionitrile	9.18	54	61186	196.42	ug/kg	100
35) Bromochloromethane	9.32	128	70520	39.45	ug/kg	100
36) Methacrylonitrile	9.31	41	47449	40.37	ug/kg	100

(#) = qualifier out of range (m) = manual integration
Y0037569.D VY2406AP9.M Fri Feb 05 10:29:45 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:37:08 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	236539	38.47	ug/kg	100
38)	Tetrahydrofuran	9.57	42	38378	39.44	ug/kg	100
39)	1,1,1-Trichloroethane	9.56	97	162135	38.14	ug/kg	100
41)	Cyclohexane	9.57	56	166612	39.69	ug/kg	100
42)	Isobutyl Alcohol	9.70	43	44384	393.76	ug/kg	100
43)	1,1-Dichloropropene	9.72	75	163566	38.26	ug/kg	100
44)	n-Butyl Alcohol	10.38	56	24709	395.25	ug/kg	100
45)	Carbon Tetrachloride	9.71	117	154477	38.74	ug/kg	100
47)	Benzene	9.96	78	521881	38.33	ug/kg	100
48)	1,2-Dichloroethane	10.03	62	189871	39.69	ug/kg	100
49)	tert-amyl methyl ether	9.94	73	356622	39.77	ug/kg	100
50)	Trichloroethene	10.60	95	123931	38.21	ug/kg	100
51)	1-Bromo-2-Chloroethane	11.54	63	178490	39.98	ug/kg	100
52)	Methylcyclohexane	10.76	83	170284	38.77	ug/kg	100
53)	Methyl Methacrylate	10.85	41	123533	40.71	ug/kg	100
54)	1,2-Dichloropropane	10.90	63	140135	39.22	ug/kg	100
55)	Dibromomethane	11.04	93	83430	39.60	ug/kg	100
56)	1,4-Dioxane	10.96	88	12854	715.46	ug/kg	100
57)	Bromodichloromethane	11.14	83	189327	39.25	ug/kg	100
58)	2-Nitropropane	11.42	41	172476	200.51	ug/kg	100
59)	2-Chloroethyl vinyl ether	11.37	63	135939	202.66	ug/kg	100
60)	4-Methyl-2-pentanone	11.68	100	84804	208.39	ug/kg	100
61)	cis-1,3-Dichloropropene	11.59	75	225267	39.50	ug/kg	100
64)	Toluene	11.91	92	319692	37.84	ug/kg	100
65)	Ethyl Methacrylate	12.08	69	176637	40.70	ug/kg	100
66)	trans-1,3-Dichloropropene	12.15	75	195464	39.20	ug/kg	100
67)	1,1,2-Trichloroethane	12.36	83	97402	39.08	ug/kg	100
68)	Tetrachloroethene	12.47	164	95513	37.12	ug/kg	100
69)	2-hexanone	12.52	43	430686	202.71	ug/kg	100
70)	1,3-Dichloropropane	12.56	76	201854	39.22	ug/kg	100
71)	Dibromochloromethane	12.79	129	141834	38.67	ug/kg	100
72)	1,2-Dibromoethane	12.97	107	114302	39.15	ug/kg	100
73)	1-Chlorohexane	13.25	91	160237	38.54	ug/kg	100
74)	Chlorobenzene	13.42	112	367058	38.98	ug/kg	100
75)	1,1,1,2-Tetrachloroethane	13.47	131	127820	39.17	ug/kg	100
76)	Ethylbenzene	13.44	91	607008	39.03	ug/kg	100
77)	m,p-Xylene	13.55	106	472374	78.86	ug/kg	100
78)	o-Xylene	13.99	106	223812	39.45	ug/kg	100
79)	Styrene	14.00	104	408076	39.66	ug/kg	100
80)	Bromoform	14.30	173	88559	40.08	ug/kg	100
82)	Isopropylbenzene	14.33	105	447950	37.51	ug/kg	100
83)	Cyclohexanone	14.57	55	12517	199.47	ug/kg	100
85)	Bromobenzene	14.78	156	149942	37.74	ug/kg	100
86)	1,1,2,2-Tetrachloroethane	14.69	83	133264	38.34	ug/kg	100
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	48671	38.49	ug/kg	100
88)	1,2,3-Trichloropropane	14.79	75	126491	38.51	ug/kg	100
89)	n-Propylbenzene	14.75	91	628842	37.59	ug/kg	100
90)	2-Chlorotoluene	14.94	91	445552	38.40	ug/kg	100
91)	4-Chlorotoluene	15.04	91	400326	38.52	ug/kg	100

(#) = qualifier out of range (m) = manual integration
Y0037569.D VY2406AP9.M Fri Feb 05 10:29:45 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:37:08 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

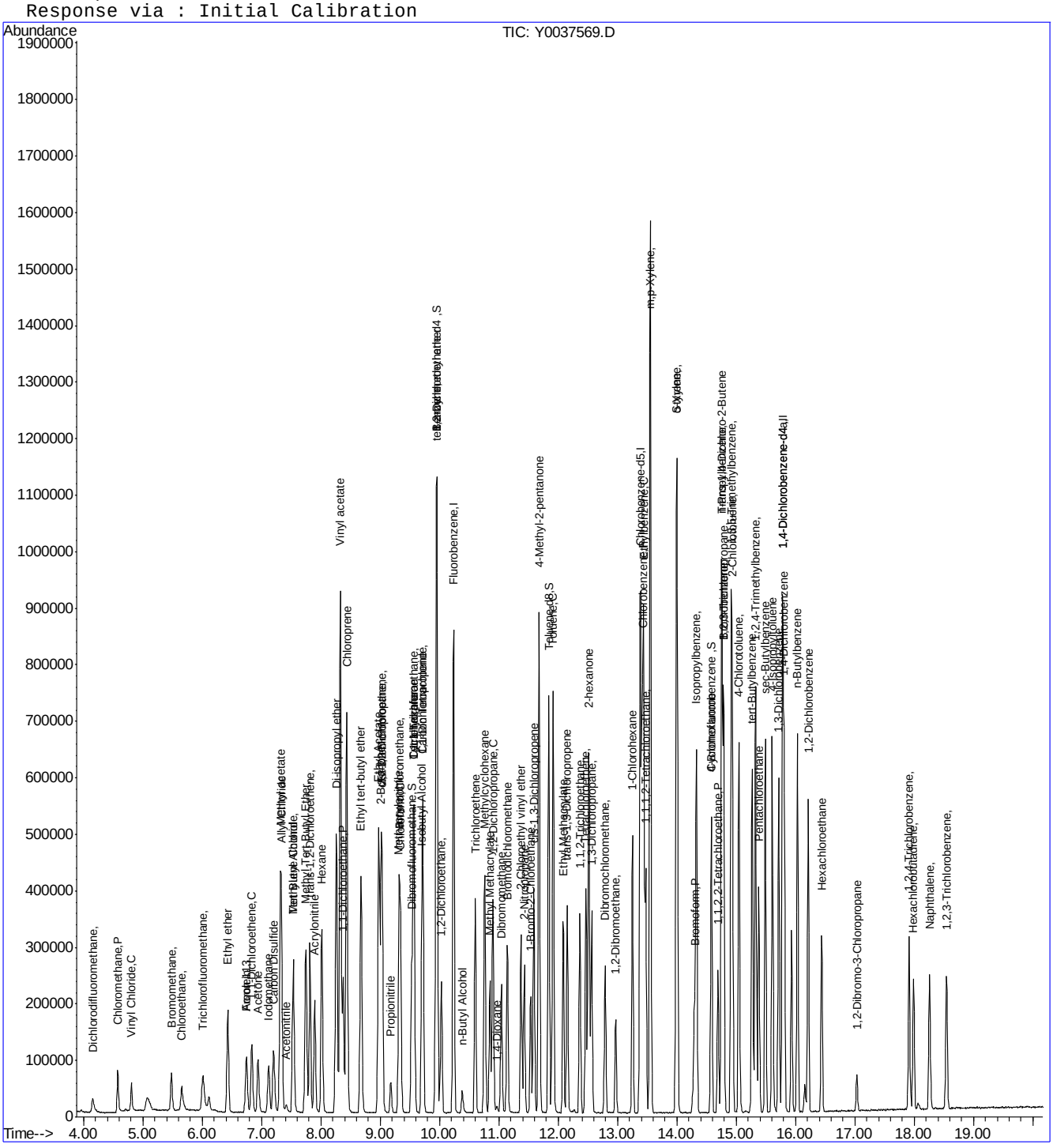
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	424804	38.61	ug/kg	100
93)	Pentachloroethane	15.38	167	83346	40.71	ug/kg	100
94)	sec-Butylbenzene	15.49	105	482471	38.27	ug/kg	100
95)	1,3-Dichlorobenzene	15.72	146	252618	38.97	ug/kg	100
96)	4-Isopropyltoluene	15.61	119	396296	38.50	ug/kg	100
97)	1,4-Dichlorobenzene	15.81	146	256985	38.66	ug/kg	100
98)	tert-Butylbenzene	15.27	91	212885	38.27	ug/kg	100
99)	n-Butylbenzene	16.03	91	381808	38.34	ug/kg	100
100)	1,2-Dichlorobenzene	16.21	146	228419	39.19	ug/kg	100
101)	1,2,4-Trimethylbenzene	15.32	105	435419	38.69	ug/kg	100
102)	Hexachloroethane	16.44	119	71162	39.30	ug/kg	100
103)	1,2-Dibromo-3-Chloropropan	17.03	75	18612	38.07	ug/kg	100
104)	1,2,4-Trichlorobenzene	17.91	180	115294	38.04	ug/kg	100
105)	Hexachlorobutadiene	17.99	225	55644	37.71	ug/kg	100
106)	Naphthalene	18.26	128	221958	37.94	ug/kg	100
107)	1,2,3-Trichlorobenzene	18.54	180	94527	37.79	ug/kg	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:37 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

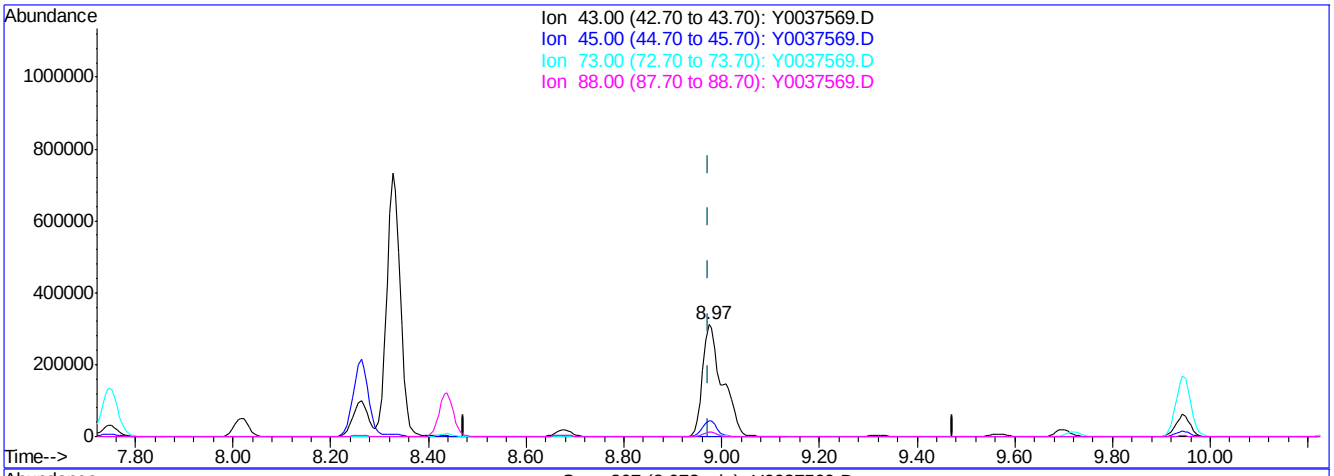


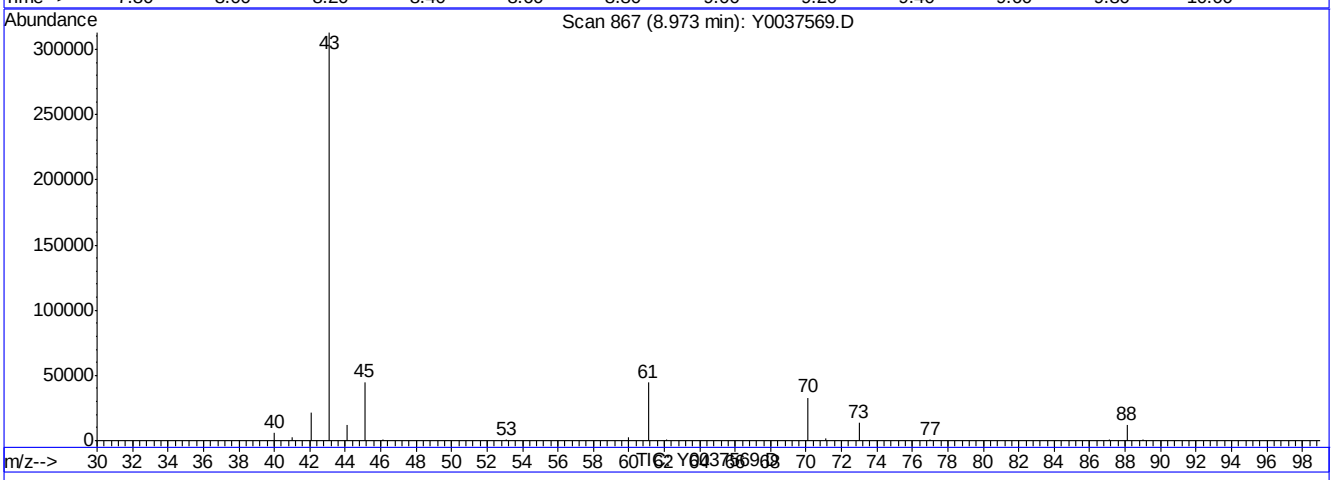
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:37 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (0.000) 268.50ug/kg

response 873844

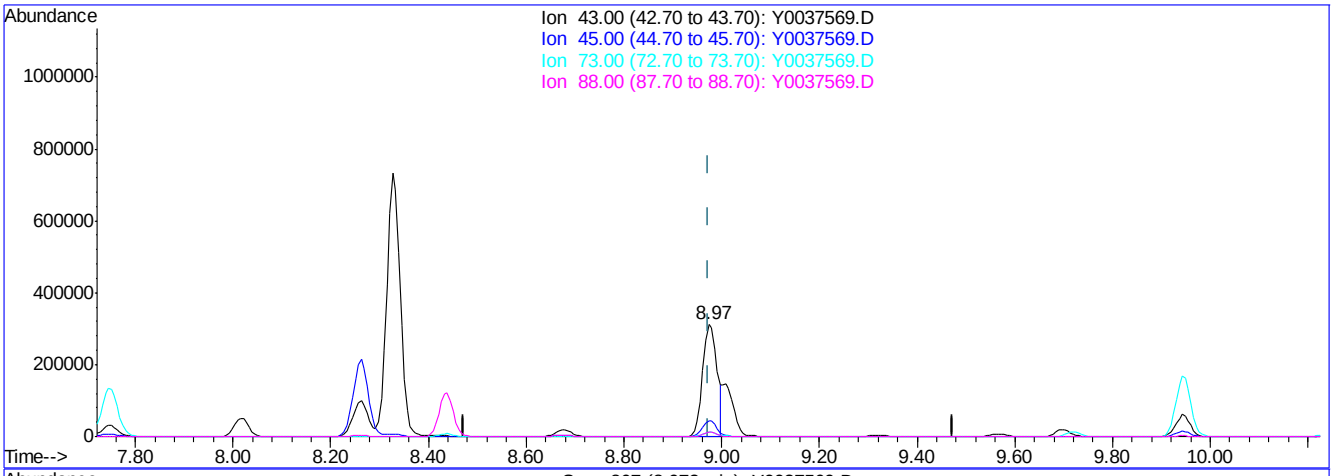
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.31
73.00	4.40	4.35
88.00	3.80	3.83

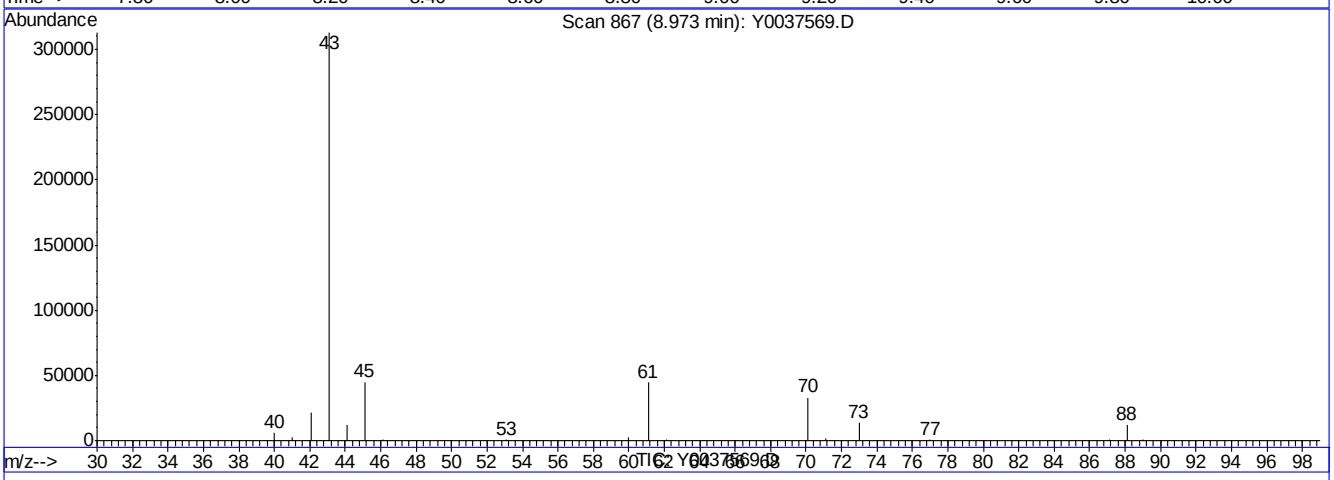
Y0037569.D VY2406AP9.M Thu Feb 04 09:37:14 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037569.D Vial: 5
Acq On : 3 Feb 2010 7:50 pm Operator: jennl
Sample : icc2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:37 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (0.000) 194.19ug/kg m

response 631980

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.31
73.00	4.40	4.35
88.00	3.80	3.83

Y0037569.D VY2406AP9.M Thu Feb 04 09:37:19 2010

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:28:11 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:28:00 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	769328	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	529811	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	228095	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	228095	50.00	mg/kg	0.00
System Monitoring Compounds						
40) Dibromofluoromethane	9.53	113	244457	67.12	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 134.24%#			
46) 1,2-Dichloroethane-d4	9.95	65	295138	67.45	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 134.90%#			
63) Toluene-d8	11.84	98	841918	68.71	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 137.42%			
84) 4-Bromofluorobenzene	14.58	95	298795	69.23	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 138.46%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.16	85	81615	67.69	ug/kg	89
3) Chloromethane	4.58	50	126188	65.28	ug/kg	97
4) Vinyl Chloride	4.81	62	98038	66.13	ug/kg	95
5) Bromomethane	5.48	94	83812	67.33	ug/kg	98
6) Chloroethane	5.65	64	66444	67.18	ug/kg	99
7) Trichlorofluoromethane	6.01	101	162804	66.28	ug/kg	99
9) Ethyl ether	6.43	59	214863	71.01	ug/kg	99
10) Acrolein	6.75	56	32618	337.05	ug/kg	90
11) 1,1-Dichloroethene	6.83	96	103672	71.04	ug/kg	97
12) Freon 113	6.74	101	85938	70.13	ug/kg	96
13) Acetone	6.94	43	243094	331.54	ug/kg	98
14) Iodomethane	7.12	142	217658	71.79	ug/kg	99
15) Methyl acetate	7.32	43	778321	337.69	ug/kg	99
16) Carbon Disulfide	7.20	76	374352	70.79	ug/kg	99
17) Allyl Chloride	7.34	41	349706	69.26	ug/kg	98
18) Acetonitrile	7.42	41	31820	161.50	ug/kg	81
19) Methylene Chloride	7.53	84	173358	68.99	ug/kg	98
20) Tert Butyl Alcohol	7.54	59	182584	697.11	ug/kg	97
21) trans-1,2-Dichloroethene	7.82	96	216469	71.12	ug/kg	98
22) Acrylonitrile	7.90	53	292041	341.78	ug/kg	99
23) Hexane	8.02	57	324721	73.16	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	580401	70.57	ug/kg	98
25) 1,1-Dichloroethane	8.37	63	446135	71.51	ug/kg	100
26) Vinyl acetate	8.33	43	2551239	355.06	ug/kg	100
27) Di-isopropyl ether	8.26	45	871964	72.97	ug/kg	100
28) Chloroprene	8.43	53	828924	68.64	ug/kg	99
29) Ethyl tert-butyl ether	8.67	59	718505	70.67	ug/kg	99
30) Ethyl Acetate	8.97	43	1184988m	367.43	ug/kg	
31) 2,2-Dichloropropane	9.01	77	216375	71.82	ug/kg	97
32) cis-1,2-Dichloroethene	9.03	96	241658	71.09	ug/kg	99
33) 2-Butanone	9.01	72	108572	337.36	ug/kg	94
34) Propionitrile	9.18	54	104222	333.79	ug/kg	98
35) Bromochloromethane	9.32	128	130542	72.55	ug/kg	97
36) Methacrylonitrile	9.31	41	82558	68.19	ug/kg	94

(#) = qualifier out of range (m) = manual integration
Y0037570.D VY2406AP9.M Fri Feb 05 10:29:47 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:28:11 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:28:00 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	Chloroform	9.34	83	432017	71.58 ug/kg	99
38)	Tetrahydrofuran	9.57	42	68444	69.89 ug/kg	94
39)	1,1,1-Trichloroethane	9.56	97	297350	71.88 ug/kg	96
41)	Cyclohexane	9.57	56	297739	70.04 ug/kg	98
42)	Isobutyl Alcohol	9.70	43	81259	717.52 ug/kg	92
43)	1,1-Dichloropropene	9.72	75	303133	72.63 ug/kg	97
44)	n-Butyl Alcohol	10.38	56	46637	739.72 ug/kg	99
45)	Carbon Tetrachloride	9.71	117	282246	71.61 ug/kg	96
47)	Benzene	9.96	78	981487	73.71 ug/kg	97
48)	1,2-Dichloroethane	10.03	62	336123	69.38 ug/kg	98
49)	tert-amyl methyl ether	9.94	73	659072	72.43 ug/kg	98
50)	Trichloroethene	10.60	95	227372	71.90 ug/kg	97
51)	1-Bromo-2-Chloroethane	11.54	63	319929	70.25 ug/kg	100
52)	Methylcyclohexane	10.76	83	316967	72.95 ug/kg	95
53)	Methyl Methacrylate	10.85	41	215289	68.30 ug/kg	100
54)	1,2-Dichloropropane	10.90	63	257130	71.91 ug/kg	99
55)	Dibromomethane	11.04	93	148297	69.66 ug/kg	98
56)	1,4-Dioxane	10.96	88	27651	1686.14 ug/kg	93
57)	Bromodichloromethane	11.14	83	346291	71.68 ug/kg	97
58)	2-Nitropropane	11.43	41	297235	337.70 ug/kg	96
59)	2-Chloroethyl vinyl ether	11.37	63	242197	349.13 ug/kg	97
60)	4-Methyl-2-pentanone	11.68	100	151248	349.49 ug/kg#	89
61)	cis-1,3-Dichloropropene	11.59	75	413355	71.91 ug/kg	98
64)	Toluene	11.91	92	588814	73.44 ug/kg	99
65)	Ethyl Methacrylate	12.08	69	308263	69.58 ug/kg	99
66)	trans-1,3-Dichloropropene	12.15	75	349412	71.28 ug/kg	99
67)	1,1,2-Trichloroethane	12.36	83	172524	70.62 ug/kg	96
68)	Tetrachloroethene	12.46	164	177212	73.98 ug/kg	99
69)	2-hexanone	12.52	43	762794	353.09 ug/kg	98
70)	1,3-Dichloropropane	12.56	76	354586	70.04 ug/kg	99
71)	Dibromochloromethane	12.79	129	255847	71.92 ug/kg	98
72)	1,2-Dibromoethane	12.97	107	201457	70.28 ug/kg	98
73)	1-Chlorohexane	13.25	91	296202	73.71 ug/kg	97
74)	Chlorobenzene	13.42	112	656821	71.35 ug/kg	98
75)	1,1,1,2-Tetrachloroethane	13.47	131	224542	70.04 ug/kg	96
76)	Ethylbenzene	13.44	91	1104294	72.54 ug/kg	98
77)	m,p-Xylene	13.55	106	867016	146.37 ug/kg	100
78)	o-Xylene	13.99	106	405819	72.30 ug/kg	98
79)	Styrene	14.00	104	748740	73.16 ug/kg	99
80)	Bromoform	14.30	173	154272	69.46 ug/kg	98
82)	Isopropylbenzene	14.33	105	807322	75.39 ug/kg	100
83)	Cyclohexanone	14.58	55	23304	389.39 ug/kg#	81
85)	Bromobenzene	14.78	156	267451	74.61 ug/kg	99
86)	1,1,2,2-Tetrachloroethane	14.69	83	228395	71.69 ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	84057	72.24 ug/kg	98
88)	1,2,3-Trichloropropane	14.79	75	213835	70.71 ug/kg	95
89)	n-Propylbenzene	14.75	91	1137450	75.66 ug/kg	99
90)	2-Chlorotoluene	14.94	91	782110	73.43 ug/kg	100
91)	4-Chlorotoluene	15.04	91	691824	72.29 ug/kg	100

(#) = qualifier out of range (m) = manual integration
Y0037570.D VY2406AP9.M Fri Feb 05 10:29:48 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:28:11 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:28:00 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

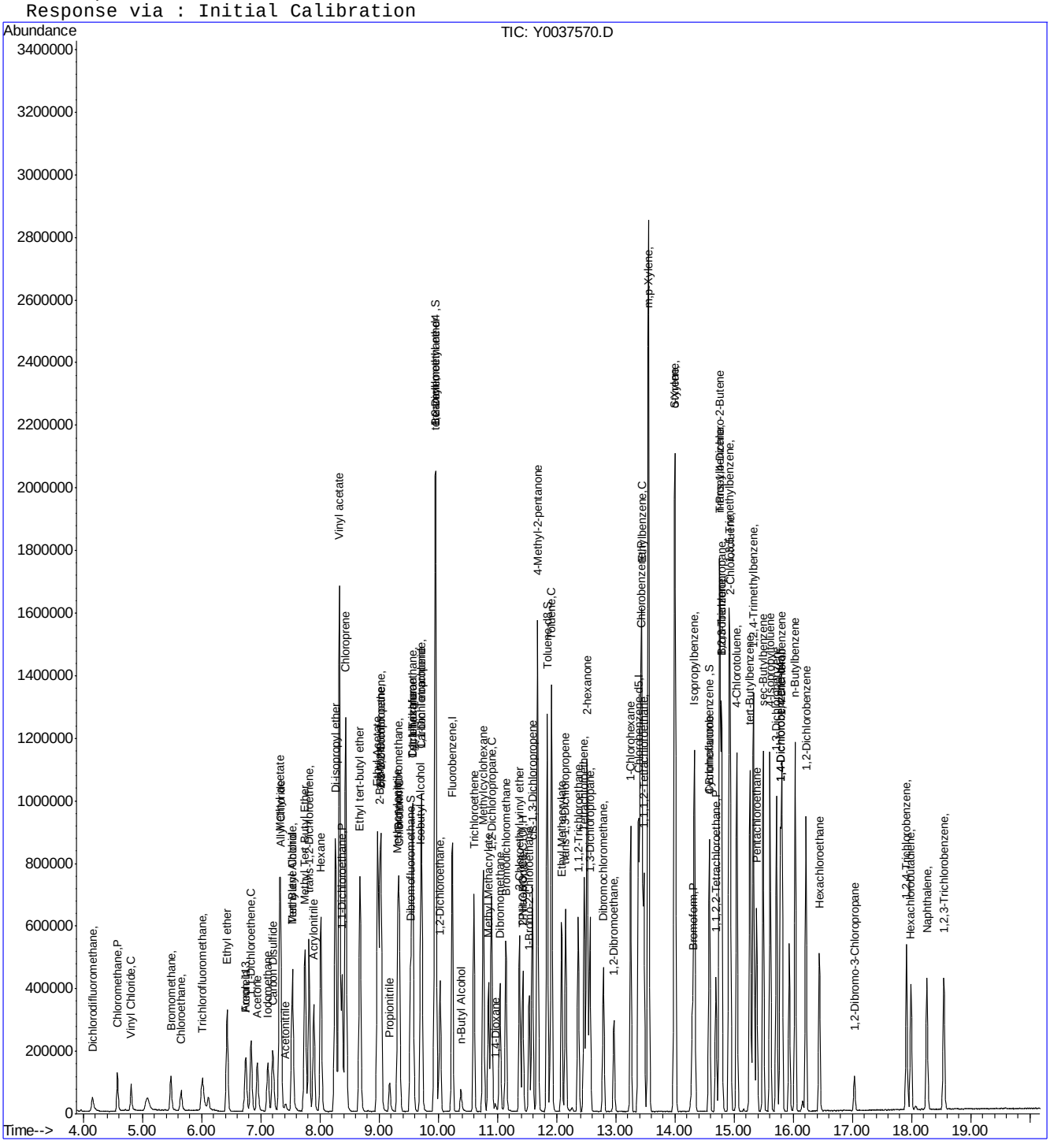
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	746351	73.49	ug/kg	99
93)	Pentachloroethane	15.38	167	134819	67.66	ug/kg	90
94)	sec-Butylbenzene	15.49	105	842199	73.02	ug/kg	98
95)	1,3-Dichlorobenzene	15.72	146	428479	70.95	ug/kg	97
96)	4-Isopropyltoluene	15.61	119	683875	72.18	ug/kg	98
97)	1,4-Dichlorobenzene	15.81	146	438096	71.31	ug/kg	97
98)	tert-Butylbenzene	15.27	91	368582	72.42	ug/kg	99
99)	n-Butylbenzene	16.03	91	664420	72.79	ug/kg	98
100)	1,2-Dichlorobenzene	16.21	146	384281	70.37	ug/kg	98
101)	1,2,4-Trimethylbenzene	15.32	105	757616	72.78	ug/kg	99
102)	Hexachloroethane	16.44	119	114822	67.49	ug/kg	96
103)	1,2-Dibromo-3-Chloropropan	17.03	75	31614	71.05	ug/kg	99
104)	1,2,4-Trichlorobenzene	17.92	180	196629	71.34	ug/kg	98
105)	Hexachlorobutadiene	17.99	225	96426	72.49	ug/kg	94
106)	Naphthalene	18.26	128	393512	74.16	ug/kg	98
107)	1,2,3-Trichlorobenzene	18.54	180	163156	72.20	ug/kg	97
109)	TPH-GRO (C6-C10)	11.41	TIC	90215369m	3755.98	mg/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:29 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

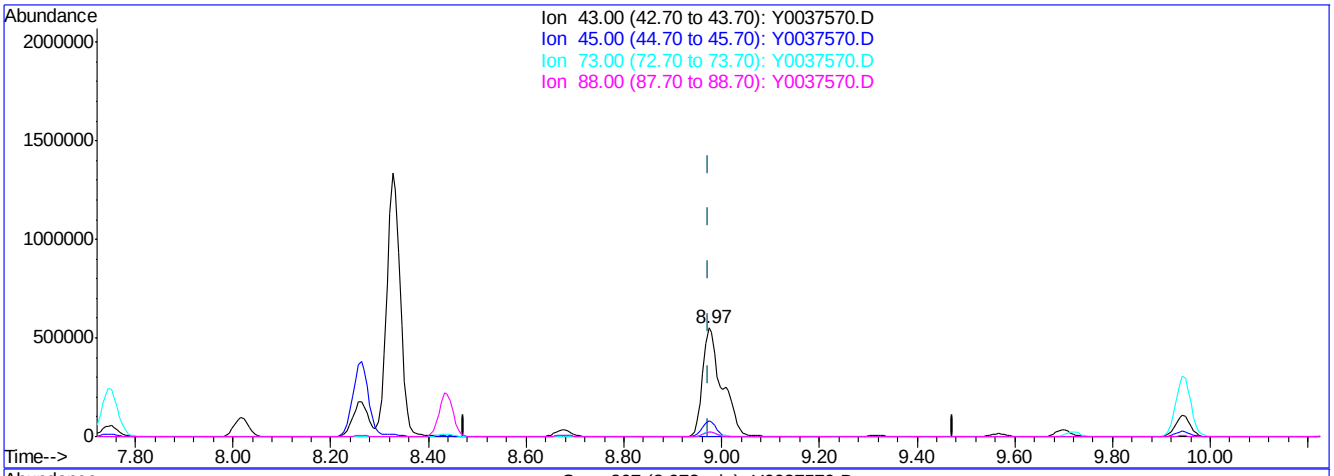


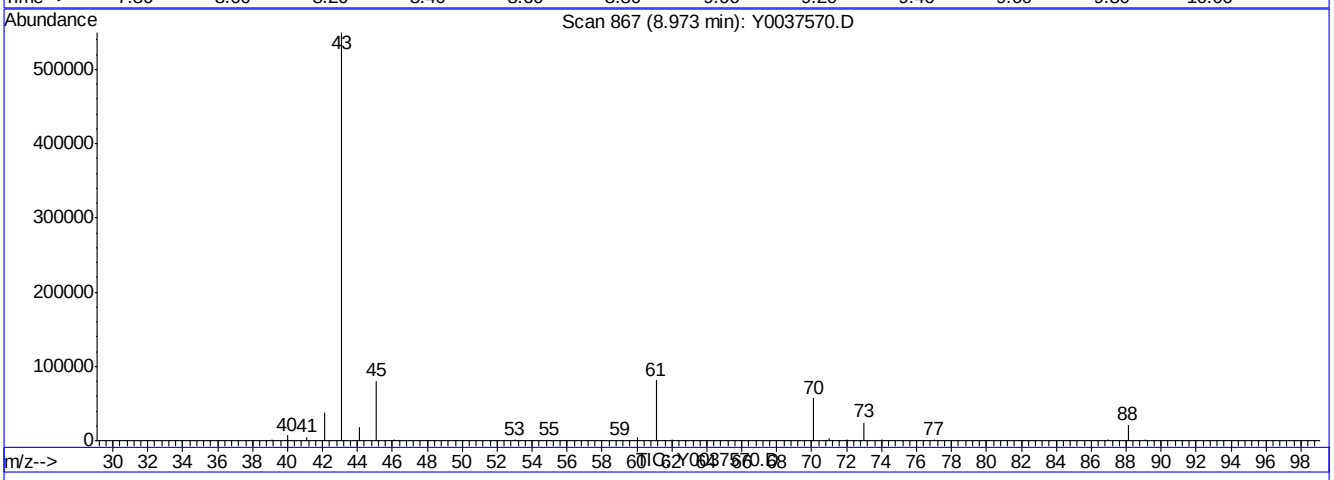
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:28 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:28:00 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 470.72ug/kg

response 1518125

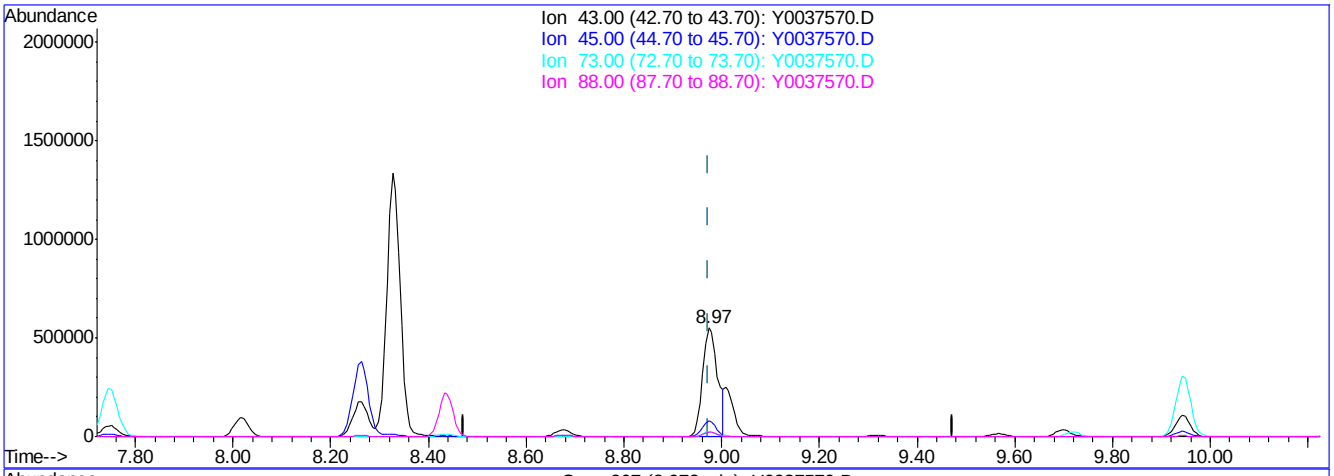
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.56
73.00	4.40	4.44
88.00	3.80	3.80

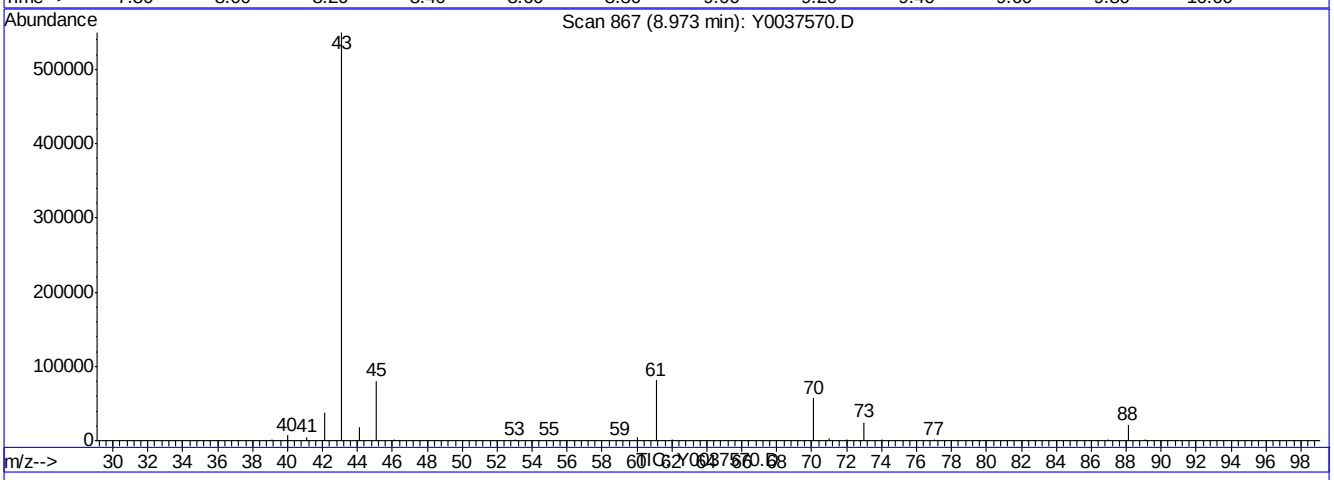
Y0037570.D VY2406AP9.M Thu Feb 04 09:28:54 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037570.D Vial: 6
Acq On : 3 Feb 2010 8:20 pm Operator: jennl
Sample : ic2406-70 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:29 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:28:00 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 367.43ug/kg m

response 1184988

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.56
73.00	4.40	4.44
88.00	3.80	3.80

Y0037570.D VY2406AP9.M Thu Feb 04 09:29:08 2010

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:31:46 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:30:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	761056	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	512255	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	213082	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	213082	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	329908	94.22	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 188.44%#			
46) 1,2-Dichloroethane-d4	9.95	65	402140	95.05	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 190.10%#			
63) Toluene-d8	11.84	98	1140948	97.68	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 195.36%#			
84) 4-Bromofluorobenzene	14.58	95	385321	96.71	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 193.42%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	110774	95.24	ug/kg	99
3) Chloromethane	4.58	50	171220	91.45	ug/kg	99
4) Vinyl Chloride	4.81	62	132388	91.80	ug/kg	95
5) Bromomethane	5.48	94	115348	93.84	ug/kg	98
6) Chloroethane	5.65	64	91334	95.12	ug/kg	99
7) Trichlorofluoromethane	6.01	101	216739	90.84	ug/kg	99
9) Ethyl ether	6.43	59	298722	99.47	ug/kg	98
10) Acrolein	6.75	56	46180	490.78	ug/kg	93
11) 1,1-Dichloroethene	6.83	96	140845	95.01	ug/kg	96
12) Freon 113	6.75	101	114908	92.73	ug/kg	97
13) Acetone	6.94	43	335346	461.40	ug/kg	98
14) Iodomethane	7.12	142	300048	98.24	ug/kg	99
15) Methyl acetate	7.32	43	1072953	475.66	ug/kg	100
16) Carbon Disulfide	7.20	76	506593	94.70	ug/kg	99
17) Allyl Chloride	7.34	41	486606	98.69	ug/kg	98
18) Acetonitrile	7.42	41	44745	235.37	ug/kg	90
19) Methylene Chloride	7.53	84	234595	92.71	ug/kg	97
20) Tert Butyl Alcohol	7.54	59	258671	1007.02	ug/kg	96
21) trans-1,2-Dichloroethene	7.82	96	300950	98.28	ug/kg	99
22) Acrylonitrile	7.90	53	405522	480.96	ug/kg	98
23) Hexane	8.02	57	428036	94.37	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	806530	98.77	ug/kg	98
25) 1,1-Dichloroethane	8.37	63	615670	97.99	ug/kg	99
26) Vinyl acetate	8.33	43	3571033	502.90	ug/kg	99
27) Di-isopropyl ether	8.26	45	1203003	99.34	ug/kg	99
28) Chloroprene	8.44	53	1168100	99.29	ug/kg	98
29) Ethyl tert-butyl ether	8.67	59	999305	98.96	ug/kg	99
30) Ethyl Acetate	8.97	43	1640168m	507.85	ug/kg	
31) 2,2-Dichloropropane	9.02	77	291058	94.64	ug/kg	100
32) cis-1,2-Dichloroethene	9.03	96	334259	97.92	ug/kg	99
33) 2-Butanone	9.01	72	154243	485.44	ug/kg#	81
34) Propionitrile	9.18	54	148780	488.36	ug/kg	99
35) Bromochloromethane	9.32	128	180166	98.85	ug/kg	96
36) Methacrylonitrile	9.31	41	113671	95.91	ug/kg	97

(#) = qualifier out of range (m) = manual integration
Y0037571.D VY2406AP9.M Fri Feb 05 10:29:51 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:31:46 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:30:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Chloroform	9.34	83	593296	97.70	ug/kg	99
38)	Tetrahydrofuran	9.57	42	90176	92.09	ug/kg	92
39)	1,1,1-Trichloroethane	9.56	97	405431	96.46	ug/kg	96
41)	Cyclohexane	9.57	56	401234	94.30	ug/kg	99
42)	Isobutyl Alcohol	9.70	43	117713	1067.40	ug/kg	90
43)	1,1-Dichloropropene	9.72	75	413033	96.69	ug/kg	96
44)	n-Butyl Alcohol	10.38	56	69719	1135.09	ug/kg	100
45)	Carbon Tetrachloride	9.71	117	381275	95.80	ug/kg	98
47)	Benzene	9.96	78	1367414	101.25	ug/kg	97
48)	1,2-Dichloroethane	10.03	62	465994	97.04	ug/kg	98
49)	tert-amyl methyl ether	9.95	73	915545	101.10	ug/kg	95
50)	Trichloroethene	10.60	95	309846	96.85	ug/kg	98
51)	1-Bromo-2-Chloroethane	11.54	63	436862	96.37	ug/kg	99
52)	Methylcyclohexane	10.76	83	415561	93.45	ug/kg	97
53)	Methyl Methacrylate	10.85	41	300312	98.31	ug/kg	99
54)	1,2-Dichloropropane	10.90	63	347244	96.17	ug/kg	99
55)	Dibromomethane	11.04	93	207656	98.31	ug/kg	97
56)	1,4-Dioxane	10.97	88	40517	2445.33	ug/kg	94
57)	Bromodichloromethane	11.14	83	473484	97.97	ug/kg	99
58)	2-Nitropropane	11.43	41	409943	476.40	ug/kg	96
59)	2-Chloroethyl vinyl ether	11.37	63	339669	498.54	ug/kg	98
60)	4-Methyl-2-pentanone	11.68	100	212280	508.75	ug/kg#	91
61)	cis-1,3-Dichloropropene	11.59	75	566017	98.45	ug/kg	97
64)	Toluene	11.91	92	814484	102.81	ug/kg	98
65)	Ethyl Methacrylate	12.08	69	433776	104.51	ug/kg	98
66)	trans-1,3-Dichloropropene	12.15	75	480454	101.10	ug/kg	99
67)	1,1,2-Trichloroethane	12.36	83	235392	99.37	ug/kg	97
68)	Tetrachloroethene	12.46	164	238755	98.52	ug/kg	99
69)	2-hexanone	12.52	43	1064026	518.44	ug/kg	96
70)	1,3-Dichloropropane	12.56	76	486880	99.72	ug/kg	99
71)	Dibromochloromethane	12.79	129	352362	101.37	ug/kg	99
72)	1,2-Dibromoethane	12.97	107	272980	97.73	ug/kg	99
73)	1-Chlorohexane	13.25	91	387698	96.20	ug/kg	98
74)	Chlorobenzene	13.42	112	892039	99.68	ug/kg	99
75)	1,1,1,2-Tetrachloroethane	13.47	131	310386	100.04	ug/kg	96
76)	Ethylbenzene	13.44	91	1483343	99.18	ug/kg	98
77)	m,p-Xylene	13.55	106	1139466	196.31	ug/kg	98
78)	o-Xylene	13.99	106	541924	98.70	ug/kg	99
79)	Styrene	14.00	104	1006828	100.58	ug/kg	99
80)	Bromoform	14.30	173	207274	97.46	ug/kg	98
82)	Isopropylbenzene	14.33	105	1051213	101.62	ug/kg	99
83)	Cyclohexanone	14.58	55	32617	574.82	ug/kg	91
85)	Bromobenzene	14.78	156	360760	104.78	ug/kg	97
86)	1,1,2,2-Tetrachloroethane	14.69	83	300523	99.69	ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	114169	104.46	ug/kg	99
88)	1,2,3-Trichloropropane	14.79	75	290986	103.15	ug/kg	99
89)	n-Propylbenzene	14.75	91	1484707	102.04	ug/kg	100
90)	2-Chlorotoluene	14.94	91	1035385	102.06	ug/kg	99
91)	4-Chlorotoluene	15.05	91	902737	99.90	ug/kg	100

(#) = qualifier out of range (m) = manual integration
Y0037571.D VY2406AP9.M Fri Feb 05 10:29:52 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:31:46 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:30:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

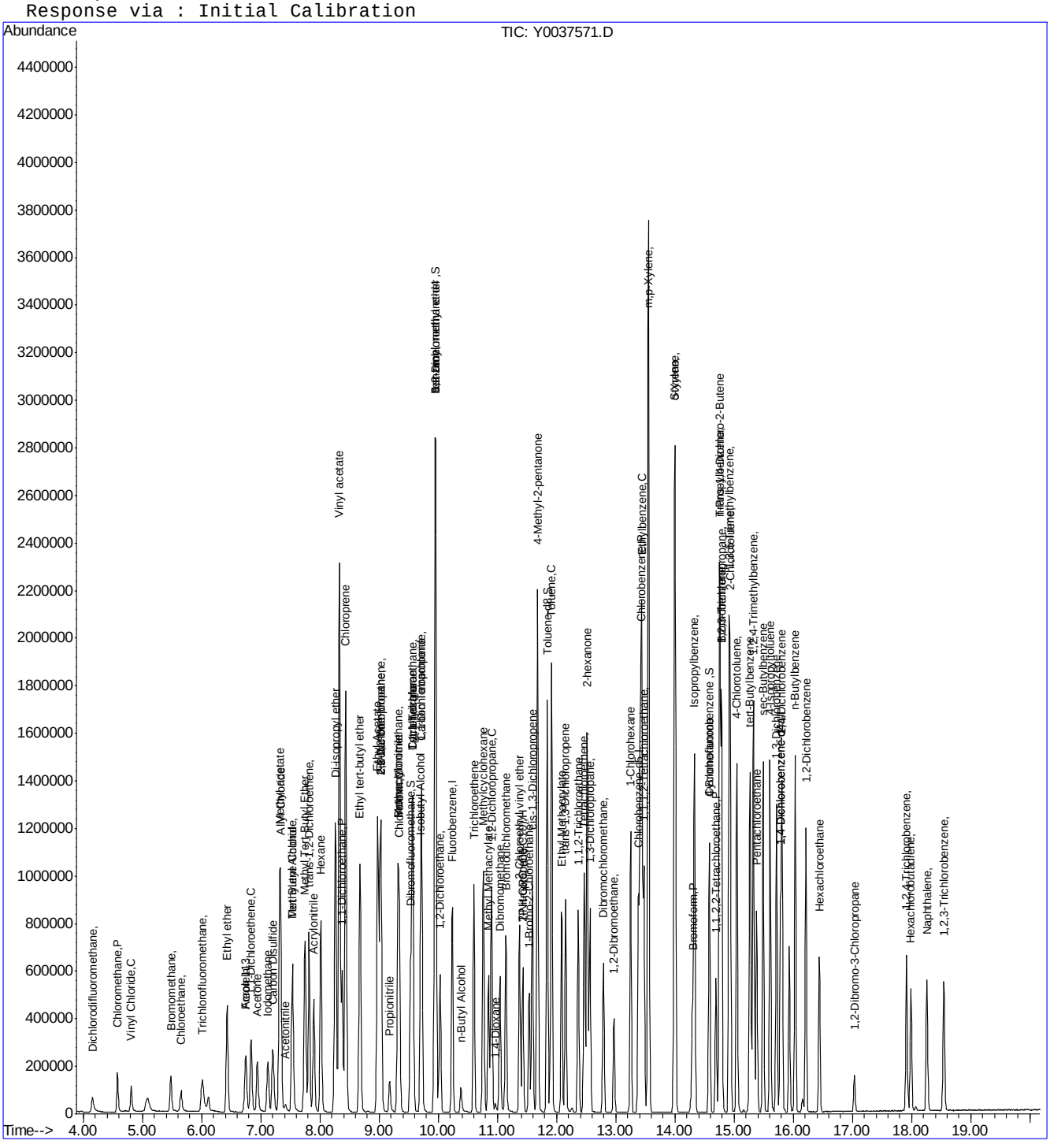
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	959652	99.40	ug/kg	100
93)	Pentachloroethane	15.38	167	178852	99.13	ug/kg	95
94)	sec-Butylbenzene	15.49	105	1075603	96.81	ug/kg	98
95)	1,3-Dichlorobenzene	15.72	146	554165	97.35	ug/kg	98
96)	4-Isopropyltoluene	15.61	119	878899	97.09	ug/kg	99
97)	1,4-Dichlorobenzene	15.81	146	559604	95.44	ug/kg	98
98)	tert-Butylbenzene	15.27	91	482646	99.34	ug/kg	99
99)	n-Butylbenzene	16.03	91	843709	96.12	ug/kg	98
100)	1,2-Dichlorobenzene	16.21	146	497773	97.28	ug/kg	99
101)	1,2,4-Trimethylbenzene	15.32	105	986279	99.51	ug/kg	100
102)	Hexachloroethane	16.44	119	147236	93.54	ug/kg	96
103)	1,2-Dibromo-3-Chloropropan	17.03	75	42940	102.12	ug/kg	89
104)	1,2,4-Trichlorobenzene	17.91	180	246343	94.18	ug/kg	97
105)	Hexachlorobutadiene	17.99	225	118870	92.08	ug/kg	92
106)	Naphthalene	18.26	128	523568	104.14	ug/kg	100
107)	1,2,3-Trichlorobenzene	18.54	180	213803	99.58	ug/kg	96
109)	TPH-GRO (C6-C10)	11.41	TIC	122252542m	5565.47	mg/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037571.D VY2406AP9.M Fri Feb 05 10:29:52 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:31 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

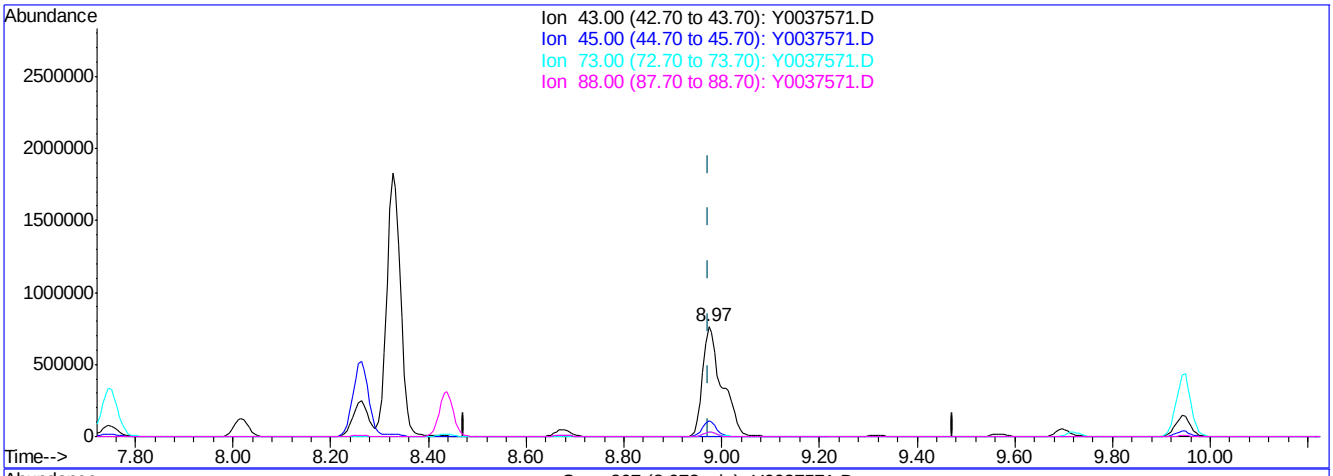


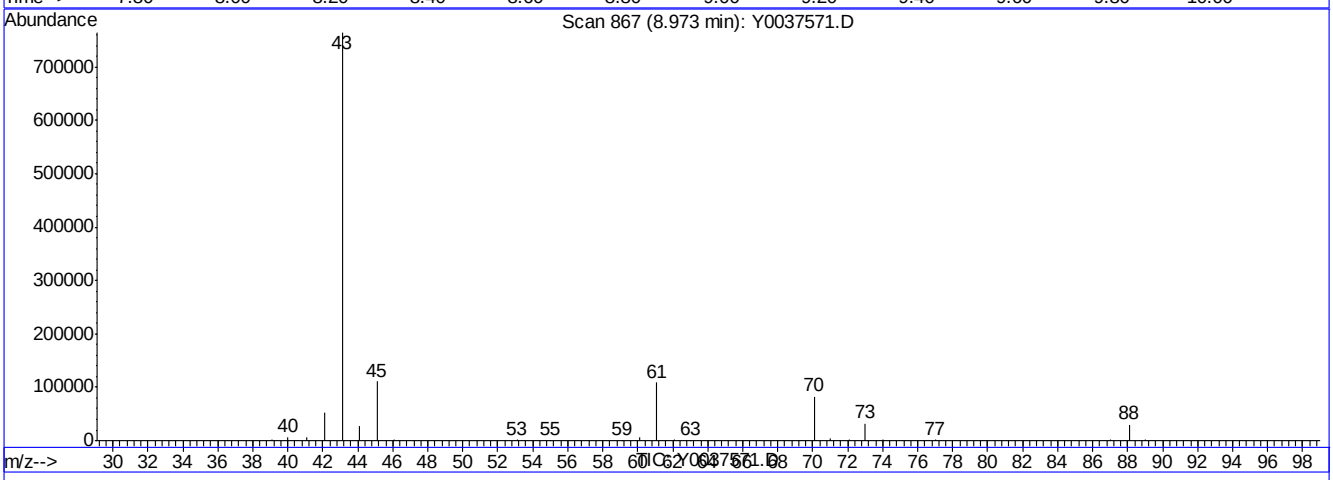
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:31 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:30:03 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 649.85ug/kg

response 2098780

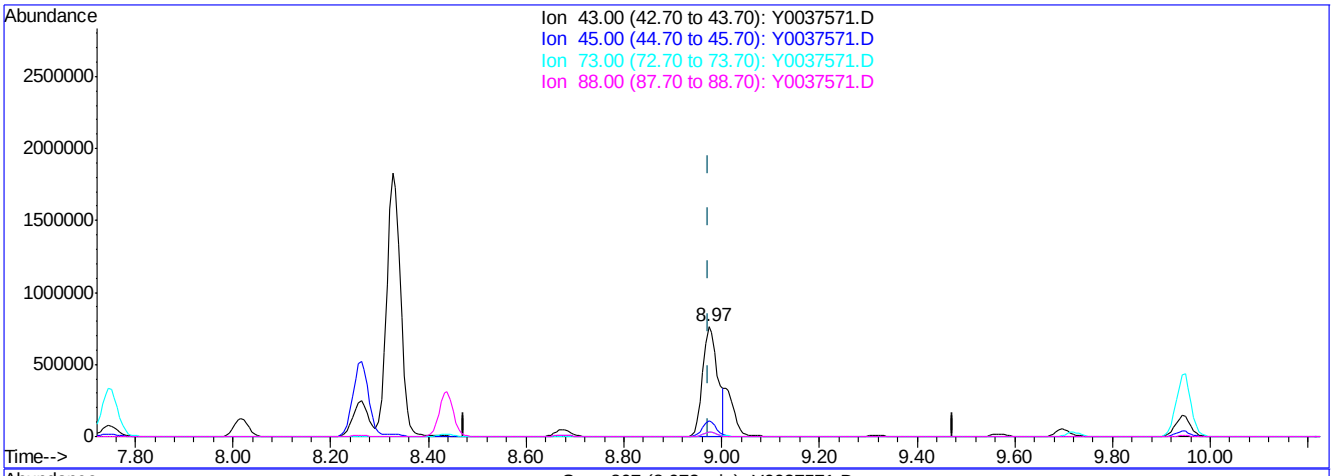
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.56
73.00	4.40	4.19
88.00	3.80	3.89

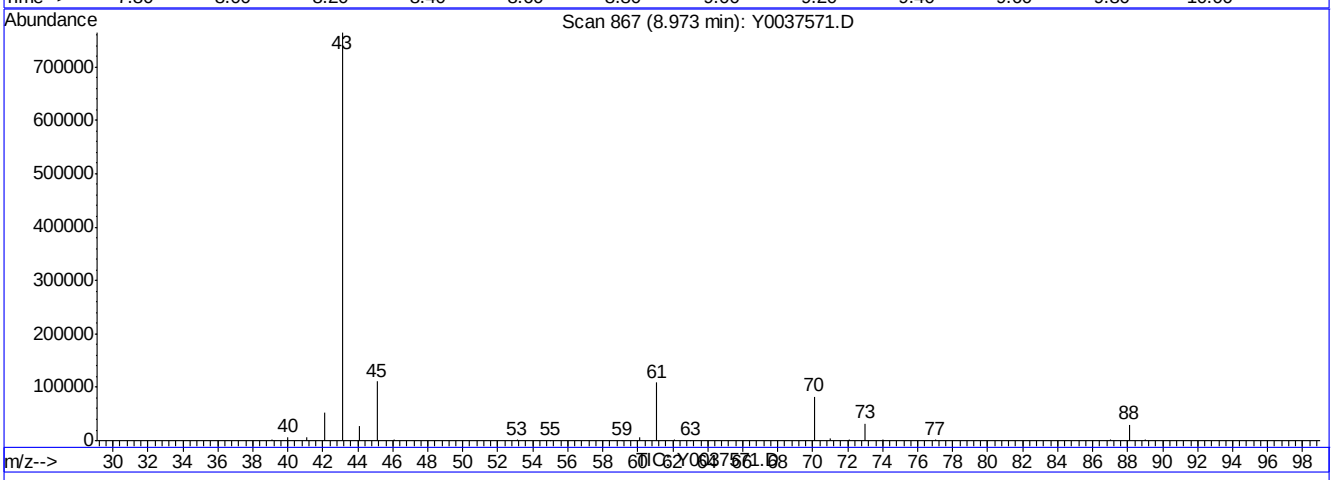
Y0037571.D VY2406AP9.M Thu Feb 04 09:31:53 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037571.D Vial: 7
Acq On : 3 Feb 2010 8:50 pm Operator: jennl
Sample : ic2406-100 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:31 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:30:03 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 507.85ug/kg m

response 1640168

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.56
73.00	4.40	4.19
88.00	3.80	3.89

Y0037571.D VY2406AP9.M Thu Feb 04 09:31:59 2010

Y0037572.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 02/05/10 10:32

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:01 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	748495	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	462059	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	169924	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	169924	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	691463	201.32	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 402.64%#			
46) 1,2-Dichloroethane-d4	9.95	65	828810	201.70	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 403.40%#			
63) Toluene-d8	11.84	98	2310998	219.63	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 439.26%#			
84) 4-Bromofluorobenzene	14.58	95	705669	221.52	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 443.04%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	231577	209.02	ug/kg	97
3) Chloromethane	4.58	50	330937	180.37	ug/kg	99
4) Vinyl Chloride	4.81	62	267502	188.26	ug/kg	97
5) Bromomethane	5.48	94	233585	193.88	ug/kg	96
6) Chloroethane	5.65	64	185015	196.62	ug/kg	99
7) Trichlorofluoromethane	6.01	101	445418	194.11	ug/kg	97
9) Ethyl ether	6.43	59	615355	208.18	ug/kg	98
10) Acrolein	6.75	56	91571	998.78	ug/kg	93
11) 1,1-Dichloroethene	6.83	96	265709	181.04	ug/kg	95
12) Freon 113	6.75	101	224128	185.82	ug/kg	99
13) Acetone	6.94	43	667378	921.58	ug/kg	98
14) Iodomethane	7.12	142	581952	192.34	ug/kg	99
15) Methyl acetate	7.32	43	2189658	992.00	ug/kg	99
16) Carbon Disulfide	7.20	76	967782	184.17	ug/kg	99
17) Allyl Chloride	7.34	41	987611	202.45	ug/kg	99
18) Acetonitrile	7.42	41	92658	491.95	ug/kg	89
19) Methylene Chloride	7.53	84	456338	181.72	ug/kg	98
20) Tert Butyl Alcohol	7.54	59	531885	2098.89	ug/kg	95
21) trans-1,2-Dichloroethene	7.82	96	600646	198.94	ug/kg	97
22) Acrylonitrile	7.90	53	853966	1038.55	ug/kg	98
23) Hexane	8.02	57	861299	193.62	ug/kg	97
24) Methyl Tert Butyl Ether	7.75	73	1586922	198.48	ug/kg	97
25) 1,1-Dichloroethane	8.37	63	1272385	204.96	ug/kg	98
26) Vinyl acetate	8.33	43	7109271	1017.25	ug/kg	98
27) Di-isopropyl ether	8.26	45	2408468	201.58	ug/kg	99
28) Chloroprene	8.44	53	2341996	203.34	ug/kg	97
29) Ethyl tert-butyl ether	8.67	59	1985138	200.28	ug/kg	99
30) Ethyl Acetate	8.97	43	3317771m	1046.72	ug/kg	
31) 2,2-Dichloropropane	9.02	77	566124	186.72	ug/kg	98
32) cis-1,2-Dichloroethene	9.03	96	709743	212.75	ug/kg	98
33) 2-Butanone	9.01	72	330158	1053.53	ug/kg#	76
34) Propionitrile	9.18	54	312722	1046.41	ug/kg	99
35) Bromochloromethane	9.32	128	374079	211.49	ug/kg	94
36) Methacrylonitrile	9.31	41	233322	201.09	ug/kg	96

(#) = qualifier out of range (m) = manual integration
Y0037572.D VY2406AP9.M Fri Feb 05 10:29:55 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:01 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Chloroform	9.34	83	1202489	200.49 ug/kg	99
38) Tetrahydrofuran	9.57	42	175093	182.37 ug/kg	96
39) 1,1,1-Trichloroethane	9.56	97	799523	192.67 ug/kg	93
41) Cyclohexane	9.57	56	778297	188.16 ug/kg	98
42) Isobutyl Alcohol	9.70	43	249485	2327.60 ug/kg	90
43) 1,1-Dichloropropene	9.72	75	832741	198.76 ug/kg	94
44) n-Butyl Alcohol	10.38	56	151096	2542.60 ug/kg	97
45) Carbon Tetrachloride	9.71	117	752983	192.26 ug/kg	97
47) Benzene	9.96	78	2748041	205.56 ug/kg	97
48) 1,2-Dichloroethane	10.03	62	946547	201.64 ug/kg	98
49) tert-amyl methyl ether	9.94	73	1819360	205.33 ug/kg	96
50) Trichloroethene	10.60	95	613792	193.65 ug/kg	98
51) 1-Bromo-2-Chloroethane	11.54	63	836008	188.59 ug/kg	99
52) Methylcyclohexane	10.76	83	800280	184.86 ug/kg	98
53) Methyl Methacrylate	10.85	41	588436	197.15 ug/kg	99
54) 1,2-Dichloropropane	10.90	63	681807	192.37 ug/kg	96
55) Dibromomethane	11.04	93	403198	193.28 ug/kg	99
56) 1,4-Dioxane	10.97	88	81240	4891.27 ug/kg	94
57) Bromodichloromethane	11.14	83	923940	193.83 ug/kg	98
58) 2-Nitropropane	11.43	41	803415	953.11 ug/kg	94
59) 2-Chloroethyl vinyl ether	11.38	63	713284	1074.13 ug/kg	97
60) 4-Methyl-2-pentanone	11.68	100	428858	1064.54 ug/kg#	85
61) cis-1,3-Dichloropropene	11.59	75	1106678	195.65 ug/kg	94
64) Toluene	11.91	92	1585679	219.90 ug/kg	98
65) Ethyl Methacrylate	12.08	69	863514	232.40 ug/kg	98
66) trans-1,3-Dichloropropene	12.15	75	918894	213.21 ug/kg	97
67) 1,1,2-Trichloroethane	12.36	83	445760	207.11 ug/kg	96
68) Tetrachloroethene	12.46	164	453689	206.27 ug/kg	98
69) 2-hexanone	12.52	43	2081915	1134.13 ug/kg	95
70) 1,3-Dichloropropane	12.56	76	940655	213.34 ug/kg	98
71) Dibromochloromethane	12.79	129	654815	207.14 ug/kg	98
72) 1,2-Dibromoethane	12.97	107	512029	203.68 ug/kg	100
73) 1-Chlorohexane	13.25	91	709503	196.65 ug/kg	96
74) Chlorobenzene	13.42	112	1650653	203.00 ug/kg	99
75) 1,1,1,2-Tetrachloroethane	13.47	131	577295	204.87 ug/kg	97
76) Ethylbenzene	13.44	91	2668088	197.50 ug/kg	98
77) m,p-Xylene	13.55	106	2055457	392.82 ug/kg	98
78) o-Xylene	13.99	106	955336	193.22 ug/kg	99
79) Styrene	14.01	104	1765558	196.29 ug/kg	96
80) Bromoform	14.30	173	372107	194.75 ug/kg	98
82) Isopropylbenzene	14.33	105	1817743	218.94 ug/kg	99
83) Cyclohexanone	14.58	55	65044	1451.51 ug/kg	94
85) Bromobenzene	14.78	156	633039	229.24 ug/kg	97
86) 1,1,2,2-Tetrachloroethane	14.69	83	525992	218.53 ug/kg	99
87) Trans-1,4-Dichloro-2-Buten	14.75	53	200113	226.51 ug/kg	98
88) 1,2,3-Trichloropropane	14.79	75	524370	230.92 ug/kg	99
89) n-Propylbenzene	14.75	91	2499191	213.51 ug/kg	99
90) 2-Chlorotoluene	14.94	91	1743610	213.89 ug/kg	99
91) 4-Chlorotoluene	15.04	91	1535278	211.80 ug/kg	100

(#) = qualifier out of range (m) = manual integration
Y0037572.D VY2406AP9.M Fri Feb 05 10:29:55 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:33:01 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

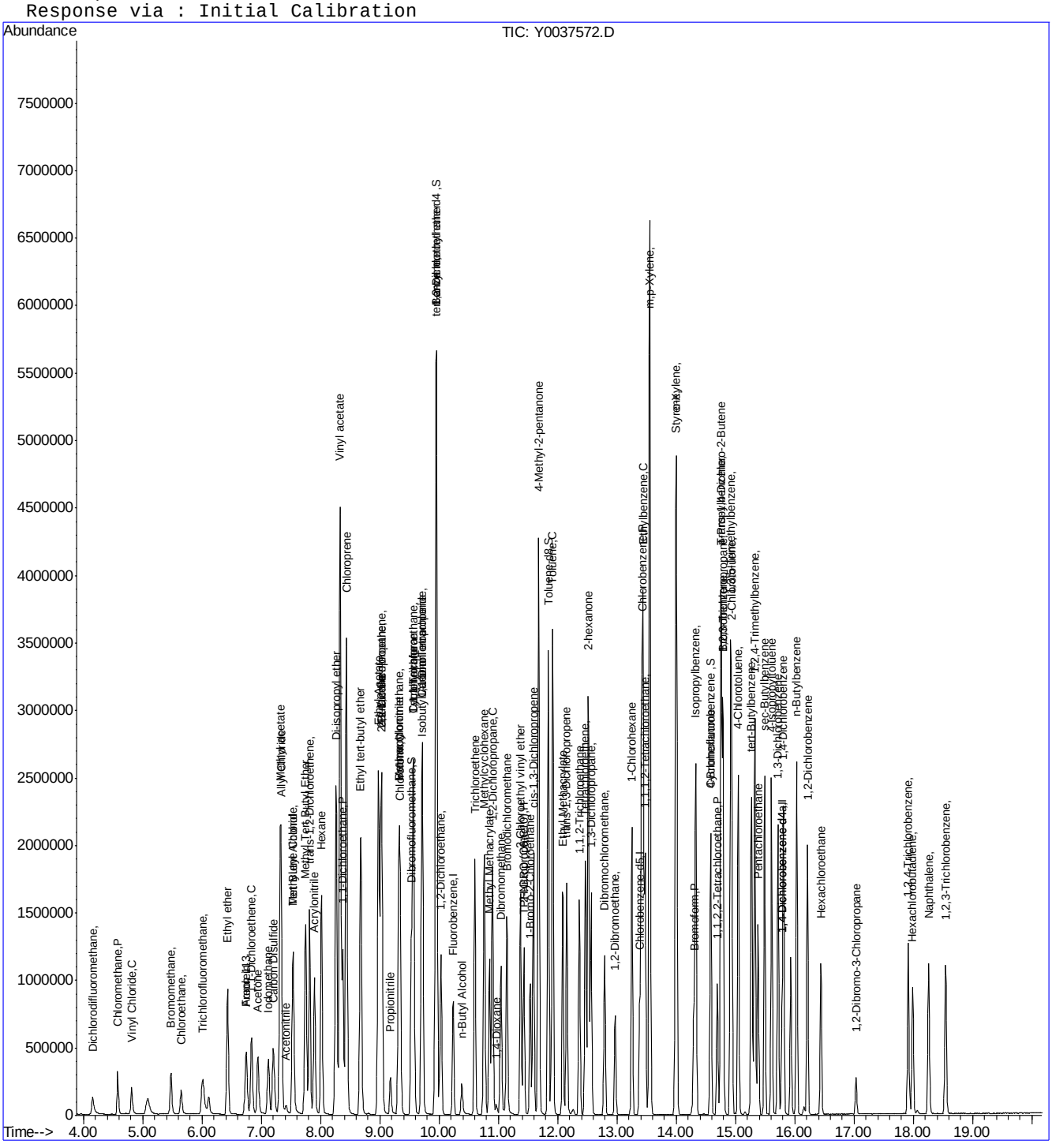
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	1610629	208.35 ug/kg	99
93)	Pentachloroethane	15.38	167	295819	204.87 ug/kg	94
94)	sec-Butylbenzene	15.49	105	1811533	204.88 ug/kg	99
95)	1,3-Dichlorobenzene	15.72	146	921495	201.82 ug/kg	99
96)	4-Isopropyltoluene	15.61	119	1494986	207.31 ug/kg	99
97)	1,4-Dichlorobenzene	15.81	146	934579	201.20 ug/kg	99
98)	tert-Butylbenzene	15.27	91	798257	204.20 ug/kg	99
99)	n-Butylbenzene	16.03	91	1468384	210.86 ug/kg	98
100)	1,2-Dichlorobenzene	16.21	146	842630	205.74 ug/kg	98
101)	1,2,4-Trimethylbenzene	15.32	105	1647970	207.55 ug/kg	99
102)	Hexachloroethane	16.44	119	252744	199.88 ug/kg	96
103)	1,2-Dibromo-3-Chloropropan	17.03	75	75306	221.49 ug/kg	96
104)	1,2,4-Trichlorobenzene	17.91	180	471583	225.79 ug/kg	99
105)	Hexachlorobutadiene	17.99	225	228511	224.40 ug/kg	94
106)	Naphthalene	18.26	128	1044957	261.04 ug/kg	99
107)	1,2,3-Trichlorobenzene	18.54	180	427306	250.40 ug/kg	97
109)	TPH-GRO (C6-C10)	11.41	TIC	230833743m	13652.39 mg/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

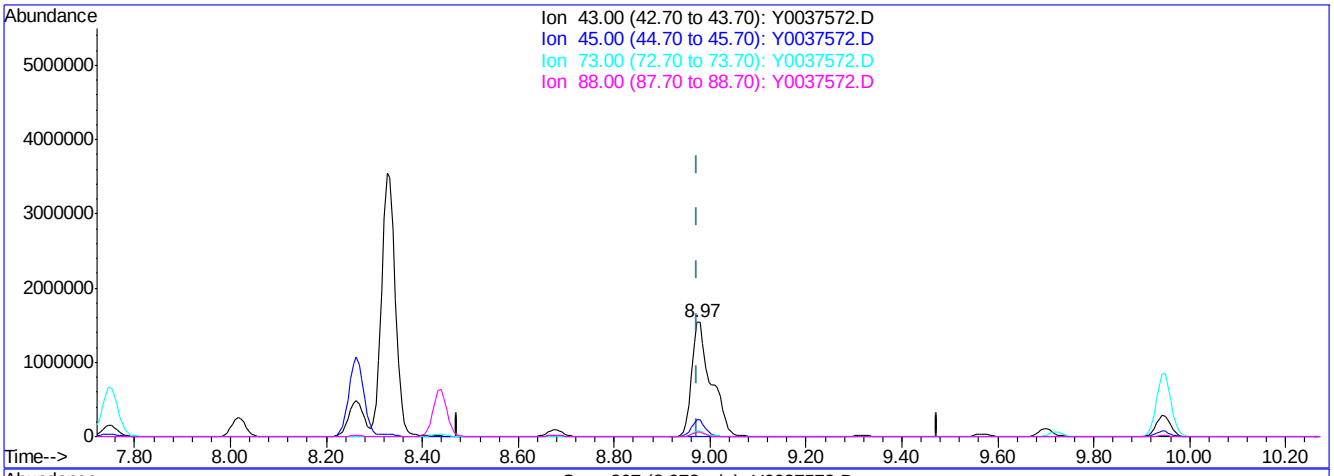


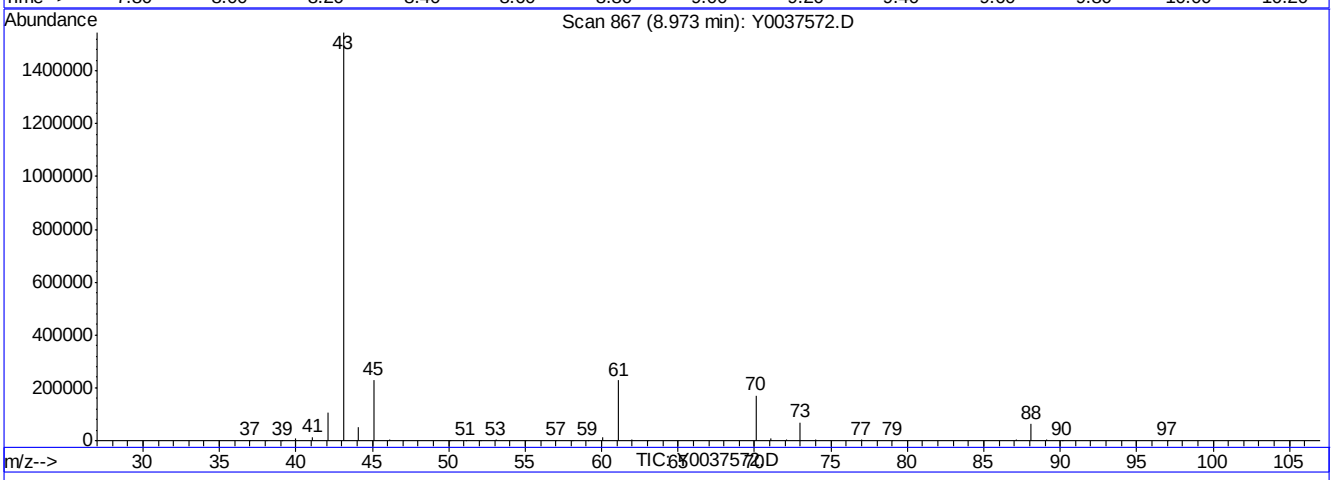
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:55 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 1360.16ug/kg

response 4311271

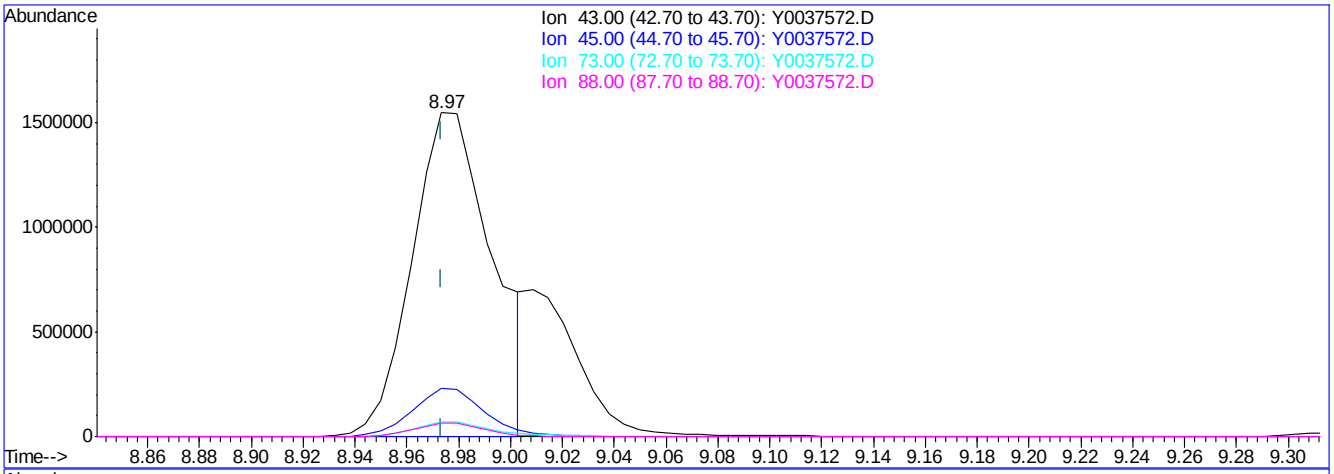
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.93
73.00	4.40	4.51
88.00	3.80	4.12

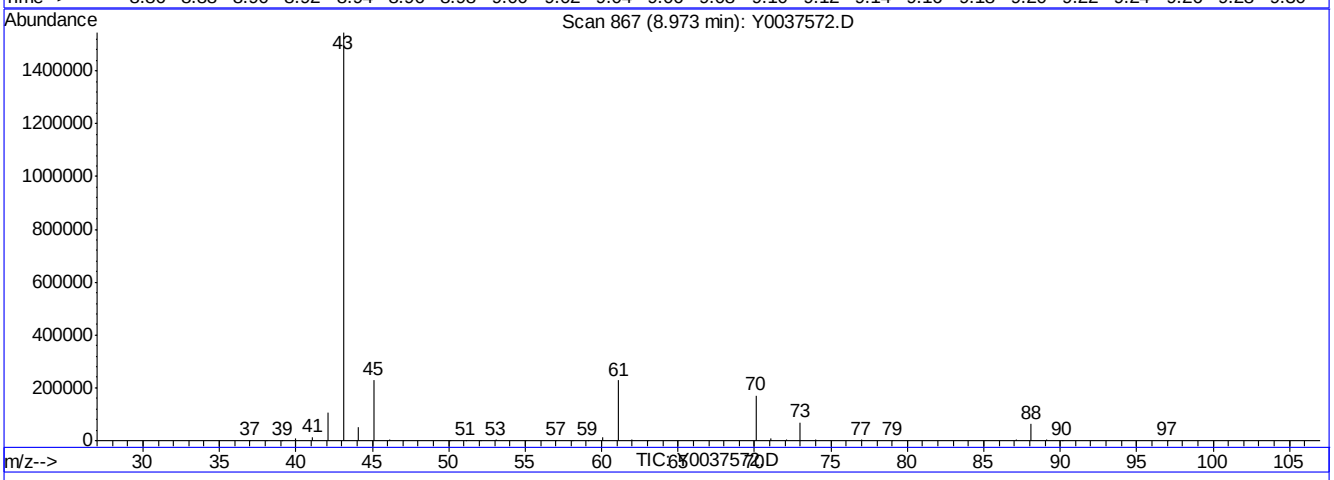
Y0037572.D VY2406AP9.M Thu Feb 04 09:33:12 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2406\Y0037572.D Vial: 8
Acq On : 3 Feb 2010 9:20 pm Operator: jennl
Sample : ic2406-200 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:32:55 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 1046.72ug/kg m

response 3317771

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.93
73.00	4.40	4.51
88.00	3.80	4.12

Y0037572.D VY2406AP9.M Thu Feb 04 09:33:19 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:36:44 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	758973	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	537204	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	240821	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	240821	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	138739	39.83	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 79.66%			
46) 1,2-Dichloroethane-d4	9.95	65	138611	33.07	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 66.14%			
63) Toluene-d8	11.84	98	560905	45.05	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 90.10%			
84) 4-Bromofluorobenzene	14.58	95	292945	63.03	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 126.06%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	35127	31.56	ug/kg	98
3) Chloromethane	4.58	50	65057	35.31	ug/kg	97
4) Vinyl Chloride	4.81	62	52462	36.46	ug/kg	92
5) Bromomethane	5.48	94	43925	35.34	ug/kg	94
6) Chloroethane	5.65	64	33595	34.93	ug/kg	99
7) Trichlorofluoromethane	6.01	101	73358	31.77	ug/kg	99
9) Ethyl ether	6.43	59	105428	34.48	ug/kg	99
10) Acrolein	6.75	56	65147	690.24	ug/kg	91
11) 1,1-Dichloroethene	6.83	96	45862	30.55	ug/kg	95
12) Freon 113	6.75	101	33741	27.58	ug/kg	98
13) Acetone	6.94	43	133963	188.74	ug/kg	96
14) Iodomethane	7.12	142	89654	29.14	ug/kg	99
15) Methyl acetate	7.32	43	417015	182.70	ug/kg	99
16) Carbon Disulfide	7.20	76	116511	21.69	ug/kg	98
17) Allyl Chloride	7.33	41	178249	35.48	ug/kg	97
18) Acetonitrile	7.42	41	73084	393.65	ug/kg	93
19) Methylene Chloride	7.53	84	95456	38.79	ug/kg	99
20) Tert Butyl Alcohol	7.54	59	102931	392.49	ug/kg	97
21) trans-1,2-Dichloroethene	7.82	96	103751	33.58	ug/kg	98
22) Acrylonitrile	7.89	53	257634	300.59	ug/kg	98
23) Hexane	8.02	57	102985	22.51	ug/kg	97
24) Methyl Tert Butyl Ether	7.75	73	309154	37.77	ug/kg	98
25) 1,1-Dichloroethane	8.37	63	223104	34.98	ug/kg	100
26) Vinyl acetate	8.33	43	1145878	160.31	ug/kg	100
27) Di-isopropyl ether	8.26	45	435677	35.84	ug/kg	97
28) Chloroprene	8.43	53	167994	14.13	ug/kg	99
29) Ethyl tert-butyl ether	8.67	59	365587	36.21	ug/kg	98
30) Ethyl Acetate	8.97	43	636182m	194.14	ug/kg	
31) 2,2-Dichloropropane	9.01	77	99462	31.76	ug/kg	97
32) cis-1,2-Dichloroethene	9.03	96	128809	37.21	ug/kg	98
33) 2-Butanone	9.01	72	59669	183.07	ug/kg#	81
34) Propionitrile	9.18	54	118405	377.51	ug/kg	97
35) Bromochloromethane	9.32	128	70448	39.14	ug/kg#	77
36) Methacrylonitrile	9.31	41	705019	602.82	ug/kg#	71

(#) = qualifier out of range (m) = manual integration
Y0037574.D VY2406AP9.M Fri Feb 05 10:29:58 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:36:44 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	Chloroform	9.34	83	232853	37.61 ug/kg	98
38)	Tetrahydrofuran	9.57	42	25198	25.72 ug/kg	97
39)	1,1,1-Trichloroethane	9.56	97	146648	34.26 ug/kg	95
41)	Cyclohexane	9.57	56	108412	25.65 ug/kg	97
42)	Isobutyl Alcohol	9.70	43	85290	751.48 ug/kg	91
43)	1,1-Dichloropropene	9.72	75	143176	33.27 ug/kg	97
44)	n-Butyl Alcohol	10.38	56	46155	733.25 ug/kg	99
45)	Carbon Tetrachloride	9.71	117	134573	33.52 ug/kg	97
47)	Benzene	9.95	78	475905	34.71 ug/kg	97
48)	1,2-Dichloroethane	10.03	62	188104	39.06 ug/kg	96
49)	tert-amyl methyl ether	9.94	73	333017	36.89 ug/kg	99
50)	Trichloroethene	10.60	95	111744	34.21 ug/kg	98
51)	1-Bromo-2-Chloroethane	11.53	63	165268	36.77 ug/kg	99
52)	Methylcyclohexane	10.76	83	115485	26.11 ug/kg	99
53)	Methyl Methacrylate	10.85	41	123940	40.57 ug/kg	98
54)	1,2-Dichloropropane	10.89	63	134639	37.43 ug/kg	98
55)	Dibromomethane	11.04	93	83386	39.31 ug/kg	96
56)	1,4-Dioxane	10.97	88	11672	655.18 ug/kg	97
57)	Bromodichloromethane	11.14	83	183142	37.71 ug/kg	98
58)	2-Nitropropane	11.42	41	174693	201.70 ug/kg	99
59)	2-Chloroethyl vinyl ether	11.37	63	129555	191.82 ug/kg	98
60)	4-Methyl-2-pentanone	11.68	100	81408	198.68 ug/kg	96
61)	cis-1,3-Dichloropropene	11.59	75	212408	36.99 ug/kg	98
64)	Toluene	11.91	92	292919	34.09 ug/kg	95
65)	Ethyl Methacrylate	12.08	69	158922	36.00 ug/kg	99
66)	trans-1,3-Dichloropropene	12.15	75	193500	38.15 ug/kg	98
67)	1,1,2-Trichloroethane	12.36	83	97197	38.34 ug/kg	99
68)	Tetrachloroethene	12.46	164	89450	34.17 ug/kg	98
69)	2-hexanone	12.52	43	402736	186.35 ug/kg	99
70)	1,3-Dichloropropane	12.56	76	196548	37.55 ug/kg	98
71)	Dibromochloromethane	12.79	129	142962	38.32 ug/kg	97
72)	1,2-Dibromoethane	12.97	107	114507	38.56 ug/kg	99
73)	1-Chlorohexane	13.25	91	128680	30.43 ug/kg	97
74)	Chlorobenzene	13.42	112	342231	35.73 ug/kg	99
75)	1,1,1,2-Tetrachloroethane	13.47	131	125336	37.76 ug/kg	97
76)	Ethylbenzene	13.44	91	535814	33.87 ug/kg	100
77)	m,p-Xylene	13.55	106	417518	68.52 ug/kg	99
78)	o-Xylene	13.99	106	205314	35.58 ug/kg	95
79)	Styrene	14.00	104	365499	34.92 ug/kg	98
80)	Bromoform	14.30	173	88963	39.58 ug/kg	95
82)	Isopropylbenzene	14.33	105	458001	37.99 ug/kg	99
83)	Cyclohexanone	14.58	55	21909	322.20 ug/kg	85
85)	Bromobenzene	14.78	156	142747	35.59 ug/kg	96
86)	1,1,2,2-Tetrachloroethane	14.69	83	133624	38.08 ug/kg	99
87)	Trans-1,4-Dichloro-2-Buten	14.75	53	39598	31.02 ug/kg#	49
88)	1,2,3-Trichloropropane	14.79	75	113123m	34.12 ug/kg	
89)	n-Propylbenzene	14.75	91	551867	32.67 ug/kg	100
90)	2-Chlorotoluene	14.93	91	402579	34.36 ug/kg	99
91)	4-Chlorotoluene	15.04	91	352484	33.60 ug/kg	98

(#) = qualifier out of range (m) = manual integration
Y0037574.D VY2406AP9.M Fri Feb 05 10:29:59 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 04 09:36:44 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

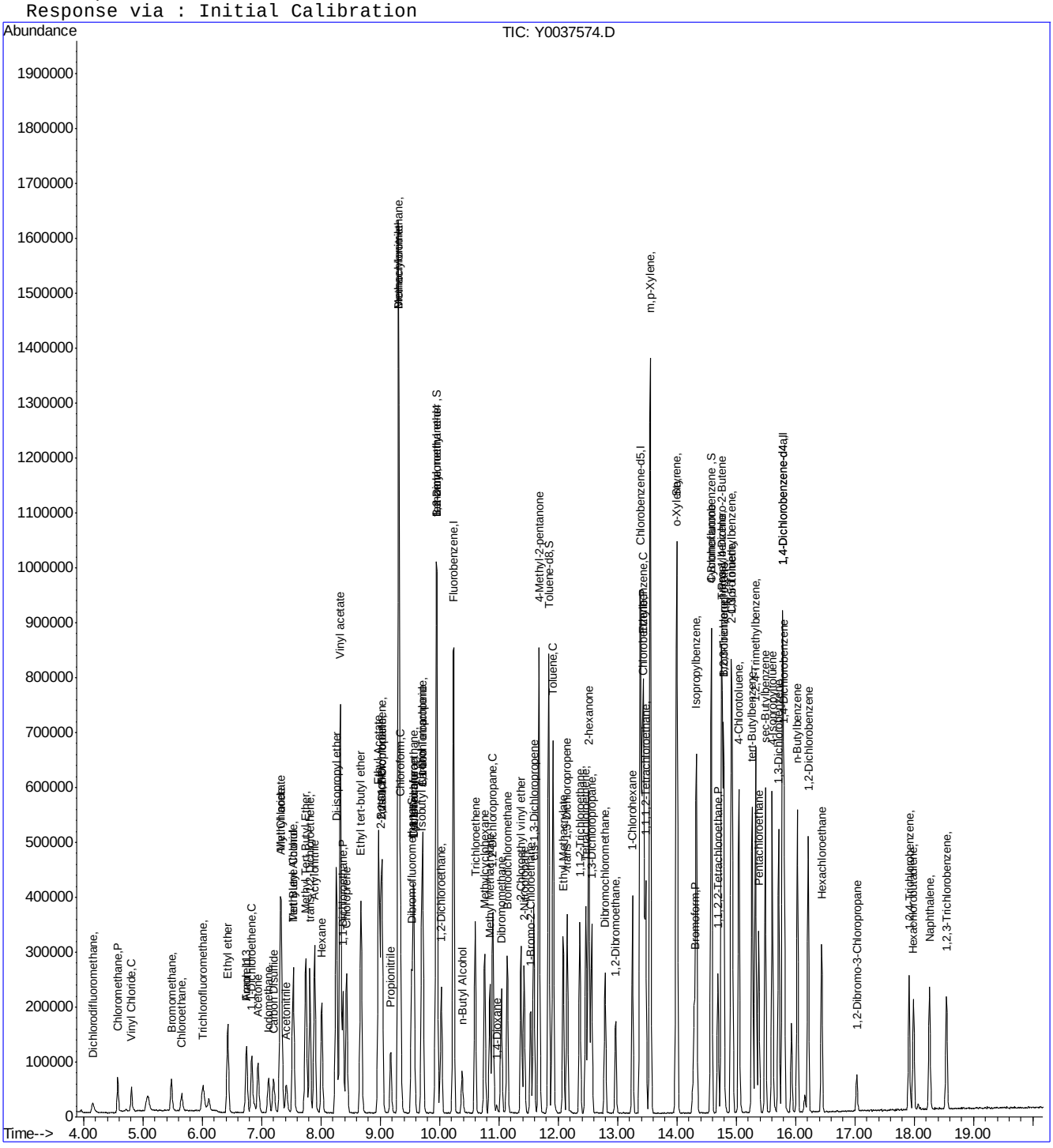
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	376258	33.87	ug/kg	99
93)	Pentachloroethane	15.38	167	64929	31.41	ug/kg	94
94)	sec-Butylbenzene	15.49	105	428561	33.67	ug/kg	99
95)	1,3-Dichlorobenzene	15.72	146	223046	34.08	ug/kg	99
96)	4-Isopropyltoluene	15.61	119	342437	32.95	ug/kg	98
97)	1,4-Dichlorobenzene	15.81	146	229469	34.19	ug/kg	100
98)	tert-Butylbenzene	15.27	91	193066	34.38	ug/kg	99
99)	n-Butylbenzene	16.03	91	314315	31.26	ug/kg	99
100)	1,2-Dichlorobenzene	16.21	146	212630	36.13	ug/kg	96
101)	1,2,4-Trimethylbenzene	15.32	105	383651	33.77	ug/kg	98
102)	Hexachloroethane	16.44	119	67917	37.15	ug/kg	94
103)	1,2-Dibromo-3-Chloropropan	17.03	75	19168	38.83	ug/kg	89
104)	1,2,4-Trichlorobenzene	17.92	180	94286	30.81	ug/kg	99
105)	Hexachlorobutadiene	17.99	225	48977	32.88	ug/kg	94
106)	Naphthalene	18.26	128	210744	35.68	ug/kg	97
107)	1,2,3-Trichlorobenzene	18.54	180	80596	31.91	ug/kg	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 5 10:28 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

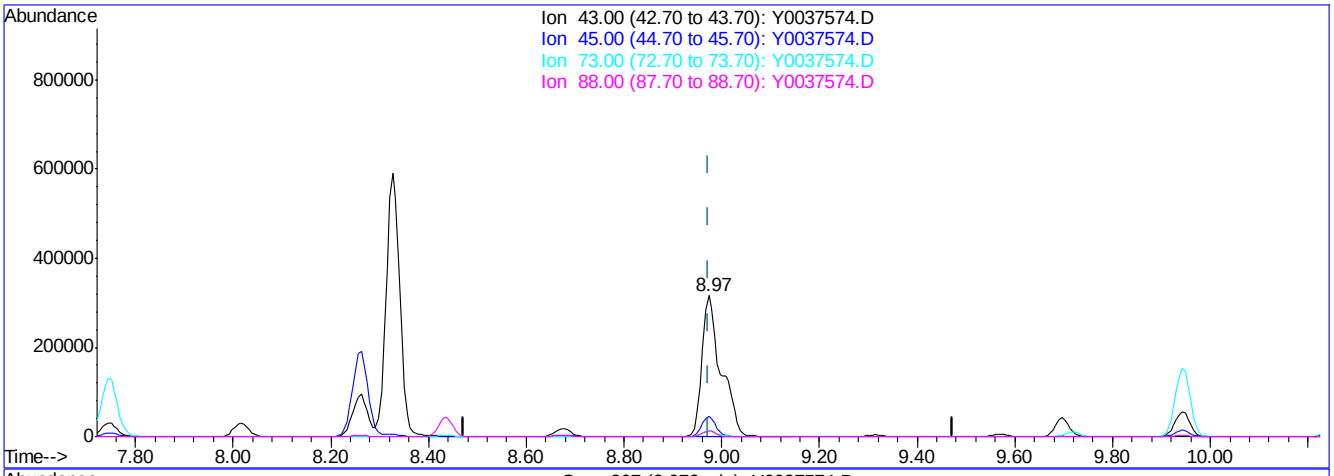


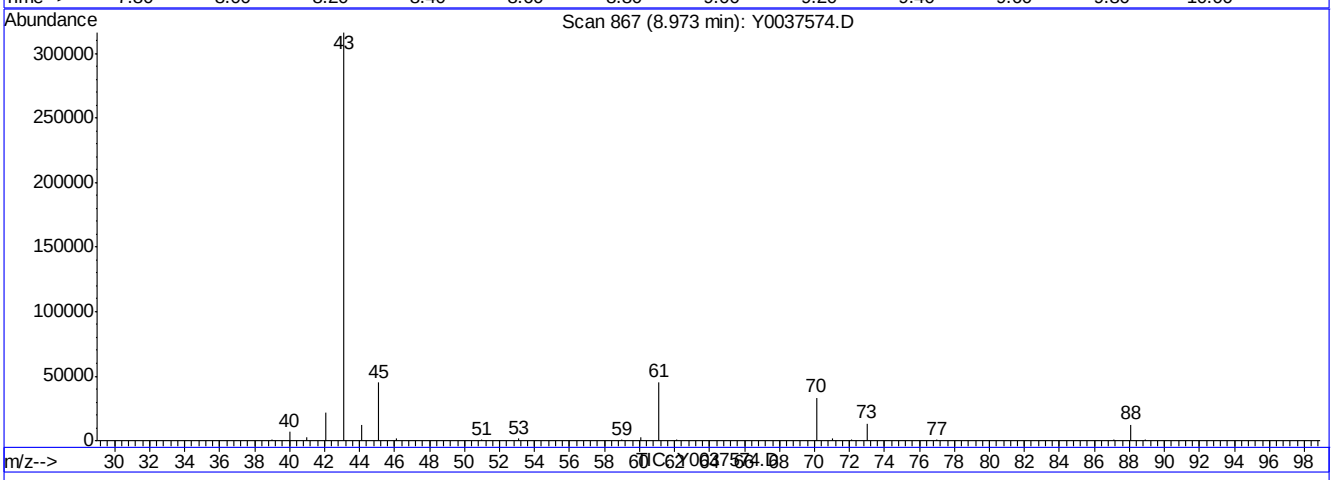
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 9:36 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 260.32ug/kg

response 853062

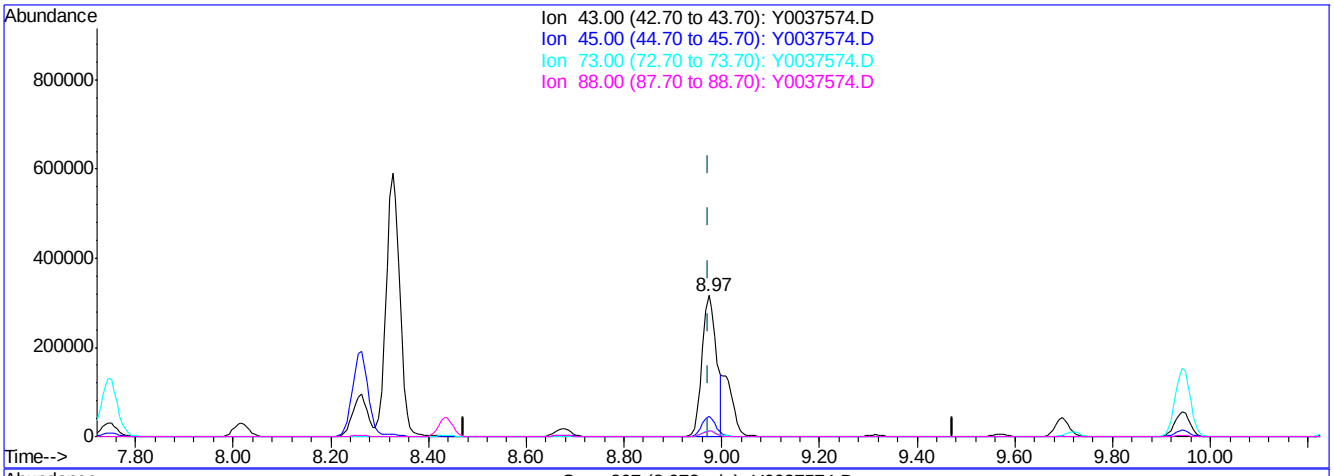
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.27
73.00	4.40	4.23
88.00	3.80	3.94

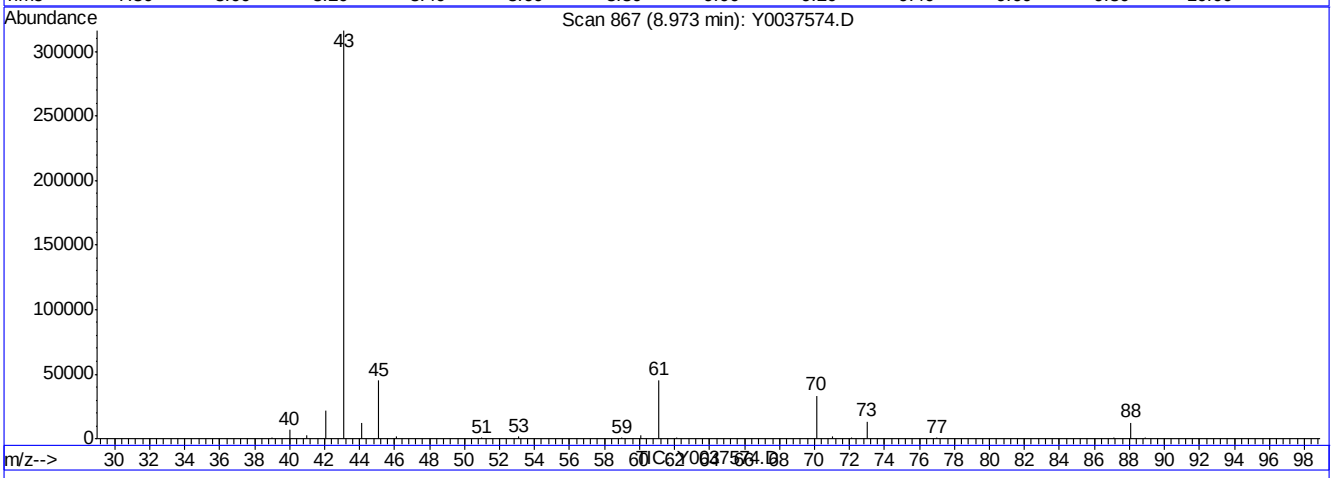
Y0037574.D VY2406AP9.M Fri Feb 05 10:27:58 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 5 10:28 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (-0.000) 194.14ug/kg m

response 636182

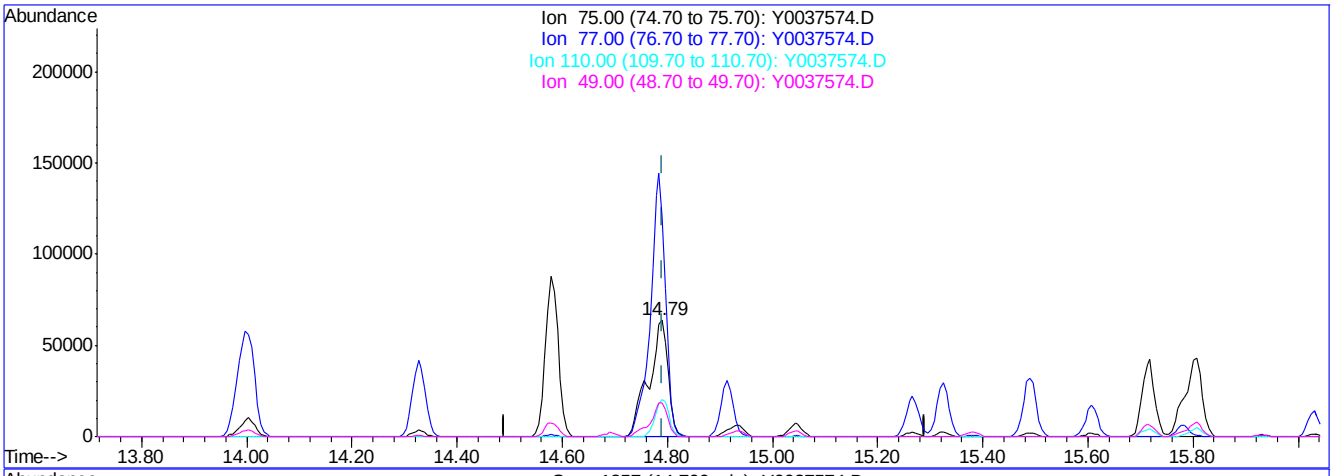
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.27
73.00	4.40	4.23
88.00	3.80	3.94

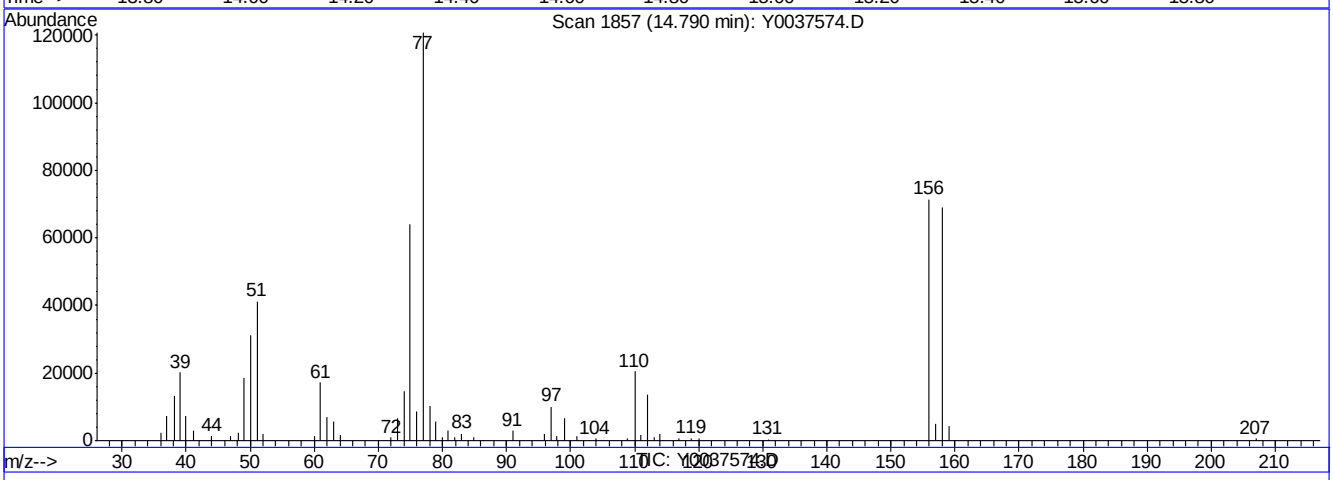
Y0037574.D VY2406AP9.M Fri Feb 05 10:28:04 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 5 10:28 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 49.24ug/kg

response 163287

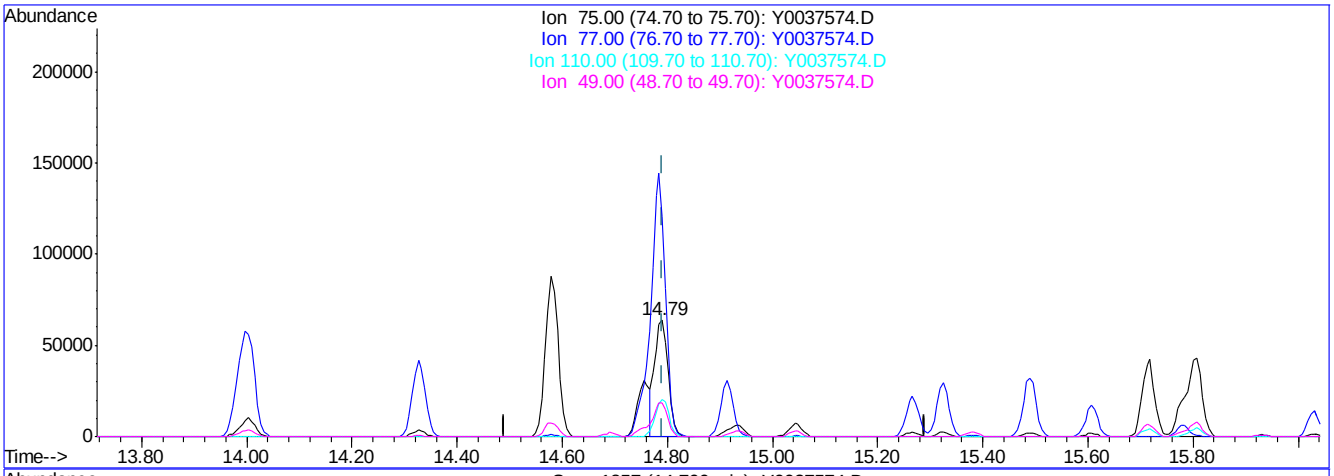
Ion	Exp%	Act%
75.00	100	100
77.00	194.40	188.99
110.00	31.80	32.06
49.00	28.70	28.94

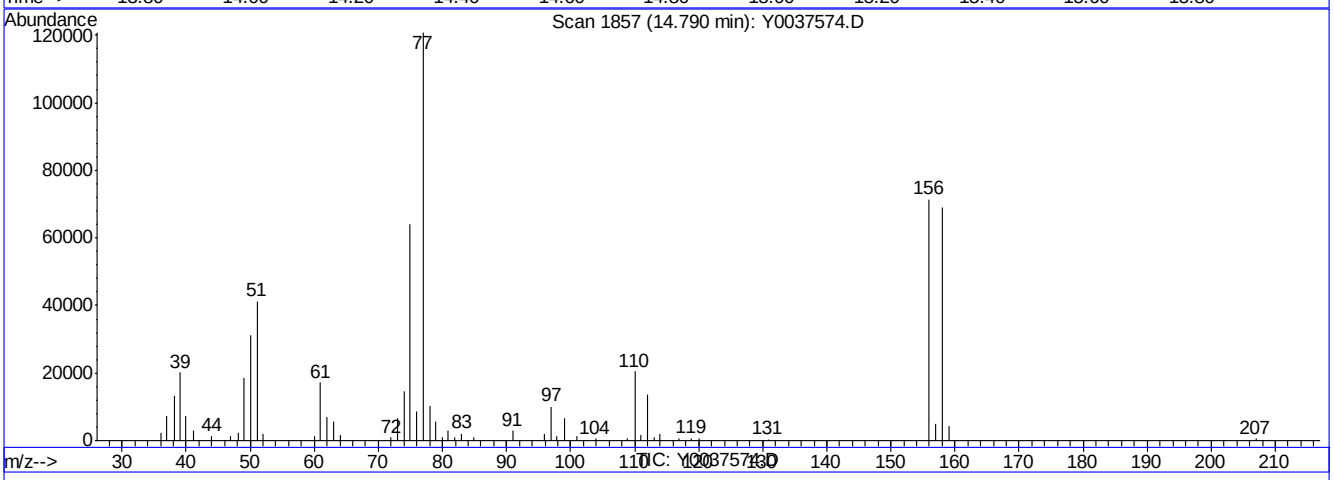
Y0037574.D VY2406AP9.M Fri Feb 05 10:28:11 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2406\Y0037574.D Vial: 10
Acq On : 4 Feb 2010 9:16 am Operator: jennl
Sample : icv2406-40 Inst : GCMS_Y
Misc : ms7490,vy2406,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 5 10:28 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(88) 1,2,3-Trichloropropane ( )

14.79min (-0.000) 34.12ug/kg m

response 113123

Ion	Exp%	Act%
75.00	100	100
77.00	194.40	188.99
110.00	31.80	32.06
49.00	28.70	28.94

Y0037574.D VY2406AP9.M Fri Feb 05 10:28:19 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/09/10 17:27

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:24 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	578884	50.00	ug/kg	0.00
62) Chlorobenzene-d5	13.38	117	446705	50.00	ug/kg	0.00
81) 1,4-Dichlorobenzene-d4	15.78	152	212561	50.00	ug/kg	0.00
108) 1,4-Dichlorobenzene-d4a	15.78	152	212561	50.00	mg/kg	0.00

System Monitoring Compounds

40) Dibromofluoromethane	9.53	113	52199	19.65	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 39.30%#			
46) 1,2-Dichloroethane-d4	9.94	65	58914	18.43	ug/kg	0.00
Spiked Amount 50.000	Range 56 - 121		Recovery = 36.86%#			
63) Toluene-d8	11.83	98	179878	17.38	ug/kg	0.00
Spiked Amount 50.000	Range 76 - 139		Recovery = 34.76%#			
84) 4-Bromofluorobenzene	14.58	95	65991	16.09	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 167		Recovery = 32.18%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.16	85	15077	17.76	ug/kg	98
3) Chloromethane	4.58	50	27135	19.31	ug/kg	97
4) Vinyl Chloride	4.80	62	23353	21.28	ug/kg	95
5) Bromomethane	5.48	94	18251	19.25	ug/kg	97
6) Chloroethane	5.65	64	14706	20.04	ug/kg	98
7) Trichlorofluoromethane	6.01	101	35554	20.19	ug/kg	97
9) Ethyl ether	6.43	59	40463	17.35	ug/kg	96
10) Acrolein	6.75	56	6254	86.88	ug/kg	92
11) 1,1-Dichloroethene	6.83	96	22614	19.75	ug/kg	97
12) Freon 113	6.74	101	18753	20.10	ug/kg	93
13) Acetone	6.94	43	56482	98.70	ug/kg	92
14) Iodomethane	7.12	142	48659	20.74	ug/kg	97
15) Methyl acetate	7.31	43	152077	87.36	ug/kg	99
16) Carbon Disulfide	7.20	76	77344	18.88	ug/kg	99
17) Allyl Chloride	7.33	41	58042	15.15	ug/kg	99
18) Acetonitrile	7.42	41	6892	47.34	ug/kg	90
19) Methylene Chloride	7.53	84	37143	18.32	ug/kg	99
20) Tert Butyl Alcohol	7.53	59	37455	187.25	ug/kg	96
21) trans-1,2-Dichloroethene	7.82	96	43766	18.57	ug/kg	98
22) Acrylonitrile	7.89	53	58198	89.03	ug/kg	97
23) Hexane	8.02	57	64281	18.42	ug/kg	98
24) Methyl Tert Butyl Ether	7.75	73	114220	18.30	ug/kg	99
25) 1,1-Dichloroethane	8.37	63	91951	18.90	ug/kg	96
26) Vinyl acetate	8.33	43	479685	87.99	ug/kg	100
27) Di-isopropyl ether	8.26	45	169963	18.33	ug/kg	98
28) Chloroprene	8.43	53	142744	15.74	ug/kg	99
29) Ethyl tert-butyl ether	8.67	59	143846	18.68	ug/kg	98
30) Ethyl Acetate	8.97	43	232044m	92.84	ug/kg	
31) 2,2-Dichloropropane	9.01	77	44837	18.77	ug/kg	99
32) cis-1,2-Dichloroethene	9.03	96	48608	18.41	ug/kg	95
33) 2-Butanone	9.01	72	23403	94.14	ug/kg#	85
34) Propionitrile	9.17	54	21461	89.71	ug/kg	97
35) Bromochloromethane	9.31	128	27205	19.81	ug/kg#	87
36) Methacrylonitrile	9.31	41	15599	16.98	ug/kg	94

(#) = qualifier out of range (m) = manual integration
Y0037677.D VY2406AP9.M Tue Feb 09 11:36:53 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:24 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Chloroform	9.34	83	87140	18.45 ug/kg	99
38) Tetrahydrofuran	9.57	42	13320	17.82 ug/kg	83
39) 1,1,1-Trichloroethane	9.56	97	61383	18.80 ug/kg	93
41) Cyclohexane	9.57	56	59750	18.53 ug/kg	95
42) Isobutyl Alcohol	9.69	43	14733	170.19 ug/kg	91
43) 1,1-Dichloropropene	9.72	75	61164	18.63 ug/kg	96
44) n-Butyl Alcohol	10.38	56	8318	173.26 ug/kg	98
45) Carbon Tetrachloride	9.71	117	58945	19.25 ug/kg	97
47) Benzene	9.95	78	193431	18.50 ug/kg	99
48) 1,2-Dichloroethane	10.03	62	67586	18.40 ug/kg	97
49) tert-amyl methyl ether	9.94	73	124618	18.10 ug/kg	98
50) Trichloroethene	10.60	95	47888	19.22 ug/kg	96
51) 1-Bromo-2-Chloroethane	11.53	63	67325	19.64 ug/kg	99
52) Methylcyclohexane	10.76	83	64571	19.14 ug/kg	99
53) Methyl Methacrylate	10.85	41	39445	16.93 ug/kg	93
54) 1,2-Dichloropropane	10.89	63	53808	19.61 ug/kg	97
55) Dibromomethane	11.04	93	30700	18.98 ug/kg	94
56) 1,4-Dioxane	10.96	88	5517	444.60 ug/kg	86
57) Bromodichloromethane	11.14	83	71027	19.17 ug/kg	96
58) 2-Nitropropane	11.42	41	61530	93.14 ug/kg	99
59) 2-Chloroethyl vinyl ether	11.37	63	35354	68.63 ug/kg	97
60) 4-Methyl-2-pentanone	11.67	100	30767	98.45 ug/kg#	80
61) cis-1,3-Dichloropropene	11.59	75	83416	19.05 ug/kg	97
64) Toluene	11.91	92	119288	16.69 ug/kg	99
65) Ethyl Methacrylate	12.08	69	58930	16.05 ug/kg	99
66) trans-1,3-Dichloropropene	12.15	75	71554	16.96 ug/kg	97
67) 1,1,2-Trichloroethane	12.36	83	36738	17.43 ug/kg	98
68) Tetrachloroethene	12.46	164	42858	19.69 ug/kg	94
69) 2-hexanone	12.51	43	148143	82.43 ug/kg	98
70) 1,3-Dichloropropane	12.56	76	74669	17.15 ug/kg	98
71) Dibromochloromethane	12.79	129	55075	17.75 ug/kg	97
72) 1,2-Dibromoethane	12.97	107	44915	18.19 ug/kg	97
73) 1-Chlorohexane	13.25	91	63331	18.01 ug/kg	99
74) Chlorobenzene	13.41	112	144614	18.16 ug/kg	95
75) 1,1,1,2-Tetrachloroethane	13.47	131	52029	18.85 ug/kg	96
76) Ethylbenzene	13.44	91	228280	17.36 ug/kg	95
77) m,p-Xylene	13.55	106	183258	36.17 ug/kg	95
78) o-Xylene	13.99	106	86442	18.01 ug/kg	92
79) Styrene	14.00	104	155046	17.82 ug/kg	96
80) Bromoform	14.30	173	37002	19.80 ug/kg	98
82) Isopropylbenzene	14.33	105	180554	16.97 ug/kg	99
83) Cyclohexanone	14.57	55	5487	104.93 ug/kg	92
85) Bromobenzene	14.78	156	63559	17.95 ug/kg	87
86) 1,1,2,2-Tetrachloroethane	14.69	83	50547	16.32 ug/kg	96
87) Trans-1,4-Dichloro-2-Buten	14.75	53	17830	15.82 ug/kg	93
88) 1,2,3-Trichloropropane	14.78	75	43777	14.96 ug/kg	85
89) n-Propylbenzene	14.75	91	246808	16.55 ug/kg	99
90) 2-Chlorotoluene	14.93	91	170968	16.53 ug/kg	100
91) 4-Chlorotoluene	15.04	91	154397	16.67 ug/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 08 11:37:24 2010 Quant Results File: VY2406AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration
DataAcq Meth : 8260B

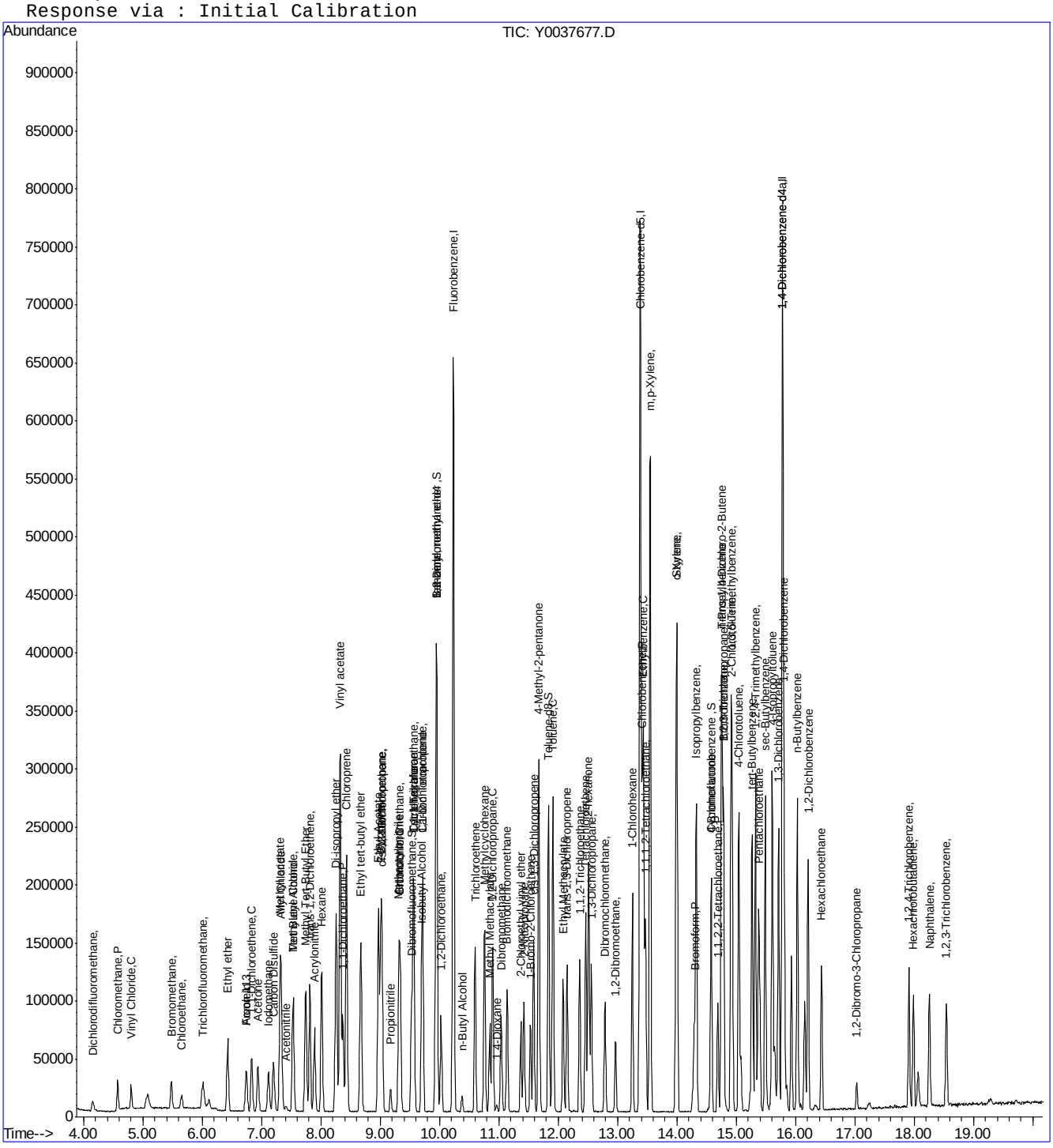
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
92)	1,3,5-Trimethylbenzene	14.91	105	170502	17.39 ug/kg	100
93)	Pentachloroethane	15.38	167	35277	19.33 ug/kg	99
94)	sec-Butylbenzene	15.49	105	201925	17.97 ug/kg	99
95)	1,3-Dichlorobenzene	15.71	146	110099	19.06 ug/kg	96
96)	4-Isopropyltoluene	15.61	119	164643	17.95 ug/kg	98
97)	1,4-Dichlorobenzene	15.81	146	111781	18.87 ug/kg	97
98)	tert-Butylbenzene	15.27	91	82420	16.63 ug/kg	93
99)	n-Butylbenzene	16.03	91	153417	17.29 ug/kg	99
100)	1,2-Dichlorobenzene	16.21	146	97200	18.71 ug/kg	95
101)	1,2,4-Trimethylbenzene	15.32	105	172747	17.23 ug/kg	98
102)	Hexachloroethane	16.44	119	27731	17.19 ug/kg	94
103)	1,2-Dibromo-3-Chloropropan	17.03	75	6400	14.69 ug/kg	91
104)	1,2,4-Trichlorobenzene	17.91	180	48144	17.82 ug/kg	98
105)	Hexachlorobutadiene	17.99	225	25356	19.28 ug/kg	97
106)	Naphthalene	18.25	128	97016	18.61 ug/kg	100
107)	1,2,3-Trichlorobenzene	18.54	180	38576	17.31 ug/kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
Y0037677.D VY2406AP9.M Tue Feb 09 11:36:53 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:07 2010 Quant Results File: VY2406AP9.RES

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Initial Calibration

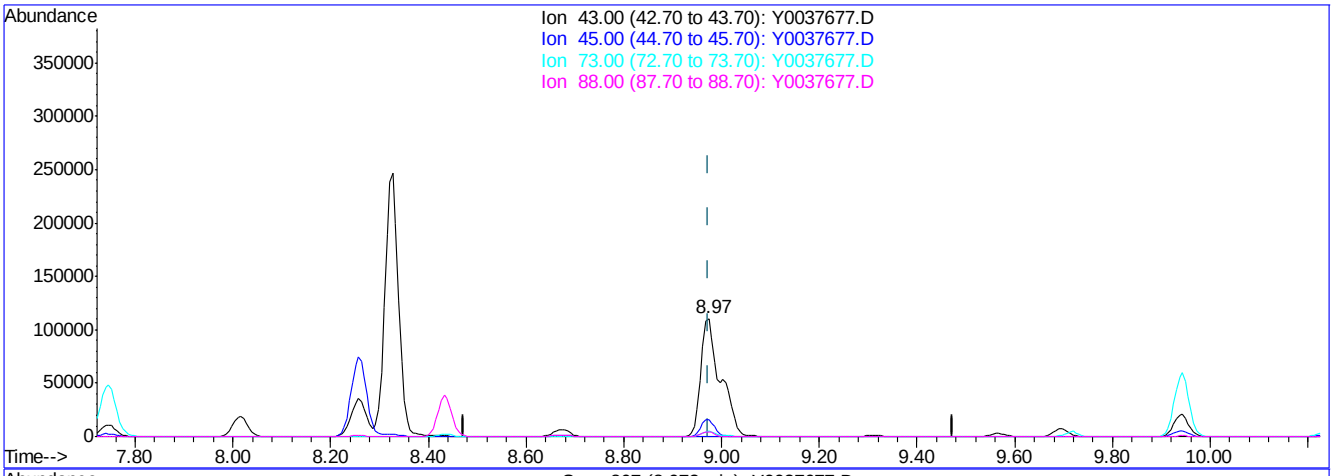


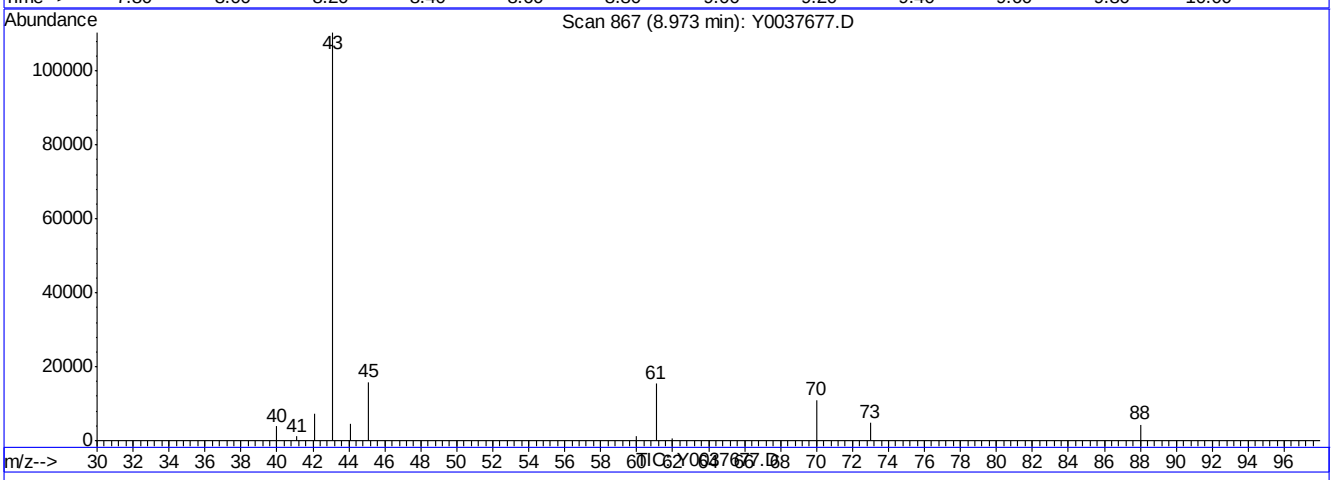
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 8 11:37 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 122.96ug/kg

response 307328

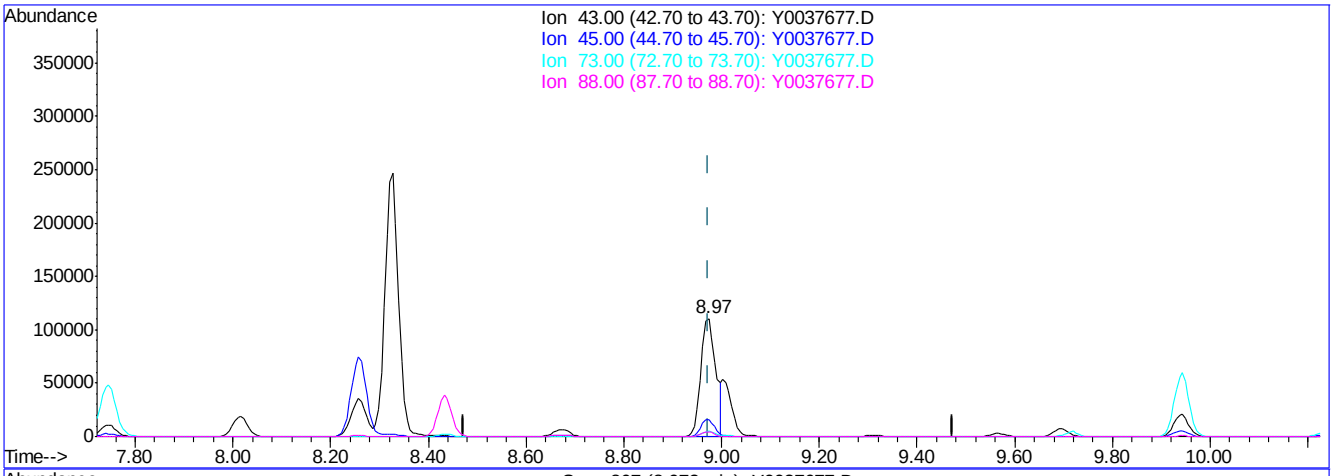
Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.37
73.00	4.40	4.32
88.00	3.80	3.99

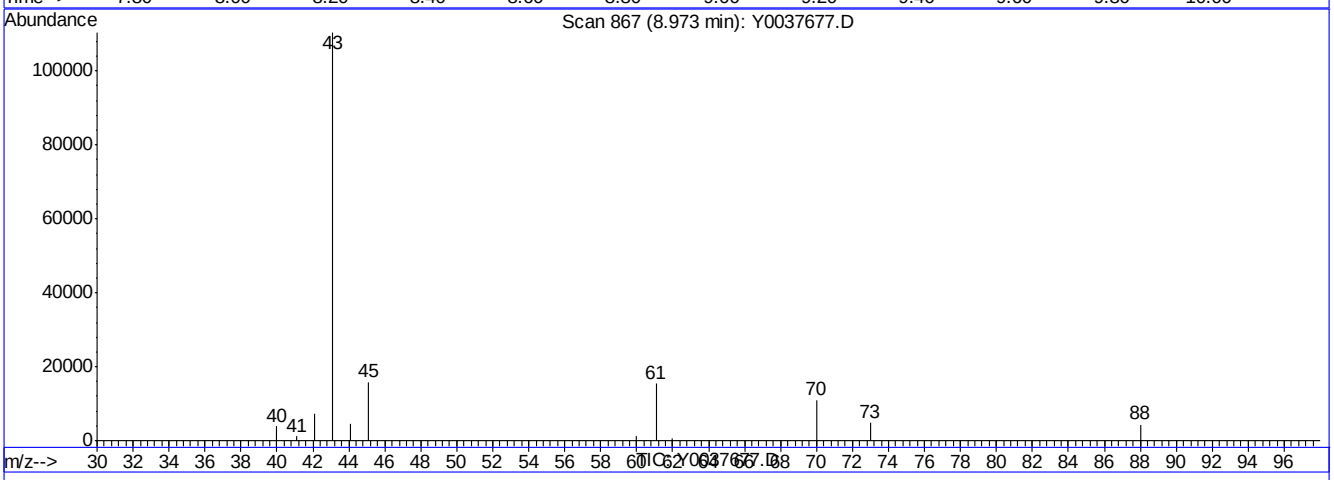
Y0037677.D VY2406AP9.M Tue Feb 09 10:07:20 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VY2412\Y0037677.D Vial: 2
Acq On : 8 Feb 2010 10:20 am Operator: jennl
Sample : cc2406-20 Inst : GCMS_Y
Misc : ms7504,vy2412,5.,,,5,,soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 10:07 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\VY2406AP9.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Feb 04 09:35:32 2010
Response via : Multiple Level Calibration





(30) Ethyl Acetate

8.97min (+0.000) 92.84ug/kg m

response 232044

Ion	Exp%	Act%
43.00	100	100
45.00	14.30	14.37
73.00	4.40	4.32
88.00	3.80	3.99

Y0037677.D VY2406AP9.M Tue Feb 09 10:07:39 2010

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 74916
Batch ID: VX435

Date: 2/4/10-2/5/10

Analyst Signature:

Standard Data

Ref #	Description
A	BFB MV4165
B	Internal Standard MV4169
C	8260 Standard MV4162, 4164, 4163, 4167
D	8260 BS/MS/MSD MV4158, 4145, 4152, 4168
E	Surrogate Standard MV4150
F	GRO Marker N/A
G	GRO Standard ↓
H	GRO LCS ↓

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC-435
Calibration Date: 2/4/10

Solvent ID #: RV100203

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.
B,E	X0058800	blk	5	8260	W	N/A	1	N/A	N/A	N/A	Y	clean up	NR
↓	07	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
A	08	bfb										autosrd 40uL/40mL	
B,C	09	ic435-2										2uL/100mL	
↓	10	↓ -5										5uL/100mL	
↓	11	↓ -20										10uL/50mL	
↓	12	icc435-40										20uL/50mL	
↓	13	ic435-100										50uL/50mL	
↓	14	↓ -200										100uL/50mL	
B,E	15	blk										clean up	
B,D,E	16	icv435-40										25uL/50mL	
↓	17	bs										12.5uL/50mL	
B,E	18	blk										clean up	
↓	19	mb				↓			↓				
↓	20	H46524-6				<2			1				
↓	21	H46388-1							6				
B,D,E	22	↓ -1ms							5			12.5uL/50mL	
↓	23	↓ -1msd							5			↓	
B,E	24	H46092-1					↓	↓	3			DNR A.P. ran also + C/O	
↓	↓ 25	H46524-1	↓	↓	↓	↓	20	25	2	↓	↓	RR 10,000X 2mL/50mL	↓

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: 74960
Batch ID: VX435

Date: 2/4/10 - 2/5/10

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

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
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.
B.E	X0058826	H16524-2	5	8260	W	<2	21	25	2	N/A	Y	2mL / 50mL RR1X	NR
	27	42 NR 2/5/10 -3							4			RR25X, 1X	
	28	-4							2			RR25X, 1X	
	29	blk				N/A		N/A	N/A			clean up	
	30						25						

NR 2/4/10

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: T507,7496
Batch ID: VX438

Date: 2/7/10

Analyst Signature:

Standard Data

Ref #	Description
A	BFB MV4165
B	Internal Standard MV4169
C	8260 Standard MV4162, 4164, 4163, 4167
D	8260 BS/MS/MSD MV4175, 4173, 4152, 4168
E	Surrogate Standard MV4150
F	GRO Marker N/A
G	GRO Standard ⊥
H	GRO LCS ⊥

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC-435
Calibration Date: 2/4/10

Solvent ID #: RV100203

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	X0058884	bfb	5	8260	W	N/A	1	N/A	N/A	N/A	Y	40uL/40mL	NR
⊥	85	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥
⊥	86	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	pass around	⊥
B.C	87	CC435-40	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	20uL/150mL	⊥
B.D.E	88	bs	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	12.5uL/40mL	⊥
B.E	89	blk	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	clean up	⊥
B.D.E	90	bs	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	12.5uL/40mL	⊥
B.E	91	blk	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	clean up	⊥
⊥	92	mb	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥
B.D.E	93	bs	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	12.5uL/40mL	⊥
B.E	94	T46986-5	⊥	⊥	⊥	<2	⊥	⊥	2	⊥	⊥	⊥	⊥
⊥	95	⊥ -6	⊥	⊥	⊥	⊥	⊥	⊥	2	⊥	⊥	⊥	⊥
⊥	96	T46542-4	⊥	⊥	⊥	⊥	⊥	⊥	4	⊥	⊥	headspace	⊥
⊥	97	T46705-1	⊥	⊥	⊥	⊥	⊥	⊥	4	⊥	⊥	⊥	⊥
B.D.E	98	⊥ -ms	⊥	⊥	⊥	⊥	⊥	⊥	5	⊥	⊥	12.5uL/40mL	⊥
⊥	99	⊥ -msd	⊥	⊥	⊥	⊥	⊥	⊥	5	⊥	⊥	⊥	⊥
B.E	900	T46491-1	⊥	⊥	⊥	⊥	⊥	⊥	3	⊥	⊥	RRIX SURR↑	⊥
⊥	01	T46705-2	⊥	⊥	⊥	⊥	⊥	⊥	4	⊥	⊥	⊥	⊥
⊥	02	⊥ -3	⊥	⊥	⊥	⊥	↓	⊥	4	⊥	⊥	⊥	⊥
⊥	↓ 03	⊥ -4	⊥	⊥	⊥	⊥	20	⊥	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)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7507, 7496
Batch ID: VX438

Date: 2/7/10

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

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

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.
B.E	X0058904	H46705-5	5	8260	W	<2	21	N/A	4	N/A	Y		NR
	05	H46980-1							1				
	06	-2							1			RR IX SORT	
	07	-3							2				
	08	-4							3				
	09	blk				N/A			N/A			clean up	
	10	H46705-8				<2							
	11	blk				N/A	28		N/A			clean up	

NR 2/8/10

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: 7507, 7509 (7489, 7512)
Batch ID: VX439, 440

Date: 2/8/10 - 2/9/10

Analyst Signature:

Standard Data

Ref #	Description
A	BFB MV4165
B	Internal Standard MV4169
C	8260 Standard MV4162, 4164, 4181, 4178
D	8260 BS/MS/MSD MV4175, 4173, 4180, 4179
E	Surrogate Standard MV4176
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method VX439
Calibration Date: 2/8/10

Solvent ID #: RV100203

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	X0058913	bfb	5	8260	W	N/A	1	N/A	N/A	N/A	Y	40 uL/40mL	NR
B,C	14	cc435-20										10 uL/50mL	
	15	-40										20 uL/50mL	
B,D,E	16	bs										12.5 uL/40mL	
B,E	17	blk										cleanup	
	18	mb											
B,C	19	ic439-2										2 uL/100mL	
	20	-5										5 uL/100mL	
	21	-20										10 uL/50mL	
	22	ic439-40										20 uL/50mL	
	23	ic439-100										50 uL/50mL	
	24	-200										100 uL/50mL	
B,E	25	blk										cleanup	
B,D,E	26	icv439-40										25 uL/50mL	
	27	bs										12.5 uL/40mL	
B,E	28	blk										cleanup	
	29	mb											
	30	H46491-1				<2			2			STD Lot RR1X	
	31	H46705-2							5			~~[illegible]~~ failure DNR sample dilution	
	32	H47048-12					20		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)

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7507, 7509, 7489, 7512
Batch ID: VX439, 440

Date: 2/8/10-2/9/10

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

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
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.
B,D,E	X0058933	H47048-12ms	5	8260	W	<2	21	N/A	2	N/A	Y	12.5uL/40mL	NR
	34	-12msd							2				
B,E	35	-12						10	5			5mL/50mL	
	36	-14						N/A	2			RR10X	
	37	-16							2				
	38	blk				N/A			N/A			cleanup	
	39												
A	40	bfb										40uL/40mL pass scan 953	
B,C	41	CC439-40										20uL/50mL	
B,D,E	42	bs										12.5uL/40mL	
B,E	43	blk										cleanup	
	44	mb											
	45	H46603-8				<2			5			OK to report AR 2/9/10 cannot report cis1 in BS	
	46	-2				N/A		5	N/A			10mL/50mL	
	47	H46875-1				<2		N/A	1				
B,D,E	48	-1ms							2			12.5uL/40mL	
	49	-1msd							2				
B,E	50	-2							3				
	51	-3							1			RR1X, 50X	
	52	-4					40		1				

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: 7507, 7509, 7489 (TD12)
Batch ID: VX439, 440

Date: 2/8/10 - 2/9/10

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

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

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.
B,E	X00589053	H4687T5-5	5	8260	W	<2	41	N/A	3	N/A	Y	RR1x c/o	NR
	54	-6							3				
	55	-7							1			RR1x cis	
	56	-8							2				
	57	-9							3				
	58	-10							3			RR1x, 25X	
	59	-11							3			RR1x cis	
	60	-12							3				
	61	-13							3				
	62	-14							3				
	63	-15							3				
	64	blk				N/A	✓		N/A				
	65						53						

NR 2/8/10

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: N/A
Batch ID: VY2406

Date: 2/3/10

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV4165
B	Internal Standard MV4166
C	8260 Standard MV4162, 4164, 4163, 4167
D	8260 BS/MS/MSD MV4153, 4145, 4152, 4148
E	Surrogate Standard MV4001
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC2406
Calibration Date: 2/3/10

Solvent ID #: RV091210

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	Y003515	BFB	5	8260S		NA	1	N/A	N/A	N/A	Y	5µL 5mL Autoprep 17:50	JL
B,C	106	IC2406-4										4µL / 100mL	
	107	10										5µL / 50mL	
	108	20										5µL / 25mL	
	109	40										10µL /	
	70	70										17.5µL /	
	71	100										25µL /	
	72	200										50µL /	
B,E	73	BLK										CLEANUP BLK	
B,RE	74	ICV2406-40					10					12.5µL / 125mL	

VL 2/11/10

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.13

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7504
Batch ID: VY2412

Date: 2/8/10

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV4165
B	Internal Standard MV4169
C	8260 Standard MV4162 4164 4163, 4178
D	8260 BS/MS/MSD MV4175, 4173, 4180, 4179
E	Surrogate Standard MV4171
F	GRO Marker N/A
G	GRO Standard
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC24010
Calibration Date: 2/3/10

Solvent ID #: RN091210

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	Y0037074	BFB	5	8260	S	NA	1	NA	NA	NA	Y	5µL/5mL Autofind 9:46	JL
BC	77	CC24010-20										5µL/25mL	
BDE	78	BS										19.0µL/25mL	
BE	79	MB,50X						50X		Y		100µL MeOH/5mL	
	80	MB						1X		N			
	81	T46916-6	5.35									TRIP BLANK	
	82	1	~~5.17~~ 5.17										
	83	2	~~5.18~~ 5.18										
	84	3	5.18										
	85	5	5.16										
	86	T46917-1	5.04					100X		Y		5µL/5mL	
	87	T46980-1	5.09					1X		N			
	88	T46789-1	5.00										
	89	T46705-7	5.46					50X		Y		100µL/5mL	
BDE	90	7MS	5.46									+3µL/5mL	HIGH NAPH
	91	7MSD	5.46										
BE	92	6	5.09					100X				50µL/5mL	
	93	BLK	5					NA		NA		Cleanup BLK	
	94	T47082-1	5.07					1X		N		BTEXN ONLY	
	95	2	5.40				20						

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.21

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7504
Batch ID: VY2412

Date: 2/8/10

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 21

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg 21

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	10037696	T47082-5	5.83	8260	S	NA	21	1x	NA	N	Y		JL
	97	T47057-1	2.11					5x		Y		100mL/5mL - MTX int.	
	98	BLK	5					NA		NA		clean up blk	
	99												
	100												
↓	↓ 1	↓	↓	↓	↓	↓	20	↓	↓	↓	↓	↓ NAPH 1.76	↓

JL 2/11/10

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.22

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: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13976-MB	P08479.D	1	02/03/10	GJ	02/02/10	OP13976	EP403

The QC reported here applies to the following samples: **Method:** SW846 8270C

T46705-1, T46705-2, T46705-3, T46705-4, T46705-5

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	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	10-66%
4165-62-2	Phenol-d5	31%	10-53%
118-79-6	2,4,6-Tribromophenol	65%	32-128%
4165-60-0	Nitrobenzene-d5	70%	29-115%
321-60-8	2-Fluorobiphenyl	78%	34-113%
1718-51-0	Terphenyl-d14	83%	12-145%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1569-50-2	3-Penten-2-ol	2.37	7.7	ug/l	JN
	Total TIC, Semi-Volatile		7.7	ug/l	J

Method Blank Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13984-MB	P08482.D	1	02/03/10	GJ	02/03/10	OP13984	EP403

The QC reported here applies to the following samples: **Method:** SW846 8270C

T46705-6, T46705-7

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	170	31	ug/kg	
	3&4-Methylphenol	ND	170	93	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	26-124%
4165-62-2	Phenol-d5	80%	19-106%
118-79-6	2,4,6-Tribromophenol	63%	18-129%
4165-60-0	Nitrobenzene-d5	76%	18-104%
321-60-8	2-Fluorobiphenyl	82%	21-114%
1718-51-0	Terphenyl-d14	80%	24-149%

Method Blank Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13977-MB	H36827.D	1	02/03/10	SC	02/02/10	OP13977	EH1975

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T46705-1, T46705-2, T46705-3, T46705-4, T46705-5

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	38% [a]	17-131%
321-60-8	2-Fluorobiphenyl	42% [a]	15-137%
1718-51-0	Terphenyl-d14	65% [a]	10-160%

(a) Recovery was adjusted for 10x spiking.

Blank Spike Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13984-BS	P08483.D	1	02/03/10	GJ	02/03/10	OP13984	EP403

The QC reported here applies to the following samples: **Method:** SW846 8270C

T46705-6, T46705-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-48-7	2-Methylphenol	1670	1340	80	57-99
	3&4-Methylphenol	3330	3110	93	59-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	94%	26-124%
4165-62-2	Phenol-d5	94%	19-106%
118-79-6	2,4,6-Tribromophenol	88%	18-129%
4165-60-0	Nitrobenzene-d5	92%	18-104%
321-60-8	2-Fluorobiphenyl	93%	21-114%
1718-51-0	Terphenyl-d14	88%	24-149%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13976-BS	P08480.D	1	02/03/10	GJ	02/02/10	OP13976	EP403
OP13976-BSD	P08481.D	1	02/03/10	GJ	02/02/10	OP13976	EP403

The QC reported here applies to the following samples: **Method:** SW846 8270C

T46705-1, T46705-2, T46705-3, T46705-4, T46705-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	50	12.9	26	9.9	20	26	10-98/30
105-67-9	2,4-Dimethylphenol	50	27.4	55	27.3	55	0	27-87/30
95-48-7	2-Methylphenol	50	29.7	59	31.1	62	5	25-84/30
	3&4-Methylphenol	100	64.9	65	67.4	67	4	25-77/30
108-95-2	Phenol	50	17.9	36	18.5	37	3	10-53/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	49%	50%	10-66%
4165-62-2	Phenol-d5	34%	36%	10-53%
118-79-6	2,4,6-Tribromophenol	76%	77%	32-128%
4165-60-0	Nitrobenzene-d5	77%	77%	29-115%
321-60-8	2-Fluorobiphenyl	79%	79%	34-113%
1718-51-0	Terphenyl-d14	78%	83%	12-145%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13977-BS [a]	H36828.D	1	02/03/10	SC	02/02/10	OP13977	EH1975
OP13977-BSD [a]	H36829.D	1	02/03/10	SC	02/02/10	OP13977	EH1975

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T46705-1, T46705-2, T46705-3, T46705-4, T46705-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5	4.3	86	3.9	78	10	10-125/30
208-96-8	Acenaphthylene	5	3.7	74	2.8	56	28	10-141/30
120-12-7	Anthracene	5	4.4	88	4.8	96	9	13-139/30
56-55-3	Benzo(a)anthracene	5	4.5	90	4.6	92	2	24-151/30
50-32-8	Benzo(a)pyrene	5	4.1	82	4.2	84	2	36-146/30
205-99-2	Benzo(b)fluoranthene	5	4.7	94	4.7	94	0	27-159/30
207-08-9	Benzo(k)fluoranthene	5	5.1	102	4.8	96	6	26-157/30
218-01-9	Chrysene	5	4.5	90	4.6	92	2	26-146/30
53-70-3	Dibenzo(a,h)anthracene	5	4.3	86	4.6	92	7	23-161/30
206-44-0	Fluoranthene	5	4.7	94	4.9	98	4	20-140/30
86-73-7	Fluorene	5	4.9	98	4.4	88	11	16-126/30
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.1	82	4.4	88	7	25-153/30
91-20-3	Naphthalene	5	3.7	74	4.1	82	10	11-111/30
85-01-8	Phenanthrene	5	4.5	90	4.4	88	2	23-135/30
129-00-0	Pyrene	5	4.7	94	4.4	88	7	27-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	75% [b]	83% [b]	17-131%
321-60-8	2-Fluorobiphenyl	61% [b]	50% [b]	15-137%
1718-51-0	Terphenyl-d14	76% [b]	70% [b]	10-160%

(a) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
(b) Recovery was adjusted for 10x spiking.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13984-MS	P08517.D	4	02/04/10	GJ	02/03/10	OP13984	EP404
OP13984-MSD	P08518.D	4	02/04/10	GJ	02/03/10	OP13984	EP404
T46705-6 [a]	P08516.D	4	02/04/10	GJ	02/03/10	OP13984	EP404

The QC reported here applies to the following samples: **Method:** SW846 8270C

T46705-6, T46705-7

CAS No.	Compound	T46705-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	17500		1750	19400	109* [b]	23800	365* [b]	20	57-99/51
	3&4-Methylphenol	59000		3490	82100	662* [b]	98900	1155* [b]	19	59-100/53

CAS No.	Surrogate Recoveries	MS	MSD	T46705-6	Limits
367-12-4	2-Fluorophenol	61%	57%	50%	26-124%
4165-62-2	Phenol-d5	62%	59%	55%	19-106%
118-79-6	2,4,6-Tribromophenol	56%	48%	29%	18-129%
4165-60-0	Nitrobenzene-d5	83%	80%	64%	18-104%
321-60-8	2-Fluorobiphenyl	93%	88%	74%	21-114%
1718-51-0	Terphenyl-d14	93%	161%* [c]	74%	24-149%

(a) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by associated MS/MSD samples.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1975-DFTPP
Lab File ID: H36818.D
Instrument ID: GCMSH
Injection Date: 02/03/10
Injection Time: 11:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	8482	45.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	9511	50.6		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	8792	46.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	18782	100.0		Pass
199	5.0 - 9.0% of mass 198	1218	6.5		Pass
275	10.0 - 30.0% of mass 198	5444	29.0		Pass
365	1.0 - 100.0% of mass 198	392	2.1		Pass
441	Present, but less than mass 443	1859	9.9	(60.0) [b]	Pass
442	40.0 - 100.0% of mass 198	15548	82.8		Pass
443	17.0 - 23.0% of mass 442	3096	16.5	(19.9) [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
EH1975-IC1975	H36820.D	02/03/10	12:46	00:52	Initial cal 1
EH1975-IC1975	H36821.D	02/03/10	13:17	01:23	Initial cal 5
EH1975-IC1975	H36822.D	02/03/10	13:46	01:52	Initial cal 10
EH1975-IC1975	H36823.D	02/03/10	14:14	02:20	Initial cal 0.1
EH1975-IC1975	H36824.D	02/03/10	14:49	02:55	Initial cal 0.2
EH1975-ICC1975	H36825.D	02/03/10	15:54	04:00	Initial cal 2.5
EH1975-ICV1975	H36826.D	02/03/10	16:23	04:29	Initial cal verification 2.5
OP13977-MB	H36827.D	02/03/10	16:51	04:57	Method Blank
OP13977-BS	H36828.D	02/03/10	17:26	05:32	Blank Spike
OP13977-BSD	H36829.D	02/03/10	17:56	06:02	Blank Spike Duplicate
T46705-1	H36830.D	02/03/10	18:30	06:36	SW-3
T46705-2	H36831.D	02/03/10	19:00	07:06	SW-4
T46705-4	H36833.D	02/03/10	20:03	08:09	SW-2
T46705-5	H36834.D	02/03/10	20:31	08:37	SW-6
T46705-1	H36835.D	02/03/10	20:59	09:05	SW-3
T46705-3	H36836.D	02/03/10	21:28	09:34	SW-5
ZZZZZZ	H36837.D	02/03/10	22:04	10:10	(unrelated sample)
T46705-2	H36838.D	02/03/10	22:33	10:39	SW-4
ZZZZZZ	H36839.D	02/03/10	23:02	11:08	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample:	EH1975-DFTPP	**Injection Date:**	02/03/10
Lab File ID:	H36818.D	**Injection Time:**	11:54
Instrument ID:	GCMSH		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H36841.D	02/03/10	23:31	11:37	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-DFTPP
Lab File ID: P08267.D
Instrument ID: GCMSP
Injection Date: 01/22/10
Injection Time: 09:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	22181	48.0		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	20331	44.0		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	20955	45.4		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	46173	100.0		Pass
199	5.0 - 9.0% of mass 198	3114	6.7		Pass
275	10.0 - 30.0% of mass 198	9568	20.7		Pass
365	1.0 - 100.0% of mass 198	1052	2.3		Pass
441	Present, but less than mass 443	4423	9.6	(73.3) [b]	Pass
442	40.0 - 100.0% of mass 198	31357	67.9		Pass
443	17.0 - 23.0% of mass 442	6030	13.1	(19.2) [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
EP393-IC393	P08269A.D	01/22/10	10:02	00:54	Initial cal 5
EP393-IC393	P08270.D	01/22/10	10:35	01:27	Initial cal 10
EP393-IC393	P08271.D	01/22/10	11:07	01:59	Initial cal 25
EP393-ICC393	P08272.D	01/22/10	11:40	02:32	Initial cal 50
EP393-IC393	P08273.D	01/22/10	12:12	03:04	Initial cal 75
EP393-IC393	P08274.D	01/22/10	12:43	03:35	Initial cal 100
EP393-IC393	P08275.D	01/22/10	13:15	04:07	Initial cal 125
EP393-ICV393	P08276.D	01/22/10	13:49	04:41	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP402-DFTPP
Lab File ID: P08463.D
Instrument ID: GCMSP
Injection Date: 02/03/10
Injection Time: 10:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	30960	43.1		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	30075	41.9		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	32224	44.9		Pass
197	Less than 1.0% of mass 198	177	0.25		Pass
198	Base peak, 100% relative abundance	71837	100.0		Pass
199	5.0 - 9.0% of mass 198	4889	6.8		Pass
275	10.0 - 30.0% of mass 198	15953	22.2		Pass
365	1.0 - 100.0% of mass 198	1677	2.3		Pass
441	Present, but less than mass 443	7485	10.4	(71.1) [b]	Pass
442	40.0 - 100.0% of mass 198	55352	77.1		Pass
443	17.0 - 23.0% of mass 442	10531	14.7	(19.0) [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
EP402-ICC402	P08468.D	02/03/10	13:17	02:40	Initial cal 50
EP402-IC402	P08469.D	02/03/10	13:45	03:08	Initial cal 5
EP402-IC402	P08471.D	02/03/10	14:40	04:03	Initial cal 40
EP402-IC402	P08472.D	02/03/10	15:08	04:31	Initial cal 25
EP402-IC402	P08473.D	02/03/10	15:36	04:59	Initial cal 75
EP402-IC402	P08474.D	02/03/10	16:03	05:26	Initial cal 100
EP402-ICV402	P08475.D	02/03/10	16:31	05:54	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP403-DFTPP
Lab File ID: P08476.D
Instrument ID: GCMSP
Injection Date: 02/03/10
Injection Time: 17:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	57477	45.1		Pass
68	Less than 2.0% of mass 69	712	0.56	(1.3) [a]	Pass
69	Mass 69 relative abundance	53928	42.3		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	56875	44.6		Pass
197	Less than 1.0% of mass 198	703	0.55		Pass
198	Base peak, 100% relative abundance	127413	100.0		Pass
199	5.0 - 9.0% of mass 198	8733	6.9		Pass
275	10.0 - 30.0% of mass 198	26795	21.0		Pass
365	1.0 - 100.0% of mass 198	2985	2.3		Pass
441	Present, but less than mass 443	13441	10.5	(73.7) [b]	Pass
442	40.0 - 100.0% of mass 198	93501	73.4		Pass
443	17.0 - 23.0% of mass 442	18231	14.3	(19.5) [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
EP403-CC393	P08477.D	02/03/10	17:16	00:15	Continuing cal 50
EP403-CC402	P08478.D	02/03/10	17:47	00:46	Continuing cal 50
OP13976-MB	P08479.D	02/03/10	18:15	01:14	Method Blank
OP13976-BS	P08480.D	02/03/10	18:46	01:45	Blank Spike
OP13976-BSD	P08481.D	02/03/10	19:17	02:16	Blank Spike Duplicate
OP13984-MB	P08482.D	02/03/10	19:48	02:47	Method Blank
OP13984-BS	P08483.D	02/03/10	20:19	03:18	Blank Spike
T46705-1	P08487.D	02/03/10	22:20	05:19	SW-3
T46705-4	P08488.D	02/03/10	22:51	05:50	SW-2
T46705-5	P08489.D	02/03/10	23:22	06:21	SW-6
T46705-2	P08490.D	02/03/10	23:53	06:52	SW-4
T46705-3	P08491.D	02/04/10	00:24	07:23	SW-5
T46705-2	P08493.D	02/04/10	01:26	08:25	SW-4
T46705-7	P08495.D	02/04/10	02:28	09:27	TDM-2
EP403-ECC393	P08500.D	02/04/10	05:04	12:03	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP404-DFTPP
Lab File ID: P08501.D
Instrument ID: GCMSP
Injection Date: 02/04/10
Injection Time: 09:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	73720	46.0		Pass
68	Less than 2.0% of mass 69	1010	0.63	(1.4) [a]	Pass
69	Mass 69 relative abundance	70133	43.7		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	72429	45.2		Pass
197	Less than 1.0% of mass 198	895	0.56		Pass
198	Base peak, 100% relative abundance	160320	100.0		Pass
199	5.0 - 9.0% of mass 198	11112	6.9		Pass
275	10.0 - 30.0% of mass 198	34395	21.5		Pass
365	1.0 - 100.0% of mass 198	3577	2.2		Pass
441	Present, but less than mass 443	16769	10.5	(73.6) [b]	Pass
442	40.0 - 100.0% of mass 198	120547	75.2		Pass
443	17.0 - 23.0% of mass 442	22789	14.2	(18.9) [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
EP404-CC393	P08502.D	02/04/10	09:29	00:14	Continuing cal 50
ZZZZZZ	P08504.D	02/04/10	10:34	01:19	(unrelated sample)
ZZZZZZ	P08506.D	02/04/10	11:36	02:21	(unrelated sample)
ZZZZZZ	P08507.D	02/04/10	12:07	02:52	(unrelated sample)
ZZZZZZ	P08508.D	02/04/10	12:39	03:24	(unrelated sample)
ZZZZZZ	P08509.D	02/04/10	13:10	03:55	(unrelated sample)
ZZZZZZ	P08510.D	02/04/10	13:41	04:26	(unrelated sample)
ZZZZZZ	P08511.D	02/04/10	14:12	04:57	(unrelated sample)
ZZZZZZ	P08513.D	02/04/10	15:15	06:00	(unrelated sample)
ZZZZZZ	P08514.D	02/04/10	15:46	06:31	(unrelated sample)
ZZZZZZ	P08515.D	02/04/10	16:17	07:02	(unrelated sample)
T46705-6	P08516.D	02/04/10	16:48	07:33	TDM-1
OP13984-MS	P08517.D	02/04/10	17:19	08:04	Matrix Spike
OP13984-MSD	P08518.D	02/04/10	17:49	08:34	Matrix Spike Duplicate
T46705-7	P08519.D	02/04/10	18:20	09:05	TDM-2
ZZZZZZ	P08520.D	02/04/10	18:51	09:36	(unrelated sample)
ZZZZZZ	P08521.D	02/04/10	19:22	10:07	(unrelated sample)
EP404-ECC393	P08523.D	02/04/10	20:25	11:10	Ending cal 51

Semivolatile Internal Standard Area Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EH1975-ICC1975 **Injection Date:** 02/03/10
Lab File ID: H36825.D **Injection Time:** 15:54
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	7740	6.63	9351	8.38	6937	10.35	11894	11.87	18625	14.98	5985	17.82
Upper Limit [a]	15480	7.13	18702	8.88	13874	10.85	23788	12.37	37250	15.48	11970	18.32
Lower Limit [b]	3870	6.13	4676	7.88	3469	9.85	5947	11.37	9313	14.48	2993	17.32

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
OP13977-MB	7789	6.63	10407	8.38	6527	10.35	13182	11.87	20973	14.98	5979	17.81
OP13977-BS [c]	6207	6.63	8124	8.38	5860	10.35	10308	11.87	13007	14.98	3024	17.82
OP13977-BSD [c]	8240	6.63	9943	8.38	8790	10.35	13677	11.87	19458	14.98	5464	17.82
T46705-1	9375	6.63	12148	8.38	8008	10.35	15872	11.87	23689	14.98	5772	17.82
T46705-2 [d]	9651	6.63	11813	8.38	29743*	10.35	16974	11.87	23751	14.98	4625	17.82
T46705-4	9323	6.63	10416	8.38	9408	10.35	16090	11.87	22033	14.99	5256	17.82
T46705-5	11171	6.63	13697	8.38	9991	10.35	18680	11.87	27142	14.98	5963	17.82
T46705-1	10455	6.63	16628	8.38	10737	10.35	18282	11.87	25467	14.98	4294	17.82
T46705-3	9253	6.63	11024	8.38	7958	10.35	16308	11.87	21131	14.98	4096	17.82
ZZZZZZ	9641	6.63	12182	8.38	9251	10.35	16689	11.87	23432	14.98	4932	17.81
T46705-2 [d]	10341	6.63	21649*	8.38	282088*	10.41	16252	11.88	9524	14.98	1276*	17.82
ZZZZZZ	10073	6.63	15696	8.38	14755*	10.35	14986	11.88	6449*	14.98	2531*	17.82
ZZZZZZ	9327	6.63	11187	8.38	8382	10.35	13277	11.87	15350	14.98	3761	17.83

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.
(d) Internal standards are not within the advisory limits due to a matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EP403-CC393	**Injection Date:**	02/03/10
Lab File ID:	P08477.D	**Injection Time:**	17:16
Instrument ID:	GCMSP	**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	422270	5.16	1553031	6.47	1046992	9.08	1825839	11.95	1638407	17.54	1135872	20.41
Upper Limit [a]	844540	5.66	3106062	6.97	2093984	9.58	3651678	12.45	3276814	18.04	2271744	20.91
Lower Limit [b]	211135	4.66	776516	5.97	523496	8.58	912920	11.45	819204	17.04	567936	19.91

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
OP13976-MB	534130	5.16	1859031	6.46	1174493	9.07	1894044	11.93	1535941	17.52	1100633	20.40
OP13976-BS	442339	5.16	1565355	6.46	1017713	9.08	1694634	11.94	1528139	17.53	1078914	20.40
OP13976-BSD	474795	5.16	1740796	6.46	1147889	9.08	1949331	11.94	1598757	17.54	1120688	20.40
OP13984-MB	457606	5.16	1535357	6.46	966630	9.07	1485778	11.93	1149611	17.52	805603	20.40
OP13984-BS	484295	5.16	1752862	6.47	1147986	9.08	1945608	11.94	1671157	17.54	1193690	20.41
T46705-1	542370	5.16	1871753	6.46	1214603	9.07	2005708	11.93	1720258	17.52	1087835	20.40
T46705-4	538236	5.16	1851853	6.46	1166941	9.07	1819132	11.93	1355706	17.52	918822	20.40
T46705-5	492423	5.16	1698245	6.46	1070831	9.07	1676889	11.93	1412136	17.52	1043008	20.40
T46705-2	529423	5.16	1844105	6.47	1211727	9.09	2098349	11.95	1583978	17.53	596063	20.41
T46705-3	521913	5.16	1812293	6.46	1149274	9.07	1859784	11.93	1633209	17.53	1012701	20.41
T46705-2	530154	5.16	1764764	6.47	1095940	9.08	1677454	11.94	1290766	17.53	762215	20.41
T46705-7 [c]	577536	5.16	1978743	6.47	1292675	9.08	2205309	11.95	1436109	17.56	806309	20.43
EP403-ECC393	652395	5.17	2507448	6.48	1699566	9.10	3028418	11.98	1943668	17.57	1080054	20.43

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) Elevated reporting limits are not within advisory limits due to matrix interference, final volume of 20ml.

Semivolatile Internal Standard Area Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EP404-CC393	**Injection Date:**	02/04/10
Lab File ID:	P08502.D	**Injection Time:**	09:29
Instrument ID:	GCMSP	**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	536430	5.16	1978930	6.47	1302379	9.08	2192963	11.96	1249474	17.53	826140	20.38
Upper Limit [a]	1072860	5.66	3957860	6.97	2604758	9.58	4385926	12.46	2498948	18.03	1652280	20.88
Lower Limit [b]	268215	4.66	989465	5.97	651190	8.58	1096482	11.46	624737	17.03	413070	19.88

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
ZZZZZZ	604889	5.16	2082116	6.46	1333767	9.07	2078784	11.93	1345648	17.51	913041	20.37
ZZZZZZ	611152	5.16	2068517	6.46	1360854	9.07	2079857	11.93	1238186	17.52	715494	20.42
ZZZZZZ	588794	5.16	2042091	6.46	1349306	9.07	2182464	11.93	1387684	17.52	962504	20.40
ZZZZZZ	615790	5.16	2112778	6.46	1392542	9.08	2189324	11.94	1235370	17.53	785050	20.41
ZZZZZZ	618298	5.16	2132060	6.46	1397696	9.08	2334945	11.94	1584313	17.52	1059042	20.39
ZZZZZZ	1055146	5.16	3661866	6.47	2153386	9.08	2318016	11.96	371231*	17.57	159258*	20.48
ZZZZZZ	683275	5.16	2464615	6.47	1557488	9.08	2170661	11.96	539022*	17.59	243780*	20.47
ZZZZZZ	579819	5.16	2069357	6.47	1195825	9.09	1219832	11.97	170149*	17.60	76098*	20.49
ZZZZZZ	473780	5.16	1646341	6.47	1109882	9.09	1676651	11.95	679203	17.54	223386*	20.41
ZZZZZZ	493540	5.16	1730513	6.47	1133360	9.08	1747893	11.94	678331	17.53	239872*	20.40
T46705-6 [c]	415184	5.16	1233577	6.48	969496	9.10	1146256	12.04	428702*	17.62	201102*	20.45
OP13984-MS	426719	5.16	1188436	6.49	949664	9.10	928875*	12.07	337541*	17.62	150202*	20.45
OP13984-MSD	452875	5.16	1218762	6.50	960663	9.11	894618*	12.06	256264*	17.65	155562*	20.48
T46705-7 [d]	377244	5.16	1423703	6.47	994977	9.08	1213926	11.97	364128*	17.59	151535*	20.44
ZZZZZZ	532635	5.16	2061018	6.47	1370051	9.09	1653017	11.97	259106*	17.60	102051*	20.48
ZZZZZZ	380292	5.16	1747500	6.47	1285897	9.09	1908177	11.96	452453*	17.58	140213*	20.45
EP404-ECC393	698245	5.17	2672850	6.48	1783001	9.10	2885715	11.98	1216553	17.57	482186	20.43

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) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by associated MS/MSD samples.
(d) Elevated reporting limits and internal standards are not within advisory limits due to matrix interference, final volume of 20 ml. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: T46705
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
T46705-1	P08487.D	44.0	36.0	85.0	69.0	74.0	81.0
T46705-2	P08493.D	34.0	29.0	87.0	67.0	81.0	94.0
T46705-2	P08490.D	38.0	32.0	94.0	67.0	65.0	92.0
T46705-3	P08491.D	42.0	33.0	79.0	68.0	75.0	76.0
T46705-4	P08488.D	34.0	27.0	67.0	57.0	57.0	85.0
T46705-5	P08489.D	36.0	28.0	68.0	60.0	62.0	75.0
OP13976-BS	P08480.D	49.0	34.0	76.0	77.0	79.0	78.0
OP13976-BSD	P08481.D	50.0	36.0	77.0	77.0	79.0	83.0
OP13976-MB	P08479.D	38.0	31.0	65.0	70.0	78.0	83.0

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%

Semivolatile Surrogate Recovery Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8270C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
T46705-6	P08516.D	50.0	55.0	29.0	64.0	74.0	74.0
T46705-7	P08495.D	0.0* [a]	0.0* [a]	0.0* [a]			
T46705-7	P08519.D	11.0* [a]	10.0* [a]	0.0* [a]			
OP13984-BS	P08483.D	94.0	94.0	88.0	92.0	93.0	88.0
OP13984-MB	P08482.D	65.0	80.0	63.0	76.0	82.0	80.0
OP13984-MS	P08517.D	61.0	62.0	56.0	83.0	93.0	93.0
OP13984-MSD	P08518.D	57.0	59.0	48.0	80.0	88.0	161.0* [a]

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	26-124%
S2 = Phenol-d5	19-106%
S3 = 2,4,6-Tribromophenol	18-129%
S4 = Nitrobenzene-d5	18-104%
S5 = 2-Fluorobiphenyl	21-114%
S6 = Terphenyl-d14	24-149%

(a) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: T46705
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
T46705-1	H36835.D	35.0 [a]	30.0 [a]	76.0 [a]
T46705-1	H36830.D	42.0 [a]	58.0 [a]	71.0 [a]
T46705-2	H36838.D	40.0 [a]	0.8* [b]	205.0* [b]
T46705-2	H36831.D	37.0 [a]	18.0 [a]	73.0 [a]
T46705-3	H36836.D	48.0 [a]	47.0 [a]	75.0 [a]
T46705-4	H36833.D	41.0 [a]	28.0 [a]	67.0 [a]
T46705-5	H36834.D	35.0 [a]	35.0 [a]	65.0 [a]
OP13977-BS	H36828.D	75.0 [a]	61.0 [a]	76.0 [a]
OP13977-BSD	H36829.D	83.0 [a]	50.0 [a]	70.0 [a]
OP13977-MB	H36827.D	38.0 [a]	42.0 [a]	65.0 [a]

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 matrix interference.

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1975-ICC1975
Lab FileID: H36825.D

```
                        Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Wed Feb 03 16:18:45 2010
 Response via : Initial Calibration

 Calibration Files
 0.1 =H36823.D    5   =H36821.D    1   =H36820.D    2.5 =H36825.D
 0.2 =H36824.D    10  =H36822.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl 0.249 0.214 0.242 0.220 0.279 0.185       0.232  14.06
 3)I N-Nitroso-di-n-pr 0.431 0.270 0.413 0.285 0.523 0.310       0.372  26.84
            ---- Quadratic regression ----  Coefficient =  0.9975
              Response Ratio = 0.02035 + 0.22454 *A + 0.03066 *A^2


 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.856 0.742 1.216 0.743 0.833 0.669       0.843  23.10
            ---- Quadratic regression ----  Coefficient =  0.9953
              Response Ratio = 0.10833 + 0.78552 *A + -0.01277 *A^2

 6)T Naphthalene       1.639 0.940 1.560 1.002 1.264 0.729       1.189  30.43
            ---- Quadratic regression ----  Coefficient =  0.9957
              Response Ratio = 0.03595 + 1.10642 *A + -0.15711 *A^2

 7)  2-Methylnaphthale 0.519 0.679 0.938 0.577 0.617 0.594       0.654  22.73
            ---- Quadratic regression ----  Coefficient =  0.9946
              Response Ratio = 0.00359 + 0.70813 *A + -0.04549 *A^2

 8)  1-Methylnaphthale 0.803 1.089 1.620 0.928 0.827 0.939       1.034  29.40
            ---- Quadratic regression ----  Coefficient =  0.9928
              Response Ratio = 0.00824 + 1.15140 *A + -0.08529 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  8.663 4.490 7.134 4.616 6.023 2.884       5.635  36.78
            ---- Quadratic regression ----  Coefficient =  0.9938
              Response Ratio = 0.40099 + 5.72757 *A + -0.28755 *A^2

11)T Acenaphthylene    2.983 2.377 3.703 2.276 2.207 2.002       2.591  24.58
            ---- Quadratic regression ----  Coefficient =  0.9950
              Response Ratio = 0.05163 + 2.61493 *A + -0.25268 *A^2

12)T Acenaphthene      1.940 1.417 1.283 1.497 1.512 1.708       1.560  14.90
13)  Dibenzofuran      1.720 1.385 2.086 1.269 1.538 1.154       1.525  22.24
            ---- Quadratic regression ----  Coefficient =  0.9945
              Response Ratio = 0.02806 + 1.50459 *A + -0.14384 *A^2

14)T Fluorene          1.622 0.791 0.985 0.858 1.397 0.846       1.083  31.75
            ---- Quadratic regression ----  Coefficient =  0.9993
              Response Ratio = 0.04061 + 0.72809 *A + 0.04002 *A^2


15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.403 0.407 0.276 0.348 0.306 0.966       0.451  57.09
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1975-ICC1975
Lab FileID: H36825.D

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            ---- Quadratic regression ----  Coefficient =  0.9974
              Response Ratio = 0.32213 + -0.09598 *A + 0.05206 *A^2

17)  Pentachlorophenol 0.218 0.609 0.040 0.451 0.060 0.980       0.393  92.56
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.02129 + 0.26500 *A + 0.28961 *A^2

18)T Phenanthrene      1.986 1.948 1.723 1.894 1.868 1.637       1.843   7.34
19)T Anthracene        1.587 1.393 1.275 1.926 1.611 1.775       1.594  15.00
20)T Fluoranthene      2.139 2.077 2.004 2.268 1.898 2.073       2.077   6.00

21) I   Chrysene-d12          ----------------ISTD---------------------
22)T Pyrene            1.568 1.714 1.716 1.531 1.576 1.515       1.603   5.57
23)S Terphenyl-d14     0.848 0.993 0.923 0.878 0.870 0.871       0.897   5.92
24)T Benzo[a]anthracen 1.775 1.576 1.449 1.552 1.495 1.509       1.559   7.35
25)T Chrysene          1.694 1.559 1.449 1.575 1.561 1.468       1.551   5.65

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 2.394 2.700 2.167 2.569 1.854 2.998       2.447  16.50
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.03032 + 2.43819 *A + 0.22892 *A^2

28)T Benzo[k]fluoranth 3.147 3.189 2.951 2.995 2.765 3.165       3.035   5.41
29)T Benzo[a]pyrene    1.383 1.762 1.433 1.654 1.263 1.911       1.568  15.84
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.02409 + 1.62175 *A + 0.11995 *A^2

30)T Indeno[1,2,3-cd]p 0.248 0.569 0.448 0.558 0.637 0.644       0.517  28.98
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00305 + 0.50607 *A + 0.05561 *A^2

31)T Dibenz[a,h]anthra 0.268 0.409 0.383 0.387 0.347 0.483       0.380  18.69
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = 0.00202 + 0.34037 *A + 0.05673 *A^2

32)T Benzo[g,h,i]peryl 0.578 0.445 0.329 0.416 0.358 0.485       0.435  20.70
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00480 + 0.40222 *A + 0.03422 *A^2

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

          H20310SP.M        Wed Feb 03 16:44:39 2010
```

7.8.1

7

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1975-ICV1975
Lab FileID: H36826.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1975\H36826.D            Vial: 9
Acq On    :  3 Feb 2010   4:23 pm                   Operator: sheilac
Sample    : icv1975-2.5                             Inst    : TXMSH
Misc      : OP13411,EH1975,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Wed Feb 03 16:52:59 2010
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	89	0.00	6.63
2	I	N-Nitrosodimethylamine	0.232	0.196	15.5	79	0.00	3.19
		----------	Amount	Calc.	%Drift		----------	
3	I	N-Nitroso-di-n-propylamin	2.500	2.385	4.6	82	0.03	7.23
		----------	AvgRF	CCRF	%Dev		----------	
4	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00	8.38
		----------	Amount	Calc.	%Drift		----------	
5	S	Nitrobenzene-d5		----------NA----------				
6	T	Naphthalene	2.500	1.898	24.1	80	0.00	8.38
7		2-Methylnaphthalene	2.500	2.121	15.2	97	0.00	9.21
8		1-Methylnaphthalene	2.500	2.569	-2.8	117	0.00	9.33
		----------	AvgRF	CCRF	%Dev		----------	
9	I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00	10.35
		----------	Amount	Calc.	%Drift		----------	
10	S	2-Fluorobiphenyl		----------NA----------				
11	T	Acenaphthylene	2.500	2.464	1.4	83	0.00	10.18
		----------	AvgRF	CCRF	%Dev		----------	
12	T	Acenaphthene	1.560	1.207	22.6	60	0.00	10.38
		----------	Amount	Calc.	%Drift		----------	
13		Dibenzofuran	2.500	2.467	1.3	85	0.00	10.55
14	T	Fluorene	2.500	2.175	13.0	63	0.00	10.93
		----------	AvgRF	CCRF	%Dev		----------	
15	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	11.87
		----------	Amount	Calc.	%Drift		----------	
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol	2.500	2.015	19.4	58	0.00	11.71
		----------	AvgRF	CCRF	%Dev		----------	
18	T	Phenanthrene	1.843	1.666	9.6	78	0.00	11.88
19	T	Anthracene	1.594	1.428	10.4	65	0.00	11.94

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1975-ICV1975
Lab FileID: H36826.D

20	T	Fluoranthene	2.077	1.941	6.5	75	0.00	13.08
21	I	Chrysene-d12	1.000	1.000	0.0	78	0.00	14.98
22	T	Pyrene	1.603	1.366	14.8	70	-0.02	13.33
23	S	Terphenyl-d14		----------NA----------				
24	T	Benzo[a]anthracene	1.559	1.373	11.9	69	-0.02	14.95
25	T	Chrysene	1.551	1.364	12.1	68	0.00	15.02
26	I	Perylene-d12	1.000	1.000	0.0	71	0.00	17.81
		----------	Amount	Calc.	%Drift		----------	
27	T	Benzo[b]fluoranthene	2.500	2.288	8.5	64	0.00	16.99
		----------	AvgRF	CCRF	%Dev		----------	
28	T	Benzo[k]fluoranthene	3.035	2.593	14.6	62	0.00	17.04
		----------	Amount	Calc.	%Drift		----------	
29	T	Benzo[a]pyrene	2.500	1.880	24.8	53	0.00	17.69
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.001	20.0	54	0.00	20.32
31	T	Dibenz[a,h]anthracene	2.500	1.907	23.7	52	0.00	20.37
32	T	Benzo[g,h,i]perylene	2.500	1.979	20.8	56	0.00	20.99

H36825.D H20310SP.M Wed Feb 03 16:54:31 2010

7.8.2

7

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP393-ICC393
Lab FileID: P08272.D

Response Factor Report GCMS P

Method : C:\msdchem\1\METHODS\ep393a9.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Fri Jan 22 14:55:03 2010
Response via : Initial Calibration

Calibration Files
5 =p08269a.D 25 =p08271.D 50 =p08272.D 75 =p08273.D
100 =p08274.D 125 =p08275.D 10 =p08270.D

Compound	5	25	50	75	100	125	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) bis(Chloromethyl)	1.510	1.695	1.631	1.555	1.607	1.627	1.520	1.592	4.19
3) 1,4-Dioxane	0.604	0.651	0.637	0.611	0.646	0.652	0.602	0.629	3.58
4) N-nitrosodimethyl	0.728	0.828	0.830	0.830	0.856	0.854	0.735	0.809	6.67
5) Pyridine	1.471	1.684	1.696	1.718	1.793	1.793	1.491	1.664	7.94
6) 2-Picoline	1.749	1.960	1.969	2.025	2.103	2.084	1.711	1.943	7.99
7) N-Nitrosomethylet	0.996	1.136	1.155	1.160	1.197	1.169	0.986	1.114	7.74
8) Methyl methanesul	0.979	1.061	1.035	1.040	1.055	1.023	0.934	1.018	4.51
9) N-Nitrosodiethyla	0.846	0.898	0.885	0.890	0.916	0.895	0.812	0.878	4.08
10) Ethyl methanesulf	1.343	1.410	1.420	1.464	1.503	1.480	1.274	1.413	5.74
11) Benzaldehyde	1.102	0.758	0.419	0.277	0.225	0.232	0.320	0.476	69.68
12) Aniline	2.403	2.289	1.986	1.900	1.857	1.635	2.325	2.057	13.94
13)S 2-Fluorophenol	1.627	1.623	1.442	1.345	1.389	1.349	1.560	1.476	8.45
14) bis(2-Chloroethyl	1.998	1.724	1.705	1.614	1.707	1.757	1.783	1.755	6.79
15)S Phenol-d5	2.118	1.839	1.600	1.511	1.559	1.488	1.958	1.725	14.34
16)C Phenol	2.195	2.142	1.892	1.796	1.818	1.735	2.040	1.945	9.28
17) 2-Chlorophenol	1.598	1.629	1.511	1.455	1.498	1.444	1.524	1.523	4.53
18) 1,3-Dichlorobenze	1.952	2.002	1.844	1.754	1.833	1.773	1.897	1.865	4.88
19)C 1,4-Dichlorobenze	1.823	1.868	1.717	1.655	1.700	1.665	1.777	1.744	4.65
20) 1,2-Dichlorobenze	1.852	1.831	1.546	1.446	1.497	1.461	1.781	1.631	11.18
21) Benzyl alcohol	1.054	1.137	1.021	1.010	1.034	1.013	1.036	1.044	4.22
22) bis(2-chloroisopr	3.581	3.595	3.262	2.985	3.024	2.840	3.419	3.244	9.30
23) 2-Methylphenol	1.589	1.598	1.549	1.661	1.713	1.659	1.530	1.614	4.08
24) N-Nitrosopyrrolid	0.897	0.859	0.698	0.652	0.673	0.616	0.857	0.750	15.55
---- Quadratic regression ---- Coefficient = 0.9965									
Response Ratio = 0.04016 + 0.73080 *A + -0.03913 *A^2									
25) N-Nitrosomorpholi	1.332	1.287	1.085	1.002	0.989	0.852	1.246	1.113	16.10
---- Quadratic regression ---- Coefficient = 0.9968									
Response Ratio = 0.01223 + 1.27234 *A + -0.13168 *A^2									
26) o-Toluidine	2.608	2.442	2.111	2.017	2.067	2.011	2.480	2.248	11.24
27) Acetophenone	2.249	2.092	2.002	1.988	2.041	1.966	2.091	2.061	4.67
28) Hexachloroethane	0.739	0.778	0.714	0.664	0.658	0.571	0.715	0.691	9.74
29)P N-Nitroso-di-n-pr	1.354	1.236	1.064	1.013	1.070	1.001	1.252	1.141	12.05
30) 3&4-Methylphenol	1.765	1.735	1.444	1.292	1.295	1.239	1.687	1.494	15.38
---- Quadratic regression ---- Coefficient = 0.9974									
Response Ratio = 0.09457 + 1.43815 *A + -0.07512 *A^2									
31) I Naphthalene-d8	----------ISTD----------								
32)S Nitrobenzene-d5	0.587	0.547	0.490	0.460	0.463	0.439	0.530	0.502	10.73
33) Nitrobenzene	0.554	0.528	0.467	0.435	0.433	0.413	0.510	0.477	11.37
34) N-Nitrosopiperidi	0.410	0.420	0.392	0.373	0.378	0.361	0.379	0.387	5.45
35) A,A-Dimethylphene	1.274	1.805	1.674	1.718	1.815	1.713	1.484	1.641	11.89
36) Isophorone	1.090	1.045	0.954	0.934	0.957	0.907	0.992	0.983	6.56

Initial Calibration Summary

Job Number: T46705 **Sample:** EP393-ICC393
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** P08272.D
Project: Vertellus-Provo

```
37)C 2-Nitrophenol     0.219 0.250 0.235 0.226 0.228 0.214 0.218 0.227   5.43
38)  2,4-Dimethylpheno 0.495 0.492 0.435 0.397 0.395 0.368 0.461 0.435  11.57
39)  bis(2-Chloroethox 0.651 0.586 0.525 0.495 0.490 0.462 0.585 0.542  12.48
40)  O,O,O-Triethyl ph 0.233 0.201 0.163 0.136 0.131       0.194 0.176  22.58
            ---- Quadratic regression ----  Coefficient =  0.9941
              Response Ratio = 0.00995 + 0.17999 *A + -0.02216 *A^2

41)  Benzoic Acid            0.110 0.155 0.201 0.206 0.194 0.047 0.152  41.39
            ---- Quadratic regression ----  Coefficient =  0.9922
              Response Ratio = -0.06455 + 0.23686 *A + -0.00566 *A^2

42)C 2,4-Dichloropheno 0.350 0.383 0.349 0.323 0.325 0.308 0.344 0.340   7.22
43)  1,2,4-Trichlorobe 0.436 0.424 0.379 0.357 0.355 0.334 0.403 0.384   9.93
44)  Naphthalene       1.347 1.238 1.081 1.001 1.006 0.959 1.227 1.123  13.18
45)  4-Chloroaniline   0.487 0.525 0.479 0.430 0.428 0.402 0.486 0.462   9.34
46)  2,6-Dichloropheno 0.358 0.361 0.310 0.274 0.275 0.260 0.339 0.311  13.64
47)  Hexachloropropene 0.157 0.216 0.202 0.192 0.182 0.163 0.182 0.185  11.30
48)C Hexachlorobutadie 0.271 0.261 0.233 0.217 0.219 0.206 0.249 0.236  10.34
49)  p-Phenylenediamin       0.181 0.167 0.139 0.128       0.022 0.127  49.20
50)  Caprolactam       0.142 0.167 0.159 0.159 0.178 0.170 0.139 0.159   8.98
51)  N-Nitrosodi-n-but 0.442 0.361 0.325 0.320 0.327 0.312 0.415 0.357  14.41
52)C 4-Chloro-3-methyl 0.375 0.414 0.353 0.320 0.332 0.323 0.372 0.355   9.56
53)  Isosafrole        0.355 0.351 0.295 0.268 0.273 0.261 0.335 0.305  13.29
54)  2-Methylnaphthale 0.864 0.851 0.740 0.689 0.705 0.675 0.815 0.763  10.42
55)  1-Methylnaphthale 0.855 0.836 0.728 0.680 0.676 0.646 0.800 0.746  11.28
56)  1,2,4,5-Tetrachlo 0.390 0.387 0.340 0.324 0.330 0.314 0.369 0.351   8.86

57) I   Acenaphthene-d10      ----------------ISTD---------------------
58)P Hexachlorocyclope 0.010 0.124 0.150 0.187 0.179       0.052 0.117  61.20
            ---- Quadratic regression ----  Coefficient =  0.9941
              Response Ratio = -0.02872 + 0.17407 *A + 0.00827 *A^2

59)C 2,4,6-Trichloroph 0.362 0.410 0.392 0.398 0.412 0.405 0.363 0.392   5.37
60)  2,4,5-Trichloroph 0.353 0.365 0.344 0.351 0.361 0.355 0.355 0.355   1.96
61)S 2-Fluorobiphenyl  1.861 1.490 1.276 1.233 1.254 1.208 1.623 1.421  17.44
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = 0.20330 + 1.23813 *A + -0.00917 *A^2

62)  Safrole           0.584 0.572 0.512 0.494 0.500 0.487 0.549 0.528   7.49
63)  1,1'-Biphenyl     1.796 1.583 1.351 1.278 1.278 1.240 1.600 1.446  14.73
64)  2-Chloronaphthale 1.608 1.521 1.323 1.363 1.487 1.494 1.524 1.474   6.70
65)  1-Chloronaphthale 1.296 1.155 0.994 0.816 0.713       1.104 1.013  21.51
            ---- Quadratic regression ----  Coefficient =  0.9981
              Response Ratio = 0.00617 + 1.23807 *A + -0.21384 *A^2

66)  2-Nitroaniline    0.440 0.454 0.433 0.439 0.458 0.454 0.421 0.443   2.99
67)  1,4-Naphthoquinon 0.482 0.472 0.400 0.364 0.365 0.384 0.505 0.424  14.07
68)  Acenaphthylene    2.211 2.030 1.762 1.726 1.777 1.735 2.019 1.894  10.10
69)  Dimethylphthalate 1.710 1.640 1.528 1.538 1.608 1.574 1.538 1.591   4.20
70)  m-Dinitrobenzene  0.232 0.256 0.247 0.237 0.243 0.234 0.227 0.239   4.23
71)  2,6-Dinitrotoluen 0.392 0.381 0.349 0.335 0.341 0.331 0.359 0.355   6.65
72)C Acenaphthene      1.405 1.318 1.162 1.117 1.148 1.109 1.285 1.221   9.44
73)  3-Nitroaniline    0.300 0.363 0.351 0.340 0.353 0.337 0.298 0.334   7.72
74)P 2,4-Dinitrophenol 0.019 0.119 0.147 0.174 0.188 0.186 0.054 0.127  52.59
            ---- Quadratic regression ----  Coefficient =  0.9977
              Response Ratio = -0.02786 + 0.16818 *A + 0.00969 *A^2

75)  Dibenzofuran      1.751 1.641 1.465 1.453 1.496 1.456 1.613 1.553   7.48
76)  Pentachlorobenzen 0.544 0.538 0.488 0.488 0.506 0.493 0.500 0.508   4.60
77)  2,4-Dinitrotoluen 0.423 0.437 0.414 0.434 0.457 0.461 0.406 0.433   4.78
```

Initial Calibration Summary

Job Number: T46705 **Sample:** EP393-ICC393
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** P08272.D
Project: Vertellus-Provo

```
 78)P 4-Nitrophenol     0.085 0.149 0.151 0.143 0.137 0.145 0.109 0.131  18.87
             ---- Linear regression ----  Coefficient =  0.9973
               Response Ratio = -0.00303 + 0.14408 *A

 79)  1-Naphthylamine   0.574 0.980 0.925 0.896 0.910 0.828 0.471 0.798  24.52
             ---- Quadratic regression ----  Coefficient =  0.9976
               Response Ratio = -0.10329 + 1.12909 *A + -0.08277 *A^2

 80)  2-Naphthylamine   0.267 0.843 0.822 0.789 0.802 0.734 0.218 0.639  42.79
             ---- Linear regression ----  Coefficient =  0.9904
               Response Ratio = -0.03037 + 0.78256 *A

 81)  2,3,4,6-Tetrachlo 0.110 0.258 0.269 0.273 0.282 0.277 0.145 0.231  30.98
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = -0.02490 + 0.28778 *A

 82)  Fluorene          1.478 1.310 1.132 1.090 1.132 1.107 1.355 1.229  12.32
 83)  4-Chlorophenyl-ph 0.774 0.670 0.567 0.544 0.558 0.536 0.693 0.620  14.83
 84)  Diethylphthalate  1.675 1.629 1.482 1.435 1.486 1.450 1.530 1.527   6.02
 85)  5-Nitro-o-toluidi 0.367 0.421 0.406 0.405 0.424 0.410 0.366 0.400   5.96
 86)  Thionazin         0.383 0.356 0.299 0.268 0.266 0.250 0.352 0.311  17.01
             ---- Quadratic regression ----  Coefficient =  0.9979
               Response Ratio = 0.01802 + 0.30665 *A + -0.02020 *A^2

 87)  4-Nitroaniline    0.279 0.335 0.329 0.330 0.350 0.336 0.286 0.321   8.42

 88) I   Phenanthrene-d10      ----------------ISTD---------------------
 89)  4,6-Dinitro-2-met 0.077 0.141 0.145 0.149 0.146 0.134 0.100 0.127  21.75
             ---- Quadratic regression ----  Coefficient =  0.9988
               Response Ratio = -0.01750 + 0.17984 *A + -0.01223 *A^2

 90)C n-Nitrosodiphenyl 0.918 0.850 0.744 0.699 0.677 0.627 0.811 0.761  13.60
 91)  1,2-Diphenylhydra 1.077 1.062 0.933 0.972 0.949 0.885 0.982 0.980   7.01
 92)  Diphenylamine     0.918 0.850 0.744 0.699 0.677 0.627 0.811 0.761  13.60
 93)S 2,4,6-Tribromophe 0.101 0.111 0.103 0.104 0.106 0.103 0.099 0.104   3.74
 94)  Tetraethyl dithio 0.188 0.166 0.142 0.132 0.131 0.122 0.162 0.149  15.74
             ---- Quadratic regression ----  Coefficient =  0.9989
               Response Ratio = 0.00636 + 0.14944 *A + -0.00920 *A^2

 95)  sym-Trinitrobenze 0.067 0.097 0.098 0.084 0.084 0.079 0.074 0.083  13.65
 96)  Diallate          0.635 0.526 0.431 0.395 0.387 0.364 0.534 0.467  21.35
             ---- Quadratic regression ----  Coefficient =  0.9984
               Response Ratio = 0.03440 + 0.43913 *A + -0.02766 *A^2

 97)  Phorate           0.867 0.825 0.528 0.477 0.468 0.438 0.772 0.625  30.01
 98)  4-Bromophenyl-phe 0.287 0.265 0.222 0.214 0.214 0.206 0.253 0.237  13.05
 99)  Phenacetin        0.394 0.429 0.367 0.364 0.381 0.362 0.371 0.381   6.24
100)  Hexachlorobenzene 0.273 0.254 0.228 0.220 0.220 0.210 0.240 0.235   9.39
101)  Dimethoate        0.445 0.346 0.246 0.165 0.142 0.115 0.368 0.261  48.82
102)  Atrazine          0.295 0.223 0.146 0.083 0.065 0.047 0.244 0.158  61.85
103)  4-aminobiphenyl   0.581 0.796 0.691 0.560 0.513 0.454 0.602 0.600  18.99
             ---- Quadratic regression ----  Coefficient =  0.9948
               Response Ratio = -0.01475 + 0.81342 *A + -0.11561 *A^2

104)C Pentachlorophenol       0.076 0.084 0.087 0.090 0.086 0.039 0.077  24.75
             ---- Linear regression ----  Coefficient =  0.9983
               Response Ratio = -0.00993 + 0.09143 *A

105)  Pentachloronitrob 0.119 0.116 0.105 0.100 0.099 0.094 0.107 0.106   8.51
106)  Pronamide         0.491 0.459 0.405 0.378 0.380 0.359 0.435 0.415  11.59
```

Initial Calibration Summary

Job Number: T46705 **Sample:** EP393-ICC393
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** P08272.D
Project: Vertellus-Provo

```
107)  Phenanthrene      1.320 1.159 1.009 0.952 0.947 0.905 1.161 1.065  14.27
108)  Anthracene        1.294 1.267 1.133 1.063 1.061 1.010 1.191 1.146   9.52
109)  Disulfoton        0.790 0.607 0.489 0.443 0.432 0.399 0.639 0.543  26.07
             ---- Quadratic regression ----  Coefficient =  0.9982
               Response Ratio = 0.04676 + 0.50070 *A + -0.03721 *A^2

110)  Carbazole         1.092 1.155 1.065 0.973 0.976 0.924 1.051 1.034   7.74
111)  Methyl parathion  0.333 0.284 0.220 0.169 0.157 0.132 0.289 0.226  34.09
             ---- Quadratic regression ----  Coefficient =  0.9904
               Response Ratio = 0.02063 + 0.24185 *A + -0.03776 *A^2

112)  Di-n-butylphthala 1.960 1.705 1.467 1.333 1.337 1.258 1.690 1.536  16.71
             ---- Quadratic regression ----  Coefficient =  0.9984
               Response Ratio = 0.08353 + 1.49117 *A + -0.08260 *A^2

113)  4-Nitroquinoline  0.004 0.031 0.038 0.036 0.036 0.034 0.014 0.028  47.63
             ---- Linear regression ----  Coefficient =  0.9937
               Response Ratio = -0.00270 + 0.03615 *A

114)  Parathion         0.223 0.210 0.187 0.166 0.168 0.158 0.201 0.187  13.22
115)  Methapyrilene     0.120 0.189 0.172 0.136 0.129 0.118 0.146 0.144  18.69
             ---- Quadratic regression ----  Coefficient =  0.9927
               Response Ratio = -0.00375 + 0.19238 *A + -0.02419 *A^2

116)  Isodrin           0.187 0.163 0.142 0.130 0.129 0.121 0.161 0.148  15.98
             ---- Quadratic regression ----  Coefficient =  0.9990
               Response Ratio = 0.00647 + 0.14798 *A + -0.00924 *A^2

117)C Fluoranthene      1.367 1.295 1.192 1.066 1.079 1.023 1.243 1.181  10.94

118) I   Chrysene-d12          ----------------ISTD---------------------
119)  Benzidine         0.290 0.387 0.346 0.319 0.287 0.255 0.214 0.300  19.13
             ---- Quadratic regression ----  Coefficient =  0.9982
               Response Ratio = -0.02980 + 0.44365 *A + -0.05762 *A^2

120)  Pyrene            1.484 1.729 1.609 1.720 1.928 1.823 1.515 1.687   9.59
121)S Terphenyl-d14     0.950 1.022 0.957 1.033 1.182 1.139 0.947 1.033   9.15
122)  Aramite           0.118 0.131 0.113 0.112 0.121 0.109 0.114 0.117   6.22
123)  p-(Dimethylamine) 0.368 0.474 0.451 0.467 0.515 0.492 0.393 0.451  11.67
124)  Chlorobenzilate   0.550 0.596 0.547 0.562 0.627 0.586 0.531 0.571   5.81
125)  Kepone                                                      0.000  -1.00
126)  3,3'-Dimethylbenz 0.610 0.543 0.475 0.454 0.432 0.419 0.416 0.479  15.18
             ---- Quadratic regression ----  Coefficient =  0.9988
               Response Ratio = 0.00564 + 0.50966 *A + -0.03026 *A^2

127)  Famphur           0.327 0.069 0.020 0.009 0.005 0.005 0.168 0.086  140.85
128)  Butylbenzylphthal 0.833 0.866 0.806 0.802 0.863 0.815 0.781 0.824   3.85
129)  2-Acetylaminofluo 0.437 0.443 0.435 0.402 0.405 0.402 0.389 0.416   5.18
130)  3,3'-Dichlorobenz 0.376 0.364 0.334 0.302 0.302 0.290 0.323 0.327  10.02
131)  Benzo[a]anthracen 1.277 1.286 1.215 1.214 1.247 1.209 1.152 1.229   3.75
132)  Chrysene          1.276 1.240 1.122 1.107 1.139 1.130 1.127 1.163   5.72
133)  bis(2-Ethylhexyl) 1.226 1.173 1.049 1.033 1.082 1.006 1.092 1.094   7.22

134) I   Perylene-d12          ----------------ISTD---------------------
135)C Di-n-octylphthala 2.196 3.009 2.718 2.584 2.569 2.322 2.289 2.527  11.22
136)  Benzo[b]fluoranth 1.454 1.591 1.479 1.451 1.538 1.491 1.364 1.481   4.84
137)  Benzo[k]fluoranth 1.396 1.521 1.328 1.270 1.230 1.203 1.272 1.317   8.37
138)  7,12-Dimethylbenz 0.430 0.721 0.708 0.670 0.685 0.646 0.472 0.619  19.06
             ---- Linear regression ----  Coefficient =  0.9962
               Response Ratio = -0.00088 + 0.66688 *A
```

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-ICC393
Lab FileID: P08272.D

139)	Hexachlorophene								0.000	-1.00
140)C	Benzo[a]pyrene	1.266	1.333	1.226	1.227	1.263	1.192	1.154	1.237	4.66
141)	3-Methylcholanthr	0.589	0.561	0.486	0.533	0.544	0.534	0.508	0.536	6.29
142)	Indeno[1,2,3-cd]p	1.141	0.949	0.844	1.014	1.039	0.956	0.946	0.984	9.42
143)	Dibenz[a,h]anthra	0.951	0.794	0.721	0.847	0.870	0.811	0.790	0.827	8.77
144)	Benzo[g,h,i]peryl	0.938	0.754	0.671	0.835	0.848	0.762	0.746	0.793	10.97

(#) = Out of Range

ep393a9.m Tue Jan 26 10:05:04 2010

7.8.3

7

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP393-ICV393
Lab FileID: P08276.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ep393\p08276.D Vial: 9
Acq On : 22 Jan 2010 1:49 pm Operator: garyj
Sample : icv393-50 Inst : GCMS P
Misc : op13254,Ep393,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393a9.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Tue Jan 26 10:04:37 2010
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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	5.39
2		bis(Chloromethyl)ether		----------NA----------				
3		1,4-Dioxane		----------NA----------				
4		N-nitrosodimethylamine	0.809	0.799	1.2	76	0.03	3.12
5		Pyridine	1.664	1.448	13.0	67	0.05	3.13
6		2-Picoline		----------NA----------				
7		N-Nitrosomethylethylamine		----------NA----------				
8		Methyl methanesulfonate		----------NA----------				
9		N-Nitrosodiethylamine		----------NA----------				
10		Ethyl methanesulfonate		----------NA----------				
11		Benzaldehyde		----------NA----------				
12		Aniline	2.057	1.550	24.6	61	0.00	5.10
13	S	2-Fluorophenol		----------NA----------				
14		bis(2-Chloroethyl)ether	1.755	1.746	0.5	80	0.00	5.15
15	S	Phenol-d5		----------NA----------				
16	C	Phenol	1.945	2.000	-2.8	83	0.02	5.16
17		2-Chlorophenol	1.523	1.464	3.9	76	0.00	5.25
18		1,3-Dichlorobenzene	1.865	1.709	8.4	73	0.00	5.34
19	C	1,4-Dichlorobenzene	1.744	1.634	6.3	75	0.00	5.41
20		1,2-Dichlorobenzene	1.631	1.556	4.6	79	0.00	5.55
21		Benzyl alcohol	1.044	0.958	8.2	74	0.00	5.54
22		bis(2-chloroisopropyl)eth	3.244	3.027	6.7	73	0.00	5.64
23		2-Methylphenol	1.614	1.414	12.4	72	-0.03	5.68
		----------	Amount	Calc.	%Drift		----------	
24		N-Nitrosopyrrolidine		----------NA----------				
25		N-Nitrosomorpholine		----------NA----------				
		----------	AvgRF	CCRF	%Dev		----------	
26		o-Toluidine		----------NA----------				
27		Acetophenone		----------NA----------				
28		Hexachloroethane	0.691	0.665	3.8	73	0.00	5.88
29	P	N-Nitroso-di-n-propylamin	1.141	1.255	-10.0	93	-0.03	5.79
		----------	Amount	Calc.	%Drift		----------	
30		3&4-Methylphenol	100.000	103.757	-3.8	72	-0.02	5.82
		----------	AvgRF	CCRF	%Dev		----------	
31	I	Naphthalene-d8	1.000	1.000	0.0	78	0.00	6.74
32	S	Nitrobenzene-d5		----------NA----------				
33		Nitrobenzene	0.477	0.473	0.8	79	-0.02	5.95

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-ICV393
Lab FileID: P08276.D

34		N-Nitrosopiperidine		----------NA----------				
35		A,A-Dimethylphenethylamin		----------NA----------				
36		Isophorone	0.983	0.885	10.0	72	-0.01	6.21
37	C	2-Nitrophenol	0.227	0.226	0.4	75	0.00	6.30
38		2,4-Dimethylphenol	0.435	0.398	8.5	71	0.00	6.36
39		bis(2-Chloroethoxy)methan	0.542	0.507	6.5	75	0.00	6.43
		----------	Amount	Calc.	%Drift		----------	
40		O,O,O-Triethyl phosphorot		----------NA----------				
41		Benzoic Acid	50.000	45.075	9.8	78	-0.02	6.56
		----------	AvgRF	CCRF	%Dev		----------	
42	C	2,4-Dichlorophenol	0.340	0.338	0.6	75	0.00	6.61
43		1,2,4-Trichlorobenzene	0.384	0.354	7.8	73	0.00	6.67
44		Naphthalene	1.123	1.059	5.7	76	0.00	6.77
45		4-Chloroaniline	0.462	0.172	62.8	28	0.00	6.83
46		2,6-Dichlorophenol		----------NA----------				
47		Hexachloropropene		----------NA----------				
48	C	Hexachlorobutadiene	0.236	0.228	3.4	76	0.00	6.92
49		p-Phenylenediamine		----------NA----------				
50		Caprolactam		----------NA----------				
51		N-Nitrosodi-n-butylamine		----------NA----------				
52	C	4-Chloro-3-methylphenol	0.355	0.367	-3.4	81	-0.02	7.53
53		Isosafrole		----------NA----------				
54		2-Methylnaphthalene	0.763	0.723	5.2	76	0.00	7.70
55		1-Methylnaphthalene	0.746	0.700	6.2	75	0.00	7.85
56		1,2,4,5-Tetrachlorobenzen		----------NA----------				
57	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00	9.43
		----------	Amount	Calc.	%Drift		----------	
58	P	Hexachlorocyclopentadiene	50.000	55.494	-11.0	94	0.00	7.95
		----------	AvgRF	CCRF	%Dev		----------	
59	C	2,4,6-Trichlorophenol	0.392	0.373	4.8	73	-0.02	8.16
60		2,4,5-Trichlorophenol	0.355	0.388	-9.3	87	-0.02	8.27
		----------	Amount	Calc.	%Drift		----------	
61	S	2-Fluorobiphenyl		----------NA----------				
		----------	AvgRF	CCRF	%Dev		----------	
62		Safrole		----------NA----------				
63		1,1'-Biphenyl		----------NA----------				
64		2-Chloronaphthalene	1.474	1.125	23.7	65	-0.02	8.46
		----------	Amount	Calc.	%Drift		----------	
65		1-Chloronaphthalene		----------NA----------				
		----------	AvgRF	CCRF	%Dev		----------	
66		2-Nitroaniline	0.443	0.408	7.9	72	0.00	8.64
67		1,4-Naphthoquinone		----------NA----------				
68		Acenaphthylene	1.894	1.803	4.8	79	0.00	9.17
69		Dimethylphthalate	1.591	1.431	10.1	72	0.00	8.98
70		m-Dinitrobenzene	0.239	0.226	5.4	71	-0.01	9.02
71		2,6-Dinitrotoluene	0.355	0.336	5.4	74	0.00	9.07
72	C	Acenaphthene	1.221	1.129	7.5	75	0.00	9.49
73		3-Nitroaniline	0.334	0.244	26.9	54	-0.01	9.37
		----------	Amount	Calc.	%Drift		----------	
74	P	2,4-Dinitrophenol	50.000	39.546	20.9	62	-0.02	9.57

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-ICV393
Lab FileID: P08276.D

		----------	AvgRF	CCRF	%Dev	----------		
75		Dibenzofuran	1.553	1.438	7.4	76	0.00	9.81
76		Pentachlorobenzene		----------NA----------				
77		2,4-Dinitrotoluene	0.433	0.383	11.5	71	-0.02	9.81
		----------	Amount	Calc.	%Drift	----------		
78	P	4-Nitrophenol	50.000	43.219	13.6	62	-0.02	9.91
79		1-Naphthylamine		----------NA----------				
80		2-Naphthylamine		----------NA----------				
81		2,3,4,6-Tetrachlorophenol	50.000	48.435	3.1	74	0.00	10.00
		----------	AvgRF	CCRF	%Dev	----------		
82		Fluorene	1.229	1.181	3.9	80	0.00	10.45
83		4-Chlorophenyl-phenylethe	0.620	0.574	7.4	78	0.00	10.46
84		Diethylphthalate	1.527	1.412	7.5	73	0.00	10.28
85		5-Nitro-o-toluidine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
86		Thionazin		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
87		4-Nitroaniline	0.321	0.278	13.4	65	-0.04	10.53
88	I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.01	12.32
		----------	Amount	Calc.	%Drift	----------		
89		4,6-Dinitro-2-methylpheno	50.000	43.752	12.5	68	-0.03	10.60
		----------	AvgRF	CCRF	%Dev	----------		
90	C	n-Nitrosodiphenylamine	0.761	0.622	18.3	63	-0.01	10.70
91		1,2-Diphenylhydrazine	0.980	0.913	6.8	74	0.00	10.77
92		Diphenylamine	0.761	0.622	18.3	63	-0.01	10.70
93	S	2,4,6-Tribromophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
94		Tetraethyl dithiopyrophos		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
95		sym-Trinitrobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
96		Diallate		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
97		Phorate		----------NA----------				
98		4-Bromophenyl-phenylether	0.237	0.232	2.1	78	0.00	11.43
99		Phenacetin		----------NA----------				
100		Hexachlorobenzene	0.235	0.228	3.0	75	0.00	11.57
101		Dimethoate		----------NA----------				
102		Atrazine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
103		4-aminobiphenyl		----------NA----------				
104	C	Pentachlorophenol	50.000	49.860	0.3	74	-0.02	12.01
		----------	AvgRF	CCRF	%Dev	----------		
105		Pentachloronitrobenzene		----------NA----------				
106		Pronamide		----------NA----------				
107		Phenanthrene	1.065	1.097	-3.0	82	-0.02	12.37

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-ICV393
Lab FileID: P08276.D

108		Anthracene	1.146	1.108	3.3	73	-0.01	12.48
		----------	Amount	Calc.	%Drift	----------		
109		Disulfoton		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
110		Carbazole	1.034	0.960	7.2	68	0.00	12.84
		----------	Amount	Calc.	%Drift	----------		
111		Methyl parathion		----------NA----------				
112		Di-n-butylphthalate	50.000	50.176	-0.4	75	0.00	13.64
113		4-Nitroquinoline 1-Oxide		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
114		Parathion		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
115		Methapyrilene		----------NA----------				
116		Isodrin		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
117	C	Fluoranthene	1.181	1.194	-1.1	75	0.00	14.88
118	I	Chrysene-d12	1.000	1.000	0.0	75	0.00	17.95
		----------	Amount	Calc.	%Drift	----------		
119		Benzidine		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
120		Pyrene	1.687	1.543	8.5	72	0.00	15.35
121	S	Terphenyl-d14		----------NA----------				
122		Aramite		----------NA----------				
123		p-(Dimethylamine)azobenze		----------NA----------				
124		Chlorobenzilate		----------NA----------				
125		Kepone		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
126		3,3'-Dimethylbenzidine		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
127		Famphur		----------NA----------				
128		Butylbenzylphthalate	0.824	0.773	6.2	72	0.00	16.81
129		2-Acetylaminofluorene		----------NA----------				
130		3,3'-Dichlorobenzidine	0.327	0.247	24.5	56	0.00	17.89
131		Benzo[a]anthracene	1.229	1.186	3.5	73	0.00	17.92
132		Chrysene	1.163	1.111	4.5	74	0.00	18.00
133		bis(2-Ethylhexyl)phthalat	1.094	0.990	9.5	71	0.00	18.07
134	I	Perylene-d12	1.000	1.000	0.0	85	0.01	20.89
135	C	Di-n-octylphthalate	2.527	2.343	7.3	74	0.00	19.37
136		Benzo[b]fluoranthene	1.481	1.405	5.1	81	-0.01	20.10
137		Benzo[k]fluoranthene	1.317	1.333	-1.2	86	0.00	20.15
		----------	Amount	Calc.	%Drift	----------		
138		7,12-Dimethylbenz(a)anthr		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
139		Hexachlorophene		----------NA----------				
140	C	Benzo[a]pyrene	1.237	1.102	10.9	77	0.01	20.77
141		3-Methylcholanthrene		----------NA----------				

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP393-ICV393
Lab FileID: P08276.D

142	Indeno[1,2,3-cd]pyrene	0.984	0.939	4.6	95	0.03	23.54
143	Dibenz[a,h]anthracene	0.827	0.789	4.6	93	0.02	23.57
144	Benzo[g,h,i]perylene	0.793	0.747	5.8	95	0.03	24.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p08272.D ep393a9.m Tue Jan 26 10:04:47 2010

7.8.4

7

Initial Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP402-ICC402
Lab FileID: P08468.D

```
                         Response Factor Report  GCMS P

 Method       : C:\msdchem\1\MET...\ep402benzresc.m (RTE Integrator)
 Title        :
 Last Update  : Wed Feb 03 16:23:37 2010
 Response via : Initial Calibration

 Calibration Files
 5   =p08469.D    40  =p08471.D    50  =p08468.D    75  =p08473.D
 100    =p08474.D     25     =p08472.D

       Compound              5     40    50    75    100   25    Avg    %RSD
 ------------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)     Benzenethiol        0.678 1.020 1.005 0.960 0.952 0.968 0.930  13.62

 3) I   Naphthalene-d8        ----------------ISTD---------------------
 4)     Resorcinol          0.144 0.309 0.319 0.303 0.312 0.284 0.279  24.05
            ---- Linear regression ----  Coefficient =  0.9985
              Response Ratio = -0.01584 + 0.31826 *A


 5) I   Acenaphthene-d10      ----------------ISTD---------------------

 6) I   Phenanthrene-d10      ----------------ISTD---------------------

 7) I   Chrysene-d12          ----------------ISTD---------------------

 8) I   Perylene-d12          ----------------ISTD---------------------
-------------------------------------------------------------------------------
(#) = Out of Range

          ep402benzresc.m        Wed Feb 03 19:54:54 2010
```

7.8.5

7

Initial Calibration Verification

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP402-ICV402
Lab FileID: P08475.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ep402\p08475.D            Vial: 13
Acq On    :  3 Feb 2010   4:31 pm                    Operator: garyj
Sample    : icv402-50, benzth + resc                 Inst    : GCMS P
Misc      : op13254,Ep402,1000,,,1,1,water           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\MET...\ep402benzresc.m (RTE Integrator)
Title        :
Last Update  : Wed Feb 03 16:23:37 2010
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	71	0.00	5.16
2	Benzenethiol	0.930	0.988	-6.2	70	0.00	4.81
3 I	Naphthalene-d8	1.000	1.000	0.0	70	0.00	6.46
	----------	Amount	Calc.	%Drift	----------		
4	Resorcinol	50.000	51.168	-2.3	68	0.00	7.10
	----------	AvgRF	CCRF	%Dev	----------		
5 I	Acenaphthene-d10	1.000	1.000	0.0	67	0.00	9.07
6 I	Phenanthrene-d10	1.000	1.000	0.0	66	0.00	11.93
7 I	Chrysene-d12	1.000	1.000	0.0	66	0.00	17.51
8 I	Perylene-d12	1.000	1.000	0.0	67	0.00	20.39

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 p08468.D   ep402benzresc.m        Wed Feb 03 19:55:05 2010
```

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP403-CC393
Lab FileID: P08477.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ep403\p08477.D Vial: 2
Acq On : 3 Feb 2010 5:16 pm Operator: garyj
Sample : cc393-50 Inst : GCMS P
Misc : op13254,Ep403,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Fri Jan 22 14:55:03 2010
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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.01	5.16
2		bis(Chloromethyl)ether	1.592	1.672	-5.0	116	-0.10	2.60
3		1,4-Dioxane	0.629	0.653	-3.8	116	-0.09	2.54
4		N-nitrosodimethylamine	0.809	0.828	-2.3	113	-0.06	2.88
5		Pyridine	1.664	1.619	2.7	108	-0.06	2.86
6		2-Picoline	1.943	1.814	6.6	104	-0.06	3.57
7		N-Nitrosodiethylamine	0.878	0.842	4.1	107	0.00	4.28
8		Benzaldehyde	0.476	0.452	5.0	122	0.01	4.79
9		Aniline	2.057	2.053	0.2	117	0.00	4.88
10	S	2-Fluorophenol	1.476	1.515	-2.6	119	-0.03	4.11
11		bis(2-Chloroethyl)ether	1.755	1.705	2.8	113	0.00	4.93
12	S	Phenol-d5	1.725	1.663	3.6	117	0.00	4.90
13	C	Phenol	1.945	1.953	-0.4	116	0.00	4.91
14		2-Chlorophenol	1.523	1.527	-0.3	114	0.00	5.01
15		1,3-Dichlorobenzene	1.865	1.895	-1.6	116	0.00	5.11
16	C	1,4-Dichlorobenzene	1.744	1.831	-5.0	120	0.01	5.18
17		1,2-Dichlorobenzene	1.631	1.692	-3.7	123	0.00	5.32
18		Benzyl alcohol	1.044	1.024	1.9	113	-0.01	5.30
19		bis(2-chloroisopropyl)eth	3.244	3.377	-4.1	117	0.02	5.41
20		2-Methylphenol	1.614	1.508	6.6	110	0.00	5.46
21		Acetophenone	2.061	2.018	2.1	114	0.00	5.54
22		Hexachloroethane	0.691	0.727	-5.2	115	0.02	5.64
23	P	N-Nitroso-di-n-propylamin	1.141	1.131	0.9	120	0.00	5.56
			Amount	Calc.	%Drift			
24		3&4-Methylphenol	50.000	53.600	-7.2	118	0.00	5.59
			AvgRF	CCRF	%Dev			
25	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	6.47
26	S	Nitrobenzene-d5	0.502	0.493	1.8	115	0.00	5.70
27		Nitrobenzene	0.477	0.470	1.5	115	0.00	5.72
28		Isophorone	0.983	0.954	3.0	114	0.00	5.96
29	C	2-Nitrophenol	0.227	0.226	0.4	110	0.00	6.04
30		2,4-Dimethylphenol	0.435	0.437	-0.5	115	0.00	6.10
31		bis(2-Chloroethoxy)methan	0.542	0.532	1.8	116	0.00	6.17
			Amount	Calc.	%Drift			
32		Benzoic Acid	50.000	41.456	17.1	103	-0.04	6.27
			AvgRF	CCRF	%Dev			
33	C	2,4-Dichlorophenol	0.340	0.353	-3.8	115	0.00	6.34

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP403-CC393
Lab FileID: P08477.D

34		1,2,4-Trichlorobenzene	0.384	0.395	-2.9	119	0.00	6.40
35		Naphthalene	1.123	1.141	-1.6	121	0.00	6.49
36		4-Chloroaniline	0.462	0.424	8.2	101	0.00	6.56
37		2,6-Dichlorophenol	0.311	0.322	-3.5	118	0.00	6.58
38		Hexachloropropene	0.185	0.189	-2.2	107	0.01	6.60
39	C	Hexachlorobutadiene	0.236	0.240	-1.7	118	0.00	6.64
40		Caprolactam	0.159	0.149	6.3	107	-0.03	7.05
41		N-Nitrosodi-n-butylamine	0.357	0.331	7.3	116	0.00	6.98
42	C	4-Chloro-3-methylphenol	0.355	0.373	-5.1	121	0.00	7.24
43		2-Methylnaphthalene	0.763	0.801	-5.0	124	0.01	7.40
44		1-Methylnaphthalene	0.746	0.778	-4.3	122	0.02	7.54
45		1,2,4,5-Tetrachlorobenzen	0.351	0.371	-5.7	125	0.02	7.65
46	I	Acenaphthene-d10	1.000	1.000	0.0	120	0.01	9.08
		----------	Amount	Calc.	%Drift		----------	
47	P	Hexachlorocyclopentadiene	50.000	38.632	22.7#	95	0.00	7.64
		----------	AvgRF	CCRF	%Dev		----------	
48	C	2,4,6-Trichlorophenol	0.392	0.380	3.1	117	0.00	7.85
49		2,4,5-Trichlorophenol	0.355	0.324	8.7	113	0.00	7.96
		----------	Amount	Calc.	%Drift		----------	
50	S	2-Fluorobiphenyl	100.000	102.233	-2.2	125	0.00	7.95
		----------	AvgRF	CCRF	%Dev		----------	
51		1,1'-Biphenyl	1.446	1.400	3.2	125	0.00	8.11
52		2-Chloronaphthalene	1.474	1.394	5.4	127	0.00	8.15
53		2-Nitroaniline	0.443	0.409	7.7	114	0.00	8.32
54		Acenaphthylene	1.894	1.856	2.0	127	0.00	8.83
55		Dimethylphthalate	1.591	1.536	3.5	121	0.00	8.64
56		m-Dinitrobenzene	0.239	0.241	-0.8	118	0.00	8.70
57		2,6-Dinitrotoluene	0.355	0.350	1.4	121	0.00	8.74
58	C	Acenaphthene	1.221	1.207	1.1	125	0.00	9.14
59		3-Nitroaniline	0.334	0.328	1.8	113	0.00	9.03
		----------	Amount	Calc.	%Drift		----------	
60	P	2,4-Dinitrophenol	50.000	41.969	16.1	104	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
61		Dibenzofuran	1.553	1.572	-1.2	129	0.01	9.45
62		Pentachlorobenzene	0.508	0.514	-1.2	127	0.02	9.40
63		2,4-Dinitrotoluene	0.433	0.428	1.2	124	0.00	9.47
		----------	Amount	Calc.	%Drift		----------	
64	P	4-Nitrophenol	50.000	51.718	-3.4	117	0.02	9.57
65		2,3,4,6-Tetrachlorophenol	50.000	49.678	0.6	119	0.02	9.65
		----------	AvgRF	CCRF	%Dev		----------	
66		Fluorene	1.229	1.244	-1.2	132	0.02	10.09
67		4-Chlorophenyl-phenylethe	0.620	0.615	0.8	131	0.02	10.10
68		Diethylphthalate	1.527	1.570	-2.8	128	0.02	9.94
69		4-Nitroaniline	0.321	0.307	4.4	112	0.02	10.20
70	I	Phenanthrene-d10	1.000	1.000	0.0	127	0.01	11.95
		----------	Amount	Calc.	%Drift		----------	
71		4,6-Dinitro-2-methylpheno	50.000	38.188	23.6#	101	-0.02	10.27
		----------	AvgRF	CCRF	%Dev		----------	

7.8.7

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Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP403-CC393
Lab FileID: P08477.D

72	C	n-Nitrosodiphenylamine	0.761	0.726	4.6	124	0.00	10.36
73		1,2-Diphenylhydrazine	0.980	0.929	5.2	127	0.00	10.41
74		Diphenylamine	0.761	0.726	4.6	124	0.00	10.36
75	S	2,4,6-Tribromophenol	0.104	0.097	6.7	120	0.00	10.59
76		4-Bromophenyl-phenylether	0.237	0.224	5.5	128	0.00	11.07
77		Hexachlorobenzene	0.235	0.239	-1.7	134	0.00	11.20
78		Atrazine	0.158	0.193	-22.2#	168	0.01	11.48
		----------	Amount	Calc.	%Drift	----------		
79	C	Pentachlorophenol	50.000	50.330	-0.7	127	0.01	11.65
		----------	AvgRF	CCRF	%Dev	----------		
80		Phenanthrene	1.065	1.071	-0.6	135	0.01	12.00
81		Anthracene	1.146	1.175	-2.5	132	0.01	12.10
82		Carbazole	1.034	1.071	-3.6	128	0.03	12.46
		----------	Amount	Calc.	%Drift	----------		
83		Di-n-butylphthalate	50.000	56.158	-12.3	140	0.05	13.27
		----------	AvgRF	CCRF	%Dev	----------		
84	C	Fluoranthene	1.181	1.295	-9.7	138	0.06	14.48
85	I	Chrysene-d12	1.000	1.000	0.0	148	0.02	17.54
		----------	Amount	Calc.	%Drift	----------		
86		Benzidine	50.000	52.641	-5.3	155	-0.02	14.80
		----------	AvgRF	CCRF	%Dev	----------		
87		Pyrene	1.687	1.541	8.7	141	-0.02	14.95
88	S	Terphenyl-d14	1.033	0.909	12.0	140	0.00	15.35
89		Butylbenzylphthalate	0.824	0.787	4.5	144	0.00	16.43
90		3,3'-Dichlorobenzidine	0.327	0.340	-4.0	150	0.02	17.50
91		Benzo[a]anthracene	1.229	1.236	-0.6	150	0.02	17.52
92		Chrysene	1.163	1.197	-2.9	157	0.02	17.60
93		bis(2-Ethylhexyl)phthalat	1.094	1.031	5.8	145	0.03	17.70
94	I	Perylene-d12	1.000	1.000	0.0	178	0.02	20.41
95	C	Di-n-octylphthalate	2.527	2.373	6.1	156	0.01	18.99
96		Benzo[b]fluoranthene	1.481	1.483	-0.1	179	0.02	19.68
97		Benzo[k]fluoranthene	1.317	1.223	7.1	164	0.02	19.73
98	C	Benzo[a]pyrene	1.237	1.293	-4.5	188	0.02	20.30
99		Indeno[1,2,3-cd]pyrene	0.984	1.070	-8.7	226#	0.04	22.87
100		Dibenz[a,h]anthracene	0.827	0.905	-9.4	224#	0.04	22.89
101		Benzo[g,h,i]perylene	0.793	0.863	-8.8	229#	0.04	23.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p08272.D ep393.m Wed Feb 03 19:57:33 2010

7.8.7

7

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP403-CC402
Lab FileID: P08478.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ep403\p08478.D            Vial: 3
Acq On    :  3 Feb 2010   5:47 pm                    Operator: garyj
Sample    : cc402-50, benzth + resc                  Inst    : GCMS P
Misc      : op13254,Ep403,1000,,,1,1,water           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\MET...\ep402benzresc.m (RTE Integrator)
Title        :
Last Update  : Wed Feb 03 16:23:37 2010
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	95	0.00	5.16
2	Benzenethiol	0.930	0.995	-7.0	94	0.00	4.81
3 I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	6.46
	----------	Amount	Calc.	%Drift	----------		
4	Resorcinol	50.000	47.998	4.0	84	0.00	7.10
	----------	AvgRF	CCRF	%Dev	----------		
5 I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	9.07
6 I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00	11.93
7 I	Chrysene-d12	1.000	1.000	0.0	78	0.00	17.51
8 I	Perylene-d12	1.000	1.000	0.0	81	0.00	20.39

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 p08468.D   ep402benzresc.m      Wed Feb 03 19:58:06 2010
```

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP403-ECC393
Lab FileID: P08500.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ep403\p08500.D Vial: 25
Acq On : 4 Feb 2010 5:04 am Operator: garyj
Sample : ecc393-50 Inst : GCMS P
Misc : op13254,Ep403,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Thu Feb 04 12:52:53 2010
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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	174	0.02	5.17
2		bis(Chloromethyl)ether		----------NA----------				
3		1,4-Dioxane	0.629	0.595	5.4	163	-0.07	2.55
4		N-nitrosodimethylamine	0.809	0.834	-3.1	175	-0.04	2.89
5		Pyridine	1.664	1.422	14.5	146	-0.05	2.87
6		2-Picoline	1.943	1.758	9.5	156	-0.05	3.59
7		N-Nitrosodiethylamine	0.878	0.851	3.1	168	0.00	4.30
8		Benzaldehyde	0.476	0.466	2.1	194	0.02	4.79
9		Aniline	2.057	2.004	2.6	176	0.01	4.89
10	S	2-Fluorophenol	1.476	1.352	8.4	163	-0.01	4.13
11		bis(2-Chloroethyl)ether	1.755	1.672	4.7	171	0.02	4.94
12	S	Phenol-d5	1.725	1.508	12.6	164	0.01	4.92
13	C	Phenol	1.945	1.882	3.2	173	0.02	4.93
14		2-Chlorophenol	1.523	1.517	0.4	175	0.02	5.02
15		1,3-Dichlorobenzene	1.865	1.841	1.3	174	0.02	5.12
16	C	1,4-Dichlorobenzene	1.744	1.721	1.3	175	0.02	5.18
17		1,2-Dichlorobenzene	1.631	1.570	3.7	177	0.02	5.33
18		Benzyl alcohol	1.044	0.991	5.1	169	0.00	5.32
19		bis(2-chloroisopropyl)eth	3.244	3.201	1.3	171	0.03	5.42
20		2-Methylphenol	1.614	1.548	4.1	174	0.02	5.49
21		Acetophenone	2.061	2.027	1.6	176	0.02	5.56
22		Hexachloroethane	0.691	0.700	-1.3	171	0.03	5.65
23	P	N-Nitroso-di-n-propylamin	1.141	1.000	12.4	164	0.03	5.59
24		3&4-Methylphenol	1.494	1.410	5.6	170	0.03	5.61
25	I	Naphthalene-d8	1.000	1.000	0.0	184	0.02	6.48
26	S	Nitrobenzene-d5	0.502	0.442	12.0	166	0.01	5.72
27		Nitrobenzene	0.477	0.442	7.3	174	0.01	5.74
28		Isophorone	0.983	0.942	4.2	182	0.01	5.98
29	C	2-Nitrophenol	0.227	0.224	1.3	176	0.02	6.05
30		2,4-Dimethylphenol	0.435	0.424	2.5	179	0.02	6.13
31		bis(2-Chloroethoxy)methan	0.542	0.482	11.1	169	0.02	6.19
		----------	Amount	Calc.	%Drift		----------	
32		Benzoic Acid	50.000	45.680	8.6	189	0.02	6.33
		----------	AvgRF	CCRF	%Dev		----------	
33	C	2,4-Dichlorophenol	0.340	0.339	0.3	179	0.02	6.36
34		1,2,4-Trichlorobenzene	0.384	0.375	2.3	182	0.02	6.41
35		Naphthalene	1.123	1.050	6.5	179	0.02	6.51
36		4-Chloroaniline	0.462	0.439	5.0	169	0.02	6.57
37		2,6-Dichlorophenol	0.311	0.301	3.2	179	0.02	6.60

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP403-ECC393
Lab FileID: P08500.D

38		Hexachloropropene	0.185	0.190	-2.7	173	0.02	6.61
39	C	Hexachlorobutadiene	0.236	0.220	6.8	175	0.02	6.65
40		Caprolactam	0.159	0.154	3.1	179	0.02	7.10
41		N-Nitrosodi-n-butylamine	0.357	0.325	9.0	184	0.03	7.01
42	C	4-Chloro-3-methylphenol	0.355	0.349	1.7	182	0.03	7.27
43		2-Methylnaphthalene	0.763	0.748	2.0	187	0.03	7.41
44		1-Methylnaphthalene	0.746	0.725	2.8	183	0.03	7.56
45		1,2,4,5-Tetrachlorobenzen	0.351	0.353	-0.6	191	0.03	7.67
46	I	Acenaphthene-d10	1.000	1.000	0.0	195	0.03	9.10
		----------	Amount	Calc.	%Drift	----------		
47	P	Hexachlorocyclopentadiene	50.000	39.909	20.2#	160	0.02	7.65
		----------	AvgRF	CCRF	%Dev	----------		
48	C	2,4,6-Trichlorophenol	0.392	0.387	1.3	193	0.02	7.87
49		2,4,5-Trichlorophenol	0.355	0.341	3.9	194	0.02	7.98
		----------	Amount	Calc.	%Drift	----------		
50	S	2-Fluorobiphenyl	100.000	89.281	10.7	179	0.02	7.98
		----------	AvgRF	CCRF	%Dev	----------		
51		1,1'-Biphenyl	1.446	1.282	11.3	186	0.02	8.14
52		2-Chloronaphthalene	1.474	1.446	1.9	214#	0.02	8.17
53		2-Nitroaniline	0.443	0.406	8.4	183	0.03	8.34
54		Acenaphthylene	1.894	1.780	6.0	198	0.03	8.85
55		Dimethylphthalate	1.591	1.498	5.8	192	0.03	8.68
56		m-Dinitrobenzene	0.239	0.232	2.9	184	0.03	8.74
57		2,6-Dinitrotoluene	0.355	0.333	6.2	187	0.03	8.77
58	C	Acenaphthene	1.221	1.128	7.6	190	0.03	9.17
59		3-Nitroaniline	0.334	0.329	1.5	184	0.04	9.07
		----------	Amount	Calc.	%Drift	----------		
60	P	2,4-Dinitrophenol	50.000	47.530	4.9	197	0.04	9.28
		----------	AvgRF	CCRF	%Dev	----------		
61		Dibenzofuran	1.553	1.509	2.8	201#	0.04	9.48
62		Pentachlorobenzene	0.508	0.492	3.1	197	0.04	9.42
63		2,4-Dinitrotoluene	0.433	0.426	1.6	201#	0.05	9.51
		----------	Amount	Calc.	%Drift	----------		
64	P	4-Nitrophenol	50.000	47.343	5.3	174	0.05	9.60
65		2,3,4,6-Tetrachlorophenol	50.000	52.112	-4.2	203	0.04	9.68
		----------	AvgRF	CCRF	%Dev	----------		
66		Fluorene	1.229	1.148	6.6	198	0.04	10.12
67		4-Chlorophenyl-phenylethe	0.620	0.562	9.4	193	0.05	10.13
68		Diethylphthalate	1.527	1.437	5.9	189	0.06	9.97
69		4-Nitroaniline	0.321	0.308	4.0	183	0.07	10.24
70	I	Phenanthrene-d10	1.000	1.000	0.0	211#	0.04	11.98
		----------	Amount	Calc.	%Drift	----------		
71		4,6-Dinitro-2-methylpheno	50.000	43.944	12.1	193	0.03	10.31
		----------	AvgRF	CCRF	%Dev	----------		
72	C	n-Nitrosodiphenylamine	0.761	0.682	10.4	194	0.02	10.39
73		1,2-Diphenylhydrazine	0.980	0.868	11.4	196	0.02	10.45
74		Diphenylamine	0.761	0.682	10.4	194	0.02	10.39
75	S	2,4,6-Tribromophenol	0.104	0.091	12.5	186	0.02	10.62

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP403-ECC393
Lab FileID: P08500.D

76		4-Bromophenyl-phenylether	0.237	0.207	12.7	197	0.03	11.09
77		Hexachlorobenzene	0.235	0.217	7.7	201#	0.03	11.23
78		Atrazine	0.158	0.087	44.9#	126	0.04	11.51
		----------	Amount	Calc.	%Drift	----------		
79	C	Pentachlorophenol	50.000	53.088	-6.2	223	0.04	11.68
		----------	AvgRF	CCRF	%Dev	----------		
80		Phenanthrene	1.065	0.963	9.6	201#	0.04	12.04
81		Anthracene	1.146	1.088	5.1	203#	0.05	12.14
82		Carbazole	1.034	0.978	5.4	194	0.06	12.50
		----------	Amount	Calc.	%Drift	----------		
83		Di-n-butylphthalate	50.000	47.969	4.1	202	0.08	13.30
		----------	AvgRF	CCRF	%Dev	----------		
84	C	Fluoranthene	1.181	1.115	5.6	198	0.08	14.51
85	I	Chrysene-d12	1.000	1.000	0.0	175	0.04	17.57
		----------	Amount	Calc.	%Drift	----------		
86		Benzidine	50.000	45.349	9.3	162	0.00	14.83
		----------	AvgRF	CCRF	%Dev	----------		
87		Pyrene	1.687	1.801	-6.8	196	0.00	14.98
88	S	Terphenyl-d14	1.033	1.016	1.6	186	0.02	15.38
89		Butylbenzylphthalate	0.824	0.848	-2.9	184	0.03	16.45
90		3,3'-Dichlorobenzidine	0.327	0.318	2.8	167	0.05	17.52
91		Benzo[a]anthracene	1.229	1.197	2.6	172	0.04	17.54
92		Chrysene	1.163	1.133	2.6	177	0.04	17.62
93		bis(2-Ethylhexyl)phthalat	1.094	1.147	-4.8	191	0.06	17.72
94	I	Perylene-d12	1.000	1.000	0.0	169	0.04	20.43
95	C	Di-n-octylphthalate	2.527	3.056	-20.9#	191	0.03	19.02
96		Benzo[b]fluoranthene	1.481	1.504	-1.6	172	0.04	19.71
97		Benzo[k]fluoranthene	1.317	1.340	-1.7	171	0.04	19.75
98	C	Benzo[a]pyrene	1.237	1.263	-2.1	175	0.04	20.32
99		Indeno[1,2,3-cd]pyrene	0.984	0.869	11.7	174	0.06	22.89
100		Dibenz[a,h]anthracene	0.827	0.820	0.8	193	0.06	22.92
101		Benzo[g,h,i]perylene	0.793	0.586	26.1#	148	0.06	23.59

(#) = Out of Range SPCC's out = 0 CCC's out = 1
p08272.D ep393.m Thu Feb 04 13:04:10 2010

7.8.9

7

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP404-CC393
Lab FileID: P08502.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ep404\p08502.D Vial: 2
Acq On : 4 Feb 2010 9:29 am Operator: garyj
Sample : cc393-50 Inst : GCMS P
Misc : op13254,Ep404,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Fri Jan 22 14:55:03 2010
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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	143	0.01	5.16
2		bis(Chloromethyl)ether	1.592	1.680	-5.5	148	-0.07	2.63
3		1,4-Dioxane	0.629	0.655	-4.1	147	-0.06	2.56
4		N-nitrosodimethylamine	0.809	0.848	-4.8	146	-0.04	2.89
5		Pyridine	1.664	1.716	-3.1	145	-0.05	2.88
6		2-Picoline	1.943	1.909	1.7	139	-0.05	3.59
7		N-Nitrosodiethylamine	0.878	0.872	0.7	141	0.00	4.29
8		Benzaldehyde	0.476	0.444	6.7	152	0.01	4.79
9		Aniline	2.057	2.136	-3.8	154	0.00	4.89
10	S	2-Fluorophenol	1.476	1.506	-2.0	150	-0.02	4.12
11		bis(2-Chloroethyl)ether	1.755	1.652	5.9	139	0.00	4.93
12	S	Phenol-d5	1.725	1.666	3.4	149	0.00	4.91
13	C	Phenol	1.945	1.982	-1.9	150	0.00	4.92
14		2-Chlorophenol	1.523	1.578	-3.6	150	0.01	5.02
15		1,3-Dichlorobenzene	1.865	1.900	-1.9	148	0.01	5.11
16	C	1,4-Dichlorobenzene	1.744	1.800	-3.2	150	0.01	5.18
17		1,2-Dichlorobenzene	1.631	1.639	-0.5	152	0.00	5.32
18		Benzyl alcohol	1.044	1.038	0.6	146	0.00	5.31
19		bis(2-chloroisopropyl)eth	3.244	3.359	-3.5	147	0.02	5.41
20		2-Methylphenol	1.614	1.657	-2.7	153	0.00	5.47
21		Acetophenone	2.061	2.040	1.0	146	0.01	5.55
22		Hexachloroethane	0.691	0.730	-5.6	147	0.02	5.64
23	P	N-Nitroso-di-n-propylamin	1.141	1.043	8.6	140	0.01	5.57
			Amount	Calc.	%Drift			
24		3&4-Methylphenol	50.000	54.137	-8.3	151	0.02	5.60
			AvgRF	CCRF	%Dev			
25	I	Naphthalene-d8	1.000	1.000	0.0	146	0.00	6.47
26	S	Nitrobenzene-d5	0.502	0.500	0.4	148	0.00	5.71
27		Nitrobenzene	0.477	0.477	0.0	149	0.00	5.72
28		Isophorone	0.983	0.963	2.0	147	0.00	5.96
29	C	2-Nitrophenol	0.227	0.237	-4.4	147	0.00	6.04
30		2,4-Dimethylphenol	0.435	0.447	-2.8	149	0.00	6.11
31		bis(2-Chloroethoxy)methan	0.542	0.512	5.5	142	0.00	6.18
			Amount	Calc.	%Drift			
32		Benzoic Acid	50.000	42.378	15.2	135	-0.01	6.30
			AvgRF	CCRF	%Dev			
33	C	2,4-Dichlorophenol	0.340	0.364	-7.1	152	0.00	6.34

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP404-CC393
Lab FileID: P08502.D

34		1,2,4-Trichlorobenzene	0.384	0.396	-3.1	152	0.00	6.40
35		Naphthalene	1.123	1.114	0.8	150	0.00	6.49
36		4-Chloroaniline	0.462	0.481	-4.1	146	0.01	6.56
37		2,6-Dichlorophenol	0.311	0.322	-3.5	151	0.00	6.58
38		Hexachloropropene	0.185	0.209	-13.0	151	0.01	6.60
39	C	Hexachlorobutadiene	0.236	0.238	-0.8	149	0.00	6.64
40		Caprolactam	0.159	0.155	2.5	142	0.00	7.08
41		N-Nitrosodi-n-butylamine	0.357	0.332	7.0	149	0.00	6.99
42	C	4-Chloro-3-methylphenol	0.355	0.372	-4.8	153	0.01	7.25
43		2-Methylnaphthalene	0.763	0.783	-2.6	154	0.01	7.40
44		1-Methylnaphthalene	0.746	0.762	-2.1	152	0.02	7.54
45		1,2,4,5-Tetrachlorobenzen	0.351	0.364	-3.7	156	0.02	7.65
46	I	Acenaphthene-d10	1.000	1.000	0.0	150	0.01	9.08
		----------	Amount	Calc.	%Drift	----------		
47	P	Hexachlorocyclopentadiene	50.000	45.991	8.0	146	0.00	7.64
		----------	AvgRF	CCRF	%Dev	----------		
48	C	2,4,6-Trichlorophenol	0.392	0.405	-3.3	155	0.00	7.86
49		2,4,5-Trichlorophenol	0.355	0.354	0.3	154	0.00	7.97
		----------	Amount	Calc.	%Drift	----------		
50	S	2-Fluorobiphenyl	100.000	102.827	-2.8	156	0.00	7.96
		----------	AvgRF	CCRF	%Dev	----------		
51		1,1'-Biphenyl	1.446	1.386	4.1	154	0.00	8.13
52		2-Chloronaphthalene	1.474	1.516	-2.8	172	0.00	8.15
53		2-Nitroaniline	0.443	0.420	5.2	145	0.00	8.33
54		Acenaphthylene	1.894	1.854	2.1	158	0.01	8.84
55		Dimethylphthalate	1.591	1.535	3.5	151	0.00	8.65
56		m-Dinitrobenzene	0.239	0.234	2.1	142	0.01	8.71
57		2,6-Dinitrotoluene	0.355	0.347	2.3	149	0.00	8.75
58	C	Acenaphthene	1.221	1.200	1.7	155	0.01	9.15
59		3-Nitroaniline	0.334	0.329	1.5	141	0.02	9.05
		----------	Amount	Calc.	%Drift	----------		
60	P	2,4-Dinitrophenol	50.000	40.775	18.5	125	0.02	9.26
		----------	AvgRF	CCRF	%Dev	----------		
61		Dibenzofuran	1.553	1.589	-2.3	162	0.02	9.46
62		Pentachlorobenzene	0.508	0.511	-0.6	157	0.02	9.40
63		2,4-Dinitrotoluene	0.433	0.427	1.4	155	0.02	9.48
		----------	Amount	Calc.	%Drift	----------		
64	P	4-Nitrophenol	50.000	42.348	15.3	119	0.04	9.59
65		2,3,4,6-Tetrachlorophenol	50.000	52.131	-4.3	156	0.02	9.66
		----------	AvgRF	CCRF	%Dev	----------		
66		Fluorene	1.229	1.209	1.6	160	0.03	10.10
67		4-Chlorophenyl-phenylethe	0.620	0.603	2.7	159	0.03	10.11
68		Diethylphthalate	1.527	1.499	1.8	152	0.03	9.94
69		4-Nitroaniline	0.321	0.263	18.1	120	0.03	10.21
70	I	Phenanthrene-d10	1.000	1.000	0.0	153	0.02	11.96
		----------	Amount	Calc.	%Drift	----------		
71		4,6-Dinitro-2-methylpheno	50.000	41.594	16.8	132	0.00	10.28
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP404-CC393
Lab FileID: P08502.D

72	C	n-Nitrosodiphenylamine	0.761	0.736	3.3	151	0.00	10.36
73		1,2-Diphenylhydrazine	0.980	0.954	2.7	156	0.00	10.43
74		Diphenylamine	0.761	0.736	3.3	151	0.00	10.36
75	S	2,4,6-Tribromophenol	0.104	0.103	1.0	153	0.00	10.60
76		4-Bromophenyl-phenylether	0.237	0.228	3.8	157	0.00	11.07
77		Hexachlorobenzene	0.235	0.239	-1.7	161	0.00	11.21
78		Atrazine	0.158	0.181	-14.6	189	0.02	11.49
		----------	Amount	Calc.	%Drift	----------		
79	C	Pentachlorophenol	50.000	52.634	-5.3	160	0.02	11.66
		----------	AvgRF	CCRF	%Dev	----------		
80		Phenanthrene	1.065	1.042	2.2	158	0.02	12.01
81		Anthracene	1.146	1.154	-0.7	156	0.02	12.11
82		Carbazole	1.034	0.938	9.3	135	0.03	12.47
		----------	Amount	Calc.	%Drift	----------		
83		Di-n-butylphthalate	50.000	53.419	-6.8	161	0.05	13.27
		----------	AvgRF	CCRF	%Dev	----------		
84	C	Fluoranthene	1.181	1.110	6.0	142	0.06	14.48
85	I	Chrysene-d12	1.000	1.000	0.0	113	0.00	17.53
		----------	Amount	Calc.	%Drift	----------		
86		Benzidine	50.000	41.553	16.9	96	-0.02	14.80
		----------	AvgRF	CCRF	%Dev	----------		
87		Pyrene	1.687	1.987	-17.8	139	-0.03	14.94
88	S	Terphenyl-d14	1.033	1.178	-14.0	138	-0.01	15.35
89		Butylbenzylphthalate	0.824	0.958	-16.3	134	0.00	16.42
90		3,3'-Dichlorobenzidine	0.327	0.322	1.5	109	0.00	17.49
91		Benzo[a]anthracene	1.229	1.253	-2.0	116	0.00	17.50
92		Chrysene	1.163	1.187	-2.1	119	0.00	17.58
93		bis(2-Ethylhexyl)phthalat	1.094	1.326	-21.2#	142	0.02	17.69
94	I	Perylene-d12	1.000	1.000	0.0	130	0.00	20.38
95	C	Di-n-octylphthalate	2.527	2.758	-9.1	132	0.00	18.98
96		Benzo[b]fluoranthene	1.481	1.441	2.7	126	0.00	19.66
97		Benzo[k]fluoranthene	1.317	1.267	3.8	124	0.00	19.71
98	C	Benzo[a]pyrene	1.237	1.294	-4.6	137	0.00	20.28
99		Indeno[1,2,3-cd]pyrene	0.984	1.125	-14.3	173	0.01	22.83
100		Dibenz[a,h]anthracene	0.827	0.969	-17.2	174	0.01	22.87
101		Benzo[g,h,i]perylene	0.793	0.838	-5.7	162	0.00	23.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p08272.D ep393.m Thu Feb 04 14:15:38 2010

7.8.10

7

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EP404-ECC393
Lab FileID: P08523.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ep404\p08523.D Vial: 23
Acq On : 4 Feb 2010 8:25 pm Operator: garyj
Sample : ecc393-51 Inst : GCMS P
Misc : op13254,Ep404,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393.m (RTE Integrator)
Title : SW846 8270C Appendix 9
Last Update : Fri Jan 22 14:55:03 2010
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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	186	0.02	5.17
2		bis(Chloromethyl)ether	1.592	0.753	52.7#	86	-0.08	2.62
3		1,4-Dioxane	0.629	0.531	15.6	155	-0.06	2.56
4		N-nitrosodimethylamine	0.809	0.798	1.4	179	-0.03	2.90
5		Pyridine	1.664	1.297	22.1#	143	-0.04	2.88
6		2-Picoline	1.943	1.560	19.7	148	-0.04	3.60
7		N-Nitrosodiethylamine	0.878	0.763	13.1	161	0.01	4.30
8		Benzaldehyde	0.476	0.590	-23.9#	262#	0.02	4.80
9		Aniline	2.057	1.616	21.4#	152	0.02	4.90
10	S	2-Fluorophenol	1.476	1.299	12.0	168	0.00	4.14
11		bis(2-Chloroethyl)ether	1.755	1.955	-11.4	214#	0.02	4.94
12	S	Phenol-d5	1.725	1.620	6.1	189	0.02	4.93
13	C	Phenol	1.945	1.922	1.2	189	0.03	4.94
14		2-Chlorophenol	1.523	1.449	4.9	179	0.02	5.03
15		1,3-Dichlorobenzene	1.865	1.724	7.6	174	0.03	5.12
16	C	1,4-Dichlorobenzene	1.744	1.739	0.3	189	0.02	5.19
17		1,2-Dichlorobenzene	1.631	1.567	3.9	189	0.02	5.33
18		Benzyl alcohol	1.044	0.918	12.1	168	0.02	5.33
19		bis(2-chloroisopropyl)eth	3.244	2.919	10.0	167	0.03	5.42
20		2-Methylphenol	1.614	1.376	14.7	166	0.03	5.49
21		Acetophenone	2.061	1.650	19.9	154	0.03	5.57
22		Hexachloroethane	0.691	0.557	19.4	146	0.02	5.64
23	P	N-Nitroso-di-n-propylamin	1.141	0.968	15.2	170	0.03	5.59
			Amount	Calc.	%Drift			
24		3&4-Methylphenol	50.000	43.931	12.1	164	0.04	5.63
			AvgRF	CCRF	%Dev			
25	I	Naphthalene-d8	1.000	1.000	0.0	197	0.02	6.48
26	S	Nitrobenzene-d5	0.502	0.434	13.5	174	0.02	5.72
27		Nitrobenzene	0.477	0.462	3.1	194	0.01	5.74
28		Isophorone	0.983	0.861	12.4	177	0.02	5.99
29	C	2-Nitrophenol	0.227	0.082	63.9#	69	0.02	6.05
30		2,4-Dimethylphenol	0.435	0.415	4.6	187	0.03	6.13
31		bis(2-Chloroethoxy)methan	0.542	0.477	12.0	178	0.02	6.19
			Amount	Calc.	%Drift			
32		Benzoic Acid		NA				
			AvgRF	CCRF	%Dev			
33	C	2,4-Dichlorophenol	0.340	0.308	9.4	173	0.03	6.37

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP404-ECC393
Lab FileID: P08523.D

34		1,2,4-Trichlorobenzene	0.384	0.376	2.1	195	0.02	6.41
35		Naphthalene	1.123	1.058	5.8	192	0.02	6.51
36		4-Chloroaniline	0.462	0.435	5.8	178	0.03	6.58
37		2,6-Dichlorophenol	0.311	0.259	16.7	164	0.03	6.60
38		Hexachloropropene	0.185	0.081	56.2#	79	0.02	6.61
39	C	Hexachlorobutadiene	0.236	0.225	4.7	190	0.02	6.65
40		Caprolactam	0.159	0.138	13.2	171	0.00	7.09
41		N-Nitrosodi-n-butylamine	0.357	0.294	17.6	178	0.02	7.00
42	C	4-Chloro-3-methylphenol	0.355	0.336	5.4	187	0.05	7.29
43		2-Methylnaphthalene	0.763	0.729	4.5	194	0.03	7.42
44		1-Methylnaphthalene	0.746	0.747	-0.1	202#	0.04	7.56
45		1,2,4,5-Tetrachlorobenzen	0.351	0.378	-7.7	219#	0.04	7.68
46	I	Acenaphthene-d10	1.000	1.000	0.0	205#	0.03	9.10
		----------	Amount	Calc.	%Drift	----------		
47	P	Hexachlorocyclopentadiene	50.000	9.664	80.7#	15	0.01	7.65
		----------	AvgRF	CCRF	%Dev	----------		
48	C	2,4,6-Trichlorophenol	0.392	0.304	22.4#	159	0.04	7.90
49		2,4,5-Trichlorophenol	0.355	0.278	21.7#	166	0.06	8.02
		----------	Amount	Calc.	%Drift	----------		
50	S	2-Fluorobiphenyl	100.000	90.648	9.4	207	0.02	7.98
		----------	AvgRF	CCRF	%Dev	----------		
51		1,1'-Biphenyl	1.446	1.366	5.5	207#	0.03	8.15
52		2-Chloronaphthalene	1.474	1.262	14.4	196	0.03	8.18
53		2-Nitroaniline	0.443	0.454	-2.5	215#	0.04	8.36
54		Acenaphthylene	1.894	1.864	1.6	217#	0.03	8.86
55		Dimethylphthalate	1.591	1.438	9.6	193	0.02	8.67
56		m-Dinitrobenzene	0.239	0.159	33.5#	132	0.04	8.75
57		2,6-Dinitrotoluene	0.355	0.292	17.7	172	0.04	8.78
58	C	Acenaphthene	1.221	1.147	6.1	202#	0.04	9.17
59		3-Nitroaniline	0.334	0.347	-3.9	203#	0.06	9.09
		----------	Amount	Calc.	%Drift	----------		
60	P	2,4-Dinitrophenol		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
61		Dibenzofuran	1.553	1.590	-2.4	223#	0.05	9.48
62		Pentachlorobenzene	0.508	0.509	-0.2	214#	0.05	9.43
63		2,4-Dinitrotoluene	0.433	0.331	23.6#	164	0.06	9.52
		----------	Amount	Calc.	%Drift	----------		
64	P	4-Nitrophenol		----------NA----------				
65		2,3,4,6-Tetrachlorophenol	50.000	19.181	61.6#	69	0.06	9.69
		----------	AvgRF	CCRF	%Dev	----------		
66		Fluorene	1.229	1.195	2.8	217#	0.05	10.13
67		4-Chlorophenyl-phenylethe	0.620	0.607	2.1	220#	0.05	10.14
68		Diethylphthalate	1.527	1.451	5.0	201#	0.06	9.97
69		4-Nitroaniline	0.321	0.332	-3.4	207#	0.09	10.26
70	I	Phenanthrene-d10	1.000	1.000	0.0	201#	0.04	11.98
		----------	Amount	Calc.	%Drift	----------		
71		4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EP404-ECC393
Lab FileID: P08523.D

72	C	n-Nitrosodiphenylamine	0.761	0.753	1.1	204#	0.02	10.39
73		1,2-Diphenylhydrazine	0.980	0.924	5.7	199	0.02	10.45
74		Diphenylamine	0.761	0.753	1.1	204#	0.02	10.39
75	S	2,4,6-Tribromophenol	0.104	0.055	47.1#	107	0.02	10.62
76		4-Bromophenyl-phenylether	0.237	0.232	2.1	210#	0.03	11.09
77		Hexachlorobenzene	0.235	0.230	2.1	204#	0.04	11.24
78		Atrazine	0.158	0.106	32.9#	146	0.04	11.51
		----------	Amount	Calc.	%Drift	----------		
79	C	Pentachlorophenol	50.000	12.052	75.9#	34	0.06	11.70
		----------	AvgRF	CCRF	%Dev	----------		
80		Phenanthrene	1.065	0.975	8.5	194	0.04	12.04
81		Anthracene	1.146	1.112	3.0	198	0.05	12.14
82		Carbazole	1.034	0.944	8.7	178	0.06	12.50
		----------	Amount	Calc.	%Drift	----------		
83		Di-n-butylphthalate	50.000	51.154	-2.3	204	0.08	13.30
		----------	AvgRF	CCRF	%Dev	----------		
84	C	Fluoranthene	1.181	1.058	10.4	179	0.09	14.51
85	I	Chrysene-d12	1.000	1.000	0.0	110	0.04	17.57
		----------	Amount	Calc.	%Drift	----------		
86		Benzidine	50.000	33.026	33.9#	75	0.03	14.85
		----------	AvgRF	CCRF	%Dev	----------		
87		Pyrene	1.687	2.514	-49.0#	171	0.00	14.98
88	S	Terphenyl-d14	1.033	1.473	-42.6#	169	0.02	15.38
89		Butylbenzylphthalate	0.824	1.193	-44.8#	162	0.03	16.45
90		3,3'-Dichlorobenzidine	0.327	0.248	24.2#	81	0.04	17.52
91		Benzo[a]anthracene	1.229	1.180	4.0	106	0.04	17.54
92		Chrysene	1.163	1.086	6.6	106	0.04	17.62
93		bis(2-Ethylhexyl)phthalat	1.094	1.521	-39.0#	159	0.04	17.71
94	I	Perylene-d12	1.000	1.000	0.0	76	0.04	20.43
95	C	Di-n-octylphthalate	2.527	4.340	-71.7#	121	0.02	19.00
96		Benzo[b]fluoranthene	1.481	1.096	26.0#	56	0.02	19.69
97		Benzo[k]fluoranthene	1.317	1.447	-9.9	82	0.02	19.74
98	C	Benzo[a]pyrene	1.237	1.224	1.1	76	0.04	20.32
99		Indeno[1,2,3-cd]pyrene	0.984	0.986	-0.2	88	0.07	22.89
100		Dibenz[a,h]anthracene	0.827	0.839	-1.5	88	0.07	22.93
101		Benzo[g,h,i]perylene	0.793	0.882	-11.2	99	0.07	23.60

(#) = Out of Range SPCC's out = 0 CCC's out = 4
p08272.D ep393.m Fri Feb 05 09:57:20 2010

78.11

7

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 04 13:32:23 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

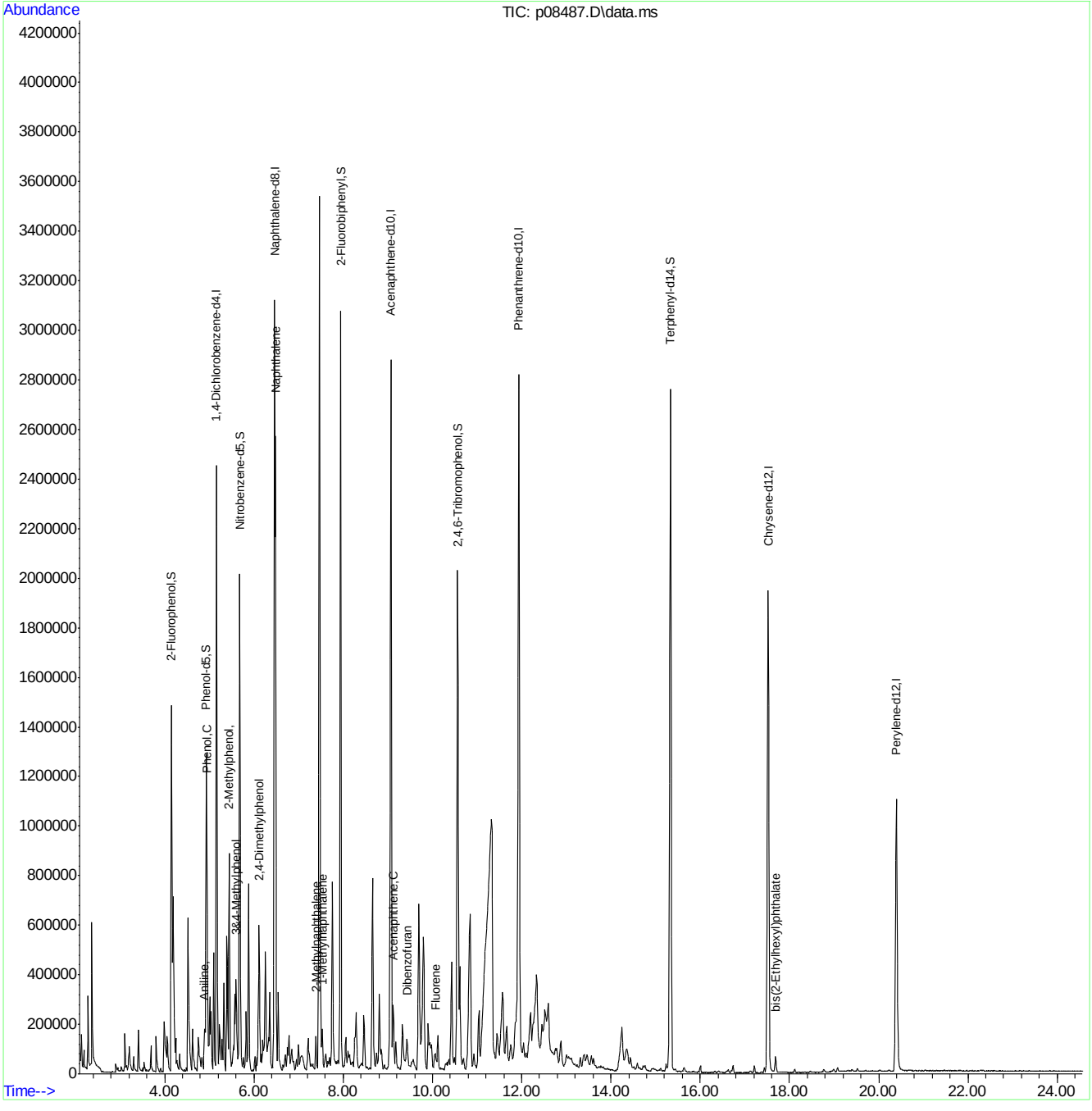
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	542370	40.00	ppm	0.00
25) Naphthalene-d8	6.462	136	1871753	40.00	ppm	0.00
46) Acenaphthene-d10	9.072	164	1214603	40.00	ppm	0.00
70) Phenanthrene-d10	11.934	188	2005708	40.00	ppm	0.00
85) Chrysene-d12	17.523	240	1720258	40.00	ppm	0.00
94) Perylene-d12	20.401	264	1087835	40.00	ppm	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.152	112	880617	43.99	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 43.99%			
12) Phenol-d5	4.932	99	838897	35.87	ppm	0.03
Spiked Amount 100.000	Range 10 - 53		Recovery = 35.87%			
26) Nitrobenzene-d5	5.681	82	816716	34.74	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 69.48%			
50) 2-Fluorobiphenyl	7.944	172	1621576	36.81	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 73.62%			
75) 2,4,6-Tribromophenol	10.570	330	443390	85.22	ppm	-0.03
Spiked Amount 100.000	Range 32 - 128		Recovery = 85.22%			
88) Terphenyl-d14	15.336	244	1808857	40.72	ppm	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 81.44%			
Target Compounds						Qvalue
9) Aniline	4.879	93	61292	2.20	ppm	# 80
13) Phenol	4.943	94	130179	4.94	ppm	83
20) 2-Methylphenol	5.441	108	297839	13.61	ppm	97
24) 3&4-Methylphenol	5.596	108	114341	3.25	ppm	# 65
30) 2,4-Dimethylphenol	6.114	107	212336	10.44	ppm	91
35) Naphthalene	6.489	128	1508925	28.72	ppm	99
43) 2-Methylnaphthalene	7.387	142	57304	1.61	ppm	97
44) 1-Methylnaphthalene	7.532	142	59630	1.71	ppm	94
58) Acenaphthene	9.120	153	109687	2.96	ppm	97
61) Dibenzofuran	9.431	168	29761	0.63	ppm	# 43
66) Fluorene	10.073	166	29540	0.79	ppm	# 94
93) bis(2-Ethylhexyl)phtha...	17.689	149	50989	1.08	ppm	# 50

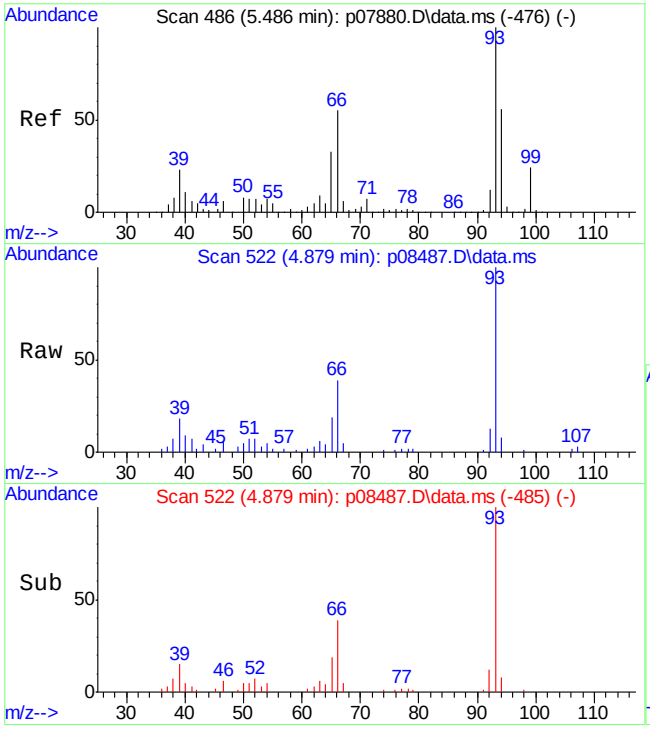
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 04 13:32:23 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

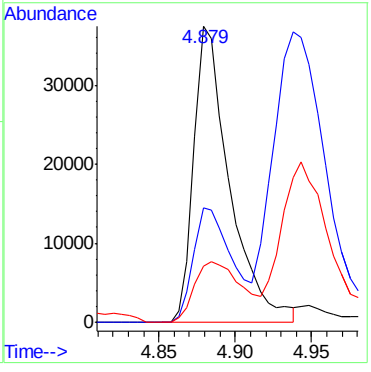


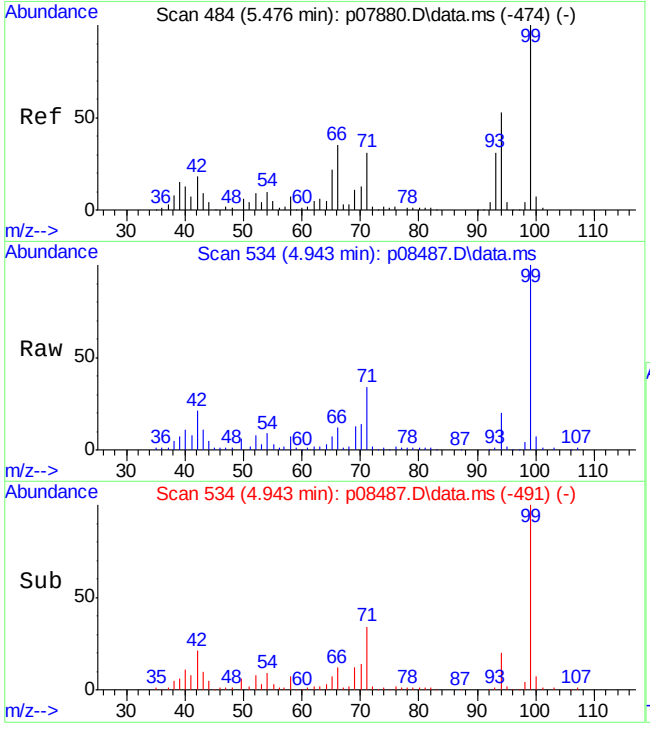


#9
Aniline
Concen: 2.20 ppm
RT: 4.879 min Scan# 522
Delta R.T. -0.002 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion: 93 Resp: 61292

Ion	Ratio	Lower	Upper
93	100		
66	42.3	16.8	76.8
65	0.0	0.0	52.4

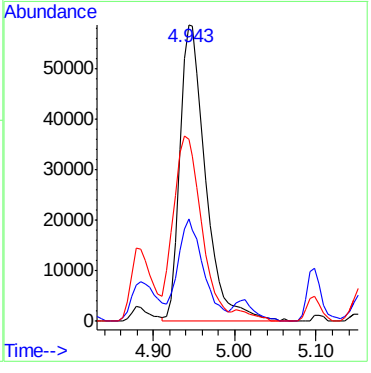


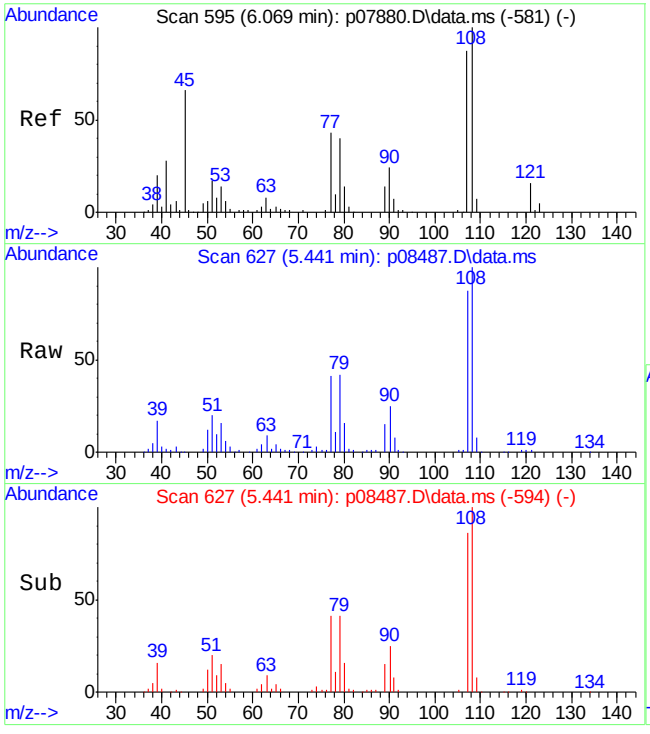


#13
Phenol
Concen: 4.94 ppm
RT: 4.943 min Scan# 534
Delta R.T. 0.031 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion: 94 Resp: 130179

Ion	Ratio	Lower	Upper
94	100		
65	27.6	11.3	71.3
66	62.9	23.8	83.8

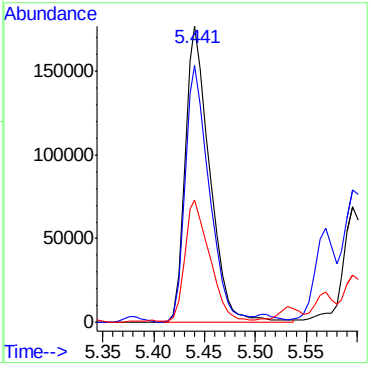


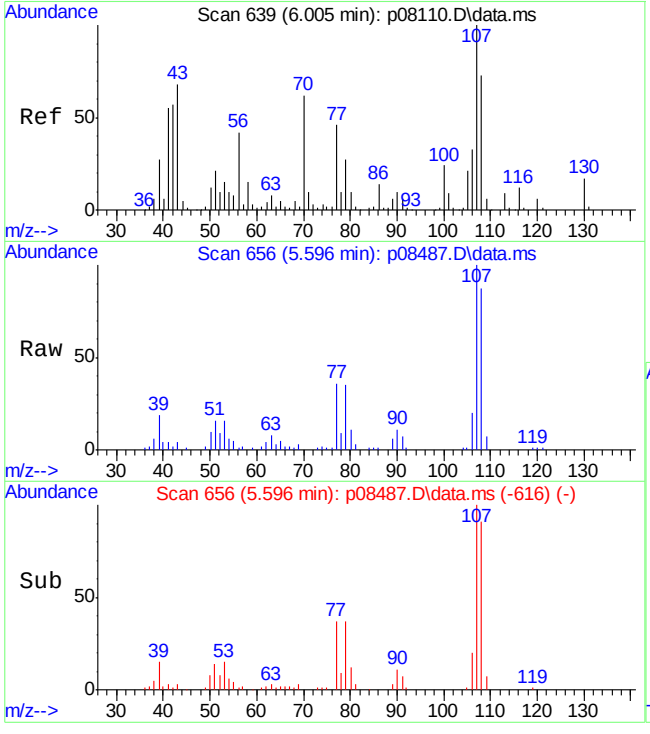


#20
2-Methylphenol
Concen: 13.61 ppm
RT: 5.441 min Scan# 627
Delta R.T. -0.024 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:108 Resp: 297839

Ion	Ratio	Lower	Upper
108	100		
107	85.4	57.6	117.6
77	41.3	14.8	74.8

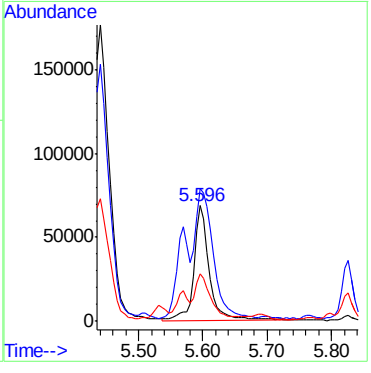




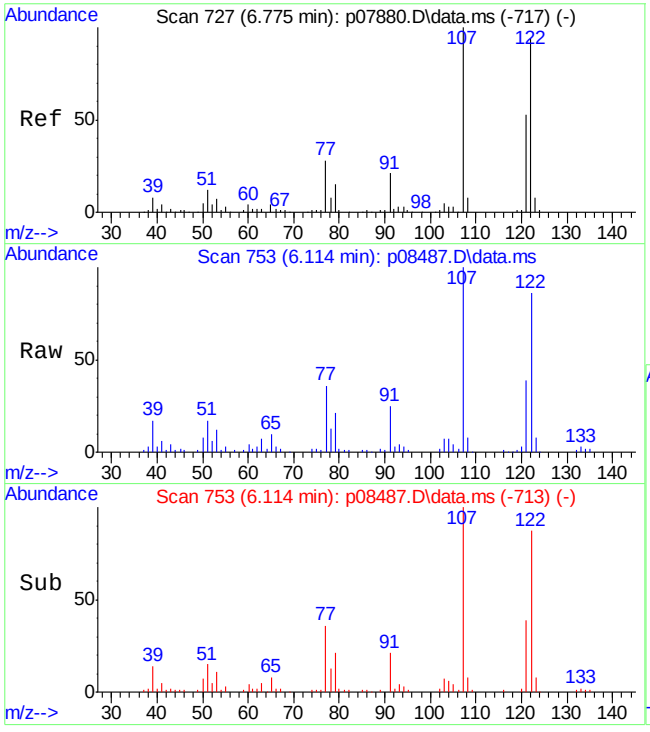
#24
3&4-Methylphenol
Concen: 3.25 ppm
RT: 5.596 min Scan# 656
Delta R.T. 0.012 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:108 Resp: 114341

Ion	Ratio	Lower	Upper
108	100		
107	132.4	153.6	213.6#
77	36.1	30.6	90.6



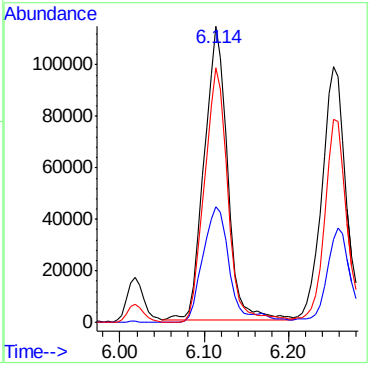
8.1.1
8

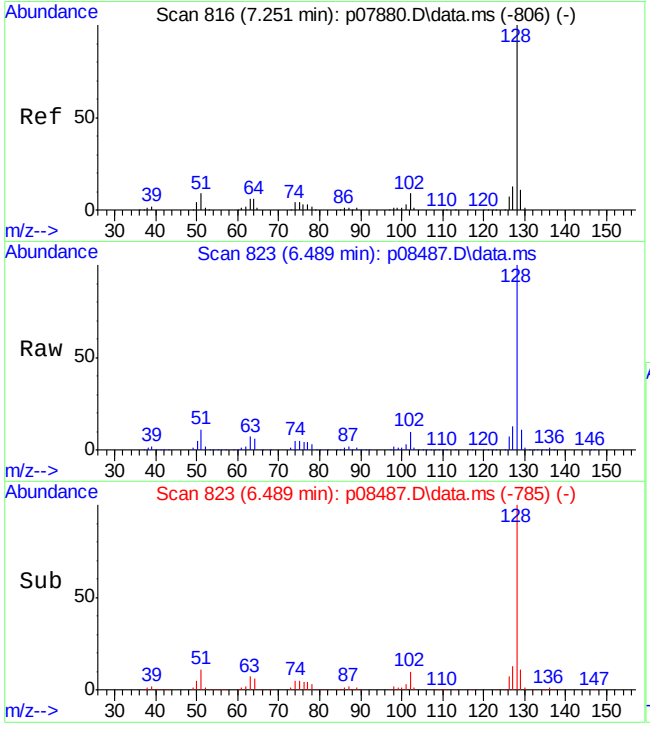


#30
2,4-Dimethylphenol
Concen: 10.44 ppm
RT: 6.114 min Scan# 753
Delta R.T. 0.012 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:107 Resp: 212336

Ion	Ratio	Lower	Upper
107	100		
121	43.7	16.3	76.3
122	88.0	48.1	108.1

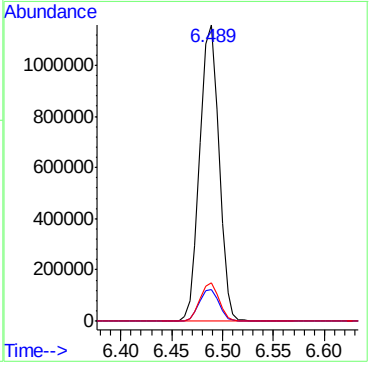




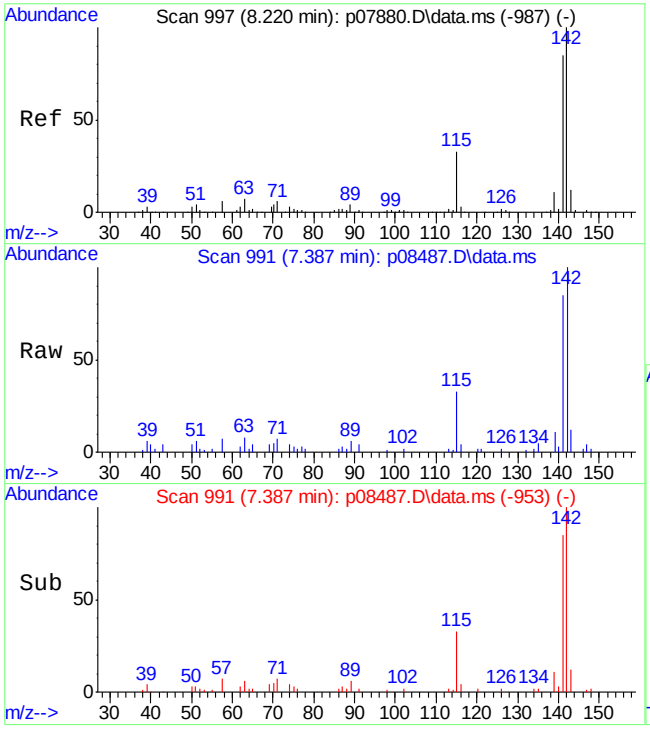
#35
Naphthalene
Concen: 28.72 ppm
RT: 6.489 min Scan# 823
Delta R.T. 0.001 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:128 Resp: 1508925

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	40.9
127	12.7	0.0	43.2



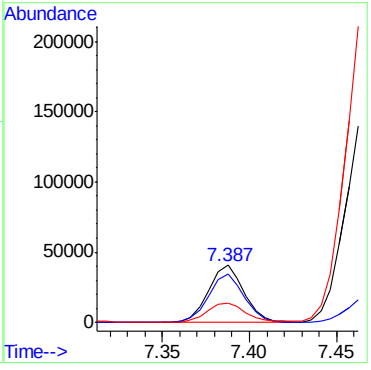
8.1.1
8

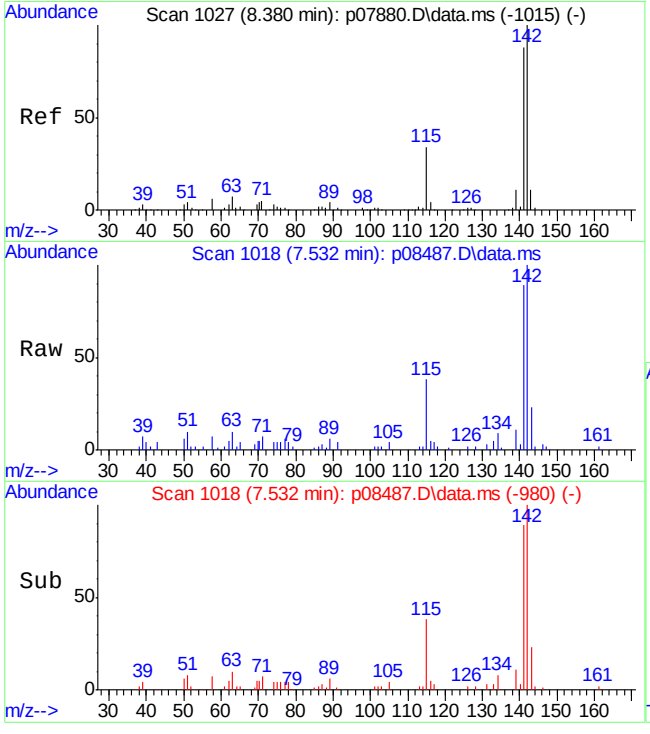


#43
2-Methylnaphthalene
Concen: 1.61 ppm
RT: 7.387 min Scan# 991
Delta R.T. 0.002 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:142 Resp: 57304

Ion	Ratio	Lower	Upper
142	100		
141	83.3	56.1	116.1
115	37.0	9.4	69.4

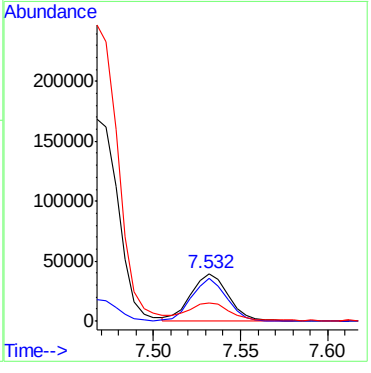




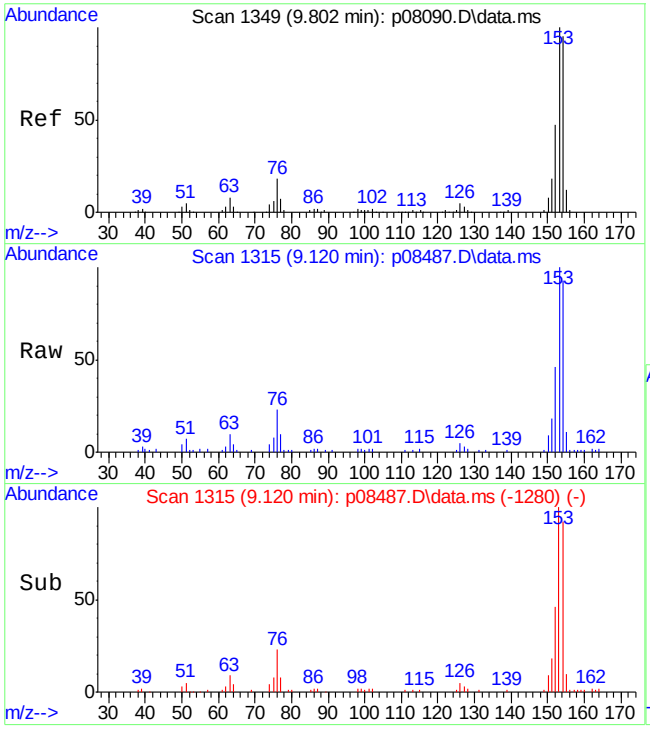
#44
1-Methylnaphthalene
Concen: 1.71 ppm
RT: 7.532 min Scan# 1018
Delta R.T. 0.005 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:142 Resp: 59630

Ion	Ratio	Lower	Upper
142	100		
141	82.8	59.1	119.1
115	44.1	10.7	70.7



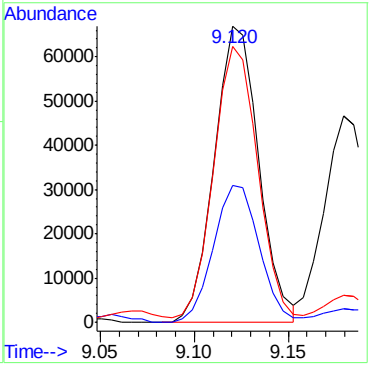
8.1.1
8

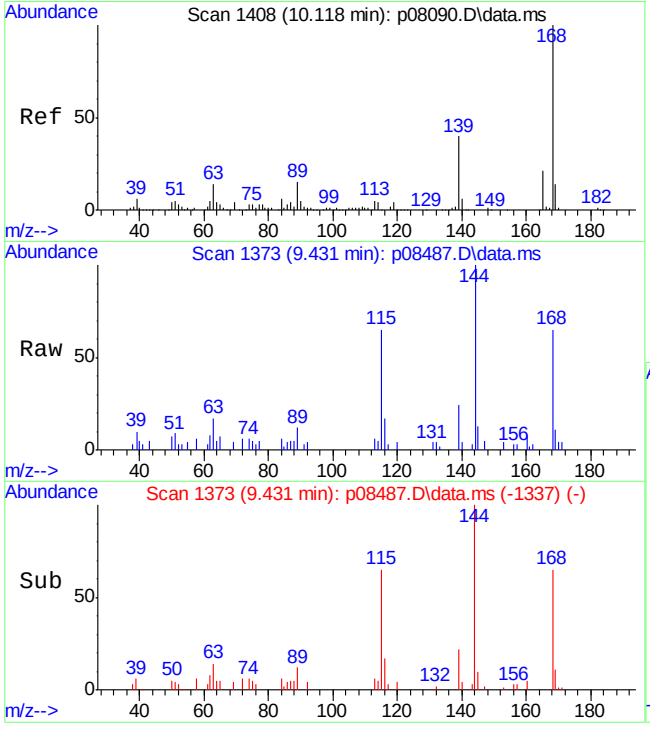


#58
Acenaphthene
Concen: 2.96 ppm
RT: 9.120 min Scan# 1315
Delta R.T. -0.015 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:153 Resp: 109687

Ion	Ratio	Lower	Upper
153	100		
152	47.8	17.6	77.6
154	89.9	64.0	124.0

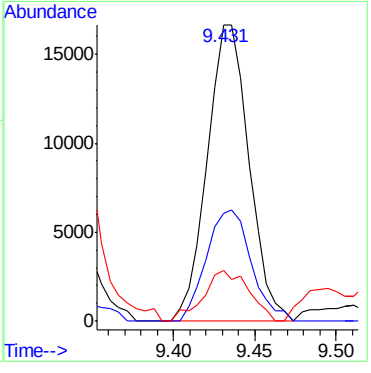


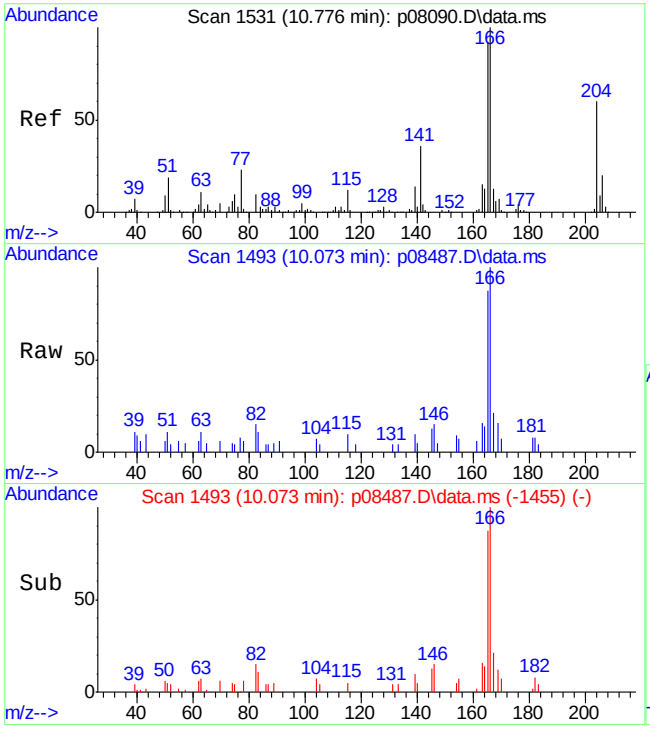


#61
Dibenzofuran
Concen: 0.63 ppm
RT: 9.431 min Scan# 1373
Delta R.T. -0.008 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:168 Resp: 29761

Ion	Ratio	Lower	Upper
168	100		
139	0.0	10.6	70.6#
169	0.0	0.0	44.9

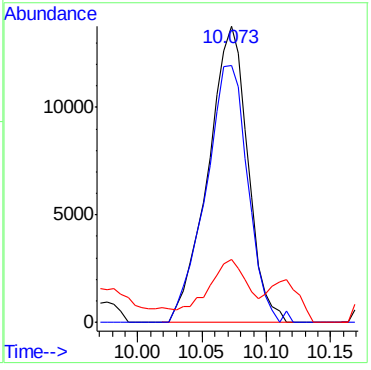


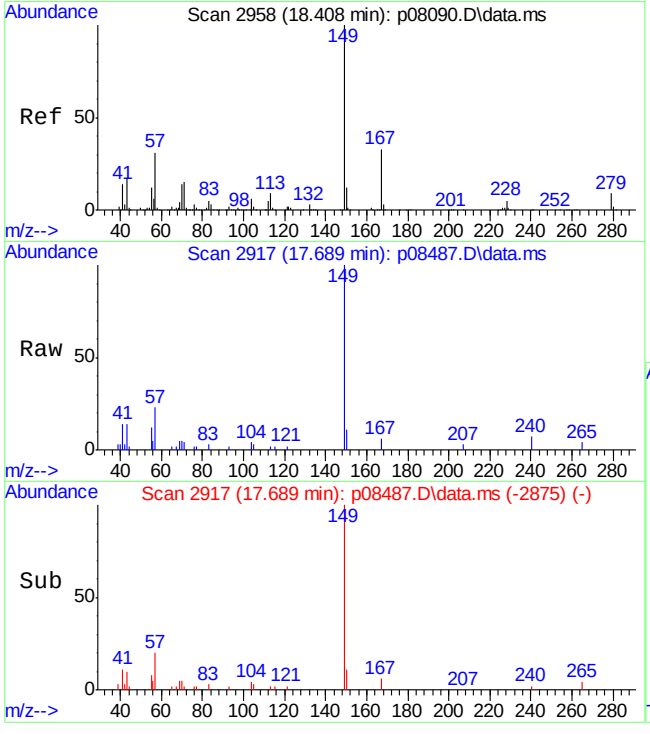


#66
Fluorene
Concen: 0.79 ppm
RT: 10.073 min Scan# 1493
Delta R.T. 0.001 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:166 Resp: 29540

Ion	Ratio	Lower	Upper
166	100		
165	91.7	63.6	123.6
167	0.0	0.0	43.7

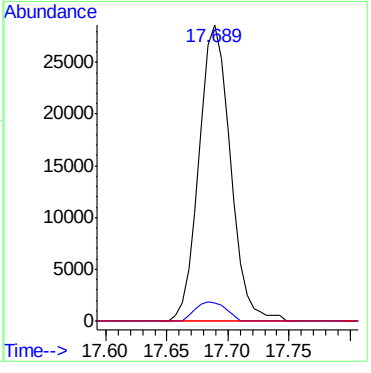




#93
bis(2-Ethylhexyl)phthalate
Concen: 1.08 ppm
RT: 17.689 min Scan# 2917
Delta R.T. 0.023 min
Lab File: p08487.D
Acq: 3 Feb 2010 10:20 pm

Tgt Ion:149 Resp: 50989

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.9	60.9#
279	0.0	0.0	37.0



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08487.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.135	6	9	14	rVB	130782	117724	1.34%	0.113%
2	2.189	16	19	33	rVB	76467	85713	0.98%	0.082%
3	2.280	33	36	45	rBV	295633	294934	3.36%	0.282%
4	2.370	46	53	95	rVB	603332	937262	10.66%	0.898%
5	3.109	187	191	195	rBV	154947	156159	1.78%	0.150%
6	3.205	203	209	223	rVV	102643	202100	2.30%	0.194%
7	3.413	242	248	262	rBV	170142	195439	2.22%	0.187%
8	3.692	295	300	311	rVV	105838	120921	1.38%	0.116%
9	3.809	319	322	337	rVB	144676	209281	2.38%	0.200%
10	3.991	350	356	365	rBV2	203662	494568	5.63%	0.474%
11	4.055	365	368	380	rVB	137323	229775	2.61%	0.220%
12	4.152	380	386	390	rBV	1471774	2372302	26.99%	2.272%
13	4.189	391	393	401	rVV	679332	980013	11.15%	0.939%
14	4.248	401	404	407	rVB	105981	103486	1.18%	0.099%
15	4.333	416	420	435	rVB2	70516	117796	1.34%	0.113%
16	4.515	450	454	470	rVB2	613735	1264938	14.39%	1.212%
17	4.622	470	474	485	rBV	166936	281225	3.20%	0.269%
18	4.756	492	499	509	rBV3	135520	347331	3.95%	0.333%
19	4.895	519	525	527	rBV3	185157	304400	3.46%	0.292%
20	4.932	527	532	542	rVB2	1179768	2404451	27.35%	2.303%
21	5.007	542	546	549	rBV2	202633	247565	2.82%	0.237%
22	5.034	549	551	559	rVB2	234590	302833	3.45%	0.290%
23	5.098	559	563	569	rBV2	470330	557324	6.34%	0.534%
24	5.157	569	574	583	rBV	2419008	3456652	39.32%	3.311%
25	5.232	583	588	594	rBV3	161813	271013	3.08%	0.260%
26	5.280	594	597	601	rVB2	88181	85412	0.97%	0.082%
27	5.323	601	605	613	rVB	356153	504023	5.73%	0.483%
28	5.398	613	619	623	rBV	543290	722117	8.22%	0.692%
29	5.441	623	627	637	rVB	861032	1447354	16.47%	1.386%
30	5.569	641	651	653	rBV3	281413	448512	5.10%	0.430%
31	5.596	653	656	665	rVB2	324119	550363	6.26%	0.527%
32	5.681	665	672	682	rVB	1989726	2633515	29.96%	2.522%
33	5.826	692	699	703	rBV	227128	295863	3.37%	0.283%
34	5.879	703	709	720	rVB	756155	1109561	12.62%	1.063%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

35	6.115	746	753	759	rBV	564749	989498	11.26%	0.948%
36	6.200	765	769	772	rBV	91238	126684	1.44%	0.121%
37	6.254	773	779	786	rVB2	406039	681934	7.76%	0.653%
38	6.355	795	798	807	rVB	306771	396552	4.51%	0.380%
39	6.462	809	818	821	rBV	3096502	5274667	60.01%	5.052%
40	6.542	829	833	849	rVB	314890	501240	5.70%	0.480%
41	6.751	867	872	875	rBV	75465	108227	1.23%	0.104%
42	6.783	875	878	883	rVB2	117766	151205	1.72%	0.145%
43	6.842	883	889	895	rBV4	59450	107069	1.22%	0.103%
44	6.997	913	918	923	rVV2	99947	167495	1.91%	0.160%
45	7.067	923	931	947	rVB6	56310	266876	3.04%	0.256%
46	7.211	951	958	968	rBV3	128079	309326	3.52%	0.296%
47	7.387	985	991	998	rBV	132317	198873	2.26%	0.190%
48	7.468	998	1006	1014	rBV	3519889	5836673	66.40%	5.590%
49	7.532	1014	1018	1024	rVB	155875	249635	2.84%	0.239%
50	7.607	1024	1032	1038	rBV2	54346	117054	1.33%	0.112%
51	7.757	1054	1060	1074	rBV	740588	1209874	13.76%	1.159%
52	7.944	1087	1095	1106	rVB	3054309	4789442	54.49%	4.587%
53	8.056	1106	1116	1121	rBV3	123910	212508	2.42%	0.204%
54	8.291	1149	1160	1170	rVB2	225369	578886	6.59%	0.554%
55	8.463	1186	1192	1201	rVB2	215939	431011	4.90%	0.413%
56	8.655	1221	1228	1240	rBV	768803	1529770	17.40%	1.465%
57	8.746	1240	1245	1250	rVV	62171	109113	1.24%	0.105%
58	8.810	1250	1257	1262	rVV	300382	542353	6.17%	0.519%
59	8.853	1263	1265	1273	rVB2	84643	127480	1.45%	0.122%
60	9.072	1287	1306	1312	rBV	2862415	5550719	63.15%	5.316%
61	9.120	1312	1315	1321	rVV	255753	393658	4.48%	0.377%
62	9.179	1321	1326	1334	rVB2	107070	197455	2.25%	0.189%
63	9.329	1344	1354	1365	rBV3	183025	490567	5.58%	0.470%
64	9.425	1366	1372	1387	rVB2	111882	284736	3.24%	0.273%
65	9.570	1387	1399	1414	rVB5	45239	202861	2.31%	0.194%
66	9.693	1414	1422	1431	rBV	672249	1507503	17.15%	1.444%
67	9.800	1432	1442	1455	rVB	534564	1484492	16.89%	1.422%
68	9.907	1455	1462	1466	rBV	185579	330019	3.75%	0.316%
69	10.056	1483	1490	1497	rBV4	58290	172081	1.96%	0.165%
70	10.115	1497	1501	1510	rVB3	137528	256964	2.92%	0.246%
71	10.431	1551	1560	1568	rVV	434089	965188	10.98%	0.924%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	10.565	1576	1585	1591	rVV	2010362	4285640	48.75%	4.105%
73	10.613	1591	1594	1603	rVV	406846	660421	7.51%	0.633%
74	10.693	1604	1609	1618	rVB5	45722	103725	1.18%	0.099%
75	10.848	1619	1638	1647	rBV2	624860	2180915	24.81%	2.089%
76	10.928	1647	1653	1664	rVB3	56374	111371	1.27%	0.107%
77	11.041	1664	1674	1680	rBV2	230640	502847	5.72%	0.482%
78	11.329	1680	1728	1744	rVV3	981625	8790211	100.00%	8.419%
79	11.447	1744	1750	1759	rVV3	113673	311194	3.54%	0.298%
80	11.575	1759	1774	1782	rVV3	278840	1062243	12.08%	1.017%
81	11.661	1782	1790	1800	rVB3	142581	372632	4.24%	0.357%
82	11.757	1800	1808	1816	rBV4	66445	168054	1.91%	0.161%
83	11.934	1818	1841	1856	rVV2	2757769	7014322	79.80%	6.718%
84	12.041	1858	1861	1867	rVB2	60991	88449	1.01%	0.085%
85	12.196	1877	1890	1895	rBV2	178602	551867	6.28%	0.529%
86	12.335	1896	1916	1930	rVB3	298781	1416939	16.12%	1.357%
87	12.453	1932	1938	1942	rBV3	90135	192015	2.18%	0.184%
88	12.875	2009	2017	2029	rVB3	105953	298644	3.40%	0.286%
89	13.004	2029	2041	2045	rBV3	48343	130882	1.49%	0.125%
90	13.394	2106	2114	2120	rVV7	53429	159076	1.81%	0.152%
91	13.464	2122	2127	2138	rVV9	51676	164620	1.87%	0.158%
92	13.554	2139	2144	2151	rVV5	50719	122390	1.39%	0.117%
93	13.613	2151	2155	2170	rVB3	41679	90099	1.02%	0.086%
94	14.244	2251	2273	2283	rVV2	174574	763402	8.68%	0.731%
95	14.346	2286	2292	2304	rVV6	78977	318846	3.63%	0.305%
96	14.437	2304	2309	2319	rVB4	42256	97908	1.11%	0.094%
97	15.336	2463	2477	2491	rVV2	2754617	5944355	67.62%	5.693%
98	17.523	2875	2886	2909	rVV	1945454	4584148	52.15%	4.391%
99	17.689	2909	2917	2929	rVB	65358	123460	1.40%	0.118%
100	20.395	3410	3423	3452	rBV	1097340	3096116	35.22%	2.965%

Sum of corrected areas: 104408404

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On    :  3 Feb 2010  10:20 pm
Operator  : garyj
Sample    : t46705-1
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
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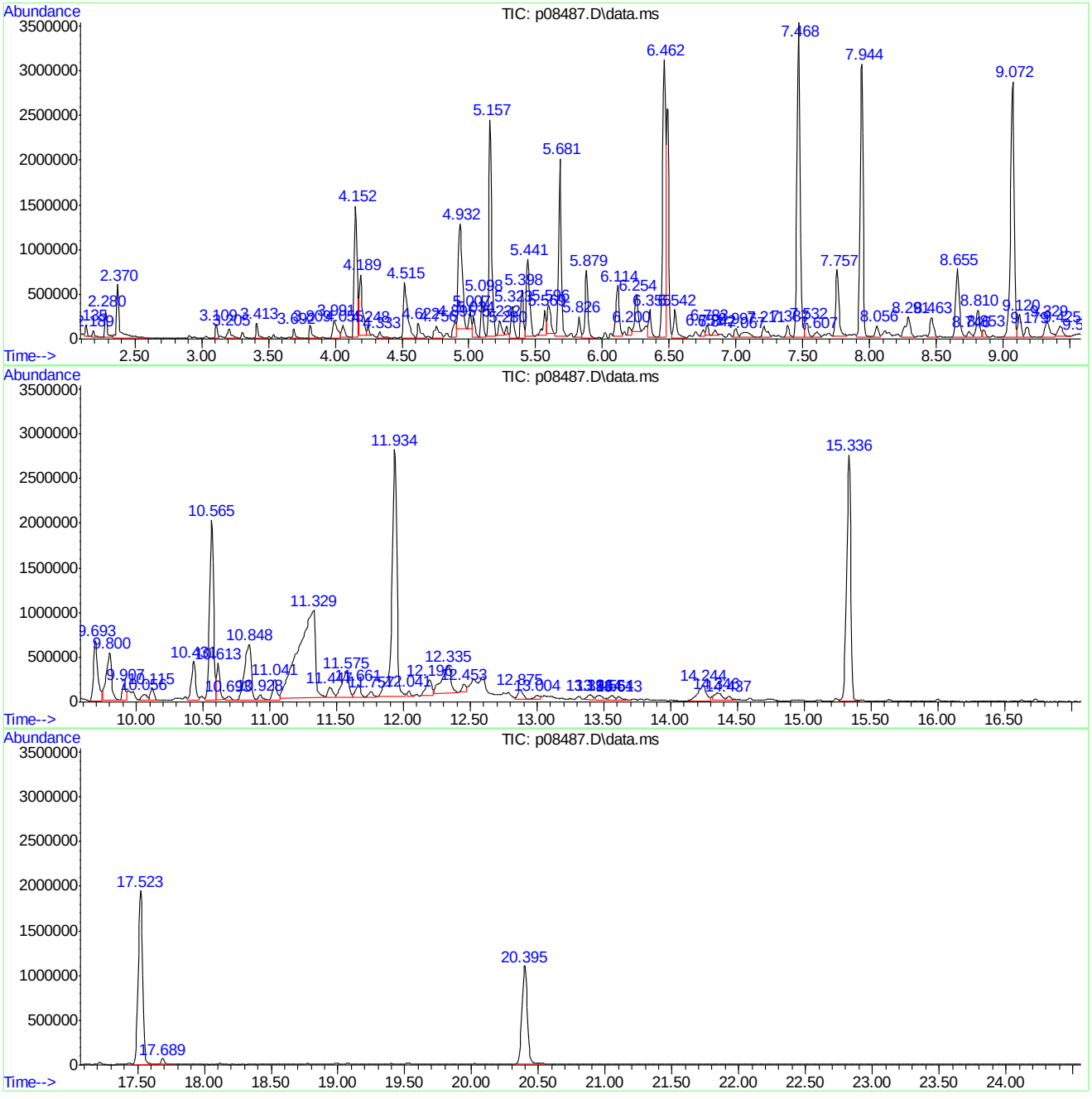


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

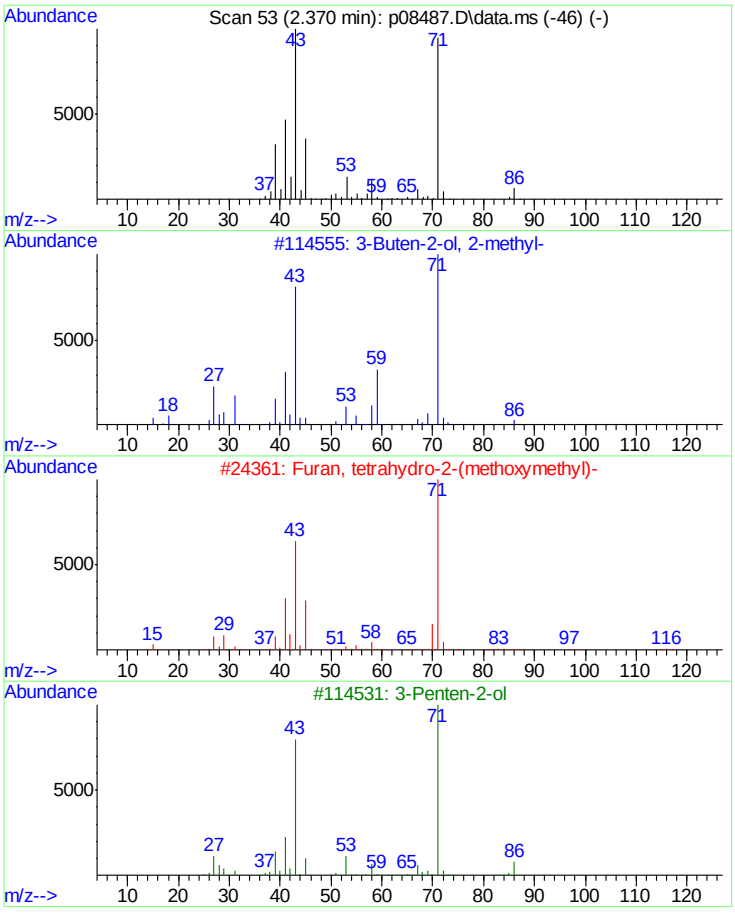
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

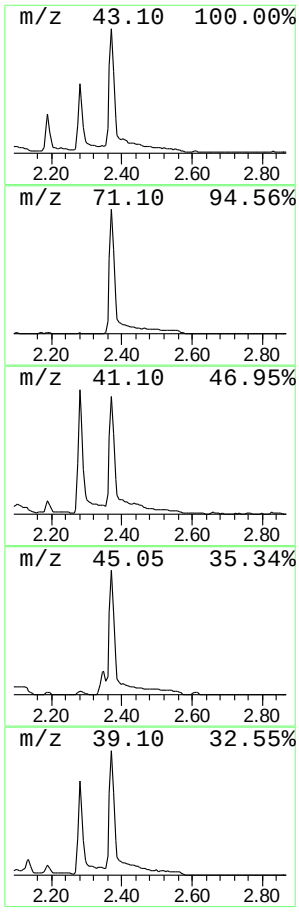
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 3-Buten-2-ol, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.370	10.85 ppm	937262	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	72
2	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	72
3	3-Penten-2-ol	86	C5H10O	001569-50-2	64
4	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	64
5	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	59





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

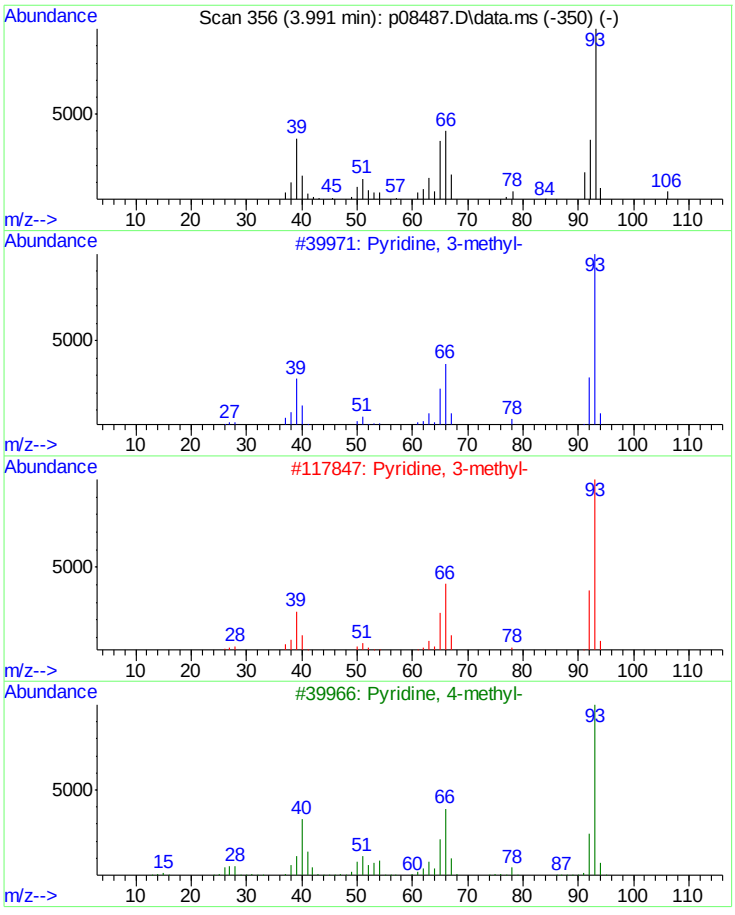
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

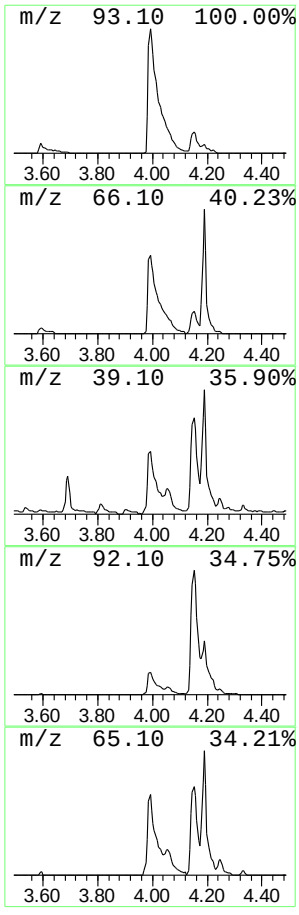
****

Peak Number 2 Pyridine, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.991	5.72 ppm	494568	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	94
2	Pyridine, 3-methyl-	93	C6H7N	000108-99-6	93
3	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	91
4	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	91
5	Pyridine, 4-methyl-	93	C6H7N	000108-89-4	90





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

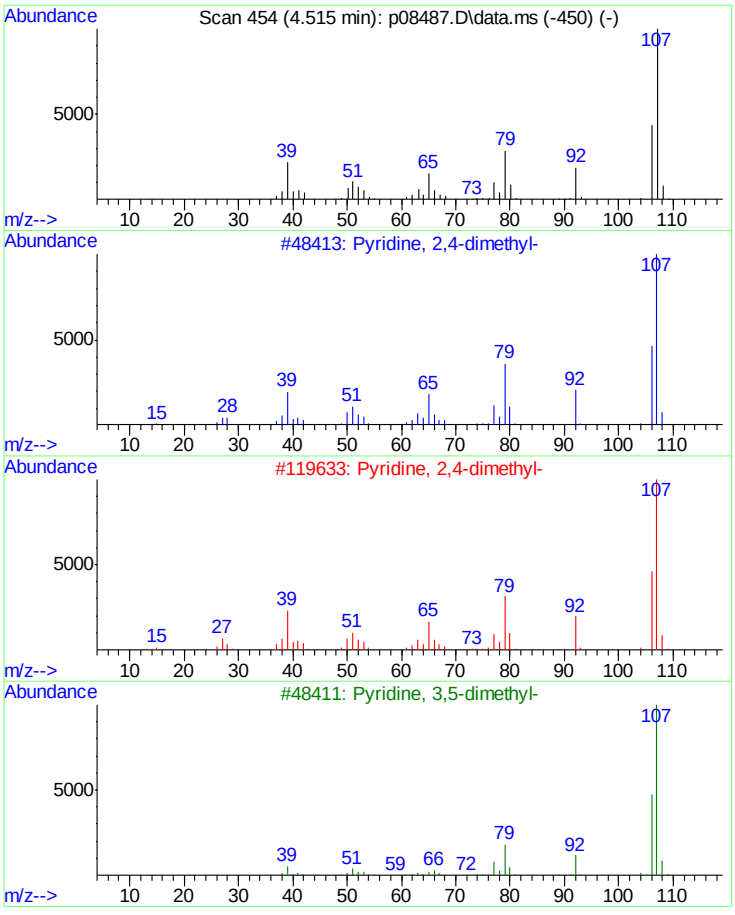
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

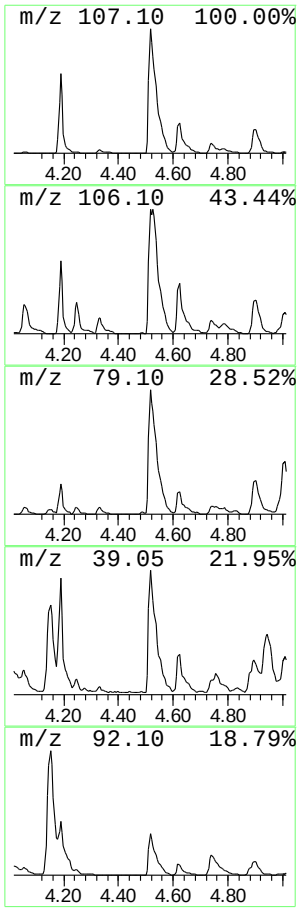
****

Peak Number 3 Pyridine, 2,4-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.515	14.64 ppm	1264940	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	96
2	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	94
3	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	91
4	Pyridine, 2,4-dimethyl-	107	C7H9N	000108-47-4	91
5	Pyridine, 3,4-dimethyl-	107	C7H9N	000583-58-4	91





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

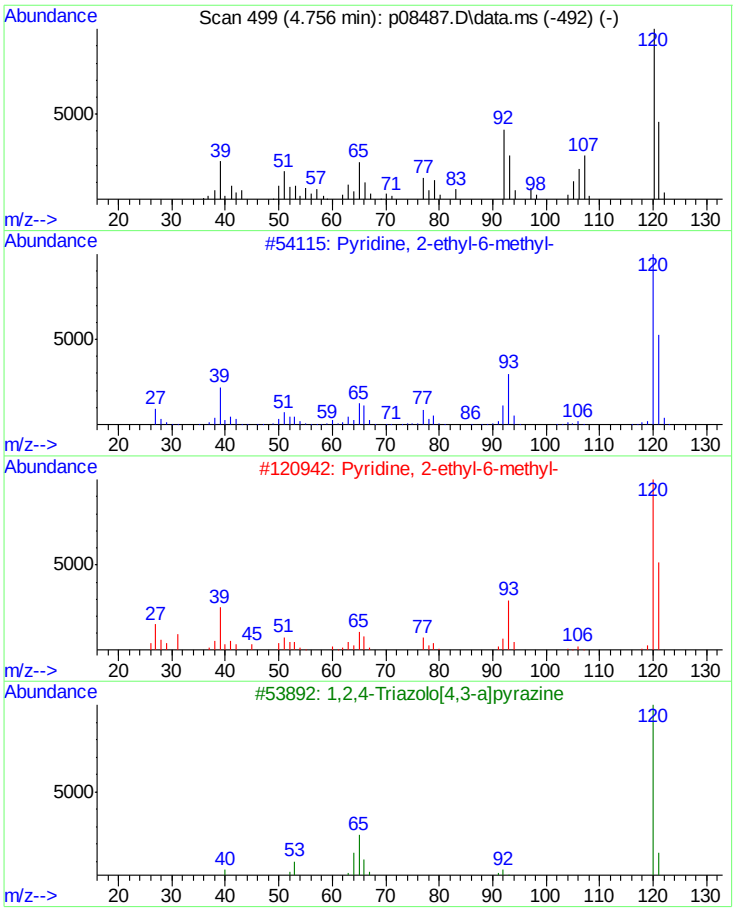
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

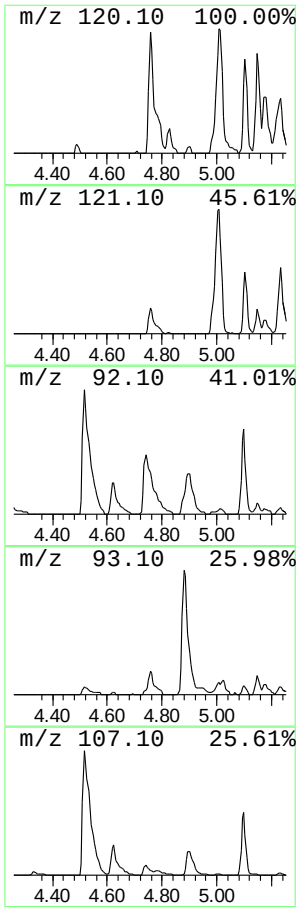
****

Peak Number 4 Pyridine, 2-ethyl-6-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.756	4.02 ppm	347331	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-ethyl-6-methyl-	121	C8H11N	001122-69-6	52
2	Pyridine, 2-ethyl-6-methyl-	121	C8H11N	001122-69-6	49
3	1,2,4-Triazolo[4,3-a]pyrazine	120	C5H4N4	000274-82-8	43
4	Benzenemethanamine, N-methyl-	121	C8H11N	000103-67-3	38
5	1,2,4-Triazolo[4,3-b]pyridazine	120	C5H4N4	000274-83-9	32





ACCUTEST Laboratories

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

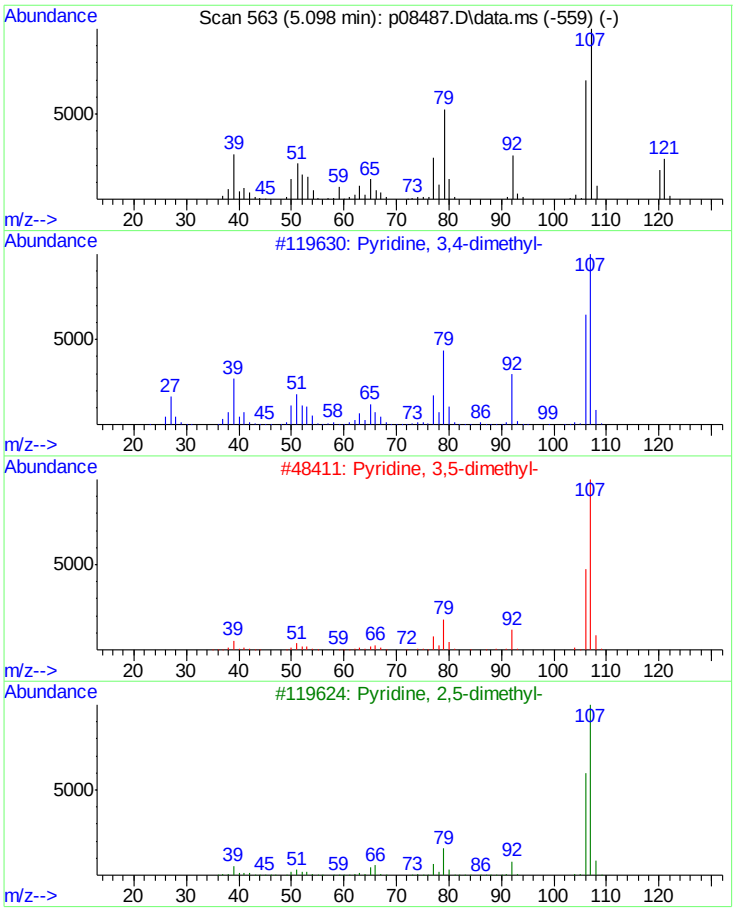
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

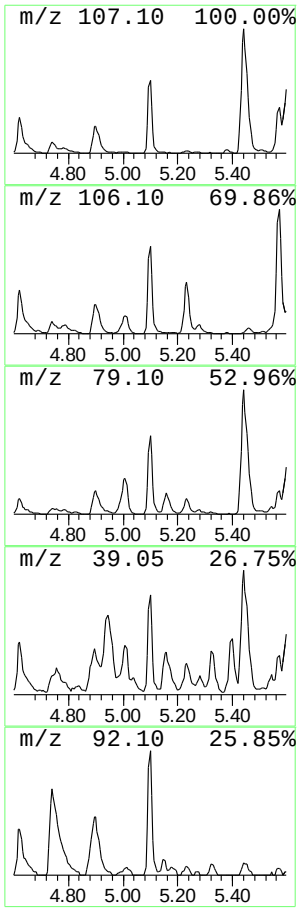
****

Peak Number 5 Pyridine, 3,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.098	6.45 ppm	557324	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 3,4-dimethyl-	107	C7H9N	000583-58-4	94
2	Pyridine, 3,5-dimethyl-	107	C7H9N	000591-22-0	93
3	Pyridine, 2,5-dimethyl-	107	C7H9N	000589-93-5	93
4	Pyridine, 3,4-dimethyl-	107	C7H9N	000583-58-4	93
5	Pyridine, 2,5-dimethyl-	107	C7H9N	000589-93-5	93





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

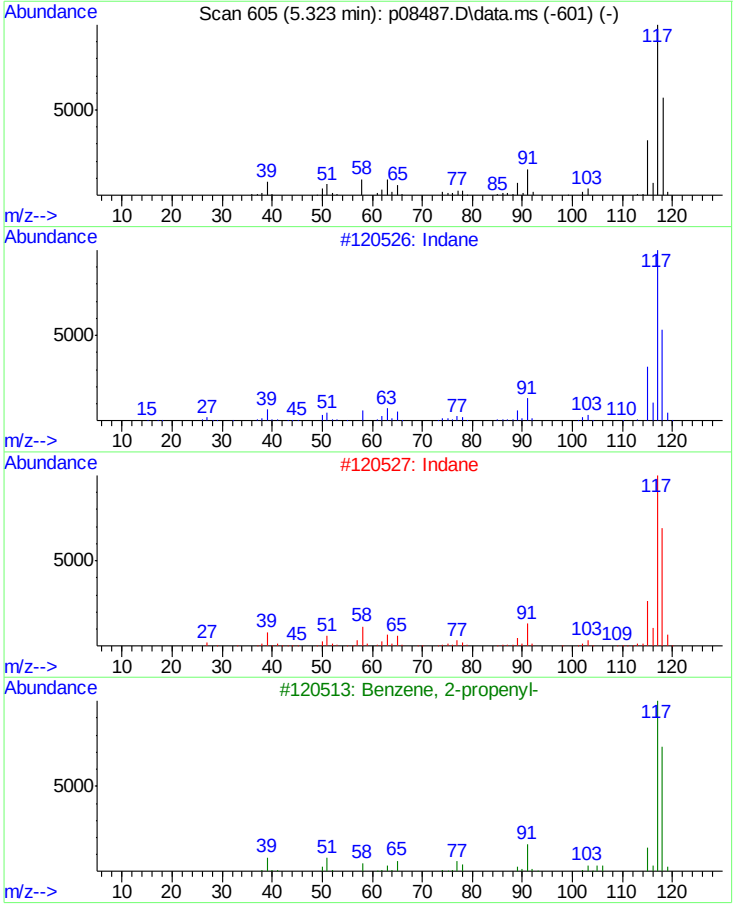
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

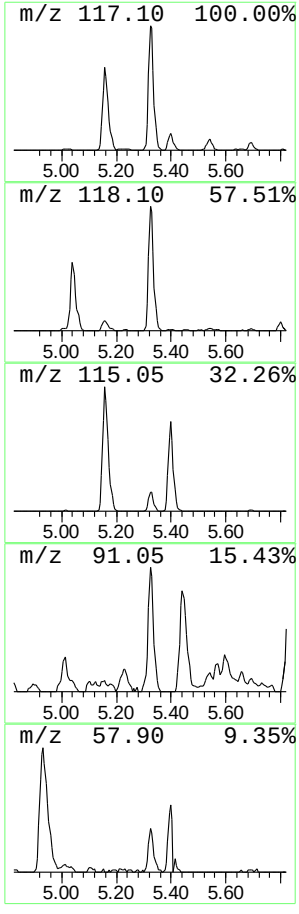
****

Peak Number 6 Indane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.323	5.83 ppm	504023	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Indane	118	C9H10	000496-11-7	74
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64





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Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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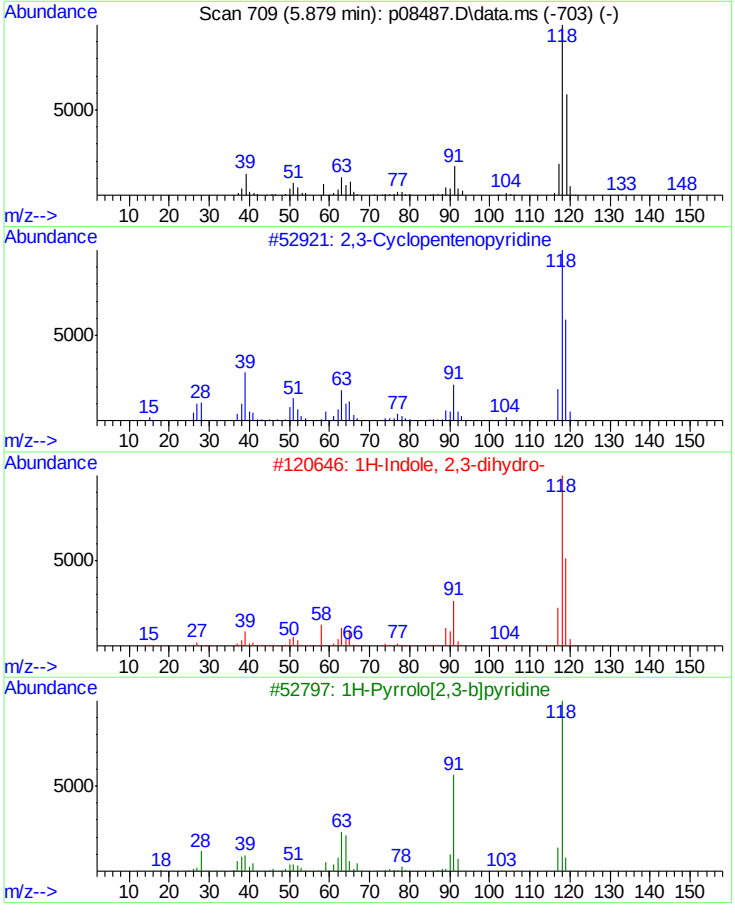
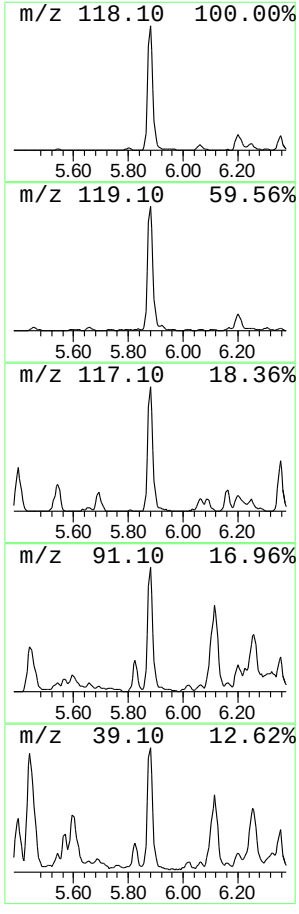
Peak Number 7 2,3-Cyclopentenopyridine Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.879	8.41 ppm	1109560	Naphthalene-d8	6.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Cyclopentenopyridine	119	C8H9N	000533-37-9	87
2	1H-Indole, 2,3-dihydro-	119	C8H9N	000496-15-1	72
3	1H-Pyrrolo[2,3-b]pyridine	118	C7H6N2	000271-63-6	64
4	1H-Indazole	118	C7H6N2	000271-44-3	53
5	1H-Indazole	118	C7H6N2	000271-44-3	53





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Quant Title : SW846 8270C Appendix 9

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TIC Integration Parameters: LSCINT.P

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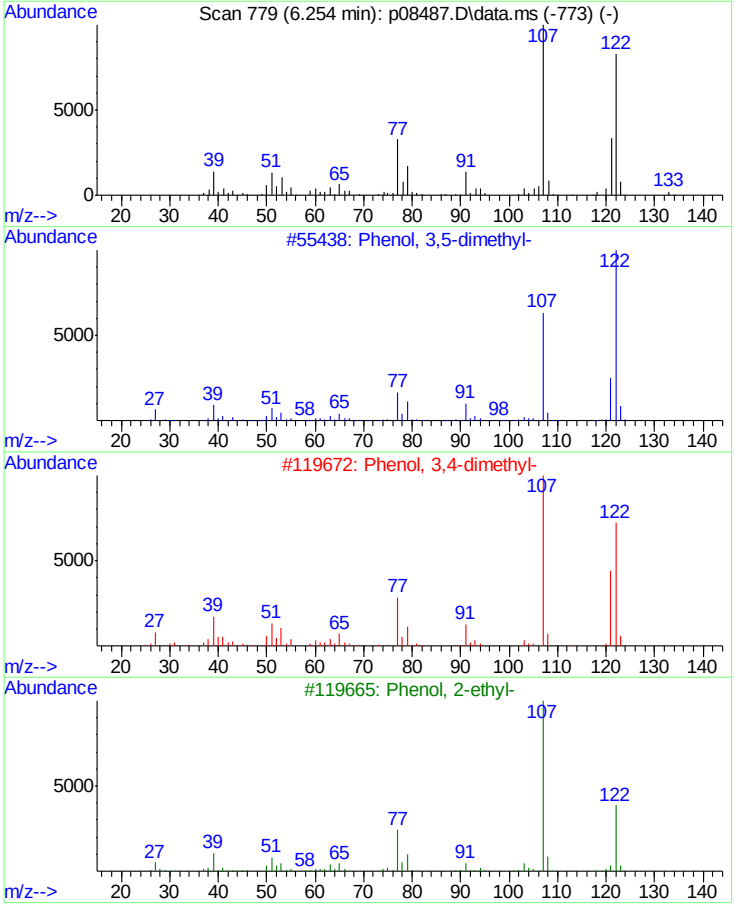
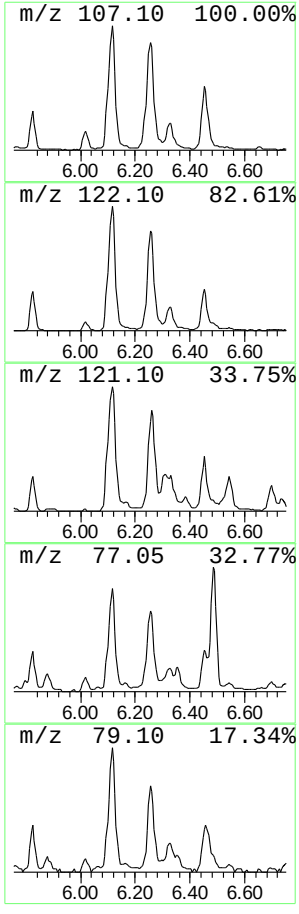
Peak Number 8 Phenol, 3,5-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.254	5.17 ppm	681934	Naphthalene-d8	6.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3,5-dimethyl-	122	C8H10O	000108-68-9	91
2	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	91
3	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	91
4	Phenol, 3-ethyl-	122	C8H10O	000620-17-7	91
5	Phenol, 3,4-dimethyl-	122	C8H10O	000095-65-8	90





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Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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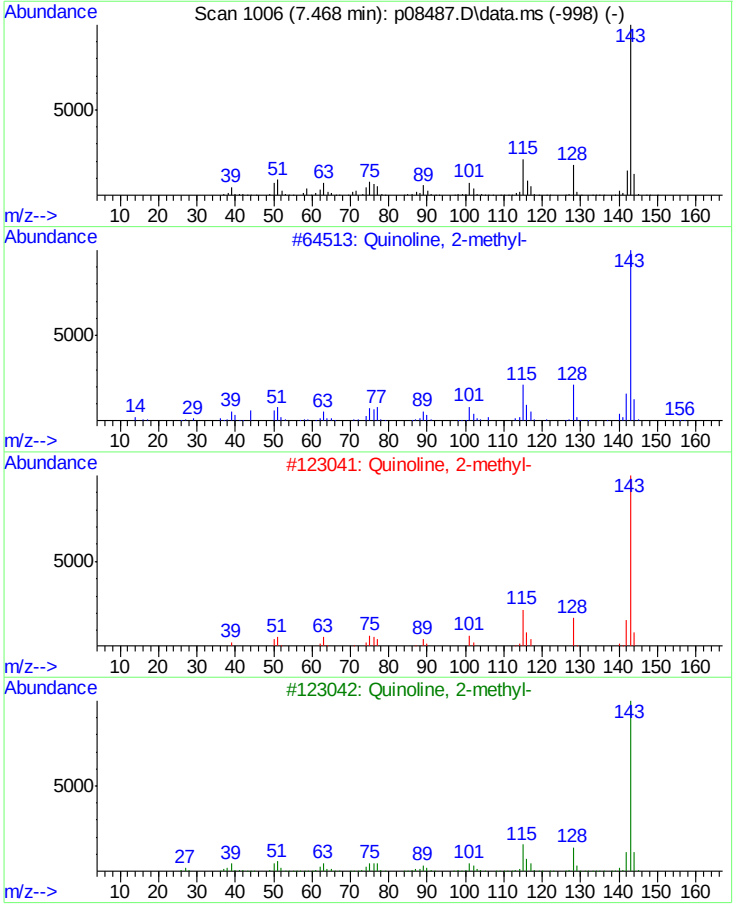
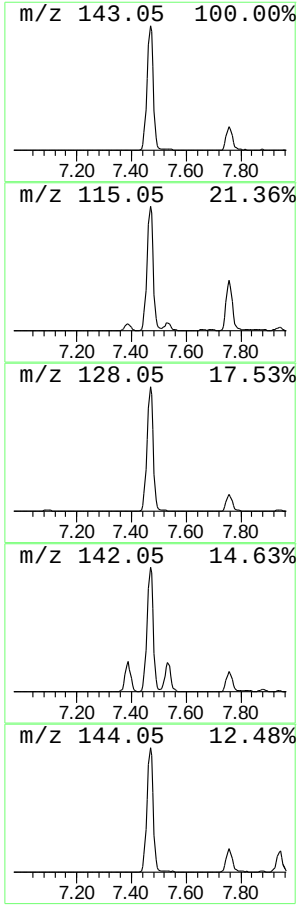
Peak Number 9 Quinoline, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.468	44.26 ppm	5836670	Naphthalene-d8	6.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2-methyl-	143	C10H9N	000091-63-4	96
2	Quinoline, 2-methyl-	143	C10H9N	000091-63-4	96
3	Quinoline, 2-methyl-	143	C10H9N	000091-63-4	94
4	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	91
5	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	90





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Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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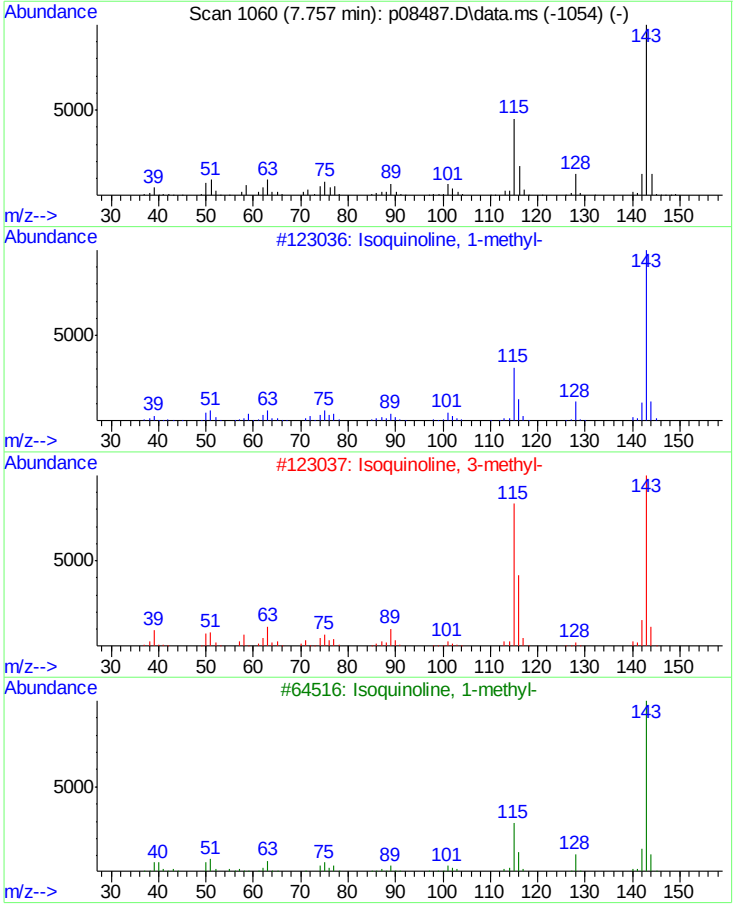
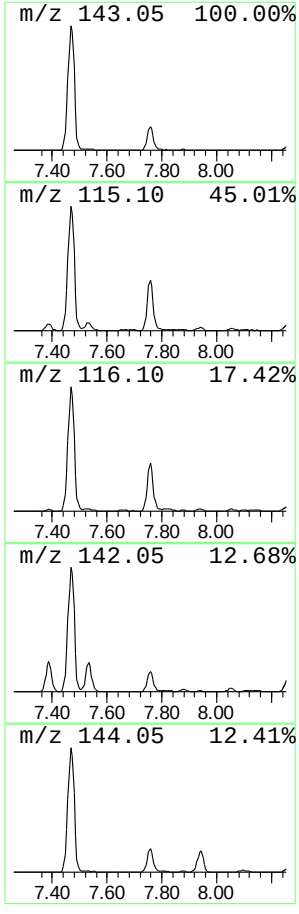
Peak Number 10 Isoquinoline, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.757	9.17 ppm	1209870	Naphthalene-d8	6.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	95
2	Isoquinoline, 3-methyl-	143	C10H9N	001125-80-0	90
3	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	87
4	2-Naphthalenamine	143	C10H9N	000091-59-8	87
5	1-Naphthalenamine	143	C10H9N	000134-32-7	87





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Quant Title : SW846 8270C Appendix 9

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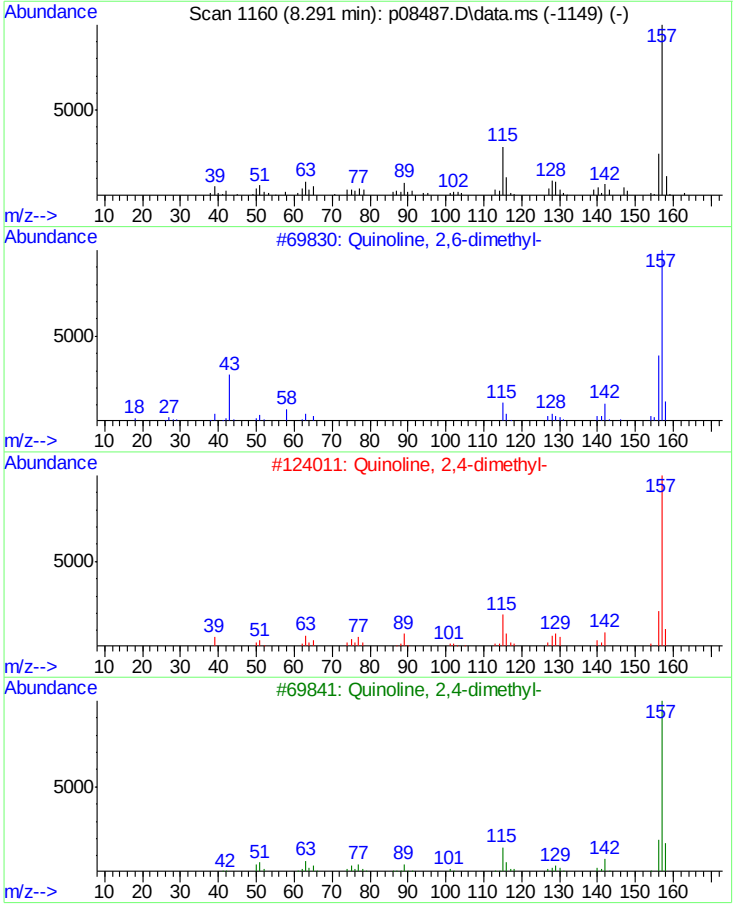
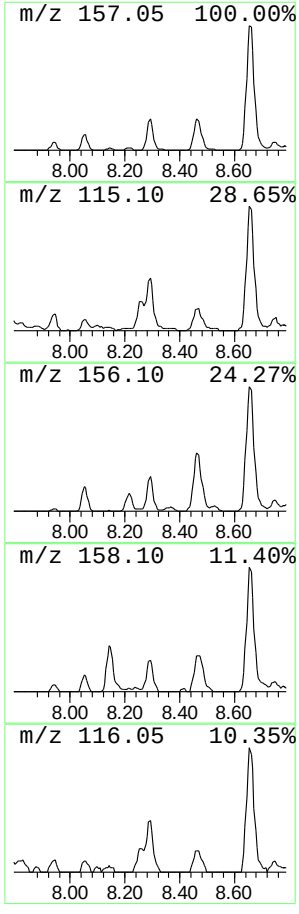
Peak Number 11 Quinoline, 2,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.291	4.17 ppm	578886	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	86
2	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	76
3	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	74
4	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	68
5	Quinoline, 2,3-dimethyl-	157	C11H11N	001721-89-7	64





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Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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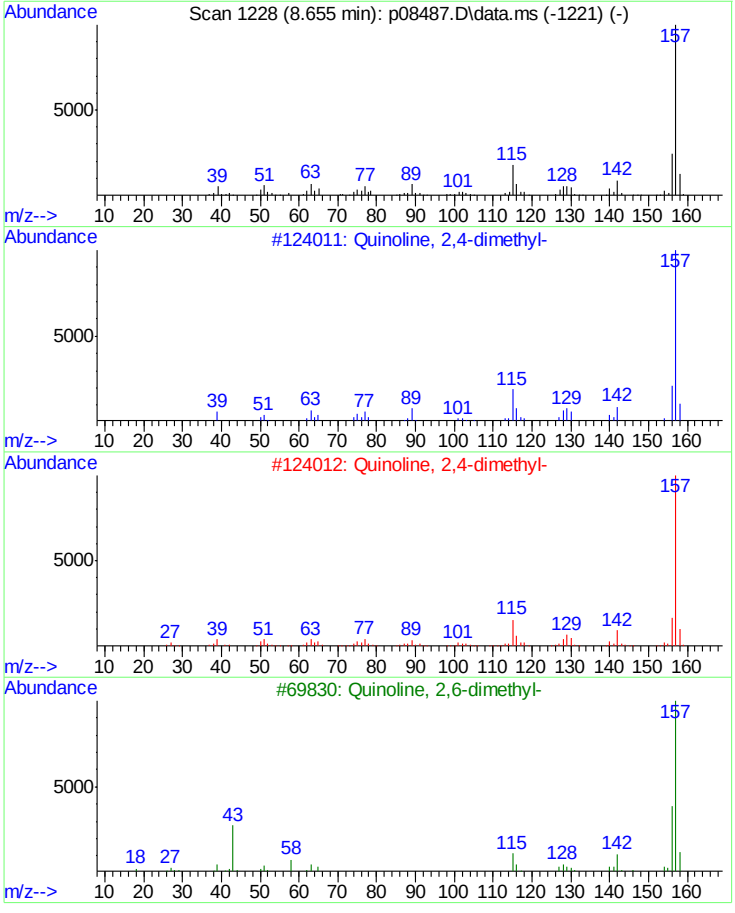
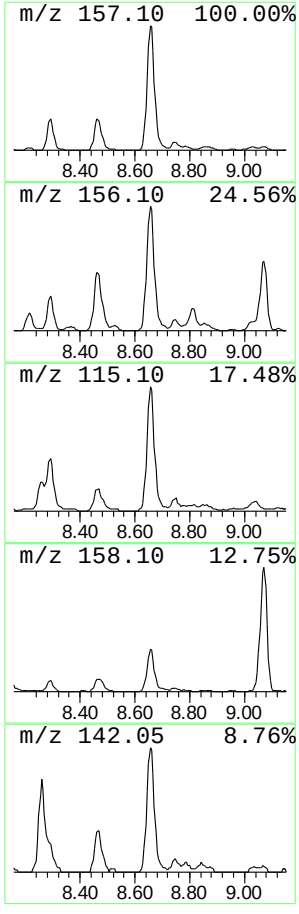
Peak Number 12 Quinoline, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.655	11.02 ppm	1529770	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	94
2	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	93
3	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	90
4	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	90
5	Quinoline, 2,4-dimethyl-	157	C11H11N	001198-37-4	90





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Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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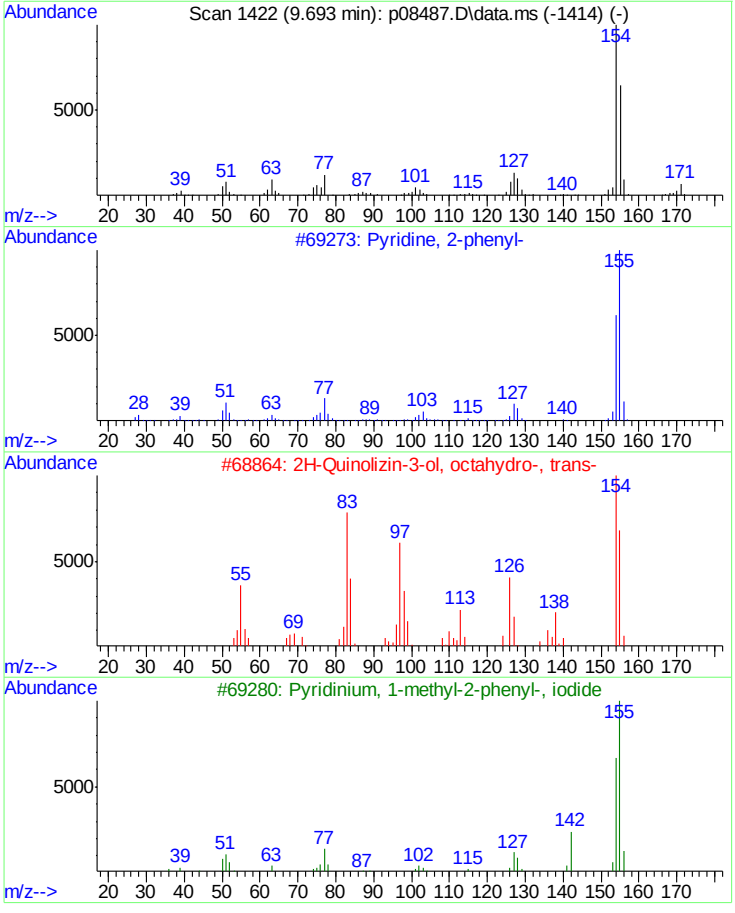
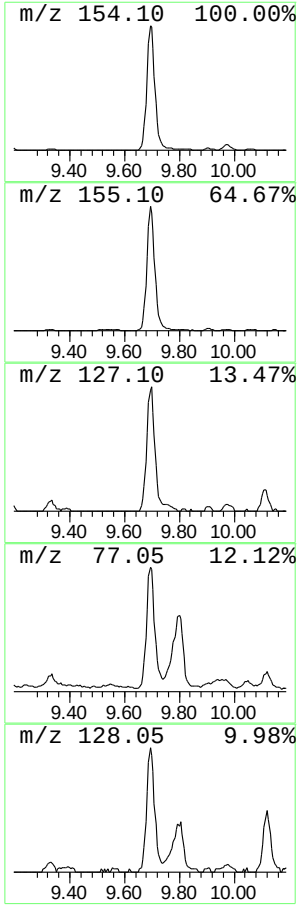
Peak Number 13 Pyridine, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.693	10.86 ppm	1507500	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 2-phenyl-	155	C11H9N	001008-89-5	62
2	2H-Quinolizin-3-ol, octahydro-, ...	155	C9H17NO	015769-36-5	59
3	Pyridinium, 1-methyl-2-phenyl-, ...	297	C12H12IN	052806-02-7	53
4	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	50
5	Acenaphthene	154	C12H10	000083-32-9	47





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Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

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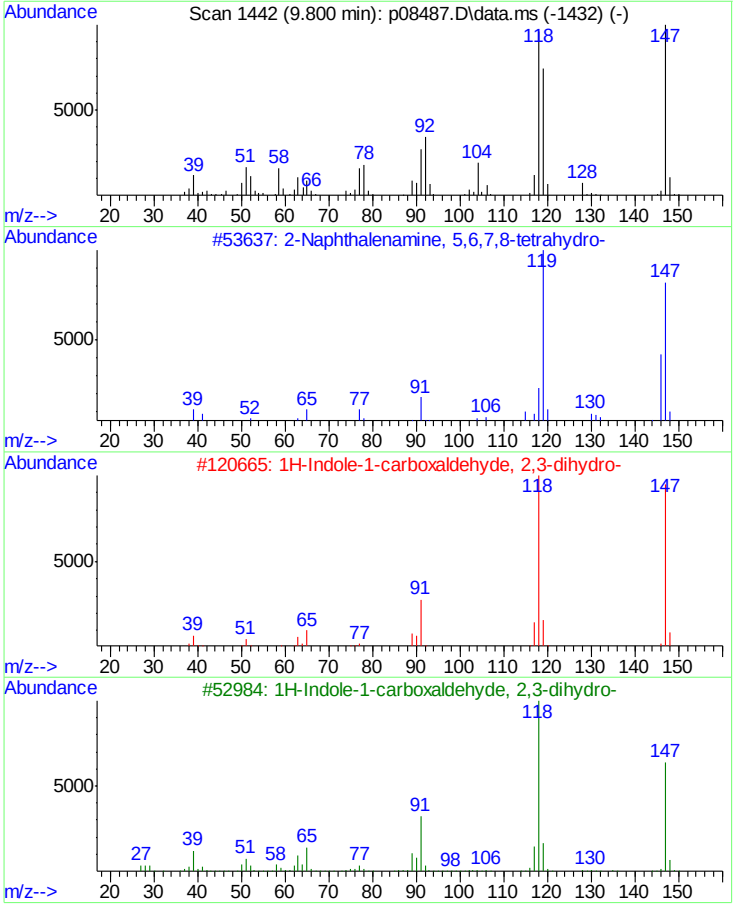
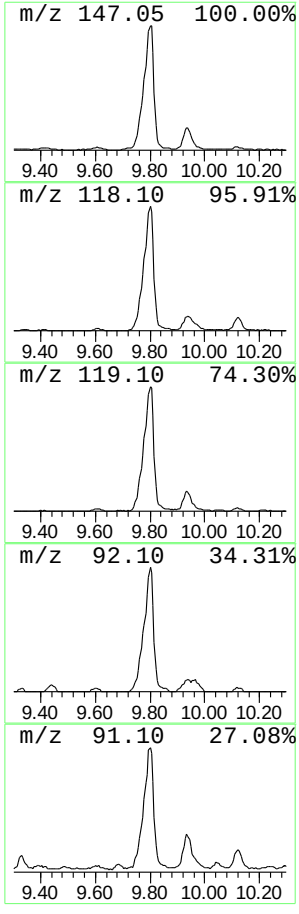
Peak Number 14 2-Naphthalenamine, 5,6,7,8-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.800	10.70 ppm	1484490	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenamine, 5,6,7,8-tetra...	147	C10H13N	002217-43-8	76
2	1H-Indole-1-carboxaldehyde, 2,3-...	147	C9H9NO	002861-59-8	60
3	1H-Indole-1-carboxaldehyde, 2,3-...	147	C9H9NO	002861-59-8	60
4	Pyrido[3,2-d]pyrimidin-4-ol	147	C7H5N3O	037538-67-3	52
5	5,6-Dimethyl-1H-benzotriazole	147	C8H9N3	004184-79-6	50





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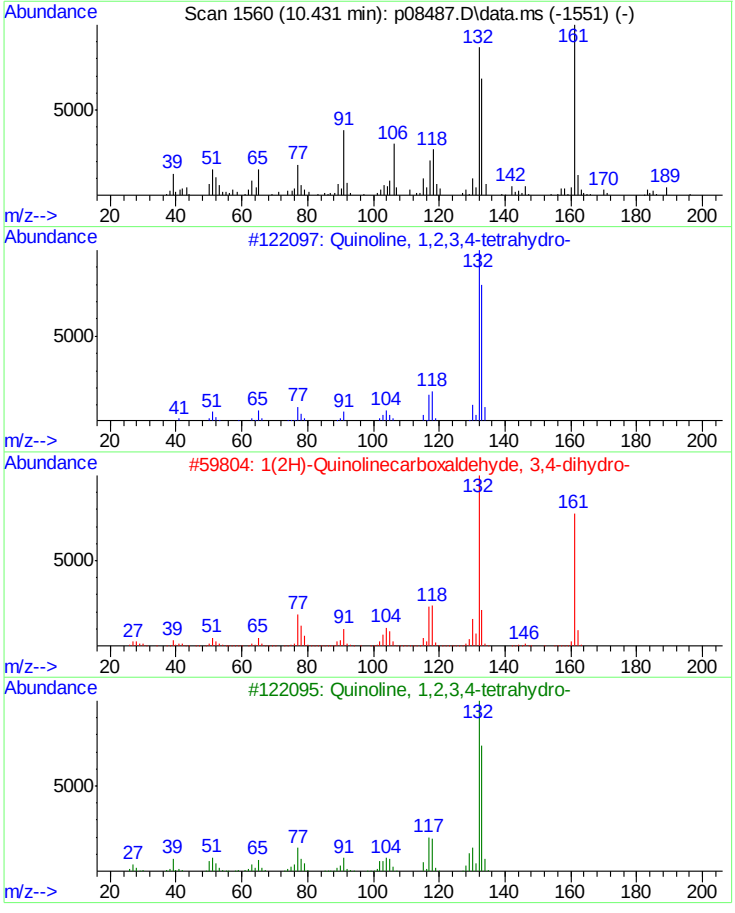
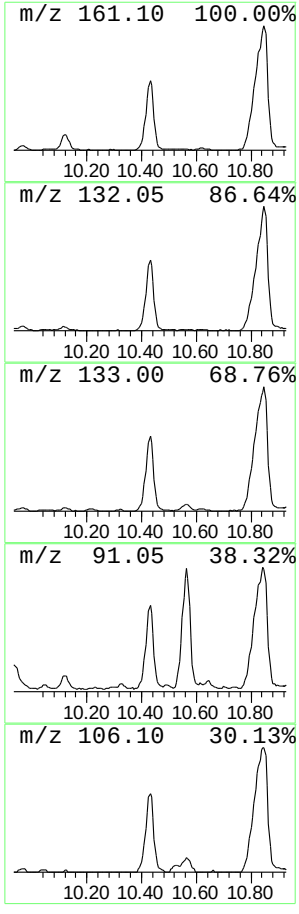
Peak Number 15 Quinoline, 1,2,3,4-tetrahydro- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.431	6.96 ppm	965188	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	78
2	1(2H)-Quinolinecarboxaldehyde, 3...	161	C10H11NO	002739-16-4	64
3	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	49
4	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	49
5	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	000155-09-9	49





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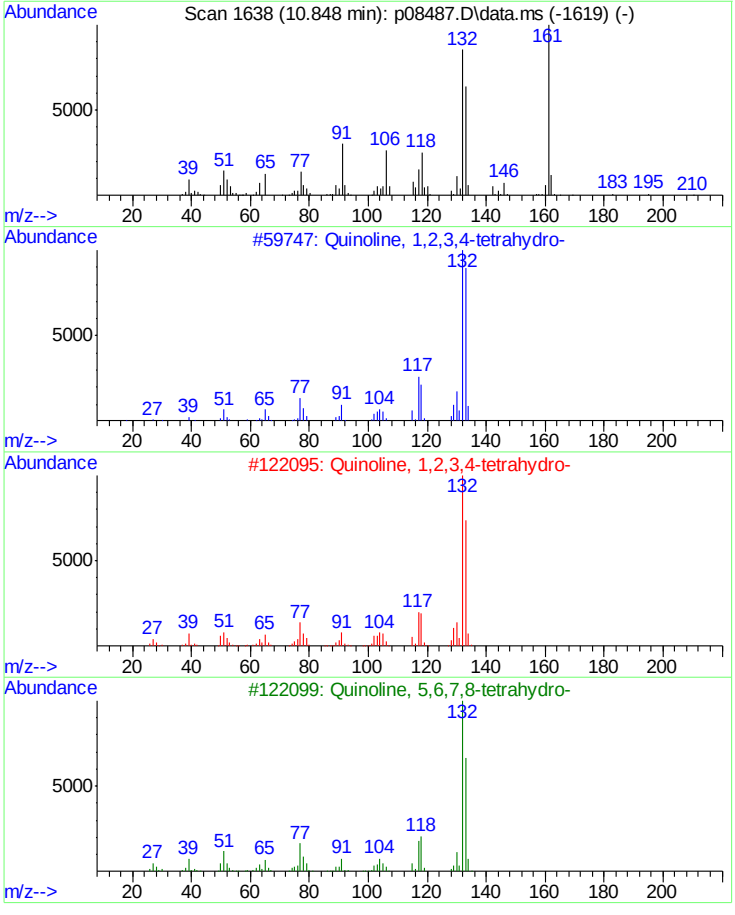
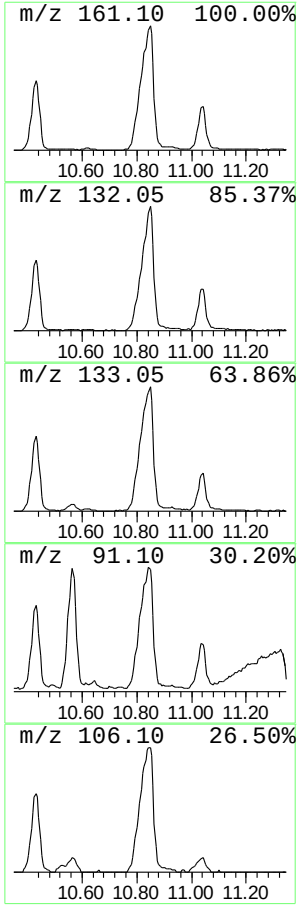
Peak Number 16 Quinoline, 1,2,3,4-tetrahydro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.848	12.44 ppm	2180920	Phenanthrene-d10	11.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	86
2	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	64
3	Quinoline, 5,6,7,8-tetrahydro-	133	C9H11N	010500-57-9	55
4	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	49
5	Quinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000635-46-1	46





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TIC Integration Parameters: LSCINT.P

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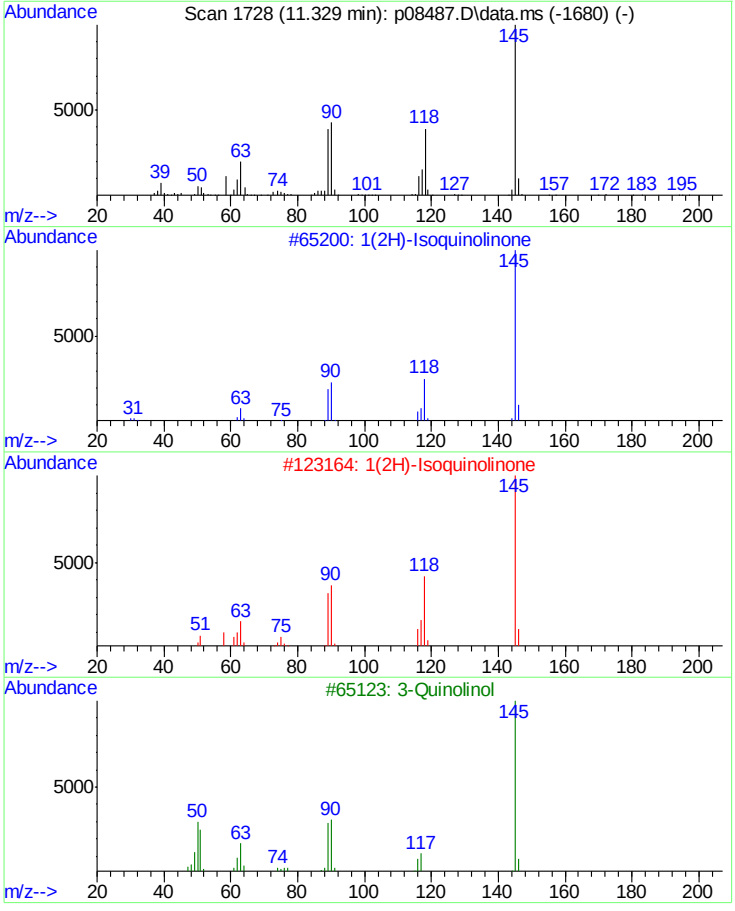
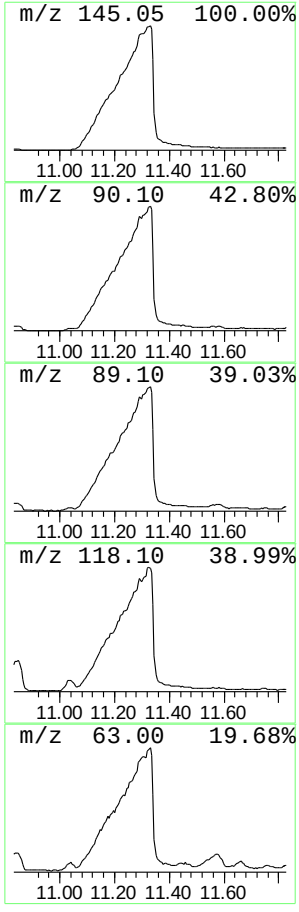
Peak Number 17 1(2H)-Isoquinolinone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.329	50.13 ppm	8790210	Phenanthrene-d10	11.934

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	94
3	3-Quinolinol	145	C9H7NO	000580-18-7	87
4	5-Isoquinolinol	145	C9H7NO	002439-04-5	74
5	Quinoline, 1-oxide	145	C9H7NO	001613-37-2	64





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Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

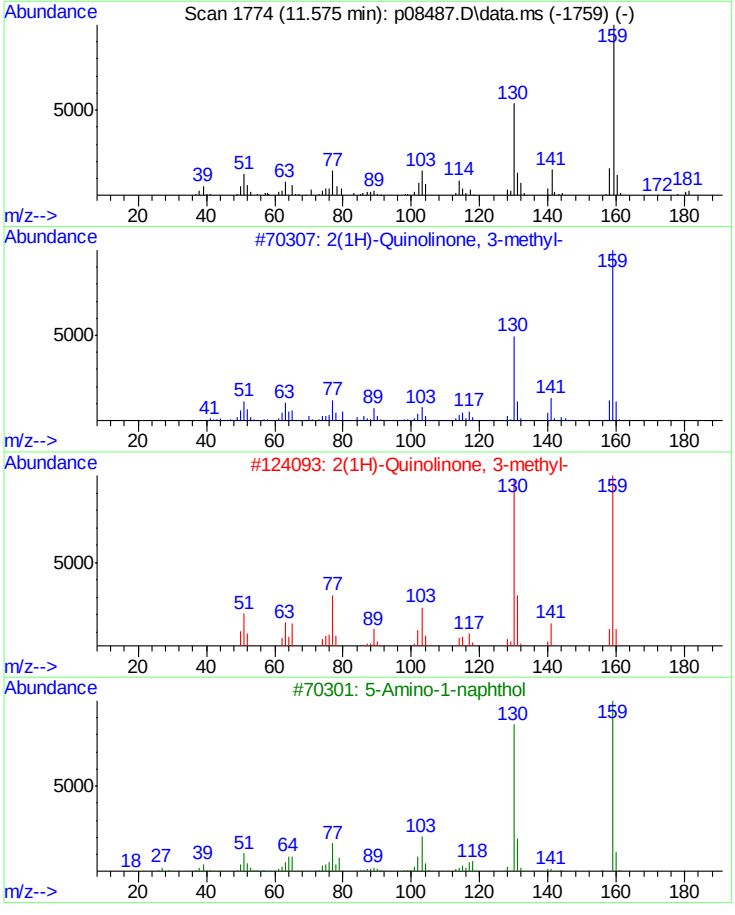
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

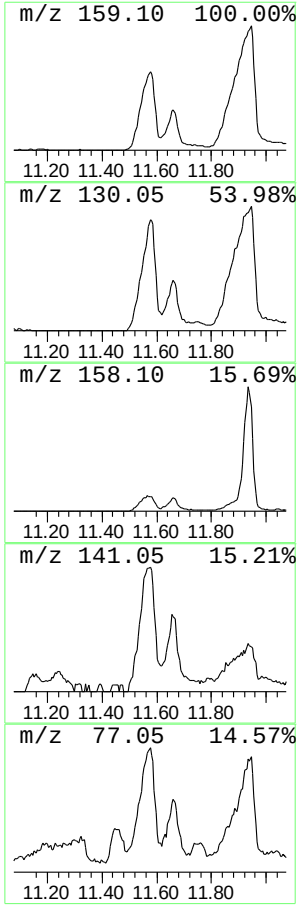
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 2(1H)-Quinolinone, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.576	6.06 ppm	1062240	Phenanthrene-d10	11.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	91
2	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	86
3	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	81
4	8-Quinolinol, 2-methyl-	159	C10H9NO	000826-81-3	81
5	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	80





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

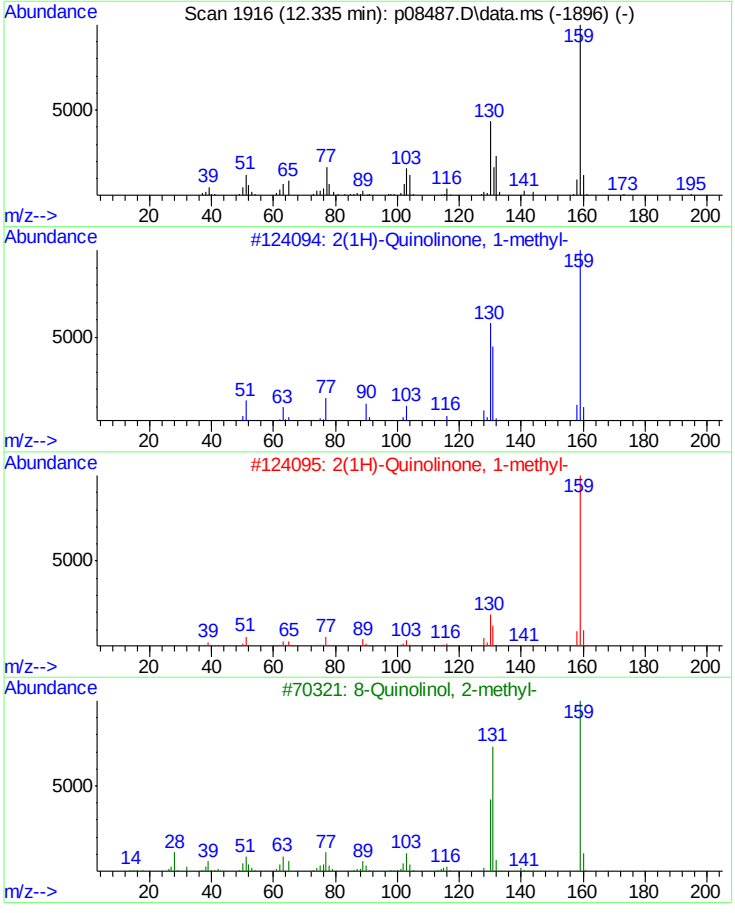
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

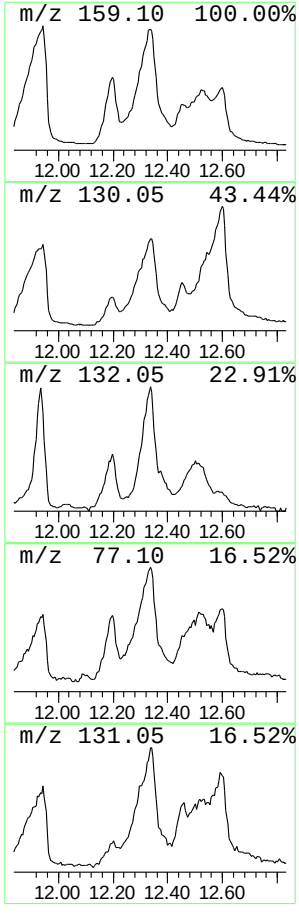
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 2(1H)-Quinolinone, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.335	8.08 ppm	1416940	Phenanthrene-d10	11.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	72
2	2(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000606-43-9	64
3	8-Quinolinol, 2-methyl-	159	C10H9NO	000826-81-3	64
4	2(1H)-Quinolinone, 3-methyl-	159	C10H9NO	002721-59-7	64
5	2H-1,4-Ethanoquinoline, 3,4-dihy...	159	C11H13N	004363-25-1	64





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On    :  3 Feb 2010  10:20 pm
Operator  : garyj
Sample    : t46705-1
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
```
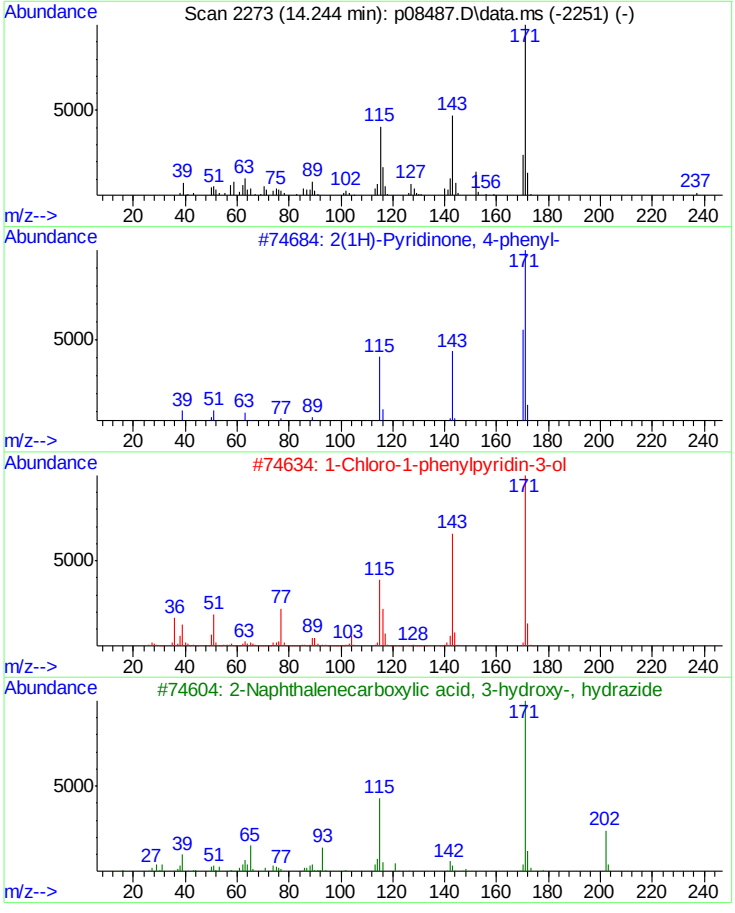
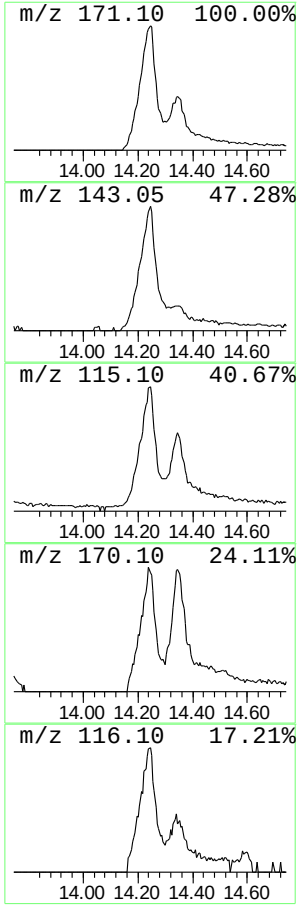

****

Peak Number 20 2(1H)-Pyridinone, 4-phenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.244	4.35 ppm	763402	Phenanthrene-d10	11.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Pyridinone, 4-phenyl-	171	C11H9NO	019006-81-6	81
2	1-Chloro-1-phenylpyridin-3-ol	207	C11H10ClNO	1000194-98-2	59
3	2-Naphthalenecarboxylic acid, 3-...	202	C11H10N2O2	005341-58-2	53
4	Pyridine, 4-phenyl-, 1-oxide	171	C11H9NO	001131-61-9	49
5	2(1H)-Pyridinone, 6-phenyl-	171	C11H9NO	019006-82-7	49





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08487.D
Acq On : 3 Feb 2010 10:20 pm
Operator : garyj
Sample : t46705-1
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
3-Buten-2-ol, 2...	2.370	10.8	ppm	937262	1	5.157	3456650	40.0
Pyridine, 3-met...	3.991	5.7	ppm	494568	1	5.157	3456650	40.0
Pyridine, 2,4-d...	4.515	14.6	ppm	1264940	1	5.157	3456650	40.0
Pyridine, 2-eth...	4.756	4.0	ppm	347331	1	5.157	3456650	40.0
Pyridine, 3,4-d...	5.098	6.4	ppm	557324	1	5.157	3456650	40.0
Indane	5.323	5.8	ppm	504023	1	5.157	3456650	40.0
2,3-Cyclopenten...	5.879	8.4	ppm	1109560	2	6.462	5274670	40.0
Phenol, 3,5-dim...	6.254	5.2	ppm	681934	2	6.462	5274670	40.0
Quinoline, 2-me...	7.468	44.3	ppm	5836670	2	6.462	5274670	40.0
Isoquinoline, 1...	7.757	9.2	ppm	1209870	2	6.462	5274670	40.0
Quinoline, 2,6-...	8.291	4.2	ppm	578886	3	9.072	5550720	40.0
Quinoline, 2,4-...	8.655	11.0	ppm	1529770	3	9.072	5550720	40.0
Pyridine, 2-phe...	9.693	10.9	ppm	1507500	3	9.072	5550720	40.0
2-Naphthalenami...	9.800	10.7	ppm	1484490	3	9.072	5550720	40.0
Quinoline, 1,2,...	10.431	7.0	ppm	965188	3	9.072	5550720	40.0
Quinoline, 1,2,...	10.848	12.4	ppm	2180920	4	11.934	7014320	40.0
1(2H)-Isoquinol...	11.329	50.1	ppm	8790210	4	11.934	7014320	40.0
2(1H)-Quinolino...	11.576	6.1	ppm	1062240	4	11.934	7014320	40.0
2(1H)-Quinolino...	12.335	8.1	ppm	1416940	4	11.934	7014320	40.0
2(1H)-Pyridinon...	14.244	4.4	ppm	763402	4	11.934	7014320	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 04 13:48:44 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

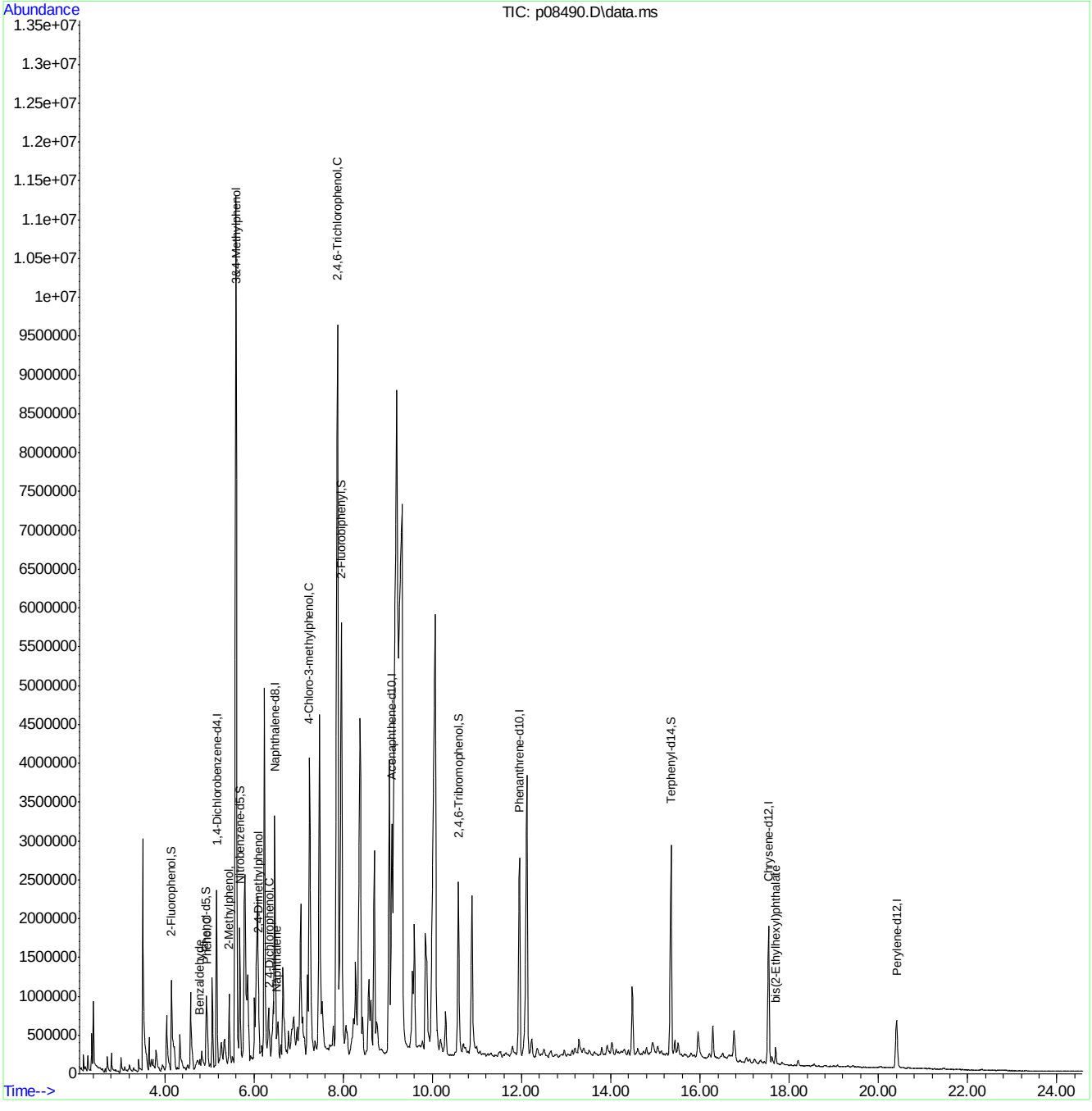
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	529423	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1844105	40.00	ppm	0.00
46) Acenaphthene-d10	9.088	164	1211727	40.00	ppm	0.02
70) Phenanthrene-d10	11.950	188	2098349	40.00	ppm	0.01
85) Chrysene-d12	17.534	240	1583978	40.00	ppm	0.00
94) Perylene-d12	20.406	264	596063	40.00	ppm	0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.151	112	732827	37.50	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 37.50%			
12) Phenol-d5	4.932	99	722069	31.63	ppm	0.03
Spiked Amount 100.000	Range 10 - 53		Recovery = 31.63%			
26) Nitrobenzene-d5	5.686	82	779328	33.64	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 67.28%			
50) 2-Fluorobiphenyl	7.960	172	1461608	32.60	ppm	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 65.20%			
75) 2,4,6-Tribromophenol	10.586	330	512266	94.11	ppm	-0.01
Spiked Amount 100.000	Range 32 - 128		Recovery = 94.11%			
88) Terphenyl-d14	15.346	244	1875069	45.84	ppm	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 91.68%			
Target Compounds						Qvalue
8) Benzaldehyde	4.788	106	26565	4.21	ppm	# 67
13) Phenol	4.943	94	43675	1.70	ppm	# 43
20) 2-Methylphenol	5.440	108	220792	10.33	ppm	97
24) 3&4-Methylphenol	5.601	108	5781061	292.37	ppm	# 54
30) 2,4-Dimethylphenol	6.104	107	185303	9.24	ppm	95
33) 2,4-Dichlorophenol	6.344	162	42448	2.71	ppm	# 75
35) Naphthalene	6.515	128	74603	1.44	ppm	# 69
42) 4-Chloro-3-methylphenol	7.243	107	1198840	73.15	ppm	98
48) 2,4,6-Trichlorophenol	7.879	196	3869959	326.18	ppm	99
93) bis(2-Ethylhexyl)phtha...	17.694	149	104667	2.42	ppm	# 91

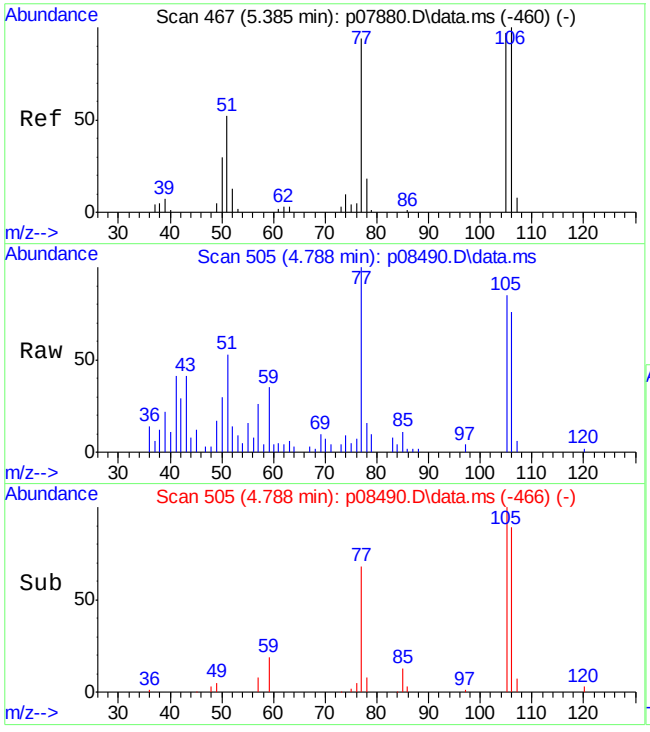
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 04 13:48:44 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

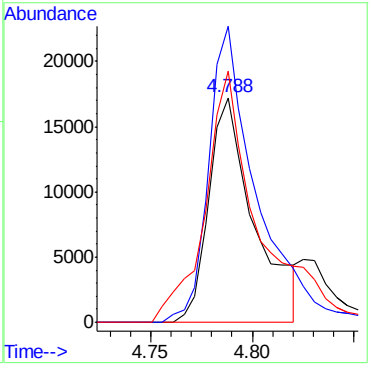


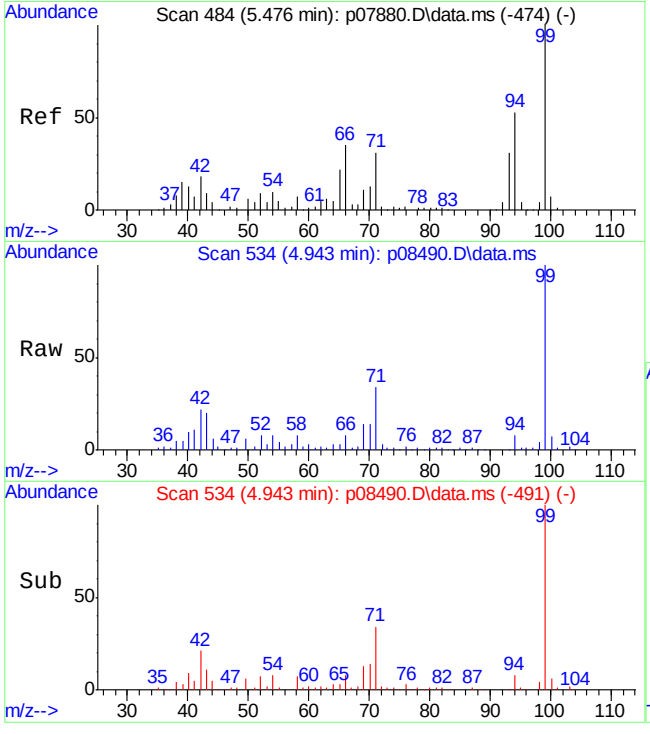


#8
Benzaldehyde
Concen: 4.21 ppm
RT: 4.788 min Scan# 505
Delta R.T. 0.011 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:106 Resp: 26565

Ion	Ratio	Lower	Upper
106	100		
77	139.7	87.2	127.2#
105	132.6	77.5	117.5#

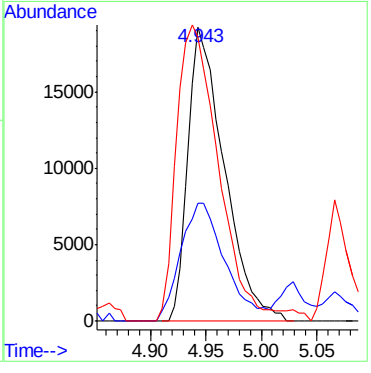


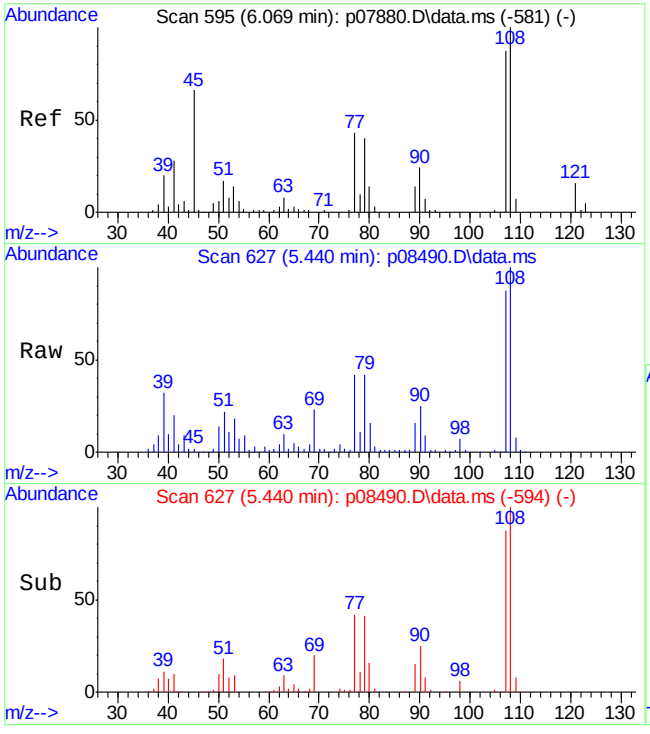


#13
Phenol
Concen: 1.70 ppm
RT: 4.943 min Scan# 534
Delta R.T. 0.031 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion: 94 Resp: 43675

Ion	Ratio	Lower	Upper
94	100		
65	49.3	11.3	71.3
66	118.2	23.8	83.8#

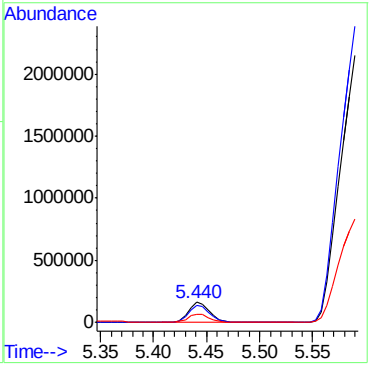


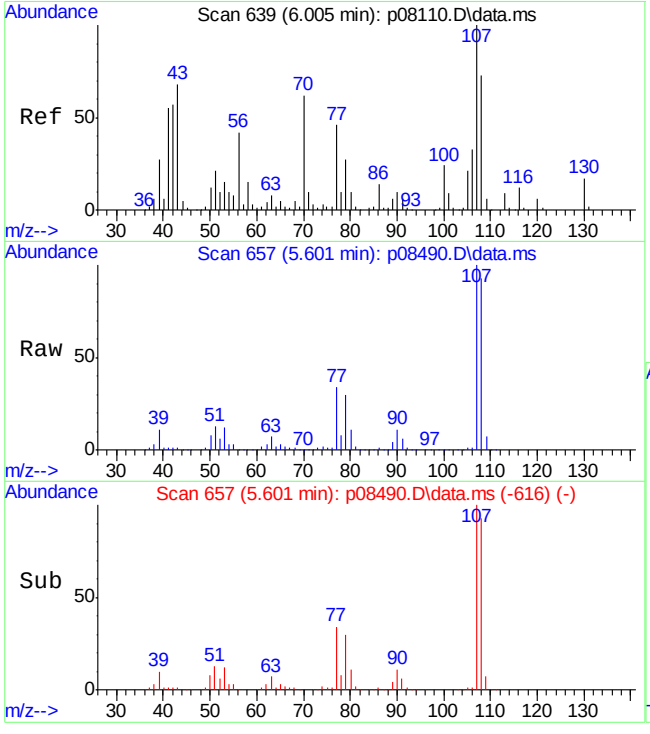


#20
2-Methylphenol
Concen: 10.33 ppm
RT: 5.440 min Scan# 627
Delta R.T. -0.024 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:108 Resp: 220792

Ion	Ratio	Lower	Upper
108	100		
107	85.5	57.6	117.6
77	41.0	14.8	74.8

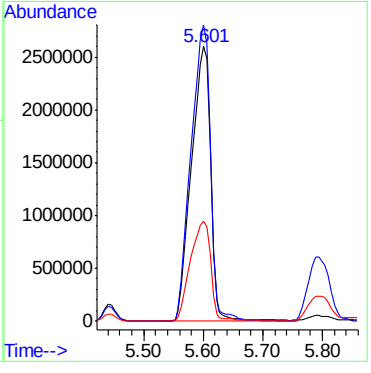


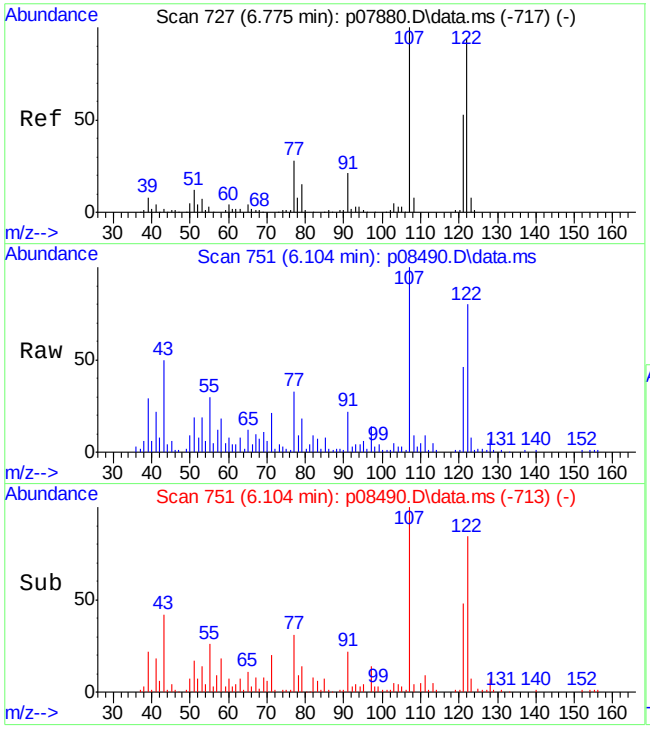


#24
3&4-Methylphenol
Concen: 292.37 ppm
RT: 5.601 min Scan# 657
Delta R.T. 0.017 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:108 Resp: 5781061

Ion	Ratio	Lower	Upper
108	100		
107	110.2	153.6	213.6#
77	38.6	30.6	90.6

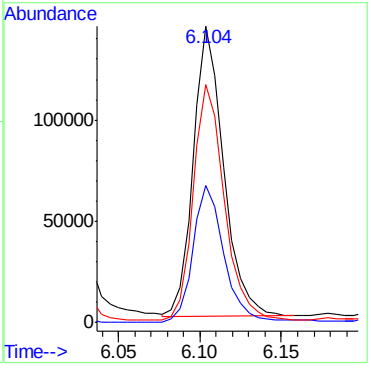


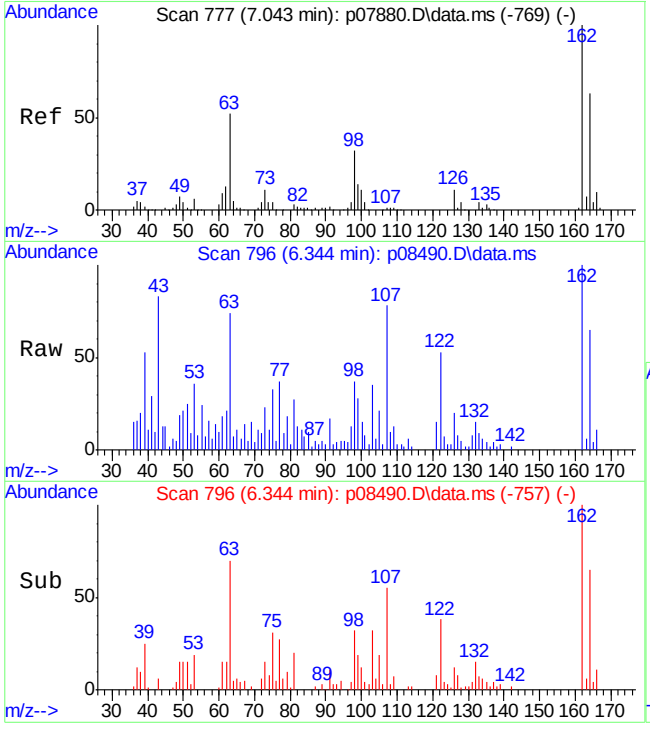


#30
2,4-Dimethylphenol
Concen: 9.24 ppm
RT: 6.104 min Scan# 751
Delta R.T. 0.001 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:107 Resp: 185303

Ion	Ratio	Lower	Upper
107	100		
121	48.8	16.3	76.3
122	83.4	48.1	108.1

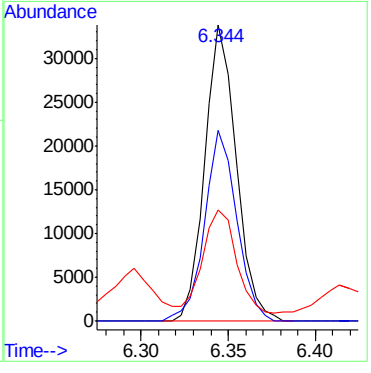


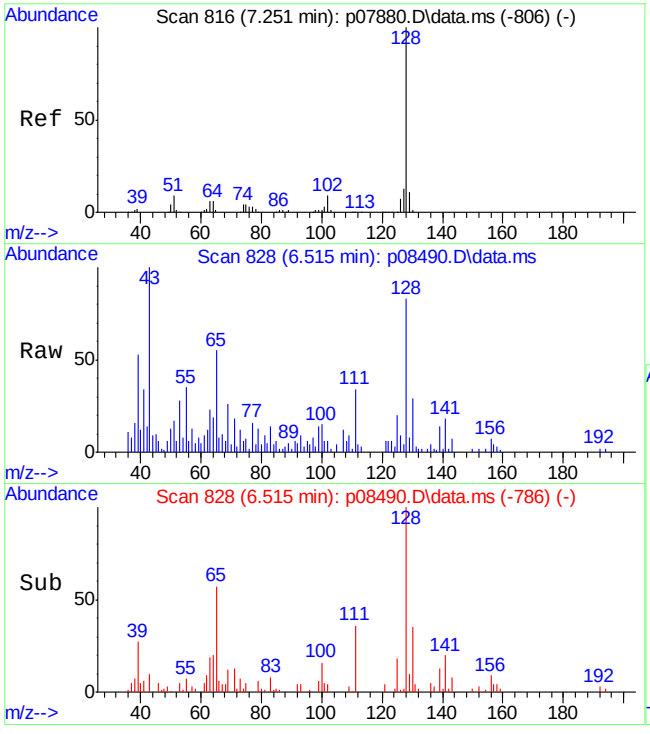


#33
2,4-Dichlorophenol
Concen: 2.71 ppm
RT: 6.344 min Scan# 796
Delta R.T. 0.007 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:162 Resp: 42448

Ion	Ratio	Lower	Upper
162	100		
164	65.5	33.8	93.8
98	0.0	7.9	67.9#

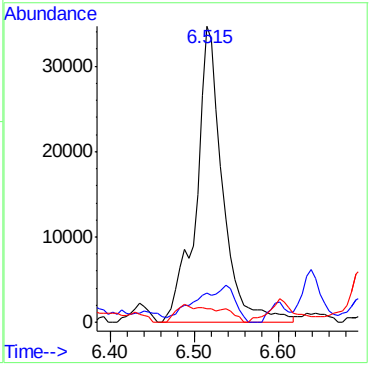


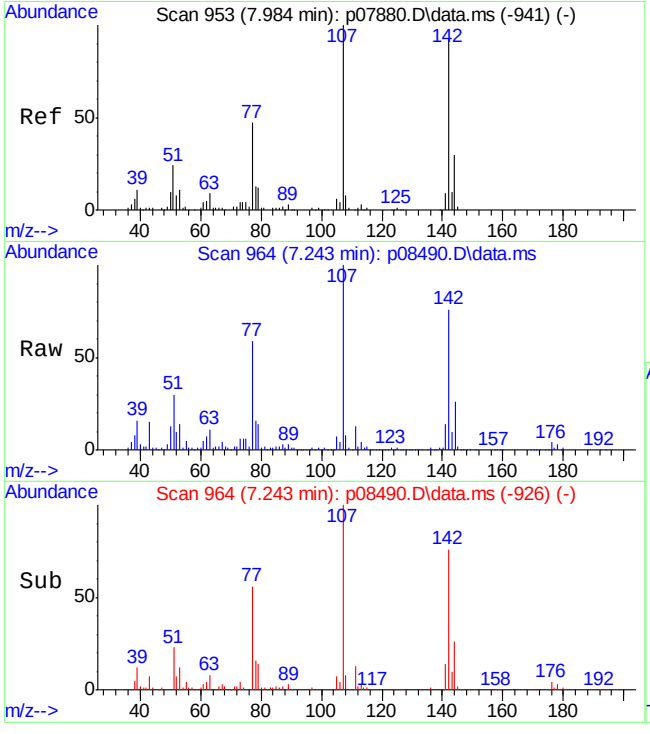


#35
Naphthalene
Concen: 1.44 ppm
RT: 6.515 min Scan# 828
Delta R.T. 0.027 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:128 Resp: 74603

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	40.9
127	0.0	0.0	43.2

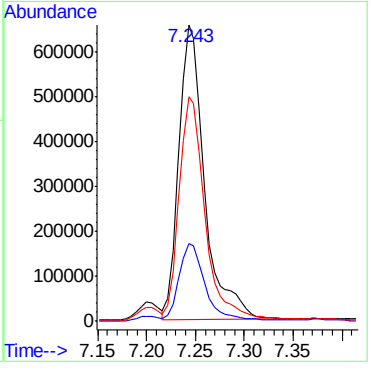


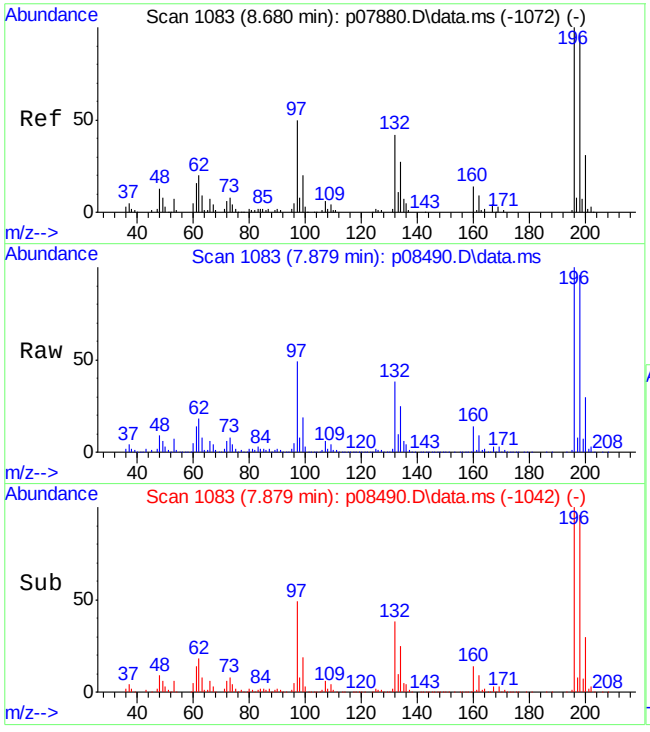


#42
4-Chloro-3-methylphenol
Concen: 73.15 ppm
RT: 7.243 min Scan# 964
Delta R.T. 0.003 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:107 Resp: 1198840

Ion	Ratio	Lower	Upper
107	100		
144	25.6	0.0	55.2
142	75.2	43.1	103.1

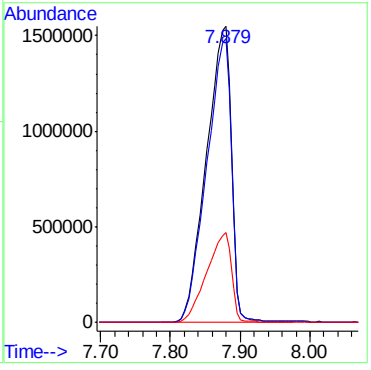


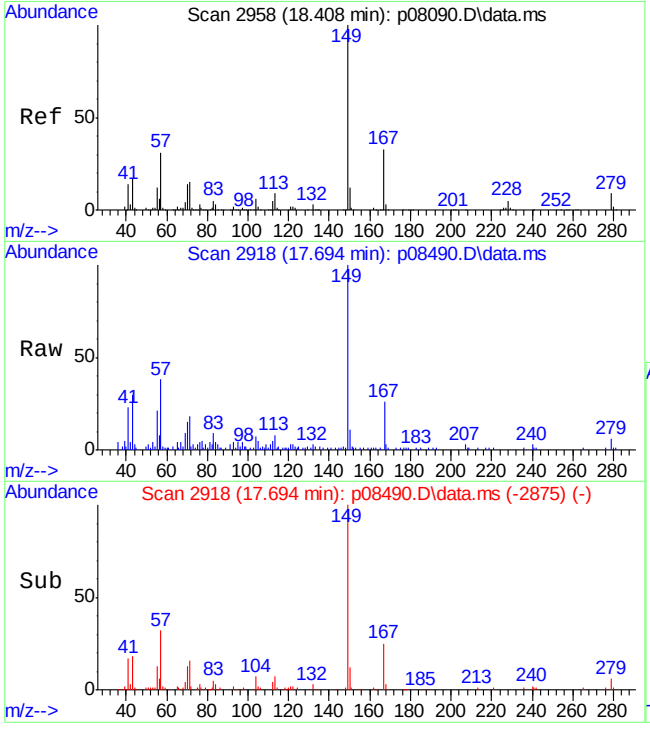


#48
2,4,6-Trichlorophenol
Concen: 326.18 ppm
RT: 7.879 min Scan# 1083
Delta R.T. 0.020 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:196 Resp: 3869959

Ion	Ratio	Lower	Upper
196	100		
198	94.8	63.2	123.2
200	29.8	0.2	60.2

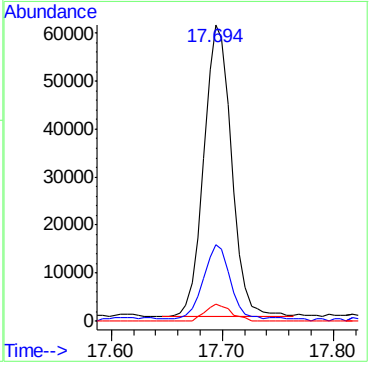




#93
bis(2-Ethylhexyl)phthalate
Concen: 2.42 ppm
RT: 17.694 min Scan# 2918
Delta R.T. 0.028 min
Lab File: p08490.D
Acq: 3 Feb 2010 11:53 pm

Tgt Ion:149 Resp: 104667

Ion	Ratio	Lower	Upper
149	100		
167	27.6	0.9	60.9
279	0.0	0.0	37.0



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08490.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.124	5	7	15	rVB5	50209	79283	0.27%	0.026%
2	2.183	15	18	23	rBV	220214	206947	0.71%	0.068%
3	2.220	23	25	32	rVB2	56712	68090	0.24%	0.022%
4	2.274	32	35	45	rBV	191301	213921	0.74%	0.070%
5	2.365	47	52	55	rBV	466219	455863	1.57%	0.149%
6	2.397	55	58	84	rVB	872214	1149575	3.97%	0.376%
7	2.600	94	96	104	rVB3	52591	80667	0.28%	0.026%
8	2.718	111	118	130	rVV2	205252	302440	1.04%	0.099%
9	2.803	130	134	150	rVV	239609	310595	1.07%	0.102%
10	3.023	168	175	187	rBV	193806	331182	1.14%	0.108%
11	3.210	202	210	223	rBV4	87249	206661	0.71%	0.068%
12	3.301	223	227	231	rBV2	53650	62996	0.22%	0.021%
13	3.419	246	249	254	rBV	160533	167974	0.58%	0.055%
14	3.510	261	266	288	rVB	2977469	5160291	17.81%	1.688%
15	3.649	288	292	298	rBV	427487	485465	1.68%	0.159%
16	3.697	298	301	304	rVV	104819	110924	0.38%	0.036%
17	3.734	304	308	313	rVB2	98708	128654	0.44%	0.042%
18	3.804	318	321	339	rVB2	265974	646346	2.23%	0.211%
19	3.953	344	349	358	rVB2	64645	147299	0.51%	0.048%
20	4.039	360	365	382	rVB2	717198	1365921	4.72%	0.447%
21	4.151	382	386	396	rBV	1161003	2360202	8.15%	0.772%
22	4.339	417	421	438	rBV2	447156	889450	3.07%	0.291%
23	4.515	446	454	460	rBV2	64002	156979	0.54%	0.051%
24	4.579	460	466	481	rVB	995755	1769967	6.11%	0.579%
25	4.734	483	495	502	rBV6	115355	440227	1.52%	0.144%
26	4.788	502	505	509	rVB2	79441	76709	0.26%	0.025%
27	4.831	509	513	526	rVB2	191635	387938	1.34%	0.127%
28	4.932	526	532	545	rVB2	911148	2359690	8.15%	0.772%
29	5.066	553	557	565	rVB	1159133	1626236	5.61%	0.532%
30	5.162	565	575	583	rBV	2289119	3493330	12.06%	1.142%
31	5.269	584	595	601	rBV6	253236	573364	1.98%	0.188%
32	5.339	601	608	620	rVB6	325214	976908	3.37%	0.319%
33	5.440	621	627	638	rBV3	891047	1396483	4.82%	0.457%
34	5.521	638	642	647	rBV3	86036	131164	0.45%	0.043%

LSC Area Percent Report

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On    :  3 Feb 2010  11:53 pm
Operator  : garyj
Sample    : t46705-2
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 15   Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON                          Filtering: 5
Sampling  : 1                            Min Area: 1500 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\ep393.m
Title     : SW846 8270C Appendix 9
```

35	5.601	647	657	668	rBV	11161793	26175833	90.36%	8.561%
36	5.686	668	673	681	rVB	1673776	2504558	8.65%	0.819%
37	5.793	683	693	700	rBV2	2341499	6535142	22.56%	2.137%
38	5.927	715	718	721	rBV	67607	80589	0.28%	0.026%
39	6.013	729	734	737	rBV	775832	1041960	3.60%	0.341%
40	6.082	737	747	757	rVB3	2033921	6519108	22.50%	2.132%
41	6.237	769	776	785	rBV	4743312	8504614	29.36%	2.781%
42	6.328	788	793	802	rVB3	618631	1257077	4.34%	0.411%
43	6.430	803	812	814	rBV3	704475	1351338	4.66%	0.442%
44	6.467	814	819	827	rVV2	3067592	5816915	20.08%	1.902%
45	6.537	828	832	839	rVB3	468034	925213	3.19%	0.303%
46	6.601	840	844	847	rBV	172181	214629	0.74%	0.070%
47	6.655	847	854	866	rBV6	1128595	2615725	9.03%	0.855%
48	6.778	872	877	882	rBV	300771	475410	1.64%	0.155%
49	6.895	884	899	907	rVV3	393650	1530379	5.28%	0.501%
50	6.965	908	912	916	rBV3	222624	302896	1.05%	0.099%
51	7.050	917	928	932	rBV	1748113	3073373	10.61%	1.005%
52	7.200	950	956	959	rBV3	1032612	1712213	5.91%	0.560%
53	7.248	959	965	983	rVB2	3766829	8882082	30.66%	2.905%
54	7.371	984	988	995	rBV3	118344	192278	0.66%	0.063%
55	7.473	996	1007	1014	rBV3	4304577	9723434	33.57%	3.180%
56	7.783	1060	1065	1069	rVB2	270339	399867	1.38%	0.131%
57	7.879	1069	1083	1088	rBV2	9298974	25366740	87.57%	8.296%
58	7.960	1088	1098	1112	rVB2	5419622	15062739	52.00%	4.926%
59	8.061	1113	1117	1120	rBV2	213175	323285	1.12%	0.106%
60	8.232	1144	1149	1152	rBV	239043	460482	1.59%	0.151%
61	8.280	1153	1158	1163	rVV	1020458	1805495	6.23%	0.590%
62	8.382	1164	1177	1184	rVV3	4249679	12547687	43.32%	4.104%
63	8.436	1184	1187	1196	rVB2	485791	870779	3.01%	0.285%
64	8.575	1205	1213	1218	rBV	927095	2119428	7.32%	0.693%
65	8.617	1218	1221	1228	rVB	584868	1038271	3.58%	0.340%
66	8.703	1228	1237	1242	rBV	2516355	4959909	17.12%	1.622%
67	9.035	1289	1299	1304	rBV	3770884	7326415	25.29%	2.396%
68	9.088	1304	1309	1313	rBV	2327989	4282671	14.78%	1.401%
69	9.200	1313	1330	1337	rBV3	6733594	28967600	100.00%	9.474%
70	9.559	1386	1397	1400	rBV	945007	2095050	7.23%	0.685%
71	9.596	1400	1404	1415	rVB	1577894	2669620	9.22%	0.873%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	9.848	1444	1451	1469	rBV	1496317	5005416	17.28%	1.637%
73	10.067	1470	1492	1507	rVV2	5633498	25004737	86.32%	8.178%
74	10.179	1508	1513	1524	rVV5	185482	545571	1.88%	0.178%
75	10.297	1528	1535	1548	rVB2	570596	1167573	4.03%	0.382%
76	10.580	1579	1588	1602	rVB	2193275	4894453	16.90%	1.601%
77	10.693	1605	1609	1614	rBV2	90339	165567	0.57%	0.054%
78	10.885	1634	1645	1661	rBV	2031464	5067964	17.50%	1.657%
79	11.795	1811	1815	1824	rVB2	92125	157197	0.54%	0.051%
80	11.950	1834	1844	1853	rVB2	2551350	5479873	18.92%	1.792%
81	12.115	1859	1875	1886	rVB	3586999	9333099	32.22%	3.052%
82	12.222	1890	1895	1909	rVB	239324	555521	1.92%	0.182%
83	12.351	1913	1919	1930	rVB4	89938	259439	0.90%	0.085%
84	13.287	2089	2094	2107	rVB5	179611	415175	1.43%	0.136%
85	13.795	2185	2189	2197	rVB4	94223	175047	0.60%	0.057%
86	13.913	2206	2211	2225	rVV9	109331	325609	1.12%	0.106%
87	14.025	2227	2232	2242	rVB7	157267	379235	1.31%	0.124%
88	14.480	2309	2317	2328	rVB	883479	1921265	6.63%	0.628%
89	14.934	2397	2402	2416	rVB6	126846	386483	1.33%	0.126%
90	15.351	2468	2480	2489	rBV2	2692830	6194071	21.38%	2.026%
91	15.432	2490	2495	2502	rVV5	194103	384529	1.33%	0.126%
92	15.512	2506	2510	2518	rVB2	149943	294802	1.02%	0.096%
93	15.956	2586	2593	2619	rVB4	339430	1041585	3.60%	0.341%
94	16.287	2648	2655	2666	rVB2	401896	857432	2.96%	0.280%
95	16.763	2737	2744	2763	rVB2	403282	1133719	3.91%	0.371%
96	17.534	2877	2888	2897	rBV	1774140	4206198	14.52%	1.376%
97	17.614	2900	2903	2911	rVV6	92926	168964	0.58%	0.055%
98	17.694	2912	2918	2929	rVB	212957	369569	1.28%	0.121%
99	18.197	3006	3012	3021	rVB6	65924	134067	0.46%	0.044%
100	20.406	3414	3425	3442	rBV	608096	1693270	5.85%	0.554%

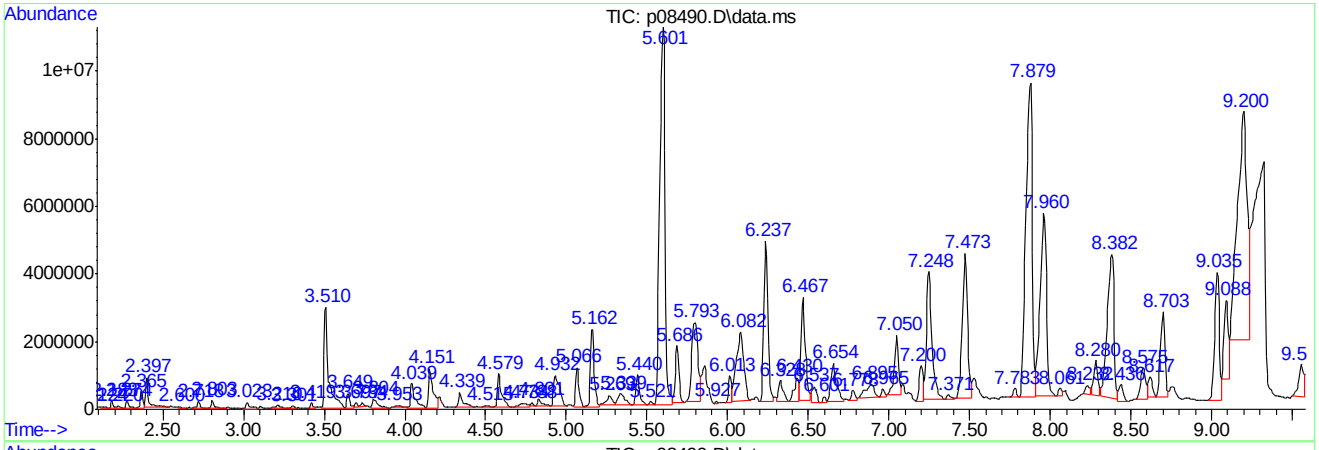
Sum of corrected areas: 305767975

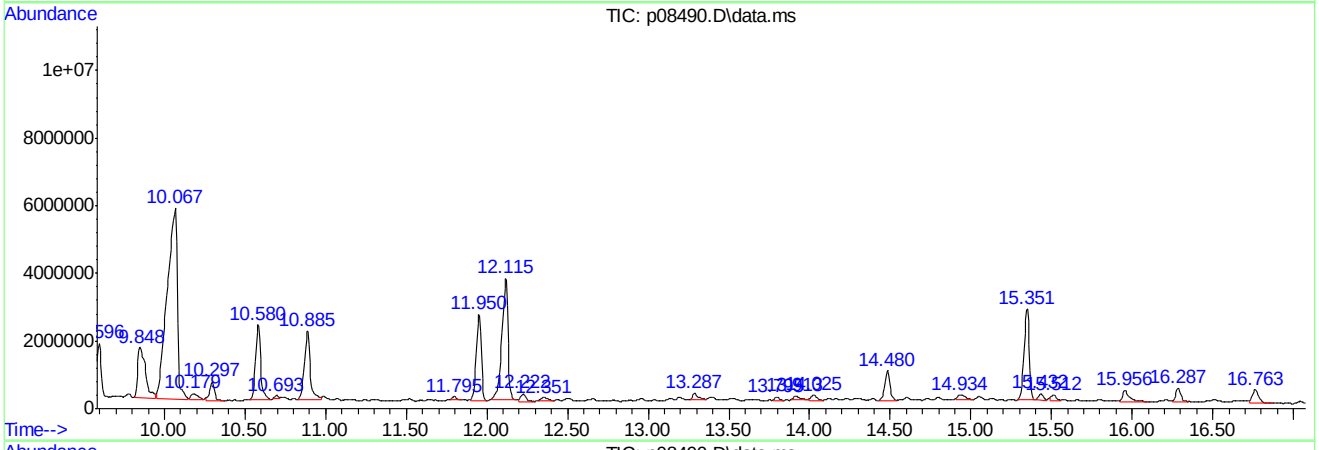
LSC Report - Integrated Chromatogram

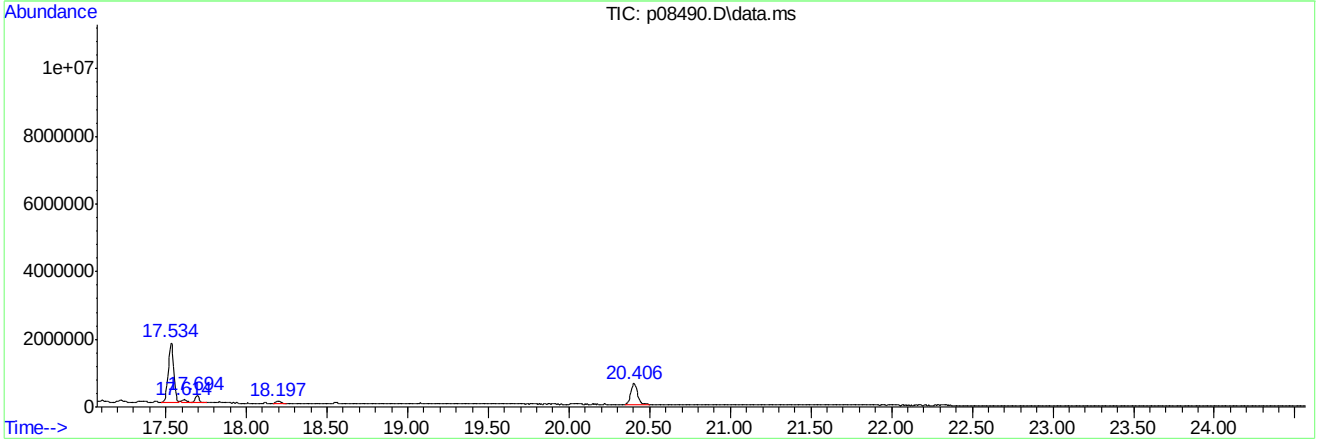
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

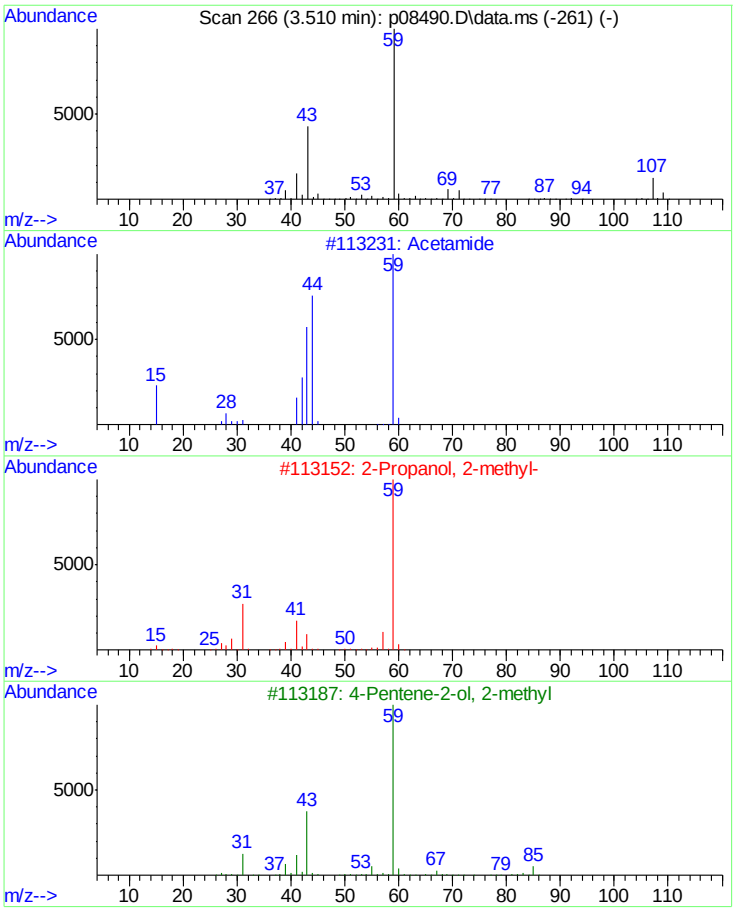
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

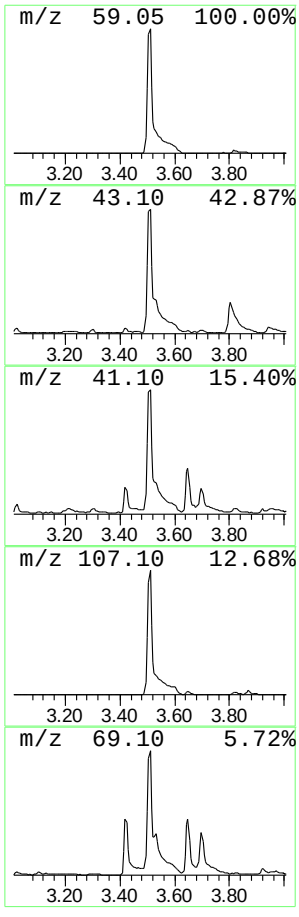
****

Peak Number 1 Acetamide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.510	59.09 ppm	5160290	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide	59	C2H5NO	000060-35-5	42
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	40
3	4-Pentene-2-ol, 2-methyl	100	C6H12O	000624-97-5	36
4	2-Pentanol, 2-methyl-	102	C6H14O	000590-36-3	36
5	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	36





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

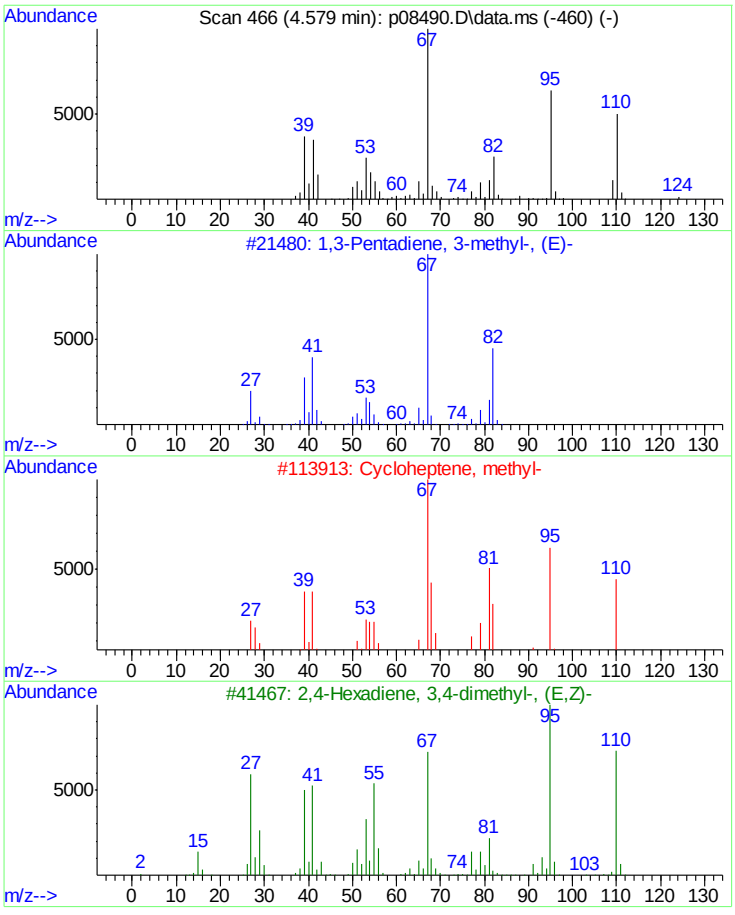
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

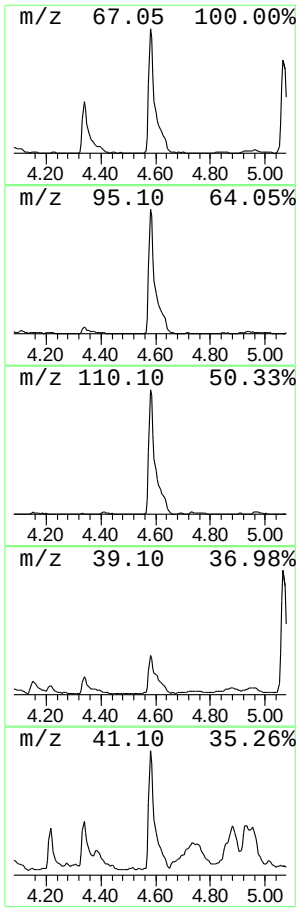
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1,3-Pentadiene, 3-methyl-, ... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.579	20.27 ppm	1769970	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Pentadiene, 3-methyl-, (E)-	82	C6H10	002787-43-1	87
2	Cycloheptene, methyl-	110	C8H14	055308-20-8	87
3	2,4-Hexadiene, 3,4-dimethyl-, (E...	110	C8H14	002417-88-1	64
4	2,4-Hexadiene, (E,E)-	82	C6H10	005194-51-4	55
5	1,3-Pentadiene, 3-methyl-, (Z)-	82	C6H10	002787-45-3	55





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

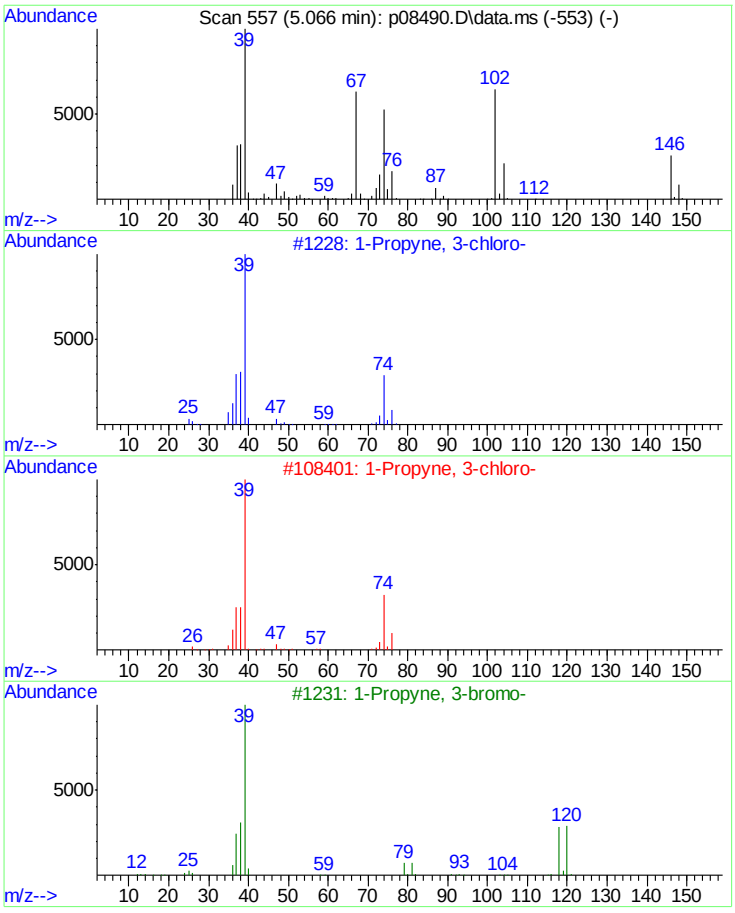
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

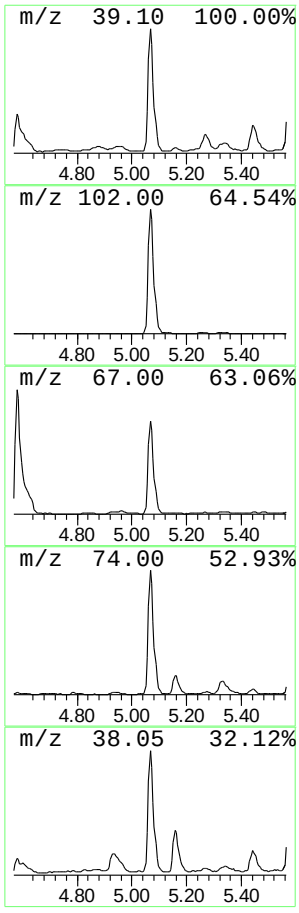
****

Peak Number 3 1-Propyne, 3-chloro- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.066	18.62 ppm	1626240	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propyne, 3-chloro-	74	C3H3Cl	000624-65-7	81
2	1-Propyne, 3-chloro-	74	C3H3Cl	000624-65-7	52
3	1-Propyne, 3-bromo-	118	C3H3Br	000106-96-7	36
4	1-Propyne, 3-bromo-	118	C3H3Br	000106-96-7	36
5	1-Propyne, 3-bromo-	118	C3H3Br	000106-96-7	36





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

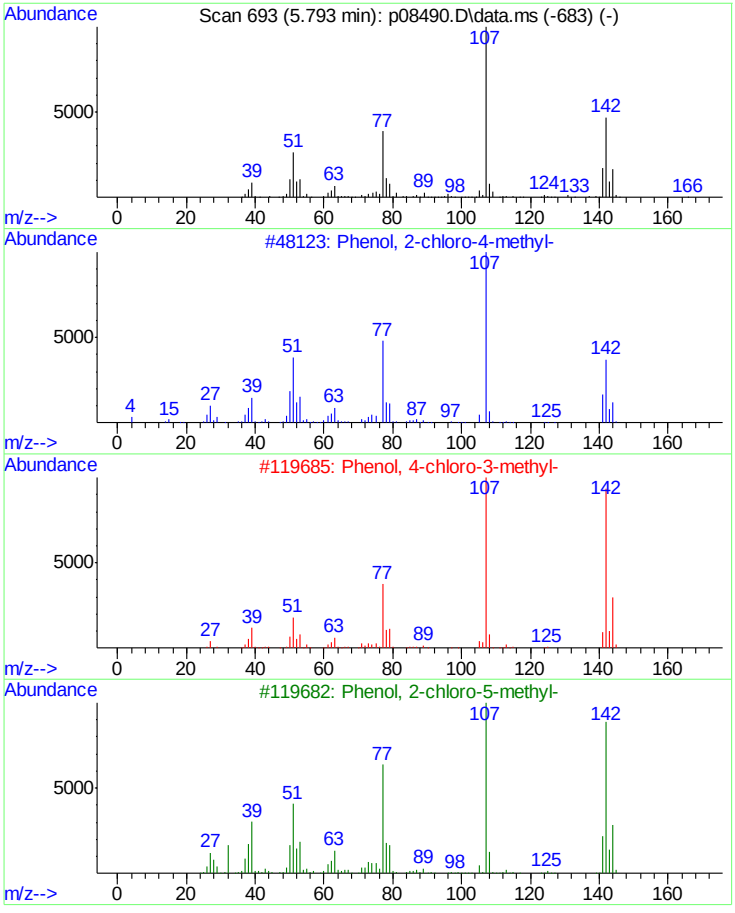
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

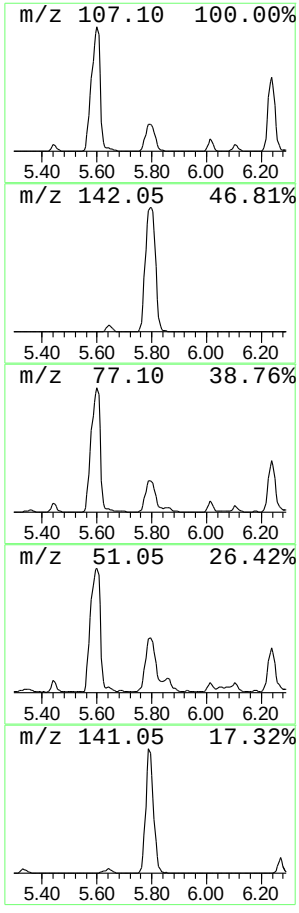
****

Peak Number 4 Phenol, 2-chloro-4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.793	74.83 ppm	6535140	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-chloro-4-methyl-	142	C7H7ClO	006640-27-3	96
2	Phenol, 4-chloro-3-methyl-	142	C7H7ClO	000059-50-7	91
3	Phenol, 2-chloro-5-methyl-	142	C7H7ClO	000615-74-7	90
4	Phenol, 2-chloro-6-methyl-	142	C7H7ClO	000087-64-9	90
5	Phenol, 2-chloro-6-methyl-	142	C7H7ClO	000087-64-9	87





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

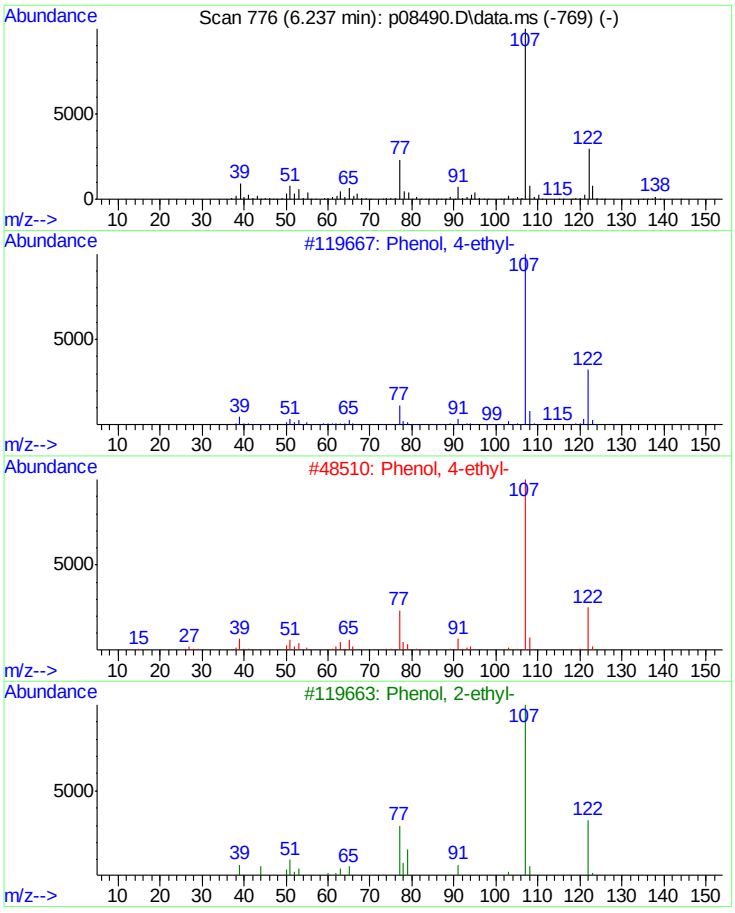
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

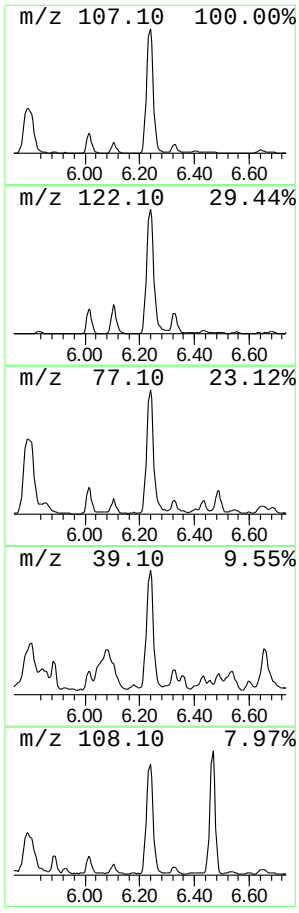
****

Peak Number 5 Phenol, 4-ethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.237	58.48 ppm	8504610	Naphthalene-d8	6.467

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-ethyl-	122	C8H10O	000123-07-9	90
2	Phenol, 4-ethyl-	122	C8H10O	000123-07-9	87
3	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	87
4	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	86
5	Phenol, 2-ethyl-	122	C8H10O	000090-00-6	86





Library Search Compound Report

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Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

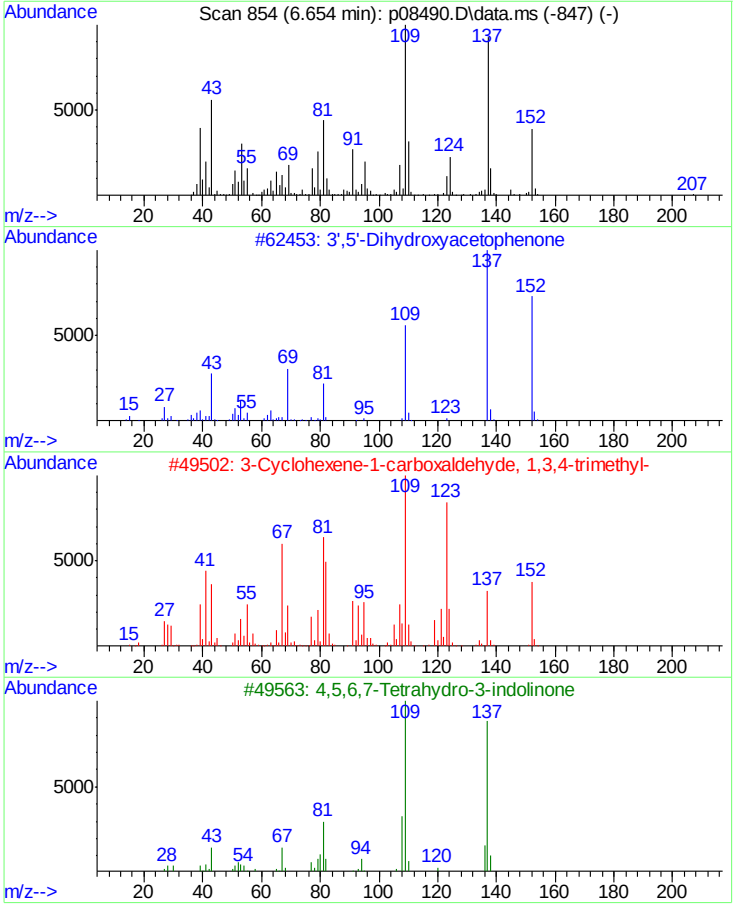
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

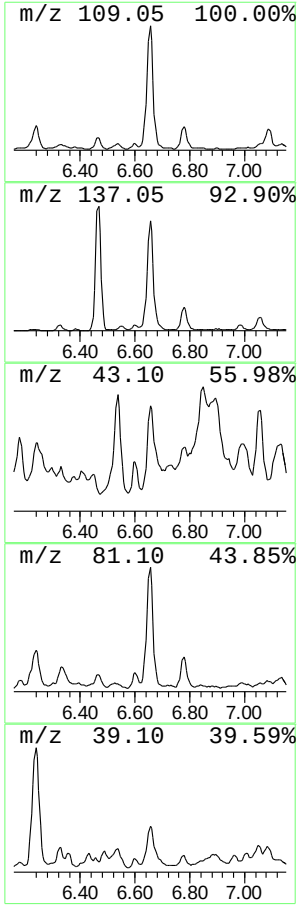
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 3',5'-Dihydroxyacetophenone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.654	17.99 ppm	2615730	Naphthalene-d8	6.467

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3',5'-Dihydroxyacetophenone	152	C8H8O3	051863-60-6	53
2	3-Cyclohexene-1-carboxaldehyde, ...	152	C10H16O	040702-26-9	52
3	4,5,6,7-Tetrahydro-3-indolinone	137	C8H11NO	058074-25-2	46
4	5-Ethoxy-2-methyl-pyridine	137	C8H11NO	055270-48-9	43
5	Pyrazine, 2-methoxy-3-(1-methyle...	152	C8H12N2O	025773-40-4	43





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ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

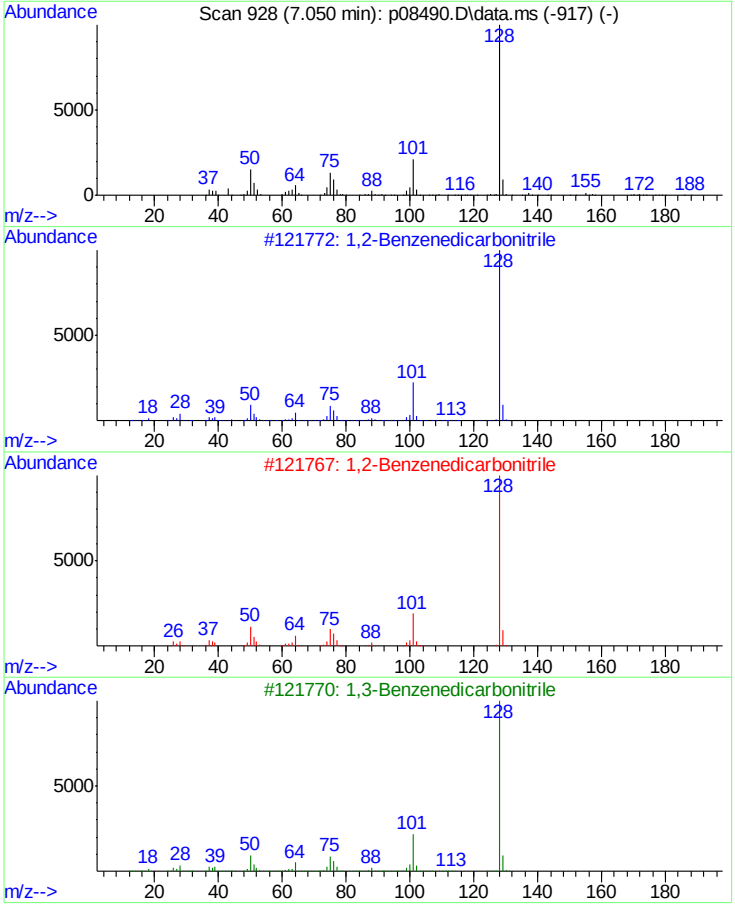
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

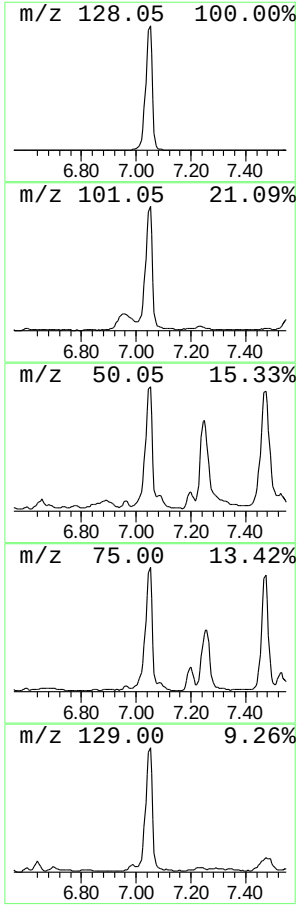
****

Peak Number 7 1,2-Benzenedicarbonitrile Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.050	21.13 ppm	3073370	Naphthalene-d8	6.467

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarbonitrile	128	C8H4N2	000091-15-6	97
2	1,2-Benzenedicarbonitrile	128	C8H4N2	000091-15-6	96
3	1,3-Benzenedicarbonitrile	128	C8H4N2	000626-17-5	95
4	1,4-Benzenedicarbonitrile	128	C8H4N2	000623-26-7	94
5	1,4-Benzenedicarbonitrile	128	C8H4N2	000623-26-7	94





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ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

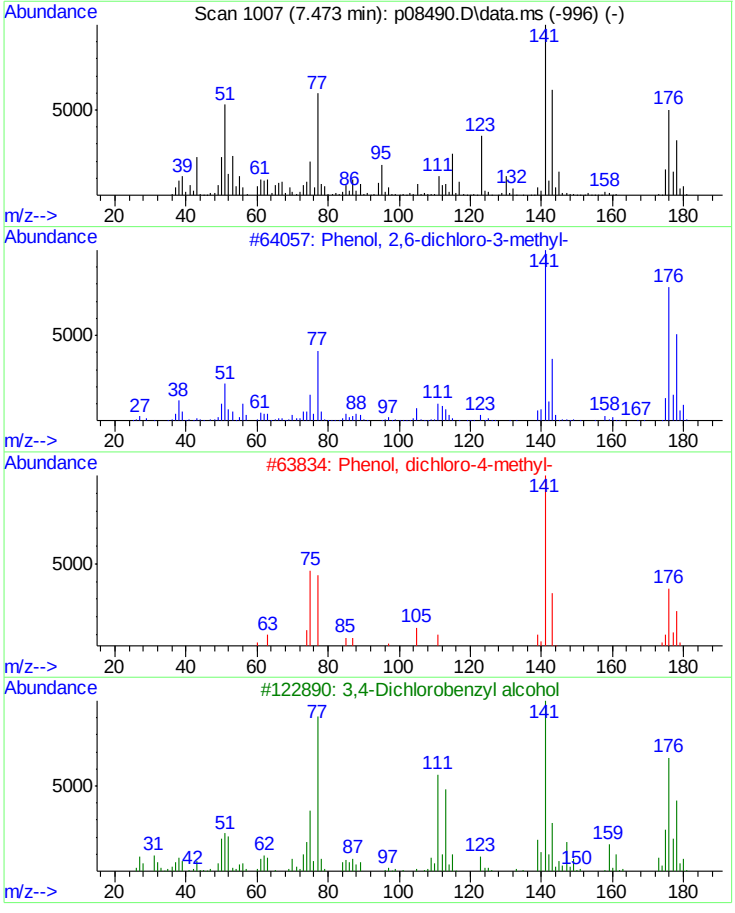
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

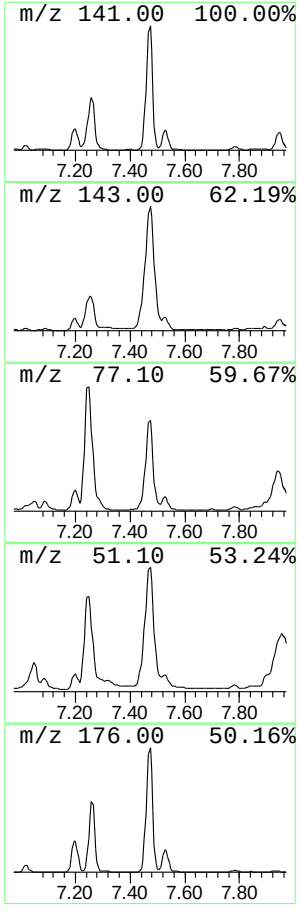
****

Peak Number 8 Phenol, 2,6-dichloro-3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.473	66.86 ppm	9723430	Naphthalene-d8	6.467

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-dichloro-3-methyl-	176	C7H6Cl2O	013481-70-4	76
2	Phenol, dichloro-4-methyl-	176	C7H6Cl2O	062609-00-1	72
3	3,4-Dichlorobenzyl alcohol	176	C7H6Cl2O	001805-32-9	55
4	Benzenemethanol, 2,4-dichloro-	176	C7H6Cl2O	001777-82-8	46
5	Phenol, 2,4-dichloro-6-methyl-	176	C7H6Cl2O	001570-65-6	46





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Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

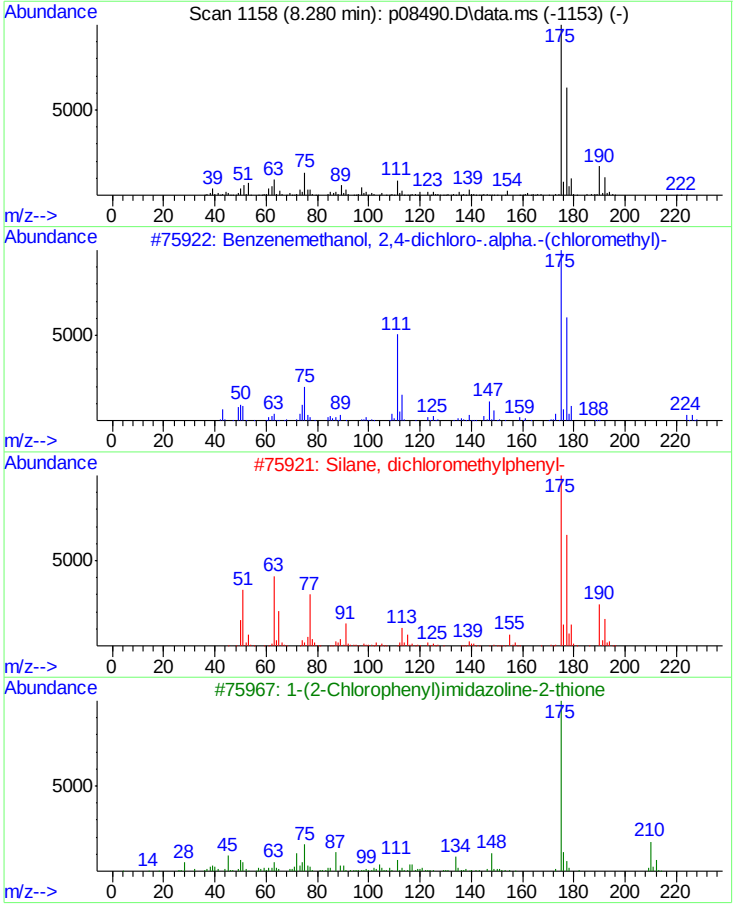
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

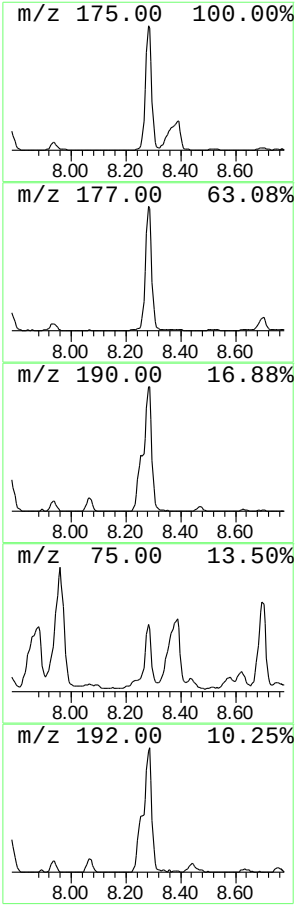
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzenemethanol, 2,4-dichlo... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.280	16.86 ppm	1805500	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenemethanol, 2,4-dichloro-.a...	224	C8H7Cl3O	013692-14-3	56
2	Silane, dichloromethylphenyl-	190	C7H8Cl2Si	000149-74-6	53
3	1-(2-Chlorophenyl)imidazoline-2-...	210	C9H7ClN2S	051581-47-6	25
4	2H-1-Benzopyran, 7-methoxy-2,2-d...	190	C12H14O2	017598-02-6	25
5	Benzene, 1,5-dichloro-2-methoxy-...	190	C8H8Cl2O	013334-73-1	14





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Sample : t46705-2
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ALS Vial : 15 Sample Multiplier: 1

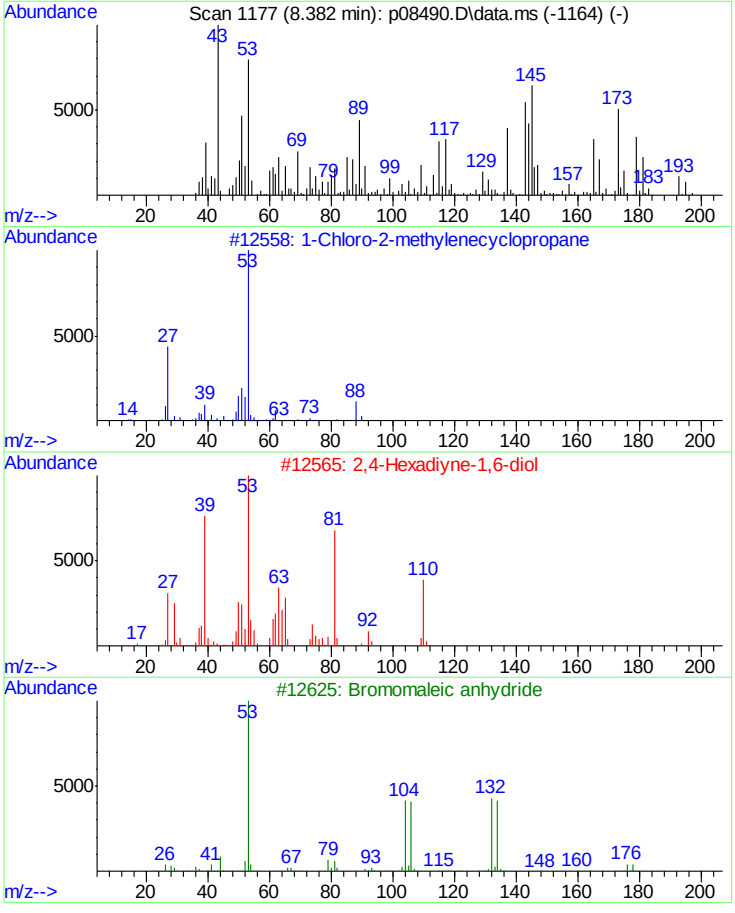
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

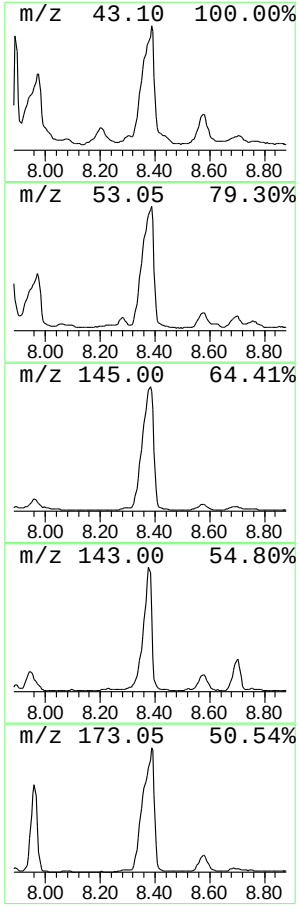
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 1-Chloro-2-methylenecyclopr... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.382	117.19 ppm	12547700	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Chloro-2-methylenecyclopropane	88	C4H5Cl	070302-78-2	46
2	2,4-Hexadiyne-1,6-diol	110	C6H6O2	003031-68-3	43
3	Bromomaleic anhydride	176	C4HBrO3	005926-51-2	38
4	1-Hexyn-3-one	96	C6H8O	000689-00-9	32
5	Phenol, 2,5-dichloro-4-methoxy-	192	C7H6Cl2O2	018113-14-9	32





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ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

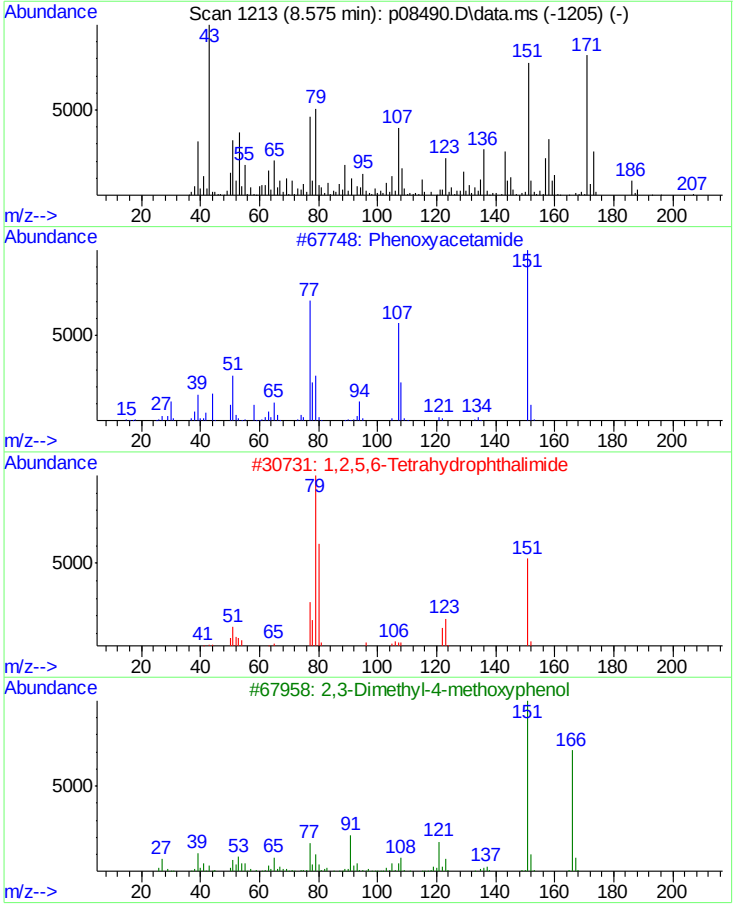
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

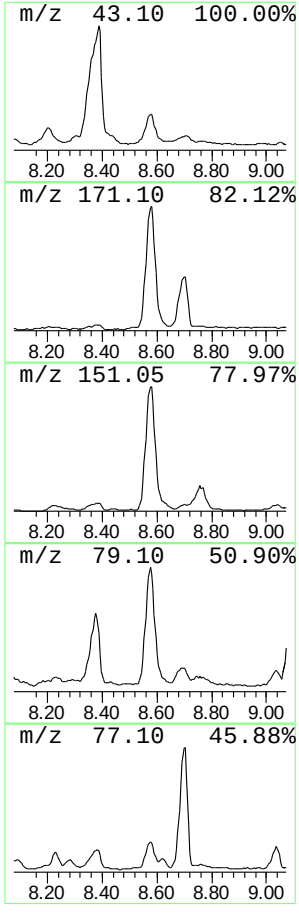
****

Peak Number 11 Phenoxyacetamide Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.575	19.80 ppm	2119430	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenoxyacetamide	151	C8H9NO2	000621-88-5	25
2	1,2,5,6-Tetrahydrophthalimide	151	C8H9NO2	000085-40-5	22
3	2,3-Dimethyl-4-methoxyphenol	152	C9H12O2	035355-33-0	14
4	5-Nitro-m-xylene	151	C8H9NO2	000099-12-7	14
5	Benzene, 1-methoxy-4-(methylsulf...	186	C8H10O3S	003517-90-6	12





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ALS Vial : 15 Sample Multiplier: 1

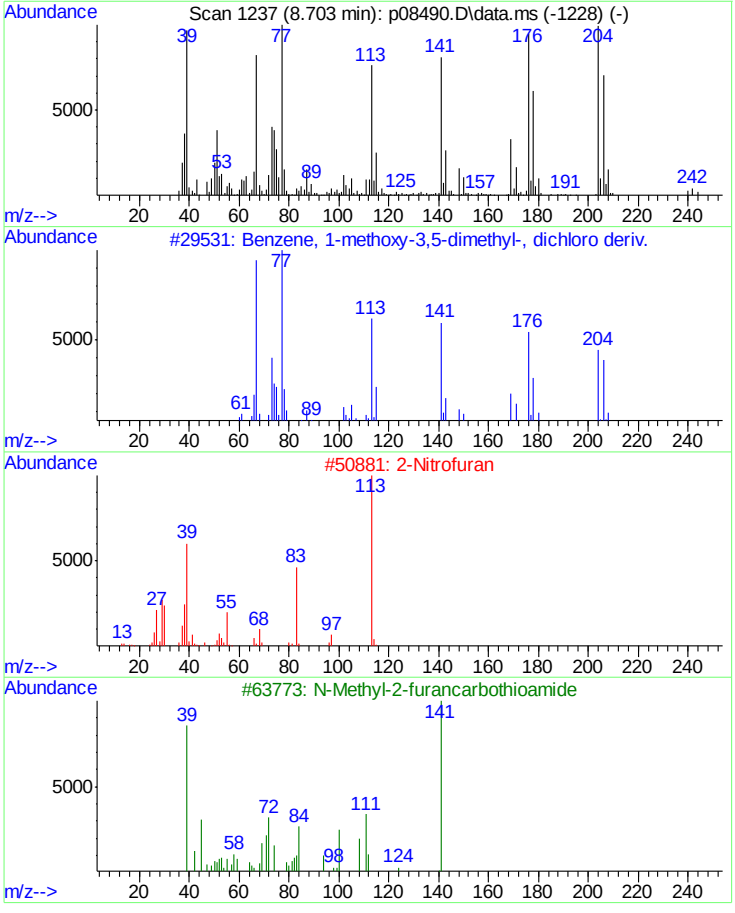
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

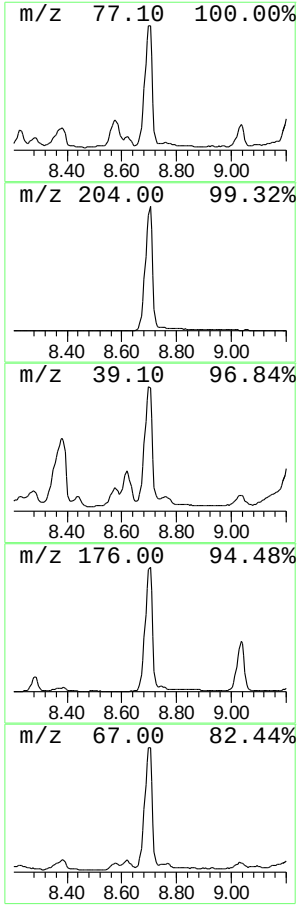
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Benzene, 1-methoxy-3,5-dime... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.703	46.33 ppm	4959910	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methoxy-3,5-dimethyl-...	204	C9H10Cl2O	074313-13-6	91
2	2-Nitrofuran	113	C4H3NO3	000609-39-2	38
3	N-Methyl-2-furancarbothioamide	141	C6H7NOS	1000146-35-0	35
4	2-Butynoic acid	84	C4H4O2	000590-93-2	32
5	3,4-Dichlorobicyclo[3.2.1]oct-2-ene	176	C8H10Cl2	057615-42-6	30





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ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

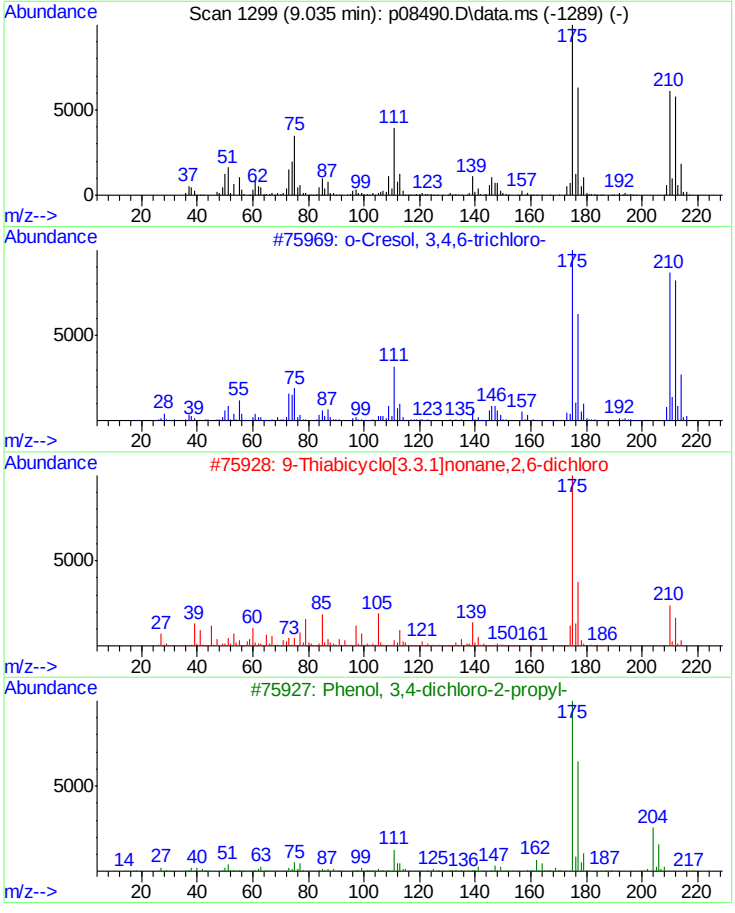
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

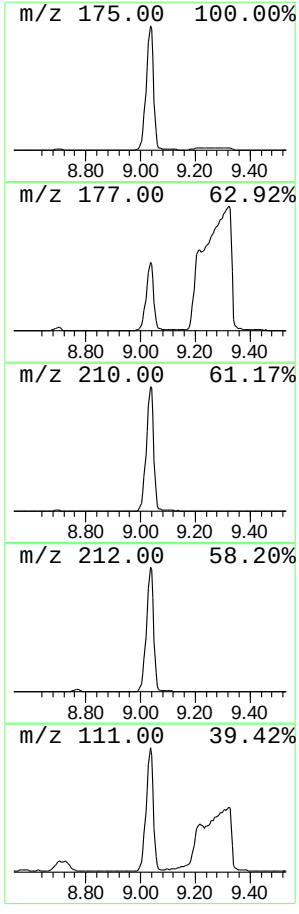
****

Peak Number 13 o-Cresol, 3,4,6-trichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.035	68.43 ppm	7326420	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cresol, 3,4,6-trichloro-	210	C7H5Cl3O	000643-14-1	99
2	9-Thiabicyclo[3.3.1]nonane,2,6-d...	210	C8H12Cl2S	1000196-76-6	47
3	Phenol, 3,4-dichloro-2-propyl-	204	C9H10Cl2O	054932-67-1	38
4	Benzenemethanol, 2,4-dichloro-.a...	224	C8H7Cl3O	013692-14-3	38
5	1-Ethyl-2-bromo-1,3,4-triazole	175	C4H6BrN3	1000147-07-2	35





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ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

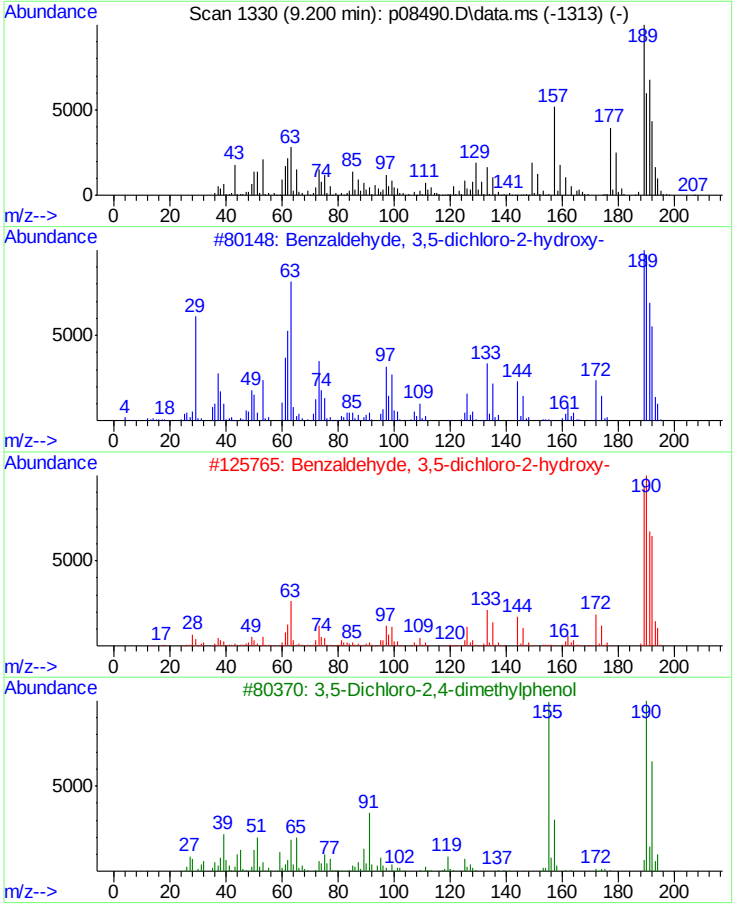
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

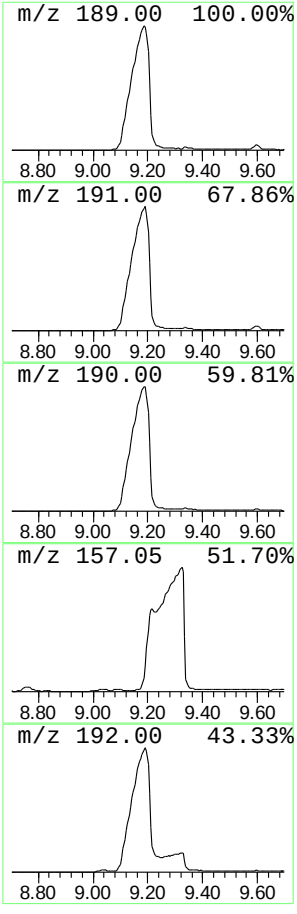
****

Peak Number 14 Benzaldehyde, 3,5-dichloro-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.200	270.56 ppm	28967600	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	78
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	42
3	3,5-Dichloro-2,4-dimethylphenol	190	C8H8Cl2O	1000250-17-3	15
4	9H-Fluorene-2-carbonitrile	191	C14H9N	002523-48-0	14
5	2,4,6-Trifluorophenyl isothiocya...	189	C7H2F3NS	1000134-62-8	10





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ALS Vial : 15 Sample Multiplier: 1

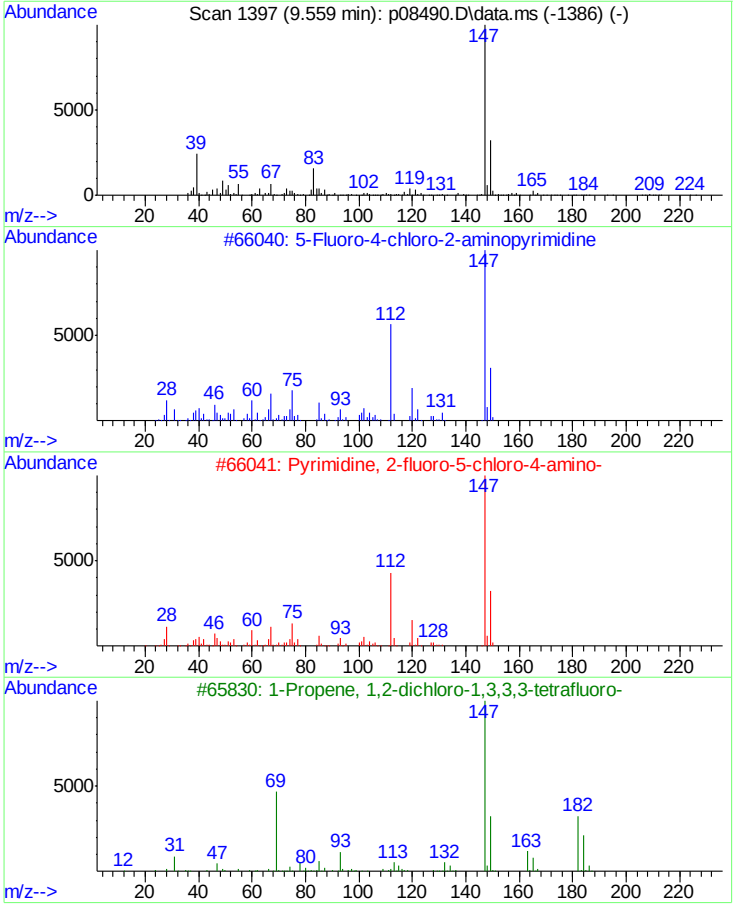
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

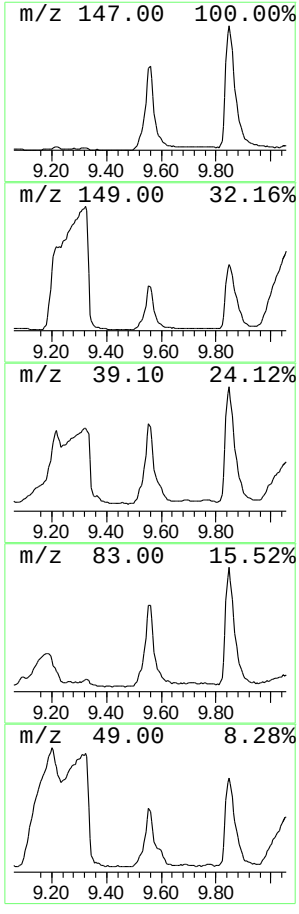
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 5-Fluoro-4-chloro-2-aminopy... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.559	19.57 ppm	2095050	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-4-chloro-2-aminopyrimidine	147	C4H3ClFN3	001683-75-6	59
2	Pyrimidine, 2-fluoro-5-chloro-4-...	147	C4H3ClFN3	000155-10-2	45
3	1-Propene, 1,2-dichloro-1,3,3,3-...	182	C3Cl2F4	000431-53-8	9
4	Pyridine, 3,5-dichloro-	147	C5H3Cl2N	002457-47-8	9
5	Pyridine, 3,5-dichloro-	147	C5H3Cl2N	002457-47-8	9





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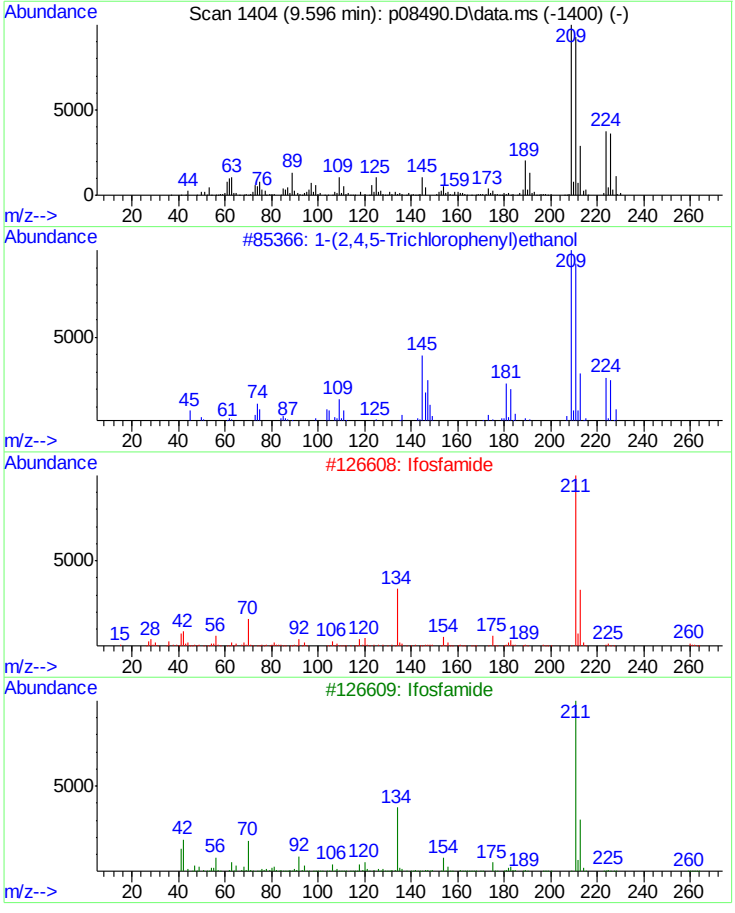
Quant Title : SW846 8270C Appendix 9

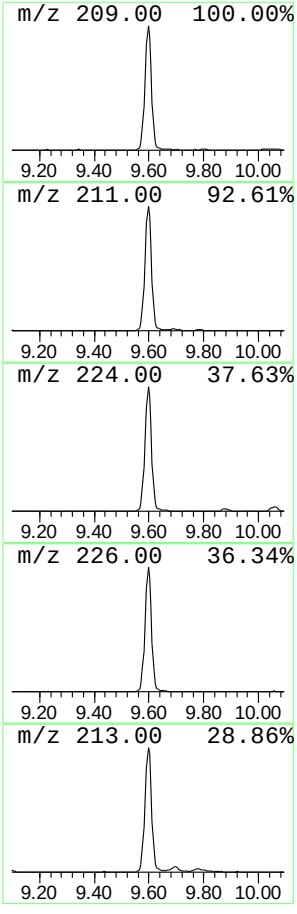
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 1-(2,4,5-Trichlorophenyl)et... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.596	24.93 ppm	2669620	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2,4,5-Trichlorophenyl)ethanol	224	C8H7Cl3O	014299-54-8	95
2	Ifosfamide	260	C7H15Cl2N2O2P	003778-73-2	12
3	Ifosfamide	260	C7H15Cl2N2O2P	003778-73-2	12
4	1,1'-Biphenyl, (1,1-dimethyletho...	226	C16H18O	072101-19-0	12
5	Phosphine, dimethyl(pentafluorop...	228	C8H6F5P	005075-61-6	11





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

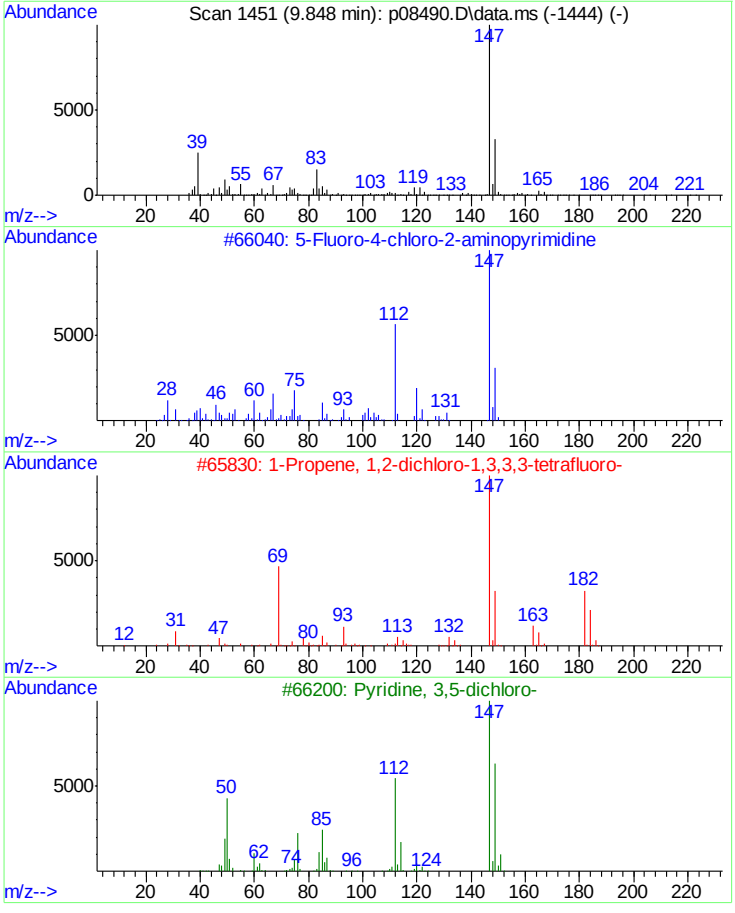
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

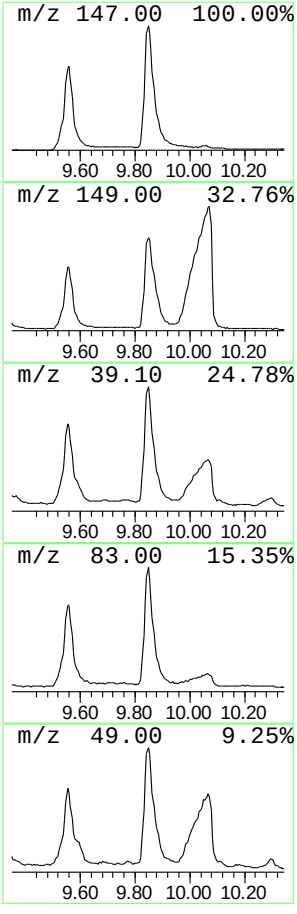
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 5-Fluoro-4-chloro-2-aminopy... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.848	46.75 ppm	5005420	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-4-chloro-2-aminopyrimidine	147	C4H3ClFN3	001683-75-6	45
2	1-Propene, 1,2-dichloro-1,3,3,3-...	182	C3Cl2F4	000431-53-8	39
3	Pyridine, 3,5-dichloro-	147	C5H3Cl2N	002457-47-8	33
4	4-Bromomethyl-5H-furan-2-one	176	C5H5BrO2	061934-55-2	10
5	Benzoic acid, 4-propyl-, 4-cyano...	265	C17H15NO2	056131-49-8	10





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

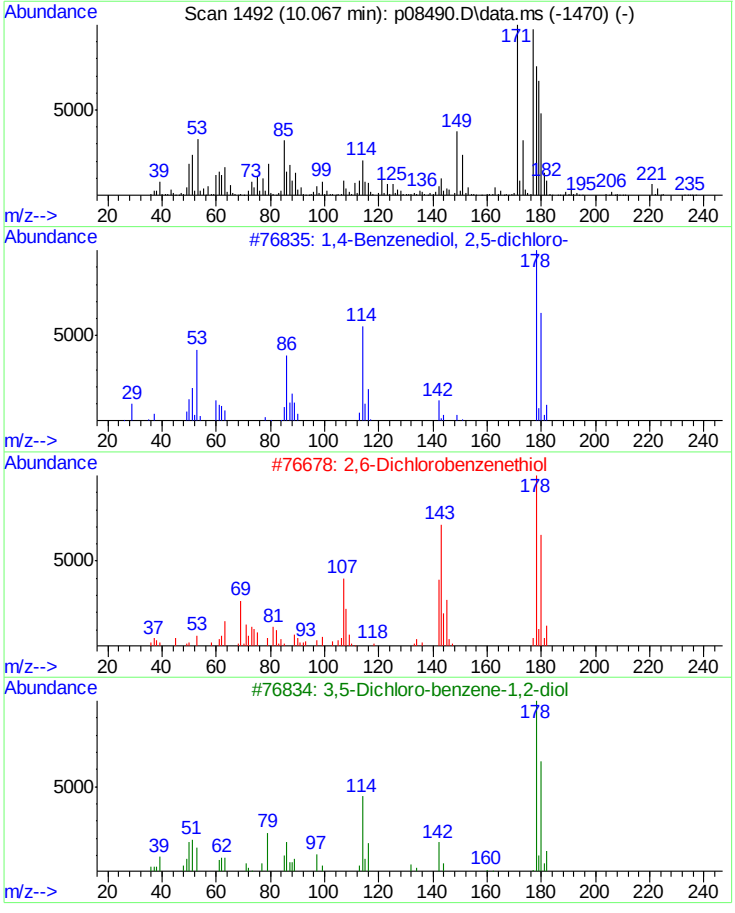
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

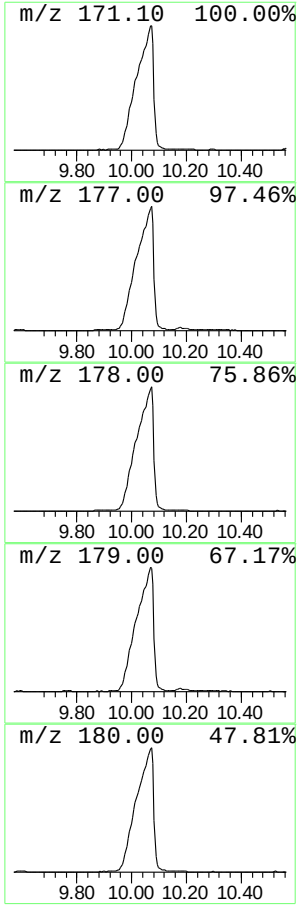
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 1,4-Benzenediol, 2,5-dichloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.067	233.54 ppm	25004700	Acenaphthene-d10	9.088

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenediol, 2,5-dichloro-	178	C6H4Cl2O2	000824-69-1	43
2	2,6-Dichlorobenzenethiol	178	C6H4Cl2S	024966-39-0	25
3	3,5-Dichloro-benzene-1,2-diol	178	C6H4Cl2O2	1000147-13-6	20
4	3,6-Dichloro-benzene-1,2-diol	178	C6H4Cl2O2	1000147-13-7	20
5	1,3-Benzenediol, 4,6-dichloro-	178	C6H4Cl2O2	000137-19-9	18





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

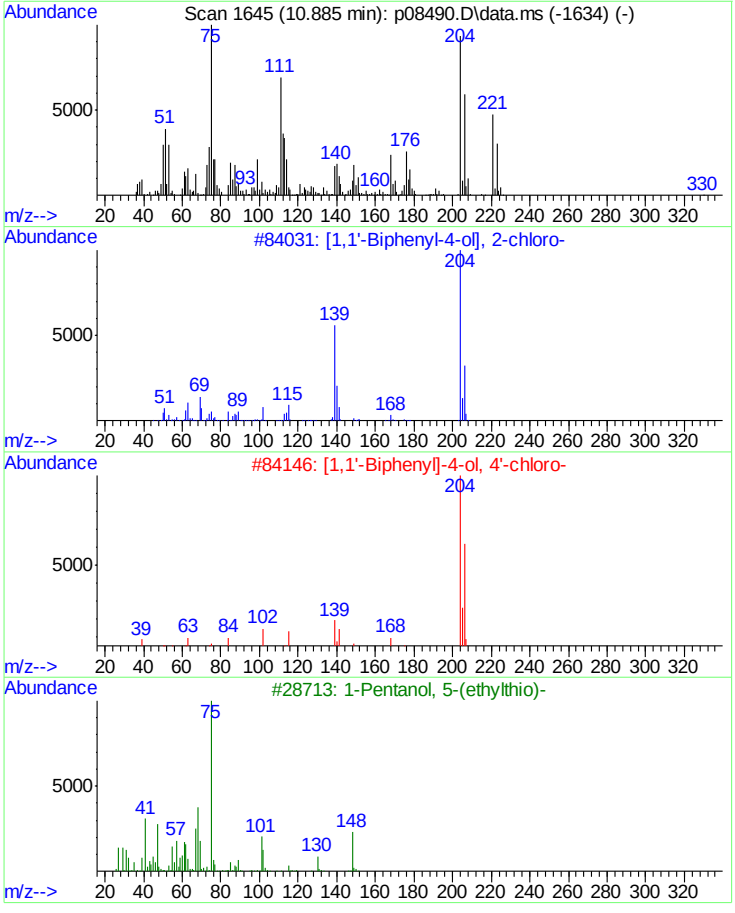
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

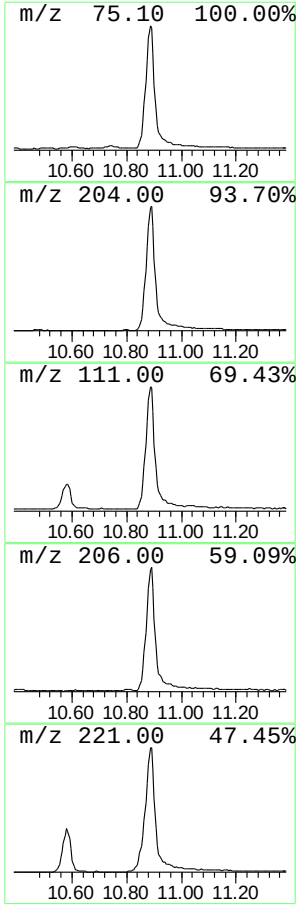
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 [1,1'-Biphenyl-4-ol], 2-chl... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.885	36.99 ppm	5067960	Phenanthrene-d10	11.950

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl-4-ol], 2-chloro-	204	C12H9ClO	023719-22-4	22
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	18
3	1-Pentanol, 5-(ethylthio)-	148	C7H16OS	018721-63-6	11
4	t-Butyldimethyl(undec-10-ynyloxy...	282	C17H34OSi	132260-32-3	10
5	(4'S,4'Ar,5'R,8'as)-spiro-[1,3-d...	298	C17H30S2	055898-00-5	10





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

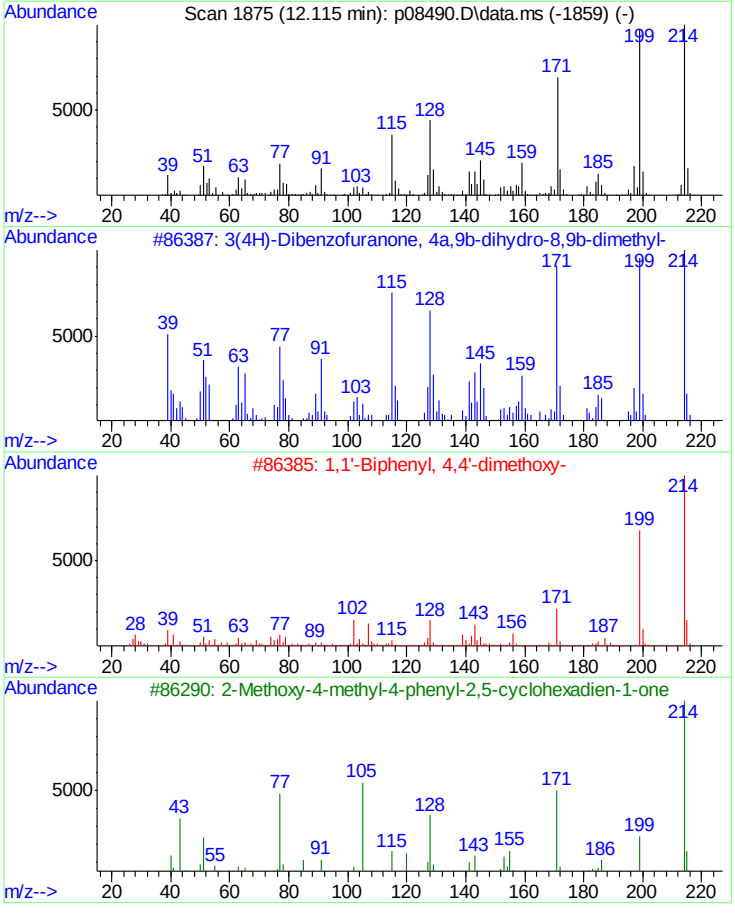
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

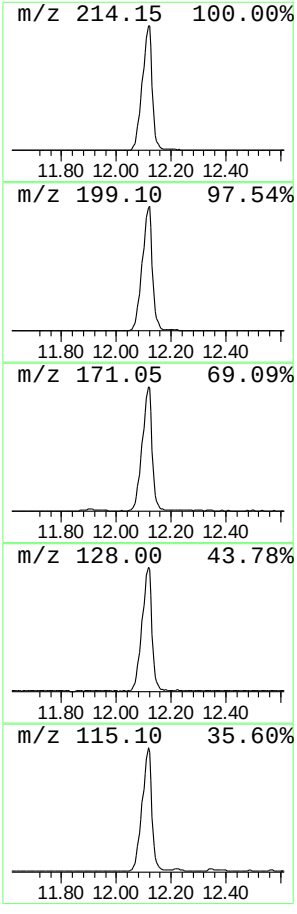
****

Peak Number 20 3(4H)-Dibenzofuranone, 4a,9... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.116	68.13 ppm	9333100	Phenanthrene-d10	11.950

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3(4H)-Dibenzofuranone, 4a,9b-dih...	214	C14H14O2	000546-24-7	93
2	1,1'-Biphenyl, 4,4'-dimethoxy-	214	C14H14O2	002132-80-1	58
3	2-Methoxy-4-methyl-4-phenyl-2,5-...	214	C14H14O2	113660-63-2	58
4	1,1'-Biphenyl, 3,4'-dimethoxy-	214	C14H14O2	1000126-34-7	58
5	1H-Indene-1,3(2H)-dione, 2-(2-me...	214	C14H14O2	074779-71-8	53





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08490.D
Acq On : 3 Feb 2010 11:53 pm
Operator : garyj
Sample : t46705-2
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Acetamide	3.510	59.1	ppm	5160290	1	5.162	3493330	40.0
1,3-Pentadiene,...	4.579	20.3	ppm	1769970	1	5.162	3493330	40.0
1-Propyne, 3-ch...	5.066	18.6	ppm	1626240	1	5.162	3493330	40.0
Phenol, 2-chlor...	5.793	74.8	ppm	6535140	1	5.162	3493330	40.0
Phenol, 4-ethyl-	6.237	58.5	ppm	8504610	2	6.467	5816920	40.0
3',5'-Dihydroxy...	6.654	18.0	ppm	2615730	2	6.467	5816920	40.0
1,2-Benzenedica...	7.050	21.1	ppm	3073370	2	6.467	5816920	40.0
Phenol, 2,6-dic...	7.473	66.9	ppm	9723430	2	6.467	5816920	40.0
Benzenemethanol...	8.280	16.9	ppm	1805500	3	9.088	4282670	40.0
1-Chloro-2-meth...	8.382	117.2	ppm	12547700	3	9.088	4282670	40.0
Phenoxyacetamide	8.575	19.8	ppm	2119430	3	9.088	4282670	40.0
Benzene, 1-meth...	8.703	46.3	ppm	4959910	3	9.088	4282670	40.0
o-Cresol, 3,4,6...	9.035	68.4	ppm	7326420	3	9.088	4282670	40.0
Benzaldehyde, 3...	9.200	270.6	ppm	28967600	3	9.088	4282670	40.0
5-Fluoro-4-chlo...	9.559	19.6	ppm	2095050	3	9.088	4282670	40.0
1-(2,4,5-Trichl...	9.596	24.9	ppm	2669620	3	9.088	4282670	40.0
5-Fluoro-4-chlo...	9.848	46.8	ppm	5005420	3	9.088	4282670	40.0
1,4-Benzenediol...	10.067	233.5	ppm	25004700	3	9.088	4282670	40.0
[1,1'-Biphenyl-...	10.885	37.0	ppm	5067960	4	11.950	5479870	40.0
3(4H)-Dibenzofu...	12.116	68.1	ppm	9333100	4	11.950	5479870	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08493.D
Acq On : 4 Feb 2010 1:26 am
Operator : garyj
Sample : t46705-2, x10
Misc : op13976,Ep403,1000,,,1,10,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 04 14:00:05 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	530154	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1764764	40.00	ppm	0.00
46) Acenaphthene-d10	9.078	164	1095940	40.00	ppm	0.00
70) Phenanthrene-d10	11.939	188	1677454	40.00	ppm	0.00
85) Chrysene-d12	17.534	240	1290766	40.00	ppm	0.00
94) Perylene-d12	20.406	264	762215	40.00	ppm	0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.157	112	66808	3.41	ppm	0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 3.41%#			
12) Phenol-d5	4.943	99	65184	2.85	ppm	0.04
Spiked Amount 100.000	Range 10 - 53		Recovery = 2.85%#			
26) Nitrobenzene-d5	5.686	82	74129	3.34	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 6.68%#			
50) 2-Fluorobiphenyl	7.944	172	157798	4.05	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 8.10%#			
75) 2,4,6-Tribromophenol	10.559	330	37673	8.66	ppm	-0.04
Spiked Amount 100.000	Range 32 - 128		Recovery = 8.66%#			
88) Terphenyl-d14	15.330	244	155841	4.68	ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 9.36%#			
Target Compounds						Qvalue
20) 2-Methylphenol	5.446	108	19138m	0.89	ppm	
24) 3&4-Methylphenol	5.580	108	745718	38.42	ppm #	54
42) 4-Chloro-3-methylphenol	7.238	107	100050	6.38	ppm	89
48) 2,4,6-Trichlorophenol	7.842	196	410420	38.25	ppm	99

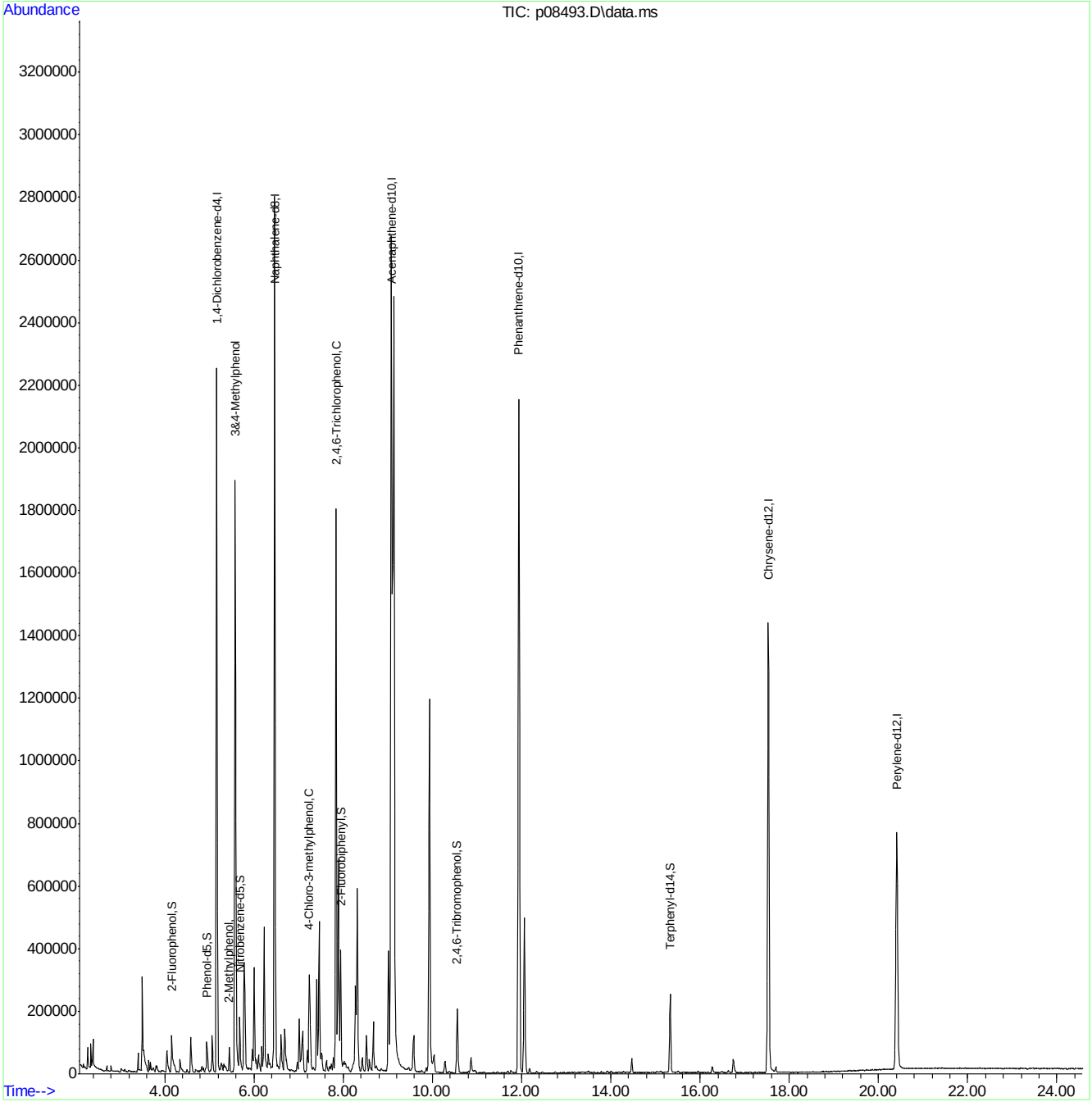
(#) = qualifier out of range (m) = manual integration (+) = signals summed

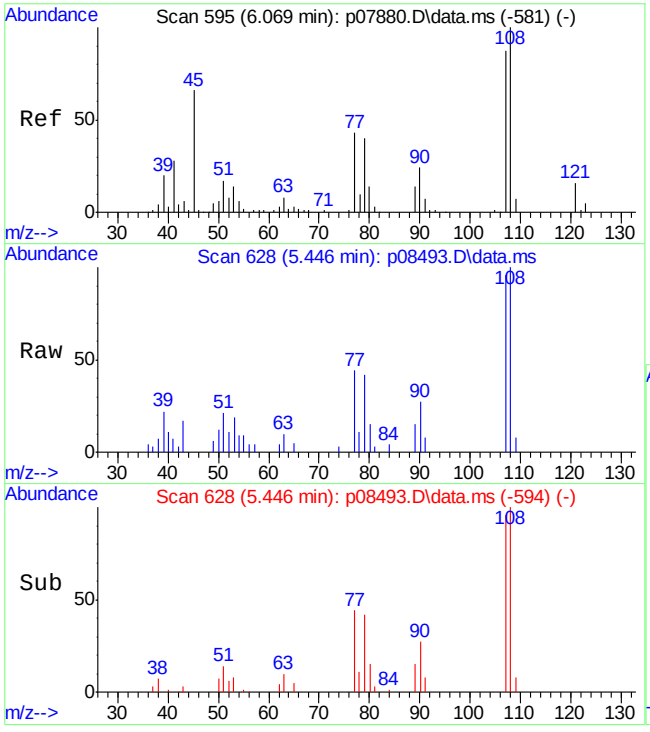
8.1.5
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08493.D
Acq On : 4 Feb 2010 1:26 am
Operator : garyj
Sample : t46705-2, x10
Misc : op13976,Ep403,1000,,,1,10,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 04 14:00:05 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

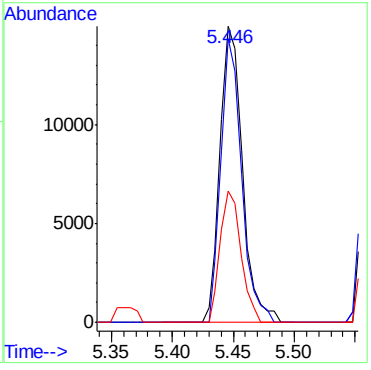


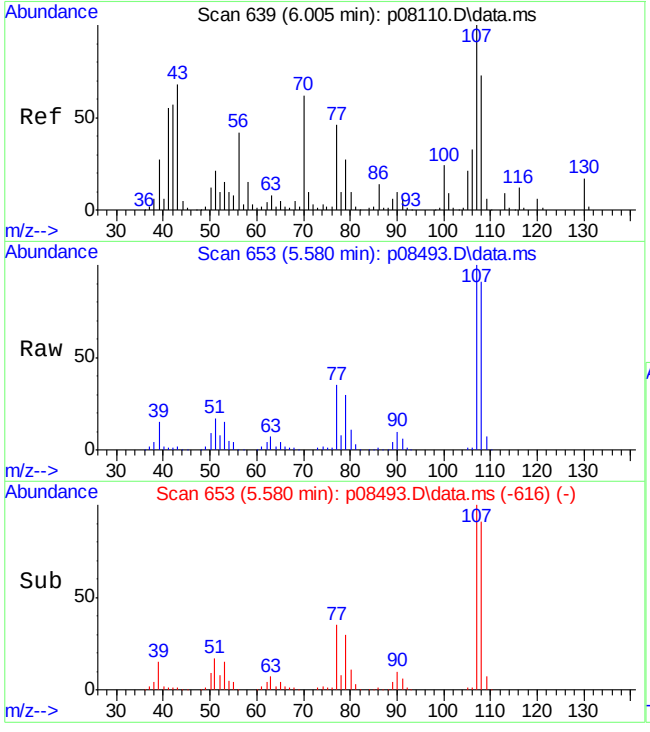


#20
2-Methylphenol
Concen: 0.89 ppm m
RT: 5.446 min Scan# 628
Delta R.T. -0.018 min
Lab File: p08493.D
Acq: 4 Feb 2010 1:26 am

Tgt Ion:108 Resp: 19138

Ion	Ratio	Lower	Upper
108	100		
107	0.0	57.6	117.6#
77	0.0	14.8	74.8#

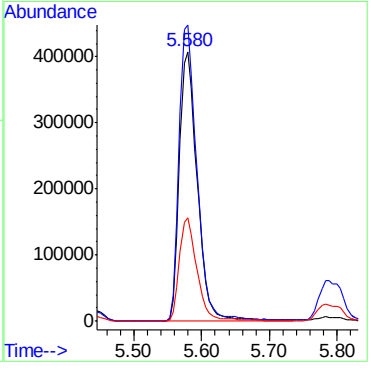




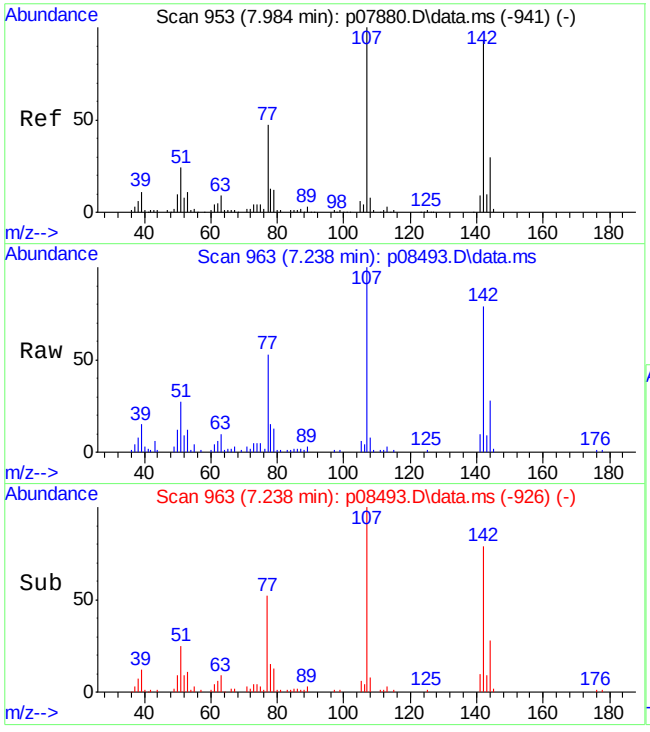
#24
3&4-Methylphenol
Concen: 38.42 ppm
RT: 5.580 min Scan# 653
Delta R.T. -0.004 min
Lab File: p08493.D
Acq: 4 Feb 2010 1:26 am

Tgt Ion:108 Resp: 745718

Ion	Ratio	Lower	Upper
108	100		
107	109.0	153.6	213.6#
77	38.0	30.6	90.6



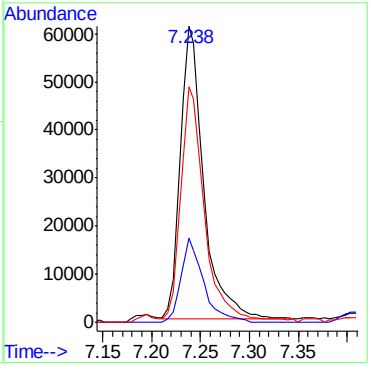
8.1.5
8

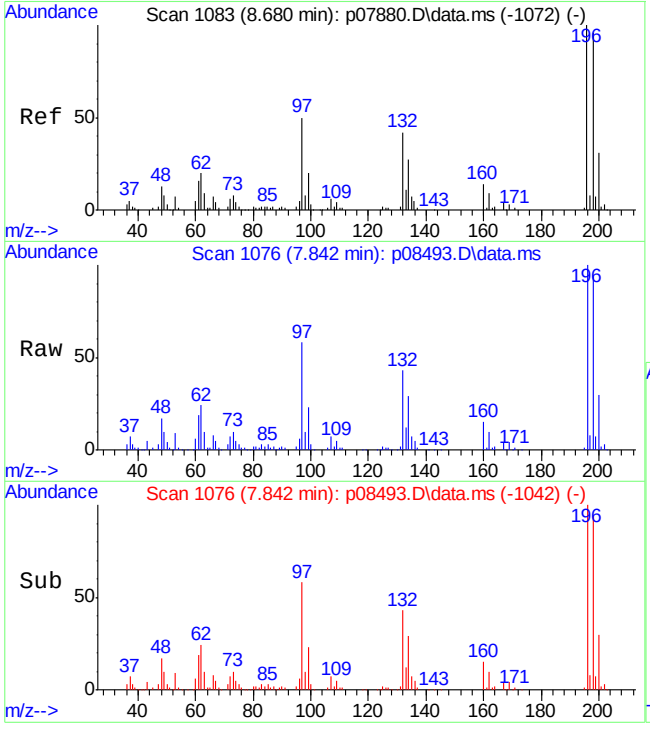


#42
4-Chloro-3-methylphenol
Concen: 6.38 ppm
RT: 7.238 min Scan# 963
Delta R.T. -0.002 min
Lab File: p08493.D
Acq: 4 Feb 2010 1:26 am

Tgt Ion:107 Resp: 100050

Ion	Ratio	Lower	Upper
107	100		
144	28.0	0.0	55.2
142	83.5	43.1	103.1

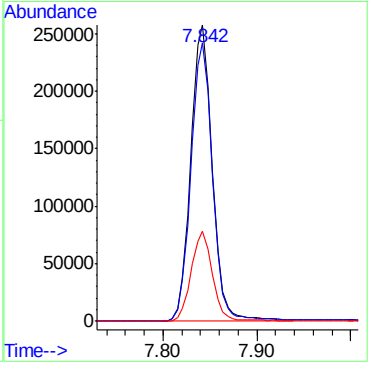




#48
2,4,6-Trichlorophenol
Concen: 38.25 ppm
RT: 7.842 min Scan# 1076
Delta R.T. -0.017 min
Lab File: p08493.D
Acq: 4 Feb 2010 1:26 am

Tgt Ion:196 Resp: 410420

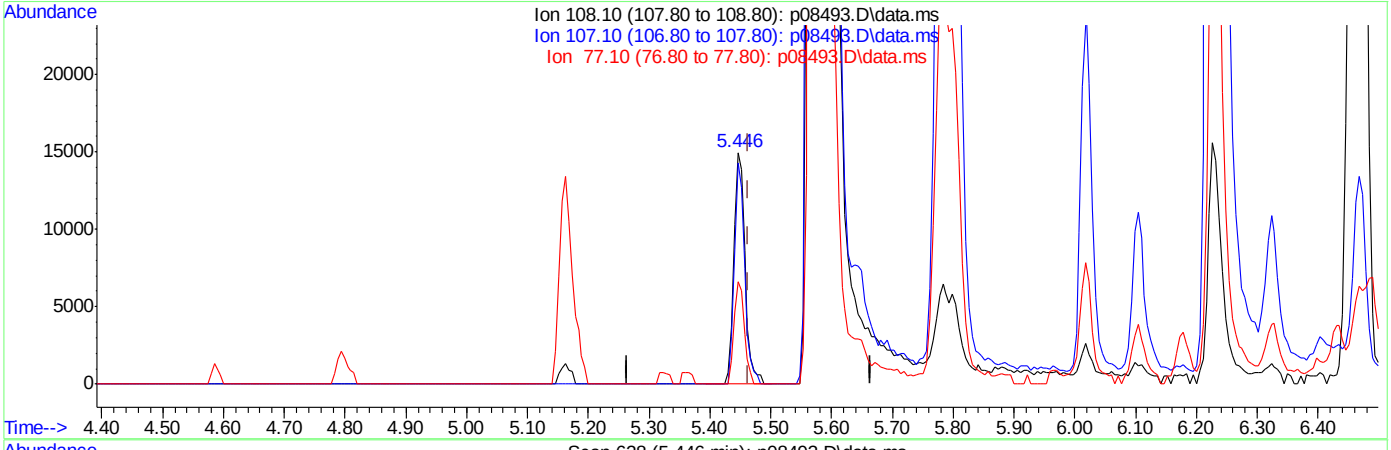
Ion	Ratio	Lower	Upper
196	100		
198	94.3	63.2	123.2
200	29.8	0.2	60.2

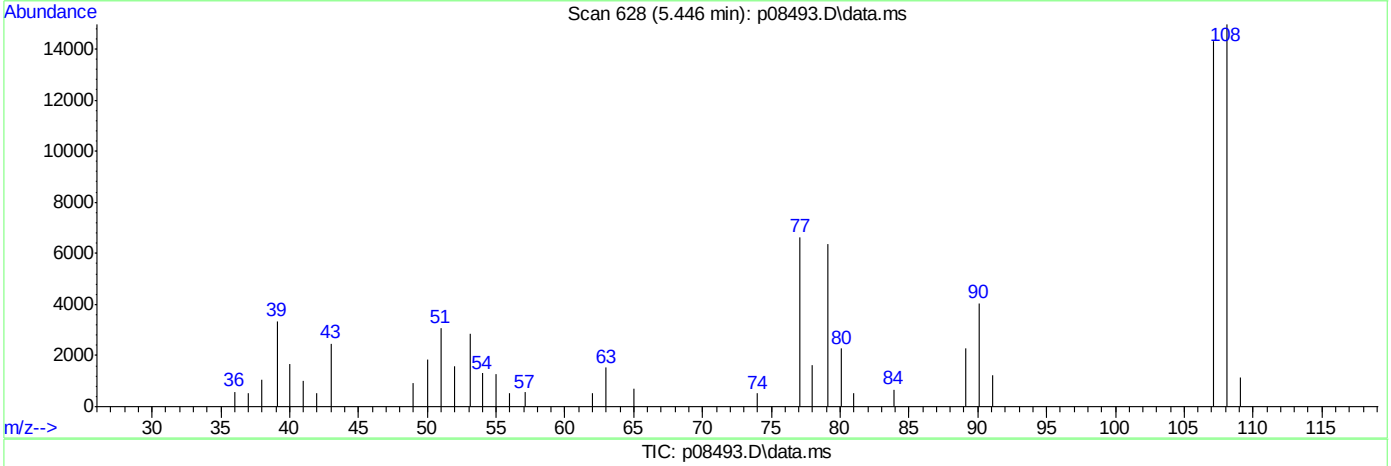


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08493.D
Acq On : 4 Feb 2010 1:26 am
Operator : garyj
Sample : t46705-2, x10
Misc : op13976,Ep403,1000,,,1,10,water
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 04 14:00:05 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08493.D\data.ms

(20) 2-Methylphenol ( )

5.446min (-0.018) 0.89ppm m

response 19138

Ion	Exp%	Act%
108.10	100	100
107.10	87.60	0.00#
77.10	44.80	0.00#
0.00	0.00	0.00

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 04 13:53:11 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

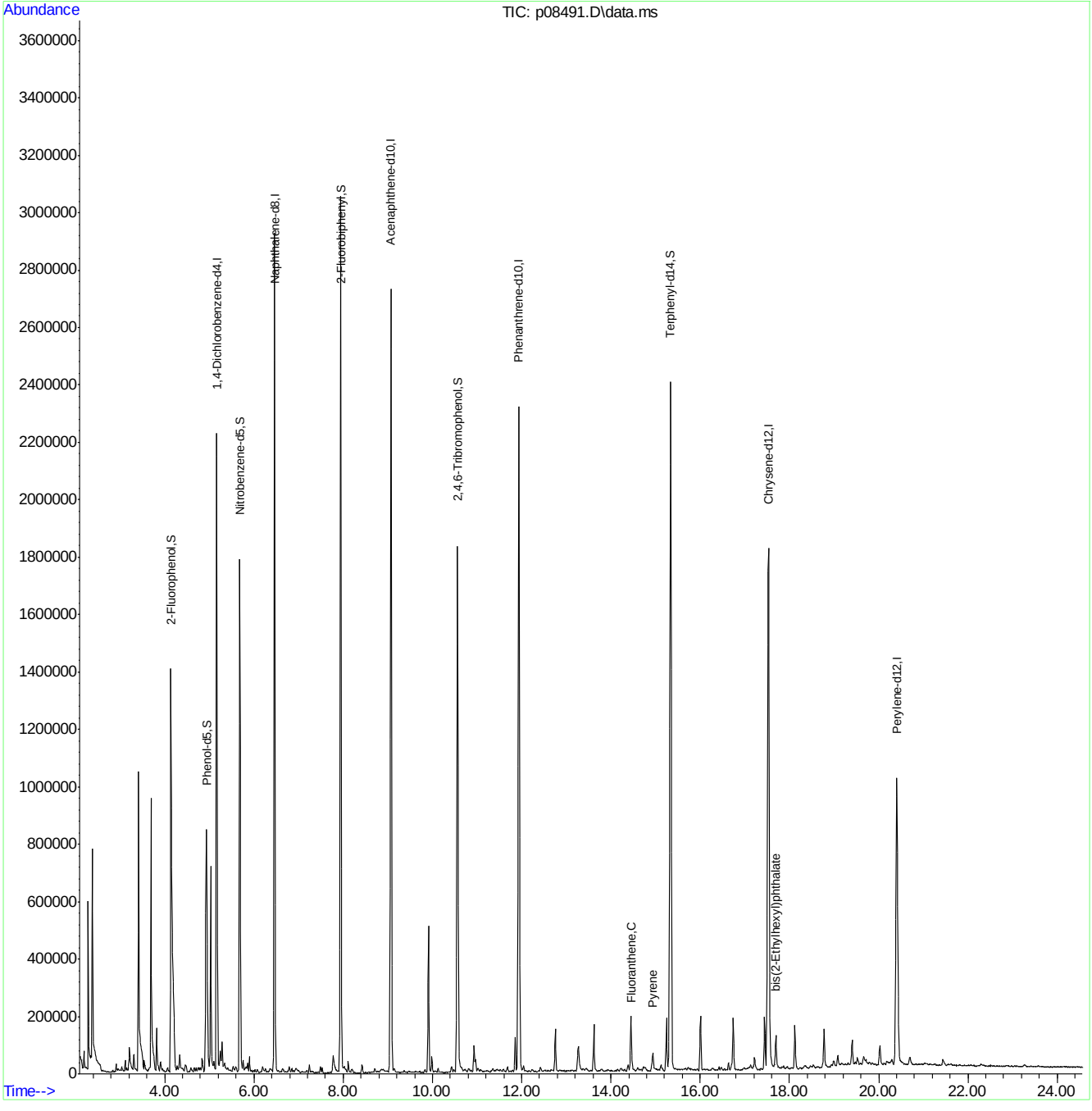
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	521913	40.00	ppm	0.01
25) Naphthalene-d8	6.462	136	1812293	40.00	ppm	0.00
46) Acenaphthene-d10	9.072	164	1149274	40.00	ppm	0.00
70) Phenanthrene-d10	11.934	188	1859784	40.00	ppm	0.00
85) Chrysene-d12	17.528	240	1633209	40.00	ppm	0.00
94) Perylene-d12	20.406	264	1012701	40.00	ppm	0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.141	112	817503	42.44	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 42.44%			
12) Phenol-d5	4.938	99	738587	32.82	ppm	0.03
Spiked Amount 100.000	Range 10 - 53		Recovery = 32.82%			
26) Nitrobenzene-d5	5.681	82	773661	33.99	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 67.98%			
50) 2-Fluorobiphenyl	7.944	172	1551703	37.31	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 74.62%			
75) 2,4,6-Tribromophenol	10.564	330	382598	79.30	ppm	-0.04
Spiked Amount 100.000	Range 32 - 128		Recovery = 79.30%			
88) Terphenyl-d14	15.335	244	1594590	37.81	ppm	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 75.62%			
Target Compounds						Qvalue
84) Fluoranthene	14.464	202	38196	0.70	ppm	# 63
87) Pyrene	14.934	202	42814	0.62	ppm	# 61
93) bis(2-Ethylhexyl)phtha...	17.694	149	79741	1.78	ppm	# 50

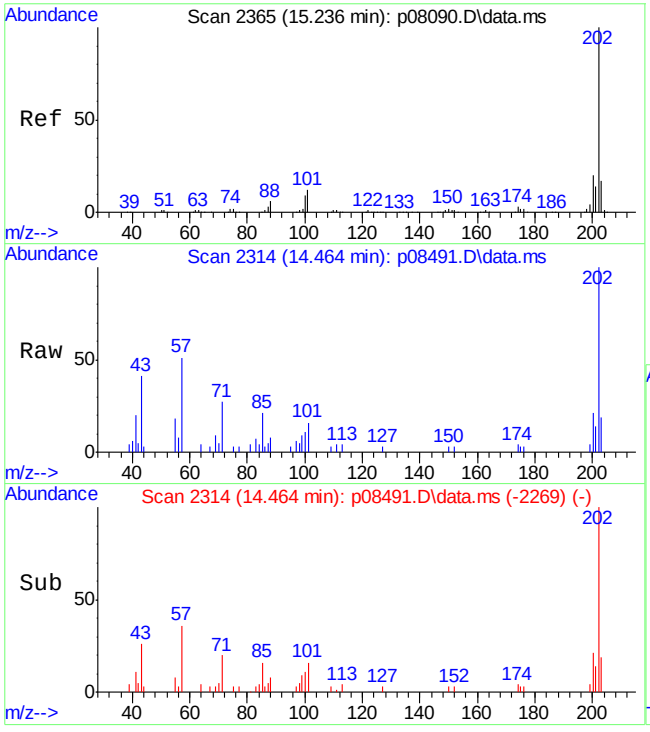
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 04 13:53:11 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

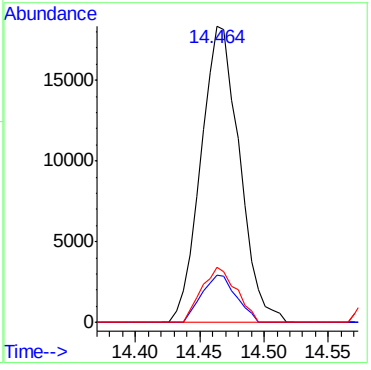


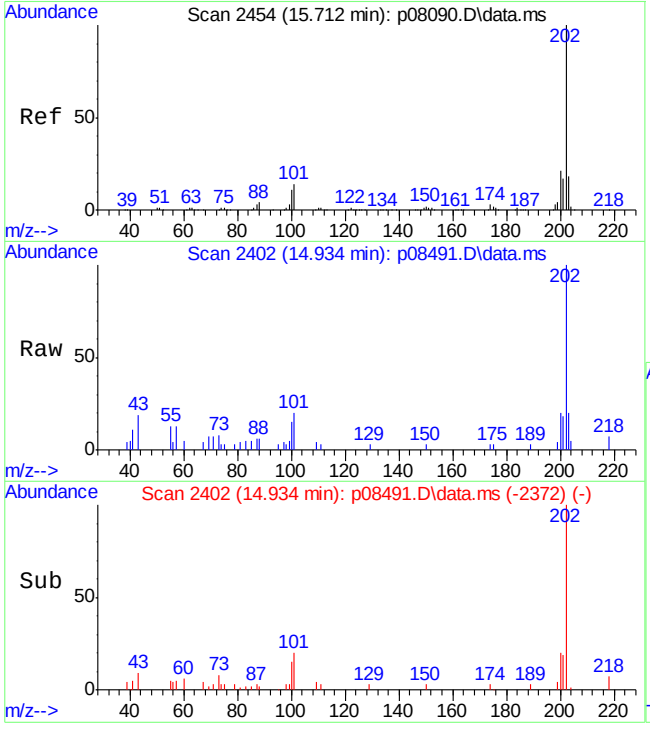


#84
Fluoranthene
Concen: 0.70 ppm
RT: 14.464 min Scan# 2314
Delta R.T. 0.042 min
Lab File: p08491.D
Acq: 4 Feb 2010 12:24 am

Tgt Ion:202 Resp: 38196

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	43.1
203	0.0	0.0	47.4

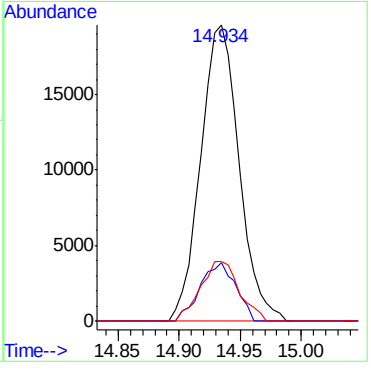


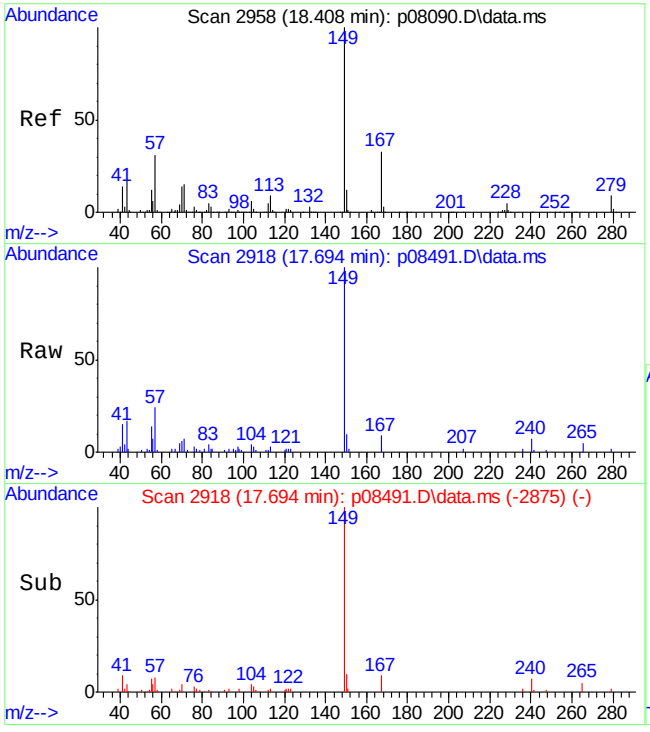


#87
Pyrene
Concen: 0.62 ppm
RT: 14.934 min Scan# 2402
Delta R.T. -0.039 min
Lab File: p08491.D
Acq: 4 Feb 2010 12:24 am

Tgt Ion:202 Resp: 42814

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	45.7
203	0.0	0.0	47.8

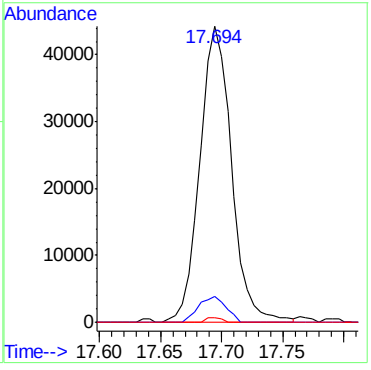




#93
bis(2-Ethylhexyl)phthalate
Concen: 1.78 ppm
RT: 17.694 min Scan# 2918
Delta R.T. 0.028 min
Lab File: p08491.D
Acq: 4 Feb 2010 12:24 am

Tgt Ion:149 Resp: 79741

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.9	60.9#
279	0.0	0.0	37.0



8.1.6

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08491.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.194	15	20	33	rVB	61541	72794	1.41%	0.124%
2	2.285	33	37	47	rVV	585815	632780	12.25%	1.075%
3	2.376	50	54	94	rVB	774038	1242452	24.06%	2.111%
4	2.911	148	154	158	rBV	29363	30558	0.59%	0.052%
5	3.114	188	192	196	rBV	36635	39009	0.76%	0.066%
6	3.210	203	210	224	rVV	82611	176195	3.41%	0.299%
7	3.306	224	228	243	rVB	57856	84804	1.64%	0.144%
8	3.413	243	248	269	rBV	1041456	1427765	27.64%	2.426%
9	3.542	269	272	286	rVB	37099	62253	1.21%	0.106%
10	3.691	291	300	320	rVV	949116	1210187	23.43%	2.056%
11	3.820	320	324	336	rVV	149198	208005	4.03%	0.353%
12	3.905	336	340	346	rVV	31021	44271	0.86%	0.075%
13	4.061	360	369	378	rVB4	15020	30487	0.59%	0.052%
14	4.141	378	384	407	rBV	1405453	3021348	58.50%	5.133%
15	4.333	413	420	429	rVV2	52472	73408	1.42%	0.125%
16	4.462	439	444	445	rBV3	19811	27939	0.54%	0.047%
17	4.585	462	467	477	rVB3	16133	29504	0.57%	0.050%
18	4.660	477	481	485	rBV2	16195	24928	0.48%	0.042%
19	4.841	510	515	522	rVB3	47993	67650	1.31%	0.115%
20	4.938	522	533	544	rBV	844360	2157418	41.77%	3.665%
21	5.029	544	550	560	rVV	713403	900876	17.44%	1.530%
22	5.104	561	564	569	rVV2	33650	53518	1.04%	0.091%
23	5.162	569	575	585	rVV	2219490	3318508	64.25%	5.638%
24	5.248	585	591	594	rVV2	69956	119455	2.31%	0.203%
25	5.285	594	598	603	rVV	99300	146701	2.84%	0.249%
26	5.344	606	609	618	rVV	25920	44345	0.86%	0.075%
27	5.531	640	644	651	rBV5	17741	29816	0.58%	0.051%
28	5.585	651	654	663	rVB3	17232	36797	0.71%	0.063%
29	5.681	663	672	682	rBV	1784963	2415545	46.77%	4.104%
30	5.756	682	686	692	rVV3	37877	65834	1.27%	0.112%
31	5.820	692	698	701	rVV4	16265	33193	0.64%	0.056%
32	5.858	701	705	709	rVV3	30182	39721	0.77%	0.067%
33	5.900	709	713	716	rVB	53182	49913	0.97%	0.085%
34	6.200	760	769	776	rBV5	20835	42446	0.82%	0.072%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

35	6.360	791	799	810	rBV5	13260	45660	0.88%	0.078%
36	6.462	810	818	831	rBV	2922024	4082976	79.05%	6.936%
37	6.639	847	851	861	rVB4	12841	21536	0.42%	0.037%
38	6.788	870	879	885	rBV2	19387	30824	0.60%	0.052%
39	6.938	902	907	917	rBV6	14759	42566	0.82%	0.072%
40	7.243	959	964	969	rBV	28132	35306	0.68%	0.060%
41	7.489	1005	1010	1014	rBV	20351	27640	0.54%	0.047%
42	7.526	1014	1017	1025	rVB2	20916	26014	0.50%	0.044%
43	7.772	1056	1063	1083	rBV	60841	183795	3.56%	0.312%
44	7.944	1087	1095	1106	rBV	3048914	4688617	90.78%	7.965%
45	8.115	1121	1127	1133	rVB2	38895	50029	0.97%	0.085%
46	8.179	1135	1139	1149	rVB7	11876	30253	0.59%	0.051%
47	8.425	1177	1185	1194	rBV	29073	41690	0.81%	0.071%
48	8.853	1255	1265	1268	rBV5	10546	25376	0.49%	0.043%
49	9.072	1295	1306	1316	rBV	2727080	4861009	94.11%	8.258%
50	9.826	1442	1447	1454	rBV3	12129	21664	0.42%	0.037%
51	9.912	1454	1463	1470	rVV	511114	745030	14.42%	1.266%
52	9.987	1472	1477	1483	rVV	56223	80914	1.57%	0.137%
53	10.126	1498	1503	1510	rVV3	16002	25006	0.48%	0.042%
54	10.431	1552	1560	1565	rBV6	21120	43044	0.83%	0.073%
55	10.564	1575	1585	1600	rBV	1831511	3680596	71.26%	6.253%
56	10.730	1611	1616	1625	rVB7	9634	19806	0.38%	0.034%
57	10.811	1625	1631	1636	rBV6	11348	23593	0.46%	0.040%
58	10.928	1647	1653	1657	rBV	92328	142940	2.77%	0.243%
59	11.019	1665	1670	1676	rVB4	10938	21780	0.42%	0.037%
60	11.078	1677	1681	1693	rVB5	10458	19997	0.39%	0.034%
61	11.356	1720	1733	1737	rBV4	11916	32395	0.63%	0.055%
62	11.682	1787	1794	1801	rVB4	17715	31275	0.61%	0.053%
63	11.853	1820	1826	1831	rBV	119923	181521	3.51%	0.308%
64	11.934	1831	1841	1855	rVV2	2314913	4941048	95.66%	8.394%
65	12.046	1855	1862	1866	rVB6	18409	33579	0.65%	0.057%
66	12.233	1891	1897	1907	rVB6	8743	21839	0.42%	0.037%
67	12.420	1928	1932	1939	rVB2	13680	21427	0.41%	0.036%
68	12.752	1987	1994	2006	rVB	145603	221045	4.28%	0.376%
69	13.266	2082	2090	2104	rBV3	86674	224822	4.35%	0.382%
70	13.619	2148	2156	2162	rBV	163040	251778	4.87%	0.428%
71	13.784	2182	2187	2201	rVB7	9118	21692	0.42%	0.037%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	14.218	2263	2268	2278	rBV2	11005	27177	0.53%	0.046%
73	14.378	2291	2298	2305	rBV3	22336	50101	0.97%	0.085%
74	14.448	2305	2311	2321	rBV2	189207	349611	6.77%	0.594%
75	14.603	2334	2340	2345	rBV2	12587	19989	0.39%	0.034%
76	14.731	2359	2364	2367	rBV4	13724	24927	0.48%	0.042%
77	14.934	2393	2402	2413	rBV2	64666	158065	3.06%	0.269%
78	15.122	2431	2437	2450	rVB6	20580	50915	0.99%	0.086%
79	15.245	2450	2460	2465	rBV	184055	301655	5.84%	0.512%
80	15.335	2465	2477	2493	rVB2	2394105	5165013	100.00%	8.775%
81	16.004	2595	2602	2611	rBV	189679	294394	5.70%	0.500%
82	16.469	2685	2689	2697	rVV4	10364	22642	0.44%	0.038%
83	16.635	2714	2720	2727	rVB3	25476	42180	0.82%	0.072%
84	16.737	2728	2739	2747	rVV	180190	325939	6.31%	0.554%
85	17.127	2808	2812	2818	rVB2	13813	21474	0.42%	0.036%
86	17.218	2820	2829	2842	rVB	44110	103005	1.99%	0.175%
87	17.443	2863	2871	2876	rVV	182969	297587	5.76%	0.506%
88	17.528	2876	2887	2910	rVV	1814086	4463671	86.42%	7.583%
89	17.694	2910	2918	2933	rVB2	113755	222566	4.31%	0.378%
90	18.122	2991	2998	3011	rVB	151918	265556	5.14%	0.451%
91	18.775	3114	3120	3127	rBV	129262	204066	3.95%	0.347%
92	18.989	3155	3160	3169	rVB2	18237	43389	0.84%	0.074%
93	19.079	3171	3177	3184	rVV3	35484	65212	1.26%	0.111%
94	19.406	3231	3238	3247	rVB	84471	147916	2.86%	0.251%
95	19.523	3255	3260	3268	rVB5	22918	45432	0.88%	0.077%
96	19.668	3280	3287	3292	rBV4	22964	55478	1.07%	0.094%
97	20.026	3348	3354	3365	rVB2	67178	130227	2.52%	0.221%
98	20.406	3412	3425	3442	rBV	998204	2885695	55.87%	4.902%
99	20.700	3474	3480	3490	rVB5	26278	63434	1.23%	0.108%
100	21.438	3614	3618	3631	rVB4	20911	55203	1.07%	0.094%

Sum of corrected areas: 58863024

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On    :  4 Feb 2010  12:24 am
Operator  : garyj
Sample    : t46705-3
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
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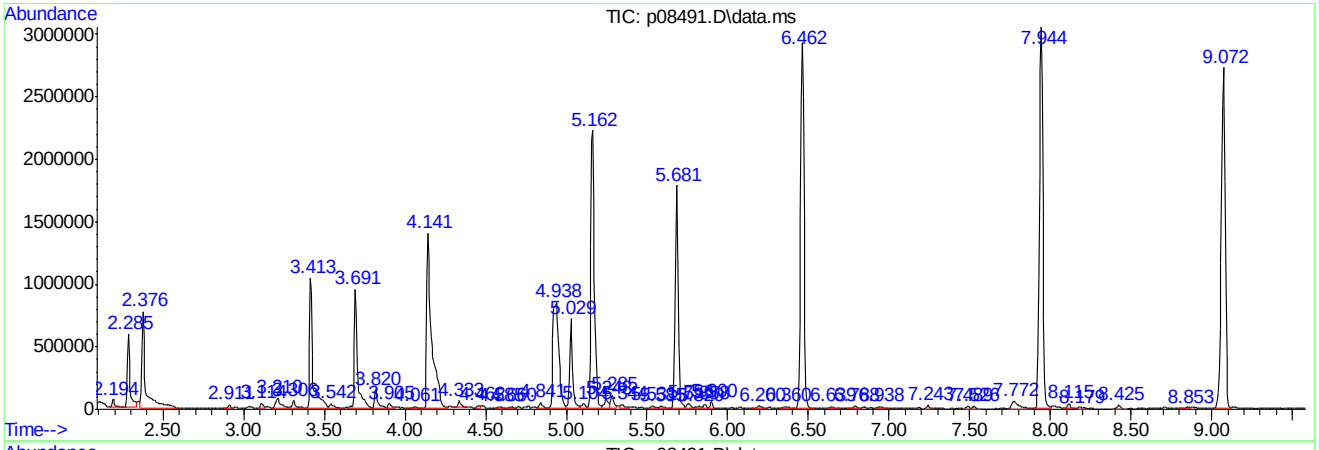
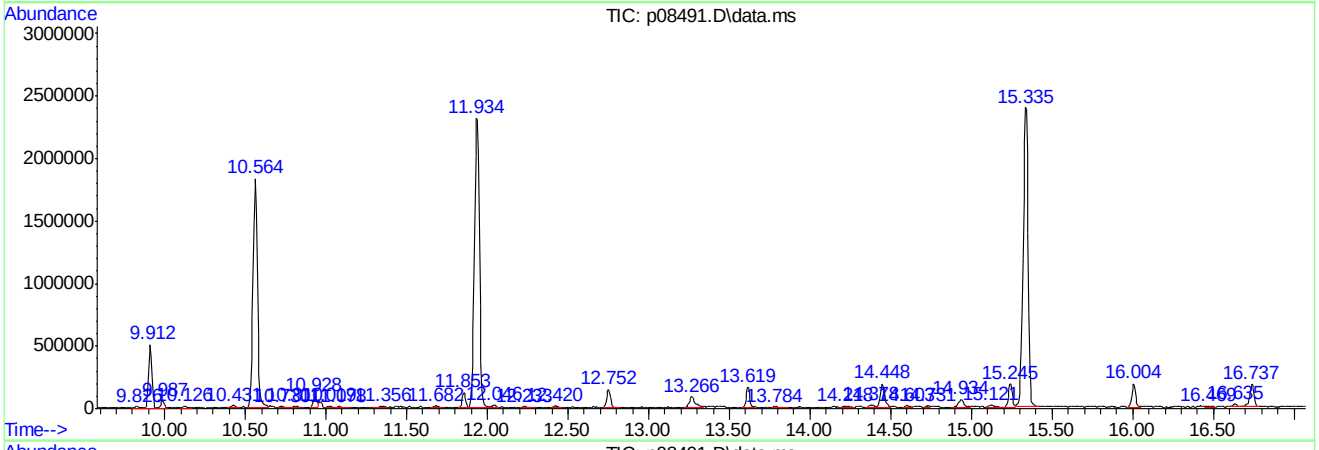
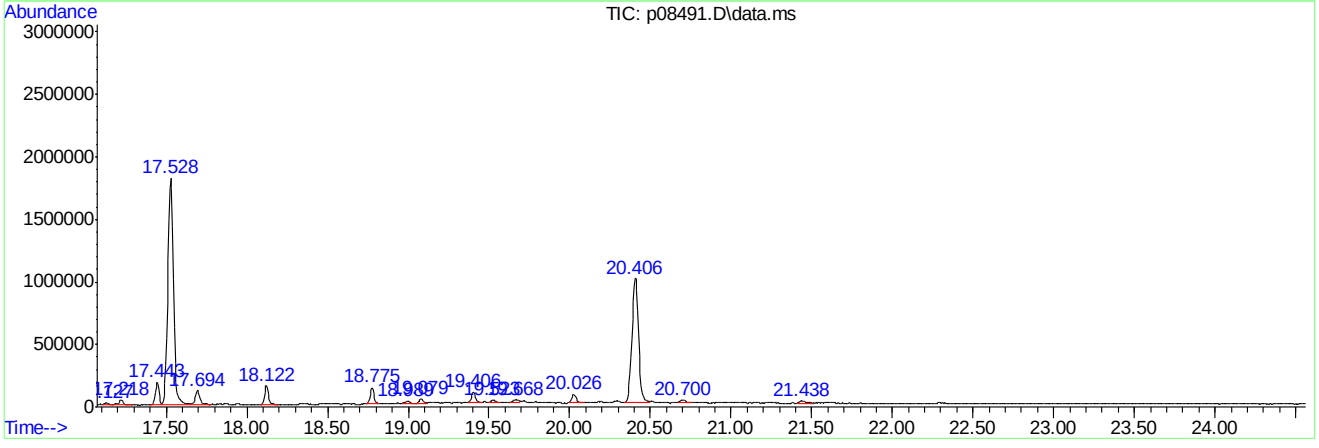






Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

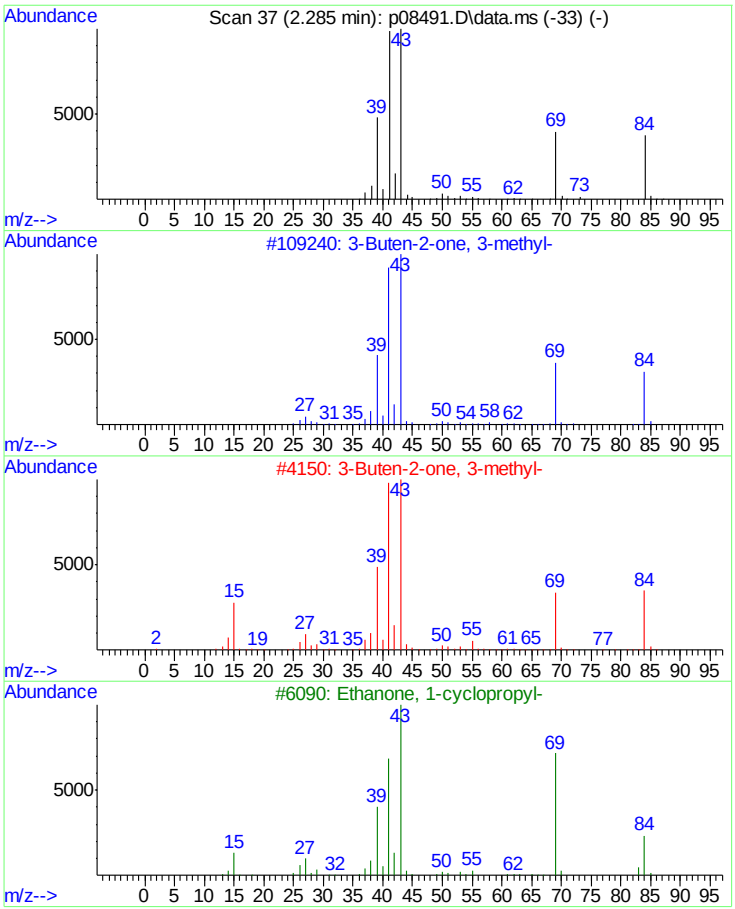
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

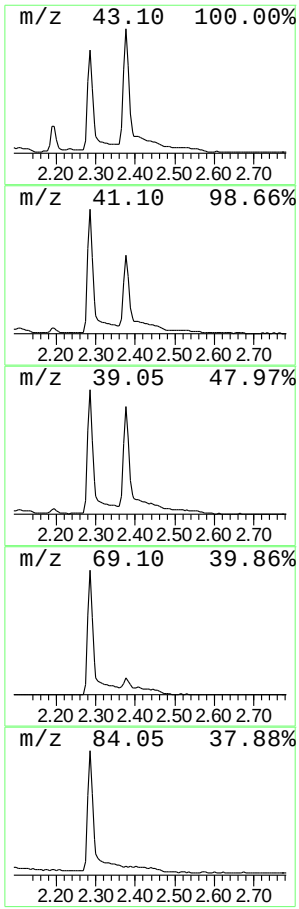
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 3-Buten-2-one, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.285	7.63 ppm	632780	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	91
2	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	91
3	Ethanone, 1-cyclopropyl-	84	C5H8O	000765-43-5	50
4	Ethanone, 1-cyclopropyl-	84	C5H8O	000765-43-5	49
5	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

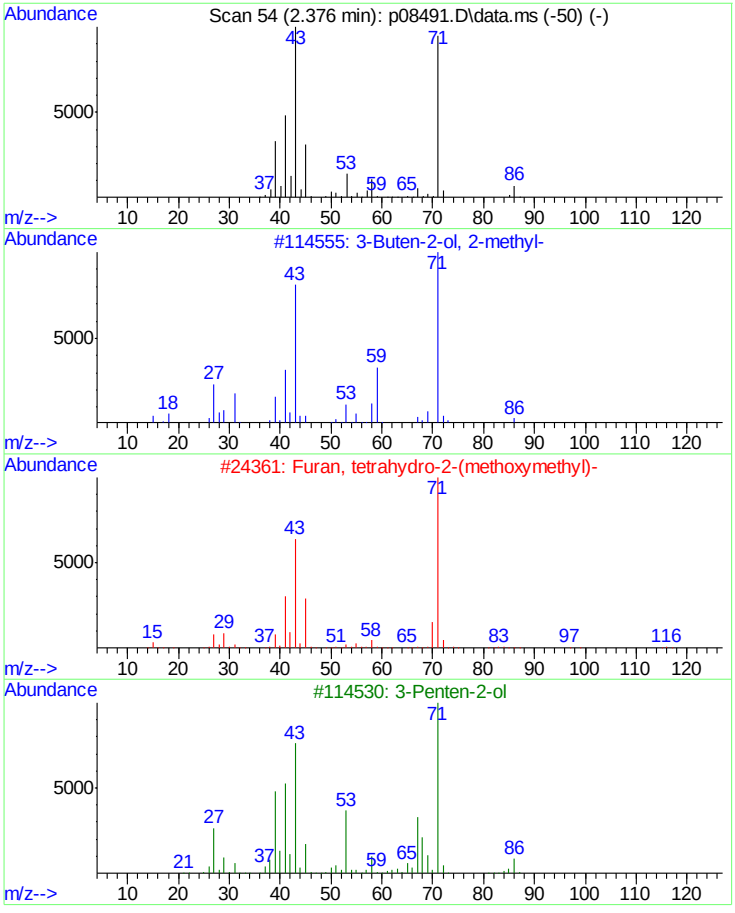
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

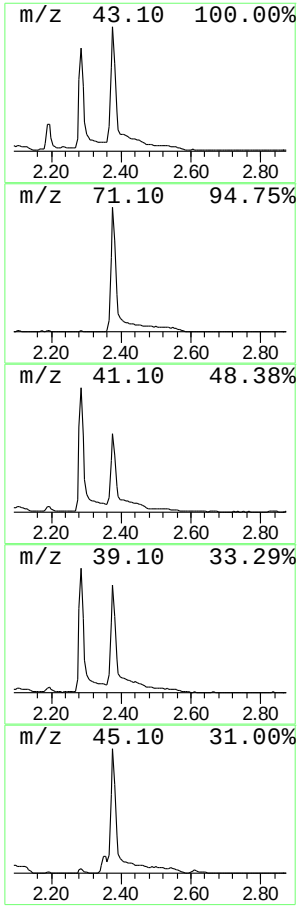
****

Peak Number 2 3-Buten-2-ol, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.376	14.98 ppm	1242450	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	72
2	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	72
3	3-Penten-2-ol	86	C5H10O	001569-50-2	64
4	Pentane, 3-bromo-	150	C5H11Br	001809-10-5	53
5	Propanoic acid, 2-methyl-, anhyd...	158	C8H14O3	000097-72-3	53





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

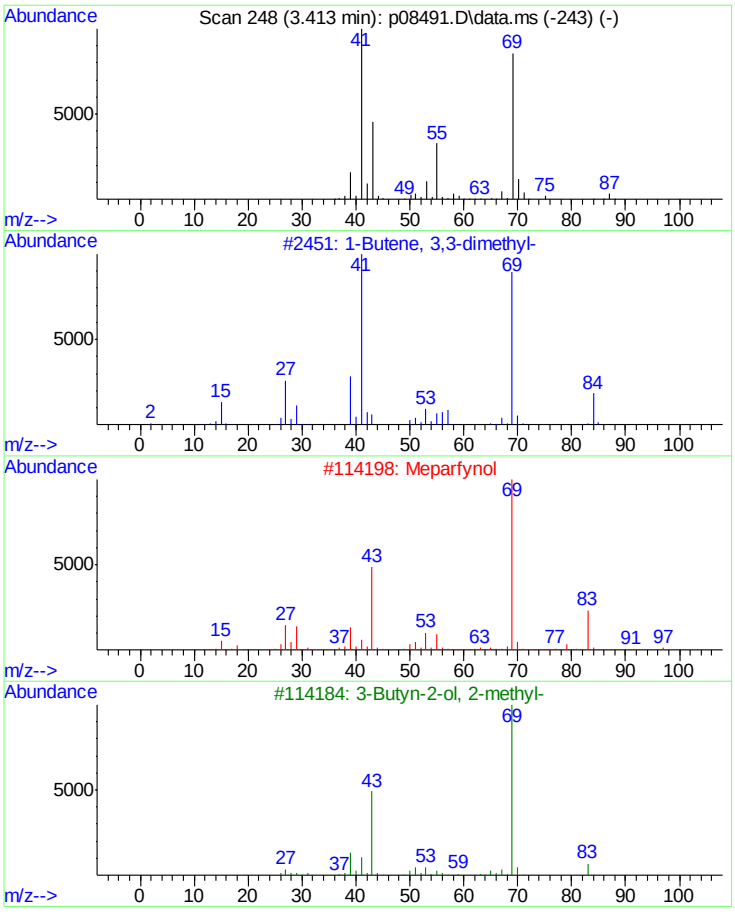
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

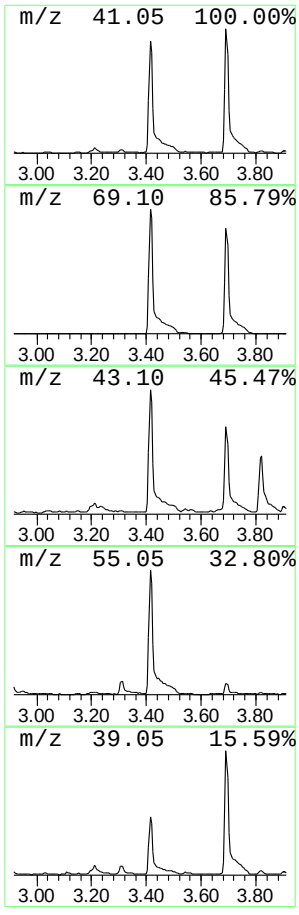
****

Peak Number 3 1-Butene, 3,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.413	17.21 ppm	1427770	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	40
2	Meparfynol	98	C6H10O	000077-75-8	28
3	3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	28
4	4-Heptanol, 2,6-dimethyl-	144	C9H20O	000108-82-7	9
5	3-Penten-1-ol, 2-methyl-	100	C6H12O	062238-37-3	9





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

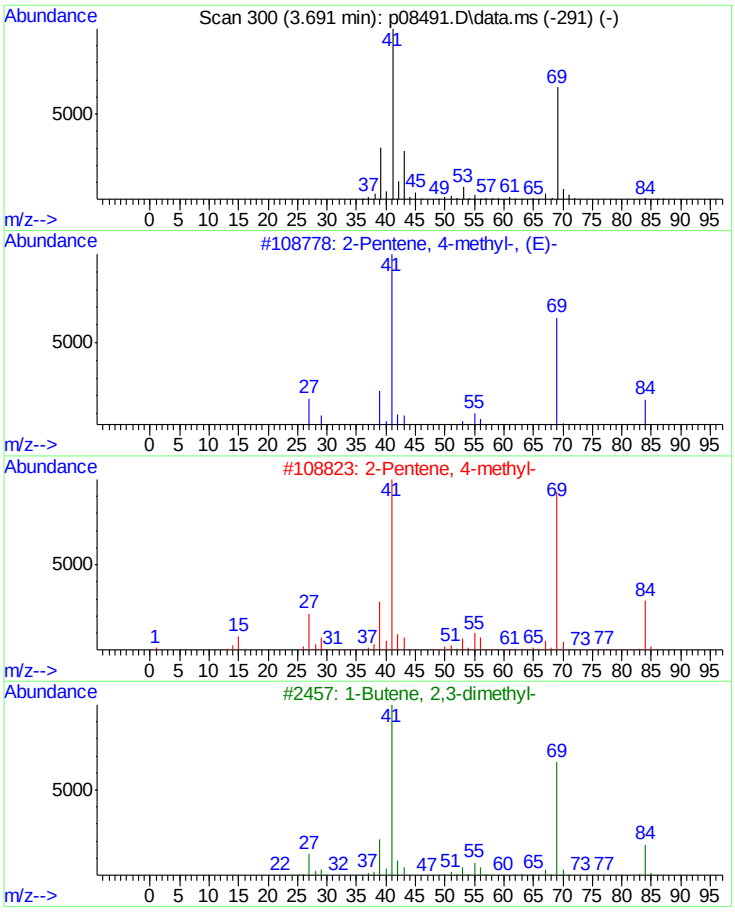
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

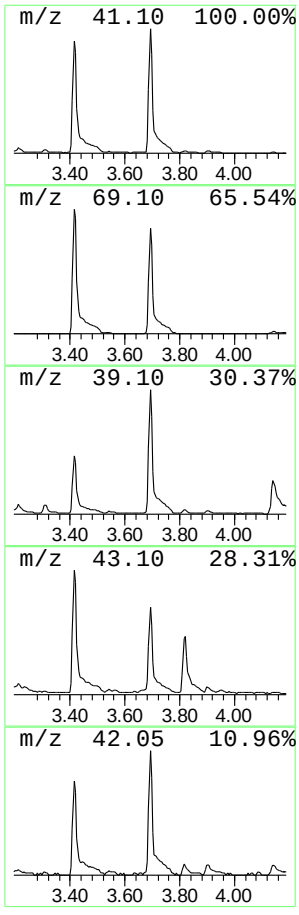
****

Peak Number 4 2-Pentene, 4-methyl-, (E)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.691	14.59 ppm	1210190	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 4-methyl-, (E)-	84	C6H12	000674-76-0	72
2	2-Pentene, 4-methyl-	84	C6H12	004461-48-7	72
3	1-Butene, 2,3-dimethyl-	84	C6H12	000563-78-0	59
4	2-Pentene, 4-methyl-, (E)-	84	C6H12	000674-76-0	45
5	2-Pentene, 4-methyl-, (E)-	84	C6H12	000674-76-0	45





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

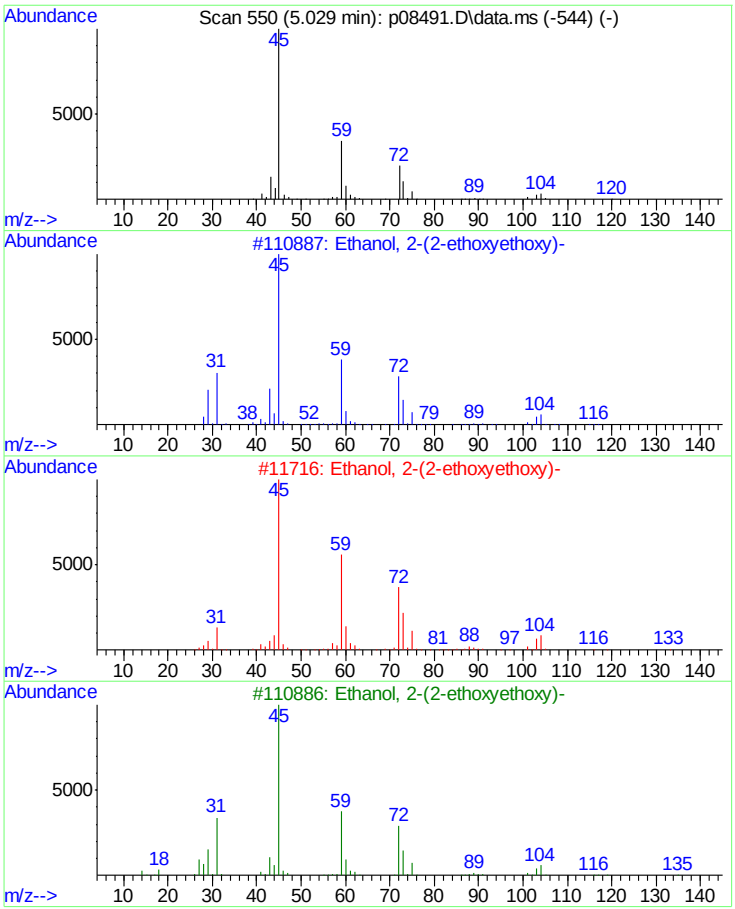
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

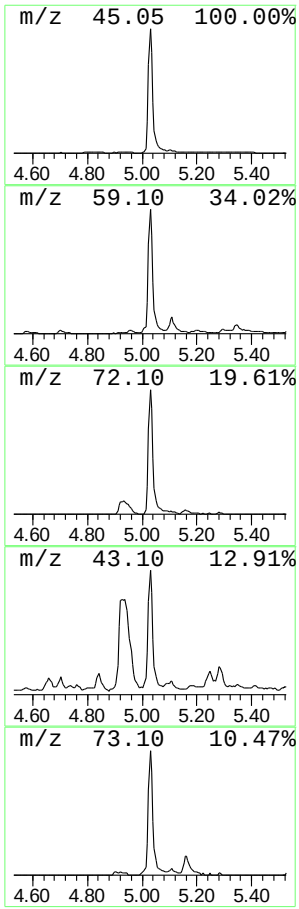
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.029	10.86 ppm	900876	1,4-Dichlorobenzene-d4	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	74
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
4	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	36
5	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	36





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

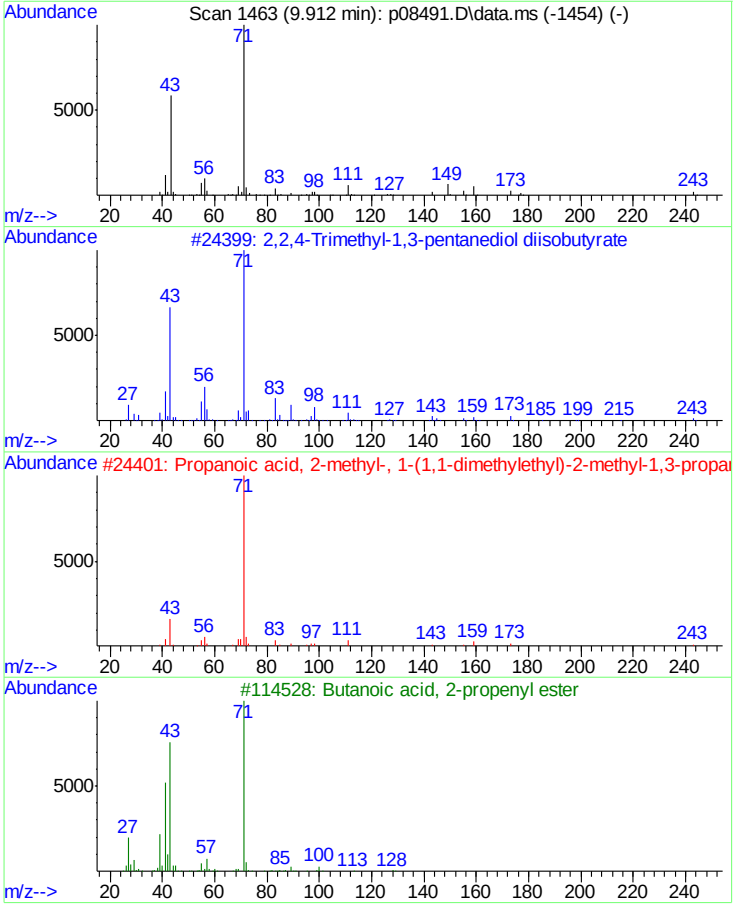
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

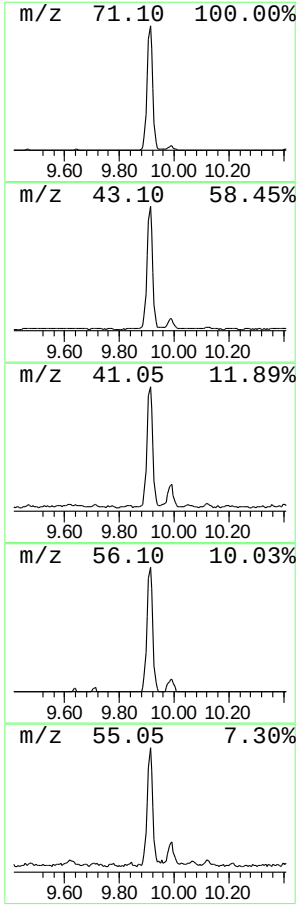
****

Peak Number 6 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.912	6.13 ppm	745030	Acenaphthene-d10	9.072

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	64
2	Propanoic acid, 2-methyl-, 1-(1,...	286	C16H30O4	074381-40-1	56
3	Butanoic acid, 2-propenyl ester	128	C7H12O2	002051-78-7	53
4	2-Furanmethanol, tetrahydro-, ac...	144	C7H12O3	000637-64-9	42
5	2-Hexen-4-ol, 5-methyl-	114	C7H14O	1000163-45-9	42





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08491.D
Acq On : 4 Feb 2010 12:24 am
Operator : garyj
Sample : t46705-3
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
3-Buten-2-one, ...	2.285	7.6	ppm	632780	1	5.162	3318510	40.0
3-Buten-2-ol, 2...	2.376	15.0	ppm	1242450	1	5.162	3318510	40.0
1-Butene, 3,3-d...	3.413	17.2	ppm	1427770	1	5.162	3318510	40.0
2-Pentene, 4-me...	3.691	14.6	ppm	1210190	1	5.162	3318510	40.0
Ethanol, 2-(2-e...	5.029	10.9	ppm	900876	1	5.162	3318510	40.0
2,2,4-Trimethyl...	9.912	6.1	ppm	745030	3	9.072	4861010	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On : 3 Feb 2010 10:51 pm
Operator : garyj
Sample : t46705-4
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 13:36:55 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

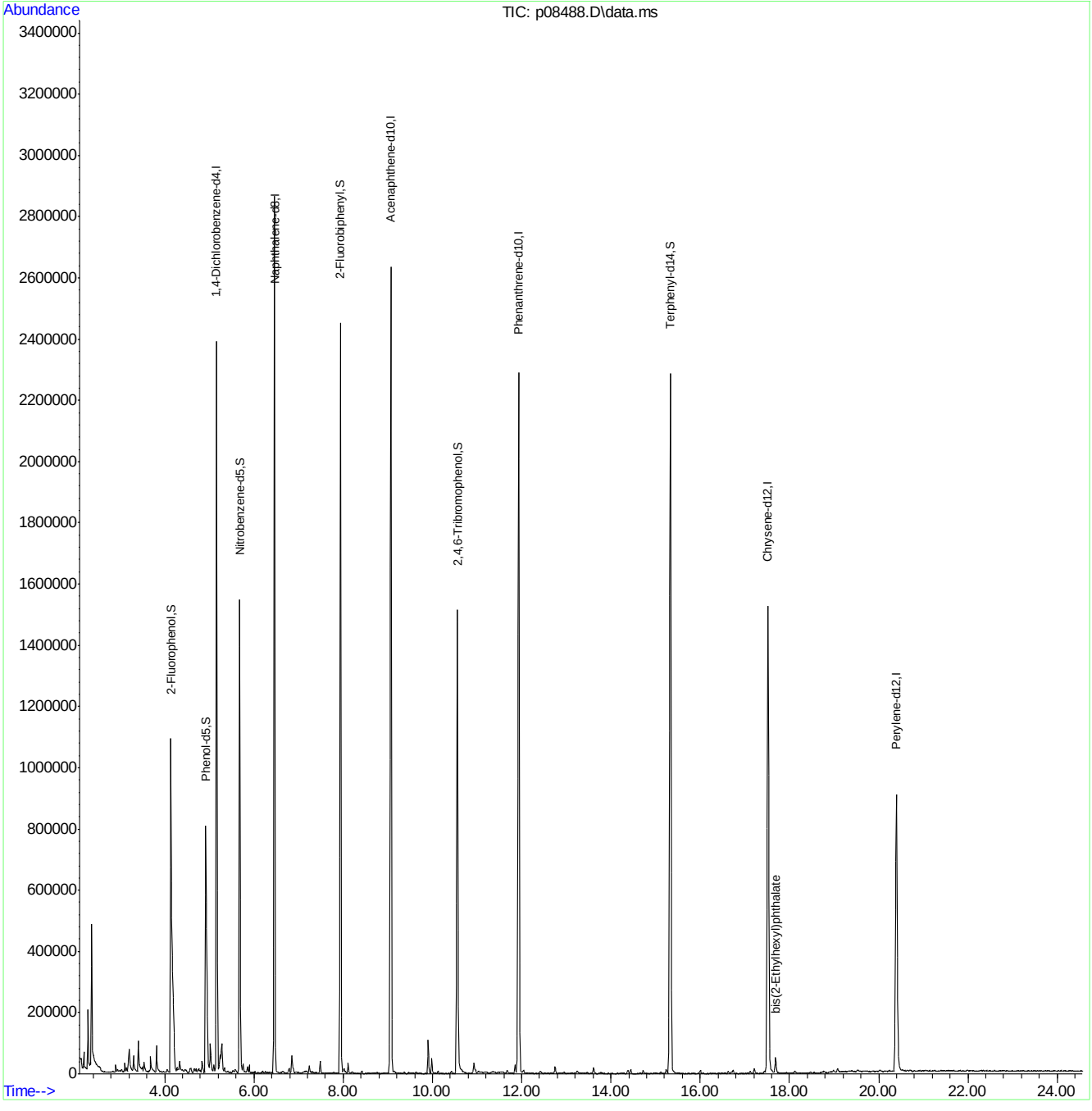
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	538236	40.00	ppm	0.00
25) Naphthalene-d8	6.462	136	1851853	40.00	ppm	0.00
46) Acenaphthene-d10	9.072	164	1166941	40.00	ppm	0.00
70) Phenanthrene-d10	11.928	188	1819132	40.00	ppm	-0.01
85) Chrysene-d12	17.518	240	1355706	40.00	ppm	-0.01
94) Perylene-d12	20.401	264	918822	40.00	ppm	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.135	112	674973	33.98	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 33.98%			
12) Phenol-d5	4.916	99	618488	26.65	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 26.65%			
26) Nitrobenzene-d5	5.681	82	658059	28.29	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 56.58%			
50) 2-Fluorobiphenyl	7.938	172	1266232	28.64	ppm	-0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 57.28%			
75) 2,4,6-Tribromophenol	10.559	330	315025	66.76	ppm	-0.04
Spiked Amount 100.000	Range 32 - 128		Recovery = 66.76%			
88) Terphenyl-d14	15.330	244	1489270	42.54	ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 85.08%			
Target Compounds						Qvalue
93) bis(2-Ethylhexyl)phtha...	17.689	149	39842	1.07	ppm	# 50

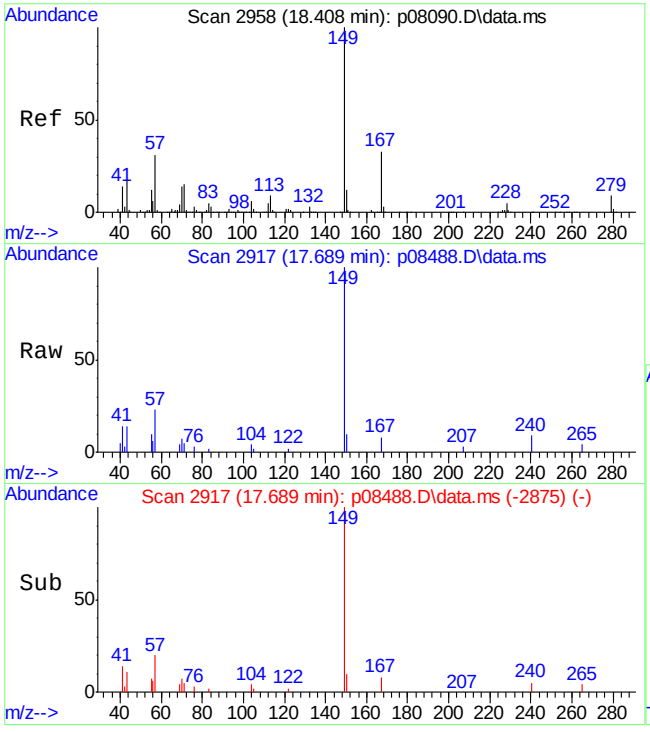
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On : 3 Feb 2010 10:51 pm
Operator : garyj
Sample : t46705-4
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 13:36:55 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

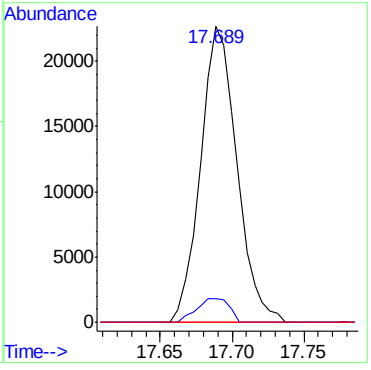




#93
bis(2-Ethylhexyl)phthalate
Concen: 1.07 ppm
RT: 17.689 min Scan# 2917
Delta R.T. 0.023 min
Lab File: p08488.D
Acq: 3 Feb 2010 10:51 pm

Tgt Ion:149 Resp: 39842

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.9	60.9#
279	0.0	0.0	37.0



8.1.8

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On : 3 Feb 2010 10:51 pm
Operator : garyj
Sample : t46705-4
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08488.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.189	16	19	32	rVV	55665	62791	1.28%	0.139%
2	2.279	33	36	45	rVV	196122	194483	3.96%	0.430%
3	2.365	45	52	94	rVB	481405	770013	15.67%	1.701%
4	2.905	149	153	158	rBV	25296	25855	0.53%	0.057%
5	2.943	158	160	166	rVB3	7484	8207	0.17%	0.018%
6	3.039	174	178	181	rVB4	8150	11108	0.23%	0.025%
7	3.103	187	190	194	rBV	31840	33440	0.68%	0.074%
8	3.141	194	197	202	rVV2	14395	18817	0.38%	0.042%
9	3.205	203	209	223	rVV	74744	164554	3.35%	0.363%
10	3.301	224	227	242	rVV	54763	86753	1.77%	0.192%
11	3.408	242	247	262	rVV	102453	164380	3.34%	0.363%
12	3.504	262	265	268	rVV3	19379	21921	0.45%	0.048%
13	3.536	268	271	286	rVV	31725	52336	1.06%	0.116%
14	3.686	295	299	319	rVB	53197	90789	1.85%	0.201%
15	3.815	319	323	337	rBV	87728	122604	2.49%	0.271%
16	4.055	363	368	378	rVB4	10524	17632	0.36%	0.039%
17	4.135	378	383	406	rBV	1090078	2480117	50.46%	5.478%
18	4.275	406	409	412	rBV3	11159	9964	0.20%	0.022%
19	4.333	412	420	430	rVB2	29183	42323	0.86%	0.093%
20	4.451	439	442	456	rVB4	12016	28861	0.59%	0.064%
21	4.569	461	464	475	rVV2	14530	32294	0.66%	0.071%
22	4.660	475	481	485	rVV3	14649	23953	0.49%	0.053%
23	4.702	485	489	493	rVV3	15333	21450	0.44%	0.047%
24	4.740	493	496	498	rVV2	10762	13601	0.28%	0.030%
25	4.761	498	500	503	rVV2	13775	14911	0.30%	0.033%
26	4.788	503	505	509	rVV3	9488	9871	0.20%	0.022%
27	4.841	509	515	522	rVV4	37545	55556	1.13%	0.123%
28	4.916	522	529	543	rVV	805172	1791498	36.45%	3.957%
29	5.023	543	549	560	rVV	94713	176992	3.60%	0.391%
30	5.104	560	564	568	rVV	26878	38108	0.78%	0.084%
31	5.157	568	574	584	rVV	2387509	3378222	68.74%	7.462%
32	5.243	584	590	592	rVV2	59596	94477	1.92%	0.209%
33	5.280	592	597	604	rVV2	94916	186839	3.80%	0.413%
34	5.339	604	608	617	rVV3	18020	27165	0.55%	0.060%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On : 3 Feb 2010 10:51 pm
Operator : garyj
Sample : t46705-4
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

35	5.408	617	621	627	rVB2	5895	9340	0.19%	0.021%
36	5.531	638	644	648	rBV3	8955	13495	0.27%	0.030%
37	5.580	649	653	662	rVB4	12479	25983	0.53%	0.057%
38	5.681	662	672	682	rBV	1546180	2041328	41.53%	4.509%
39	5.756	682	686	691	rVB5	26650	42314	0.86%	0.093%
40	5.852	699	704	708	rVB	19647	24325	0.49%	0.054%
41	5.895	708	712	716	rVB	28338	26565	0.54%	0.059%
42	6.189	753	767	776	rBV2	6611	16748	0.34%	0.037%
43	6.462	809	818	829	rBV	2863792	4152110	84.48%	9.172%
44	6.633	847	850	860	rVB2	7945	13771	0.28%	0.030%
45	6.788	870	879	884	rBV	15766	26270	0.53%	0.058%
46	6.847	884	890	904	rVB2	56068	114079	2.32%	0.252%
47	7.002	915	919	926	rVB5	4631	8934	0.18%	0.020%
48	7.136	930	944	947	rBV2	7745	21594	0.44%	0.048%
49	7.238	959	963	967	rBV	24115	29982	0.61%	0.066%
50	7.307	973	976	987	rVB3	5345	9601	0.20%	0.021%
51	7.484	1003	1009	1021	rBV	40084	48688	0.99%	0.108%
52	7.938	1082	1094	1104	rBV	2449755	3677502	74.82%	8.123%
53	8.019	1105	1109	1113	rVB	9308	11239	0.23%	0.025%
54	8.109	1122	1126	1134	rVB	32939	43496	0.88%	0.096%
55	8.200	1134	1143	1152	rVB5	5720	13540	0.28%	0.030%
56	8.420	1176	1184	1191	rBV	9432	13174	0.27%	0.029%
57	8.757	1241	1247	1260	rVB2	3780	12631	0.26%	0.028%
58	9.072	1294	1306	1316	rBV	2635184	4914840	100.00%	10.857%
59	9.907	1453	1462	1469	rVV	109237	153689	3.13%	0.339%
60	9.987	1469	1477	1484	rVV	51122	75236	1.53%	0.166%
61	10.121	1496	1502	1511	rBV2	8480	14274	0.29%	0.032%
62	10.425	1549	1559	1564	rVB3	7886	14502	0.30%	0.032%
63	10.559	1573	1584	1611	rBV	1514336	3029081	61.63%	6.691%
64	10.928	1645	1653	1664	rBV	33824	72390	1.47%	0.160%
65	11.024	1664	1671	1677	rBV4	5761	14408	0.29%	0.032%
66	11.319	1718	1726	1729	rBV5	4745	9991	0.20%	0.022%
67	11.474	1746	1755	1760	rBV4	4683	12752	0.26%	0.028%
68	11.677	1787	1793	1799	rBV3	9716	17076	0.35%	0.038%
69	11.854	1819	1826	1831	rBV	29325	45060	0.92%	0.100%
70	11.934	1831	1841	1853	rVV2	2287965	4746329	96.57%	10.484%
71	12.041	1856	1861	1867	rVB3	11400	18639	0.38%	0.041%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On : 3 Feb 2010 10:51 pm
Operator : garyj
Sample : t46705-4
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	12.415	1925	1931	1938	rBV2	7883	14434	0.29%	0.032%
73	12.747	1984	1993	2001	rVB	23165	37823	0.77%	0.084%
74	12.950	2026	2031	2039	rVB2	4812	9023	0.18%	0.020%
75	13.244	2079	2086	2104	rVV2	7974	28335	0.58%	0.063%
76	13.469	2124	2128	2136	rVV4	4061	8550	0.17%	0.019%
77	13.613	2149	2155	2169	rVV2	19724	36318	0.74%	0.080%
78	13.779	2180	2186	2196	rVB2	4499	11701	0.24%	0.026%
79	14.378	2290	2298	2304	rVV	12314	20626	0.42%	0.046%
80	14.442	2304	2310	2320	rVB2	14666	24565	0.50%	0.054%
81	14.726	2355	2363	2372	rBV3	9889	19481	0.40%	0.043%
82	15.116	2430	2436	2445	rBV2	5958	11915	0.24%	0.026%
83	15.239	2452	2459	2464	rBV	14152	21636	0.44%	0.048%
84	15.330	2464	2476	2497	rBV2	2286848	4780709	97.27%	10.560%
85	16.004	2595	2602	2608	rBV	11089	19052	0.39%	0.042%
86	16.625	2713	2718	2727	rVV3	9007	18283	0.37%	0.040%
87	16.731	2727	2738	2747	rVB4	11730	30802	0.63%	0.068%
88	17.117	2804	2810	2818	rBV2	6876	15490	0.32%	0.034%
89	17.213	2818	2828	2836	rVV2	17966	35021	0.71%	0.077%
90	17.443	2862	2871	2875	rBV	8939	16892	0.34%	0.037%
91	17.518	2875	2885	2909	rVV	1525317	3549434	72.22%	7.840%
92	17.689	2909	2917	2926	rVV	51160	96088	1.96%	0.212%
93	18.117	2991	2997	3008	rVV2	6209	13481	0.27%	0.030%
94	18.780	3108	3121	3127	rBV3	6633	21570	0.44%	0.048%
95	18.989	3155	3160	3167	rVB3	7700	15028	0.31%	0.033%
96	19.080	3171	3177	3184	rBV4	12876	21691	0.44%	0.048%
97	19.529	3255	3261	3269	rBV5	6226	14993	0.31%	0.033%
98	20.026	3348	3354	3361	rBV6	5185	10372	0.21%	0.023%
99	20.240	3387	3394	3399	rBV5	4061	11700	0.24%	0.026%
100	20.401	3411	3424	3444	rBV2	905789	2548934	51.86%	5.630%

Sum of corrected areas: 45270808

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On    :  3 Feb 2010  10:51 pm
Operator  : garyj
Sample    : t46705-4
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
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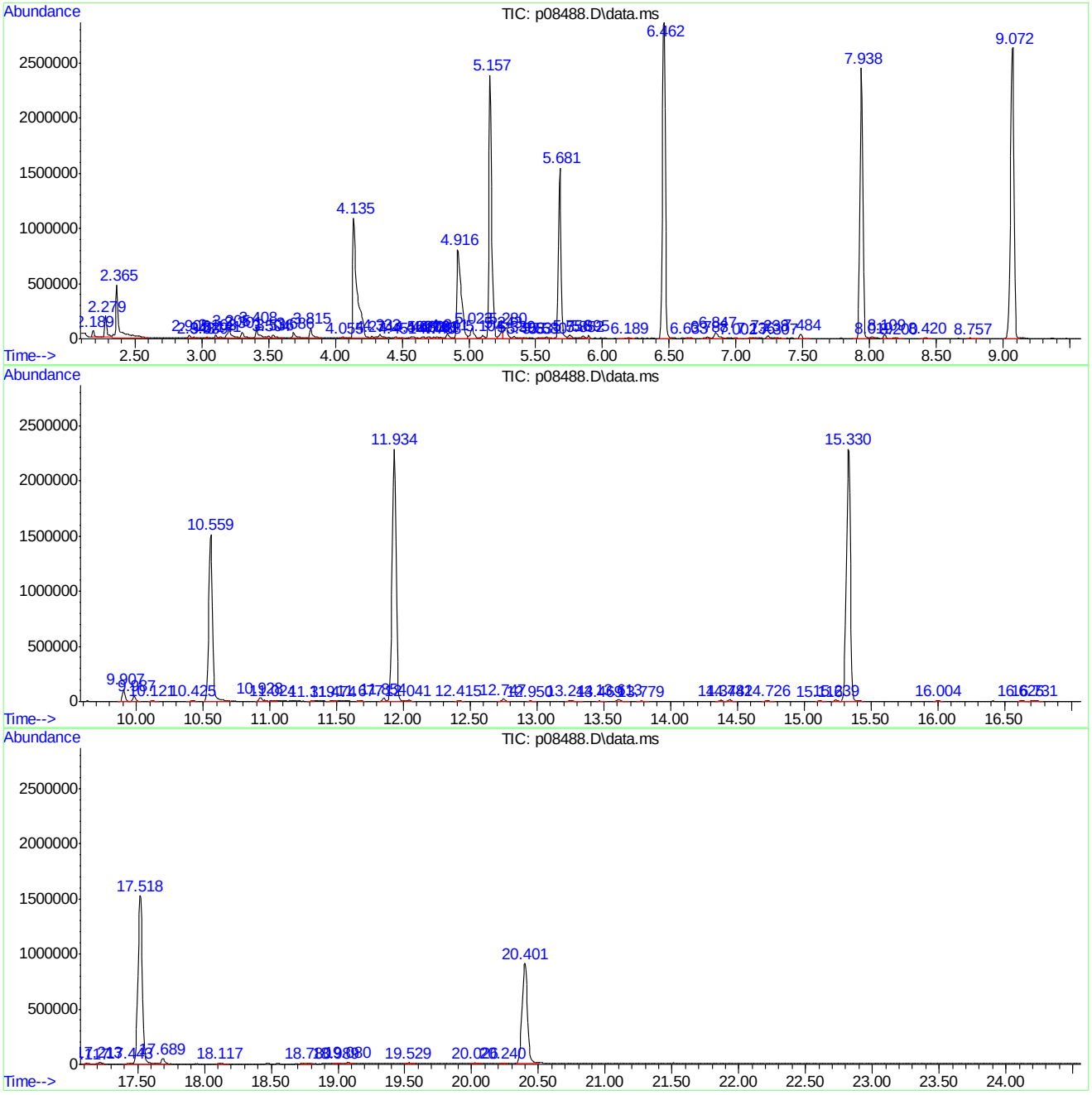

Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08488.D
Acq On    :  3 Feb 2010  10:51 pm
Operator  : garyj
Sample    : t46705-4
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

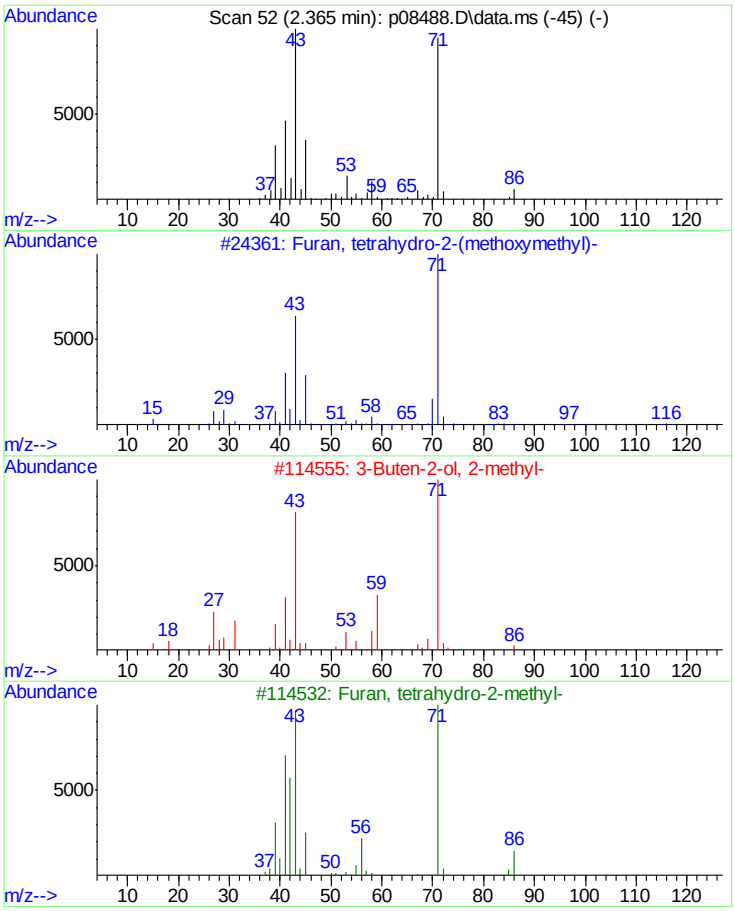
TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
```

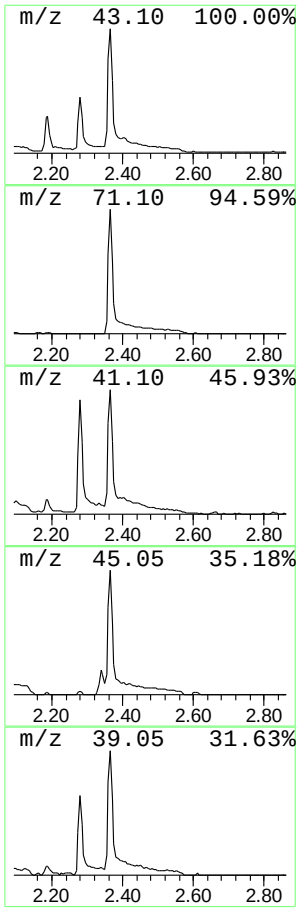
****

Peak Number 1 Furan, tetrahydro-2-(methox... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.365	9.12 ppm	770013	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	72
2	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	72
3	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	64
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	64
5	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	64





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\ep403\
  Data File : p08488.D
  Acq On    :  3 Feb 2010  10:51 pm
  Operator  : garyj
  Sample    : t46705-4
  Misc      : op13976,Ep403,1000,,,1,1,water
  ALS Vial  : 13   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\ep393.m
  Quant Title  : SW846 8270C Appendix 9

  TIC Library   : C:\DATABASE\NIST98.L
  TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Furan, tetrahyd...	2.365	9.1	ppm	770013	1	5.157	3378220	40.0

8.1.9

8

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 13:43:08 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

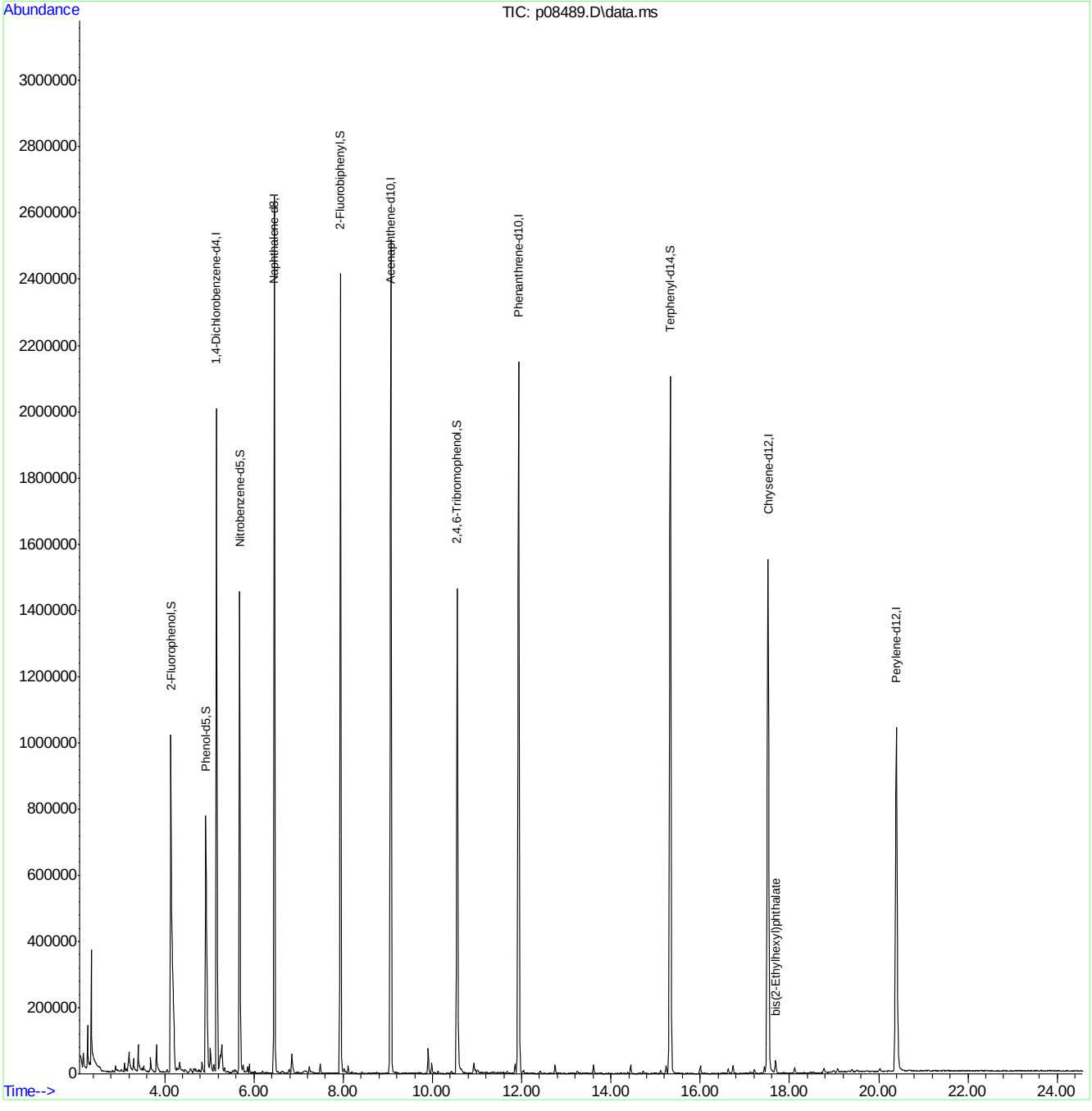
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	492423	40.00	ppm	0.00
25) Naphthalene-d8	6.457	136	1698245	40.00	ppm	0.00
46) Acenaphthene-d10	9.067	164	1070831	40.00	ppm	0.00
70) Phenanthrene-d10	11.928	188	1676889	40.00	ppm	-0.01
85) Chrysene-d12	17.523	240	1412136	40.00	ppm	0.00
94) Perylene-d12	20.401	264	1043008	40.00	ppm	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.135	112	652818	35.92	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 35.92%			
12) Phenol-d5	4.922	99	592380	27.90	ppm	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 27.90%			
26) Nitrobenzene-d5	5.681	82	642779	30.13	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 60.26%			
50) 2-Fluorobiphenyl	7.938	172	1241211	31.06	ppm	-0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 62.12%			
75) 2,4,6-Tribromophenol	10.554	330	297872	68.48	ppm	-0.05
Spiked Amount 100.000	Range 32 - 128		Recovery = 68.48%			
88) Terphenyl-d14	15.330	244	1369480	37.56	ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 75.12%			
Target Compounds						Qvalue
93) bis(2-Ethylhexyl)phtha...	17.689	149	30101	0.78	ppm	# 50

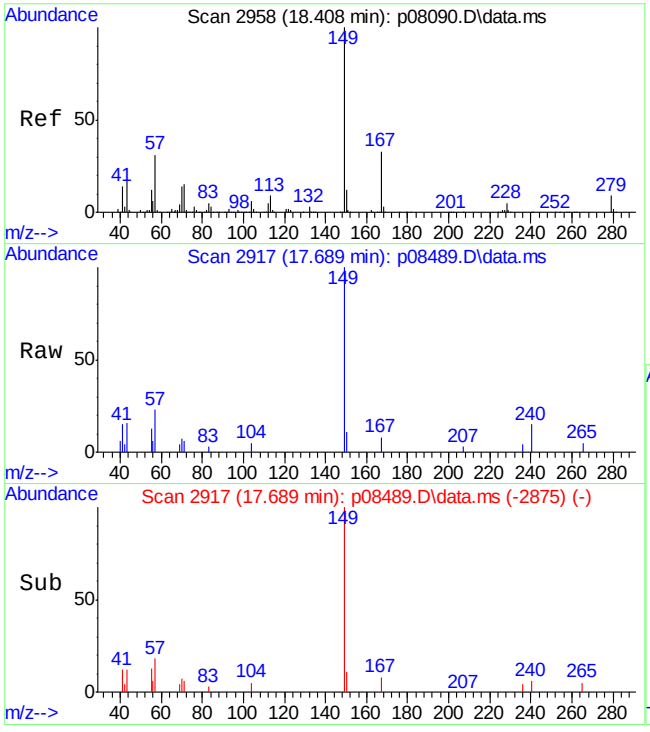
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 13:43:08 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

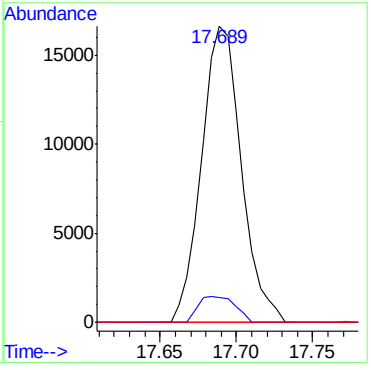




#93
bis(2-Ethylhexyl)phthalate
Concen: 0.78 ppm
RT: 17.689 min Scan# 2917
Delta R.T. 0.023 min
Lab File: p08489.D
Acq: 3 Feb 2010 11:22 pm

Tgt Ion:149 Resp: 30101

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.9	60.9#
279	0.0	0.0	37.0



8.1.10

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08489.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.178	14	17	29	rVV	45826	52833	1.17%	0.123%
2	2.269	30	34	43	rVV	130460	143624	3.19%	0.336%
3	2.354	43	50	93	rVB	365123	641109	14.23%	1.498%
4	2.900	149	152	156	rBV	18014	17944	0.40%	0.042%
5	2.937	156	159	166	rVB2	5365	8143	0.18%	0.019%
6	3.028	173	176	181	rBV6	6753	8572	0.19%	0.020%
7	3.098	186	189	192	rBV	27657	25332	0.56%	0.059%
8	3.135	193	196	200	rVB3	6122	6795	0.15%	0.016%
9	3.199	202	208	222	rBV	56441	111648	2.48%	0.261%
10	3.301	224	227	242	rVB	38314	53218	1.18%	0.124%
11	3.403	243	246	250	rBV	78702	78683	1.75%	0.184%
12	3.499	262	264	267	rVB	8308	7194	0.16%	0.017%
13	3.531	267	270	281	rVB2	18426	26058	0.58%	0.061%
14	3.686	295	299	317	rVB	46026	69548	1.54%	0.163%
15	3.815	318	323	337	rBV	82543	133719	2.97%	0.312%
16	4.050	363	367	375	rVB2	9392	13280	0.29%	0.031%
17	4.135	379	383	406	rBV	1019054	2386359	52.97%	5.577%
18	4.275	406	409	412	rBV2	8014	6914	0.15%	0.016%
19	4.328	417	419	428	rVB	24995	35243	0.78%	0.082%
20	4.446	439	441	455	rVB4	9829	22681	0.50%	0.053%
21	4.579	461	466	475	rVB3	11472	23495	0.52%	0.055%
22	4.654	475	480	485	rBV2	11593	21308	0.47%	0.050%
23	4.697	485	488	492	rVV3	11305	14486	0.32%	0.034%
24	4.740	492	496	498	rVV2	7555	10819	0.24%	0.025%
25	4.761	498	500	503	rVV2	9894	10647	0.24%	0.025%
26	4.836	510	514	523	rVB4	33205	47485	1.05%	0.111%
27	4.922	523	530	543	rBV	774547	1698373	37.70%	3.969%
28	5.023	543	549	560	rVV	73626	142169	3.16%	0.332%
29	5.104	560	564	568	rVV	23177	31861	0.71%	0.074%
30	5.157	568	574	584	rVV	2003825	3072391	68.19%	7.180%
31	5.243	584	590	592	rVV3	52986	84015	1.86%	0.196%
32	5.280	592	597	605	rVV3	82277	160462	3.56%	0.375%
33	5.339	605	608	618	rVB3	14379	19499	0.43%	0.046%
34	5.408	618	621	627	rVB2	4541	7242	0.16%	0.017%

ep393.m Thu Feb 04 13:43:44 2010 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

35	5.531	638	644	647	rBV4	7295	10445	0.23%	0.024%
36	5.580	650	653	662	rVB4	10867	20207	0.45%	0.047%
37	5.681	663	672	682	rBV	1453123	1980349	43.95%	4.628%
38	5.756	682	686	692	rVB3	21716	34960	0.78%	0.082%
39	5.852	698	704	708	rVB	18020	23867	0.53%	0.056%
40	5.895	708	712	717	rVB	27446	24610	0.55%	0.058%
41	6.018	731	735	741	rVB2	6185	7319	0.16%	0.017%
42	6.189	755	767	776	rBV2	5616	10865	0.24%	0.025%
43	6.457	810	817	830	rBV	2649336	3792212	84.17%	8.862%
44	6.783	870	878	883	rVV2	13427	21728	0.48%	0.051%
45	6.847	885	890	903	rVV	59657	116143	2.58%	0.271%
46	6.943	904	908	912	rVV3	3939	6484	0.14%	0.015%
47	7.131	930	943	947	rBV2	7367	21238	0.47%	0.050%
48	7.238	959	963	967	rBV2	19770	23336	0.52%	0.055%
49	7.484	1004	1009	1014	rBV	29030	35204	0.78%	0.082%
50	7.938	1083	1094	1105	rBV	2416059	3600417	79.91%	8.414%
51	8.019	1105	1109	1113	rVV2	14014	22917	0.51%	0.054%
52	8.051	1113	1115	1121	rVV2	6627	9509	0.21%	0.022%
53	8.109	1121	1126	1132	rVV	24745	32034	0.71%	0.075%
54	8.195	1141	1142	1150	rVB3	4903	6391	0.14%	0.015%
55	8.420	1178	1184	1189	rBV	5025	6596	0.15%	0.015%
56	9.067	1294	1305	1317	rBV	2519527	4505459	100.00%	10.529%
57	9.907	1454	1462	1468	rBV	77827	109101	2.42%	0.255%
58	9.982	1470	1476	1483	rVV	31221	44245	0.98%	0.103%
59	10.121	1497	1502	1510	rBV4	7031	9969	0.22%	0.023%
60	10.425	1550	1559	1563	rBV3	6120	11666	0.26%	0.027%
61	10.554	1573	1583	1612	rBV	1465499	2859739	63.47%	6.683%
62	10.928	1645	1653	1657	rBV	32927	51129	1.13%	0.119%
63	11.008	1664	1668	1677	rBV5	7176	15166	0.34%	0.035%
64	11.105	1683	1686	1693	rVB4	3854	7327	0.16%	0.017%
65	11.351	1718	1732	1735	rBV5	4452	13803	0.31%	0.032%
66	11.383	1736	1738	1745	rVB4	4998	7925	0.18%	0.019%
67	11.458	1745	1752	1760	rBV4	4717	12117	0.27%	0.028%
68	11.522	1760	1764	1769	rVV4	3669	7576	0.17%	0.018%
69	11.581	1771	1775	1787	rVB5	4516	10950	0.24%	0.026%
70	11.677	1787	1793	1799	rBV4	7736	14529	0.32%	0.034%
71	11.854	1819	1826	1831	rBV	30750	47789	1.06%	0.112%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	11.928	1831	1840	1853	rVV2	2148905	4376285	97.13%	10.227%
73	12.035	1853	1860	1869	rVB3	8563	19008	0.42%	0.044%
74	12.415	1926	1931	1939	rBV3	8309	13413	0.30%	0.031%
75	12.747	1985	1993	2002	rBV	28137	42254	0.94%	0.099%
76	13.244	2080	2086	2092	rBV2	6723	12594	0.28%	0.029%
77	13.469	2123	2128	2136	rVB3	3428	6439	0.14%	0.015%
78	13.608	2147	2154	2167	rBV	26585	42777	0.95%	0.100%
79	14.373	2292	2297	2303	rBV	4796	7874	0.17%	0.018%
80	14.442	2303	2310	2318	rBV2	25572	38896	0.86%	0.091%
81	14.720	2357	2362	2371	rBV4	8262	14800	0.33%	0.035%
82	15.111	2429	2435	2443	rVB	9289	16508	0.37%	0.039%
83	15.239	2451	2459	2465	rBV	24895	39385	0.87%	0.092%
84	15.330	2465	2476	2502	rBV2	2106069	4403655	97.74%	10.291%
85	16.004	2593	2602	2610	rVB	23502	36664	0.81%	0.086%
86	16.625	2711	2718	2726	rBV4	15039	25493	0.57%	0.060%
87	16.737	2726	2739	2746	rBV2	23753	44999	1.00%	0.105%
88	17.117	2806	2810	2817	rVV2	3563	6536	0.15%	0.015%
89	17.213	2817	2828	2840	rVB	13621	29408	0.65%	0.069%
90	17.443	2862	2871	2875	rBV	21350	36481	0.81%	0.085%
91	17.523	2875	2886	2909	rVV	1553055	3709104	82.32%	8.668%
92	17.689	2909	2917	2926	rVB2	38361	71391	1.58%	0.167%
93	18.117	2987	2997	3004	rBV	18146	33255	0.74%	0.078%
94	18.775	3114	3120	3128	rVV	13372	24998	0.55%	0.058%
95	18.989	3153	3160	3170	rVB4	6388	17466	0.39%	0.041%
96	19.074	3170	3176	3183	rBV2	13923	26696	0.59%	0.062%
97	19.400	3231	3237	3243	rVB4	8356	15786	0.35%	0.037%
98	19.518	3255	3259	3268	rVB6	4811	10628	0.24%	0.025%
99	20.021	3347	3353	3359	rBV4	9115	17846	0.40%	0.042%
100	20.401	3410	3424	3457	rBV	1039041	2922060	64.86%	6.829%

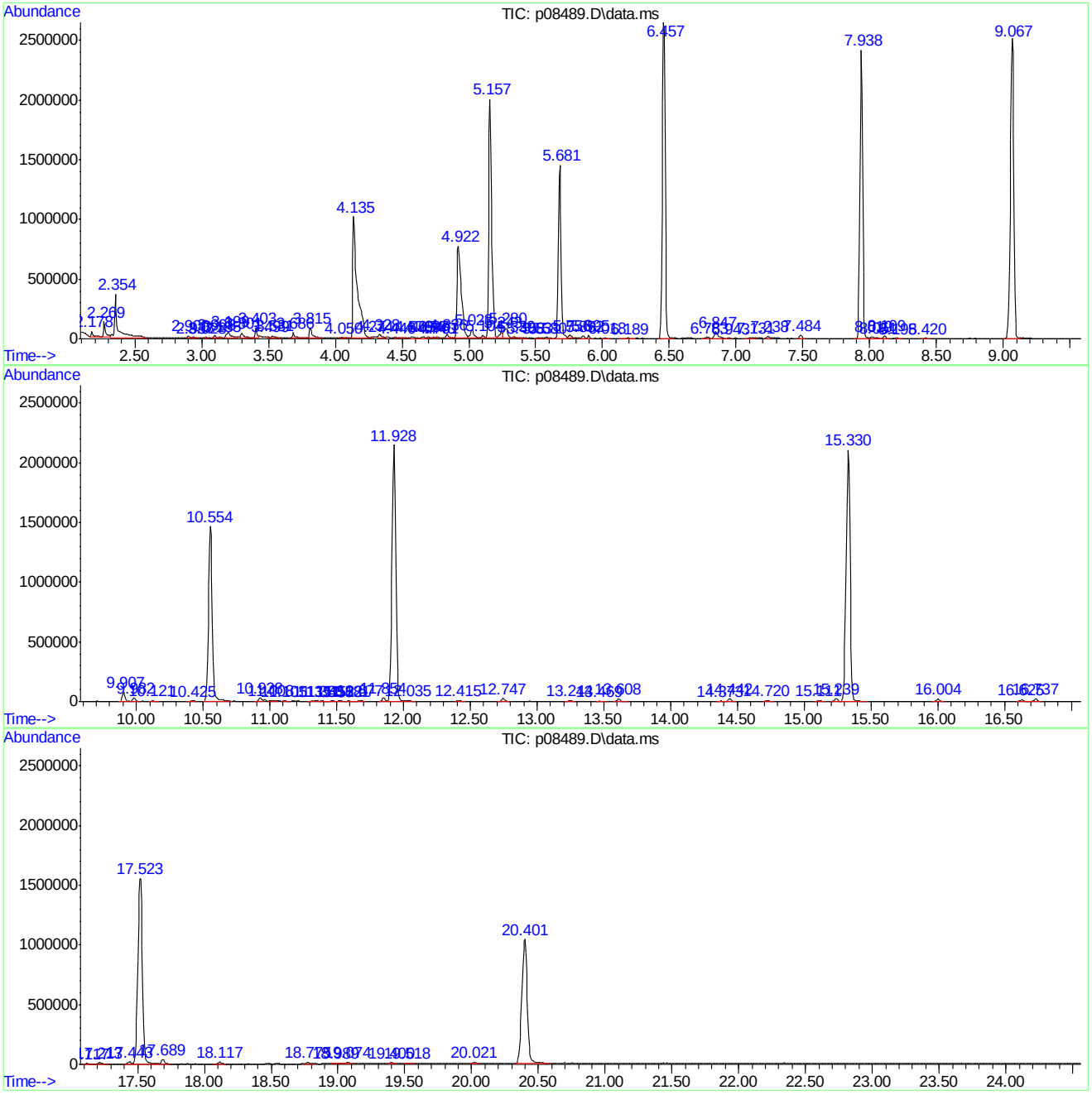
Sum of corrected areas: 42791169

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08489.D
Acq On : 3 Feb 2010 11:22 pm
Operator : garyj
Sample : t46705-5
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

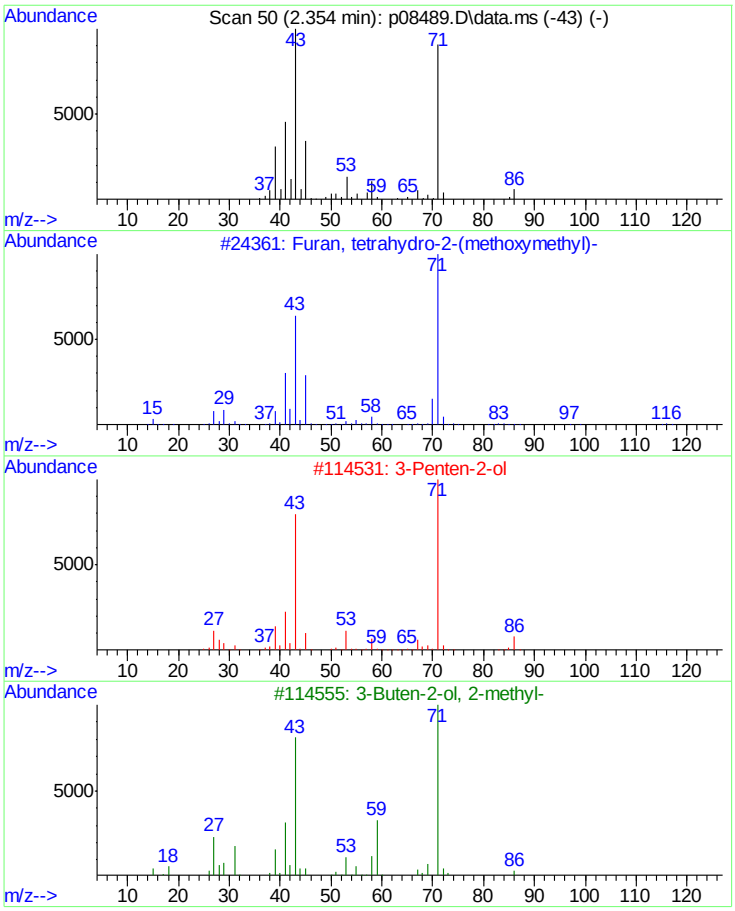
TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

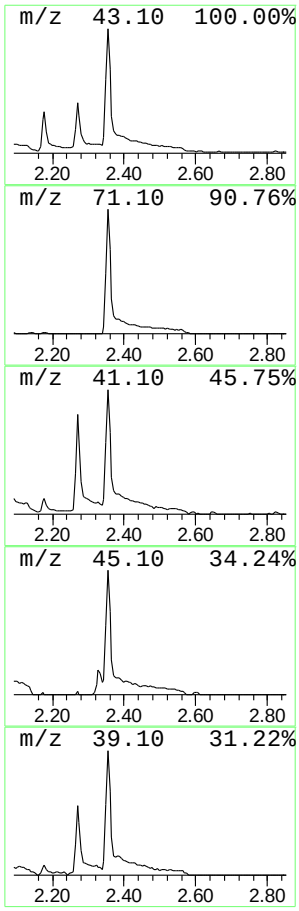
****

Peak Number 1 Furan, tetrahydro-2-(methox... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.354	8.35 ppm	641109	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	86
2	3-Penten-2-ol	86	C5H10O	001569-50-2	72
3	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	72
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	59
5	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	59





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\ep403\
  Data File : p08489.D
  Acq On    :  3 Feb 2010  11:22 pm
  Operator  : garyj
  Sample    : t46705-5
  Misc      : op13976,Ep403,1000,,,1,1,water
  ALS Vial  : 14   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\ep393.m
  Quant Title  : SW846 8270C Appendix 9

  TIC Library   : C:\DATABASE\NIST98.L
  TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Furan, tetrahyd...	2.354	8.3	ppm	641109	1	5.157	3072390	40.0

8.1.11

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	415184	40.00	ppm	0.01
25) Naphthalene-d8	6.483	136	1233577	40.00	ppm	0.02
46) Acenaphthene-d10	9.099	164	969496	40.00	ppm	0.03
70) Phenanthrene-d10	12.035	188	1146256m	40.00	ppm	0.10
85) Chrysene-d12	17.625	240	428702m	40.00	ppm	0.10
94) Perylene-d12	20.454	264	201102	40.00	ppm	0.06
System Monitoring Compounds						
10) 2-Fluorophenol	4.157	112	9602	0.63	ppm	0.01
Spiked Amount 100.000	Range 26 - 124		Recovery = 0.63%#			
12) Phenol-d5	4.932	99	12358	0.69	ppm	0.03
Spiked Amount 100.000	Range 19 - 106		Recovery = 0.69%#			
26) Nitrobenzene-d5	5.686	82	6191	0.40	ppm	-0.02
Spiked Amount 50.000	Range 18 - 104		Recovery = 0.80%#			
50) 2-Fluorobiphenyl	7.949	172	15834	0.46	ppm	0.00
Spiked Amount 50.000	Range 21 - 114		Recovery = 0.92%#			
75) 2,4,6-Tribromophenol	10.612	330	1090m	0.37	ppm	0.01
Spiked Amount 100.000	Range 18 - 129		Recovery = 0.37%#			
88) Terphenyl-d14	15.426	244	5104m	0.46	ppm	0.07
Spiked Amount 50.000	Range 24 - 149		Recovery = 0.92%#			
Target Compounds						Qvalue
13) Phenol	4.943	94	324407	16.07	ppm	79
20) 2-Methylphenol	5.440	108	106418	6.35	ppm	97
24) 3&4-Methylphenol	5.585	108	350513	21.45	ppm #	50
30) 2,4-Dimethylphenol	6.114	107	153156	11.42	ppm	90
35) Naphthalene	6.531	128	17997979	519.77	ppm	100
43) 2-Methylnaphthalene	7.419	142	5073771	215.69	ppm	98
44) 1-Methylnaphthalene	7.564	142	3246623	141.13	ppm	99
51) 1,1'-Biphenyl	8.115	154	2085448	59.49	ppm	100
54) Acenaphthylene	8.842	152	2209744	48.13	ppm	96
58) Acenaphthene	9.200	153	10605628	358.45	ppm	99
61) Dibenzofuran	9.500	168	9262395	246.02	ppm	99
66) Fluorene	10.174	166	12714636	426.76	ppm	99
80) Phenanthrene	12.180	178	57782389m	1893.92	ppm	
81) Anthracene	12.265	178	16638179m	506.75	ppm	
82) Carbazole	12.549	167	6147019	207.50	ppm	99
84) Fluoranthene	14.645	202	34536654m	1020.77	ppm	
87) Pyrene	15.132	202	31601768m	1748.21	ppm	
91) Benzo[a]anthracene	17.587	228	9903732	752.08	ppm	94
92) Chrysene	17.705	228	10217777	819.79	ppm	97
96) Benzo[b]fluoranthene	19.737	252	3996112m	536.65	ppm	
97) Benzo[k]fluoranthene	19.759	252	1547684m	233.73	ppm	
98) Benzo[a]pyrene	20.363	252	2358430	379.14	ppm	97
99) Indeno[1,2,3-cd]pyrene	22.930	276	1295642	261.89	ppm	97
100) Dibenz[a,h]anthracene	22.946	278	274915	66.15	ppm	94
101) Benzo[g,h,i]perylene	23.658	276	837895	210.05	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

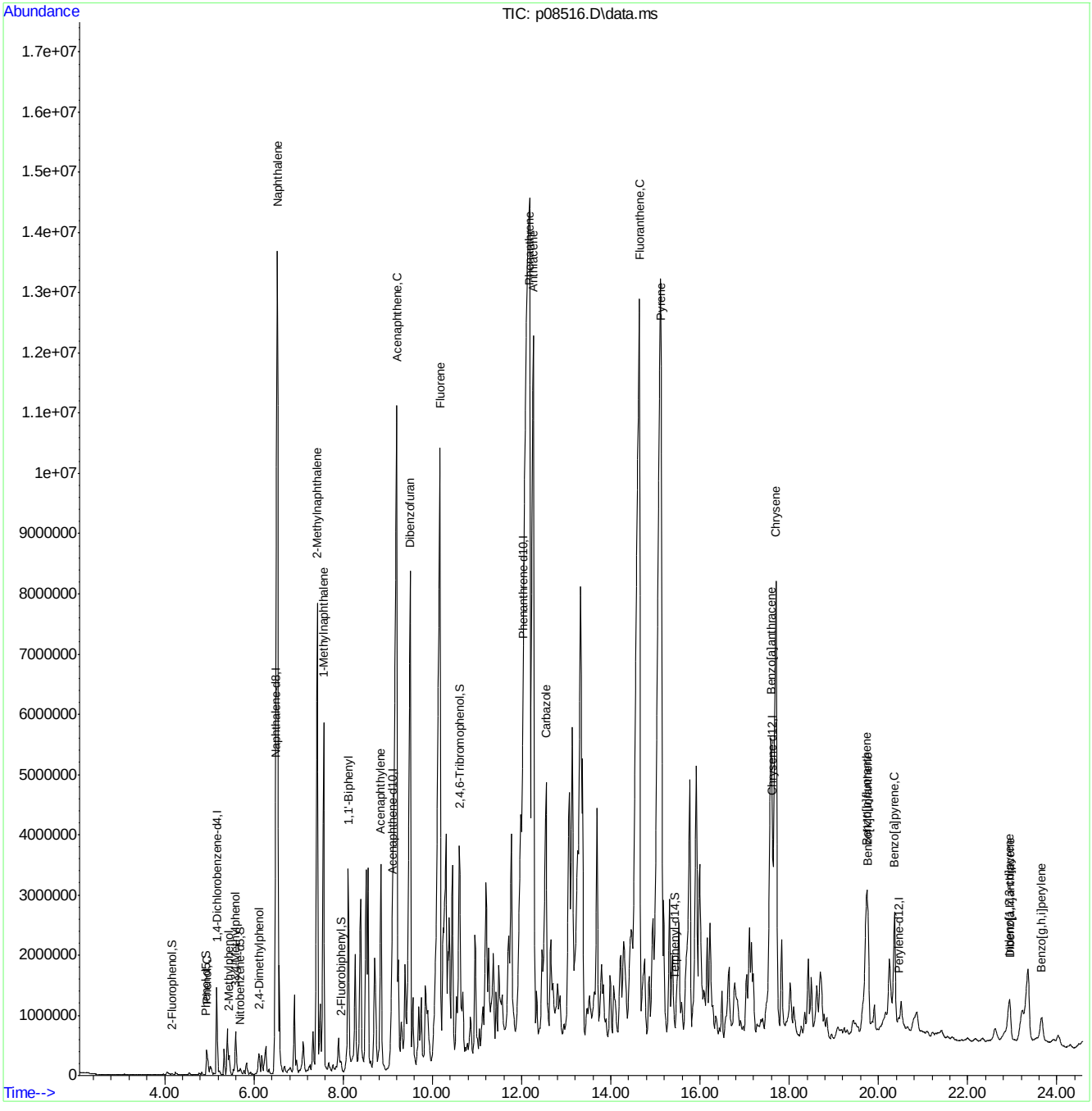
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

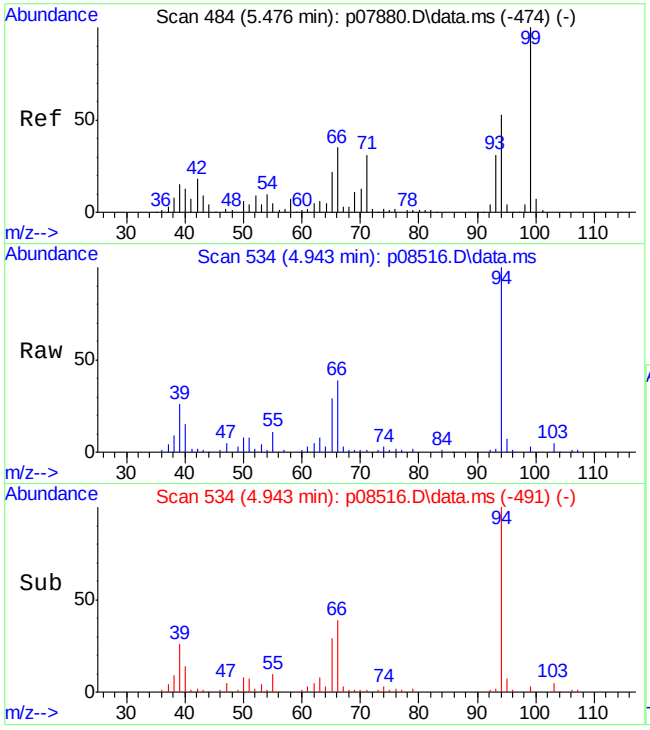
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

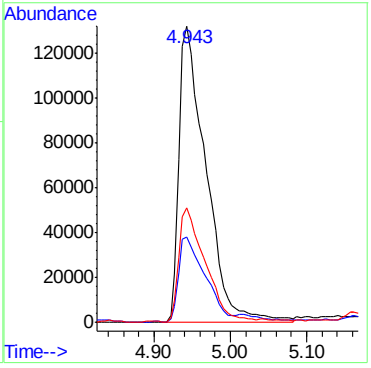


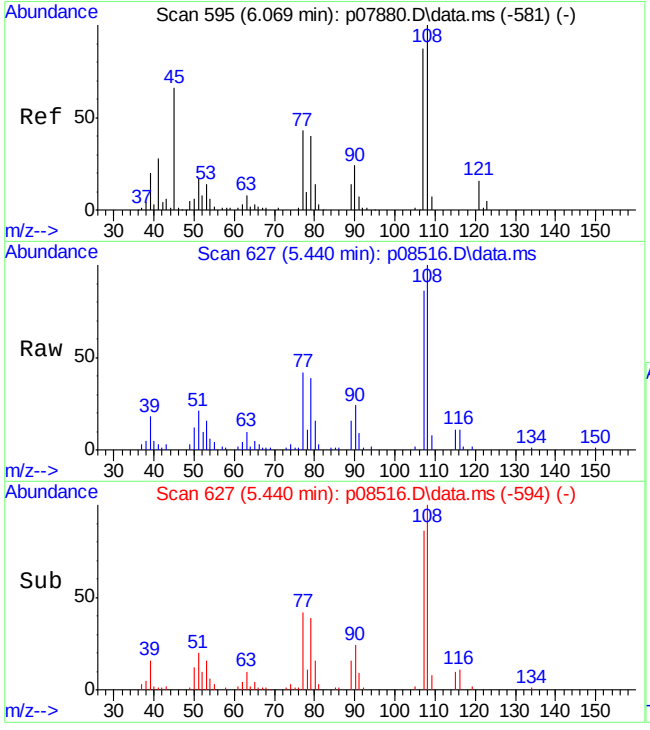


#13
Phenol
Concen: 16.07 ppm
RT: 4.943 min Scan# 534
Delta R.T. 0.031 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion: 94 Resp: 324407

Ion	Ratio	Lower	Upper
94	100		
65	28.2	11.3	71.3
66	38.8	23.8	83.8

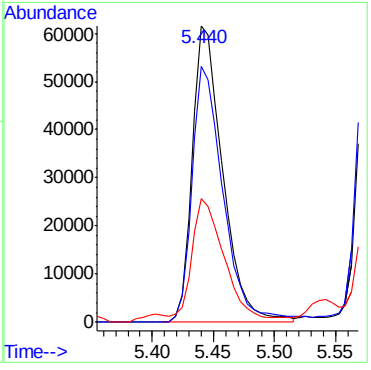


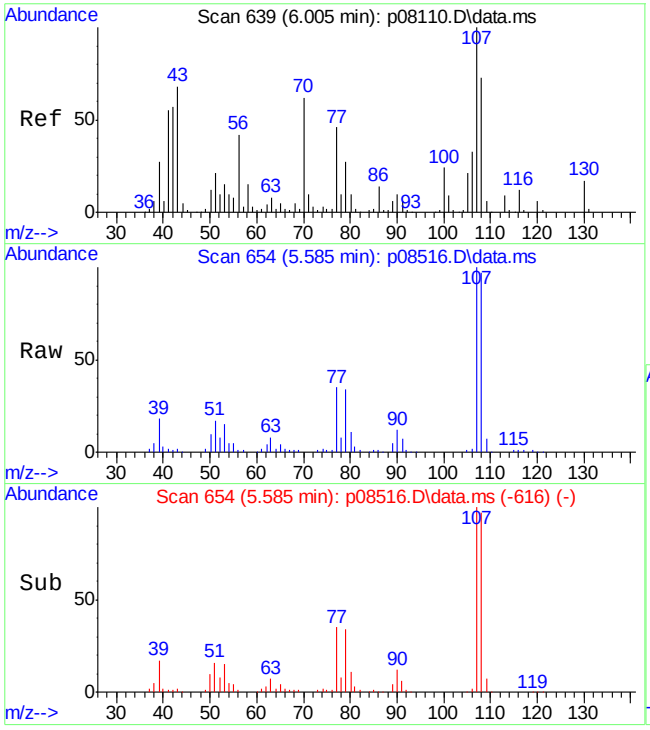


#20
2-Methylphenol
Concen: 6.35 ppm
RT: 5.440 min Scan# 627
Delta R.T. -0.024 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:108 Resp: 106418

Ion	Ratio	Lower	Upper
108	100		
107	88.9	57.6	117.6
77	40.5	14.8	74.8

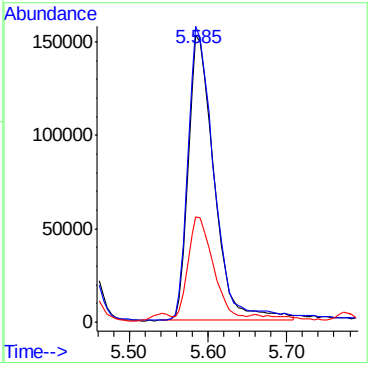


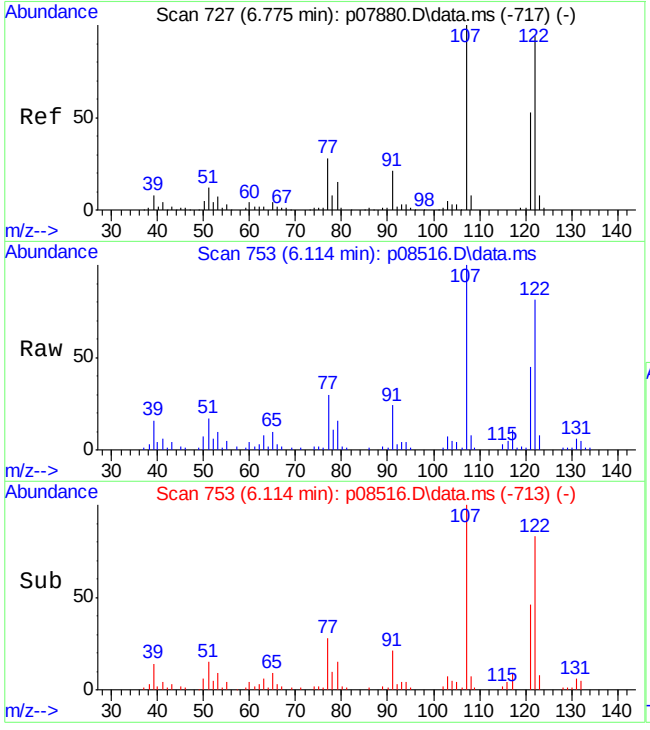


#24
3&4-Methylphenol
Concen: 21.45 ppm
RT: 5.585 min Scan# 654
Delta R.T. 0.001 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:108 Resp: 350513

Ion	Ratio	Lower	Upper
108	100		
107	106.1	153.6	213.6#
77	32.8	30.6	90.6

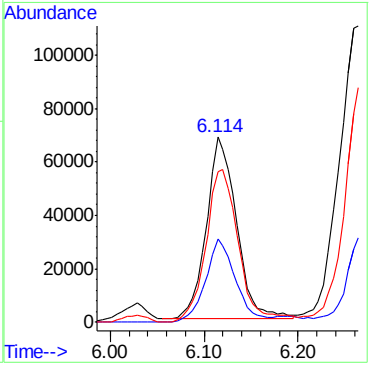


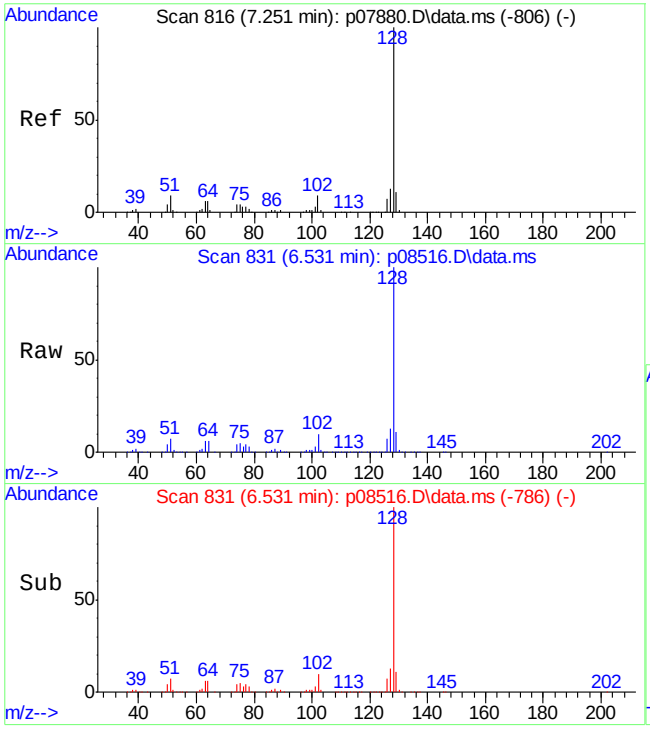


#30
2,4-Dimethylphenol
Concen: 11.42 ppm
RT: 6.114 min Scan# 753
Delta R.T. 0.012 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:107 Resp: 153156

Ion	Ratio	Lower	Upper
107	100		
121	45.3	16.3	76.3
122	91.1	48.1	108.1

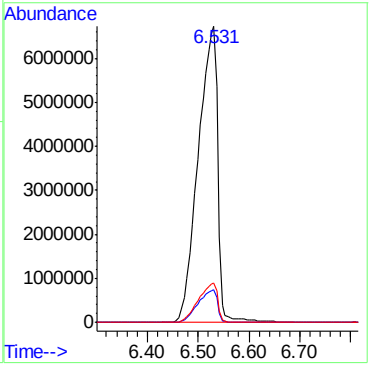


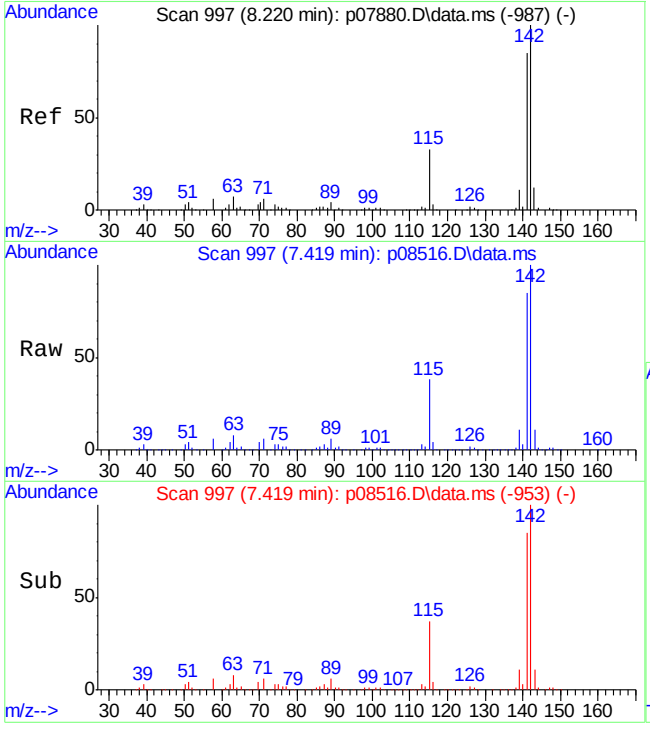


#35
Naphthalene
Concen: 519.77 ppm
RT: 6.531 min Scan# 831
Delta R.T. 0.043 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:128 Resp:17997979

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	40.9
127	13.1	0.0	43.2

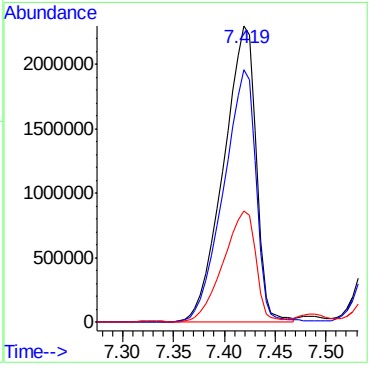


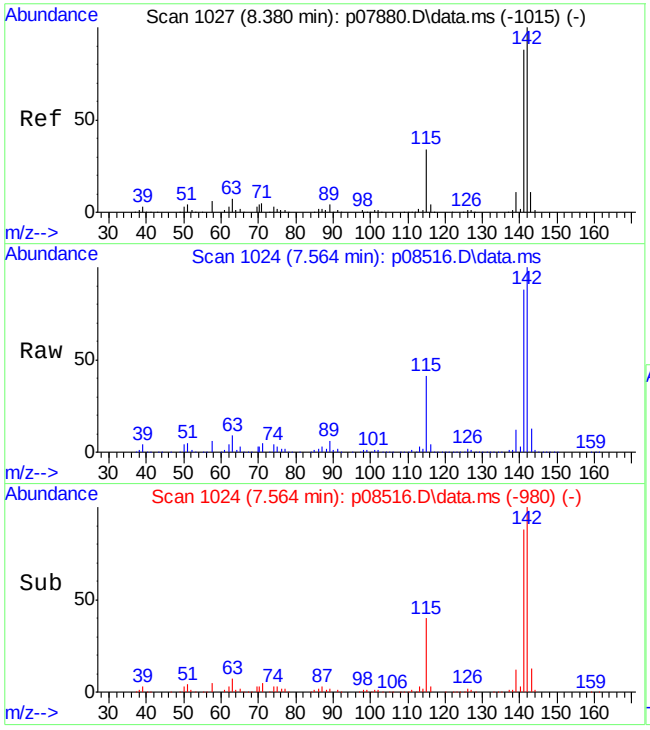


#43
2-Methylnaphthalene
Concen: 215.69 ppm
RT: 7.419 min Scan# 997
Delta R.T. 0.034 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:142 Resp: 5073771

Ion	Ratio	Lower	Upper
142	100		
141	84.9	56.1	116.1
115	37.2	9.4	69.4

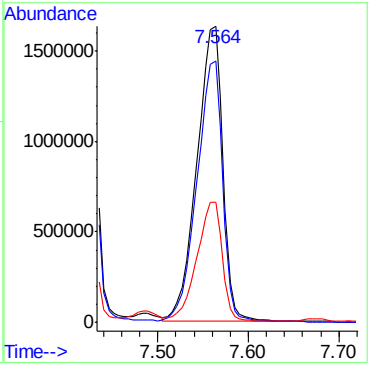


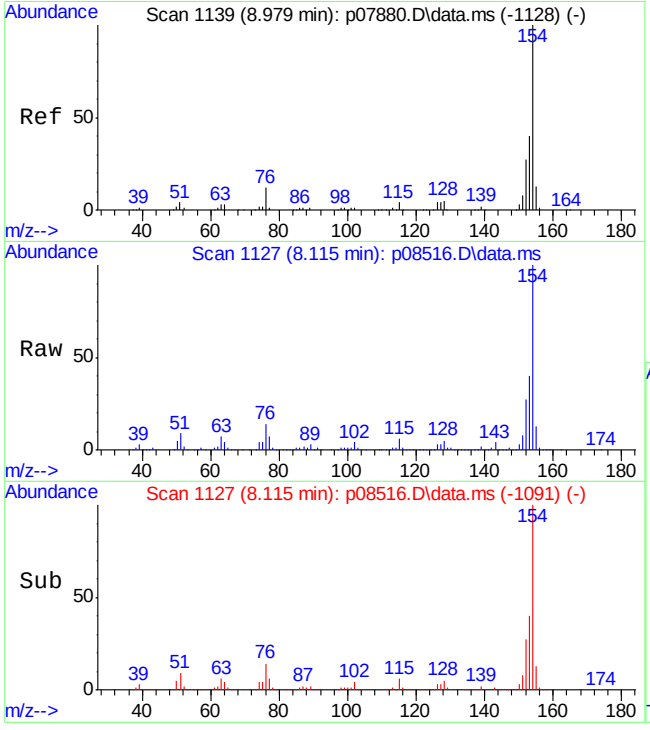


#44
1-Methylnaphthalene
Concen: 141.13 ppm
RT: 7.564 min Scan# 1024
Delta R.T. 0.037 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:142 Resp: 3246623

Ion	Ratio	Lower	Upper
142	100		
141	88.8	59.1	119.1
115	39.6	10.7	70.7

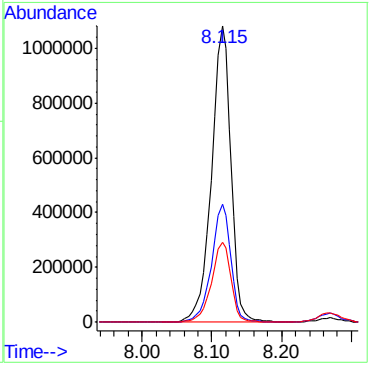


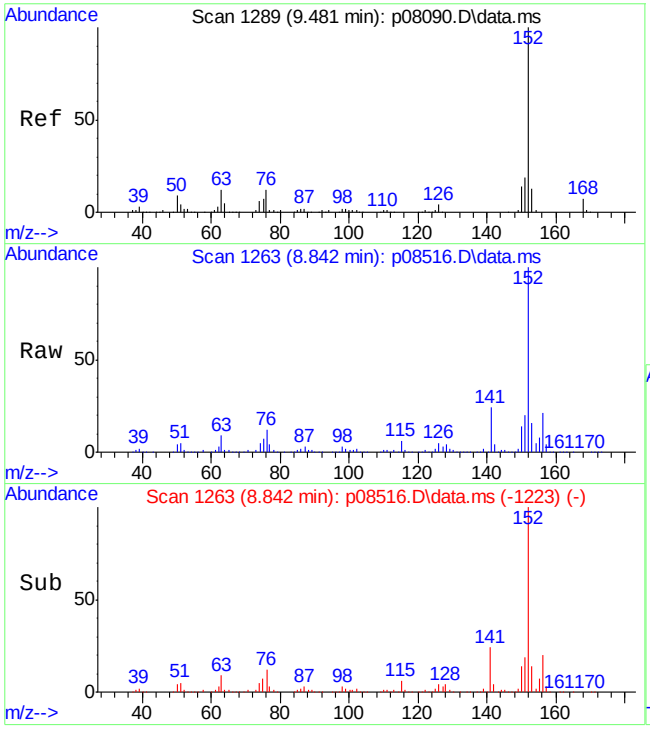


#51
1,1'-Biphenyl
Concen: 59.49 ppm
RT: 8.115 min Scan# 1127
Delta R.T. -0.006 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:154 Resp: 2085448

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
152	27.1	7.5	47.5

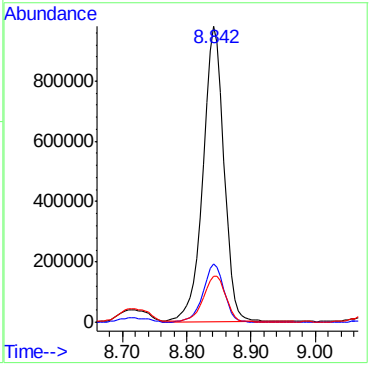


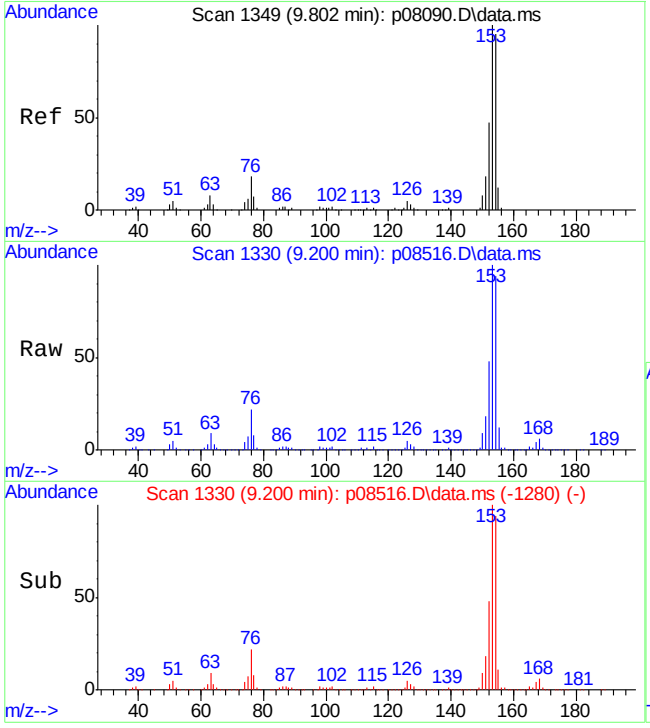


#54
Acenaphthylene
Concen: 48.13 ppm
RT: 8.842 min Scan# 1263
Delta R.T. 0.016 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:152 Resp: 2209744

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	49.7
153	16.7	0.0	43.0

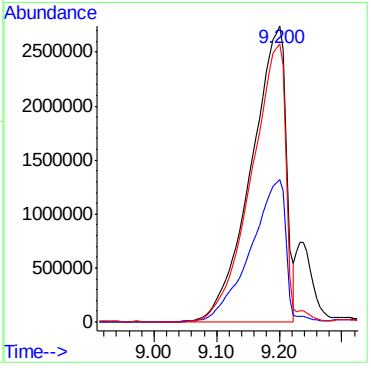


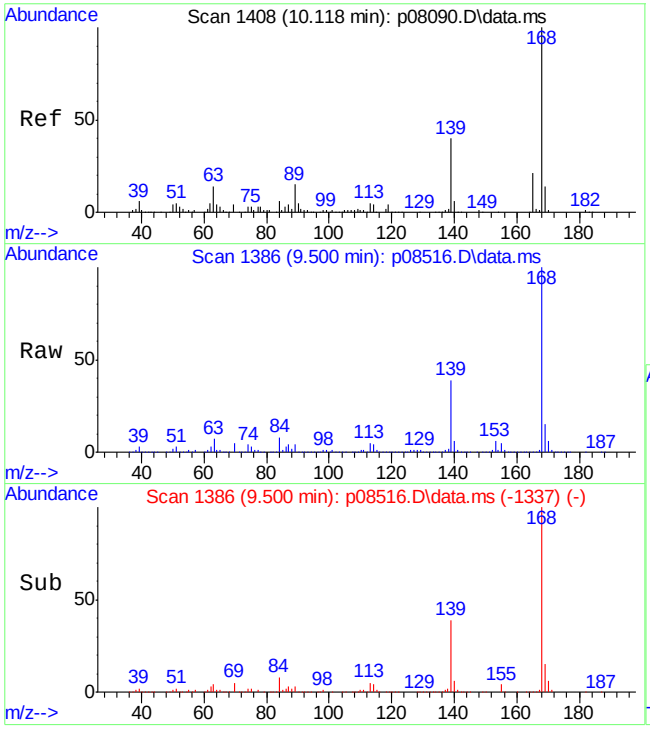


#58
Acenaphthene
Concen: 358.45 ppm
RT: 9.200 min Scan# 1330
Delta R.T. 0.065 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:153 Resp:10605628

Ion	Ratio	Lower	Upper
153	100		
152	48.5	17.6	77.6
154	92.8	64.0	124.0

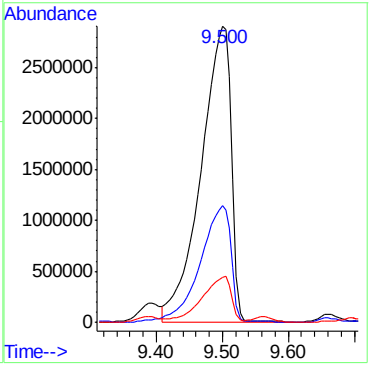


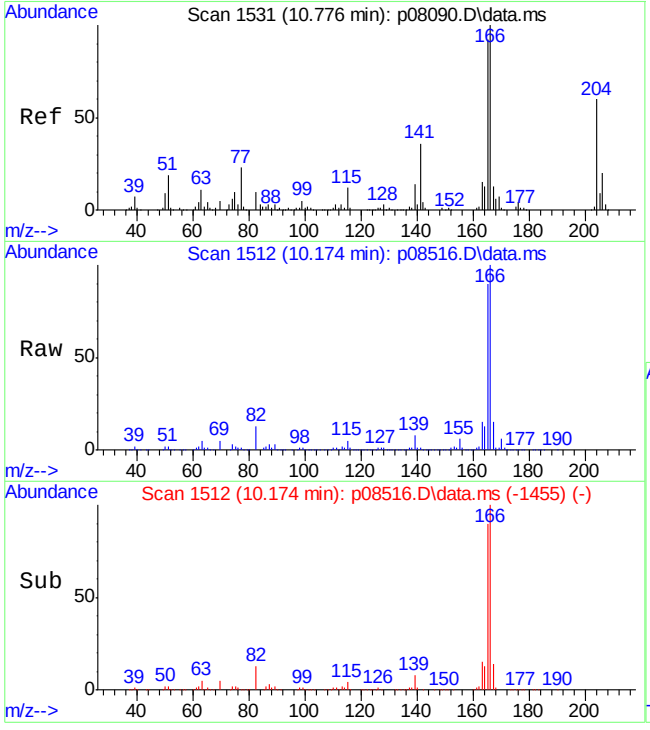


#61
Dibenzofuran
Concen: 246.02 ppm
RT: 9.500 min Scan# 1386
Delta R.T. 0.061 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:168 Resp: 9262395

Ion	Ratio	Lower	Upper
168	100		
139	39.9	10.6	70.6
169	15.0	0.0	44.9

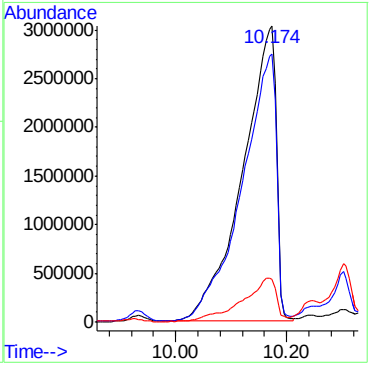


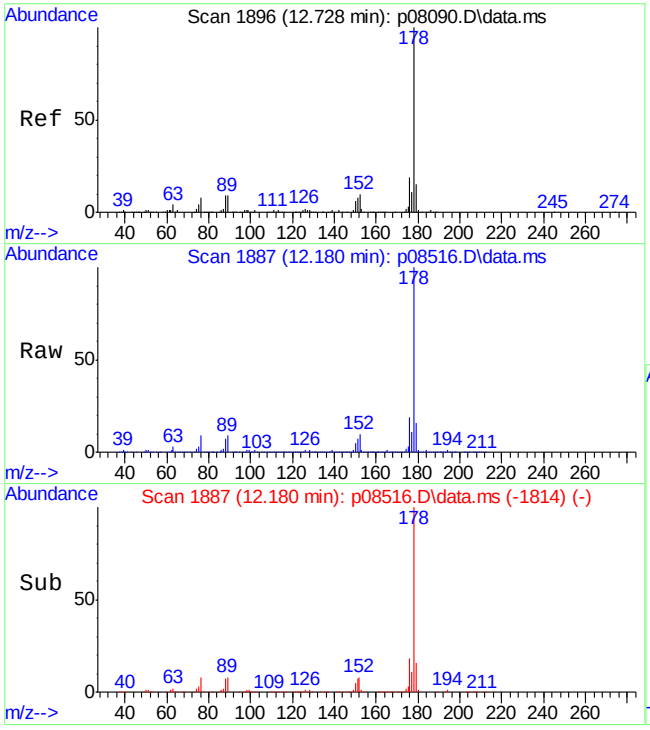


#66
Fluorene
Concen: 426.76 ppm
RT: 10.174 min Scan# 1512
Delta R.T. 0.103 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:166 Resp:12714636

Ion	Ratio	Lower	Upper
166	100		
165	92.6	63.6	123.6
167	15.0	0.0	43.7

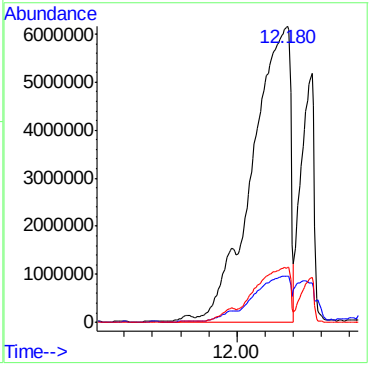


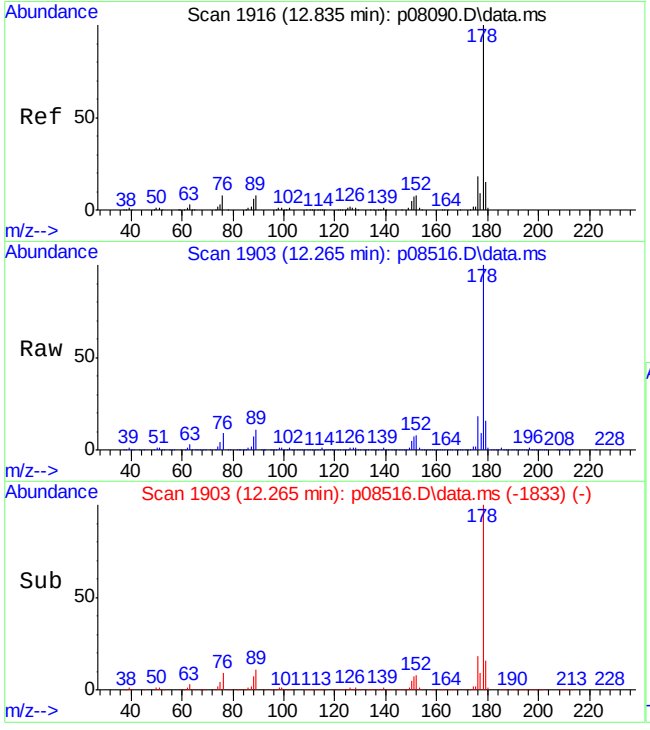


#80
Phenanthrene
Concen: 1893.92 ppm m
RT: 12.180 min Scan# 1887
Delta R.T. 0.188 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:178 Resp:57782389

Ion	Ratio	Lower	Upper
178	100		
179	1.4	0.0	45.3
176	1.7	0.0	49.4

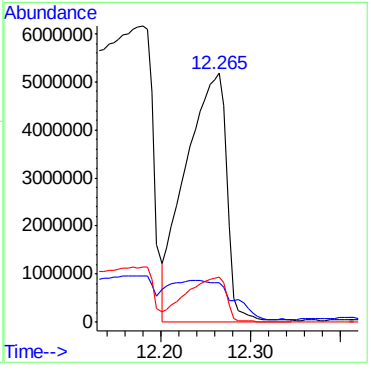


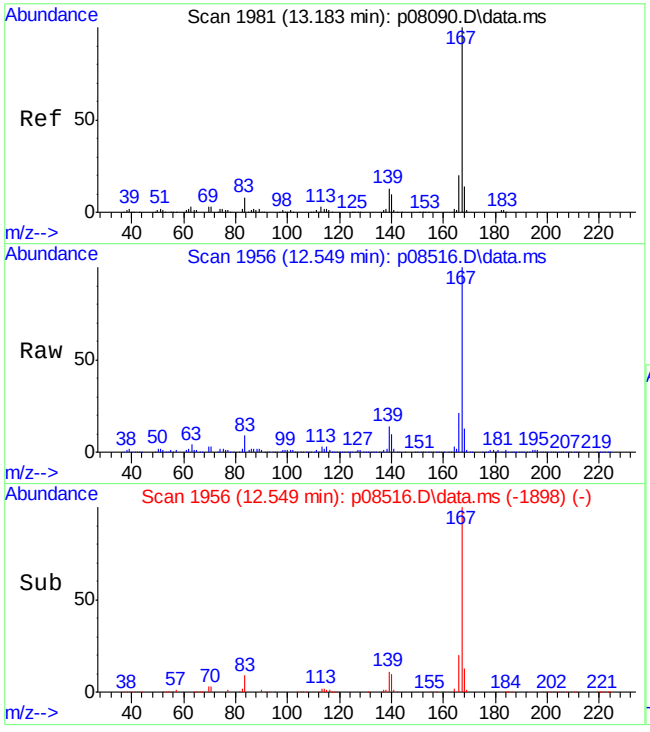


#81
Anthracene
Concen: 506.75 ppm m
RT: 12.265 min Scan# 1903
Delta R.T. 0.174 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:178 Resp:16638179

Ion	Ratio	Lower	Upper
178	100		
179	40.7	0.0	45.0
176	48.9	0.0	48.4#

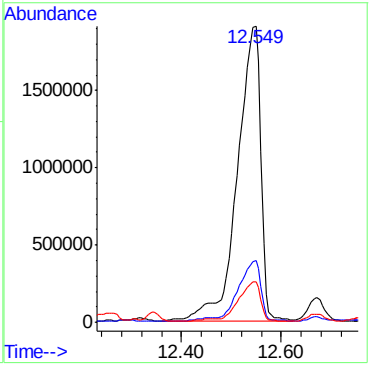


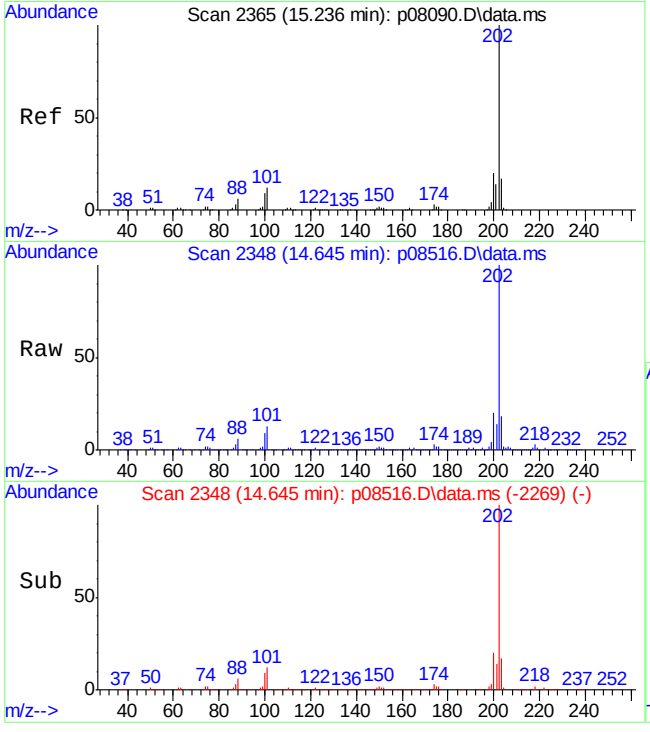


#82
Carbazole
Concen: 207.50 ppm
RT: 12.549 min Scan# 1956
Delta R.T. 0.111 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:167 Resp: 6147019

Ion	Ratio	Lower	Upper
167	100		
166	20.9	0.0	50.0
139	13.4	0.0	43.3

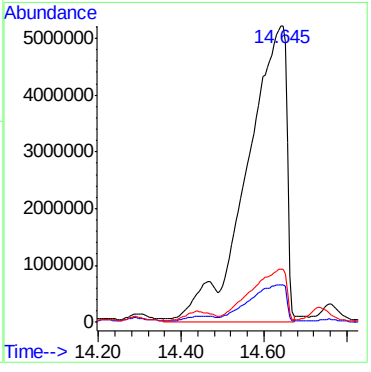


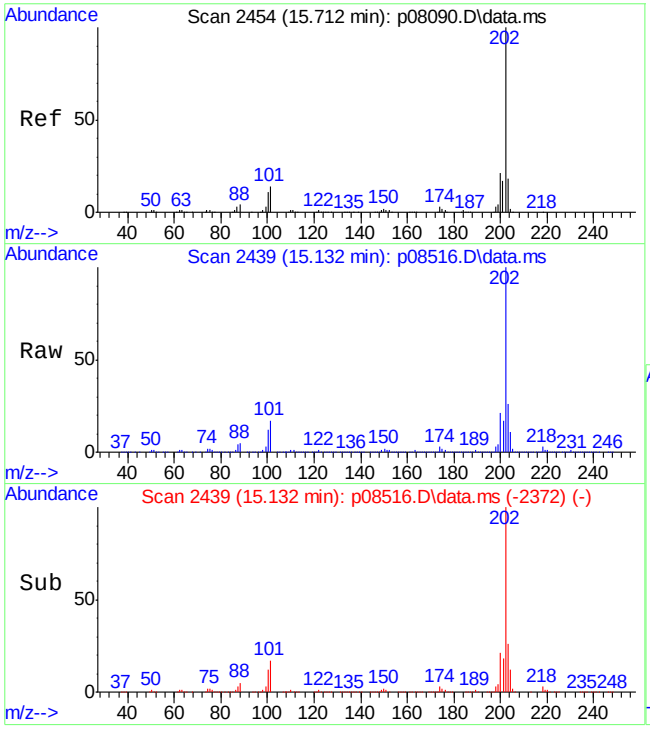


#84
Fluoranthene
Concen: 1020.77 ppm m
RT: 14.645 min Scan# 2348
Delta R.T. 0.223 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:202 Resp:34536654

Ion	Ratio	Lower	Upper
202	100		
101	1.1	0.0	43.1
203	0.0	0.0	47.4

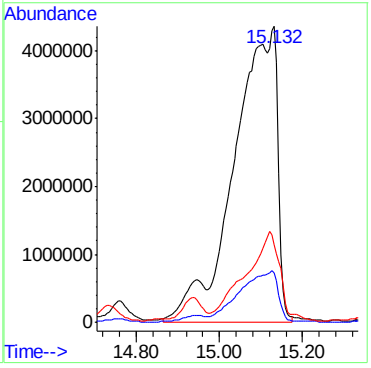


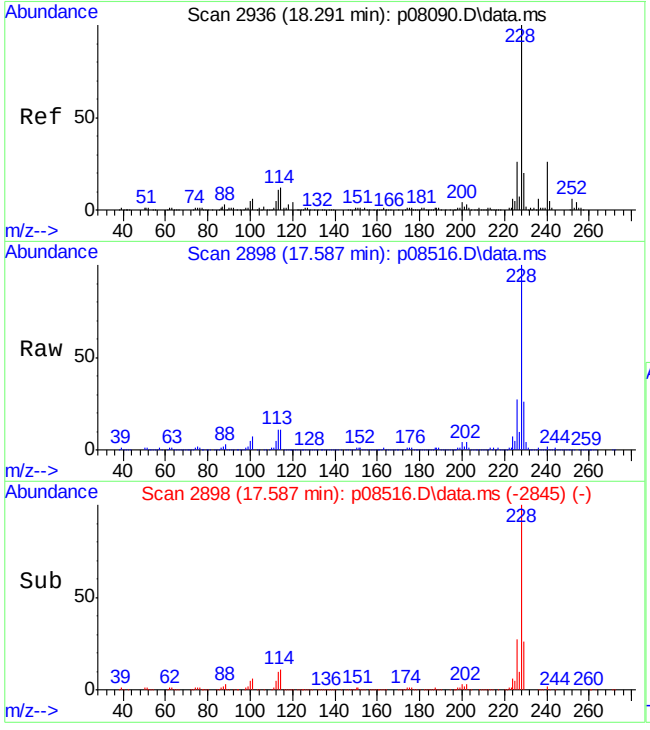


#87
Pyrene
Concen: 1748.21 ppm m
RT: 15.132 min Scan# 2439
Delta R.T. 0.159 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:202 Resp:31601768

Ion	Ratio	Lower	Upper
202	100		
101	15.1	0.0	45.7
203	23.9	0.0	47.8

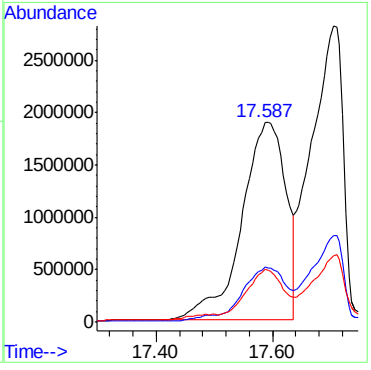


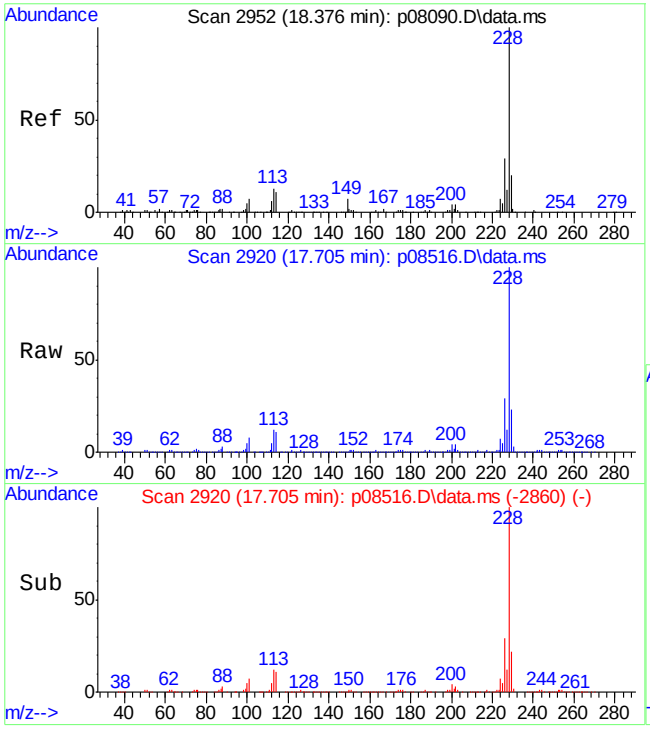


#91
Benzo[a]anthracene
Concen: 752.08 ppm
RT: 17.587 min Scan# 2898
Delta R.T. 0.085 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:228 Resp: 9903732

Ion	Ratio	Lower	Upper
228	100		
226	27.4	0.0	55.8
229	23.4	0.0	49.5

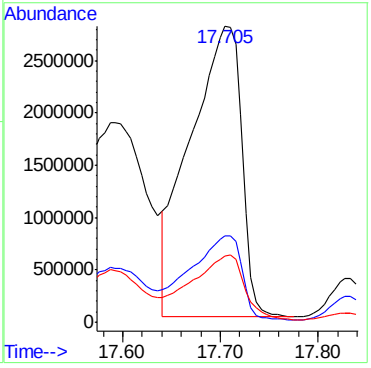


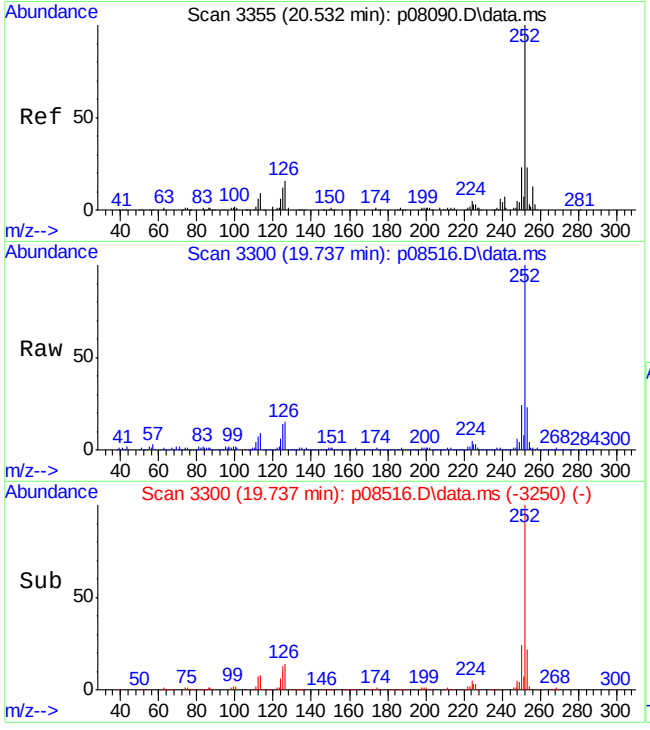


#92
Chrysene
Concen: 819.79 ppm
RT: 17.705 min Scan# 2920
Delta R.T. 0.123 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:228 Resp:10217777

Ion	Ratio	Lower	Upper
228	100		
226	28.8	0.0	58.9
229	22.7	0.0	49.6

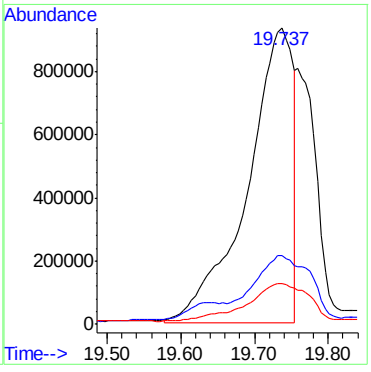


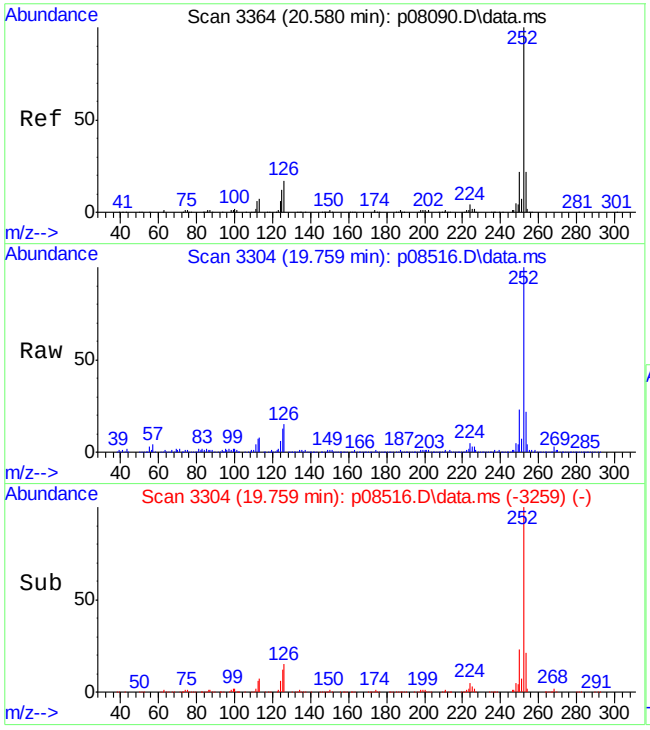


#96
Benzo[b]fluoranthene
Concen: 536.65 ppm m
RT: 19.737 min Scan# 3300
Delta R.T. 0.069 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:252 Resp: 3996112

Ion	Ratio	Lower	Upper
252	100		
253	25.5	0.0	52.4
125	17.7	0.0	40.4

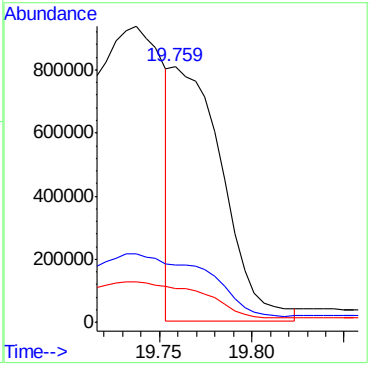


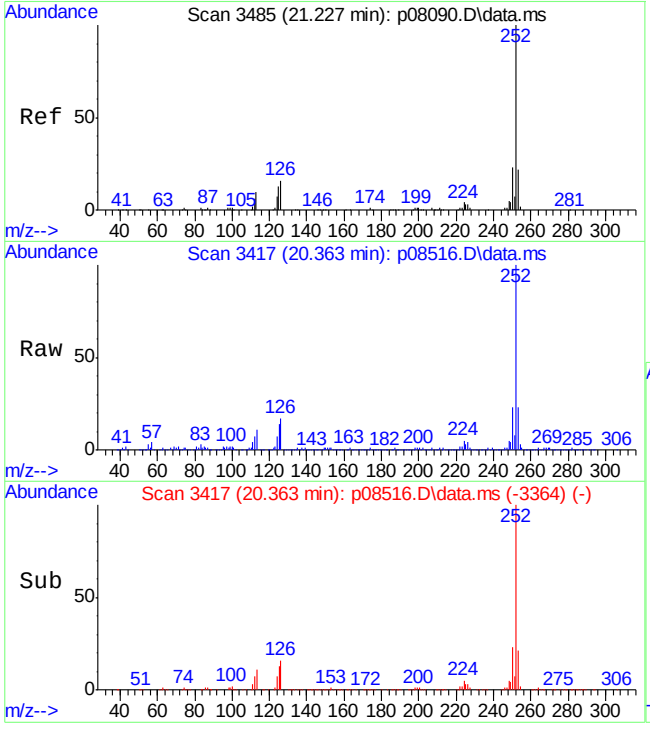


#97
Benzo[k]fluoranthene
Concen: 233.73 ppm m
RT: 19.759 min Scan# 3304
Delta R.T. 0.043 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:252 Resp: 1547684

Ion	Ratio	Lower	Upper
252	100		
253	65.5	0.0	51.8#
125	44.3	0.0	40.3#

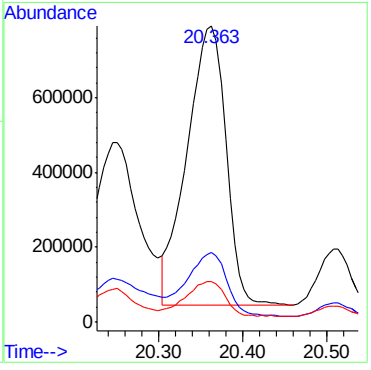


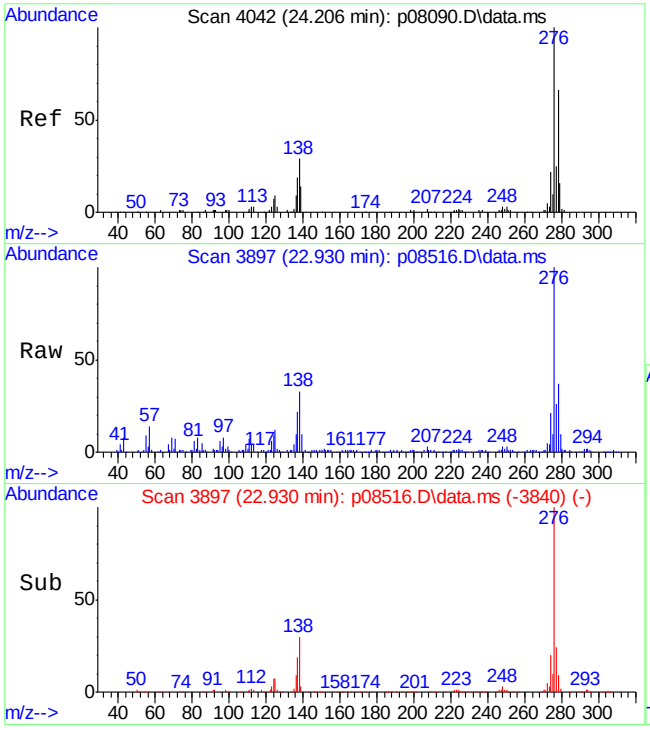


#98
Benzo[a]pyrene
Concen: 379.14 ppm
RT: 20.363 min Scan# 3417
Delta R.T. 0.085 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:252 Resp: 2358430

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	51.9
125	12.2	0.0	41.6

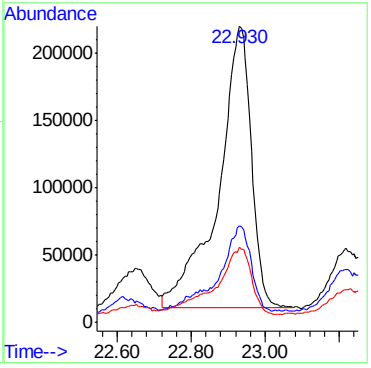


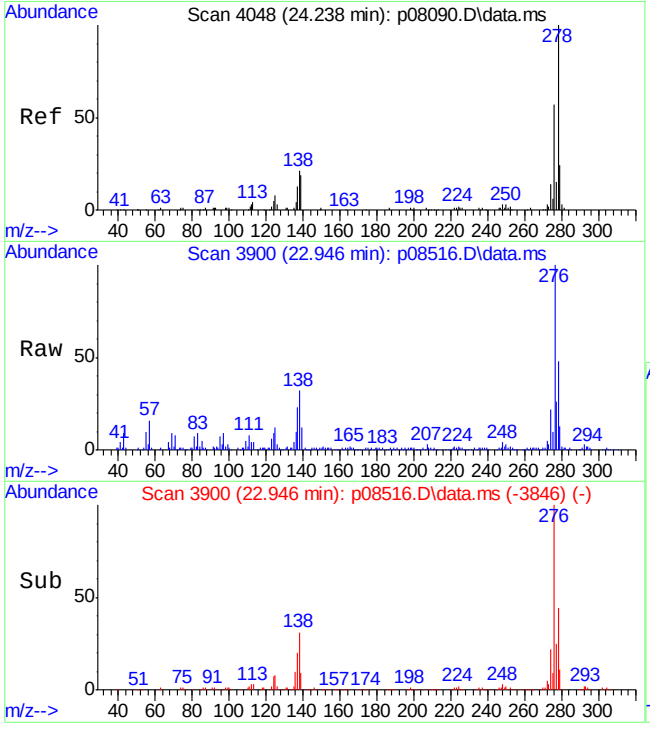


#99
Indeno[1,2,3-cd]pyrene
Concen: 261.89 ppm
RT: 22.930 min Scan# 3897
Delta R.T. 0.107 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:276 Resp: 1295642

Ion	Ratio	Lower	Upper
276	100		
138	29.9	0.0	58.3
277	25.7	0.0	54.4

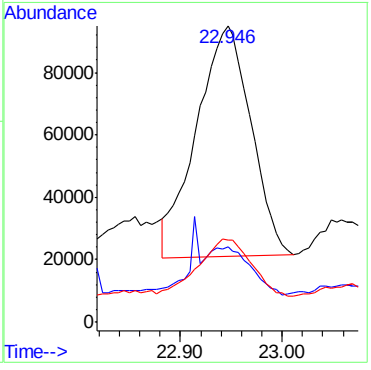


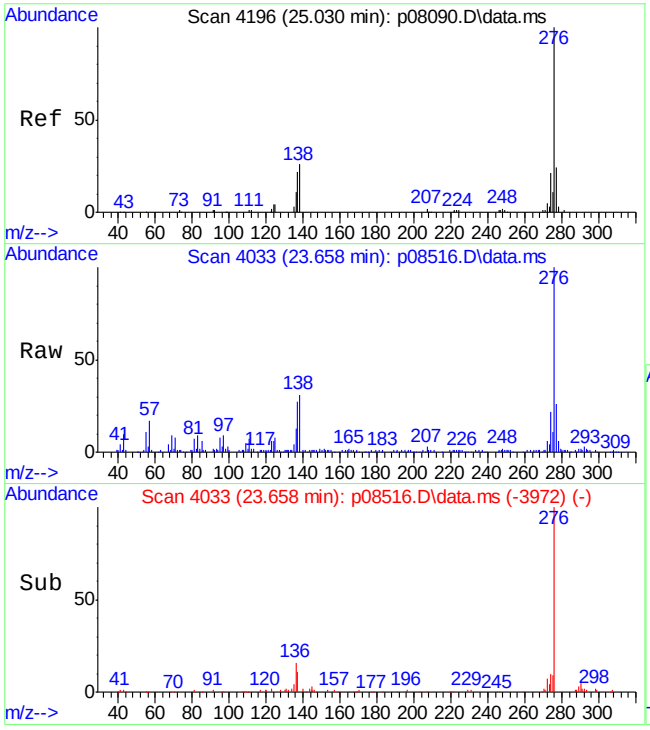


#100
Dibenz[a,h]anthracene
Concen: 66.15 ppm
RT: 22.946 min Scan# 3900
Delta R.T. 0.091 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:278 Resp: 274915

Ion	Ratio	Lower	Upper
278	100		
139	14.1	0.0	49.1
279	25.3	0.0	54.0

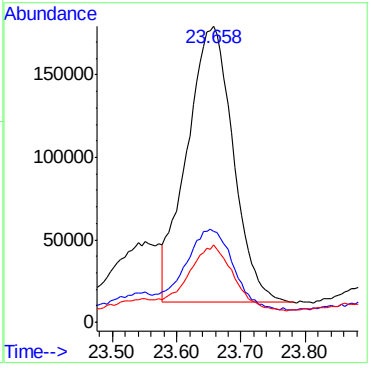




#101
Benzo[g,h,i]perylene
Concen: 210.05 ppm
RT: 23.658 min Scan# 4033
Delta R.T. 0.128 min
Lab File: p08516.D
Acq: 4 Feb 2010 4:48 pm

Tgt Ion:276 Resp: 837895

Ion	Ratio	Lower	Upper
276	100		
138	29.9	0.0	56.4
277	22.9	0.0	54.0



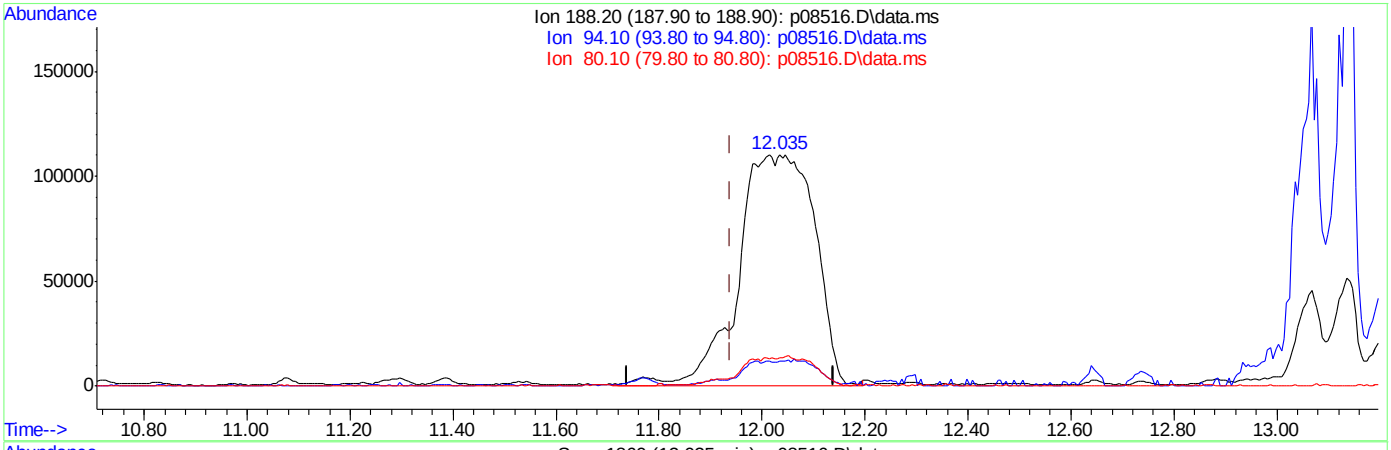
8.1.12

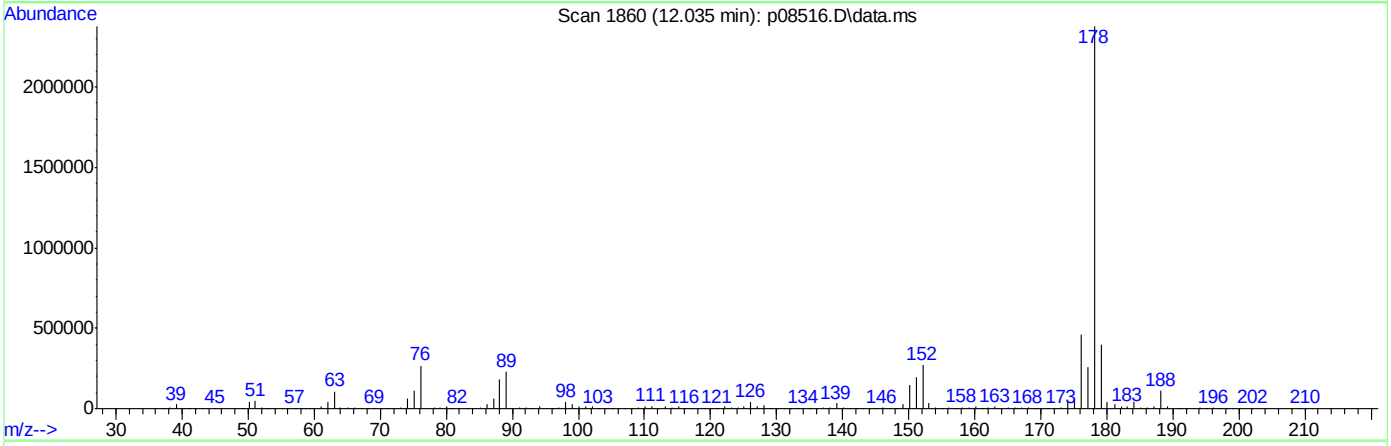
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08516.D\data.ms

(70) Phenanthrene-d10 (I)

12.035min (+0.096) 40.00ppm m

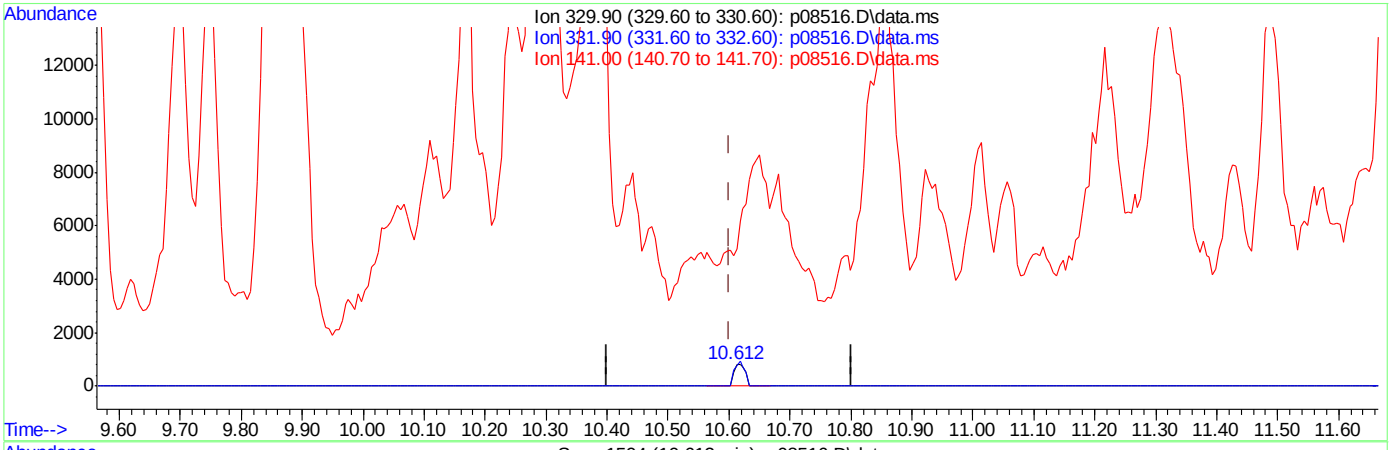
response 1146256

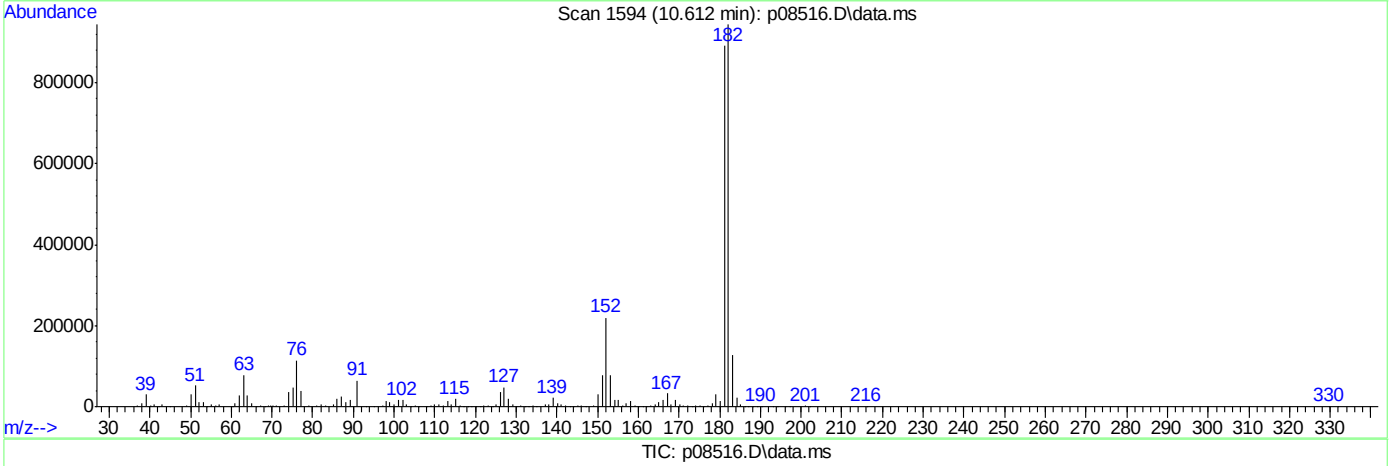
Ion	Exp%	Act%
188.20	100	100
94.10	8.70	1.70
80.10	9.90	1.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08516.D\data.ms

(75) 2,4,6-Tribromophenol (S)

10.612min (+0.012) 0.37ppm m

response 1090

Ion	Exp%	Act%
329.90	100	100
331.90	98.50	0.00#
141.00	37.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On    :  4 Feb 2010   4:48 pm
Operator  : garyj
Sample    : t46705-6, (x4, 20ml)
Misc      : op13984,Ep404,30.65,,,20,4,soil
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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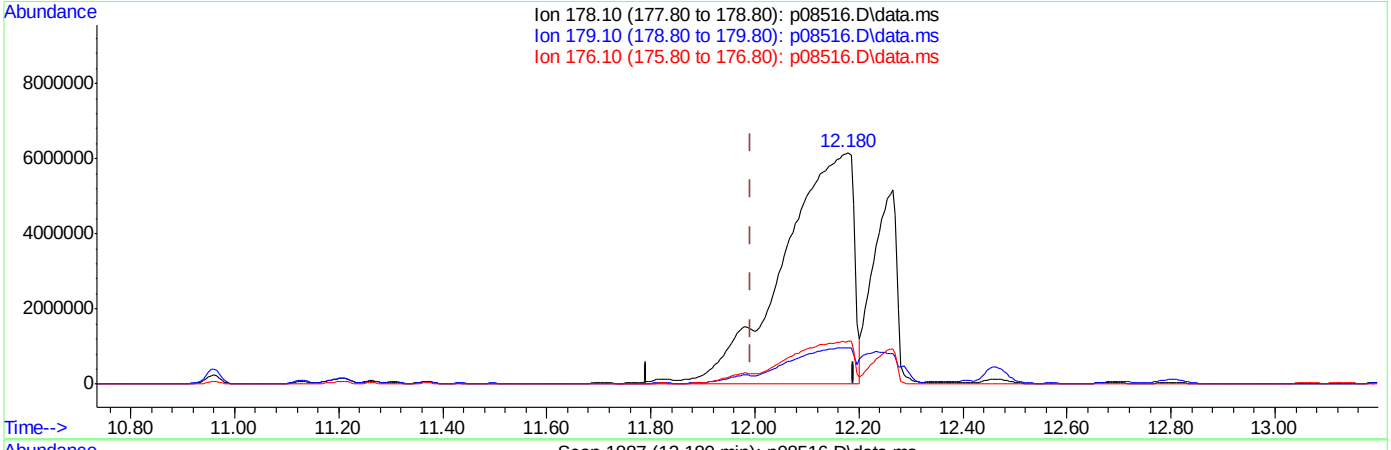

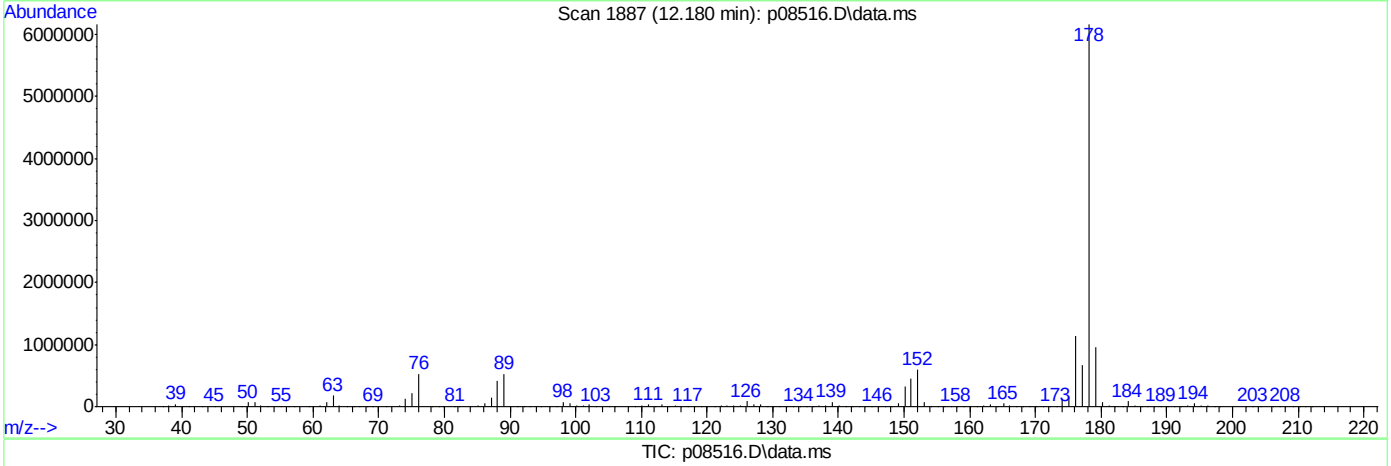

TIC: p08516.D\data.ms

(80) Phenanthrene

12.180min (+0.188) 1893.92ppm m

response 57782389

Ion	Exp%	Act%
178.10	100	100
179.10	15.30	1.42
176.10	19.40	1.75
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On    :  4 Feb 2010   4:48 pm
Operator  : garyj
Sample    : t46705-6, (x4, 20ml)
Misc      : op13984,Ep404,30.65,,,20,4,soil
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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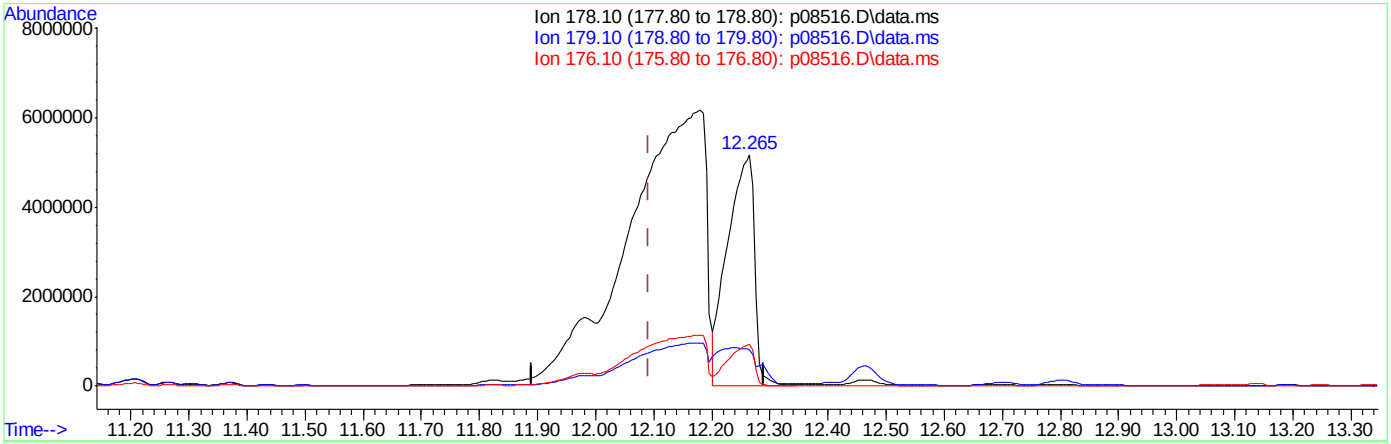

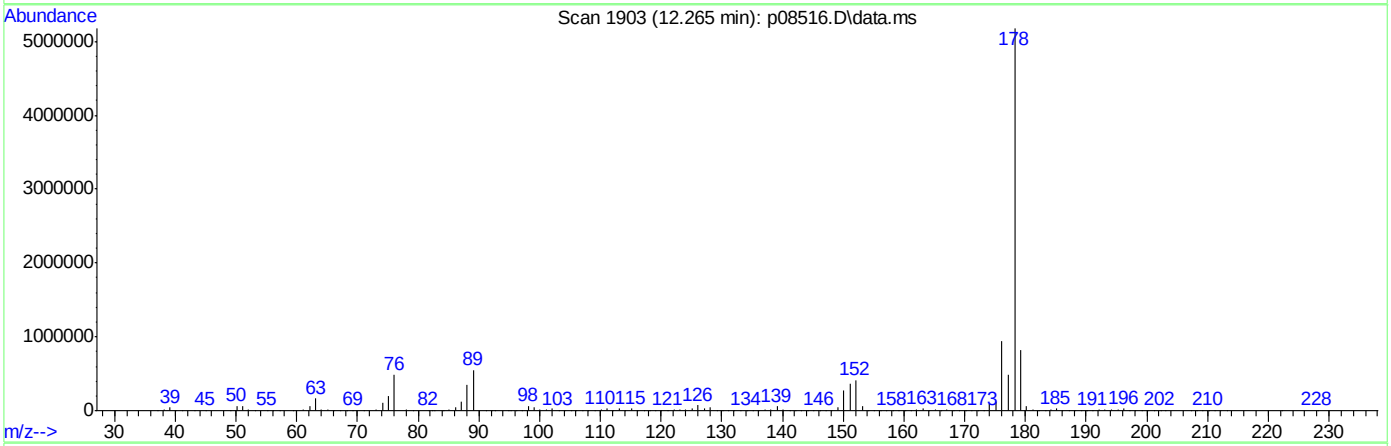

TIC: p08516.D\data.ms

(81) Anthracene

12.265min (+0.174) 506.75ppm m

response 16638179

Ion	Exp%	Act%
178.10	100	100
179.10	15.00	40.74
176.10	18.40	48.89#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On    :  4 Feb 2010   4:48 pm
Operator  : garyj
Sample    : t46705-6, (x4, 20ml)
Misc      : op13984,Ep404,30.65,,,20,4,soil
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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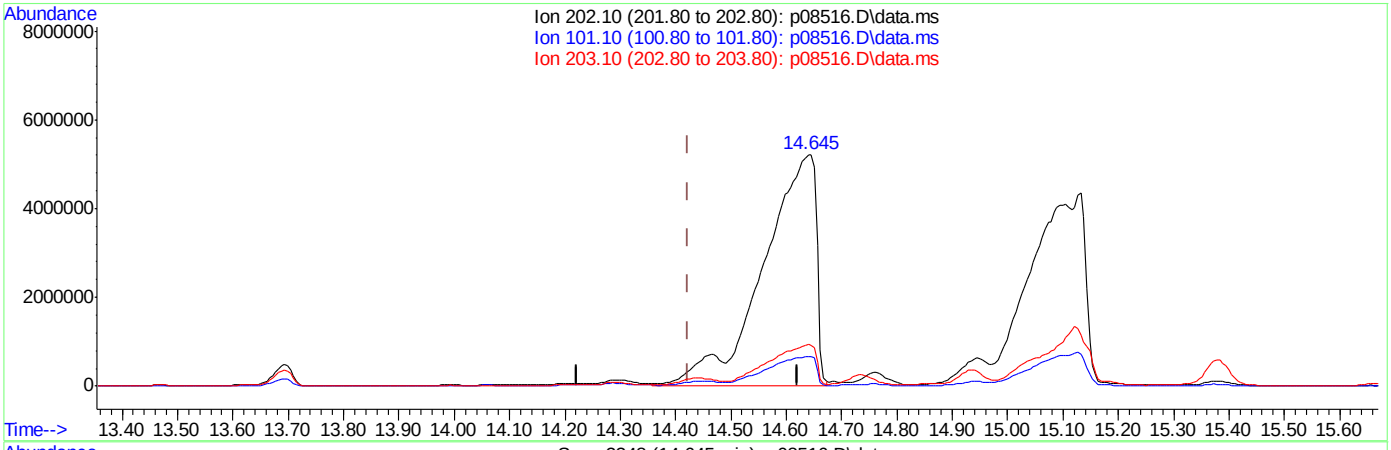
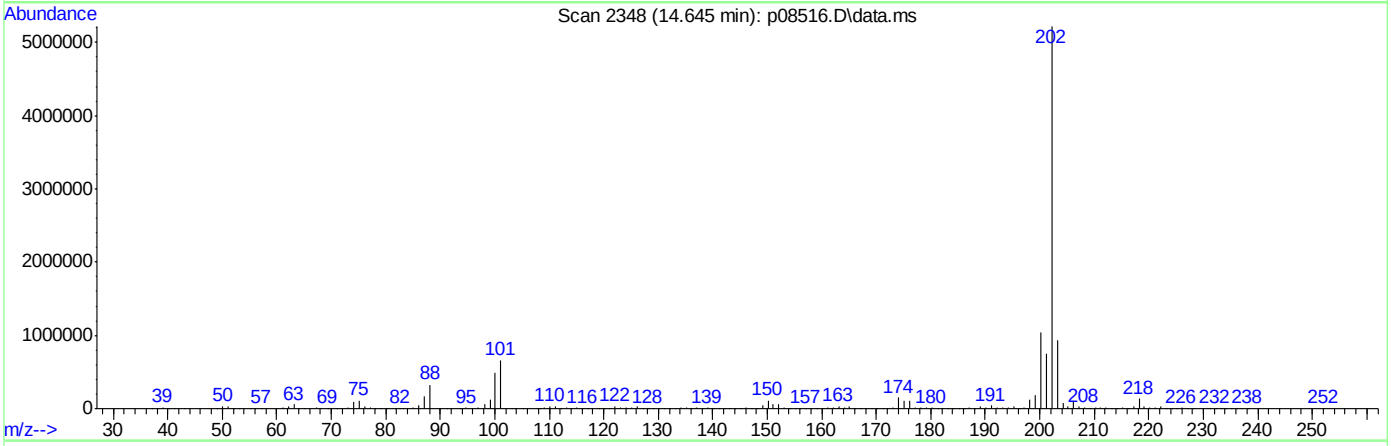




TIC: p08516.D\data.ms

(84) Fluoranthene (C)

14.645min (+0.223) 1020.77ppm m

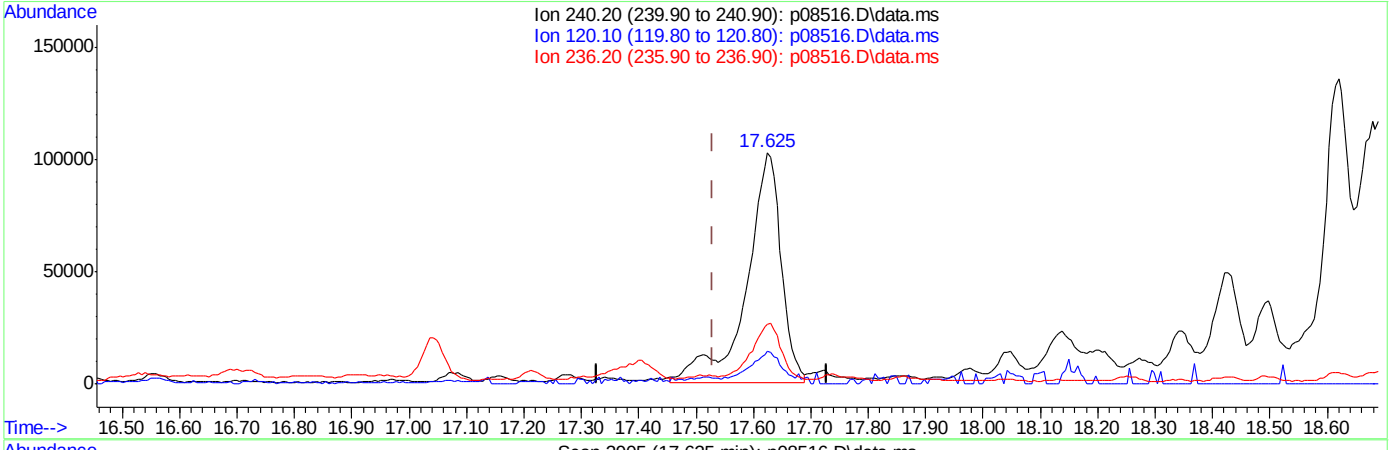
response 34536654

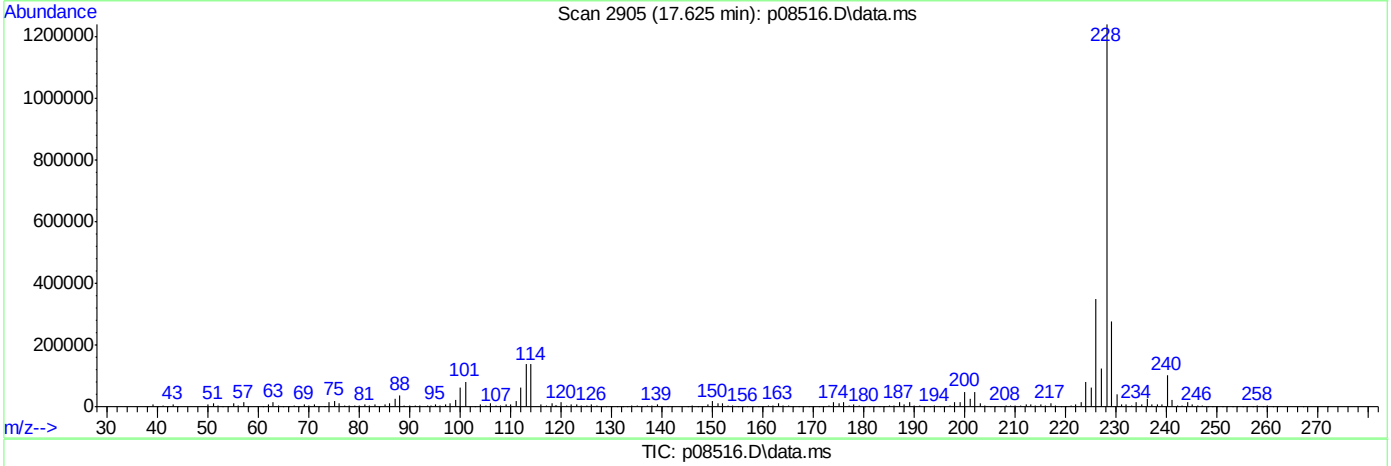
Ion	Exp%	Act%
202.10	100	100
101.10	13.10	1.11
203.10	17.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08516.D\data.ms

(85) Chrysene-d12 (I)

17.625min (+0.096) 40.00ppm m

response 428702

Ion	Exp%	Act%
240.20	100	100
120.10	11.00	9.20
236.20	24.10	21.05
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On    :  4 Feb 2010   4:48 pm
Operator  : garyj
Sample    : t46705-6, (x4, 20ml)
Misc      : op13984,Ep404,30.65,,,20,4,soil
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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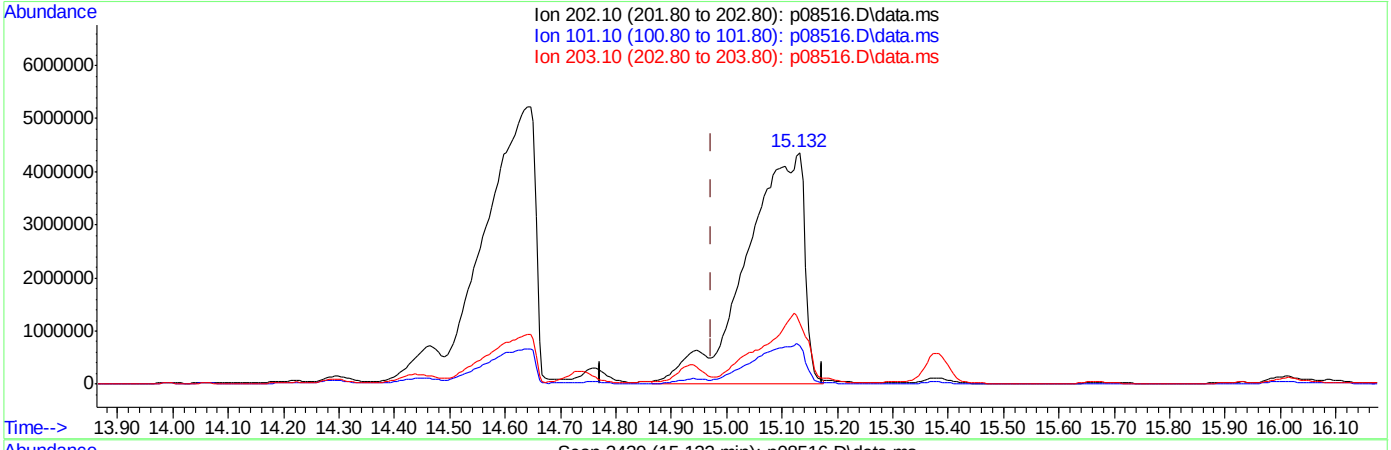
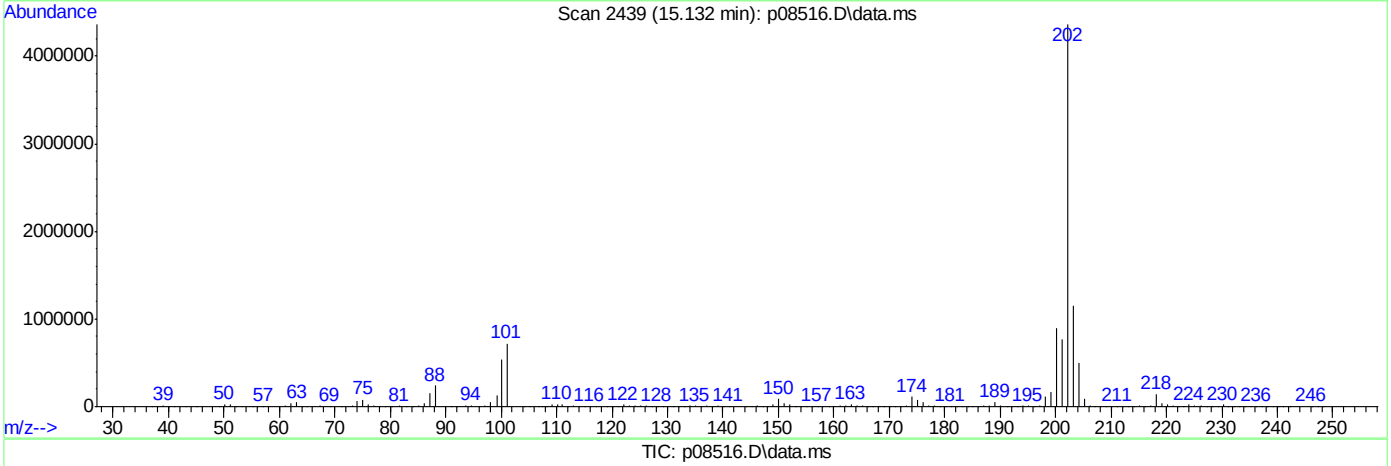




TIC: p08516.D\data.ms

(87) Pyrene

15.132min (+0.159) 1748.21ppm m

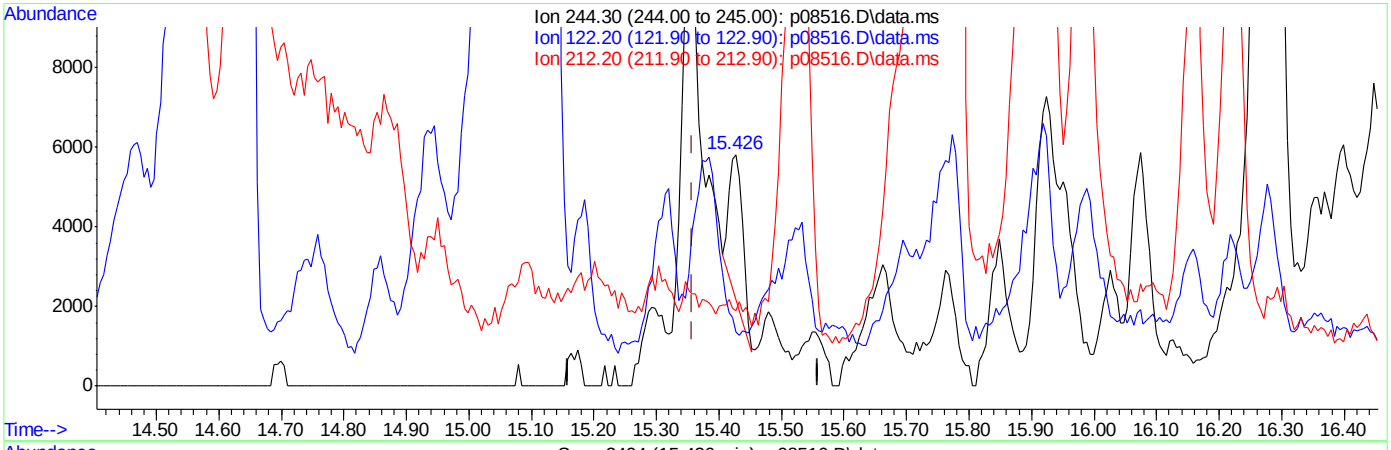
response 31601768

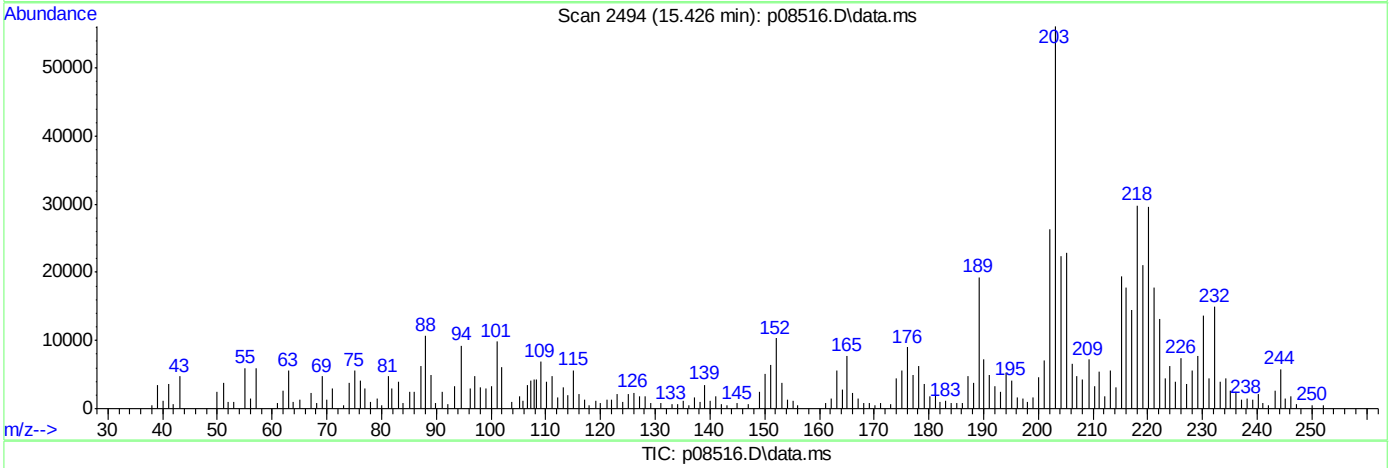
Ion	Exp%	Act%
202.10	100	100
101.10	15.70	15.13
203.10	17.80	23.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(88) Terphenyl-d14 (S)

15.426min (+0.068) 0.46ppm m

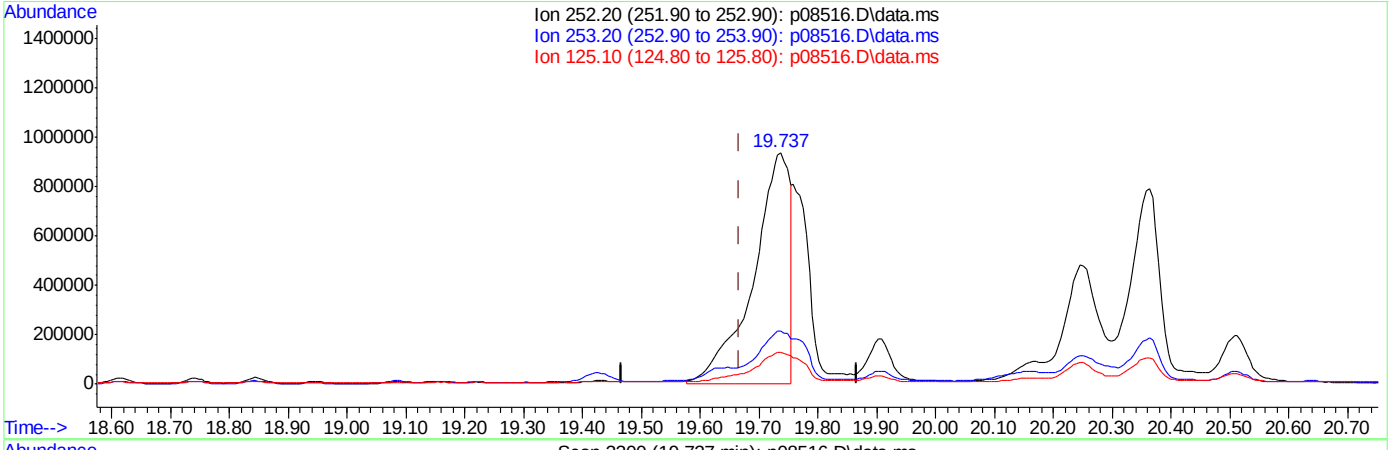
response 5104

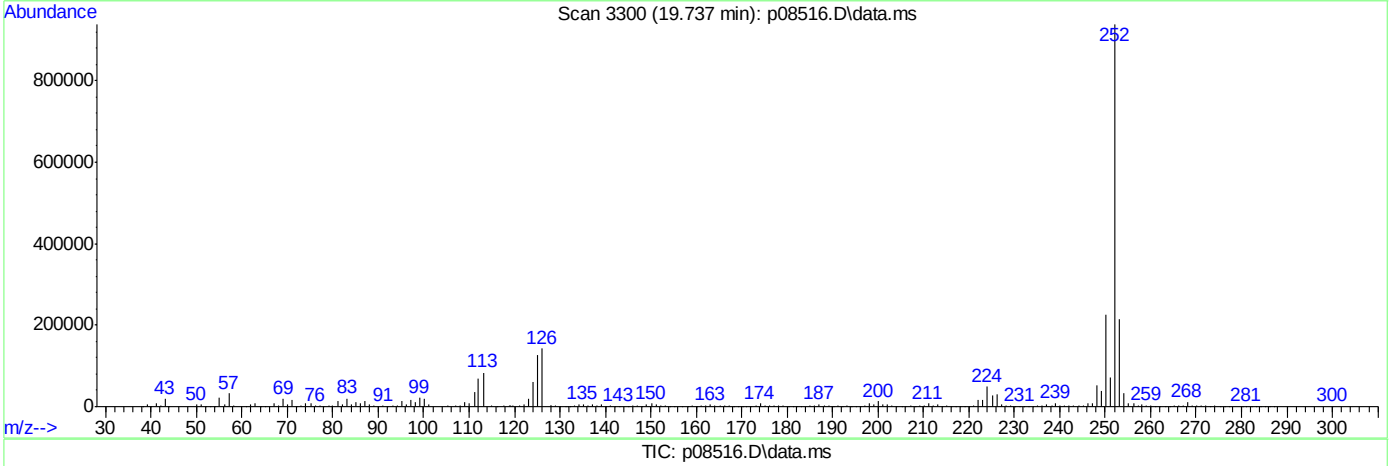
Ion	Exp%	Act%
244.30	100	100
122.20	12.10	0.00
212.20	7.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08516.D\data.ms

(96) Benzo[b]fluoranthene

19.737min (+0.069) 536.65ppm m

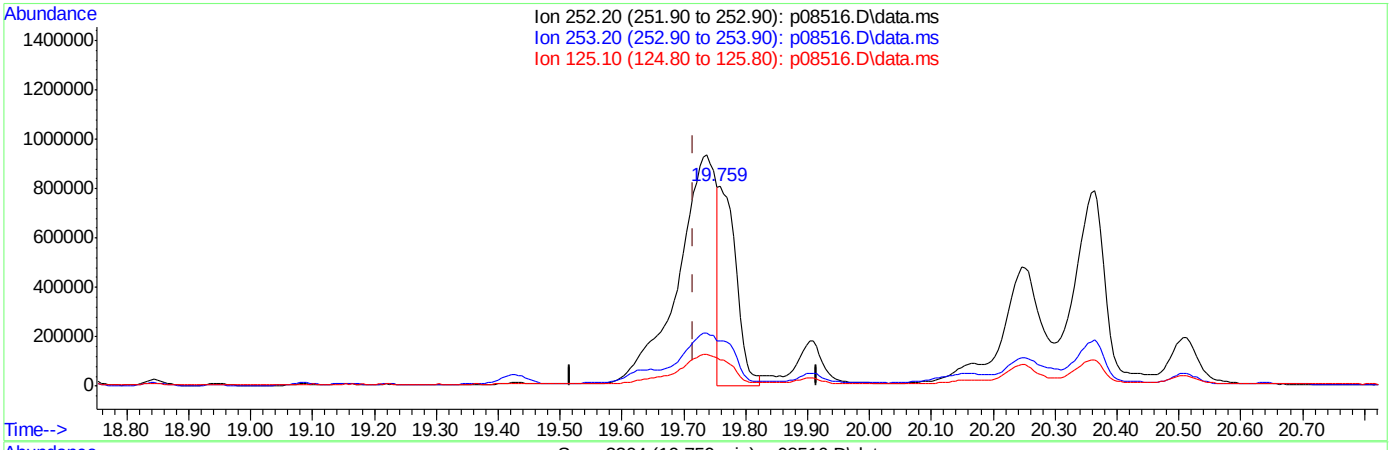
response 3996112

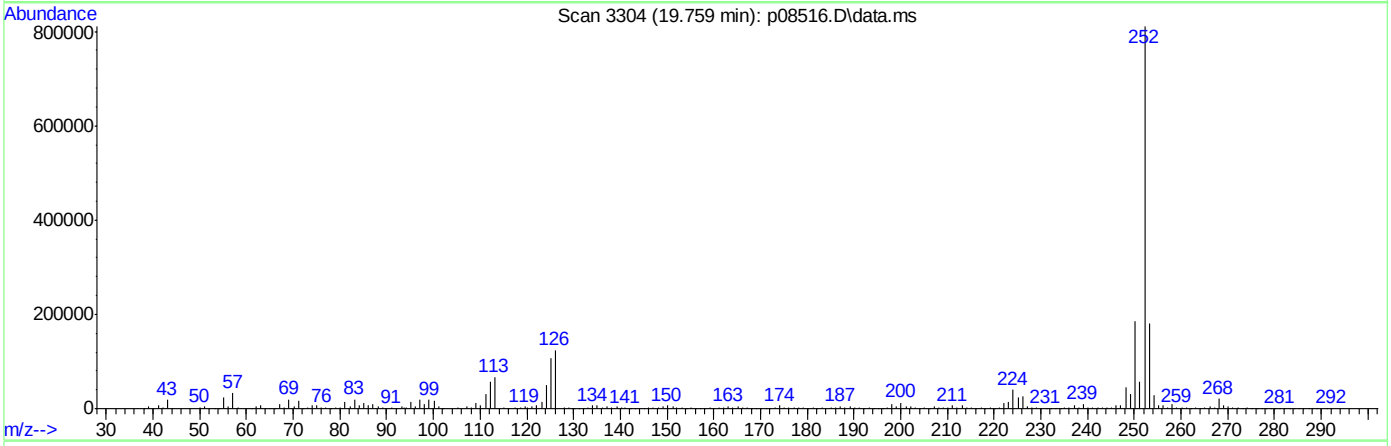
Ion	Exp%	Act%
252.20	100	100
253.20	22.40	25.51
125.10	10.40	17.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08516.D
Acq On : 4 Feb 2010 4:48 pm
Operator : garyj
Sample : t46705-6, (x4, 20ml)
Misc : op13984,Ep404,30.65,,,20,4,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 09:48:35 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08516.D\data.ms

(97) Benzo[k]fluoranthene

19.759min (+0.043) 233.73ppm m

response 1547684

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	65.50#
125.10	10.30	44.27#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08495.D
Acq On : 4 Feb 2010 2:28 am
Operator : garyj
Sample : t46705-7, (x40, 20ml)
Misc : op13984,Ep403,30.16,,,20,40,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 04 12:48:20 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	577536	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1978743	40.00	ppm	0.00
46) Acenaphthene-d10	9.083	164	1292675	40.00	ppm	0.01
70) Phenanthrene-d10	11.950	188	2205309	40.00	ppm	0.01
85) Chrysene-d12	17.555	240	1436109	40.00	ppm	0.03
94) Perylene-d12	20.427	264	806309	40.00	ppm	0.04
System Monitoring Compounds						
10) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 26 - 124		Recovery = 0.00%#			
12) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 19 - 106		Recovery = 0.00%#			
26) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 18 - 104		Recovery = 0.00%#			
50) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 21 - 114		Recovery = 0.00%#			
75) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 18 - 129		Recovery = 0.00%#			
88) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 24 - 149		Recovery = 0.00%#			
Target Compounds						Qvalue
35) Naphthalene	6.494	128	190042	3.42	ppm	98
43) 2-Methylnaphthalene	7.398	142	63517	1.68	ppm	96
44) 1-Methylnaphthalene	7.542	142	41871	1.13	ppm #	77
58) Acenaphthene	9.136	153	365650	9.27	ppm	99
61) Dibenzofuran	9.446	168	159394	3.18	ppm	95
66) Fluorene	10.088	166	340873	8.58	ppm	98
80) Phenanthrene	12.014	178	4103045	69.90	ppm	99
81) Anthracene	12.099	178	857921	13.58	ppm	98
82) Carbazole	12.458	167	617692	10.84	ppm	100
84) Fluoranthene	14.506	202	5184672	79.65	ppm	99
87) Pyrene	14.982	202	5434596	89.75	ppm	94
91) Benzo[a]anthracene	17.534	228	1748522	39.64	ppm	93
92) Chrysene	17.614	228	2068088	49.53	ppm	96
96) Benzo[b]fluoranthene	19.694	252	1318579m	44.16	ppm	
97) Benzo[k]fluoranthene	19.716	252	538205m	20.27	ppm	
98) Benzo[a]pyrene	20.315	252	1014040	40.66	ppm	95
99) Indeno[1,2,3-cd]pyrene	22.882	276	364392	18.37	ppm	95
100) Dibenz[a,h]anthracene	22.909	278	82988	4.98	ppm	91
101) Benzo[g,h,i]perylene	23.588	276	316439	19.79	ppm	95

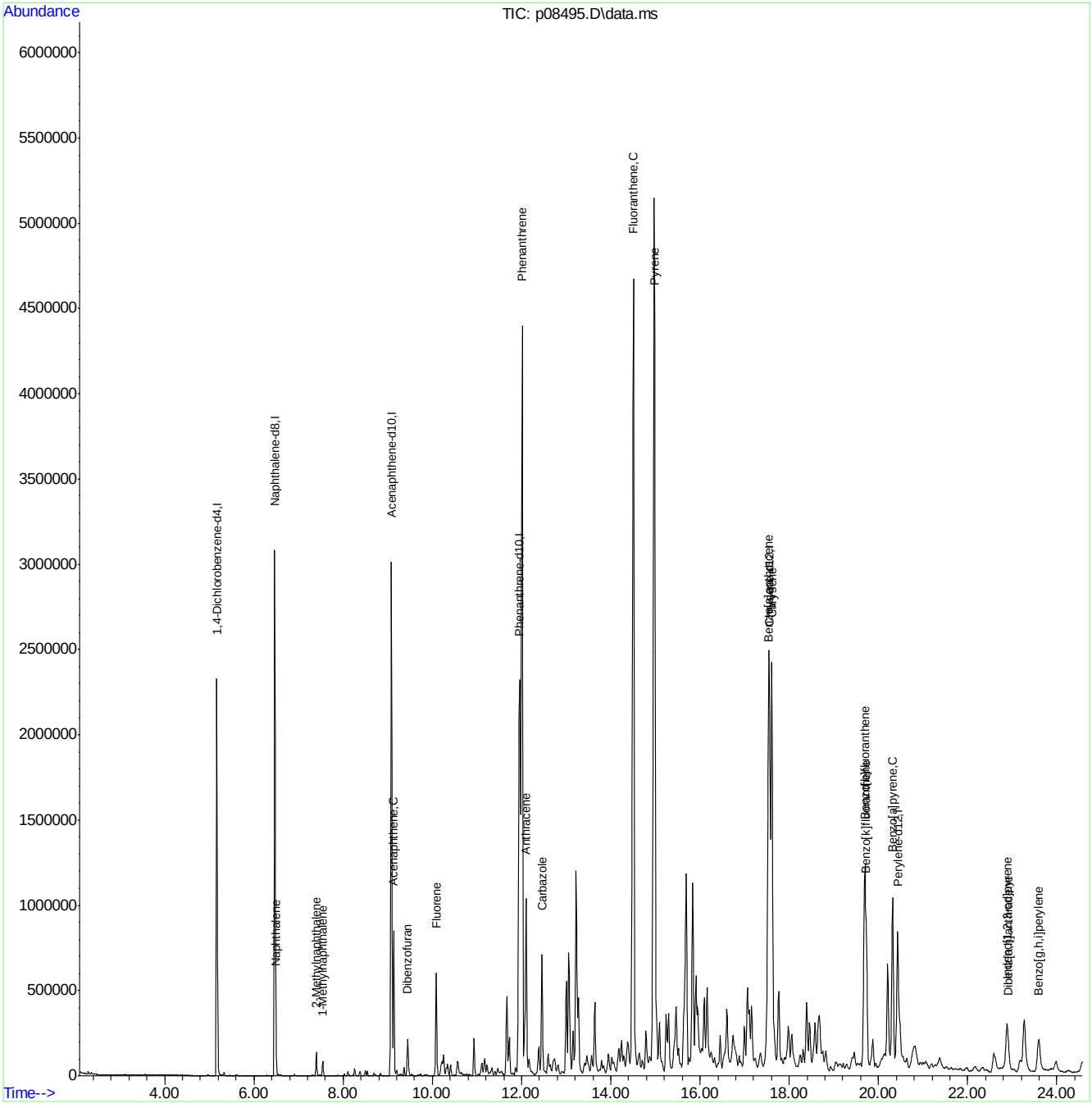
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.13
8

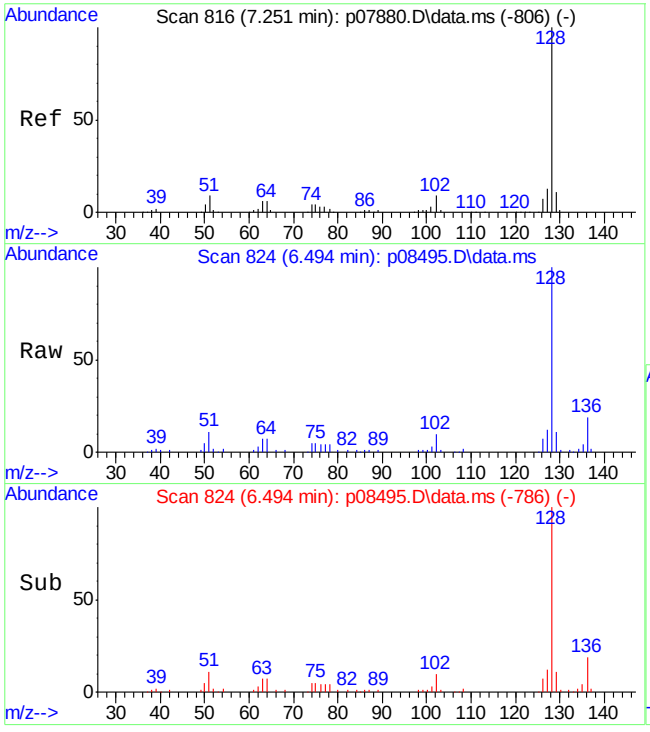
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08495.D
Acq On : 4 Feb 2010 2:28 am
Operator : garyj
Sample : t46705-7, (x40, 20ml)
Misc : op13984,Ep403,30.16,,,20,40,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 04 12:48:20 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



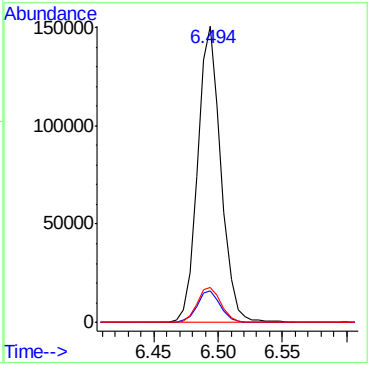
ep393.m Fri Feb 05 09:58:59 2010 Page: 2

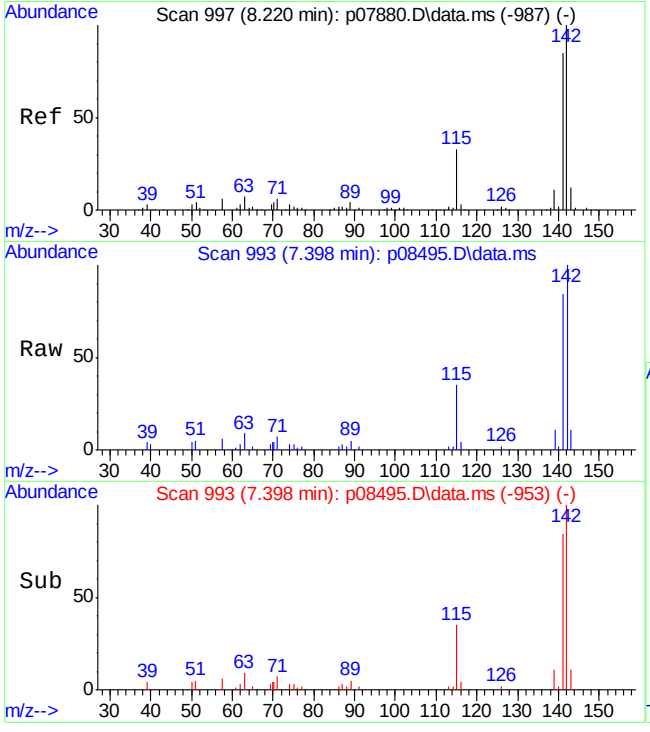


#35
Naphthalene
Concen: 3.42 ppm
RT: 6.494 min Scan# 824
Delta R.T. 0.006 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:128 Resp: 190042

Ion	Ratio	Lower	Upper
128	100		
129	10.7	0.0	40.9
127	12.2	0.0	43.2

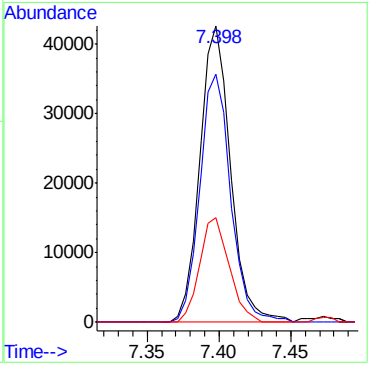


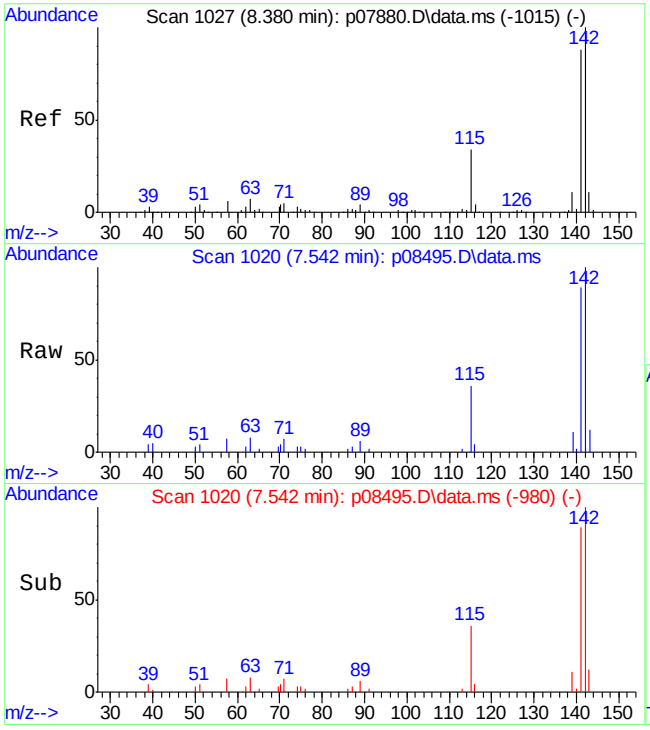


#43
2-Methylnaphthalene
Concen: 1.68 ppm
RT: 7.398 min Scan# 993
Delta R.T. 0.012 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:142 Resp: 63517

Ion	Ratio	Lower	Upper
142	100		
141	84.1	56.1	116.1
115	33.7	9.4	69.4

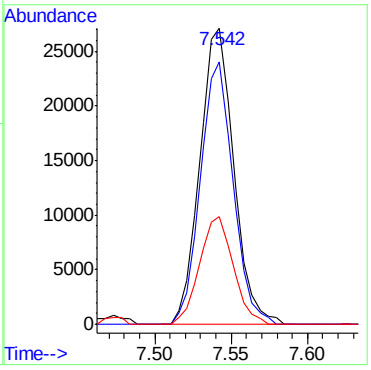


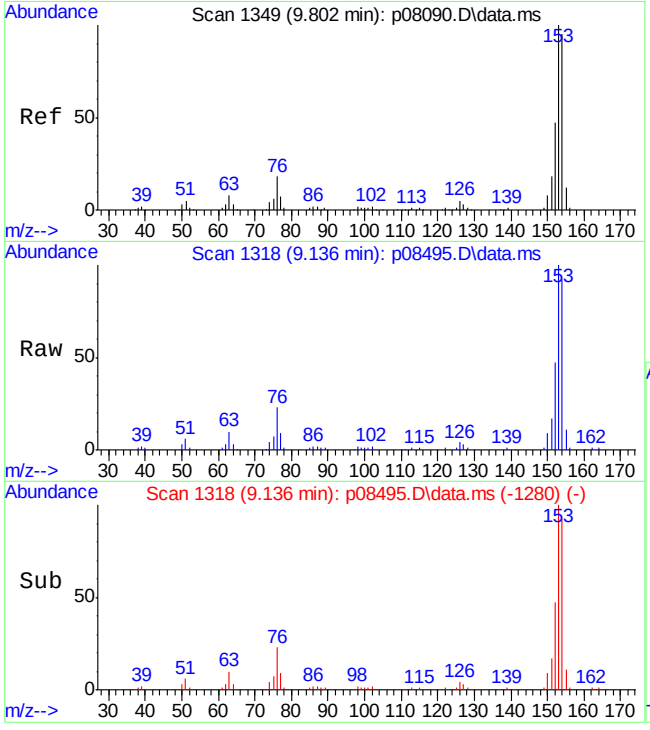


#44
1-Methylnaphthalene
Concen: 1.13 ppm
RT: 7.542 min Scan# 1020
Delta R.T. 0.016 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:142 Resp: 41871

Ion	Ratio	Lower	Upper
142	100		
141	85.4	59.1	119.1
115	0.0	10.7	70.7#

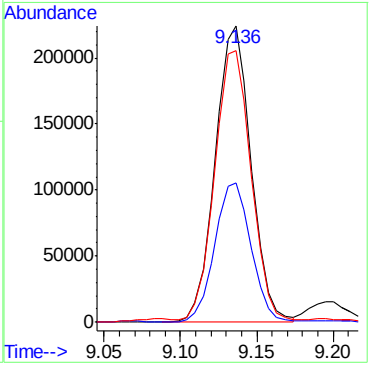


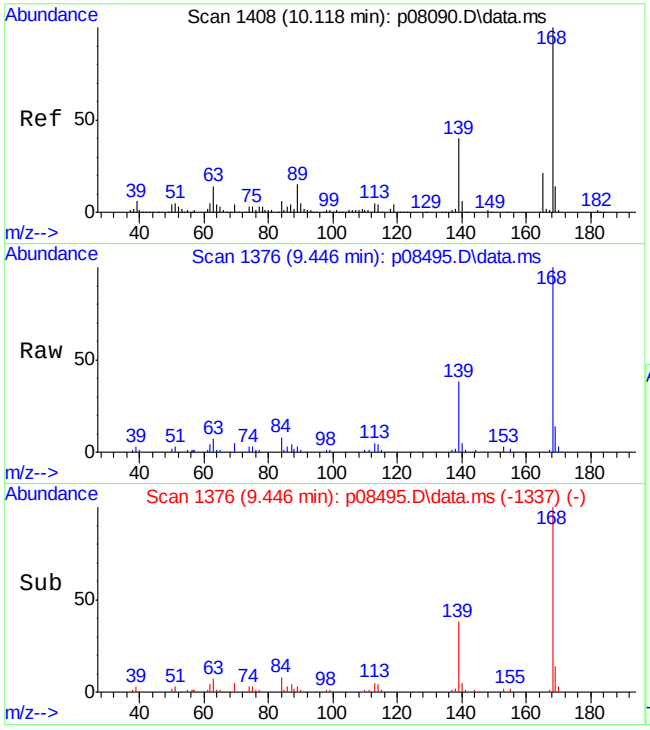


#58
Acenaphthene
Concen: 9.27 ppm
RT: 9.136 min Scan# 1318
Delta R.T. 0.001 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:153 Resp: 365650

Ion	Ratio	Lower	Upper
153	100		
152	47.6	17.6	77.6
154	91.9	64.0	124.0

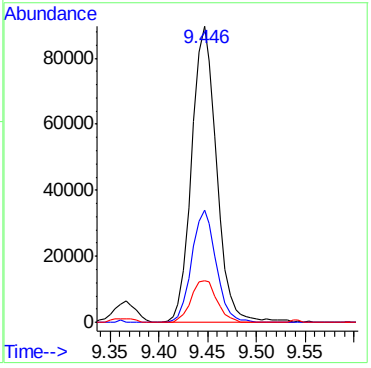


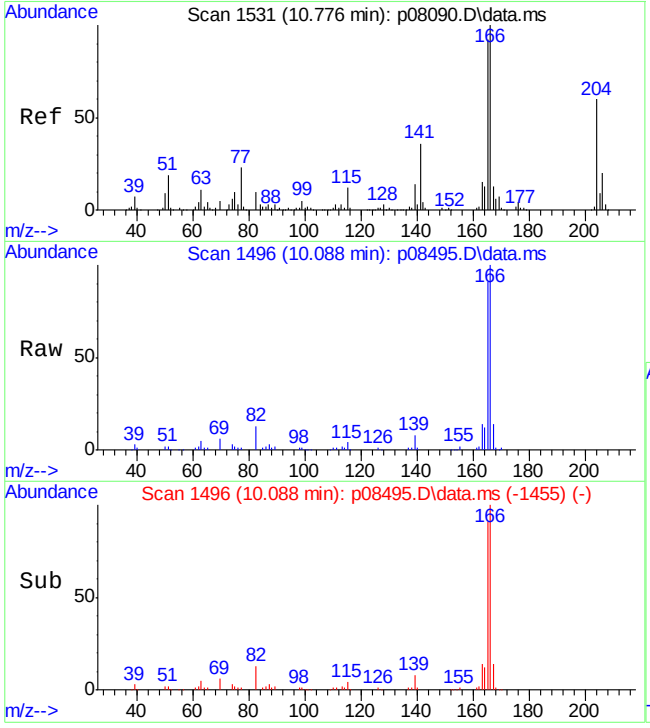


#61
Dibenzofuran
Concen: 3.18 ppm
RT: 9.446 min Scan# 1376
Delta R.T. 0.008 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:168 Resp: 159394

Ion	Ratio	Lower	Upper
168	100		
139	36.9	10.6	70.6
169	14.3	0.0	44.9

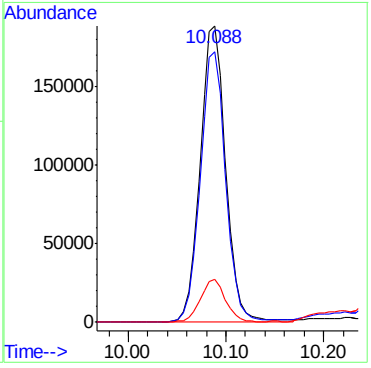


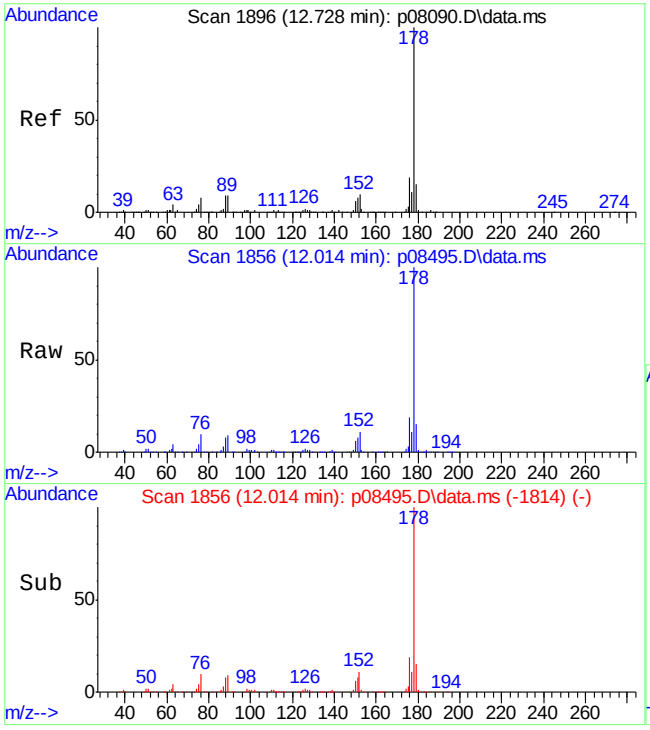


#66
Fluorene
Concen: 8.58 ppm
RT: 10.088 min Scan# 1496
Delta R.T. 0.017 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:166 Resp: 340873

Ion	Ratio	Lower	Upper
166	100		
165	91.3	63.6	123.6
167	14.1	0.0	43.7

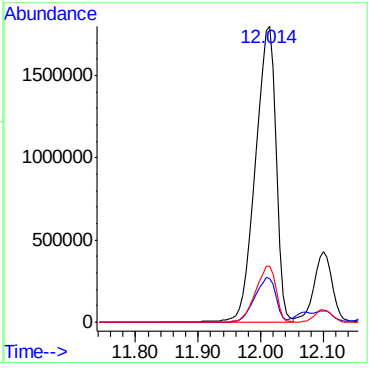


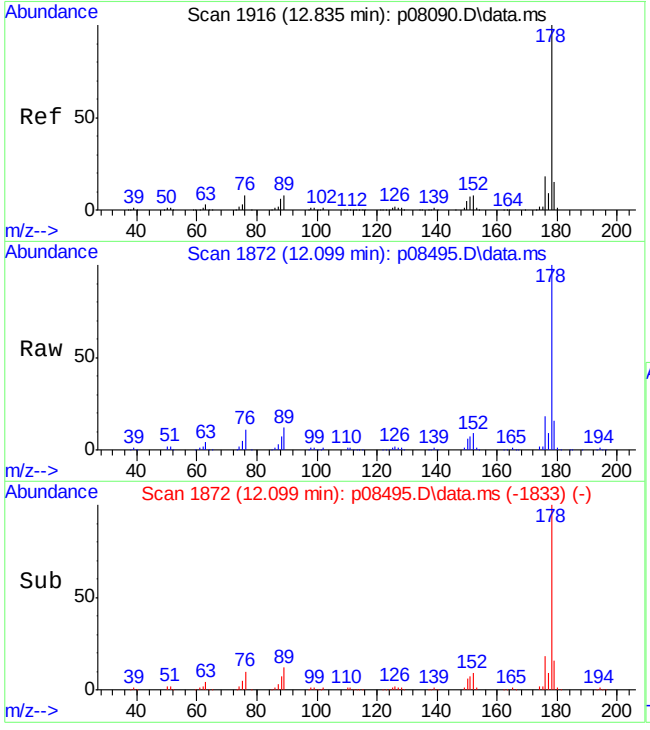


#80
Phenanthrene
Concen: 69.90 ppm
RT: 12.014 min Scan# 1856
Delta R.T. 0.022 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:178 Resp: 4103045

Ion	Ratio	Lower	Upper
178	100		
179	15.6	0.0	45.3
176	19.0	0.0	49.4

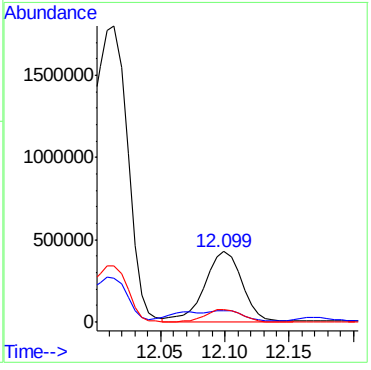


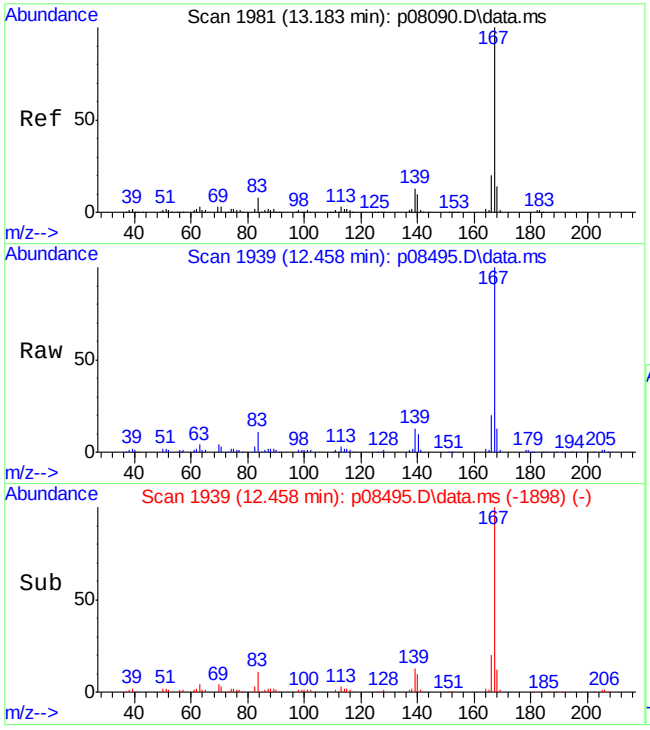


#81
Anthracene
Concen: 13.58 ppm
RT: 12.099 min Scan# 1872
Delta R.T. 0.008 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:178 Resp: 857921

Ion	Ratio	Lower	Upper
178	100		
179	14.7	0.0	45.0
176	17.4	0.0	48.4

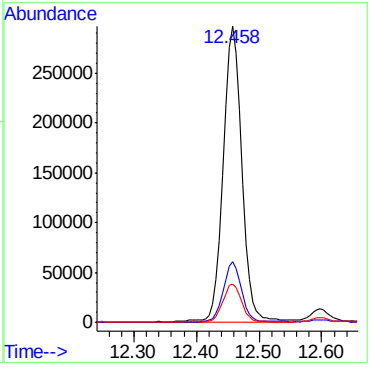


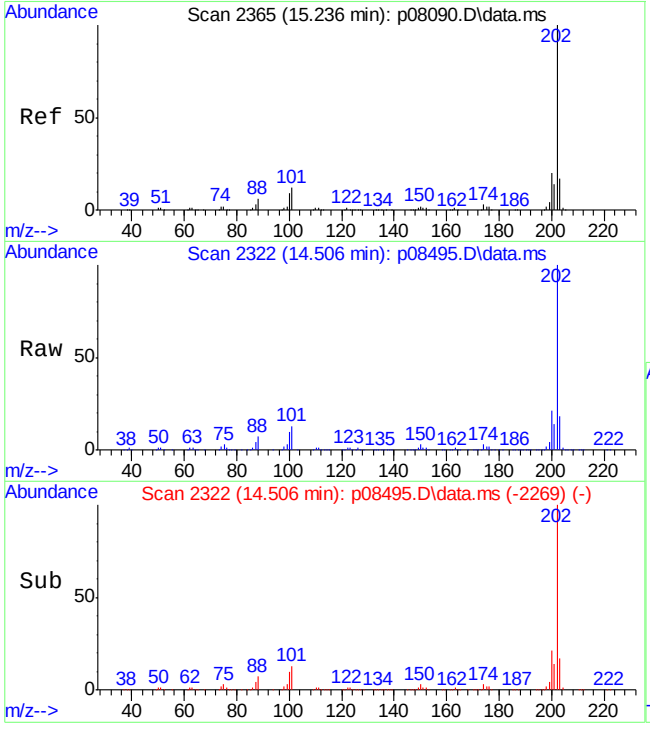


#82
Carbazole
Concen: 10.84 ppm
RT: 12.458 min Scan# 1939
Delta R.T. 0.020 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:167 Resp: 617692

Ion	Ratio	Lower	Upper
167	100		
166	20.0	0.0	50.0
139	13.0	0.0	43.3

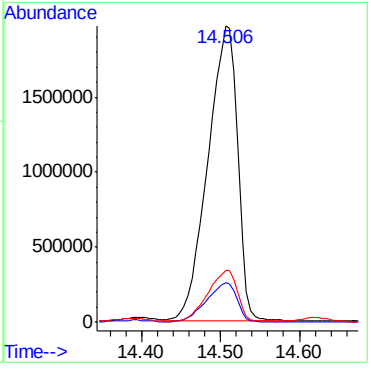


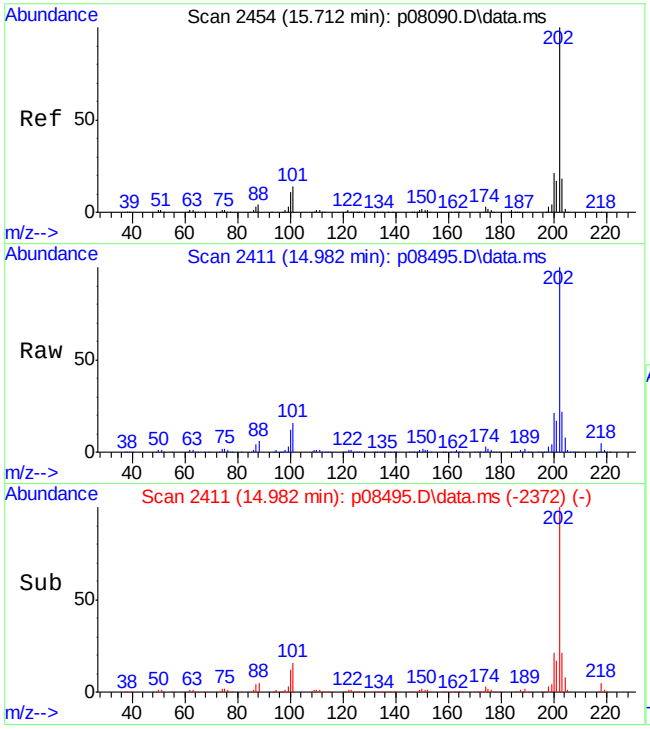


#84
Fluoranthene
Concen: 79.65 ppm
RT: 14.506 min Scan# 2322
Delta R.T. 0.084 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:202 Resp: 5184672

Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	43.1
203	17.2	0.0	47.4

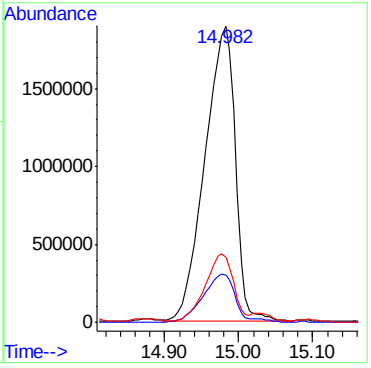


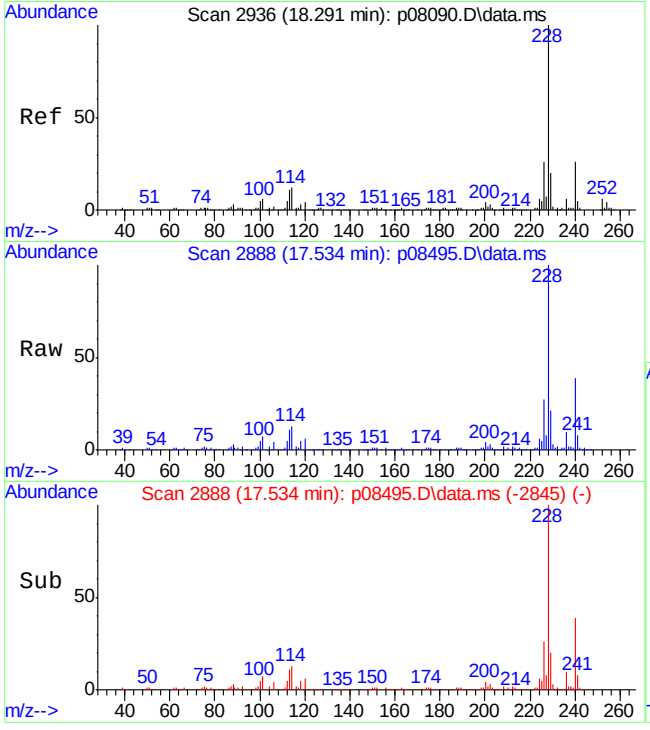


#87
Pyrene
Concen: 89.75 ppm
RT: 14.982 min Scan# 2411
Delta R.T. 0.009 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:202 Resp: 5434596

Ion	Ratio	Lower	Upper
202	100		
101	16.9	0.0	45.7
203	21.6	0.0	47.8

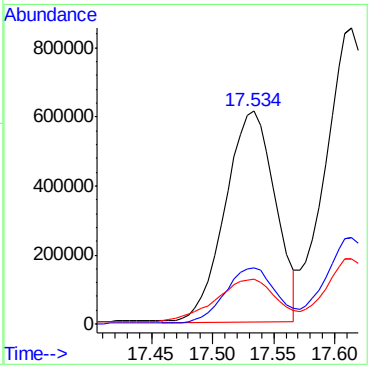


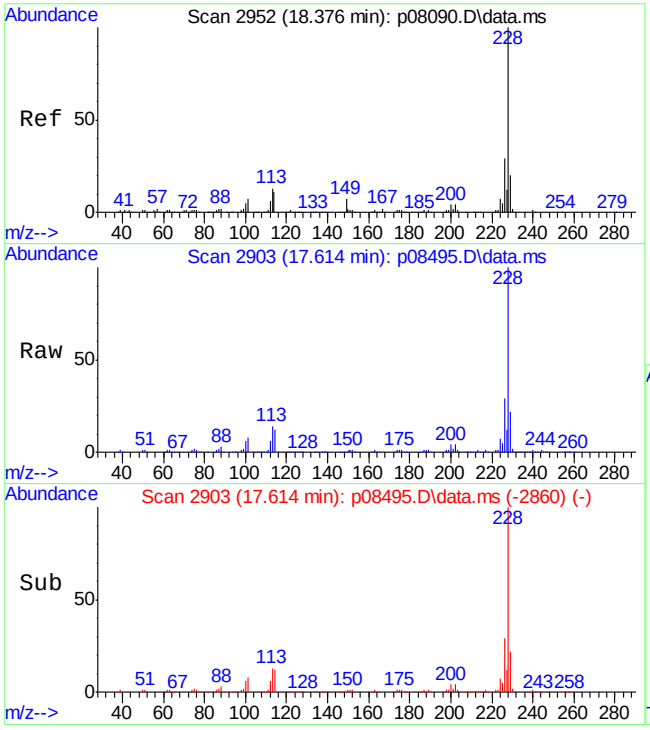


#91
Benzo[a]anthracene
Concen: 39.64 ppm
RT: 17.534 min Scan# 2888
Delta R.T. 0.031 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:228 Resp: 1748522

Ion	Ratio	Lower	Upper
228	100		
226	27.7	0.0	55.8
229	24.4	0.0	49.5

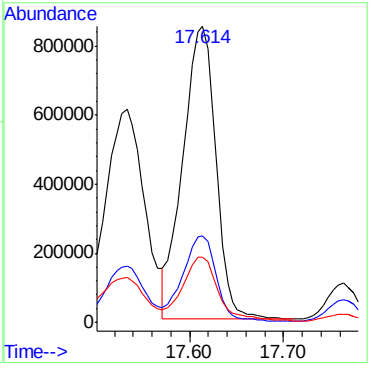


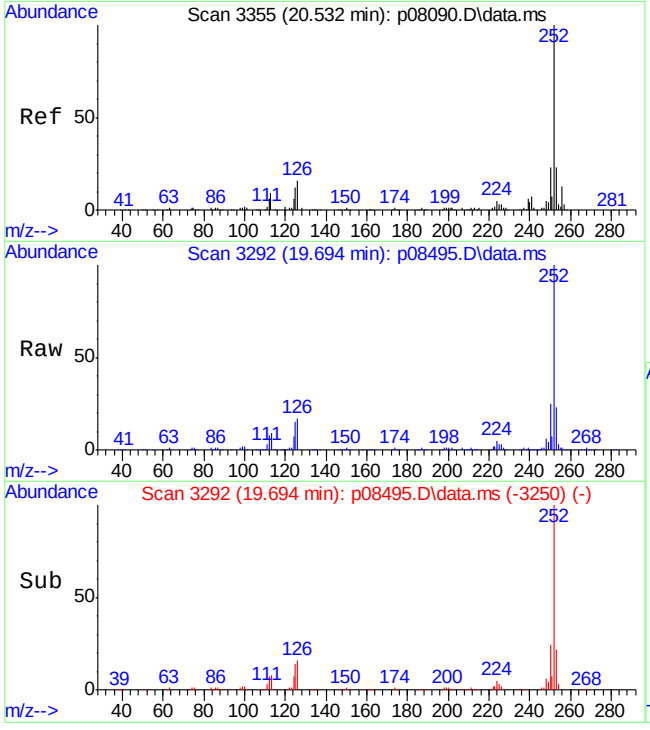


#92
Chrysene
Concen: 49.53 ppm
RT: 17.614 min Scan# 2903
Delta R.T. 0.033 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:228 Resp: 2068088

Ion	Ratio	Lower	Upper
228	100		
226	29.3	0.0	58.9
229	23.4	0.0	49.6

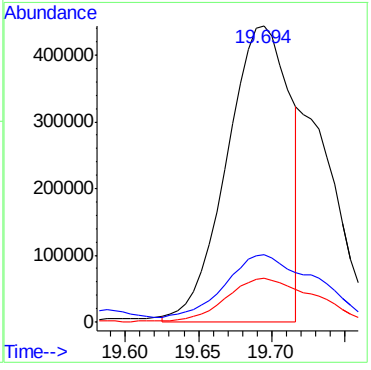


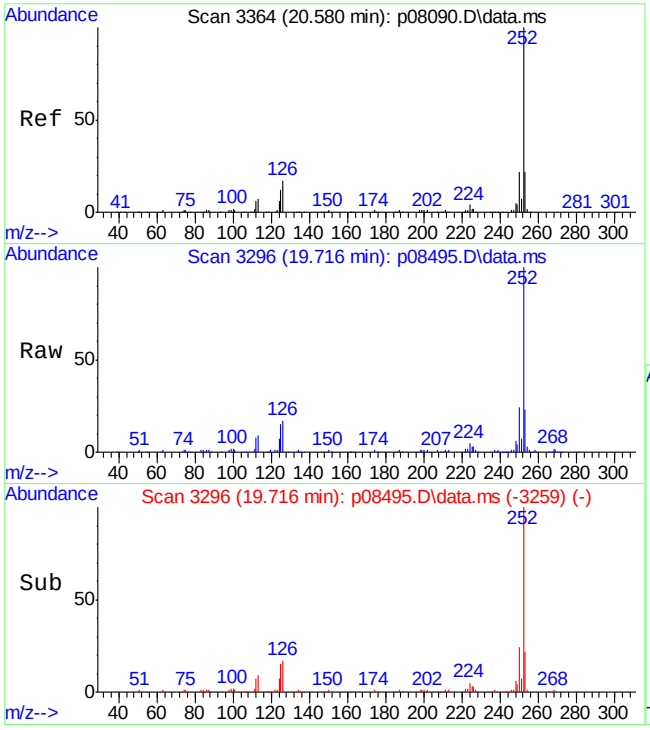


#96
Benzo[b]fluoranthene
Concen: 44.16 ppm m
RT: 19.694 min Scan# 3292
Delta R.T. 0.026 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:252 Resp: 1318579

Ion	Ratio	Lower	Upper
252	100		
253	31.7	0.0	52.4
125	20.2	0.0	40.4

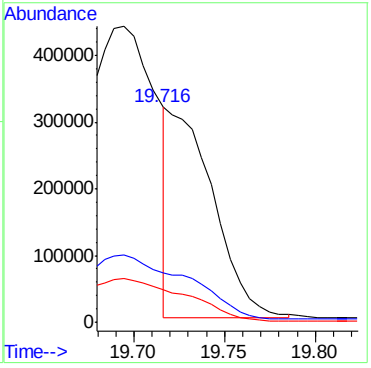


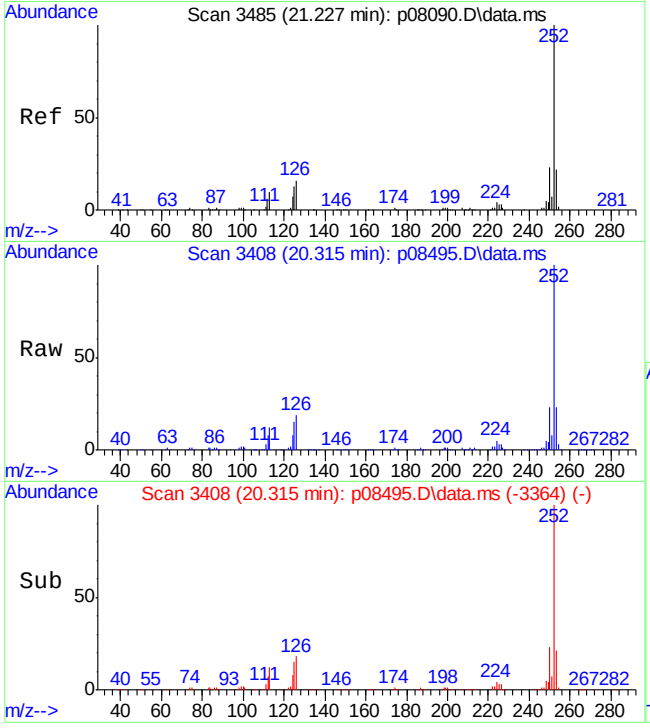


#97
Benzo[k]fluoranthene
Concen: 20.27 ppm m
RT: 19.716 min Scan# 3296
Delta R.T. -0.000 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:252 Resp: 538205

Ion	Ratio	Lower	Upper
252	100		
253	76.1	0.0	51.8#
125	49.6	0.0	40.3#

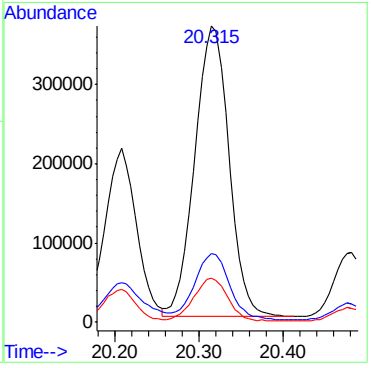


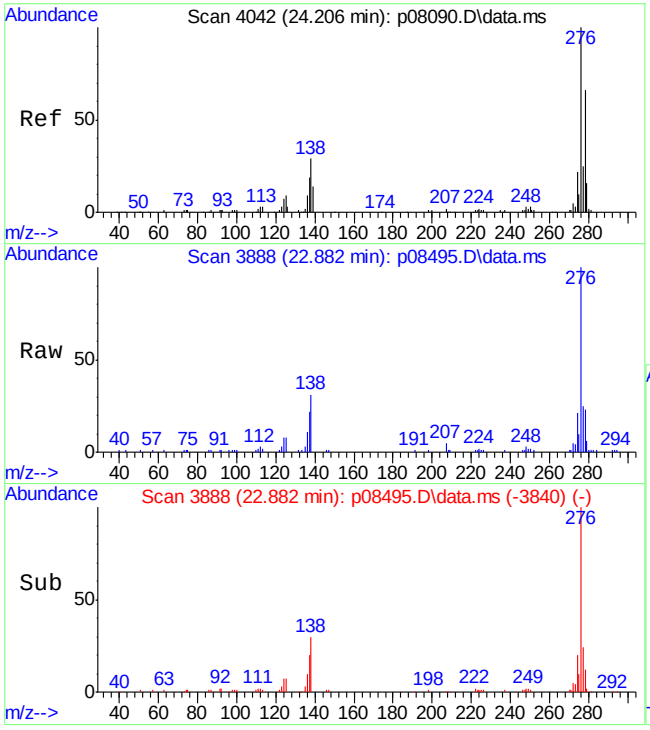


#98
Benzo[a]pyrene
Concen: 40.66 ppm
RT: 20.315 min Scan# 3408
Delta R.T. 0.037 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:252 Resp: 1014040

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	51.9
125	14.4	0.0	41.6

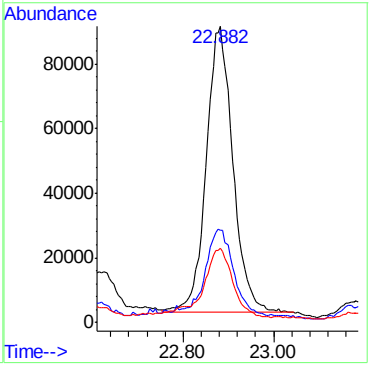


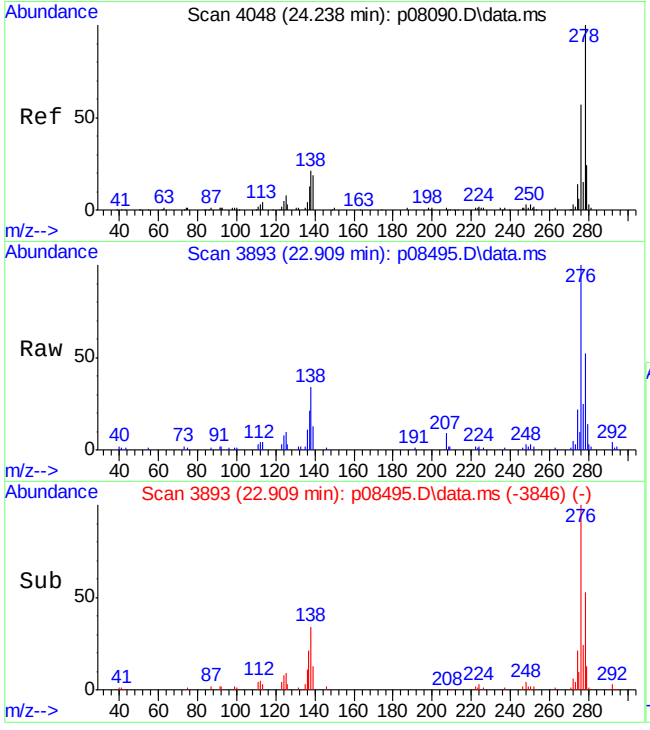


#99
Indeno[1,2,3-cd]pyrene
Concen: 18.37 ppm
RT: 22.882 min Scan# 3888
Delta R.T. 0.059 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:276 Resp: 364392

Ion	Ratio	Lower	Upper
276	100		
138	30.8	0.0	58.3
277	27.1	0.0	54.4

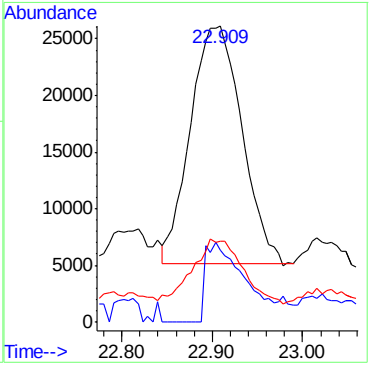


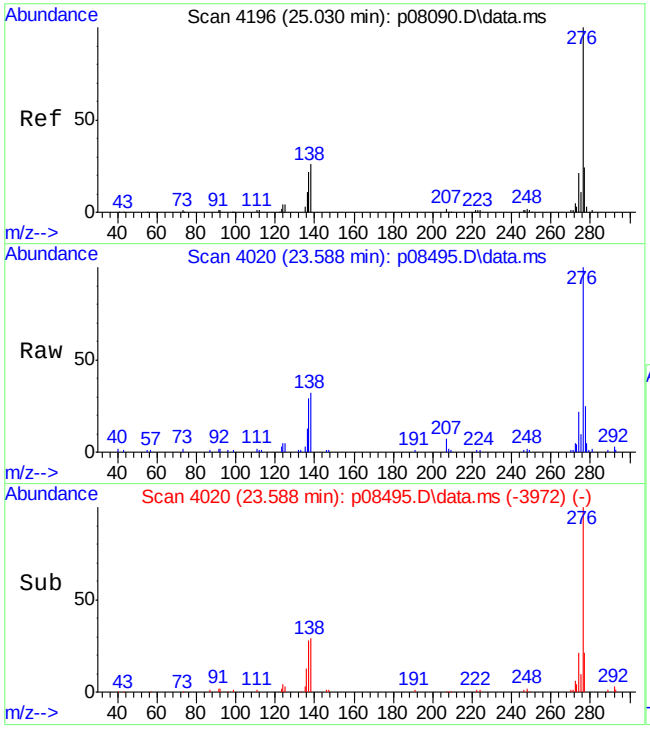


#100
Dibenz[a,h]anthracene
Concen: 4.98 ppm
RT: 22.909 min Scan# 3893
Delta R.T. 0.053 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:278 Resp: 82988

Ion	Ratio	Lower	Upper
278	100		
139	25.2	0.0	49.1
279	26.6	0.0	54.0

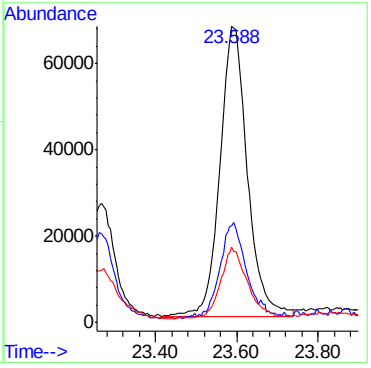




#101
Benzo[g,h,i]perylene
Concen: 19.79 ppm
RT: 23.588 min Scan# 4020
Delta R.T. 0.059 min
Lab File: p08495.D
Acq: 4 Feb 2010 2:28 am

Tgt Ion:276 Resp: 316439

Ion	Ratio	Lower	Upper
276	100		
138	30.8	0.0	56.4
277	23.5	0.0	54.0



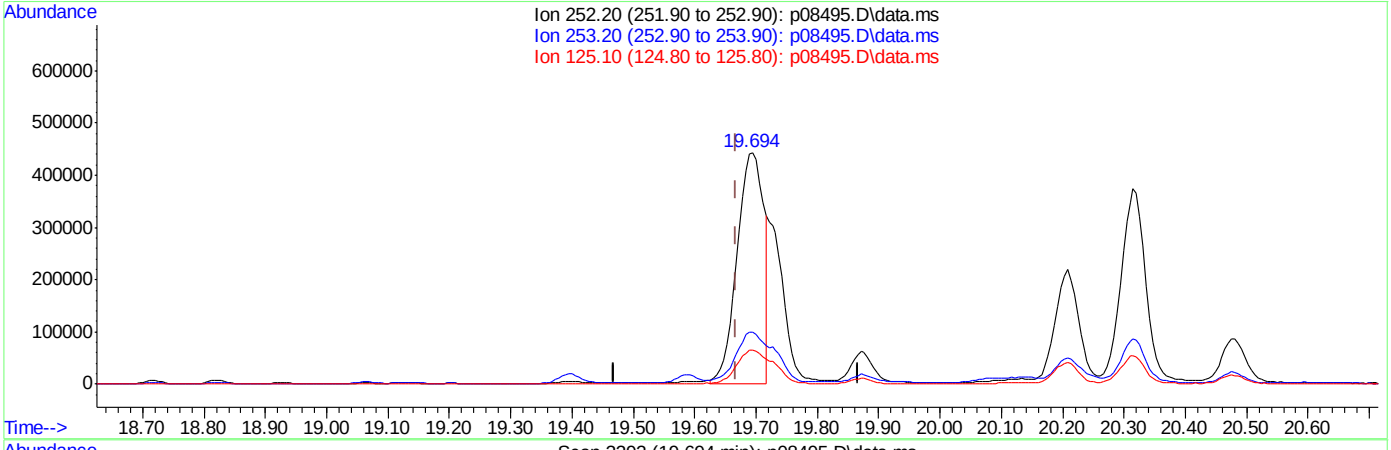
8.1.13

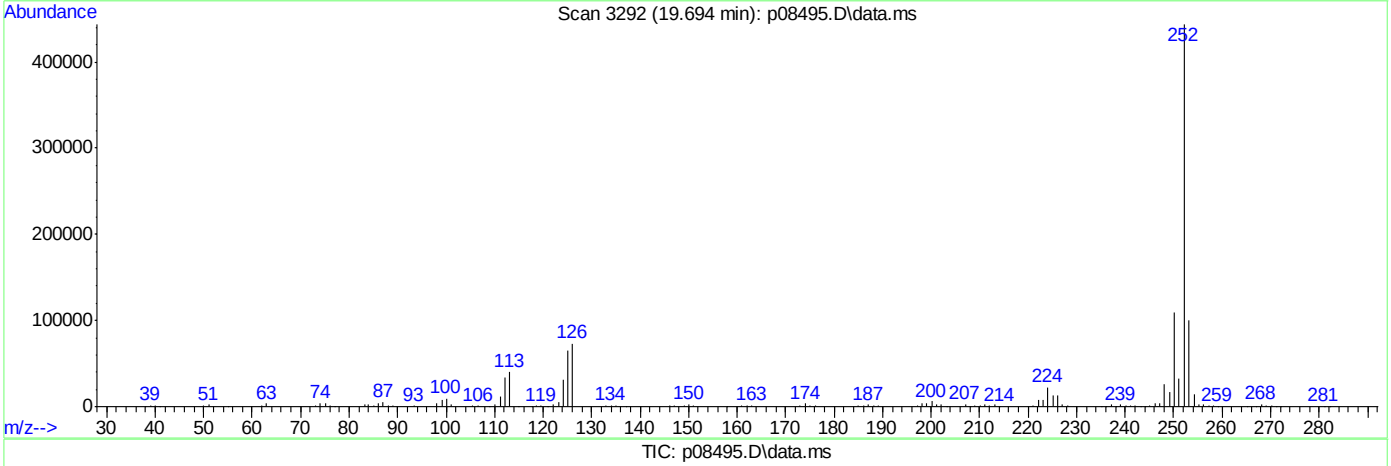
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08495.D
Acq On : 4 Feb 2010 2:28 am
Operator : garyj
Sample : t46705-7, (x40, 20ml)
Misc : op13984,Ep403,30.16,,,20,40,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 04 12:48:20 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08495.D\data.ms

(96) Benzo[b]fluoranthene

19.694min (+0.026) 44.16ppm m

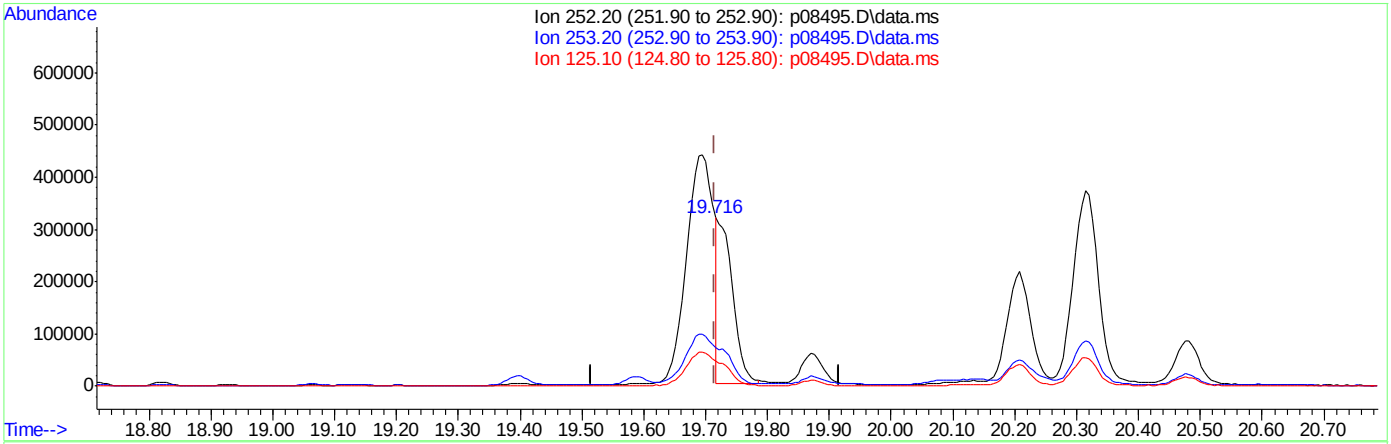
response 1318579

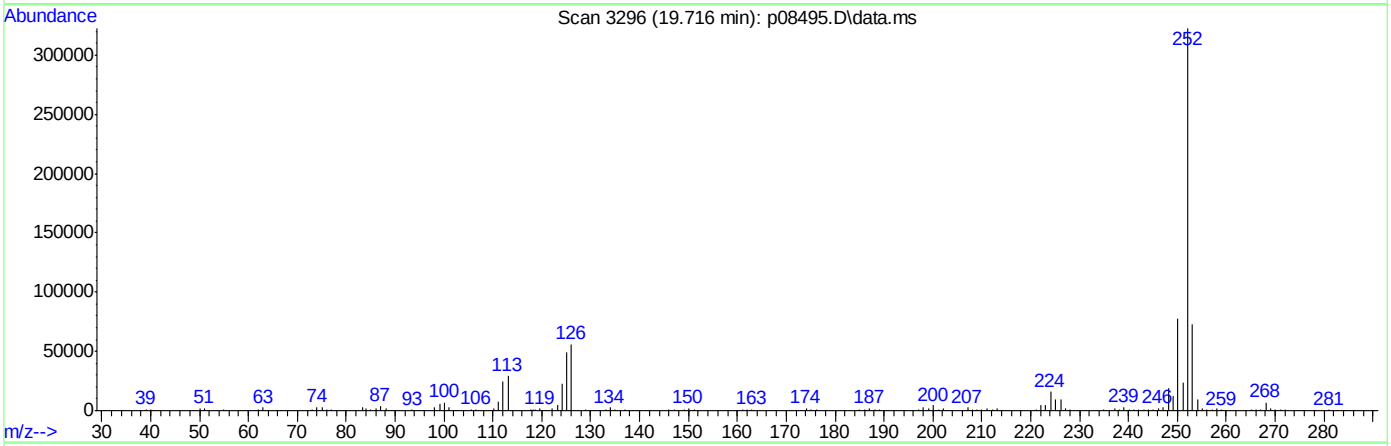
Ion	Exp%	Act%
252.20	100	100
253.20	22.40	31.69
125.10	10.40	20.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08495.D
Acq On : 4 Feb 2010 2:28 am
Operator : garyj
Sample : t46705-7, (x40, 20ml)
Misc : op13984,Ep403,30.16,,,20,40,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 04 12:48:20 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08495.D\data.ms

(97) Benzo[k]fluoranthene

19.716min (-0.000) 20.27ppm m

response 538205

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	76.07#
125.10	10.30	49.56#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	377244	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1423703	40.00	ppm	0.00
46) Acenaphthene-d10	9.083	164	994977	40.00	ppm	0.01
70) Phenanthrene-d10	11.971	188	1213926	40.00	ppm	0.03
85) Chrysene-d12	17.587	240	364128	40.00	ppm	0.06
94) Perylene-d12	20.438	264	151535m	40.00	ppm	0.05
System Monitoring Compounds						
10) 2-Fluorophenol	4.162	112	1840m	0.13	ppm	0.02
Spiked Amount 100.000	Range 26 - 124		Recovery = 0.13%#			
12) Phenol-d5	4.943	99	2020	0.12	ppm	0.04
Spiked Amount 100.000	Range 19 - 106		Recovery = 0.12%#			
26) Nitrobenzene-d5	5.686	82	650m	0.04	ppm	-0.02
Spiked Amount 50.000	Range 18 - 104		Recovery = 0.08%#			
50) 2-Fluorobiphenyl	7.944	172	4506	0.13	ppm	-0.01
Spiked Amount 50.000	Range 21 - 114		Recovery = 0.26%#			
75) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 18 - 129		Recovery = 0.00%#			
88) Terphenyl-d14	15.400	244	3006m	0.32	ppm	0.04
Spiked Amount 50.000	Range 24 - 149		Recovery = 0.64%#			
Target Compounds						Qvalue
13) Phenol	4.954	94	17228	0.94	ppm	78
20) 2-Methylphenol	5.446	108	8638	0.57	ppm	98
24) 3&4-Methylphenol	5.590	108	18009	1.28	ppm #	73
30) 2,4-Dimethylphenol	6.104	107	13027	0.84	ppm	92
35) Naphthalene	6.494	128	1272983	31.85	ppm	99
43) 2-Methylnaphthalene	7.398	142	475038	17.50	ppm	98
44) 1-Methylnaphthalene	7.537	142	313018	11.79	ppm	98
51) 1,1'-Biphenyl	8.104	154	93068	2.59	ppm	99
54) Acenaphthylene	8.826	152	23214	0.49	ppm	70
58) Acenaphthene	9.147	153	2370143	78.06	ppm	98
61) Dibenzofuran	9.452	168	1195922	30.95	ppm	98
66) Fluorene	10.104	166	2321462	75.92	ppm	98
80) Phenanthrene	12.078	178	21635826	669.62	ppm	98
81) Anthracene	12.148	178	4890696m	140.65	ppm	
82) Carbazole	12.490	167	3049385	97.20	ppm	100
84) Fluoranthene	14.587	202	20788742m	580.18	ppm	
87) Pyrene	15.063	202	18213673	1186.26	ppm	96
91) Benzo[a]anthracene	17.560	228	4993477	446.45	ppm	98
92) Chrysene	17.651	228	4654912	439.70	ppm	96
96) Benzo[b]fluoranthene	19.673	252	490042m	87.34	ppm	
97) Benzo[k]fluoranthene	19.711	252	2586932m	518.47	ppm	
98) Benzo[a]pyrene	20.331	252	1046790	223.33	ppm	96
99) Indeno[1,2,3-cd]pyrene	22.914	276	321228	86.17	ppm	84
100) Dibenz[a,h]anthracene	22.936	278	79523	25.40	ppm #	58
101) Benzo[g,h,i]perylene	23.615	276	335740	111.70	ppm	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

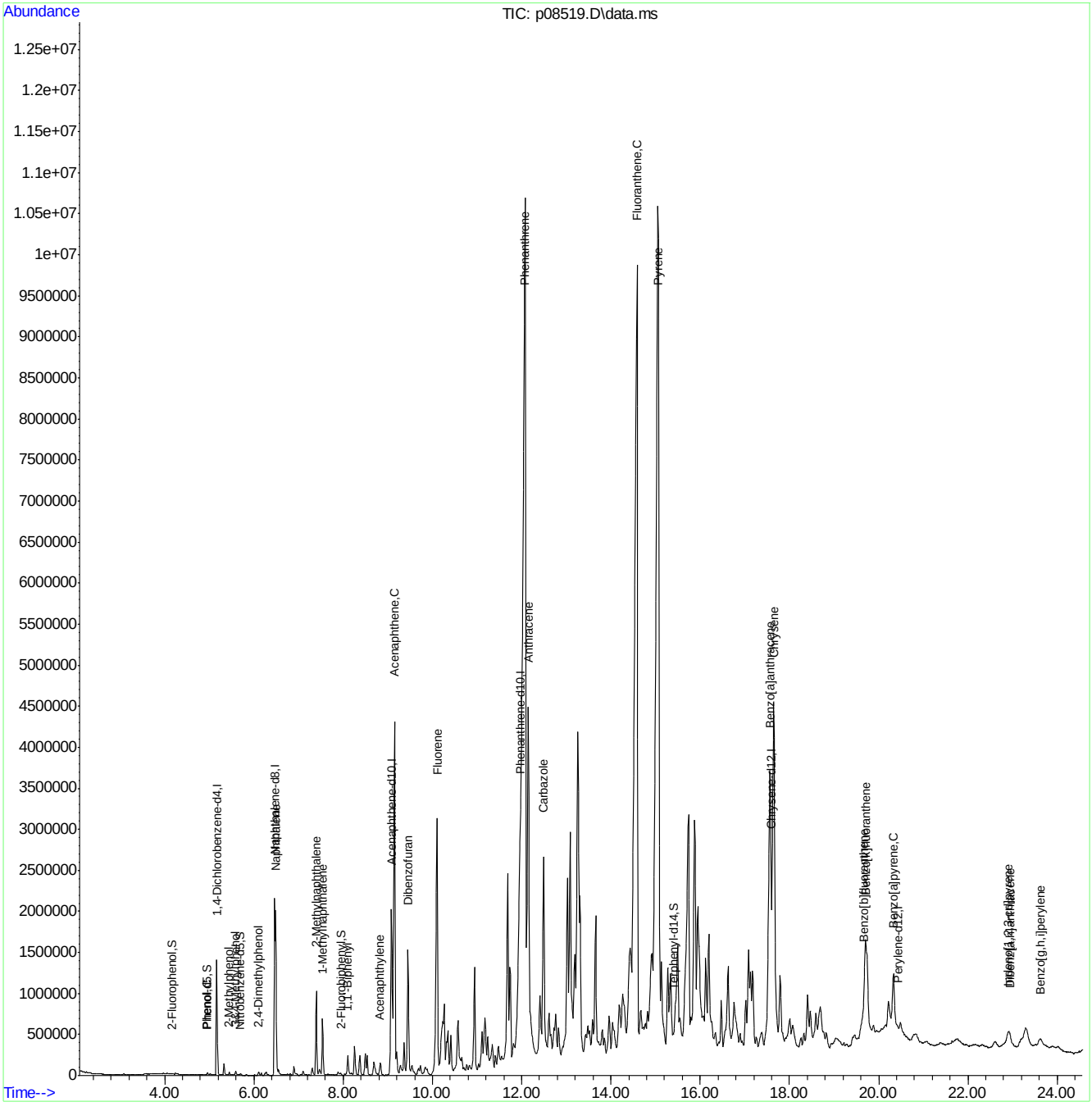
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

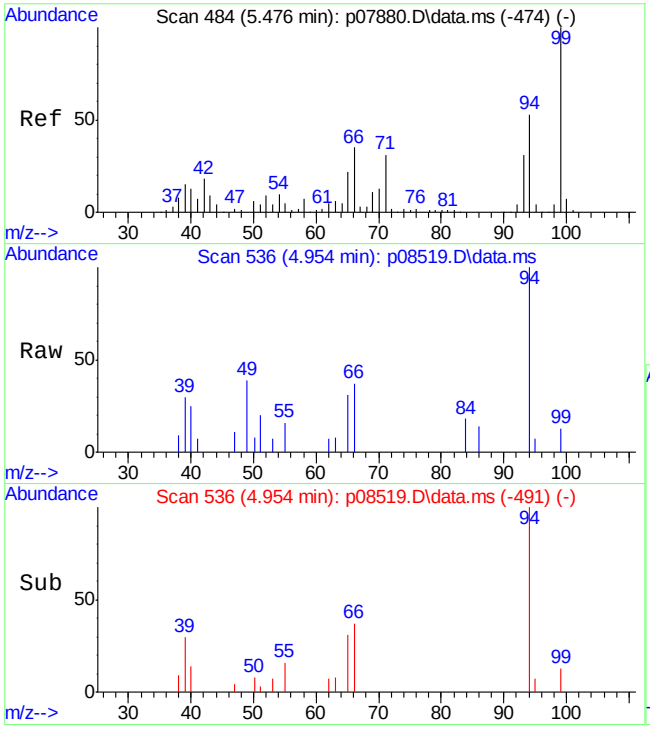
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

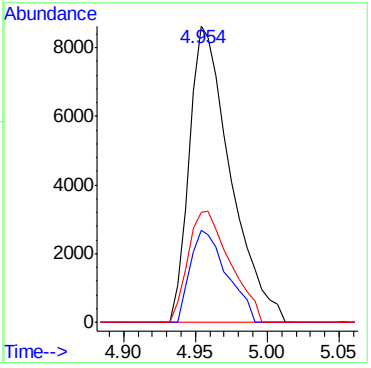


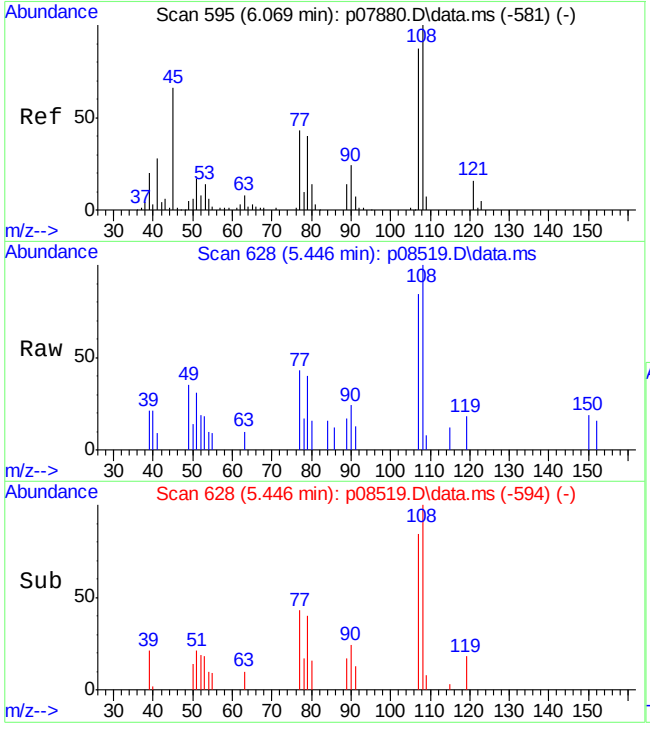


#13
Phenol
Concen: 0.94 ppm
RT: 4.954 min Scan# 536
Delta R.T. 0.041 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion: 94 Resp: 17228

Ion	Ratio	Lower	Upper
94	100		
65	27.5	11.3	71.3
66	38.4	23.8	83.8

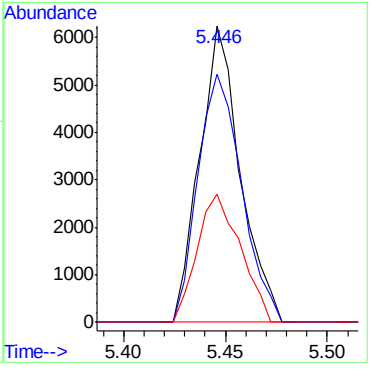


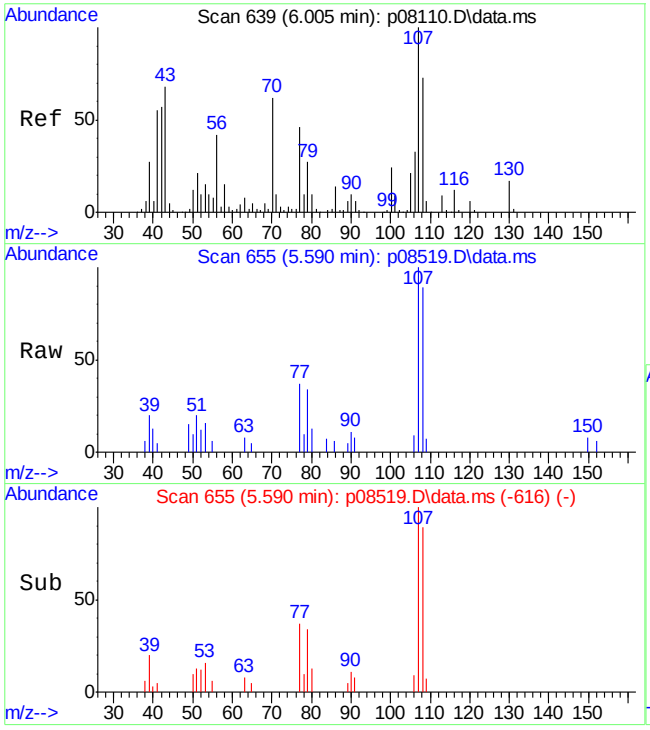


#20
2-Methylphenol
Concen: 0.57 ppm
RT: 5.446 min Scan# 628
Delta R.T. -0.018 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:108 Resp: 8638

Ion	Ratio	Lower	Upper
108	100		
107	90.2	57.6	117.6
77	45.9	14.8	74.8

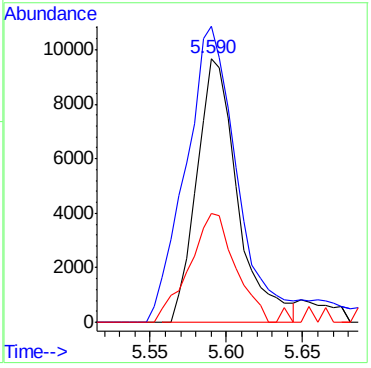


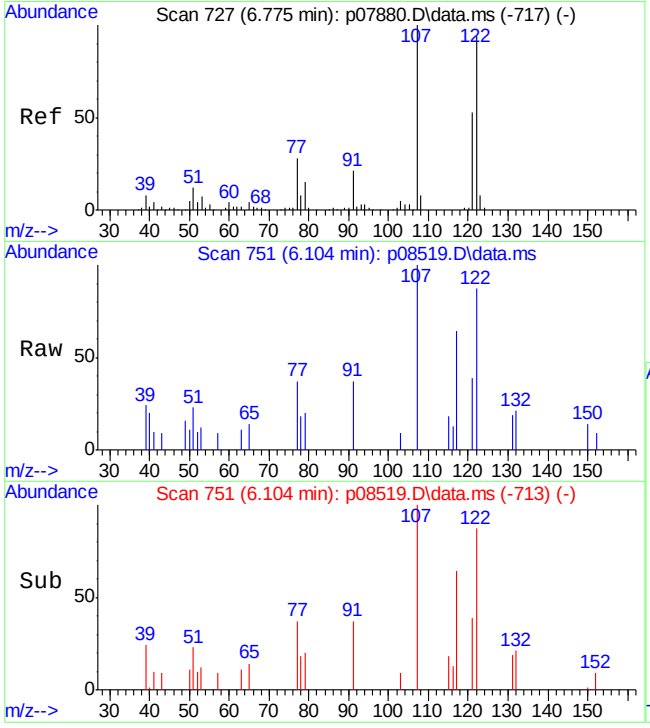


#24
3&4-Methylphenol
Concen: 1.28 ppm
RT: 5.590 min Scan# 655
Delta R.T. 0.006 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:108 Resp: 18009

Ion	Ratio	Lower	Upper
108	100		
107	140.4	153.6	213.6#
77	46.2	30.6	90.6

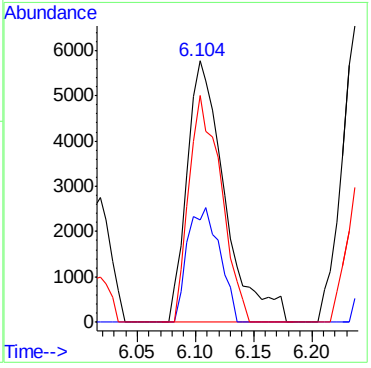


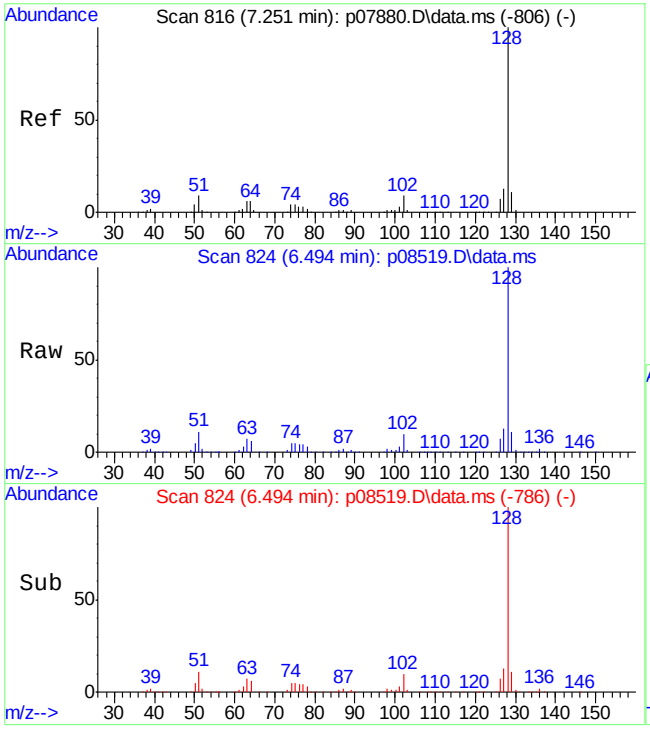


#30
2,4-Dimethylphenol
Concen: 0.84 ppm
RT: 6.104 min Scan# 751
Delta R.T. 0.001 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:107 Resp: 13027

Ion	Ratio	Lower	Upper
107	100		
121	37.2	16.3	76.3
122	73.8	48.1	108.1

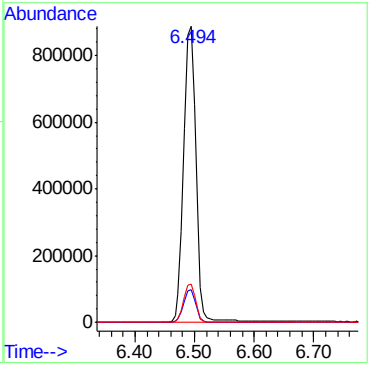


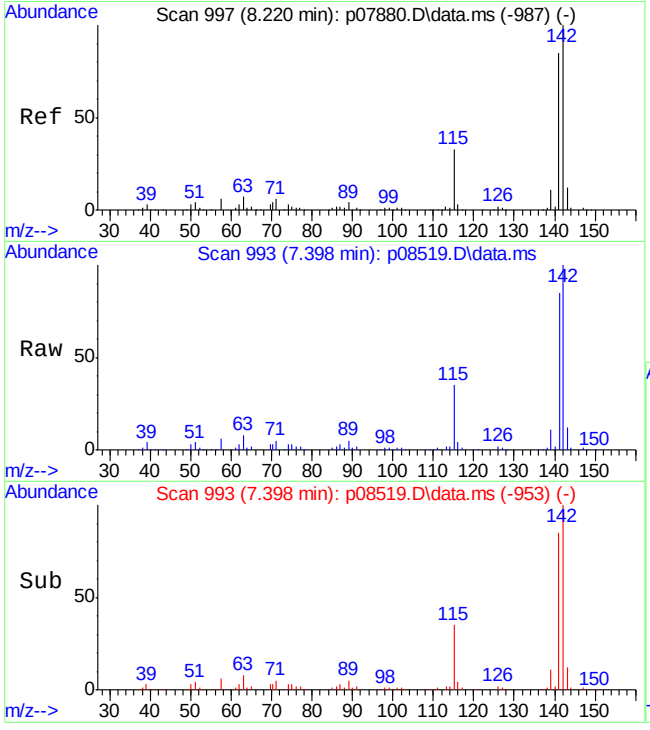


#35
Naphthalene
Concen: 31.85 ppm
RT: 6.494 min Scan# 824
Delta R.T. 0.006 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:128 Resp: 1272983

Ion	Ratio	Lower	Upper
128	100		
129	10.6	0.0	40.9
127	12.5	0.0	43.2

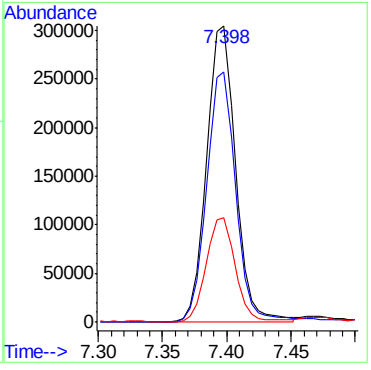


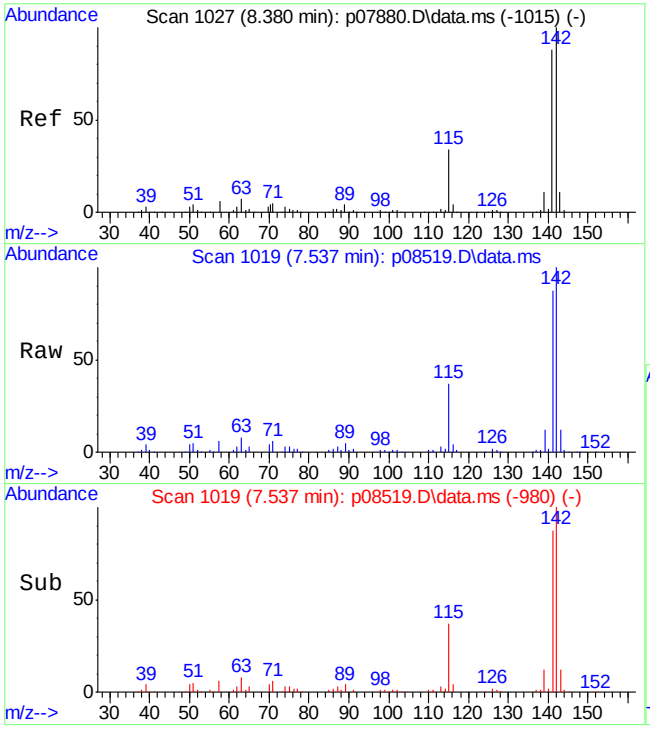


#43
2-Methylnaphthalene
Concen: 17.50 ppm
RT: 7.398 min Scan# 993
Delta R.T. 0.012 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:142 Resp: 475038

Ion	Ratio	Lower	Upper
142	100		
141	85.9	56.1	116.1
115	35.6	9.4	69.4

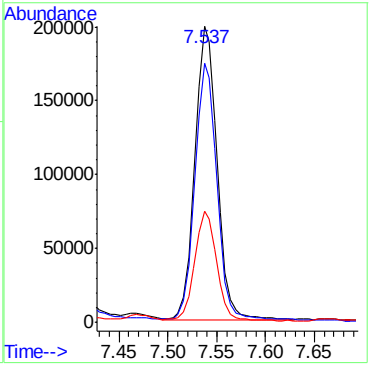


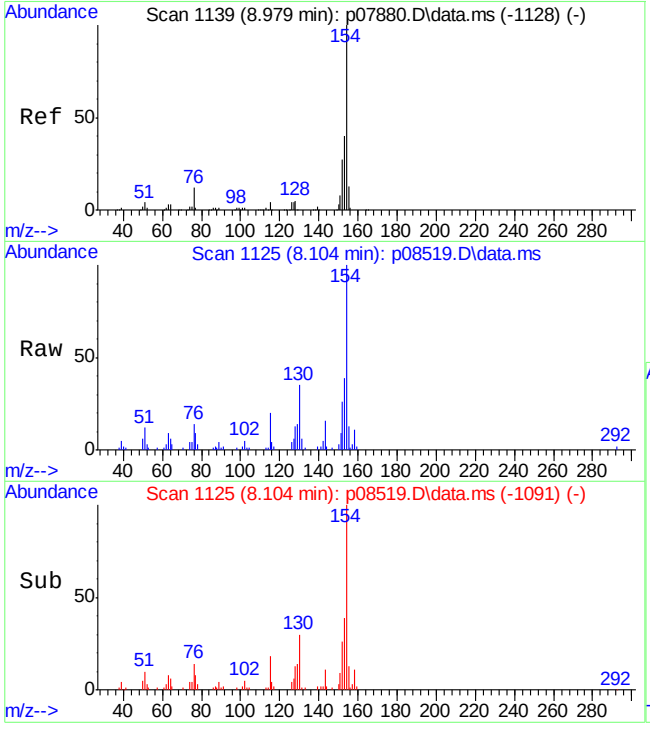


#44
1-Methylnaphthalene
Concen: 11.79 ppm
RT: 7.537 min Scan# 1019
Delta R.T. 0.011 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:142 Resp: 313018

Ion	Ratio	Lower	Upper
142	100		
141	88.6	59.1	119.1
115	36.5	10.7	70.7

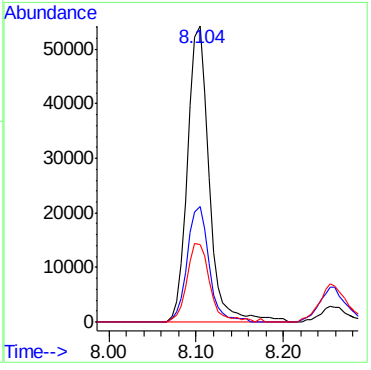


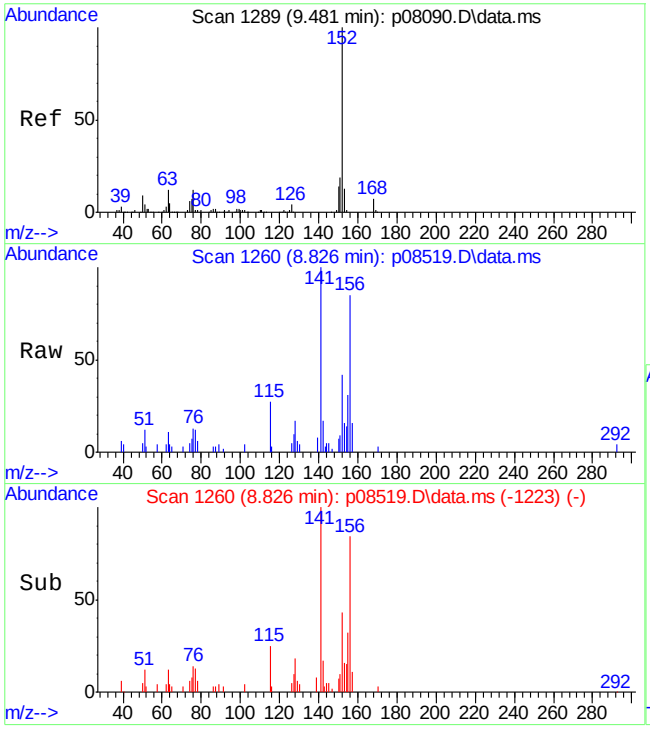


#51
1,1'-Biphenyl
Concen: 2.59 ppm
RT: 8.104 min Scan# 1125
Delta R.T. -0.016 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:154 Resp: 93068

Ion	Ratio	Lower	Upper
154	100		
153	39.4	19.5	59.5
152	28.4	7.5	47.5

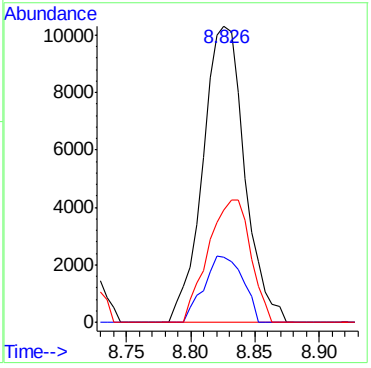


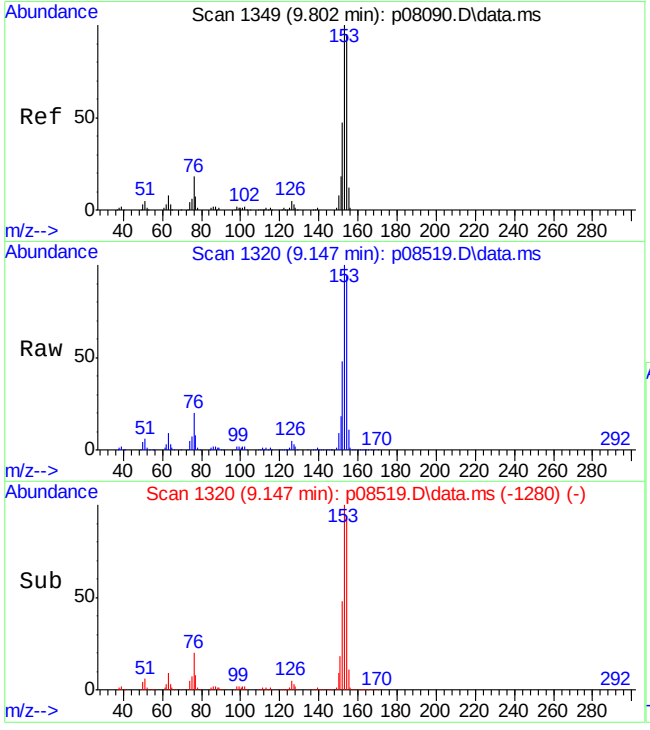


#54
Acenaphthylene
Concen: 0.49 ppm
RT: 8.826 min Scan# 1260
Delta R.T. -0.000 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:152 Resp: 23214

Ion	Ratio	Lower	Upper
152	100		
151	20.8	0.0	49.7
153	42.0	0.0	43.0

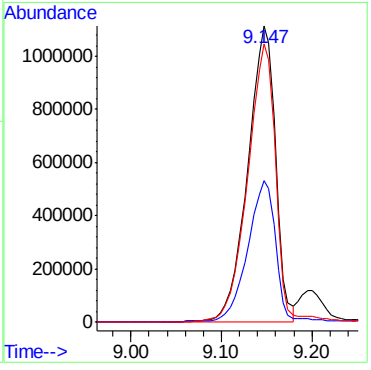




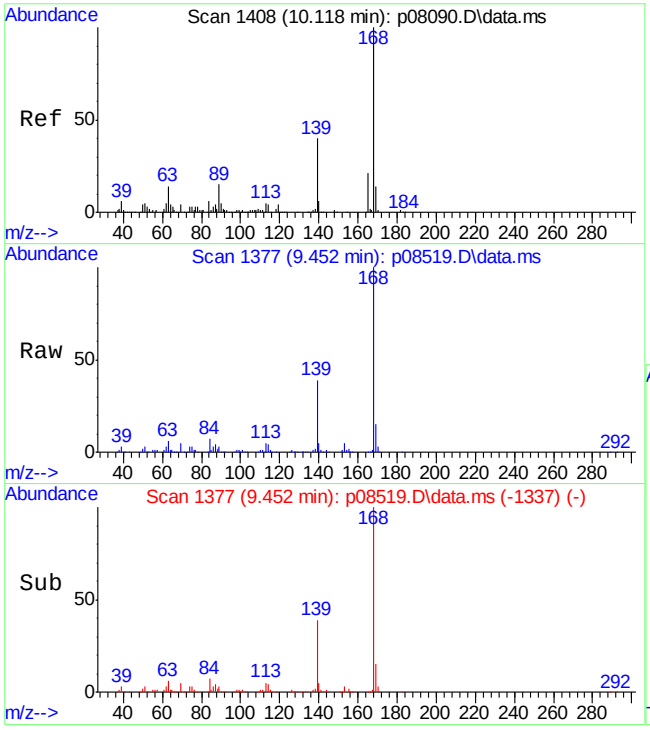
#58
Acenaphthene
Concen: 78.06 ppm
RT: 9.147 min Scan# 1320
Delta R.T. 0.012 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:153 Resp: 2370143

Ion	Ratio	Lower	Upper
153	100		
152	48.9	17.6	77.6
154	95.5	64.0	124.0



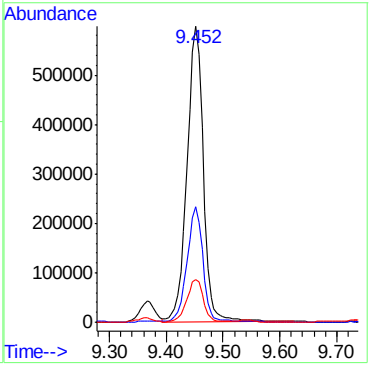
8.1.14
8

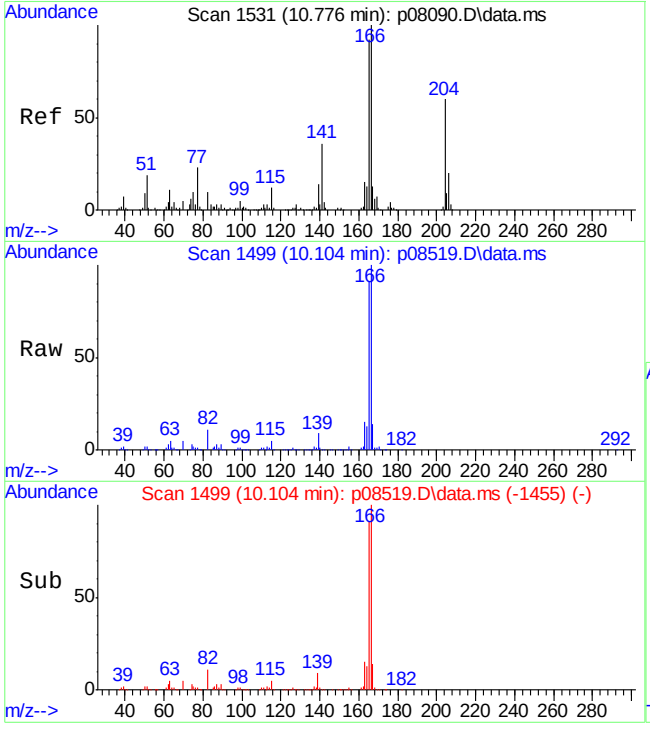


#61
Dibenzofuran
Concen: 30.95 ppm
RT: 9.452 min Scan# 1377
Delta R.T. 0.013 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:168 Resp: 1195922

Ion	Ratio	Lower	Upper
168	100		
139	38.5	10.6	70.6
169	14.9	0.0	44.9

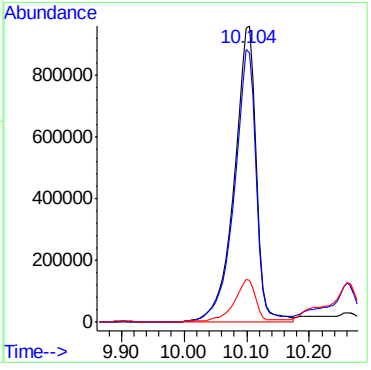




#66
Fluorene
Concen: 75.92 ppm
RT: 10.104 min Scan# 1499
Delta R.T. 0.033 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:166 Resp: 2321462

Ion	Ratio	Lower	Upper
166	100		
165	91.9	63.6	123.6
167	14.5	0.0	43.7



8.1.14

8

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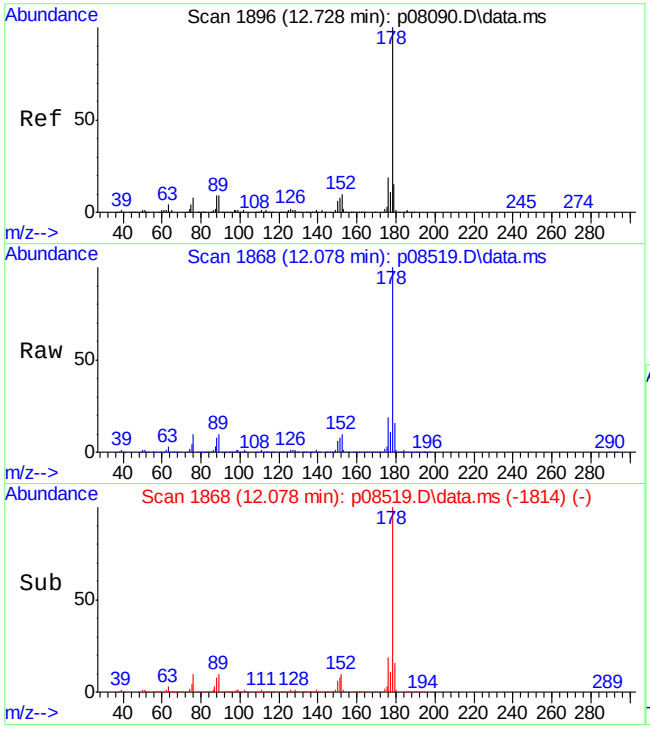
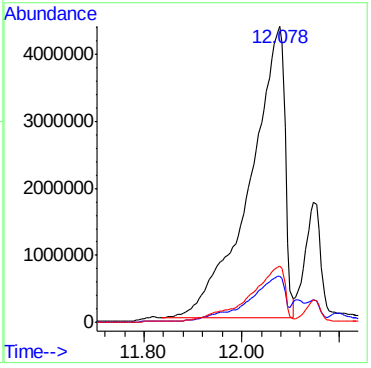
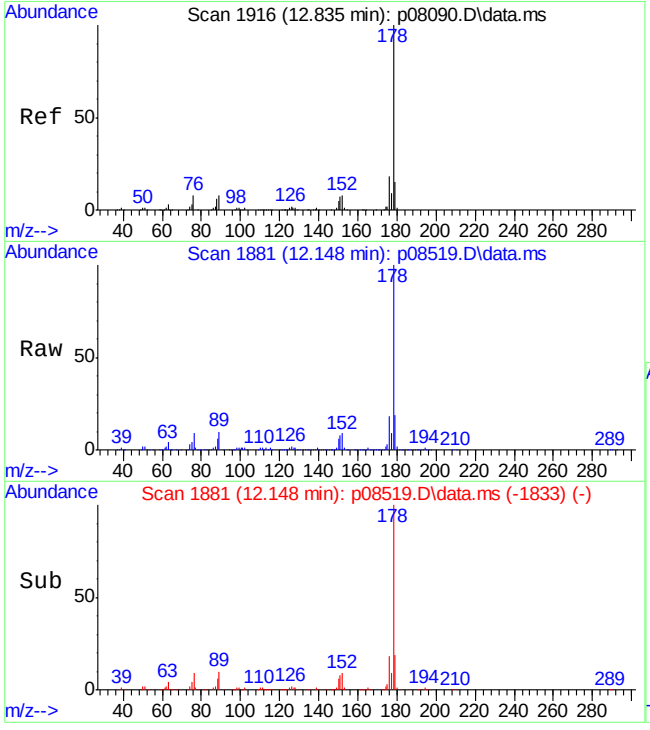


#80
Phenanthrene
Concen: 669.62 ppm
RT: 12.078 min Scan# 1868
Delta R.T. 0.086 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:178 Resp:21635826

Ion	Ratio	Lower	Upper
178	100		
179	16.3	0.0	45.3
176	19.0	0.0	49.4

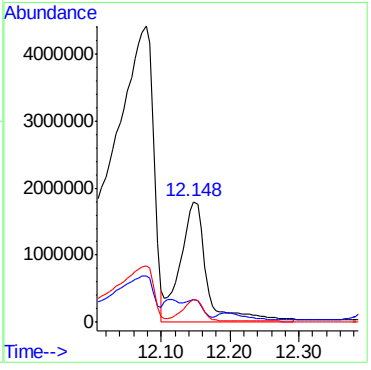


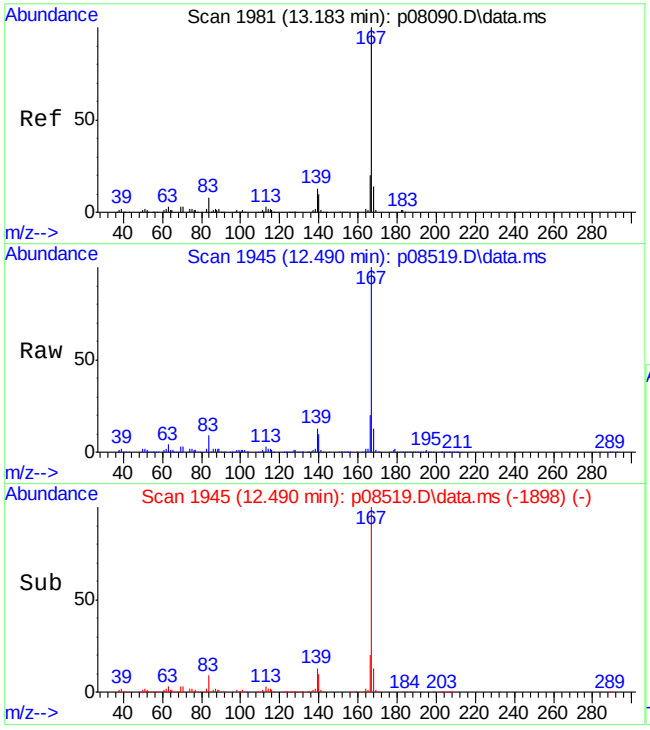


#81
Anthracene
Concen: 140.65 ppm m
RT: 12.148 min Scan# 1881
Delta R.T. 0.056 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:178 Resp: 4890696

Ion	Ratio	Lower	Upper
178	100		
179	50.9	0.0	45.0#
176	71.6	0.0	48.4#

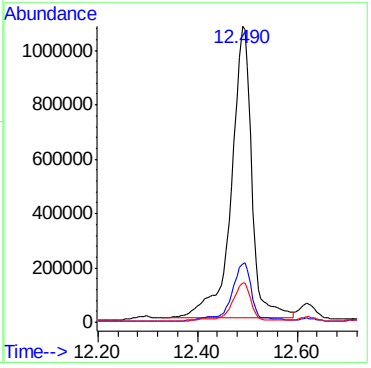


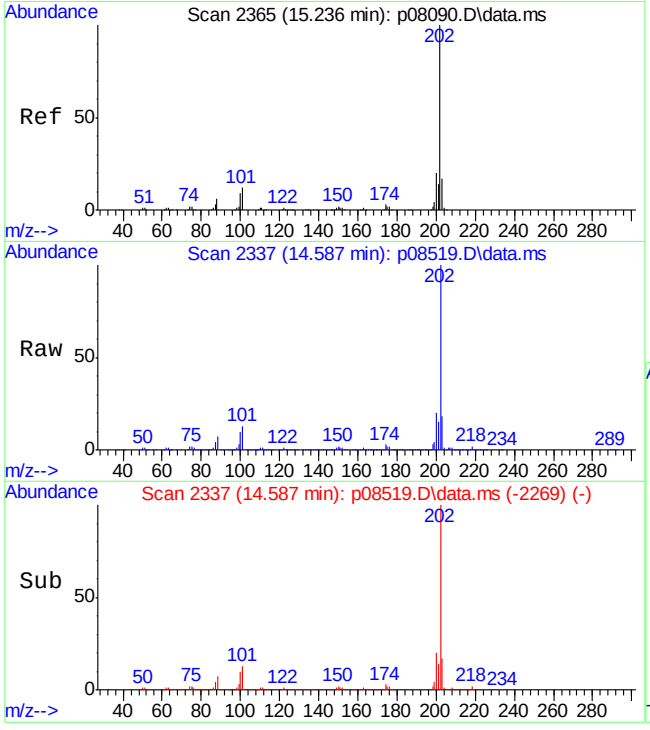


#82
Carbazole
Concen: 97.20 ppm
RT: 12.490 min Scan# 1945
Delta R.T. 0.052 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:167 Resp: 3049385

Ion	Ratio	Lower	Upper
167	100		
166	20.2	0.0	50.0
139	13.2	0.0	43.3

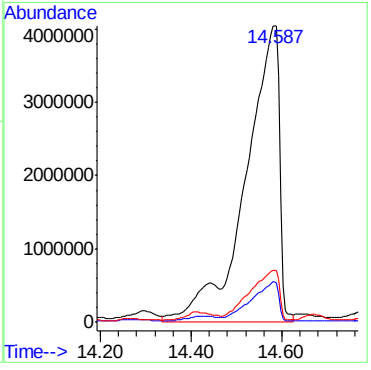


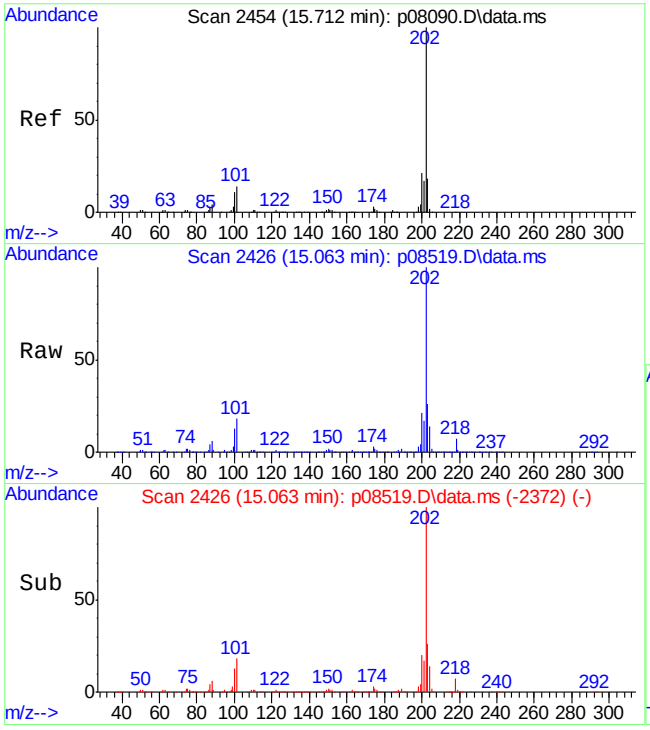


#84
Fluoranthene
Concen: 580.18 ppm m
RT: 14.587 min Scan# 2337
Delta R.T. 0.165 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:202 Resp:20788742

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	43.1
203	0.0	0.0	47.4

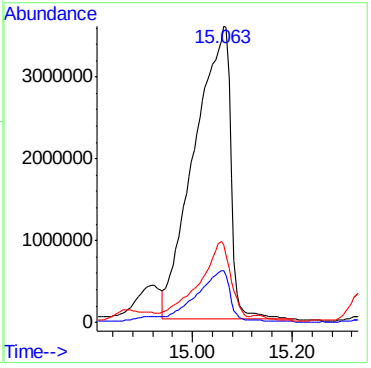


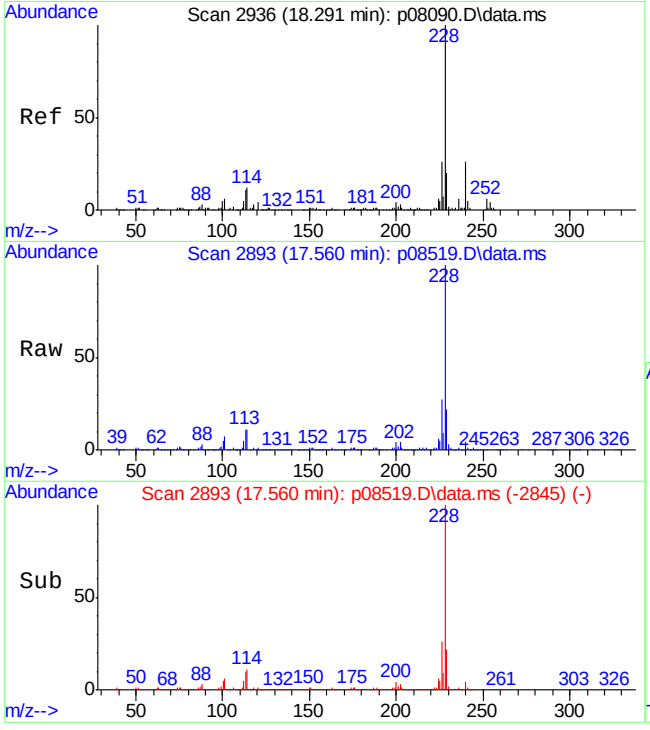


#87
Pyrene
Concen: 1186.26 ppm
RT: 15.063 min Scan# 2426
Delta R.T. 0.090 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:202 Resp:18213673

Ion	Ratio	Lower	Upper
202	100		
101	16.1	0.0	45.7
203	21.0	0.0	47.8

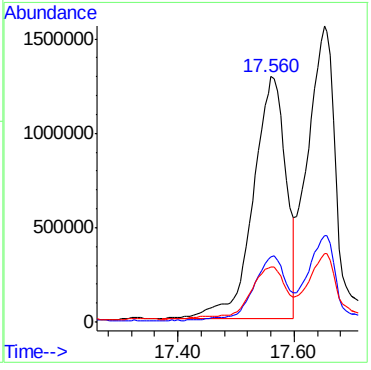


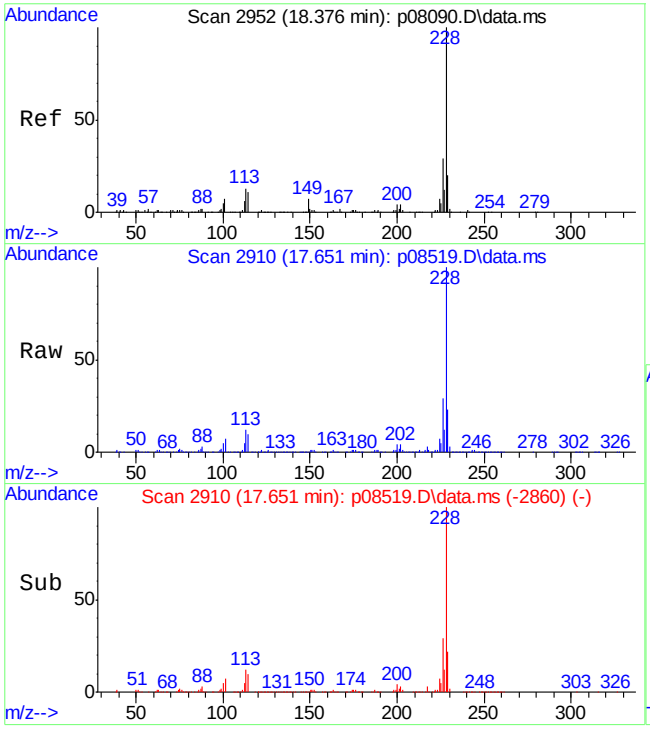


#91
Benzo[a]anthracene
Concen: 446.45 ppm
RT: 17.560 min Scan# 2893
Delta R.T. 0.058 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:228 Resp: 4993477

Ion	Ratio	Lower	Upper
228	100		
226	26.2	0.0	55.8
229	21.6	0.0	49.5

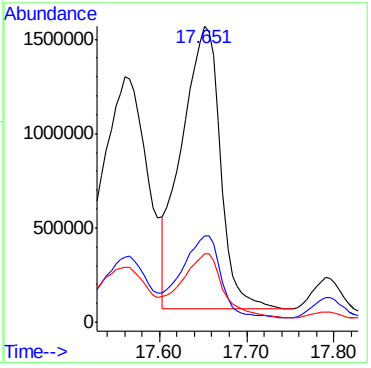


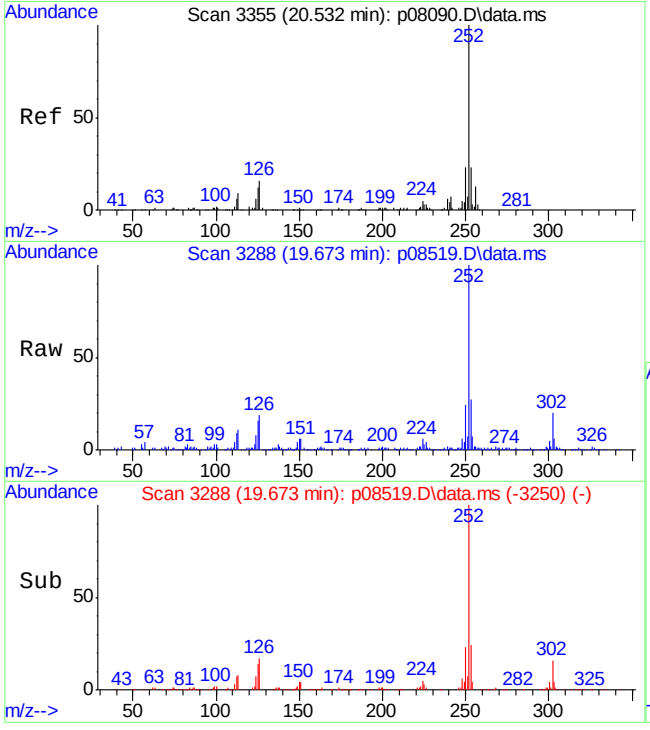


#92
Chrysene
Concen: 439.70 ppm
RT: 17.651 min Scan# 2910
Delta R.T. 0.070 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:228 Resp: 4654912

Ion	Ratio	Lower	Upper
228	100		
226	29.0	0.0	58.9
229	23.7	0.0	49.6

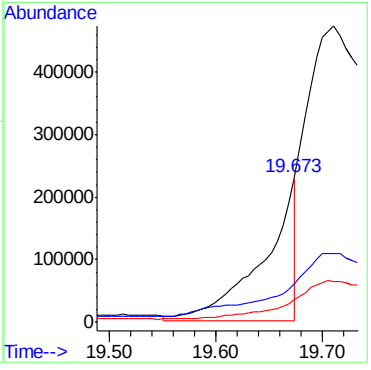


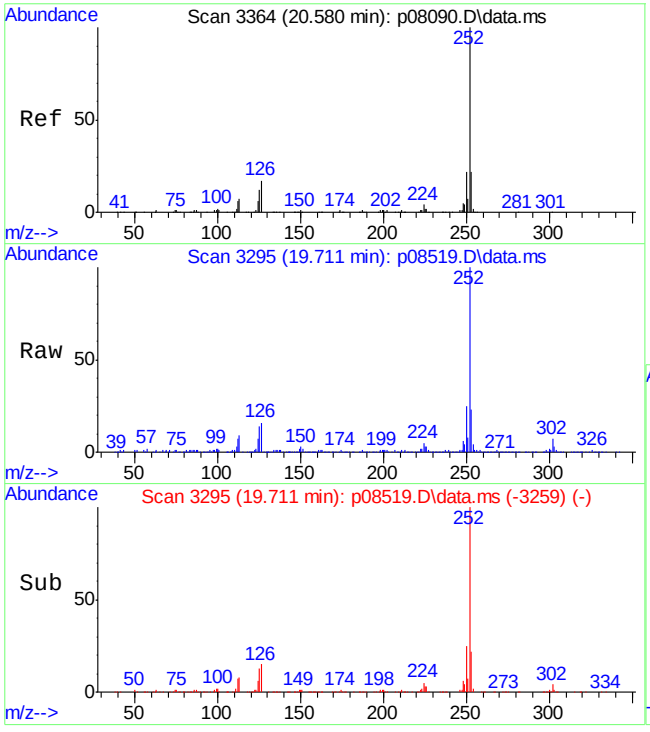


#96
Benzo[b]fluoranthene
Concen: 87.34 ppm m
RT: 19.673 min Scan# 3288
Delta R.T. 0.005 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:252 Resp: 490042

Ion	Ratio	Lower	Upper
252	100		
253	137.6	0.0	52.4#
125	76.6	0.0	40.4#

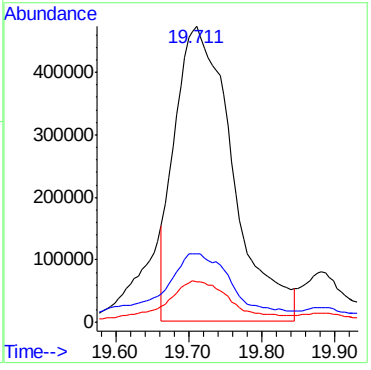


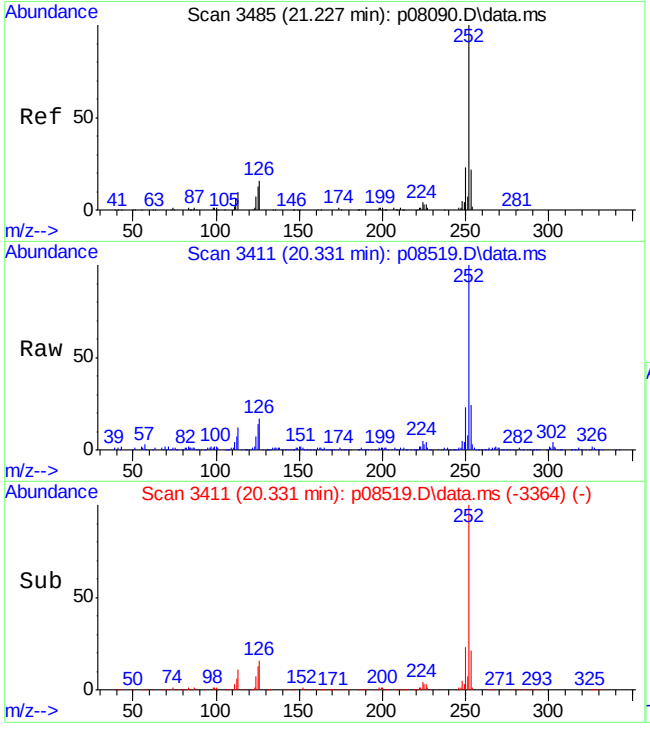


#97
Benzo[k]fluoranthene
Concen: 518.47 ppm m
RT: 19.711 min Scan# 3295
Delta R.T. -0.006 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:252 Resp: 2586932

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	51.8
125	13.7	0.0	40.3

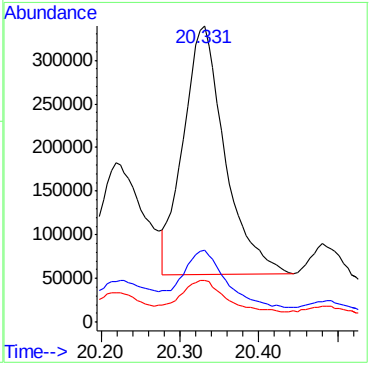


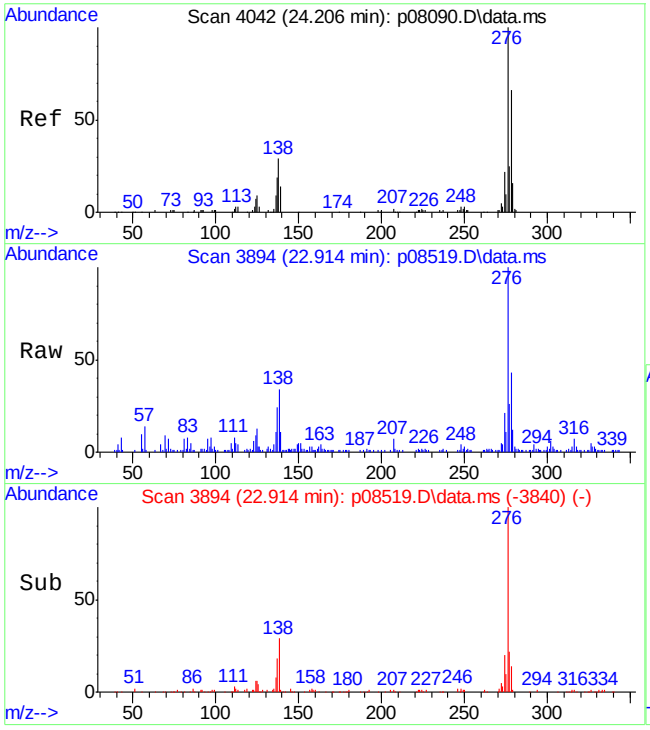


#98
Benzo[a]pyrene
Concen: 223.33 ppm
RT: 20.331 min Scan# 3411
Delta R.T. 0.053 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:252 Resp: 1046790

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	51.9
125	12.9	0.0	41.6

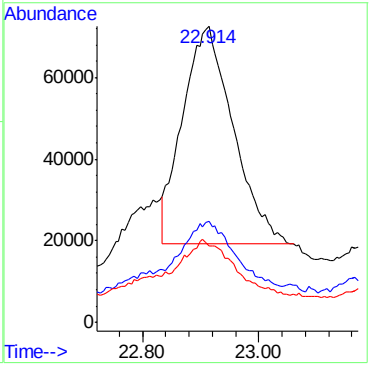


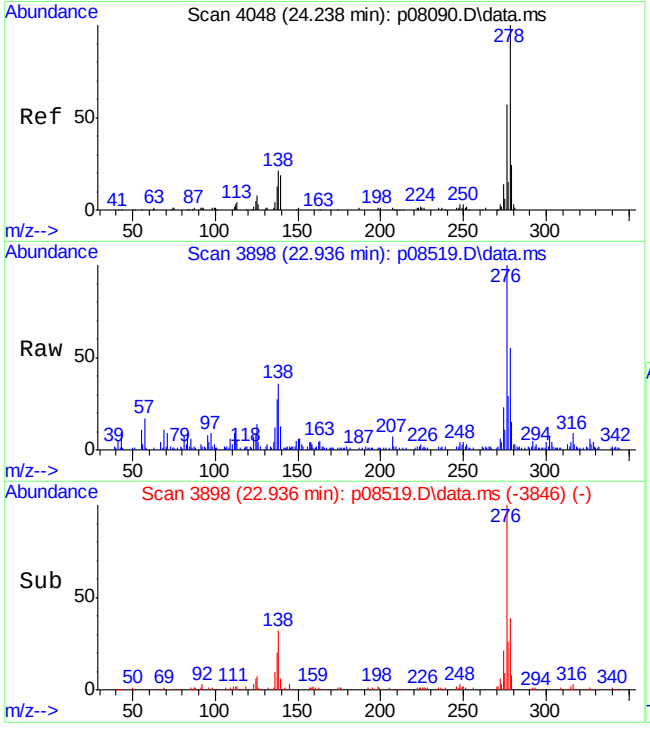


#99
Indeno[1,2,3-cd]pyrene
Concen: 86.17 ppm
RT: 22.914 min Scan# 3894
Delta R.T. 0.091 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:276 Resp: 321228

Ion	Ratio	Lower	Upper
276	100		
138	29.2	0.0	58.3
277	41.1	0.0	54.4

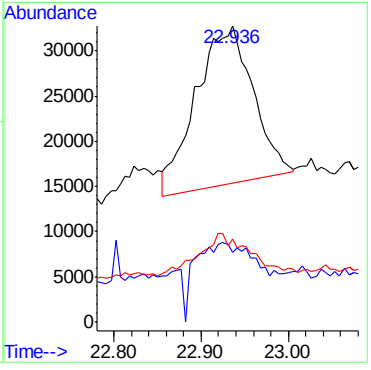


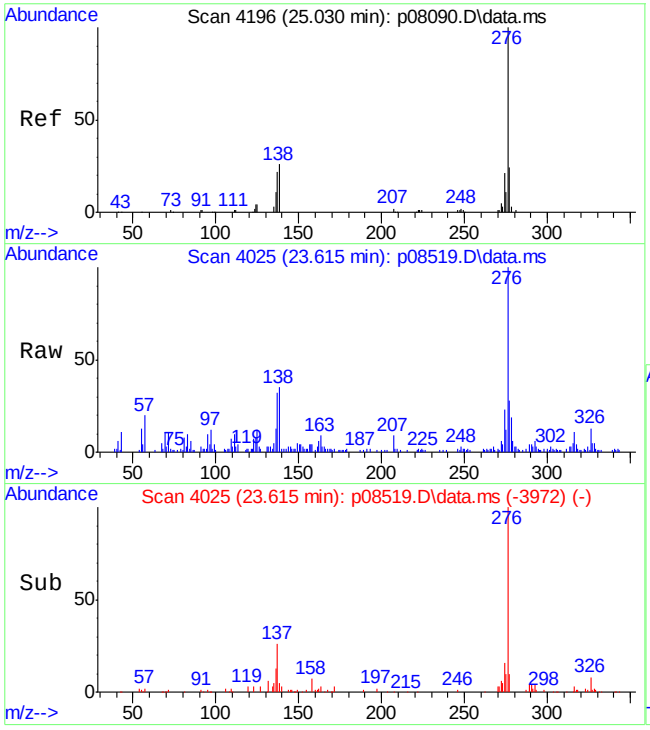


#100
Dibenz[a,h]anthracene
Concen: 25.40 ppm
RT: 22.936 min Scan# 3898
Delta R.T. 0.080 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:278 Resp: 79523

Ion	Ratio	Lower	Upper
278	100		
139	60.6	0.0	49.1#
279	25.0	0.0	54.0

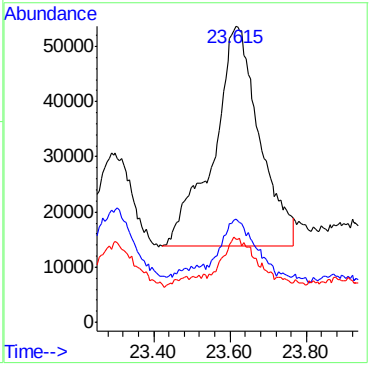




#101
Benzo[g,h,i]perylene
Concen: 111.70 ppm
RT: 23.615 min Scan# 4025
Delta R.T. 0.085 min
Lab File: p08519.D
Acq: 4 Feb 2010 6:20 pm

Tgt Ion:276 Resp: 335740

Ion	Ratio	Lower	Upper
276	100		
138	18.8	0.0	56.4
277	11.4	0.0	54.0



8.1.14

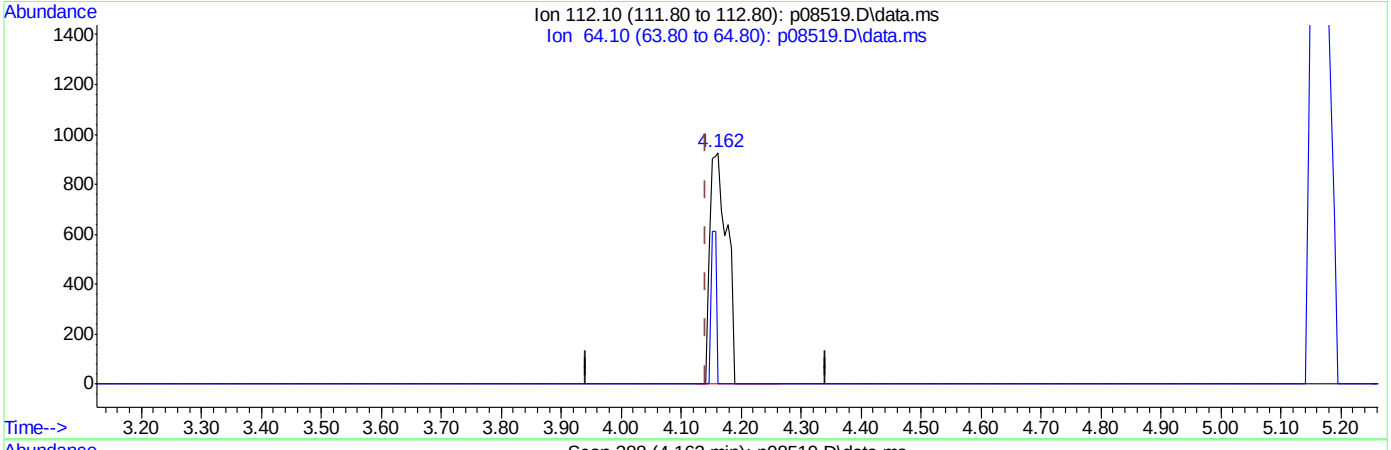
8

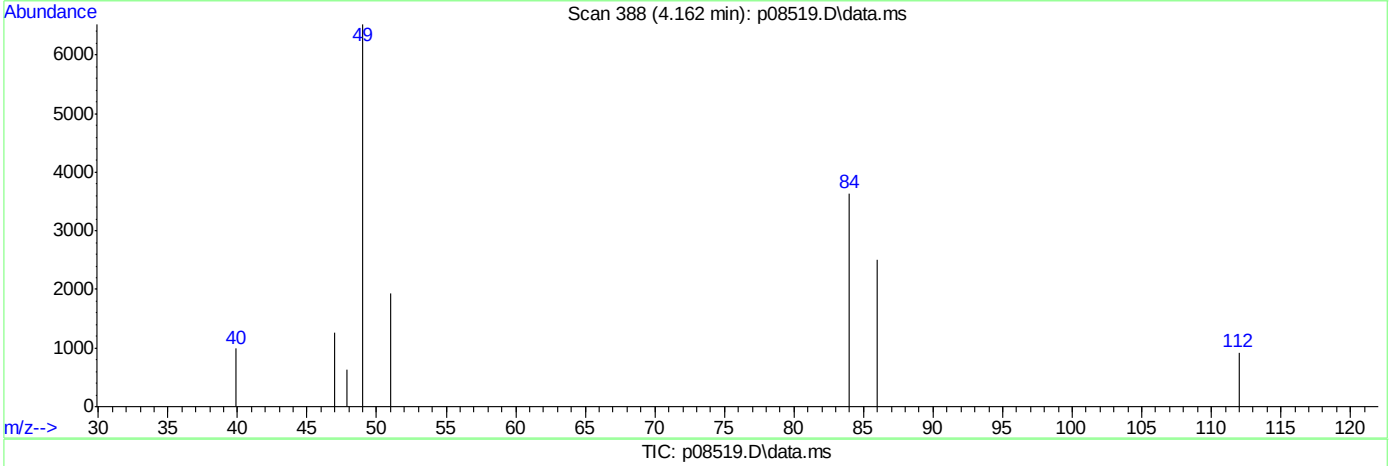
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(10) 2-Fluorophenol (S)

4.162min (+0.020) 0.13ppm m

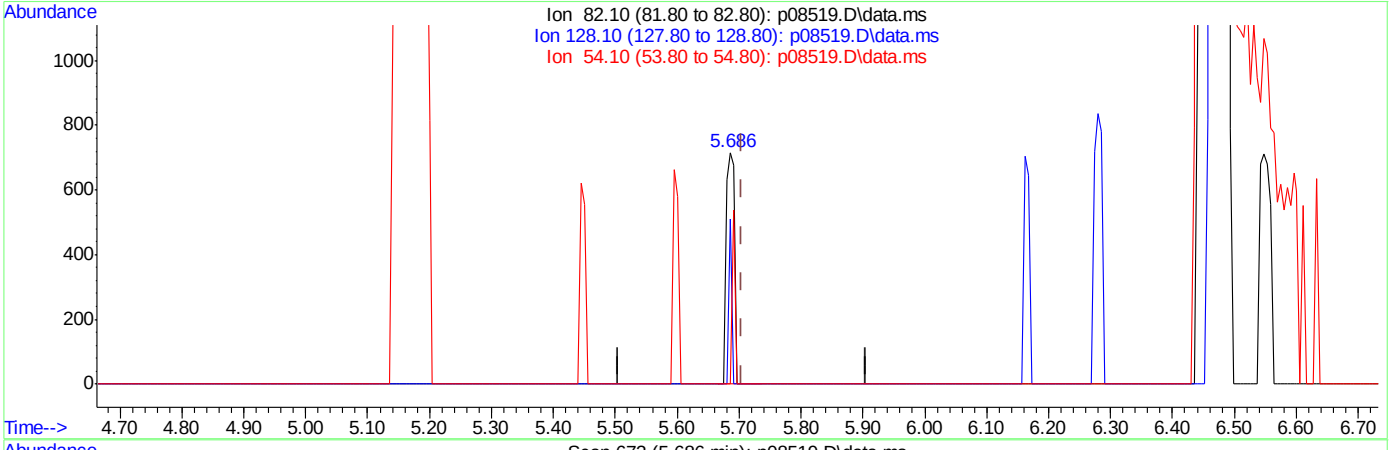
response 1840

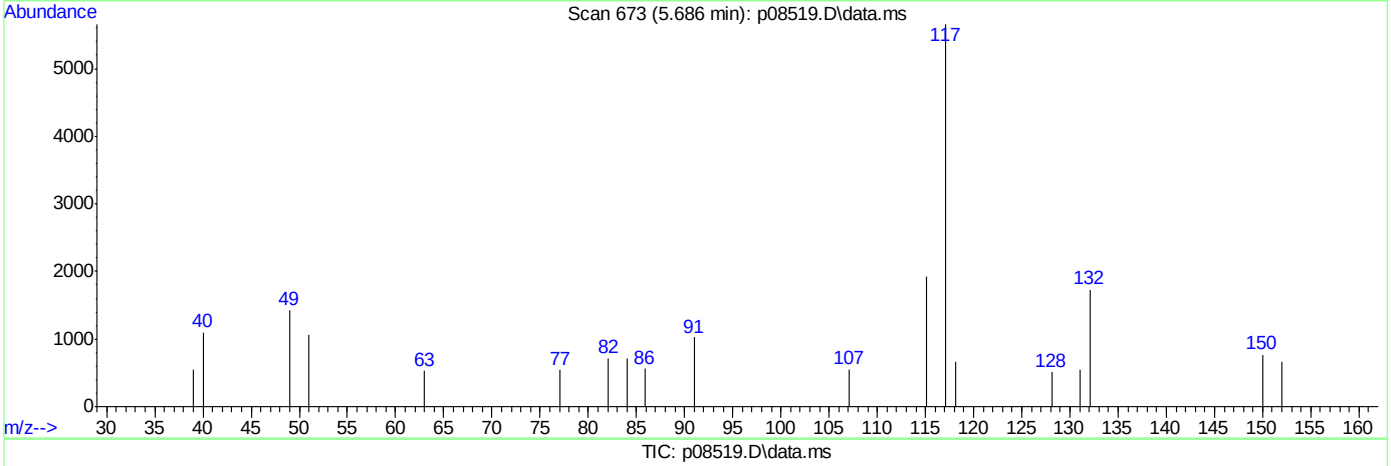
Ion	Exp%	Act%
112.10	100	100
64.10	64.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(26) Nitrobenzene-d5 (S)

5.686min (-0.019) 0.04ppm m

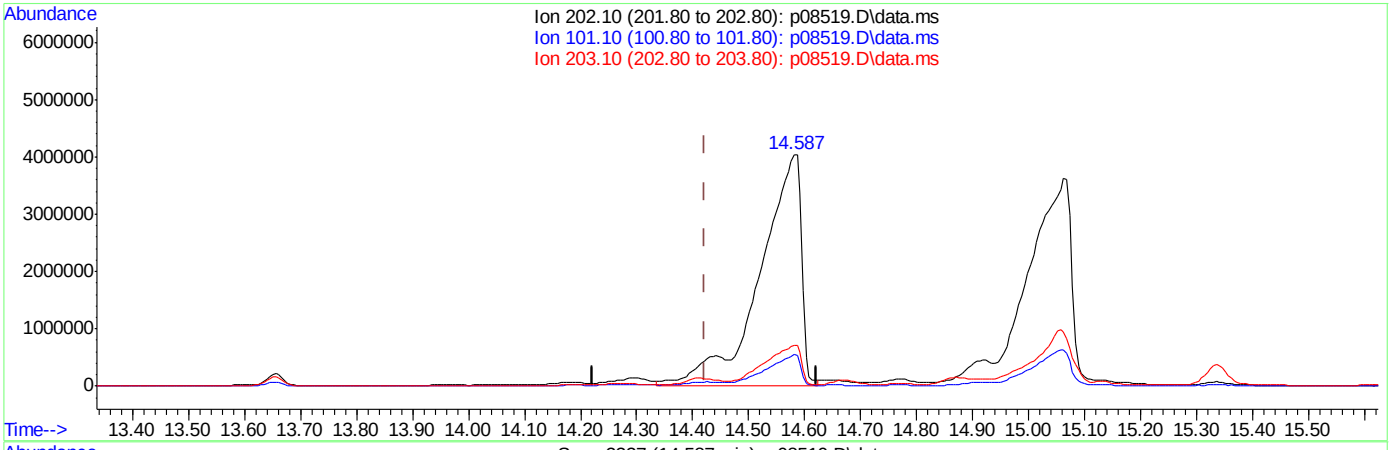
response 650

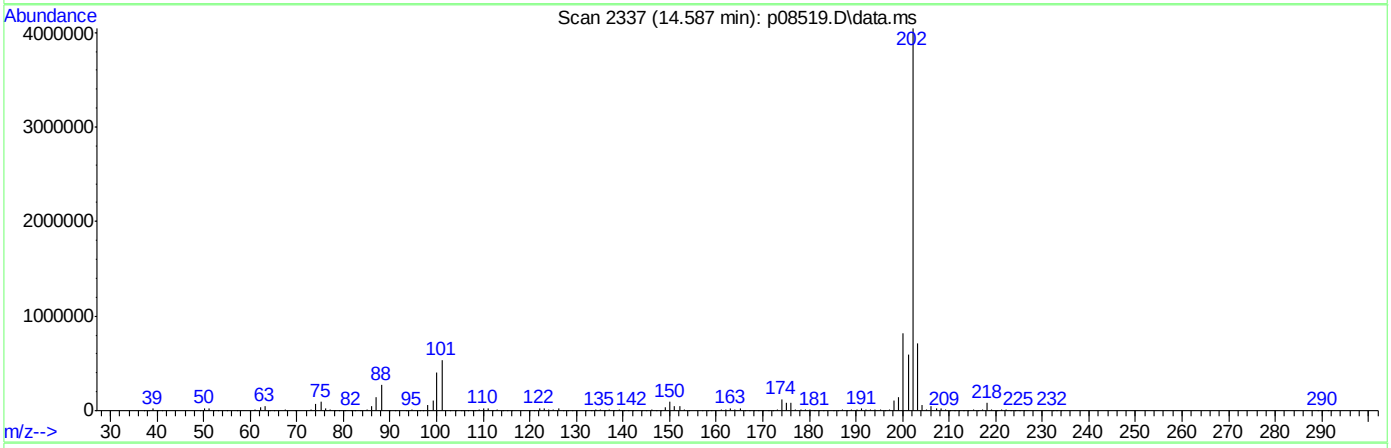
Ion	Exp%	Act%
82.10	100	100
128.10	39.00	0.00#
54.10	61.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On    :  4 Feb 2010   6:20 pm
Operator  : garyj
Sample    : t46705-7, (x4, 20ml)
Misc      : op13984,Ep404,30.16,,,20,4,soil
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08519.D\data.ms

(84) Fluoranthene (C)

14.587min (+0.165) 580.18ppm m

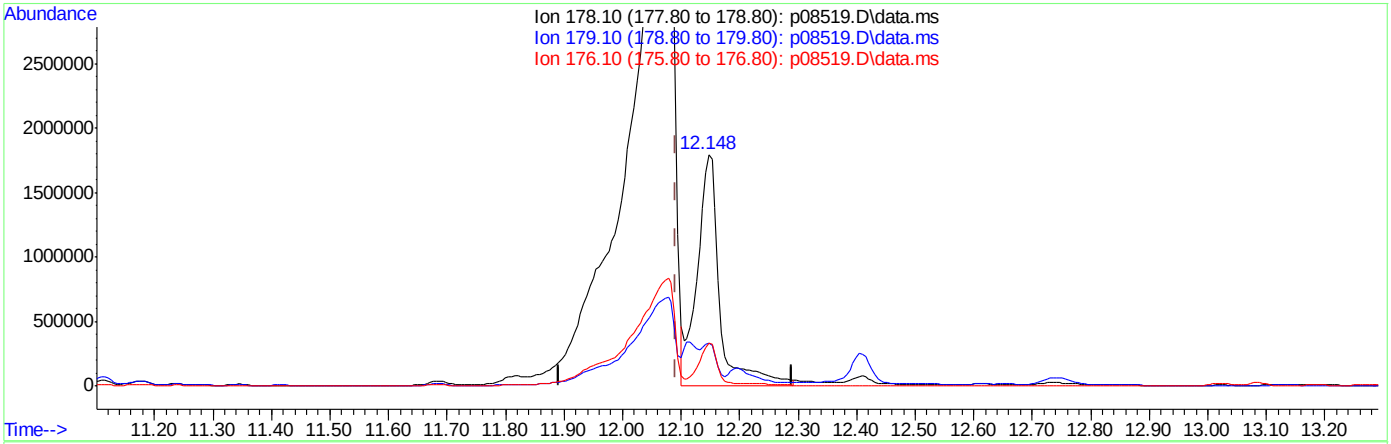
response 20788742

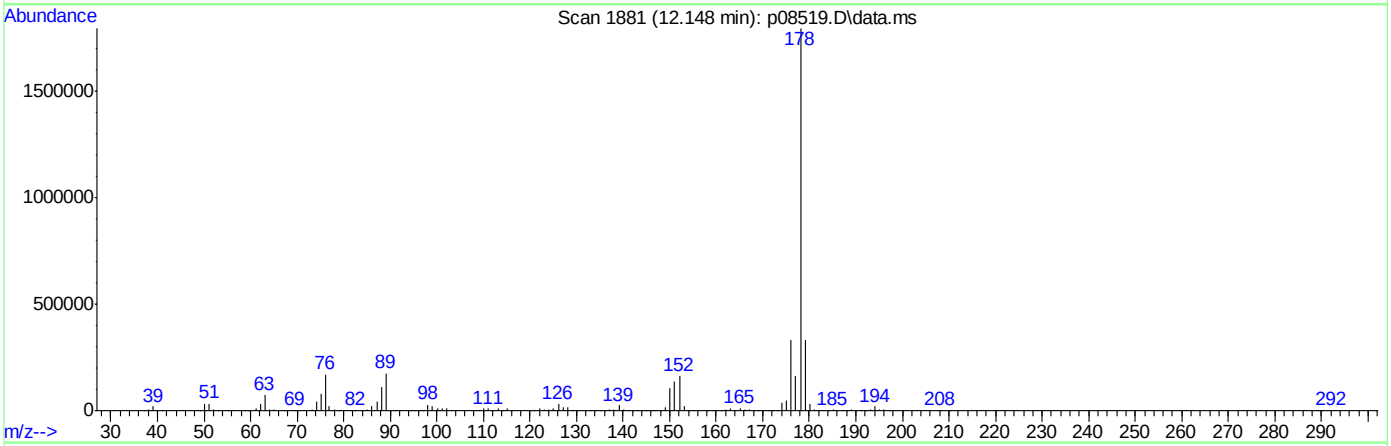
Ion	Exp%	Act%
202.10	100	100
101.10	13.10	0.00
203.10	17.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On    :  4 Feb 2010   6:20 pm
Operator  : garyj
Sample    : t46705-7, (x4, 20ml)
Misc      : op13984,Ep404,30.16,,,20,4,soil
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08519.D\data.ms

(81) Anthracene

12.148min (+0.056) 140.65ppm m

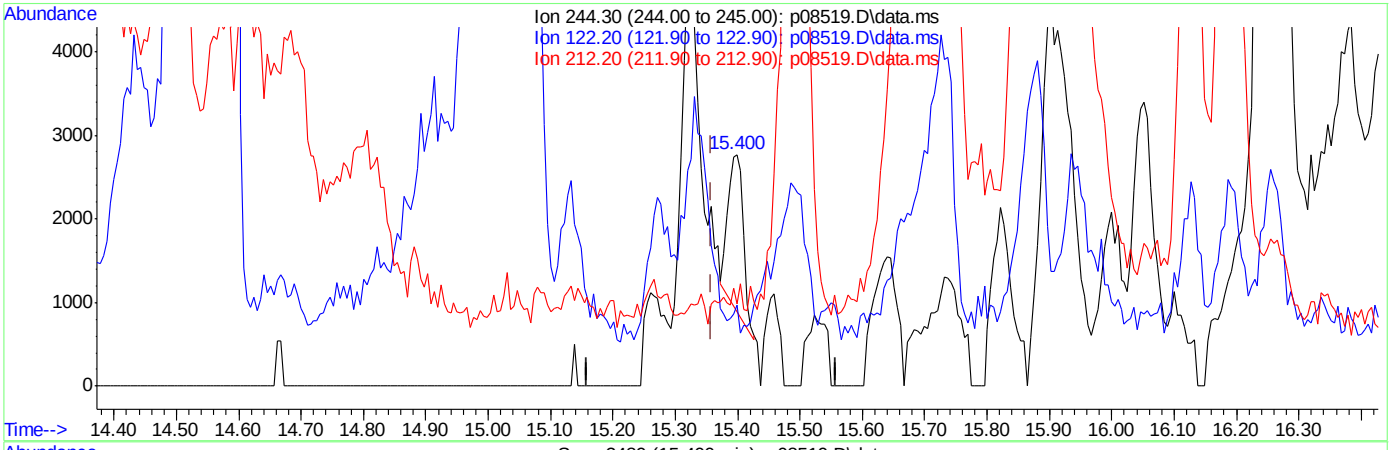
response 4890696

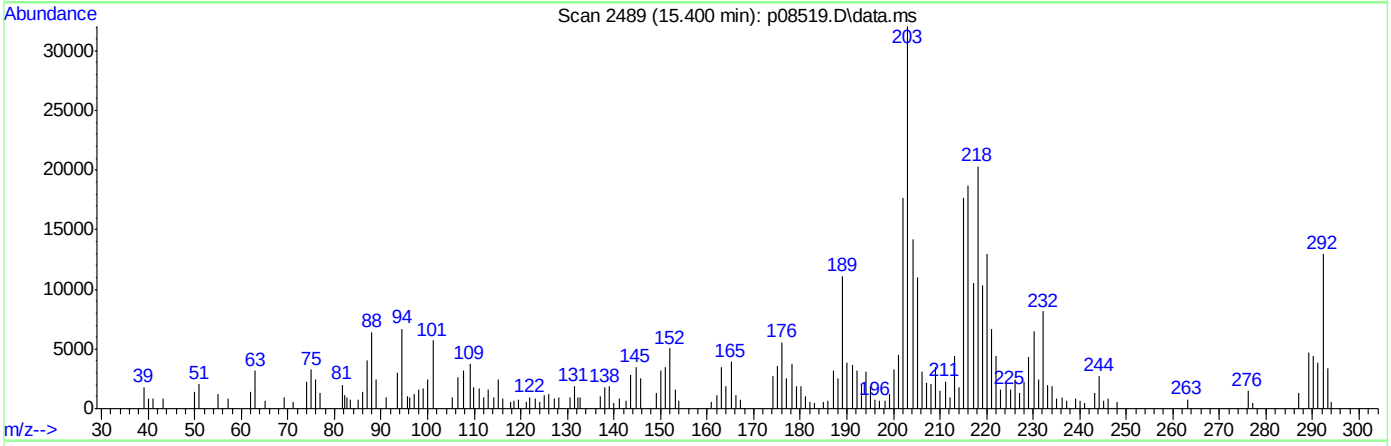
Ion	Exp%	Act%
178.10	100	100
179.10	15.00	50.89#
176.10	18.40	71.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(88) Terphenyl-d14 (S)

15.400min (+0.041) 0.32ppm m

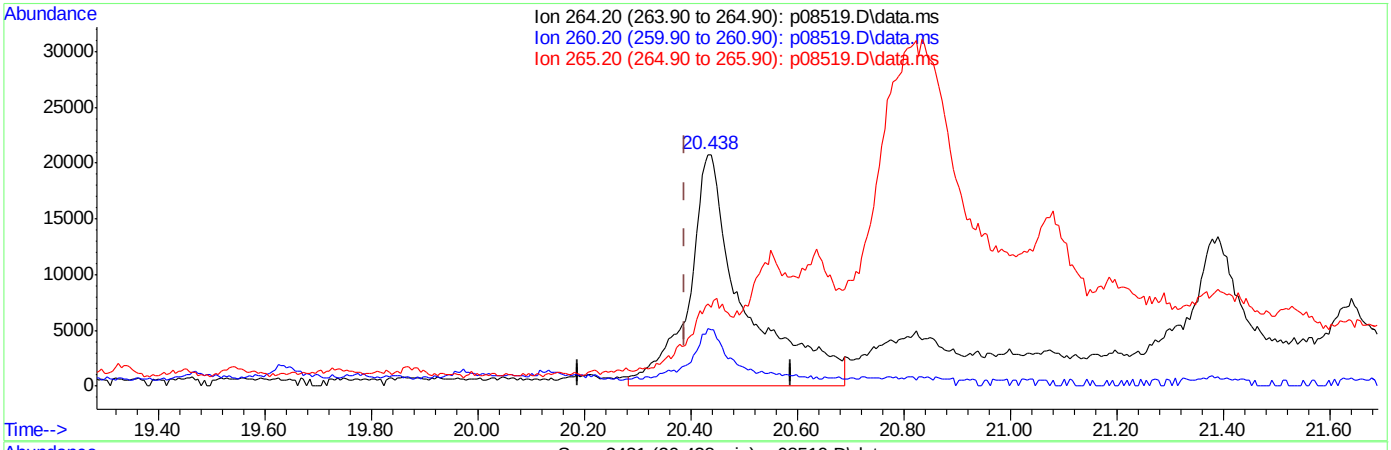
response 3006

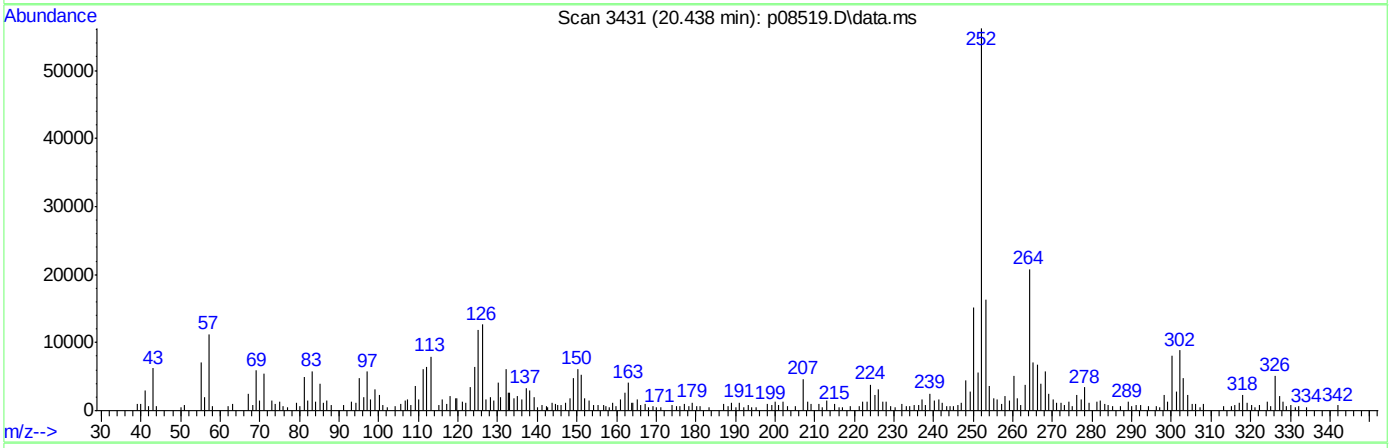
Ion	Exp%	Act%
244.30	100	100
122.20	12.10	0.00
212.20	7.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(94) Perylene-d12 (I)

20.438min (+0.048) 40.00ppm m

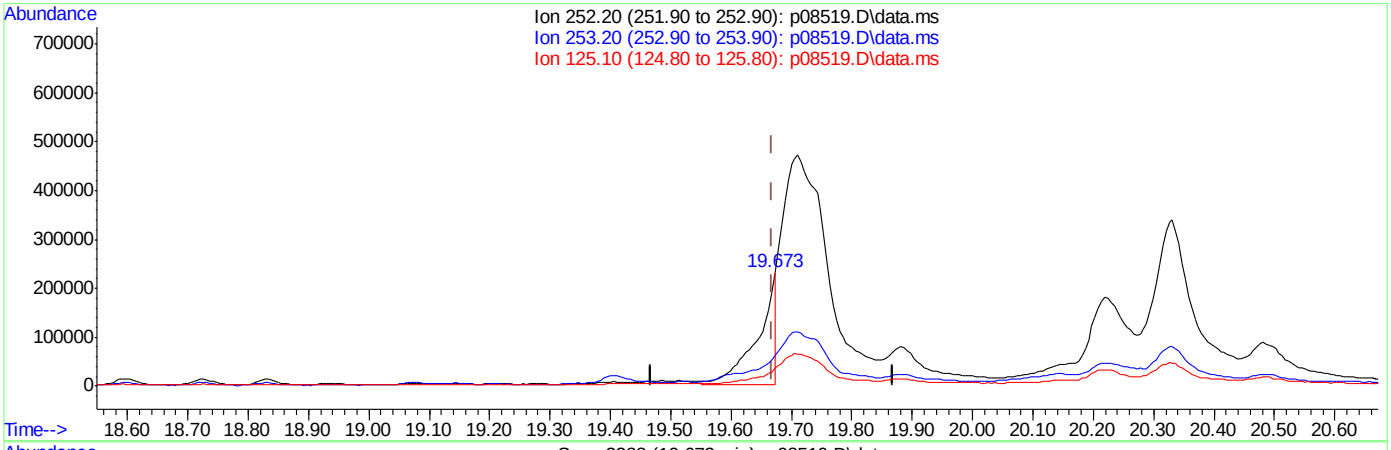
response 151535

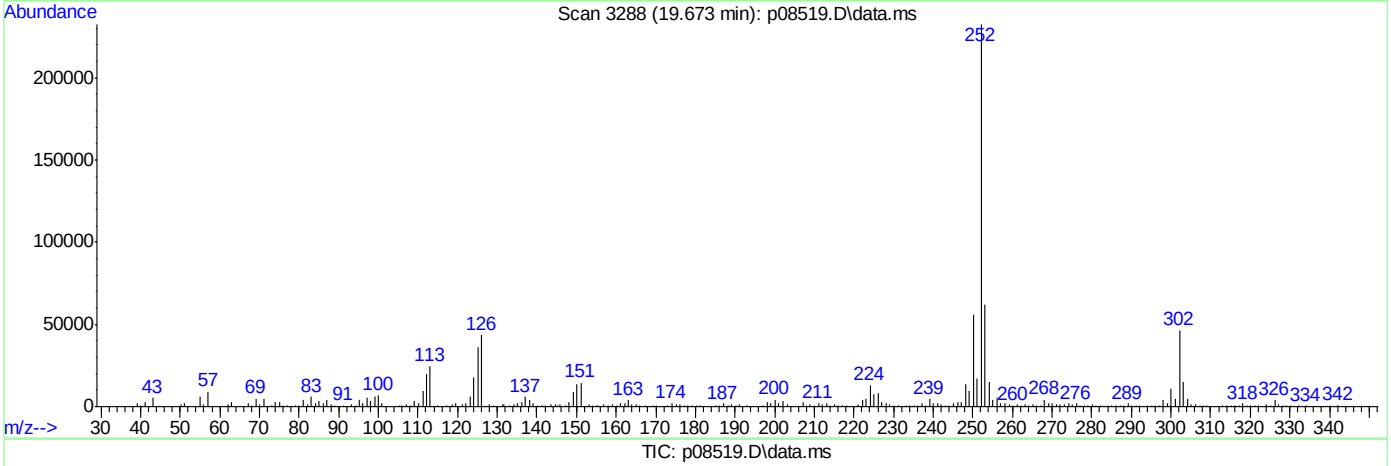
Ion	Exp%	Act%
264.20	100	100
260.20	22.50	13.10
265.20	21.90	20.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(96) Benzo[b]fluoranthene

19.673min (+0.005) 87.34ppm m

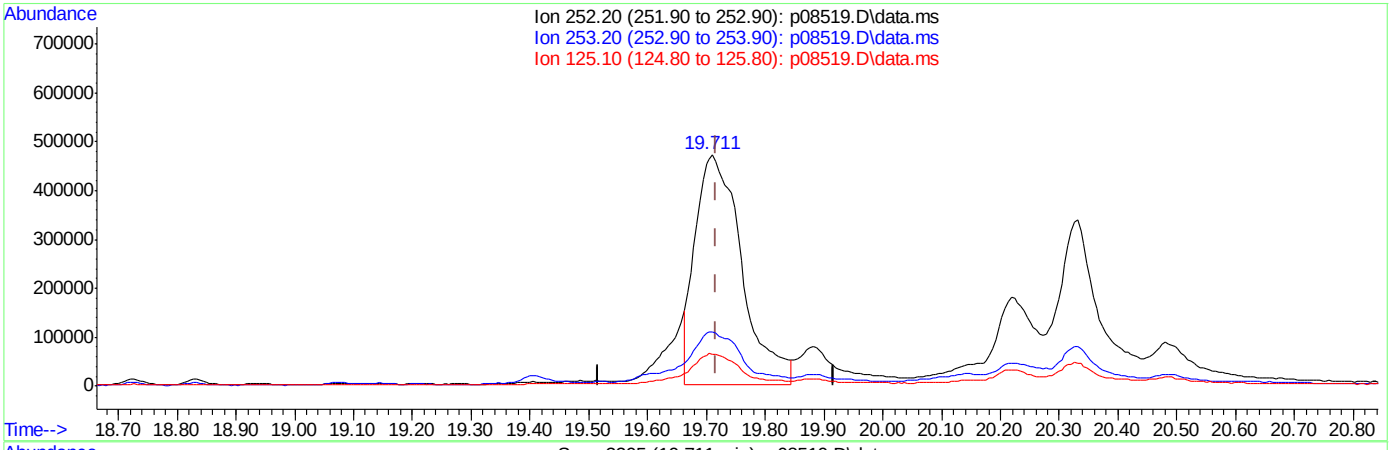
response 490042

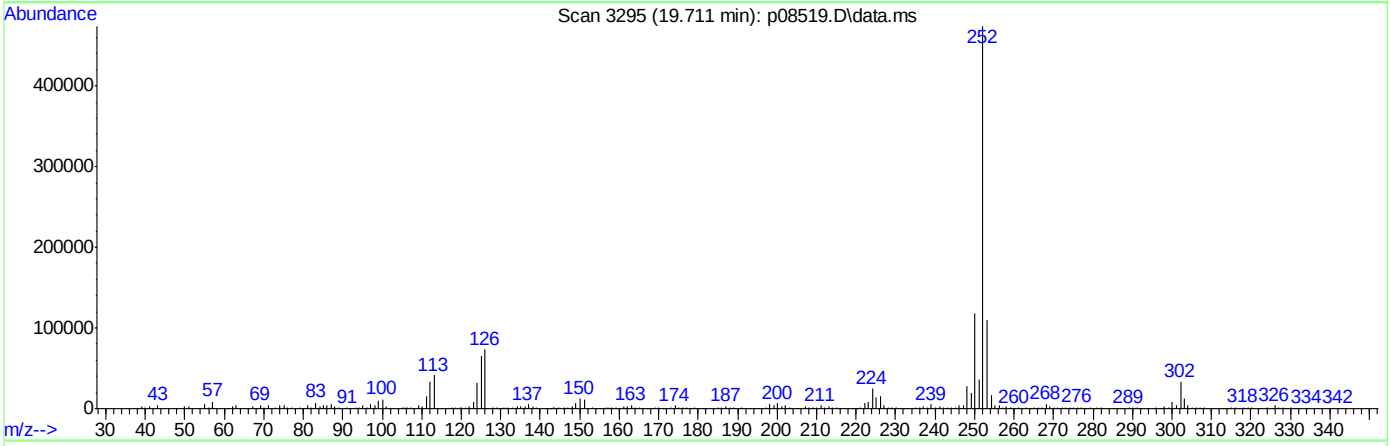
Ion	Exp%	Act%
252.20	100	100
253.20	22.40	137.59#
125.10	10.40	76.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08519.D
Acq On : 4 Feb 2010 6:20 pm
Operator : garyj
Sample : t46705-7, (x4, 20ml)
Misc : op13984,Ep404,30.16,,,20,4,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 09:53:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08519.D\data.ms

(97) Benzo[k]fluoranthene

19.711min (-0.006) 518.47ppm m

response 2586932

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	22.97
125.10	10.30	13.68
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36830.D Vial: 13
Acq On : 3 Feb 2010 6:30 pm Operator: sheilac
Sample : t46705-1,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:02 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 18:42:21 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

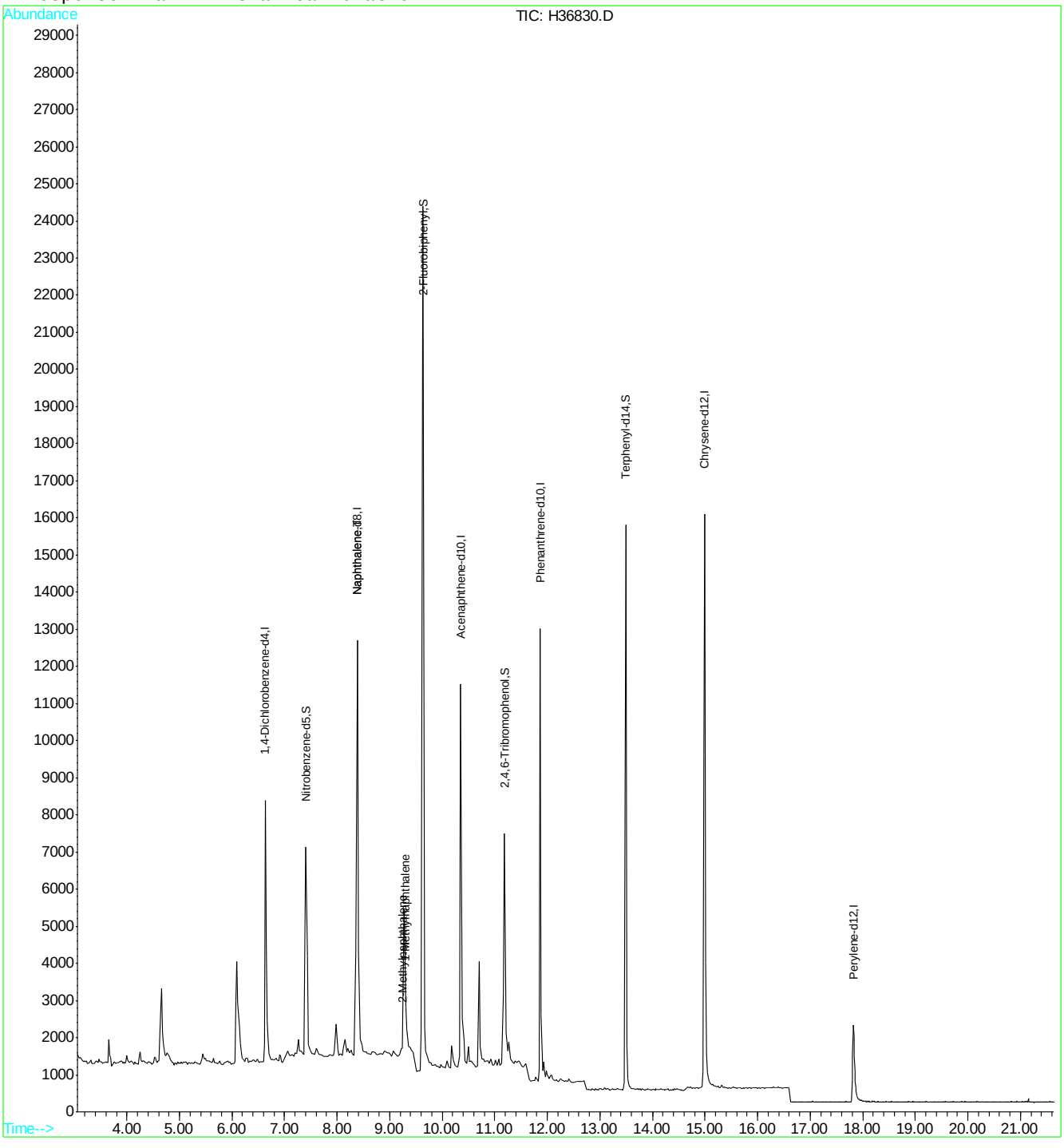
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	9375	4.00 ppb	0.00
4) Naphthalene-d8	8.38	136	12148	4.00 ppb	0.00
9) Acenaphthene-d10	10.35	164	8008	4.00 ppb	0.00
15) Phenanthrene-d10	11.87	188	15872	4.00 ppb	0.00
21) Chrysene-d12	14.98	240	23689	4.00 ppb	0.00
26) Perylene-d12	17.82	264	5772	4.00 ppb	0.00
System Monitoring Compounds					
5) Nitrobenzene-d5	7.40	82	6324	2.12 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 42.40%	
10) 2-Fluorobiphenyl	9.63	172	32419	2.87 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 57.40%	
16) 2,4,6-Tribromophenol	11.19	330	10554	5.90 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 59.00%	
23) Terphenyl-d14	13.50	244	18825	3.54 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 70.80%	
Target Compounds					Qvalue
6) Naphthalene	8.38	128	7191	2.18 ppb	99
7) 2-Methylnaphthalene	9.24	142	202m	0.07 ppb	
8) 1-Methylnaphthalene	9.30	142	2428m	0.67 ppb	

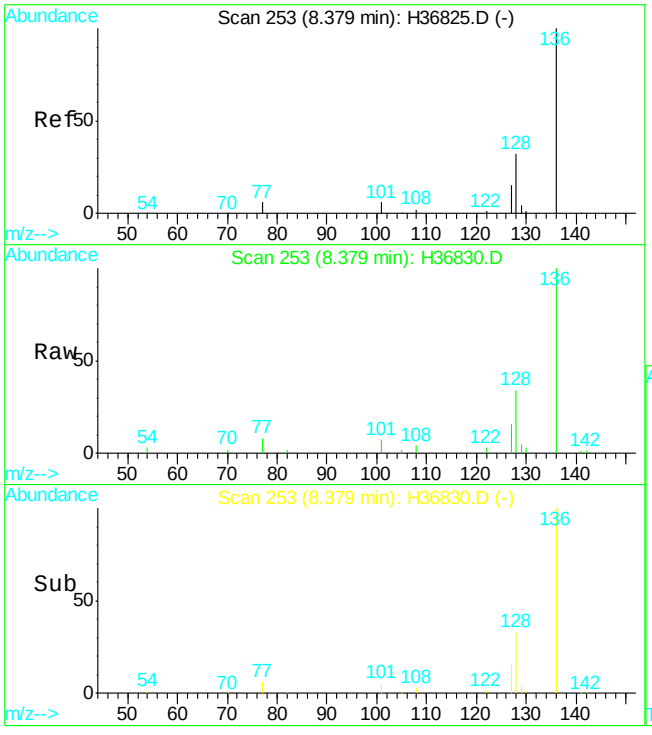
(#) = qualifier out of range (m) = manual integration
H36830.D H20310SP.M Thu Feb 04 11:04:37 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36830.D Vial: 13
Acq On : 3 Feb 2010 6:30 pm Operator: sheilac
Sample : t46705-1,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:02 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Initial Calibration

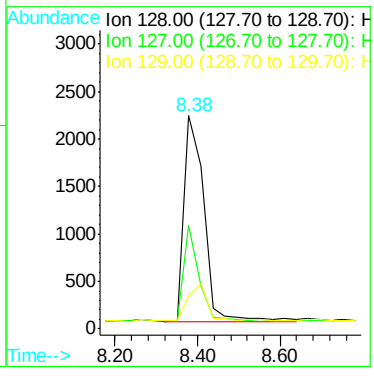


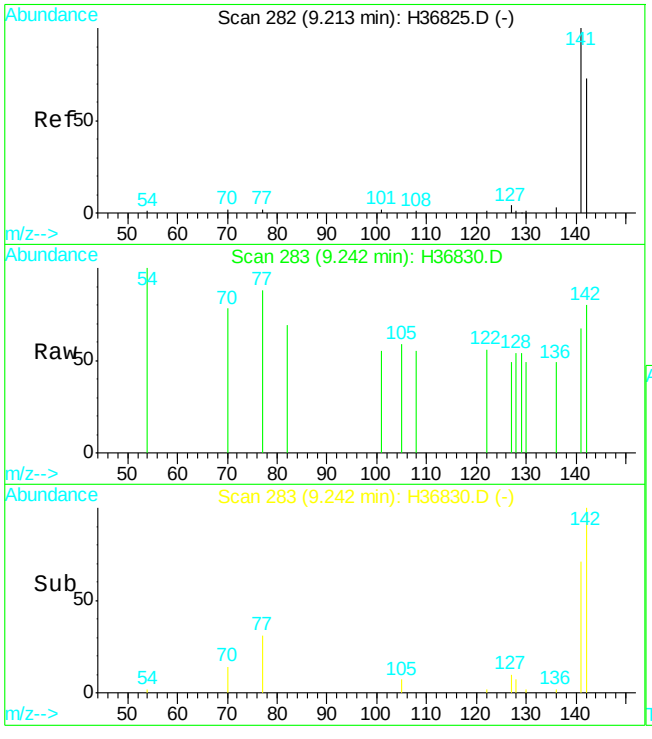


#6
Naphthalene
Concen: 2.18 ppb
RT: 8.38 min Scan# 253
Delta R.T. 0.00 min
Lab File: H36830.D
Acq: 3 Feb 2010 6:30 pm

Tgt Ion:128 Resp: 7191

Ion	Ratio	Lower	Upper
128	100		
127	46.4	32.7	60.7
129	12.3	9.5	17.7

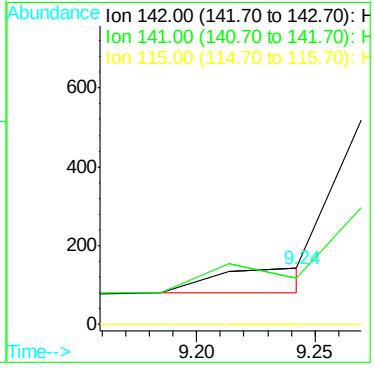


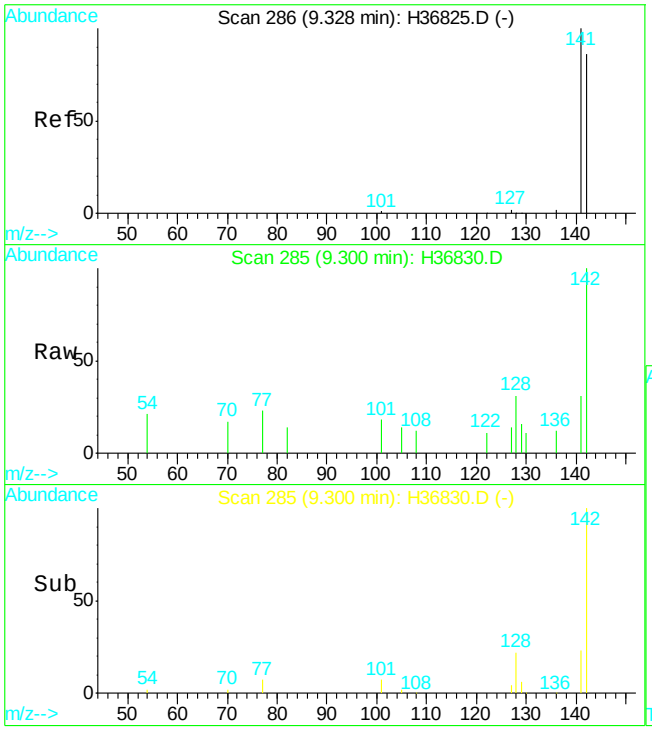


#7
2-Methylnaphthalene
Concen: 0.07 ppb m
RT: 9.24 min Scan# 283
Delta R.T. 0.03 min
Lab File: H36830.D
Acq: 3 Feb 2010 6:30 pm

Tgt Ion:142 Resp: 202

Ion	Ratio	Lower	Upper
142	100		
141	664.9	79.0	146.8#
115	0.0	0.0	0.0

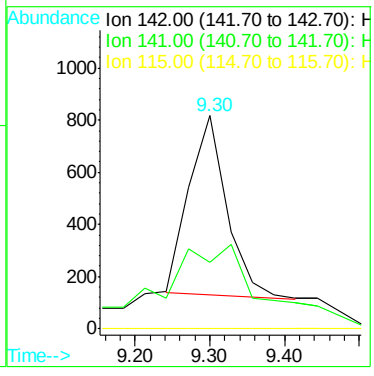




#8
1-Methylnaphthalene
Concen: 0.67 ppb m
RT: 9.30 min Scan# 285
Delta R.T. -0.03 min
Lab File: H36830.D
Acq: 3 Feb 2010 6:30 pm

Tgt Ion:142 Resp: 2428

Ion	Ratio	Lower	Upper
142	100		
141	127.3	79.0	146.8
115	0.0	0.0	0.0



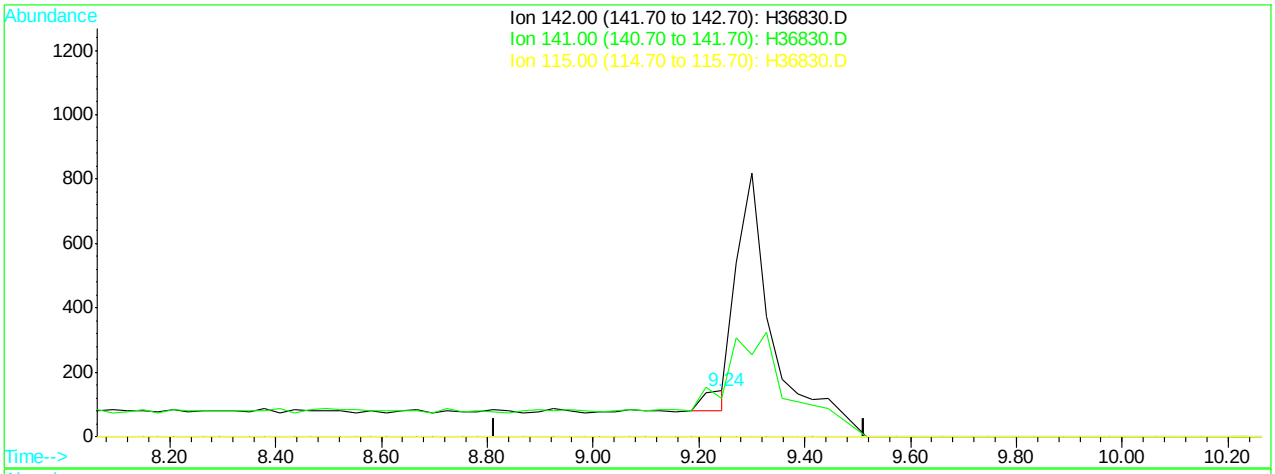
8.1.15

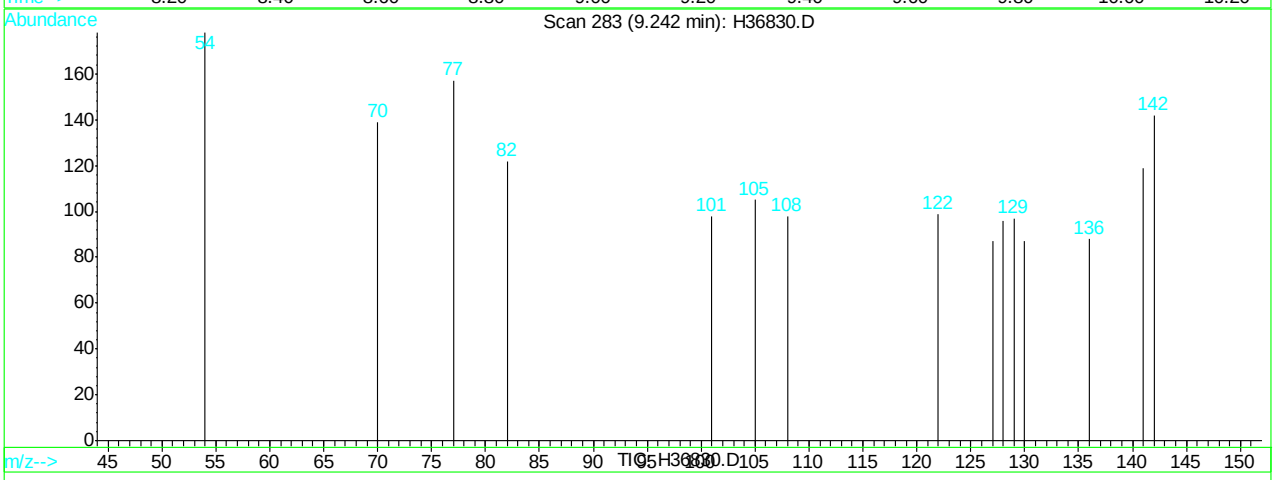
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36830.D Vial: 13
Acq On : 3 Feb 2010 6:30 pm Operator: sheilac
Sample : t46705-1,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:02 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

9.24min 0.07ppb m

response 202

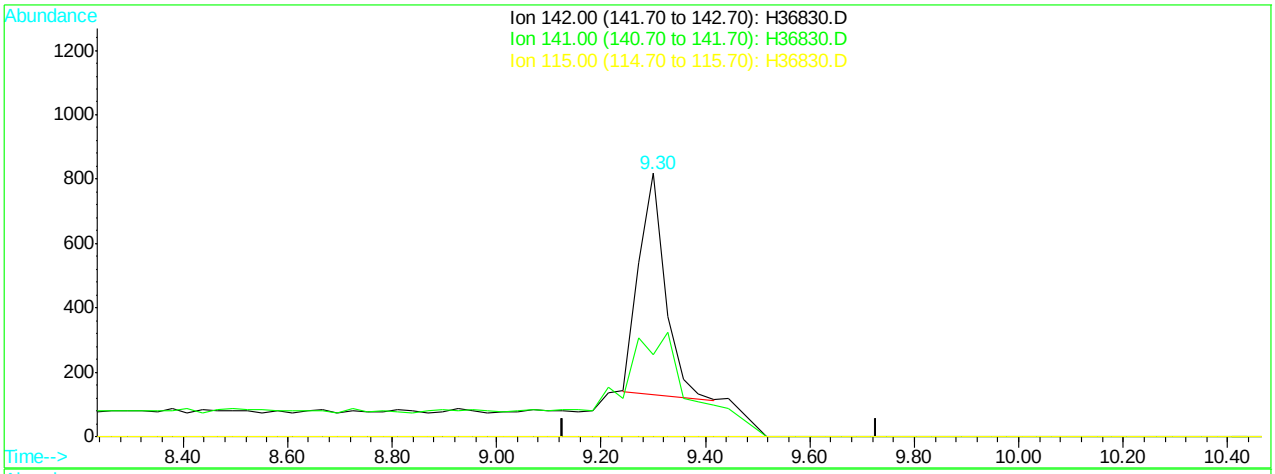
Ion	Exp%	Act%
142.00	100	100
141.00	112.90	664.85#
115.00	0.00	0.00
0.00	0.00	0.00

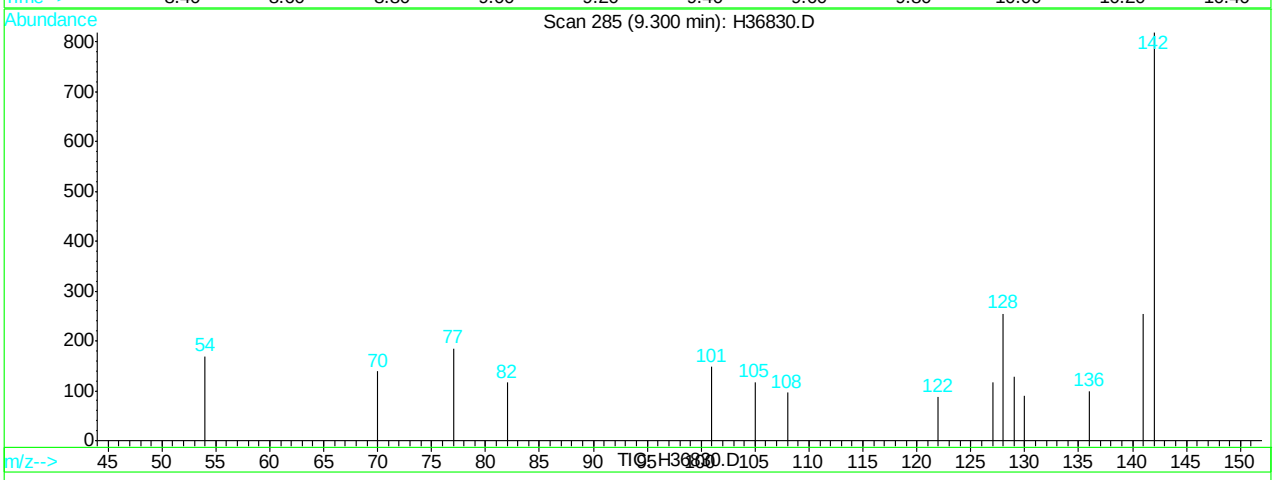
H36830.D H20310SP.M Thu Feb 04 11:04:47 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36830.D Vial: 13
Acq On : 3 Feb 2010 6:30 pm Operator: sheilac
Sample : t46705-1,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:02 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

9.30min 0.67ppb m

response 2428

Ion	Exp%	Act%
142.00	100	100
141.00	112.90	127.31
115.00	0.00	0.00
0.00	0.00	0.00

H36830.D H20310SP.M Thu Feb 04 11:04:52 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:24:53 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	10455	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	16628	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	10737	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	18282	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	25467	4.00	ppb	0.00
26) Perylene-d12	17.82	264	4294	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	7.43	82	54656	17.42	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 348.40%#			
10) 2-Fluorobiphenyl	9.63	172	226660	14.98	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 299.60%#			
16) 2,4,6-Tribromophenol	11.18	330	334161	78.07	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 780.70%#			
23) Terphenyl-d14	13.49	244	216173	37.85	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 757.00%#			

Target Compounds

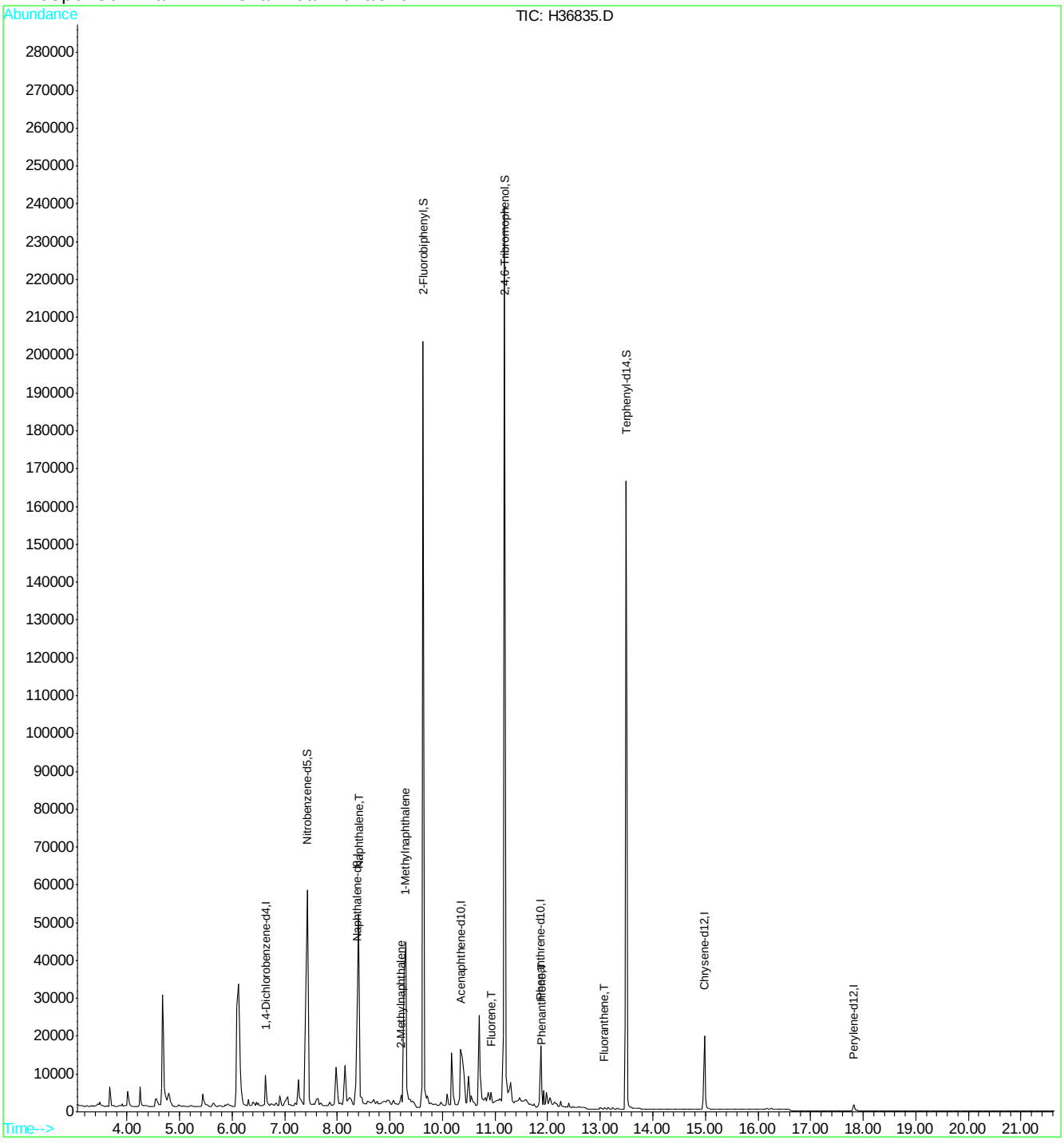
						Qvalue
6) Naphthalene	8.41	128	74406	15.05	ppb	# 63
7) 2-Methylnaphthalene	9.21	142	2819m	1.04	ppb	
8) 1-Methylnaphthalene	9.30	142	73542m	17.10	ppb	
14) Fluorene	10.93	166	931m	0.25	ppb	
18) Phenanthrene	11.89	178	2678m	0.32	ppb	
20) Fluoranthene	13.08	202	607	0.06	ppb	# 87

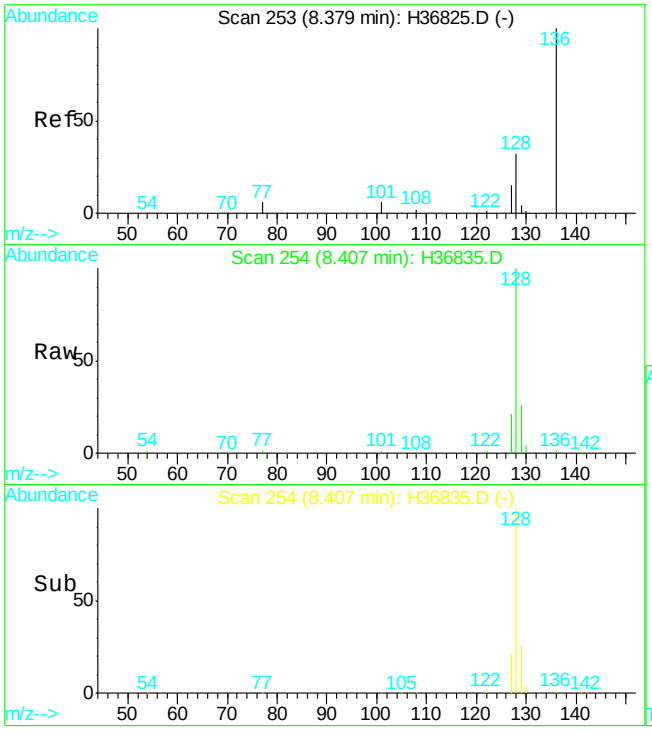
(#) = qualifier out of range (m) = manual integration
H36835.D H20310SP.M Thu Feb 04 11:03:15 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Initial Calibration

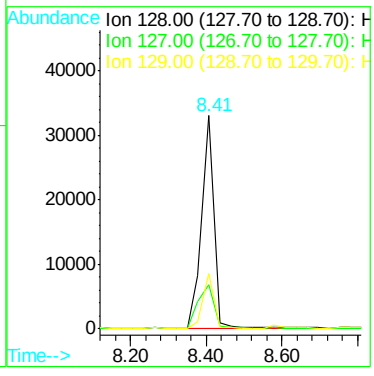


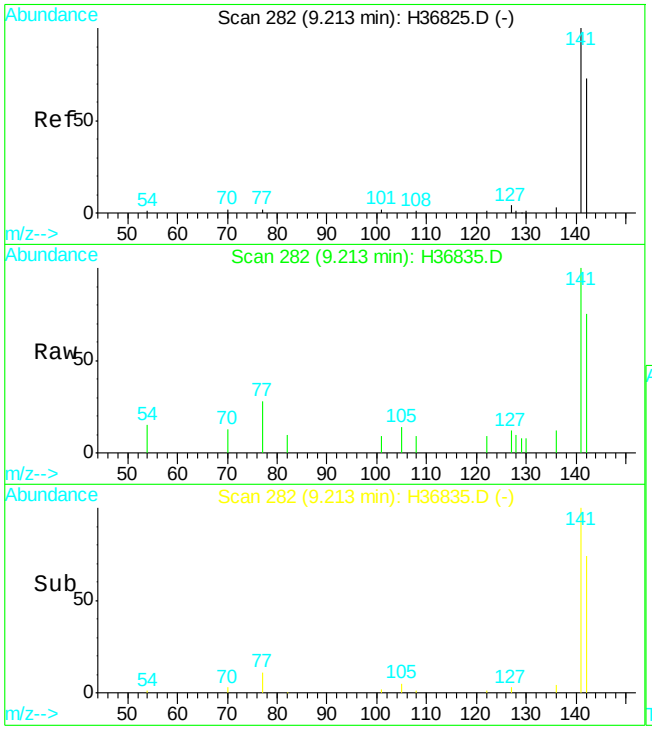


#6
Naphthalene
Concen: 15.05 ppb
RT: 8.41 min Scan# 254
Delta R.T. 0.03 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:128 Resp: 74406

Ion	Ratio	Lower	Upper
128	100		
127	20.6	32.7	60.7#
129	25.6	9.5	17.7#

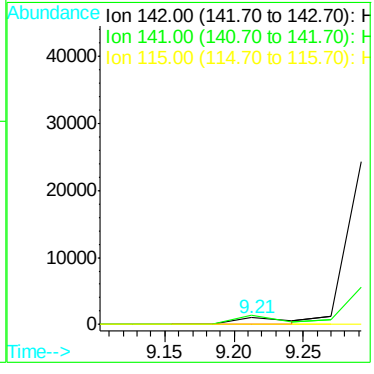


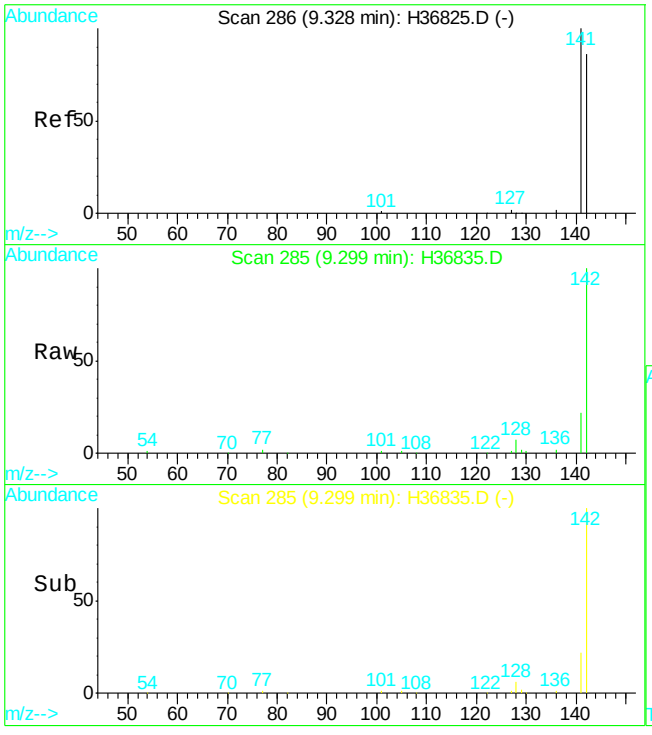


#7
2-Methylnaphthalene
Concen: 1.04 ppb m
RT: 9.21 min Scan# 282
Delta R.T. -0.00 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:142 Resp: 2819

Ion	Ratio	Lower	Upper
142	100		
141	687.2	79.0	146.8#
115	0.0	0.0	0.0

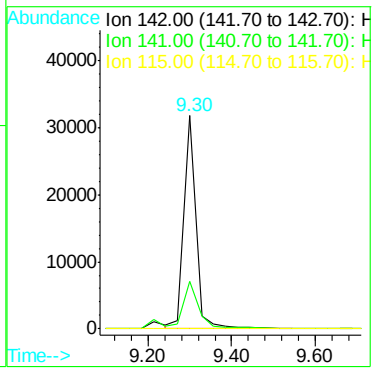


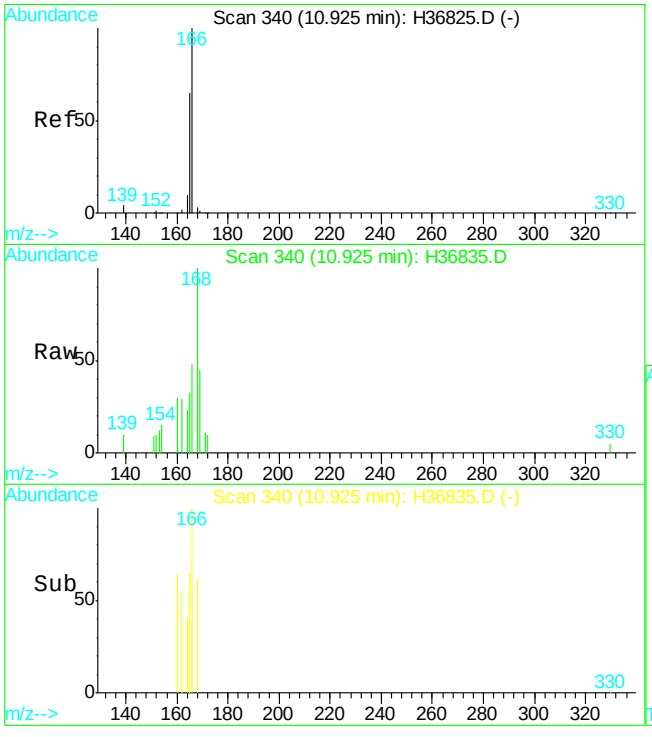


#8
1-Methylnaphthalene
Concen: 17.10 ppb m
RT: 9.30 min Scan# 285
Delta R.T. -0.03 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:142 Resp: 73542

Ion	Ratio	Lower	Upper
142	100		
141	32.6	79.0	146.8#
115	0.0	0.0	0.0

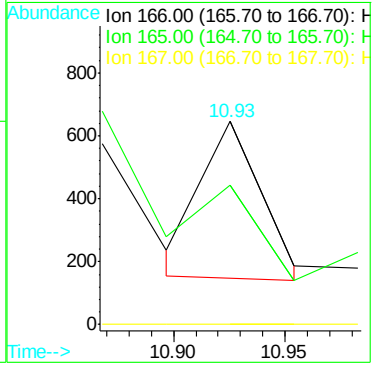


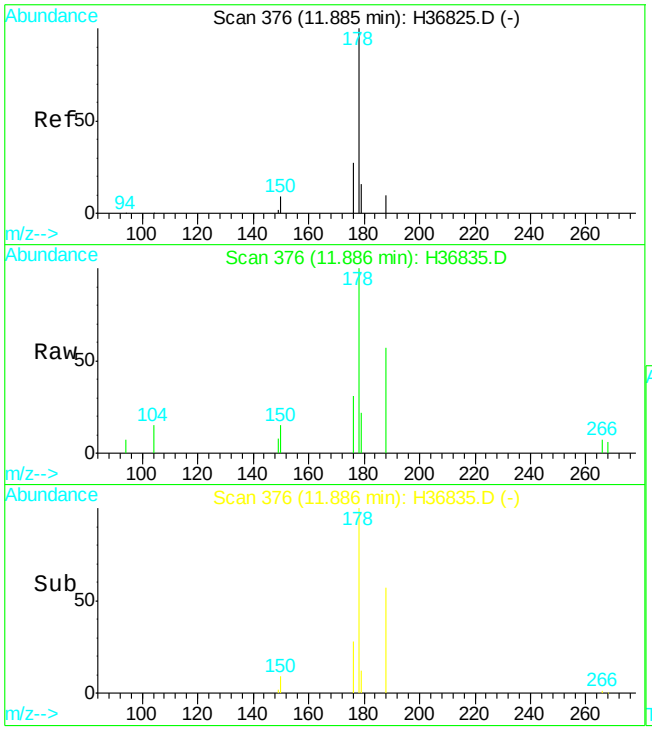


#14
Fluorene
Concen: 0.25 ppb m
RT: 10.93 min Scan# 340
Delta R.T. 0.00 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:166 Resp: 931

Ion	Ratio	Lower	Upper
166	100		
165	68.4	45.6	84.6
167	0.0	0.0	0.0

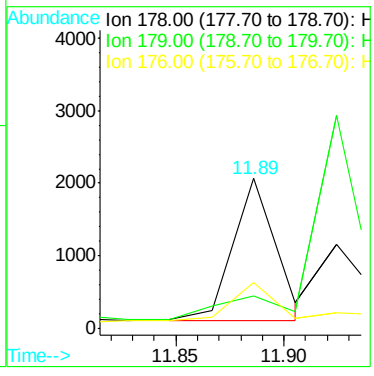


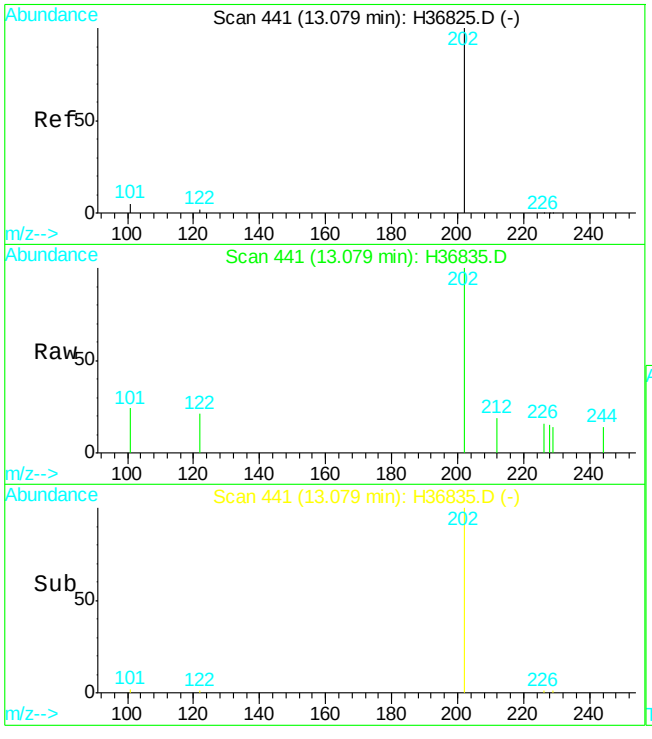


#18
Phenanthrene
Concen: 0.32 ppb m
RT: 11.89 min Scan# 376
Delta R.T. 0.00 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:178 Resp: 2678

Ion	Ratio	Lower	Upper
178	100		
179	22.0	11.3	21.1#
176	30.8	18.4	34.2

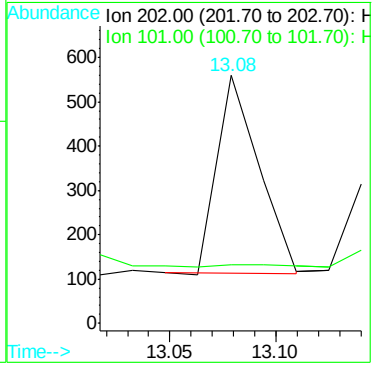




#20
Fluoranthene
Concen: 0.06 ppb
RT: 13.08 min Scan# 441
Delta R.T. -0.00 min
Lab File: H36835.D
Acq: 3 Feb 2010 8:59 pm

Tgt Ion:202 Resp: 607

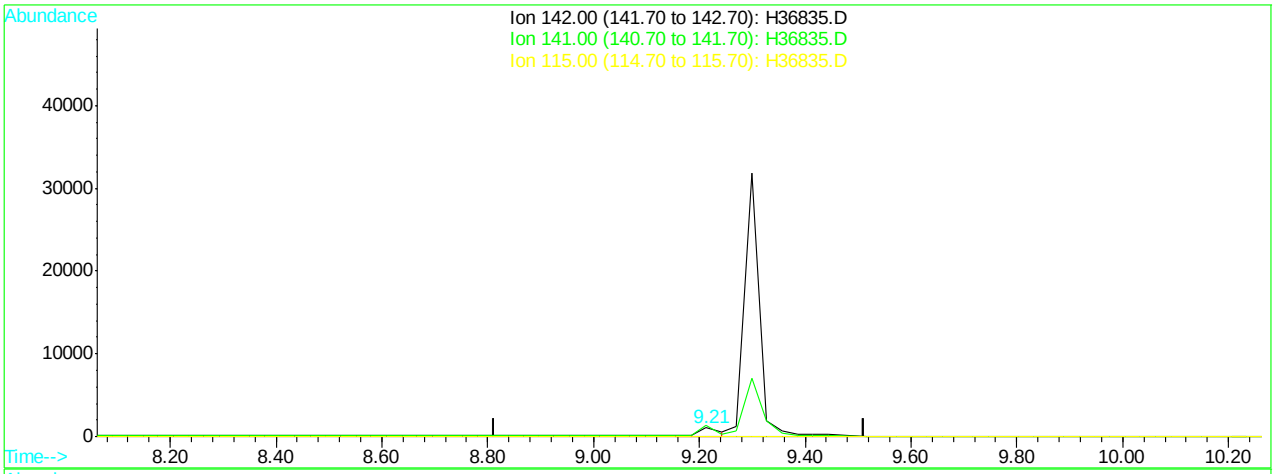
Ion	Ratio	Lower	Upper
202	100		
101	0.5	3.4	6.2#

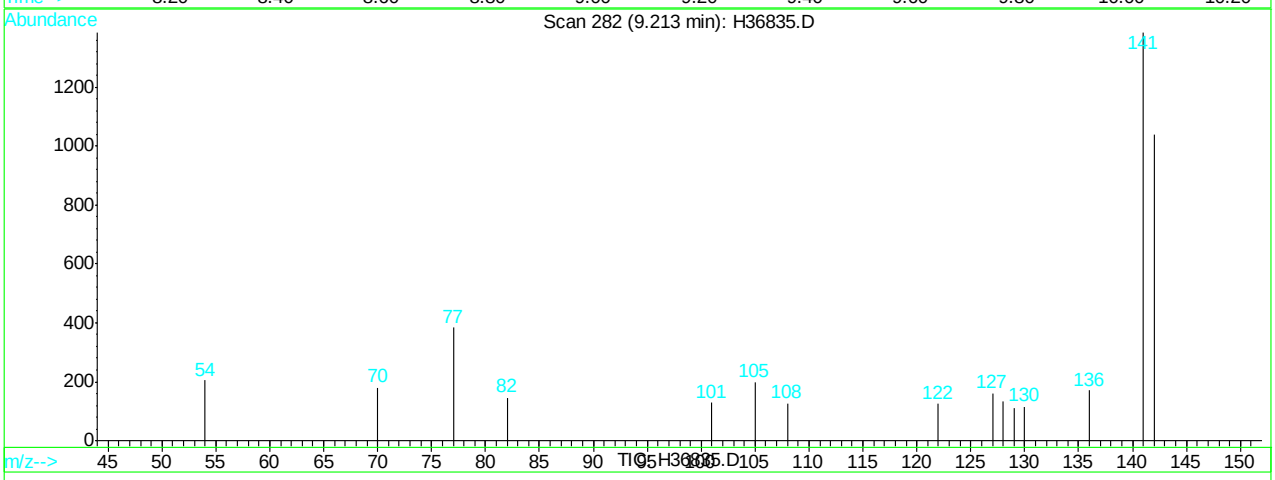


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

9.21min 1.04ppb m

response 2819

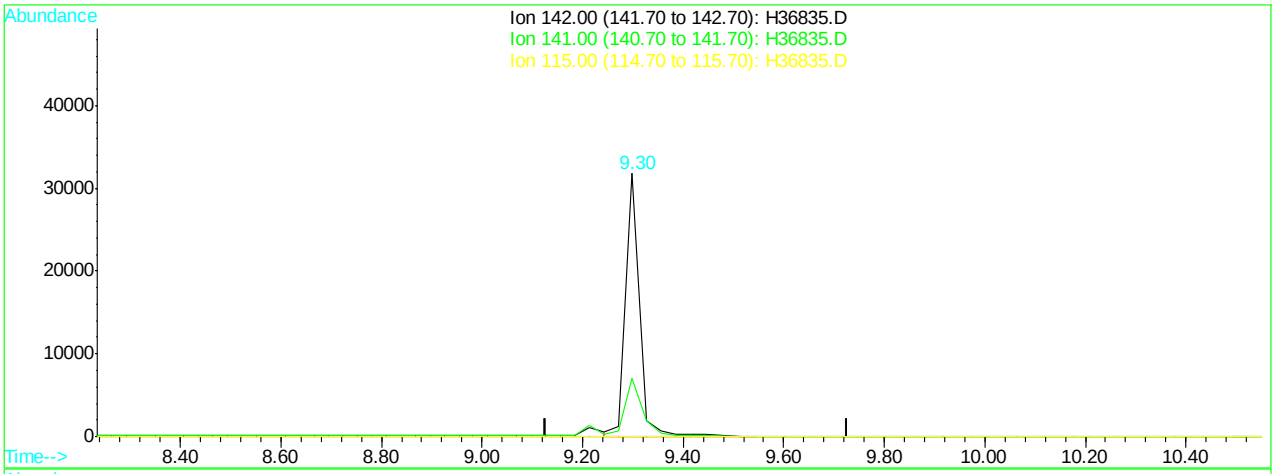
Ion	Exp%	Act%
142.00	100	100
141.00	112.90	687.23#
115.00	0.00	0.00
0.00	0.00	0.00

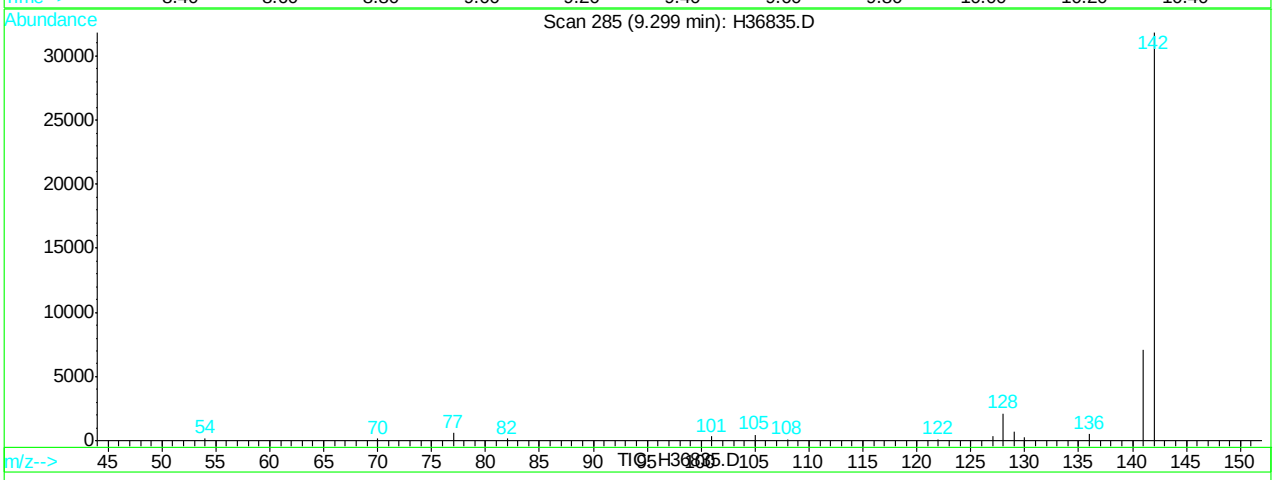
H36835.D H20310SP.M Thu Feb 04 11:03:43 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

9.30min 17.10ppb m

response 73542

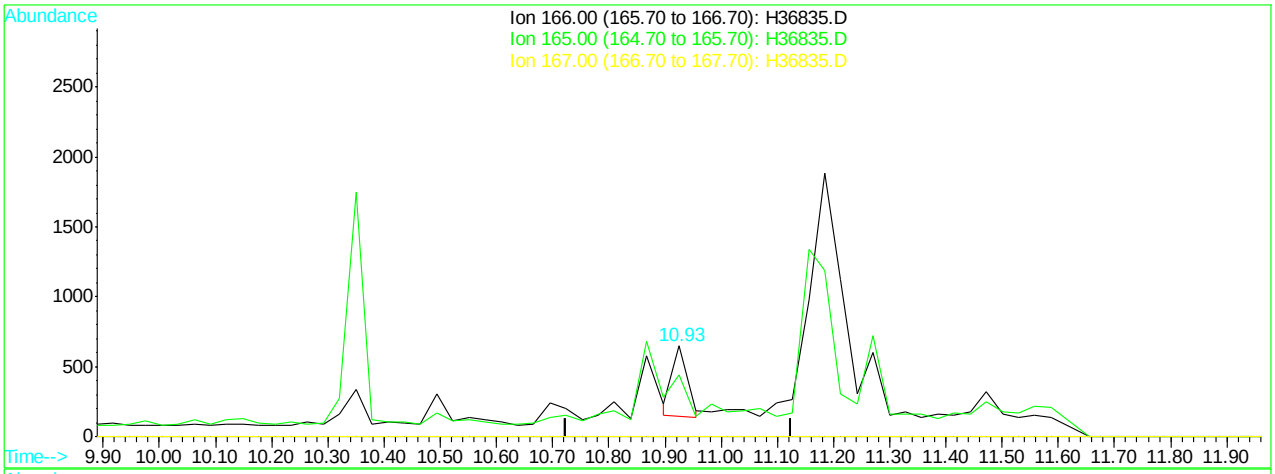
Ion	Exp%	Act%
142.00	100	100
141.00	112.90	32.59#
115.00	0.00	0.00
0.00	0.00	0.00

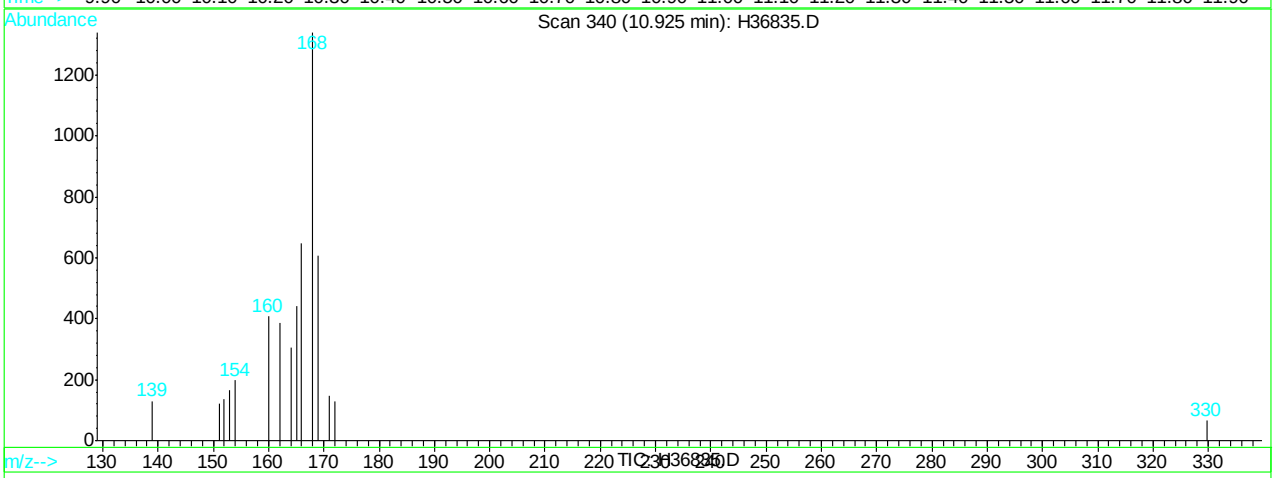
H36835.D H20310SP.M Thu Feb 04 11:03:47 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(14) Fluorene (T)

10.93min 0.25ppb m

response 931

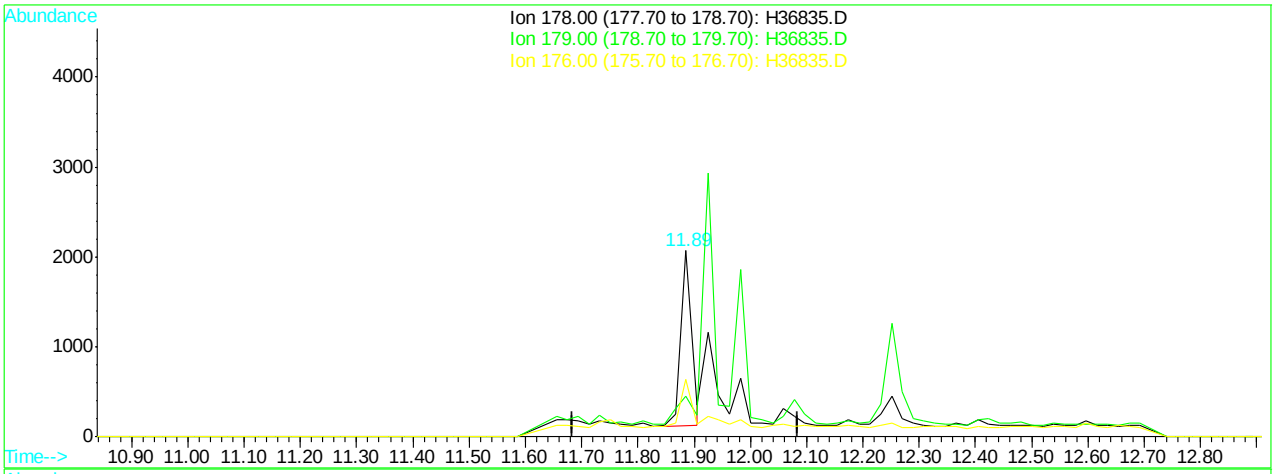
Ion	Exp%	Act%
166.00	100	100
165.00	65.10	68.42
167.00	0.00	0.00
0.00	0.00	0.00

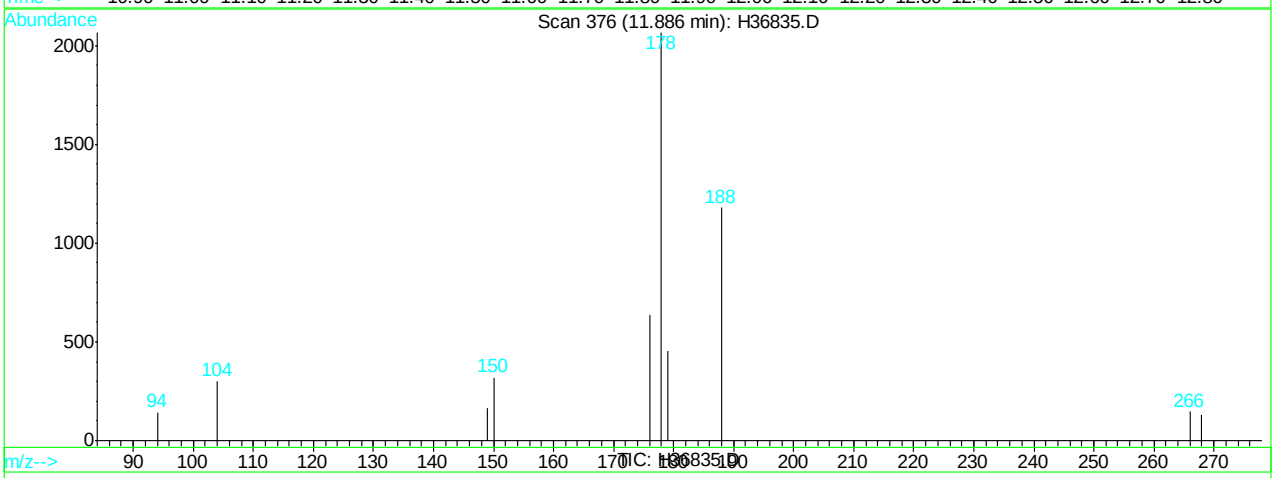
H36835.D H20310SP.M Thu Feb 04 11:03:51 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36835.D Vial: 18
Acq On : 3 Feb 2010 8:59 pm Operator: sheilac
Sample : t46705-1 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:01 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.89min 0.32ppb m

response 2678

Ion	Exp%	Act%
178.00	100	100
179.00	16.20	21.97#
176.00	26.30	30.78
0.00	0.00	0.00

H36835.D H20310SP.M Thu Feb 04 11:04:10 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36831.D Vial: 14
Acq On : 3 Feb 2010 7:00 pm Operator: sheilac
Sample : t46705-2,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:11 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 18:42:21 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

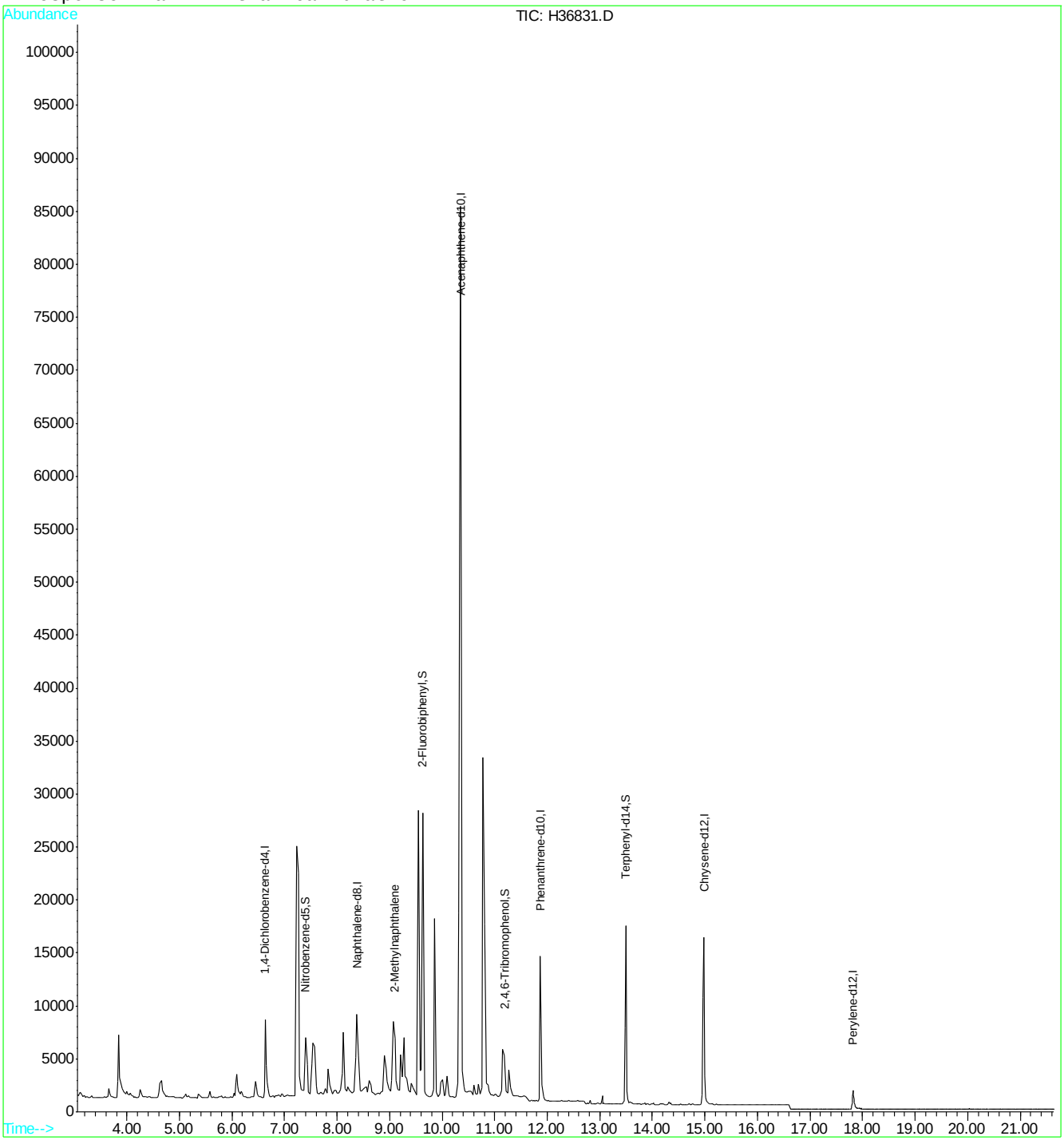
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	9651	4.00 ppb	0.00
4) Naphthalene-d8	8.38	136	11813	4.00 ppb	0.00
9) Acenaphthene-d10	10.35	164	29743	4.00 ppb	0.00
15) Phenanthrene-d10	11.87	188	16974	4.00 ppb	0.00
21) Chrysene-d12	14.98	240	23751	4.00 ppb	0.00
26) Perylene-d12	17.82	264	4625	4.00 ppb	0.00
System Monitoring Compounds					
5) Nitrobenzene-d5	7.40	82	5587	1.87 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 37.40%	
10) 2-Fluorobiphenyl	9.63	172	38394	0.92 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 18.40%	
16) 2,4,6-Tribromophenol	11.18	330	8471	4.43 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 44.30%	
23) Terphenyl-d14	13.49	244	19485	3.66 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 73.20%	
Target Compounds					Qvalue
7) 2-Methylnaphthalene	9.10	142	7738m	3.93 ppb	

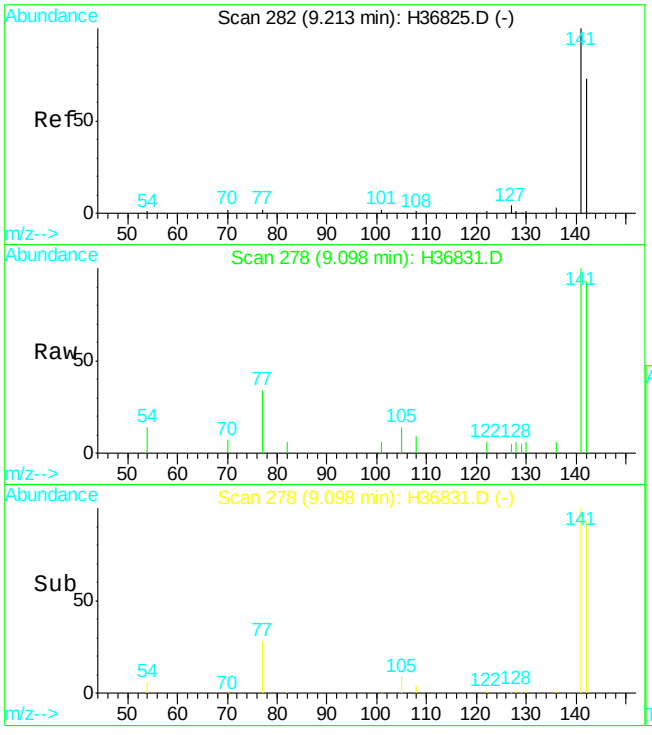
(#) = qualifier out of range (m) = manual integration
H36831.D H20310SP.M Thu Feb 04 11:11:48 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36831.D Vial: 14
Acq On : 3 Feb 2010 7:00 pm Operator: sheilac
Sample : t46705-2,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:11 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Initial Calibration

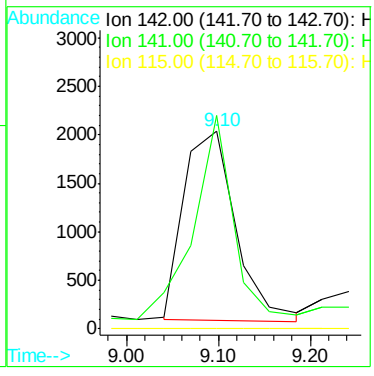




#7
2-Methylnaphthalene
Concen: 3.93 ppb m
RT: 9.10 min Scan# 278
Delta R.T. -0.11 min
Lab File: H36831.D
Acq: 3 Feb 2010 7:00 pm

Tgt Ion:142 Resp: 7738

Ion	Ratio	Lower	Upper
142	100		
141	111.0	79.0	146.8
115	0.0	0.0	0.0



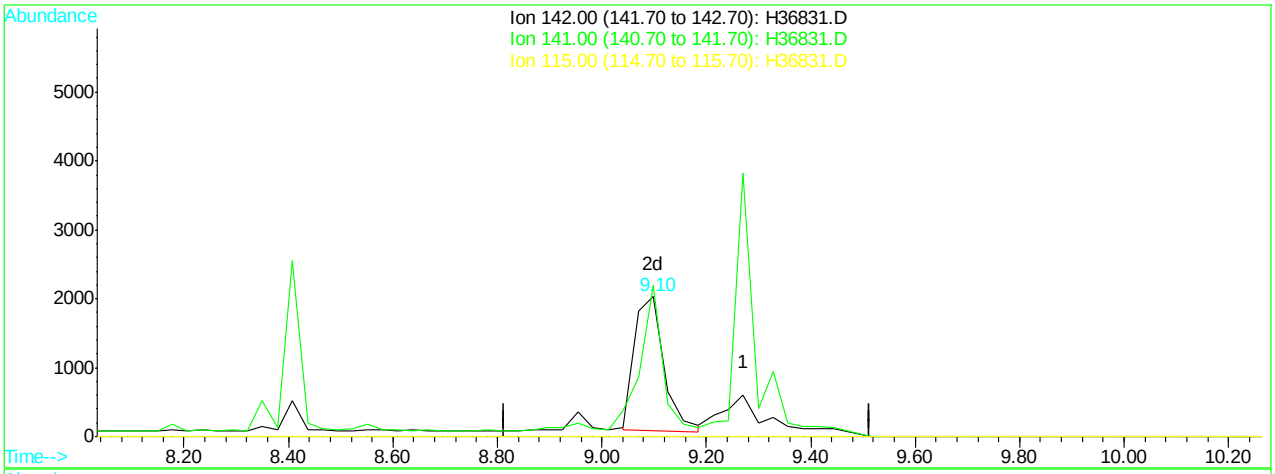
8.1.17

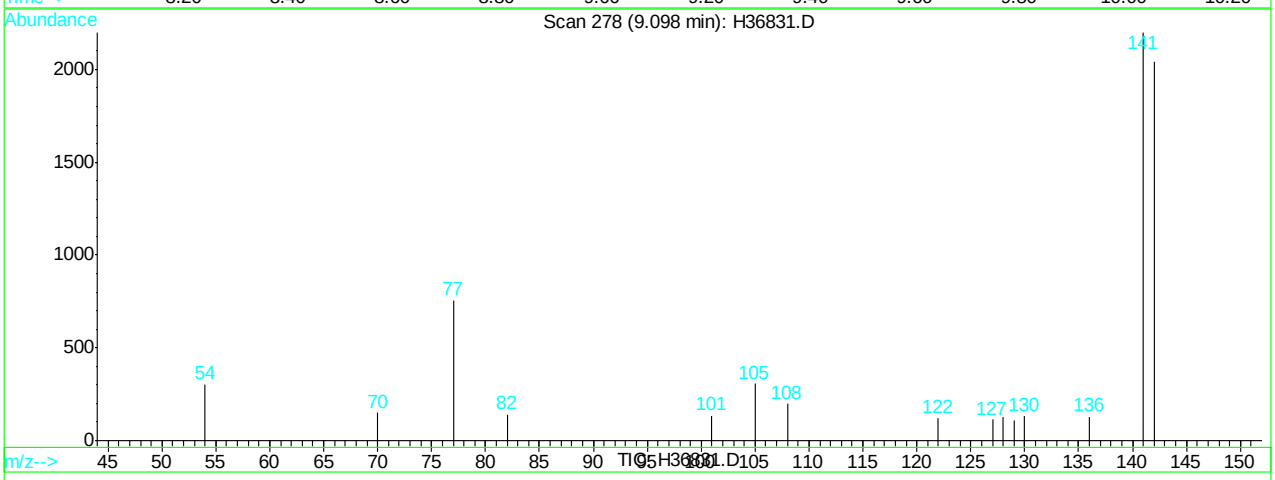
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36831.D Vial: 14
Acq On : 3 Feb 2010 7:00 pm Operator: sheilac
Sample : t46705-2,10x Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:11 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

9.10min 3.93ppb m

response 7738

Ion	Exp%	Act%
142.00	100	100
141.00	112.90	111.04
115.00	0.00	0.00
0.00	0.00	0.00

H36831.D H20310SP.M Thu Feb 04 11:12:11 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36838.D Vial: 21
Acq On : 3 Feb 2010 10:33 pm Operator: sheilac
Sample : t46705-2 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:13 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:44:36 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	10341	4.00 ppb	0.00
4) Naphthalene-d8	8.38	136	21649	4.00 ppb	0.00
9) Acenaphthene-d10	10.41	164	282088	4.00 ppb	0.06
15) Phenanthrene-d10	11.88	188	16252	4.00 ppb	0.02
21) Chrysene-d12	14.98	240	9524	4.00 ppb	0.00
26) Perylene-d12	17.82	264	1276	4.00 ppb	0.00

System Monitoring Compounds					
5) Nitrobenzene-d5	7.43	82	80180	19.92 ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 398.40%#		
10) 2-Fluorobiphenyl	9.66	172	155096	0.39 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 7.80%#		
16) 2,4,6-Tribromophenol	11.18	330	257139	72.81 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 728.10%#		
23) Terphenyl-d14	13.51	244	218610	102.35 ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 2047.00%#		

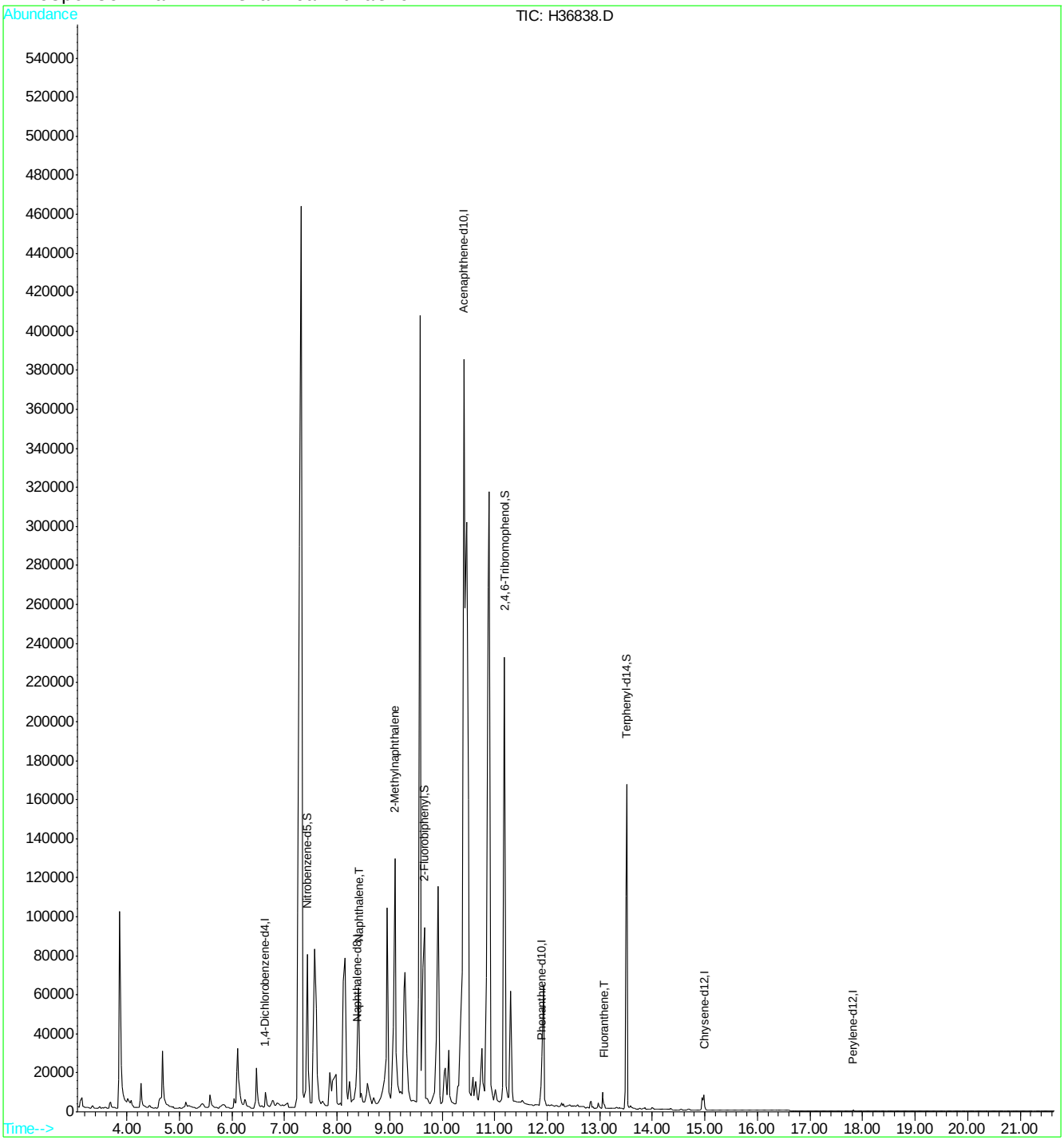
Target Compounds					Qvalue
6) Naphthalene	8.41	128	8351m	1.30 ppb	
7) 2-Methylnaphthalene	9.10	142	144746m	40.88 ppb	
20) Fluoranthene	13.08	202	3796	0.45 ppb	# 91

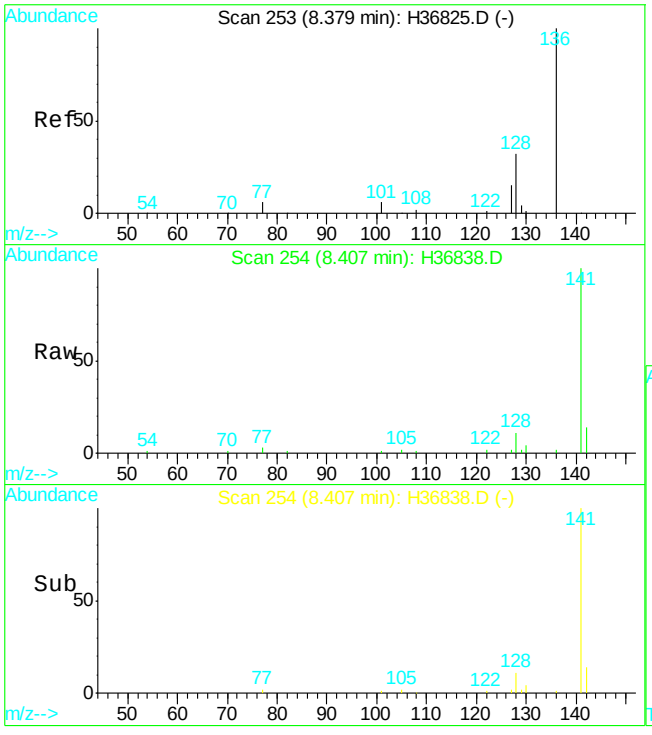
(#) = qualifier out of range (m) = manual integration
H36838.D H20310SP.M Thu Feb 04 11:13:49 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36838.D Vial: 21
Acq On : 3 Feb 2010 10:33 pm Operator: sheilac
Sample : t46705-2 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:13 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Initial Calibration

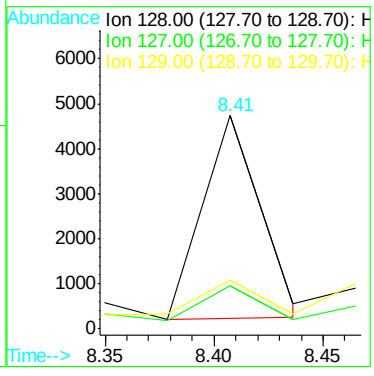


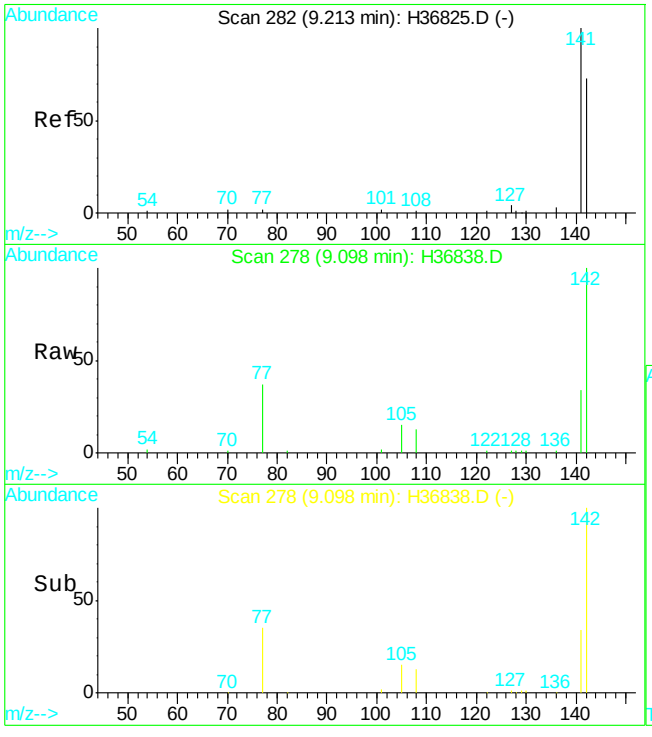


#6
Naphthalene
Concen: 1.30 ppb m
RT: 8.41 min Scan# 254
Delta R.T. 0.03 min
Lab File: H36838.D
Acq: 3 Feb 2010 10:33 pm

Tgt Ion:128 Resp: 8351

Ion	Ratio	Lower	Upper
128	100		
127	20.0	32.7	60.7#
129	22.9	9.5	17.7#

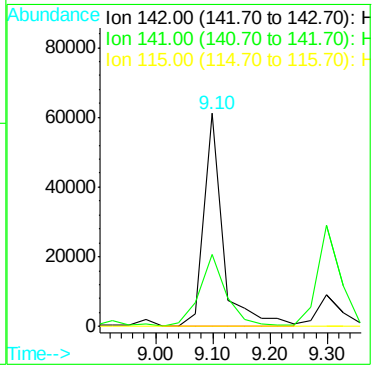




#7
2-Methylnaphthalene
Concen: 40.88 ppb m
RT: 9.10 min Scan# 278
Delta R.T. -0.12 min
Lab File: H36838.D
Acq: 3 Feb 2010 10:33 pm

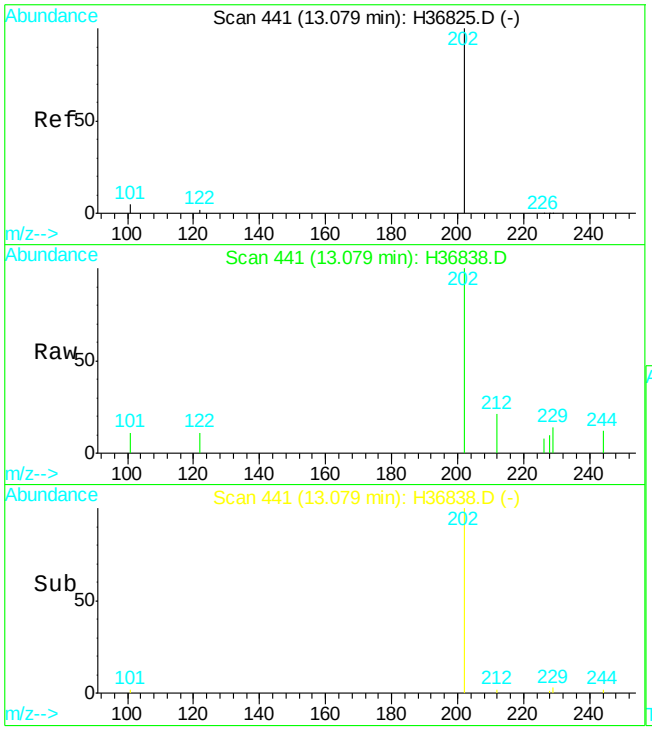
Tgt Ion:142 Resp: 144746

Ion	Ratio	Lower	Upper
142	100		
141	53.7	79.0	146.8#
115	0.0	0.0	0.0



8.1.18

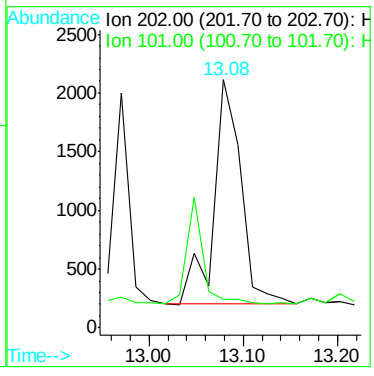
8



#20
Fluoranthene
Concen: 0.45 ppb
RT: 13.08 min Scan# 441
Delta R.T. 0.00 min
Lab File: H36838.D
Acq: 3 Feb 2010 10:33 pm

Tgt Ion:202 Resp: 3796

Ion	Ratio	Lower	Upper
202	100		
101	1.8	3.4	6.2#



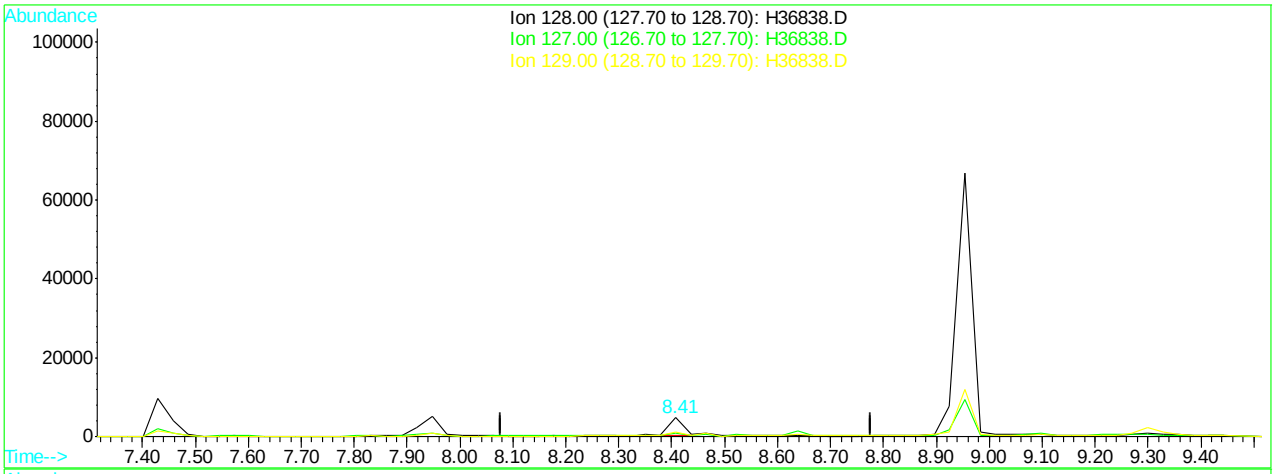
8.1.18

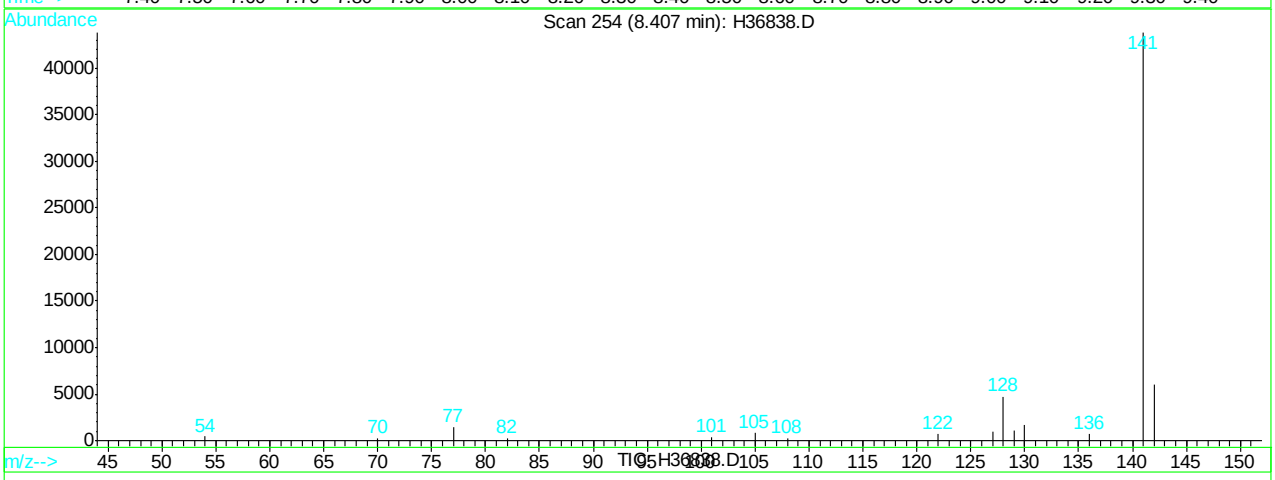
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36838.D Vial: 21
Acq On : 3 Feb 2010 10:33 pm Operator: sheilac
Sample : t46705-2 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:13 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(6) Naphthalene (T)

8.41min 1.30ppb m

response 8351

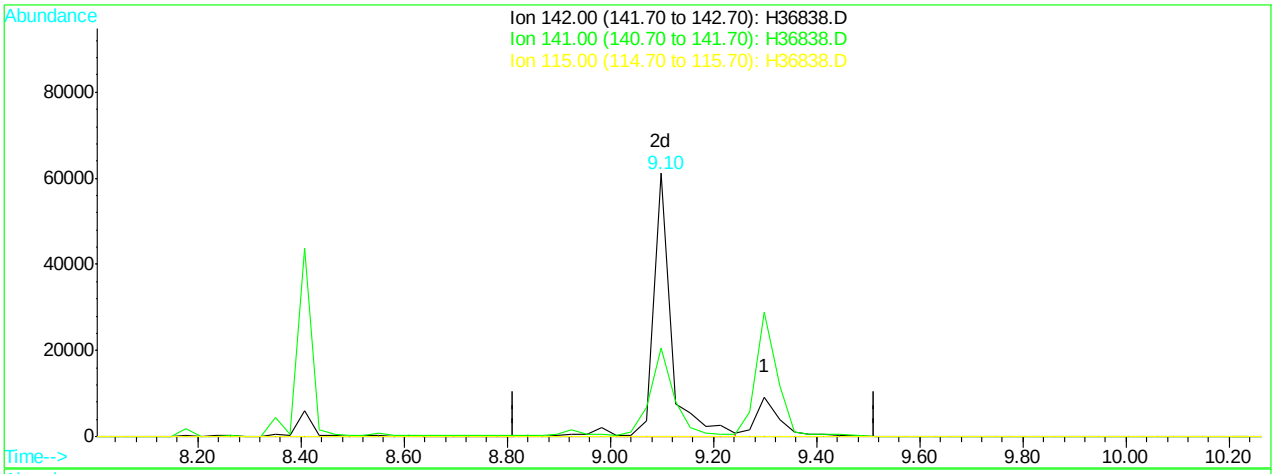
Ion	Exp%	Act%
128.00	100	100
127.00	46.70	19.97#
129.00	13.60	22.87#
0.00	0.00	0.00

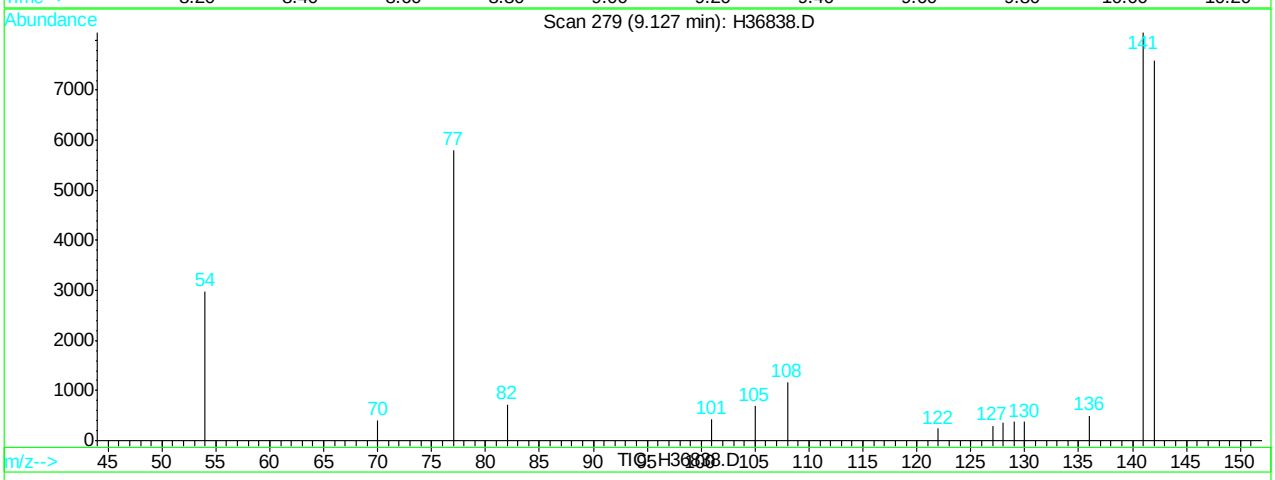
H36838.D H20310SP.M Thu Feb 04 11:13:56 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36838.D Vial: 21
Acq On : 3 Feb 2010 10:33 pm Operator: sheilac
Sample : t46705-2 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,10,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:13 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

9.10min 40.88ppb m

response 144746

Ion	Exp%	Act%
142.00	100	100
141.00	112.90	53.73#
115.00	0.00	0.00
0.00	0.00	0.00

H36838.D H20310SP.M Thu Feb 04 11:14:29 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:24:53 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	9253	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	11024	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	7958	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	16308	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	21131	4.00	ppb	0.00
26) Perylene-d12	17.82	264	4096	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	7.43	82	48261	24.10	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 482.00%#			
10) 2-Fluorobiphenyl	9.63	172	265179	23.65	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 473.00%#			
16) 2,4,6-Tribromophenol	11.18	330	148687	55.81	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 558.10%#			
23) Terphenyl-d14	13.50	244	178512	37.67	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 753.40%#			

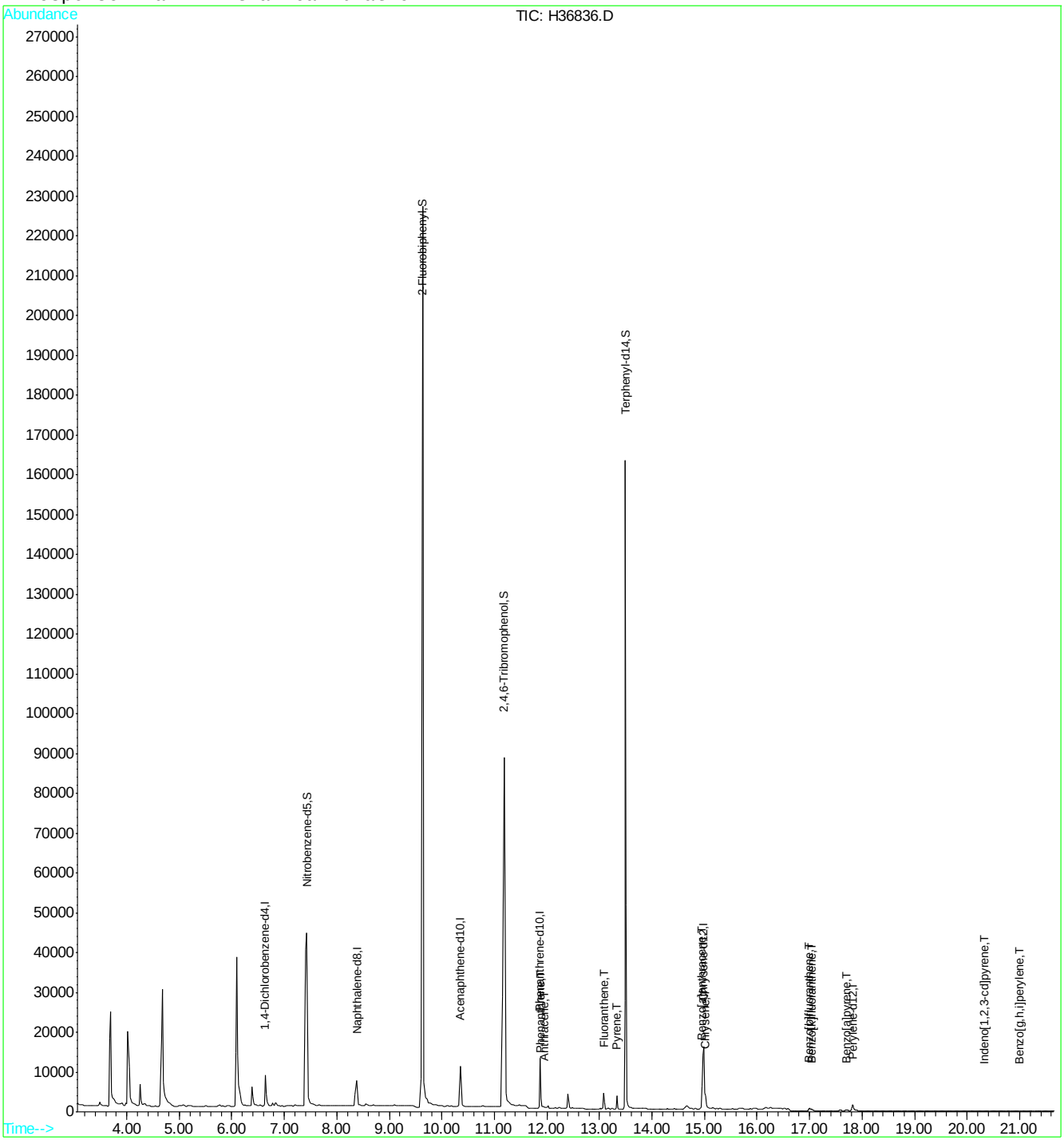
Target Compounds							Qvalue
18) Phenanthrene	11.88	178	1264	0.17	ppb		93
19) Anthracene	11.94	178	407m	0.06	ppb		
20) Fluoranthene	13.08	202	5328	0.63	ppb	#	96
22) Pyrene	13.33	202	5831	0.69	ppb	#	90
24) Benzo[a]anthracene	14.95	228	3035	0.37	ppb		97
25) Chrysene	15.02	228	3354	0.41	ppb		93
27) Benzo[b]fluoranthene	16.99	252	1690m	0.71	ppb		
28) Benzo[k]fluoranthene	17.04	252	706m	0.23	ppb		
29) Benzo[a]pyrene	17.69	252	704	0.48	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.32	276	181m	0.37	ppb		
32) Benzo[g,h,i]perylene	20.99	276	222m	0.58	ppb		

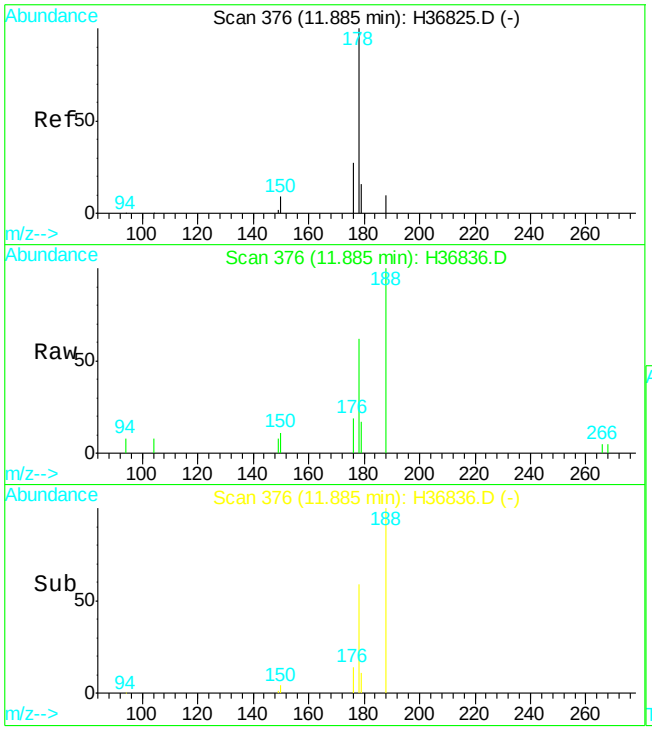
(#) = qualifier out of range (m) = manual integration
H36836.D H20310SP.M Thu Feb 04 11:19:08 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Initial Calibration

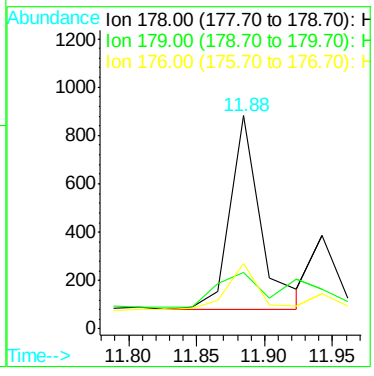


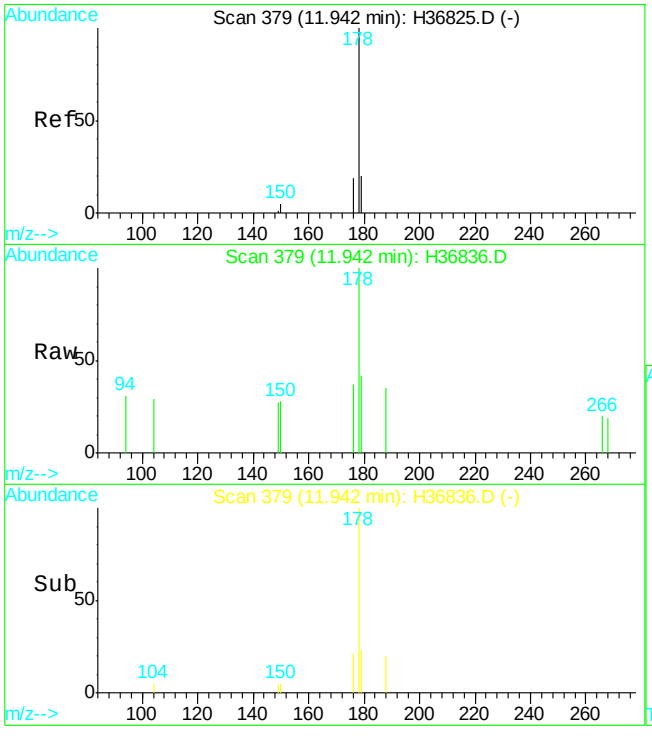


#18
Phenanthrene
Concen: 0.17 ppb
RT: 11.88 min Scan# 376
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:178 Resp: 1264

Ion	Ratio	Lower	Upper
178	100		
179	11.6	11.3	21.1
176	24.0	18.4	34.2

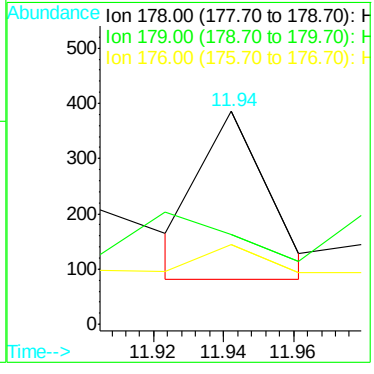


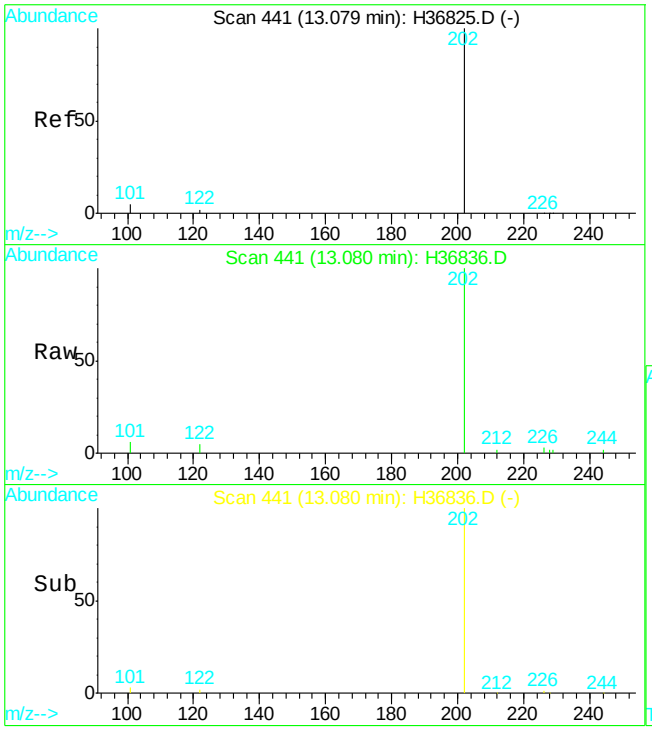


#19
Anthracene
Concen: 0.06 ppb m
RT: 11.94 min Scan# 379
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:178 Resp: 407

Ion	Ratio	Lower	Upper
178	100		
179	42.0	13.9	25.9#
176	37.3	13.7	25.5#

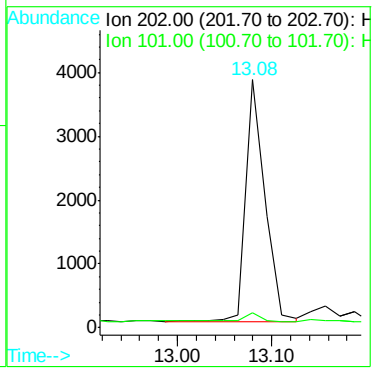


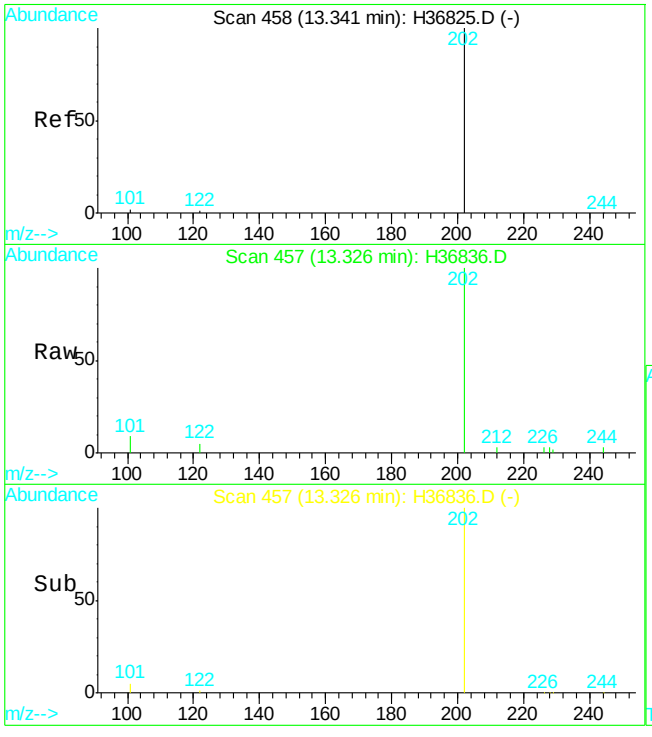


#20
Fluoranthene
Concen: 0.63 ppb
RT: 13.08 min Scan# 441
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:202 Resp: 5328

Ion	Ratio	Lower	Upper
202	100		
101	3.3	3.4	6.2#

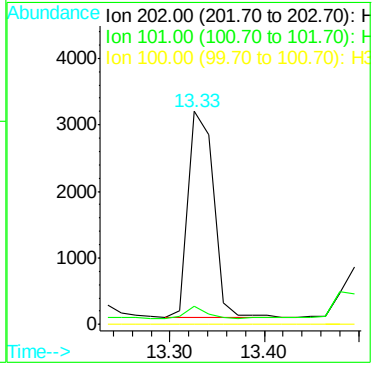


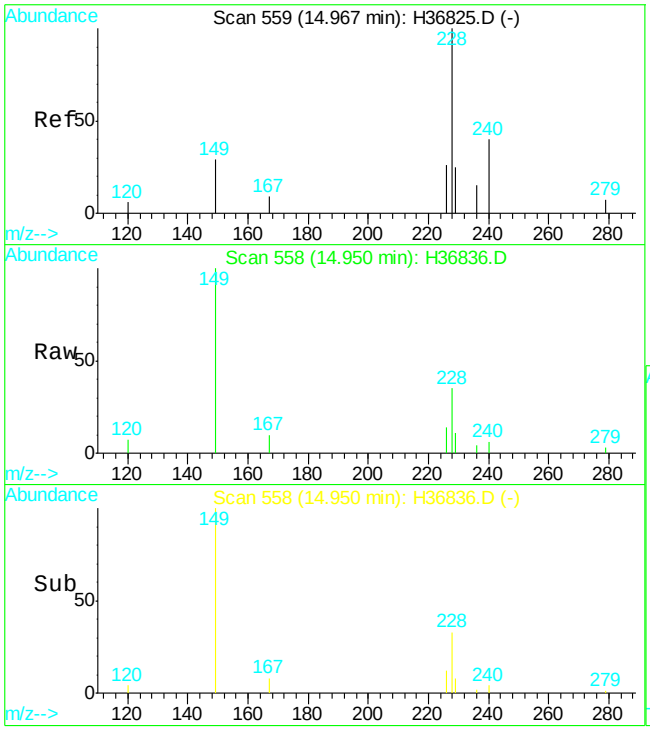


#22
Pyrene
Concen: 0.69 ppb
RT: 13.33 min Scan# 457
Delta R.T. -0.01 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:202 Resp: 5831

Ion	Ratio	Lower	Upper
202	100		
101	5.7	1.5	2.9#
100	0.0	0.0	0.0

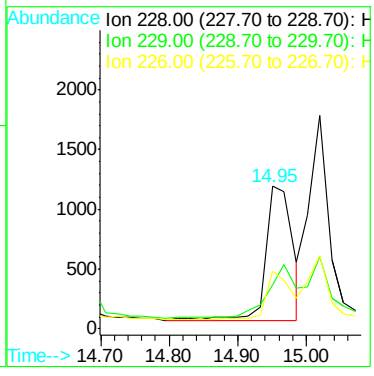


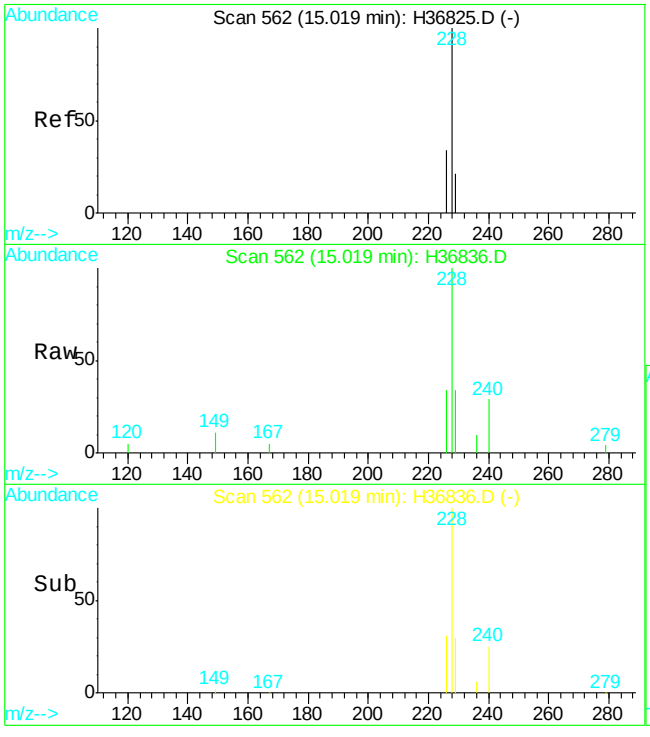


#24
Benzo[a]anthracene
Concen: 0.37 ppb
RT: 14.95 min Scan# 558
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:228 Resp: 3035

Ion	Ratio	Lower	Upper
228	100		
229	17.7	13.6	25.4
226	36.1	24.1	44.8

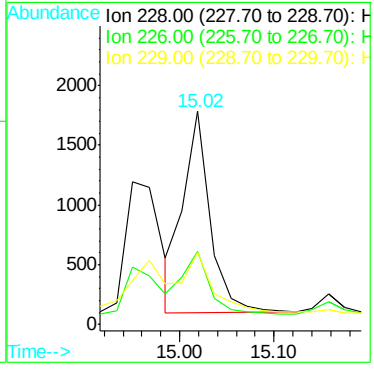


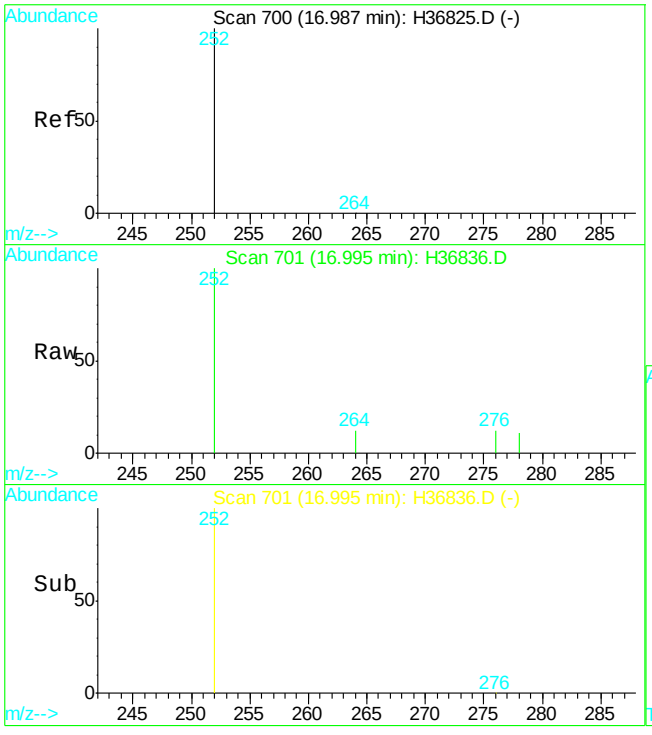


#25
Chrysene
Concen: 0.41 ppb
RT: 15.02 min Scan# 562
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:228 Resp: 3354

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.2	43.2
229	26.3	15.0	28.0

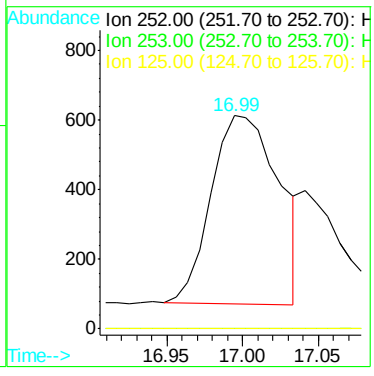


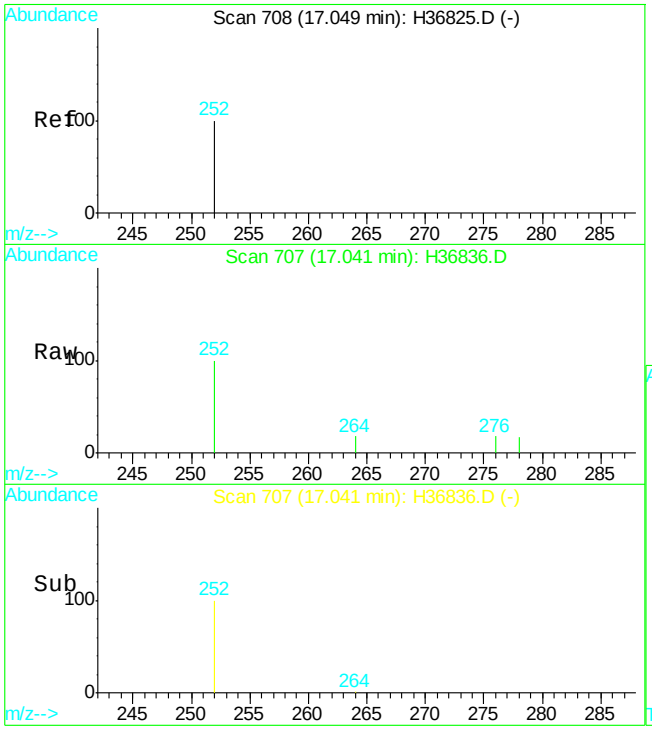


#27
Benzo[b]fluoranthene
Concen: 0.71 ppb m
RT: 16.99 min Scan# 701
Delta R.T. 0.01 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:252 Resp: 1690

Ion	Ratio	Lower	Upper
252	100		
253	0.0	0.0	0.0
125	0.0	0.0	0.0

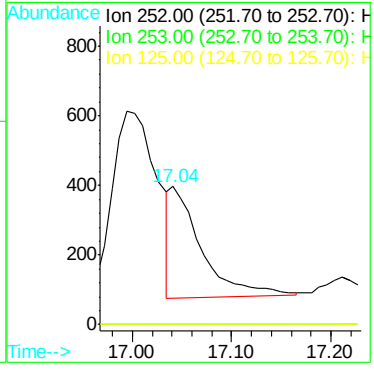


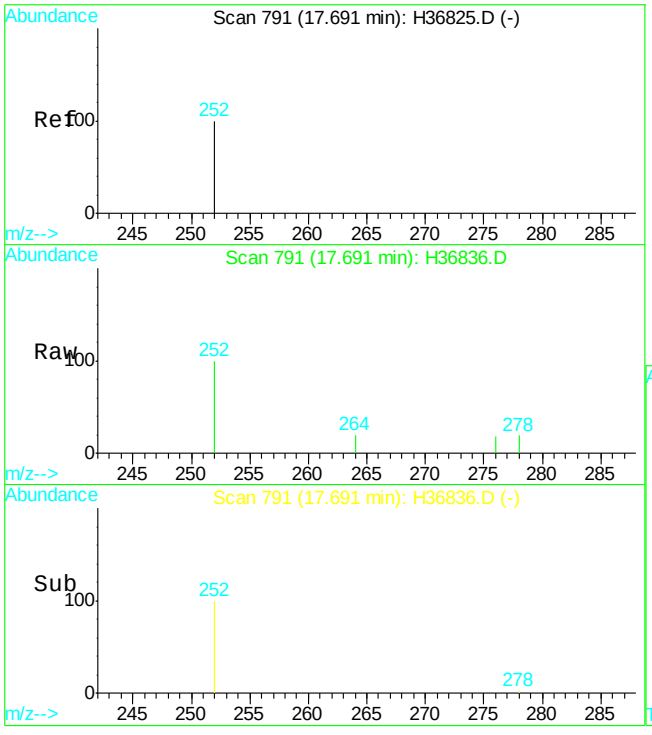


#28
Benzo[k]fluoranthene
Concen: 0.23 ppb m
RT: 17.04 min Scan# 707
Delta R.T. -0.01 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:252 Resp: 706

Ion	Ratio	Lower	Upper
252	100		
253	0.0	0.0	0.0
125	0.0	0.0	0.0

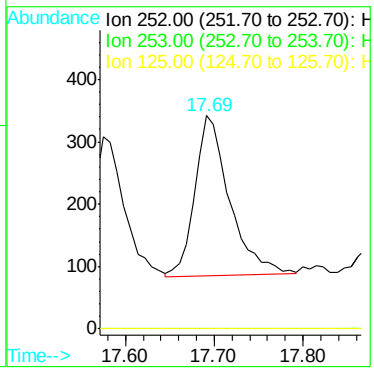


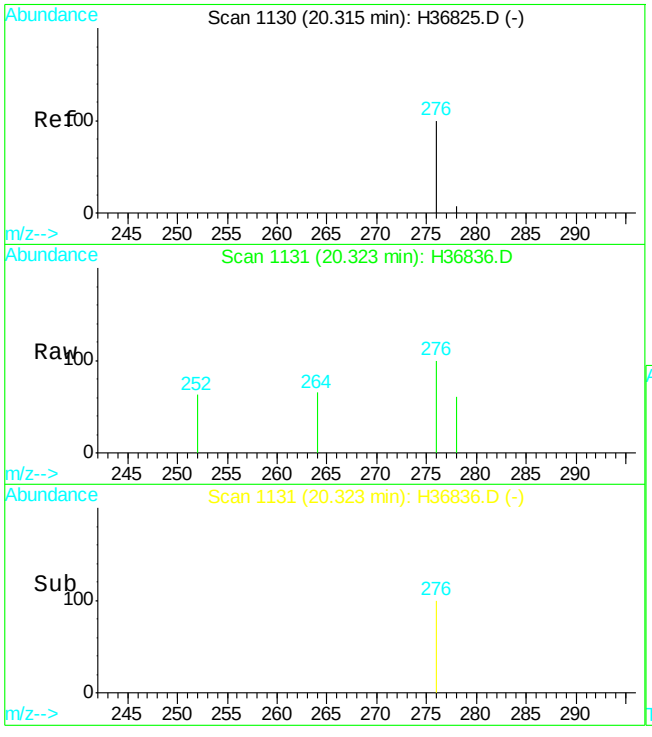


#29
Benzo[a]pyrene
Concen: 0.48 ppb
RT: 17.69 min Scan# 791
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:252 Resp: 704

Ion	Ratio	Lower	Upper
252	100		
253	0.0	0.0	0.0
125	0.0	0.0	0.0

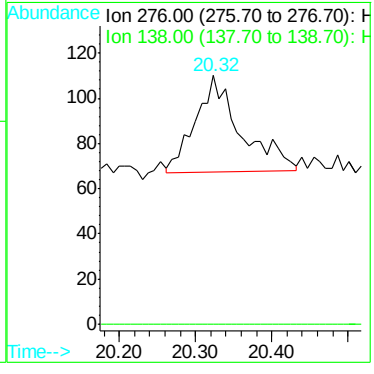


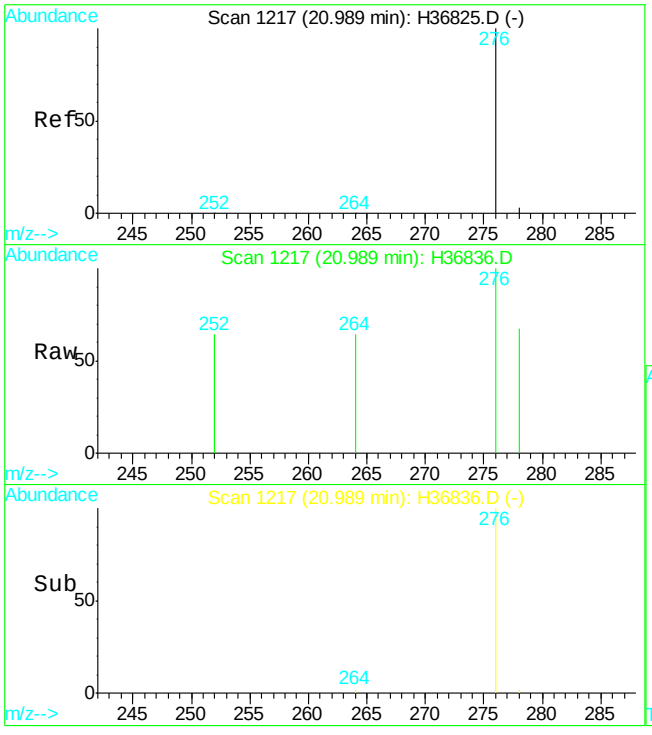


#30
Indeno[1,2,3-cd]pyrene
Concen: 0.37 ppb m
RT: 20.32 min Scan# 1131
Delta R.T. 0.01 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:276 Resp: 181

Ion	Ratio	Lower	Upper
276	100		
138	0.0	0.0	0.0

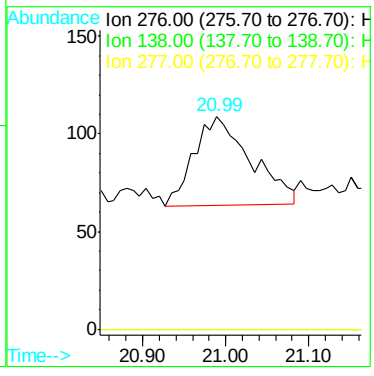




#32
Benzo[g,h,i]perylene
Concen: 0.58 ppb m
RT: 20.99 min Scan# 1217
Delta R.T. 0.00 min
Lab File: H36836.D
Acq: 3 Feb 2010 9:28 pm

Tgt Ion:276 Resp: 222

Ion	Ratio	Lower	Upper
276	100		
138	0.0	0.0	0.0
277	0.0	0.0	0.0



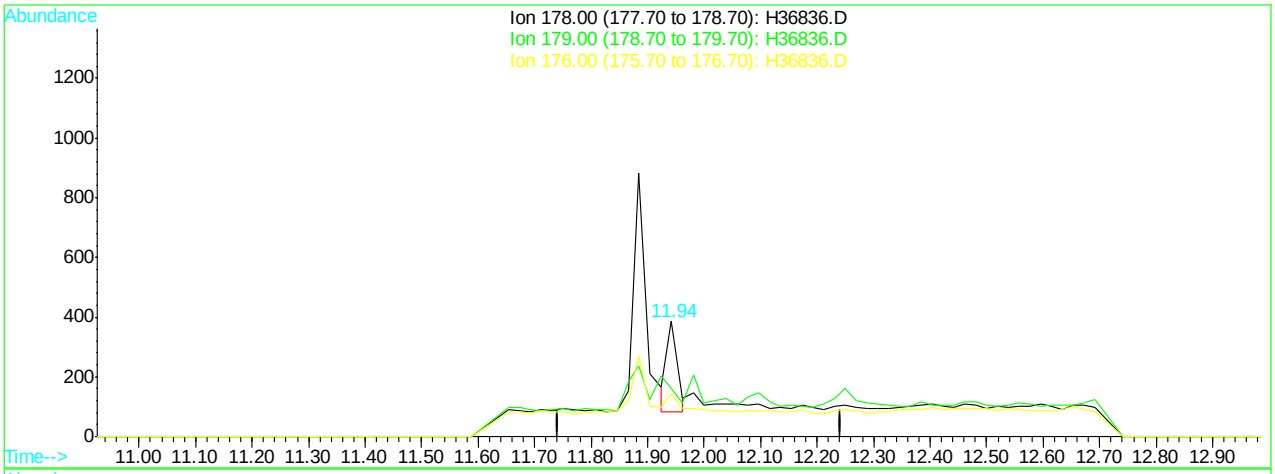
8.1.19

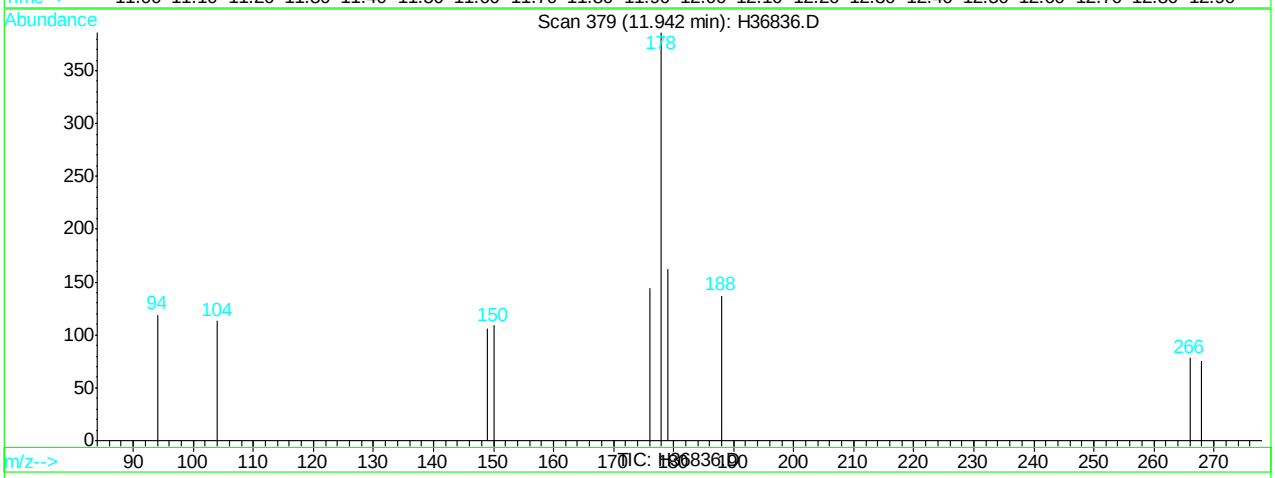
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.94min 0.06ppb m

response 407

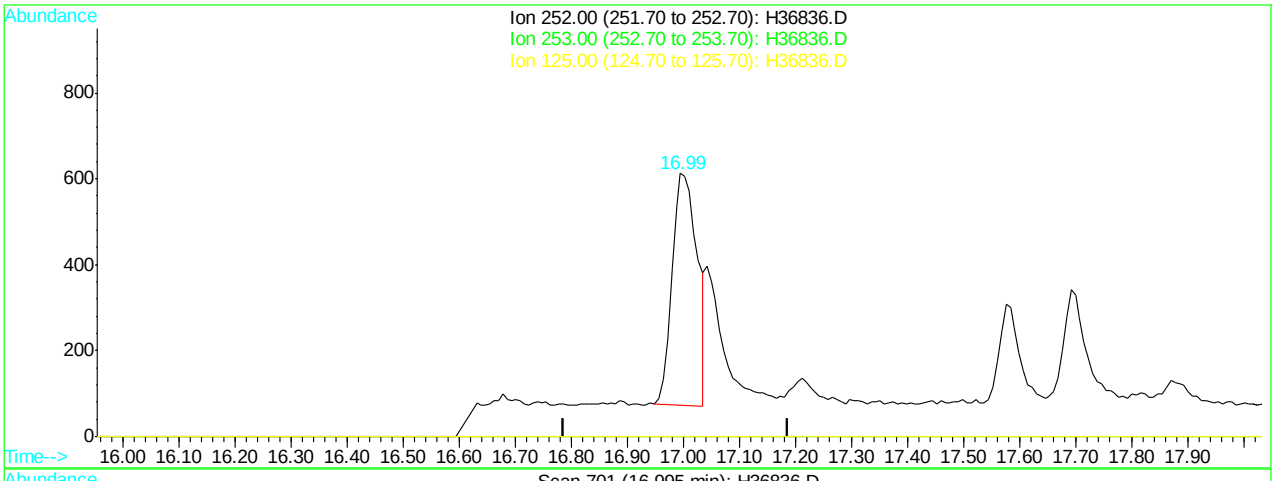
Ion	Exp%	Act%
178.00	100	100
179.00	19.90	41.97#
176.00	19.60	37.31#
0.00	0.00	0.00

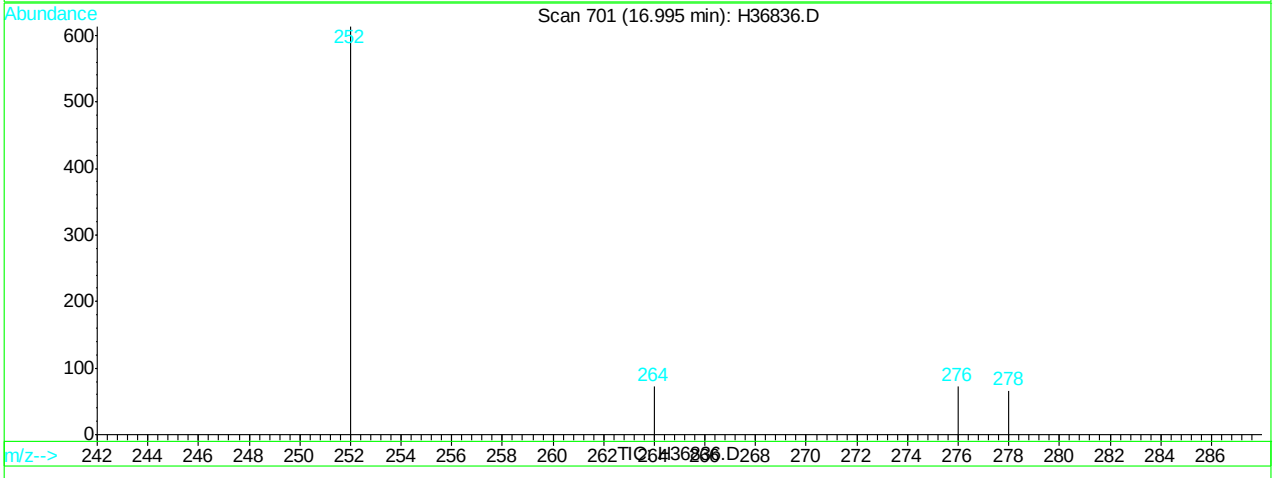
H36836.D H20310SP.M Thu Feb 04 11:19:23 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

16.99min 0.71ppb m

response 1690

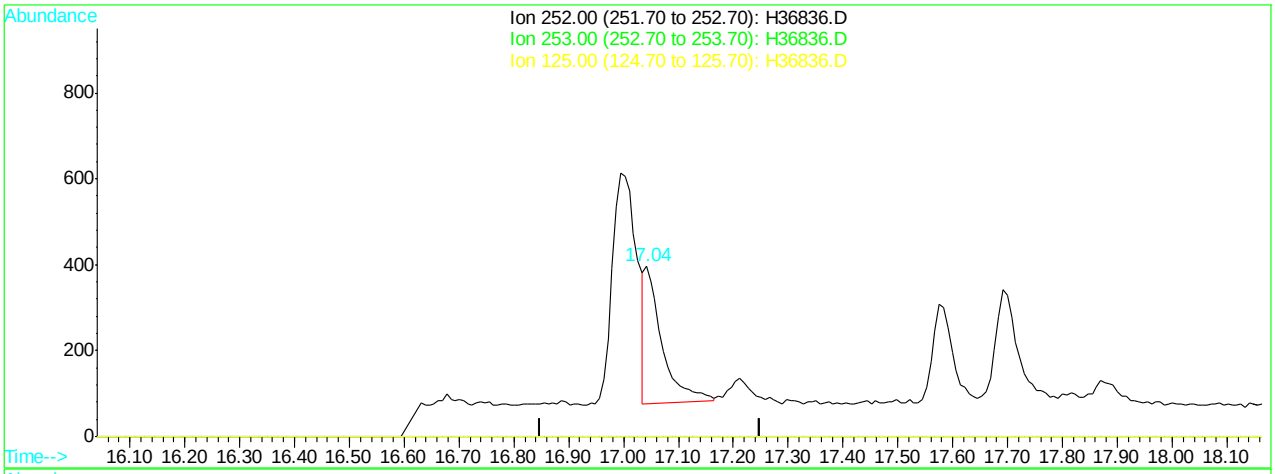
Ion	Exp%	Act%
252.00	100	100
253.00	0.00	0.00
125.00	0.00	0.00
0.00	0.00	0.00

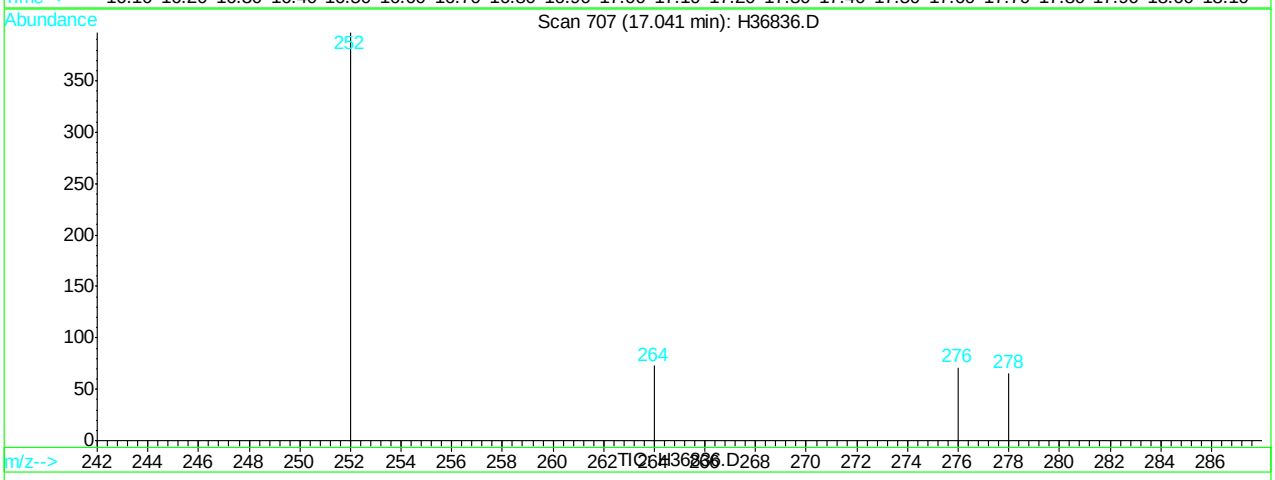
H36836.D H20310SP.M Thu Feb 04 11:19:27 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

17.04min 0.23ppb m

response 706

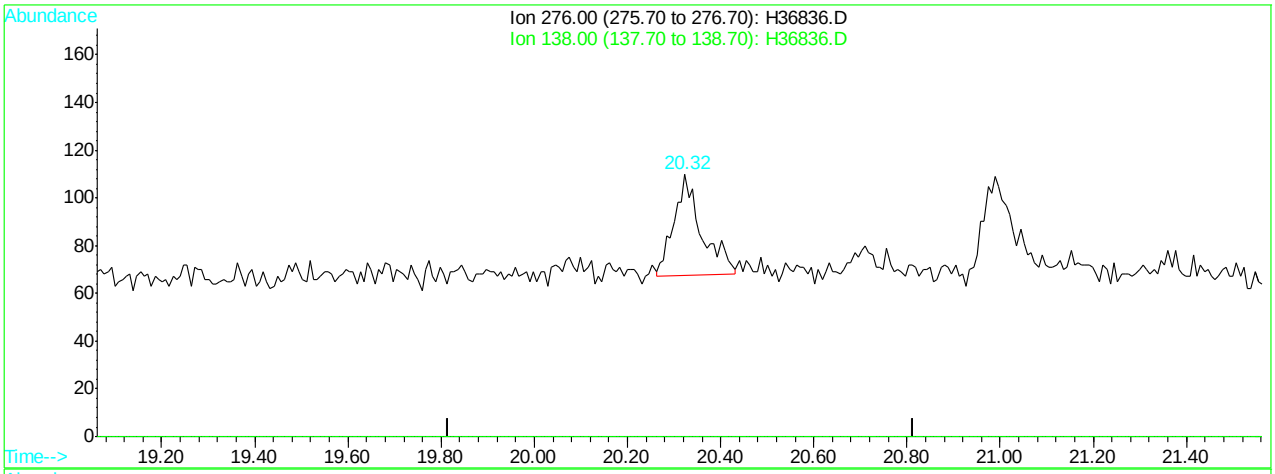
Ion	Exp%	Act%
252.00	100	100
253.00	0.00	0.00
125.00	0.00	0.00
0.00	0.00	0.00

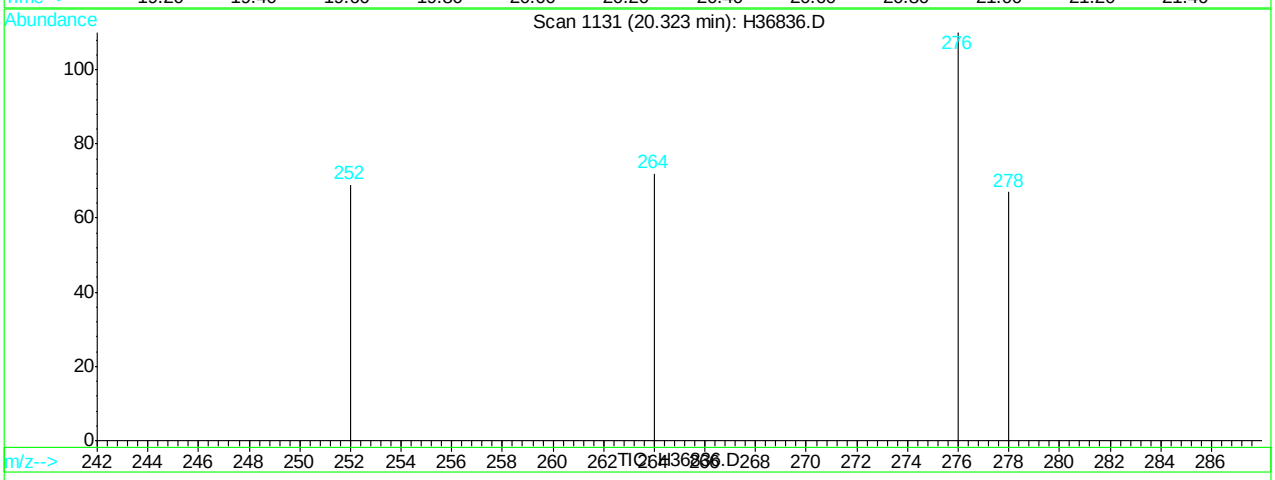
H36836.D H20310SP.M Thu Feb 04 11:19:30 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration





(30) Indeno[1,2,3-cd]pyrene (T)

20.32min 0.37ppb m

response 181

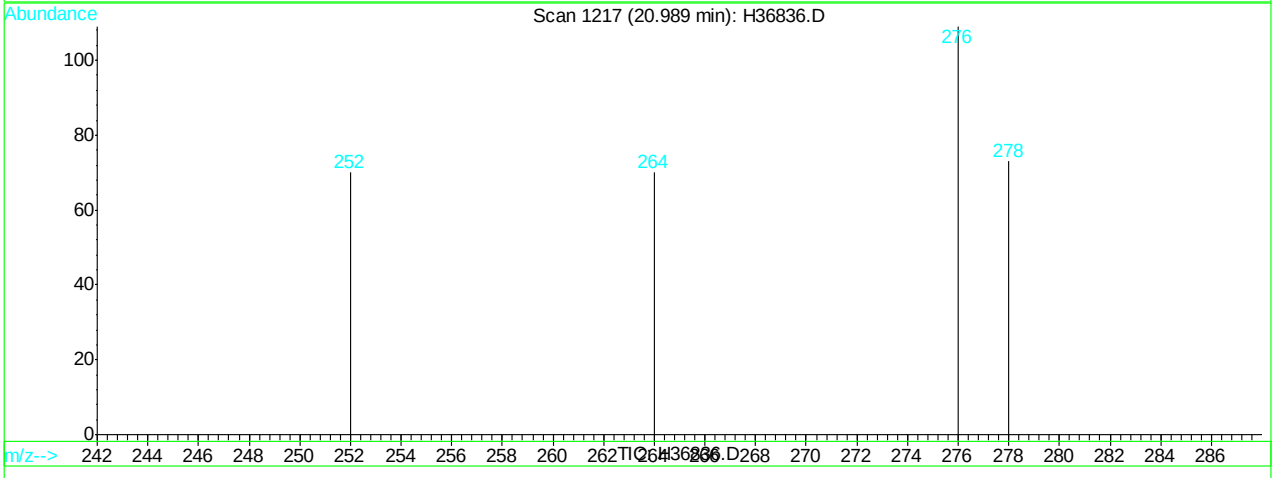
Ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H36836.D H20310SP.M Thu Feb 04 11:19:33 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36836.D Vial: 19
Acq On : 3 Feb 2010 9:28 pm Operator: sheilac
Sample : t46705-3 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:18 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 08:37:42 2010
Response via : Multiple Level Calibration



(32) Benzo[g,h,i]perylene (T)

20.99min 0.58ppb m

response 222

Ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
277.00	0.00	0.00
0.00	0.00	0.00

H36836.D H20310SP.M Thu Feb 04 11:19:36 2010

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36833.D Vial: 16
Acq On : 3 Feb 2010 8:03 pm Operator: sheilac
Sample : t46705-4 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 20:24 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 18:42:21 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	9323	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	10416	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	9408	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	16090	4.00	ppb	0.00
21) Chrysene-d12	14.99	240	22033	4.00	ppb	0.00
26) Perylene-d12	17.82	264	5256	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	7.40	82	39308	20.35	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 407.00%#			
10) 2-Fluorobiphenyl	9.63	172	189078	14.27	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 285.40%#			
16) 2,4,6-Tribromophenol	11.18	330	118051	65.09	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 650.90%#			
23) Terphenyl-d14	13.50	244	166606	33.72	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 674.40%#			

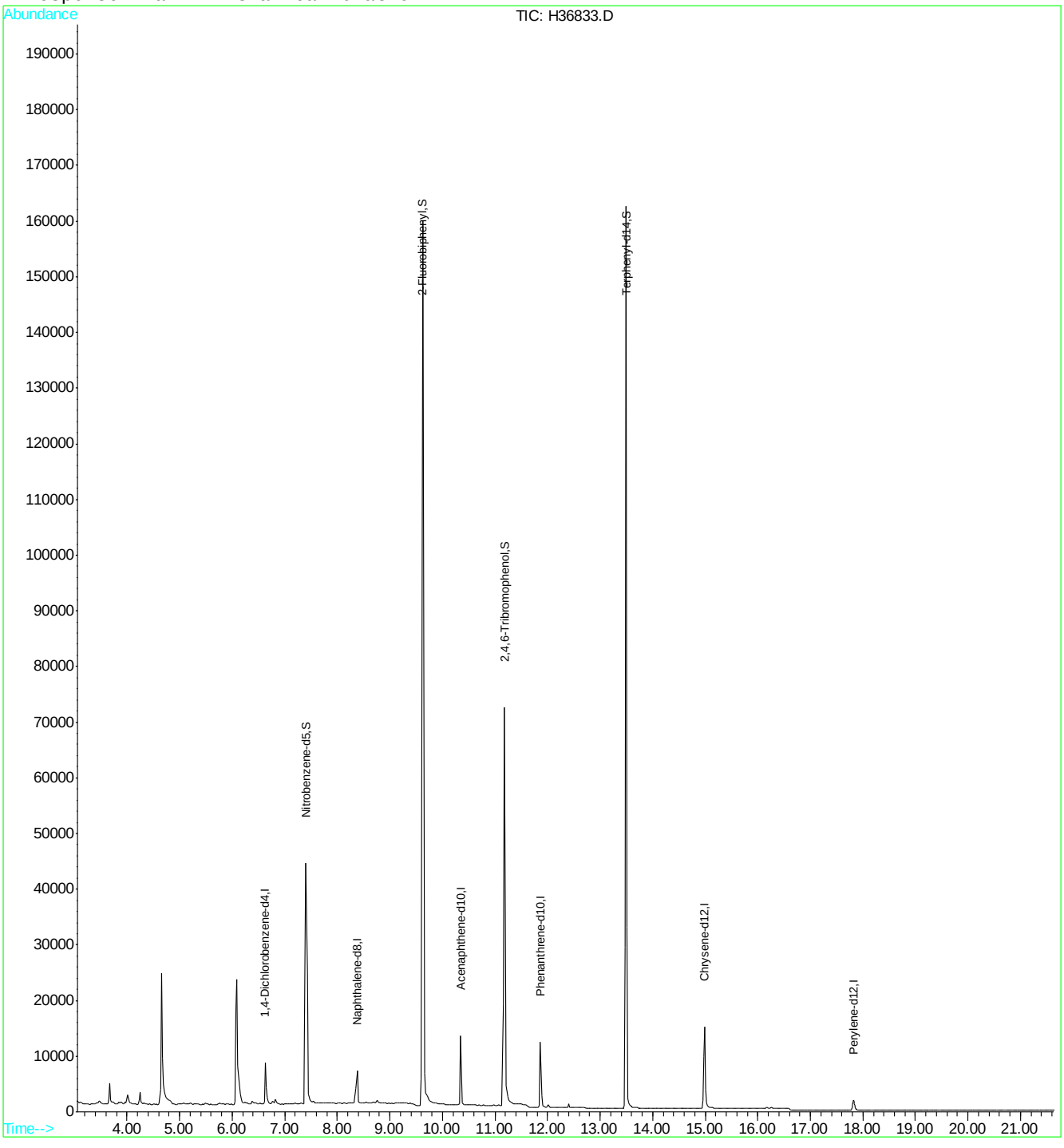
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H36833.D H20410SP.M Thu Feb 04 12:00:50 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36833.D Vial: 16
Acq On : 3 Feb 2010 8:03 pm Operator: sheilac
Sample : t46705-4 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 20:24 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20410SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 11:56:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36834.D Vial: 17
Acq On : 3 Feb 2010 8:31 pm Operator: sheilac
Sample : t46705-5 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 8:23 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 18:42:21 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	11171	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	13697	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	9991	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	18680	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	27142	4.00	ppb	0.00
26) Perylene-d12	17.82	264	5963	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	7.40	82	45164	17.48	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 349.60%#			
10) 2-Fluorobiphenyl	9.63	172	244421	17.37	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 347.40%#			
16) 2,4,6-Tribromophenol	11.19	330	165232	78.47	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 784.70%#			
23) Terphenyl-d14	13.49	244	198292	32.58	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 651.60%#			

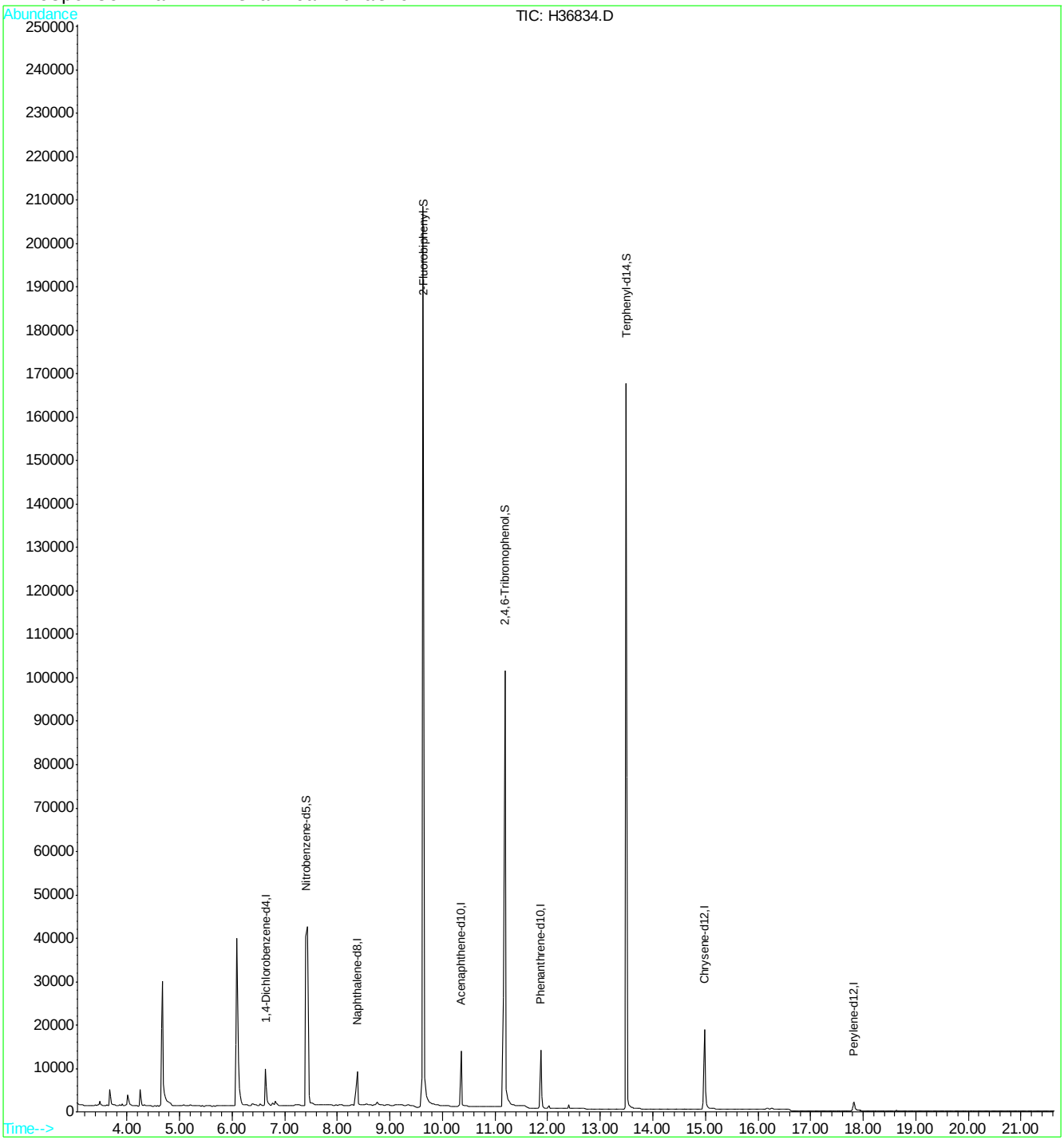
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H36834.D H20310SP.M Thu Feb 04 08:23:54 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36834.D Vial: 17
Acq On : 3 Feb 2010 8:31 pm Operator: sheilac
Sample : t46705-5 Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 4 8:23 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 18:42:21 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 13:24:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.157	152	534130	40.00 ppm	0.00
25) Naphthalene-d8	6.462	136	1859031	40.00 ppm	0.00
46) Acenaphthene-d10	9.072	164	1174493	40.00 ppm	0.00
70) Phenanthrene-d10	11.934	188	1894044	40.00 ppm	0.00
85) Chrysene-d12	17.518	240	1535941	40.00 ppm	-0.01
94) Perylene-d12	20.395	264	1100633	40.00 ppm	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.136	112	755340	38.32 ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 38.32%		
12) Phenol-d5	4.916	99	718587	31.20 ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 31.20%		
26) Nitrobenzene-d5	5.681	82	821607	35.19 ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.38%		
50) 2-Fluorobiphenyl	7.944	172	1641593	38.87 ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 77.74%		
75) 2,4,6-Tribromophenol	10.559	330	321490	65.43 ppm	-0.04
Spiked Amount 100.000	Range 32 - 128		Recovery = 65.43%		
88) Terphenyl-d14	15.330	244	1645861	41.50 ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 83.00%		
Target Compounds					Qvalue
93) bis(2-Ethylhexyl)phtha...	17.684	149	60948	1.45 ppm	# 50

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

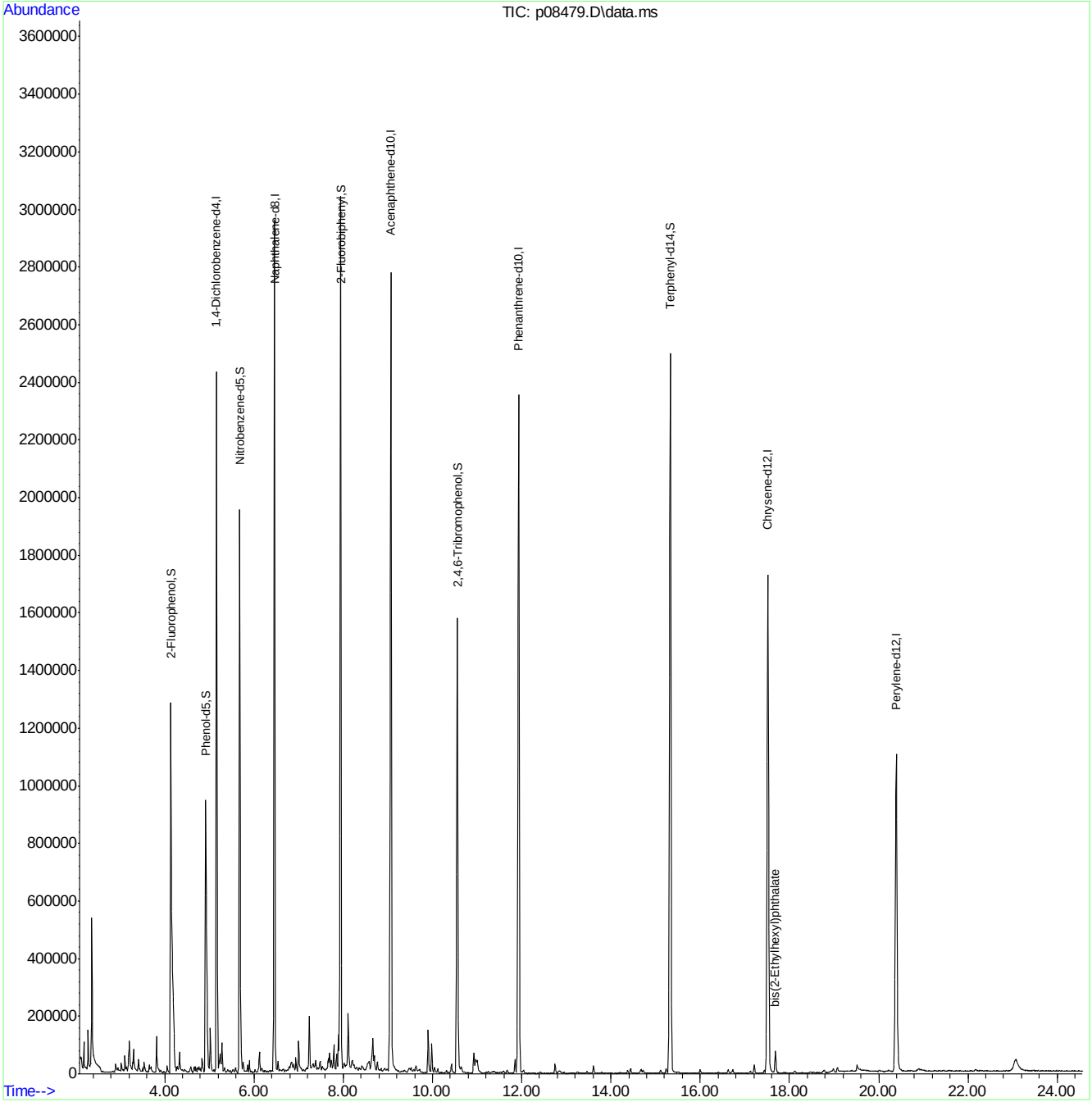
8.2.1

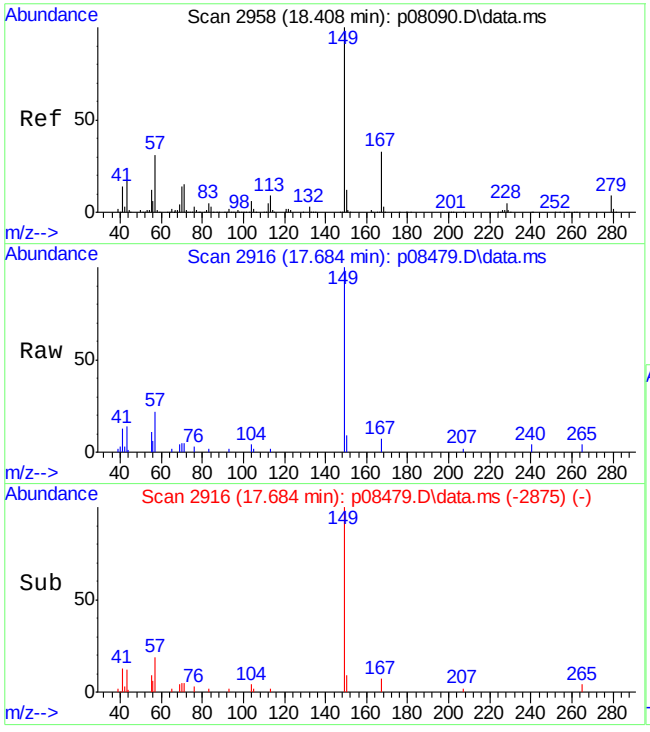
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 13:24:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

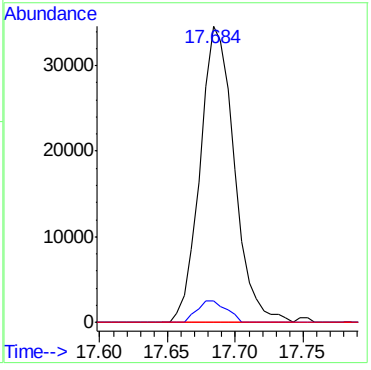




#93
bis(2-Ethylhexyl)phthalate
Concen: 1.45 ppm
RT: 17.684 min Scan# 2916
Delta R.T. 0.018 min
Lab File: p08479.D
Acq: 3 Feb 2010 6:15 pm

Tgt Ion:149 Resp: 60948

Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.9	60.9#
279	0.0	0.0	37.0



8.2.1

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

Signal : TIC: p08479.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.189	16	19	33	rVB	94467	90121	1.70%	0.172%
2	2.280	33	36	45	rBV	136531	148612	2.81%	0.284%
3	2.370	45	53	73	rBV	518036	653465	12.34%	1.247%
4	2.905	146	153	158	rBV2	31228	42001	0.79%	0.080%
5	3.028	173	176	183	rBV2	29527	36397	0.69%	0.069%
6	3.109	187	191	195	rVV	53382	53501	1.01%	0.102%
7	3.205	203	209	220	rVV	104852	184665	3.49%	0.352%
8	3.301	221	227	242	rVV2	78074	145247	2.74%	0.277%
9	3.413	244	248	262	rVB2	42918	56032	1.06%	0.107%
10	3.536	268	271	285	rVB	33568	48818	0.92%	0.093%
11	3.649	290	292	296	rBV	24018	27262	0.51%	0.052%
12	3.692	297	300	313	rVB3	19710	34327	0.65%	0.066%
13	3.815	319	323	337	rBV	125948	173566	3.28%	0.331%
14	4.055	360	368	377	rBV2	25278	38907	0.73%	0.074%
15	4.136	377	383	407	rBV	1280876	2788768	52.68%	5.323%
16	4.328	413	419	428	rVB	64767	80355	1.52%	0.153%
17	4.446	438	441	455	rVB5	12003	24325	0.46%	0.046%
18	4.585	461	467	476	rVB3	21553	40385	0.76%	0.077%
19	4.660	476	481	485	rBV2	20519	34438	0.65%	0.066%
20	4.697	485	488	493	rVV4	18877	23651	0.45%	0.045%
21	4.761	498	500	503	rVV3	20751	23777	0.45%	0.045%
22	4.842	510	515	522	rVB4	48471	70264	1.33%	0.134%
23	4.916	522	529	544	rBV	944738	2066260	39.03%	3.944%
24	5.023	544	549	560	rVV3	152399	218028	4.12%	0.416%
25	5.157	568	574	583	rVV	2430028	3376142	63.78%	6.444%
26	5.221	583	586	588	rVV	41618	47143	0.89%	0.090%
27	5.243	588	590	594	rVV	61690	81823	1.55%	0.156%
28	5.280	594	597	605	rVV	102215	135794	2.57%	0.259%
29	5.339	605	608	615	rVB2	18660	23793	0.45%	0.045%
30	5.532	637	644	650	rBV6	11696	24279	0.46%	0.046%
31	5.585	650	654	663	rVB3	16620	28493	0.54%	0.054%
32	5.681	664	672	682	rBV	1955077	2622801	49.54%	5.006%
33	5.751	682	685	694	rVB5	33216	57592	1.09%	0.110%
34	5.852	700	704	709	rVB	25532	28827	0.54%	0.055%

ep393.m Thu Feb 04 13:26:05 2010 Page: 1

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

35	5.895	709	712	717	rVB	43305	41415	0.78%	0.079%
36	6.120	746	754	761	rBV	70666	116848	2.21%	0.223%
37	6.462	809	818	827	rBV	2952605	4306611	81.35%	8.220%
38	6.537	828	832	836	rVB	35804	40914	0.77%	0.078%
39	6.655	848	854	860	rVB7	9639	23844	0.45%	0.046%
40	6.788	869	879	882	rBV3	16054	33536	0.63%	0.064%
41	6.842	882	889	896	rVV5	22511	61696	1.17%	0.118%
42	6.895	896	899	903	rVB2	20126	25468	0.48%	0.049%
43	6.938	903	907	914	rVB	46919	61840	1.17%	0.118%
44	7.002	914	919	927	rBV	103018	152870	2.89%	0.292%
45	7.190	945	954	957	rBV7	12035	28674	0.54%	0.055%
46	7.238	957	963	971	rBV	186757	239636	4.53%	0.457%
47	7.382	985	990	994	rVB4	32243	48851	0.92%	0.093%
48	7.484	1004	1009	1014	rVB2	31185	42444	0.80%	0.081%
49	7.527	1014	1017	1030	rVB6	12790	29346	0.55%	0.056%
50	7.666	1034	1043	1045	rBV	38366	58754	1.11%	0.112%
51	7.692	1045	1048	1053	rVB2	52628	71044	1.34%	0.136%
52	7.735	1053	1056	1061	rVB	26579	31199	0.59%	0.060%
53	7.789	1061	1066	1074	rVB	83070	104467	1.97%	0.199%
54	7.853	1074	1078	1082	rBV	52677	66624	1.26%	0.127%
55	7.896	1082	1086	1088	rVV	113851	131340	2.48%	0.251%
56	7.944	1088	1095	1103	rVB	3025961	4816888	90.99%	9.194%
57	8.115	1120	1127	1137	rVB	188597	289094	5.46%	0.552%
58	8.206	1137	1144	1148	rBV5	25276	50774	0.96%	0.097%
59	8.420	1180	1184	1193	rVB5	16137	32176	0.61%	0.061%
60	8.580	1200	1214	1219	rBV7	28177	92611	1.75%	0.177%
61	8.666	1219	1230	1234	rVV2	108571	232435	4.39%	0.444%
62	8.698	1234	1236	1244	rVB	51859	60132	1.14%	0.115%
63	8.767	1244	1249	1255	rBV2	28404	40357	0.76%	0.077%
64	8.928	1269	1279	1284	rBV8	10827	28642	0.54%	0.055%
65	9.067	1293	1305	1327	rBV	2770972	5283258	99.80%	10.084%
66	9.479	1372	1382	1386	rBV5	13532	35214	0.67%	0.067%
67	9.522	1386	1390	1396	rVV4	17444	28170	0.53%	0.054%
68	9.634	1405	1411	1417	rVV4	23206	49811	0.94%	0.095%
69	9.709	1417	1425	1430	rVB4	11078	26075	0.49%	0.050%
70	9.907	1455	1462	1468	rVV	147992	217420	4.11%	0.415%
71	9.982	1470	1476	1483	rVV	100115	145698	2.75%	0.278%

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1500 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\ep393.m
Title : SW846 8270C Appendix 9

72	10.046	1483	1488	1496	rVV	17941	34704	0.66%	0.066%
73	10.121	1496	1502	1510	rVB4	16465	25509	0.48%	0.049%
74	10.426	1550	1559	1564	rBV2	29806	49953	0.94%	0.095%
75	10.554	1573	1583	1597	rBV	1577857	3115330	58.85%	5.946%
76	10.645	1597	1600	1608	rVB3	19730	34787	0.66%	0.066%
77	10.928	1646	1653	1656	rBV	69931	108241	2.04%	0.207%
78	10.976	1657	1662	1665	rBV3	19437	37390	0.71%	0.071%
79	11.854	1818	1826	1830	rBV	49583	76109	1.44%	0.145%
80	11.934	1830	1841	1853	rVV2	2355274	4974296	93.96%	9.495%
81	12.041	1854	1861	1867	rVB6	10694	22131	0.42%	0.042%
82	12.747	1985	1993	2002	rBV2	33796	51900	0.98%	0.099%
83	12.838	2002	2010	2025	rVV2	9189	35742	0.68%	0.068%
84	13.608	2149	2154	2169	rVB2	25048	40787	0.77%	0.078%
85	14.442	2304	2310	2317	rBV	18320	31856	0.60%	0.061%
86	14.672	2341	2353	2357	rBV3	14240	30300	0.57%	0.058%
87	14.720	2357	2362	2370	rVV5	11093	22557	0.43%	0.043%
88	15.234	2451	2458	2464	rBV	16022	27476	0.52%	0.052%
89	15.330	2464	2476	2499	rVV2	2496608	5293788	100.00%	10.104%
90	16.625	2709	2718	2726	rBV3	12191	23457	0.44%	0.045%
91	16.732	2726	2738	2745	rVB4	13205	30349	0.57%	0.058%
92	17.213	2821	2828	2837	rVB	30318	50542	0.95%	0.096%
93	17.518	2874	2885	2905	rVV	1729710	4008235	75.72%	7.651%
94	17.684	2909	2916	2927	rVB	75900	130518	2.47%	0.249%
95	18.989	3154	3160	3167	rVV2	11600	23512	0.44%	0.045%
96	19.074	3171	3176	3183	rVV2	16257	28624	0.54%	0.055%
97	19.513	3252	3258	3265	rBV4	21821	44801	0.85%	0.086%
98	20.395	3409	3423	3448	rBV	1099932	3060605	57.82%	5.842%
99	20.903	3504	3518	3521	rBV8	8684	28765	0.54%	0.055%
100	23.080	3903	3925	3951	rBV5	38784	272552	5.15%	0.520%

Sum of corrected areas: 52390851

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On    :  3 Feb 2010   6:15 pm
Operator  : garyj
Sample    : op13976-mb
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
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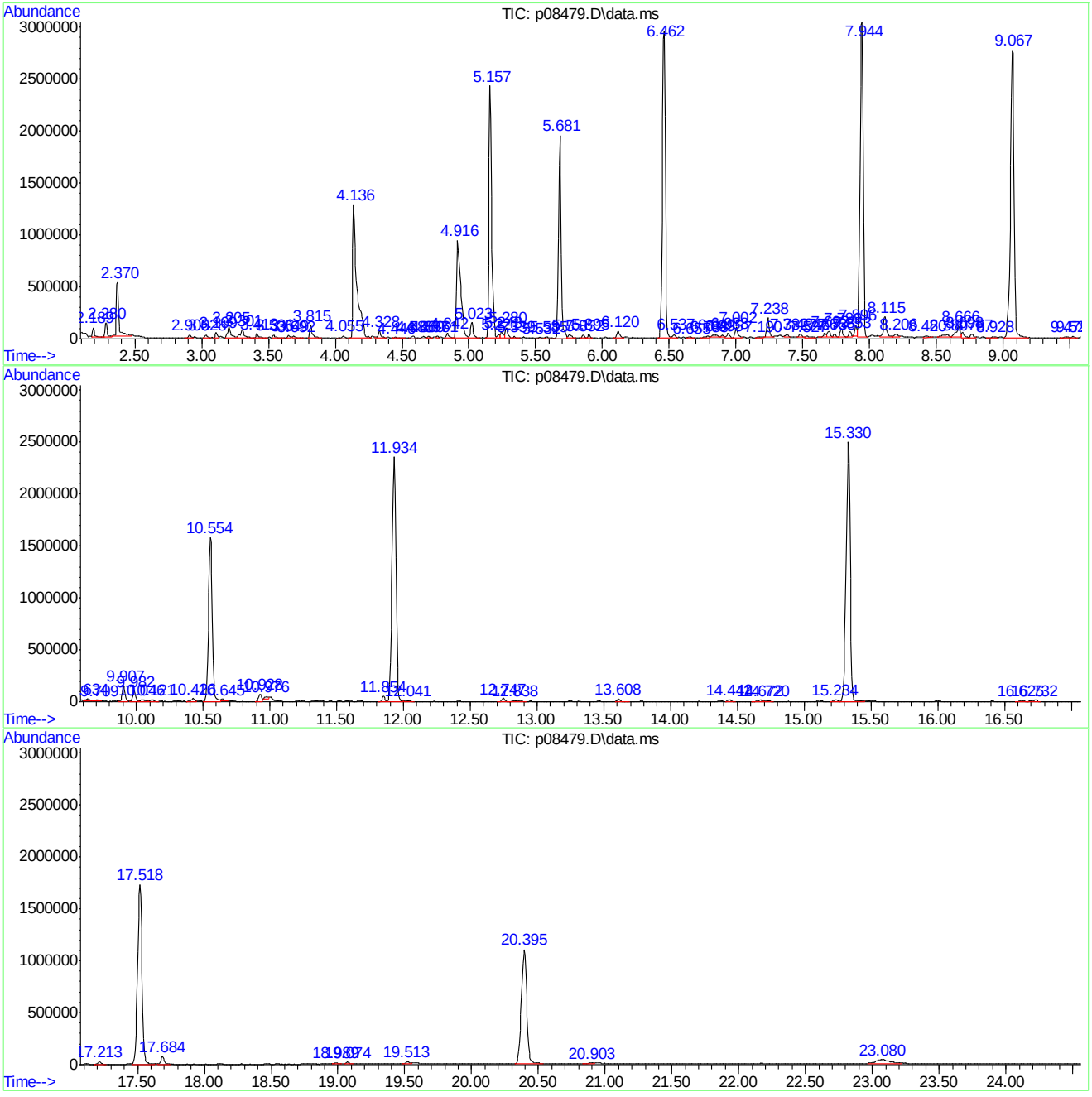

Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On    :  3 Feb 2010   6:15 pm
Operator  : garyj
Sample    : op13976-mb
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9

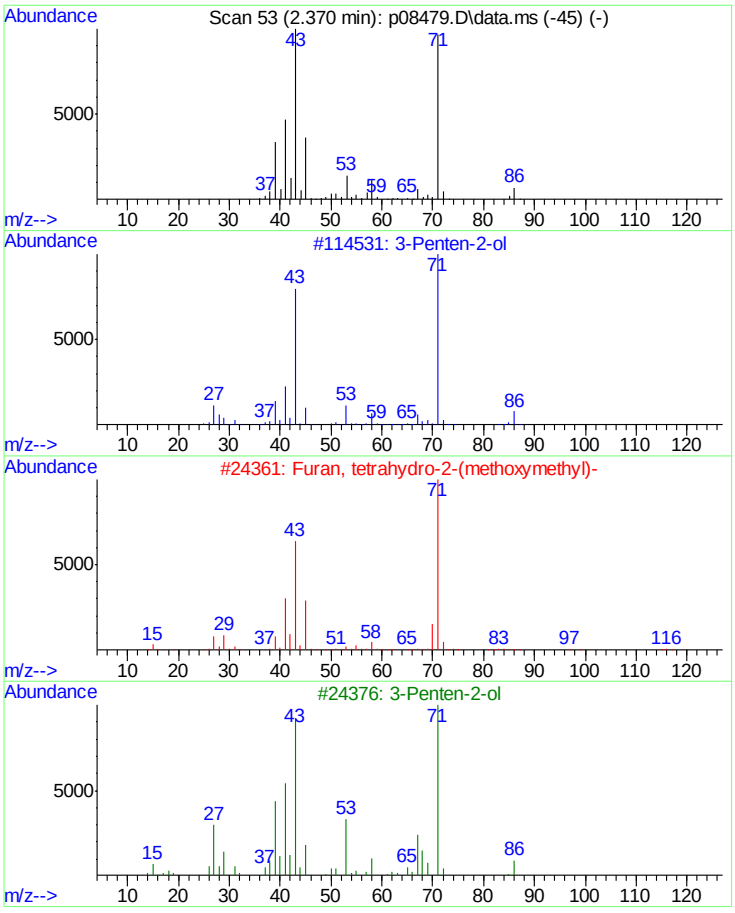
TIC Library    : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P
```

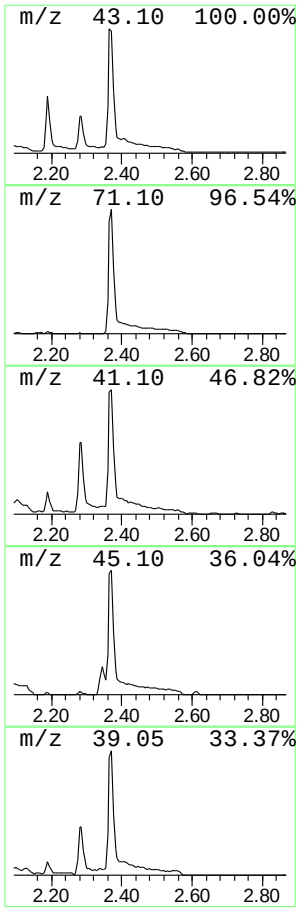
****

Peak Number 1 3-Penten-2-ol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.370	7.74 ppm	653465	1,4-Dichlorobenzene-d4	5.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-ol	86	C5H10O	001569-50-2	83
2	Furan, tetrahydro-2-(methoxymeth...	116	C6H12O2	019354-27-9	72
3	3-Penten-2-ol	86	C5H10O	001569-50-2	72
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	72
5	Butanoic acid, anhydride	158	C8H14O3	000106-31-0	56





ep393.m Thu Feb 04 13:26:05 2010 Page: 5

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08479.D
Acq On : 3 Feb 2010 6:15 pm
Operator : garyj
Sample : op13976-mb
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9

TIC Library : C:\DATABASE\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
3-Penten-2-ol	2.370	7.7	ppm	653465	1	5.157	3376140	40.0

8.2.2

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08482.D
Acq On : 3 Feb 2010 7:48 pm
Operator : garyj
Sample : op13984-mb
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 20:12:05 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.157	152	457606	40.00 ppm	0.00
25) Naphthalene-d8	6.457	136	1535357	40.00 ppm	0.00
46) Acenaphthene-d10	9.067	164	966630	40.00 ppm	0.00
70) Phenanthrene-d10	11.928	188	1485778	40.00 ppm	-0.01
85) Chrysene-d12	17.518	240	1149611	40.00 ppm	-0.01
94) Perylene-d12	20.395	264	805603	40.00 ppm	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.125	112	1094570	64.81 ppm	-0.02
Spiked Amount 100.000	Range 26 - 124		Recovery = 64.81%		
12) Phenol-d5	4.900	99	1577497	79.96 ppm	0.00
Spiked Amount 100.000	Range 19 - 106		Recovery = 79.96%		
26) Nitrobenzene-d5	5.681	82	729259	37.81 ppm	-0.02
Spiked Amount 50.000	Range 18 - 104		Recovery = 75.62%		
50) 2-Fluorobiphenyl	7.938	172	1413459	40.98 ppm	-0.02
Spiked Amount 50.000	Range 21 - 114		Recovery = 81.96%		
75) 2,4,6-Tribromophenol	10.554	330	243338	63.14 ppm	-0.05
Spiked Amount 100.000	Range 18 - 129		Recovery = 63.14%		
88) Terphenyl-d14	15.325	244	1191849	40.15 ppm	-0.03
Spiked Amount 50.000	Range 24 - 149		Recovery = 80.30%		

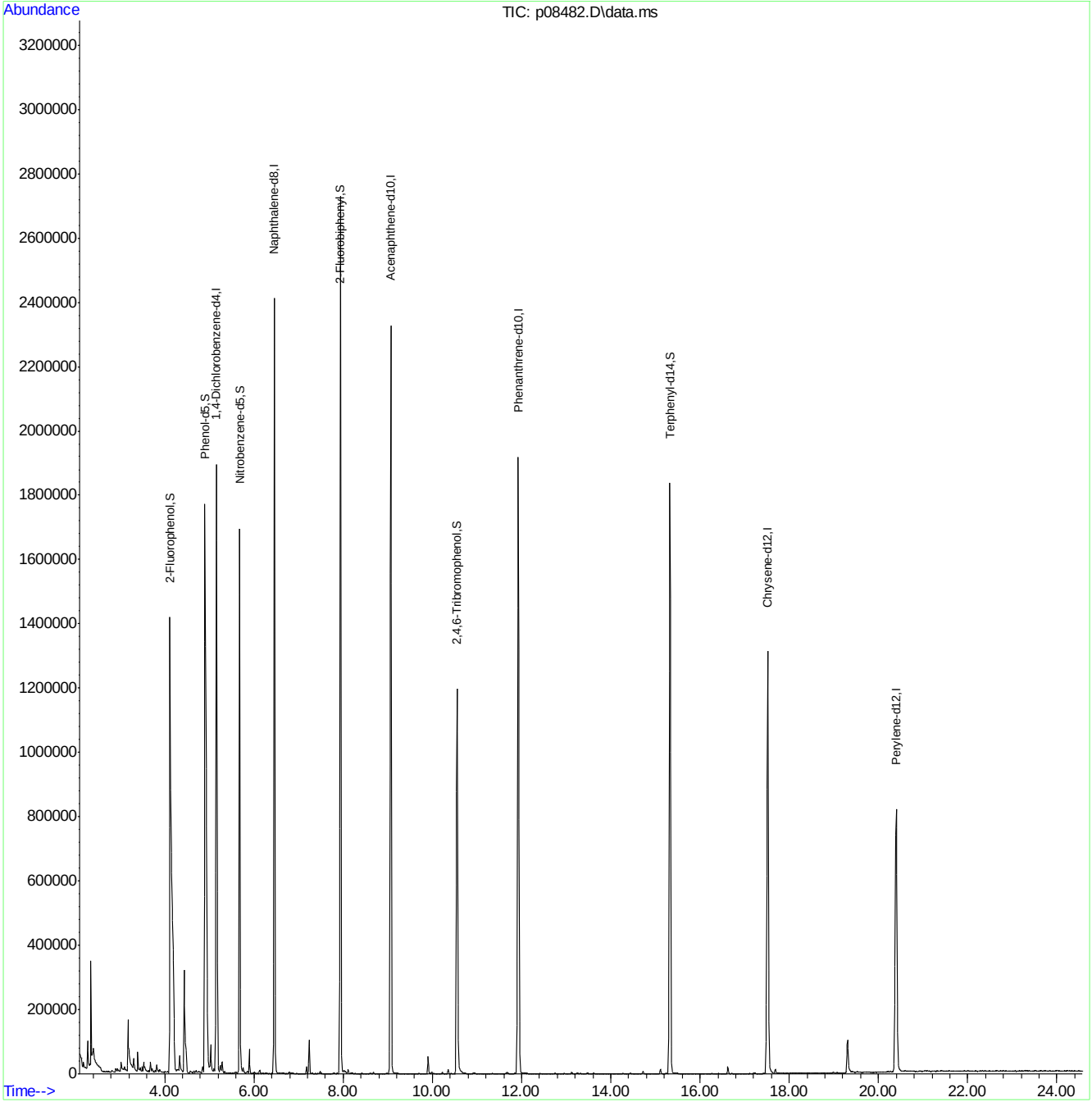
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08482.D
Acq On : 3 Feb 2010 7:48 pm
Operator : garyj
Sample : op13984-mb
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 20:12:05 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36827.D Vial: 10
Acq On : 3 Feb 2010 4:51 pm Operator: sheilac
Sample : op13977-mb Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:32 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:12:05 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	7789	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	10407	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	6527	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	13182	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	20973	4.00	ppb	0.00
26) Perylene-d12	17.81	264	5979	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	7.43	82	36520	18.75	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 375.00%#			
10) 2-Fluorobiphenyl	9.63	172	192374	20.92	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 418.40%#			
16) 2,4,6-Tribromophenol	11.18	330	96577	50.23	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 502.30%#			
23) Terphenyl-d14	13.49	244	152931	32.52	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 650.40%#			

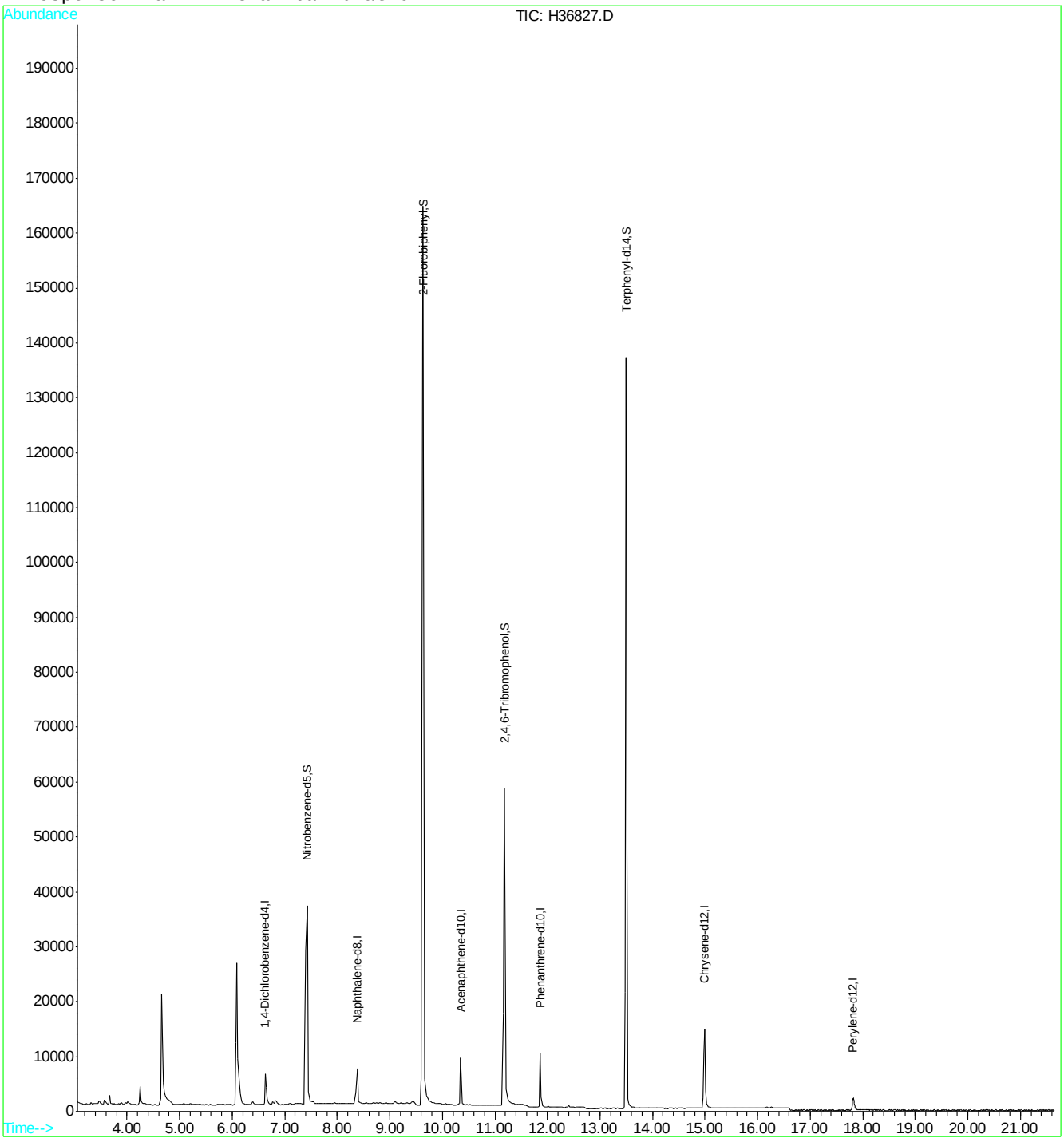
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H36827.D H20310SP.M Wed Feb 03 17:58:41 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36827.D Vial: 10
Acq On : 3 Feb 2010 4:51 pm Operator: sheilac
Sample : op13977-mb Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:32 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:50:41 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08480.D
Acq On : 3 Feb 2010 6:46 pm
Operator : garyj
Sample : op13976-bs
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 19:09:49 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	442339	40.00	ppm	0.00
25) Naphthalene-d8	6.462	136	1565355	40.00	ppm	0.00
46) Acenaphthene-d10	9.077	164	1017713	40.00	ppm	0.00
70) Phenanthrene-d10	11.939	188	1694634	40.00	ppm	0.00
85) Chrysene-d12	17.534	240	1528139	40.00	ppm	0.00
94) Perylene-d12	20.401	264	1078914	40.00	ppm	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.141	112	795014	48.70	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 48.70%			
12) Phenol-d5	4.911	99	655295	34.36	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 34.36%			
26) Nitrobenzene-d5	5.686	82	753291	38.31	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 76.62%			
50) 2-Fluorobiphenyl	7.944	172	1445192	39.60	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 79.20%			
75) 2,4,6-Tribromophenol	10.570	330	334768	76.15	ppm	-0.03
Spiked Amount 100.000	Range 32 - 128		Recovery = 76.15%			
88) Terphenyl-d14	15.330	244	1536673	38.94	ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 77.88%			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.884	42	274633	30.71	ppm	95
5) Pyridine	2.873	79	316473	17.20	ppm	99
9) Aniline	4.884	93	773662	34.02	ppm	89
11) bis(2-Chloroethyl)ether	4.927	93	708300	36.49	ppm	95
13) Phenol	4.927	94	385156	17.90	ppm #	71
14) 2-Chlorophenol	5.018	128	609211	36.18	ppm	96
15) 1,3-Dichlorobenzene	5.109	146	690162	33.46	ppm	98
16) 1,4-Dichlorobenzene	5.173	146	668973	34.70	ppm	99
17) 1,2-Dichlorobenzene	5.317	146	648657	35.97	ppm	98
18) Benzyl alcohol	5.301	108	403628	34.97	ppm	93
19) bis(2-chloroisopropyl)...	5.408	45	1349995	37.63	ppm	98
20) 2-Methylphenol	5.440	108	530981	29.75	ppm	99
22) Hexachloroethane	5.638	117	257878	33.73	ppm	99
23) N-Nitroso-di-n-propyla...	5.547	70	566245	44.86	ppm	76
24) 3&4-Methylphenol	5.579	108	985951	64.86	ppm #	53
27) Nitrobenzene	5.708	77	720712	38.60	ppm	97
28) Isophorone	5.948	82	1504322	39.11	ppm	99
29) 2-Nitrophenol	6.034	139	330303	37.20	ppm	95
30) 2,4-Dimethylphenol	6.098	107	465986	27.38	ppm	96
31) bis(2-Chloroethoxy)met...	6.168	93	863624	40.70	ppm	100
32) Benzoic Acid	6.237	105	88739	20.73	ppm	87
33) 2,4-Dichlorophenol	6.339	162	547993	41.15	ppm	99
34) 1,2,4-Trichlorobenzene	6.398	180	530231	35.27	ppm	99
35) Naphthalene	6.489	128	1672976	38.07	ppm	99
36) 4-Chloroaniline	6.548	127	536947	29.67	ppm	95
39) Hexachlorobutadiene	6.644	225	328150	35.48	ppm	100
42) 4-Chloro-3-methylphenol	7.221	107	612626	44.04	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08480.D
Acq On : 3 Feb 2010 6:46 pm
Operator : garyj
Sample : op13976-bs
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 19:09:49 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

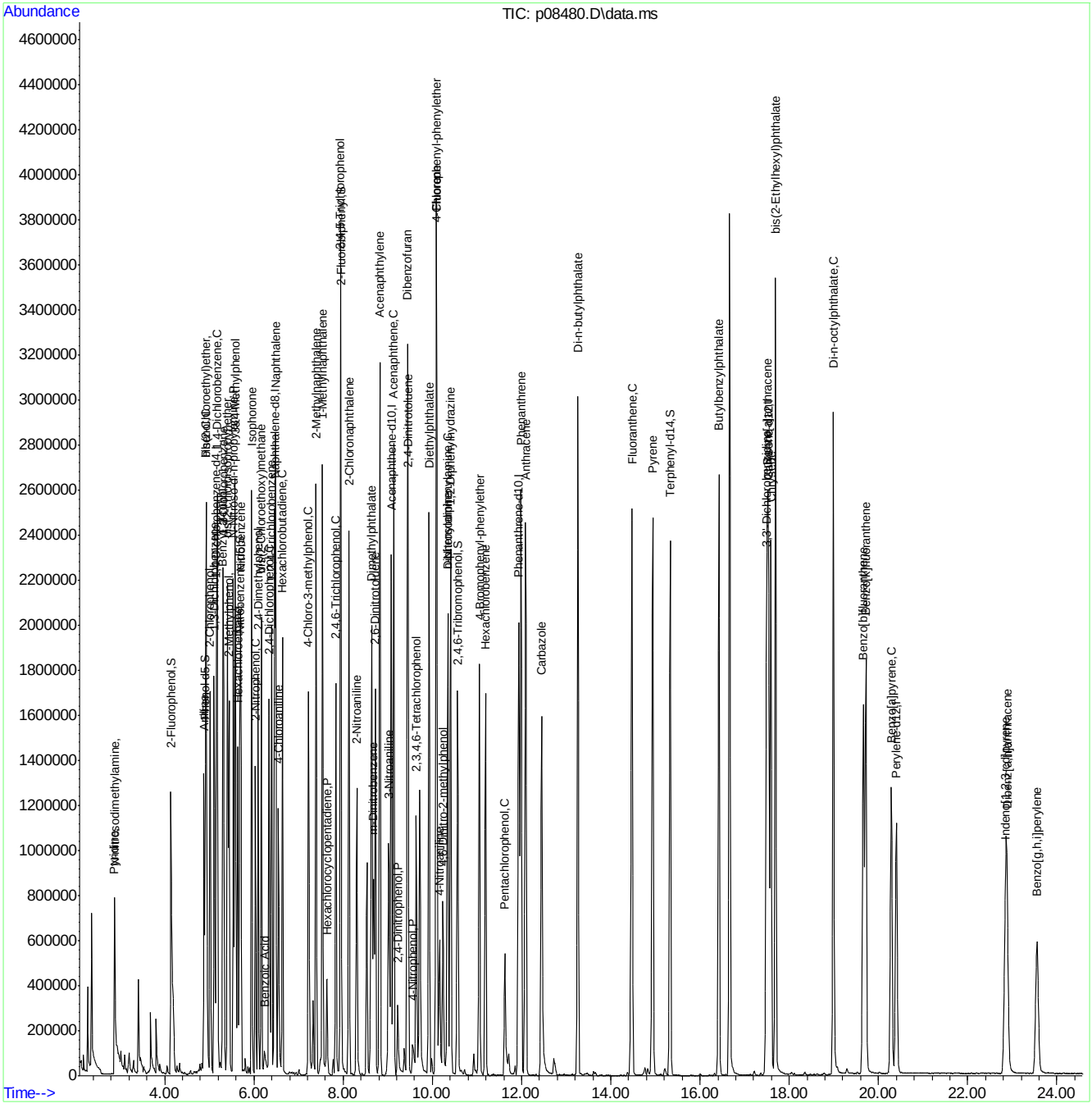
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	2-Methylnaphthalene	7.393	142	1192988	39.97	ppm		97
44)	1-Methylnaphthalene	7.537	142	1179311	40.40	ppm		98
47)	Hexachlorocyclopentadiene	7.639	237	90635	26.25	ppm	#	94
48)	2,4,6-Trichlorophenol	7.837	196	405817	40.72	ppm		99
49)	2,4,5-Trichlorophenol	7.938	196	352310	39.01	ppm		99
52)	2-Chloronaphthalene	8.131	162	1208117	32.21	ppm		99
53)	2-Nitroaniline	8.307	65	439585	39.03	ppm		97
54)	Acenaphthylene	8.826	152	2019632	41.90	ppm		99
55)	Dimethylphthalate	8.639	163	1659794	41.01	ppm		100
56)	m-Dinitrobenzene	8.682	168	245528	40.34	ppm	#	77
57)	2,6-Dinitrotoluene	8.724	165	380255	42.06	ppm		96
58)	Acenaphthene	9.136	153	1270164	40.90	ppm		100
59)	3-Nitroaniline	9.024	138	300130	35.28	ppm		100
60)	2,4-Dinitrophenol	9.227	184	104246	29.72	ppm		96
61)	Dibenzofuran	9.447	168	1662725	42.07	ppm		97
63)	2,4-Dinitrotoluene	9.457	165	444231	40.31	ppm		85
64)	4-Nitrophenol	9.564	109	39709	11.67	ppm	#	79
65)	2,3,4,6-Tetrachlorophenol	9.639	232	283070	42.12	ppm		99
66)	Fluorene	10.088	166	1413580	45.20	ppm		98
67)	4-Chlorophenyl-phenyle...	10.099	204	680145	43.09	ppm		99
68)	Diethylphthalate	9.928	149	1683837	43.35	ppm		99
69)	4-Nitroaniline	10.163	138	302217m	37.01	ppm		
71)	4,6-Dinitro-2-methylph...	10.243	198	215722	34.19	ppm		98
72)	n-Nitrosodiphenylamine	10.345	169	1112848	34.52	ppm		100
73)	1,2-Diphenylhydrazine	10.409	77	1717507	41.37	ppm		98
74)	Diphenylamine	10.345	169	1112848	34.52	ppm		100
76)	4-Bromophenyl-phenylether	11.056	248	428402	42.59	ppm		99
77)	Hexachlorobenzene	11.195	284	441023	44.31	ppm		99
79)	Pentachlorophenol	11.623	266	151321	43.41	ppm		98
80)	Phenanthrene	11.987	178	2116298	46.92	ppm		100
81)	Anthracene	12.094	178	2106067	43.39	ppm		100
82)	Carbazole	12.452	167	1779927	40.64	ppm		100
83)	Di-n-butylphthalate	13.265	149	3031169	49.08	ppm		99
84)	Fluoranthene	14.474	202	2454337	49.07	ppm		99
87)	Pyrene	14.940	202	2491219	38.66	ppm		99
89)	Butylbenzylphthalate	16.421	149	1326828	42.17	ppm		100
90)	3,3'-Dichlorobenzidine	17.491	252	419578	33.56	ppm		99
91)	Benzo[a]anthracene	17.507	228	2017641	42.98	ppm		99
92)	Chrysene	17.592	228	1933615	43.52	ppm		100
93)	bis(2-Ethylhexyl)phtha...	17.694	149	1795720	42.95	ppm		100
95)	Di-n-octylphthalate	18.988	149	2729123	40.04	ppm		98
96)	Benzo[b]fluoranthene	19.662	252	1732351	43.36	ppm		96
97)	Benzo[k]fluoranthene	19.716	252	1594896	44.89	ppm		98
98)	Benzo[a]pyrene	20.288	252	1328742	39.82	ppm		97
99)	Indeno[1,2,3-cd]pyrene	22.845	276	1181139	44.50	ppm		91
100)	Dibenz[a,h]anthracene	22.882	278	1003577	45.01	ppm		96
101)	Benzo[g,h,i]perylene	23.556	276	951913	44.48	ppm		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08480.D
Acq On : 3 Feb 2010 6:46 pm
Operator : garyj
Sample : op13976-bs
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 19:09:49 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08480.D
Acq On    :  3 Feb 2010   6:46 pm
Operator  : garyj
Sample    : op13976-bs
Misc      : op13976,Ep403,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Feb 03 19:09:49 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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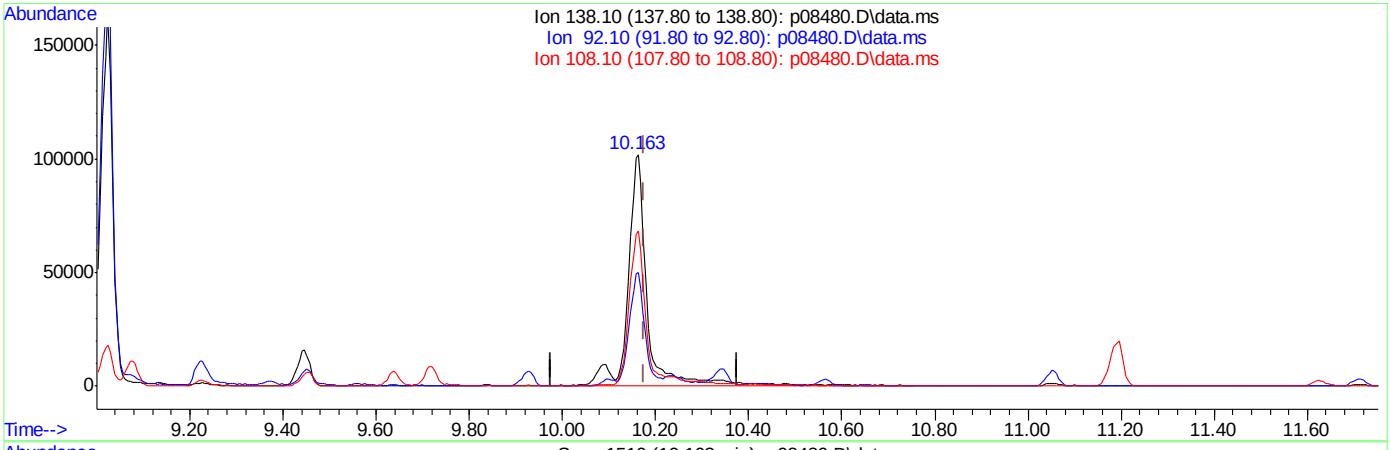
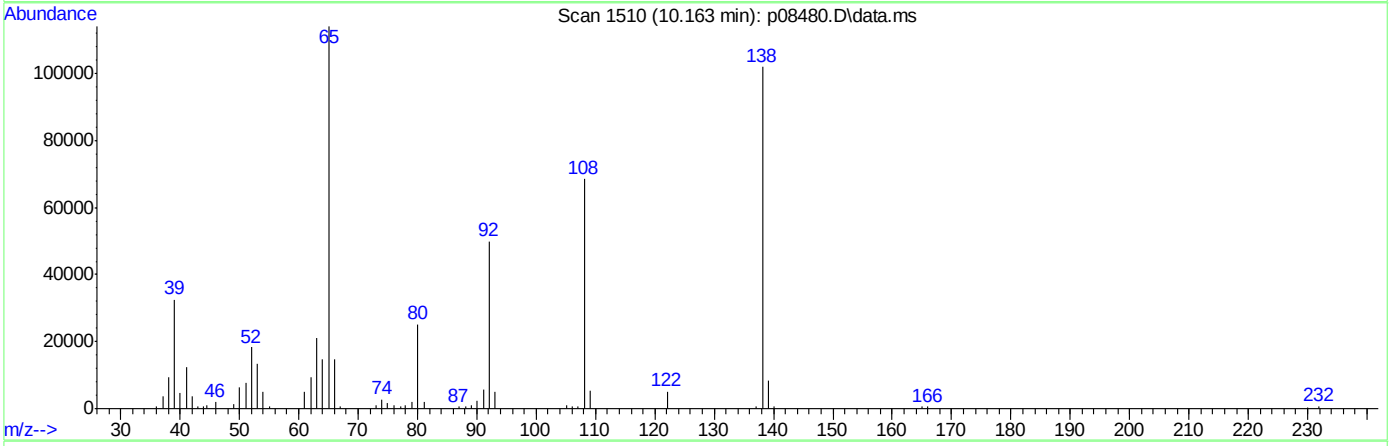




TIC: p08480.D\data.ms

(69) 4-Nitroaniline

10.163min (-0.013) 37.01ppm m

response 302217

Ion	Exp%	Act%
138.10	100	100
92.10	50.10	34.58
108.10	73.10	56.12
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08481.D
Acq On : 3 Feb 2010 7:17 pm
Operator : garyj
Sample : op13976-bsd
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 19:41:26 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	474795	40.00	ppm	0.01
25) Naphthalene-d8	6.462	136	1740796	40.00	ppm	0.00
46) Acenaphthene-d10	9.078	164	1147889	40.00	ppm	0.00
70) Phenanthrene-d10	11.939	188	1949331	40.00	ppm	0.00
85) Chrysene-d12	17.539	240	1598757	40.00	ppm	0.01
94) Perylene-d12	20.401	264	1120688	40.00	ppm	0.01
System Monitoring Compounds						
10) 2-Fluorophenol	4.141	112	871976	49.76	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 49.76%			
12) Phenol-d5	4.911	99	727628	35.55	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 35.55%			
26) Nitrobenzene-d5	5.687	82	843490	38.58	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 77.16%			
50) 2-Fluorobiphenyl	7.944	172	1620218	39.32	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 78.64%			
75) 2,4,6-Tribromophenol	10.570	330	389269	76.98	ppm	-0.03
Spiked Amount 100.000	Range 32 - 128		Recovery = 76.98%			
88) Terphenyl-d14	15.330	244	1707144	41.35	ppm	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 82.70%			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.889	42	285639	29.75	ppm	93
5) Pyridine	2.878	79	341470	17.29	ppm	99
9) Aniline	4.884	93	870526	35.66	ppm	90
11) bis(2-Chloroethyl)ether	4.927	93	786980	37.77	ppm	96
13) Phenol	4.927	94	427348	18.51	ppm #	71
14) 2-Chlorophenol	5.013	128	668537	36.99	ppm	96
15) 1,3-Dichlorobenzene	5.109	146	745766	33.69	ppm	98
16) 1,4-Dichlorobenzene	5.173	146	724876	35.03	ppm	99
17) 1,2-Dichlorobenzene	5.317	146	700098	36.17	ppm	98
18) Benzyl alcohol	5.301	108	451674	36.46	ppm	94
19) bis(2-chloroisopropyl)...	5.408	45	1477782	38.38	ppm	98
20) 2-Methylphenol	5.440	108	595846	31.10	ppm	99
22) Hexachloroethane	5.638	117	281152	34.26	ppm	99
23) N-Nitroso-di-n-propyla...	5.547	70	628427	46.39	ppm	76
24) 3&4-Methylphenol	5.580	108	1094010	67.39	ppm #	53
27) Nitrobenzene	5.708	77	804750	38.75	ppm	97
28) Isophorone	5.954	82	1693323	39.59	ppm	99
29) 2-Nitrophenol	6.034	139	381526	38.63	ppm	96
30) 2,4-Dimethylphenol	6.098	107	515935	27.26	ppm	97
31) bis(2-Chloroethoxy)met...	6.168	93	956199	40.52	ppm	100
32) Benzoic Acid	6.243	105	117280	22.58	ppm	89
33) 2,4-Dichlorophenol	6.334	162	627108	42.35	ppm	99
34) 1,2,4-Trichlorobenzene	6.398	180	600786	35.93	ppm	99
35) Naphthalene	6.489	128	1860796	38.08	ppm	99
36) 4-Chloroaniline	6.548	127	626954	31.15	ppm	95
39) Hexachlorobutadiene	6.644	225	364142	35.40	ppm	99
42) 4-Chloro-3-methylphenol	7.222	107	701390	45.34	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08481.D
Acq On : 3 Feb 2010 7:17 pm
Operator : garyj
Sample : op13976-bsd
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 19:41:26 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

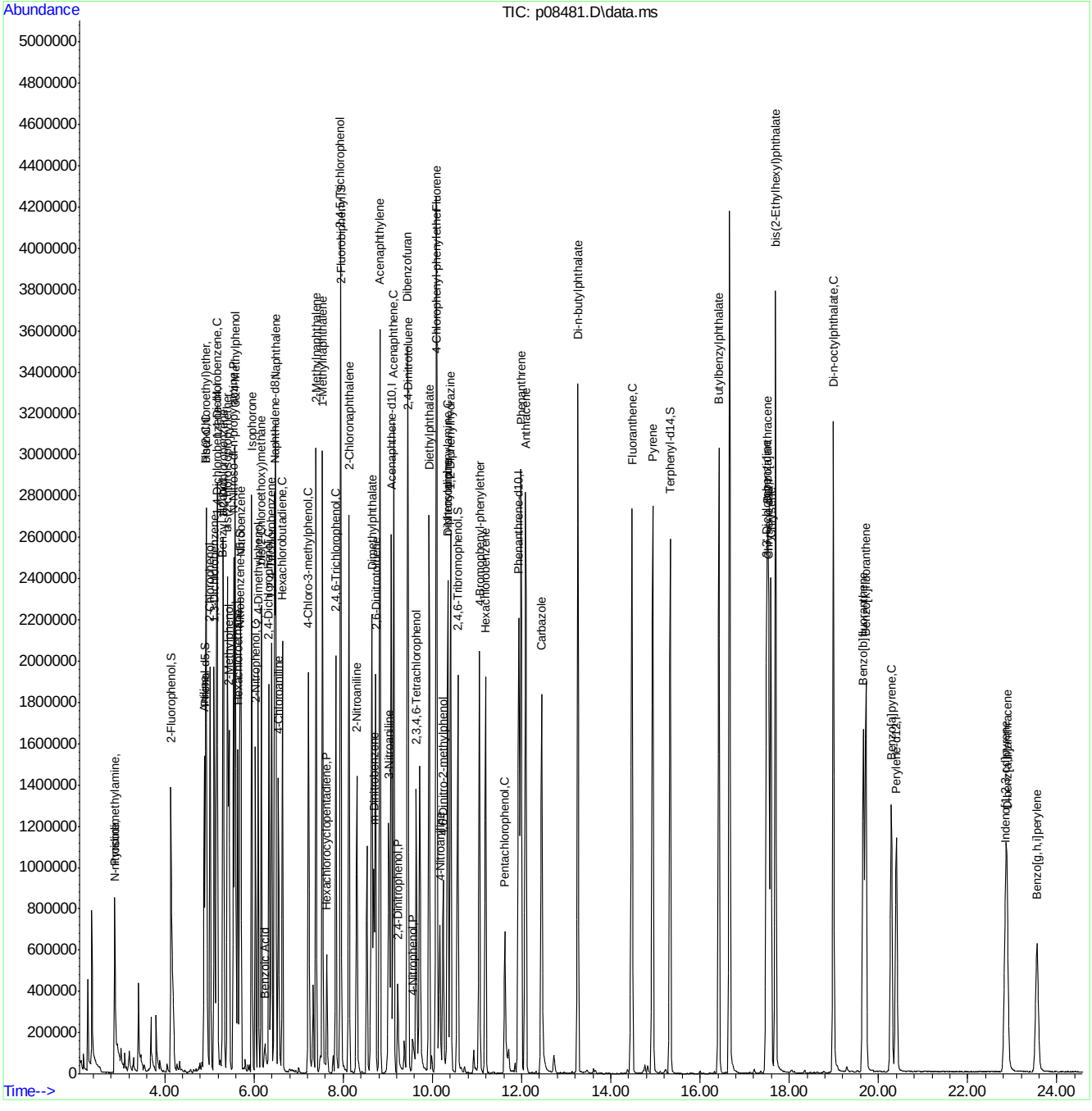
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	2-Methylnaphthalene	7.393	142	1337624	40.29	ppm		97
44)	1-Methylnaphthalene	7.537	142	1320700	40.68	ppm		98
47)	Hexachlorocyclopentadiene	7.633	237	123534	30.24	ppm	#	94
48)	2,4,6-Trichlorophenol	7.837	196	467266	41.57	ppm		99
49)	2,4,5-Trichlorophenol	7.938	196	424522	41.68	ppm		99
52)	2-Chloronaphthalene	8.131	162	1371941	32.43	ppm		99
53)	2-Nitroaniline	8.307	65	507942	39.99	ppm		97
54)	Acenaphthylene	8.826	152	2265364	41.67	ppm		99
55)	Dimethylphthalate	8.644	163	1880207	41.18	ppm		100
56)	m-Dinitrobenzene	8.687	168	286411	41.72	ppm	#	73
57)	2,6-Dinitrotoluene	8.730	165	428967	42.06	ppm		98
58)	Acenaphthene	9.136	153	1434864	40.96	ppm		100
59)	3-Nitroaniline	9.024	138	356863	37.20	ppm		99
60)	2,4-Dinitrophenol	9.222	184	140632	34.09	ppm		97
61)	Dibenzofuran	9.447	168	1881126	42.20	ppm		98
63)	2,4-Dinitrotoluene	9.457	165	513815	41.33	ppm		86
64)	4-Nitrophenol	9.564	109	49407	12.79	ppm	#	82
65)	2,3,4,6-Tetrachlorophenol	9.639	232	338735	44.48	ppm		99
66)	Fluorene	10.088	166	1597362	45.28	ppm		98
67)	4-Chlorophenyl-phenyle...	10.105	204	767715	43.12	ppm		99
68)	Diethylphthalate	9.928	149	1903590	43.45	ppm		99
69)	4-Nitroaniline	10.169	138	347129m	37.69	ppm		
71)	4,6-Dinitro-2-methylph...	10.244	198	267199	36.66	ppm		98
72)	n-Nitrosodiphenylamine	10.345	169	1265665	34.13	ppm		100
73)	1,2-Diphenylhydrazine	10.409	77	1962099	41.09	ppm		98
74)	Diphenylamine	10.345	169	1265665	34.13	ppm		100
76)	4-Bromophenyl-phenylether	11.057	248	487964	42.17	ppm		99
77)	Hexachlorobenzene	11.196	284	502111	43.85	ppm		99
79)	Pentachlorophenol	11.624	266	192964	47.65	ppm		97
80)	Phenanthrene	11.987	178	2419810	46.64	ppm		99
81)	Anthracene	12.094	178	2400330	42.99	ppm		100
82)	Carbazole	12.447	167	2016839	40.03	ppm		100
83)	Di-n-butylphthalate	13.266	149	3415082	47.94	ppm		99
84)	Fluoranthene	14.474	202	2743225	47.68	ppm		99
87)	Pyrene	14.940	202	2755619	40.88	ppm		99
89)	Butylbenzylphthalate	16.421	149	1472903	44.74	ppm		99
90)	3,3'-Dichlorobenzidine	17.491	252	441557	33.76	ppm		99
91)	Benzo[a]anthracene	17.507	228	2115414	43.08	ppm		99
92)	Chrysene	17.593	228	2018548	43.43	ppm		100
93)	bis(2-Ethylhexyl)phtha...	17.694	149	1994139	45.59	ppm		100
95)	Di-n-octylphthalate	18.994	149	2936664	41.48	ppm		99
96)	Benzo[b]fluoranthene	19.663	252	1787159	43.07	ppm		98
97)	Benzo[k]fluoranthene	19.716	252	1648950	44.69	ppm		98
98)	Benzo[a]pyrene	20.288	252	1386772	40.01	ppm		97
99)	Indeno[1,2,3-cd]pyrene	22.845	276	1261832	45.77	ppm		91
100)	Dibenz[a,h]anthracene	22.882	278	1072959	46.33	ppm		97
101)	Benzo[g,h,i]perylene	23.556	276	1017998	45.79	ppm		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08481.D
Acq On : 3 Feb 2010 7:17 pm
Operator : garyj
Sample : op13976-bsd
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

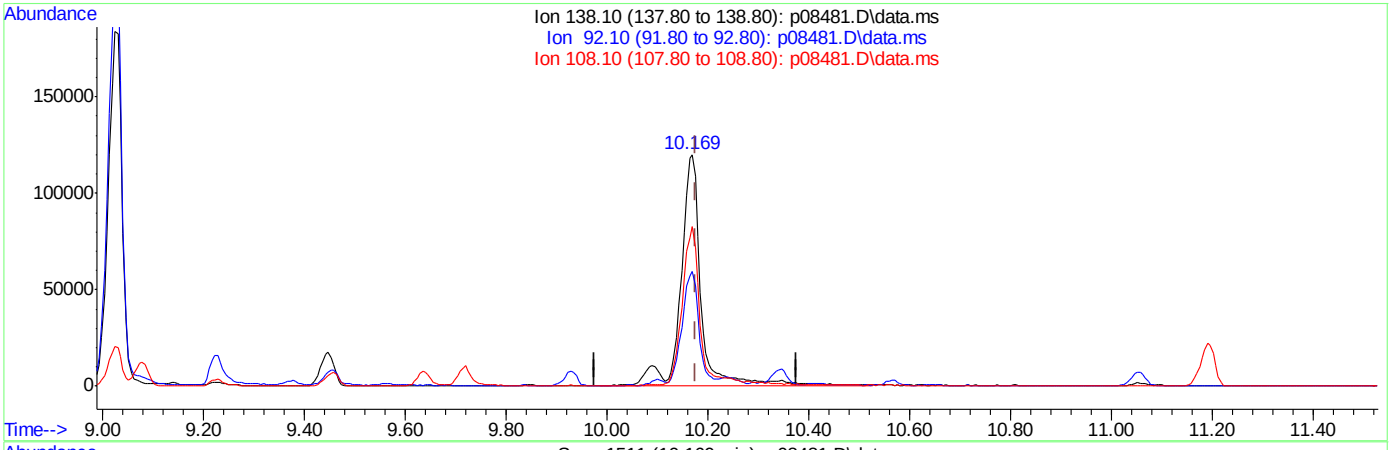
Quant Time: Feb 03 19:41:26 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

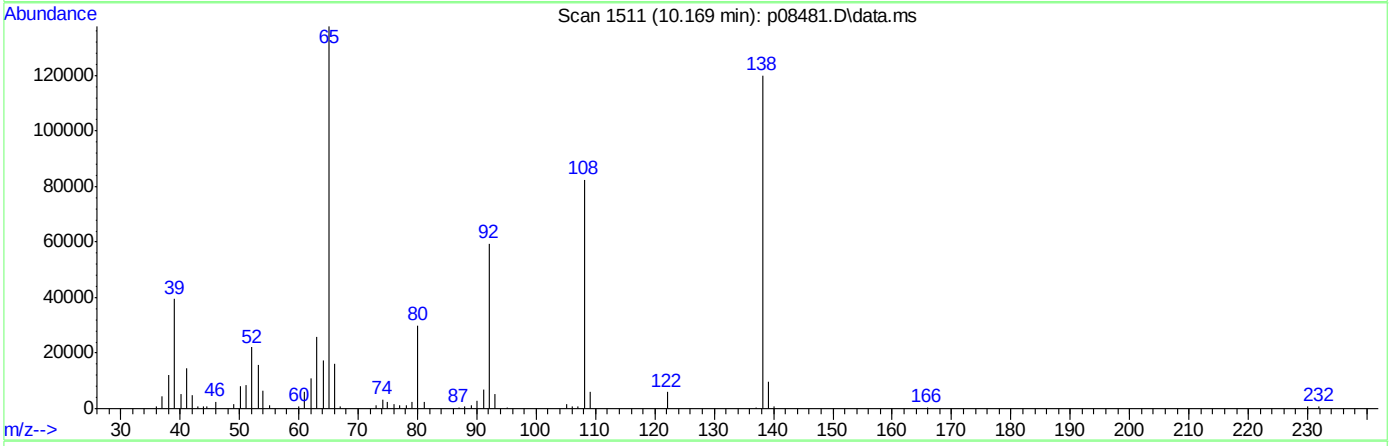


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08481.D
Acq On : 3 Feb 2010 7:17 pm
Operator : garyj
Sample : op13976-bsd
Misc : op13976,Ep403,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 19:41:26 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08481.D\data.ms

(69) 4-Nitroaniline

10.169min (-0.007) 37.69ppm m

response 347129

Ion	Exp%	Act%
138.10	100	100
92.10	50.10	36.80
108.10	73.10	61.55
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On : 3 Feb 2010 8:19 pm
Operator : garyj
Sample : op13984-bs
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	484295	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1752862	40.00	ppm	0.00
46) Acenaphthene-d10	9.083	164	1147986	40.00	ppm	0.01
70) Phenanthrene-d10	11.939	188	1945608	40.00	ppm	0.00
85) Chrysene-d12	17.544	240	1671157	40.00	ppm	0.02
94) Perylene-d12	20.406	264	1193690	40.00	ppm	0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.130	112	1672832	93.59	ppm	-0.01
Spiked Amount 100.000	Range 26 - 124		Recovery = 93.59%			
12) Phenol-d5	4.906	99	1961367	93.93	ppm	0.00
Spiked Amount 100.000	Range 19 - 106		Recovery = 93.93%			
26) Nitrobenzene-d5	5.692	82	1012327	45.98	ppm	-0.01
Spiked Amount 50.000	Range 18 - 104		Recovery = 91.96%			
50) 2-Fluorobiphenyl	7.949	172	1876082	46.63	ppm	0.00
Spiked Amount 50.000	Range 21 - 114		Recovery = 93.26%			
75) 2,4,6-Tribromophenol	10.575	330	445443	88.26	ppm	-0.03
Spiked Amount 100.000	Range 18 - 129		Recovery = 88.26%			
88) Terphenyl-d14	15.335	244	1908589	44.23	ppm	-0.02
Spiked Amount 50.000	Range 24 - 149		Recovery = 88.46%			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.894	42	476895	48.70	ppm	95
5) Pyridine	2.878	79	667081m	33.11	ppm	
9) Aniline	4.884	93	801455	32.19	ppm	83
11) bis(2-Chloroethyl)ether	4.927	93	907912	42.72	ppm	92
13) Phenol	4.916	94	1072110	45.52	ppm	92
14) 2-Chlorophenol	5.018	128	797970	43.28	ppm	97
15) 1,3-Dichlorobenzene	5.114	146	955874	42.33	ppm	98
16) 1,4-Dichlorobenzene	5.178	146	912728	43.24	ppm	99
17) 1,2-Dichlorobenzene	5.323	146	870814	44.11	ppm	98
18) Benzyl alcohol	5.307	108	540496	42.78	ppm	94
19) bis(2-chloroisopropyl)...	5.408	45	1692987	43.11	ppm	80
20) 2-Methylphenol	5.435	108	785359	40.18	ppm	89
22) Hexachloroethane	5.638	117	367507	43.91	ppm	99
23) N-Nitroso-di-n-propyla...	5.553	70	687019	49.72	ppm	77
24) 3&4-Methylphenol	5.580	108	1472080	93.27	ppm #	53
27) Nitrobenzene	5.713	77	927214	44.34	ppm	98
28) Isophorone	5.959	82	1836913	42.65	ppm	99
29) 2-Nitrophenol	6.040	139	438910	44.14	ppm	96
30) 2,4-Dimethylphenol	6.098	107	750539	39.39	ppm	97
31) bis(2-Chloroethoxy)met...	6.168	93	1043723	43.93	ppm	100
32) Benzoic Acid	6.280	105	352793	46.16	ppm	94
33) 2,4-Dichlorophenol	6.339	162	699068	46.88	ppm	99
34) 1,2,4-Trichlorobenzene	6.398	180	736865	43.77	ppm	99
35) Naphthalene	6.494	128	2186505	44.44	ppm	100
36) 4-Chloroaniline	6.553	127	612263	30.21	ppm	94
39) Hexachlorobutadiene	6.644	225	467735	45.16	ppm	99
42) 4-Chloro-3-methylphenol	7.227	107	775782	49.80	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On : 3 Feb 2010 8:19 pm
Operator : garyj
Sample : op13984-bs
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	2-Methylnaphthalene	7.393	142	1531184	45.81	ppm		98
44)	1-Methylnaphthalene	7.542	142	1507216	46.11	ppm		99
47)	Hexachlorocyclopentadiene	7.639	237	187314	42.00	ppm		100
48)	2,4,6-Trichlorophenol	7.842	196	507208	45.12	ppm		99
49)	2,4,5-Trichlorophenol	7.938	196	448482	44.03	ppm		99
52)	2-Chloronaphthalene	8.136	162	1549722	36.63	ppm		99
53)	2-Nitroaniline	8.313	65	543844	42.81	ppm		97
54)	Acenaphthylene	8.831	152	2498551	45.96	ppm		99
55)	Dimethylphthalate	8.644	163	1983825	43.45	ppm		100
56)	m-Dinitrobenzene	8.692	168	307702	44.81	ppm	#	73
57)	2,6-Dinitrotoluene	8.735	165	460601	45.16	ppm		89
58)	Acenaphthene	9.142	153	1564061	44.64	ppm		100
59)	3-Nitroaniline	9.029	138	350150	36.49	ppm		98
60)	2,4-Dinitrophenol	9.227	184	152308	36.29	ppm		96
61)	Dibenzofuran	9.452	168	2049212	45.97	ppm		98
63)	2,4-Dinitrotoluene	9.463	165	545980	43.92	ppm		86
64)	4-Nitrophenol	9.543	109	161657m	39.93	ppm		
65)	2,3,4,6-Tetrachlorophenol	9.644	232	360629	47.13	ppm		99
66)	Fluorene	10.094	166	1721787	48.80	ppm		98
67)	4-Chlorophenyl-phenyle...	10.104	204	823582	46.26	ppm		99
68)	Diethylphthalate	9.939	149	1999186	45.63	ppm		99
69)	4-Nitroaniline	10.174	138	353941m	38.42	ppm		
71)	4,6-Dinitro-2-methylph...	10.249	198	286419	39.25	ppm		98
72)	n-Nitrosodiphenylamine	10.351	169	1370322	37.03	ppm		99
73)	1,2-Diphenylhydrazine	10.415	77	2095650	43.97	ppm		98
74)	Diphenylamine	10.351	169	1370322	37.03	ppm		99
76)	4-Bromophenyl-phenylether	11.062	248	520637	45.08	ppm		99
77)	Hexachlorobenzene	11.201	284	540985	47.34	ppm		99
79)	Pentachlorophenol	11.629	266	204487	50.32	ppm		100
80)	Phenanthrene	11.993	178	2584283	49.90	ppm		100
81)	Anthracene	12.100	178	2548101	45.72	ppm		100
82)	Carbazole	12.453	167	2095153	41.67	ppm		99
83)	Di-n-butylphthalate	13.271	149	3562435	50.39	ppm		99
84)	Fluoranthene	14.480	202	2912539	50.72	ppm		99
87)	Pyrene	14.945	202	2949708	41.86	ppm		99
89)	Butylbenzylphthalate	16.427	149	1545981	44.93	ppm		100
90)	3,3'-Dichlorobenzidine	17.496	252	509859	37.29	ppm		99
91)	Benzo[a]anthracene	17.512	228	2365277	46.08	ppm		99
92)	Chrysene	17.598	228	2252940	46.37	ppm		100
93)	bis(2-Ethylhexyl)phtha...	17.700	149	2077608	45.44	ppm		99
95)	Di-n-octylphthalate	18.994	149	3182314	42.20	ppm		99
96)	Benzo[b]fluoranthene	19.668	252	2043711	46.24	ppm		97
97)	Benzo[k]fluoranthene	19.727	252	1909466	48.58	ppm		98
98)	Benzo[a]pyrene	20.299	252	1600447	43.35	ppm		97
99)	Indeno[1,2,3-cd]pyrene	22.861	276	1541229	52.48	ppm		91
100)	Dibenz[a,h]anthracene	22.898	278	1302941	52.82	ppm		97
101)	Benzo[g,h,i]perylene	23.572	276	1245424	52.60	ppm		94

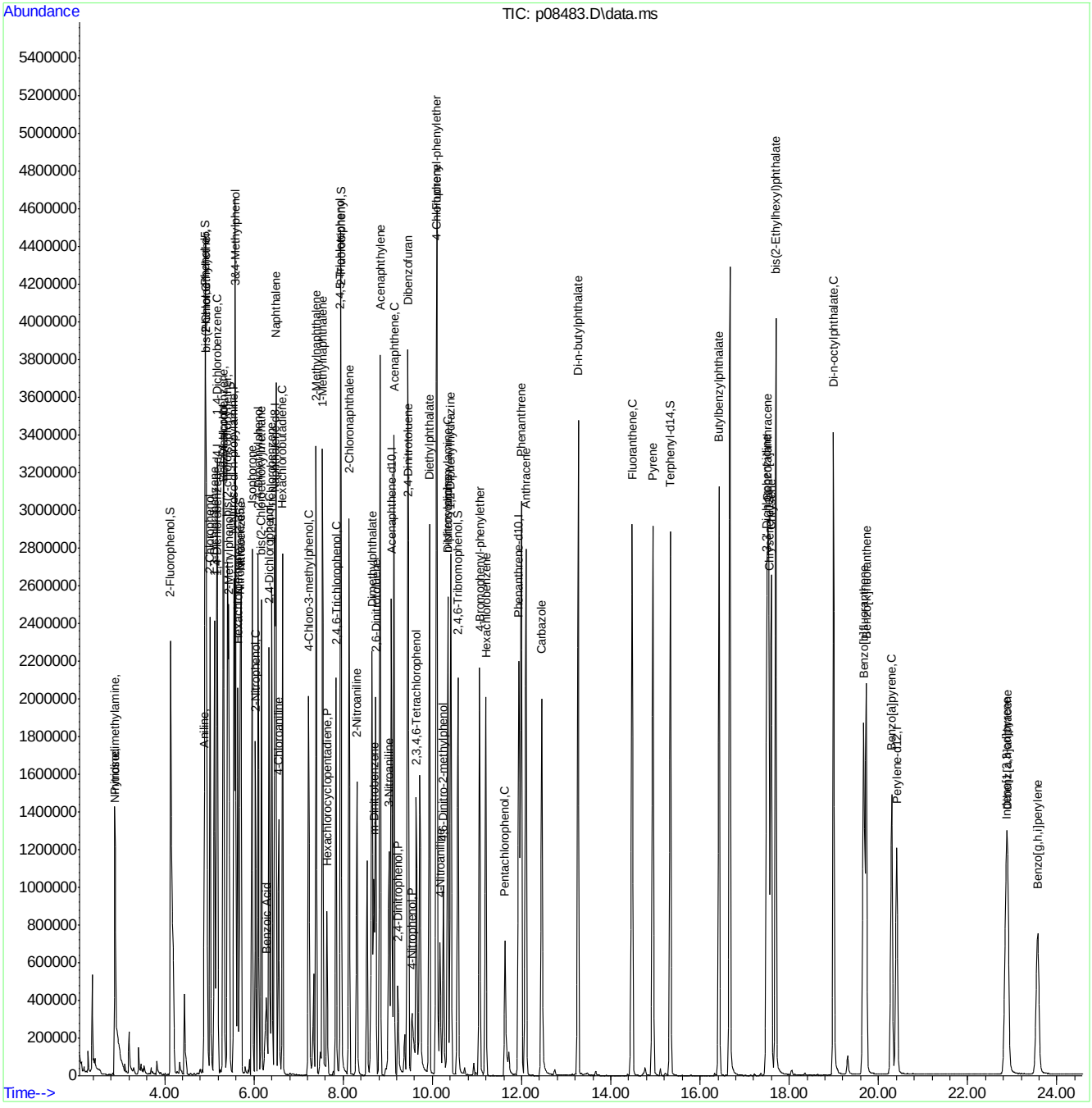
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ep393.m Wed Feb 03 20:43:51 2010 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On : 3 Feb 2010 8:19 pm
Operator : garyj
Sample : op13984-bs
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On    :  3 Feb 2010   8:19 pm
Operator  : garyj
Sample    : op13984-bs
Misc      : op13984,Ep403,30.00,,,1,1,soil
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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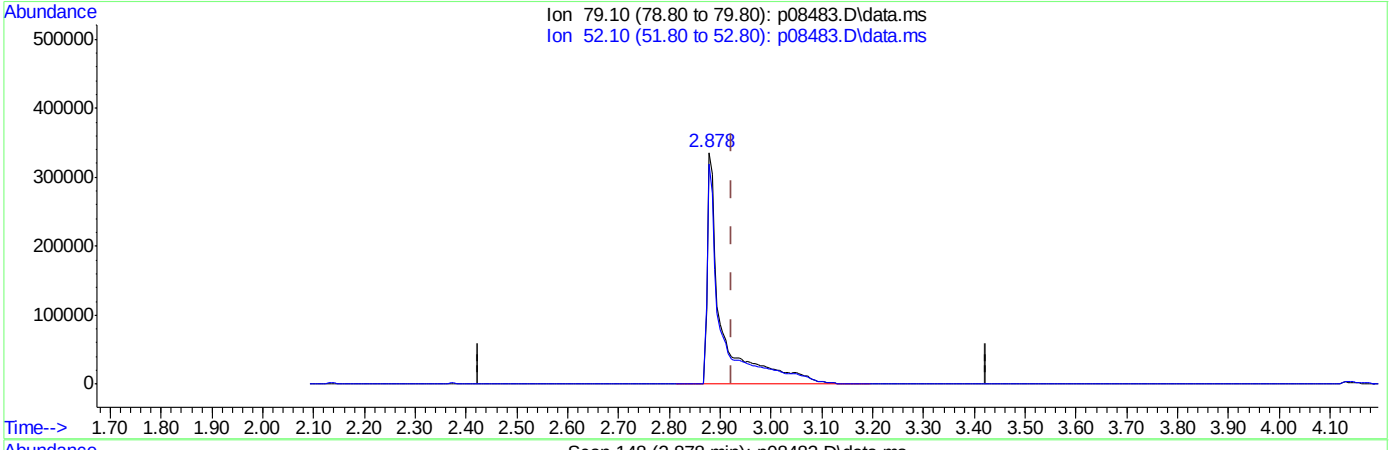

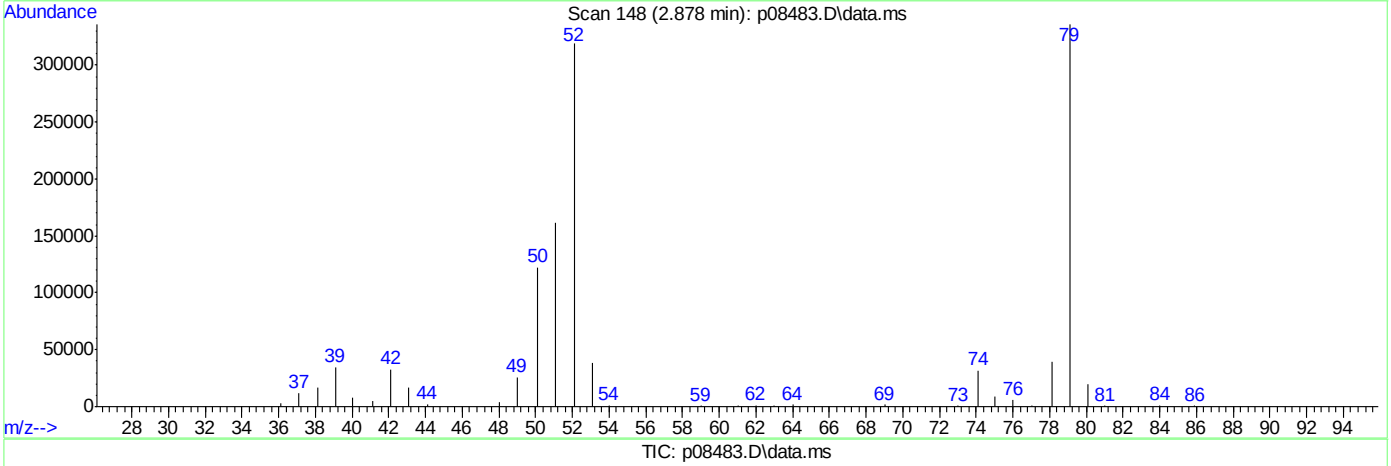

(5) Pyridine ( )

2.878min (-0.045) 33.11ppm m

response 667081

Ion	Exp%	Act%
79.10	100	100
52.10	94.10	93.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On    :  3 Feb 2010   8:19 pm
Operator  : garyj
Sample    : op13984-bs
Misc      : op13984,Ep403,30.00,,,1,1,soil
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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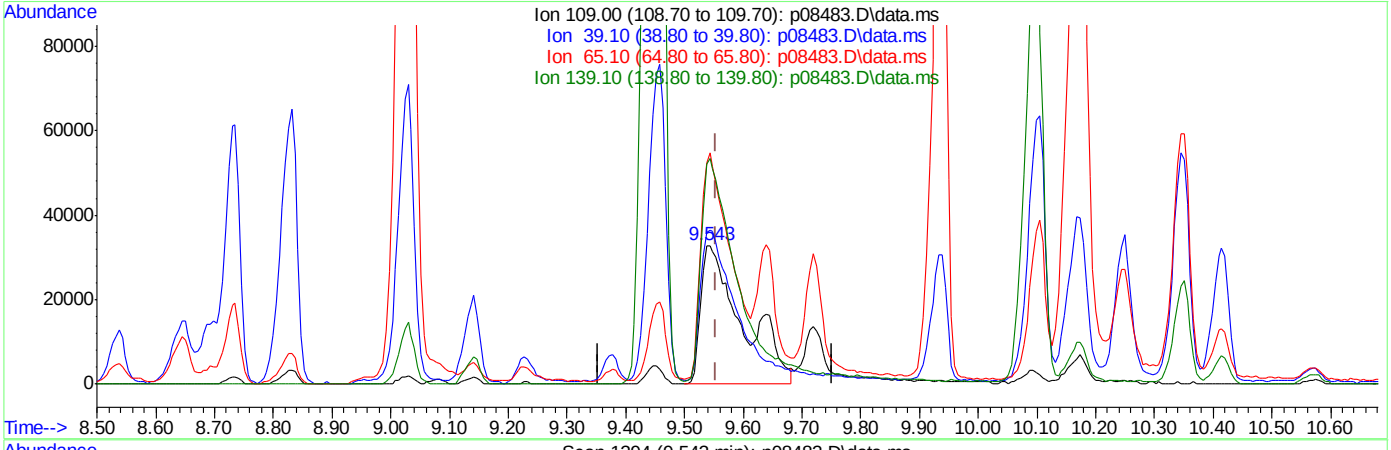
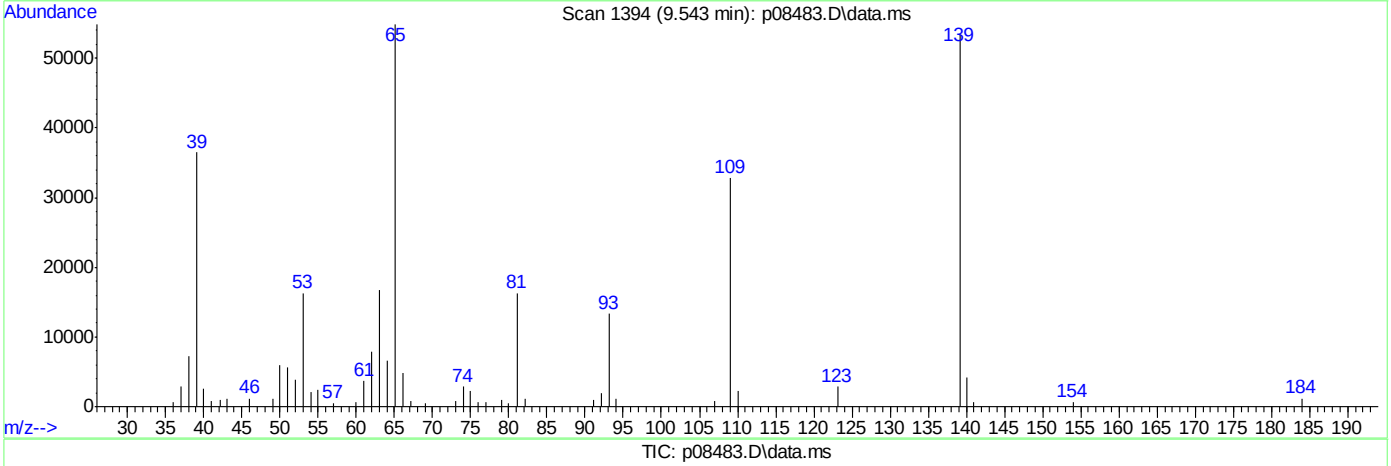




(64) 4-Nitrophenol (P)

9.543min (-0.011) 39.93ppm m

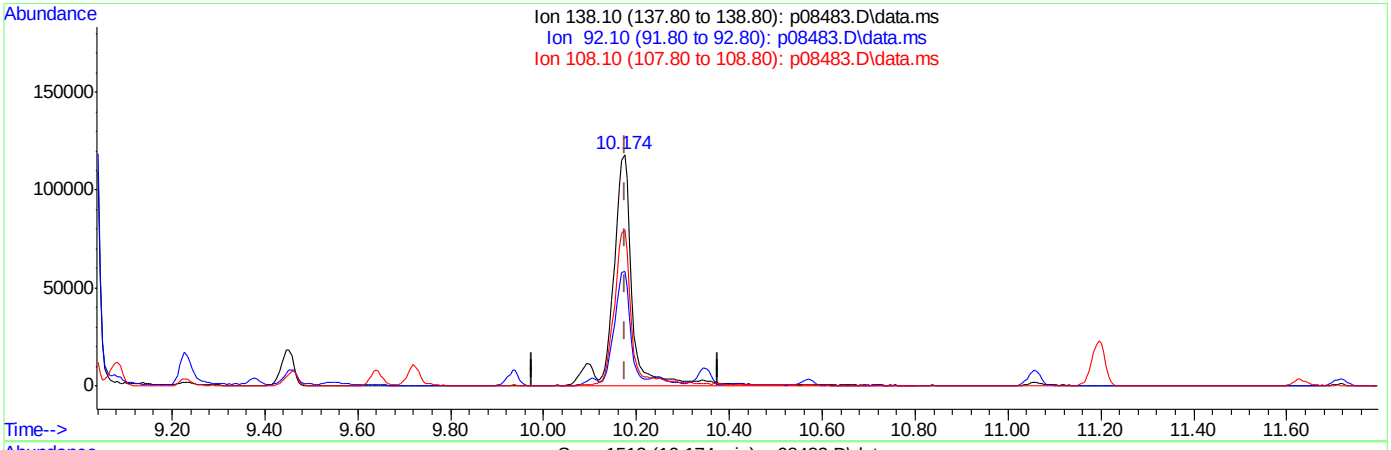
response 161657

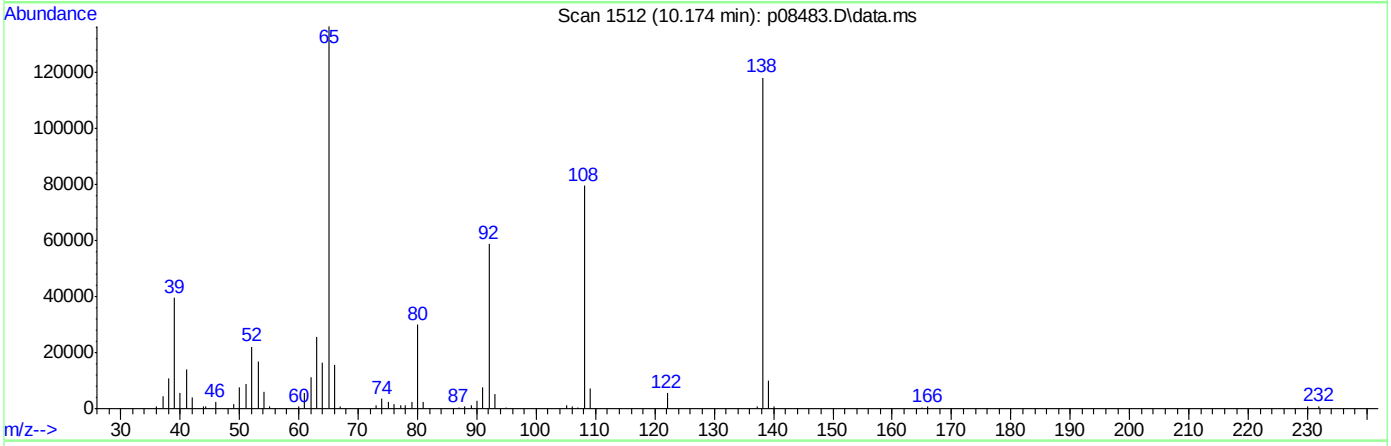
Ion	Exp%	Act%
109.00	100	100
39.10	122.90	95.63
65.10	167.80	116.69#
139.10	150.80	139.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08483.D
Acq On : 3 Feb 2010 8:19 pm
Operator : garyj
Sample : op13984-bs
Misc : op13984,Ep403,30.00,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 20:43:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08483.D\data.ms

(69) 4-Nitroaniline

10.174min (-0.002) 38.42ppm m

response 353941

Ion	Exp%	Act%
138.10	100	100
92.10	50.10	36.43
108.10	73.10	59.50
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Richard Rodriguez
02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36828.D Vial: 11
Acq On : 3 Feb 2010 5:26 pm Operator: sheilac
Sample : op13977-bs Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:50 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:12:05 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6207	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	8124	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	5860	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	10308	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	13007	4.00	ppb	0.00
26) Perylene-d12	17.82	264	3024m	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	6766	3.75	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 75.00%			
10) 2-Fluorobiphenyl	9.63	172	25067	3.04	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 60.80%			
16) 2,4,6-Tribromophenol	11.18	330	6171	13.62	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 136.20%#			
23) Terphenyl-d14	13.49	244	11042	3.79	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 75.80%			

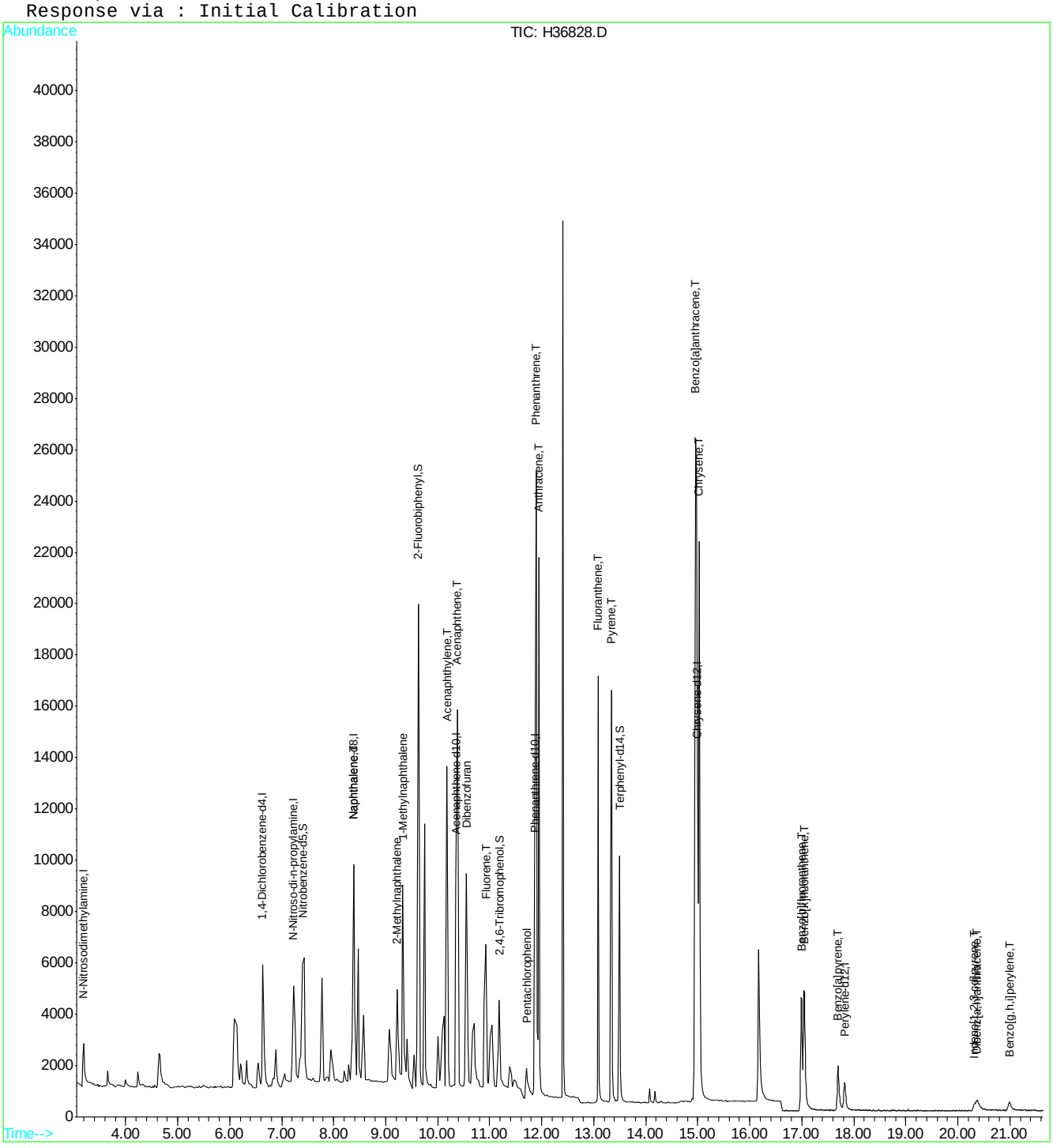
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.19	74	856	2.38	ppb #	41
3) N-Nitroso-di-n-propylamine	7.23	70	2123	4.91	ppb #	1
6) Naphthalene	8.38	128	7477	3.68	ppb	99
7) 2-Methylnaphthalene	9.21	142	4305	3.13	ppb #	93
8) 1-Methylnaphthalene	9.33	142	9671	4.48	ppb #	86
11) Acenaphthylene	10.18	152	13300	3.73	ppb	99
12) Acenaphthene	10.38	153	9832	4.30	ppb	97
13) Dibenzofuran	10.55	168	6935	3.34	ppb	91
14) Fluorene	10.92	166	5823	4.91	ppb	99
17) Pentachlorophenol	11.71	266	4191	3.36	ppb	100
18) Phenanthrene	11.89	178	21344	4.49	ppb	97
19) Anthracene	11.94	178	18187	4.43	ppb	97
20) Fluoranthene	13.08	202	25262	4.72	ppb	99
22) Pyrene	13.34	202	24558	4.71	ppb	100
24) Benzo[a]anthracene	14.95	228	23051m	4.55	ppb	
25) Chrysene	15.02	228	22803	4.52	ppb	99
27) Benzo[b]fluoranthene	16.99	252	9635	4.75	ppb	100
28) Benzo[k]fluoranthene	17.04	252	11615	5.06	ppb	100
29) Benzo[a]pyrene	17.70	252	5285	4.06	ppb	100
30) Indeno[1,2,3-cd]pyrene	20.31	276	1730	4.09	ppb	100
31) Dibenz[a,h]anthracene	20.37	278	1311	4.30	ppb	100
32) Benzo[g,h,i]perylene	21.00	276	1378	4.20	ppb	100

(#) = qualifier out of range (m) = manual integration
H36828.D H20410SP.M Thu Feb 04 12:00:06 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36828.D Vial: 11
Acq On : 3 Feb 2010 5:26 pm Operator: sheilac
Sample : op13977-bs Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:50 2010 Quant Results File: H20310SP.RES

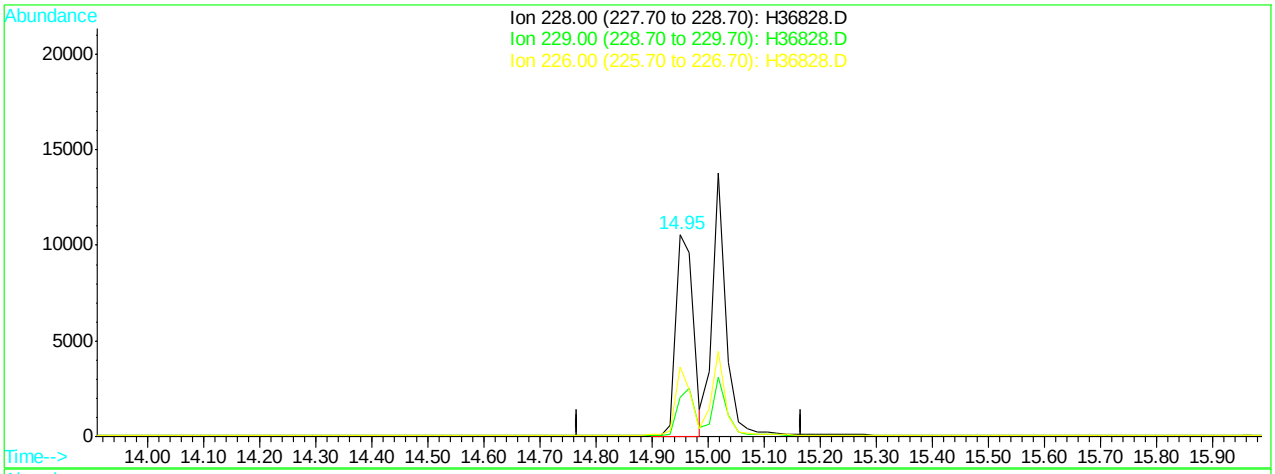
Method : C:\HPCHEM\1\METHODS\H20410SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 11:56:36 2010
Response via : Initial Calibration

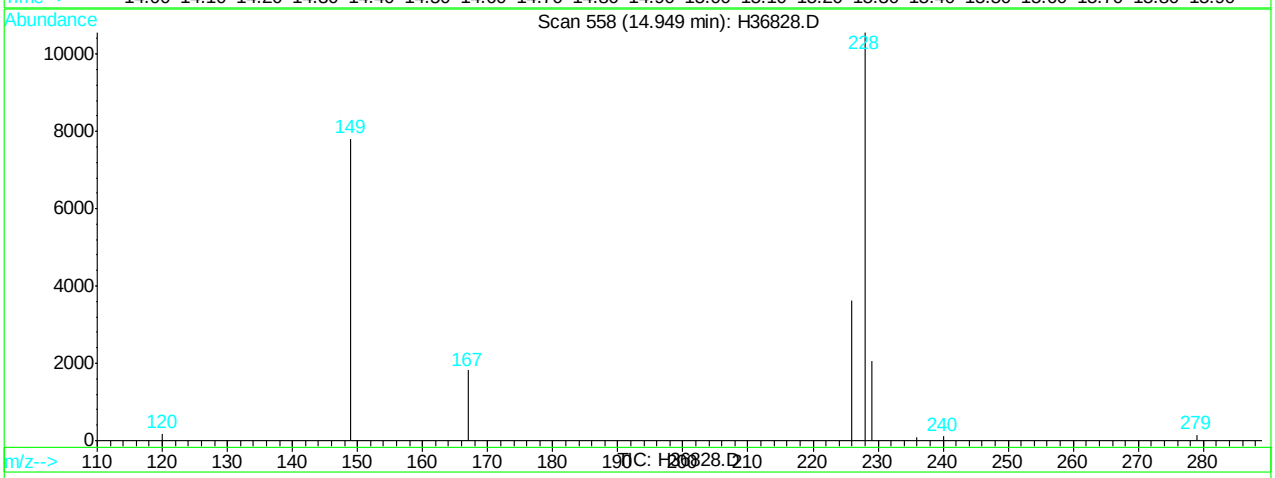


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36828.D Vial: 11
Acq On : 3 Feb 2010 5:26 pm Operator: sheilac
Sample : op13977-bs Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:50 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20410SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 11:56:36 2010
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

14.95min 4.55ppb m

response 23051

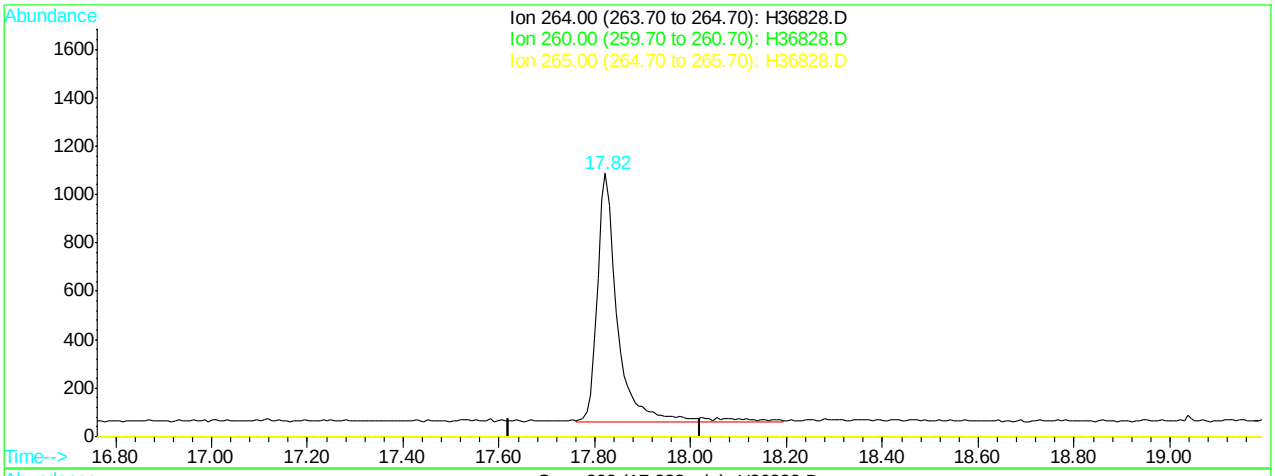
Ion	Exp%	Act%
228.00	100	100
229.00	24.70	19.53
226.00	26.30	34.48#
0.00	0.00	0.00

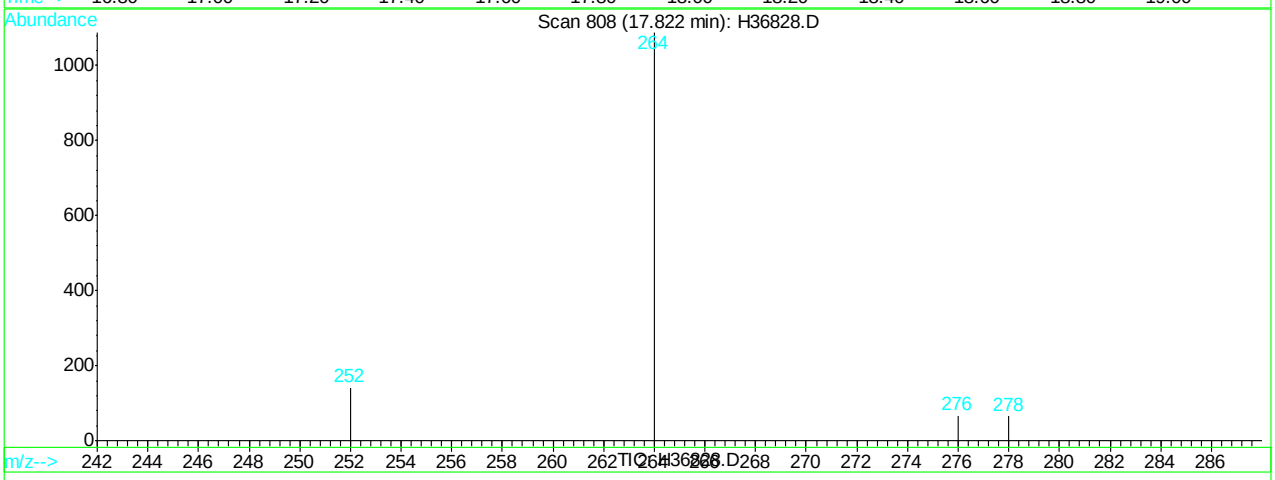
H36828.D H20410SP.M Thu Feb 04 12:00:20 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36828.D Vial: 11
Acq On : 3 Feb 2010 5:26 pm Operator: sheilac
Sample : op13977-bs Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 17:50 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20410SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 11:56:36 2010
Response via : Multiple Level Calibration





(26) Perylene-d12 (I)

17.82min 4.00ppb m

response 3024

Ion	Exp%	Act%
264.00	100	100
260.00	0.00	0.00
265.00	0.00	0.00
0.00	0.00	0.00

H36828.D H20410SP.M Thu Feb 04 12:00:24 2010

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36829.D Vial: 12
Acq On : 3 Feb 2010 5:56 pm Operator: sheilac
Sample : op13977-bsd Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 18:19 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:50:41 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	8240	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	9943	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	8790	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	13677	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	19458	4.00	ppb	0.00
26) Perylene-d12	17.82	264	5464	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	9008	4.13	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 82.60%			
10) 2-Fluorobiphenyl	9.63	172	31129	2.51	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 50.20%			
16) 2,4,6-Tribromophenol	11.18	330	9318	14.82	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 148.20%#			
23) Terphenyl-d14	13.50	244	15381	3.52	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 70.40%			

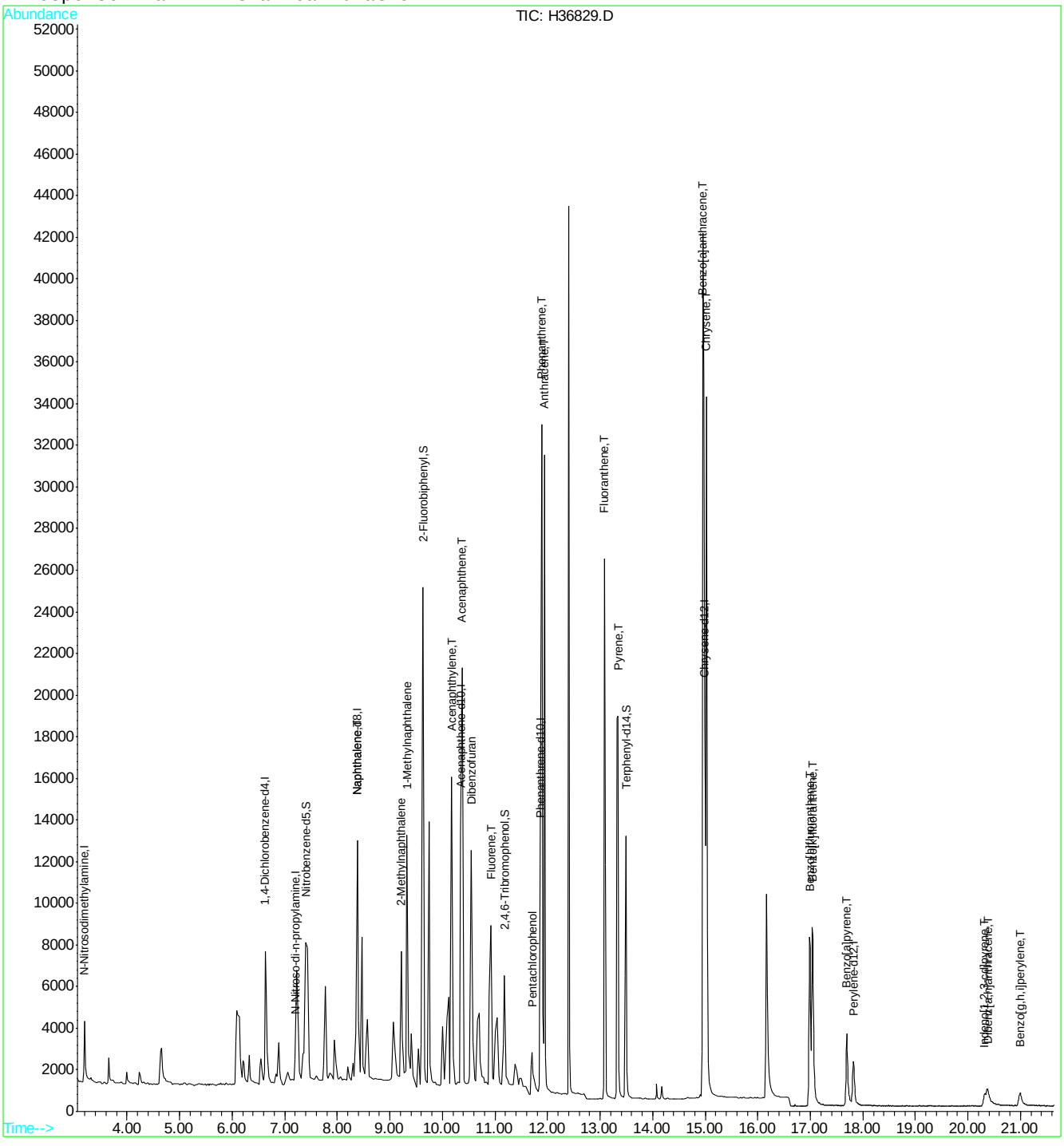
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.19	74	1211	2.54	ppb #	66
3) N-Nitroso-di-n-propylamine	7.20	70	2720	4.75	ppb #	98
6) Naphthalene	8.38	128	9935	4.07	ppb	98
7) 2-Methylnaphthalene	9.21	142	6020	3.61	ppb #	96
8) 1-Methylnaphthalene	9.33	142	14149	5.47	ppb #	69
11) Acenaphthylene	10.18	152	15233	2.76	ppb	96
12) Acenaphthene	10.38	153	13239	3.86	ppb	97
13) Dibenzofuran	10.55	168	9286	2.94	ppb	90
14) Fluorene	10.92	166	7850	4.42	ppb	99
17) Pentachlorophenol	11.71	266	6477	3.71	ppb	100
18) Phenanthrene	11.89	178	27755	4.41	ppb	99
19) Anthracene	11.94	178	26277	4.82	ppb	98
20) Fluoranthene	13.08	202	35075	4.94	ppb	98
22) Pyrene	13.34	202	34374	4.41	ppb	100
24) Benzo[a]anthracene	14.95	228	34726	4.58	ppb	99
25) Chrysene	15.02	228	34684	4.60	ppb	98
27) Benzo[b]fluoranthene	16.99	252	17221	4.70	ppb	100
28) Benzo[k]fluoranthene	17.04	252	20046	4.83	ppb	100
29) Benzo[a]pyrene	17.69	252	9832	4.18	ppb	100
30) Indeno[1,2,3-cd]pyrene	20.31	276	3407	4.42	ppb	100
31) Dibenz[a,h]anthracene	20.38	278	2533	4.56	ppb	100
32) Benzo[g,h,i]perylene	21.00	276	2633	4.42	ppb	100

(#) = qualifier out of range (m) = manual integration
H36829.D H20410SP.M Thu Feb 04 12:00:31 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36829.D Vial: 12
Acq On : 3 Feb 2010 5:56 pm Operator: sheilac
Sample : op13977-bsd Inst : TXMSH
Misc : OP13977,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 18:19 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20410SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Feb 04 11:56:36 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On : 4 Feb 2010 5:19 pm
Operator : garyj
Sample : op13984-ms, (x4, 20ml)
Misc : op13984,Ep404,30.19,,,20,4,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	426719	40.00	ppm	0.01
25) Naphthalene-d8	6.489	136	1188436	40.00	ppm	0.03
46) Acenaphthene-d10	9.104	164	949664	40.00	ppm	0.03
70) Phenanthrene-d10	12.073	188	928875m	40.00	ppm	0.13
85) Chrysene-d12	17.625	240	337541m	40.00	ppm	0.10
94) Perylene-d12	20.454	264	150202	40.00	ppm	0.06
System Monitoring Compounds						
10) 2-Fluorophenol	4.151	112	12088	0.77	ppm	0.00
Spiked Amount 100.000	Range 26 - 124		Recovery = 0.77%#			
12) Phenol-d5	4.927	99	14283	0.78	ppm	0.02
Spiked Amount 100.000	Range 19 - 106		Recovery = 0.78%#			
26) Nitrobenzene-d5	5.681	82	7771	0.52	ppm	-0.02
Spiked Amount 50.000	Range 18 - 104		Recovery = 1.04%#			
50) 2-Fluorobiphenyl	7.954	172	19597	0.58	ppm	0.00
Spiked Amount 50.000	Range 21 - 114		Recovery = 1.16%#			
75) 2,4,6-Tribromophenol	10.634	330	1673m	0.69	ppm	0.03
Spiked Amount 100.000	Range 18 - 129		Recovery = 0.69%#			
88) Terphenyl-d14	15.426	244	5040m	0.58	ppm	0.07
Spiked Amount 50.000	Range 24 - 149		Recovery = 1.16%#			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.889	42	2147	0.25	ppm #	9
5) Pyridine	2.911	79	7550m	0.43	ppm	
9) Aniline	4.884	93	7903	0.36	ppm #	84
11) bis(2-Chloroethyl)ether	4.932	93	14901	0.80	ppm #	1
13) Phenol	4.938	94	428419	20.64	ppm	78
14) 2-Chlorophenol	5.023	128	5766	0.35	ppm #	26
15) 1,3-Dichlorobenzene	5.114	146	6983	0.35	ppm	93
16) 1,4-Dichlorobenzene	5.173	146	7021m	0.38	ppm	
17) 1,2-Dichlorobenzene	5.317	146	6900	0.40	ppm	99
18) Benzyl alcohol	5.307	108	2507	0.23	ppm #	1
19) bis(2-chloroisopropyl)...	5.408	45	14373	0.42	ppm #	86
20) 2-Methylphenol	5.440	108	119913	6.96	ppm	98
22) Hexachloroethane	5.654	117	4883m	0.66	ppm	
23) N-Nitroso-di-n-propyla...	5.537	70	6117	0.50	ppm #	82
24) 3&4-Methylphenol	5.585	108	473994	29.39	ppm #	48
27) Nitrobenzene	5.703	77	6183m	0.44	ppm	
28) Isophorone	5.954	82	17072	0.58	ppm #	94
29) 2-Nitrophenol	6.034	139	1921m	0.28	ppm	
30) 2,4-Dimethylphenol	6.120	107	175687	13.60	ppm	91
31) bis(2-Chloroethoxy)met...	6.189	93	9923	0.62	ppm #	75
33) 2,4-Dichlorophenol	6.382	162	5752	0.57	ppm	88
34) 1,2,4-Trichlorobenzene	6.435	180	6414	0.56	ppm #	50
35) Naphthalene	6.542	128	24084927	721.97	ppm	100
37) 2,6-Dichlorophenol	6.687	162	2088	0.23	ppm #	27
39) Hexachlorobutadiene	6.649	225	4050	0.58	ppm	90
42) 4-Chloro-3-methylphenol	7.280	107	3292m	0.31	ppm	
43) 2-Methylnaphthalene	7.430	142	7580736	334.50	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On : 4 Feb 2010 5:19 pm
Operator : garyj
Sample : op13984-ms, (x4, 20ml)
Misc : op13984,Ep404,30.19,,,20,4,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1-Methylnaphthalene	7.569	142	4648470	209.75	ppm		99
48)	2,4,6-Trichlorophenol	7.890	196	3659	0.39	ppm	#	81
49)	2,4,5-Trichlorophenol	8.019	196	3378	0.40	ppm	#	86
51)	1,1'-Biphenyl	8.120	154	3139501	91.43	ppm		100
52)	2-Chloronaphthalene	8.147	162	21332	0.61	ppm	#	63
54)	Acenaphthylene	8.848	152	2761934	61.41	ppm		96
55)	Dimethylphthalate	8.655	163	17261	0.46	ppm	#	86
57)	2,6-Dinitrotoluene	8.783	165	3586	0.43	ppm	#	1
58)	Acenaphthene	9.211	153	13578476	468.52	ppm		98
61)	Dibenzofuran	9.516	168	14366601	389.56	ppm		96
66)	Fluorene	10.195	166	18291222	626.75	ppm		98
67)	4-Chlorophenyl-phenyle...	10.179	204	4831	0.33	ppm	#	1
68)	Diethylphthalate	9.981	149	16605	0.46	ppm	#	89
76)	4-Bromophenyl-phenylether	11.078	248	4319	0.78	ppm	#	52
80)	Phenanthrene	12.212	178	71746590m	2901.95	ppm		
81)	Anthracene	12.287	178	17545898m	659.46	ppm		
82)	Carbazole	12.565	167	7931547m	330.40	ppm		
84)	Fluoranthene	14.656	202	37898632m	1382.28	ppm		
87)	Pyrene	15.143	202	33603295m	2360.99	ppm		
89)	Butylbenzylphthalate	16.453	149	7522	1.08	ppm	#	73
91)	Benzo[a]anthracene	17.593	228	8871581	855.65	ppm		95
92)	Chrysene	17.694	228	7509147	765.18	ppm		97
95)	Di-n-octylphthalate	18.999	149	9338	0.98	ppm	#	2
96)	Benzo[b]fluoranthene	19.679	252	670831m	120.62	ppm		
97)	Benzo[k]fluoranthene	19.732	252	4313073m	872.09	ppm		
98)	Benzo[a]pyrene	20.358	252	2311769	497.58	ppm		97
99)	Indeno[1,2,3-cd]pyrene	22.936	276	1193927	323.11	ppm		95
100)	Dibenz[a,h]anthracene	22.947	278	248096	79.93	ppm		75
101)	Benzo[g,h,i]perylene	23.663	276	921033	309.14	ppm		92

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

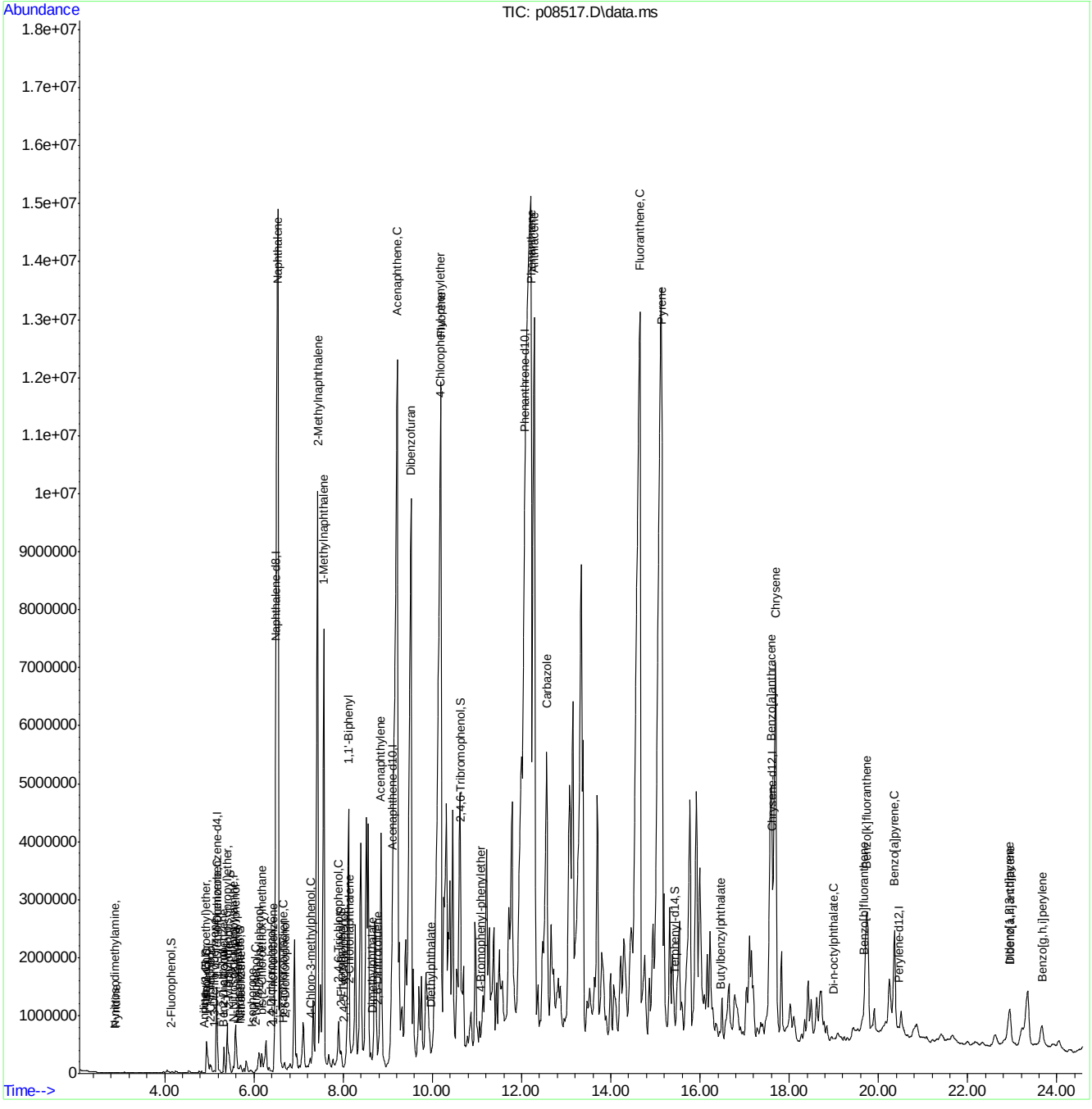
8.4.1

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On : 4 Feb 2010 5:19 pm
Operator : garyj
Sample : op13984-ms, (x4, 20ml)
Misc : op13984,Ep404,30.19,,,20,4,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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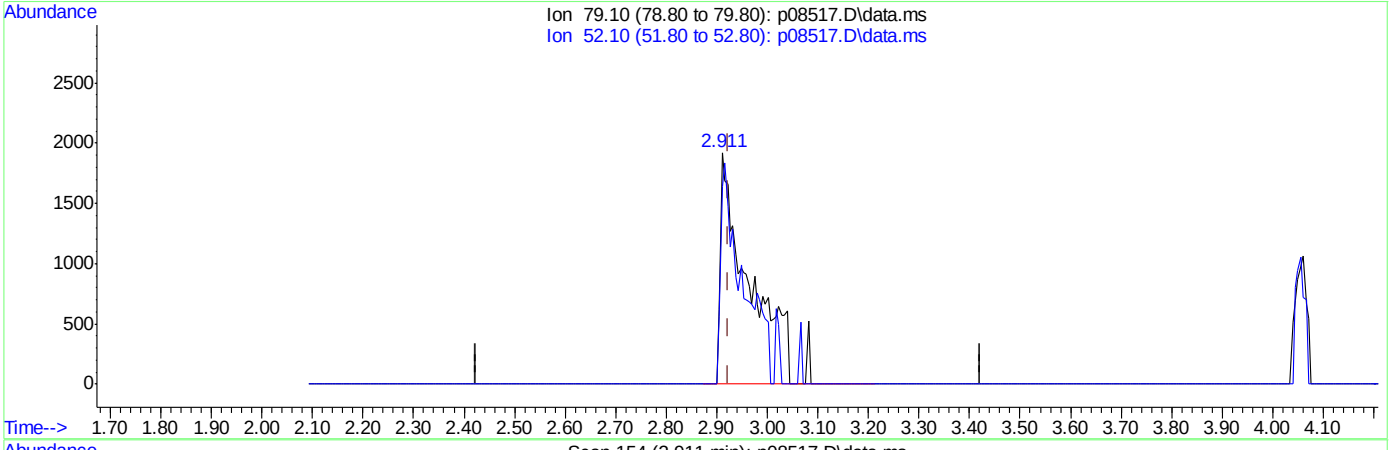
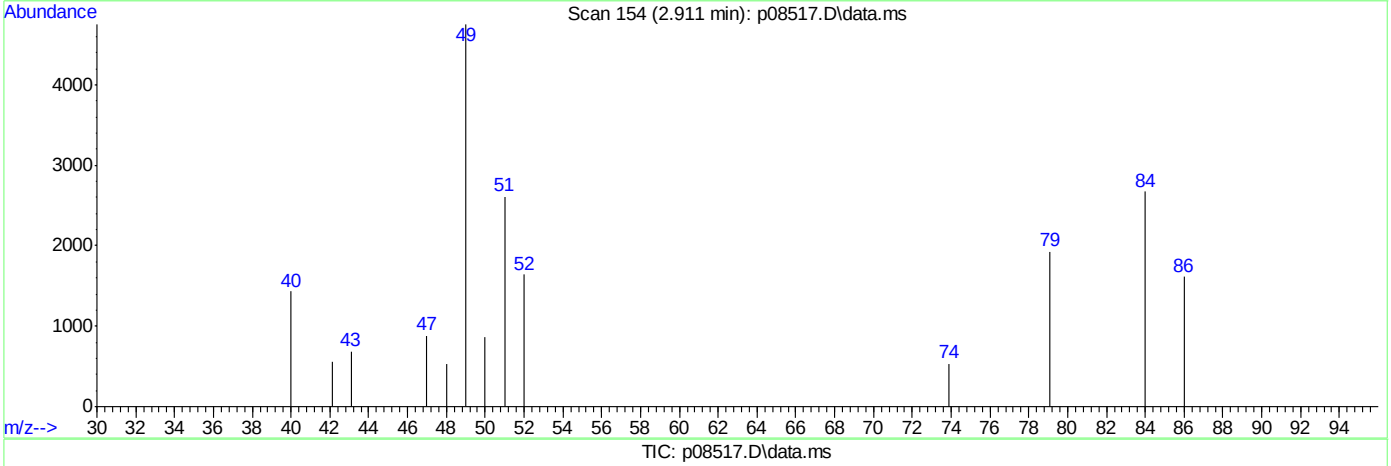




TIC: p08517.D\data.ms

(5) Pyridine ( )

2.911min (-0.013) 0.43ppm m

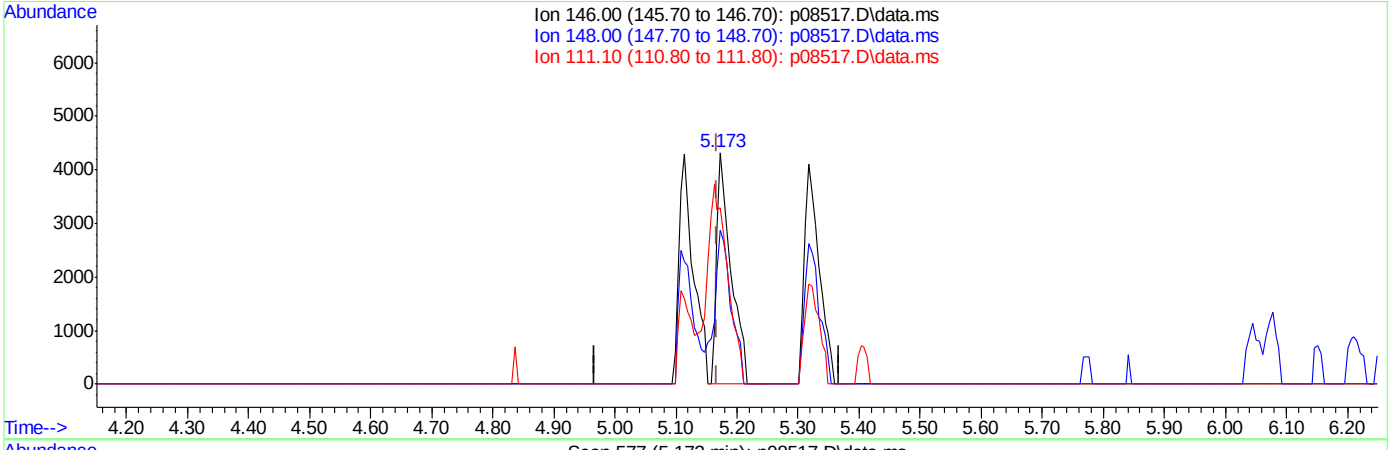
response 7550

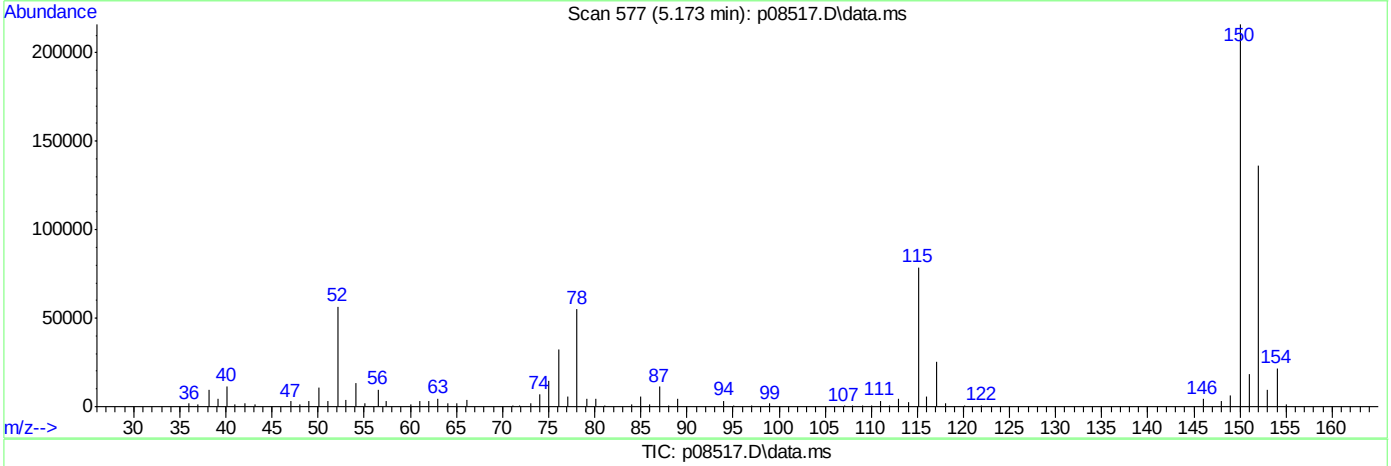
Ion	Exp%	Act%
79.10	100	100
52.10	94.10	59.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On : 4 Feb 2010 5:19 pm
Operator : garyj
Sample : op13984-ms, (x4, 20ml)
Misc : op13984,Ep404,30.19,,,20,4,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08517.D\data.ms

(16) 1,4-Dichlorobenzene (C)

5.173min (+0.006) 0.38ppm m

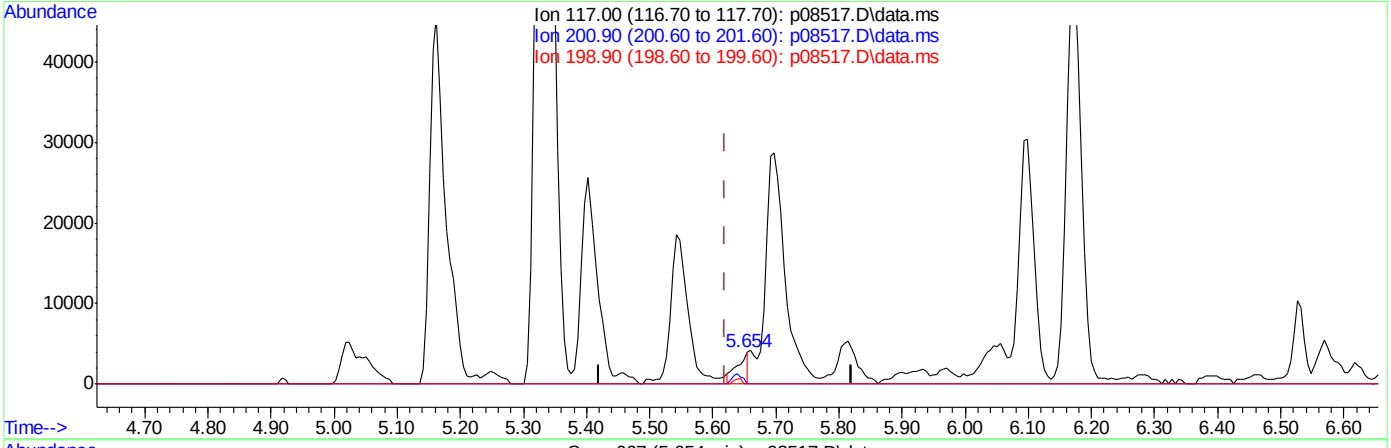
response 7021

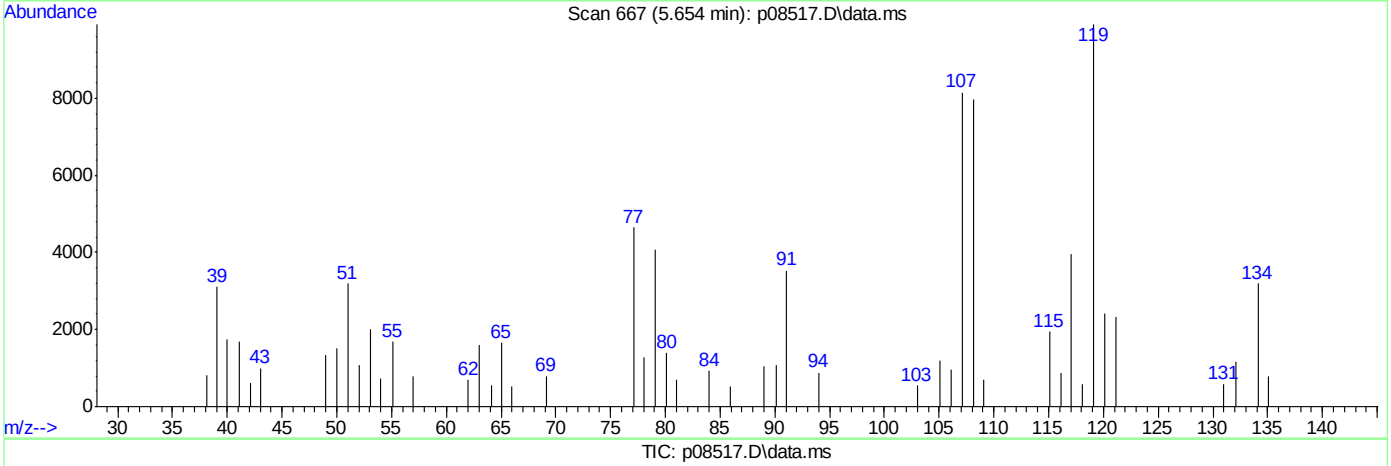
Ion	Exp%	Act%
146.00	100	100
148.00	62.40	59.88
111.10	40.80	35.18
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(22) Hexachloroethane ( )

5.654min (+0.034) 0.66ppm m

response 4883

Ion	Exp%	Act%
117.00	100	100
200.90	90.40	0.00#
198.90	57.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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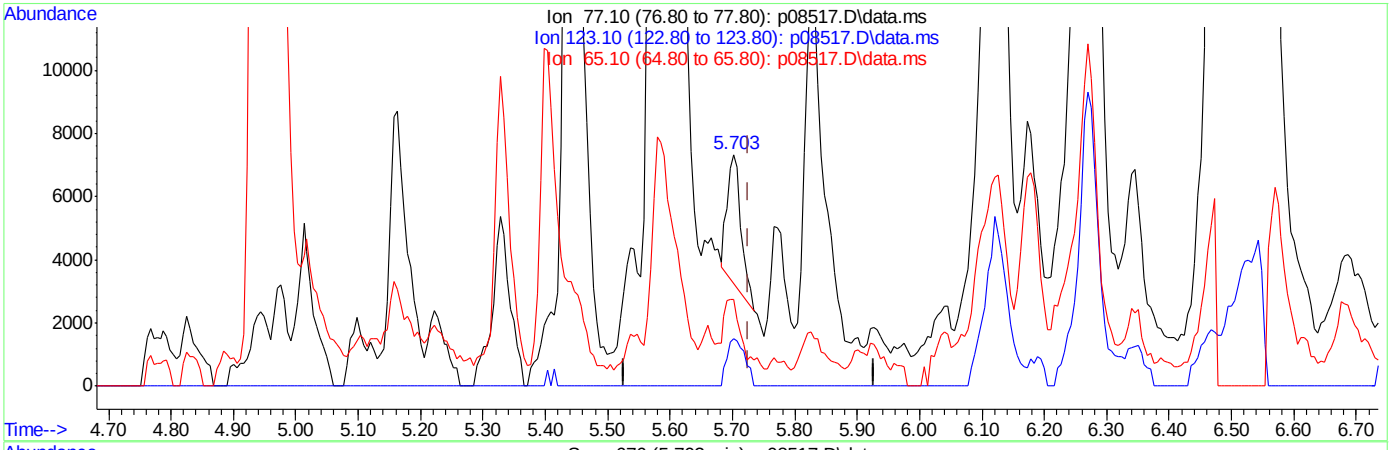

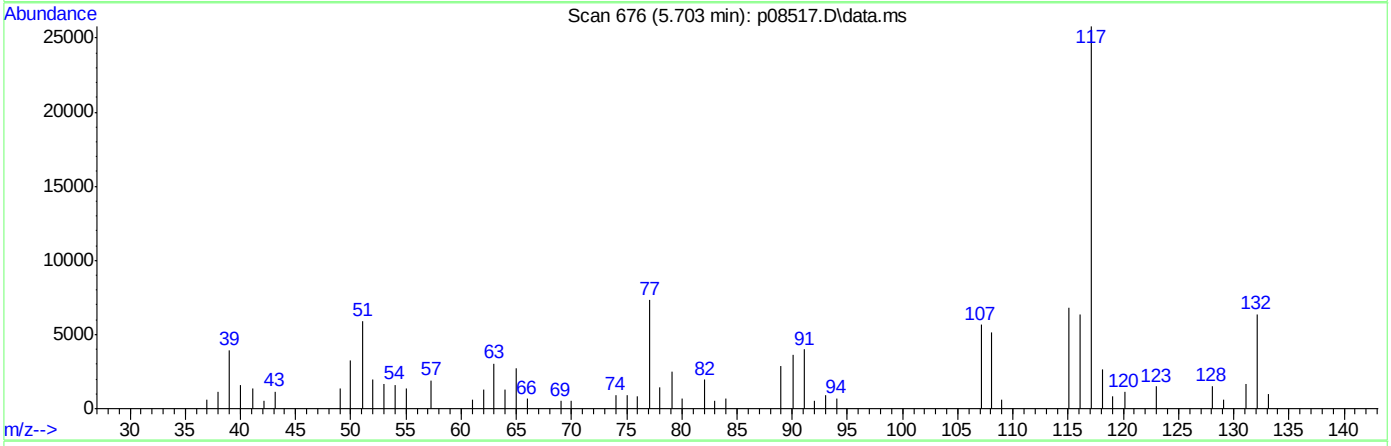

TIC: p08517.D\data.ms

(27) Nitrobenzene

5.703min (-0.024) 0.44ppm m

response 6183

Ion	Exp%	Act%
77.10	100	100
123.10	42.50	48.52
65.10	15.20	77.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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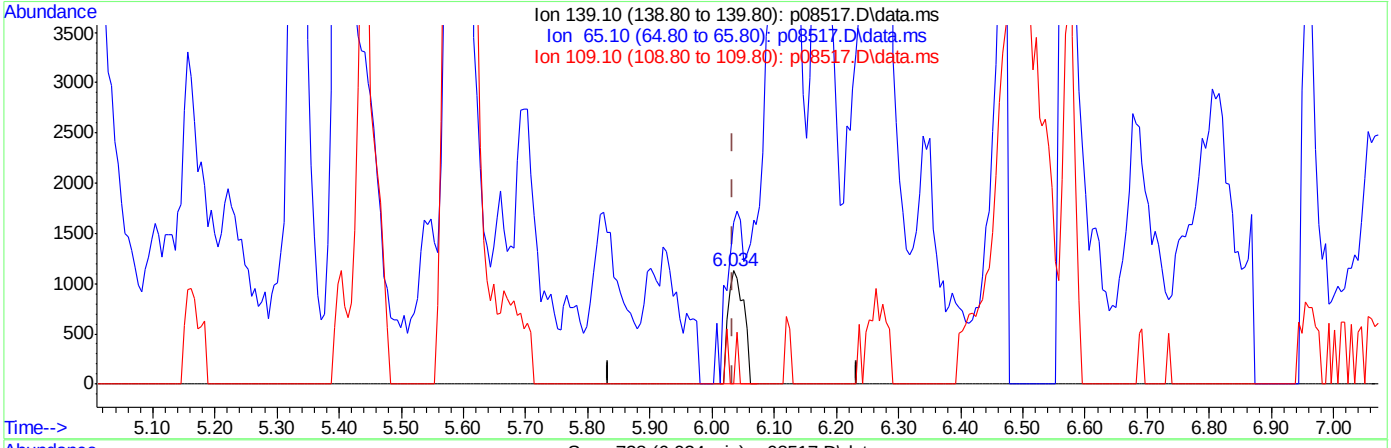
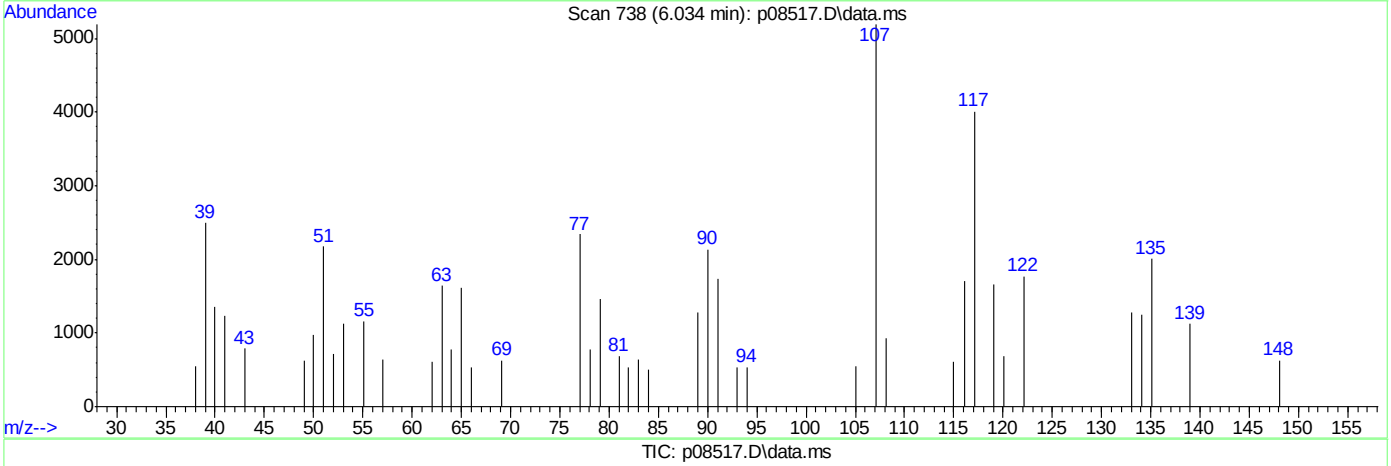




TIC: p08517.D\data.ms

(29) 2-Nitrophenol (C)

6.034min (-0.000) 0.28ppm m

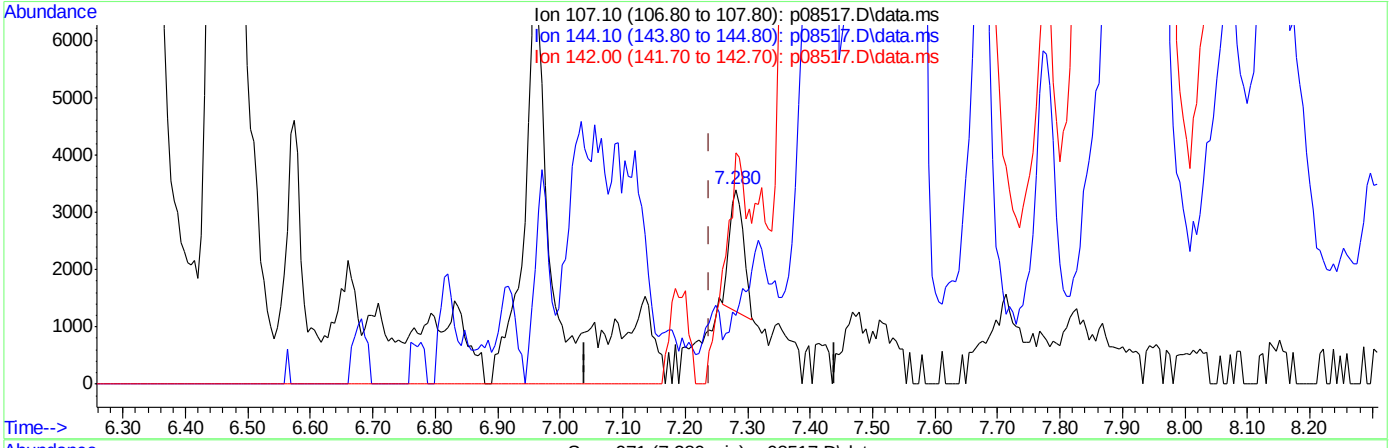
response 1921

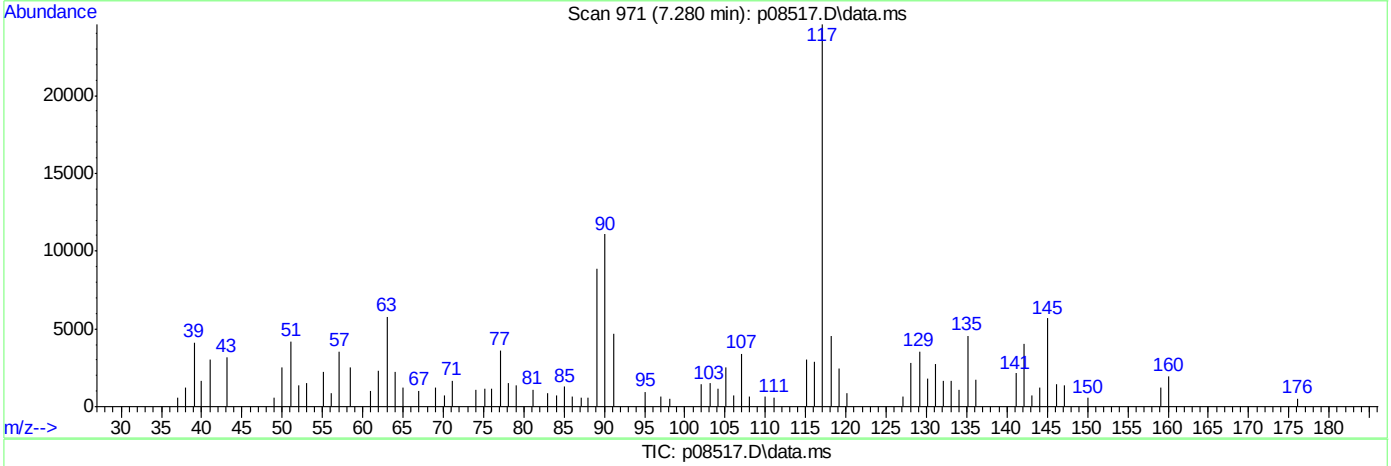
Ion	Exp%	Act%
139.10	100	100
65.10	57.70	0.00#
109.10	30.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(42) 4-Chloro-3-methylphenol (C)

7.280min (+0.041) 0.31ppm m

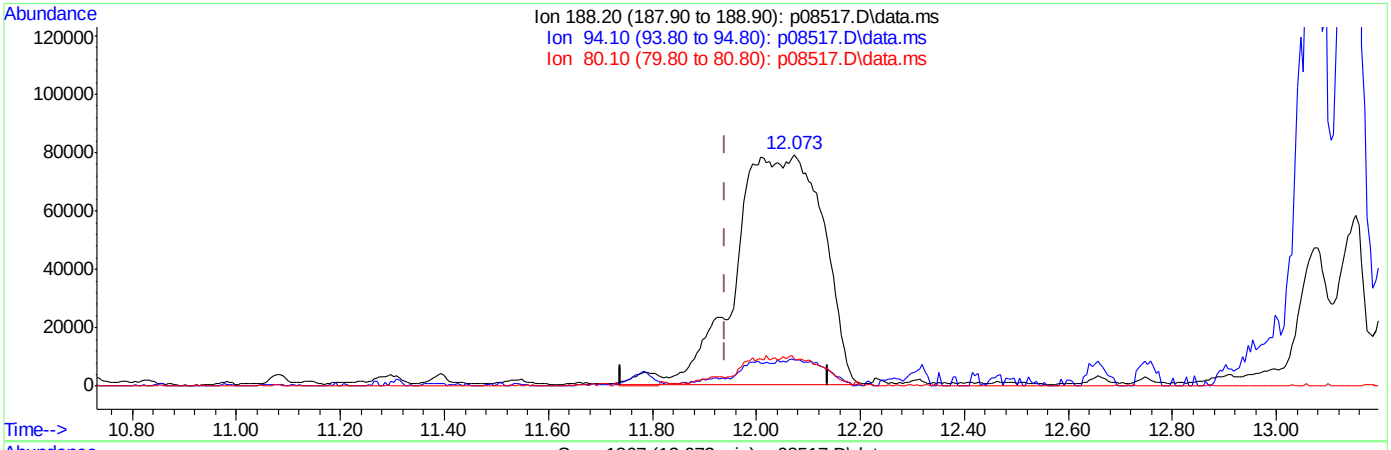
response 3292

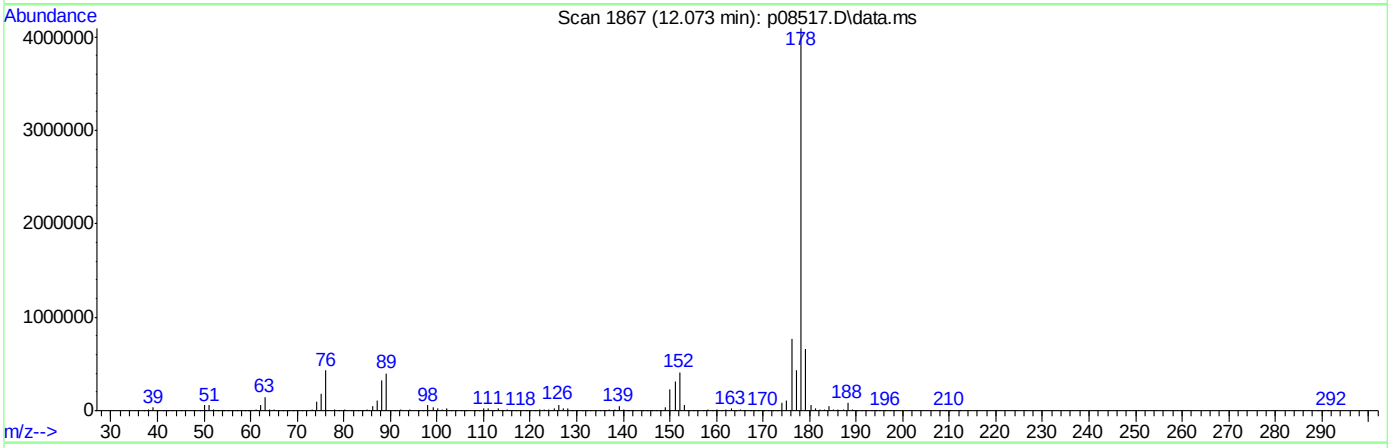
Ion	Exp%	Act%
107.10	100	100
144.10	25.20	0.00
142.00	73.10	334.11#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(70) Phenanthrene-d10 (I)

12.073min (+0.134) 40.00ppm m

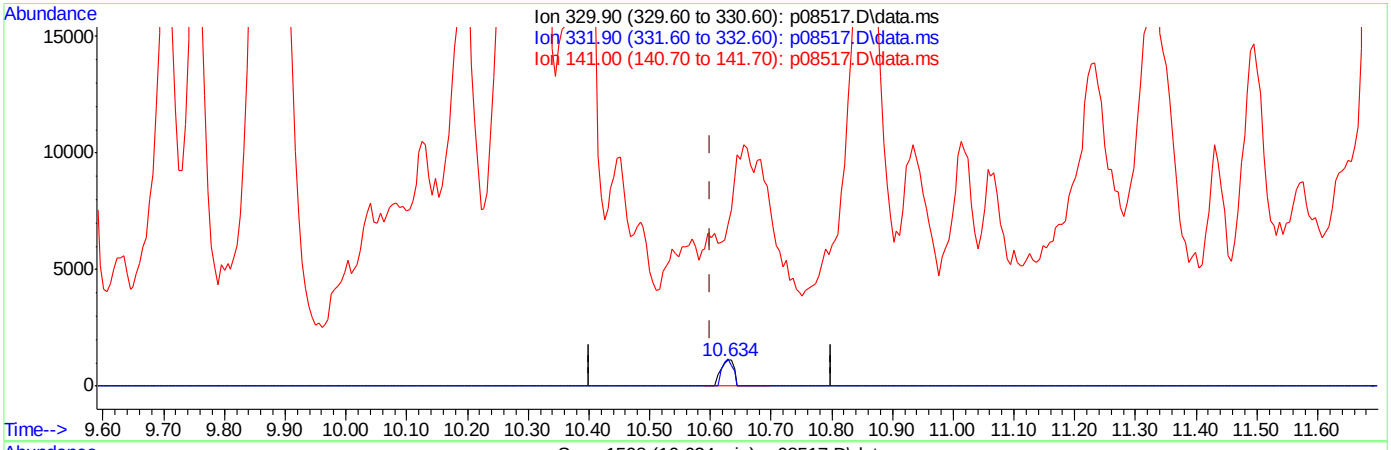
response 928875

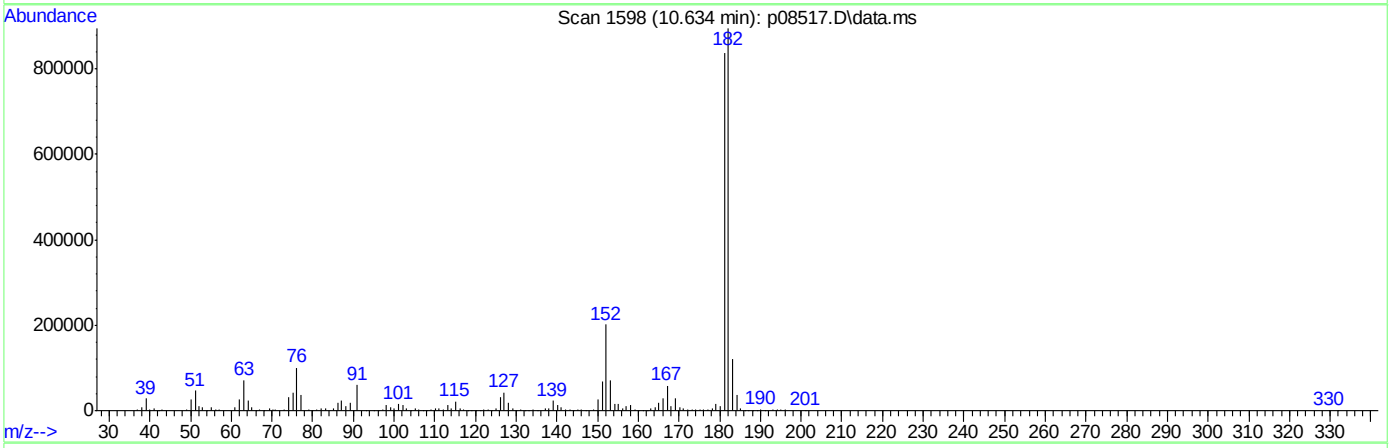
Ion	Exp%	Act%
188.20	100	100
94.10	8.70	1.77
80.10	9.90	1.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On : 4 Feb 2010 5:19 pm
Operator : garyj
Sample : op13984-ms, (x4, 20ml)
Misc : op13984,Ep404,30.19,,,20,4,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(75) 2,4,6-Tribromophenol (S)

10.634min (+0.033) 0.69ppm m

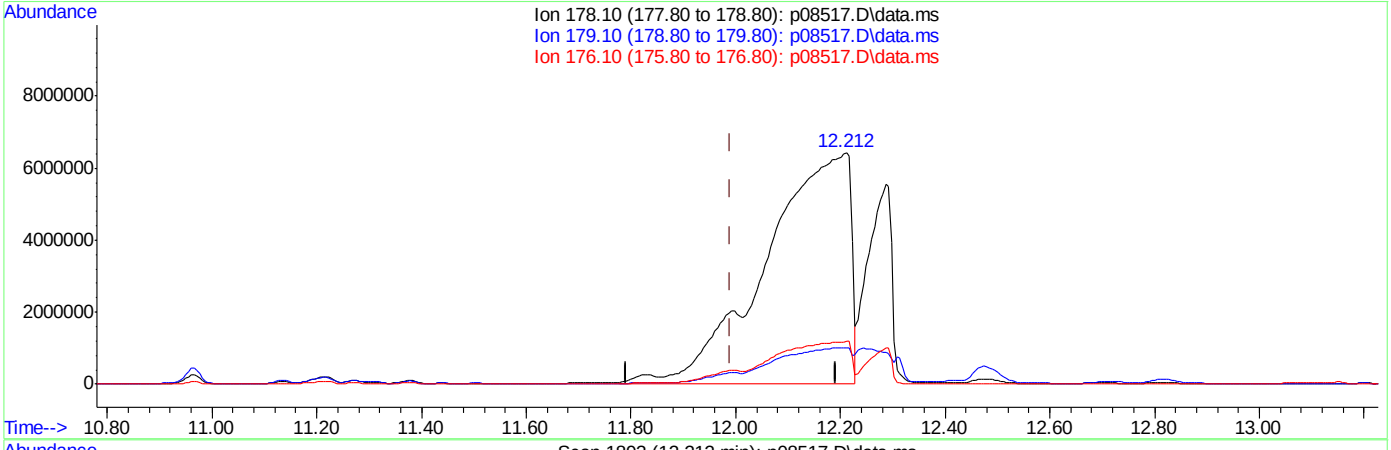
response 1673

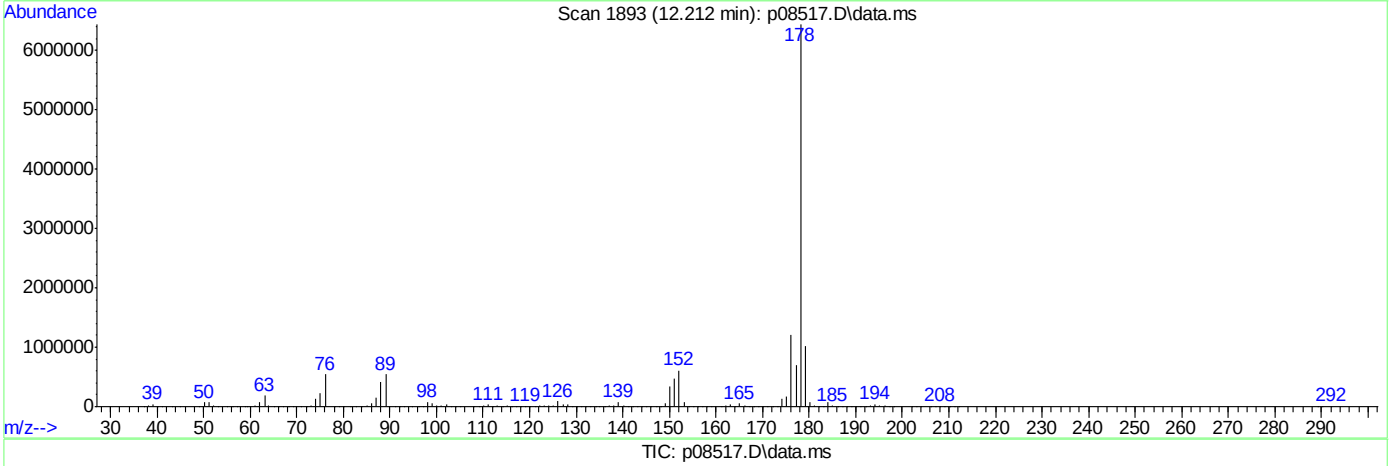
Ion	Exp%	Act%
329.90	100	100
331.90	98.50	0.00#
141.00	37.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(80) Phenanthrene

12.212min (+0.220) 2901.95ppm m

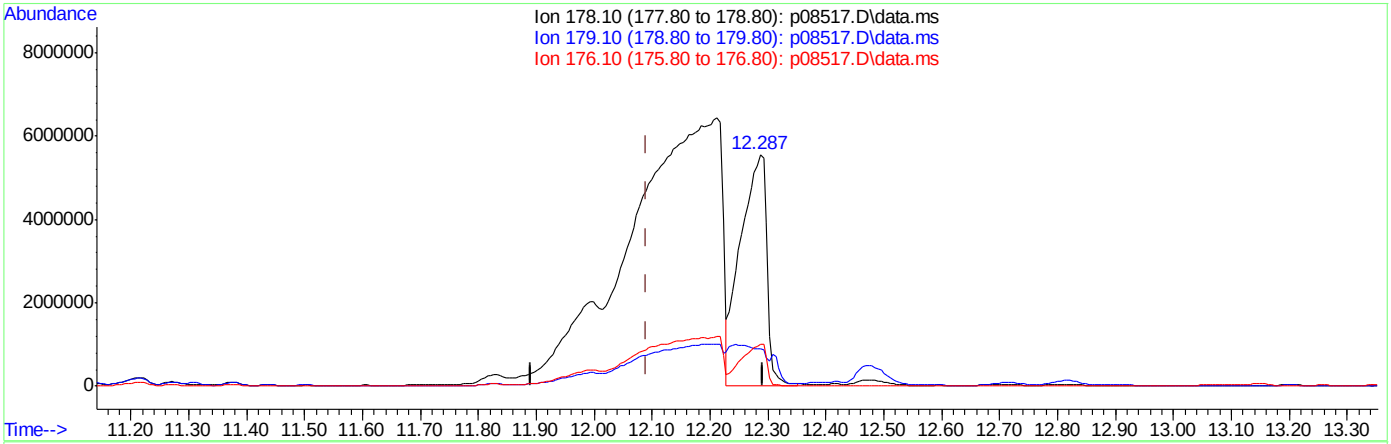
response 71746590

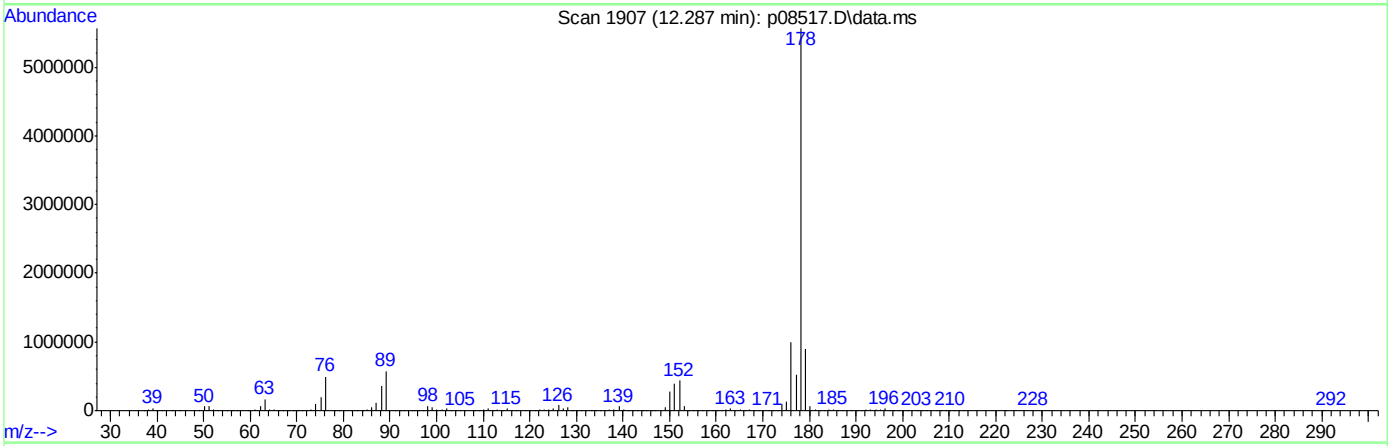
Ion	Exp%	Act%
178.10	100	100
179.10	15.30	1.70
176.10	19.40	2.07
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(81) Anthracene

12.287min (+0.195) 659.46ppm m

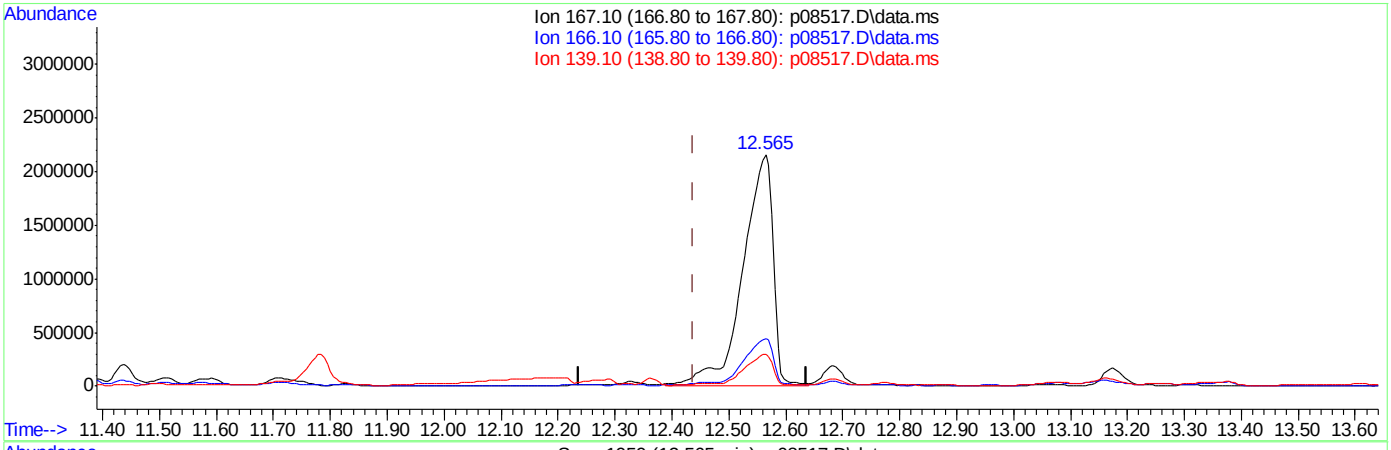
response 17545898

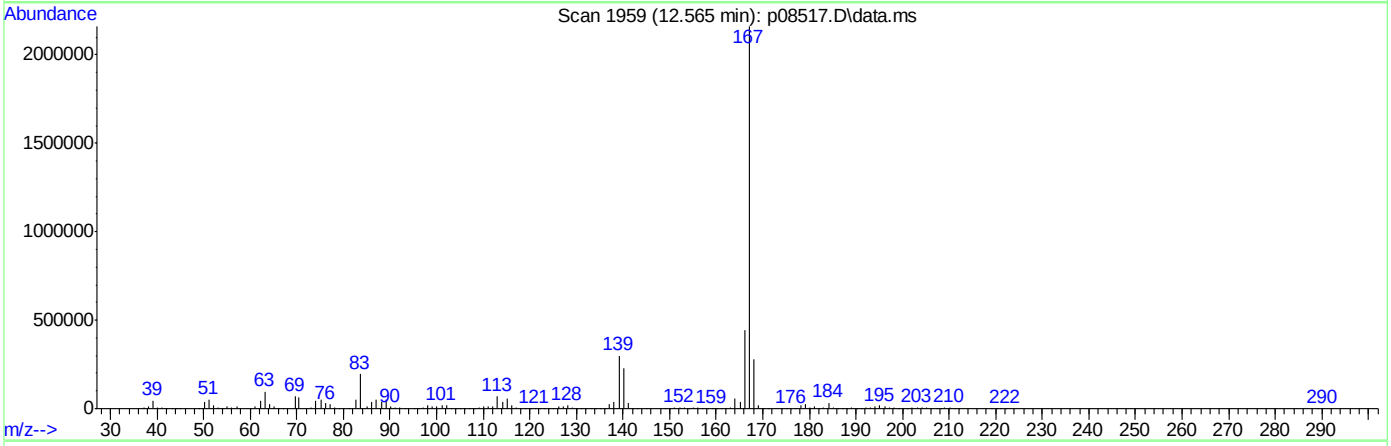
Ion	Exp%	Act%
178.10	100	100
179.10	15.00	32.81
176.10	18.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(82) Carbazole

12.565min (+0.127) 330.40ppm m

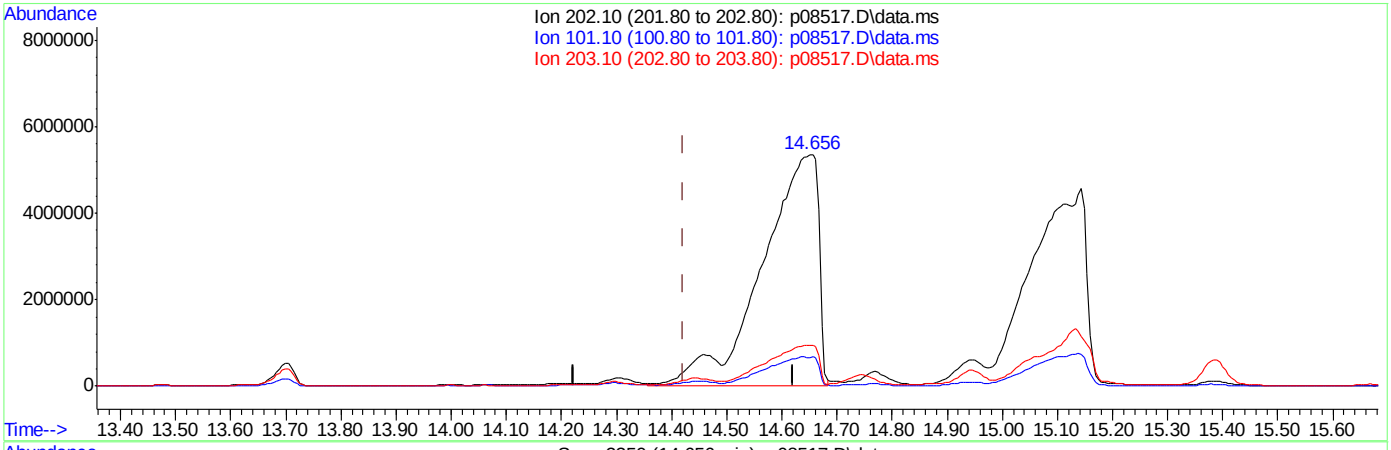
response 7931547

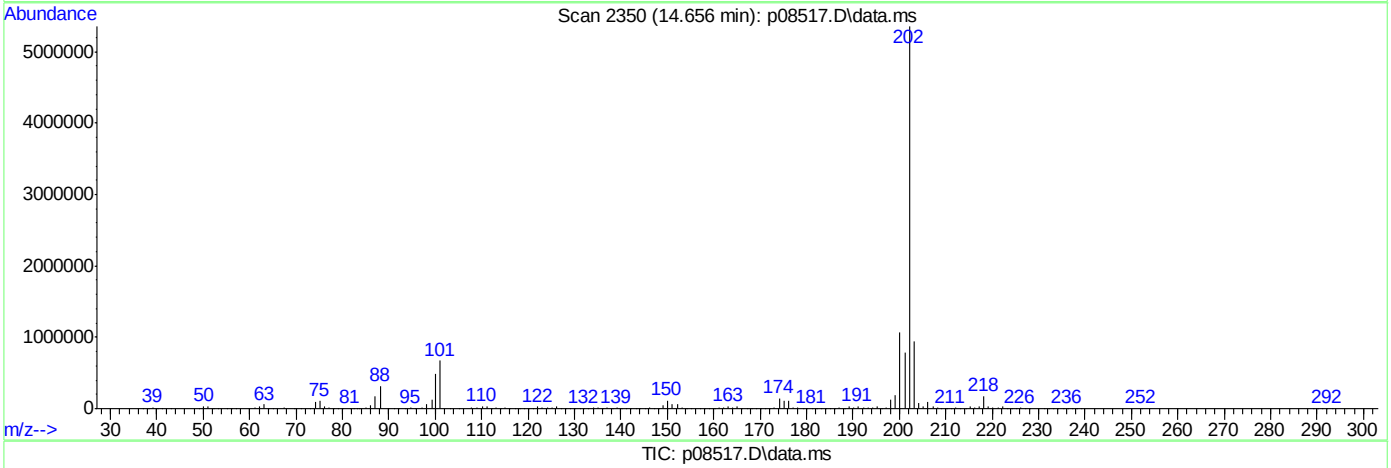
Ion	Exp%	Act%
167.10	100	100
166.10	20.00	1.33
139.10	13.30	0.75
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(84) Fluoranthene (C)

14.656min (+0.234) 1382.28ppm m

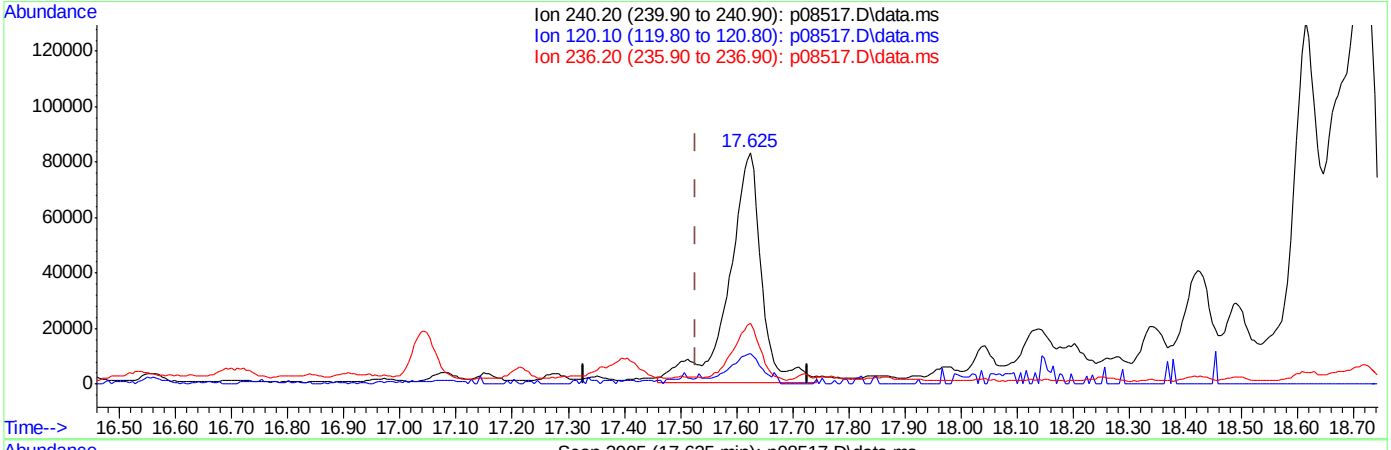
response 37898632

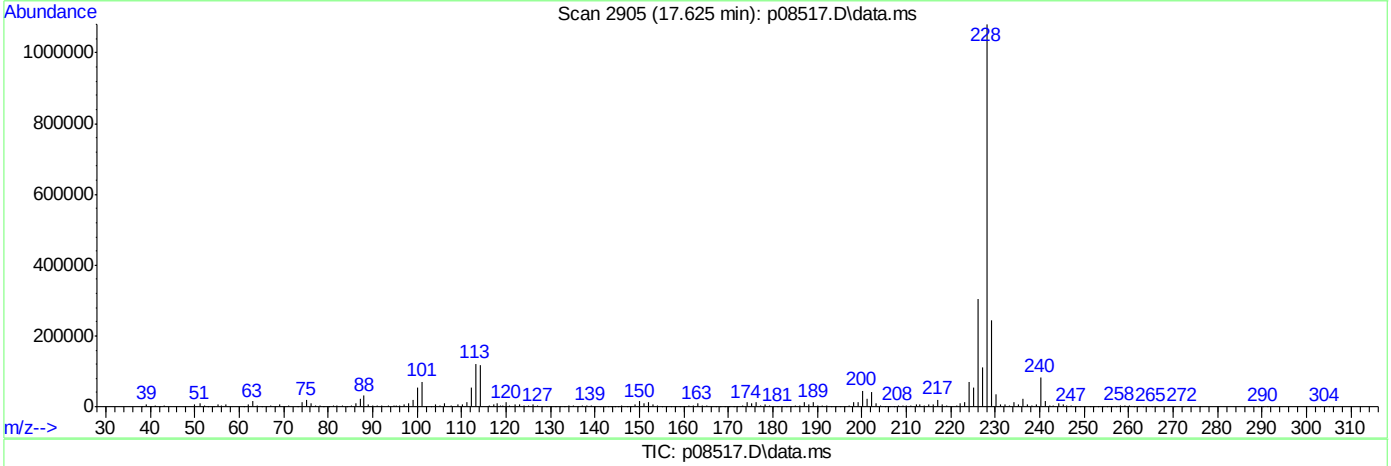
Ion	Exp%	Act%
202.10	100	100
101.10	13.10	1.00
203.10	17.40	1.72
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(85) Chrysene-d12 (I)

17.625min (+0.096) 40.00ppm m

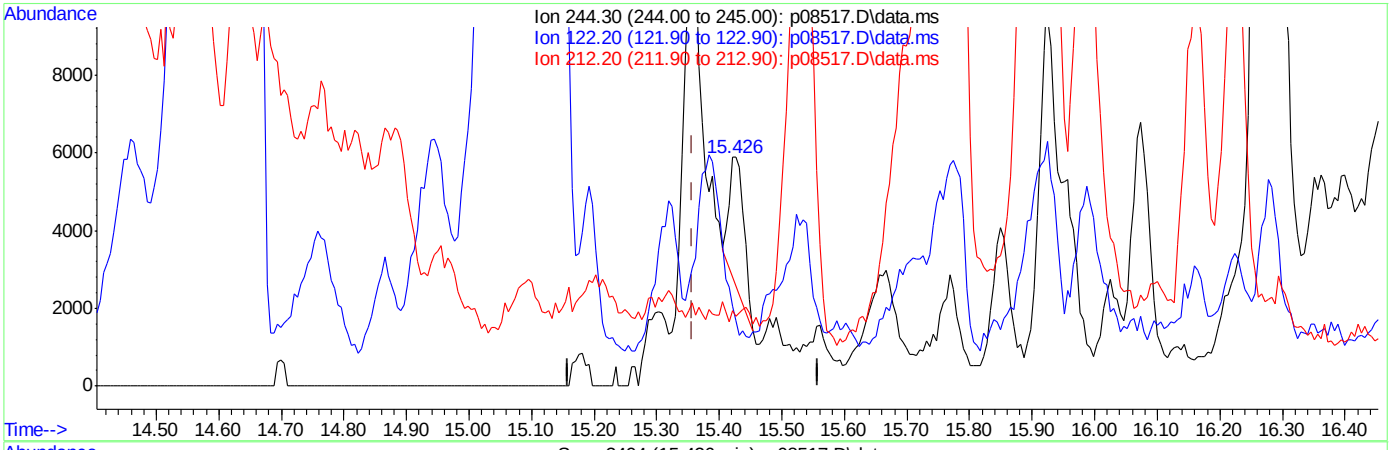
response 337541

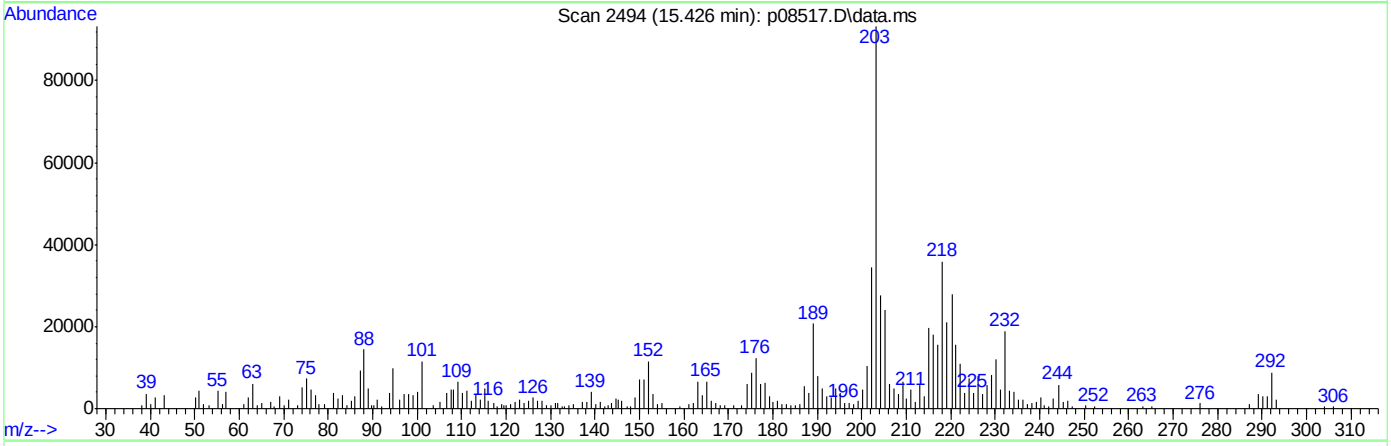
Ion	Exp%	Act%
240.20	100	100
120.10	11.00	13.16
236.20	24.10	20.78
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(88) Terphenyl-d14 (S)

15.426min (+0.068) 0.58ppm m

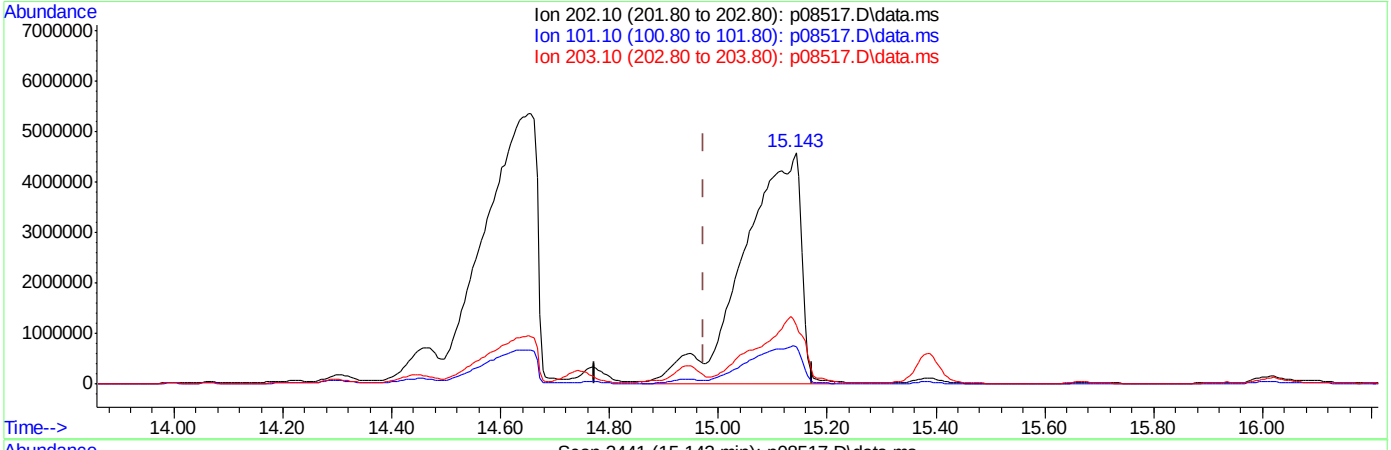
response 5040

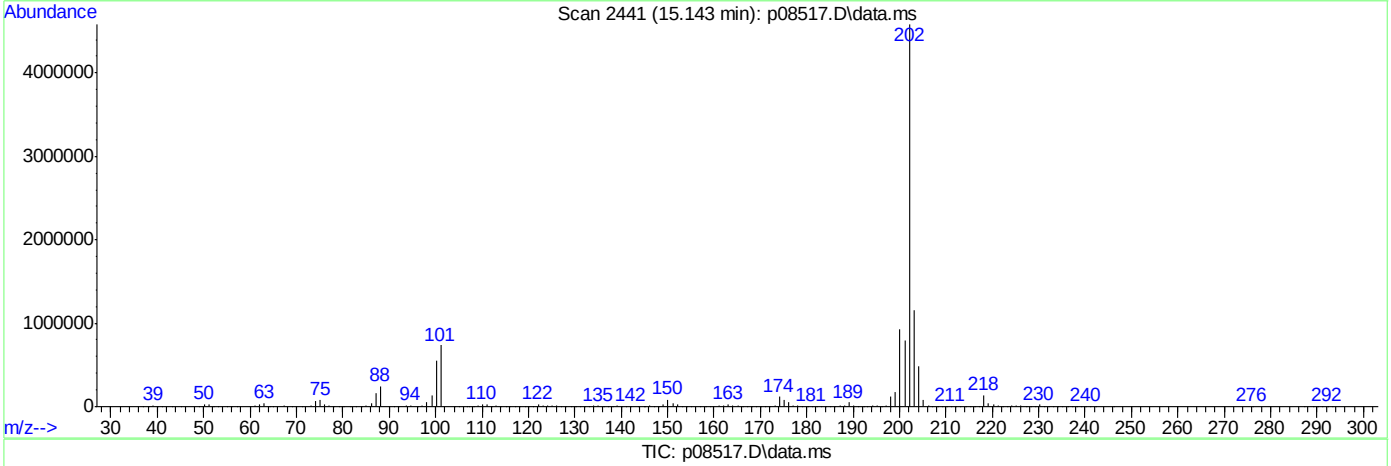
Ion	Exp%	Act%
244.30	100	100
122.20	12.10	0.00
212.20	7.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(87) Pyrene

15.143min (+0.170) 2360.99ppm m

response 33603295

Ion	Exp%	Act%
202.10	100	100
101.10	15.70	14.84
203.10	17.80	23.10
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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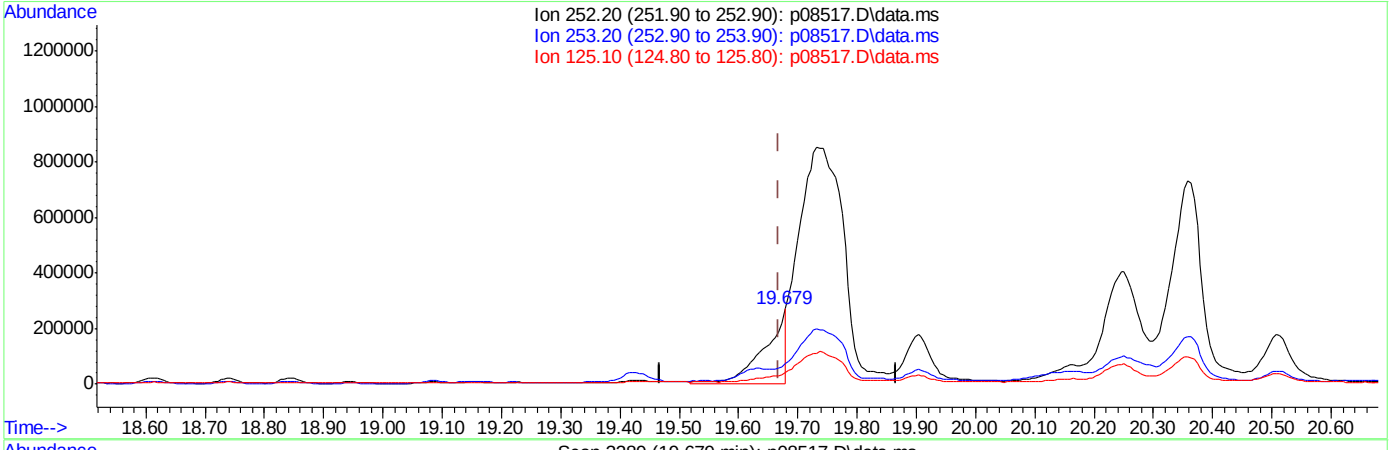
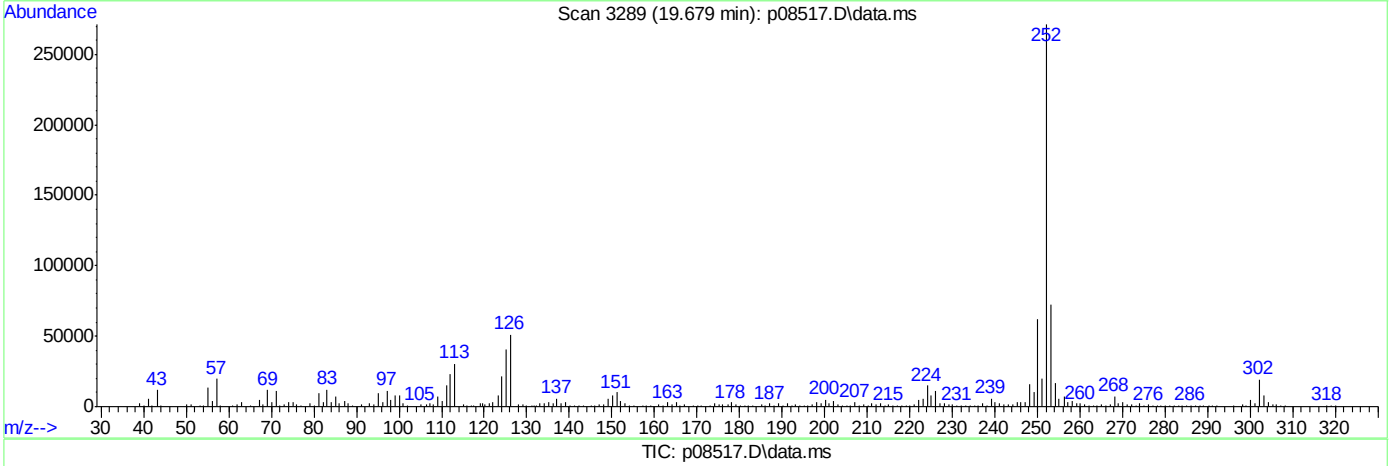




(96) Benzo[b]fluoranthene

19.679min (+0.011) 120.62ppm m

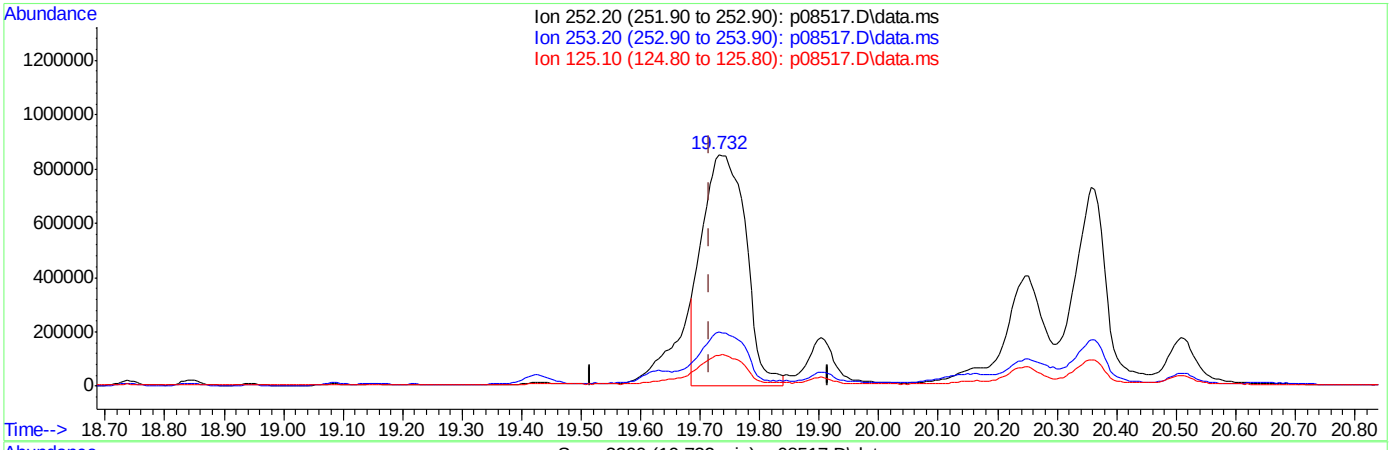
response 670831

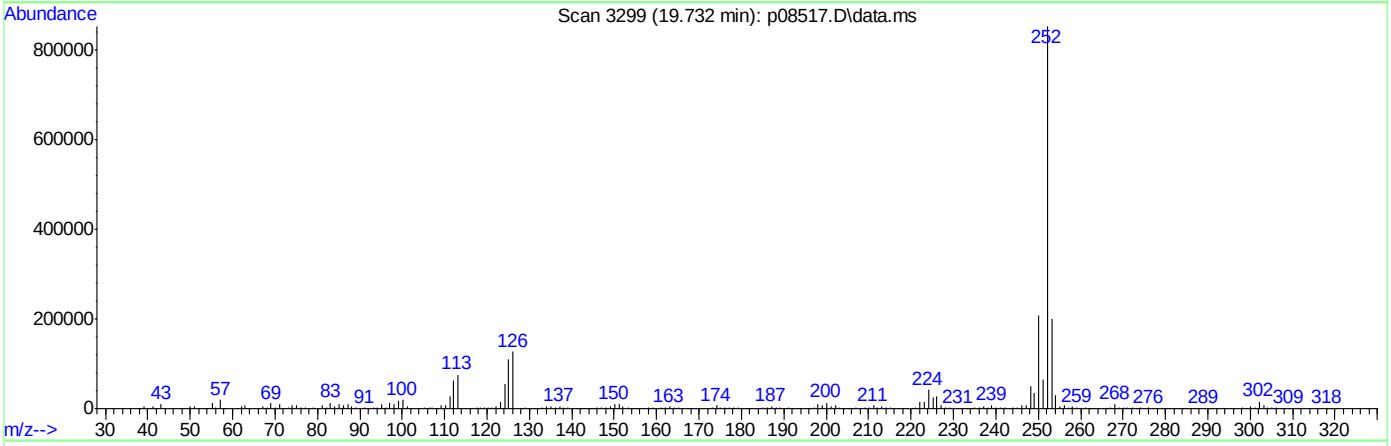
Ion	Exp%	Act%
252.20	100	100
253.20	22.40	141.56#
125.10	10.40	93.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08517.D
Acq On    :  4 Feb 2010   5:19 pm
Operator  : garyj
Sample    : op13984-ms, (x4, 20ml)
Misc      : op13984,Ep404,30.19,,,20,4,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Feb 05 09:48:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08517.D\data.ms

(97) Benzo[k]fluoranthene

19.732min (+0.016) 872.09ppm m

response 4313073

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	21.48
125.10	10.30	13.98
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	452875	40.00	ppm	0.01
25) Naphthalene-d8	6.505	136	1218762	40.00	ppm	0.04
46) Acenaphthene-d10	9.115	164	960663	40.00	ppm	0.04
70) Phenanthrene-d10	12.057	188	894618m	40.00	ppm	0.12
85) Chrysene-d12	17.646	240	256264	40.00	ppm	0.12
94) Perylene-d12	20.475	264	155562	40.00	ppm	0.09
System Monitoring Compounds						
10) 2-Fluorophenol	4.157	112	11827	0.71	ppm	0.01
Spiked Amount 100.000	Range 26 - 124		Recovery = 0.71%#			
12) Phenol-d5	4.927	99	14328	0.73	ppm	0.02
Spiked Amount 100.000	Range 19 - 106		Recovery = 0.73%#			
26) Nitrobenzene-d5	5.686	82	7656	0.50	ppm	-0.02
Spiked Amount 50.000	Range 18 - 104		Recovery = 1.00%#			
50) 2-Fluorobiphenyl	7.954	172	18856	0.55	ppm	0.00
Spiked Amount 50.000	Range 21 - 114		Recovery = 1.10%#			
75) 2,4,6-Tribromophenol	10.639	330	1384m	0.60	ppm	0.04
Spiked Amount 100.000	Range 18 - 129		Recovery = 0.60%#			
88) Terphenyl-d14	15.453	244	6667m	1.01	ppm	0.09
Spiked Amount 50.000	Range 24 - 149		Recovery = 2.02%#			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.889	42	2126	0.23	ppm	# 9
5) Pyridine	2.905	79	8604m	0.46	ppm	
9) Aniline	4.884	93	9031	0.39	ppm	# 51
11) bis(2-Chloroethyl)ether	4.932	93	17773	0.89	ppm	# 1
13) Phenol	4.938	94	534914	24.29	ppm	77
14) 2-Chlorophenol	5.018	128	5683	0.33	ppm	# 1
15) 1,3-Dichlorobenzene	5.109	146	7340	0.35	ppm	93
16) 1,4-Dichlorobenzene	5.173	146	6941m	0.35	ppm	
17) 1,2-Dichlorobenzene	5.317	146	6754	0.37	ppm	97
18) Benzyl alcohol	5.307	108	2466	0.21	ppm	# 1
19) bis(2-chloroisopropyl)...	5.408	45	14141	0.39	ppm	# 89
20) 2-Methylphenol	5.440	108	157464	8.62	ppm	98
22) Hexachloroethane	5.654	117	5659m	0.72	ppm	
23) N-Nitroso-di-n-propyla...	5.537	70	6368	0.49	ppm	# 89
24) 3&4-Methylphenol	5.580	108	598470	35.80	ppm	# 50
27) Nitrobenzene	5.772	77	6657	0.46	ppm	# 41
28) Isophorone	5.959	82	16410	0.55	ppm	# 94
29) 2-Nitrophenol	6.034	139	1928m	0.28	ppm	
30) 2,4-Dimethylphenol	6.130	107	232064	17.52	ppm	91
31) bis(2-Chloroethoxy)met...	6.195	93	8597	0.52	ppm	# 73
33) 2,4-Dichlorophenol	6.387	162	5901	0.57	ppm	90
34) 1,2,4-Trichlorobenzene	6.446	180	6187m	0.53	ppm	
35) Naphthalene	6.548	128	29509466	862.57	ppm	100
37) 2,6-Dichlorophenol	6.687	162	2302	0.24	ppm	# 27
39) Hexachlorobutadiene	6.649	225	3700	0.51	ppm	97
42) 4-Chloro-3-methylphenol	7.291	107	6915	0.64	ppm	# 1
43) 2-Methylnaphthalene	7.441	142	9399944	404.45	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1-Methylnaphthalene	7.575	142	5772164	253.97	ppm		98
48)	2,4,6-Trichlorophenol	7.896	196	3172	0.34	ppm	#	86
49)	2,4,5-Trichlorophenol	8.024	196	3370	0.40	ppm	#	76
51)	1,1'-Biphenyl	8.125	154	3770049	108.53	ppm		100
52)	2-Chloronaphthalene	8.152	162	21757	0.61	ppm	#	63
54)	Acenaphthylene	8.853	152	3274558	71.98	ppm		96
55)	Dimethylphthalate	8.660	163	16853	0.44	ppm	#	89
57)	2,6-Dinitrotoluene	8.805	165	5876m	0.69	ppm		
58)	Acenaphthene	9.227	153	16173845	551.68	ppm		98
61)	Dibenzofuran	9.527	168	16871249	452.24	ppm		95
66)	Fluorene	10.211	166	21100886	714.74	ppm		98
67)	4-Chlorophenyl-phenyle...	10.190	204	4121	0.28	ppm	#	28
68)	Diethylphthalate	10.003	149	15156	0.41	ppm	#	79
76)	4-Bromophenyl-phenylether	11.083	248	3922	0.74	ppm	#	1
80)	Phenanthrene	12.249	178	83646090m	3512.81	ppm		
81)	Anthracene	12.330	178	22318795m	870.97	ppm		
82)	Carbazole	12.597	167	10074749m	435.75	ppm		
84)	Fluoranthene	14.704	202	47530672m	1799.97	ppm		
87)	Pyrene	15.191	202	42083482m	3894.59	ppm		
89)	Butylbenzylphthalate	16.464	149	5898	1.12	ppm	#	57
91)	Benzo[a]anthracene	17.619	228	10468165	1329.86	ppm		97
92)	Chrysene	17.721	228	8663682	1162.82	ppm		96
95)	Di-n-octylphthalate	19.005	149	7943	0.81	ppm	#	11
96)	Benzo[b]fluoranthene	19.705	252	933010m	161.98	ppm		
97)	Benzo[k]fluoranthene	19.759	252	5639148m	1100.93	ppm		
98)	Benzo[a]pyrene	20.390	252	3009370	625.42	ppm		95
99)	Indeno[1,2,3-cd]pyrene	22.973	276	1327936	346.99	ppm		96
100)	Dibenz[a,h]anthracene	22.979	278	545407	169.67	ppm	#	71
101)	Benzo[g,h,i]perylene	23.706	276	932470	302.19	ppm		96

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

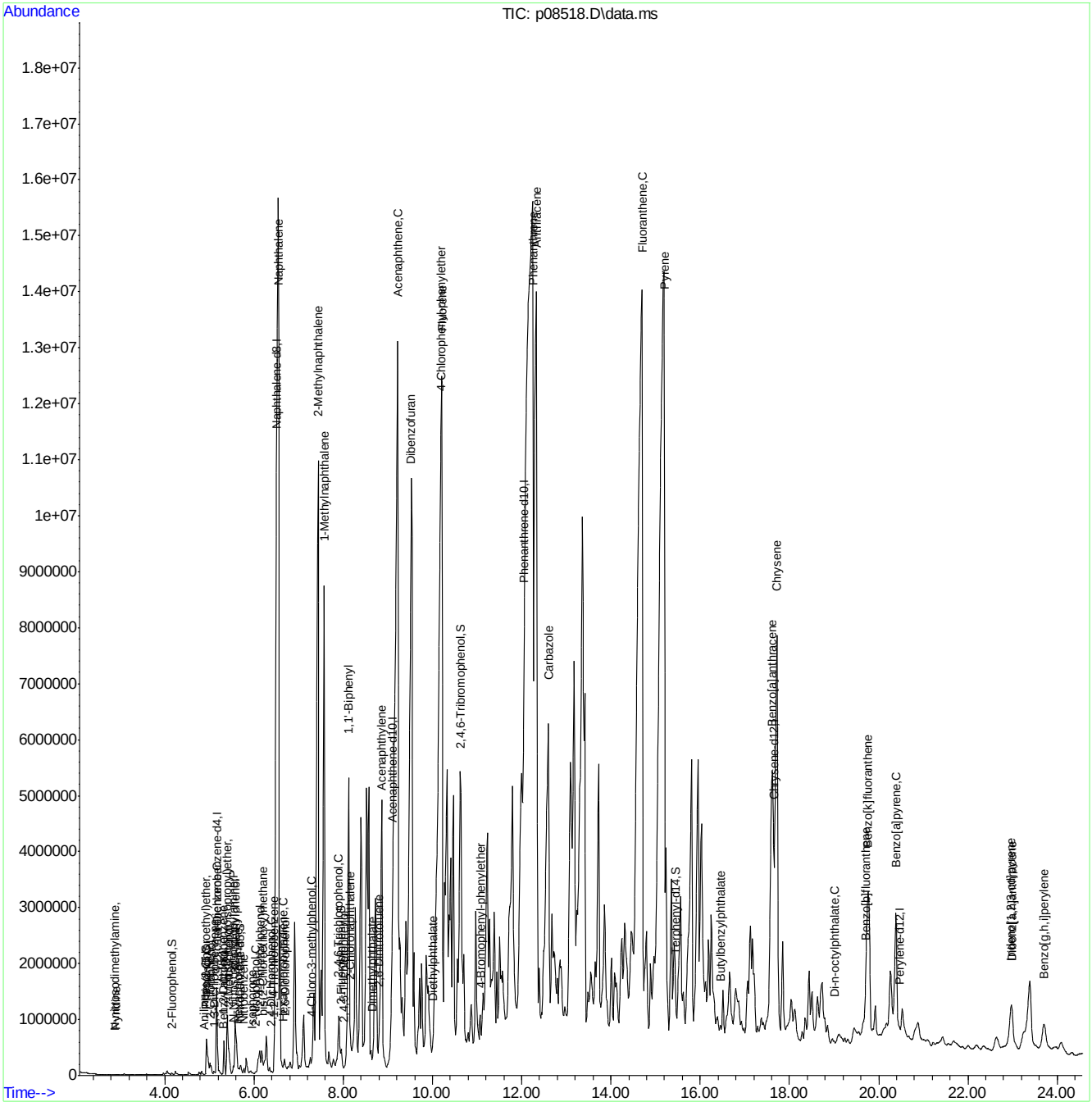
8.4.2

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

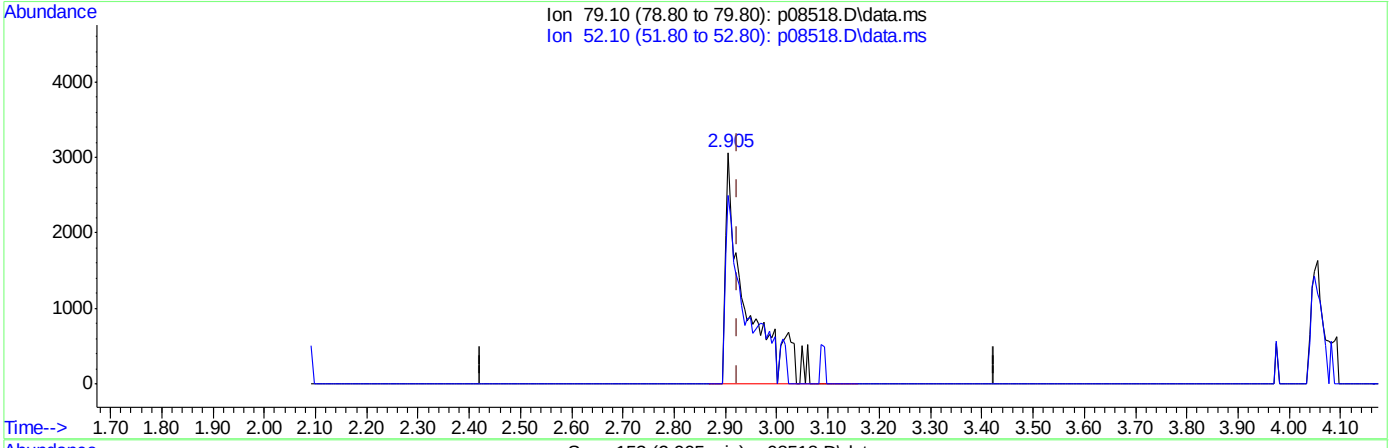
Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

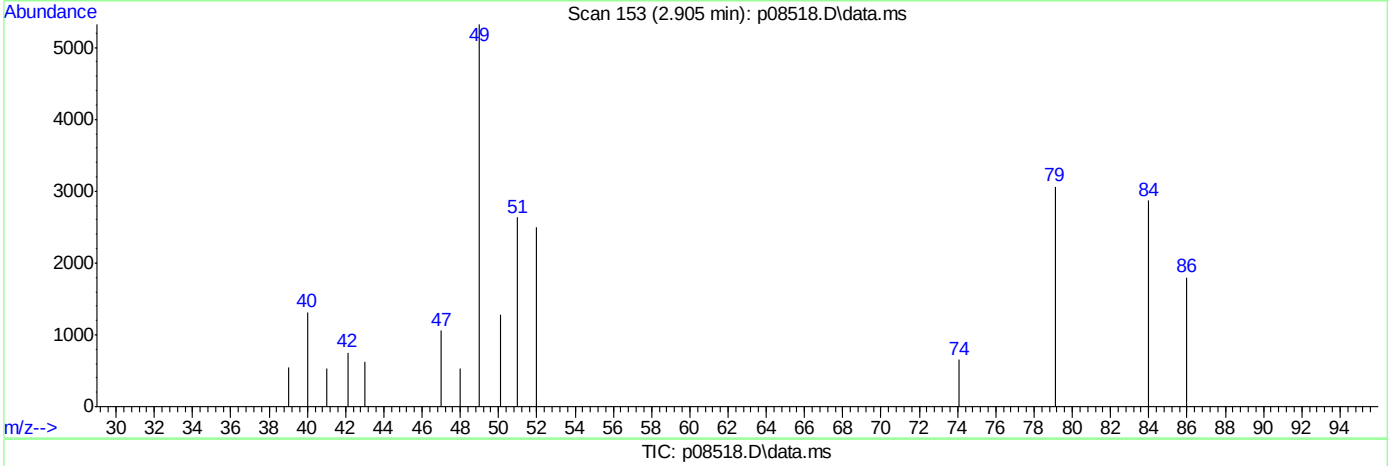


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(5) Pyridine ( )

2.905min (-0.018) 0.46ppm m

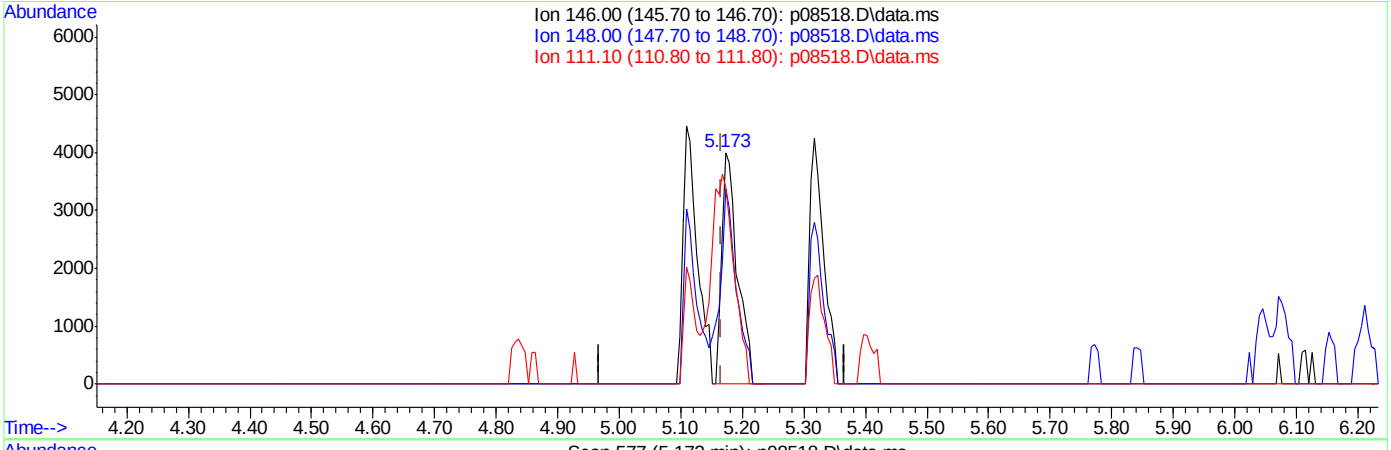
response 8604

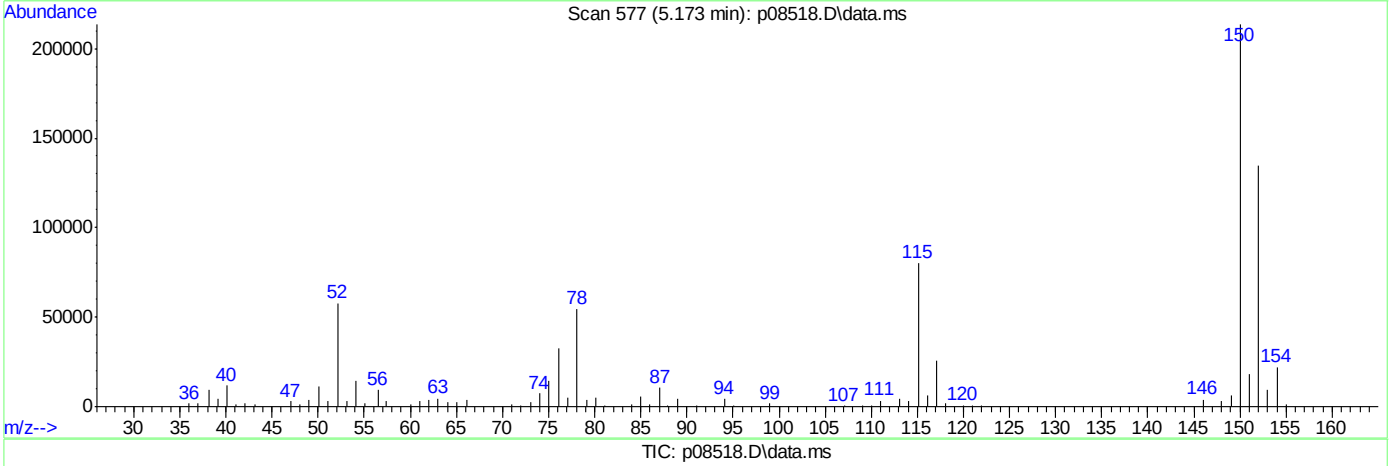
Ion	Exp%	Act%
79.10	100	100
52.10	94.10	58.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(16) 1,4-Dichlorobenzene (C)

5.173min (+0.006) 0.35ppm m

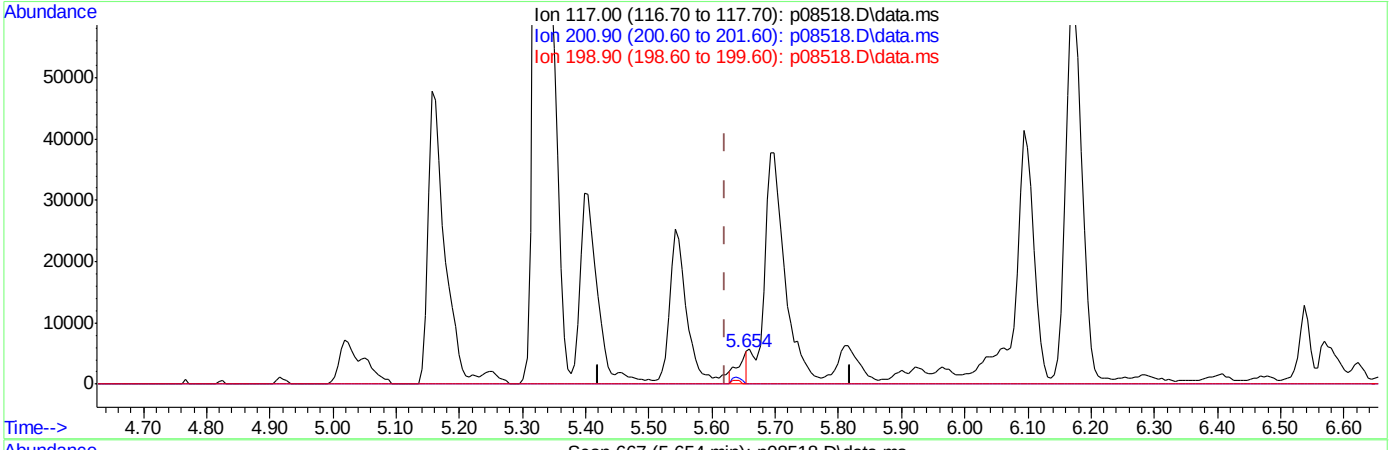
response 6941

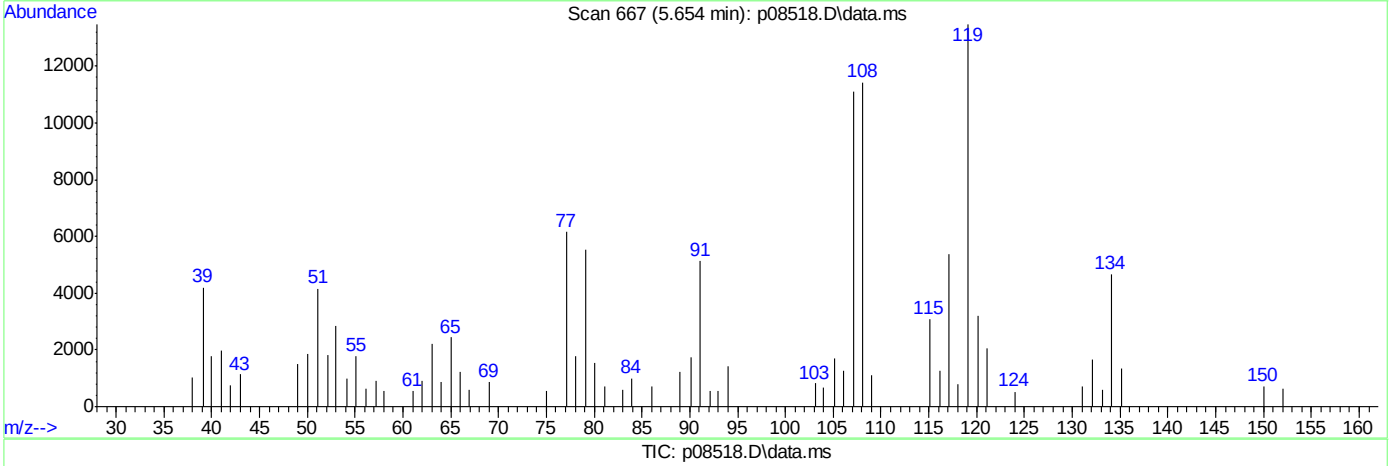
Ion	Exp%	Act%
146.00	100	100
148.00	62.40	64.64
111.10	40.80	36.75
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(22) Hexachloroethane ( )

5.654min (+0.034) 0.72ppm m

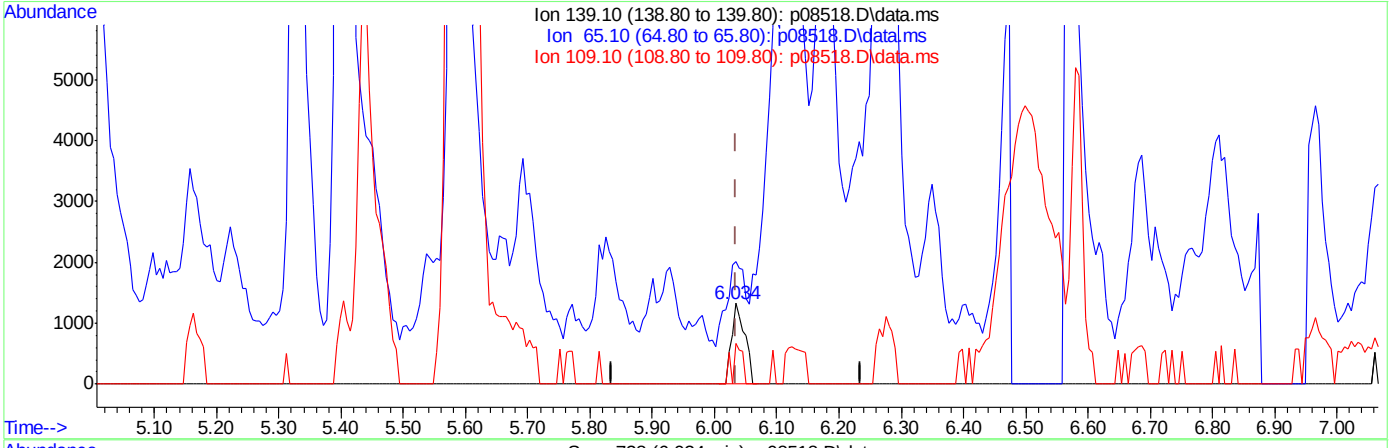
response 5659

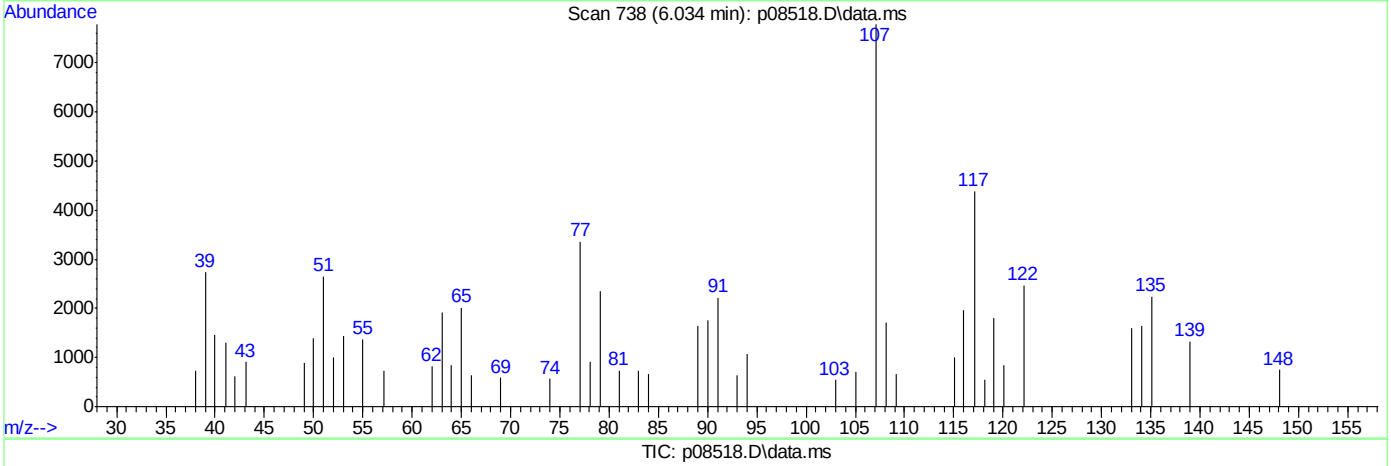
Ion	Exp%	Act%
117.00	100	100
200.90	90.40	0.00#
198.90	57.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(29) 2-Nitrophenol (C)

6.034min (-0.000) 0.28ppm m

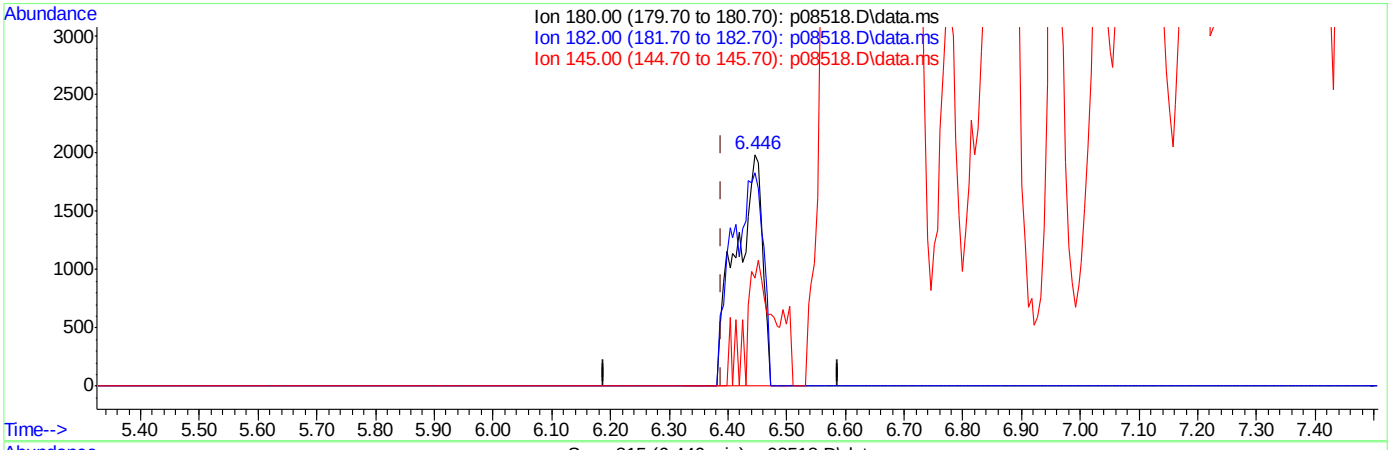
response 1928

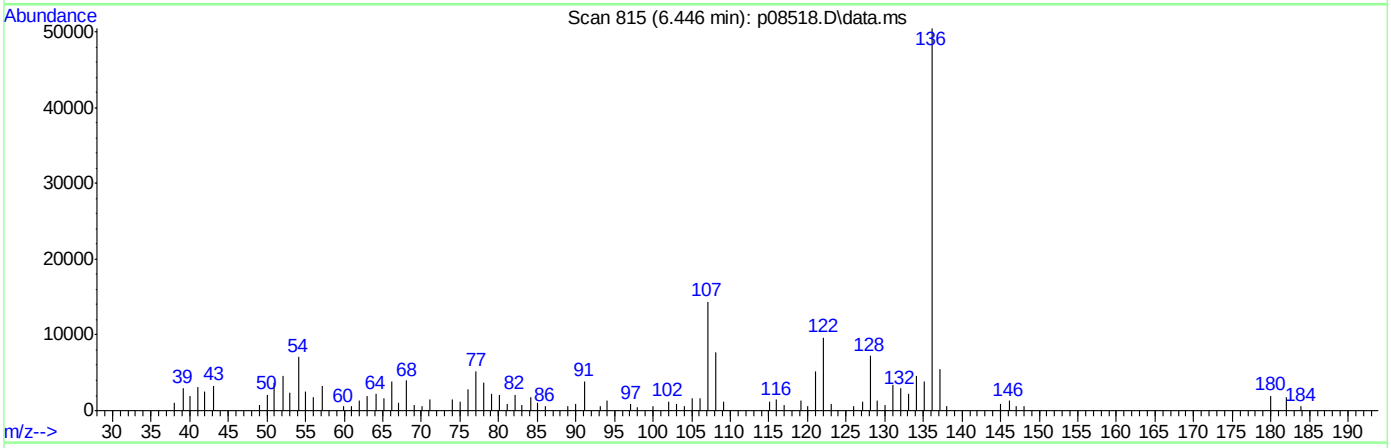
Ion	Exp%	Act%
139.10	100	100
65.10	57.70	0.00#
109.10	30.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08518.D\data.ms

(34) 1,2,4-Trichlorobenzene

6.446min (+0.057) 0.53ppm m

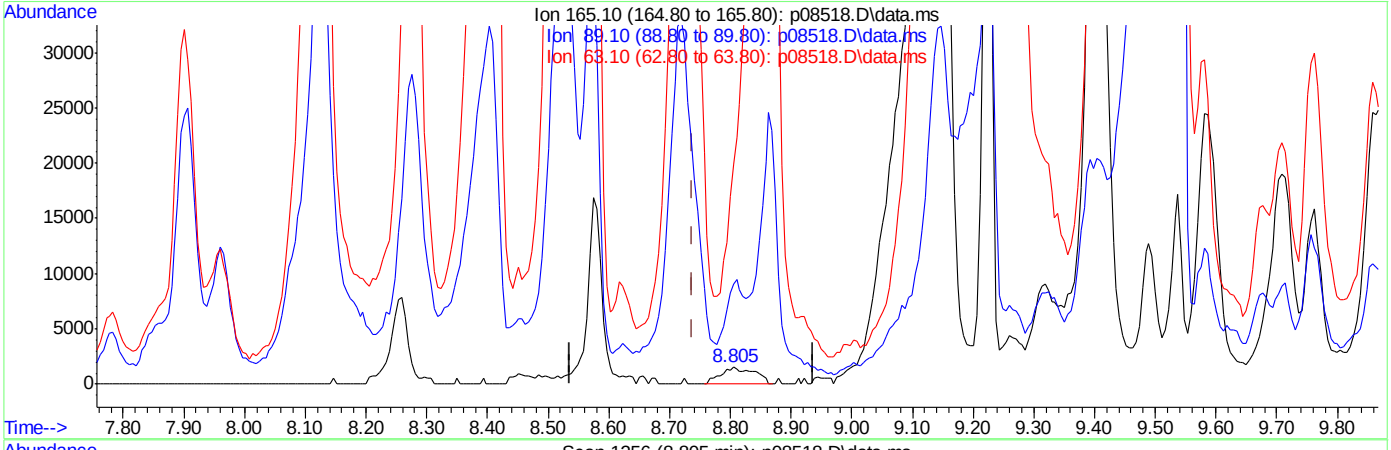
response 6187

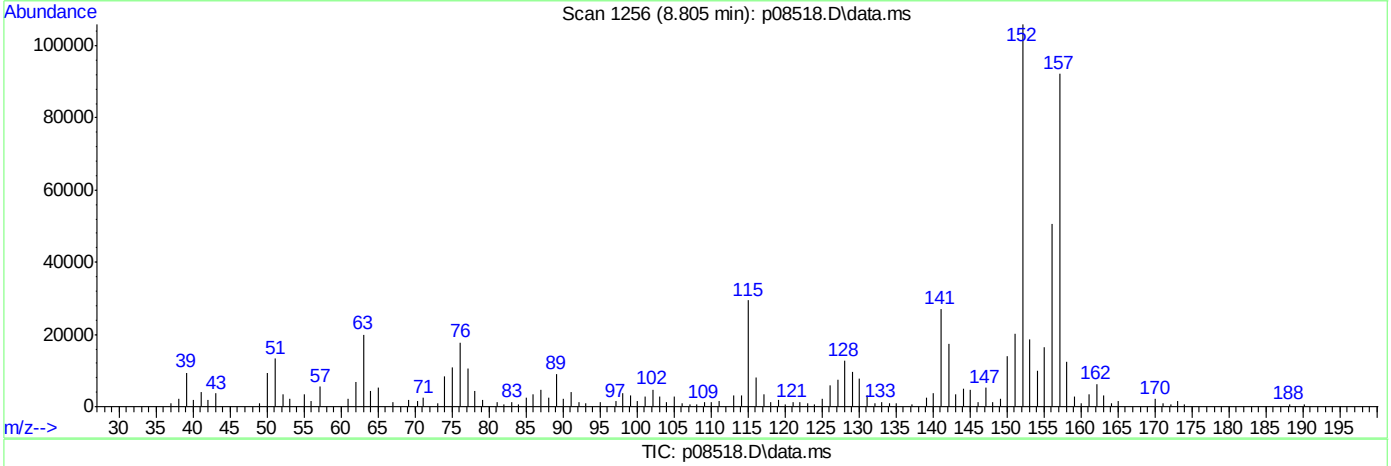
Ion	Exp%	Act%
180.00	100	100
182.00	101.90	39.23#
145.00	32.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(57) 2,6-Dinitrotoluene

8.805min (+0.067) 0.69ppm m

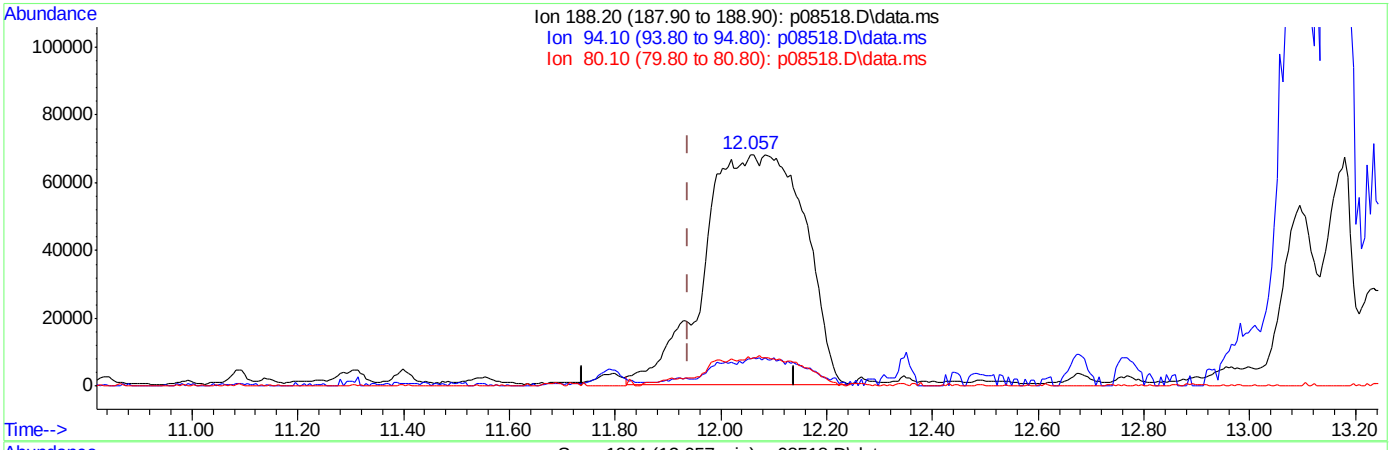
response 5876

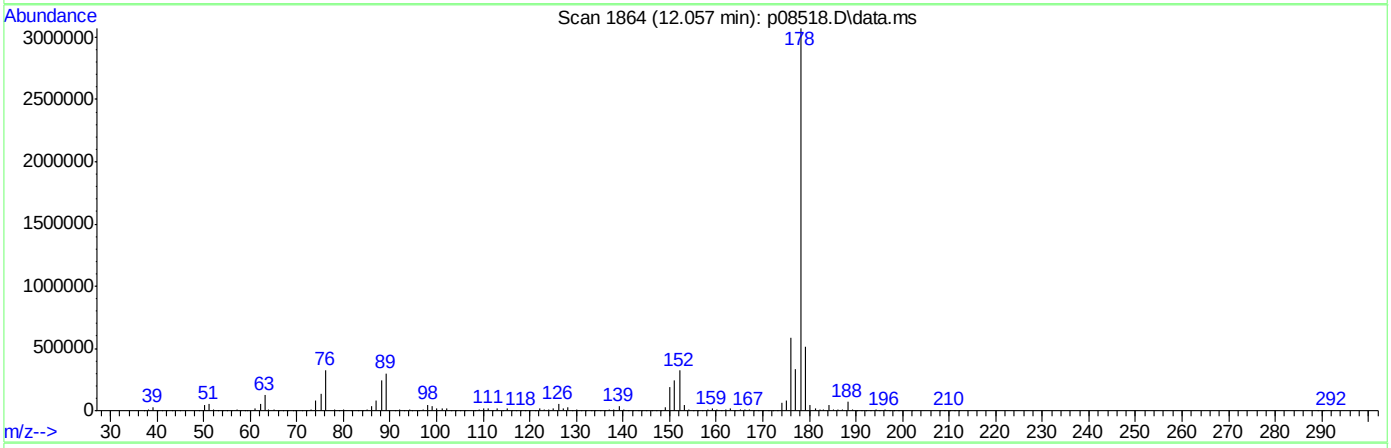
Ion	Exp%	Act%
165.10	100	100
89.10	58.40	273.38#
63.10	66.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08518.D\data.ms

(70) Phenanthrene-d10 (I)

12.057min (+0.118) 40.00ppm m

response 894618

Ion	Exp%	Act%
188.20	100	100
94.10	8.70	0.48
80.10	9.90	0.89
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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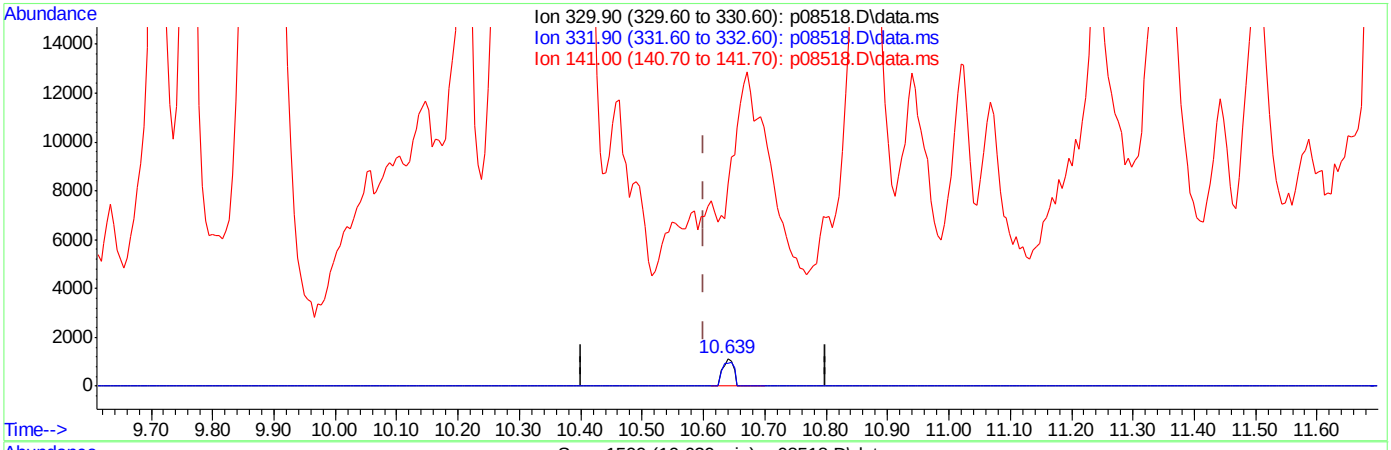
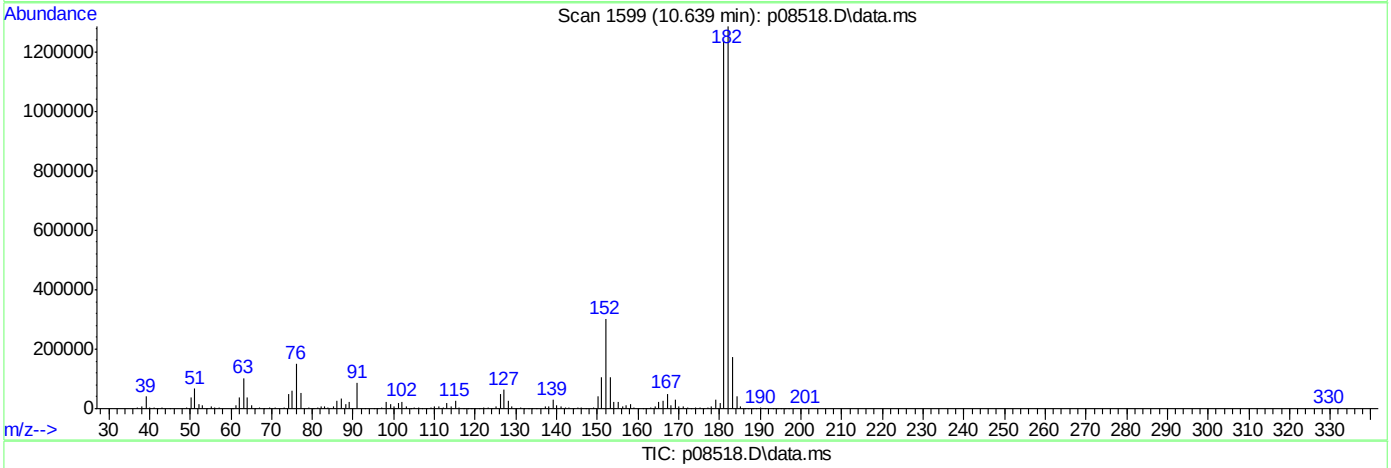




(75) 2,4,6-Tribromophenol (S)

10.639min (+0.039) 0.60ppm m

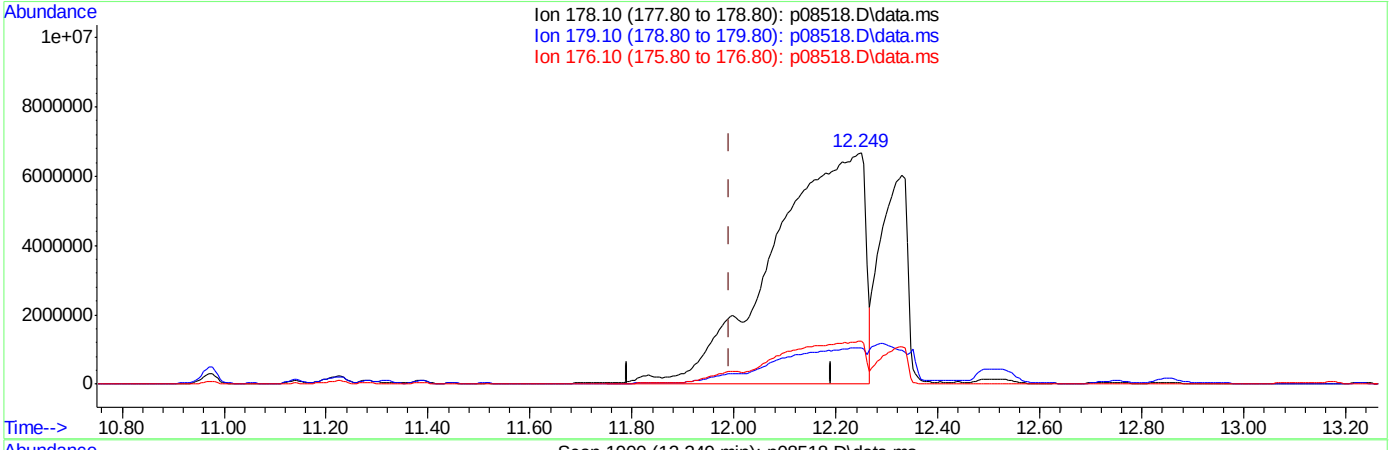
response 1384

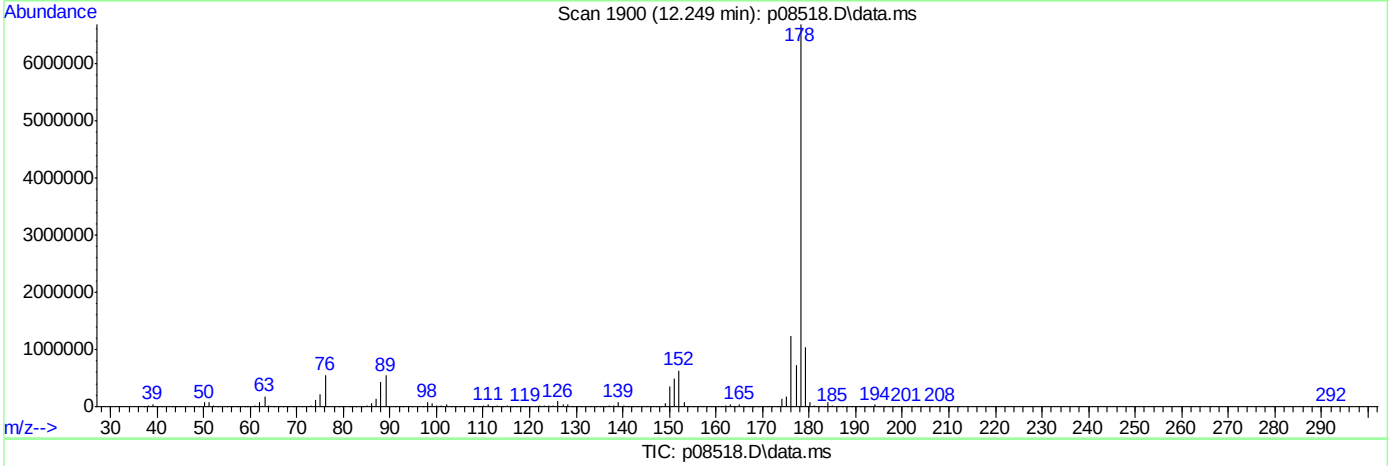
Ion	Exp%	Act%
329.90	100	100
331.90	98.50	0.00#
141.00	37.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(80) Phenanthrene

12.249min (+0.258) 3512.81ppm m

response 83646090

Ion	Exp%	Act%
178.10	100	100
179.10	15.30	1.30
176.10	19.40	1.66
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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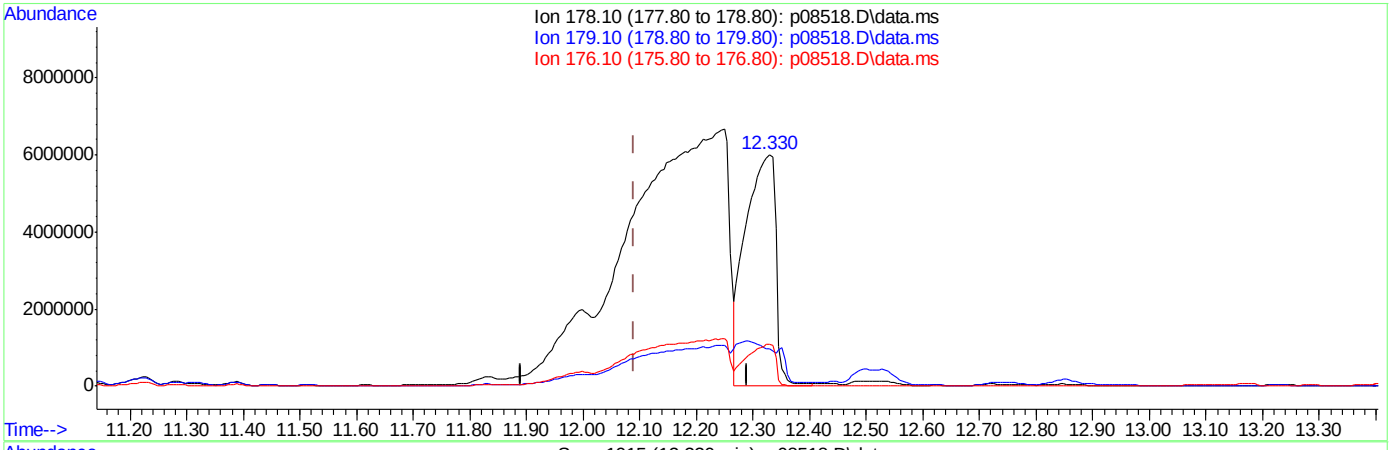
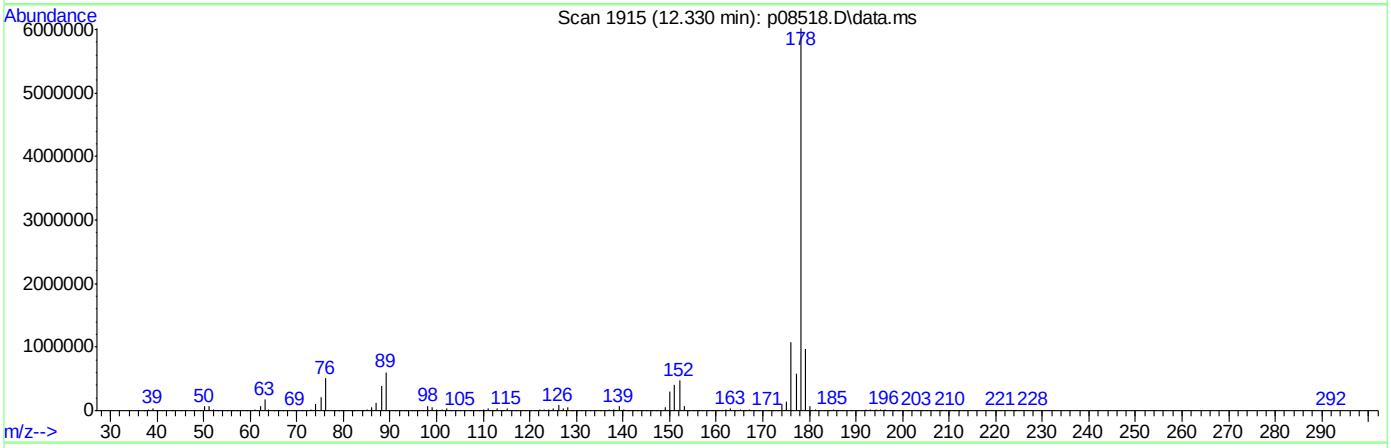




TIC: p08518.D\data.ms

(81) Anthracene

12.330min (+0.238) 870.97ppm m

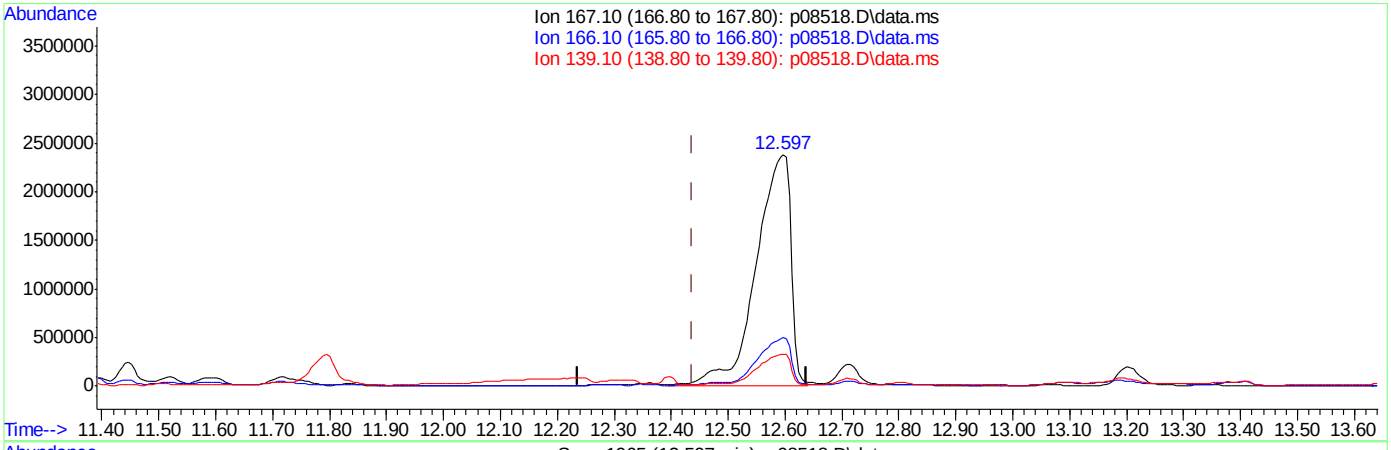
response 22318795

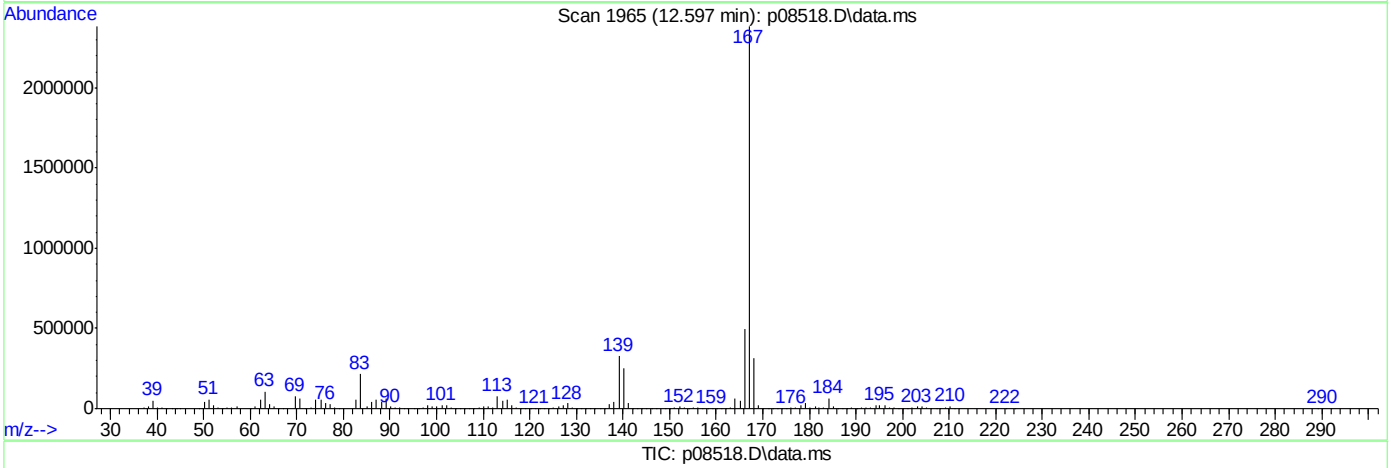
Ion	Exp%	Act%
178.10	100	100
179.10	15.00	4.53
176.10	18.40	5.62
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(82) Carbazole

12.597min (+0.159) 435.75ppm m

response 10074749

Ion	Exp%	Act%
167.10	100	100
166.10	20.00	0.75
139.10	13.30	0.54
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
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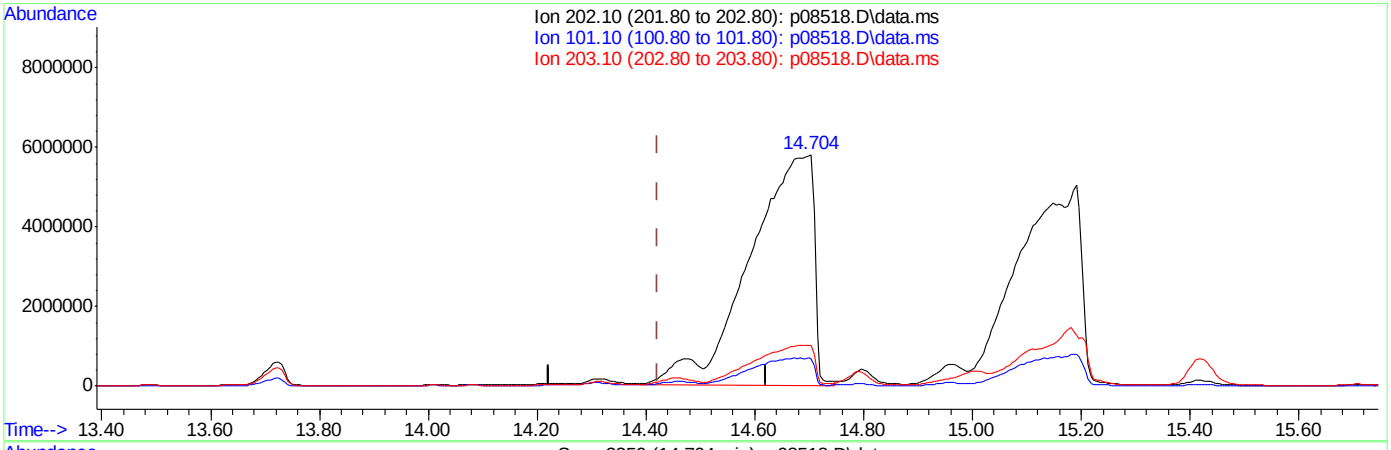
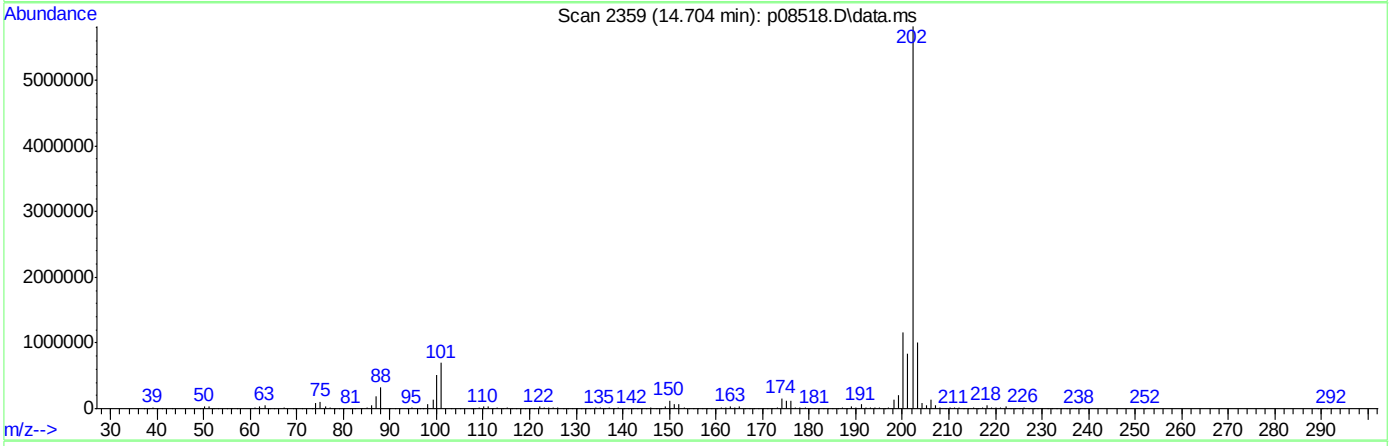
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(84) Fluoranthene (C)

14.704min (+0.282) 1799.97ppm m

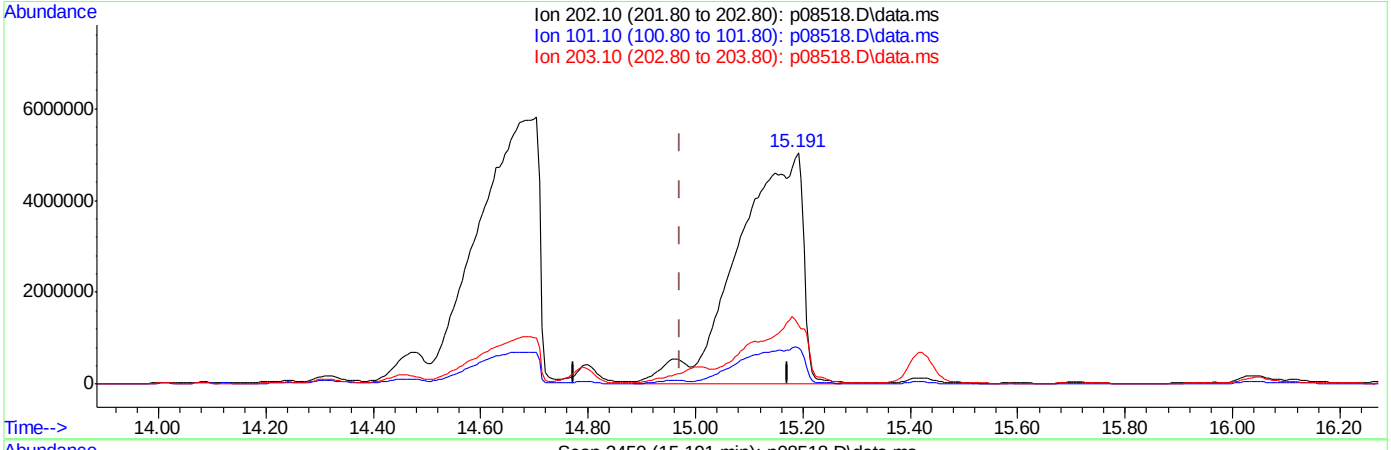
response 47530672

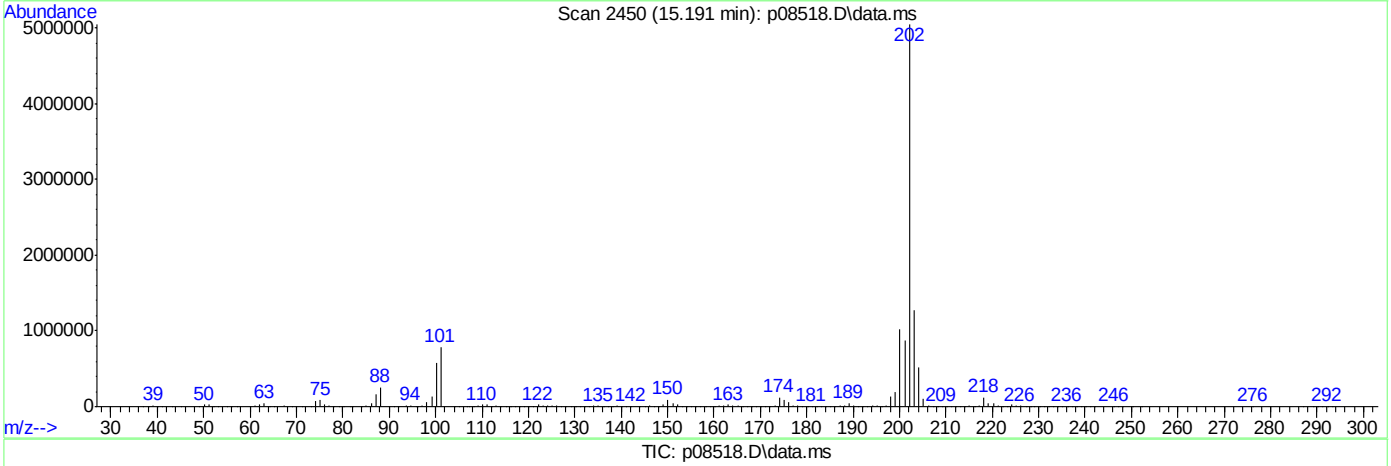
Ion	Exp%	Act%
202.10	100	100
101.10	13.10	0.00
203.10	17.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(87) Pyrene

15.191min (+0.218) 3894.59ppm m

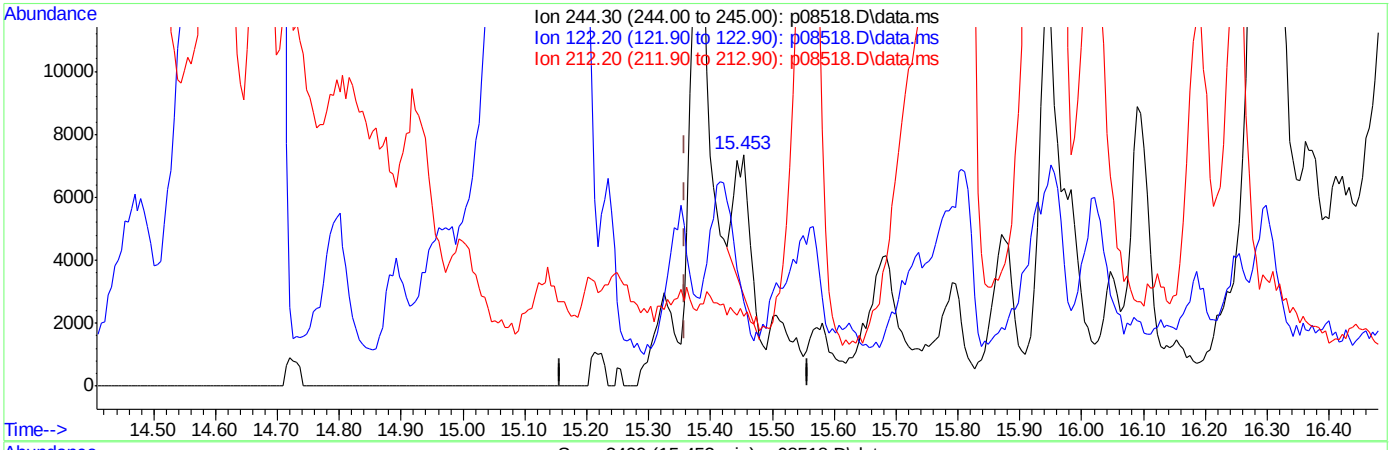
response 42083482

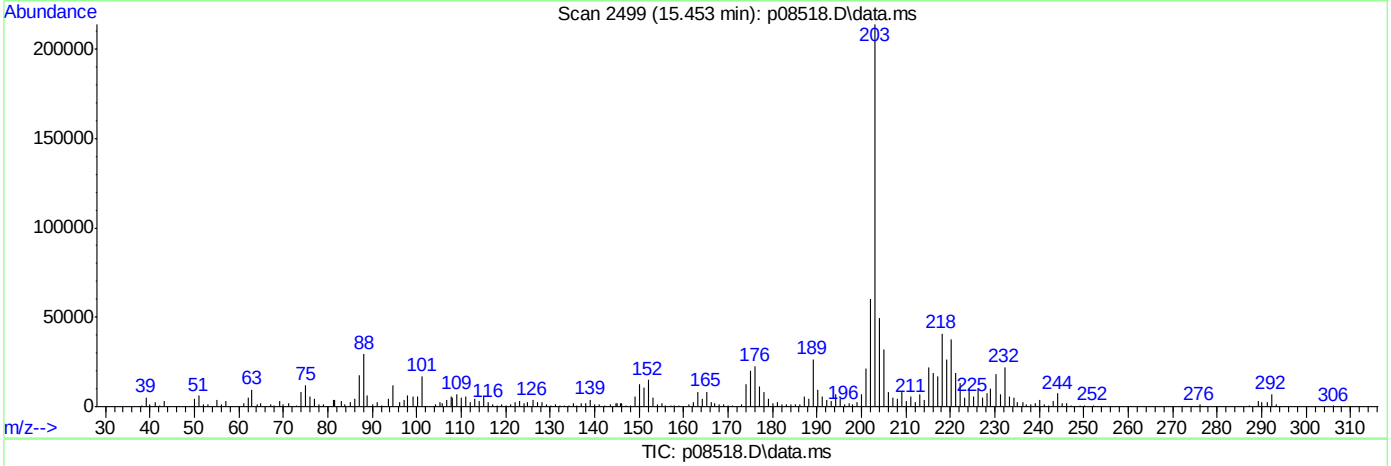
Ion	Exp%	Act%
202.10	100	100
101.10	15.70	0.00
203.10	17.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On    :  4 Feb 2010   5:49 pm
Operator  : garyj
Sample    : op13984-msd, (x4, 20ml)
Misc      : op13984,Ep404,30.51,,,20,4,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





TIC: p08518.D\data.ms

(88) Terphenyl-d14 (S)

15.453min (+0.095) 1.01ppm m

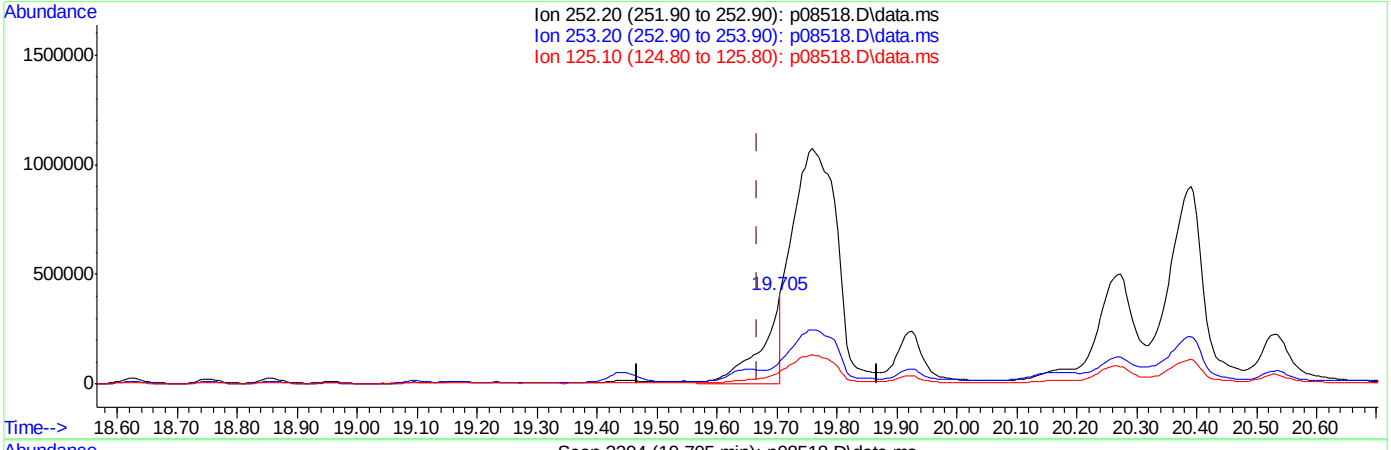
response 6667

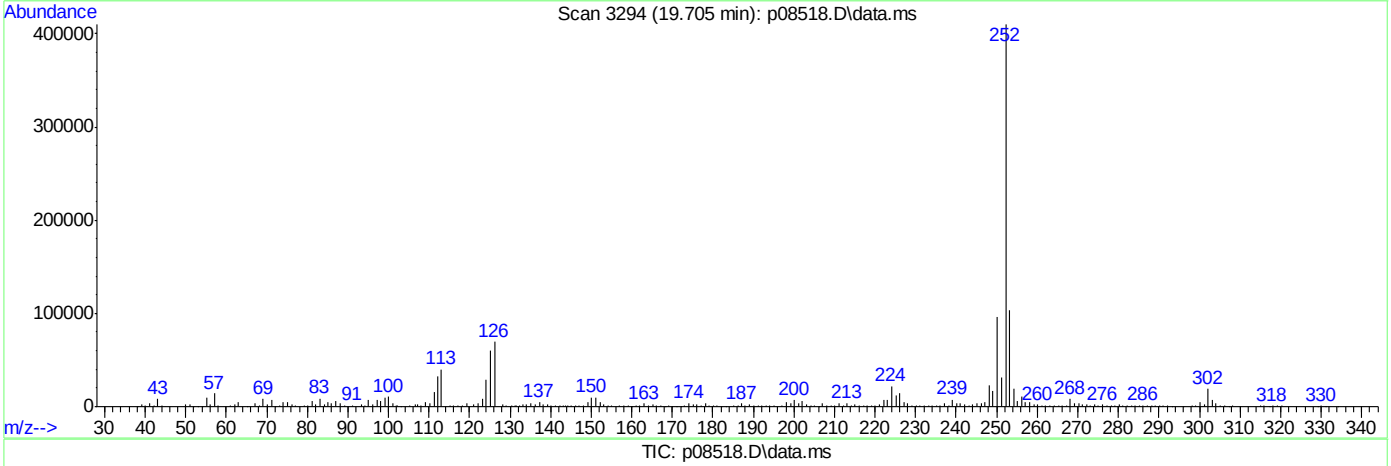
Ion	Exp%	Act%
244.30	100	100
122.20	12.10	0.00
212.20	7.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08518.D\data.ms

(96) Benzo[b]fluoranthene

19.705min (+0.037) 161.98ppm m

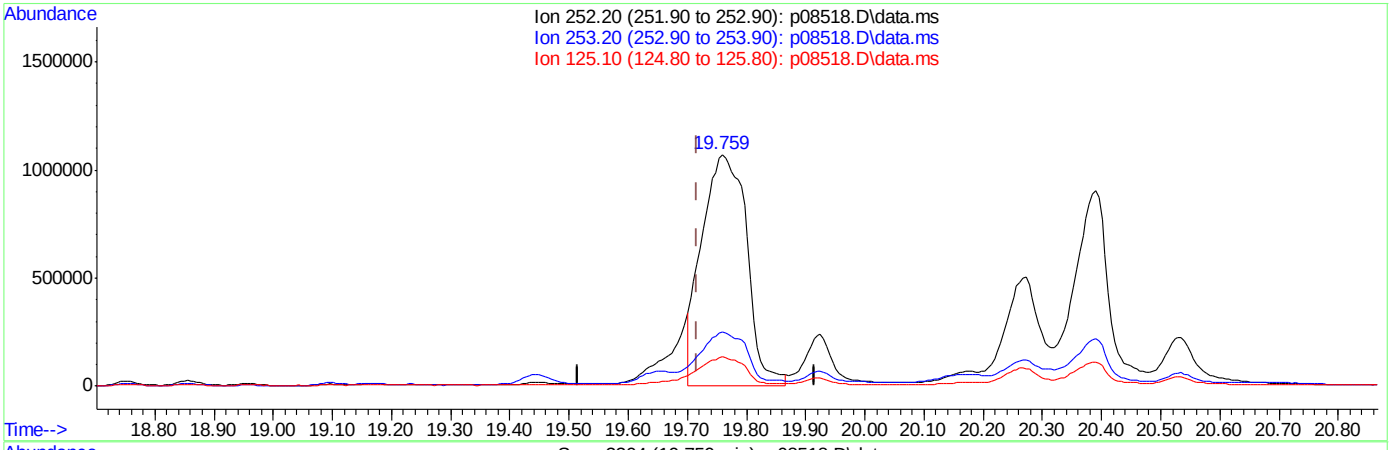
response 933010

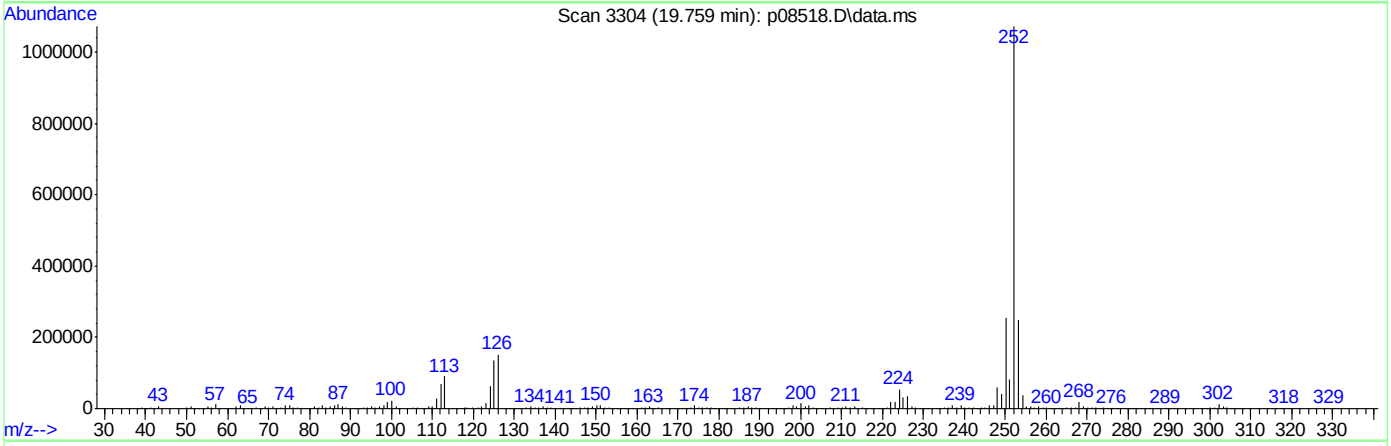
Ion	Exp%	Act%
252.20	100	100
253.20	22.40	127.21#
125.10	10.40	80.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08518.D
Acq On : 4 Feb 2010 5:49 pm
Operator : garyj
Sample : op13984-msd, (x4, 20ml)
Misc : op13984,Ep404,30.51,,,20,4,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 09:49:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08518.D\data.ms

(97) Benzo[k]fluoranthene

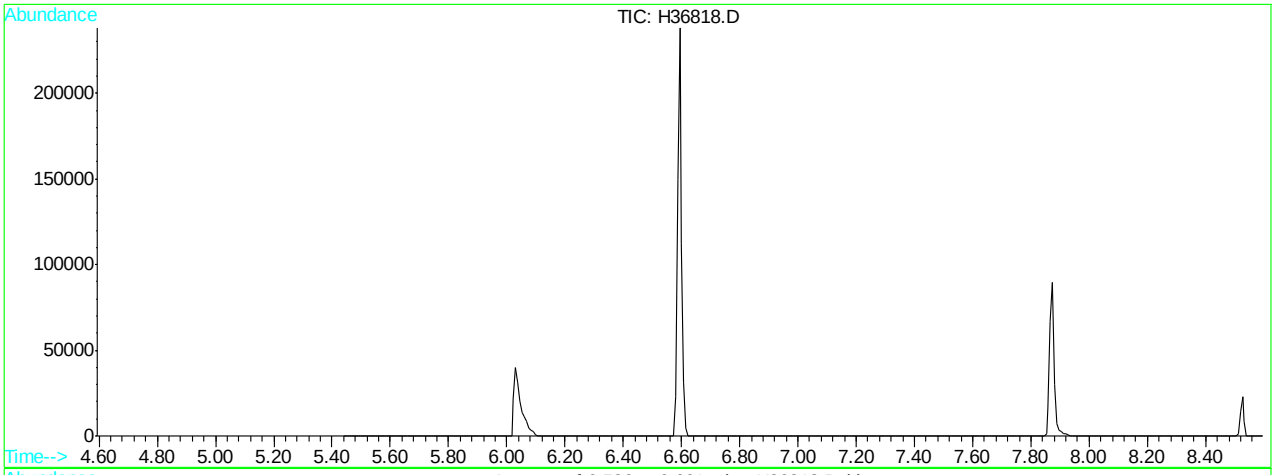
19.759min (+0.043) 1100.93ppm m

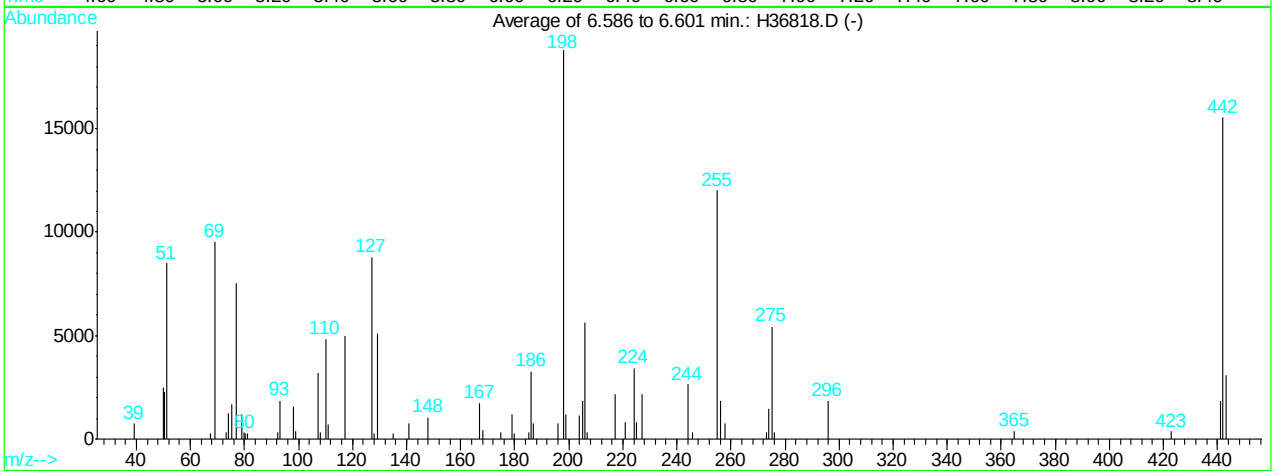
response 5639148

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	21.05
125.10	10.30	12.68
0.00	0.00	0.00

DFTPP

```
Data File : C:\HPCHEM\1\DATA\EH1975\H36818.D            Vial: 1
Acq On    :  3 Feb 2010  11:54 am                   Operator: sheilac
Sample    : dftpp                                   Inst    : TXMSH
Misc      : OP13411,EH1975,1000,,,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 156, 157, 158; Background Corrected with Scan 152

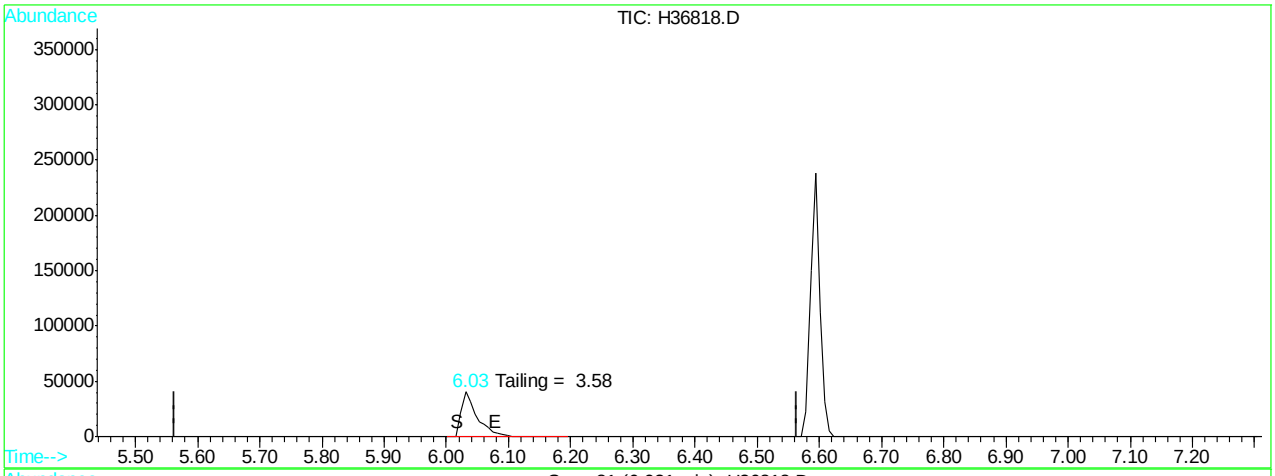
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.2	8482	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.6	9511	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	46.8	8792	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	18782	PASS
199	198	5	9	6.5	1218	PASS
275	198	10	30	29.0	5444	PASS
365	198	1	100	2.1	392	PASS
441	443	0.01	100	60.0	1859	PASS
442	198	40	100	82.8	15548	PASS
443	442	17	23	19.9	3096	PASS

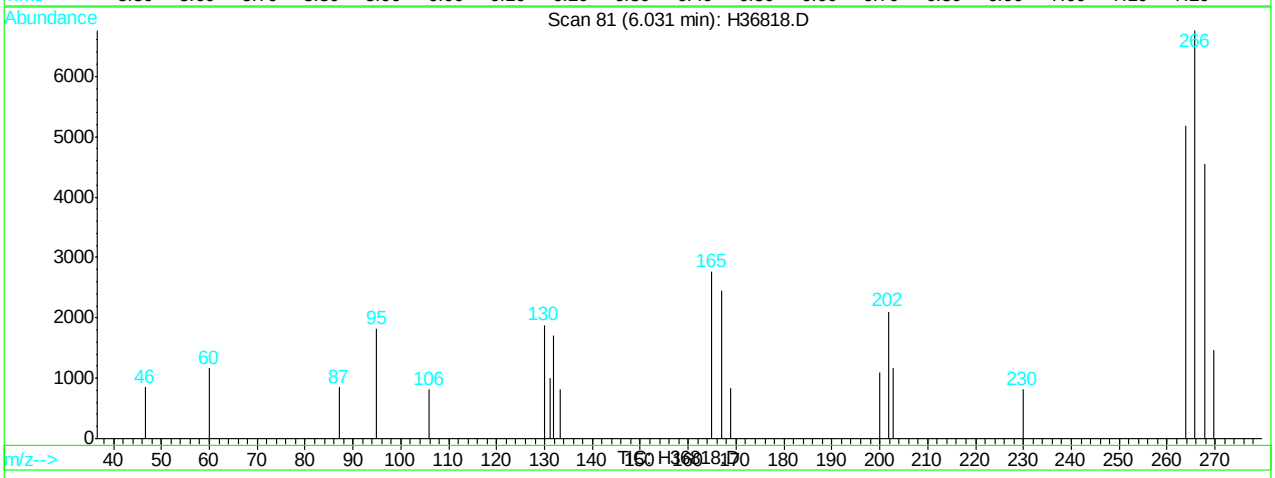
H36818.D DFTPP.M Wed Feb 03 12:05:59 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36818.D Vial: 1
Acq On : 3 Feb 2010 11:54 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 3 12:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Wed Dec 16 11:49:56 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

6.03min 0.00

response 70256

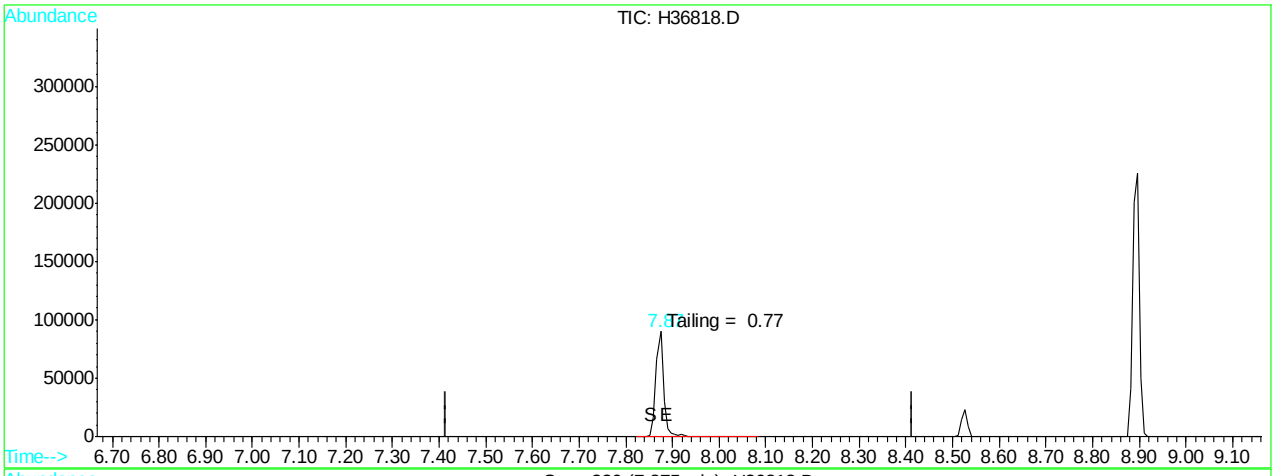
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H36818.D DFTPP.M Wed Feb 03 12:06:33 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36818.D Vial: 1
Acq On : 3 Feb 2010 11:54 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 3 12:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Wed Dec 16 11:49:56 2009
Response via : Single Level Calibration



(3) Benzidine

7.87min 0.00

response 97917

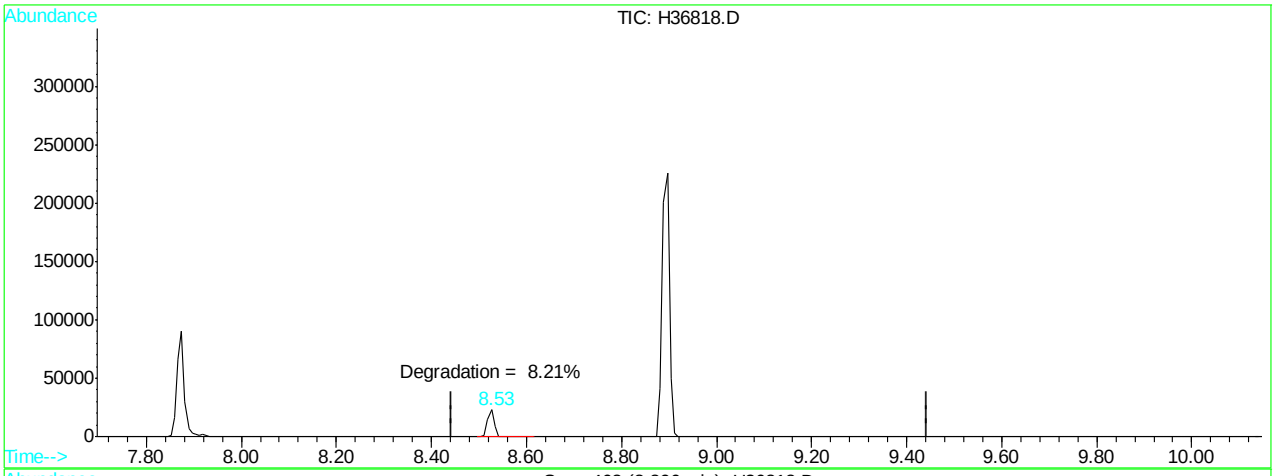
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

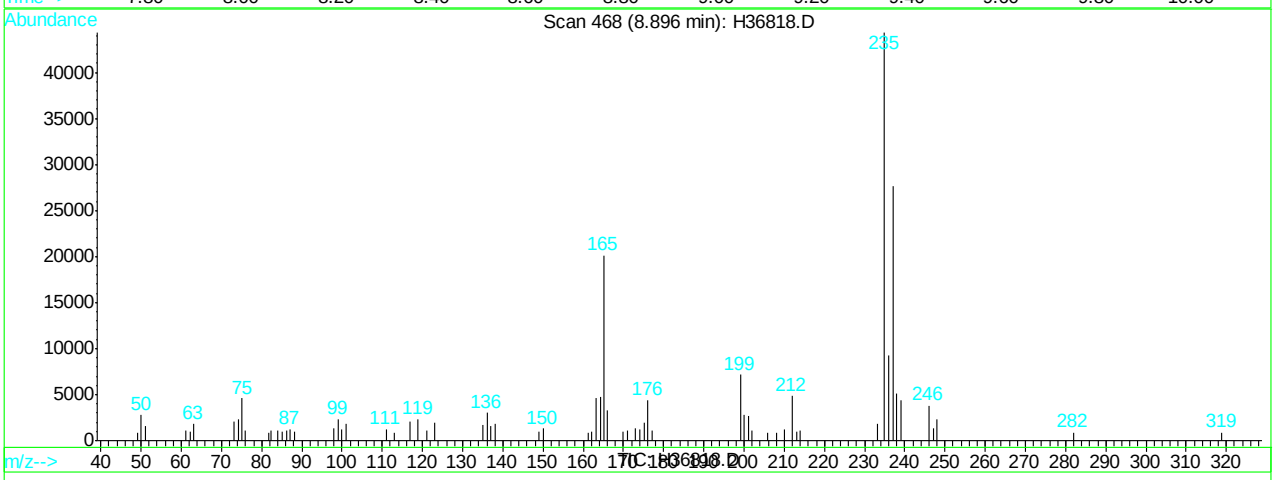
H36818.D DFTPP.M Wed Feb 03 12:06:40 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36818.D Vial: 1
Acq On : 3 Feb 2010 11:54 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Feb 3 12:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Wed Dec 16 11:49:56 2009
Response via : Single Level Calibration





(4) DDT

8.90min 0.00

response 231305

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

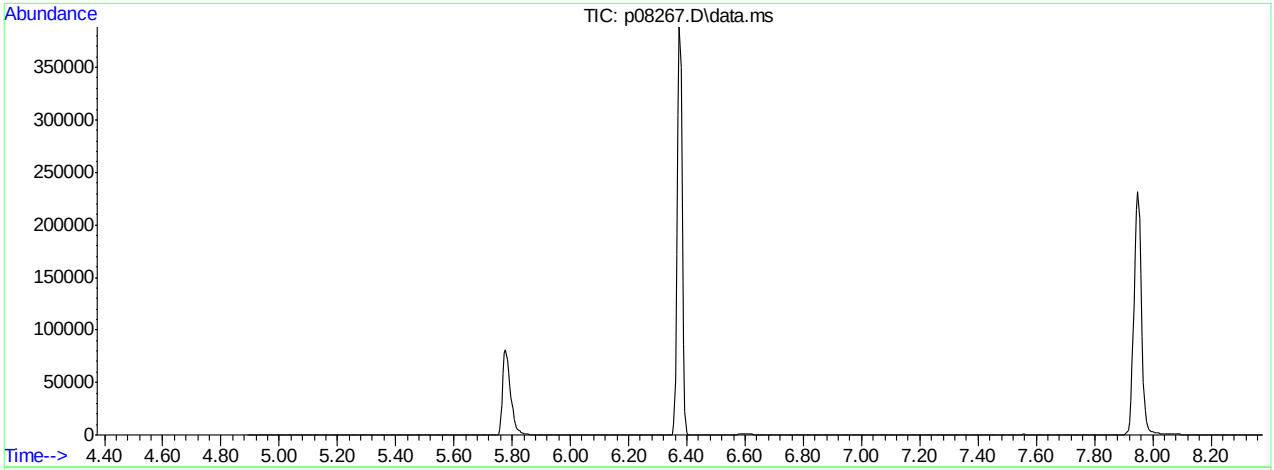
H36818.D DFTPP.M Wed Feb 03 12:06:48 2010

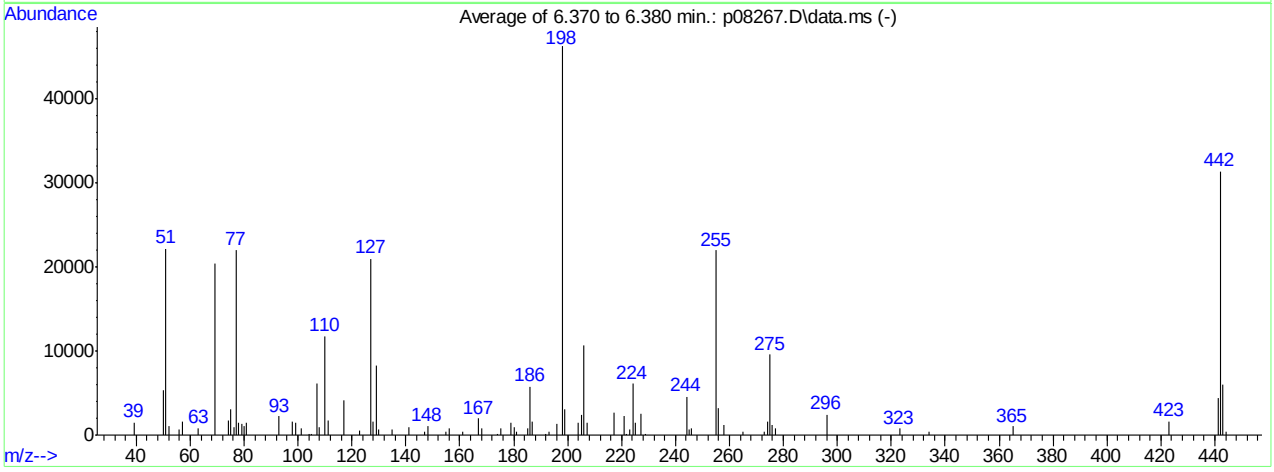
DFTPP

Data File : C:\msdchem\1\DATA\ep393\p08267.D
Acq On : 22 Jan 2010 9:08 am
Sample : dftpp
Misc : op13254,Ep393,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: garyj
Inst : GCMS P
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.M (RTE Integrator)
Title :





AutoFind: Scans 308, 309, 310; Background Corrected with Scan 302

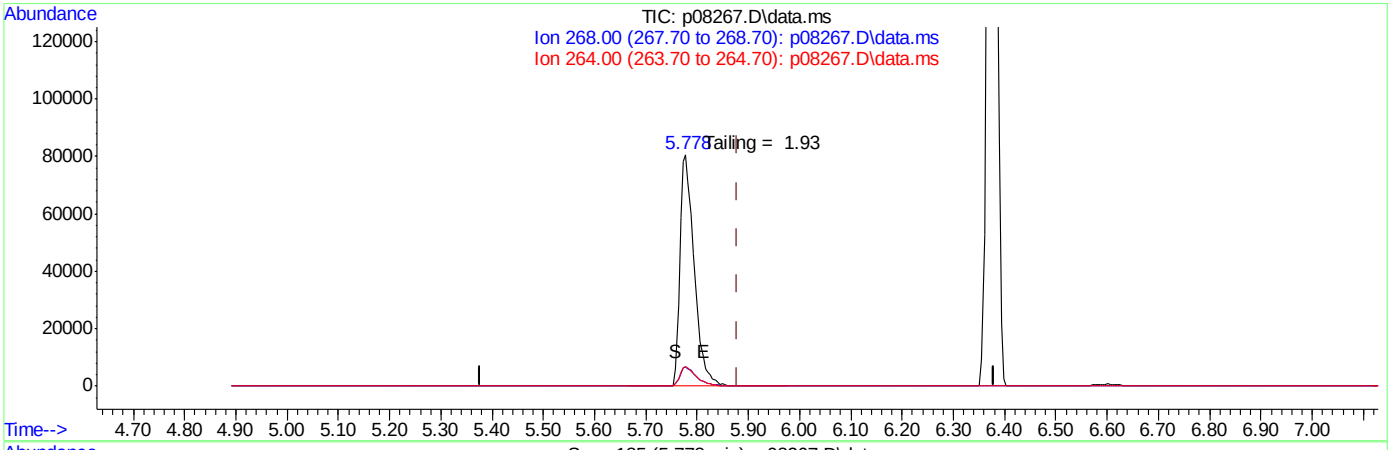
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.0	22181	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.0	20331	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.4	20955	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	46173	PASS
199	198	5	9	6.7	3114	PASS
275	198	10	30	20.7	9568	PASS
365	198	1	100	2.3	1052	PASS
441	443	0.01	100	73.3	4423	PASS
442	198	40	100	67.9	31357	PASS
443	442	17	23	19.2	6030	PASS

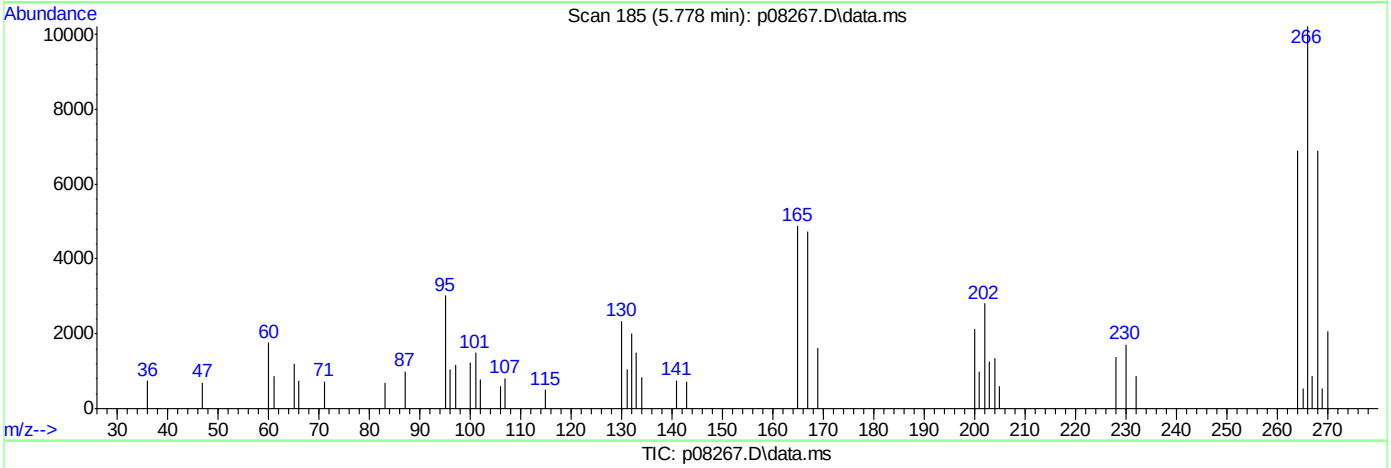
p08267.D dftpp.M Fri Jan 22 09:14:36 2010

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08267.D
Acq On : 22 Jan 2010 9:08 am
Operator : garyj
Sample : dftpp
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 22 09:14:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title :
QLast Update : Tue Jan 19 10:18:53 2010
Response via : Initial Calibration





TIC: p08267.D\data.ms

(1) Pentachlorophenol

5.778min (-0.101) 0.00

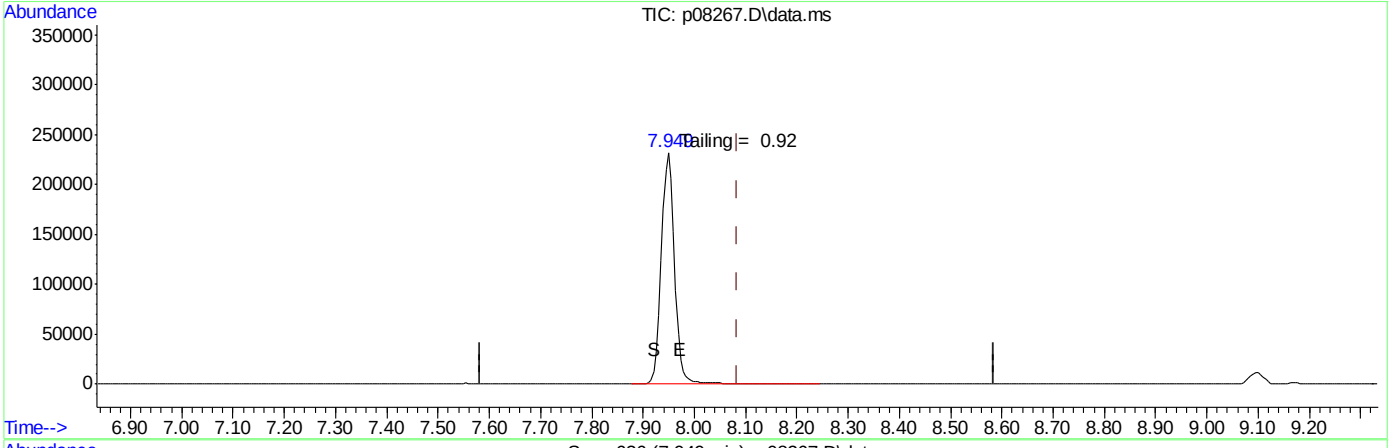
response 155340

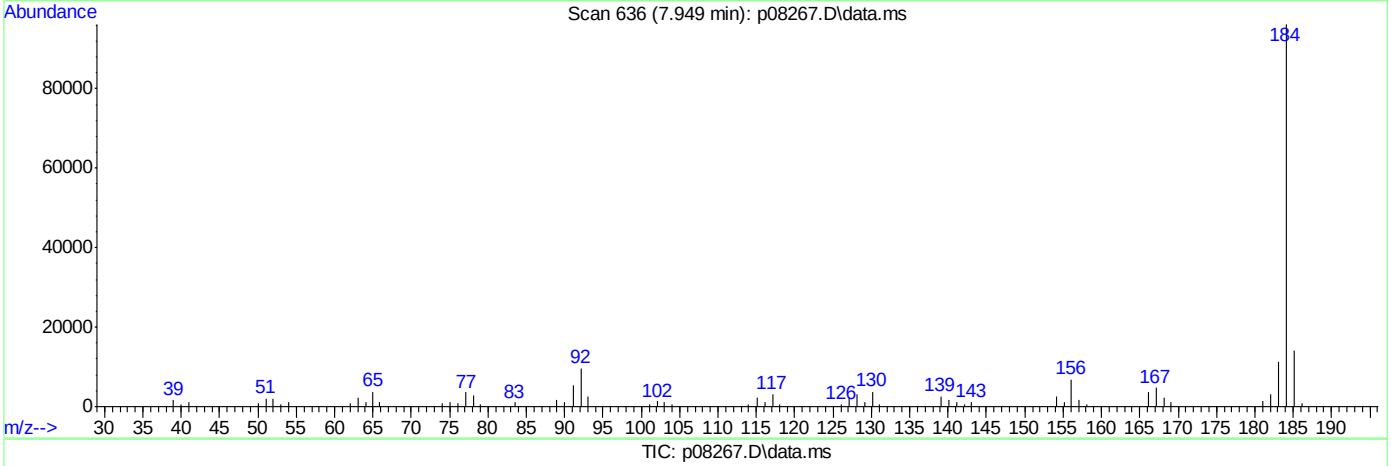
Signal	Exp%	Act%
TIC	100	100
268.00	845.40	9.74#
264.00	854.80	9.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08267.D
Acq On    : 22 Jan 2010   9:08 am
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jan 22 09:14:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Tue Jan 19 10:18:53 2010
Response via : Initial Calibration
```





TIC: p08267.D\data.ms

(3) Benzidine

7.949min (-0.135) 0.00

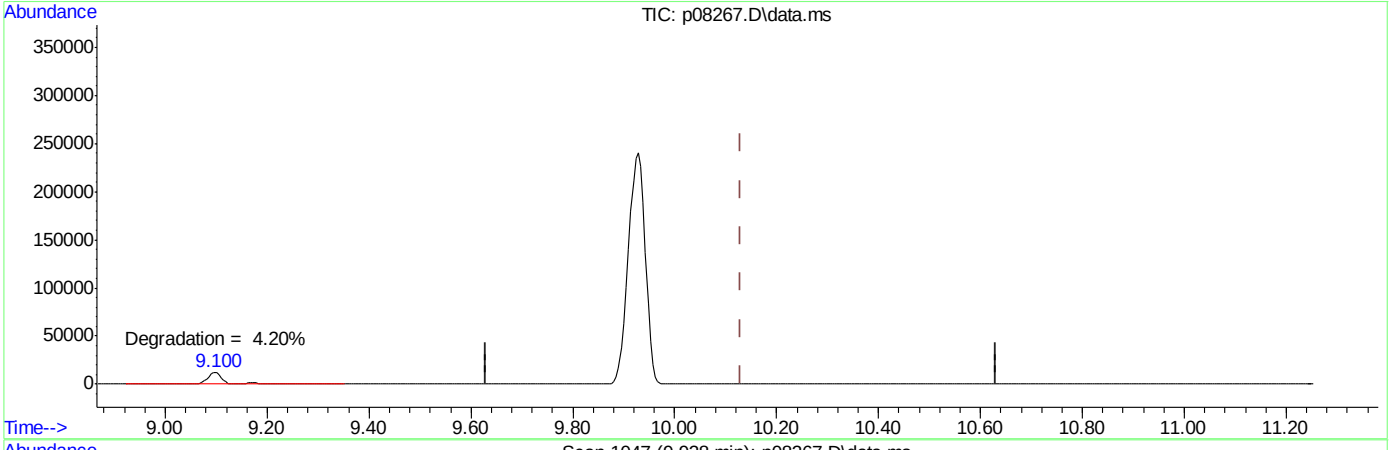
response 420063

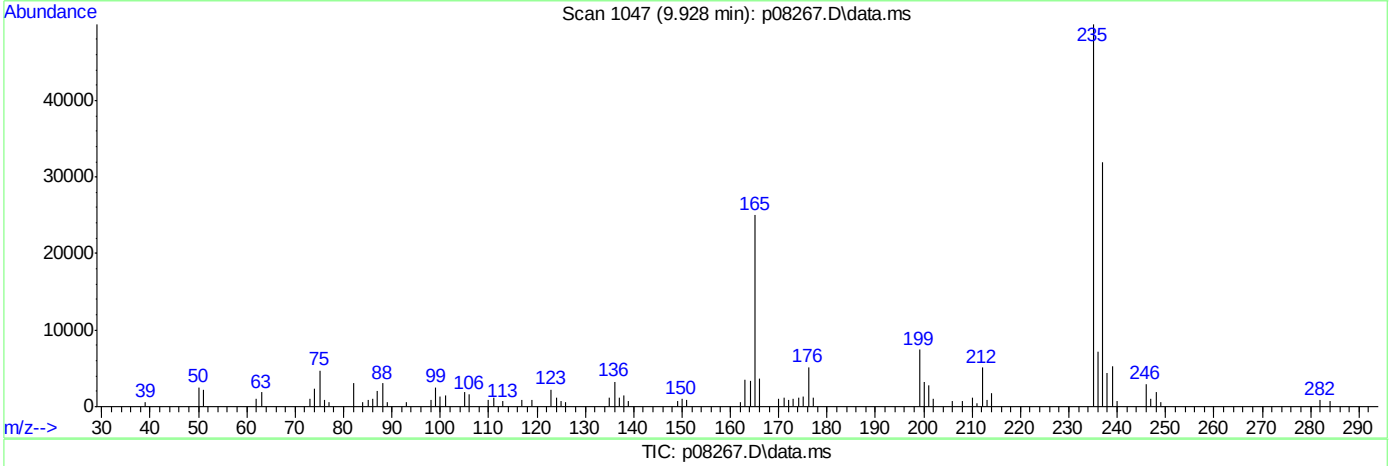
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08267.D
Acq On    : 22 Jan 2010   9:08 am
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jan 22 09:14:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Tue Jan 19 10:18:53 2010
Response via : Initial Calibration
```





TIC: p08267.D\data.ms

(4) DDT

9.928min (-0.202) 0.00

response 563003

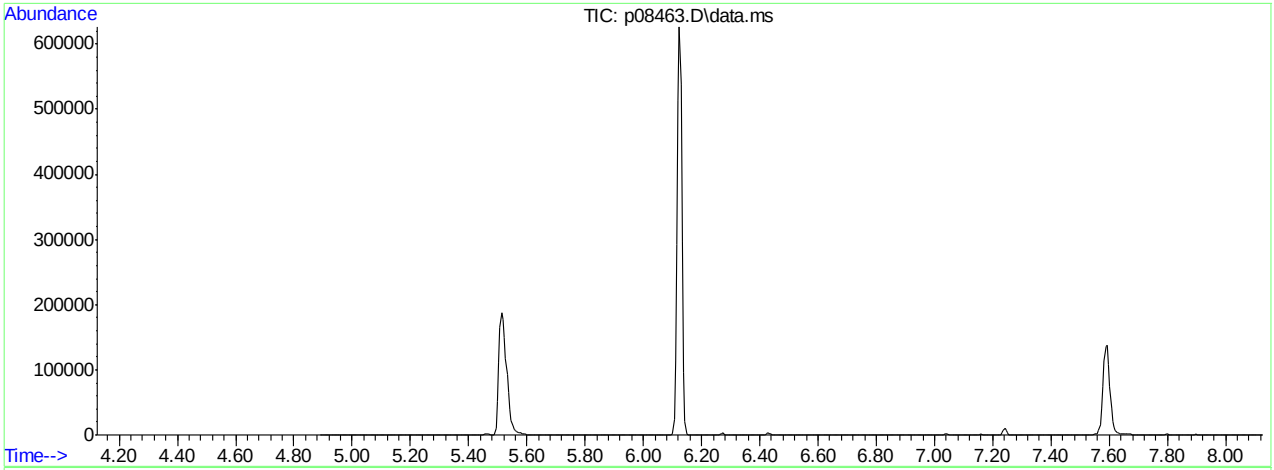
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

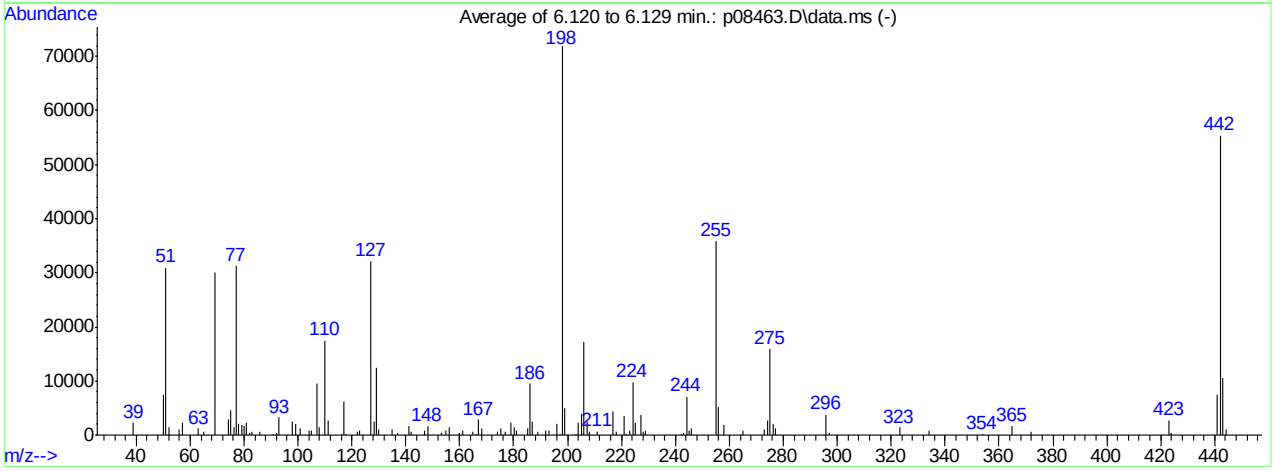
DFTPP

Data File : C:\msdchem\1\DATA\ep402\p08463.D
Acq On : 3 Feb 2010 10:37 am
Sample : dftpp
Misc : op13254,Ep402,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: garyj
Inst : GCMS P
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.M (RTE Integrator)
Title :





AutoFind: Scans 256, 257, 258; Background Corrected with Scan 249

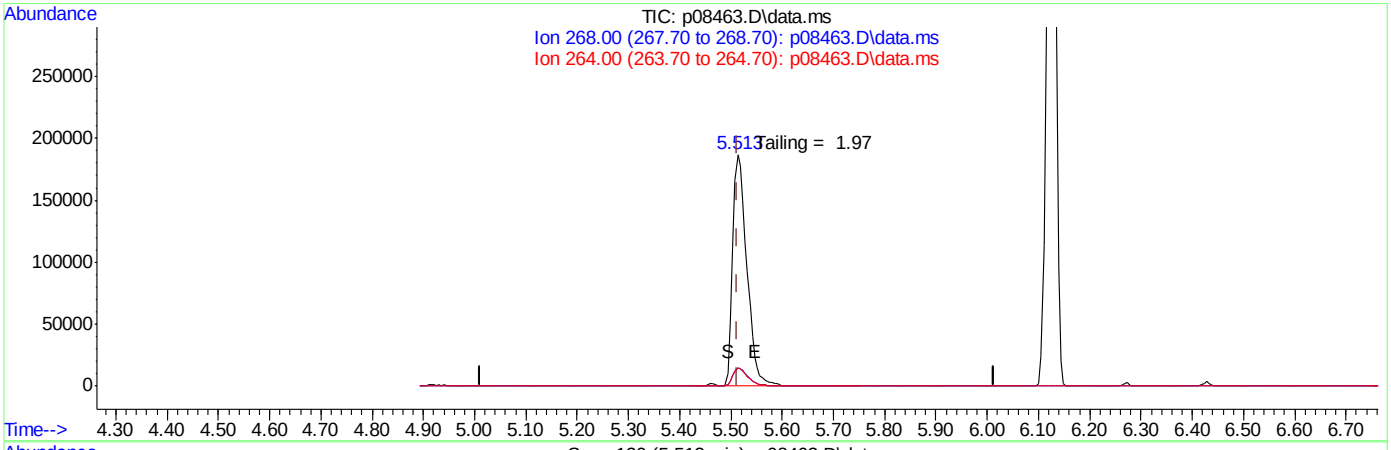
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	30960	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.9	30075	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.9	32224	PASS
197	198	0.00	1	0.2	177	PASS
198	198	100	100	100.0	71837	PASS
199	198	5	9	6.8	4889	PASS
275	198	10	30	22.2	15953	PASS
365	198	1	100	2.3	1677	PASS
441	443	0.01	100	71.1	7485	PASS
442	198	40	100	77.1	55352	PASS
443	442	17	23	19.0	10531	PASS

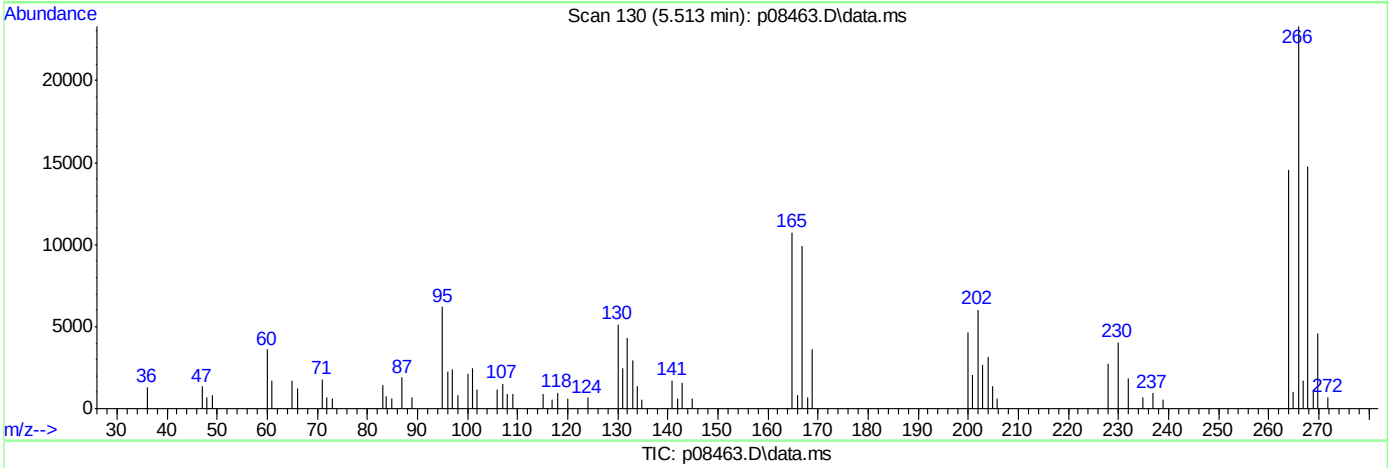
p08463.D dftpp.M Wed Feb 03 10:44:28 2010

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08463.D
Acq On    :  3 Feb 2010  10:37 am
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep402,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Feb 03 10:44:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration
```





TIC: p08463.D\data.ms

(1) Pentachlorophenol

5.513min (0.000) 0.00

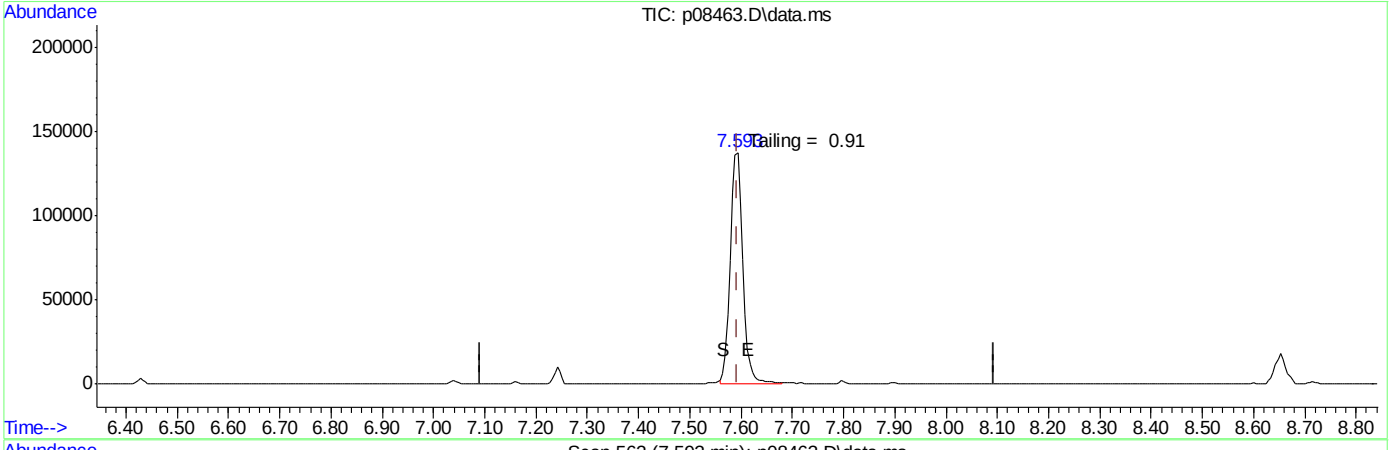
response 359428

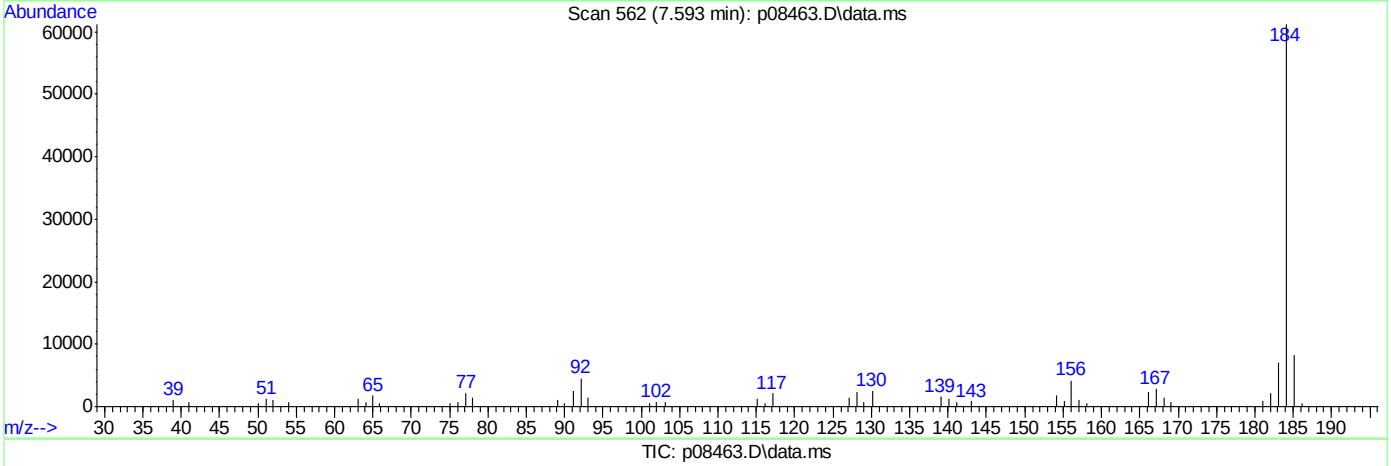
Signal	Exp%	Act%
TIC	100	100
268.00	788.60	8.73#
264.00	777.30	8.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08463.D
Acq On    :  3 Feb 2010  10:37 am
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep402,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Feb 03 10:44:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration
```





TIC: p08463.D\data.ms

(3) Benzidine

7.593min (0.000) 0.00

response 236558

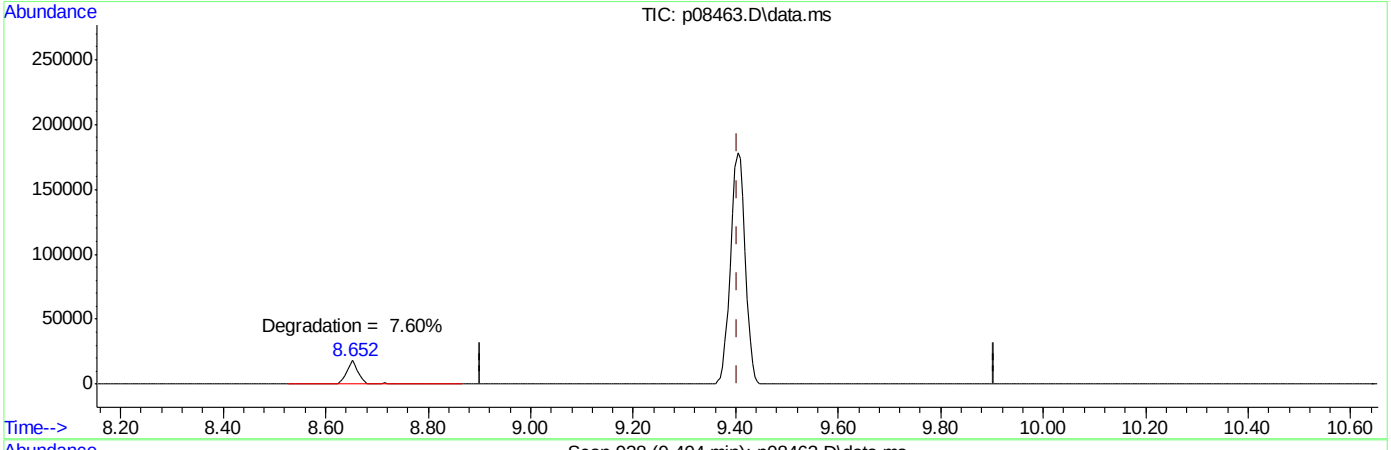
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

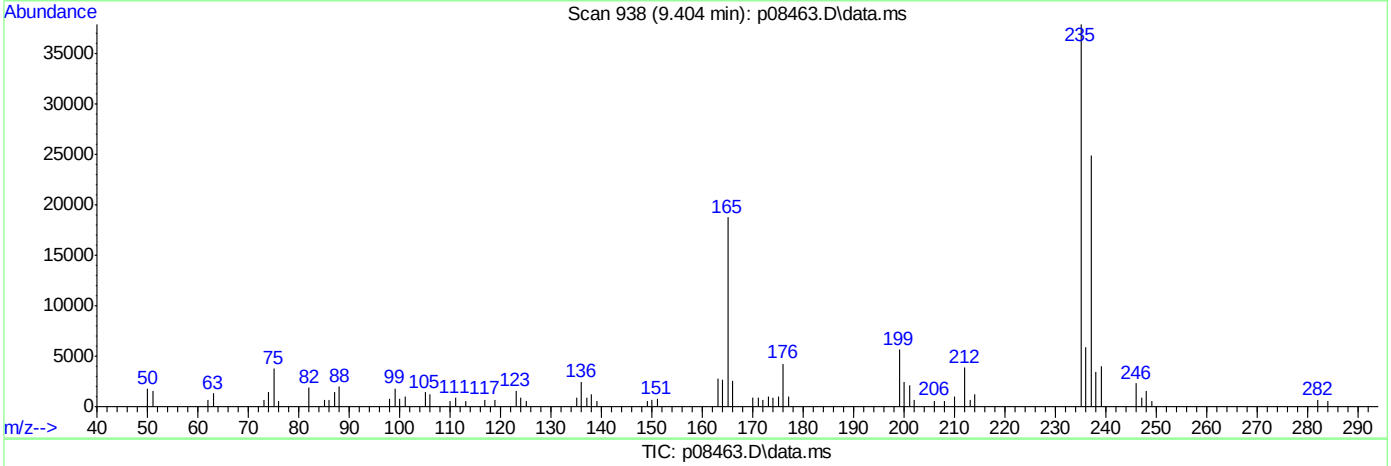
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08463.D
Acq On : 3 Feb 2010 10:37 am
Operator : garyj
Sample : dftpp
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 03 10:44:48 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration





TIC: p08463.D\data.ms

(4) DDT

9.404min (0.000) 0.00

response 352375

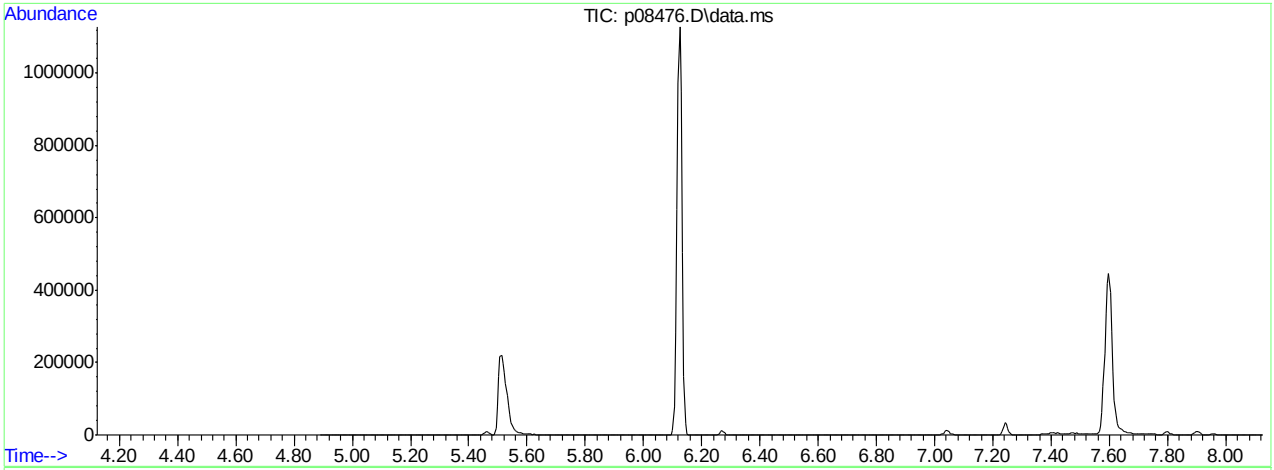
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\ep403\p08476.D
Acq On : 3 Feb 2010 5:01 pm
Sample : dftpp
Misc : op13254,Ep403,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: garyj
Inst : GCMS P
Multiplr: 1.00

Method : C:\msdchem\1\MET...\ep402benzresc.m (RTE Integrator)
Title :



AutoFind: Scans 256, 257, 258; Background Corrected with Scan 249

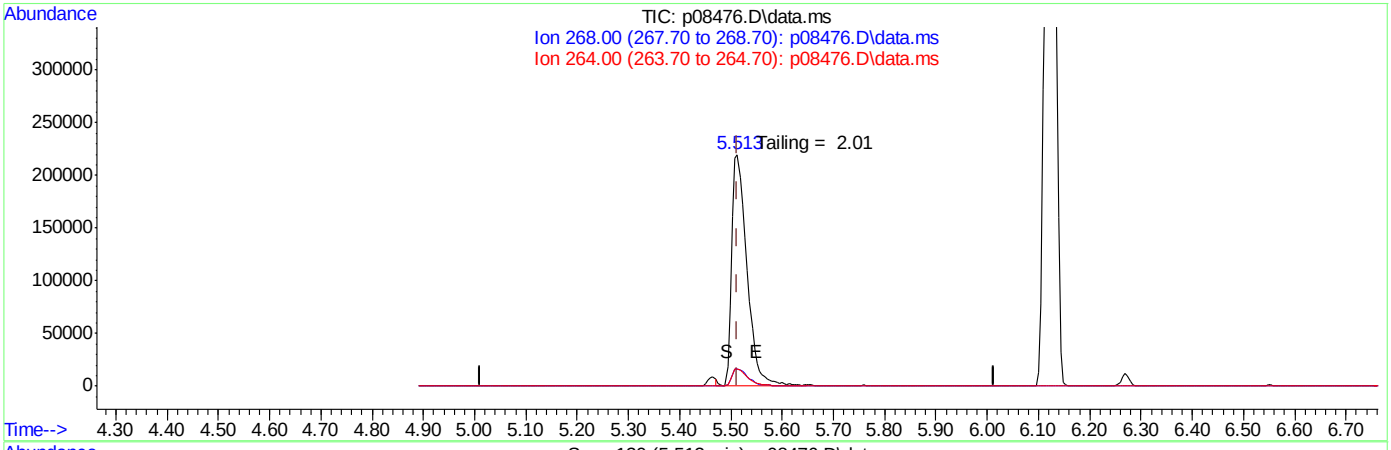
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.1	57477	PASS
68	69	0.00	2	1.3	712	PASS
69	198	0.00	100	42.3	53928	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.6	56875	PASS
197	198	0.00	1	0.6	703	PASS
198	198	100	100	100.0	127413	PASS
199	198	5	9	6.9	8733	PASS
275	198	10	30	21.0	26795	PASS
365	198	1	100	2.3	2985	PASS
441	443	0.01	100	73.7	13441	PASS
442	198	40	100	73.4	93501	PASS
443	442	17	23	19.5	18231	PASS

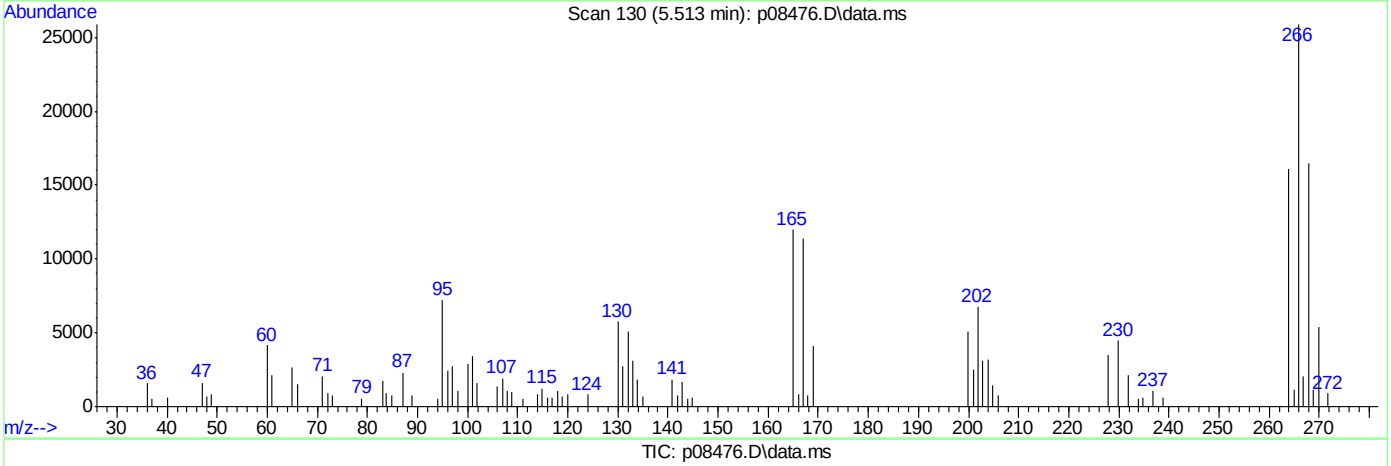
p08476.D ep402benzresc.m Wed Feb 03 17:09:45 2010

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08476.D
Acq On    :  3 Feb 2010   5:01 pm
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Feb 03 17:10:37 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration
```





TIC: p08476.D\data.ms

(1) Pentachlorophenol

5.513min (-0.000) 0.00

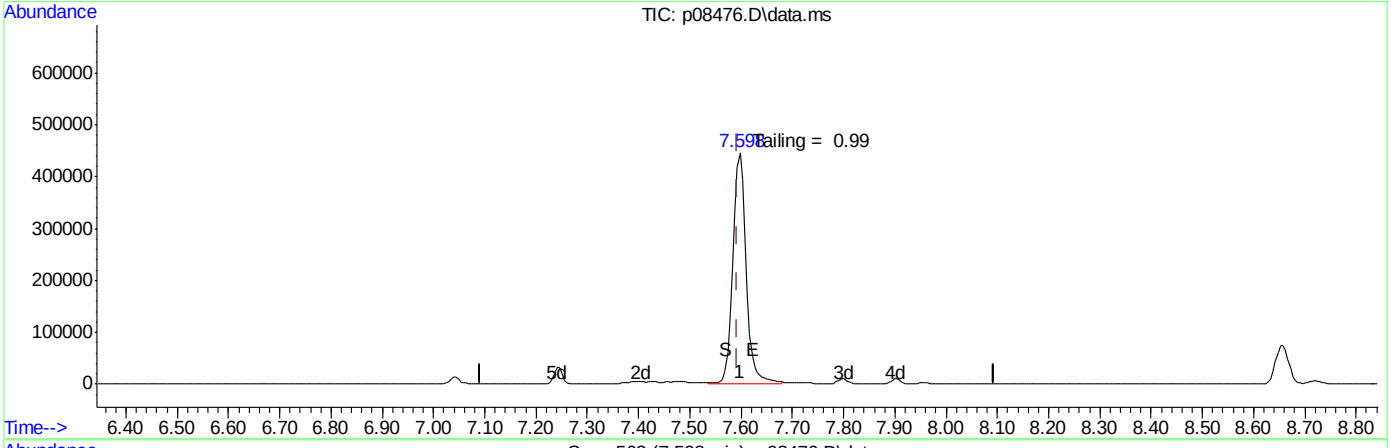
response 451265

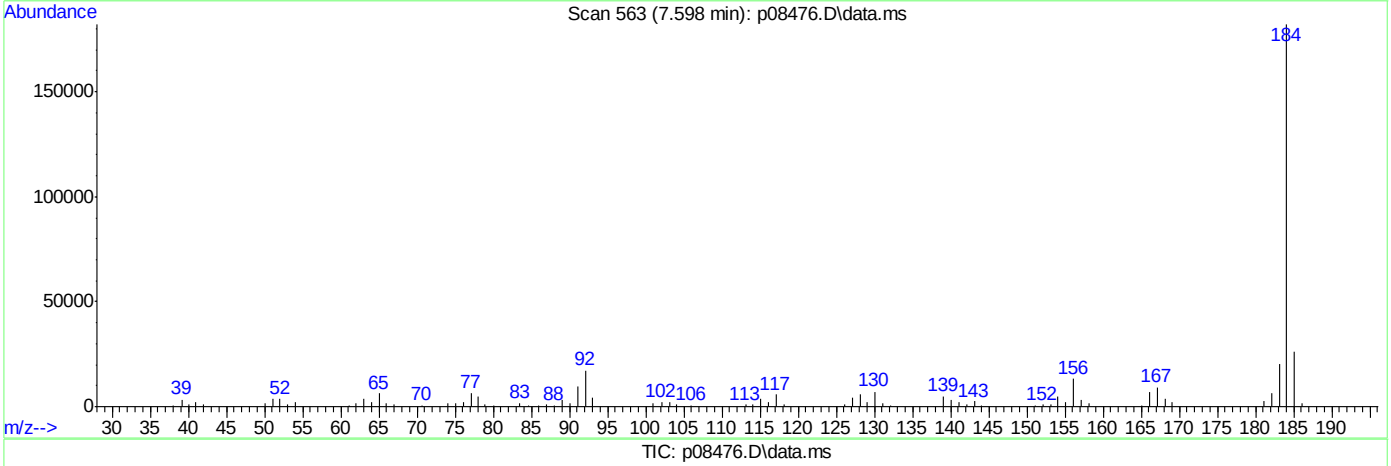
Signal	Exp%	Act%
TIC	100	100
268.00	788.60	8.45#
264.00	777.30	8.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08476.D
Acq On    :  3 Feb 2010   5:01 pm
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Feb 03 17:10:37 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration
```





TIC: p08476.D\data.ms

(3) Benzidine

7.598min (+0.005) 0.00

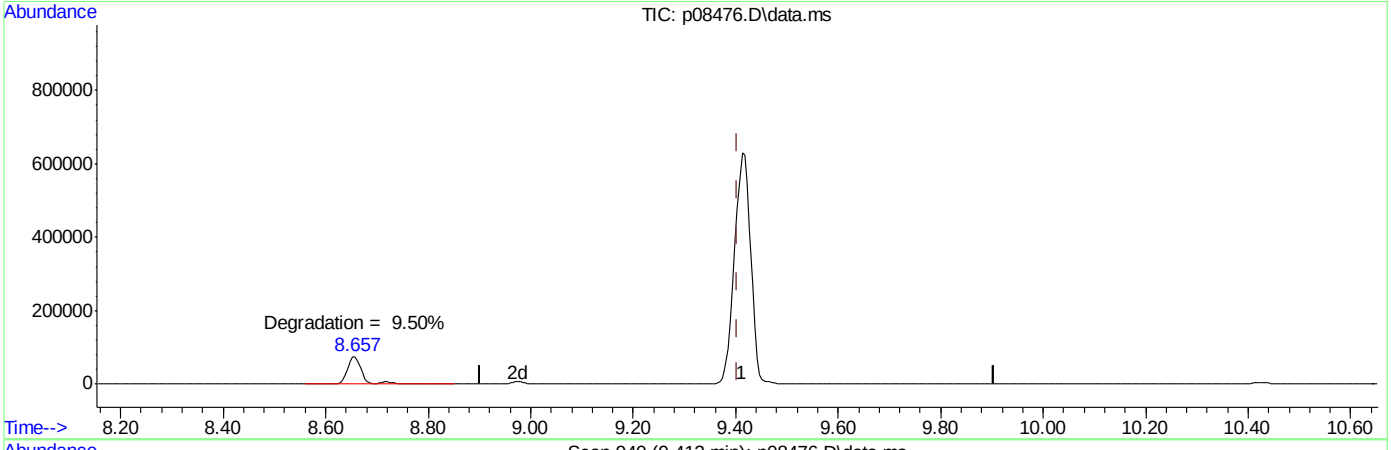
response 797830

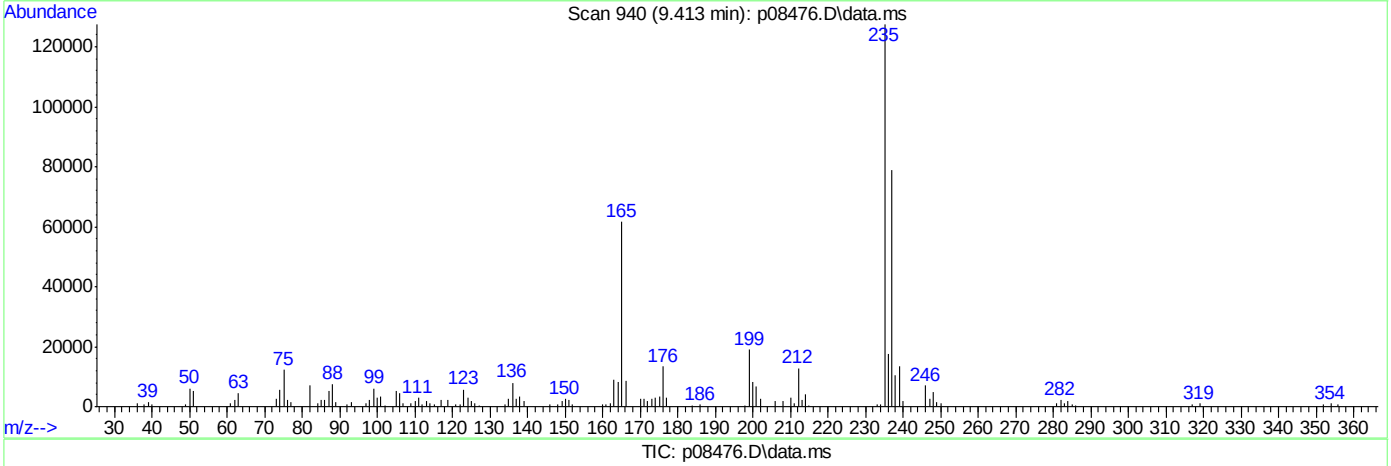
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08476.D
Acq On : 3 Feb 2010 5:01 pm
Operator : garyj
Sample : dftpp
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 03 17:10:37 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration





TIC: p08476.D\data.ms

(4) DDT

9.413min (+0.009) 0.00

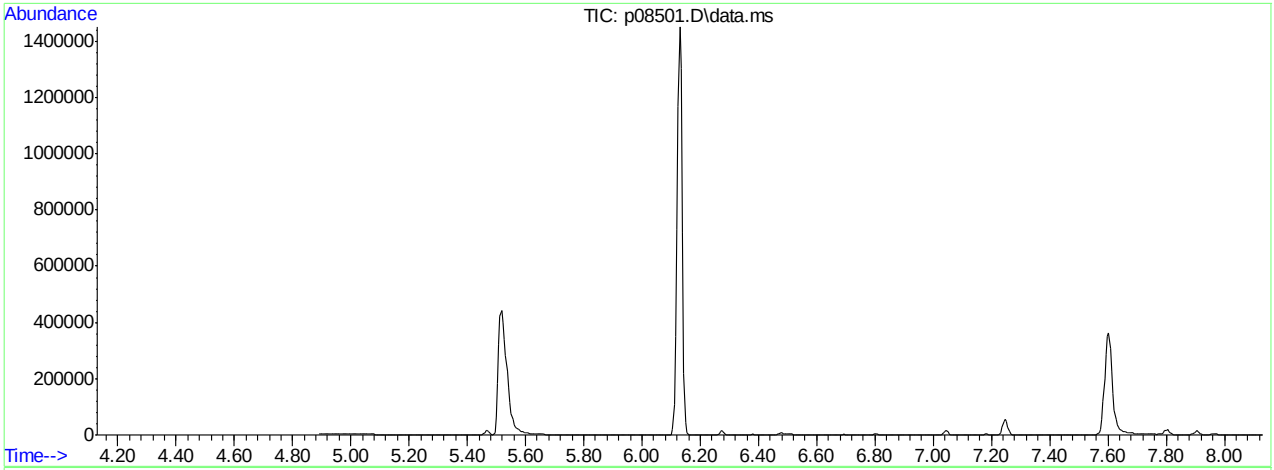
response 1391208

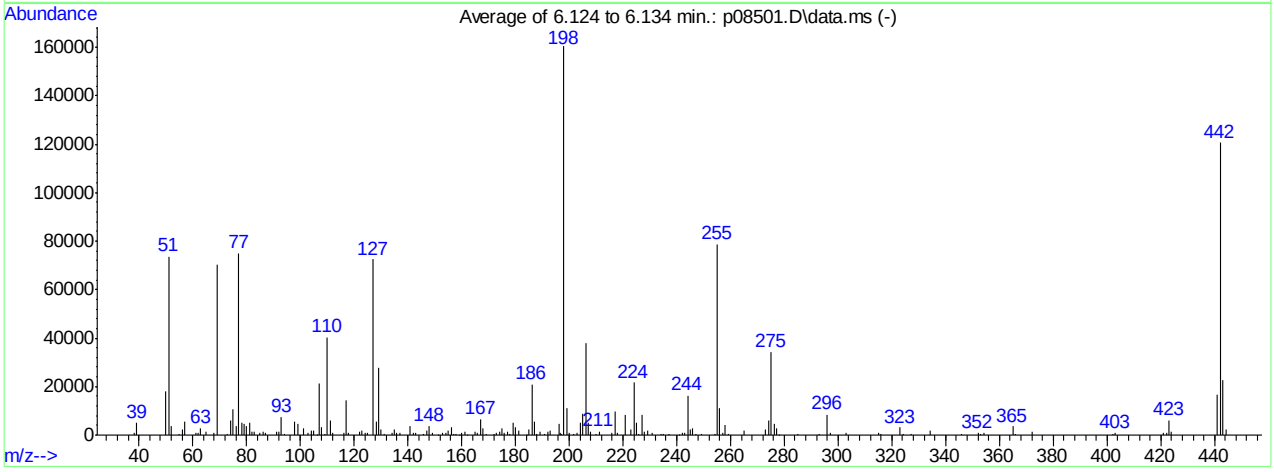
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\ep404\p08501.D Vial: 1
Acq On : 4 Feb 2010 9:15 am Operator: garyj
Sample : dftpp Inst : GCMS P
Misc : op13254,Ep404,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\ep393.m (RTE Integrator)
Title : SW846 8270C Appendix 9





AutoFind: Scans 257, 258, 259; Background Corrected with Scan 250

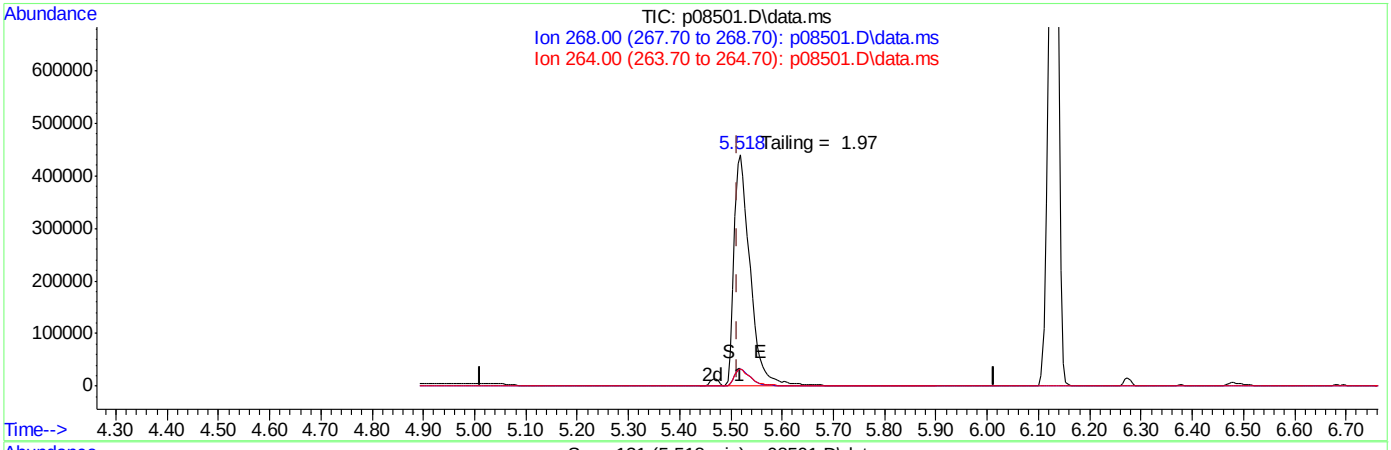
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.0	73720	PASS
68	69	0.00	2	1.4	1010	PASS
69	198	0.00	100	43.7	70133	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.2	72429	PASS
197	198	0.00	1	0.6	895	PASS
198	198	100	100	100.0	160320	PASS
199	198	5	9	6.9	11112	PASS
275	198	10	30	21.5	34395	PASS
365	198	1	100	2.2	3577	PASS
441	443	0.01	100	73.6	16769	PASS
442	198	40	100	75.2	120547	PASS
443	442	17	23	18.9	22789	PASS

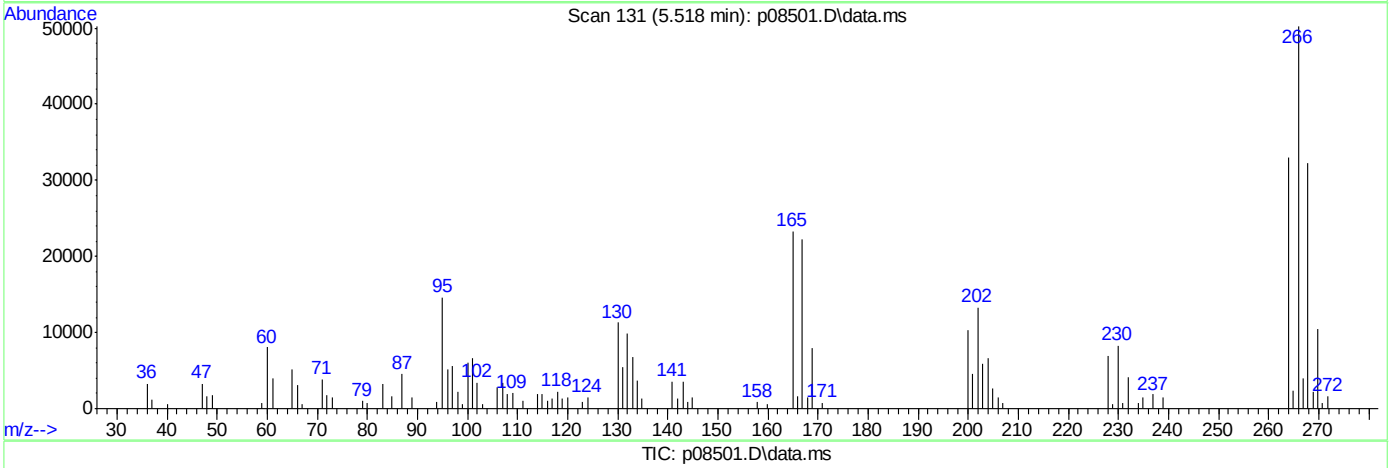
p08501.D ep393.m Thu Feb 04 09:22:19 2010

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08501.D
Acq On : 4 Feb 2010 9:15 am
Operator : garyj
Sample : dftpp
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 09:22:27 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration





(1) Pentachlorophenol

5.518min (+0.005) 0.00

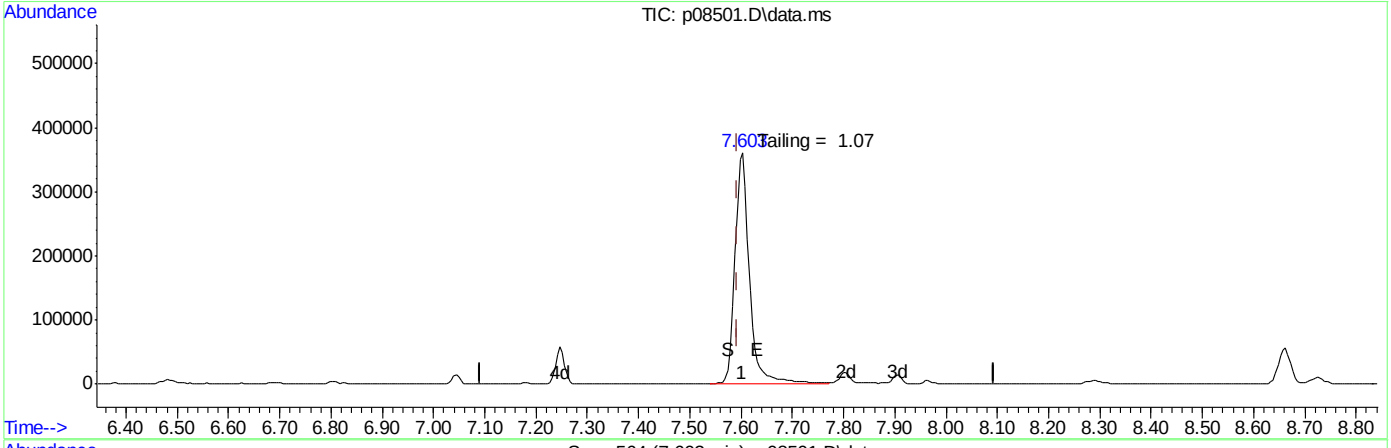
response 958958

Signal	Exp%	Act%
TIC	100	100
268.00	788.60	7.91#
264.00	777.30	7.91#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08501.D
Acq On : 4 Feb 2010 9:15 am
Operator : garyj
Sample : dftpp
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 09:22:27 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration



(3) Benzidine

7.603min (+0.010) 0.00

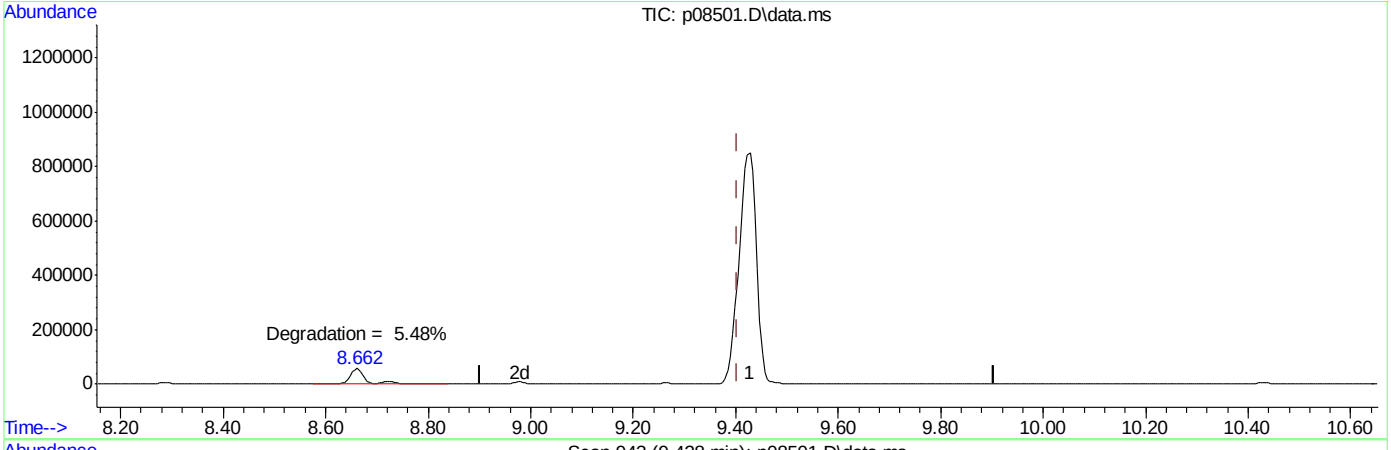
response 708901

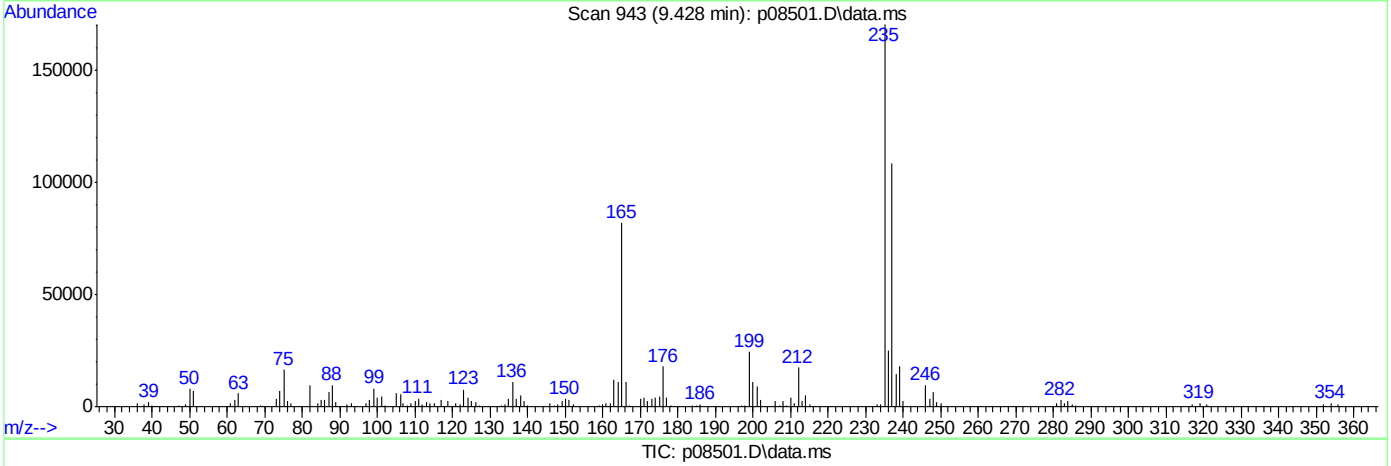
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08501.D
Acq On    :  4 Feb 2010   9:15 am
Operator  : garyj
Sample    : dftpp
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Feb 04 09:22:27 2010
Quant Method : C:\msdchem\1\METHODS\dftpp.M
Quant Title  :
QLast Update : Wed Feb 03 10:44:41 2010
Response via : Initial Calibration
```





TIC: p08501.D\data.ms

(4) DDT

9.428min (+0.024) 0.00

response 2023794

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
02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 14:19:13 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6122	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	5737	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	4092	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	10152	4.00	ppb	0.00
21) Chrysene-d12	14.97	240	12210	4.00	ppb	0.00
26) Perylene-d12	17.81	264	3092	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	6976	3.61	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	72.20%	
10) 2-Fluorobiphenyl	9.63	172	29194	1.97	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	39.40%	
16) 2,4,6-Tribromophenol	11.18	330	5606	4.58	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery	=	45.80%	
23) Terphenyl-d14	13.50	244	11265	4.66	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	93.20%	

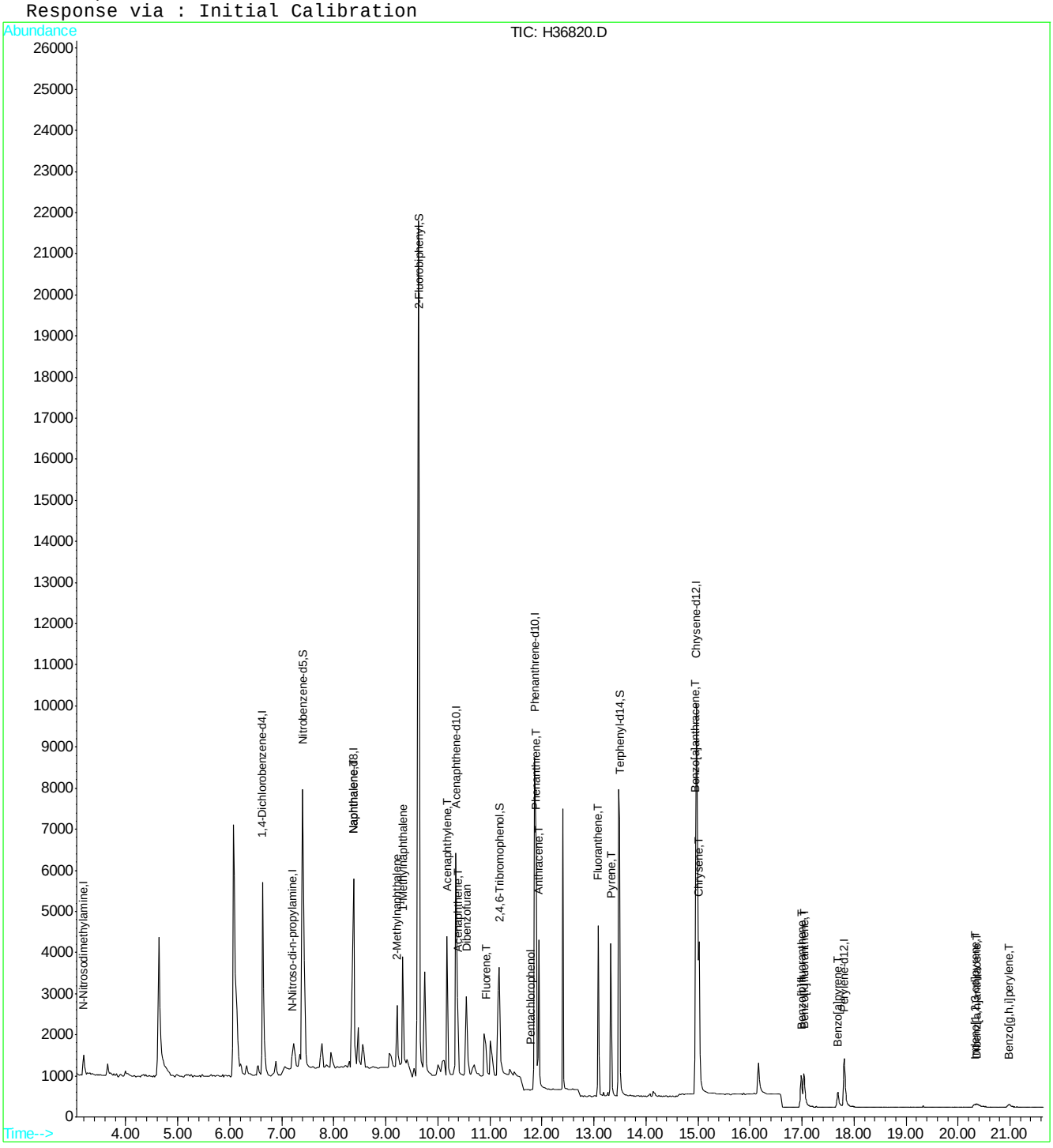
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.19	74	371	1.81	ppb #	58
3) N-Nitroso-di-n-propylamine	7.20	70	632	1.43	ppb #	97
6) Naphthalene	8.38	128	2237	0.63	ppb	91
7) 2-Methylnaphthalene	9.21	142	1346	0.50	ppb #	80
8) 1-Methylnaphthalene	9.33	142	2323	0.65	ppb #	83
11) Acenaphthylene	10.18	152	3788	0.35	ppb #	84
12) Acenaphthene	10.38	153	1312	0.57	ppb #	19
13) Dibenzofuran	10.55	168	2134	0.23	ppb #	57
14) Fluorene	10.92	166	1008	0.35	ppb #	45
17) Pentachlorophenol	11.79	266	101m	0.07	ppb	
18) Phenanthrene	11.89	178	4374m	0.78	ppb	
19) Anthracene	11.94	178	3235	0.66	ppb #	78
20) Fluoranthene	13.08	202	5087	0.70	ppb #	96
22) Pyrene	13.33	202	5237	1.07	ppb #	95
24) Benzo[a]anthracene	14.95	228	4422	0.88	ppb	93
25) Chrysene	15.02	228	4423	1.00	ppb	92
27) Benzo[b]fluoranthene	16.99	252	1675	1.40	ppb	100
28) Benzo[k]fluoranthene	17.04	252	2281	1.69	ppb	100
29) Benzo[a]pyrene	17.69	252	1108	1.02	ppb	100
30) Indeno[1,2,3-cd]pyrene	20.32	276	346	0.36	ppb	100
31) Dibenz[a,h]anthracene	20.37	278	296m	0.41	ppb	
32) Benzo[g,h,i]perylene	20.98	276	254m	0.34	ppb	

(#) = qualifier out of range (m) = manual integration
H36820.D H20310SP.M Wed Feb 03 16:57:40 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: H20310SP.RES

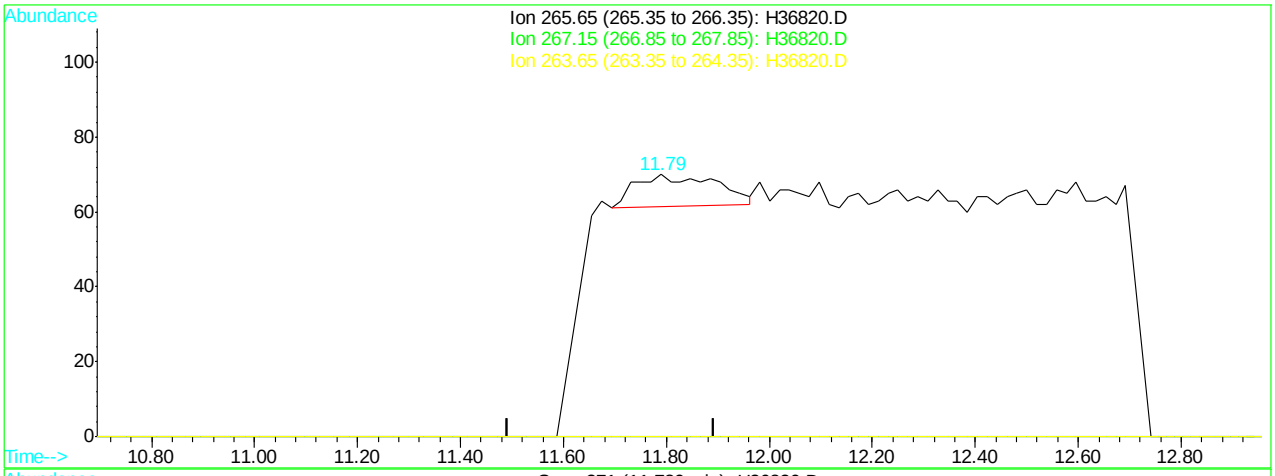
Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Initial Calibration

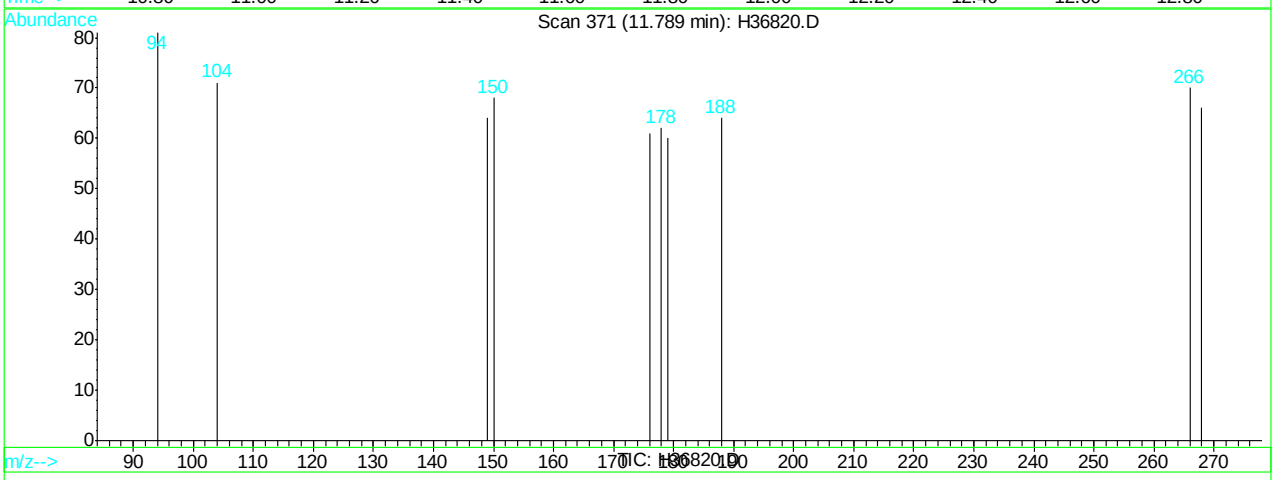


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Multiple Level Calibration





(17) Pentachlorophenol

11.79min 0.07ppb m

response 101

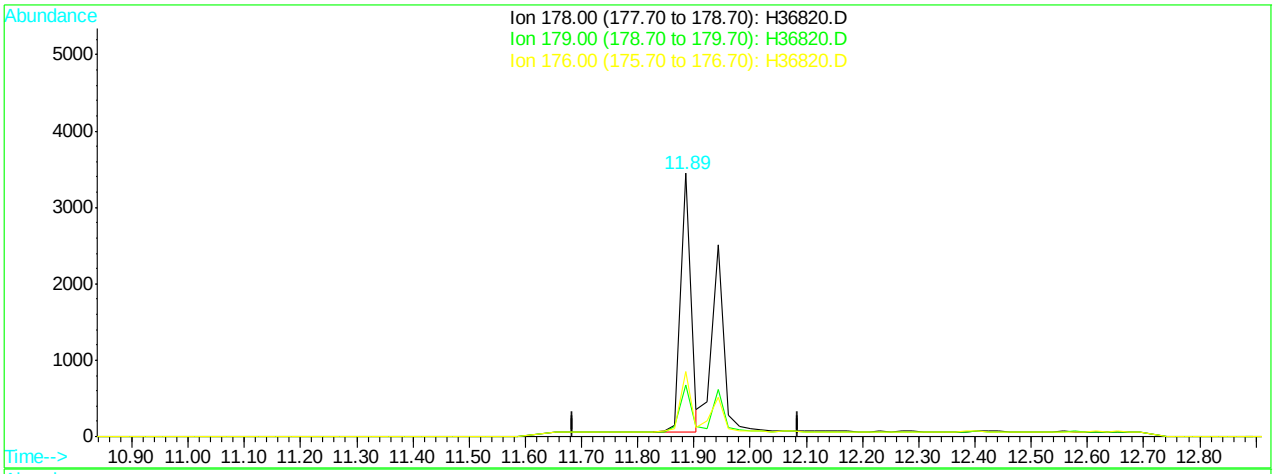
Ion	Exp%	Act%
265.65	100	100
267.15	0.00	0.00
263.65	0.00	0.00
0.00	0.00	0.00

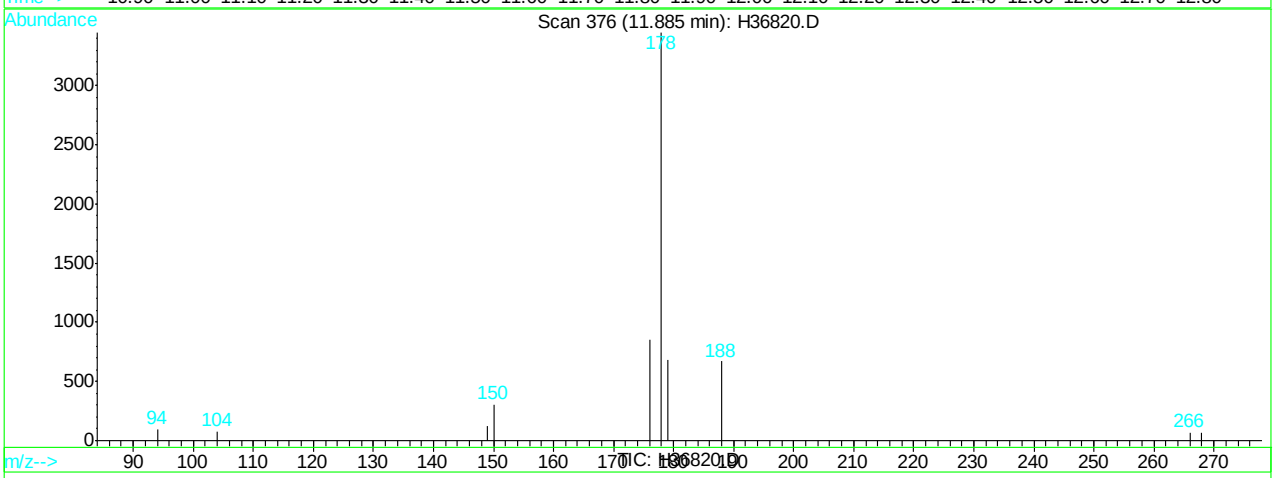
H36820.D H20310SP.M Wed Feb 03 16:58:37 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.89min 0.78ppb m

response 4374

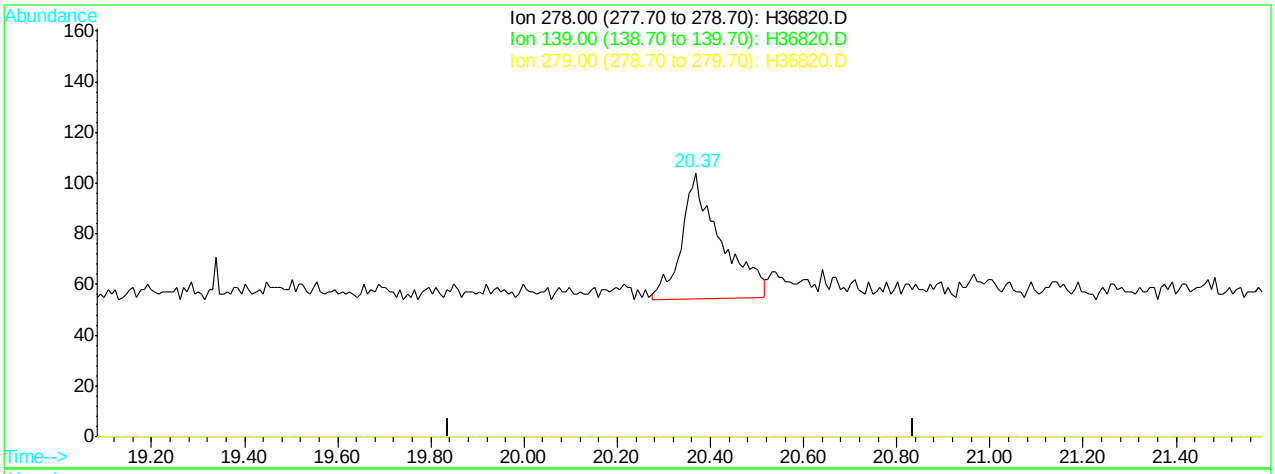
Ion	Exp%	Act%
178.00	100	100
179.00	21.90	19.72
176.00	17.00	24.68#
0.00	0.00	0.00

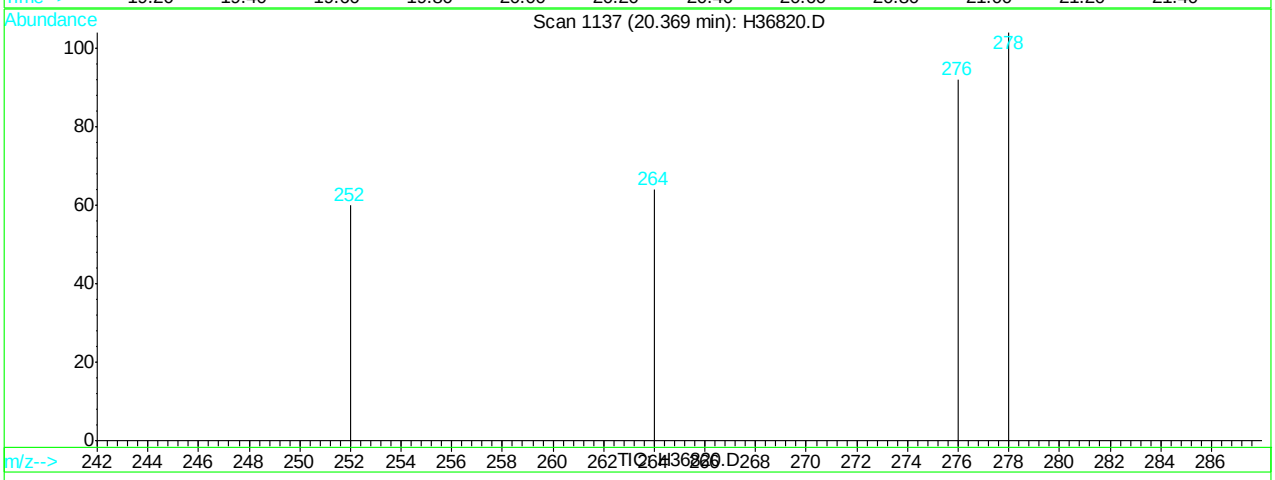
H36820.D H20310SP.M Wed Feb 03 16:58:42 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

20.37min 0.41ppb m

response 296

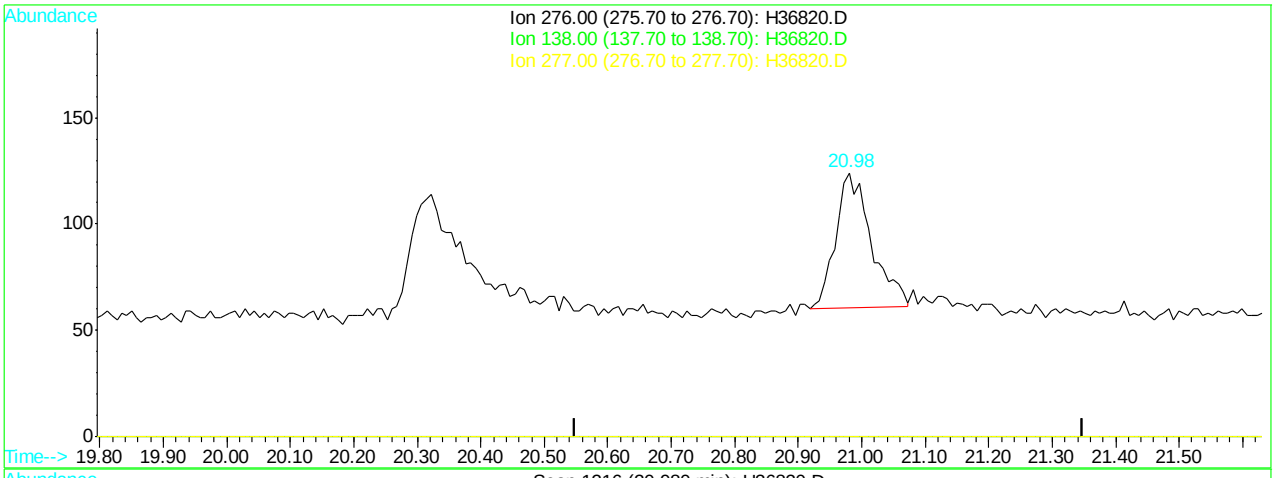
Ion	Exp%	Act%
278.00	100	100
139.00	0.00	0.00
279.00	0.00	0.00
0.00	0.00	0.00

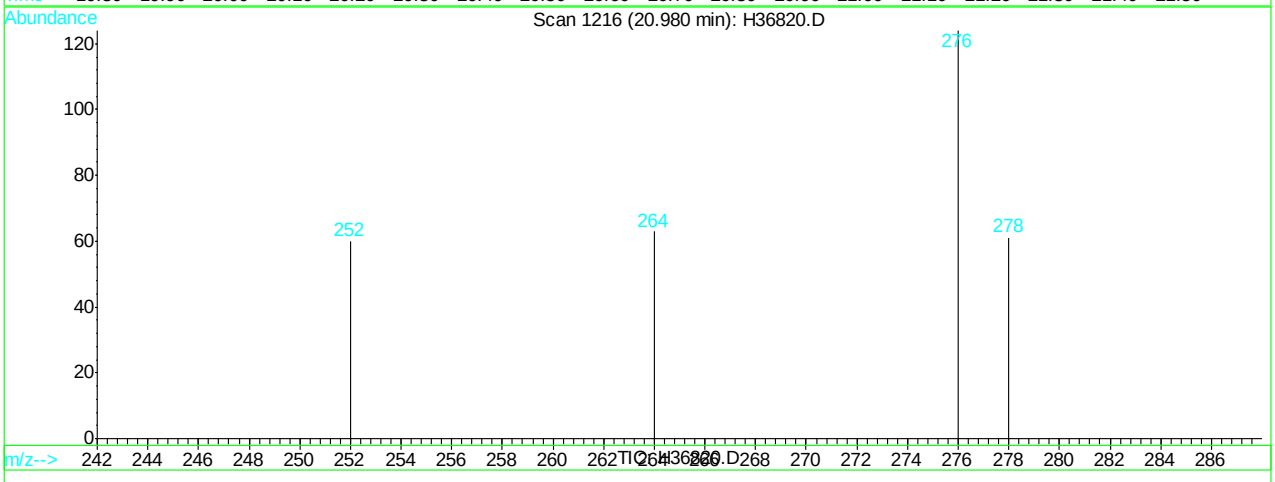
H36820.D H20310SP.M Wed Feb 03 16:58:45 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36820.D Vial: 3
Acq On : 3 Feb 2010 12:46 pm Operator: sheilac
Sample : ic1975-1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:06 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Multiple Level Calibration





(32) Benzo[g,h,i]perylene (T)

20.98min 0.34ppb m

response 254

Ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
277.00	0.00	0.00
0.00	0.00	0.00

H36820.D H20310SP.M Wed Feb 03 16:58:49 2010

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36821.D Vial: 4
Acq On : 3 Feb 2010 1:17 pm Operator: sheilac
Sample : ic1975-5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:53 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 15:53:38 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6803	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	7410	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	5472	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	11046	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	13503	4.00	ppb	0.00
26) Perylene-d12	17.81	264	3740	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	27484	15.00	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 300.00%#			
10) 2-Fluorobiphenyl	9.63	172	122859	20.10	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 402.00%#			
16) 2,4,6-Tribromophenol	11.18	330	44916	37.76	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 377.60%#			
23) Terphenyl-d14	13.49	244	67048	22.00	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 440.00%#			

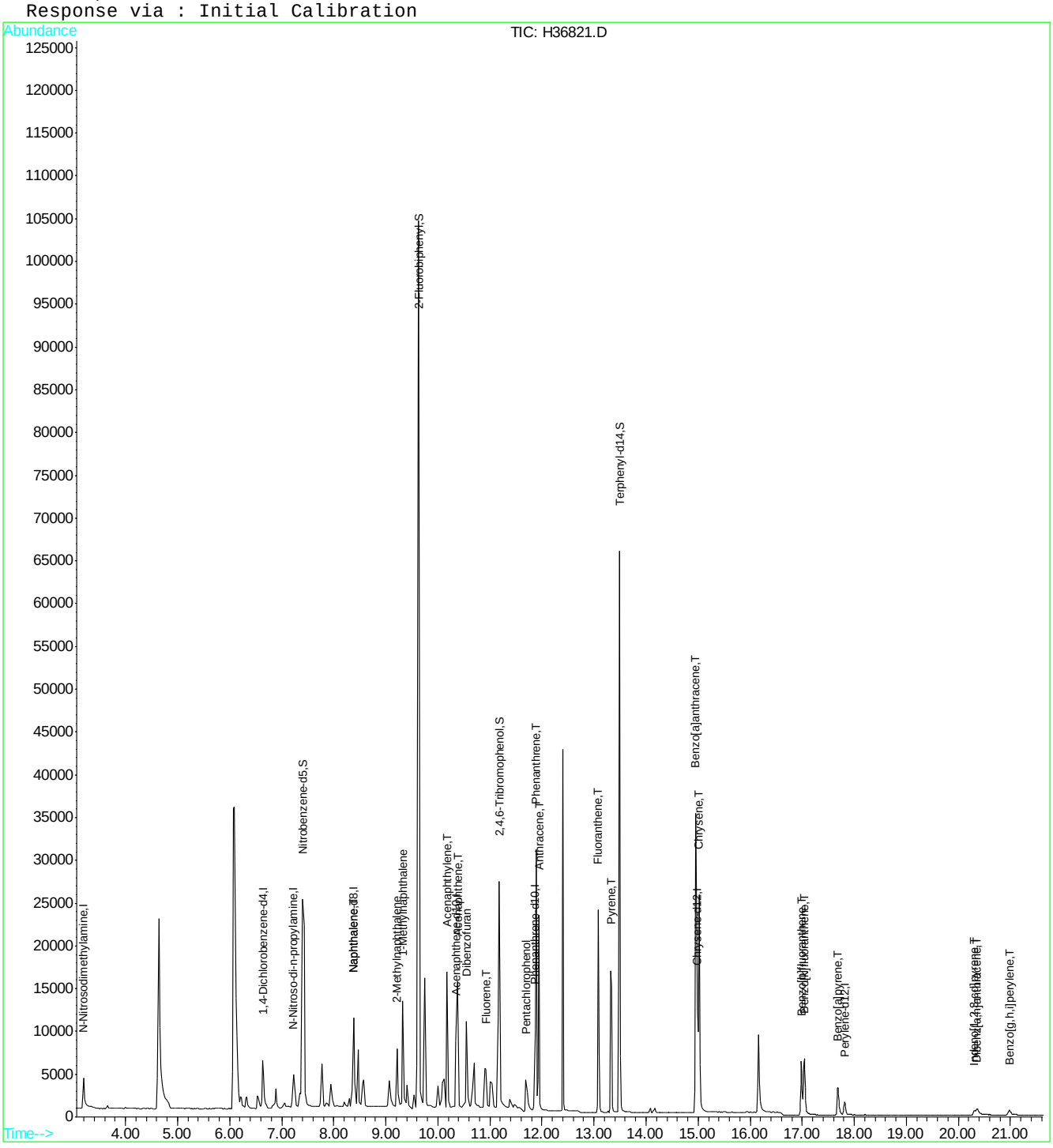
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	3.20	74	1821	4.51	ppb		89
3) N-Nitroso-di-n-propylamine	7.23	70	2292	3.45	ppb	#	41
6) Naphthalene	8.38	128	8706	3.75	ppb		92
7) 2-Methylnaphthalene	9.21	142	6290	2.60	ppb	#	97
8) 1-Methylnaphthalene	9.33	142	10090	3.13	ppb	#	94
11) Acenaphthylene	10.18	152	16260	3.84	ppb		92
12) Acenaphthene	10.38	153	9692	4.77	ppb		93
13) Dibenzofuran	10.55	168	9470	3.91	ppb	#	50
14) Fluorene	10.92	166	5408	3.65	ppb	#	20
17) Pentachlorophenol	11.69	266	8412	7.23	ppb		100
18) Phenanthrene	11.89	178	26894	5.39	ppb		99
19) Anthracene	11.94	178	19232	4.57	ppb		99
20) Fluoranthene	13.08	202	28683	5.04	ppb		99
22) Pyrene	13.32	202	28924	5.28	ppb		97
24) Benzo[a]anthracene	14.95	228	26603	5.01	ppb		98
25) Chrysene	15.02	228	26307	5.03	ppb		96
27) Benzo[b]fluoranthene	16.99	252	12624	5.38	ppb		100
28) Benzo[k]fluoranthene	17.04	252	14907	5.15	ppb		100
29) Benzo[a]pyrene	17.68	252	8237	5.57	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.31	276	2658	5.75	ppb		100
31) Dibenz[a,h]anthracene	20.36	278	1911	5.57	ppb		100
32) Benzo[g,h,i]perylene	20.98	276	2081	5.27	ppb		100

(#) = qualifier out of range (m) = manual integration
H36821.D H20310SP.M Wed Feb 03 16:58:55 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36821.D Vial: 4
Acq On : 3 Feb 2010 1:17 pm Operator: sheilac
Sample : ic1975-5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:53 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 14:19:13 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6163	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	8060	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	5848	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	11028	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	15741	4.00	ppb	0.02
26) Perylene-d12	17.81	264	4130	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	7.43	82	53950	19.88	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery = 397.60%#			
10) 2-Fluorobiphenyl	9.63	172	168682	7.97	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 159.40%#			
16) 2,4,6-Tribromophenol	11.18	330	212962	160.14	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery = 1601.40%#			
23) Terphenyl-d14	13.49	244	137038	44.00	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 880.00%#			

Target Compounds

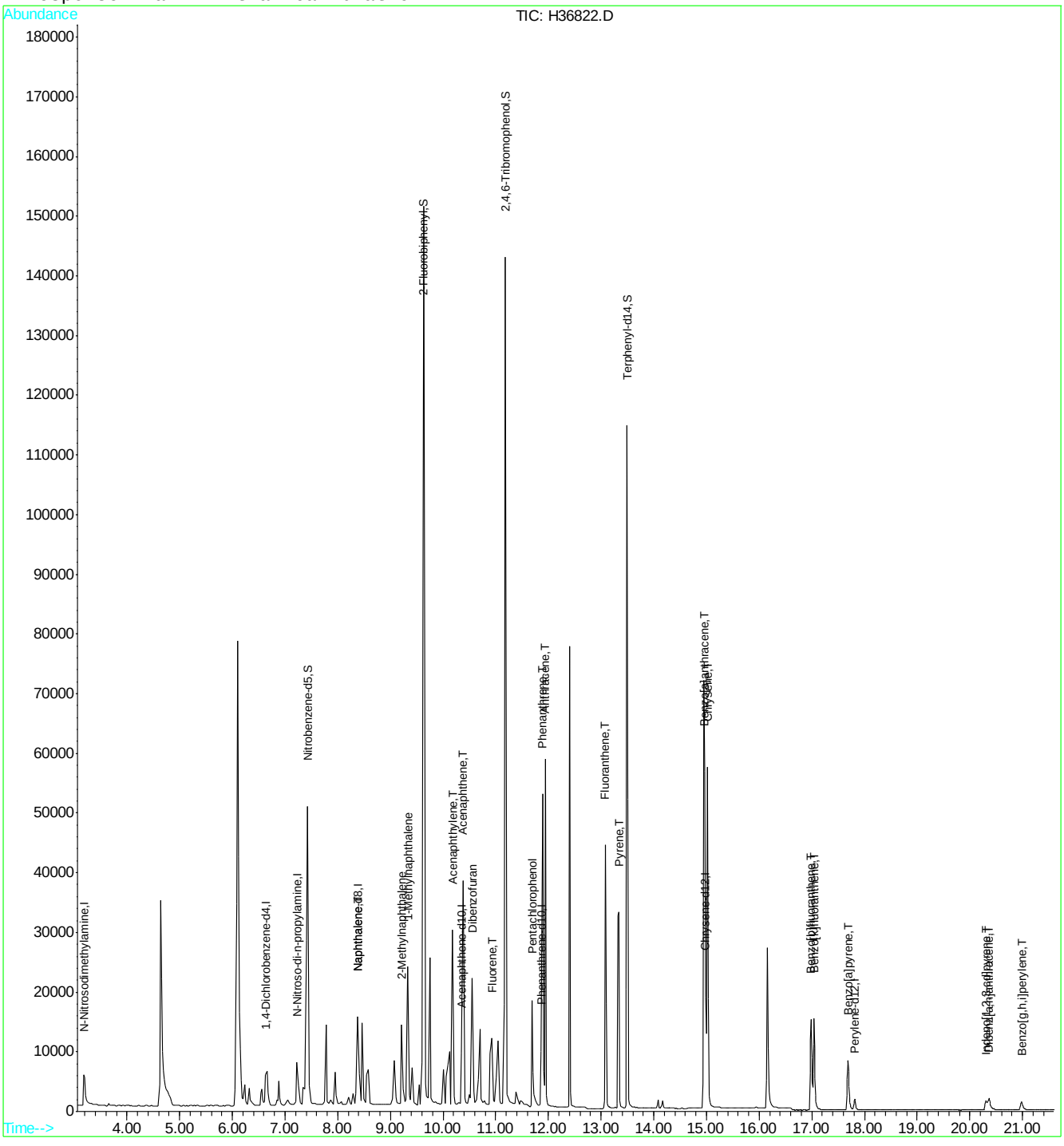
							Qvalue
2) N-Nitrosodimethylamine	3.19	74	2853	13.84	ppb	#	64
3) N-Nitroso-di-n-propylamine	7.23	70	4781	10.77	ppb	#	53
6) Naphthalene	8.38	128	14680	2.93	ppb	#	78
7) 2-Methylnaphthalene	9.21	142	11973	3.17	ppb	#	82
8) 1-Methylnaphthalene	9.33	142	18924	3.79	ppb	#	74
11) Acenaphthylene	10.18	152	29276	1.87	ppb	#	78
12) Acenaphthene	10.38	153	24975	7.63	ppb	#	30
13) Dibenzofuran	10.55	168	16872	1.30	ppb	#	1
14) Fluorene	10.93	166	12371	2.98	ppb	#	35
17) Pentachlorophenol	11.69	266	27024	18.11	ppb		100
18) Phenanthrene	11.88	178	45127m	7.43	ppb		
19) Anthracene	11.94	178	48947m	9.13	ppb		
20) Fluoranthene	13.08	202	57158	7.29	ppb	#	93
22) Pyrene	13.34	202	59635	9.46	ppb		99
24) Benzo[a]anthracene	14.97	228	59386	9.20	ppb		97
25) Chrysene	15.02	228	57786	10.17	ppb		98
27) Benzo[b]fluoranthene	16.99	252	30954	19.41	ppb		100
28) Benzo[k]fluoranthene	17.04	252	32681	18.17	ppb		100
29) Benzo[a]pyrene	17.69	252	19731	13.60	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.31	276	6651	5.18	ppb		100
31) Dibenz[a,h]anthracene	20.36	278	4991	5.19	ppb		100
32) Benzo[g,h,i]perylene	20.98	276	5012	4.98	ppb		100

(#) = qualifier out of range (m) = manual integration
H36822.D H20310SP.M Wed Feb 03 17:08:27 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: H20310SP.RES

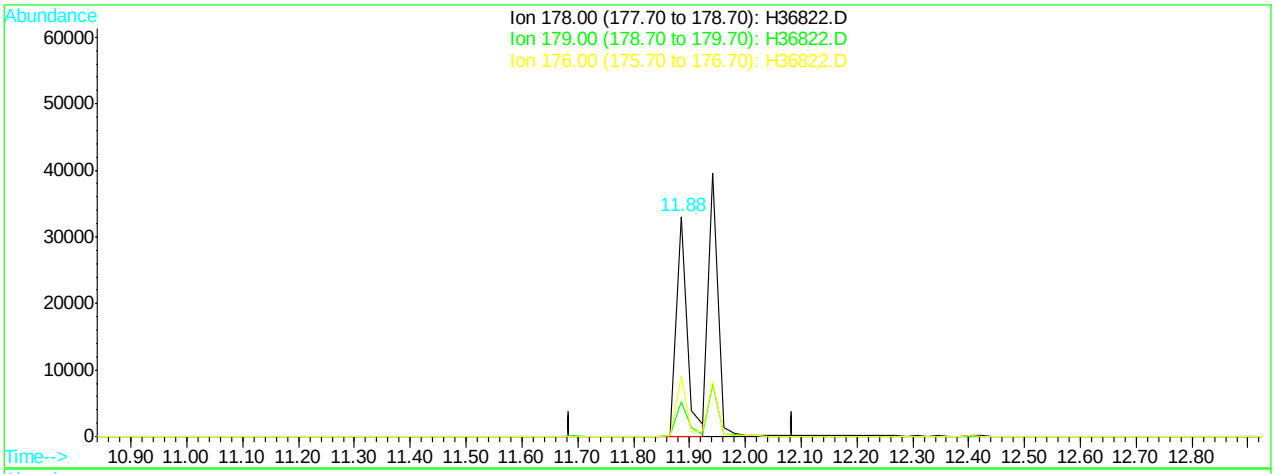
Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Initial Calibration

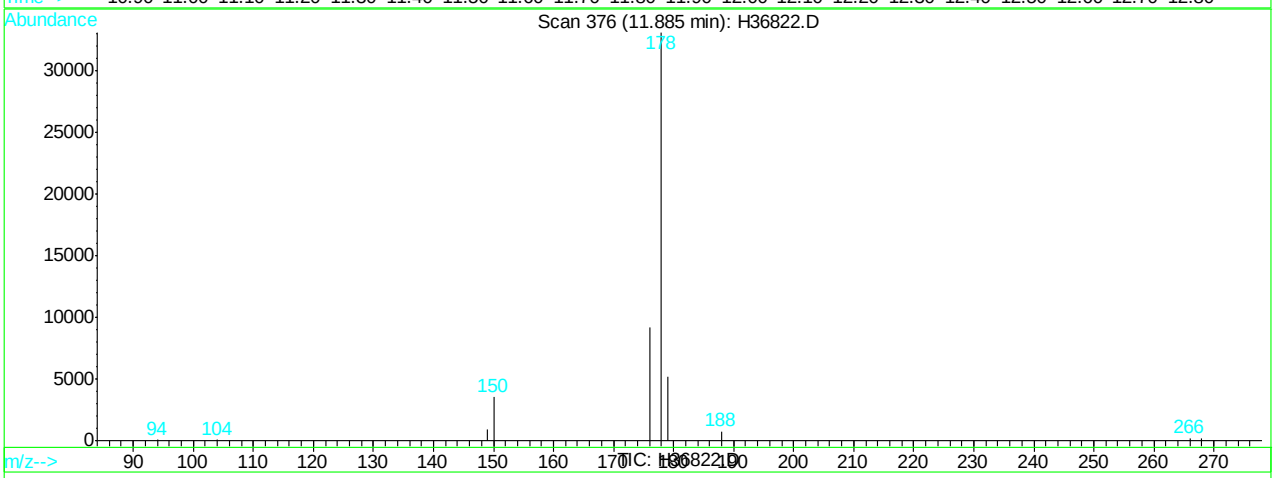


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.88min 7.43ppb m

response 45127

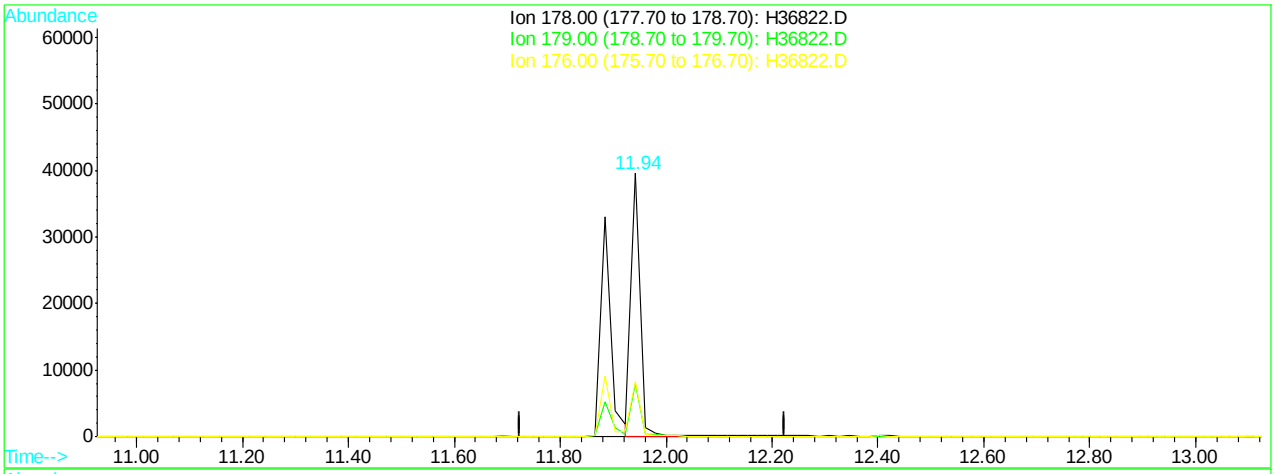
Ion	Exp%	Act%
178.00	100	100
179.00	21.90	15.77
176.00	17.00	27.74#
0.00	0.00	0.00

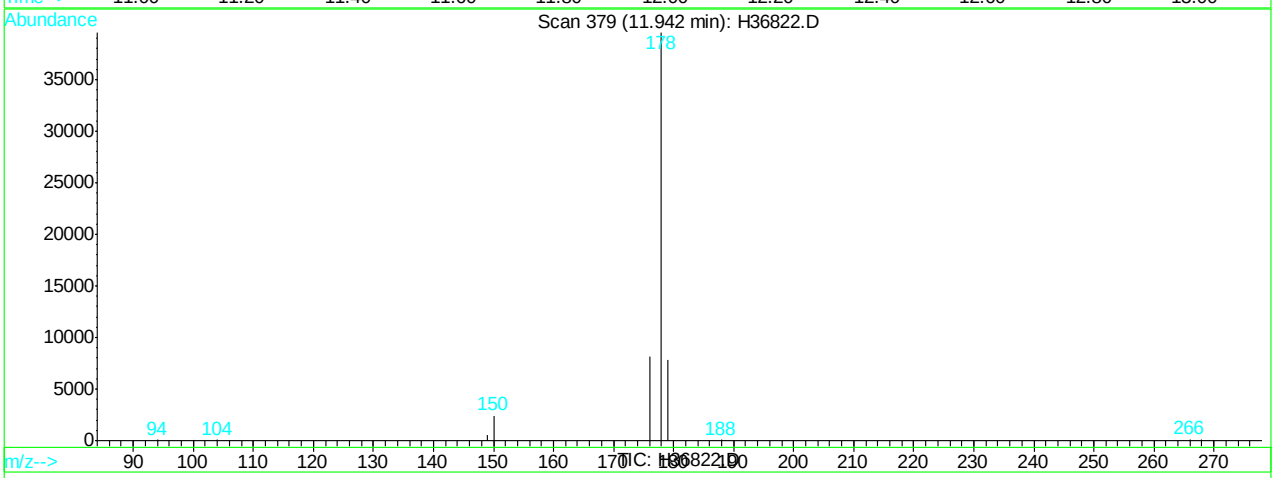
H36822.D H20310SP.M Wed Feb 03 17:08:47 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.94min 9.13ppb m

response 48947

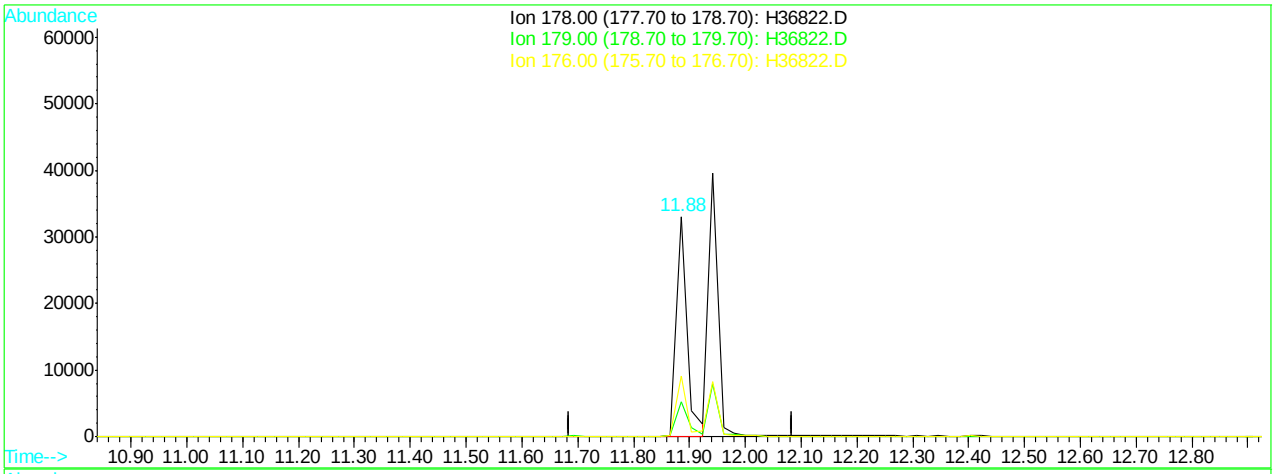
Ion	Exp%	Act%
178.00	100	100
179.00	13.10	19.89#
176.00	27.60	20.69
0.00	0.00	0.00

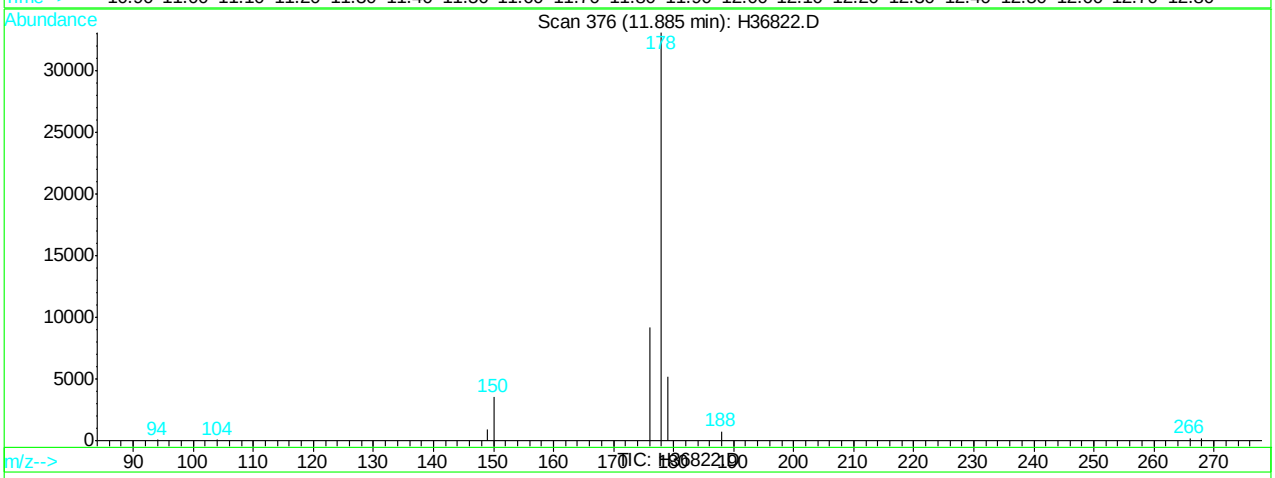
H36822.D H20310SP.M Wed Feb 03 17:08:51 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.88min 7.43ppb m

response 45127

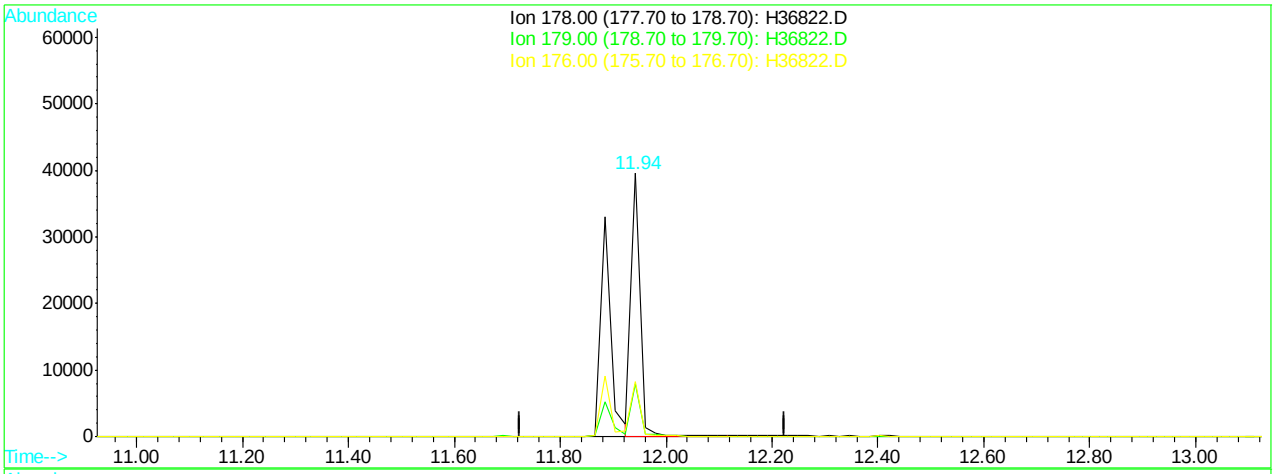
Ion	Exp%	Act%
178.00	100	100
179.00	21.90	15.77
176.00	17.00	27.74#
0.00	0.00	0.00

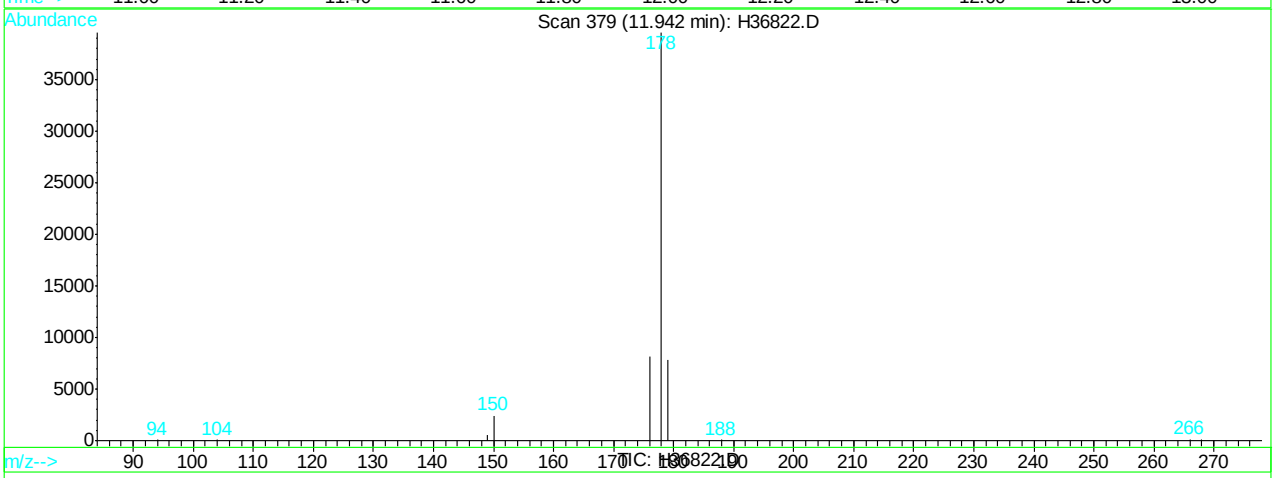
H36822.D H20310SP.M Wed Feb 03 17:10:13 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36822.D Vial: 5
Acq On : 3 Feb 2010 1:46 pm Operator: sheilac
Sample : ic1975-10 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:17 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.94min 9.13ppb m

response 48947

Ion	Exp%	Act%
178.00	100	100
179.00	13.10	19.89#
176.00	27.60	20.69
0.00	0.00	0.00

H36822.D H20310SP.M Wed Feb 03 17:10:16 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 14:19:13 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	7241	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	7321	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	4907	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	11017	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	15846	4.00	ppb	0.02
26) Perylene-d12	17.81	264	3877	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	627	0.25	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	5.00%#	
10) 2-Fluorobiphenyl	9.63	172	4251	0.24	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	4.80%#	
16) 2,4,6-Tribromophenol	11.18	330	889	0.67	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery	=	6.70%#	
23) Terphenyl-d14	13.49	244	1344	0.43	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	8.60%#	

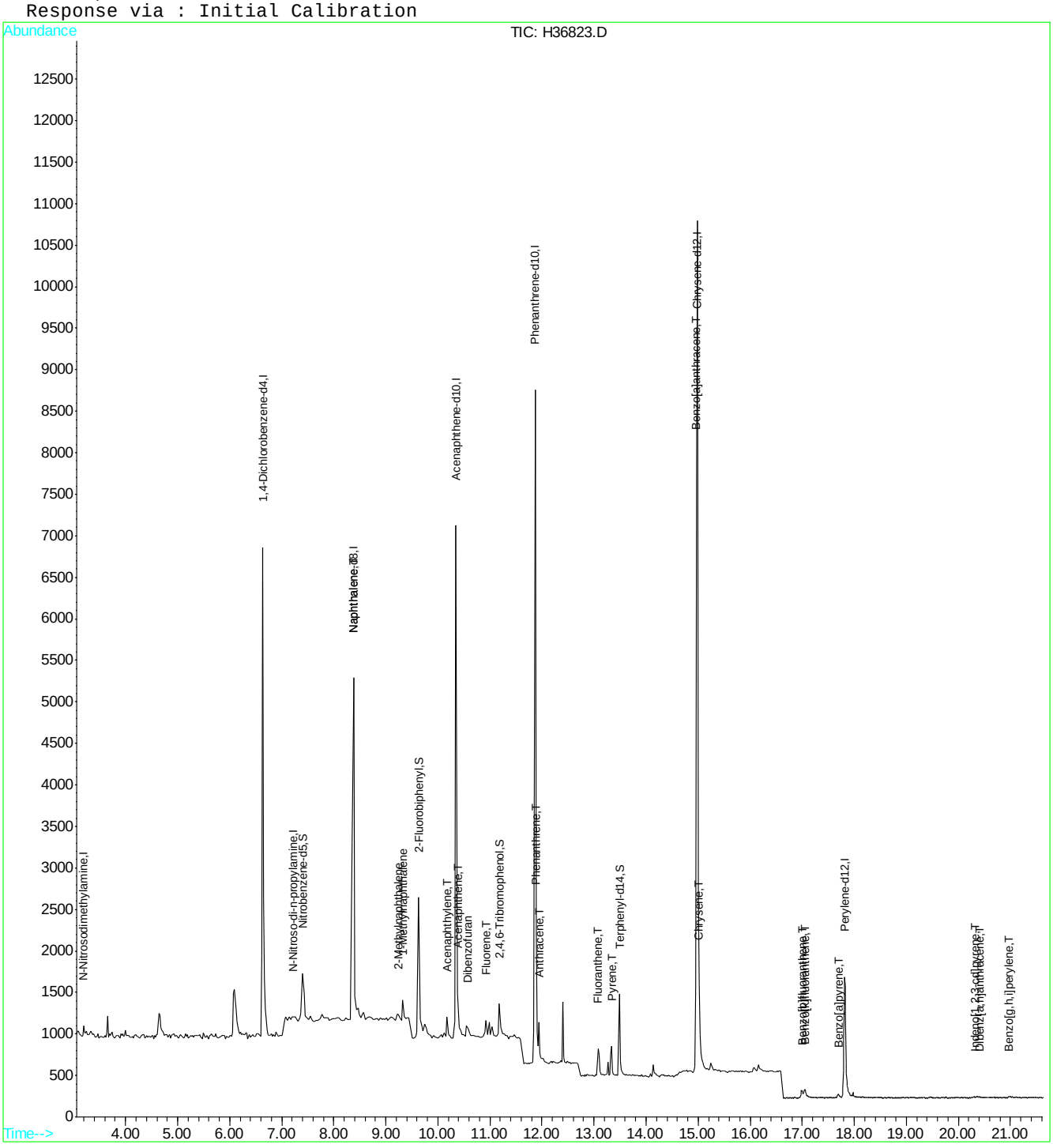
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	3.20	74	45m	0.19	ppb		
3) N-Nitroso-di-n-propylamine	7.23	70	78m	0.15	ppb		
6) Naphthalene	8.38	128	300	0.07	ppb	#	72
7) 2-Methylnaphthalene	9.24	142	95	0.03	ppb	#	45
8) 1-Methylnaphthalene	9.33	142	147	0.03	ppb	#	56
11) Acenaphthylene	10.18	152	366	0.03	ppb		87
12) Acenaphthene	10.38	153	238	0.09	ppb	#	33
13) Dibenzofuran	10.58	168	211	0.02	ppb	#	21
14) Fluorene	10.92	166	199	0.06	ppb	#	56
18) Phenanthrene	11.89	178	547m	0.09	ppb		
19) Anthracene	11.94	178	437	0.08	ppb	#	82
20) Fluoranthene	13.08	202	589	0.08	ppb	#	91
22) Pyrene	13.34	202	621	0.10	ppb		100
24) Benzo[a]anthracene	14.97	228	703m	0.11	ppb		
25) Chrysene	15.02	228	671	0.12	ppb		98
27) Benzo[b]fluoranthene	16.99	252	232	0.15	ppb		100
28) Benzo[k]fluoranthene	17.05	252	305	0.18	ppb		100
29) Benzo[a]pyrene	17.70	252	134	0.10	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.31	276	24	0.02	ppb		100
31) Dibenz[a,h]anthracene	20.40	278	26	0.03	ppb		100
32) Benzo[g,h,i]perylene	20.98	276	56	0.06	ppb		100

(#) = qualifier out of range (m) = manual integration
H36823.D H20310SP.M Wed Feb 03 17:10:24 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: H20310SP.RES

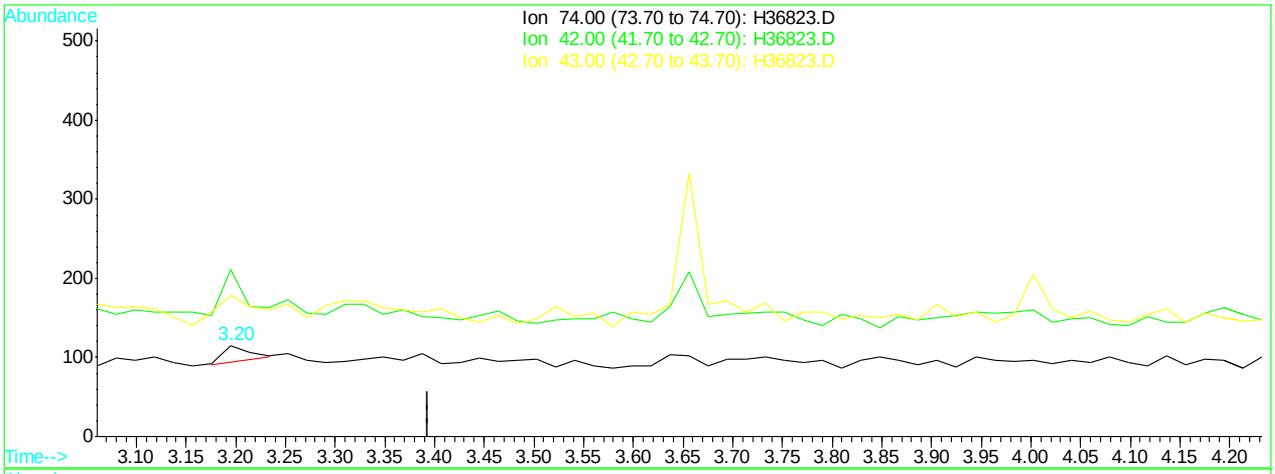
Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Initial Calibration

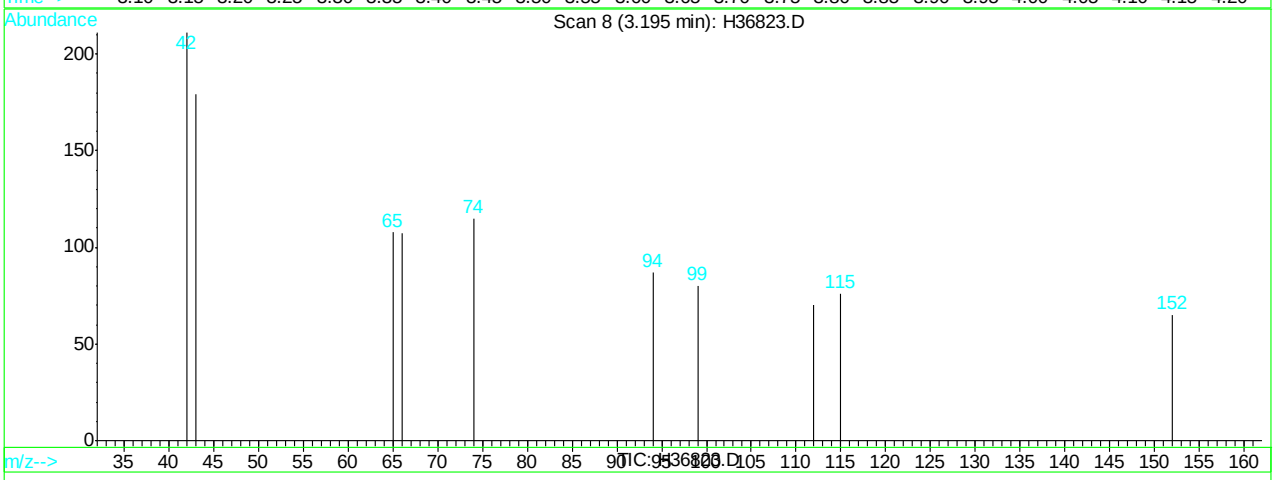


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(2) N-Nitrosodimethylamine (I)

3.20min 0.19ppb m

response 45

Ion	Exp%	Act%
74.00	100	100
42.00	263.70	183.48#
43.00	92.80	155.65#
0.00	0.00	0.00

H36823.D H20310SP.M Wed Feb 03 17:10:50 2010

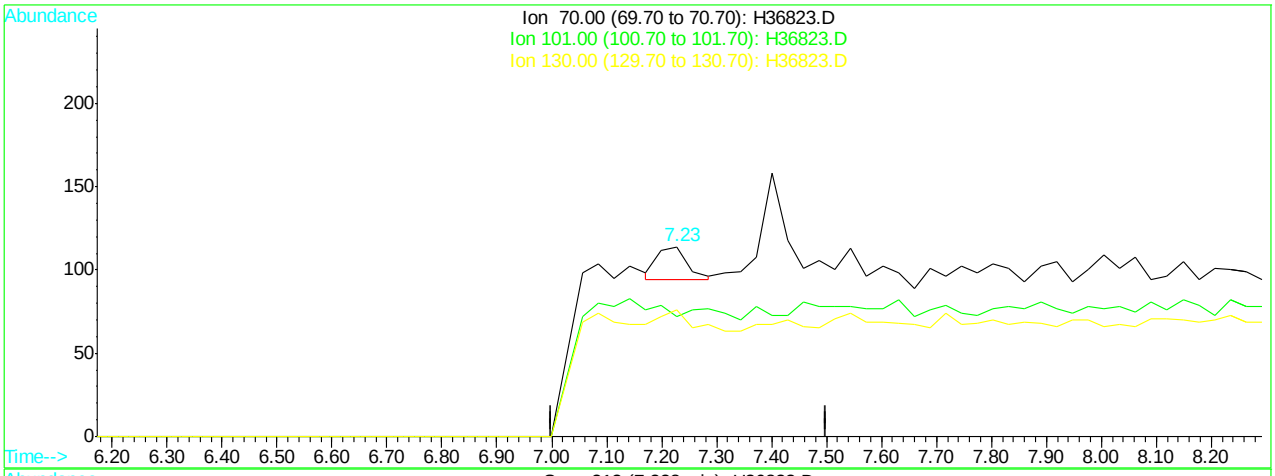
8.6.4.1

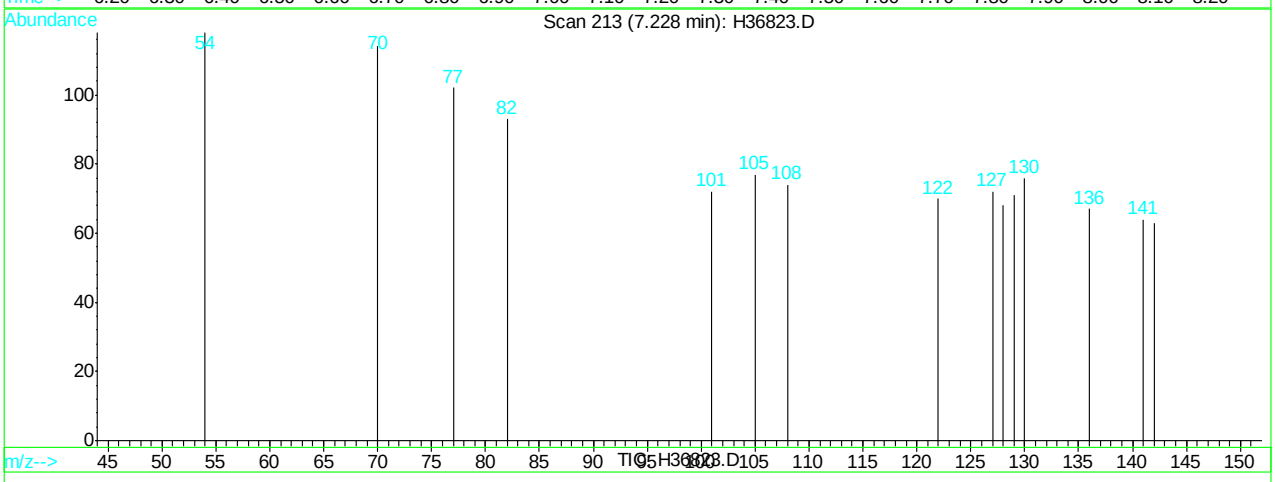
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(3) N-Nitroso-di-n-propylamine (I)

7.23min 0.15ppb m

response 78

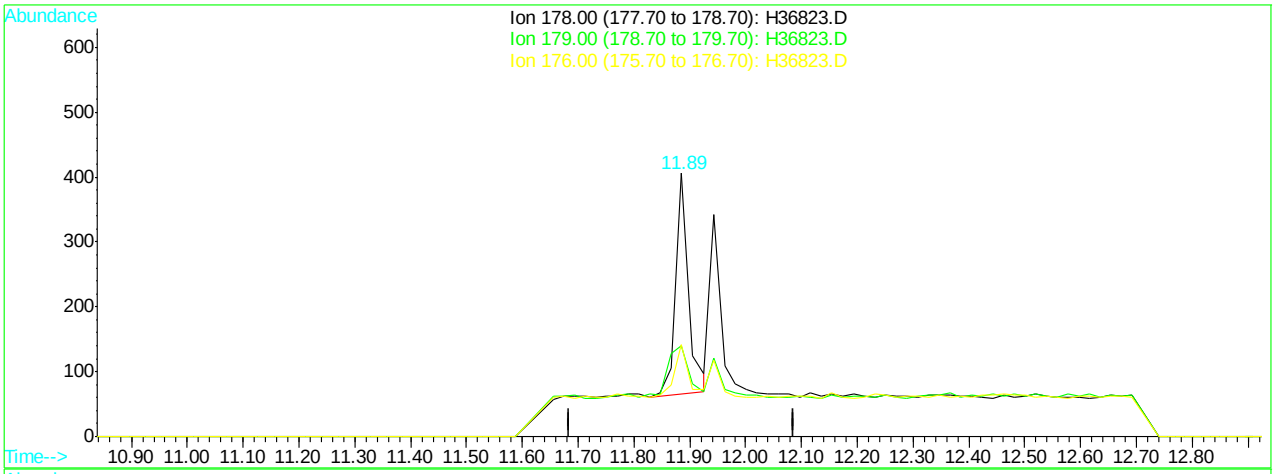
Ion	Exp%	Act%
70.00	100	100
101.00	4.40	63.16#
130.00	0.00	66.67#
0.00	0.00	0.00

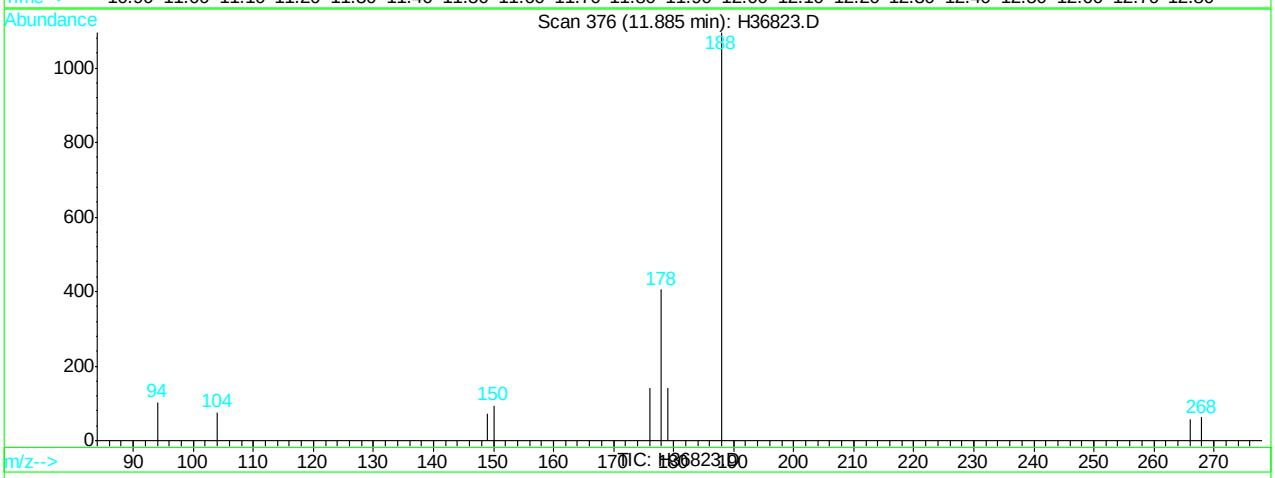
H36823.D H20310SP.M Wed Feb 03 17:10:53 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.89min 0.09ppb m

response 547

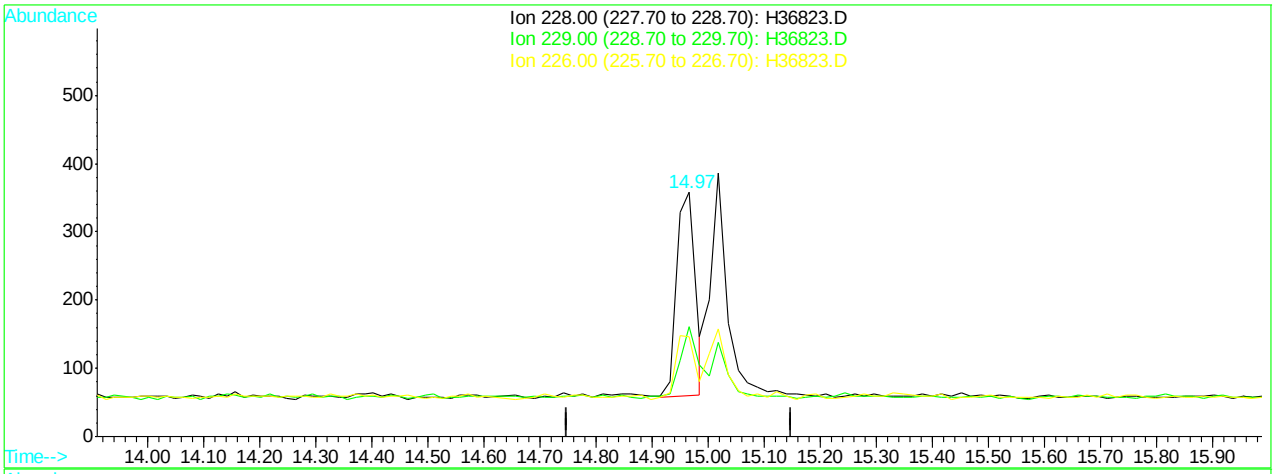
Ion	Exp%	Act%
178.00	100	100
179.00	21.90	34.48#
176.00	17.00	34.73#
0.00	0.00	0.00

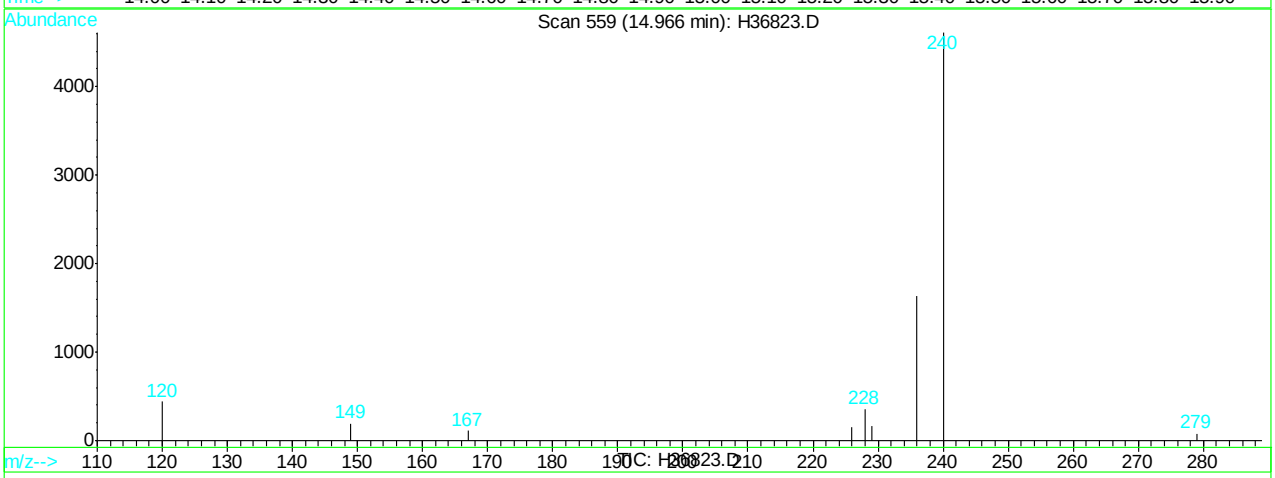
H36823.D H20310SP.M Wed Feb 03 17:10:57 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36823.D Vial: 6
Acq On : 3 Feb 2010 2:14 pm Operator: sheilac
Sample : ic1975-0.1 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:25 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

14.97min 0.11ppb m

response 703

Ion	Exp%	Act%
228.00	100	100
229.00	22.50	44.97#
226.00	25.70	41.06#
0.00	0.00	0.00

H36823.D H20310SP.M Wed Feb 03 17:11:01 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36824.D Vial: 7
Acq On : 3 Feb 2010 2:49 pm Operator: sheilac
Sample : ic1975-0.2 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:20 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 15:18:49 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6156	4.00 ppb	0.00
4) Naphthalene-d8	8.38	136	6773	4.00 ppb	0.00
9) Acenaphthene-d10	10.35	164	5382	4.00 ppb	0.00
15) Phenanthrene-d10	11.87	188	10419	4.00 ppb	0.00
21) Chrysene-d12	14.98	240	14261	4.00 ppb	0.02
26) Perylene-d12	17.81	264	3516	4.00 ppb	0.02

System Monitoring Compounds					
5) Nitrobenzene-d5	7.40	82	1129	0.50 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 10.00%#		
10) 2-Fluorobiphenyl	9.63	172	6483	0.33 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 6.60%#		
16) 2,4,6-Tribromophenol	11.18	330	1274	1.01 ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery = 10.10%		
23) Terphenyl-d14	13.50	244	2480	0.88 ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 17.60%		

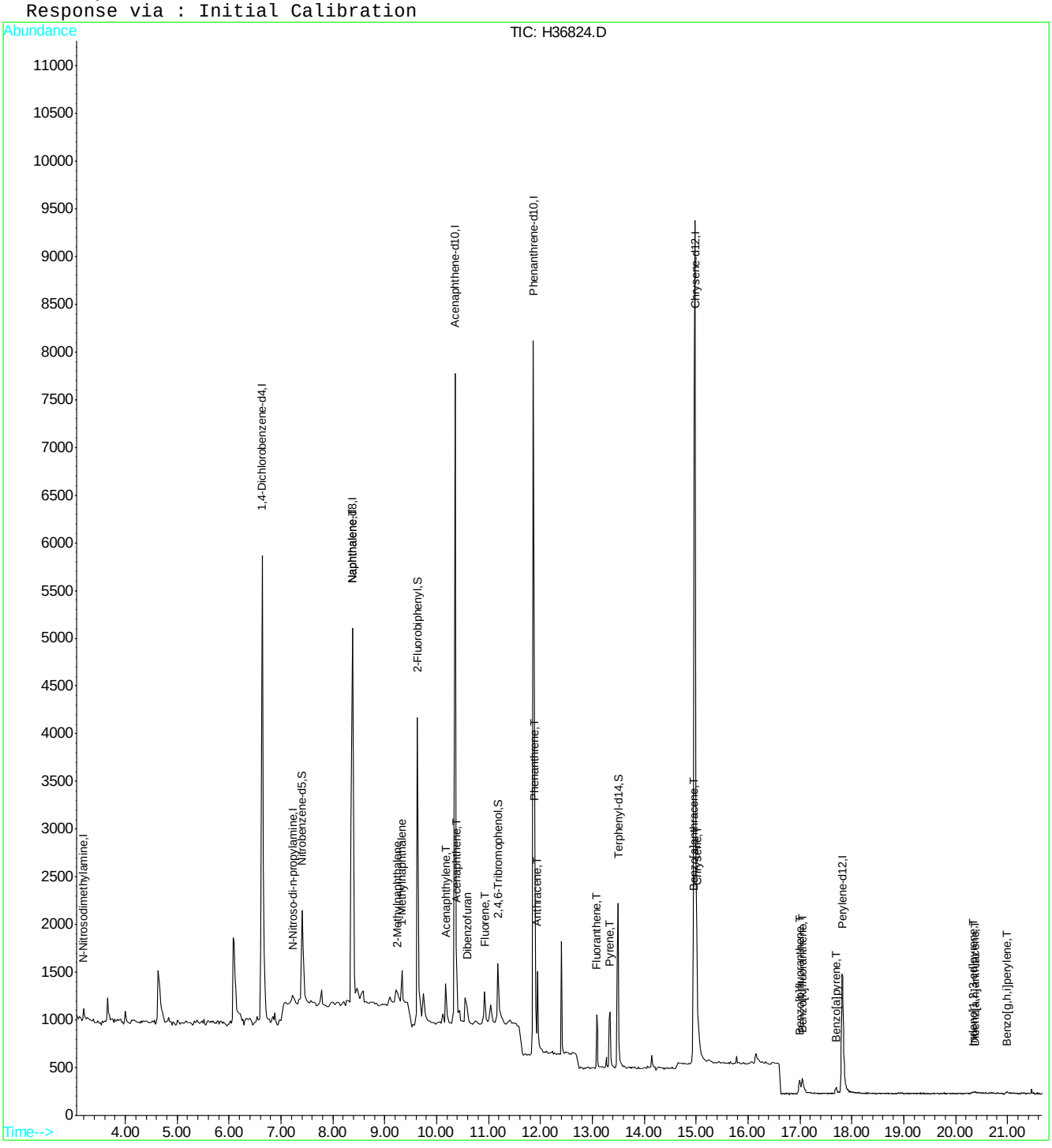
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.19	74	86	0.42 ppb #	70
3) N-Nitroso-di-n-propylamine	7.23	70	161	0.36 ppb #	61
6) Naphthalene	8.38	128	428	0.10 ppb #	82
7) 2-Methylnaphthalene	9.24	142	209	0.07 ppb #	92
8) 1-Methylnaphthalene	9.33	142	280	0.07 ppb #	70
11) Acenaphthylene	10.18	152	594	0.04 ppb #	84
12) Acenaphthene	10.38	153	407	0.14 ppb #	30
13) Dibenzofuran	10.58	168	414	0.03 ppb #	20
14) Fluorene	10.92	166	376	0.10 ppb #	49
18) Phenanthrene	11.88	178	973	0.17 ppb	86
19) Anthracene	11.94	178	839	0.17 ppb #	84
20) Fluoranthene	13.08	202	989	0.13 ppb #	94
22) Pyrene	13.34	202	1124	0.20 ppb #	93
24) Benzo[a]anthracene	14.95	228	1066m	0.18 ppb	
25) Chrysene	15.02	228	1113	0.22 ppb	97
27) Benzo[b]fluoranthene	16.99	252	326	0.24 ppb	100
28) Benzo[k]fluoranthene	17.05	252	486	0.32 ppb	100
29) Benzo[a]pyrene	17.70	252	222	0.18 ppb	100
30) Indeno[1,2,3-cd]pyrene	20.35	276	112m	0.10 ppb	
31) Dibenz[a,h]anthracene	20.37	278	61m	0.07 ppb	
32) Benzo[g,h,i]perylene	20.99	276	63	0.07 ppb	100

(#) = qualifier out of range (m) = manual integration
H36824.D H20310SP.M Wed Feb 03 17:11:19 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36824.D Vial: 7
Acq On : 3 Feb 2010 2:49 pm Operator: sheilac
Sample : ic1975-0.2 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:20 2010 Quant Results File: H20310SP.RES

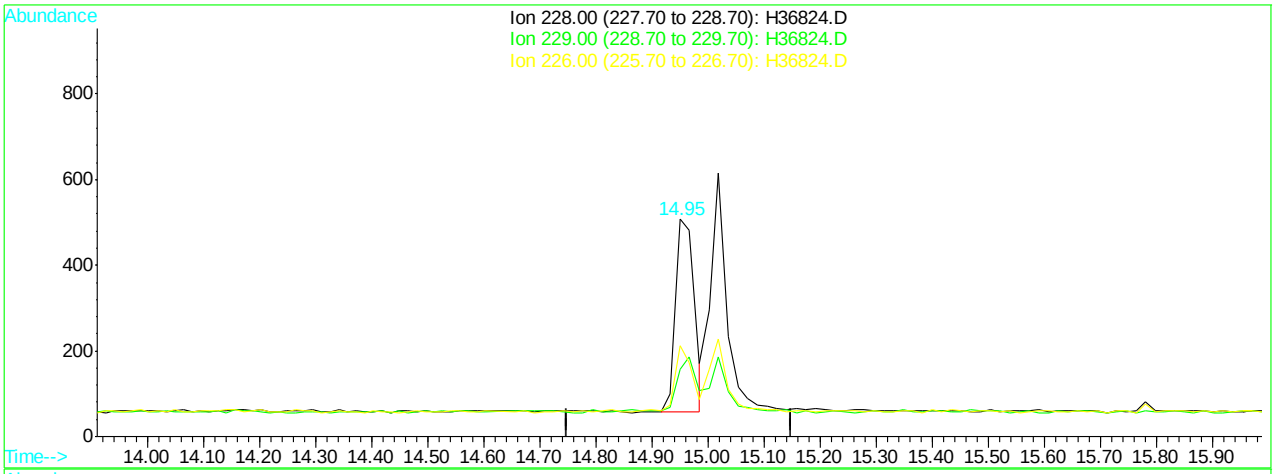
Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Initial Calibration

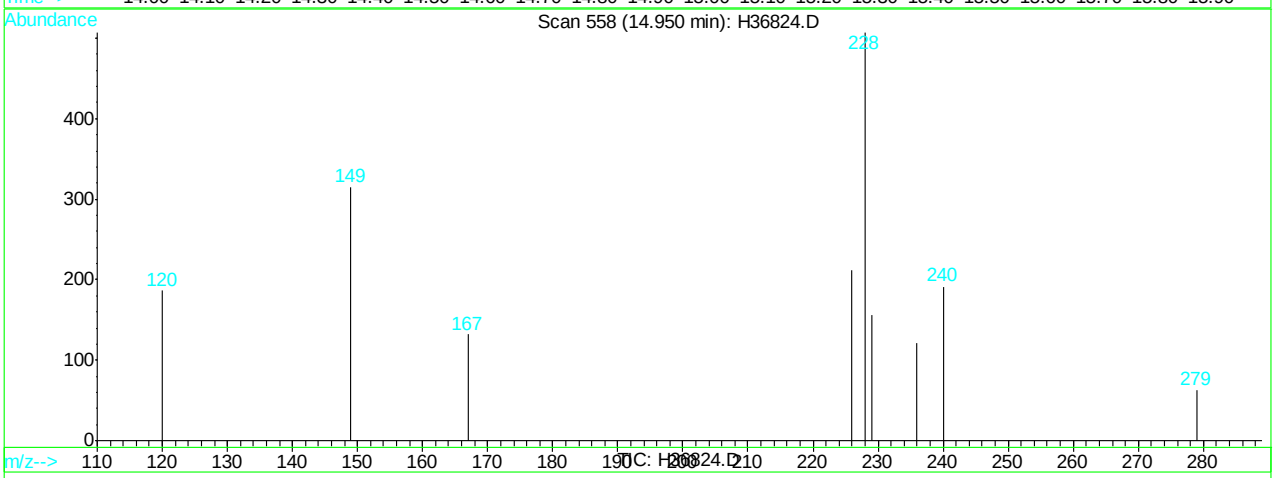


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36824.D Vial: 7
Acq On : 3 Feb 2010 2:49 pm Operator: sheilac
Sample : ic1975-0.2 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:20 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

14.95min 0.18ppb m

response 1066

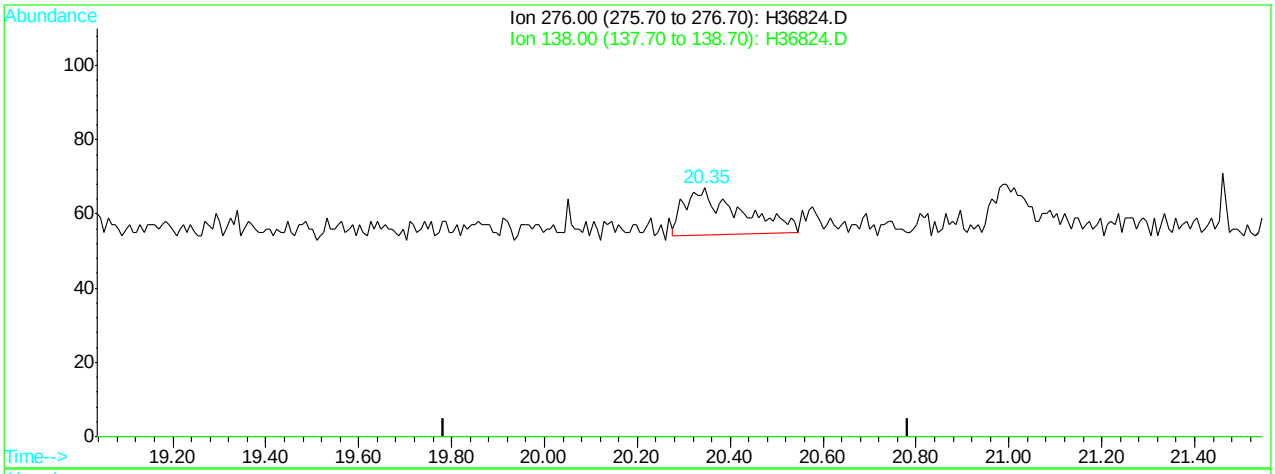
Ion	Exp%	Act%
228.00	100	100
229.00	22.50	30.77#
226.00	25.70	41.81#
0.00	0.00	0.00

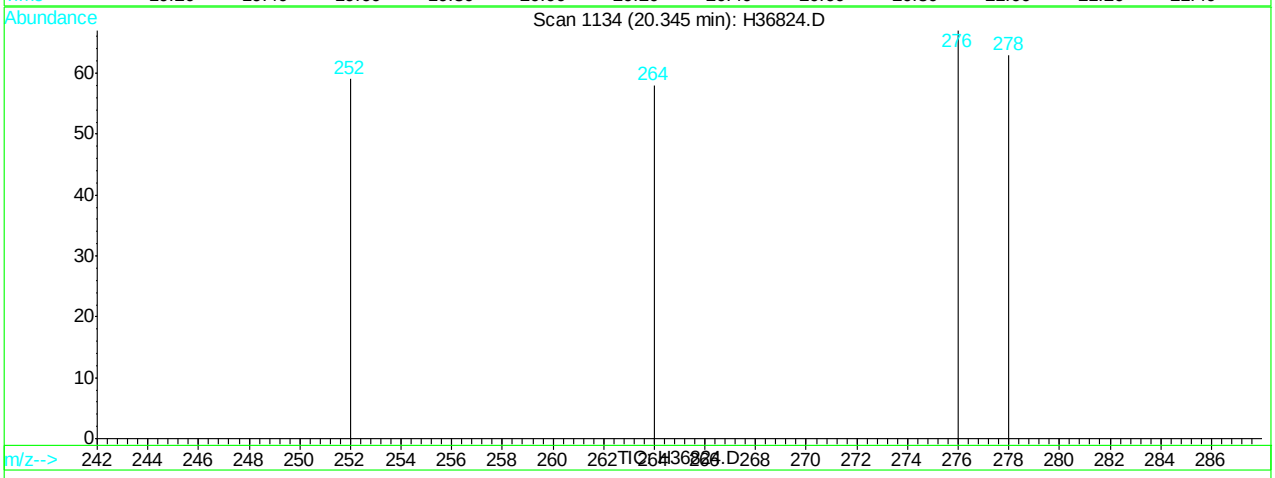
H36824.D H20310SP.M Wed Feb 03 17:11:41 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36824.D Vial: 7
Acq On : 3 Feb 2010 2:49 pm Operator: sheilac
Sample : ic1975-0.2 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:20 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(30) Indeno[1,2,3-cd]pyrene (T)

20.35min 0.10ppb m

response 112

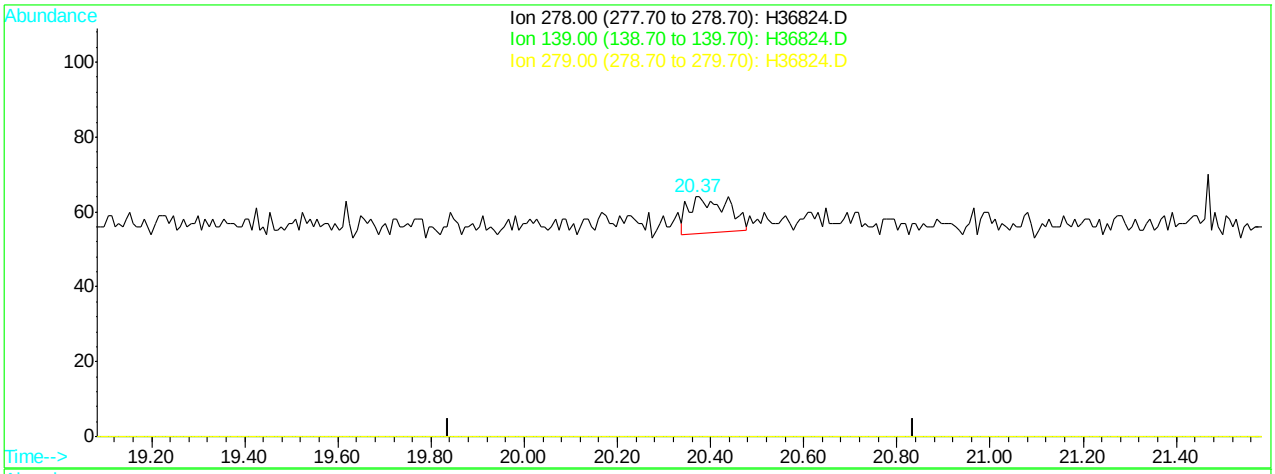
Ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

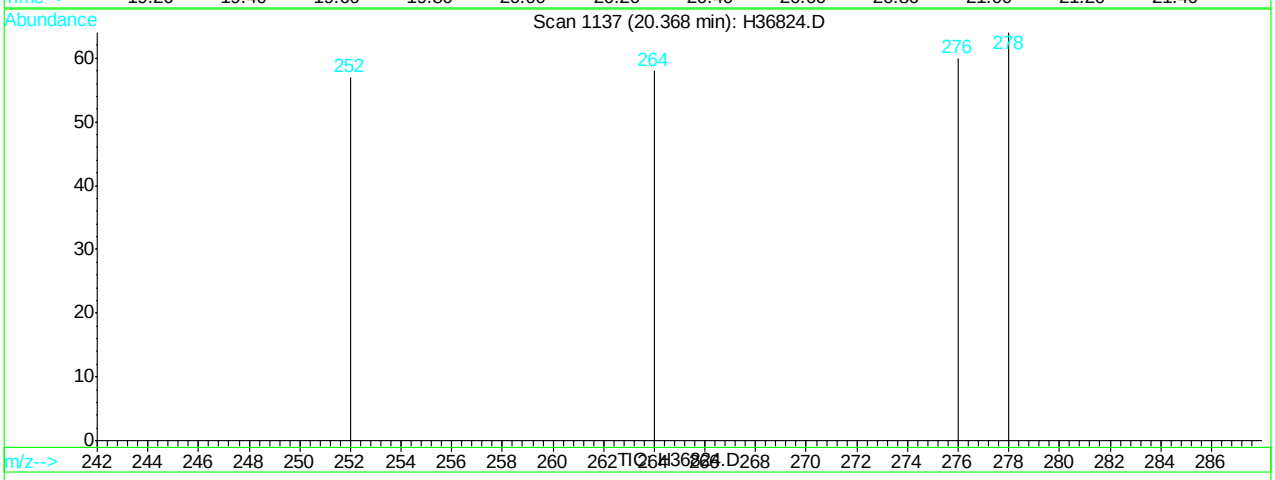
H36824.D H20310SP.M Wed Feb 03 17:11:44 2010

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36824.D Vial: 7
Acq On : 3 Feb 2010 2:49 pm Operator: sheilac
Sample : ic1975-0.2 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 15:20 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

20.37min 0.07ppb m

response 61

Ion	Exp%	Act%
278.00	100	100
139.00	0.00	0.00
279.00	0.00	0.00
0.00	0.00	0.00

H36824.D H20310SP.M Wed Feb 03 17:11:48 2010

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36825.D Vial: 8
Acq On : 3 Feb 2010 3:54 pm Operator: sheilac
Sample : icc1975-2.5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 16:16 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:07:45 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	7740	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	9351	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	6937	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	11894	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	18625	4.00	ppb	0.00
26) Perylene-d12	17.82	264	5985	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	7.40	82	17368	8.81	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	=	176.20%#	
10) 2-Fluorobiphenyl	9.63	172	80045	8.19	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	163.80%#	
16) 2,4,6-Tribromophenol	11.18	330	20689	15.43	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	154.30%#	
23) Terphenyl-d14	13.49	244	40891	9.79	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	195.80%#	

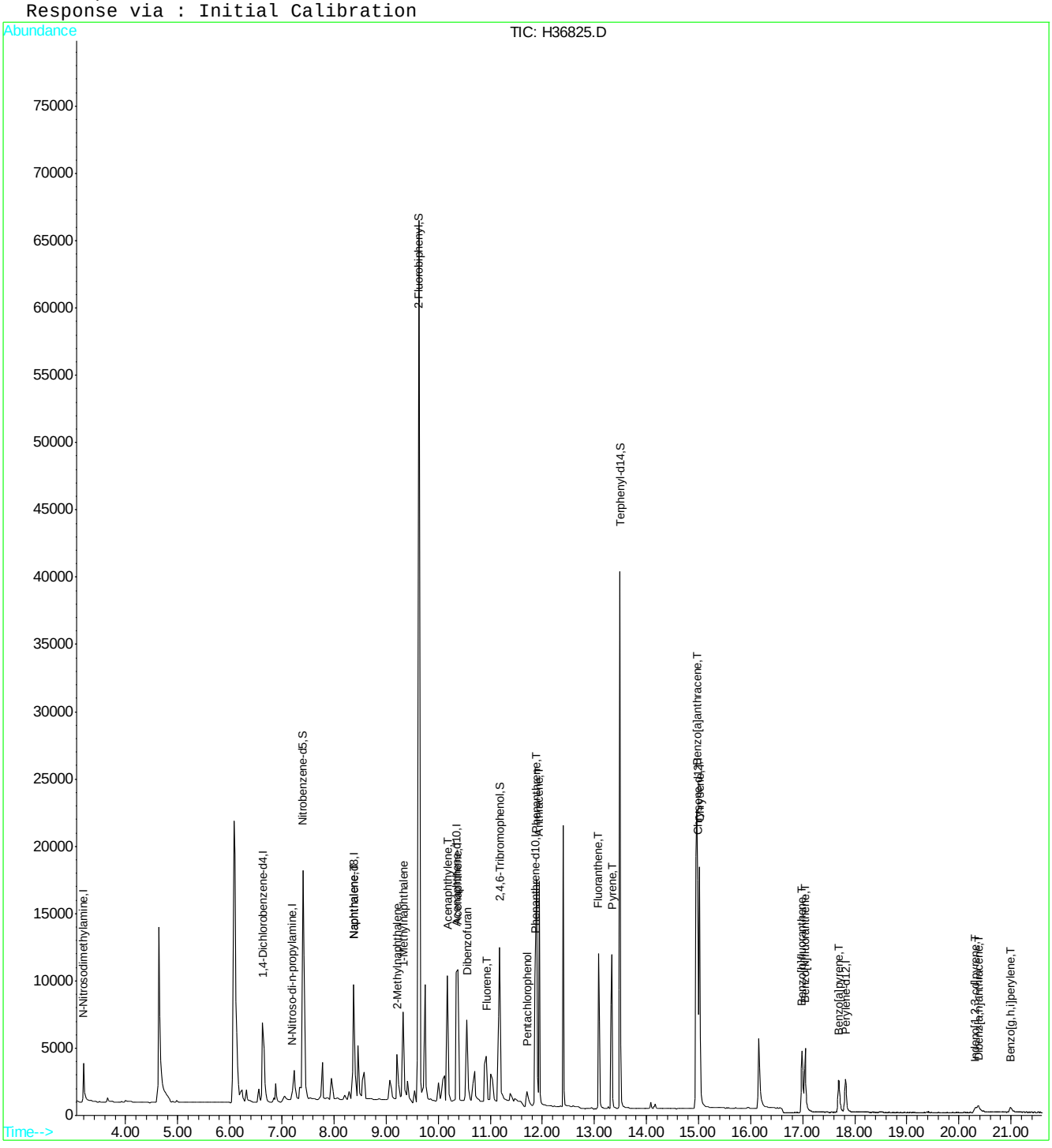
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	3.19	74	1062	2.37	ppb	#	40
3) N-Nitroso-di-n-propylamine	7.20	70	1379	1.92	ppb	#	95
6) Naphthalene	8.38	128	5858	2.11	ppb		91
7) 2-Methylnaphthalene	9.21	142	3374	2.21	ppb	#	99
8) 1-Methylnaphthalene	9.33	142	5423	2.24	ppb	#	94
11) Acenaphthylene	10.18	152	9866	2.20	ppb		93
12) Acenaphthene	10.38	153	6492	2.40	ppb		89
13) Dibenzofuran	10.55	168	5504	2.08	ppb	#	42
14) Fluorene	10.93	166	3719	1.98	ppb	#	24
17) Pentachlorophenol	11.71	266	3355	2.87	ppb		100
18) Phenanthrene	11.88	178	14079	2.57	ppb		94
19) Anthracene	11.94	178	14319	3.02	ppb		95
20) Fluoranthene	13.08	202	16863	2.73	ppb	#	96
22) Pyrene	13.34	202	17816	2.39	ppb	#	92
24) Benzo[a]anthracene	14.97	228	18065	2.49	ppb		91
25) Chrysene	15.02	228	18331	2.54	ppb		93
27) Benzo[b]fluoranthene	16.99	252	9611	2.56	ppb		100
28) Benzo[k]fluoranthene	17.05	252	11203	2.42	ppb		100
29) Benzo[a]pyrene	17.69	252	6186	2.61	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.32	276	2089	2.82	ppb		100
31) Dibenz[a,h]anthracene	20.38	278	1447	2.64	ppb		100
32) Benzo[g,h,i]perylene	20.99	276	1557	2.46	ppb		100

(#) = qualifier out of range (m) = manual integration
H36825.D H20310SP.M Wed Feb 03 17:11:57 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36825.D Vial: 8
Acq On : 3 Feb 2010 3:54 pm Operator: sheilac
Sample : icc1975-2.5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 16:16 2010 Quant Results File: H20310SP.RES

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:03:51 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/04/10 13:13

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1975\H36826.D Vial: 9
Acq On : 3 Feb 2010 4:23 pm Operator: sheilac
Sample : icv1975-2.5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 16:53 2010 Quant Results File: H20310SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 16:52:59 2010
Response via : Initial Calibration
DataAcq Meth : HSIMSPNW

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	6854	4.00	ppb	0.00
4) Naphthalene-d8	8.38	136	8925	4.00	ppb	0.00
9) Acenaphthene-d10	10.35	164	5200	4.00	ppb	0.00
15) Phenanthrene-d10	11.87	188	10483	4.00	ppb	0.00
21) Chrysene-d12	14.98	240	14534	4.00	ppb	0.00
26) Perylene-d12	17.81	264	4279	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	0	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0	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

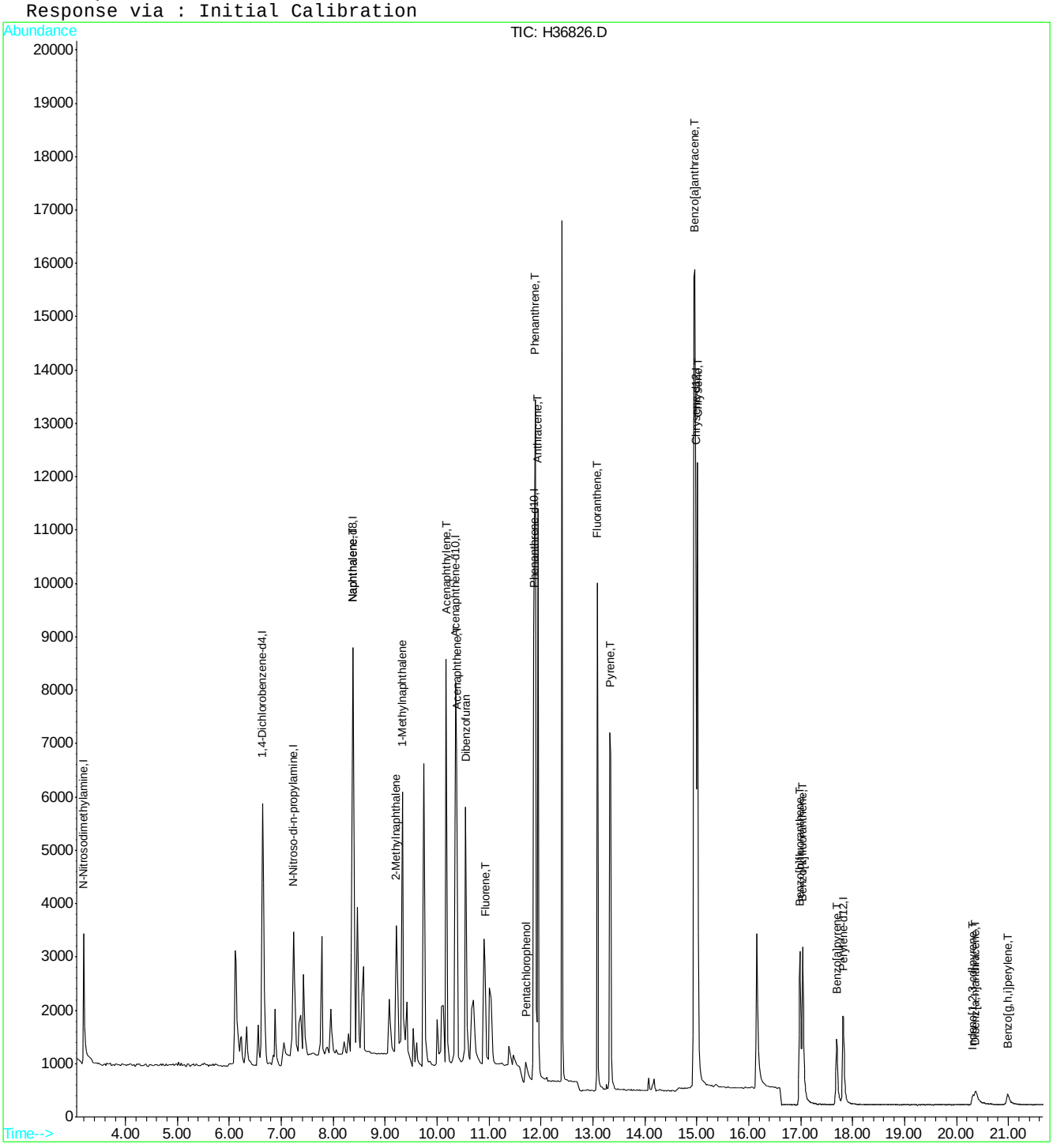
							Qvalue
2) N-Nitrosodimethylamine	3.19	74	838	2.11	ppb	#	19
3) N-Nitroso-di-n-propylamine	7.23	70	1132	2.39	ppb	#	1
6) Naphthalene	8.38	128	4691	1.90	ppb		100
7) 2-Methylnaphthalene	9.21	142	3269m	2.12	ppb		
8) 1-Methylnaphthalene	9.33	142	6360	2.57	ppb	#	86
11) Acenaphthylene	10.18	152	8146	2.46	ppb		99
12) Acenaphthene	10.38	153	3923	1.93	ppb		95
13) Dibenzofuran	10.55	168	4686	2.47	ppb		82
14) Fluorene	10.93	166	2331	2.17	ppb		97
17) Pentachlorophenol	11.71	266	1946	2.01	ppb		100
18) Phenanthrene	11.88	178	10913	2.26	ppb		97
19) Anthracene	11.94	178	9359	2.24	ppb		98
20) Fluoranthene	13.08	202	12719	2.34	ppb		98
22) Pyrene	13.33	202	12411	2.13	ppb	#	90
24) Benzo[a]anthracene	14.95	228	12470	2.20	ppb		88
25) Chrysene	15.02	228	12387	2.20	ppb		97
27) Benzo[b]fluoranthene	16.99	252	6158	2.29	ppb		100
28) Benzo[k]fluoranthene	17.04	252	6935	2.14	ppb		100
29) Benzo[a]pyrene	17.69	252	3271	1.88	ppb		100
30) Indeno[1,2,3-cd]pyrene	20.32	276	1130	2.00	ppb		100
31) Dibenz[a,h]anthracene	20.37	278	758	1.91	ppb		100
32) Benzo[g,h,i]perylene	20.99	276	867	1.98	ppb		100

(#) = qualifier out of range (m) = manual integration
H36826.D H20310SP.M Wed Feb 03 17:12:10 2010

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1975\H36826.D Vial: 9
Acq On : 3 Feb 2010 4:23 pm Operator: sheilac
Sample : icv1975-2.5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 16:53 2010 Quant Results File: H20310SP.RES

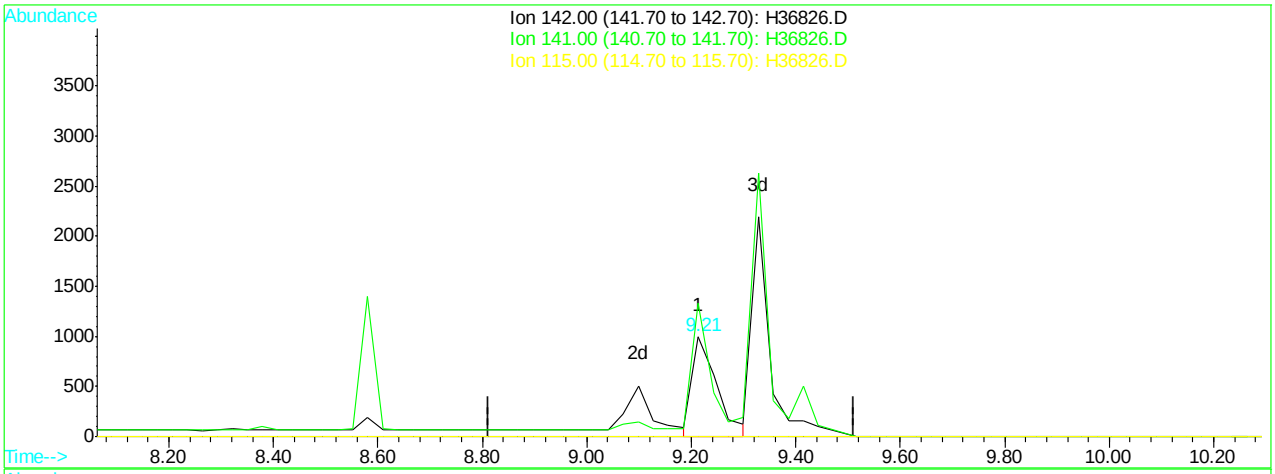
Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:12:05 2010
Response via : Initial Calibration

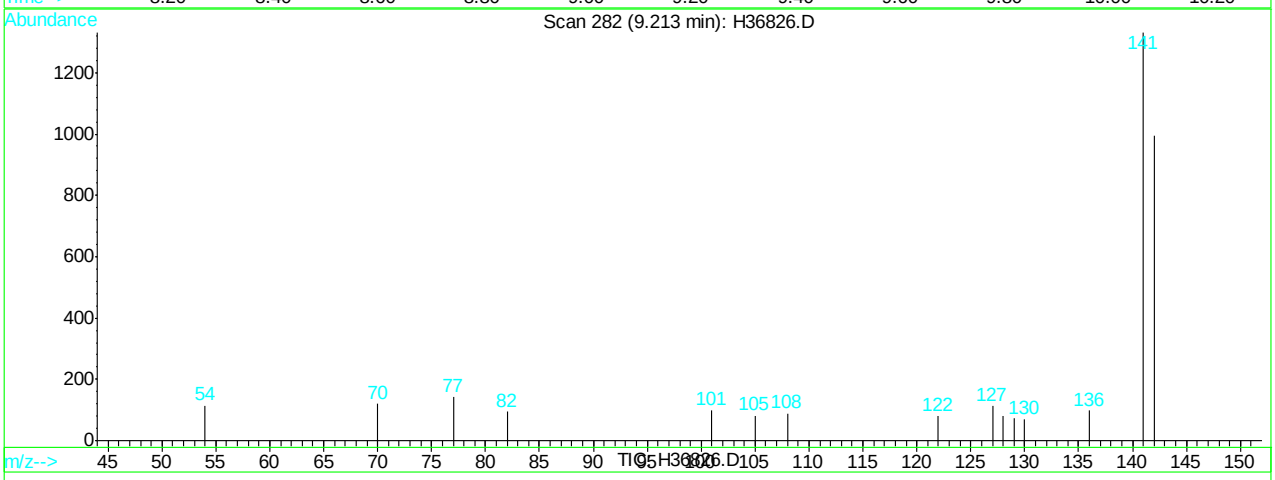


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1975\H36826.D Vial: 9
Acq On : 3 Feb 2010 4:23 pm Operator: sheilac
Sample : icv1975-2.5 Inst : TXMSH
Misc : OP13411,EH1975,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 3 16:53 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H20310SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Feb 03 17:12:05 2010
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

9.21min 2.12ppb m

response 3269

Ion	Exp%	Act%
142.00	100	100
141.00	112.90	88.65
115.00	0.00	0.00
0.00	0.00	0.00

H36826.D H20310SP.M Wed Feb 03 17:12:22 2010

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.377	152	391218	40.00	ppm	-0.01
31) Naphthalene-d8	6.724	136	1305402	40.00	ppm	-0.02
57) Acenaphthene-d10	9.404	164	769676	40.00	ppm	-0.02
88) Phenanthrene-d10	12.303	188	1156734	40.00	ppm	-0.03
118) Chrysene-d12	17.914	240	1147980	40.00	ppm	-0.03
134) Perylene-d12	20.861	264	990216	40.00	ppm	-0.02
System Monitoring Compounds						
13) 2-Fluorophenol	4.334	112	318186	22.03	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 22.03%			
15) Phenol-d5	5.131	99	414296	24.56	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 24.56%			
32) Nitrobenzene-d5	5.917	82	191708	11.69	ppm	-0.03
Spiked Amount 50.000	Range 29 - 115		Recovery = 23.38%#			
61) 2-Fluorobiphenyl	8.244	172	358062	13.10	ppm	-0.03
Spiked Amount 50.000	Range 34 - 113		Recovery = 26.20%#			
93) 2,4,6-Tribromophenol	10.907	330	58328	19.44	ppm	-0.05
Spiked Amount 100.000	Range 32 - 128		Recovery = 19.44%#			
121) Terphenyl-d14	15.694	244	272696	9.20	ppm	-0.04
Spiked Amount 50.000	Range 12 - 145		Recovery = 18.40%			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.820	79	73849	4.74	ppm	# 48
3) 1,4-Dioxane	2.756	88	29552m	4.80	ppm	
4) N-nitrosodimethylamine	3.082	42	35607	4.50	ppm	# 76
5) Pyridine	3.077	79	71959	4.42	ppm	98
6) 2-Picoline	3.756	93	85530	4.50	ppm	# 75
7) N-Nitrosomethylethylamine	3.874	42	48715	4.47	ppm	93
8) Methyl methanesulfonate	4.130	80	47873	4.81	ppm	# 84
9) N-Nitrosodiethylamine	4.462	102	41363	4.82	ppm	97
10) Ethyl methanesulfonate	4.708	79	65678	4.75	ppm	# 87
11) Benzaldehyde	4.992	106	53885	11.57	ppm	99
12) Aniline	5.088	93	117532	5.84	ppm	90
14) bis(2-Chloroethyl)ether	5.131	93	97698	5.69	ppm	97
16) Phenol	5.147	94	107333	5.64	ppm	# 97
17) 2-Chlorophenol	5.238	128	78153	5.25	ppm	98
18) 1,3-Dichlorobenzene	5.329	146	95457	5.23	ppm	99
19) 1,4-Dichlorobenzene	5.393	146	89128	5.23	ppm	97
20) 1,2-Dichlorobenzene	5.542	146	90569	5.68	ppm	99
21) Benzyl alcohol	5.516	108	51543	5.05	ppm	93
22) bis(2-chloroisopropyl)...	5.628	45	175132	5.52	ppm	# 90
23) 2-Methylphenol	5.671	108	77723	4.93	ppm	99
24) N-Nitrosopyrrolidine	5.735	100	43872	5.98	ppm	# 4
25) N-Nitrosomorpholine	5.762	56	65130	5.98	ppm	# 78
26) o-Toluidine	5.799	106	127542	5.80	ppm	96
27) Acetophenone	5.762	105	109998	5.46	ppm	# 98
28) Hexachloroethane	5.874	117	36126	5.34	ppm	97
29) N-Nitroso-di-n-propyla...	5.756	70	66201	5.93	ppm	# 91
30) 3&4-Methylphenol	5.821	108	86328	5.91	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Nitrobenzene	5.933	77	90459	5.81	ppm	#	89
34) N-Nitrosopiperidine	6.083	42	66858	5.29	ppm		98
35) A,A-Dimethylphenethyla...	6.837	58	207963m	3.89	ppm		
36) Isophorone	6.179	82	177818	5.54	ppm	#	95
37) 2-Nitrophenol	6.275	139	35740	4.83	ppm	#	31
38) 2,4-Dimethylphenol	6.345	107	80815	5.69	ppm		95
39) bis(2-Chloroethoxy)met...	6.404	93	106307	5.86	ppm	#	88
40) O,O,O-Triethyl phospho...	6.372	121	38004	6.88	ppm		84
42) 2,4-Dichlorophenol	6.607	162	57074	5.14	ppm		99
43) 1,2,4-Trichlorobenzene	6.655	180	71109	5.67	ppm		99
44) Naphthalene	6.751	128	219723	6.00	ppm		99
45) 4-Chloroaniline	6.810	127	79538	5.27	ppm		98
46) 2,6-Dichlorophenol	6.837	162	58363	5.75	ppm	#	82
47) Hexachloropropene	6.864	213	25585	4.24	ppm	#	19
48) Hexachlorobutadiene	6.906	225	44156	5.72	ppm		99
50) Caprolactam	7.227	113	23123m	4.46	ppm		
51) N-Nitrosodi-n-butylamine	7.233	84	72098	6.18	ppm	#	85
52) 4-Chloro-3-methylphenol	7.527	107	61154	5.26	ppm	#	86
53) Isosafrole	7.543	162	57915	5.81	ppm		97
54) 2-Methylnaphthalene	7.682	142	140994	5.66	ppm		97
55) 1-Methylnaphthalene	7.826	142	139531	5.73	ppm		98
56) 1,2,4,5-Tetrachloroben...	7.939	216	63632	5.56	ppm		100
58) Hexachlorocyclopentadiene	7.939	237	968m	0.41	ppm		
59) 2,4,6-Trichlorophenol	8.142	196	34820	4.62	ppm	#	86
60) 2,4,5-Trichlorophenol	8.276	196	33942	4.97	ppm	#	83
62) Safrole	8.345	162	56194	5.53	ppm		97
63) 1,1'-Biphenyl	8.404	154	172750	6.21	ppm		99
64) 2-Chloronaphthalene	8.436	162	154674	5.45	ppm		93
65) 1-Chloronaphthalene	8.479	162	124725	6.80	ppm		99
66) 2-Nitroaniline	8.613	65	42286	4.96	ppm		98
67) 1,4-Naphthoquinone	8.725	158	46374	5.68	ppm		99
68) Acenaphthylene	9.142	152	212752	5.84	ppm		99
69) Dimethylphthalate	8.923	163	164533	5.37	ppm	#	76
70) m-Dinitrobenzene	8.976	168	22297	4.84	ppm	#	2
71) 2,6-Dinitrotoluene	9.024	165	37737	5.52	ppm		84
72) Acenaphthene	9.458	153	135187	5.76	ppm		99
73) 3-Nitroaniline	9.329	138	28839	4.48	ppm	#	96
74) 2,4-Dinitrophenol	9.543	184	1869m	0.77	ppm		
75) Dibenzofuran	9.773	168	168443	5.64	ppm		97
76) Pentachlorobenzene	9.720	250	52309	5.35	ppm		99
77) 2,4-Dinitrotoluene	9.763	165	40706	4.88	ppm		96
78) 4-Nitrophenol	9.912	109	8188m	2.85	ppm		
79) 1-Naphthylamine	9.912	143	55243	3.60	ppm	#	80
80) 2-Naphthylamine	10.062	143	25679	2.09	ppm	#	36
81) 2,3,4,6-Tetrachlorophenol	9.976	232	10596m	2.37	ppm		
82) Fluorene	10.420	166	142236	6.01	ppm	#	94
83) 4-Chlorophenyl-phenyle...	10.431	204	74445	6.24	ppm		99
84) Diethylphthalate	10.233	149	161199	5.49	ppm	#	89
85) 5-Nitro-o-toluidine	10.453	152	35305	4.59	ppm	#	50
86) Thionazin	10.383	97	36871	6.17	ppm	#	68

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
87)	4-Nitroaniline	10.479	138	26884	4.35	ppm	#	20
89)	4,6-Dinitro-2-methylph...	10.559	198	11189m	3.04	ppm		
90)	n-Nitrosodiphenylamine	10.666	169	132726	6.03	ppm		100
91)	1,2-Diphenylhydrazine	10.741	77	155655	5.49	ppm		99
92)	Diphenylamine	10.666	169	132726	6.03	ppm		100
94)	Tetraethyl dithiopyrop...	11.019	97	27124	6.29	ppm	#	56
95)	sym-Trinitrobenzene	11.276	213	9756m	4.05	ppm		
96)	Diallate	11.260	43	91838	6.79	ppm		96
97)	Phorate	11.271	75	125399	6.57	ppm	#	91
98)	4-Bromophenyl-phenylether	11.394	248	41514	6.05	ppm		99
99)	Phenacetin	11.319	108	56923	5.16	ppm		94
100)	Hexachlorobenzene	11.538	284	39409	5.80	ppm	#	37
101)	Dimethoate	11.592	87	64280	8.52	ppm		98
102)	Atrazine	11.774	200	42602	9.35	ppm		99
103)	4-aminobiphenyl	11.934	169	84050	4.85	ppm	#	64
104)	Pentachlorophenol	11.988	266	2985m	1.49	ppm		
105)	Pentachloronitrobenzene	11.977	237	17197m	5.63	ppm		
106)	Pronamide	12.105	173	70971	5.91	ppm		99
107)	Phenanthrene	12.341	178	190806	6.20	ppm		99
108)	Anthracene	12.448	178	187133	5.65	ppm		99
109)	Disulfoton	12.341	88	114166	7.27	ppm		92
110)	Carbazole	12.806	167	157905	5.28	ppm	#	85
111)	Methyl parathion	13.116	109	48179	7.36	ppm		98
112)	Di-n-butylphthalate	13.603	149	283446	6.38	ppm	#	94
113)	4-Nitroquinoline 1-Oxide	13.967	190	567m	0.71	ppm		
114)	Parathion	13.956	97	32220	5.94	ppm	#	73
115)	Methapyrilene	14.191	58	17394m	4.17	ppm		
116)	Isodrin	14.517	193	27032	6.33	ppm		99
117)	Fluoranthene	14.838	202	197648	5.79	ppm		98
119)	Benzidine	15.154	184	41681	4.90	ppm	#	68
120)	Pyrene	15.309	202	212880	4.40	ppm		98
122)	Aramite	15.860	185	16915m	5.05	ppm		
123)	p-(Dimethylamine)azobe...	15.999	120	52864	4.08	ppm		95
124)	Chlorobenzilate	16.122	139	78923	4.81	ppm		96
126)	3,3'-Dimethylbenzidine	16.716	212	87579	6.51	ppm	#	65
127)	Famphur	16.630	218	46956	18.97	ppm	#	100
128)	Butylbenzylphthalate	16.775	149	119464	5.05	ppm		99
129)	2-Acetylaminofluorene	17.261	181	62656	5.25	ppm	#	77
130)	3,3'-Dichlorobenzidine	17.855	252	53953	5.74	ppm	#	91
131)	Benzo[a]anthracene	17.882	228	183298	5.20	ppm		99
132)	Chrysene	17.962	228	183096	5.51	ppm		98
133)	bis(2-Ethylhexyl)phtha...	18.042	149	175979	5.60	ppm	#	96
135)	Di-n-octylphthalate	19.342	149	271821	4.35	ppm		100
136)	Benzo[b]fluoranthene	20.053	252	179927m	4.91	ppm		
137)	Benzo[k]fluoranthene	20.107	252	172797	5.44	ppm		100
138)	7,12-Dimethylbenz(a)an...	20.037	256	53166	3.47	ppm	#	84
140)	Benzo[a]pyrene	20.727	252	156741	5.12	ppm		99
141)	3-Methylcholanthrene	21.508	268	72911	5.49	ppm		100
142)	Indeno[1,2,3-cd]pyrene	23.471	276	141183	5.80	ppm		98
143)	Dibenz[a,h]anthracene	23.509	278	117756	5.75	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
144) Benzo[g,h,i]perylene	24.241	276	116158	5.91 ppm	99

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

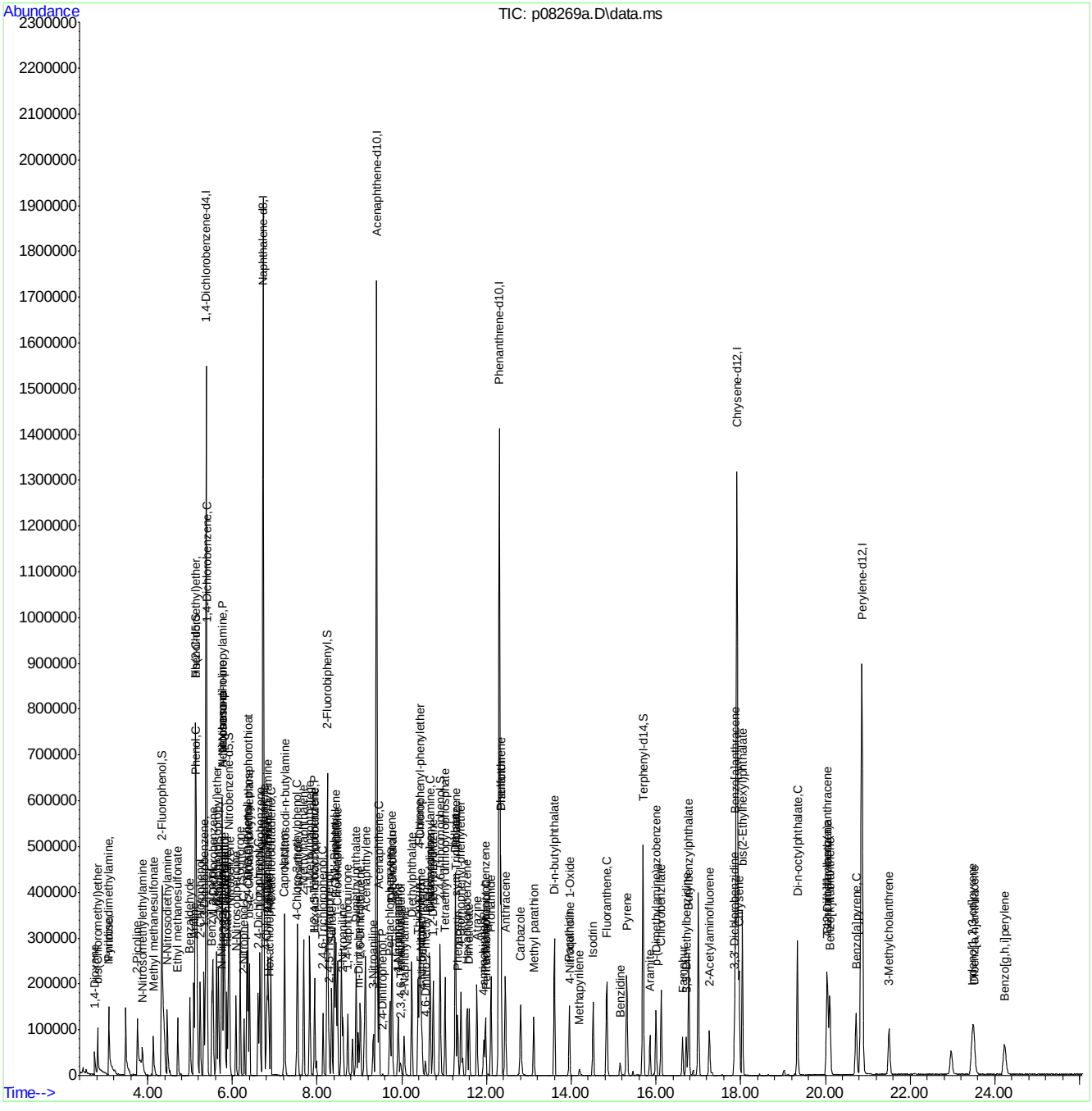
8.6.8

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

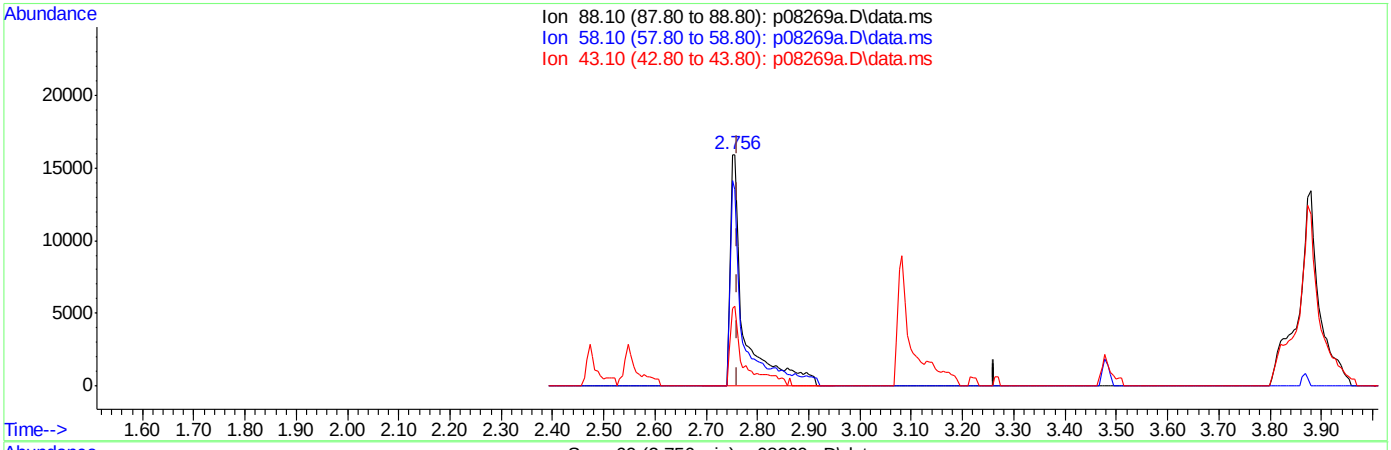
Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration

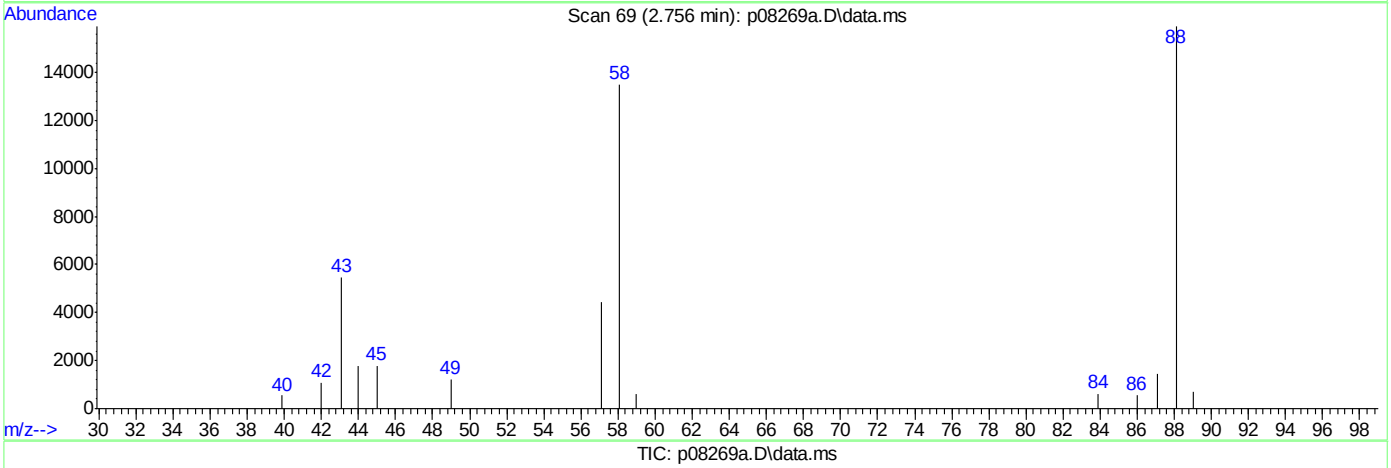


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





TIC: p08269a.D\data.ms

(3) 1,4-Dioxane

2.756min (-0.005) 4.80ppm m

response 29552

Ion	Exp%	Act%
88.10	100	100
58.10	73.00	81.82
43.10	29.90	0.00
0.00	0.00	0.00

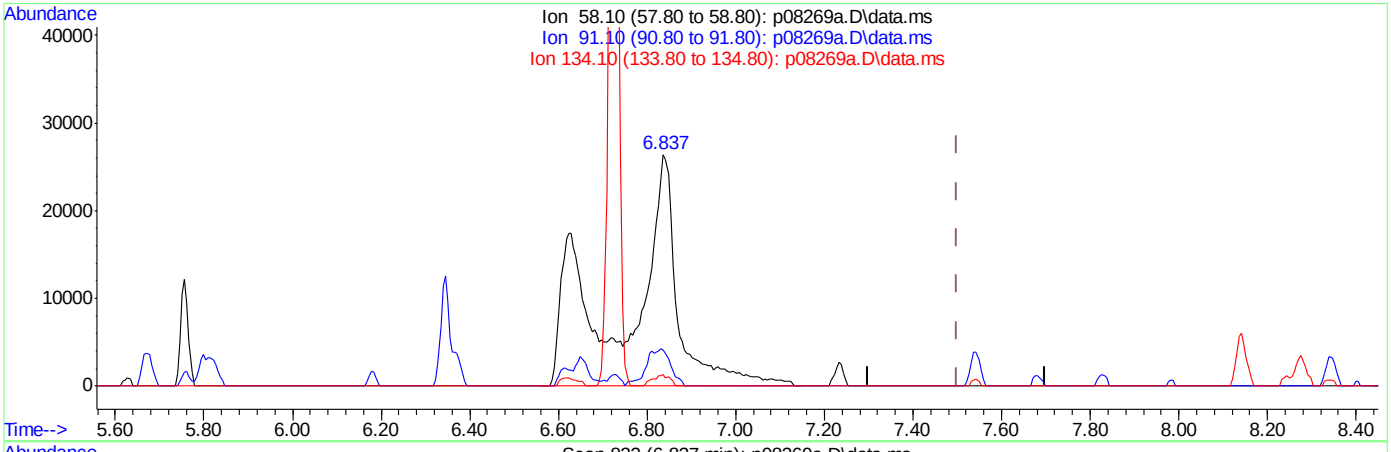
8.6.8.1

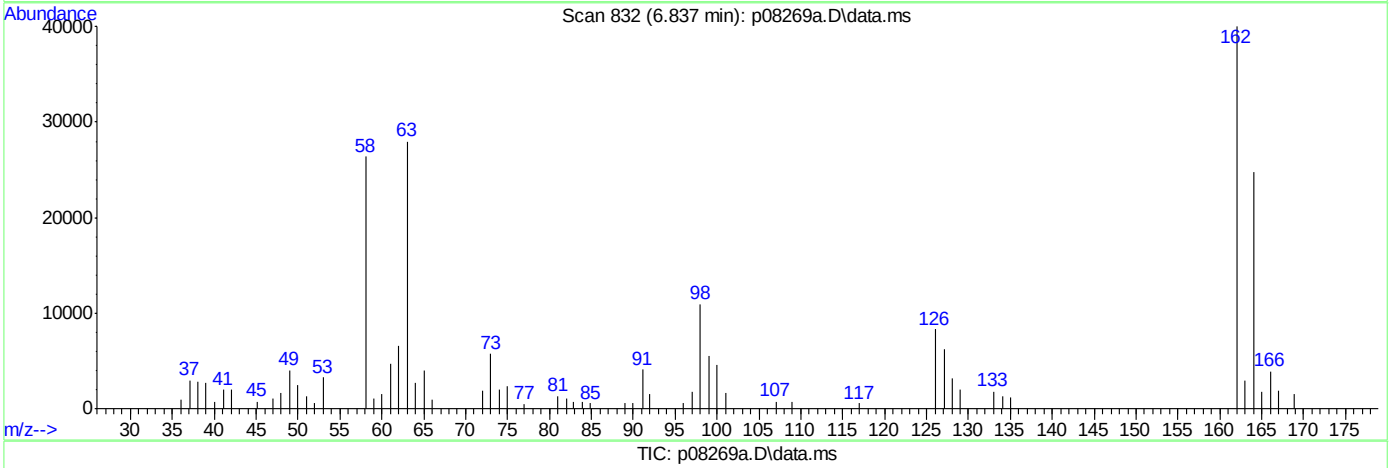
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration





(35) A,A-Dimethylphenethylamine

6.837min (-0.663) 3.89ppm m

response 207963

Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

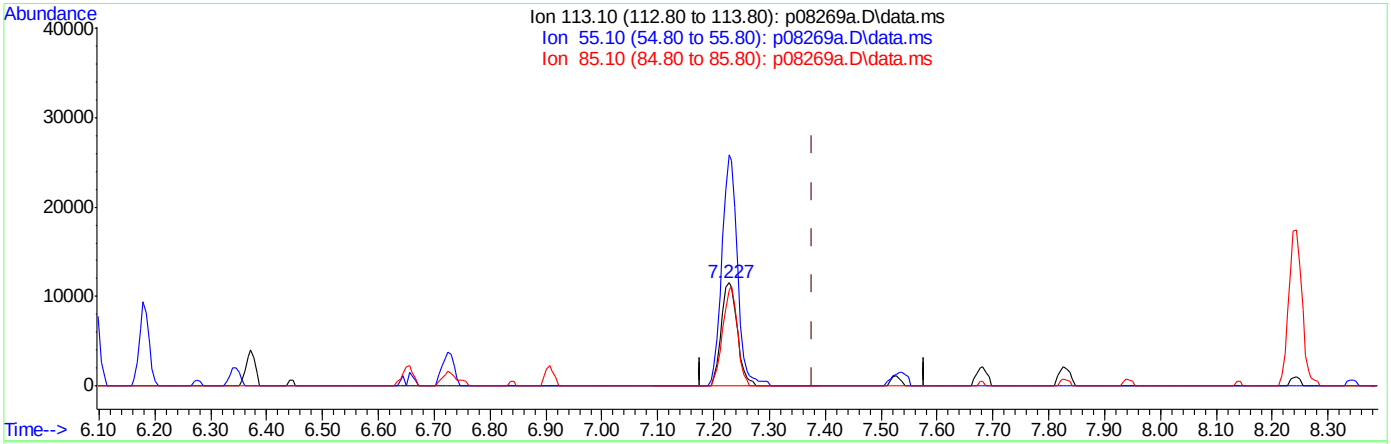
8.6.8.2

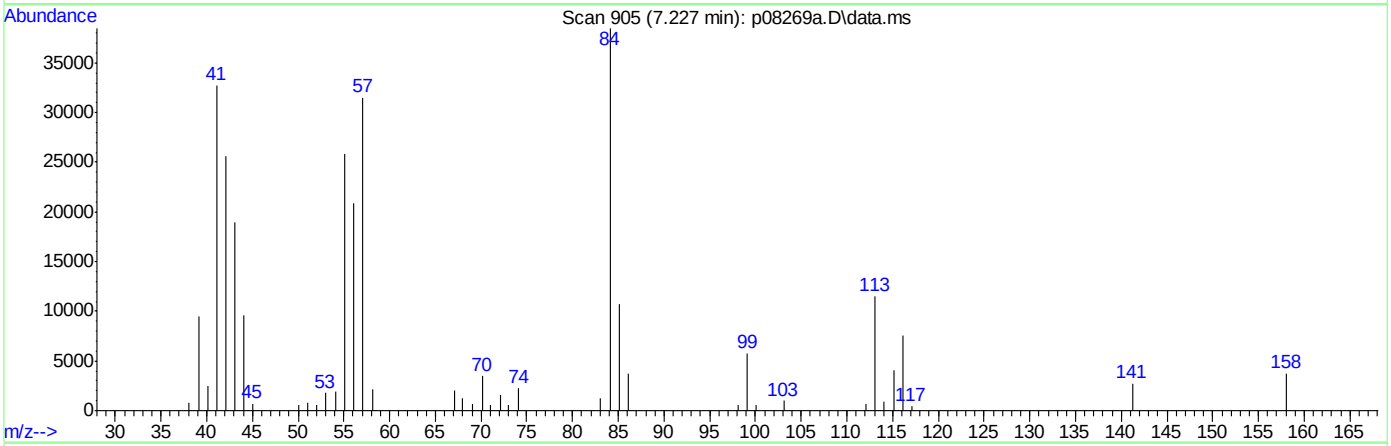
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





(50) Caprolactam

7.227min (-0.150) 4.46ppm m

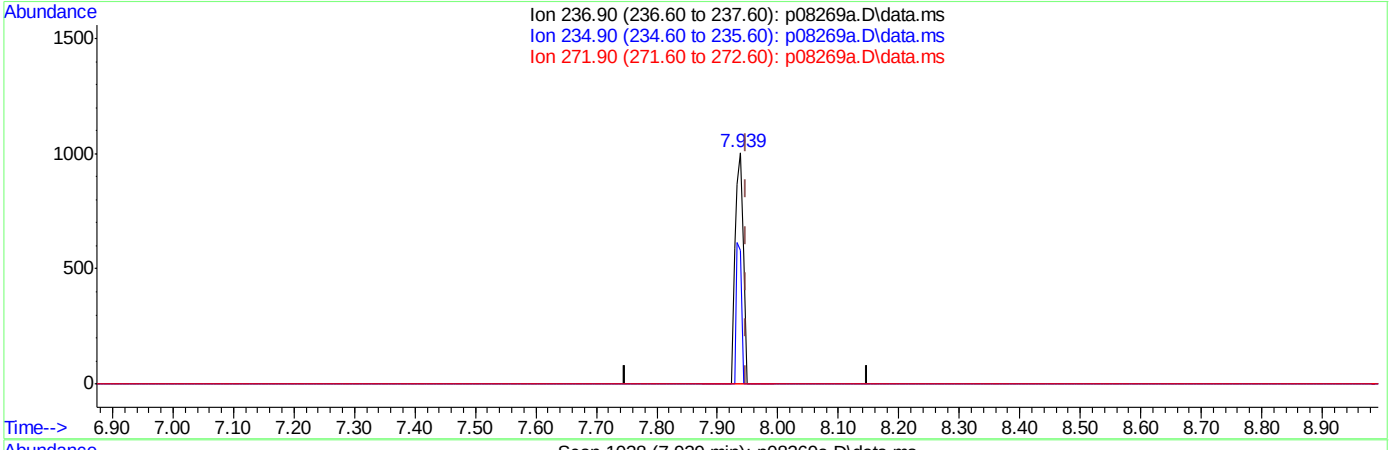
response 23123

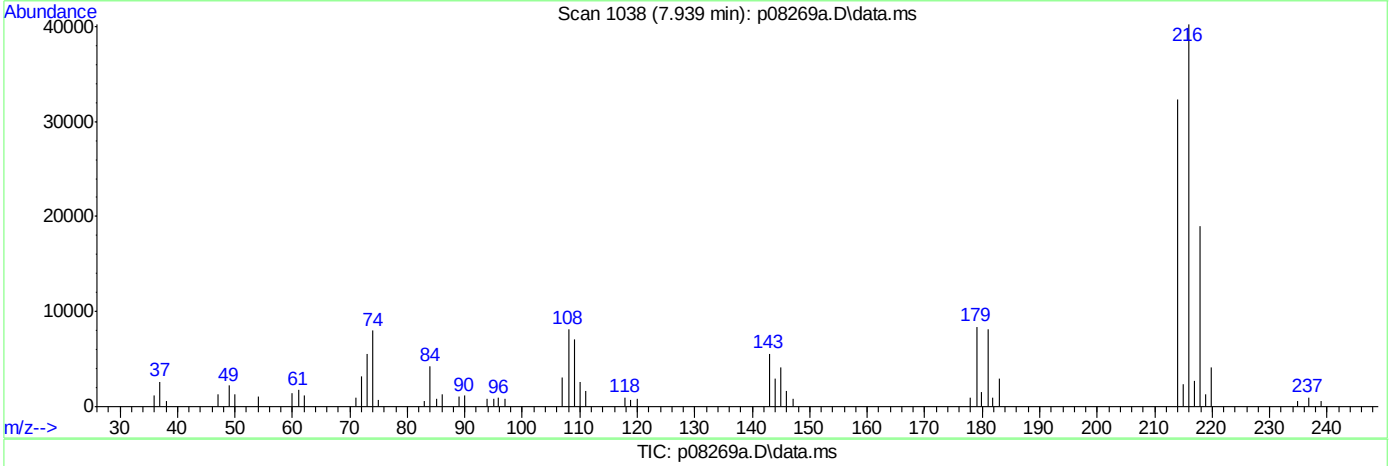
Ion	Exp%	Act%
113.10	100	100
55.10	184.60	0.00#
85.10	69.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration





(58) Hexachlorocyclopentadiene (P)

7.939min (-0.010) 0.41ppm m

response 968

Ion	Exp%	Act%
236.90	100	100
234.90	62.70	0.00#
271.90	12.30	0.00
0.00	0.00	0.00

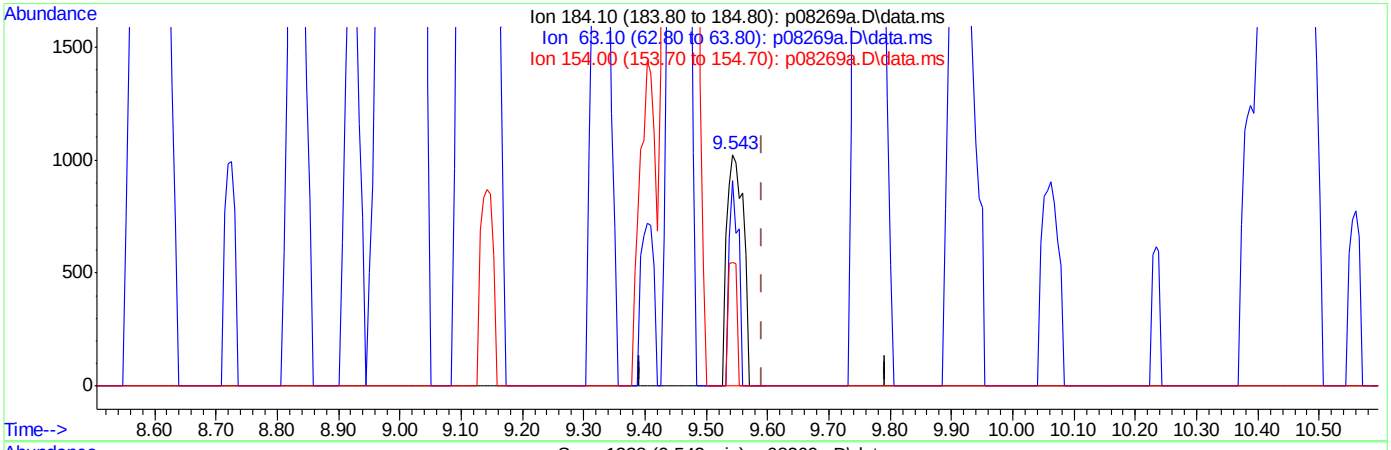
8.6.8.4

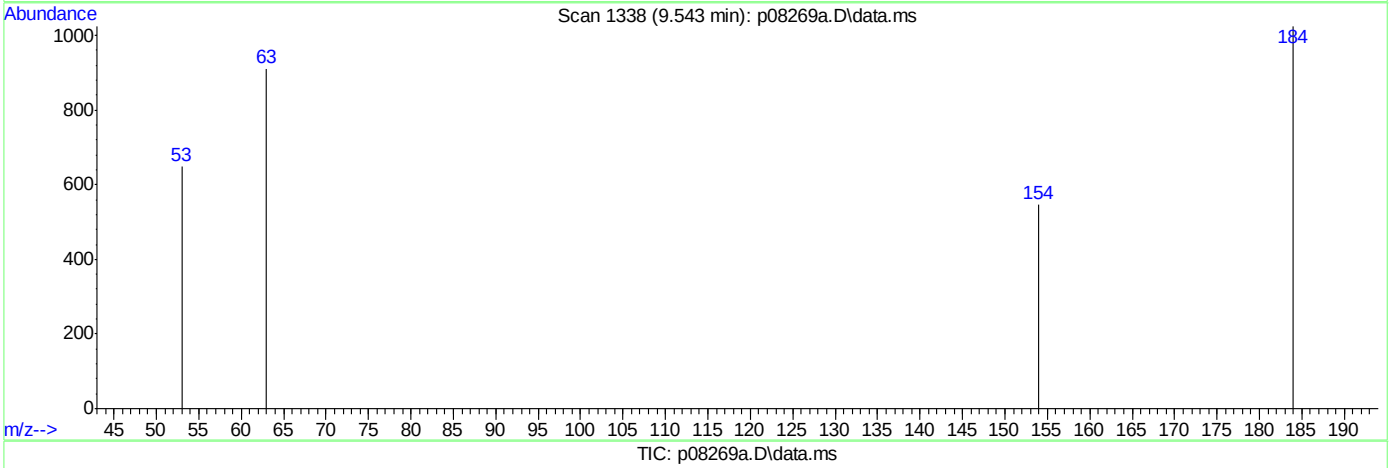
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration





TIC: p08269a.D\data.ms

(74) 2,4-Dinitrophenol (P)

9.543min (-0.049) 0.77ppm m

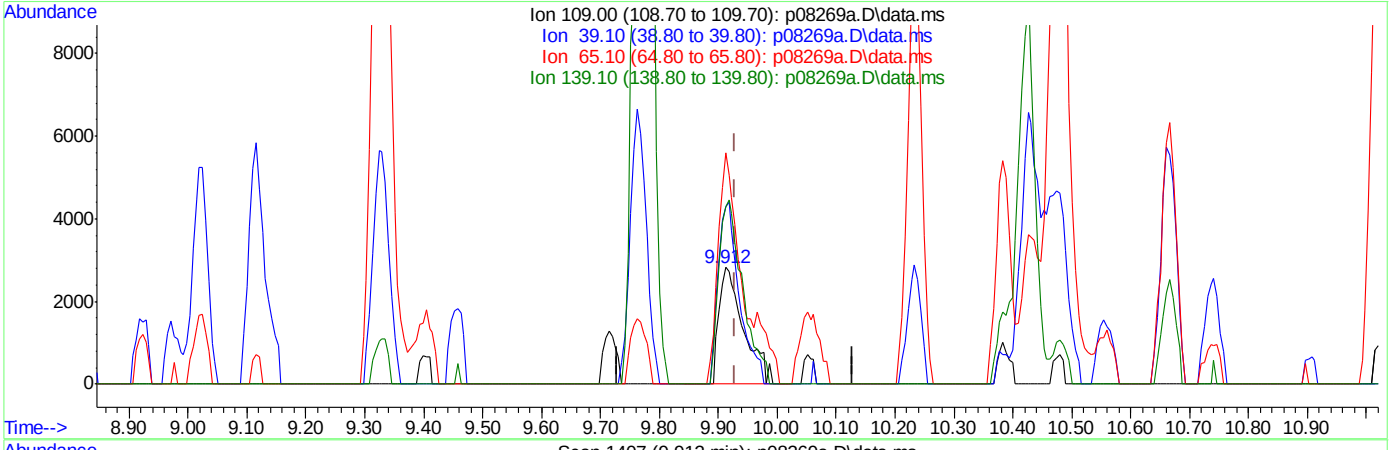
response 1869

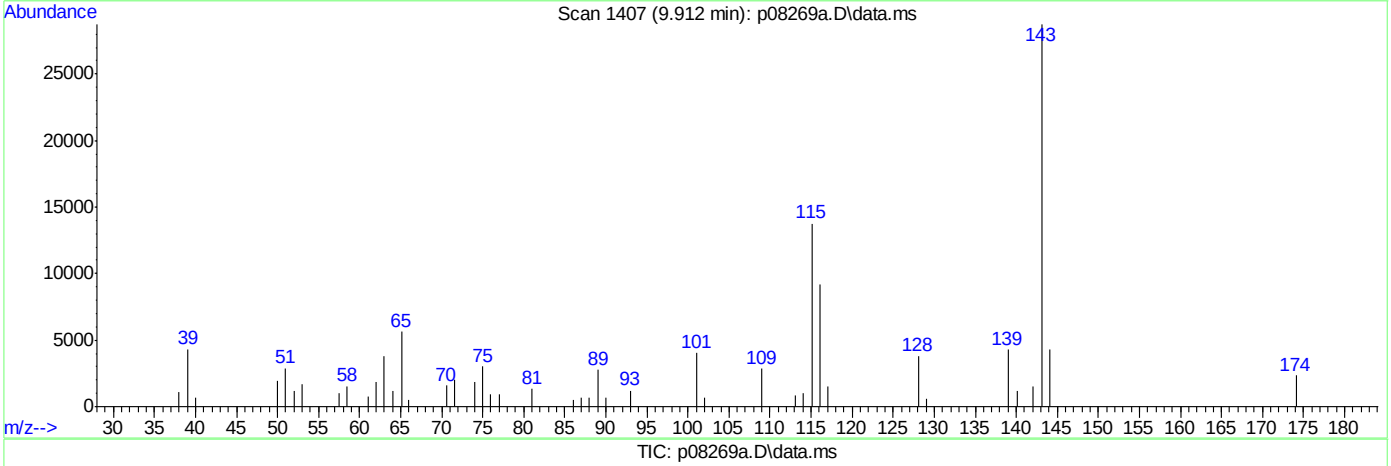
Ion	Exp%	Act%
184.10	100	100
63.10	66.90	0.00#
154.00	47.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





(78) 4-Nitrophenol (P)

9.912min (-0.016) 2.85ppm m

response 8188

Ion	Exp%	Act%
109.00	100	100
39.10	127.60	0.00#
65.10	173.50	0.00#
139.10	157.80	0.00#

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
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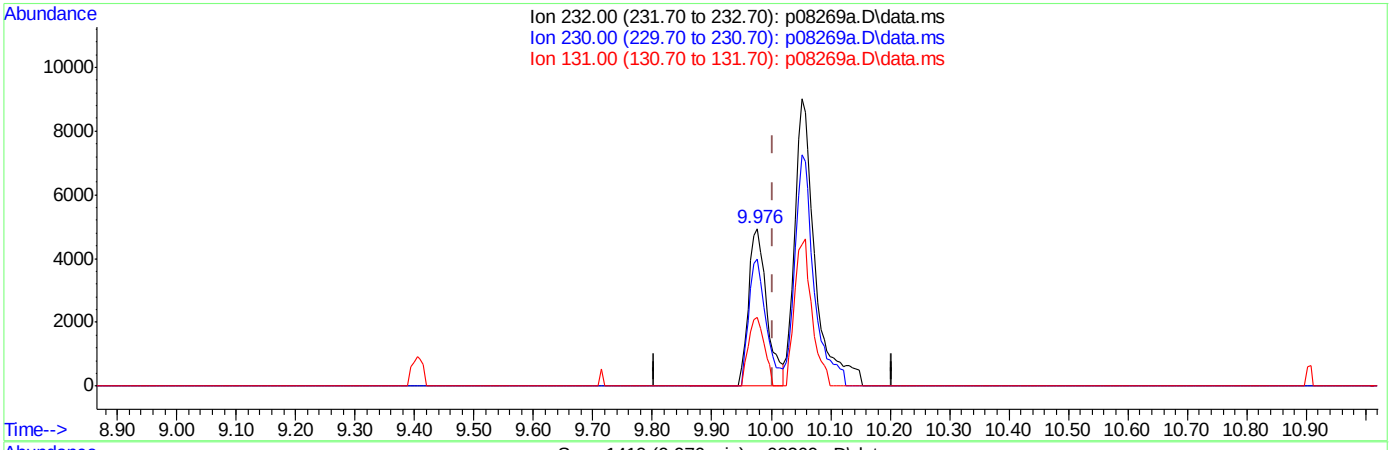

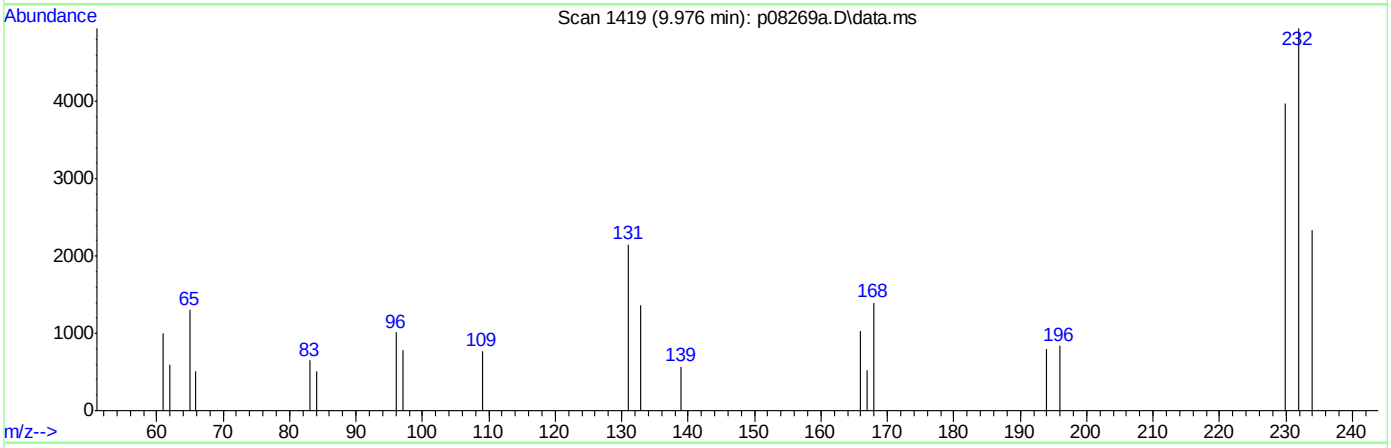

TIC: p08269a.D\data.ms

(81) 2,3,4,6-Tetrachlorophenol

9.976min (-0.027) 2.37ppm m

response 10596

Ion	Exp%	Act%
232.00	100	100
230.00	79.70	0.00#
131.00	42.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
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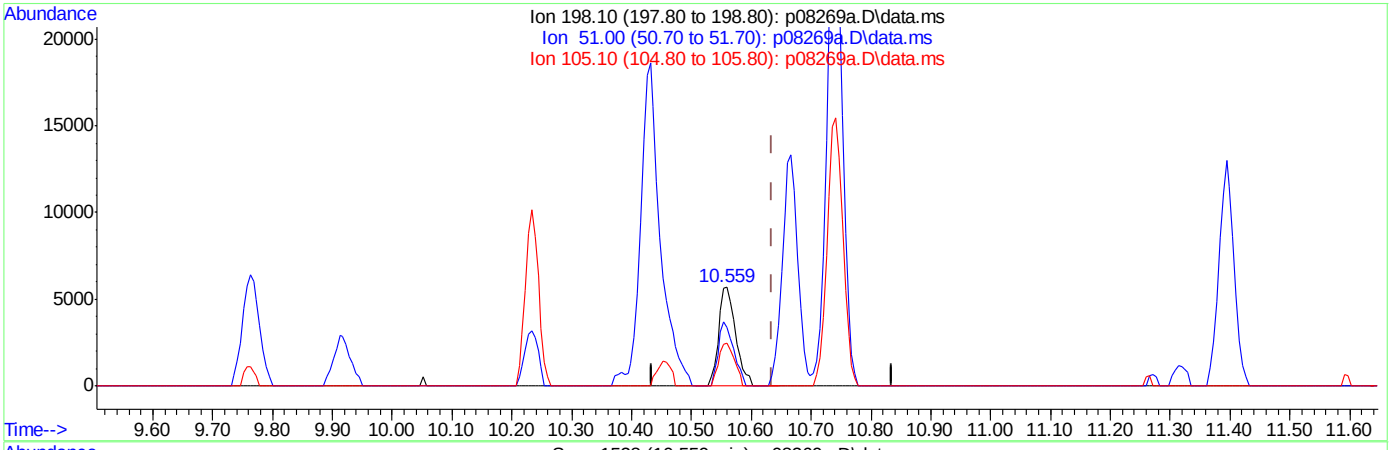

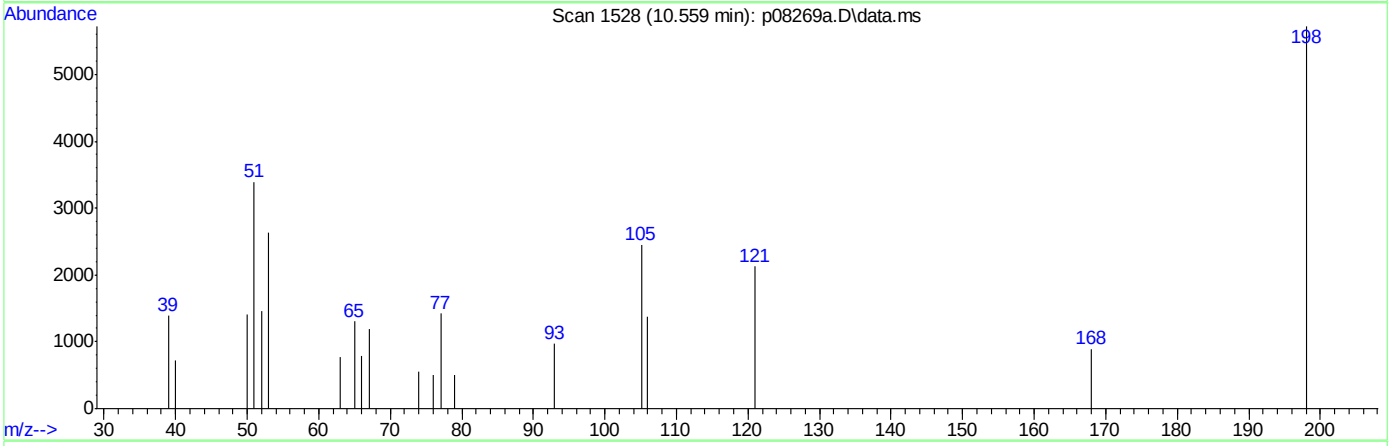

TIC: p08269a.D\data.ms

(89) 4,6-Dinitro-2-methylphenol

10.559min (-0.076) 3.04ppm m

response 11189

Ion	Exp%	Act%
198.10	100	100
51.00	48.60	0.00#
105.10	41.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
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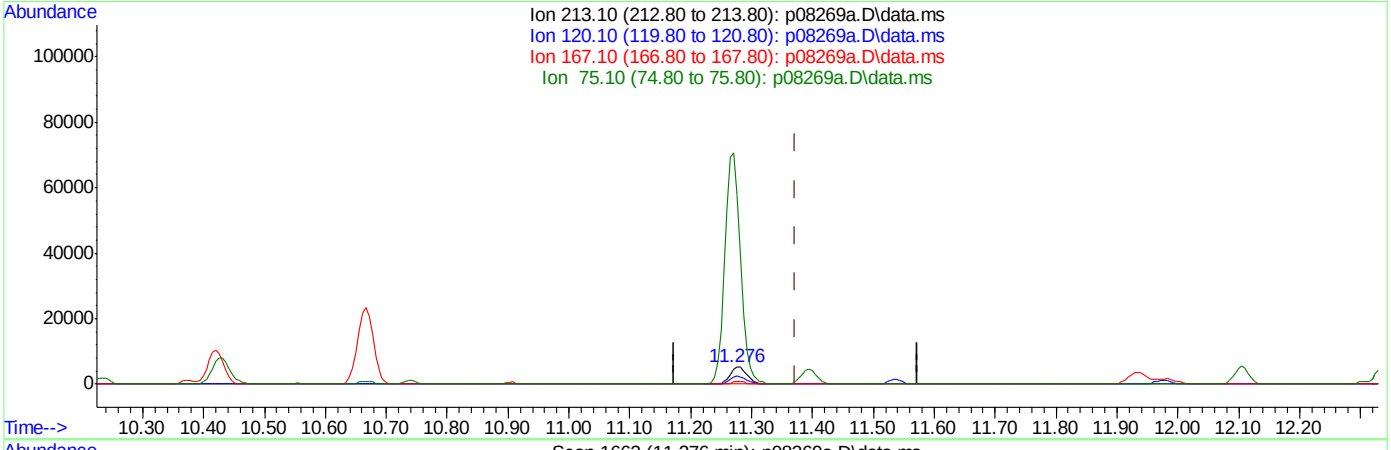
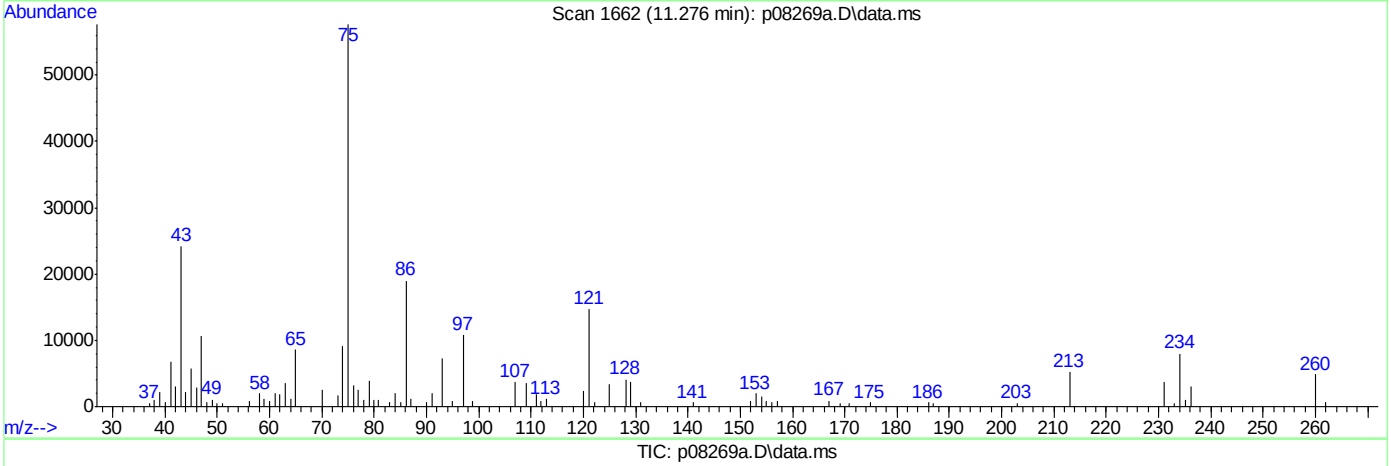




TIC: p08269a.D\data.ms

(95) sym-Trinitrobenzene

11.276min (-0.097) 4.05ppm m

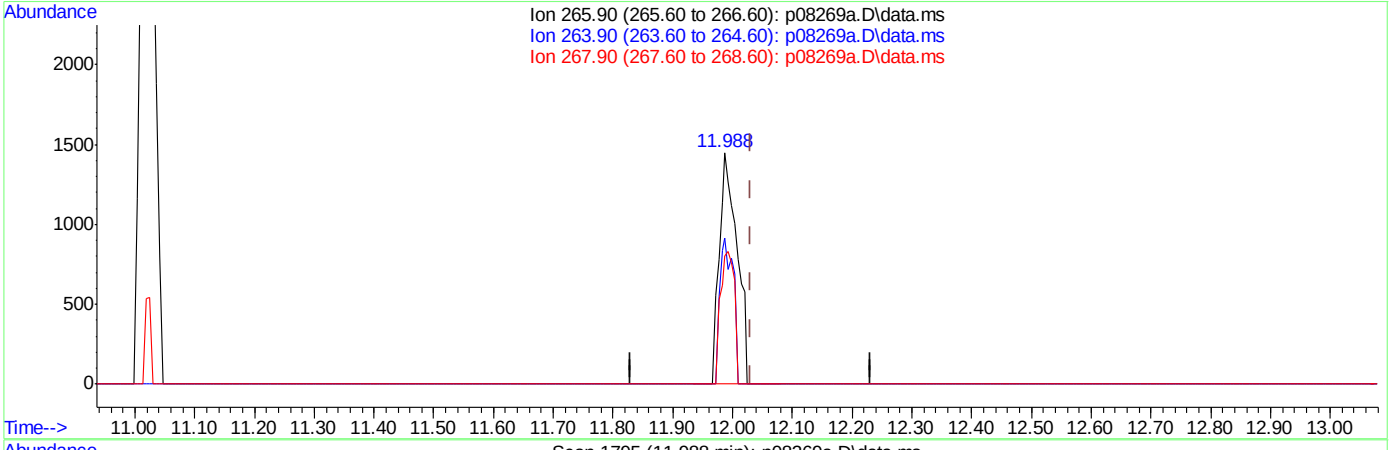
response 9756

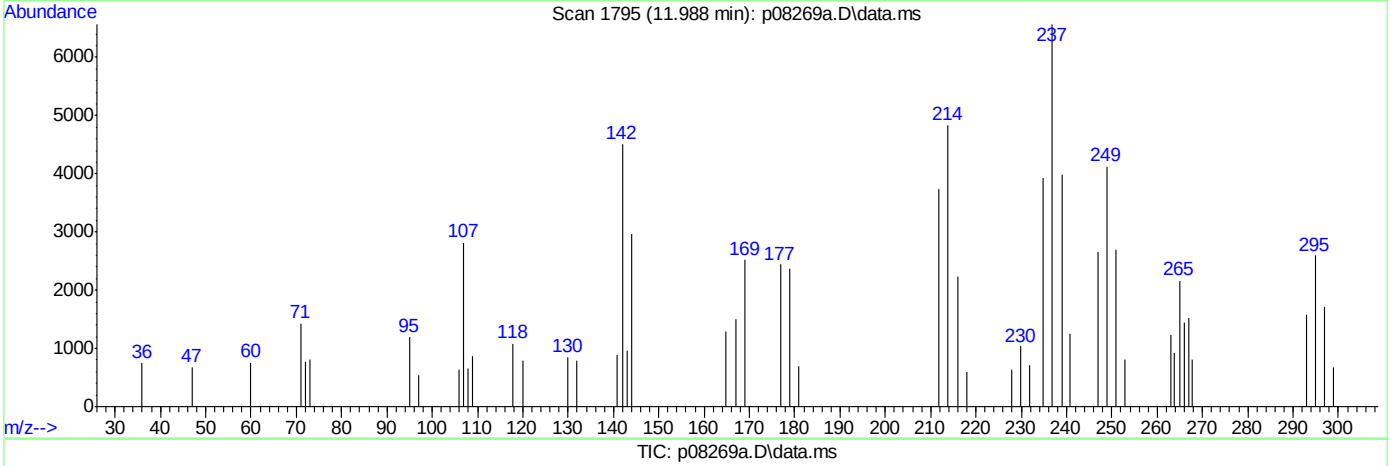
Ion	Exp%	Act%
213.10	100	100
120.10	45.80	0.00#
167.10	15.90	0.00#
75.10	143.20	0.00#

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





(104) Pentachlorophenol (C)

11.988min (-0.043) 1.49ppm m

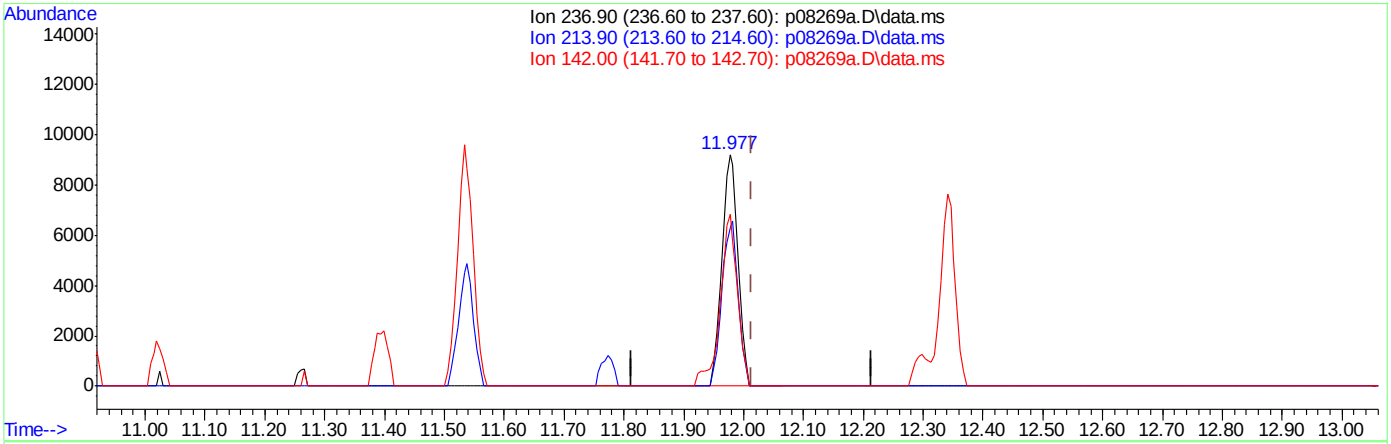
response 2985

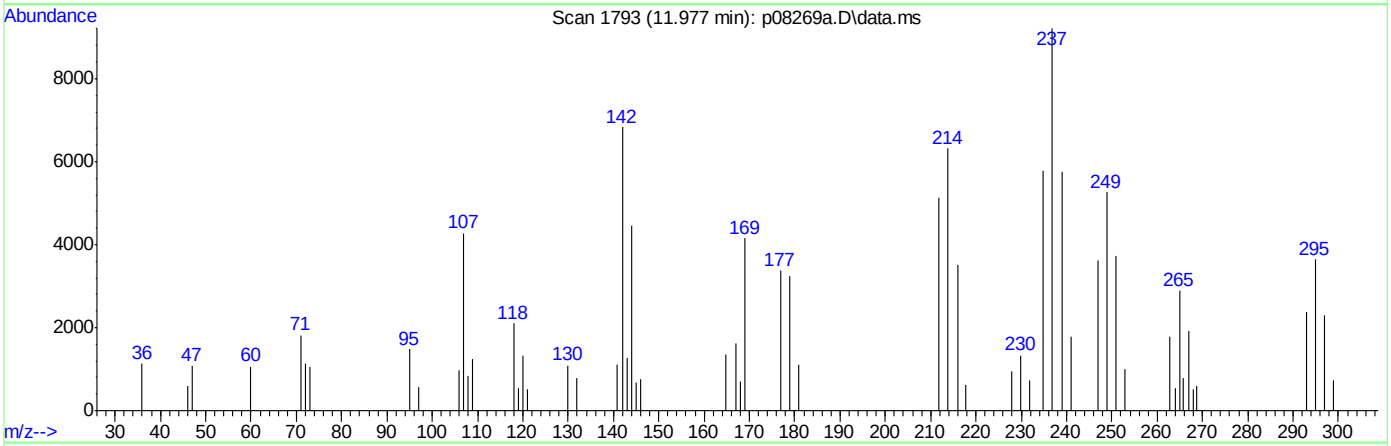
Ion	Exp%	Act%
265.90	100	100
263.90	62.90	0.00#
267.90	62.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On : 22 Jan 2010 10:02 am
Operator : garyj
Sample : ic393-5
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration





(105) Pentachloronitrobenzene

11.977min (-0.037) 5.63ppm m

response 17197

Ion	Exp%	Act%
236.90	100	100
213.90	69.80	0.00#
142.00	82.80	0.00#
0.00	0.00	0.00

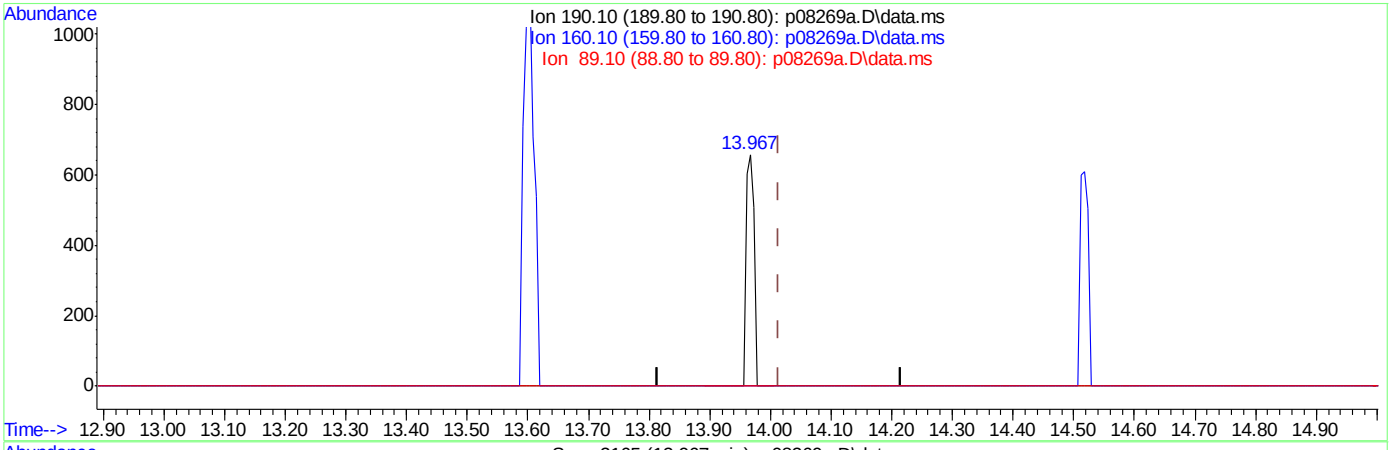
8.6.8.11

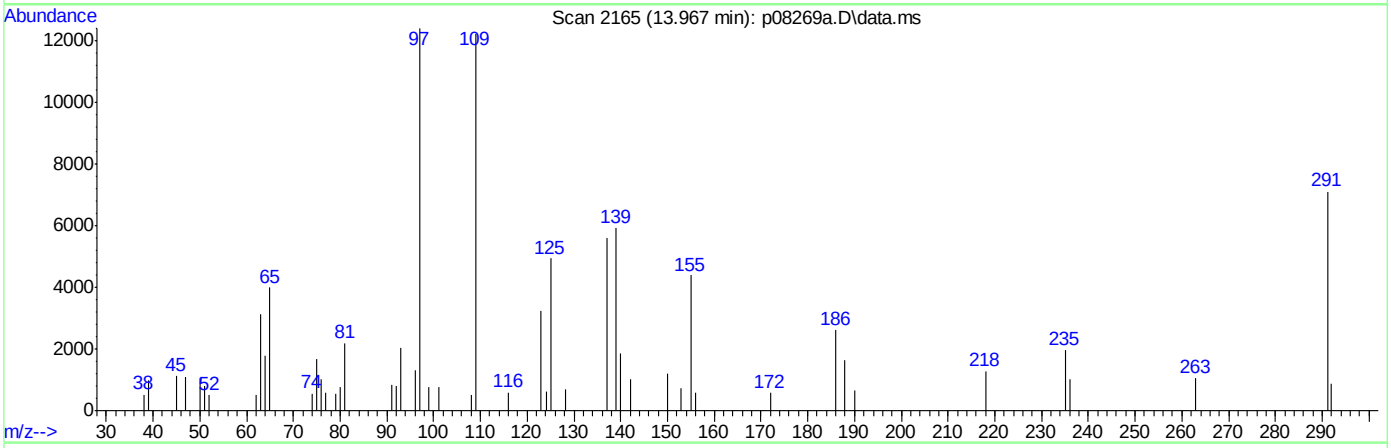
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





(113) 4-Nitroquinoline 1-Oxide

13.967min (-0.048) 0.71ppm m

response 567

Ion	Exp%	Act%
190.10	100	100
160.10	59.00	0.00#
89.10	66.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
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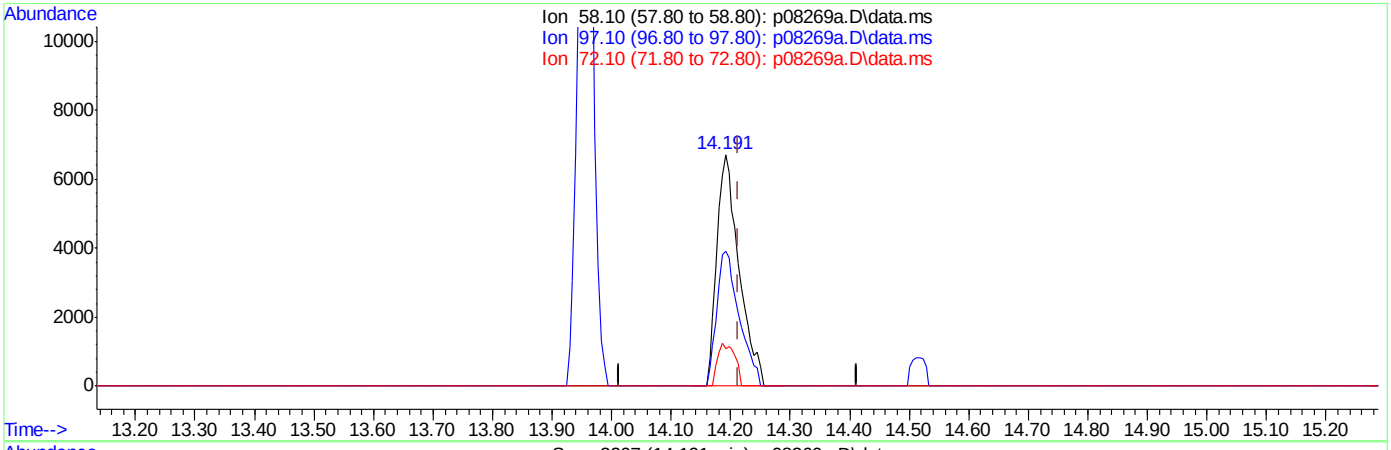
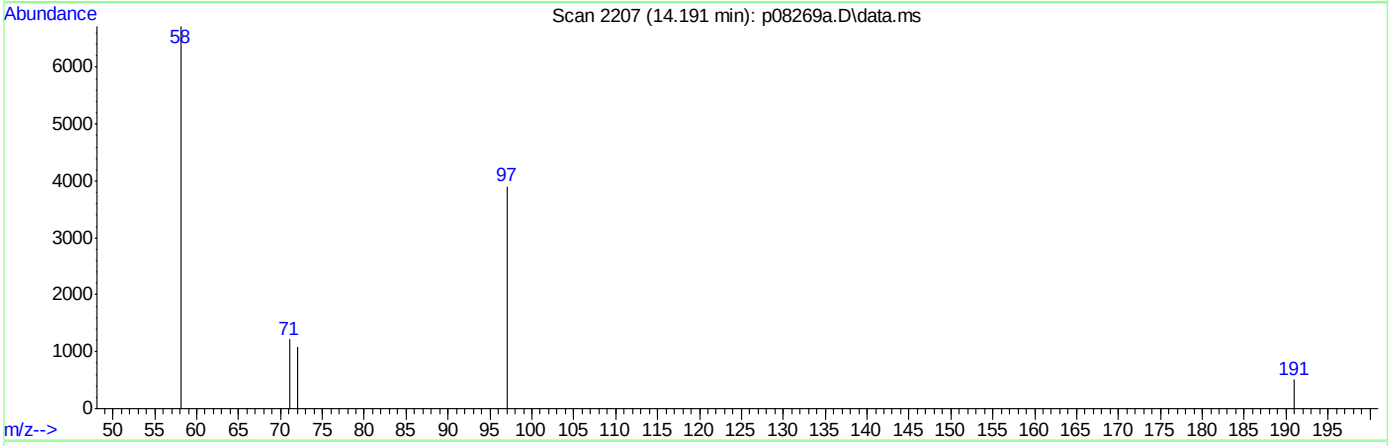




TIC: p08269a.D\data.ms

(115) Methapyrilene

14.191min (-0.022) 4.17ppm m

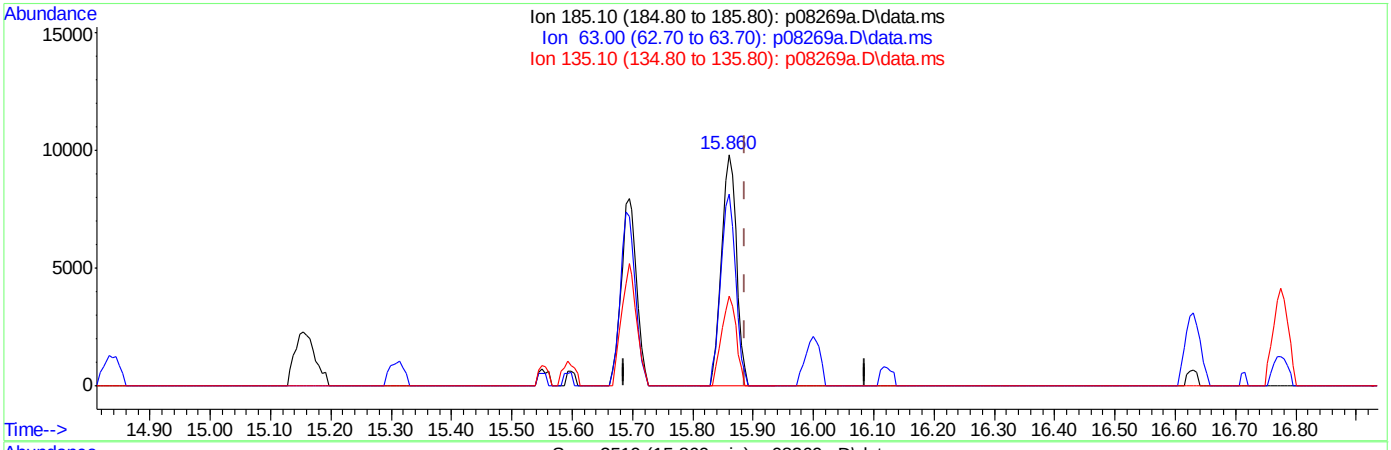
response 17394

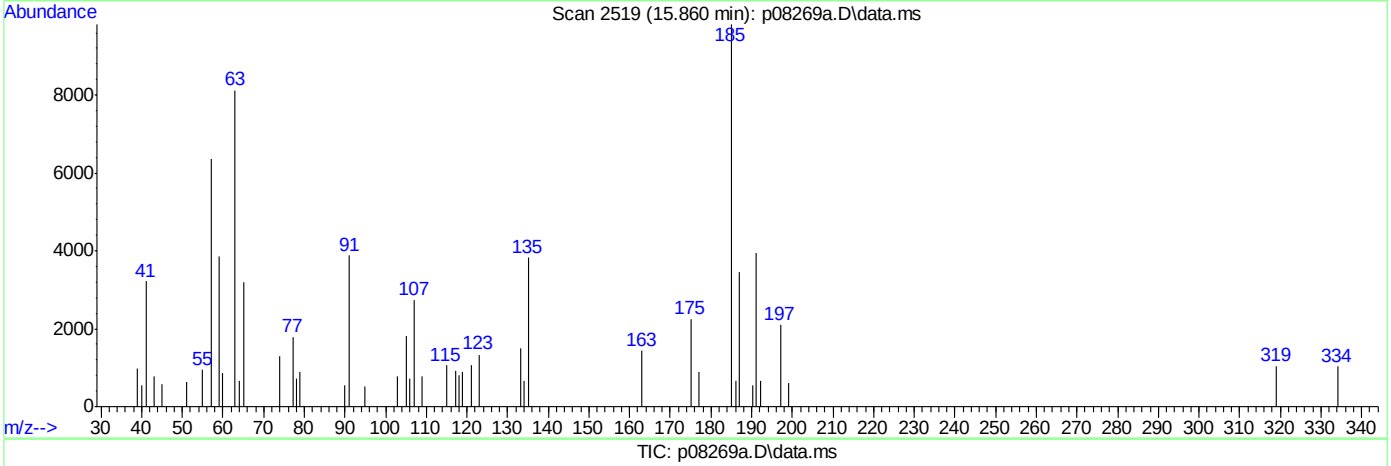
Ion	Exp%	Act%
58.10	100	100
97.10	57.70	0.00#
72.10	18.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
```





(122) Aramite

15.860min (-0.027) 5.05ppm m

response 16915

Ion	Exp%	Act%
185.10	100	100
63.00	81.50	0.00#
135.10	37.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08269a.D
Acq On    : 22 Jan 2010  10:02 am
Operator  : garyj
Sample    : ic393-5
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jan 22 14:29:24 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:24:38 2010
Response via : Initial Calibration
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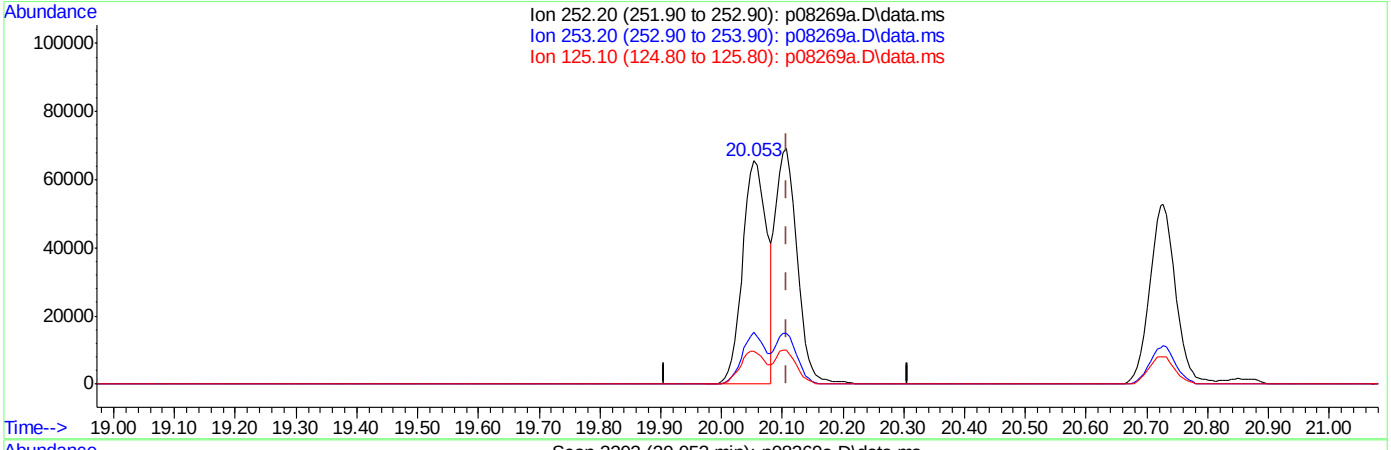
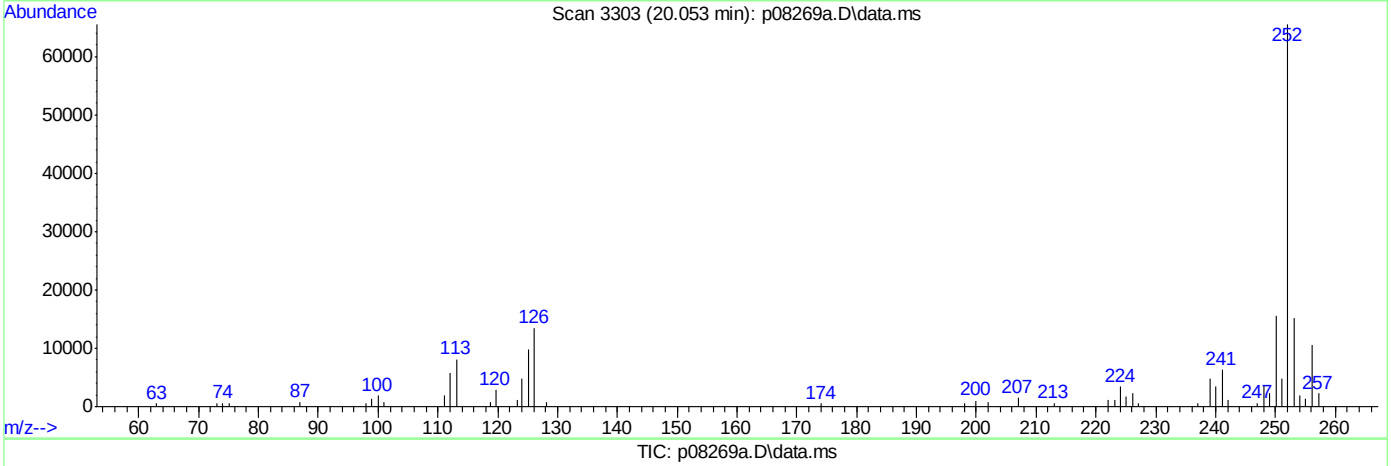




(136) Benzo[b]fluoranthene

20.053min (-0.054) 4.91ppm m

response 179927

Ion	Exp%	Act%
252.20	100	100
253.20	23.70	20.55
125.10	15.20	13.31
0.00	0.00	0.00

8.6.8.15

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.382	152	387458	40.00	ppm	0.00
31) Naphthalene-d8	6.730	136	1357284	40.00	ppm	-0.01
57) Acenaphthene-d10	9.410	164	835357	40.00	ppm	-0.02
88) Phenanthrene-d10	12.303	188	1323561	40.00	ppm	-0.03
118) Chrysene-d12	17.914	240	1153411	40.00	ppm	-0.03
134) Perylene-d12	20.856	264	824306	40.00	ppm	-0.02
System Monitoring Compounds						
13) 2-Fluorophenol	4.328	112	604336	42.25	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 42.25%			
15) Phenol-d5	5.120	99	758655	45.41	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 45.41%			
32) Nitrobenzene-d5	5.917	82	359581	21.09	ppm	-0.03
Spiked Amount 50.000	Range 29 - 115		Recovery = 42.18%			
61) 2-Fluorobiphenyl	8.244	172	677739	22.84	ppm	-0.03
Spiked Amount 50.000	Range 34 - 113		Recovery = 45.68%			
93) 2,4,6-Tribromophenol	10.913	330	130487	38.01	ppm	-0.05
Spiked Amount 100.000	Range 32 - 128		Recovery = 38.01%			
121) Terphenyl-d14	15.700	244	546302	18.34	ppm	-0.04
Spiked Amount 50.000	Range 12 - 145		Recovery = 36.68%			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.836	79	147236	9.55	ppm	97
3) 1,4-Dioxane	2.761	88	58318	9.57	ppm #	83
4) N-nitrosodimethylamine	3.082	42	71218	9.09	ppm	95
5) Pyridine	3.082	79	144425	8.96	ppm	99
6) 2-Picoline	3.761	93	165713	8.81	ppm #	74
7) N-Nitrosomethylethylamine	3.879	42	95470	8.85	ppm	95
8) Methyl methanesulfonate	4.130	80	90451	9.17	ppm	98
9) N-Nitrosodiethylamine	4.467	102	78680	9.26	ppm	98
10) Ethyl methanesulfonate	4.713	79	123382	9.01	ppm	98
11) Benzaldehyde	4.997	106	31013	6.72	ppm	99
12) Aniline	5.093	93	225166	11.30	ppm	95
14) bis(2-Chloroethyl)ether	5.136	93	172713	10.15	ppm	95
16) Phenol	5.136	94	197582	10.49	ppm #	96
17) 2-Chlorophenol	5.238	128	147604	10.01	ppm	98
18) 1,3-Dichlorobenzene	5.329	146	183765	10.17	ppm	99
19) 1,4-Dichlorobenzene	5.398	146	172082	10.19	ppm	99
20) 1,2-Dichlorobenzene	5.543	146	172495	10.92	ppm	99
21) Benzyl alcohol	5.516	108	100319	9.92	ppm	95
22) bis(2-chloroisopropyl)...	5.628	45	331147	10.54	ppm	99
23) 2-Methylphenol	5.671	108	148226	9.49	ppm	97
24) N-Nitrosopyrrolidine	5.740	100	83057	11.43	ppm #	5
25) N-Nitrosomorpholine	5.767	56	120738	11.20	ppm	97
26) o-Toluidine	5.799	106	240269	11.03	ppm	96
27) Acetophenone	5.762	105	202536	10.14	ppm #	98
28) Hexachloroethane	5.874	117	69216	10.34	ppm	99
29) N-Nitroso-di-n-propyla...	5.762	70	121278	10.97	ppm	92
30) 3&4-Methylphenol	5.821	108	163433	11.29	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Nitrobenzene	5.938	77	173165	10.69	ppm		98
34) N-Nitrosopiperidine	6.088	42	128528	9.78	ppm		99
35) A,A-Dimethylphenethyla...	6.971	58	503696m	9.05	ppm		
36) Isophorone	6.184	82	336659	10.09	ppm		100
37) 2-Nitrophenol	6.275	139	73956	9.61	ppm	#	80
38) 2,4-Dimethylphenol	6.345	107	156488	10.61	ppm		98
39) bis(2-Chloroethoxy)met...	6.409	93	198654	10.54	ppm		99
40) O,O,O-Triethyl phospho...	6.377	121	65989	11.49	ppm		91
41) Benzoic Acid	6.516	105	15975m	3.59	ppm		
42) 2,4-Dichlorophenol	6.607	162	116676	10.11	ppm		100
43) 1,2,4-Trichlorobenzene	6.655	180	136832	10.50	ppm		100
44) Naphthalene	6.751	128	416434	10.93	ppm		100
45) 4-Chloroaniline	6.810	127	164943	10.51	ppm		98
46) 2,6-Dichlorophenol	6.837	162	114949	10.90	ppm		99
47) Hexachloropropene	6.864	213	61747	9.84	ppm		99
48) Hexachlorobutadiene	6.906	225	84602	10.55	ppm		100
49) p-Phenylenediamine	7.292	108	7365m	1.78	ppm		
50) Caprolactam	7.249	113	47181m	8.74	ppm		
51) N-Nitrosodi-n-butylamine	7.238	84	140815	11.61	ppm		85
52) 4-Chloro-3-methylphenol	7.521	107	126192	10.44	ppm		100
53) Isosafrole	7.543	162	113689	10.97	ppm		96
54) 2-Methylnaphthalene	7.682	142	276713	10.69	ppm		98
55) 1-Methylnaphthalene	7.832	142	271401	10.72	ppm		98
56) 1,2,4,5-Tetrachloroben...	7.944	216	125134	10.52	ppm		99
58) Hexachlorocyclopentadiene	7.939	237	10796m	4.22	ppm		
59) 2,4,6-Trichlorophenol	8.142	196	75857	9.27	ppm		99
60) 2,4,5-Trichlorophenol	8.270	196	74179	10.01	ppm		98
62) Safrole	8.345	162	114708	10.40	ppm		96
63) 1,1'-Biphenyl	8.409	154	334045	11.06	ppm		99
64) 2-Chloronaphthalene	8.441	162	318371	10.34	ppm		93
65) 1-Chloronaphthalene	8.479	162	230649	11.58	ppm		100
66) 2-Nitroaniline	8.613	65	87956	9.51	ppm		97
67) 1,4-Naphthoquinone	8.725	158	105384	11.89	ppm		98
68) Acenaphthylene	9.147	152	421687	10.66	ppm		99
69) Dimethylphthalate	8.928	163	321237	9.67	ppm		100
70) m-Dinitrobenzene	8.982	168	47308	9.47	ppm	#	66
71) 2,6-Dinitrotoluene	9.030	165	75023	10.11	ppm		85
72) Acenaphthene	9.458	153	268461	10.53	ppm		100
73) 3-Nitroaniline	9.335	138	62144	8.90	ppm	#	97
74) 2,4-Dinitrophenol	9.543	184	11373m	4.29	ppm		
75) Dibenzofuran	9.773	168	336820	10.38	ppm		98
76) Pentachlorobenzene	9.720	250	104400	9.84	ppm		100
77) 2,4-Dinitrotoluene	9.768	165	84861	9.38	ppm		99
78) 4-Nitrophenol	9.912	109	22767m	7.30	ppm		
79) 1-Naphthylamine	9.912	143	98297	5.90	ppm	#	93
80) 2-Naphthylamine	10.067	143	45500	3.41	ppm	#	85
81) 2,3,4,6-Tetrachlorophenol	9.977	232	30363m	6.28	ppm		
82) Fluorene	10.420	166	282949	11.02	ppm		99
83) 4-Chlorophenyl-phenyle...	10.431	204	144673	11.17	ppm		99
84) Diethylphthalate	10.239	149	319502	10.02	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	5-Nitro-o-toluidine	10.463	152	76537	9.16	ppm	#	49
86)	Thionazin	10.388	97	73601	11.34	ppm		98
87)	4-Nitroaniline	10.485	138	59778	8.92	ppm		96
89)	4,6-Dinitro-2-methylph...	10.565	198	33001	7.82	ppm	#	31
90)	n-Nitrosodiphenylamine	10.672	169	268447	10.66	ppm		100
91)	1,2-Diphenylhydrazine	10.741	77	324925	10.02	ppm		99
92)	Diphenylamine	10.672	169	268447	10.66	ppm		100
94)	Tetraethyl dithiopyrop...	11.025	97	53512	10.85	ppm		99
95)	sym-Trinitrobenzene	11.287	213	24366	8.84	ppm	#	1
96)	Diallate	11.266	43	176644	11.42	ppm		96
97)	Phorate	11.271	75	255586	11.71	ppm	#	93
98)	4-Bromophenyl-phenylether	11.399	248	83580	10.64	ppm		100
99)	Phenacetin	11.335	108	122879	9.74	ppm		96
100)	Hexachlorobenzene	11.538	284	79314	10.20	ppm		98
101)	Dimethoate	11.602	87	121646	14.10	ppm		99
102)	Atrazine	11.784	200	80620	15.47	ppm		98
103)	4-aminobiphenyl	11.934	169	199226	10.04	ppm	#	92
104)	Pentachlorophenol	11.993	266	13035m	5.70	ppm		
105)	Pentachloronitrobenzene	11.982	237	35307	10.11	ppm		94
106)	Pronamide	12.111	173	143977	10.48	ppm		100
107)	Phenanthrene	12.346	178	384206	10.91	ppm		99
108)	Anthracene	12.448	178	394077	10.39	ppm		99
109)	Disulfoton	12.346	88	211462	11.78	ppm		95
110)	Carbazole	12.806	167	347831	10.17	ppm		99
111)	Methyl parathion	13.116	109	95611	12.77	ppm		98
112)	Di-n-butylphthalate	13.603	149	559334	11.01	ppm		100
113)	4-Nitroquinoline 1-Oxide	13.972	190	4709m	5.17	ppm		
114)	Parathion	13.956	97	66499	10.72	ppm		99
115)	Methapyrilene	14.191	58	48451	10.16	ppm	#	90
116)	Isodrin	14.518	193	53253	10.90	ppm		99
117)	Fluoranthene	14.838	202	411282	10.53	ppm		99
119)	Benzidine	15.154	184	61774	7.23	ppm	#	68
120)	Pyrene	15.314	202	436728	8.98	ppm		99
122)	Aramite	15.860	185	32729	9.72	ppm	#	80
123)	p-(Dimethylamine)azobe...	16.004	120	113431	8.71	ppm		95
124)	Chlorobenzilate	16.122	139	153213	9.30	ppm		97
126)	3,3'-Dimethylbenzidine	16.716	212	120076	8.88	ppm	#	65
127)	Famphur	16.630	218	48444	19.48	ppm	#	100
128)	Butylbenzylphthalate	16.775	149	225276	9.49	ppm		100
129)	2-Acetylaminofluorene	17.261	181	112118	9.35	ppm		98
130)	3,3'-Dichlorobenzidine	17.860	252	93278	9.88	ppm	#	92
131)	Benzo[a]anthracene	17.887	228	332142	9.37	ppm		99
132)	Chrysene	17.962	228	324902	9.72	ppm		98
133)	bis(2-Ethylhexyl)phtha...	18.042	149	314996	9.98	ppm		99
135)	Di-n-octylphthalate	19.342	149	471670	9.06	ppm		100
136)	Benzo[b]fluoranthene	20.059	252	281092m	9.21	ppm		
137)	Benzo[k]fluoranthene	20.107	252	262051	9.92	ppm		99
138)	7,12-Dimethylbenz(a)an...	20.037	256	97360	7.63	ppm		99
140)	Benzo[a]pyrene	20.727	252	237739	9.32	ppm		99
141)	3-Methylcholanthrene	21.508	268	104667	9.47	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.471	276	194977	9.61 ppm	99
143) Dibenz[a,h]anthracene	23.509	278	162886	9.56 ppm	98
144) Benzo[g,h,i]perylene	24.236	276	153692	9.40 ppm	99

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

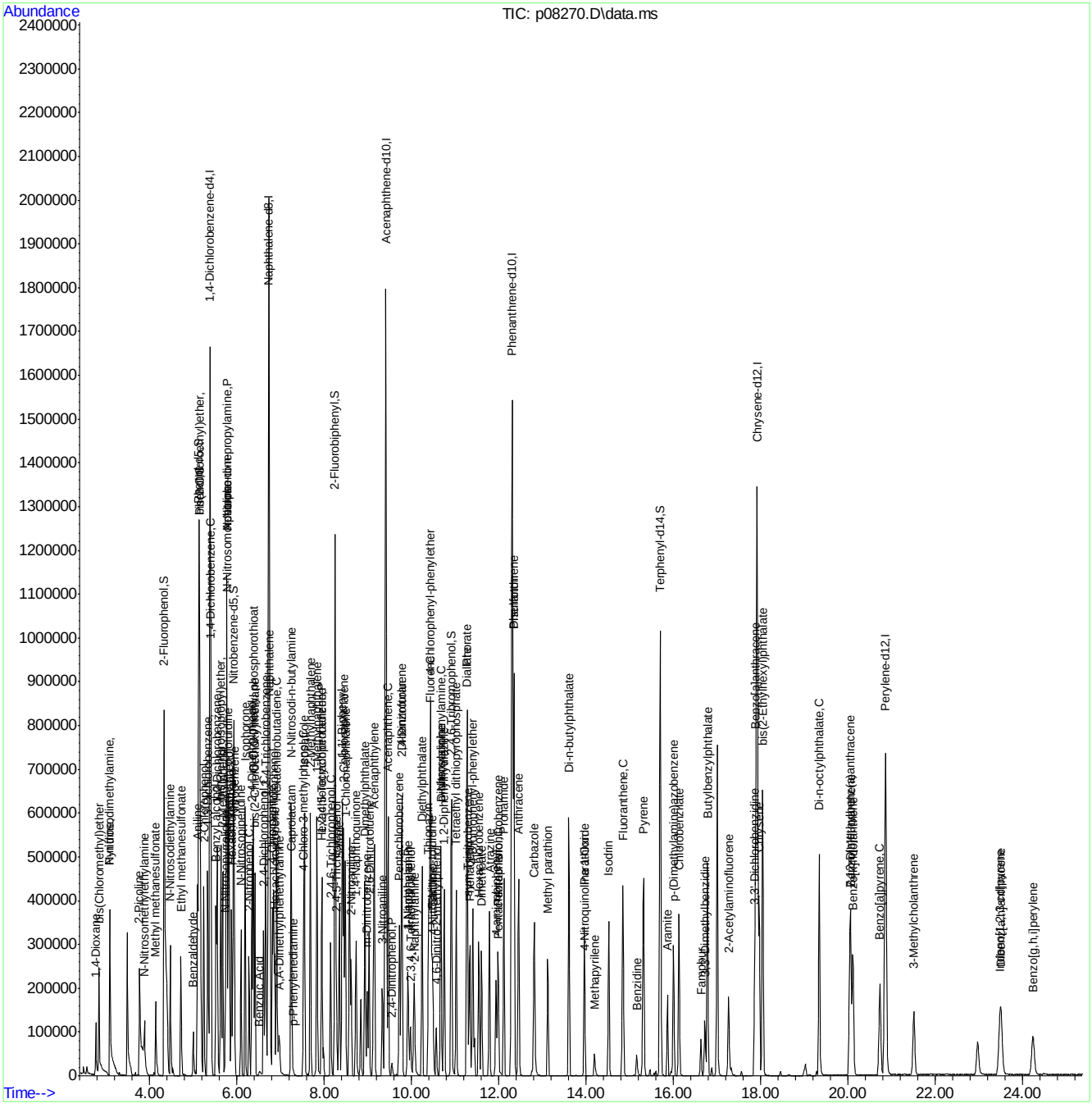
8.6.9

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration



ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
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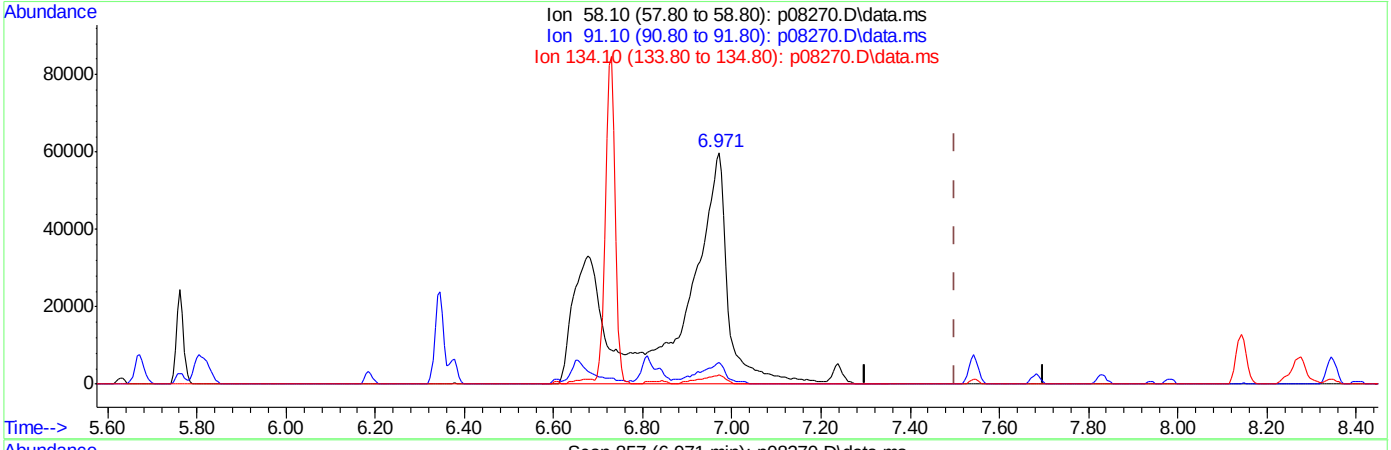

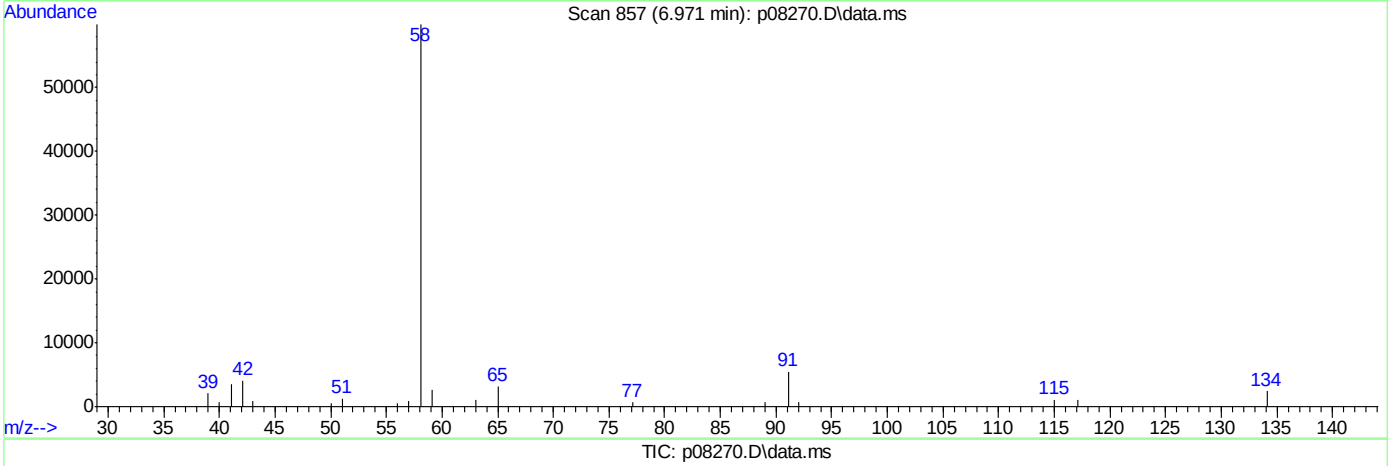

TIC: p08270.D\data.ms

(35) A,A-Dimethylphenethylamine

6.971min (-0.529) 9.05ppm m

response 503696

Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

8.6.9.1

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
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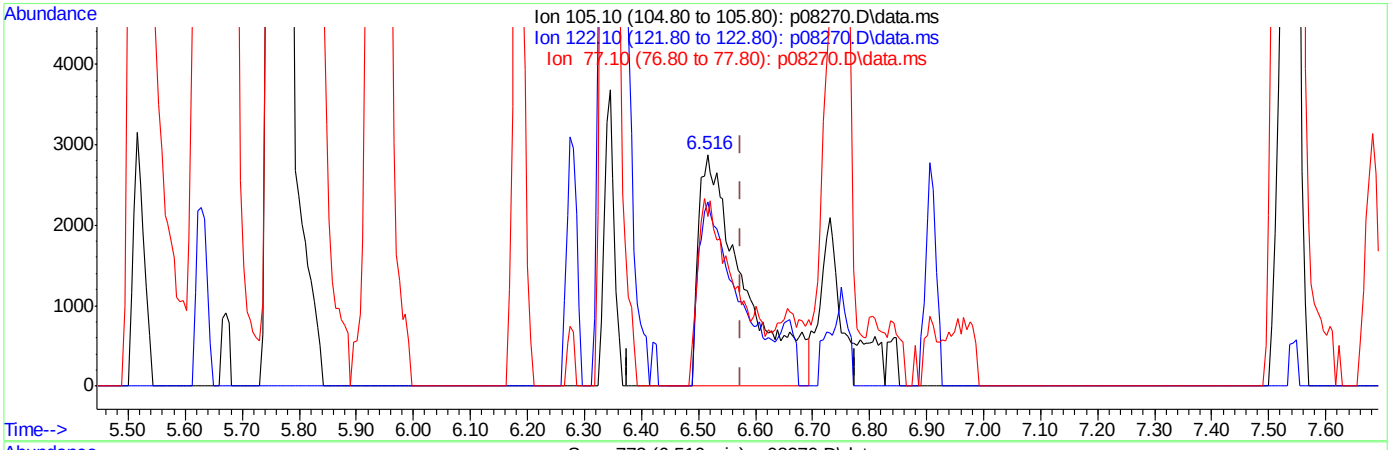
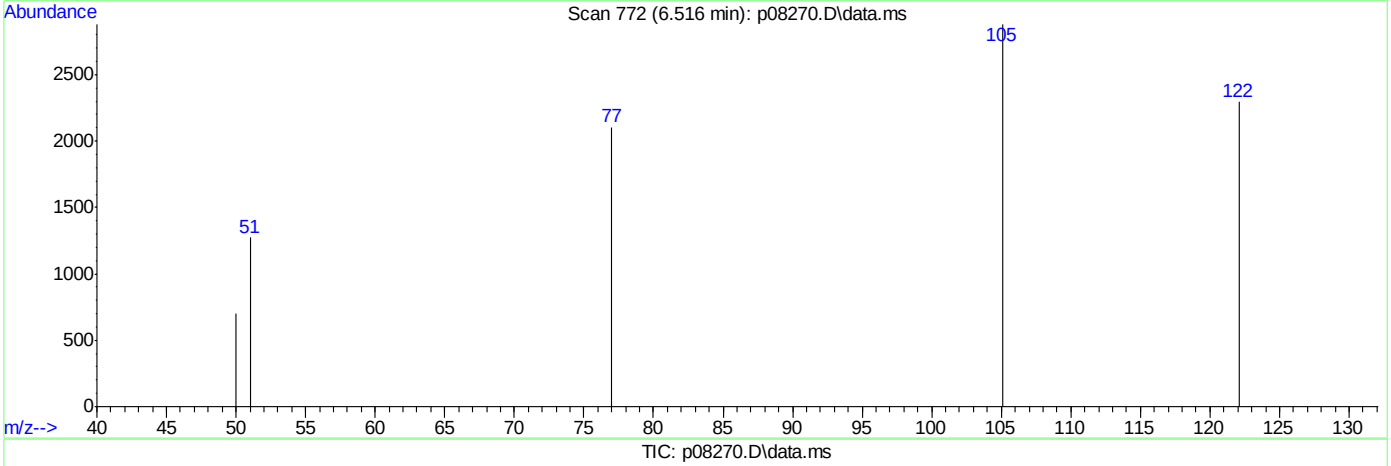




TIC: p08270.D\data.ms

(41) Benzoic Acid

6.516min (-0.059) 3.59ppm m

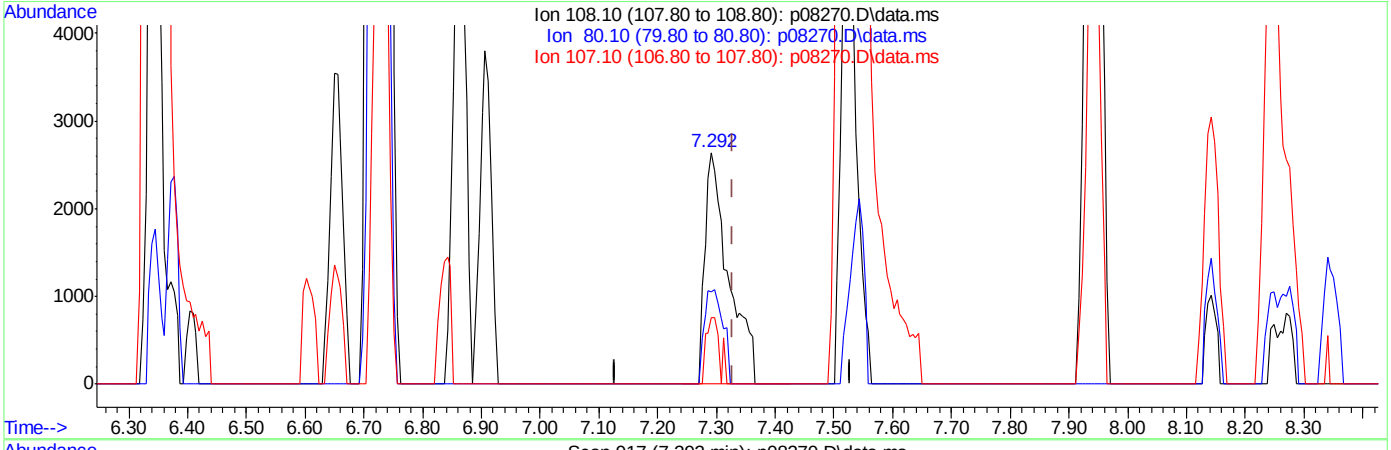
response 15975

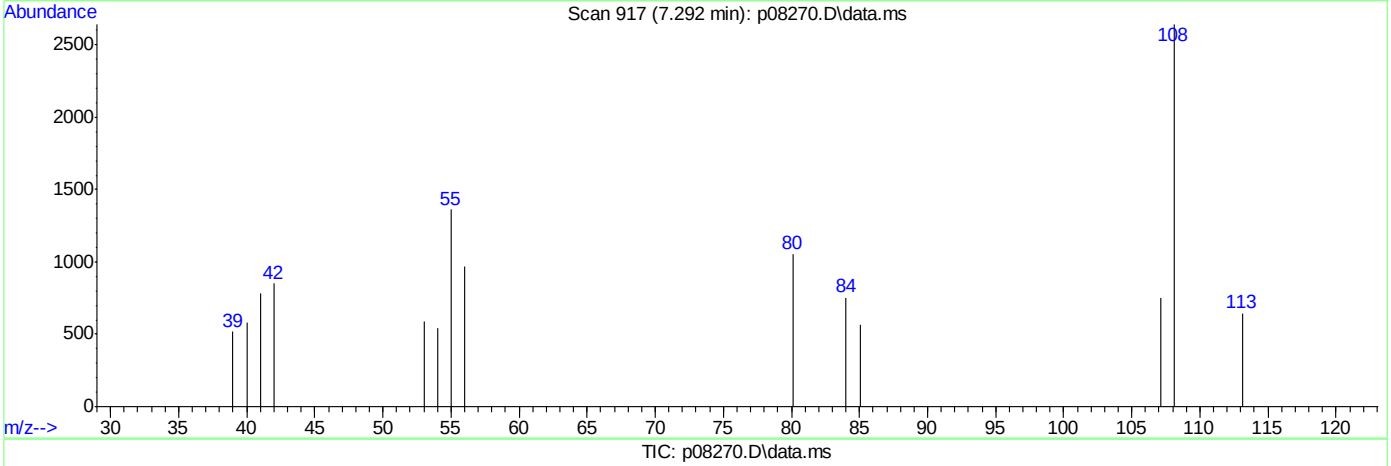
Ion	Exp%	Act%
105.10	100	100
122.10	80.10	0.00#
77.10	82.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration





TIC: p08270.D\data.ms

(49) p-Phenylenediamine

7.292min (-0.037) 1.78ppm m

response 7365

Ion	Exp%	Act%
108.10	100	100
80.10	43.40	0.00#
107.10	27.20	0.00#
0.00	0.00	0.00

8.6.9.3

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
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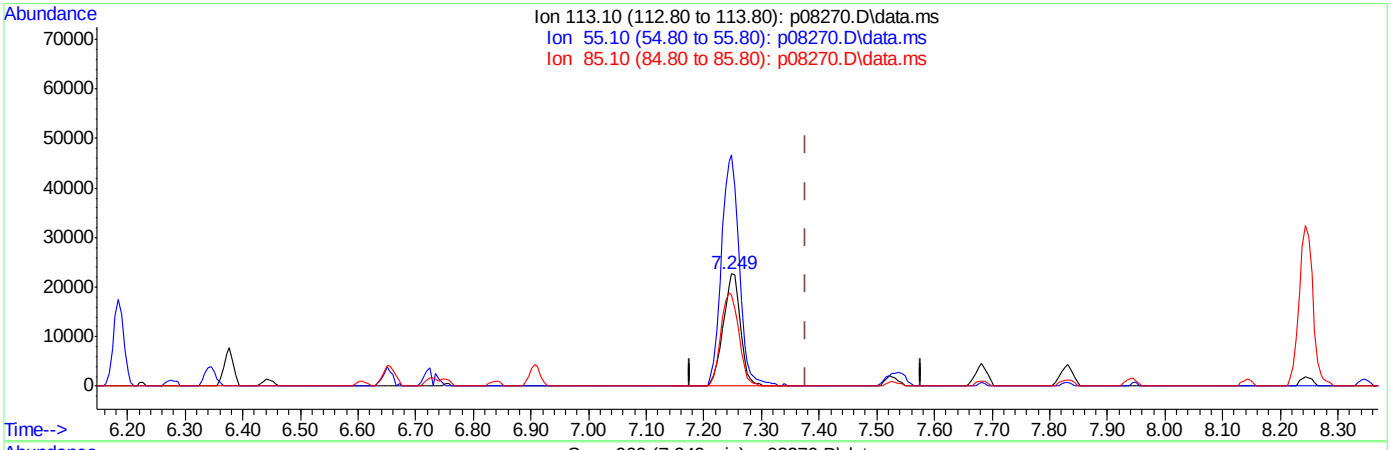
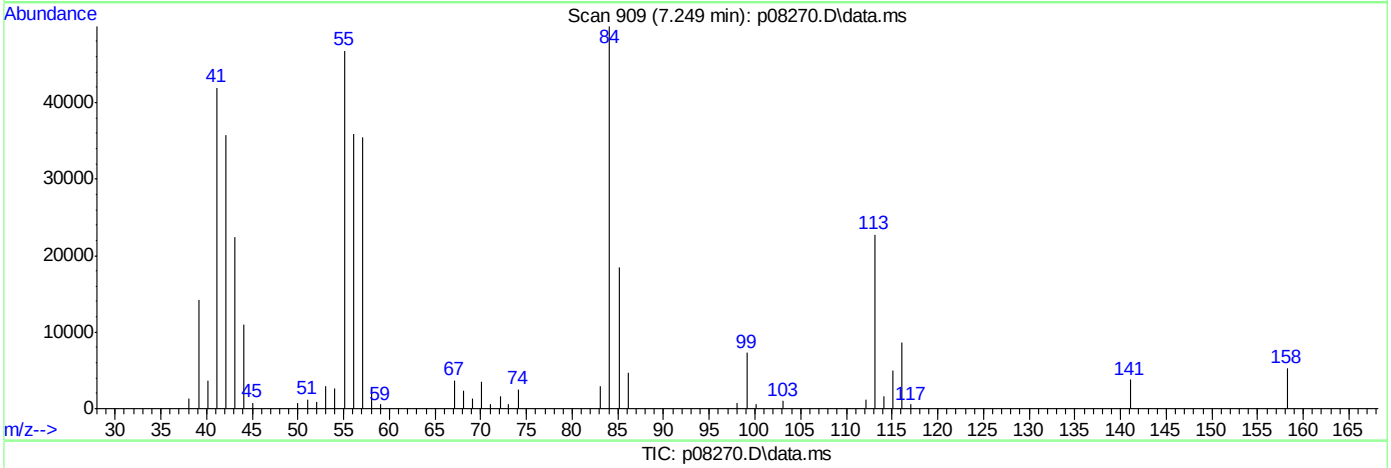




TIC: p08270.D\data.ms

(50) Caprolactam

7.249min (-0.128) 8.74ppm m

response 47181

Ion	Exp%	Act%
113.10	100	100
55.10	184.60	0.00#
85.10	69.10	0.00#
0.00	0.00	0.00

8.6.9.4

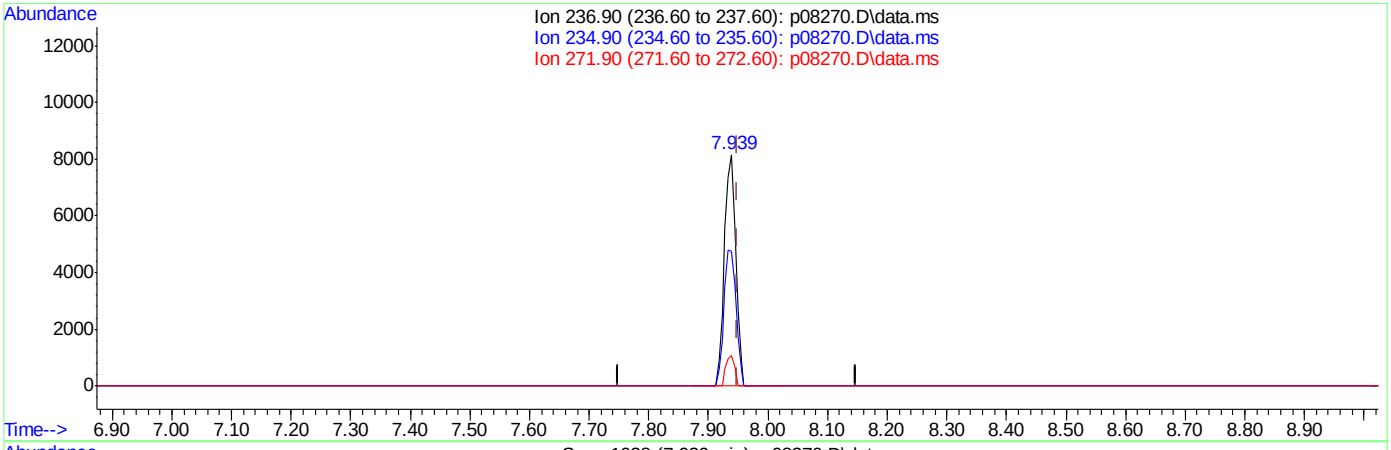
8

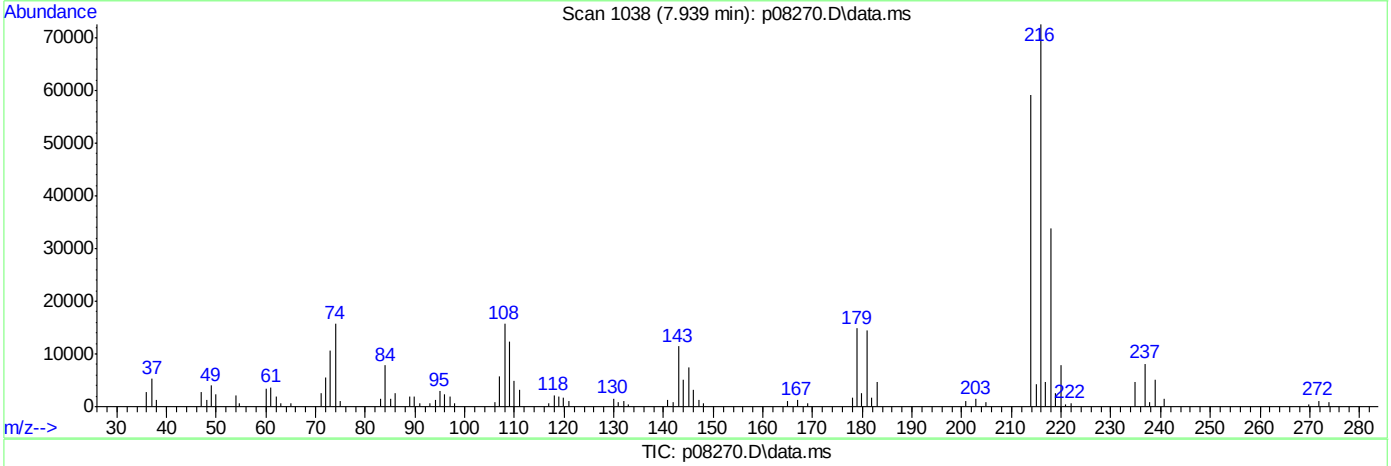
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
```





(58) Hexachlorocyclopentadiene (P)

7.939min (-0.010) 4.22ppm m

response 10796

Ion	Exp%	Act%
236.90	100	100
234.90	62.70	0.00#
271.90	12.30	0.00
0.00	0.00	0.00

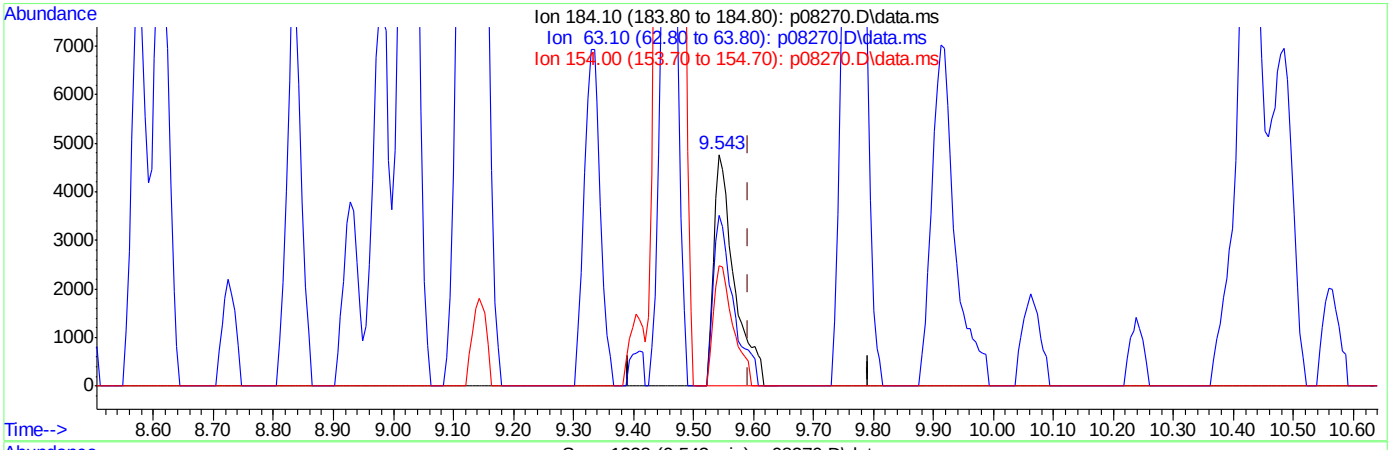
8.6.9.5

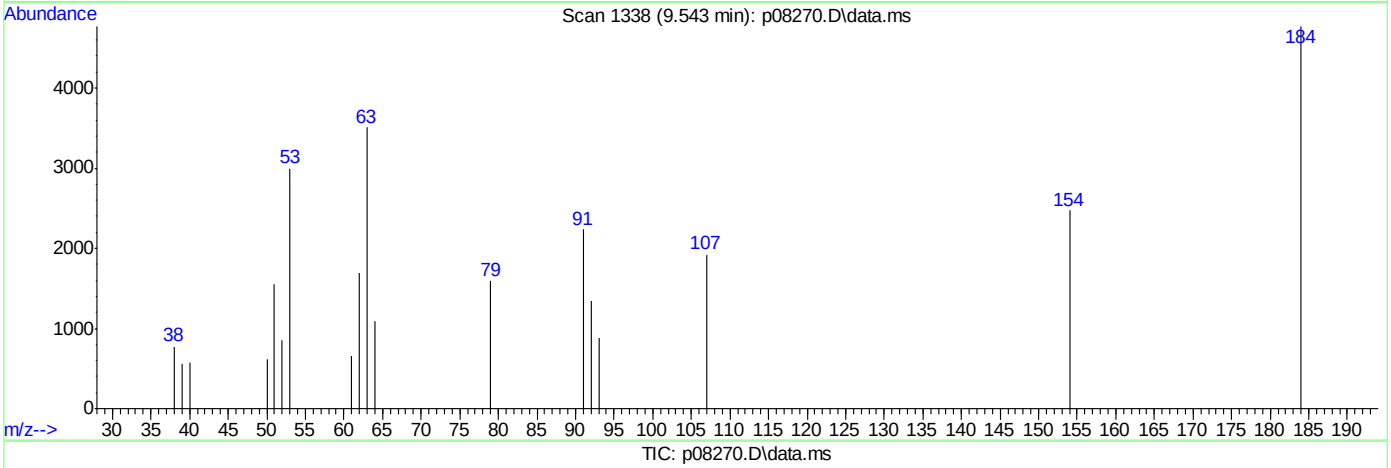
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On : 22 Jan 2010 10:35 am
Operator : garyj
Sample : ic393-10
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration





TIC: p08270.D\data.ms

(74) 2,4-Dinitrophenol (P)

9.543min (-0.049) 4.29ppm m

response 11373

Ion	Exp%	Act%
184.10	100	100
63.10	66.90	0.00#
154.00	47.50	0.00#
0.00	0.00	0.00

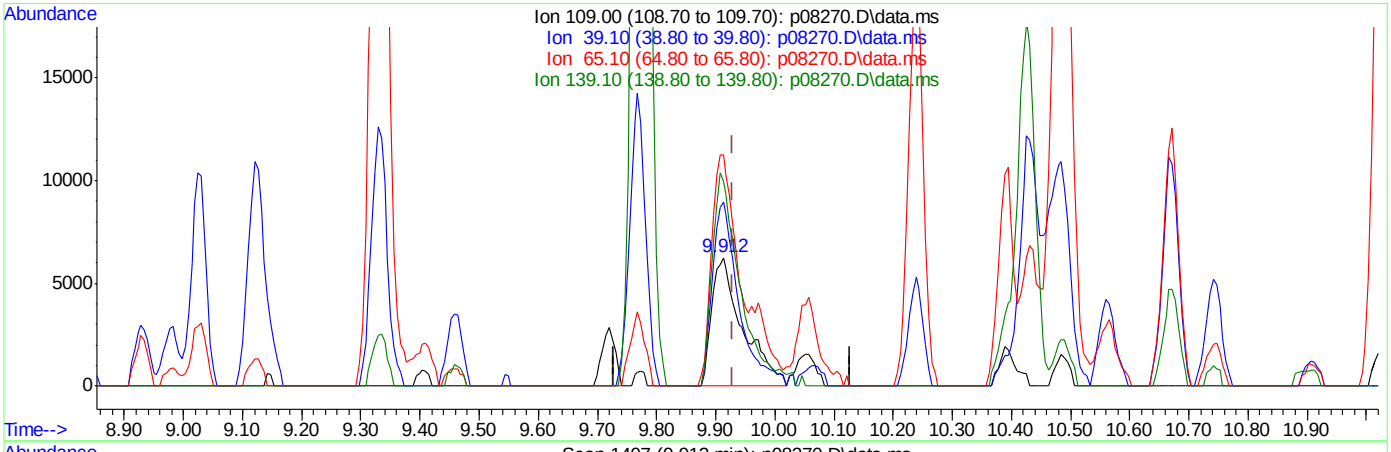
8.6.9.6

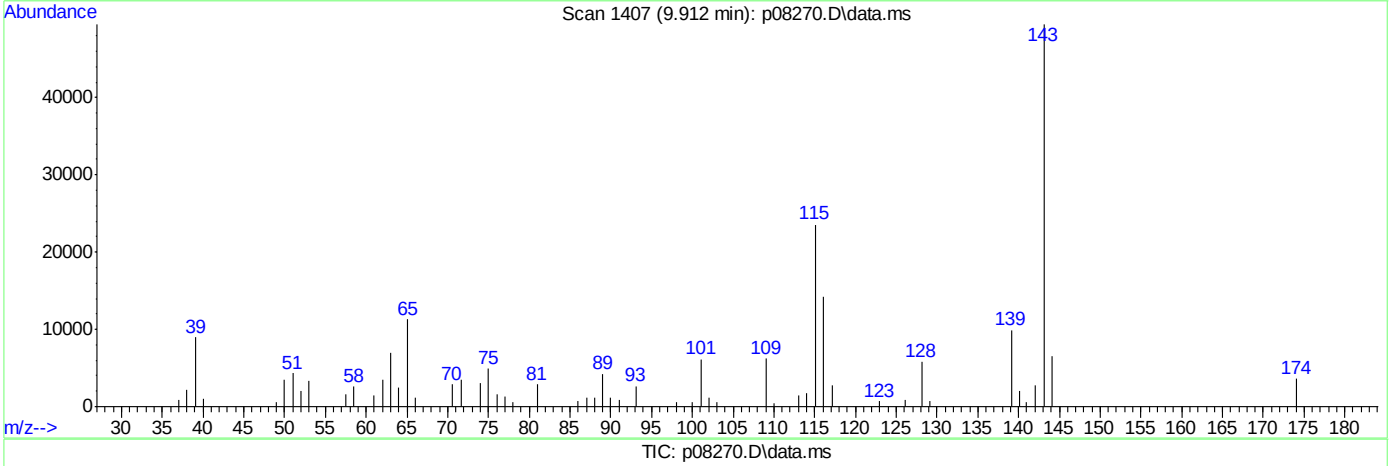
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
```





(78) 4-Nitrophenol (P)

9.912min (-0.016) 7.30ppm m

response 22767

Ion	Exp%	Act%
109.00	100	100
39.10	127.60	0.00#
65.10	173.50	0.00#
139.10	157.80	0.00#

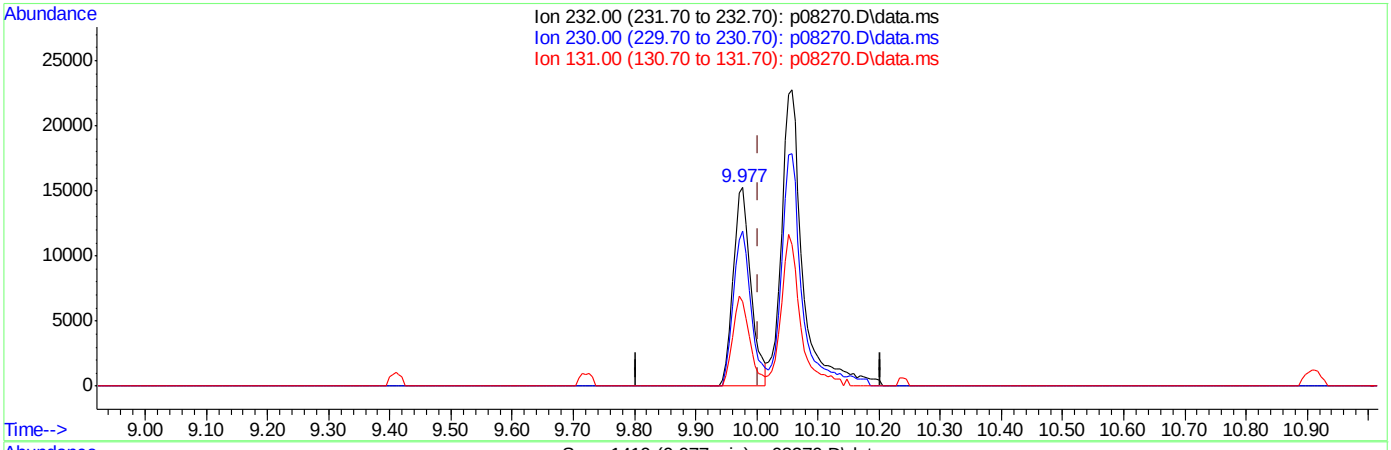
8.6.9.7

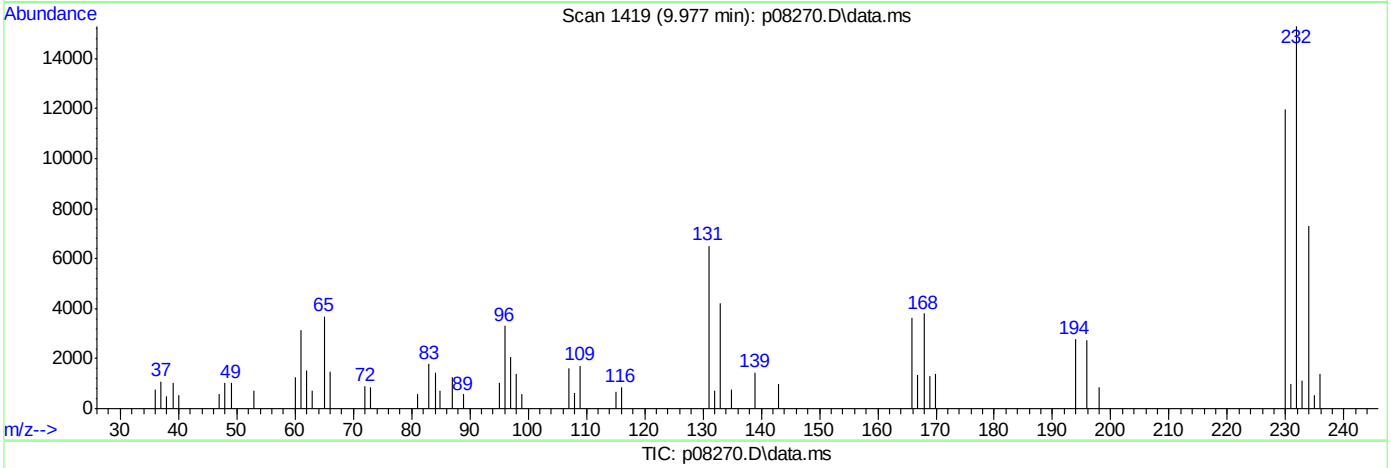
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
```





(81) 2,3,4,6-Tetrachlorophenol

9.977min (-0.026) 6.28ppm m

response 30363

Ion	Exp%	Act%
232.00	100	100
230.00	79.70	126.98#
131.00	42.80	85.39#
0.00	0.00	0.00

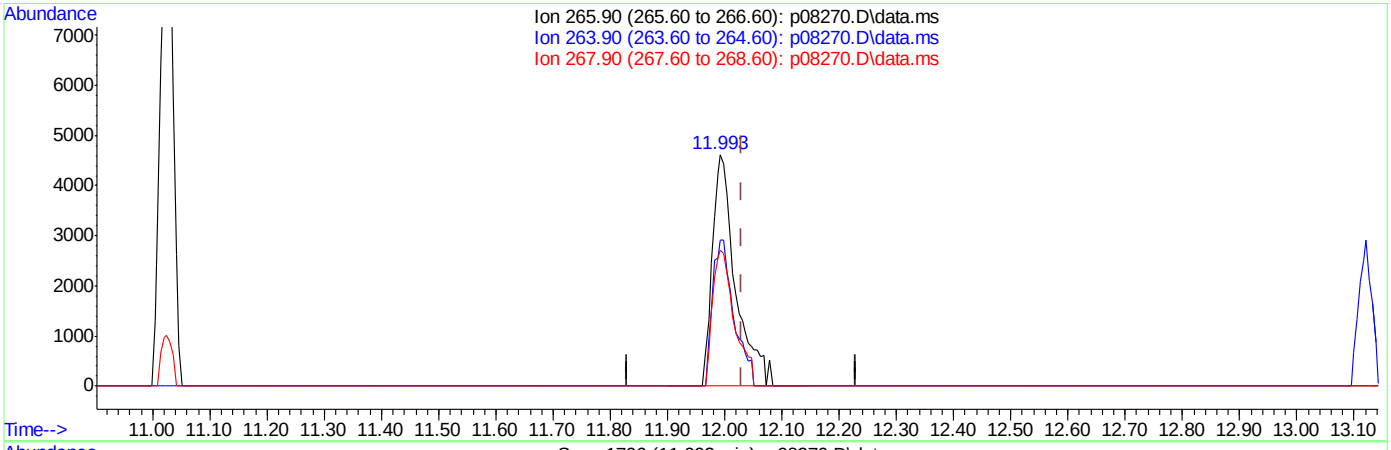
8.6.9.8

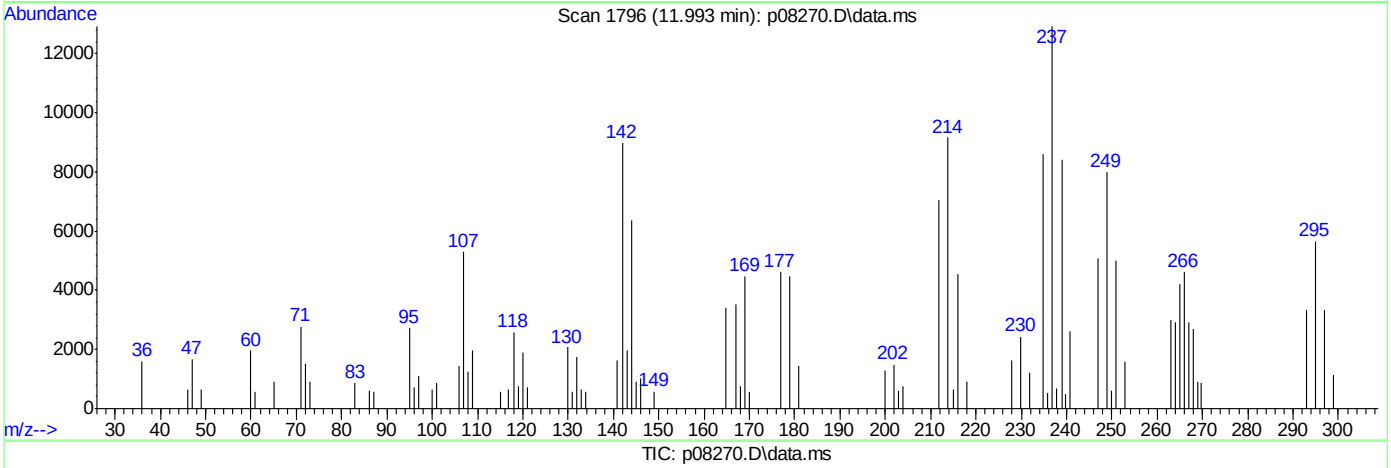
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
```





(104) Pentachlorophenol (C)

11.993min (-0.038) 5.70ppm m

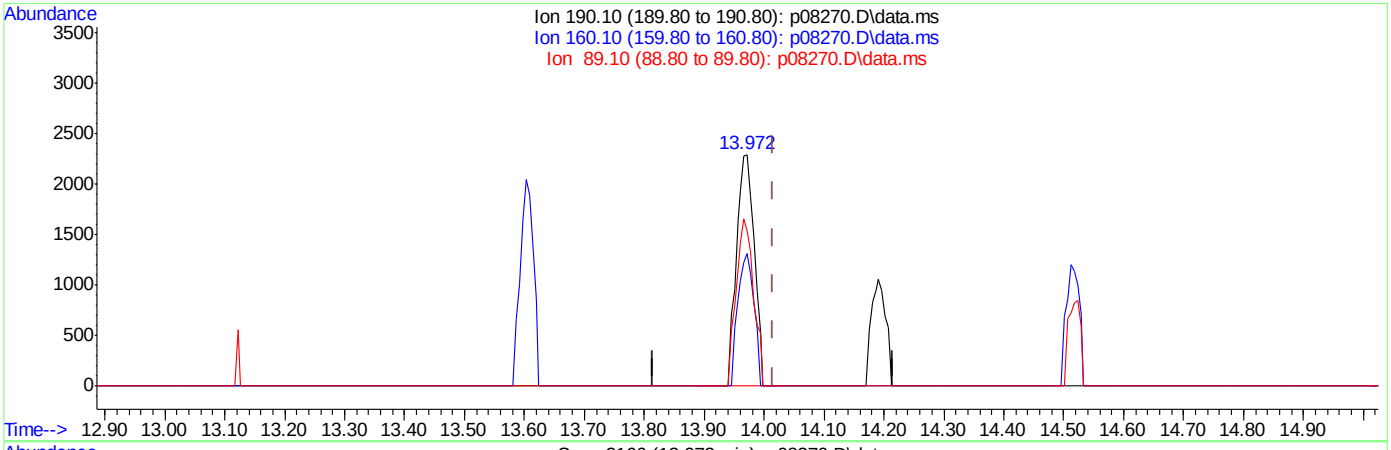
response 13035

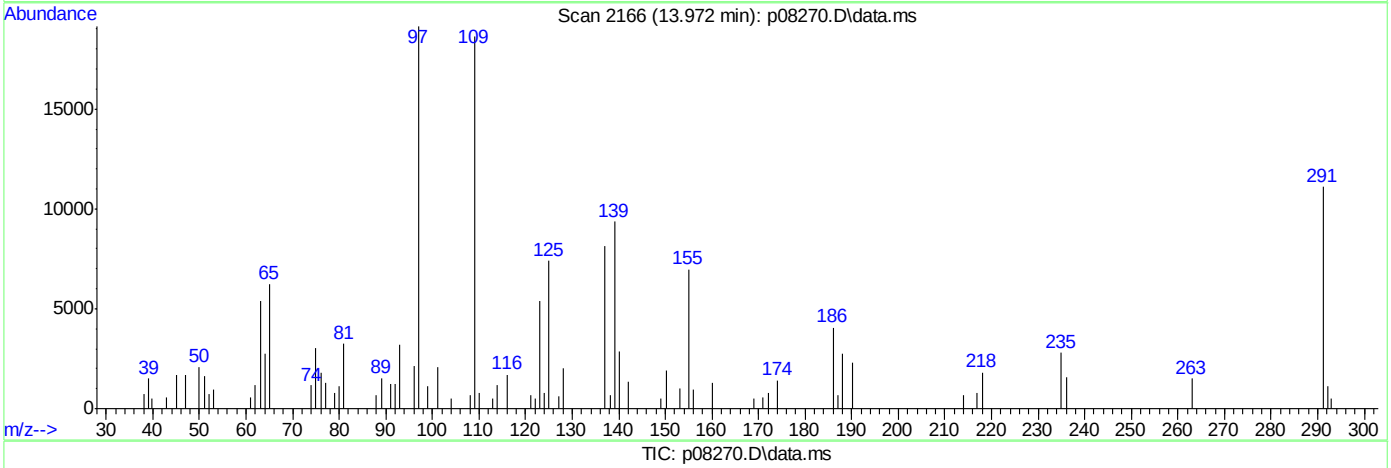
Ion	Exp%	Act%
265.90	100	100
263.90	62.90	0.00#
267.90	62.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
```





(113) 4-Nitroquinoline 1-Oxide

13.972min (-0.043) 5.17ppm m

response 4709

Ion	Exp%	Act%
190.10	100	100
160.10	59.00	0.00#
89.10	66.70	0.00#
0.00	0.00	0.00

8.6.9.10

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08270.D
Acq On    : 22 Jan 2010  10:35 am
Operator  : garyj
Sample    : ic393-10
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jan 22 14:32:43 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:30:13 2010
Response via : Initial Calibration
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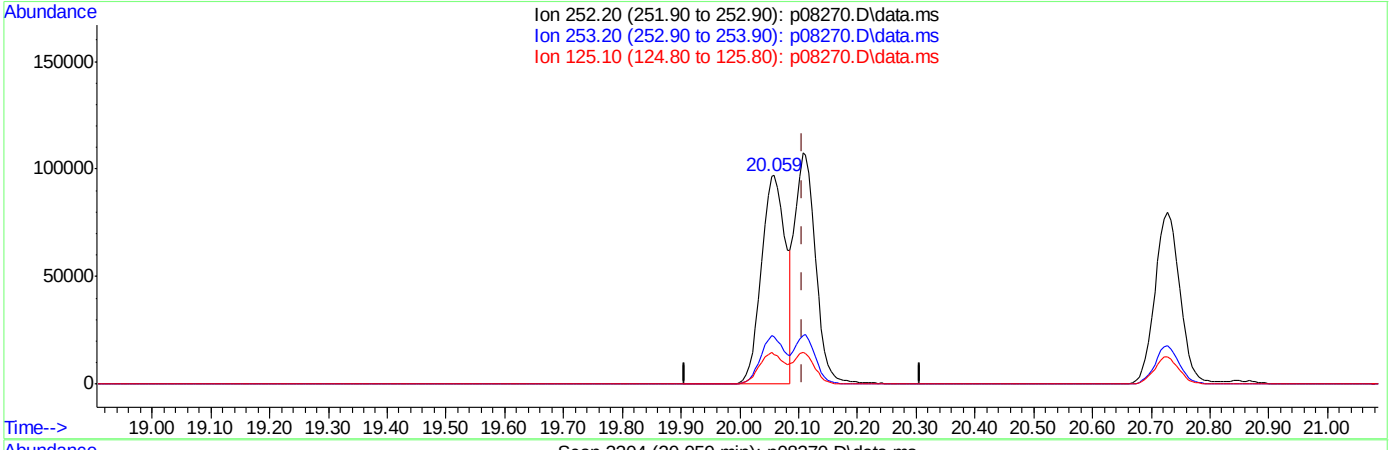
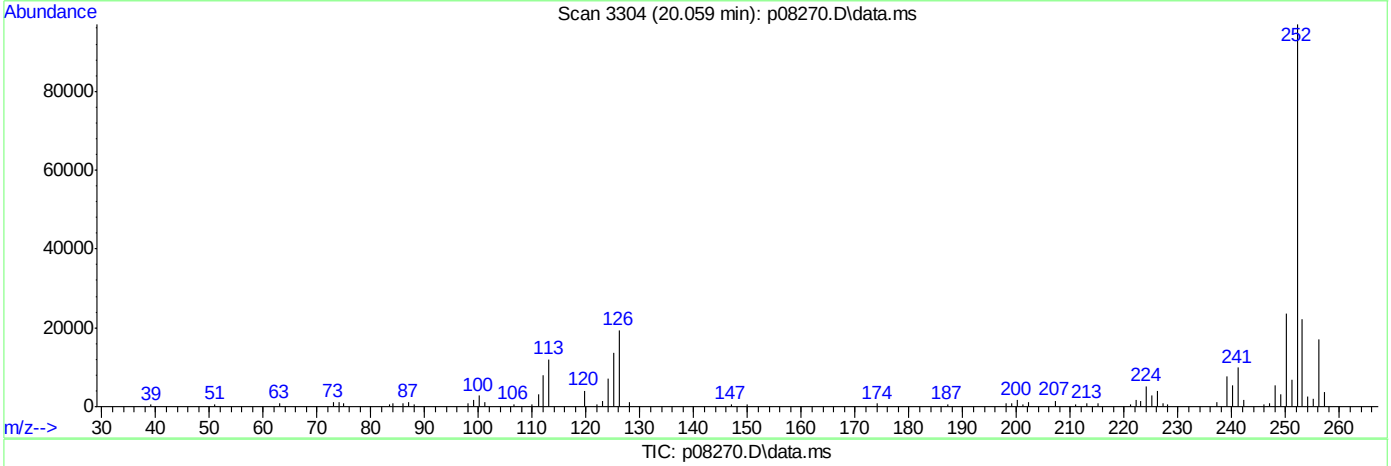




TIC: p08270.D\data.ms

(136) Benzo[b]fluoranthene

20.059min (-0.048) 9.21ppm m

response 281092

Ion	Exp%	Act%
252.20	100	100
253.20	23.70	19.70
125.10	15.20	12.33
0.00	0.00	0.00

8.6.9.11

8

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.382	152	395453	40.00	ppm	0.00
31) Naphthalene-d8	6.735	136	1397475	40.00	ppm	0.00
57) Acenaphthene-d10	9.415	164	896966	40.00	ppm	-0.01
88) Phenanthrene-d10	12.314	188	1426797	40.00	ppm	-0.02
118) Chrysene-d12	17.925	240	1108642	40.00	ppm	-0.02
134) Perylene-d12	20.866	264	673959	40.00	ppm	-0.01
System Monitoring Compounds						
13) 2-Fluorophenol	4.318	112	1604598m	109.92	ppm	-0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 109.92%#			
15) Phenol-d5	5.109	99	1818153	106.64	ppm	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 106.64%#			
32) Nitrobenzene-d5	5.933	82	955767	54.45	ppm	-0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 108.90%			
61) 2-Fluorobiphenyl	8.260	172	1670095	52.42	ppm	-0.01
Spiked Amount 50.000	Range 34 - 113		Recovery = 104.84%			
93) 2,4,6-Tribromophenol	10.934	330	395105	106.75	ppm	-0.03
Spiked Amount 100.000	Range 32 - 128		Recovery = 106.75%			
121) Terphenyl-d14	15.716	244	1415820	49.46	ppm	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 98.92%			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.842	79	418901	26.61	ppm	96
3) 1,4-Dioxane	2.761	88	160966	25.88	ppm	88
4) N-nitrosodimethylamine	3.088	42	204749	25.61	ppm	99
5) Pyridine	3.082	79	416183	25.30	ppm	100
6) 2-Picoline	3.778	93	484315	25.21	ppm #	74
7) N-Nitrosomethylethylamine	3.879	42	280751	25.49	ppm	98
8) Methyl methanesulfonate	4.141	80	262217	26.05	ppm	99
9) N-Nitrosodiethylamine	4.478	102	221958	25.59	ppm	100
10) Ethyl methanesulfonate	4.730	79	348616	24.95	ppm	98
11) Benzaldehyde	4.997	106	187428	39.81	ppm	99
12) Aniline	5.093	93	565835	27.83	ppm #	52
14) bis(2-Chloroethyl)ether	5.141	93	426054	24.53	ppm	90
16) Phenol	5.120	94	529368	27.52	ppm #	95
17) 2-Chlorophenol	5.238	128	402657	26.75	ppm	99
18) 1,3-Dichlorobenzene	5.334	146	494882	26.84	ppm	100
19) 1,4-Dichlorobenzene	5.398	146	461792	26.79	ppm	100
20) 1,2-Dichlorobenzene	5.548	146	452559	28.07	ppm	99
21) Benzyl alcohol	5.527	108	281118	27.25	ppm	97
22) bis(2-chloroisopropyl)...	5.634	45	888541	27.71	ppm	100
23) 2-Methylphenol	5.682	108	395023	24.78	ppm	100
24) N-Nitrosopyrrolidine	5.767	100	212412	28.64	ppm	95
25) N-Nitrosomorpholine	5.794	56	318141	28.90	ppm	98
26) o-Toluidine	5.810	106	603652	27.16	ppm	94
27) Acetophenone	5.773	105	517076	25.37	ppm	99
28) Hexachloroethane	5.880	117	192383	28.15	ppm	98
29) N-Nitroso-di-n-propyla...	5.789	70	305461	27.07	ppm	91
30) 3&4-Methylphenol	5.821	108	428858	29.04	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33)	Nitrobenzene	5.954	77	461199	27.67	ppm		99
34)	N-Nitrosopiperidine	6.104	42	366830	27.11	ppm		99
35)	A,A-Dimethylphenethyla...	7.227	58	1576730m	27.52	ppm		
36)	Isophorone	6.200	82	912930	26.59	ppm		100
37)	2-Nitrophenol	6.286	139	218310	27.54	ppm		98
38)	2,4-Dimethylphenol	6.350	107	430127	28.31	ppm		98
39)	bis(2-Chloroethoxy)met...	6.414	93	512179	26.39	ppm		99
40)	O,O,O-Triethyl phospho...	6.388	121	175369	29.65	ppm		92
41)	Benzoic Acid	6.521	105	95954	18.21	ppm		94
42)	2,4-Dichlorophenol	6.602	162	334684	28.15	ppm		100
43)	1,2,4-Trichlorobenzene	6.660	180	370549	27.61	ppm		100
44)	Naphthalene	6.757	128	1081712	27.58	ppm		100
45)	4-Chloroaniline	6.816	127	458154	28.36	ppm		97
46)	2,6-Dichlorophenol	6.848	162	315464	29.04	ppm		99
47)	Hexachloropropene	6.869	213	189048	29.27	ppm		100
48)	Hexachlorobutadiene	6.912	225	227837	27.59	ppm		100
49)	p-Phenylenediamine	7.302	108	157689	37.06	ppm		99
50)	Caprolactam	7.318	113	145530	26.19	ppm		99
51)	N-Nitrosodi-n-butylamine	7.249	84	315460	25.26	ppm		97
52)	4-Chloro-3-methylphenol	7.527	107	361516	29.04	ppm		100
53)	Isosafrole	7.548	162	306215	28.70	ppm		98
54)	2-Methylnaphthalene	7.687	142	743423	27.90	ppm		99
55)	1-Methylnaphthalene	7.837	142	730284	28.02	ppm		99
56)	1,2,4,5-Tetrachloroben...	7.949	216	337922	27.59	ppm		99
58)	Hexachlorocyclopentadiene	7.939	237	69604	25.34	ppm	#	94
59)	2,4,6-Trichlorophenol	8.153	196	230014	26.19	ppm		99
60)	2,4,5-Trichlorophenol	8.276	196	204822	25.74	ppm		98
62)	Safrole	8.361	162	320492	27.05	ppm		98
63)	1,1'-Biphenyl	8.420	154	887170	27.35	ppm		99
64)	2-Chloronaphthalene	8.458	162	852839	25.80	ppm		94
65)	1-Chloronaphthalene	8.495	162	647255	30.28	ppm		100
66)	2-Nitroaniline	8.629	65	254458	25.64	ppm		99
67)	1,4-Naphthoquinone	8.736	158	264392	27.78	ppm		100
68)	Acenaphthylene	9.158	152	1137951	26.79	ppm		100
69)	Dimethylphthalate	8.955	163	919526	25.78	ppm		100
70)	m-Dinitrobenzene	9.003	168	143735	26.79	ppm	#	76
71)	2,6-Dinitrotoluene	9.046	165	213825	26.83	ppm		85
72)	Acenaphthene	9.474	153	739016	27.00	ppm		100
73)	3-Nitroaniline	9.351	138	203257	27.11	ppm		98
74)	2,4-Dinitrophenol	9.565	184	66914	23.51	ppm		99
75)	Dibenzofuran	9.789	168	919918	26.41	ppm		99
76)	Pentachlorobenzene	9.731	250	301374	26.46	ppm		99
77)	2,4-Dinitrotoluene	9.789	165	244899	25.21	ppm		99
78)	4-Nitrophenol	9.912	109	83561m	24.82	ppm		
79)	1-Naphthylamine	9.934	143	549250	30.71	ppm		99
80)	2-Naphthylamine	10.089	143	472345	32.96	ppm		99
81)	2,3,4,6-Tetrachlorophenol	9.987	232	144853	27.99	ppm		99
82)	Fluorene	10.437	166	734463	26.64	ppm		99
83)	4-Chlorophenyl-phenyle...	10.442	204	375699	27.01	ppm		99
84)	Diethylphthalate	10.260	149	913456	26.68	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) 5-Nitro-o-toluidine	10.495	152	236063	26.32	ppm		98
86) Thionazin	10.415	97	199679	28.66	ppm		98
87) 4-Nitroaniline	10.528	138	187821	26.09	ppm		97
89) 4,6-Dinitro-2-methylph...	10.592	198	126105	27.74	ppm		95
90) n-Nitrosodiphenylamine	10.688	169	757851	27.92	ppm		100
91) 1,2-Diphenylhydrazine	10.758	77	946853	27.09	ppm		99
92) Diphenylamine	10.688	169	757851	27.92	ppm		100
94) Tetraethyl dithiopyrop...	11.041	97	148105	27.86	ppm		99
95) sym-Trinitrobenzene	11.324	213	86541	29.13	ppm	#	16
96) Diallate	11.282	43	469235	28.14	ppm		97
97) Phorate	11.292	75	735984	31.27	ppm		95
98) 4-Bromophenyl-phenylether	11.415	248	236713	27.95	ppm		100
99) Phenacetin	11.383	108	382638	28.14	ppm		93
100) Hexachlorobenzene	11.554	284	226853	27.07	ppm		99
101) Dimethoate	11.640	87	308149	33.13	ppm		100
102) Atrazine	11.811	200	199093	35.43	ppm		100
103) 4-aminobiphenyl	11.950	169	710028	33.19	ppm		99
104) Pentachlorophenol	12.009	266	67739	27.49	ppm		98
105) Pentachloronitrobenzene	12.004	237	103032	27.36	ppm		99
106) Pronamide	12.137	173	408974	27.61	ppm		100
107) Phenanthrene	12.367	178	1033917	27.23	ppm		100
108) Anthracene	12.469	178	1130095	27.65	ppm		100
109) Disulfoton	12.357	88	541447	27.97	ppm		99
110) Carbazole	12.822	167	1029921	27.93	ppm		100
111) Methyl parathion	13.132	109	253408	31.39	ppm		99
112) Di-n-butylphthalate	13.619	149	1520684	27.76	ppm		100
113) 4-Nitroquinoline 1-Oxide	13.988	190	27955	28.45	ppm	#	19
114) Parathion	13.972	97	187436	28.03	ppm		99
115) Methapyrilene	14.197	58	168144	32.69	ppm		99
116) Isodrin	14.528	193	145548	27.63	ppm		99
117) Fluoranthene	14.855	202	1154735	27.42	ppm		99
119) Benzidine	15.165	184	268311	32.65	ppm		100
120) Pyrene	15.325	202	1197977	25.63	ppm		99
122) Aramite	15.871	185	90547	27.98	ppm		99
123) p-(Dimethylamine)azobe...	16.015	120	328419	26.25	ppm		98
124) Chlorobenzilate	16.133	139	412625	26.06	ppm		99
126) 3,3'-Dimethylbenzidine	16.727	212	376444	28.97	ppm		99
127) Famphur	16.641	218	47832	20.01	ppm	#	100
128) Butylbenzylphthalate	16.785	149	599877	26.28	ppm		100
129) 2-Acetylaminofluorene	17.283	181	307190	26.65	ppm		99
130) 3,3'-Dichlorobenzidine	17.871	252	252195	27.80	ppm		99
131) Benzo[a]anthracene	17.898	228	891391	26.18	ppm		100
132) Chrysene	17.978	228	859454	26.76	ppm		99
133) bis(2-Ethylhexyl)phtha...	18.048	149	812512	26.79	ppm		99
135) Di-n-octylphthalate	19.347	149	1267593	29.78	ppm		100
136) Benzo[b]fluoranthene	20.075	252	670231	26.86	ppm		99
137) Benzo[k]fluoranthene	20.128	252	640785	29.66	ppm		99
138) 7,12-Dimethylbenz(a)an...	20.053	256	303759	29.13	ppm		99
140) Benzo[a]pyrene	20.738	252	561420	26.93	ppm		100
141) 3-Methylcholanthrene	21.519	268	236253	26.14	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.487	276	399582	24.10 ppm	99
143) Dibenz[a,h]anthracene	23.519	278	334424	24.01 ppm	99
144) Benzo[g,h,i]perylene	24.247	276	317621	23.76 ppm	100

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

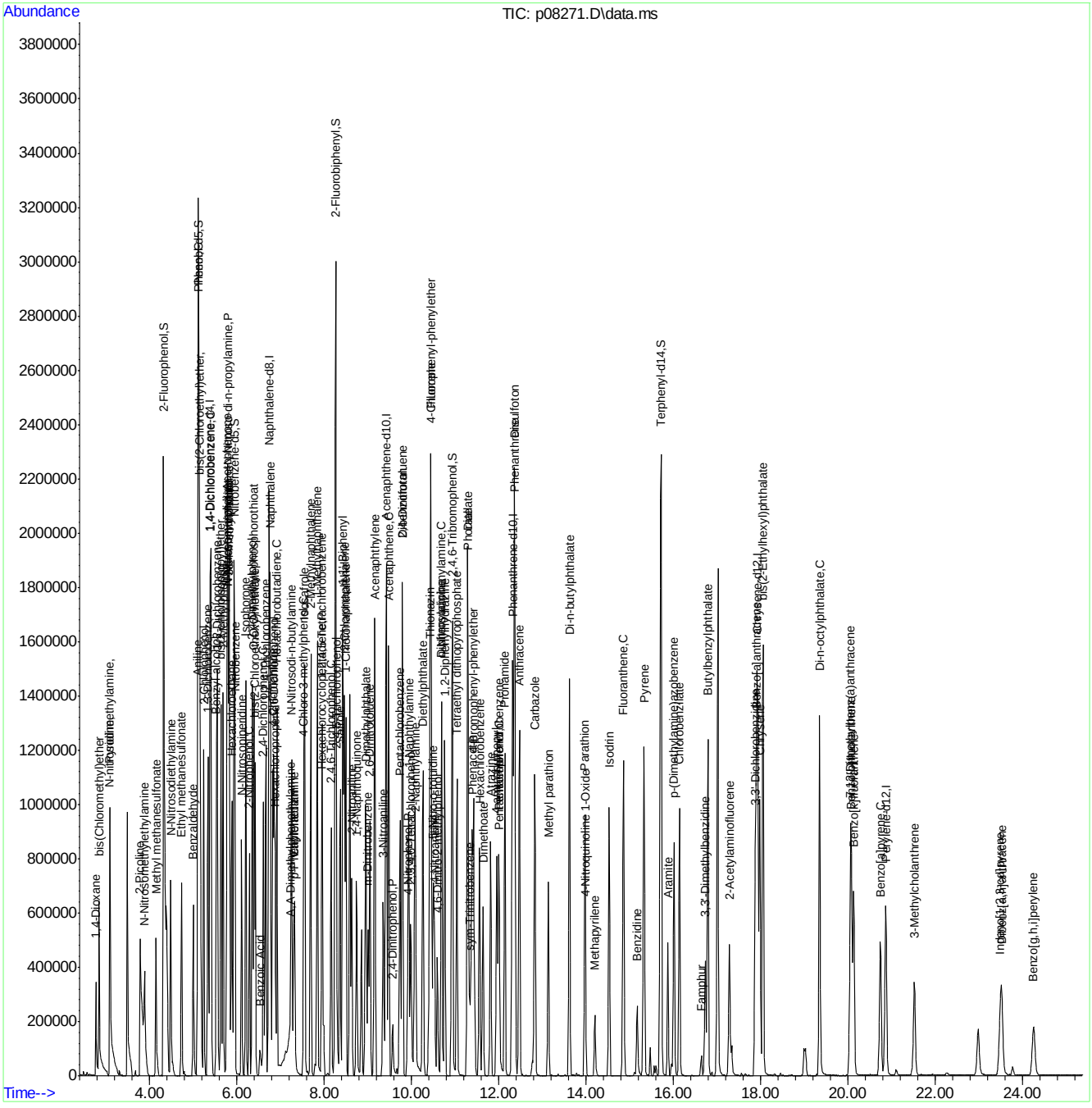
8.6.10

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration

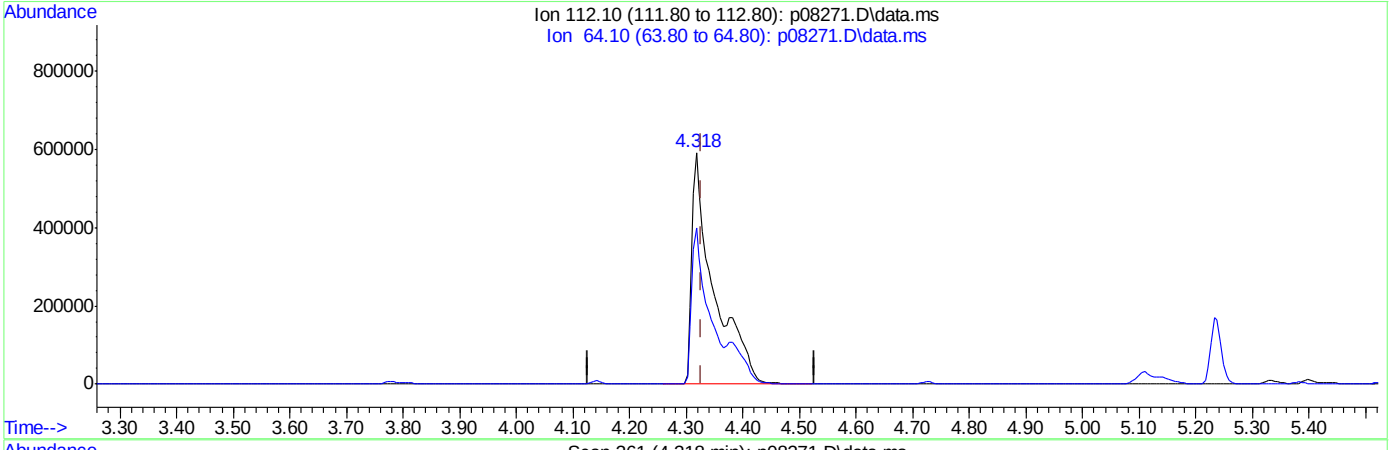


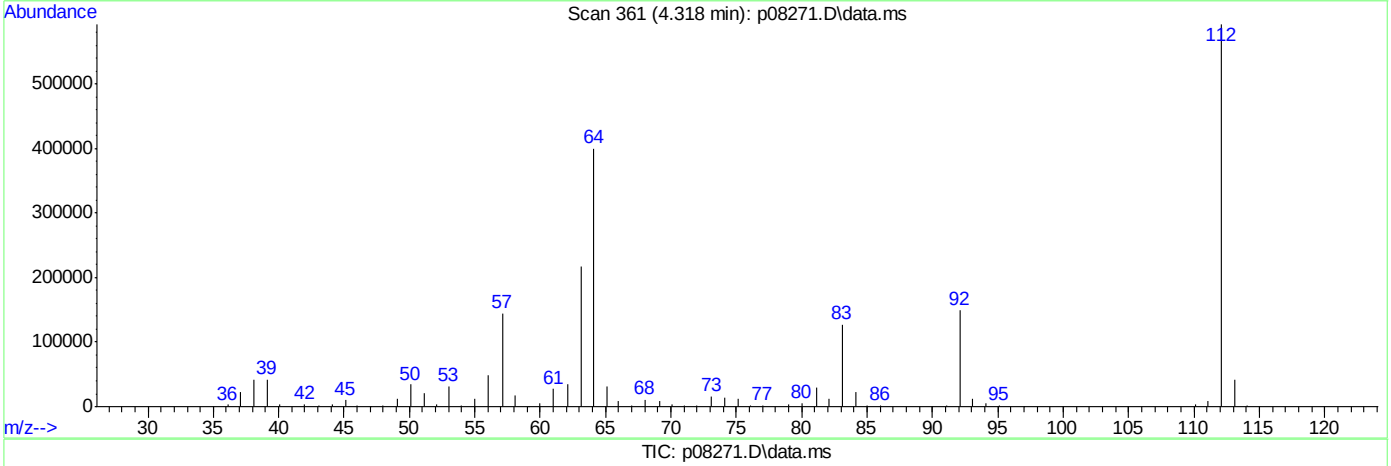
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration





TIC: p08271.D\data.ms

(13) 2-Fluorophenol (S)

4.318min (-0.010) 109.92ppm m

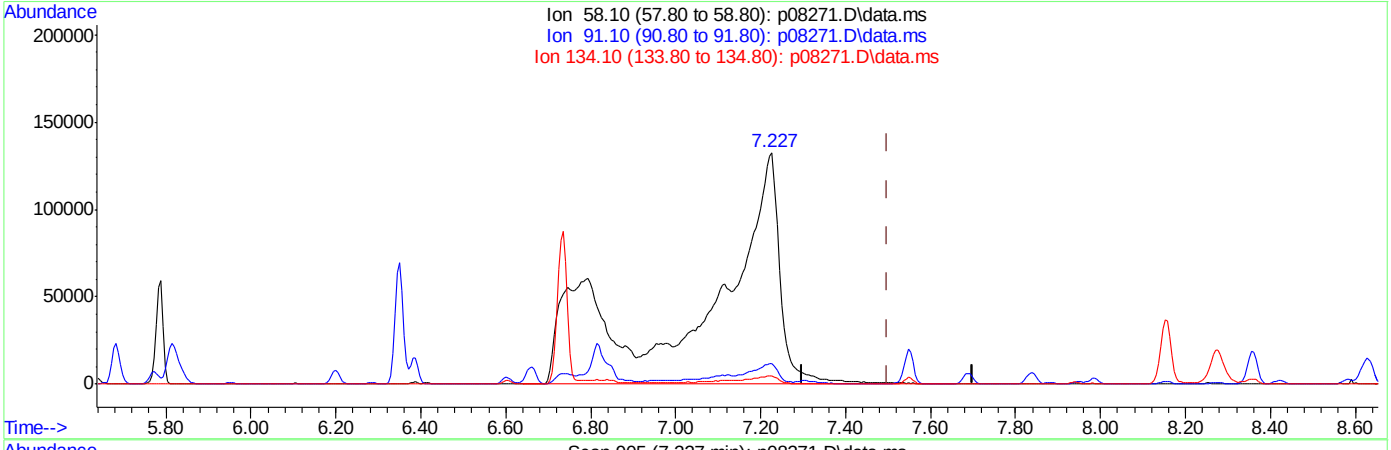
response 1604598

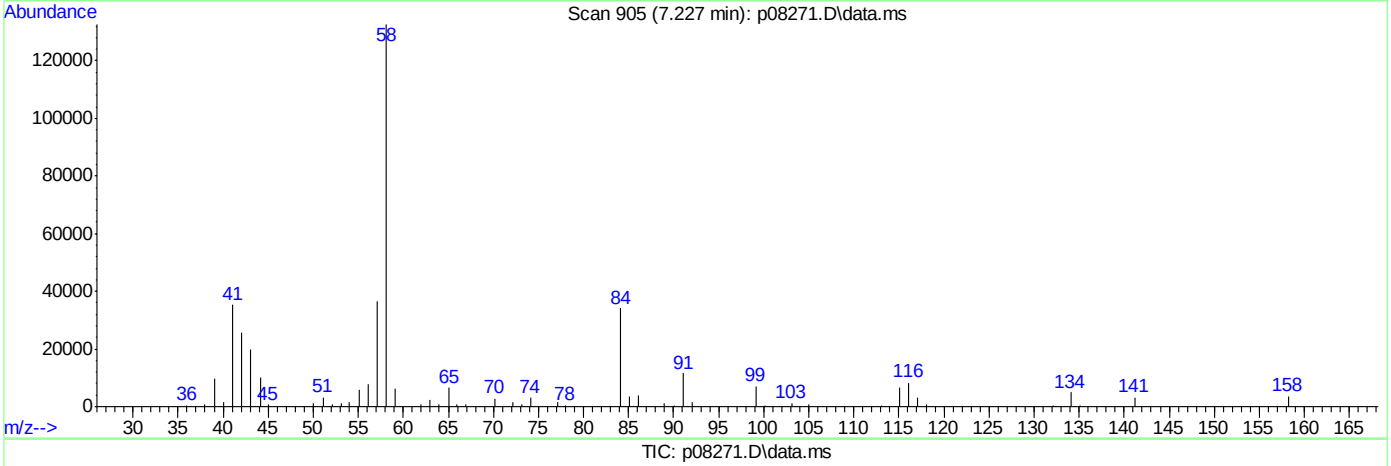
Ion	Exp%	Act%
112.10	100	100
64.10	50.10	50.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration





TIC: p08271.D\data.ms

(35) A,A-Dimethylphenethylamine

7.227min (-0.273) 27.52ppm m

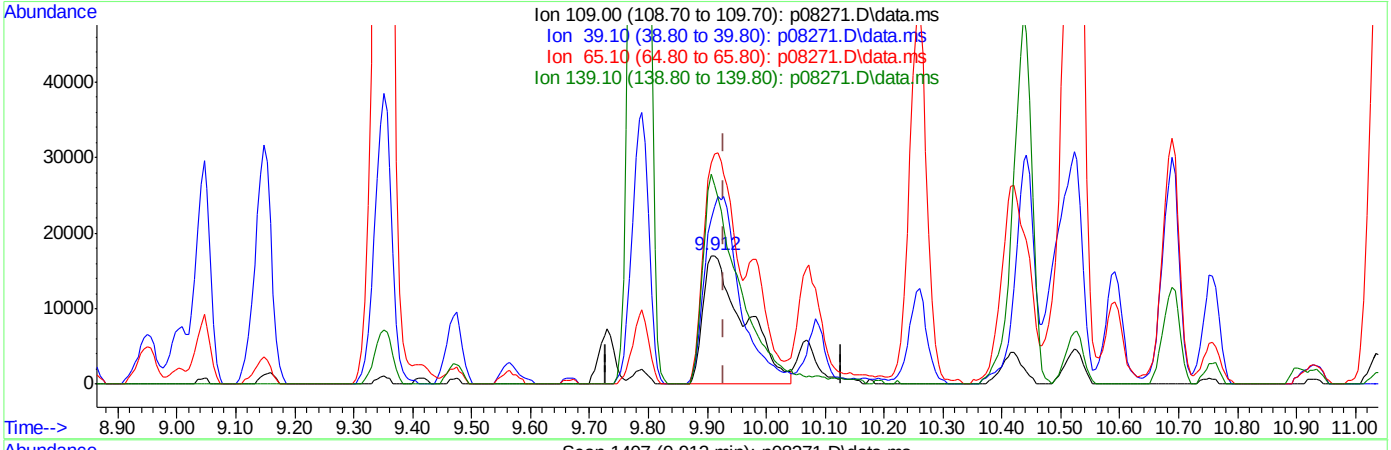
response 1576730

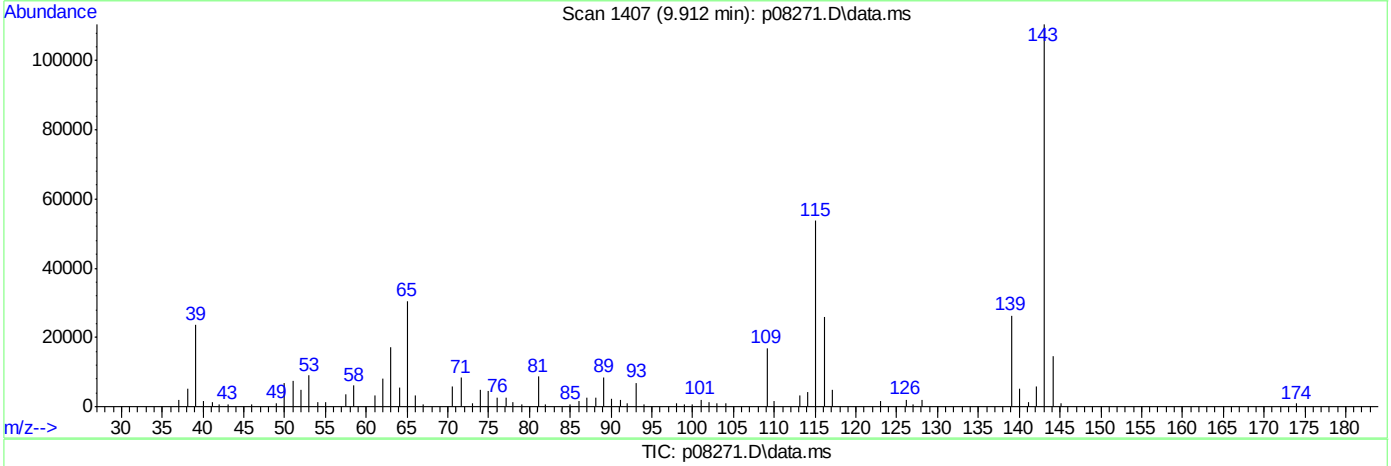
Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08271.D
Acq On : 22 Jan 2010 11:07 am
Operator : garyj
Sample : ic393-25
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 22 14:34:56 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:33:04 2010
Response via : Initial Calibration





(78) 4-Nitrophenol (P)

9.912min (-0.016) 24.82ppm m

response 83561

Ion	Exp%	Act%
109.00	100	100
39.10	127.60	124.26
65.10	173.50	132.28#
139.10	157.80	140.97

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.388	152	374489	40.00	ppm	0.00
31) Naphthalene-d8	6.741	136	1359889	40.00	ppm	0.00
57) Acenaphthene-d10	9.426	164	869500	40.00	ppm	0.00
88) Phenanthrene-d10	12.335	188	1433912	40.00	ppm	0.00
118) Chrysene-d12	17.946	240	1110622	40.00	ppm	0.00
134) Perylene-d12	20.877	264	637283	40.00	ppm	0.00
System Monitoring Compounds						
13) 2-Fluorophenol	4.328	112	2699286	195.30	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 195.30%#			
15) Phenol-d5	5.125	99	2995025	185.50	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 185.50%#			
32) Nitrobenzene-d5	5.949	82	1666322	97.55	ppm	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 195.10%#			
61) 2-Fluorobiphenyl	8.270	172	2772675	89.78	ppm	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 179.56%#			
93) 2,4,6-Tribromophenol	10.961	330	737125	198.17	ppm	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 198.17%#			
121) Terphenyl-d14	15.737	244	2656820	92.64	ppm	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 185.28%#			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.836	79	763338	51.21	ppm	100
3) 1,4-Dioxane	2.761	88	298187	50.64	ppm	100
4) N-nitrosodimethylamine	3.093	42	388334	51.28	ppm	100
5) Pyridine	3.082	79	793874	50.96	ppm	100
6) 2-Picoline	3.788	93	921852m	50.68	ppm	
7) N-Nitrosomethylethylamine	3.890	42	540573	51.83	ppm	100
8) Methyl methanesulfonate	4.152	80	484282	50.81	ppm	100
9) N-Nitrosodiethylamine	4.494	102	414220	50.42	ppm	100
10) Ethyl methanesulfonate	4.746	79	664510	50.22	ppm	100
11) Benzaldehyde	5.002	106	196122	43.98	ppm	100
12) Aniline	5.104	93	929864	48.30	ppm	100
14) bis(2-Chloroethyl)ether	5.147	93	798153	48.53	ppm	100
16) Phenol	5.136	94	885792	48.64	ppm #	100
17) 2-Chlorophenol	5.243	128	707111	49.60	ppm	100
18) 1,3-Dichlorobenzene	5.339	146	863296	49.44	ppm	100
19) 1,4-Dichlorobenzene	5.404	146	803572	49.23	ppm	100
20) 1,2-Dichlorobenzene	5.553	146	723807	47.41	ppm	100
21) Benzyl alcohol	5.543	108	477868	48.91	ppm	100
22) bis(2-chloroisopropyl)...	5.639	45	1527044	50.28	ppm	100
23) 2-Methylphenol	5.708	108	725075	48.03	ppm	100
24) N-Nitrosopyrrolidine	5.821	100	326669	46.51	ppm	100
25) N-Nitrosomorpholine	5.826	56	507779	48.72	ppm	100
26) o-Toluidine	5.826	106	988114	46.95	ppm	100
27) Acetophenone	5.789	105	936982	48.55	ppm #	100
28) Hexachloroethane	5.880	117	334205	51.64	ppm	100
29) N-Nitroso-di-n-propyla...	5.815	70	497849	46.59	ppm	100
30) 3&4-Methylphenol	5.837	108	675814	48.32	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33)	Nitrobenzene	5.971	77	793764	48.93	ppm	100
34)	N-Nitrosopiperidine	6.126	42	665918	50.57	ppm	100
35)	A,A-Dimethylphenethyla...	7.500	58	2845189m	51.02	ppm	
36)	Isophorone	6.222	82	1622170	48.55	ppm	100
37)	2-Nitrophenol	6.297	139	398665	51.68	ppm	100
38)	2,4-Dimethylphenol	6.366	107	739969	50.05	ppm	100
39)	bis(2-Chloroethoxy)met...	6.430	93	892947m	47.28	ppm	
40)	O,O,O-Triethyl phospho...	6.398	121	277699	48.25	ppm	100
41)	Benzoic Acid	6.575	105	263933	51.47	ppm	100
42)	2,4-Dichlorophenol	6.612	162	593628	51.32	ppm	100
43)	1,2,4-Trichlorobenzene	6.666	180	644924	49.38	ppm	100
44)	Naphthalene	6.773	128	1837396	48.13	ppm	100
45)	4-Chloroaniline	6.832	127	814068	51.78	ppm	100
46)	2,6-Dichlorophenol	6.858	162	527366	49.89	ppm	100
47)	Hexachloropropene	6.874	213	343307	54.63	ppm	100
48)	Hexachlorobutadiene	6.923	225	395225	49.18	ppm	100
49)	p-Phenylenediamine	7.329	108	283133	68.38	ppm	100
50)	Caprolactam	7.377	113	270092	49.95	ppm	100
51)	N-Nitrosodi-n-butylamine	7.270	84	552189	45.45	ppm	100
52)	4-Chloro-3-methylphenol	7.548	107	599549	49.48	ppm	100
53)	Isosafrole	7.564	162	502086	48.36	ppm	100
54)	2-Methylnaphthalene	7.703	142	1257601	48.49	ppm	100
55)	1-Methylnaphthalene	7.848	142	1238245	48.83	ppm	100
56)	1,2,4,5-Tetrachloroben...	7.966	216	577872	48.49	ppm	100
58)	Hexachlorocyclopentadiene	7.949	237	162638	61.08	ppm	100
59)	2,4,6-Trichlorophenol	8.174	196	425617	49.99	ppm	100
60)	2,4,5-Trichlorophenol	8.286	196	373785	48.45	ppm	100
62)	Safrole	8.377	162	556858	48.49	ppm	100
63)	1,1'-Biphenyl	8.442	154	1468180	46.70	ppm	100
64)	2-Chloronaphthalene	8.474	162	1437462	44.86	ppm	100
65)	1-Chloronaphthalene	8.511	162	1080796m	52.15	ppm	
66)	2-Nitroaniline	8.650	65	470565	48.91	ppm	100
67)	1,4-Naphthoquinone	8.757	158	435196	47.16	ppm	100
68)	Acenaphthylene	9.174	152	1914557	46.50	ppm	100
69)	Dimethylphthalate	8.982	163	1660214	48.01	ppm	100
70)	m-Dinitrobenzene	9.035	168	268040	51.54	ppm	100
71)	2,6-Dinitrotoluene	9.073	165	379046	49.07	ppm	100
72)	Acenaphthene	9.490	153	1262967	47.60	ppm	100
73)	3-Nitroaniline	9.383	138	381222	52.46	ppm	100
74)	2,4-Dinitrophenol	9.592	184	160232	58.07	ppm	100
75)	Dibenzofuran	9.805	168	1591983	47.15	ppm	100
76)	Pentachlorobenzene	9.747	250	530162	48.02	ppm	100
77)	2,4-Dinitrotoluene	9.827	165	449879	47.78	ppm	100
78)	4-Nitrophenol	9.928	109	163912m	50.04	ppm	
79)	1-Naphthylamine	9.955	143	1005596	57.99	ppm	100
80)	2-Naphthylamine	10.116	143	893771	64.34	ppm	100
81)	2,3,4,6-Tetrachlorophenol	10.003	232	292595	58.33	ppm	100
82)	Fluorene	10.453	166	1230306	46.04	ppm	100
83)	4-Chlorophenyl-phenyle...	10.463	204	616741	45.73	ppm	100
84)	Diethylphthalate	10.287	149	1610533	48.53	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	5-Nitro-o-toluidine	10.533	152	441587	50.78	ppm		100
86)	Thionazin	10.437	97	325307	48.17	ppm		100
87)	4-Nitroaniline	10.576	138	357882	51.29	ppm		100
89)	4,6-Dinitro-2-methylph...	10.635	198	259345	56.76	ppm		99
90)	n-Nitrosodiphenylamine	10.715	169	1333684	48.90	ppm		100
91)	1,2-Diphenylhydrazine	10.779	77	1672560	47.61	ppm		100
92)	Diphenylamine	10.715	169	1333684	48.90	ppm		100
94)	Tetraethyl dithiopyrop...	11.062	97	254428	47.63	ppm		100
95)	sym-Trinitrobenzene	11.373	213	175944	58.93	ppm		100
96)	Diallate	11.303	43	772211	46.08	ppm		100
97)	Phorate	11.319	75	945710	39.98	ppm	#	81
98)	4-Bromophenyl-phenylether	11.431	248	398431	46.81	ppm		100
99)	Phenacetin	11.437	108	657589	48.13	ppm		100
100)	Hexachlorobenzene	11.576	284	407963	48.44	ppm		100
101)	Dimethoate	11.678	87	440496	47.12	ppm		100
102)	Atrazine	11.843	200	261449	46.30	ppm		100
103)	4-aminobiphenyl	11.977	169	1239183	57.64	ppm		100
104)	Pentachlorophenol	12.031	266	151156	61.03	ppm		100
105)	Pentachloronitrobenzene	12.014	237	188054	49.68	ppm		100
106)	Pronamide	12.170	173	726481	48.81	ppm		100
107)	Phenanthrene	12.389	178	1809325	47.41	ppm		100
108)	Anthracene	12.490	178	2031452	49.46	ppm		100
109)	Disulfoton	12.378	88	877368	45.10	ppm		100
110)	Carbazole	12.844	167	1908776	51.51	ppm		100
111)	Methyl parathion	13.148	109	394219	48.58	ppm		100
112)	Di-n-butylphthalate	13.630	149	2629780	47.76	ppm		100
113)	4-Nitroquinoline 1-Oxide	14.015	190	67688	68.54	ppm		100
114)	Parathion	13.993	97	334302	49.75	ppm		100
115)	Methapyrilene	14.213	58	308737	59.73	ppm		100
116)	Isodrin	14.539	193	254747	48.12	ppm		100
117)	Fluoranthene	14.871	202	2136170	50.47	ppm		100
119)	Benzidine	15.186	184	480017	58.31	ppm		100
120)	Pyrene	15.347	202	2233240	47.69	ppm		100
122)	Aramite	15.887	185	156689	48.33	ppm		100
123)	p-(Dimethylamine)azobe...	16.031	120	626186	49.95	ppm		100
124)	Chlorobenzilate	16.149	139	758897	47.85	ppm		100
126)	3,3'-Dimethylbenzidine	16.743	212	659900	50.69	ppm		100
127)	Famphur	16.652	218	28006	11.69	ppm	#	100
128)	Butylbenzylphthalate	16.802	149	1119026	48.93	ppm		100
129)	2-Acetylaminofluorene	17.315	181	603583	52.25	ppm		100
130)	3,3'-Dichlorobenzidine	17.893	252	463157	50.97	ppm		100
131)	Benzo[a]anthracene	17.919	228	1687291	49.46	ppm		100
132)	Chrysene	18.005	228	1557023	48.39	ppm		100
133)	bis(2-Ethylhexyl)phtha...	18.064	149	1456013	47.92	ppm		100
135)	Di-n-octylphthalate	19.363	149	2165406	53.79	ppm		100
136)	Benzo[b]fluoranthene	20.107	252	1178432	49.94	ppm		100
137)	Benzo[k]fluoranthene	20.155	252	1057951m	51.80	ppm		
138)	7,12-Dimethylbenz(a)an...	20.080	256	564087	57.20	ppm		100
140)	Benzo[a]pyrene	20.759	252	976600	49.54	ppm		100
141)	3-Methylcholanthrene	21.540	268	386887	45.27	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.509	276	672131	42.87 ppm	100
143) Dibenz[a,h]anthracene	23.546	278	574727	43.64 ppm	100
144) Benzo[g,h,i]perylene	24.279	276	534714	42.30 ppm	100

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

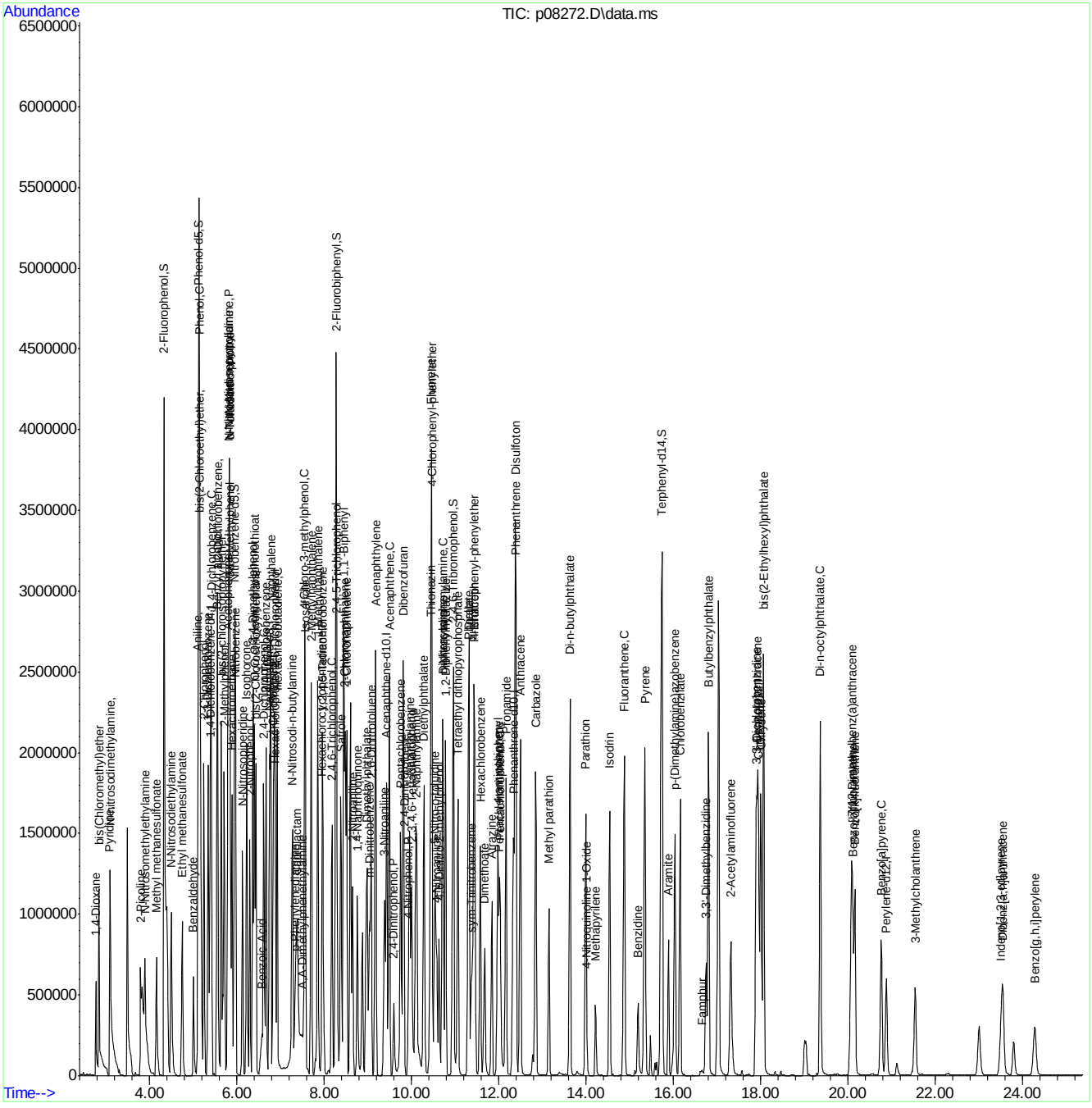
8.6.11

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

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Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
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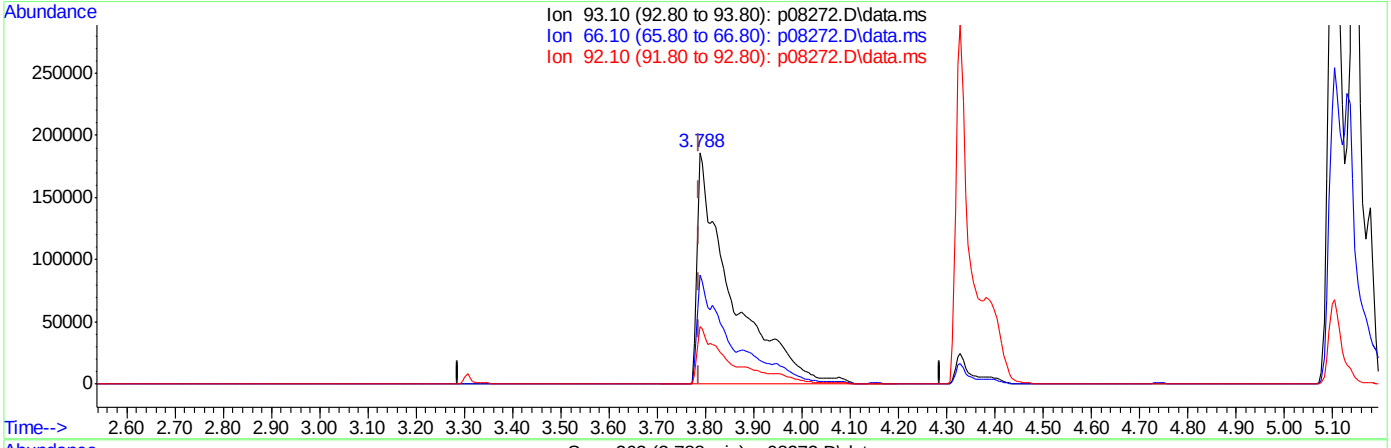

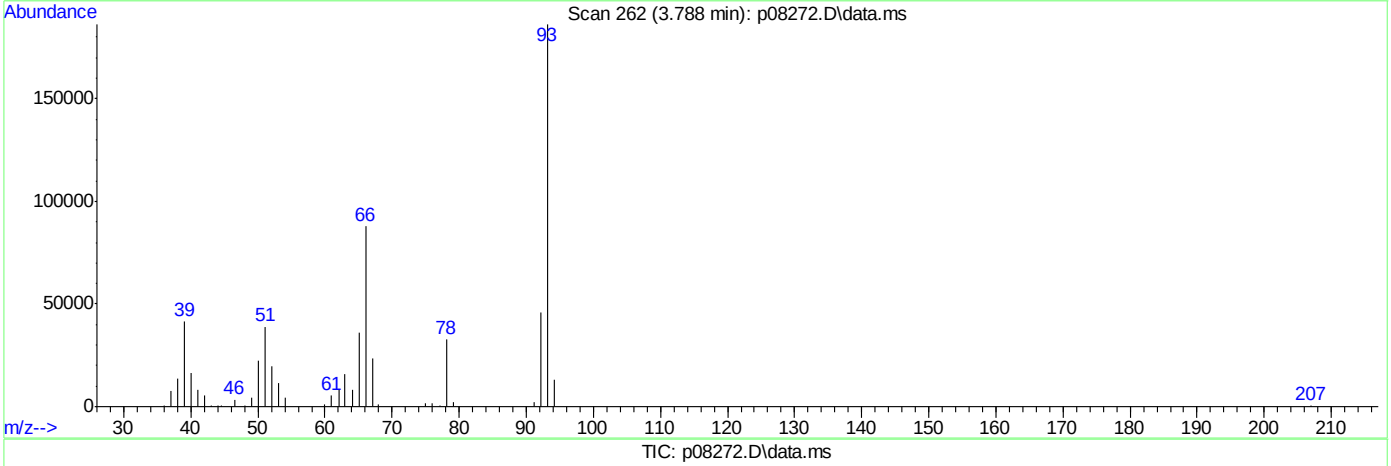

TIC: p08272.D\data.ms

(6) 2-Picoline

3.788min (+0.000) 50.68ppm m

response 921852

Ion	Exp%	Act%
93.10	100	100
66.10	30.20	30.18
92.10	16.30	16.28
0.00	0.00	0.00

ACCUTEST Laboratories

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On    : 22 Jan 2010  11:40 am
Operator  : garyj
Sample    : icc393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration
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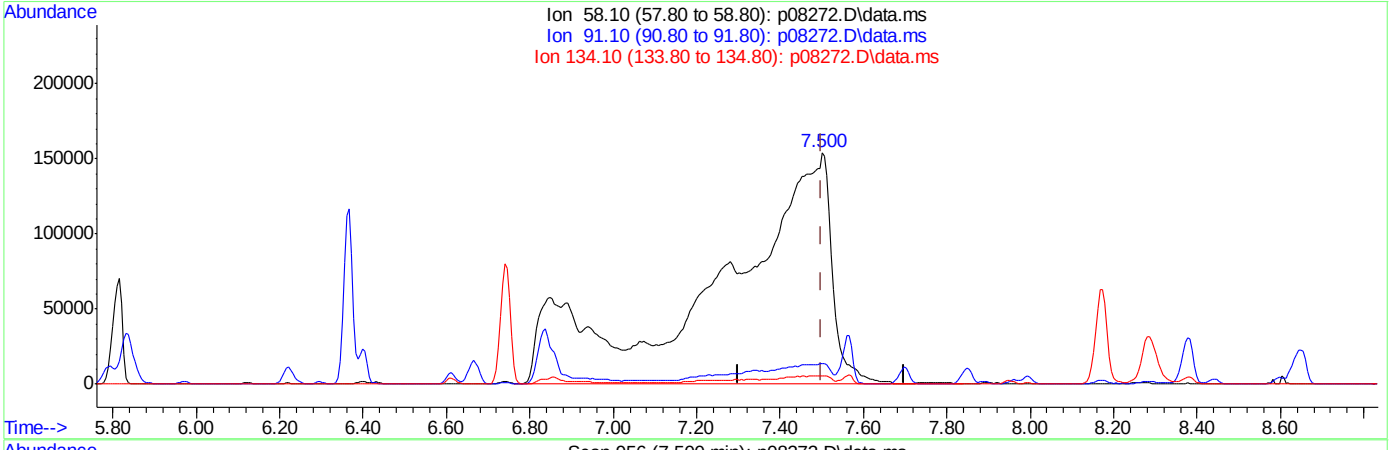
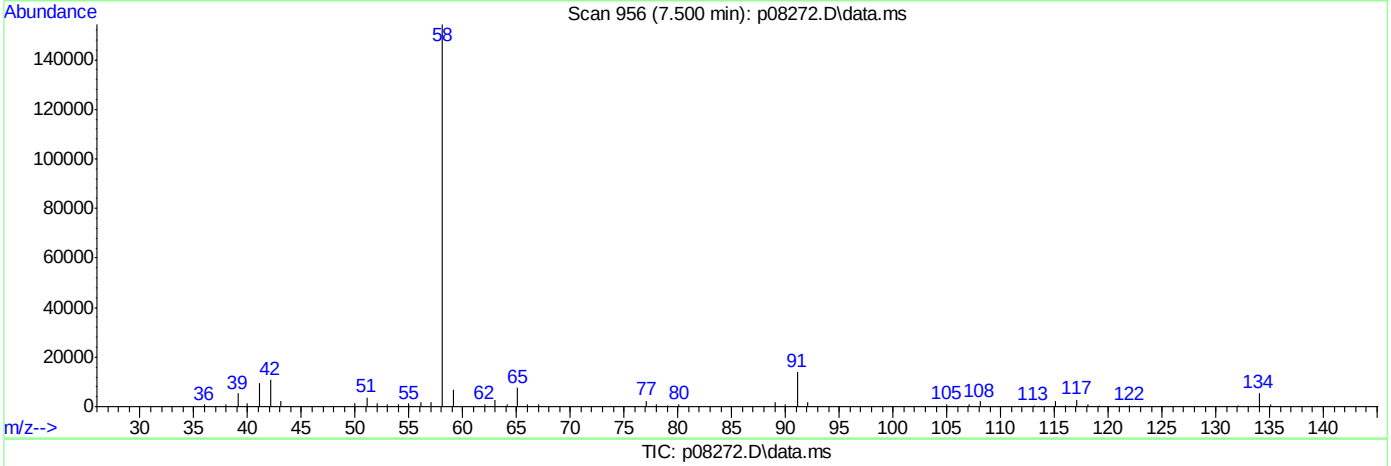




TIC: p08272.D\data.ms

(35) A,A-Dimethylphenethylamine

7.500min (+0.000) 51.02ppm m

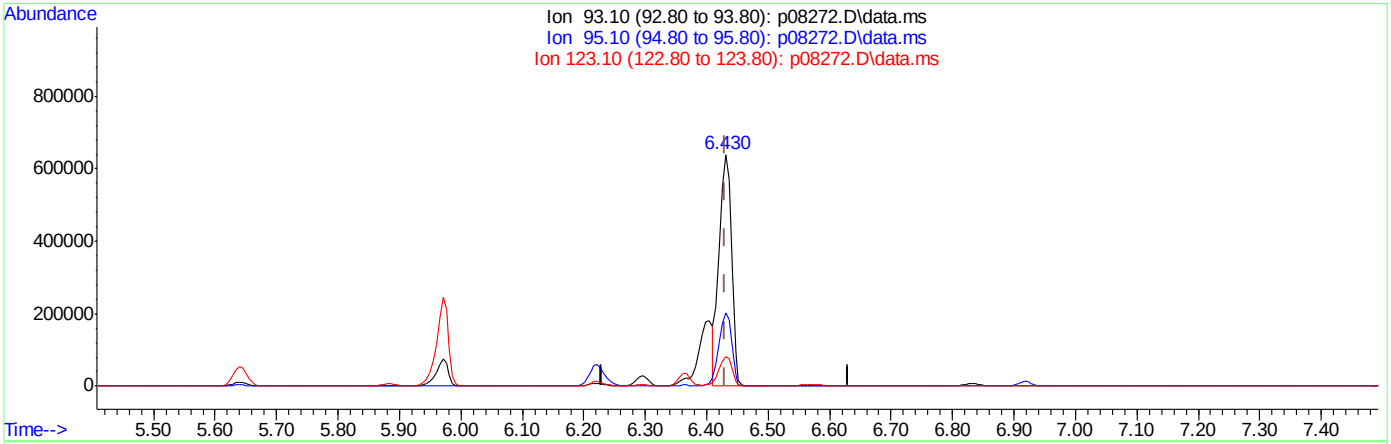
response 2845189

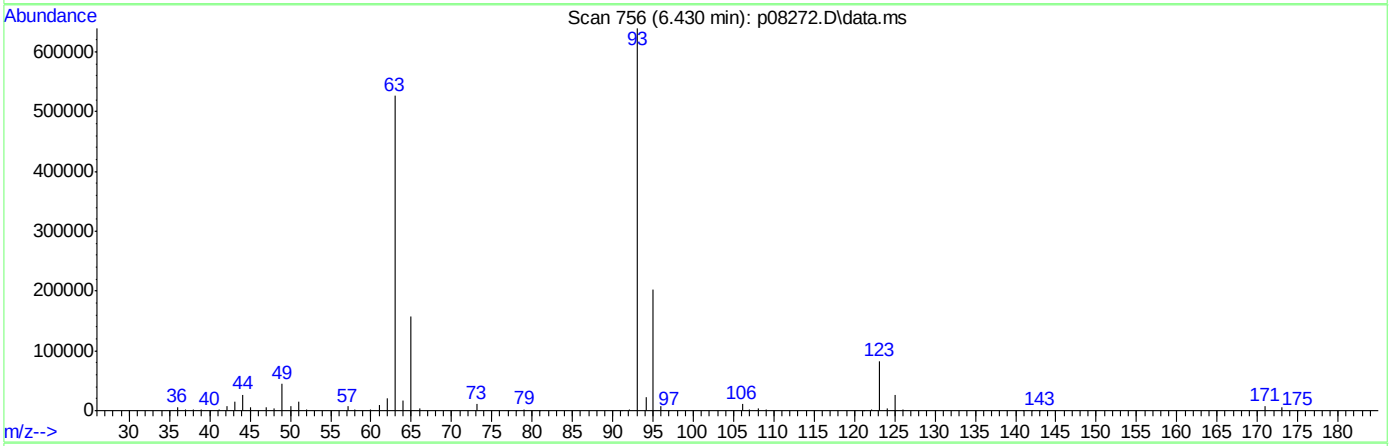
Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration





TIC: p08272.D\data.ms

(39) bis(2-Chloroethoxy)methane

6.430min (+0.000) 47.28ppm m

response 892947

Ion	Exp%	Act%
93.10	100	100
95.10	32.80	32.79
123.10	13.50	13.52
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On    : 22 Jan 2010  11:40 am
Operator  : garyj
Sample    : icc393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration
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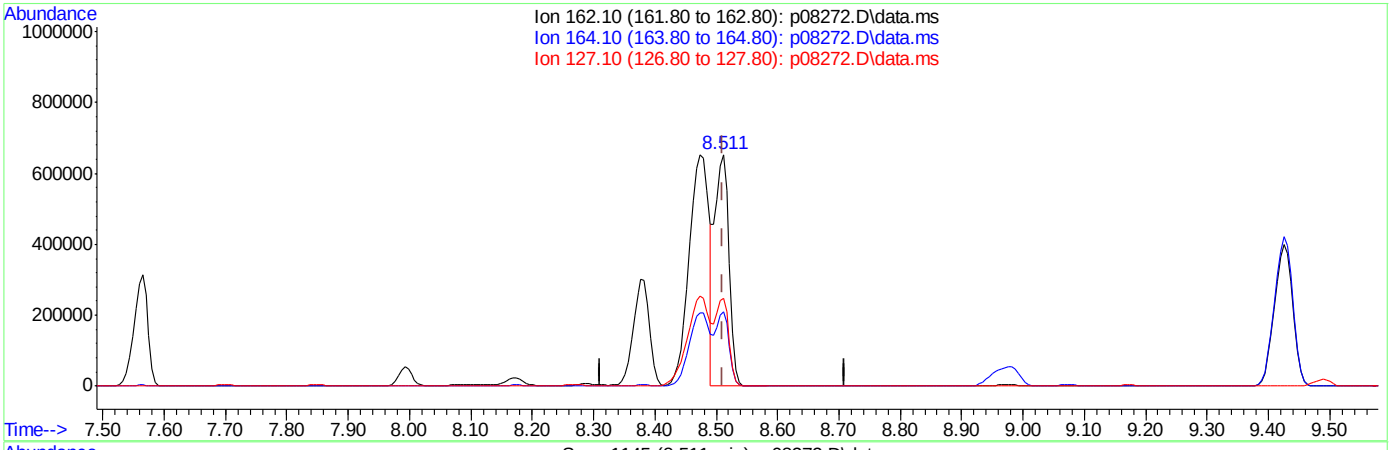

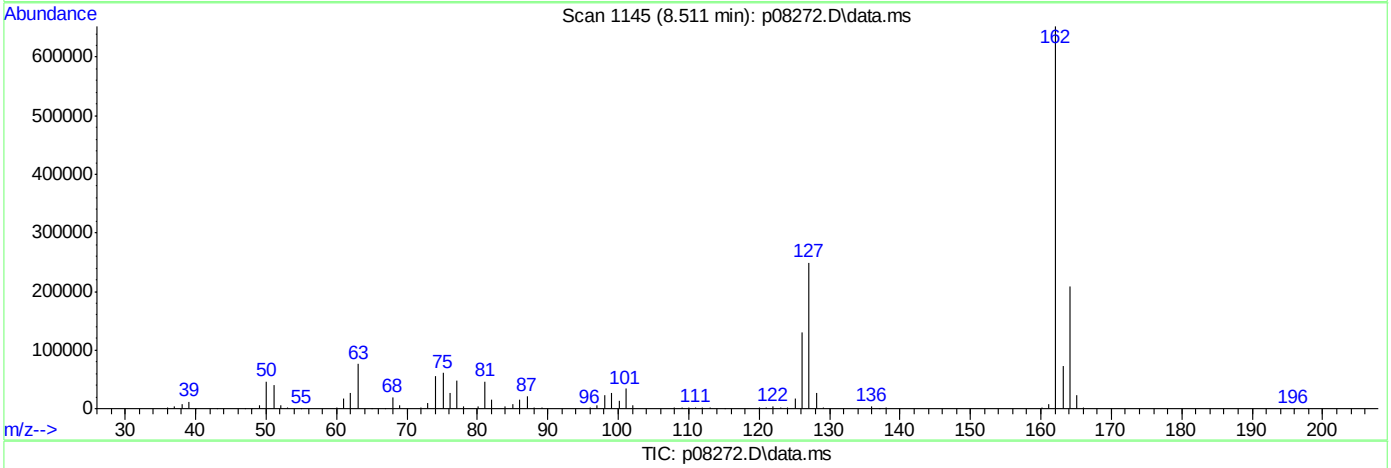

TIC: p08272.D\data.ms

(65) 1-Chloronaphthalene

8.511min (+0.000) 52.15ppm m

response 1080796

Ion	Exp%	Act%
162.10	100	100
164.10	32.10	27.71
127.10	37.80	32.67
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On    : 22 Jan 2010  11:40 am
Operator  : garyj
Sample    : icc393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration
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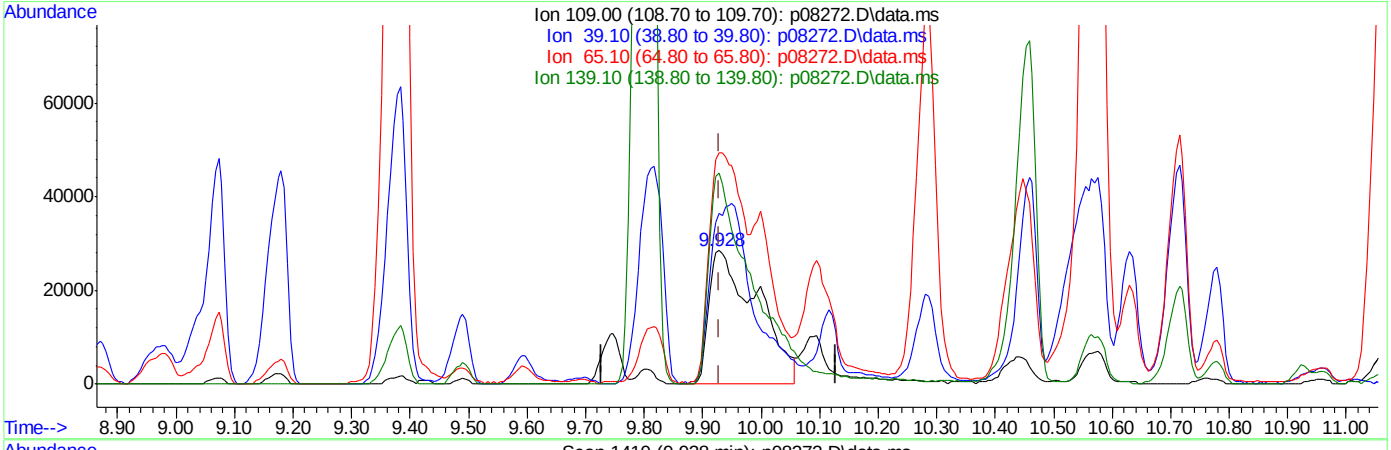
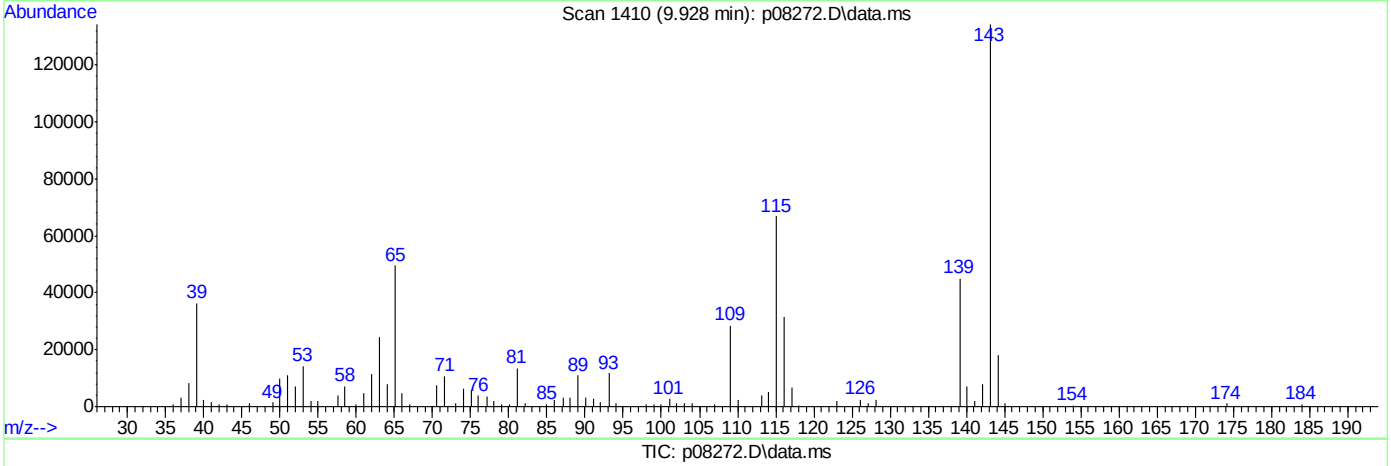




(78) 4-Nitrophenol (P)

9.928min (0.000) 50.04ppm m

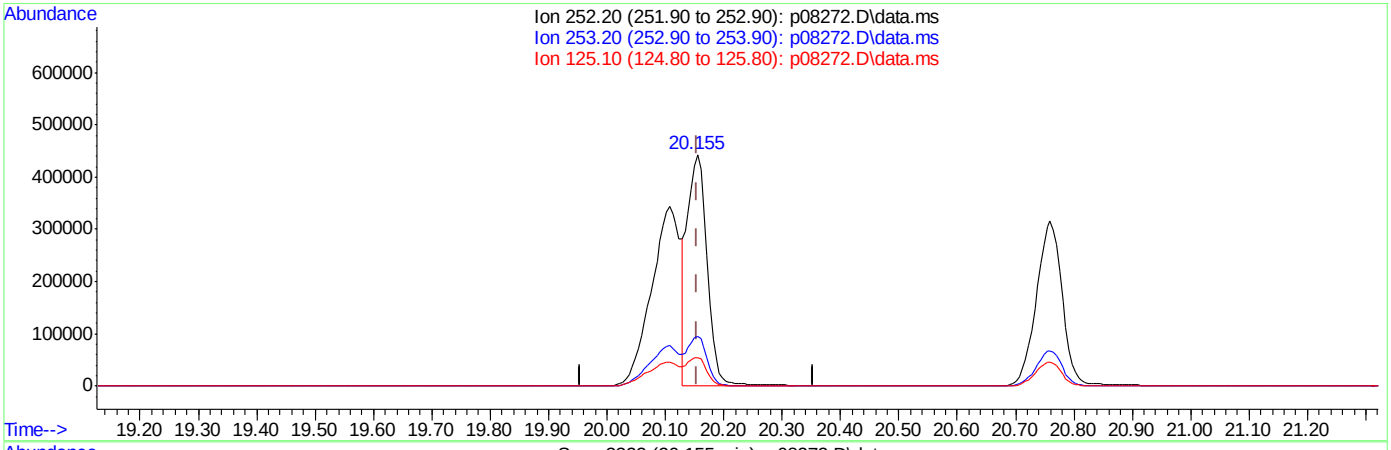
response 163912

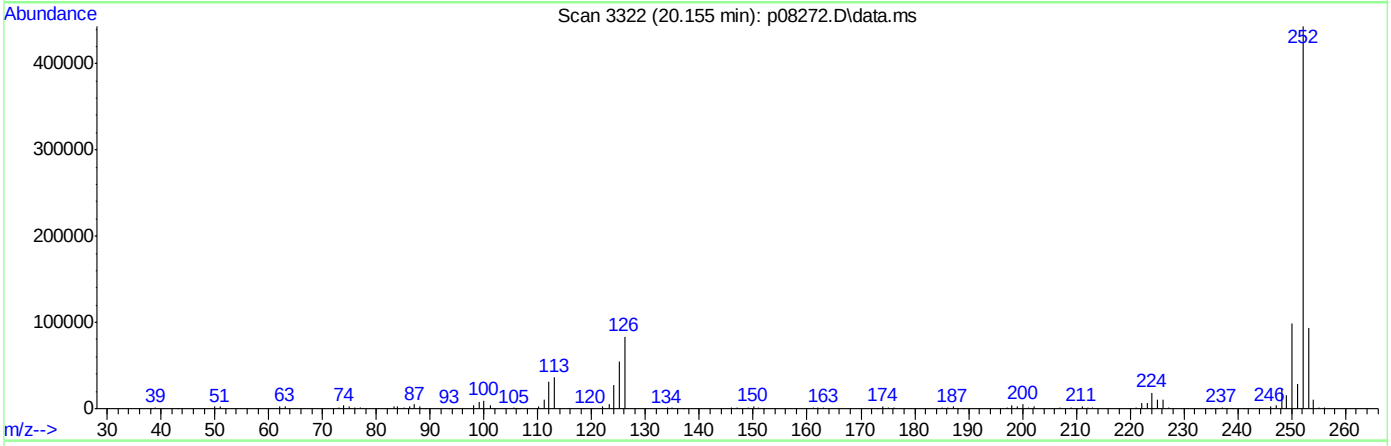
Ion	Exp%	Act%
109.00	100	100
39.10	127.60	121.42
65.10	173.50	117.15#
139.10	157.80	141.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08272.D
Acq On : 22 Jan 2010 11:40 am
Operator : garyj
Sample : icc393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 22 14:37:15 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:35:31 2010
Response via : Initial Calibration





TIC: p08272.D\data.ms

(137) Benzo[k]fluoranthene

20.155min (+0.000) 51.80ppm m

response 1057951

Ion	Exp%	Act%
252.20	100	100
253.20	21.60	19.39
125.10	14.10	12.71
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.393	152	377698	40.00	ppm	0.00
31) Naphthalene-d8	6.751	136	1434771	40.00	ppm	0.01
57) Acenaphthene-d10	9.436	164	900979	40.00	ppm	0.01
88) Phenanthrene-d10	12.351	188	1528987	40.00	ppm	0.02
118) Chrysene-d12	17.962	240	986009	40.00	ppm	0.02
134) Perylene-d12	20.888	264	577496	40.00	ppm	0.01
System Monitoring Compounds						
13) 2-Fluorophenol	4.350	112	3810101	273.32	ppm	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 273.32%#			
15) Phenol-d5	5.141	99	4280192	262.84	ppm	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 262.84%#			
32) Nitrobenzene-d5	5.970	82	2474685	137.32	ppm	0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 274.64%#			
61) 2-Fluorobiphenyl	8.286	172	4166976	130.22	ppm	0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 260.44%#			
93) 2,4,6-Tribromophenol	10.993	330	1195551	301.43	ppm	0.03
Spiked Amount 100.000	Range 32 - 128		Recovery = 301.43%#			
121) Terphenyl-d14	15.753	244	3819315	150.01	ppm	0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 300.02%#			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.841	79	1101430	73.26	ppm	97
3) 1,4-Dioxane	2.772	88	432486m	72.82	ppm	
4) N-nitrosodimethylamine	3.104	42	587996	76.99	ppm	99
5) Pyridine	3.087	79	1216913	77.46	ppm	100
6) 2-Picoline	3.815	93	1433912m	78.16	ppm	
7) N-Nitrosomethylethylamine	3.895	42	821553	78.09	ppm	100
8) Methyl methanesulfonate	4.168	80	736514	76.61	ppm	99
9) N-Nitrosodiethylamine	4.505	102	630283	76.07	ppm	100
10) Ethyl methanesulfonate	4.762	79	1036854	77.69	ppm	100
11) Benzaldehyde	5.008	106	196029	43.59	ppm	99
12) Aniline	5.109	93	1345361	69.28	ppm	97
14) bis(2-Chloroethyl)ether	5.157	93	1143229m	68.92	ppm	
16) Phenol	5.152	94	1271622	69.23	ppm #	94
17) 2-Chlorophenol	5.248	128	1030568	71.68	ppm	99
18) 1,3-Dichlorobenzene	5.345	146	1242097	70.53	ppm	100
19) 1,4-Dichlorobenzene	5.409	146	1171943	71.19	ppm	100
20) 1,2-Dichlorobenzene	5.559	146	1024339	66.53	ppm	99
21) Benzyl alcohol	5.575	108	715369	72.59	ppm	100
22) bis(2-chloroisopropyl)...	5.649	45	2114175	69.03	ppm	99
23) 2-Methylphenol	5.730	108	1176191m	77.25	ppm	
24) N-Nitrosopyrrolidine	5.853	100	461396	65.13	ppm	90
25) N-Nitrosomorpholine	5.863	56	709553m	67.50	ppm	
26) o-Toluidine	5.842	106	1428151	67.28	ppm	94
27) Acetophenone	5.810	105	1407641	72.32	ppm #	100
28) Hexachloroethane	5.885	117	470518	72.08	ppm	99
29) N-Nitroso-di-n-propyla...	5.831	70	717340	66.56	ppm	92
30) 3&4-Methylphenol	5.858	108	915091	64.87	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33)	Nitrobenzene	5.986	77	1169081	68.30	ppm		99
34)	N-Nitrosopiperidine	6.147	42	1002442	72.15	ppm		99
35)	A,A-Dimethylphenethyla...	7.794	58	4620787m	78.54	ppm		
36)	Isophorone	6.243	82	2513676	71.30	ppm		100
37)	2-Nitrophenol	6.307	139	606763	74.55	ppm		98
38)	2,4-Dimethylphenol	6.382	107	1067853	68.46	ppm		97
39)	bis(2-Chloroethoxy)met...	6.446	93	1332465m	66.86	ppm		
40)	O,O,O-Triethyl phospho...	6.414	121	366947m	60.43	ppm		
41)	Benzoic Acid	6.634	105	540364m	99.88	ppm		
42)	2,4-Dichlorophenol	6.623	162	868965	71.20	ppm		99
43)	1,2,4-Trichlorobenzene	6.676	180	960881	69.73	ppm		99
44)	Naphthalene	6.783	128	2693311	66.87	ppm		100
45)	4-Chloroaniline	6.848	127	1157215	69.77	ppm		99
46)	2,6-Dichlorophenol	6.869	162	735771	65.98	ppm		99
47)	Hexachloropropene	6.885	213	516086	77.84	ppm		100
48)	Hexachlorobutadiene	6.928	225	582851	68.75	ppm		100
49)	p-Phenylenediamine	7.361	108	373674	85.53	ppm		98
50)	Caprolactam	7.425	113	428641	75.14	ppm		100
51)	N-Nitrosodi-n-butylamine	7.297	84	861140	67.17	ppm		97
52)	4-Chloro-3-methylphenol	7.570	107	860671	67.33	ppm		100
53)	Isosafrole	7.575	162	719760	65.70	ppm		100
54)	2-Methylnaphthalene	7.714	142	1853705	67.75	ppm		99
55)	1-Methylnaphthalene	7.864	142	1829629	68.38	ppm		99
56)	1,2,4,5-Tetrachloroben...	7.976	216	871252	69.30	ppm		100
58)	Hexachlorocyclopentadiene	7.955	237	316409	114.67	ppm		99
59)	2,4,6-Trichlorophenol	8.190	196	672986	76.29	ppm		100
60)	2,4,5-Trichlorophenol	8.302	196	592954	74.17	ppm		99
62)	Safrole	8.404	162	833873	70.08	ppm		98
63)	1,1'-Biphenyl	8.463	154	2159185	66.28	ppm		100
64)	2-Chloronaphthalene	8.495	162	2302429m	69.34	ppm		
65)	1-Chloronaphthalene	8.527	162	1379292m	62.96	ppm		
66)	2-Nitroaniline	8.671	65	742294	74.45	ppm		98
67)	1,4-Naphthoquinone	8.773	158	614307	64.25	ppm		99
68)	Acenaphthylene	9.190	152	2915322	68.33	ppm		100
69)	Dimethylphthalate	8.982	163	2598236m	72.51	ppm		
70)	m-Dinitrobenzene	9.067	168	399765	74.18	ppm		97
71)	2,6-Dinitrotoluene	9.105	165	565094	70.60	ppm		93
72)	Acenaphthene	9.511	153	1886413	68.61	ppm		100
73)	3-Nitroaniline	9.415	138	574039	76.23	ppm		99
74)	2,4-Dinitrophenol	9.629	184	294001	102.82	ppm		98
75)	Dibenzofuran	9.821	168	2454281	70.15	ppm		100
76)	Pentachlorobenzene	9.763	250	824130	72.04	ppm		100
77)	2,4-Dinitrotoluene	9.859	165	732679	75.09	ppm	#	76
78)	4-Nitrophenol	9.960	109	241737m	73.25	ppm		
79)	1-Naphthylamine	9.982	143	1513175	84.22	ppm		99
80)	2-Naphthylamine	10.148	143	1332364	92.56	ppm		98
81)	2,3,4,6-Tetrachlorophenol	10.025	232	460845	88.66	ppm		100
82)	Fluorene	10.474	166	1841593	66.51	ppm		100
83)	4-Chlorophenyl-phenyle...	10.479	204	919397	65.79	ppm		96
84)	Diethylphthalate	10.313	149	2423363	70.47	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	5-Nitro-o-toluidine	10.576	152	684784	76.00	ppm		99
86)	Thionazin	10.453	97	452482	64.66	ppm		99
87)	4-Nitroaniline	10.634	138	557990	77.18	ppm		99
89)	4,6-Dinitro-2-methylph...	10.677	198	426955	87.63	ppm		92
90)	n-Nitrosodiphenylamine	10.747	169	2005254	68.95	ppm		98
91)	1,2-Diphenylhydrazine	10.800	77	2787282	74.41	ppm		95
92)	Diphenylamine	10.747	169	2005254	68.95	ppm		98
94)	Tetraethyl dithiopyrop...	11.084	97	379537	66.63	ppm		98
95)	sym-Trinitrobenzene	11.421	213	241669	75.91	ppm	#	32
96)	Diallate	11.319	43	1132986	63.41	ppm		97
97)	Phorate	11.346	75	1368750	57.27	ppm		99
98)	4-Bromophenyl-phenylether	11.453	248	614714	67.73	ppm		99
99)	Phenacetin	11.490	108	1043857	71.65	ppm		97
100)	Hexachlorobenzene	11.597	284	630684	70.22	ppm		99
101)	Dimethoate	11.715	87	473588	47.51	ppm		99
102)	Atrazine	11.865	200	238263	39.57	ppm		100
103)	4-aminobiphenyl	12.004	169	1604906	70.02	ppm	#	97
104)	Pentachlorophenol	12.052	266	250147	94.71	ppm		99
105)	Pentachloronitrobenzene	12.020	237	285927m	70.84	ppm		
106)	Pronamide	12.196	173	1083173	68.24	ppm		100
107)	Phenanthrene	12.416	178	2727824	67.03	ppm		100
108)	Anthracene	12.517	178	3048190	69.60	ppm		99
109)	Disulfoton	12.399	88	1269166	61.18	ppm		98
110)	Carbazole	12.870	167	2789244	70.59	ppm		99
111)	Methyl parathion	13.159	109	485202	56.08	ppm		99
112)	Di-n-butylphthalate	13.651	149	3820561	65.07	ppm		100
113)	4-Nitroquinoline 1-Oxide	14.036	190	102190	97.04	ppm		99
114)	Parathion	14.009	97	476547	66.51	ppm		98
115)	Methapyrilene	14.234	58	388611	70.51	ppm		100
116)	Isodrin	14.550	193	374086	66.26	ppm		100
117)	Fluoranthene	14.892	202	3056585	67.73	ppm		100
119)	Benzidine	15.202	184	589274m	80.62	ppm		
120)	Pyrene	15.363	202	3178970	76.46	ppm		99
122)	Aramite	15.897	185	207800	72.20	ppm		100
123)	p-(Dimethylamine)azobe...	16.047	120	863508	77.59	ppm		99
124)	Chlorobenzilate	16.165	139	1039304	73.81	ppm		99
126)	3,3'-Dimethylbenzidine	16.753	212	839924m	72.67	ppm		
127)	Famphur	16.641	218	17326m	8.15	ppm		
128)	Butylbenzylphthalate	16.817	149	1482693	73.03	ppm		100
129)	2-Acetylaminofluorene	17.342	181	742942	72.44	ppm		100
130)	3,3'-Dichlorobenzidine	17.909	252	558501	69.23	ppm		100
131)	Benzo[a]anthracene	17.935	228	2244025	74.09	ppm		100
132)	Chrysene	18.021	228	2046917	71.66	ppm		100
133)	bis(2-Ethylhexyl)phtha...	18.074	149	1909470	70.78	ppm		100
135)	Di-n-octylphthalate	19.379	149	2797675	76.69	ppm		100
136)	Benzo[b]fluoranthene	20.128	252	1570945	73.47	ppm		99
137)	Benzo[k]fluoranthene	20.171	252	1375155m	73.19	ppm		
138)	7,12-Dimethylbenz(a)an...	20.085	256	725751	81.22	ppm		100
140)	Benzo[a]pyrene	20.775	252	1328137	74.35	ppm		100
141)	3-Methylcholanthrene	21.556	268	577545	74.58	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.551	276	1097658	77.26 ppm	99
143) Dibenz[a,h]anthracene	23.583	278	917527	76.89 ppm	98
144) Benzo[g,h,i]perylene	24.316	276	903810	78.90 ppm	99

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

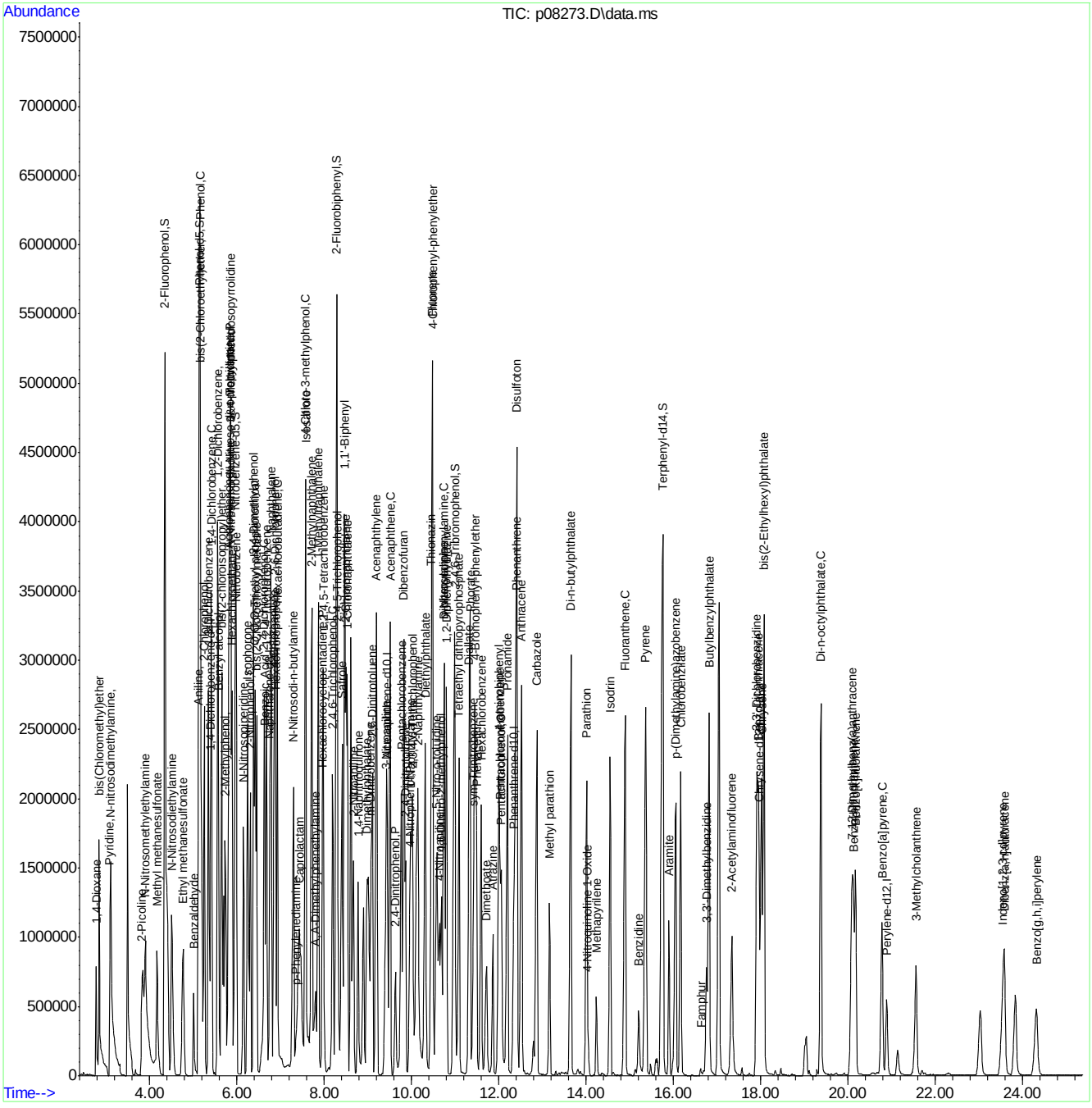
8.6.12

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration

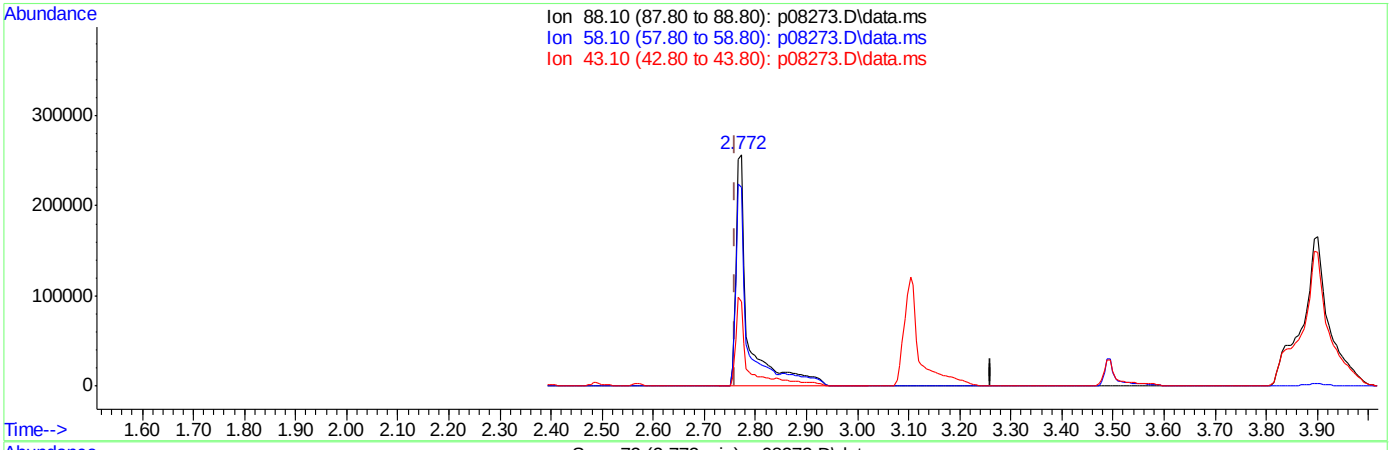


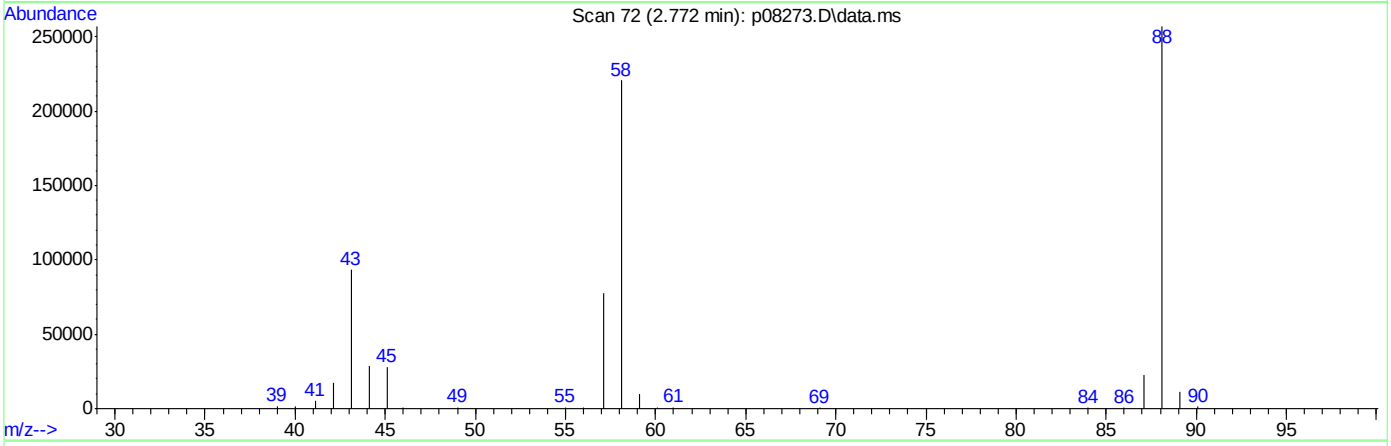
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(3) 1,4-Dioxane

2.772min (+0.011) 72.82ppm m

response 432486

Ion	Exp%	Act%
88.10	100	100
58.10	73.00	74.67
43.10	29.90	38.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
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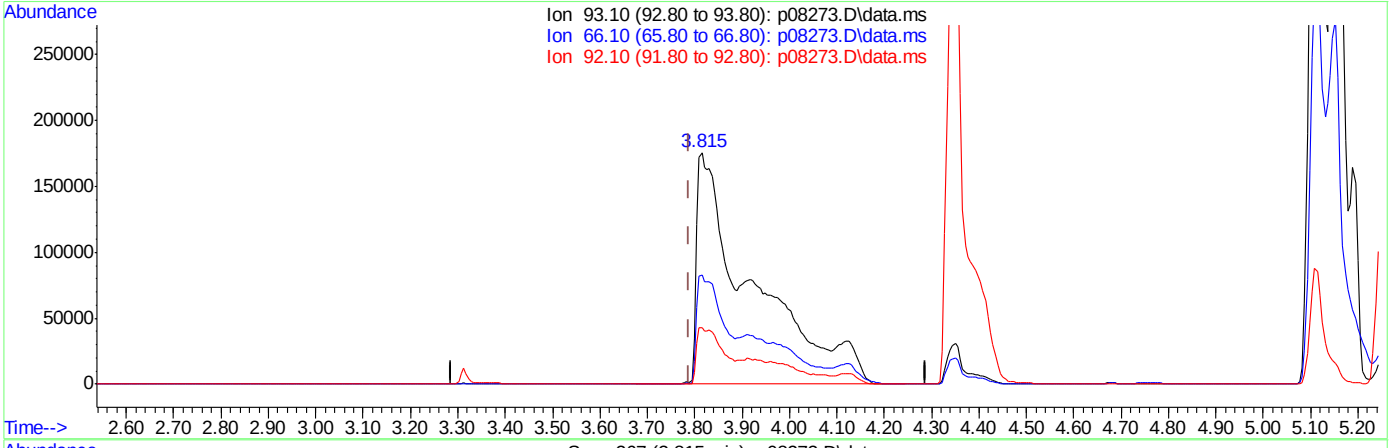
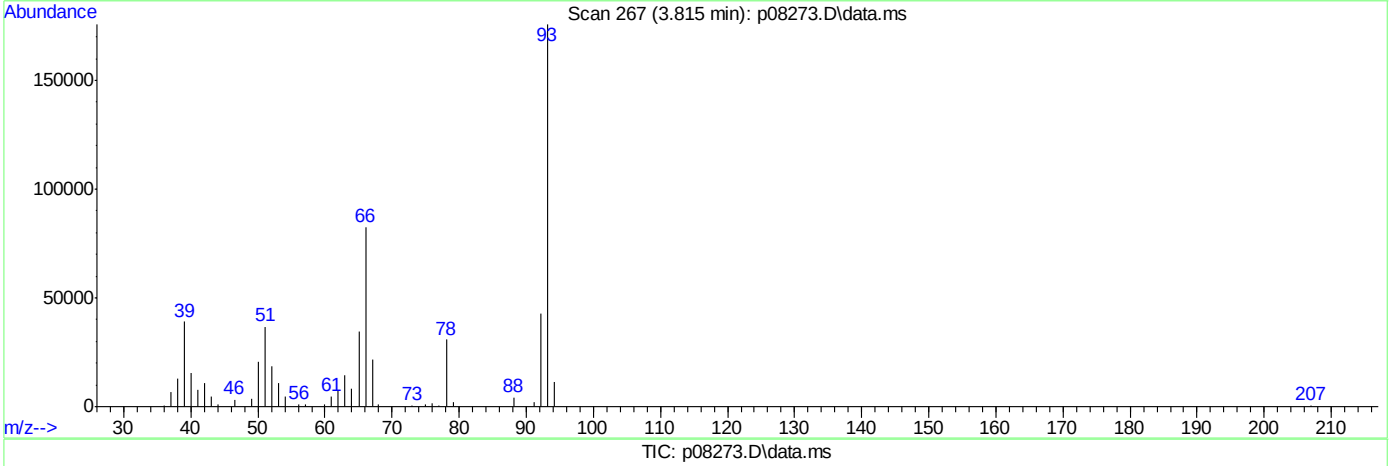




TIC: p08273.D\data.ms

(6) 2-Picoline

3.815min (+0.027) 78.16ppm m

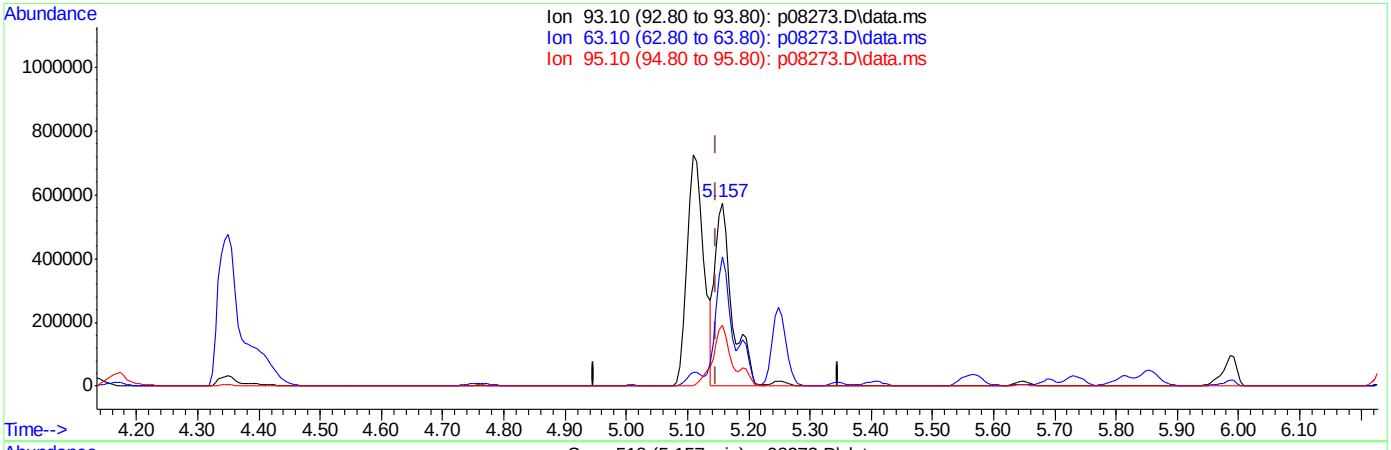
response 1433912

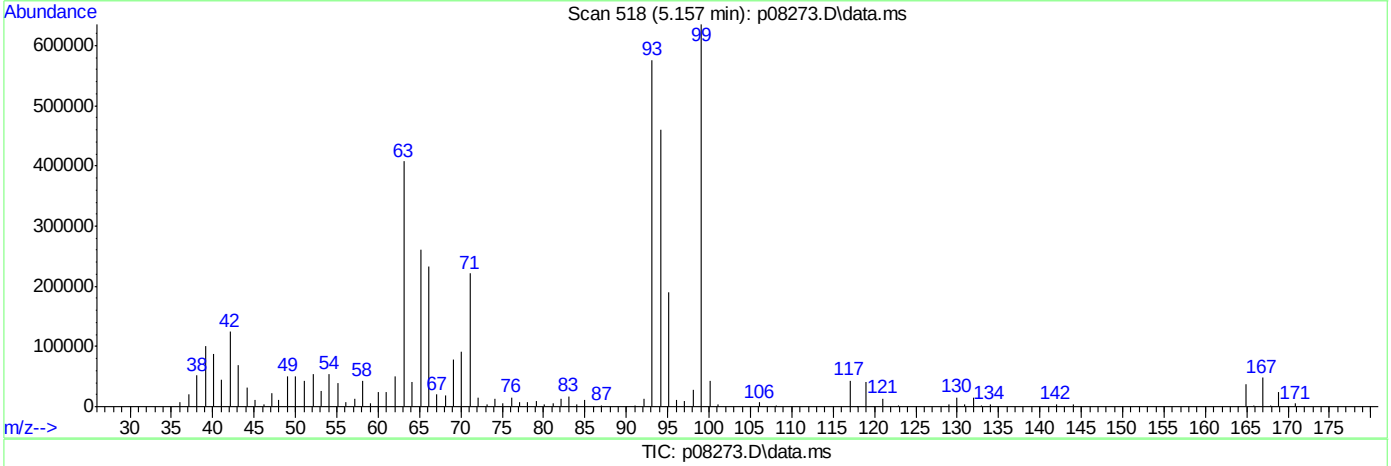
Ion	Exp%	Act%
93.10	100	100
66.10	30.20	21.92#
92.10	16.30	11.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
```





TIC: p08273.D\data.ms

(14) bis(2-Chloroethyl)ether ( )

5.157min (+0.010) 68.92ppm m

response 1143229

Ion	Exp%	Act%
93.10	100	100
63.10	81.00	50.10#
95.10	39.10	33.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
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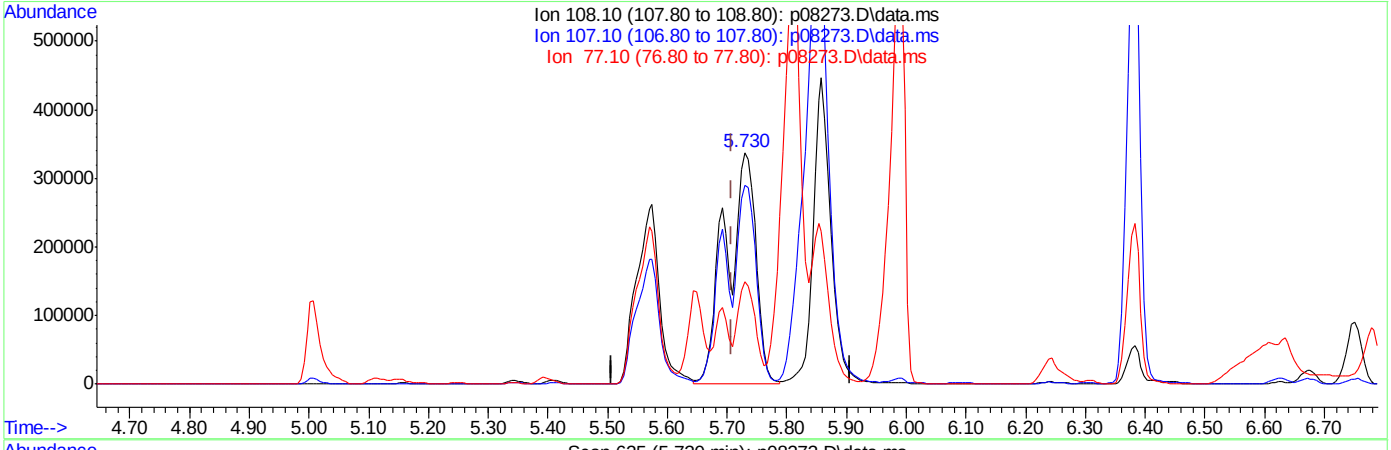

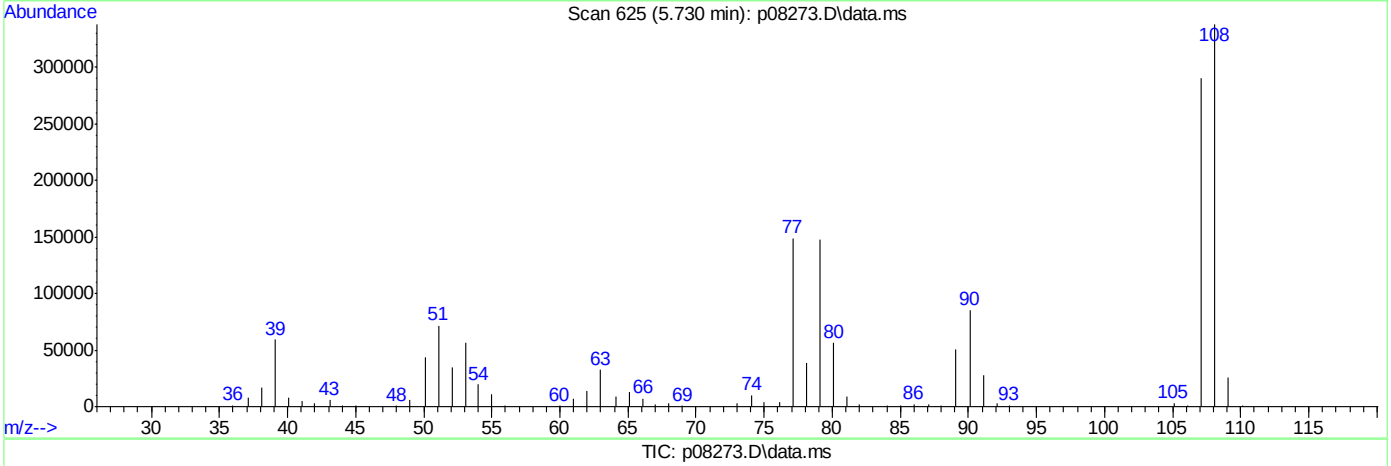

(23) 2-Methylphenol ( )

5.730min (+0.022) 77.25ppm m

response 1176191

Ion	Exp%	Act%
108.10	100	100
107.10	86.50	51.71#
77.10	41.00	22.26
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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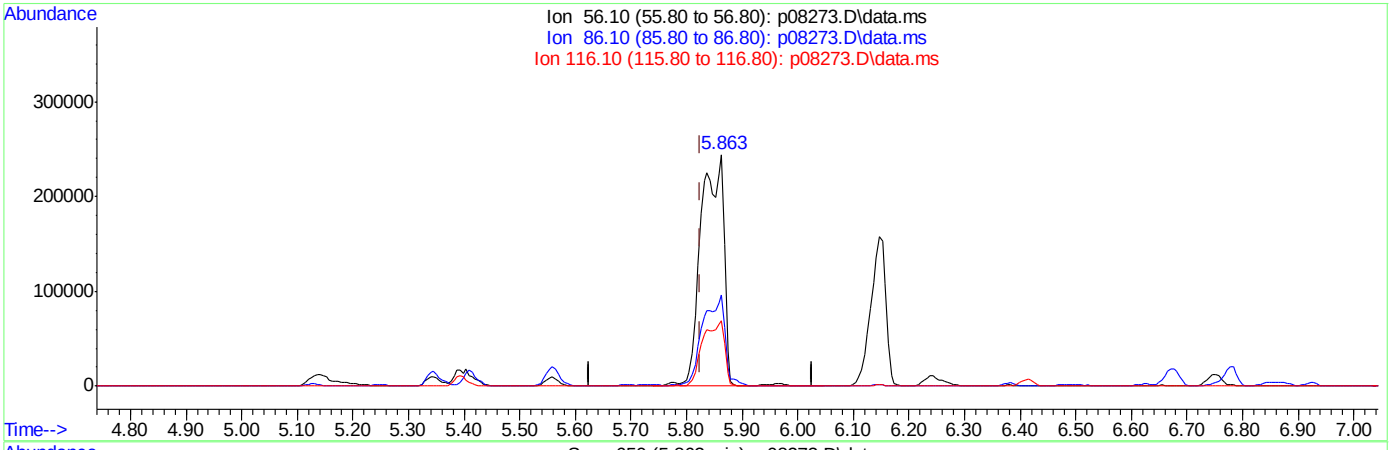
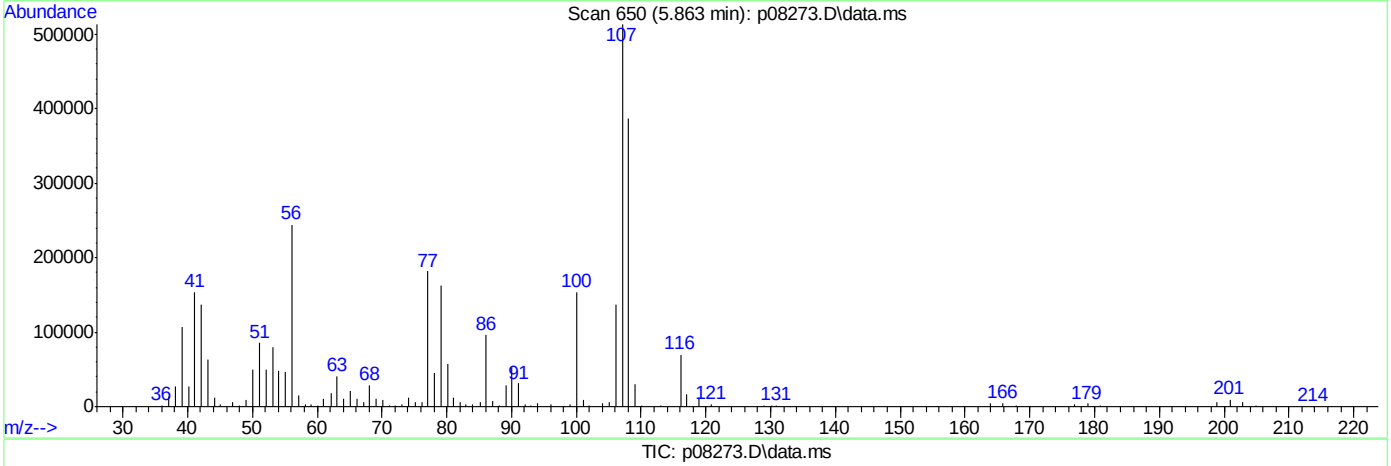




TIC: p08273.D\data.ms

(25) N-Nitrosomorpholine

5.863min (+0.037) 67.50ppm m

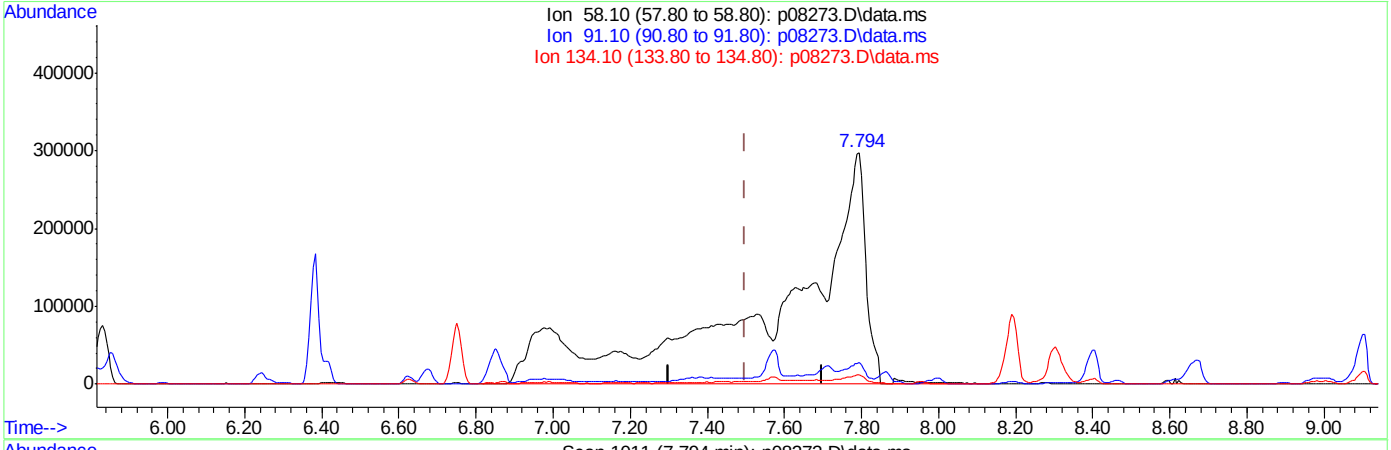
response 709553

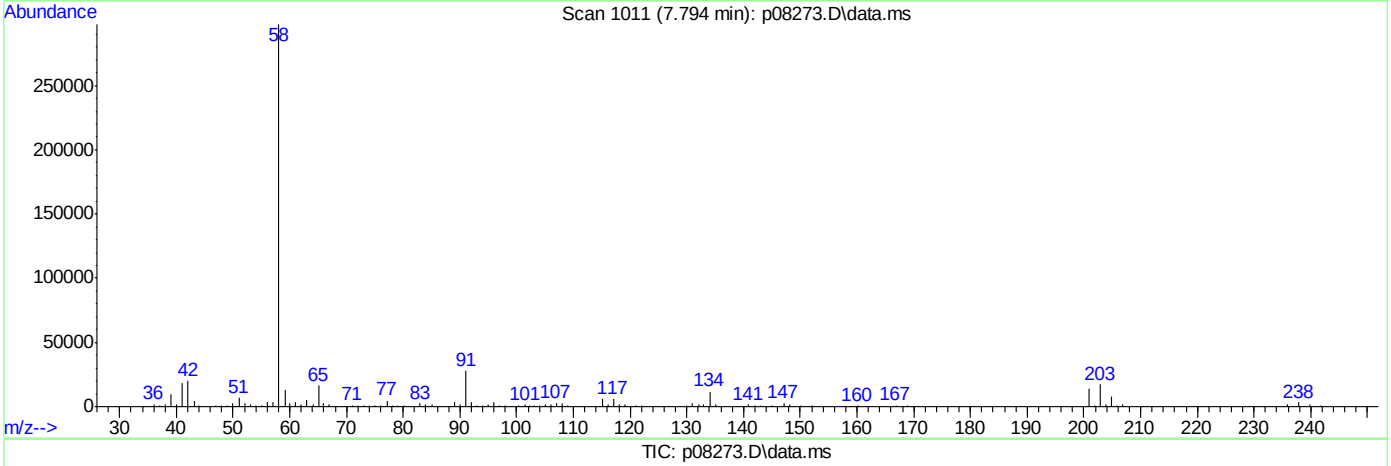
Ion	Exp%	Act%
56.10	100	100
86.10	36.00	0.00#
116.10	25.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(35) A,A-Dimethylphenethylamine

7.794min (+0.294) 78.54ppm m

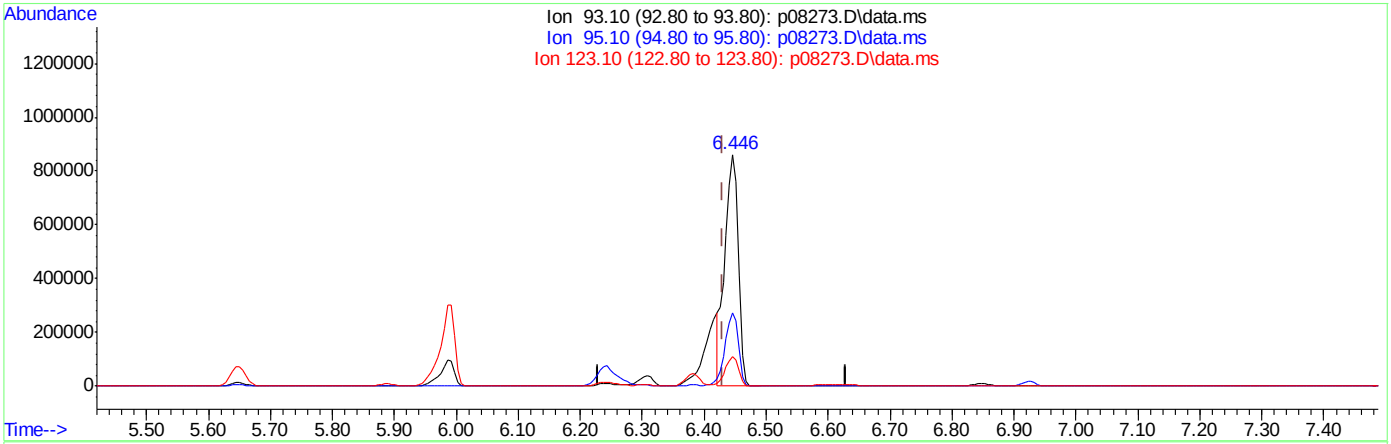
response 4620787

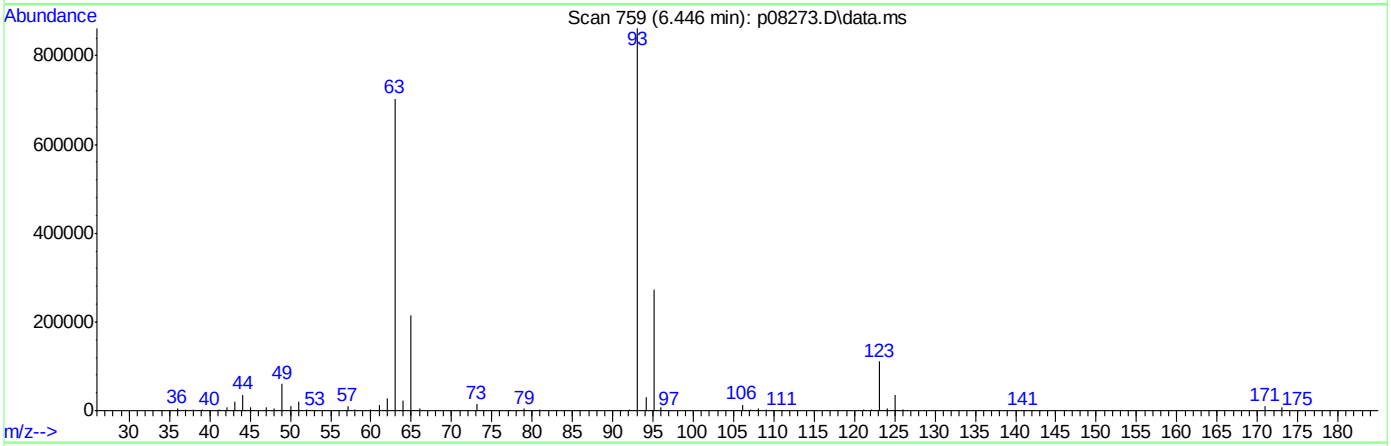
Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(39) bis(2-Chloroethoxy)methane

6.446min (+0.016) 66.86ppm m

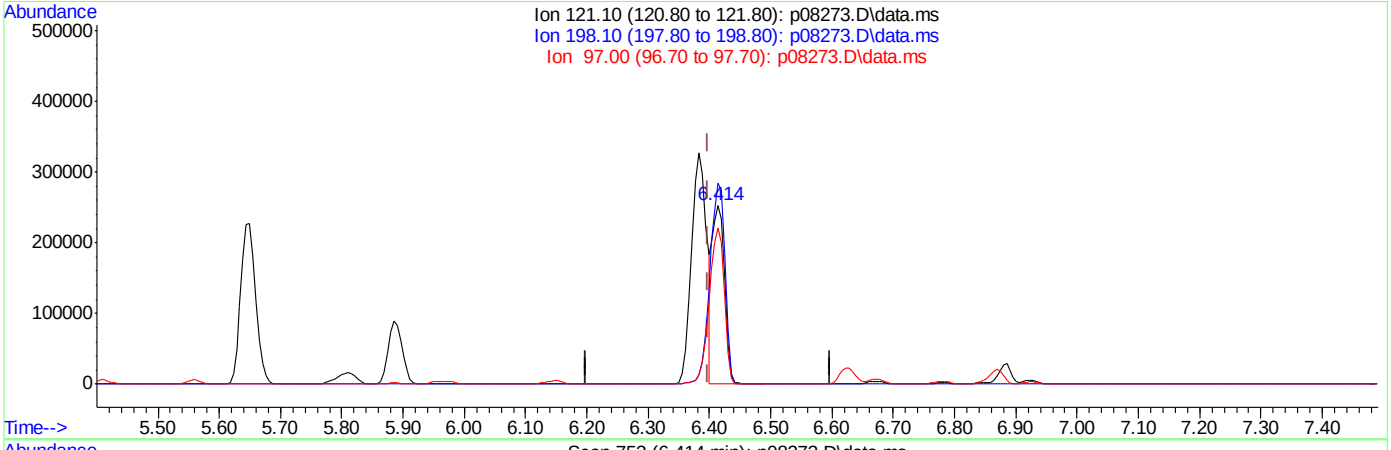
response 1332465

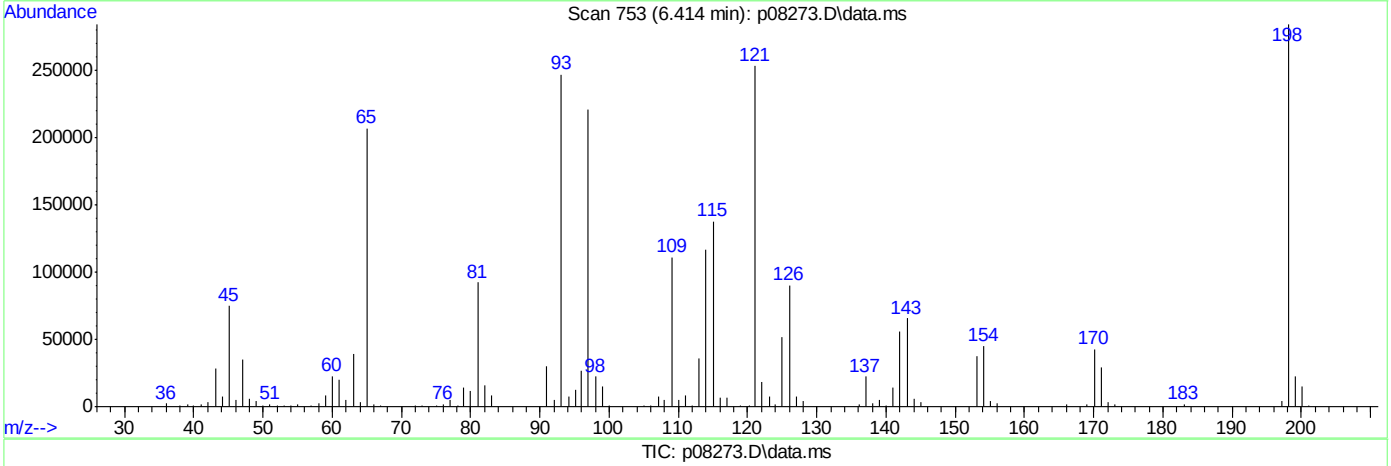
Ion	Exp%	Act%
93.10	100	100
95.10	32.80	31.80
123.10	13.50	12.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(40) O,O,O-Triethyl phosphorothioat

6.414min (+0.016) 60.43ppm m

response 366947

Ion	Exp%	Act%
121.10	100	100
198.10	121.10	135.29
97.00	94.10	104.98
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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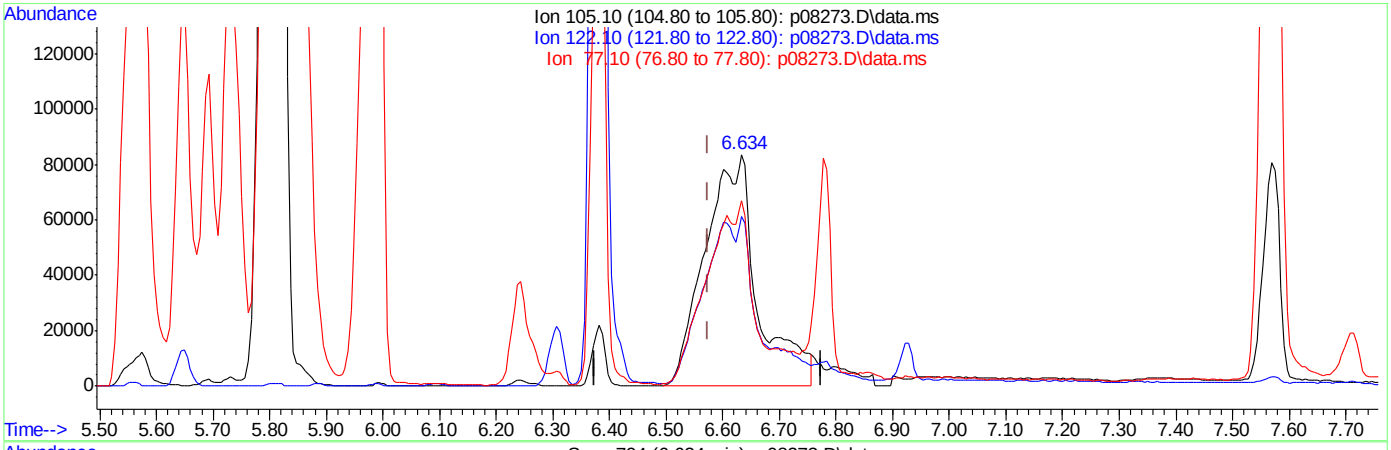
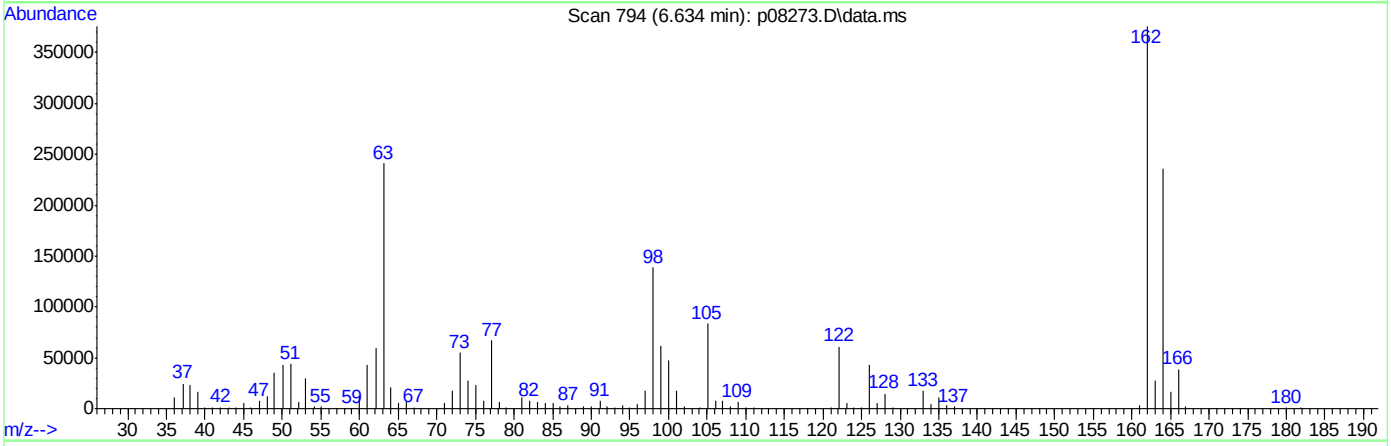




(41) Benzoic Acid

6.634min (+0.059) 99.88ppm m

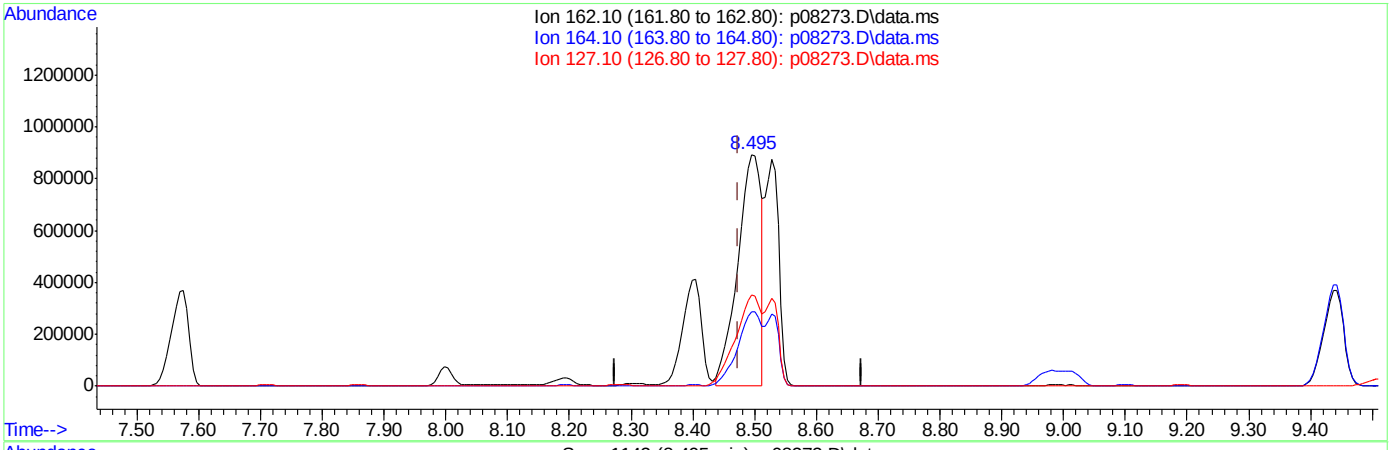
response 540364

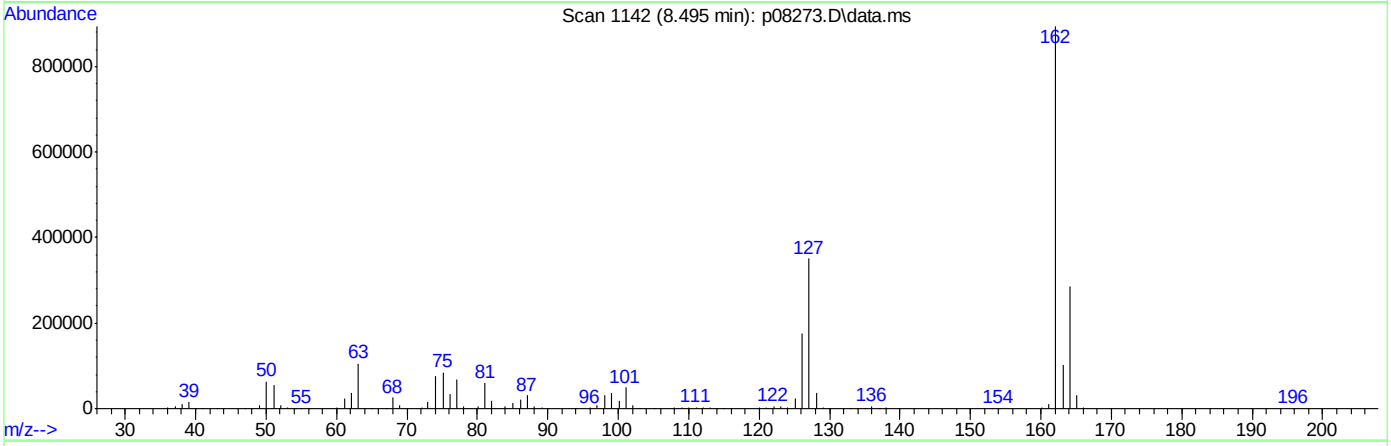
Ion	Exp%	Act%
105.10	100	100
122.10	80.10	43.23#
77.10	82.40	44.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(64) 2-Chloronaphthalene

8.495min (+0.021) 69.34ppm m

response 2302429

Ion	Exp%	Act%
162.10	100	100
164.10	35.10	34.88
127.10	46.40	42.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
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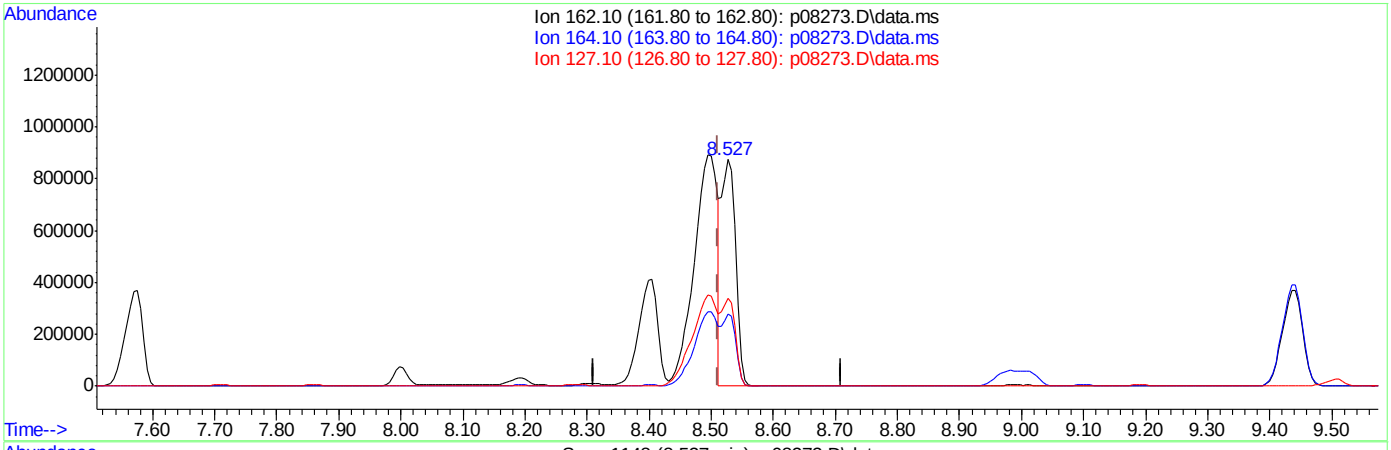
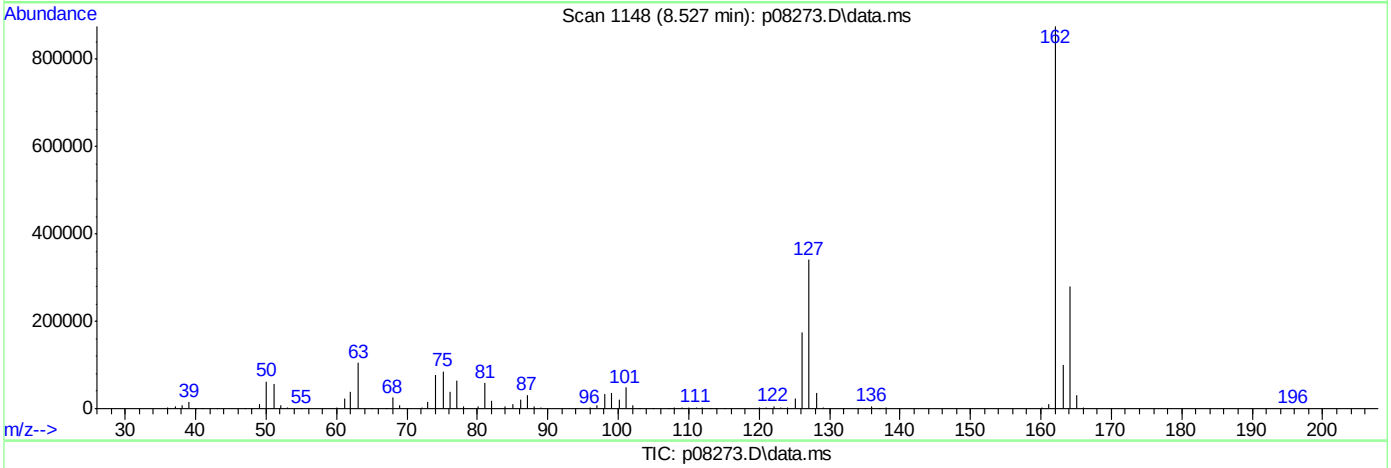




TIC: p08273.D\data.ms

(65) 1-Chloronaphthalene

8.527min (+0.016) 62.96ppm m

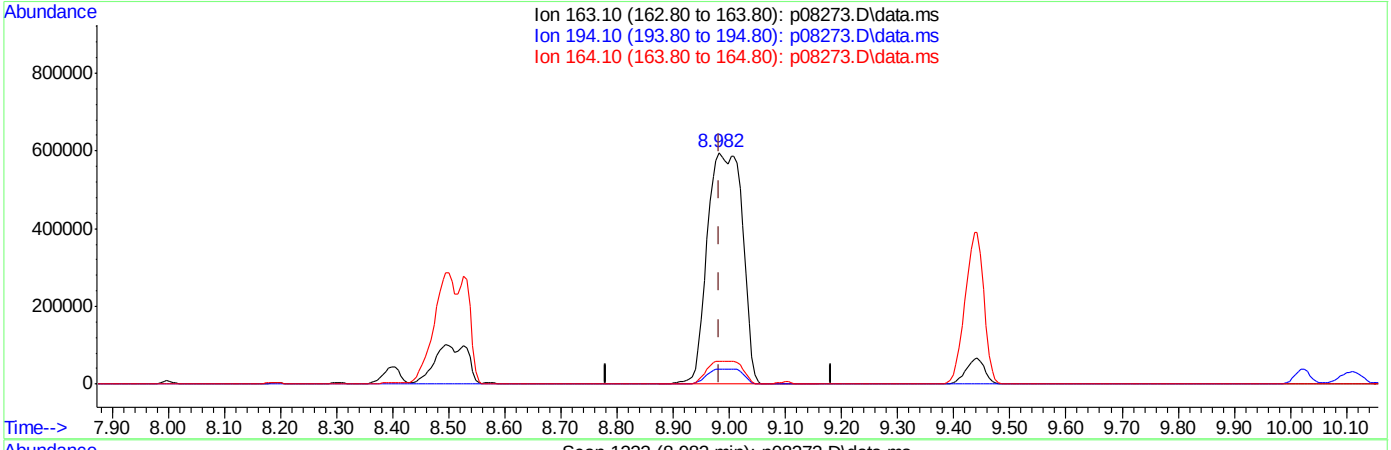
response 1379292

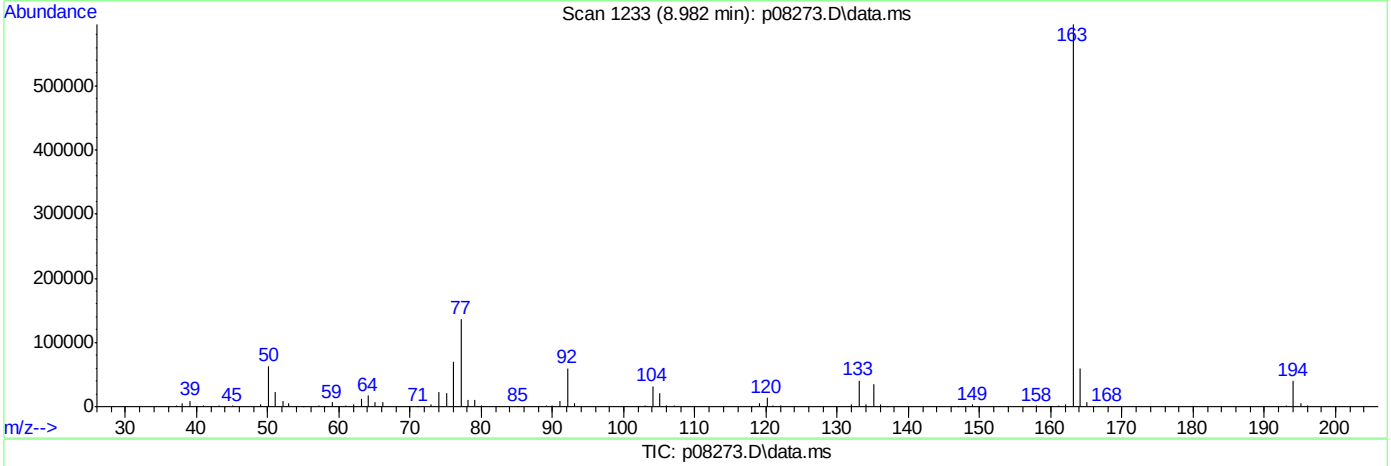
Ion	Exp%	Act%
162.10	100	100
164.10	27.70	58.23#
127.10	32.70	71.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(69) Dimethylphthalate

8.982min (-0.000) 72.51ppm m

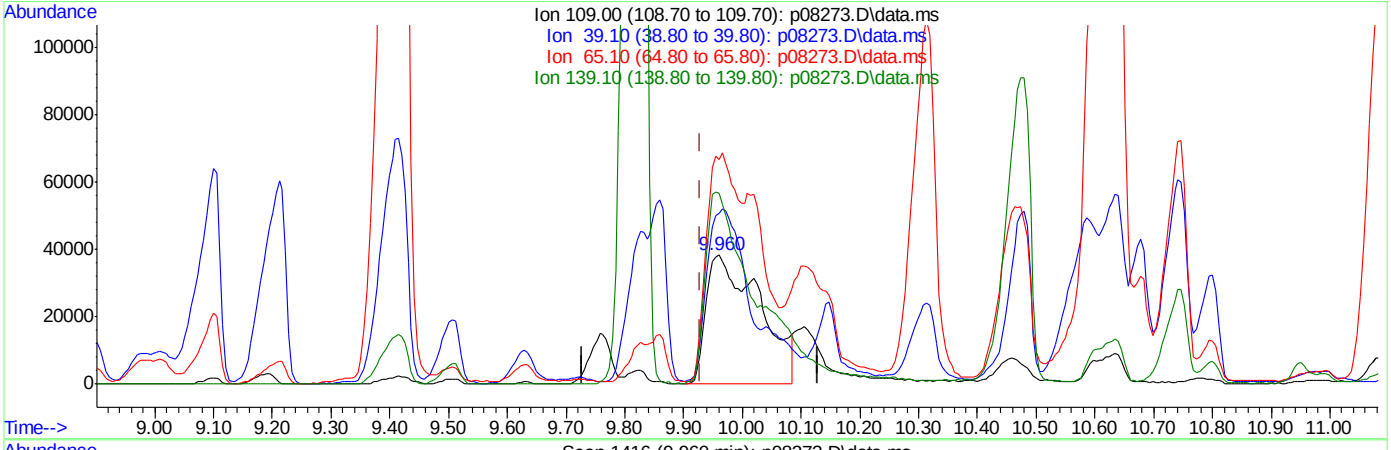
response 2598236

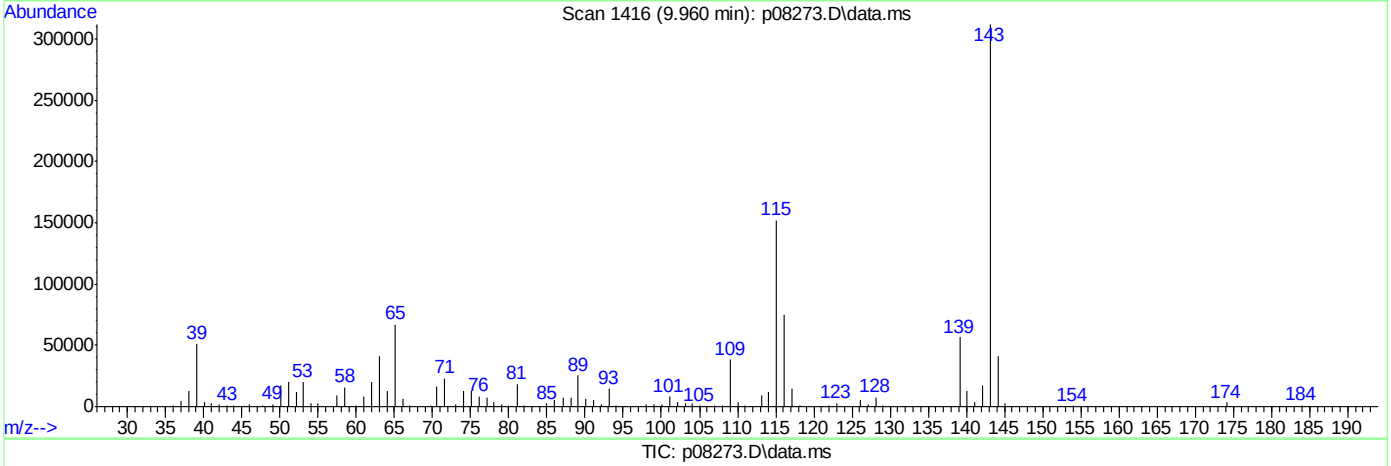
Ion	Exp%	Act%
163.10	100	100
194.10	6.60	3.80
164.10	10.10	10.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(78) 4-Nitrophenol (P)

9.960min (+0.032) 73.25ppm m

response 241737

Ion	Exp%	Act%
109.00	100	100
39.10	121.40	93.59
65.10	117.20	108.70
139.10	142.00	136.95

8.6.12.13

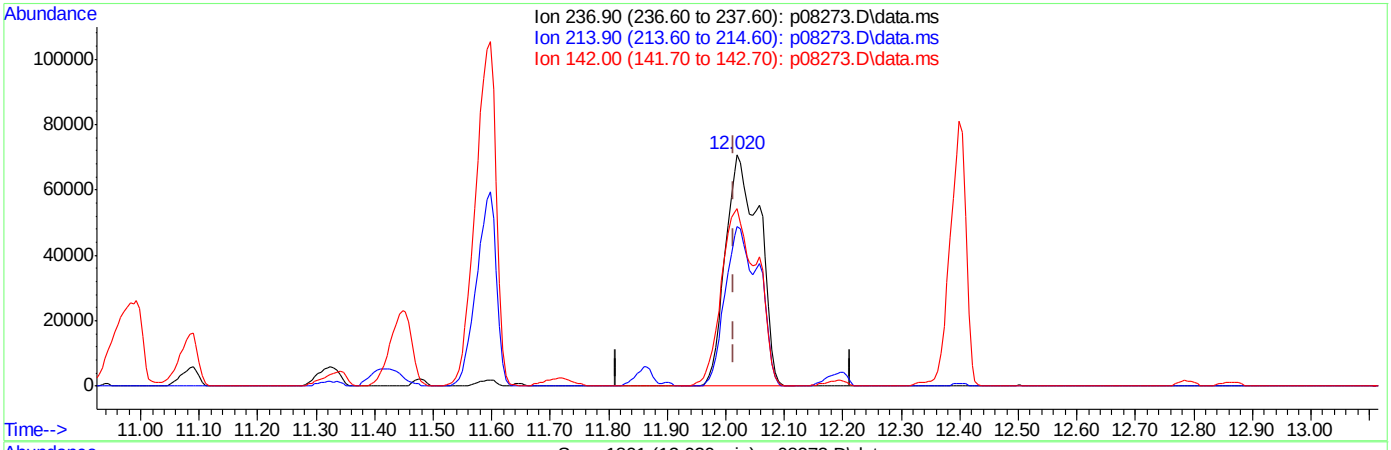
8

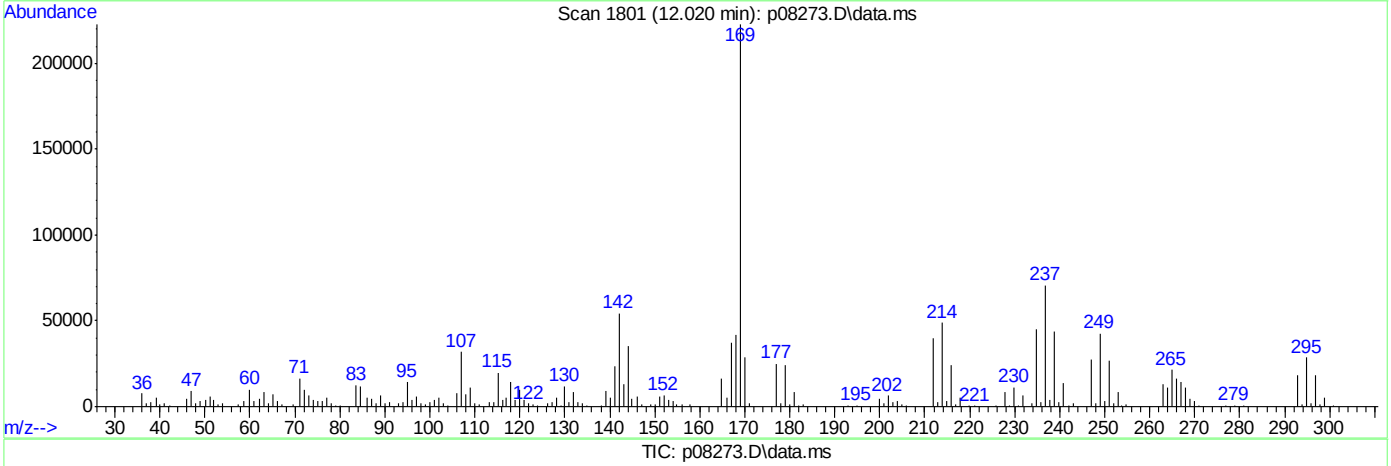
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On : 22 Jan 2010 12:12 pm
Operator : garyj
Sample : ic393-75
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration





TIC: p08273.D\data.ms

(105) Pentachloronitrobenzene

12.020min (+0.006) 70.84ppm m

response 285927

Ion	Exp%	Act%
236.90	100	100
213.90	69.80	50.57#
142.00	82.80	62.43#
0.00	0.00	0.00

8.6.12.14

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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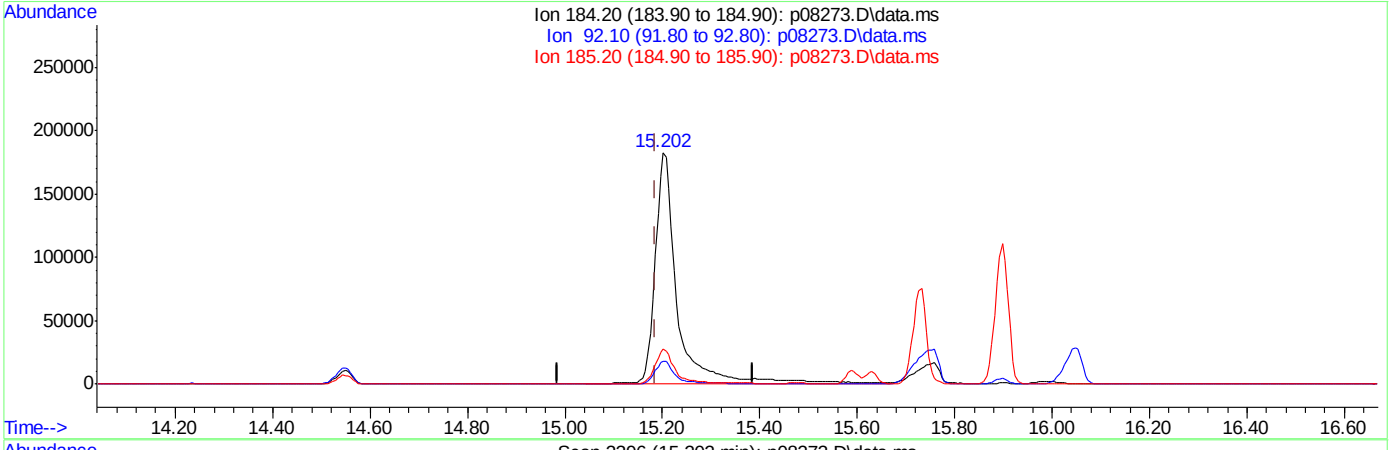

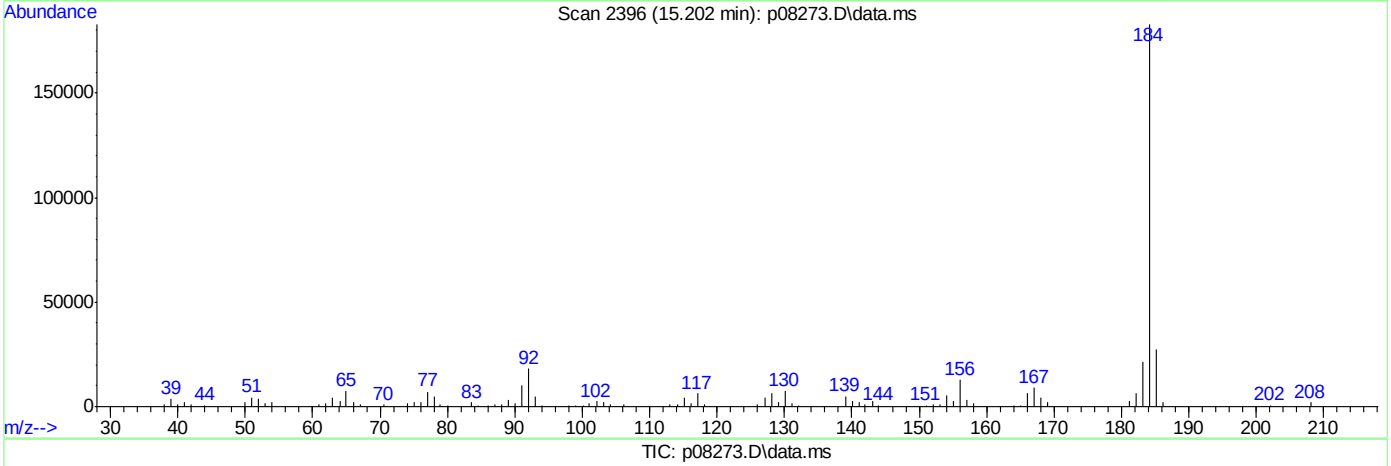

TIC: p08273.D\data.ms

(119) Benzidine

15.202min (+0.016) 80.62ppm m

response 589274

Ion	Exp%	Act%
184.20	100	100
92.10	9.90	9.18
185.20	14.40	13.78
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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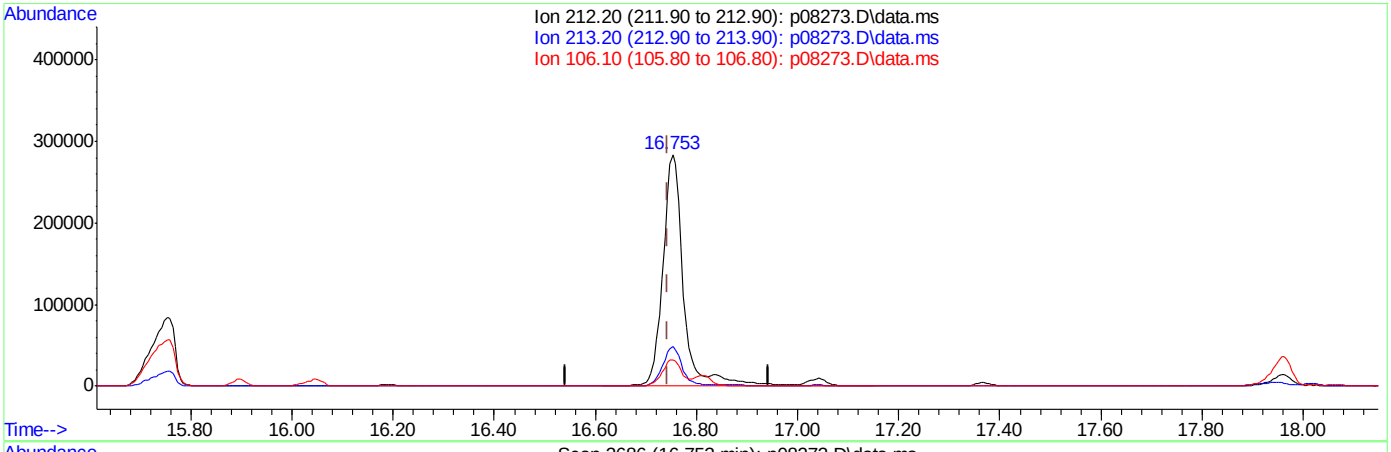

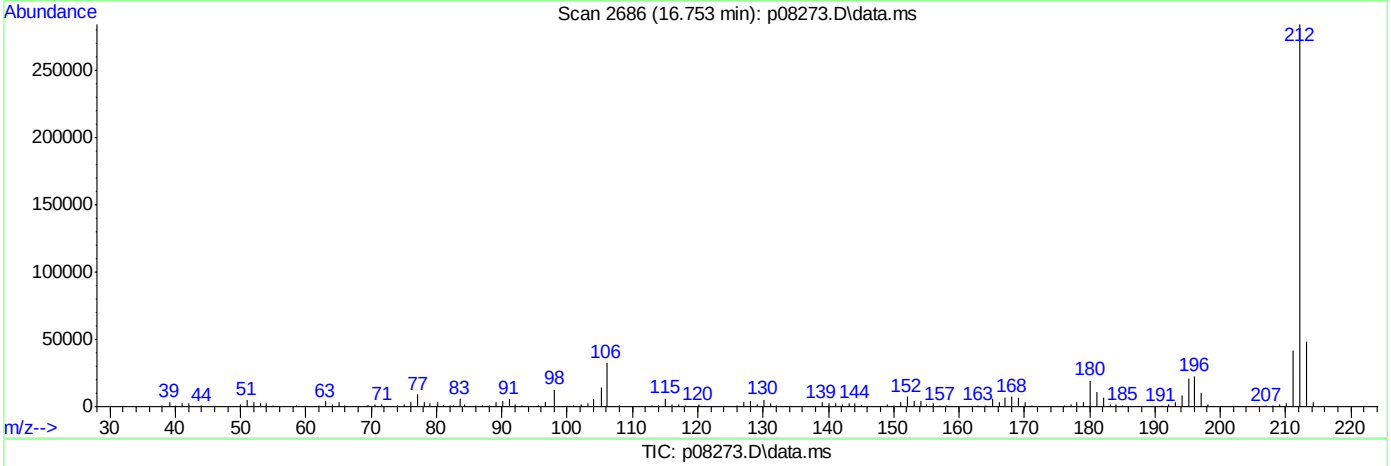

TIC: p08273.D\data.ms

(126) 3,3'-Dimethylbenzidine

16.753min (+0.010) 72.67ppm m

response 839924

Ion	Exp%	Act%
212.20	100	100
213.20	16.90	15.31
106.10	11.20	10.32
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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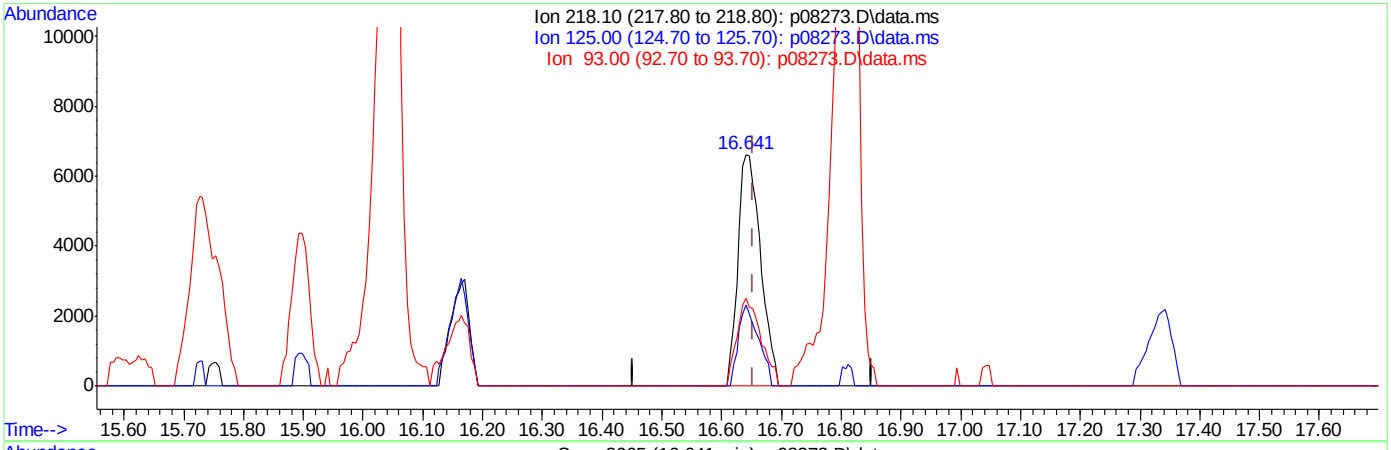

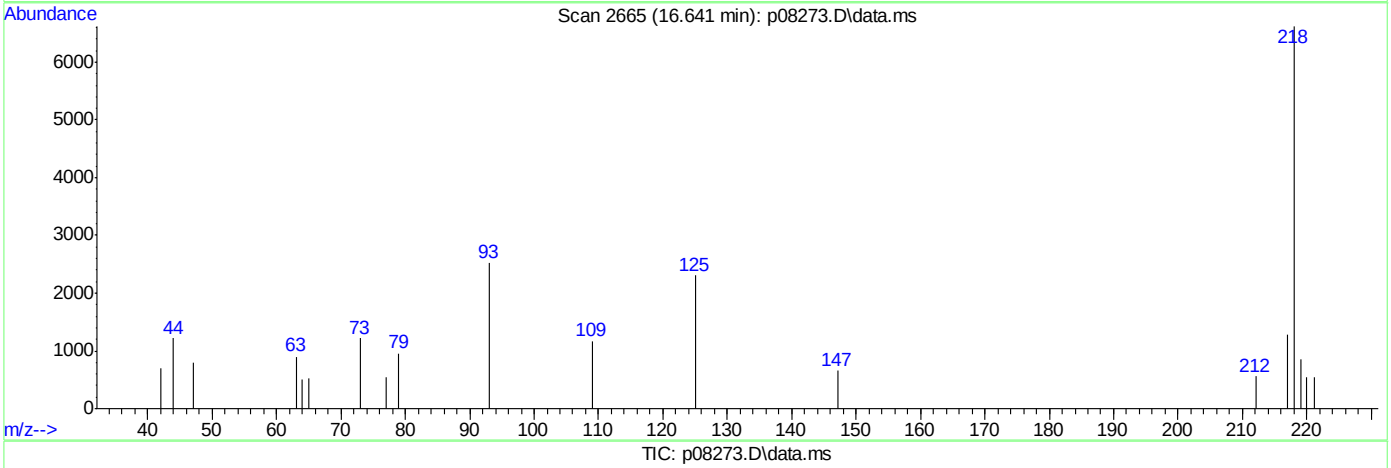

(127) Famphur

16.641min (-0.011) 8.15ppm m

response 17326

Ion	Exp%	Act%
218.10	100	100
125.00	0.00	0.00
93.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08273.D
Acq On    : 22 Jan 2010  12:12 pm
Operator  : garyj
Sample    : ic393-75
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jan 22 14:39:40 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:37:26 2010
Response via : Initial Calibration
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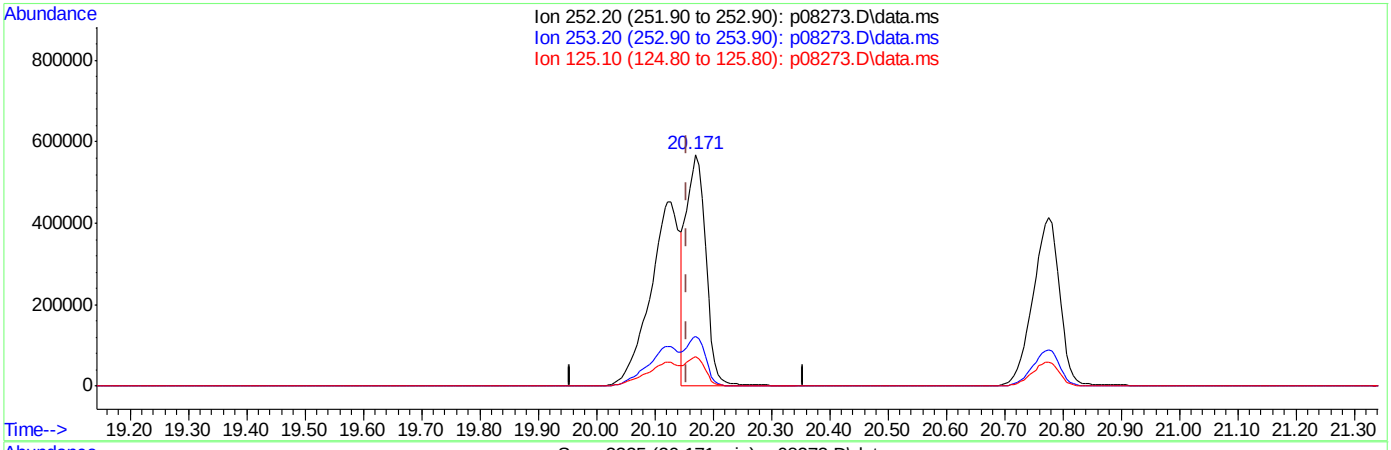
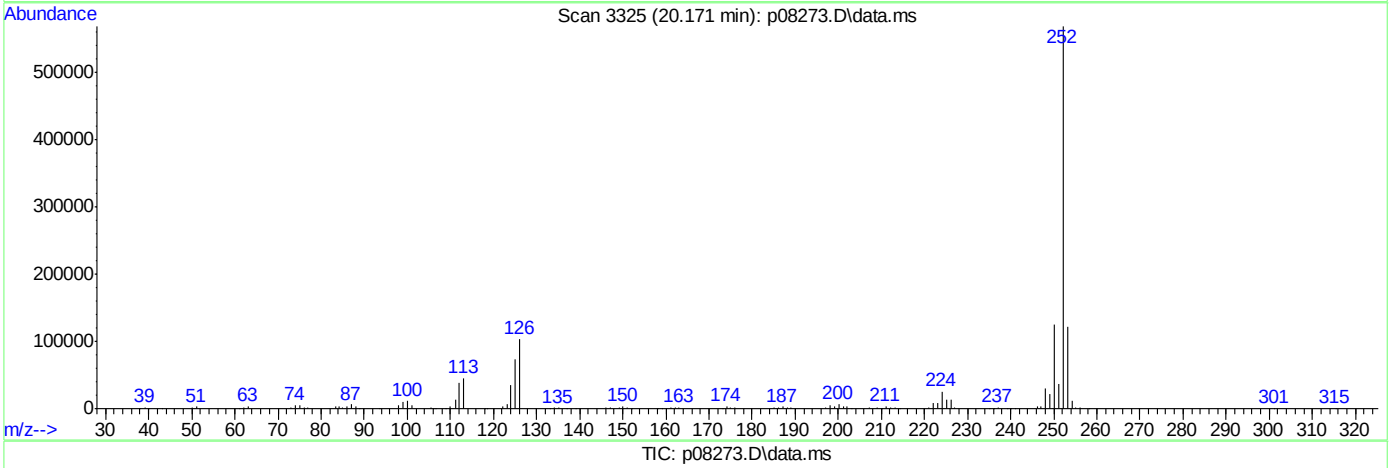




TIC: p08273.D\data.ms

(137) Benzo[k]fluoranthene

20.171min (+0.016) 73.19ppm m

response 1375155

Ion	Exp%	Act%
252.20	100	100
253.20	19.40	19.34
125.10	12.70	11.35
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.393	152	300632	40.00	ppm	0.00
31) Naphthalene-d8	6.751	136	1166676	40.00	ppm	0.01
57) Acenaphthene-d10	9.442	164	739355	40.00	ppm	0.02
88) Phenanthrene-d10	12.357	188	1323612	40.00	ppm	0.02
118) Chrysene-d12	17.967	240	766821	40.00	ppm	0.02
134) Perylene-d12	20.893	264	449019	40.00	ppm	0.02
System Monitoring Compounds						
13) 2-Fluorophenol	4.350	112	4176060	376.37	ppm	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery	= 376.37%#		
15) Phenol-d5	5.141	99	4685580	361.50	ppm	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery	= 361.50%#		
32) Nitrobenzene-d5	5.976	82	2701975	184.38	ppm	0.03
Spiked Amount 50.000	Range 29 - 115		Recovery	= 368.76%#		
61) 2-Fluorobiphenyl	8.292	172	4637491	176.60	ppm	0.02
Spiked Amount 50.000	Range 34 - 113		Recovery	= 353.20%#		
93) 2,4,6-Tribromophenol	11.003	330	1402039	408.34	ppm	0.04
Spiked Amount 100.000	Range 32 - 128		Recovery	= 408.34%#		
121) Terphenyl-d14	15.769	244	4530675	228.81	ppm	0.03
Spiked Amount 50.000	Range 12 - 145		Recovery	= 457.62%#		
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.825	79	1207942	100.94	ppm	97
3) 1,4-Dioxane	2.750	88	485228m	102.64	ppm	
4) N-nitrosodimethylamine	3.093	42	643369	105.84	ppm	100
5) Pyridine	3.071	79	1347711	107.77	ppm	99
6) 2-Picoline	3.809	93	1580834m	108.26	ppm	
7) N-Nitrosomethylethylamine	3.895	42	899467	107.42	ppm	99
8) Methyl methanesulfonate	4.168	80	793040	103.64	ppm	98
9) N-Nitrosodiethylamine	4.505	102	688486	104.39	ppm	100
10) Ethyl methanesulfonate	4.767	79	1129587	106.34	ppm	99
11) Benzaldehyde	5.002	106	169281	47.29	ppm	99
12) Aniline	5.109	93	1395612	90.29	ppm	96
14) bis(2-Chloroethyl)ether	5.157	93	1283141m	97.19	ppm	
16) Phenol	5.157	94	1366363	93.45	ppm #	95
17) 2-Chlorophenol	5.248	128	1126151	98.40	ppm	99
18) 1,3-Dichlorobenzene	5.345	146	1377452	98.27	ppm	99
19) 1,4-Dichlorobenzene	5.409	146	1278041	97.53	ppm	100
20) 1,2-Dichlorobenzene	5.558	146	1125096	91.80	ppm	99
21) Benzyl alcohol	5.580	108	777487	99.12	ppm	100
22) bis(2-chloroisopropyl)...	5.649	45	2272921	93.23	ppm	98
23) 2-Methylphenol	5.735	108	1287189m	106.20	ppm	
24) N-Nitrosopyrrolidine	5.863	100	505533	89.66	ppm #	27
25) N-Nitrosomorpholine	5.869	56	743470m	88.85	ppm	
26) o-Toluidine	5.847	106	1553453	91.95	ppm #	93
27) Acetophenone	5.815	105	1534032	99.02	ppm #	100
28) Hexachloroethane	5.885	117	494893	95.25	ppm	100
29) N-Nitroso-di-n-propyla...	5.837	70	804075	93.74	ppm	86
30) 3&4-Methylphenol	5.863	108	973149	86.67	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33)	Nitrobenzene	5.992	77	1264080	90.83	ppm		99
34)	N-Nitrosopiperidine	6.158	42	1101893	97.53	ppm		99
35)	A,A-Dimethylphenethyla...	7.923	58	5294198m	110.67	ppm		
36)	Isophorone	6.248	82	2790614	97.35	ppm		100
37)	2-Nitrophenol	6.313	139	664315	100.38	ppm		97
38)	2,4-Dimethylphenol	6.388	107	1151999	90.83	ppm		93
39)	bis(2-Chloroethoxy)met...	6.452	93	1428558m	88.90	ppm		
40)	O,O,O-Triethyl phospho...	6.420	121	382121m	77.37	ppm		
41)	Benzoic Acid	6.650	105	600085m	135.77	ppm		
42)	2,4-Dichlorophenol	6.628	162	948598	95.58	ppm		100
43)	1,2,4-Trichlorobenzene	6.676	180	1036516	92.51	ppm		100
44)	Naphthalene	6.783	128	2935481	89.64	ppm		99
45)	4-Chloroaniline	6.858	127	1246943	92.45	ppm		99
46)	2,6-Dichlorophenol	6.874	162	803511	88.61	ppm		99
47)	Hexachloropropene	6.885	213	530051	98.32	ppm		99
48)	Hexachlorobutadiene	6.928	225	637929	92.53	ppm		100
49)	p-Phenylenediamine	7.398	108	373958	105.27	ppm		98
50)	Caprolactam	7.447	113	518021m	111.68	ppm		
51)	N-Nitrosodi-n-butylamine	7.302	84	953257	91.45	ppm		98
52)	4-Chloro-3-methylphenol	7.580	107	967540	93.32	ppm		100
53)	Isosafrole	7.575	162	796111	89.37	ppm		99
54)	2-Methylnaphthalene	7.719	142	2056599	92.44	ppm		100
55)	1-Methylnaphthalene	7.869	142	1972139	90.65	ppm		98
56)	1,2,4,5-Tetrachloroben...	7.981	216	963287	94.22	ppm		100
58)	Hexachlorocyclopentadiene	7.955	237	331547	146.43	ppm		100
59)	2,4,6-Trichlorophenol	8.201	196	760919	105.11	ppm		100
60)	2,4,5-Trichlorophenol	8.308	196	667703	101.78	ppm		98
62)	Safrole	8.409	162	923412	94.57	ppm		97
63)	1,1'-Biphenyl	8.468	154	2362388	88.37	ppm		100
64)	2-Chloronaphthalene	8.506	162	2748683m	100.94	ppm		
65)	1-Chloronaphthalene	8.532	162	1318232m	73.33	ppm		
66)	2-Nitroaniline	8.682	65	845834	103.38	ppm		98
67)	1,4-Naphthoquinone	8.784	158	674664	85.99	ppm		98
68)	Acenaphthylene	9.201	152	3284885	93.82	ppm		100
69)	Dimethylphthalate	9.019	163	2972785m	101.10	ppm		
70)	m-Dinitrobenzene	9.089	168	448898	101.51	ppm		99
71)	2,6-Dinitrotoluene	9.115	165	629657	95.86	ppm		98
72)	Acenaphthene	9.516	153	2122502	94.07	ppm		100
73)	3-Nitroaniline	9.431	138	652244	105.55	ppm		99
74)	2,4-Dinitrophenol	9.645	184	347923	148.20	ppm		97
75)	Dibenzofuran	9.832	168	2764279	96.28	ppm		100
76)	Pentachlorobenzene	9.768	250	934838	99.58	ppm		100
77)	2,4-Dinitrotoluene	9.875	165	845089	105.54	ppm	#	80
78)	4-Nitrophenol	9.966	109	253769m	96.58	ppm		
79)	1-Naphthylamine	9.987	143	1682439	114.11	ppm		99
80)	2-Naphthylamine	10.158	143	1481565	125.42	ppm		98
81)	2,3,4,6-Tetrachlorophenol	10.030	232	521932	122.36	ppm		99
82)	Fluorene	10.479	166	2091984	92.07	ppm		100
83)	4-Chlorophenyl-phenyle...	10.485	204	1031476	89.95	ppm		94
84)	Diethylphthalate	10.329	149	2745888	97.31	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	5-Nitro-o-toluidine	10.592	152	784317	106.08	ppm		98
86)	Thionazin	10.469	97	491749	85.63	ppm		99
87)	4-Nitroaniline	10.661	138	647790	109.19	ppm		98
89)	4,6-Dinitro-2-methylph...	10.699	198	482149	114.31	ppm		91
90)	n-Nitrosodiphenylamine	10.757	169	2239249	88.94	ppm		97
91)	1,2-Diphenylhydrazine	10.811	77	3140818	96.86	ppm		95
92)	Diphenylamine	10.757	169	2239249	88.94	ppm		97
94)	Tetraethyl dithiopyrop...	11.100	97	433462	87.91	ppm		96
95)	sym-Trinitrobenzene	11.442	213	276619	100.37	ppm	#	32
96)	Diallate	11.330	43	1279302	82.71	ppm		95
97)	Phorate	11.356	75	1549187	74.88	ppm		98
98)	4-Bromophenyl-phenylether	11.458	248	707918	90.10	ppm		98
99)	Phenacetin	11.517	108	1259504	99.86	ppm		97
100)	Hexachlorobenzene	11.608	284	728939	93.76	ppm		98
101)	Dimethoate	11.731	87	469322	54.39	ppm		99
102)	Atrazine	11.875	200	215078	41.26	ppm		99
103)	4-aminobiphenyl	12.009	169	1696190	85.49	ppm		97
104)	Pentachlorophenol	12.057	266	297031	129.92	ppm		99
105)	Pentachloronitrobenzene	12.025	237	327916m	93.85	ppm		
106)	Pronamide	12.212	173	1257542	91.52	ppm		100
107)	Phenanthrene	12.426	178	3132143	88.91	ppm		100
108)	Anthracene	12.533	178	3512219	92.64	ppm		100
109)	Disulfoton	12.410	88	1428951	79.57	ppm		97
110)	Carbazole	12.881	167	3229329	94.40	ppm		99
111)	Methyl parathion	13.170	109	520583	69.50	ppm		99
112)	Di-n-butylphthalate	13.656	149	4425651	87.08	ppm		100
113)	4-Nitroquinoline 1-Oxide	14.047	190	119764	131.38	ppm		100
114)	Parathion	14.020	97	555439	89.55	ppm		98
115)	Methapyrilene	14.245	58	425376	89.16	ppm		100
116)	Isodrin	14.555	193	427188	87.41	ppm		99
117)	Fluoranthene	14.903	202	3570577	91.39	ppm		99
119)	Benzidine	15.213	184	549707m	95.64	ppm		
120)	Pyrene	15.373	202	3696863	114.33	ppm		99
122)	Aramite	15.903	185	231900	103.60	ppm		99
123)	p-(Dimethylamine)azobe...	16.058	120	987062	114.04	ppm		99
124)	Chlorobenzilate	16.176	139	1201139	109.69	ppm		98
126)	3,3'-Dimethylbenzidine	16.759	212	828629m	91.82	ppm		
127)	Famphur	16.641	218	10030m	6.07	ppm		
128)	Butylbenzylphthalate	16.823	149	1654093	104.76	ppm		100
129)	2-Acetylaminofluorene	17.352	181	776444	97.35	ppm		100
130)	3,3'-Dichlorobenzidine	17.914	252	578261	92.17	ppm		99
131)	Benzo[a]anthracene	17.941	228	2389968	101.47	ppm		100
132)	Chrysene	18.026	228	2182758	98.26	ppm		99
133)	bis(2-Ethylhexyl)phtha...	18.080	149	2075055	98.90	ppm		100
135)	Di-n-octylphthalate	19.385	149	2883606	101.67	ppm		100
136)	Benzo[b]fluoranthene	20.128	252	1725937	103.81	ppm		99
137)	Benzo[k]fluoranthene	20.182	252	1380325m	94.52	ppm		
138)	7,12-Dimethylbenz(a)an...	20.091	256	769227	110.71	ppm		99
140)	Benzo[a]pyrene	20.781	252	1418046	102.10	ppm		99
141)	3-Methylcholanthrene	21.567	268	610594	101.41	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.562	276	1166450	105.60	ppm	99
143) Dibenz[a,h]anthracene	23.594	278	976822	105.28	ppm	98
144) Benzo[g,h,i]perylene	24.332	276	951957	106.88	ppm	99

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

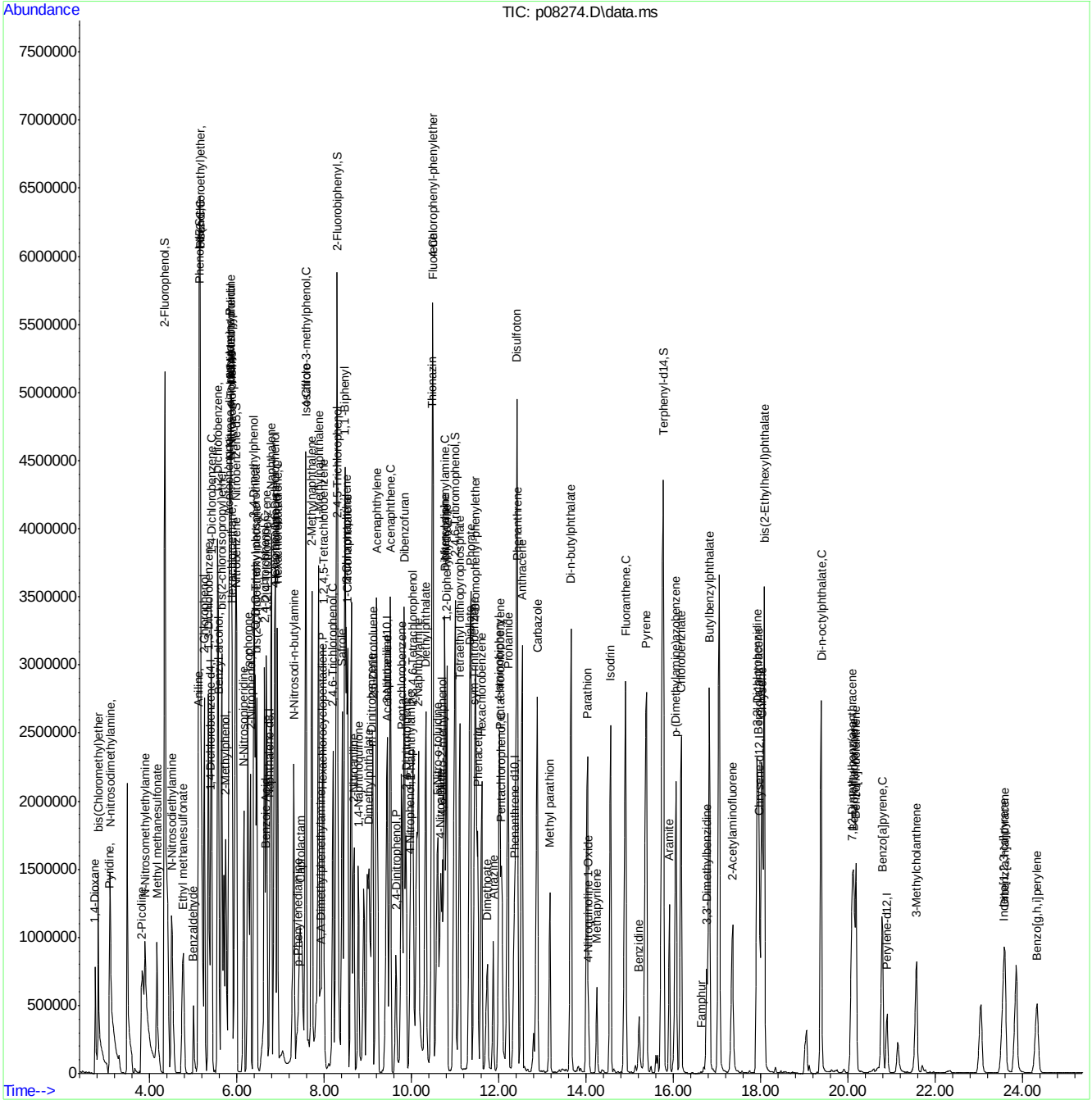
8.6.13

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration

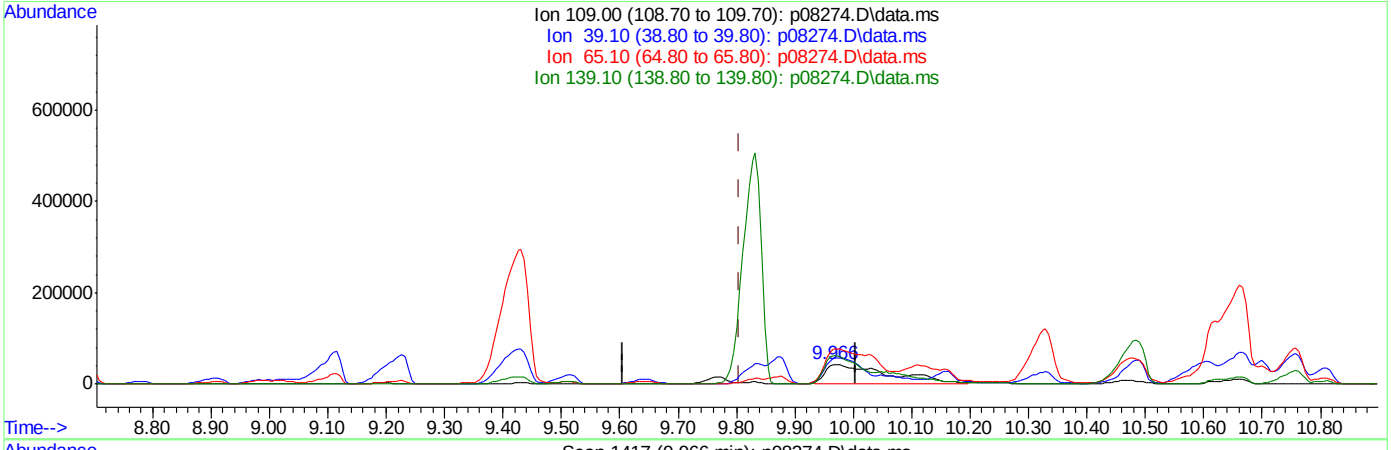


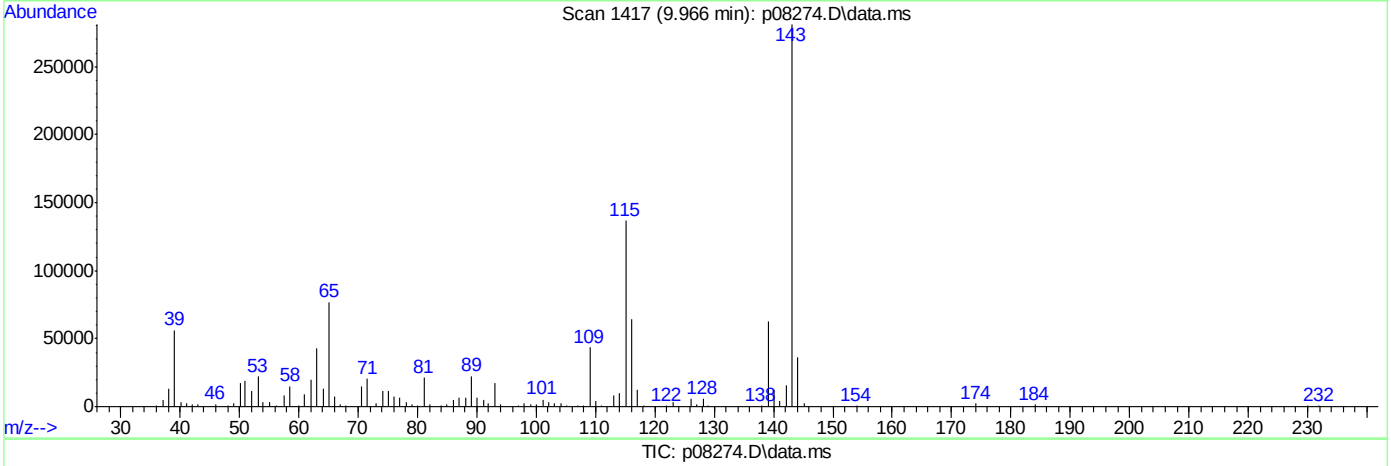
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 13:09:33 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 12:47:40 2010
Response via : Initial Calibration





(78) 4-Nitrophenol (P)

9.966min (+0.160) 289.62ppm m

response 338011

Ion	Exp%	Act%
109.00	100	100
39.10	0.00	0.00
65.10	0.00	0.00
139.10	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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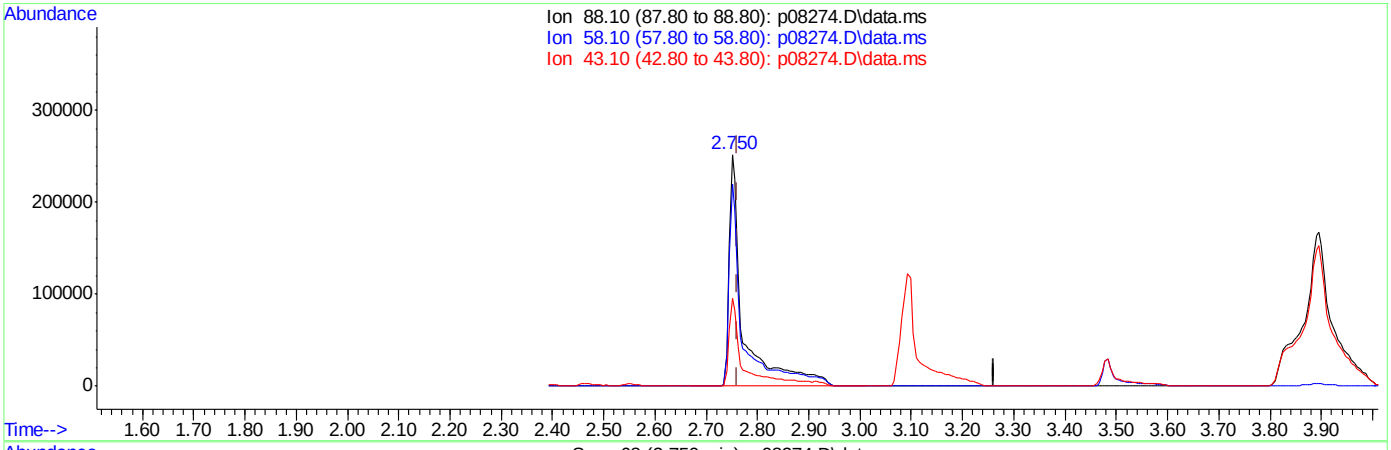
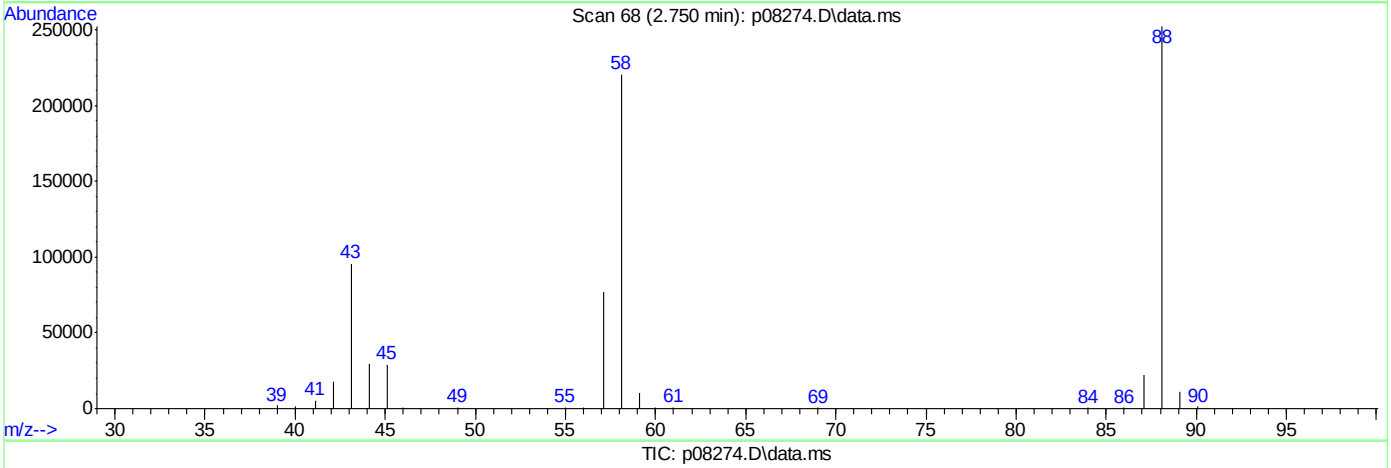




TIC: p08274.D\data.ms

(3) 1,4-Dioxane

2.750min (-0.011) 102.64ppm m

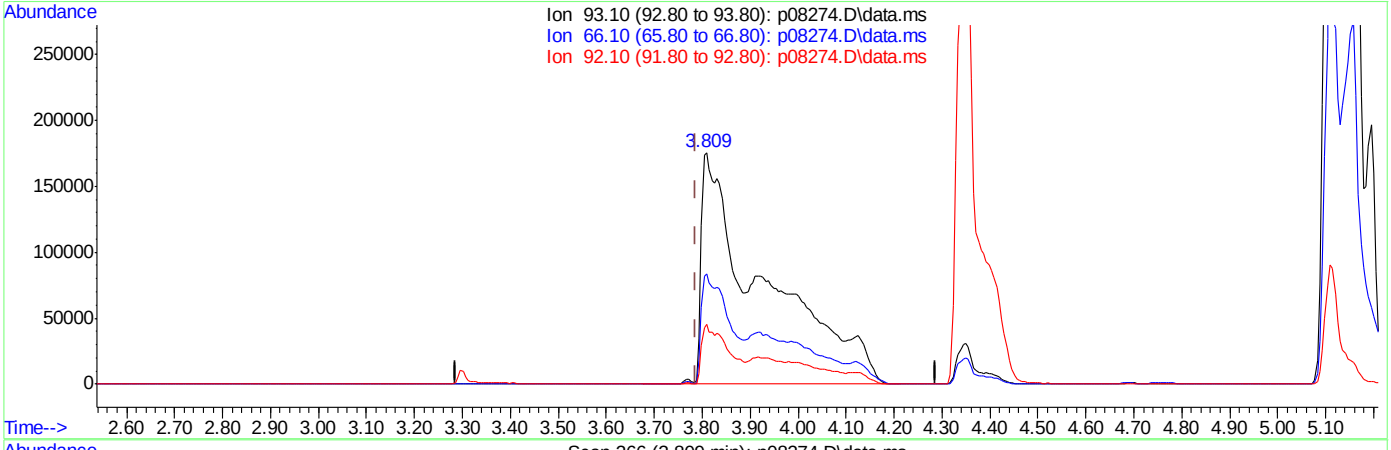
response 485228

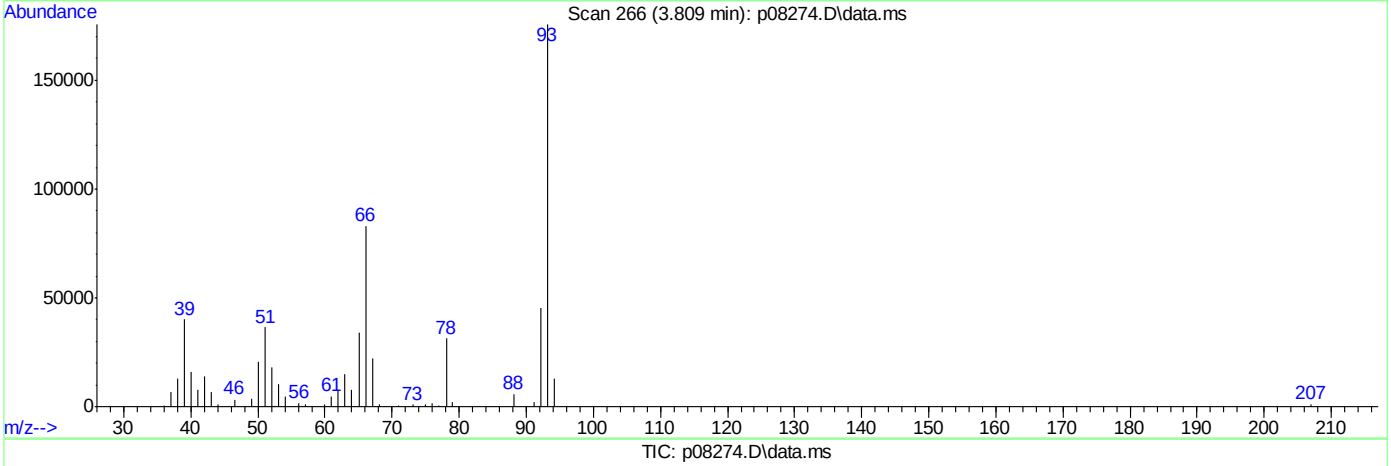
Ion	Exp%	Act%
88.10	100	100
58.10	73.00	69.48
43.10	29.90	38.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(6) 2-Picoline

3.809min (+0.021) 108.26ppm m

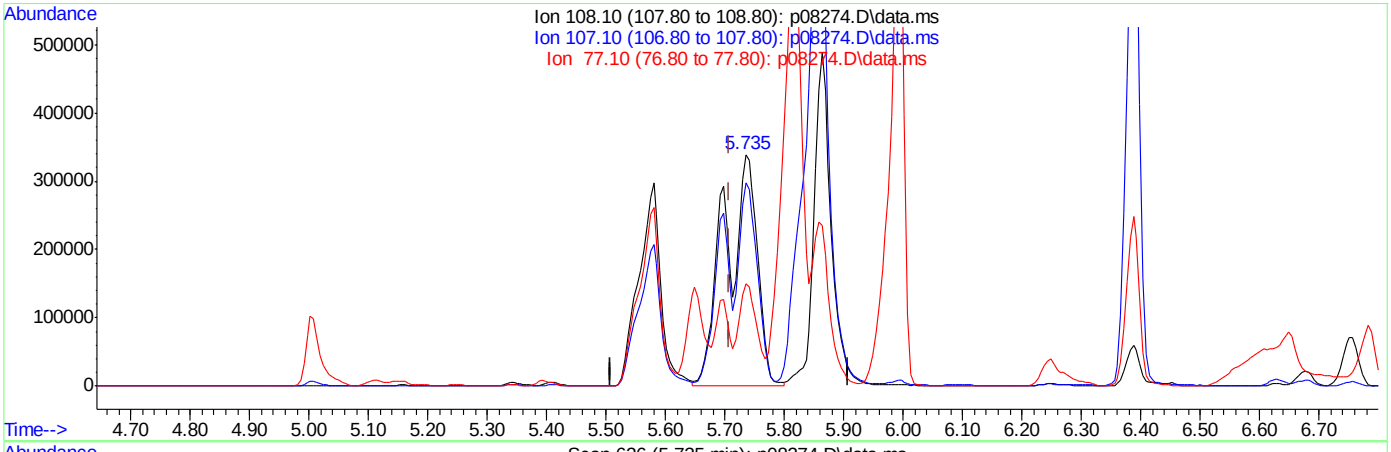
response 1580834

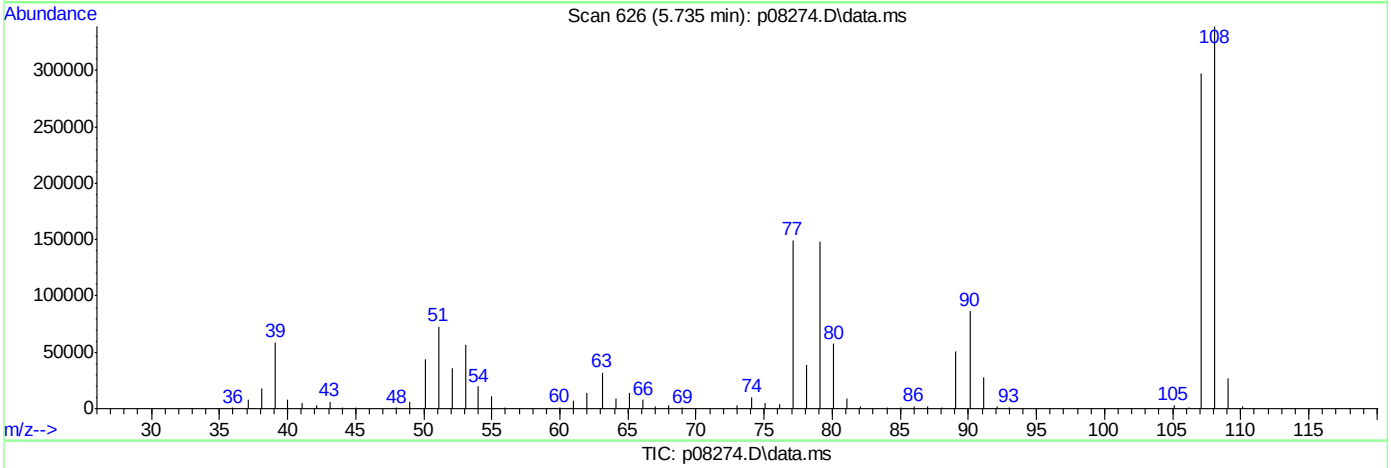
Ion	Exp%	Act%
93.10	100	100
66.10	30.20	21.09#
92.10	16.30	11.11#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
```





(23) 2-Methylphenol ( )

5.735min (+0.027) 106.20ppm m

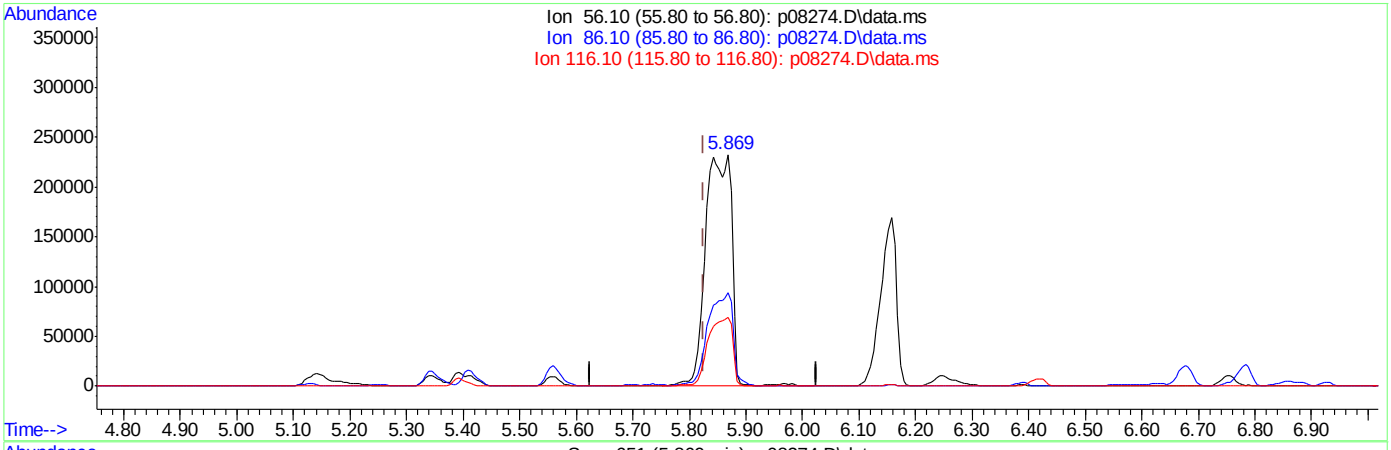
response 1287189

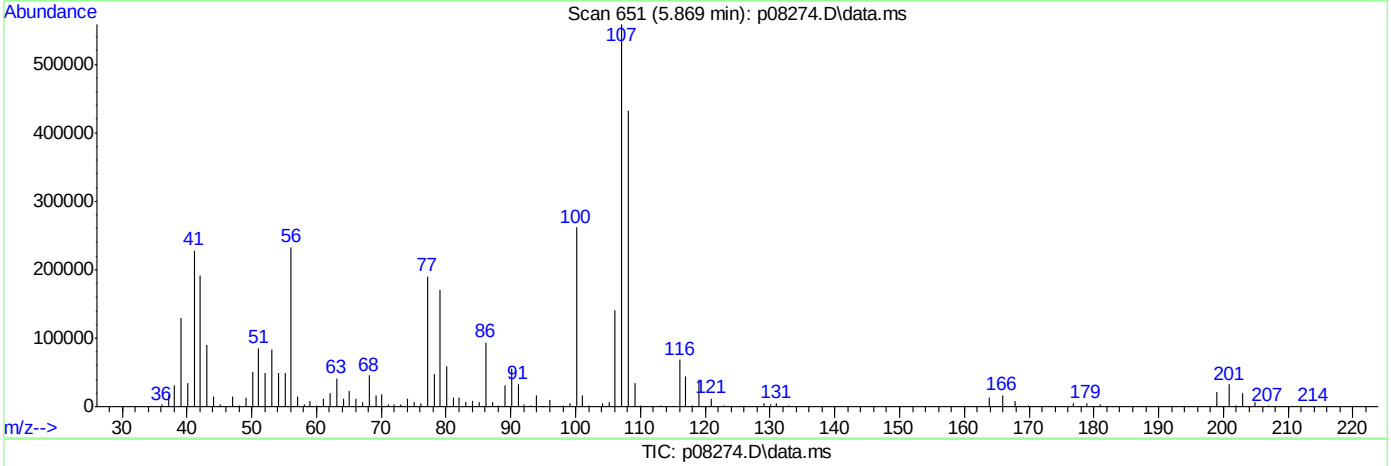
Ion	Exp%	Act%
108.10	100	100
107.10	86.50	35.06#
77.10	41.00	12.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(25) N-Nitrosomorpholine

5.869min (+0.043) 88.85ppm m

response 743470

Ion	Exp%	Act%
56.10	100	100
86.10	36.00	0.00#
116.10	25.30	0.00#
0.00	0.00	0.00

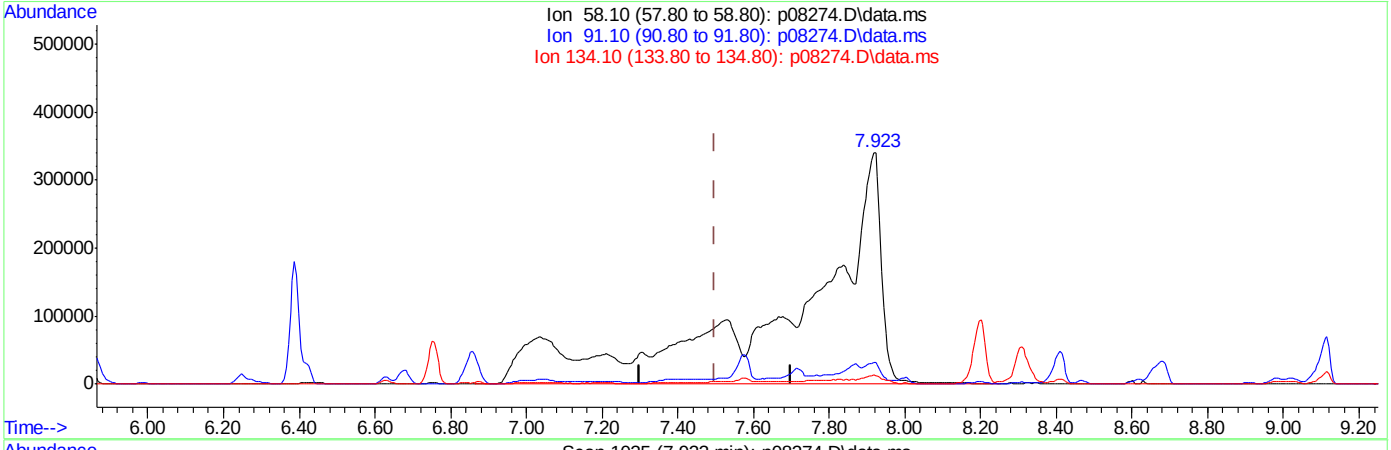
8.6.13.5

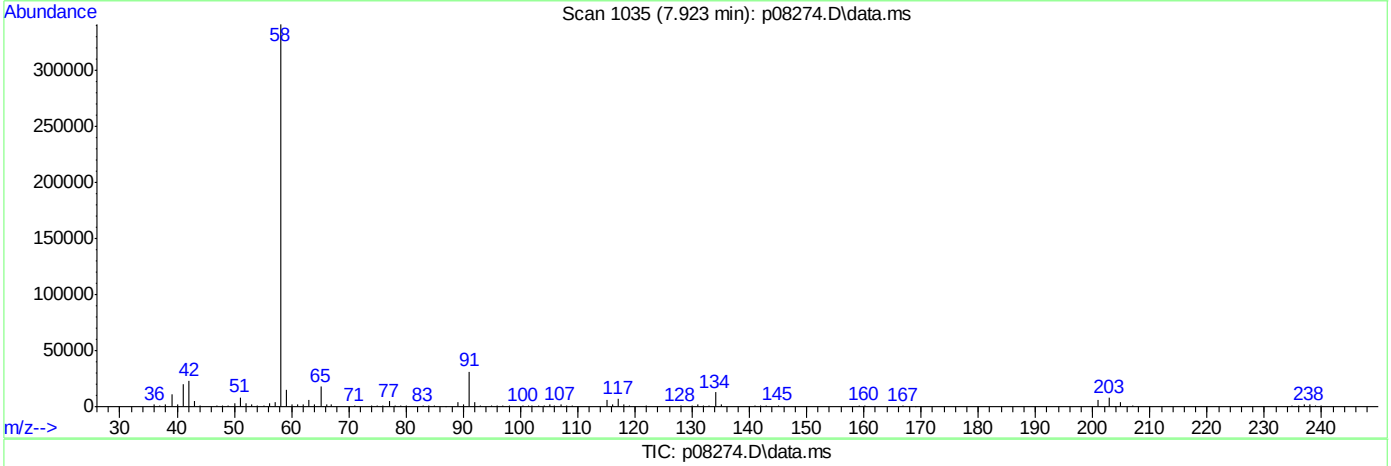
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(35) A,A-Dimethylphenethylamine

7.923min (+0.423) 110.67ppm m

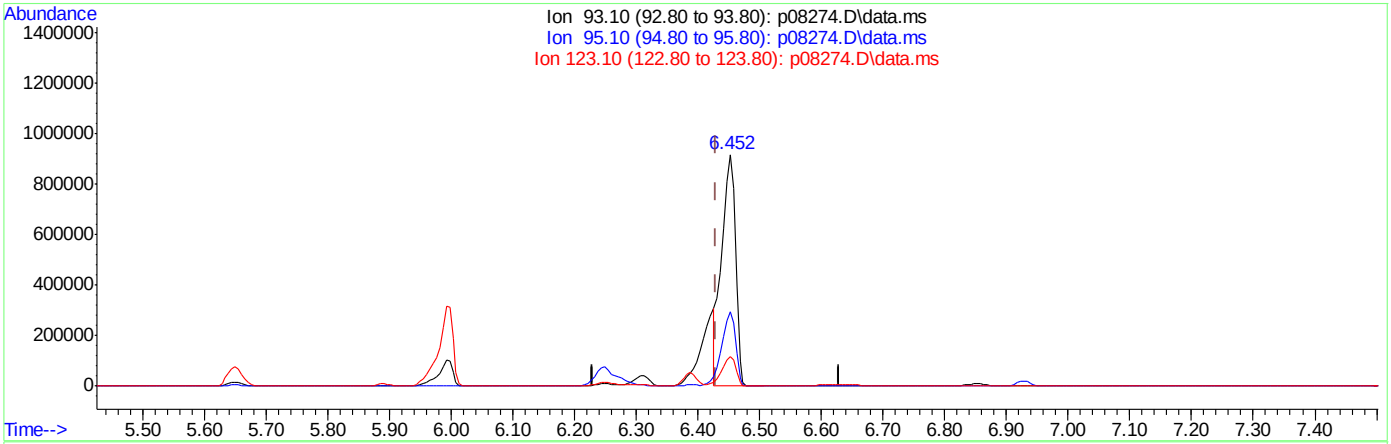
response 5294198

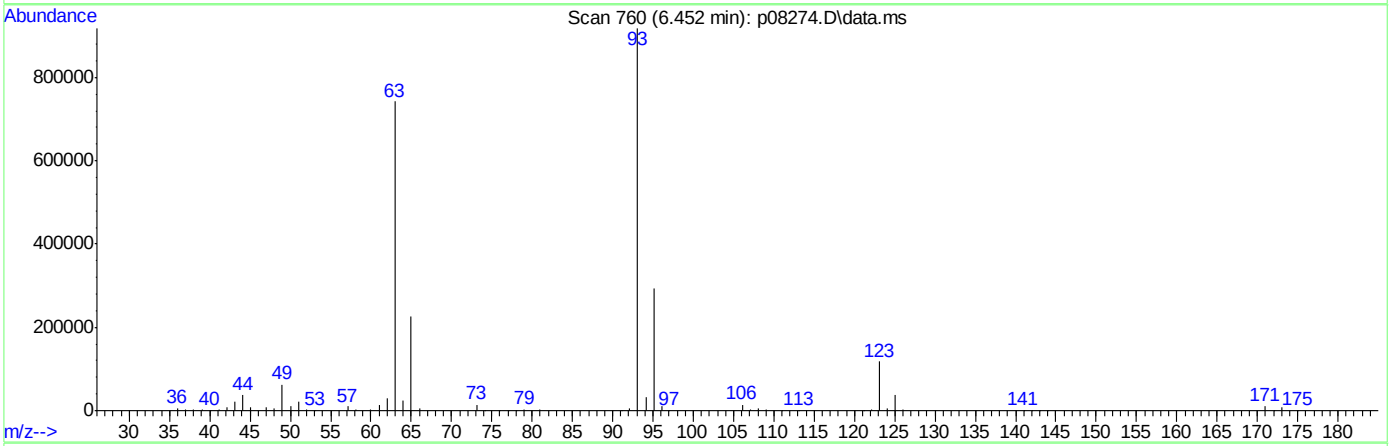
Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(39) bis(2-Chloroethoxy)methane

6.452min (+0.022) 88.90ppm m

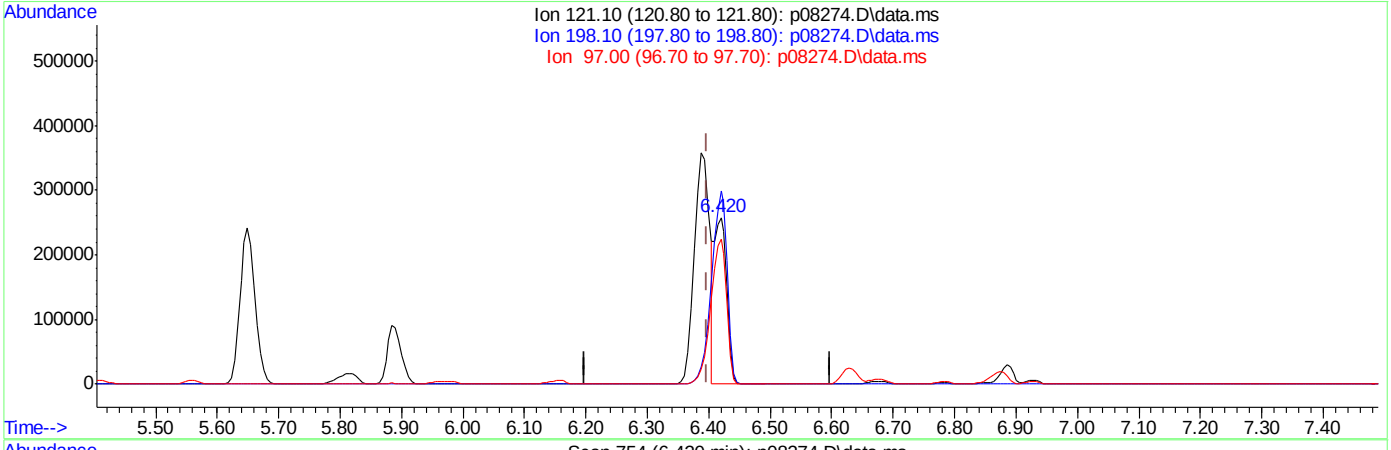
response 1428558

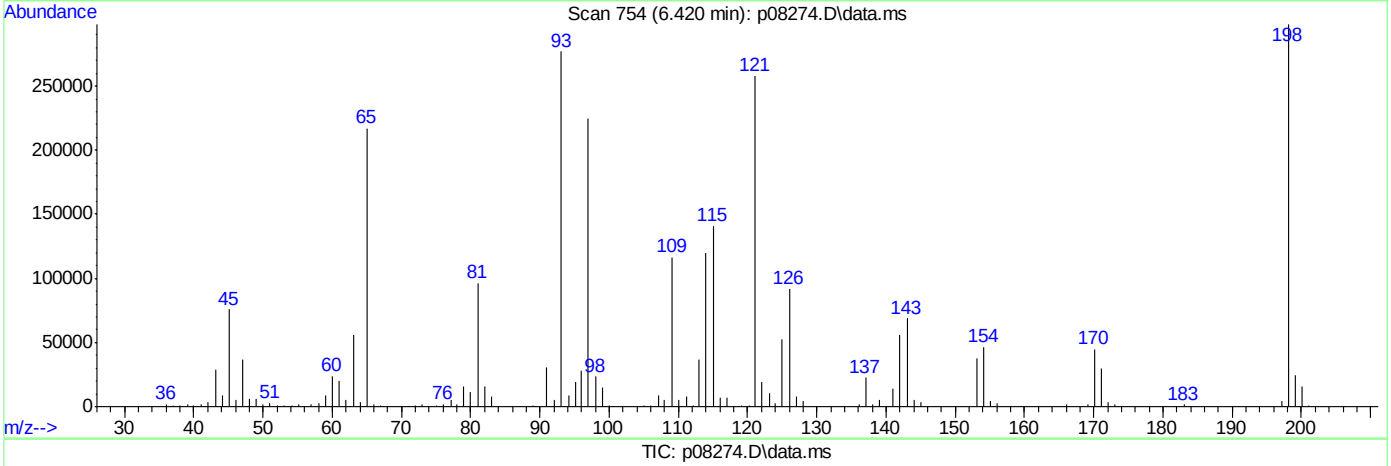
Ion	Exp%	Act%
93.10	100	100
95.10	32.80	32.45
123.10	13.50	13.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(40) O,O,O-Triethyl phosphorothioat

6.420min (+0.022) 77.37ppm m

response 382121

Ion	Exp%	Act%
121.10	100	100
198.10	121.10	0.00#
97.00	94.10	0.00#
0.00	0.00	0.00

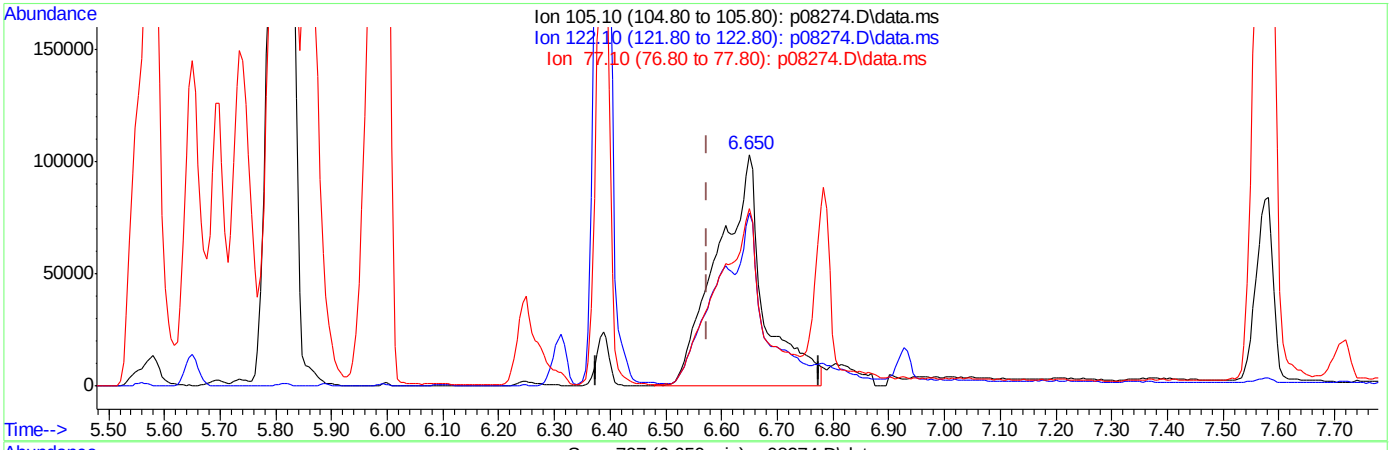
8.6.13.8

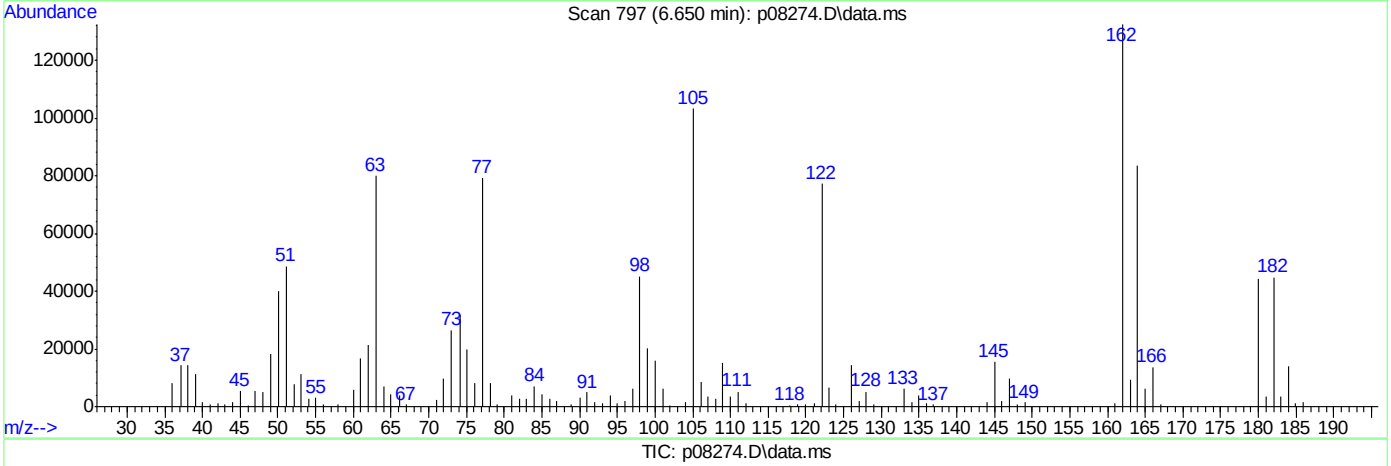
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





(41) Benzoic Acid

6.650min (+0.075) 135.77ppm m

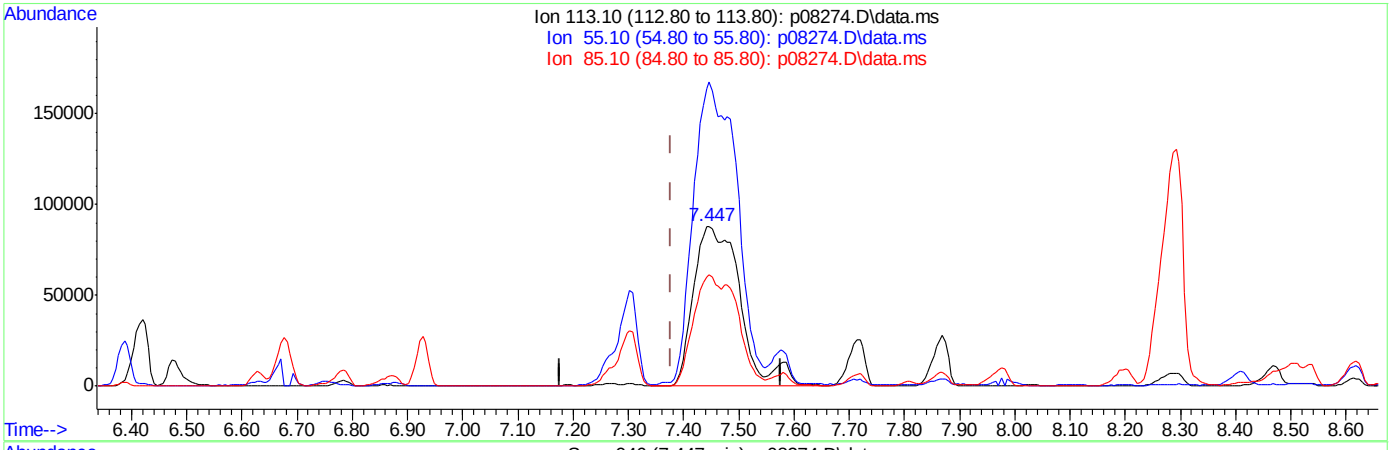
response 600085

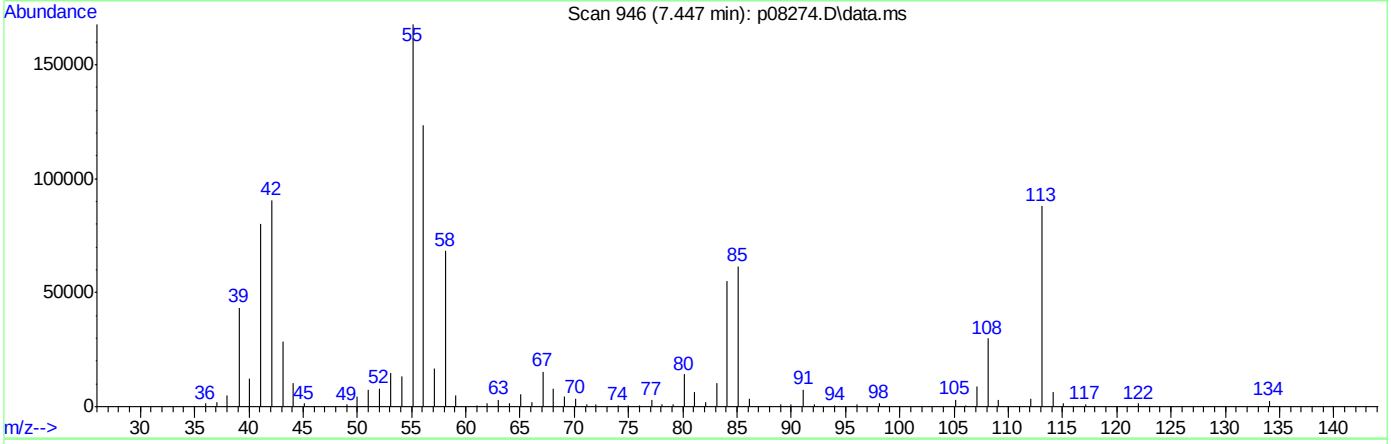
Ion	Exp%	Act%
105.10	100	100
122.10	80.10	33.08#
77.10	82.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
```





TIC: p08274.D\data.ms

(50) Caprolactam

7.447min (+0.070) 111.68ppm m

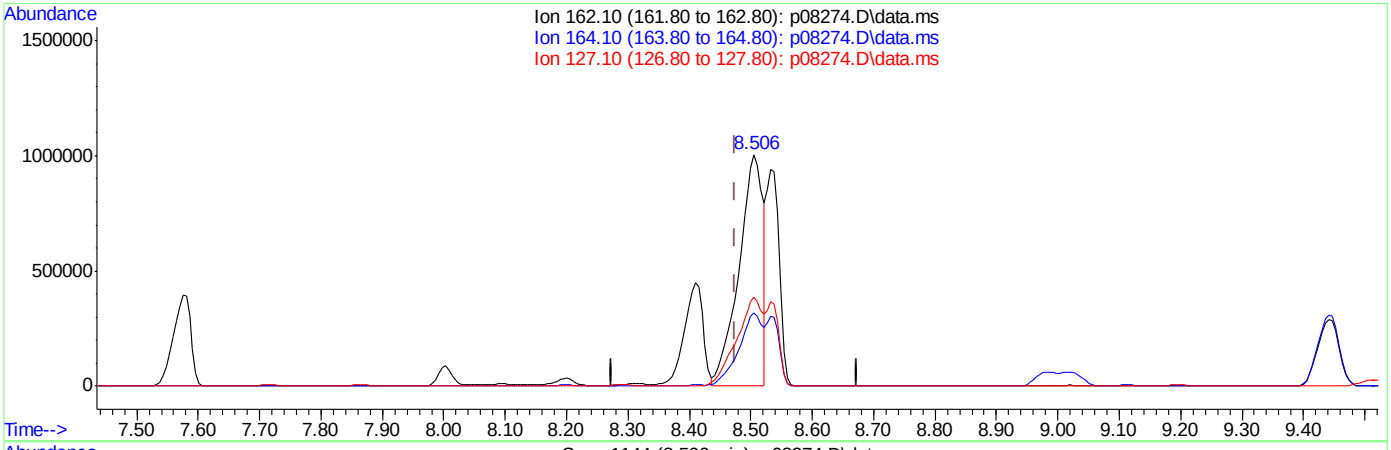
response 518021

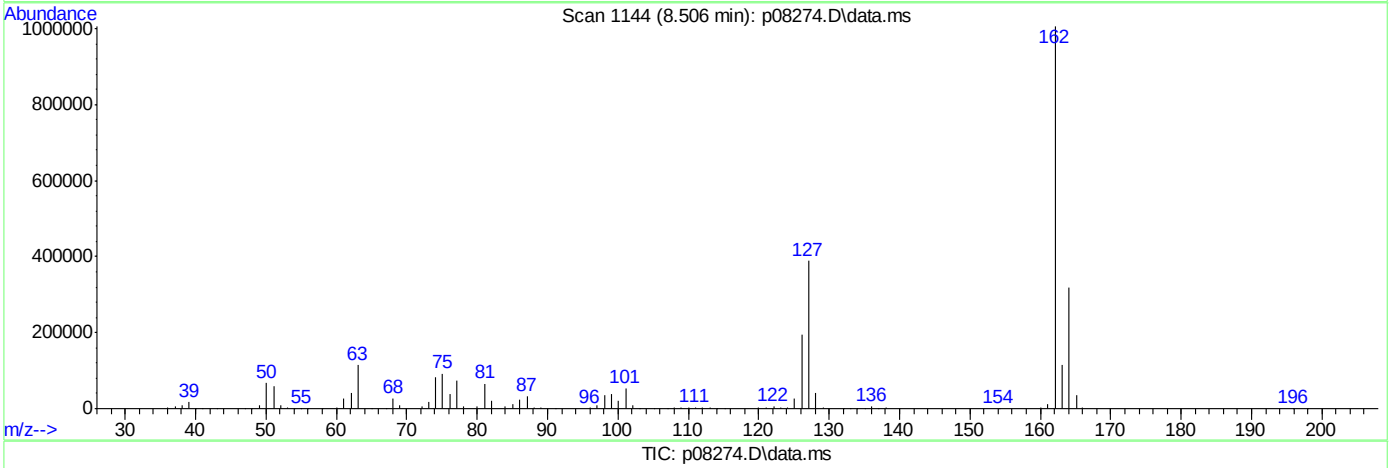
Ion	Exp%	Act%
113.10	100	100
55.10	184.60	174.87
85.10	69.10	39.53#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





TIC: p08274.D\data.ms

(64) 2-Chloronaphthalene

8.506min (+0.032) 100.94ppm m

response 2748683

Ion	Exp%	Act%
162.10	100	100
164.10	35.10	31.20
127.10	46.40	42.06
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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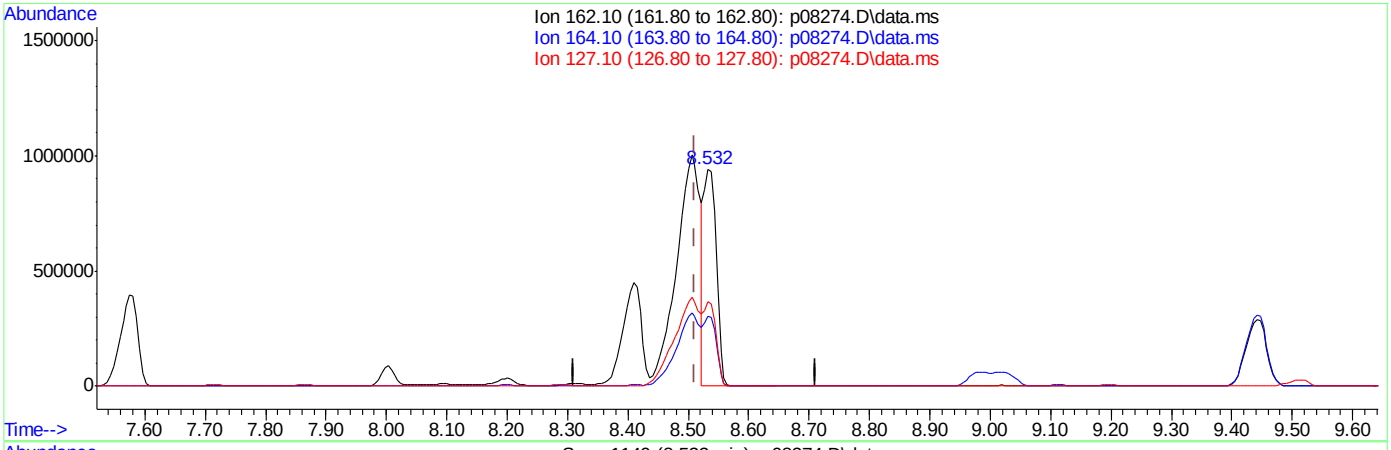

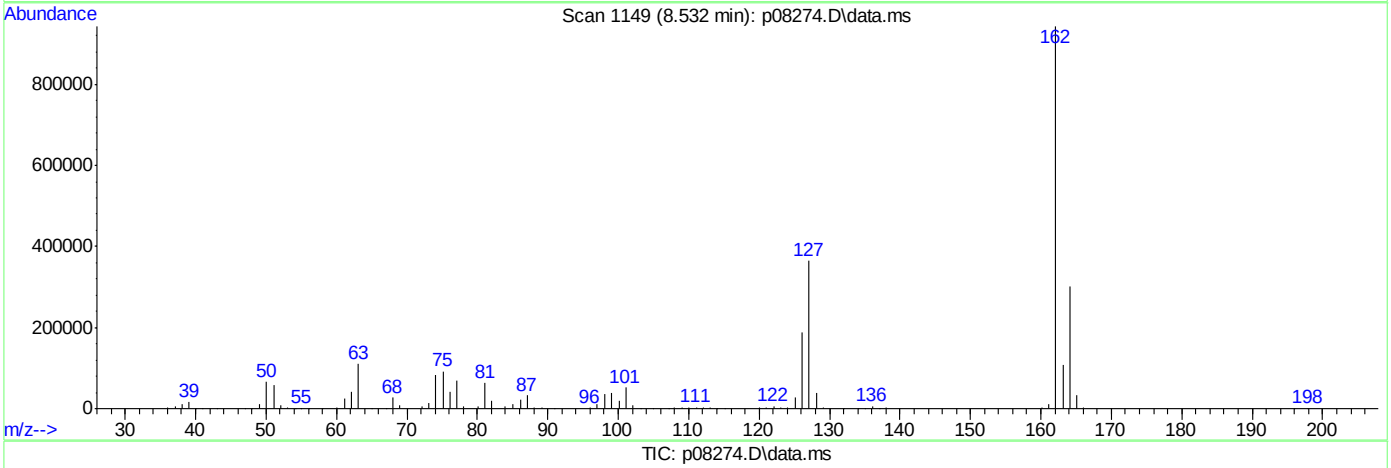

TIC: p08274.D\data.ms

(65) 1-Chloronaphthalene

8.532min (+0.021) 73.33ppm m

response 1318232

Ion	Exp%	Act%
162.10	100	100
164.10	27.70	65.05#
127.10	32.70	87.69#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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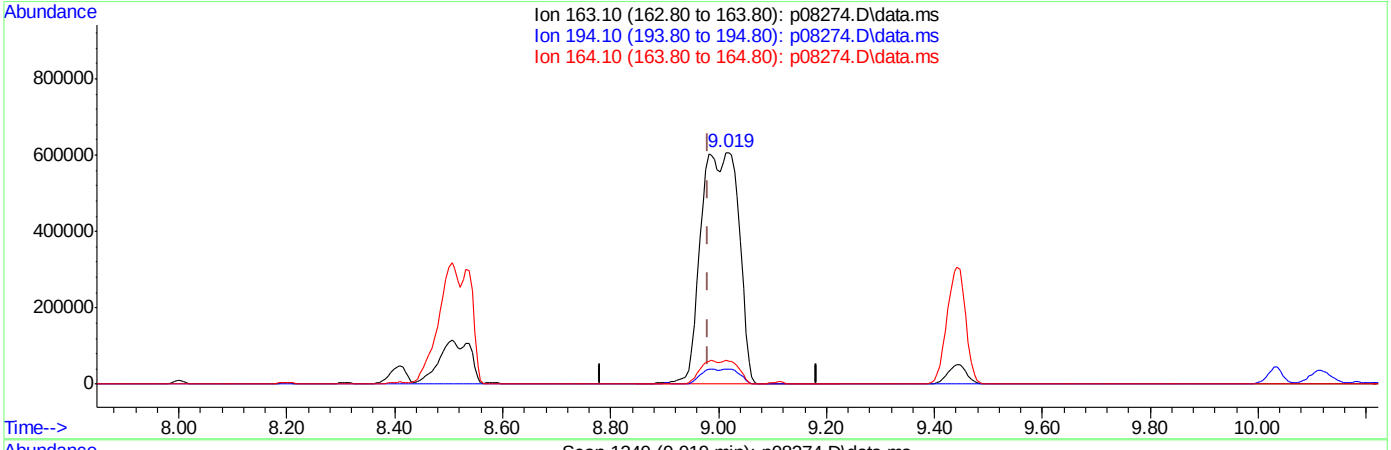
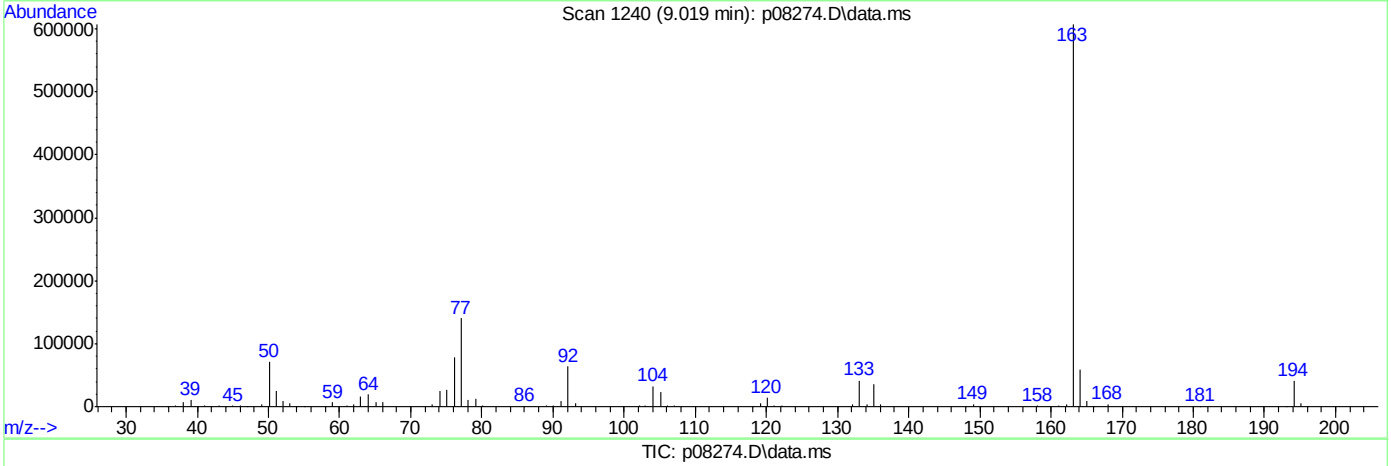




TIC: p08274.D\data.ms

(69) Dimethylphthalate

9.019min (+0.037) 101.10ppm m

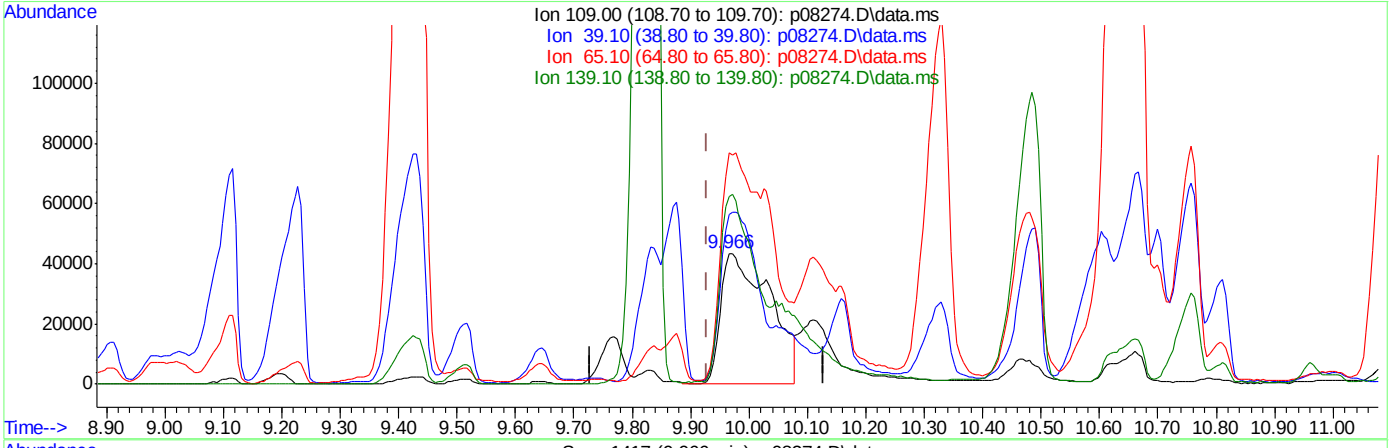
response 2972785

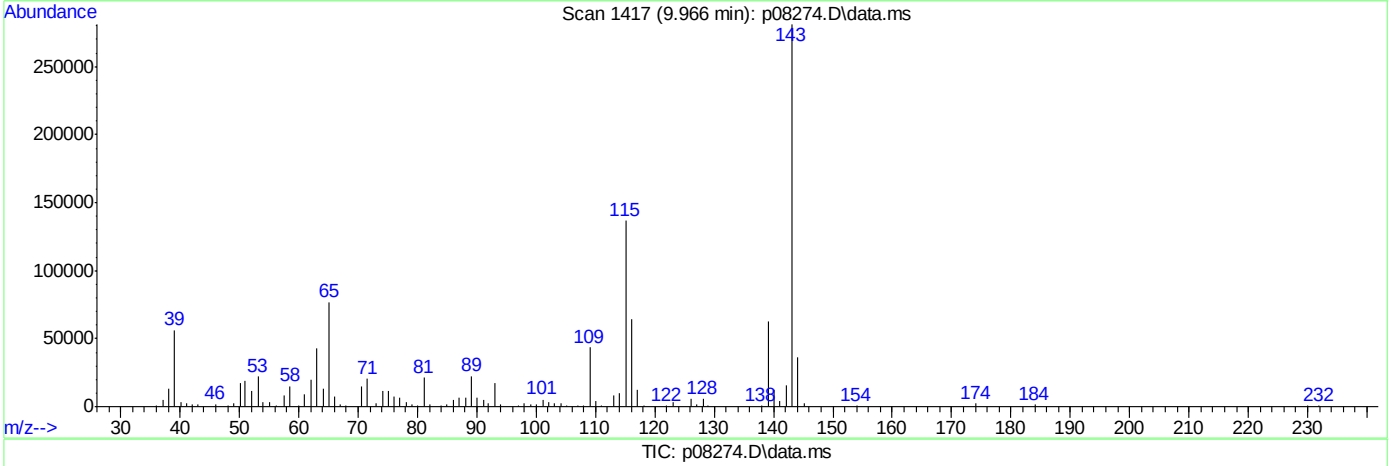
Ion	Exp%	Act%
163.10	100	100
194.10	6.60	3.29
164.10	10.10	5.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On : 22 Jan 2010 12:43 pm
Operator : garyj
Sample : ic393-100
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration





(78) 4-Nitrophenol (P)

9.966min (+0.037) 96.58ppm m

response 253769

Ion	Exp%	Act%
109.00	100	100
39.10	121.40	95.61
65.10	117.20	121.61
139.10	142.00	100.34#

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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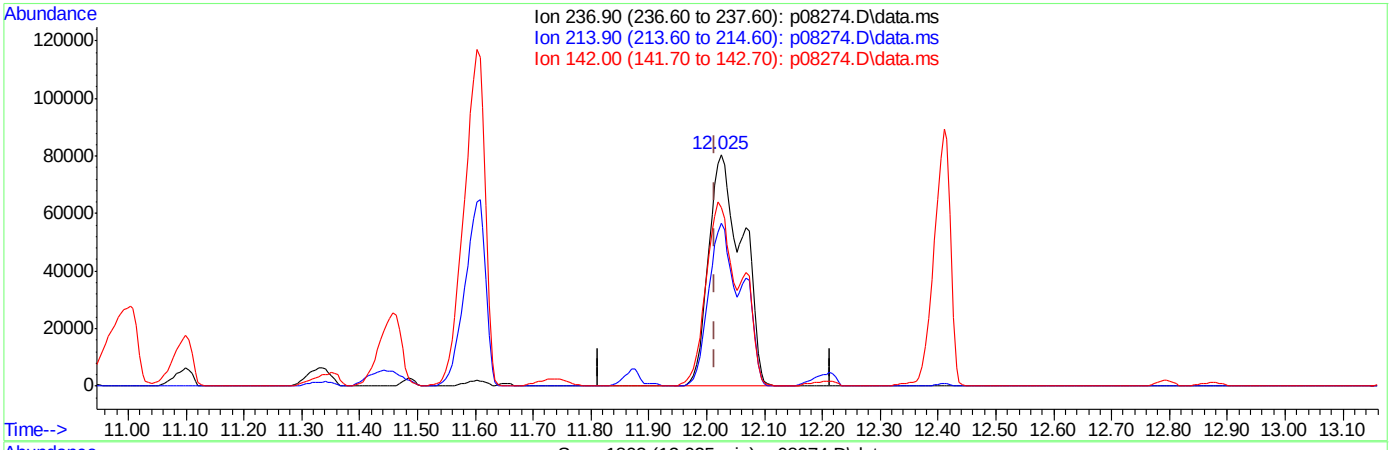

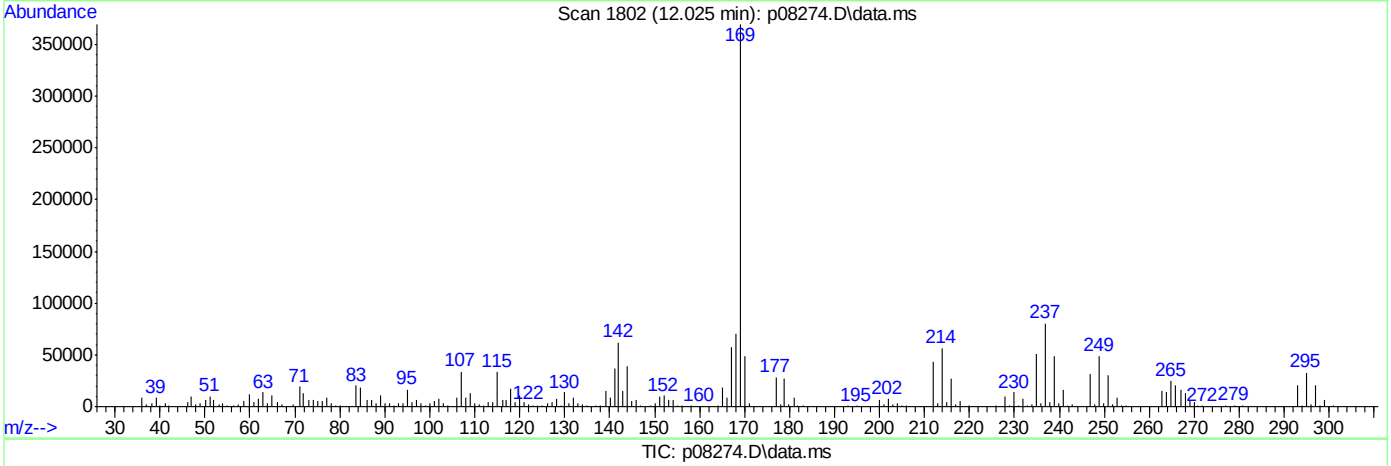

TIC: p08274.D\data.ms

(105) Pentachloronitrobenzene

12.025min (+0.011) 93.85ppm m

response 327916

Ion	Exp%	Act%
236.90	100	100
213.90	69.80	49.30#
142.00	82.80	59.42#
0.00	0.00	0.00

8.6.13.15

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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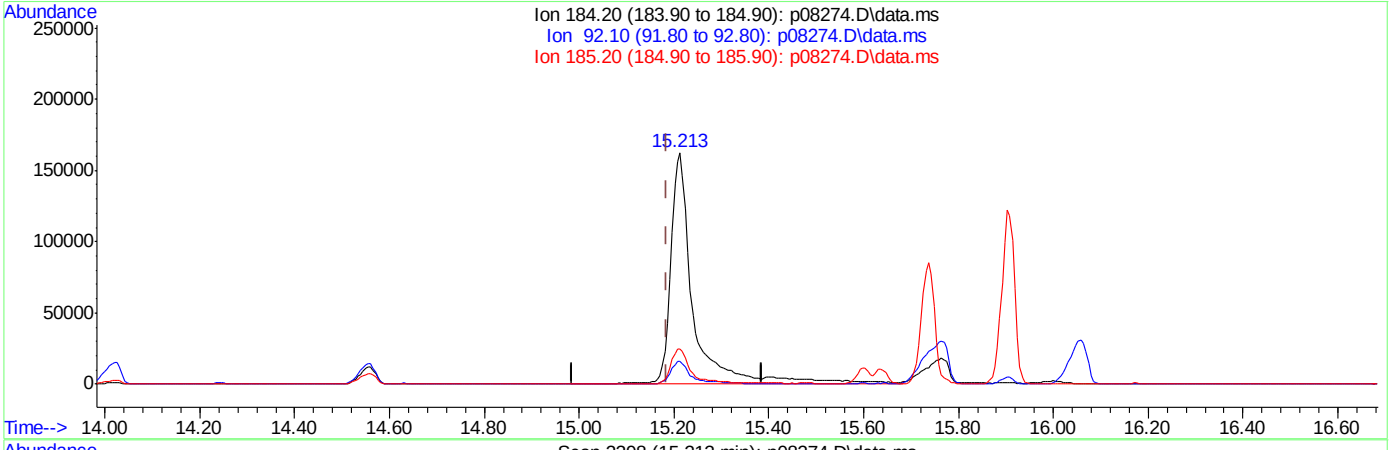

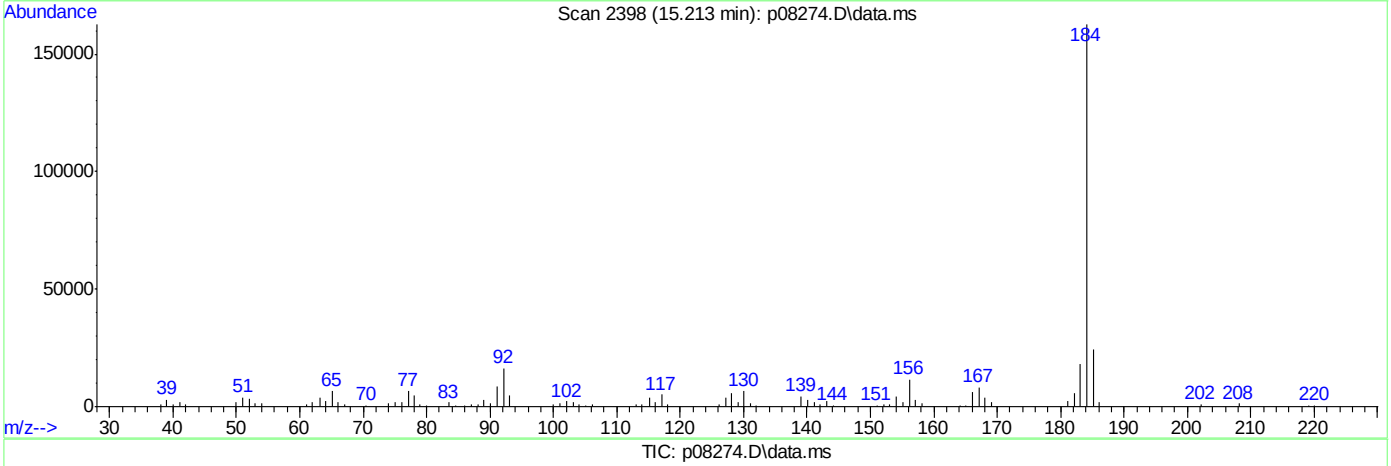

TIC: p08274.D\data.ms

(119) Benzidine

15.213min (+0.027) 95.64ppm m

response 549707

Ion	Exp%	Act%
184.20	100	100
92.10	9.90	8.99
185.20	14.40	13.79
0.00	0.00	0.00

8.6.13.16

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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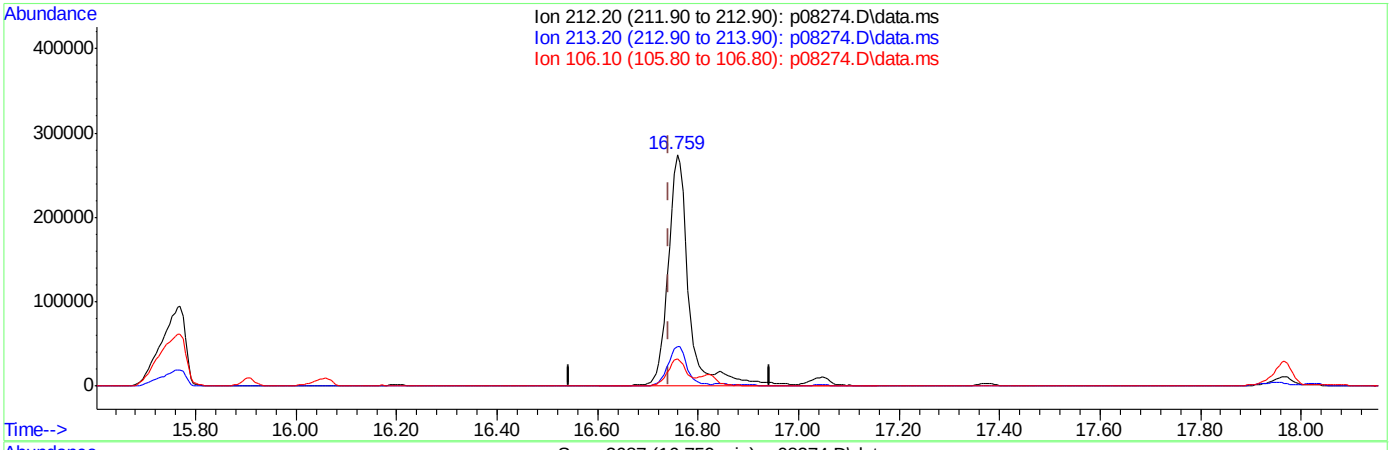

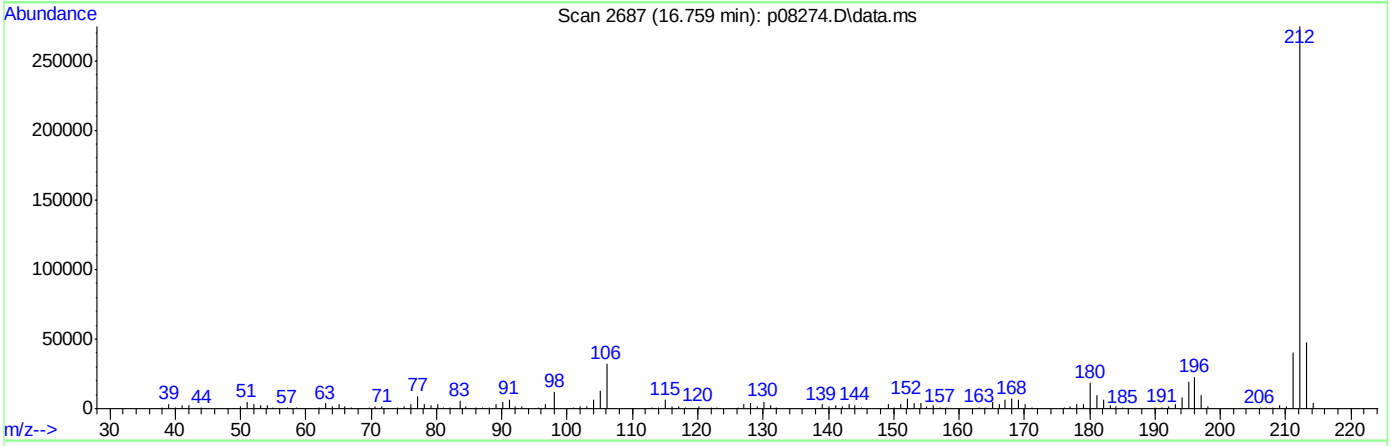

TIC: p08274.D\data.ms

(126) 3,3'-Dimethylbenzidine

16.759min (+0.016) 91.82ppm m

response 828629

Ion	Exp%	Act%
212.20	100	100
213.20	16.90	15.11
106.10	11.20	10.06
0.00	0.00	0.00

8.6.13.17

8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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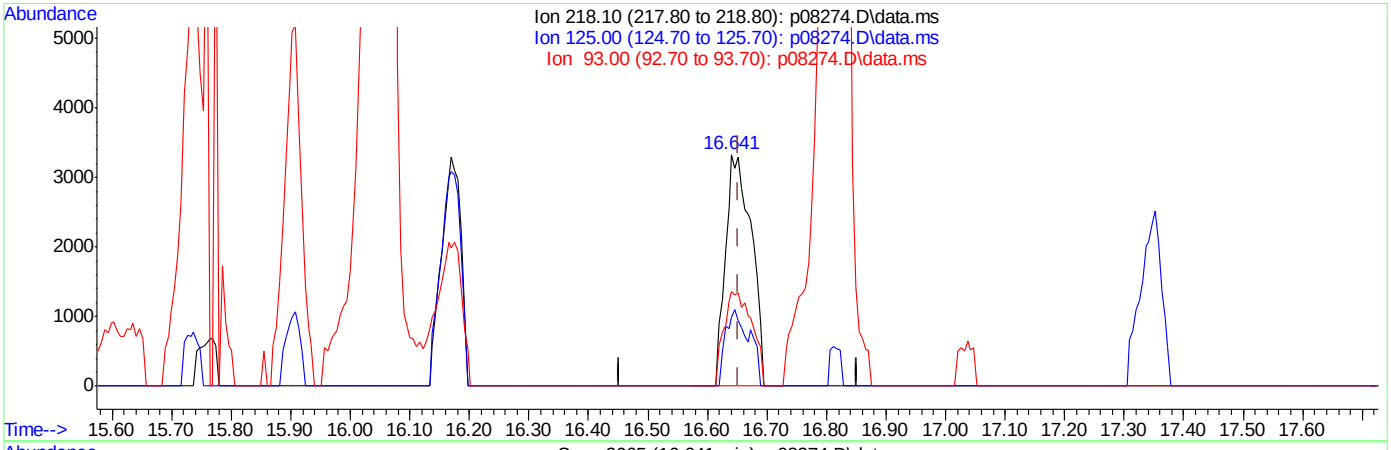

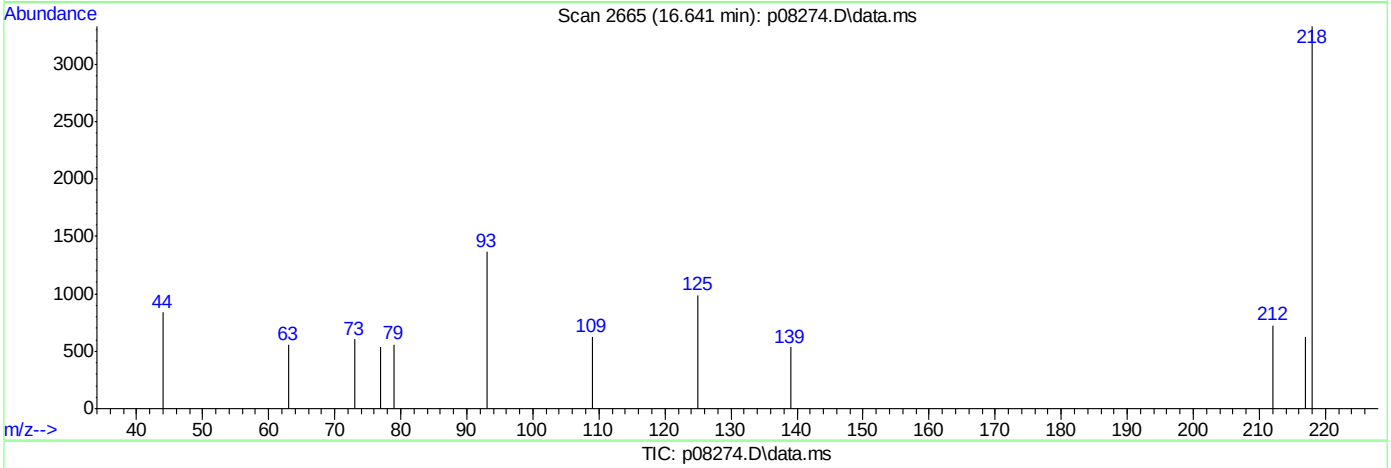

TIC: p08274.D\data.ms

(127) Famphur

16.641min (-0.011) 6.07ppm m

response 10030

Ion	Exp%	Act%
218.10	100	100
125.00	0.00	0.00
93.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08274.D
Acq On    : 22 Jan 2010  12:43 pm
Operator  : garyj
Sample    : ic393-100
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jan 22 14:42:14 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:39:54 2010
Response via : Initial Calibration
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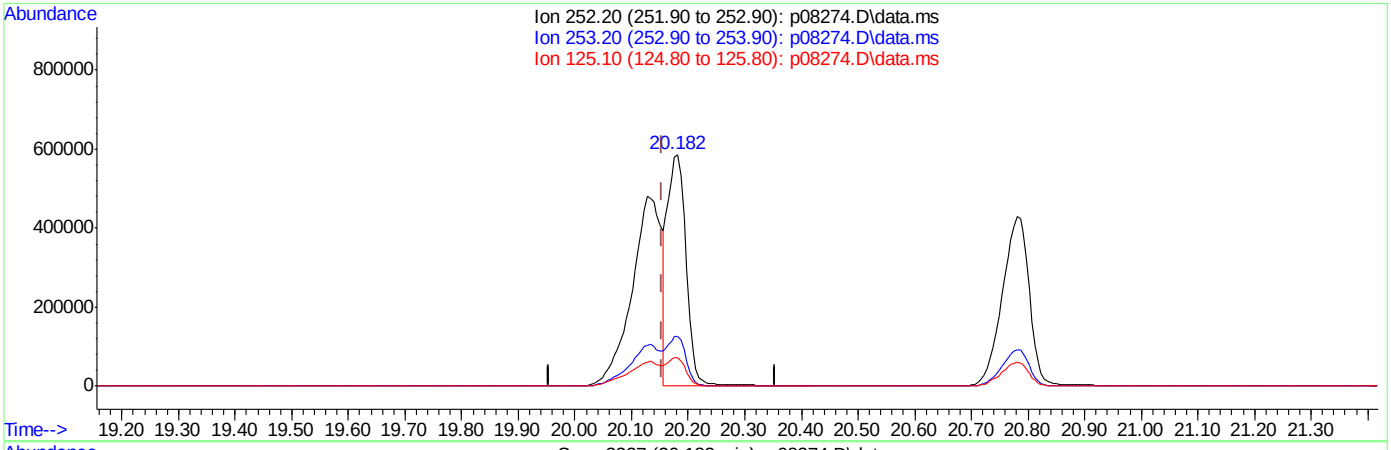
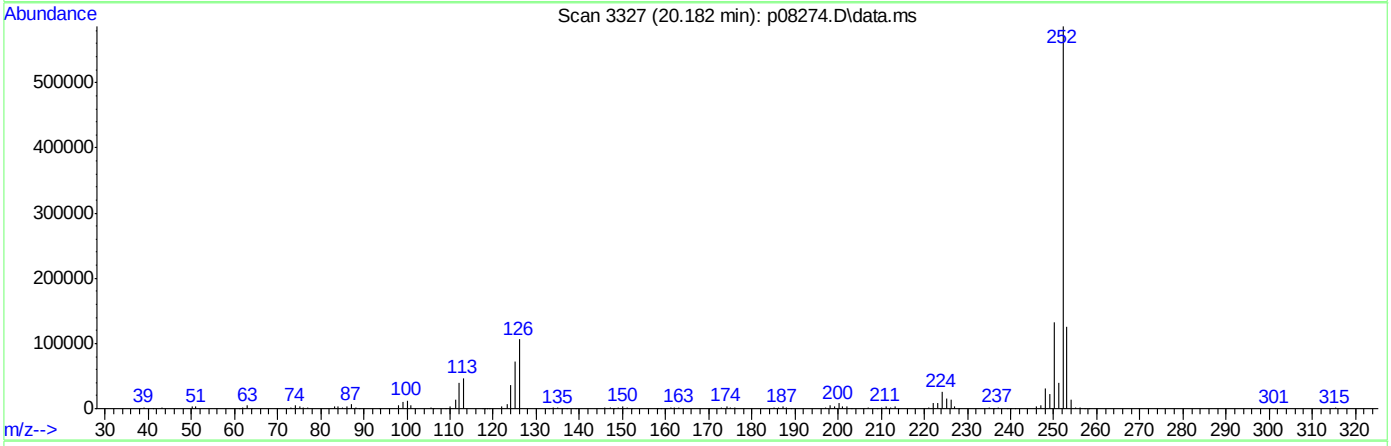




TIC: p08274.D\data.ms

(137) Benzo[k]fluoranthene

20.182min (+0.027) 94.52ppm m

response 1380325

Ion	Exp%	Act%
252.20	100	100
253.20	19.40	19.03
125.10	12.70	11.07
0.00	0.00	0.00

8.6.13.19

8

P08275.D

Manual Integrations APPROVED (compounds with "m" flag)

Richard Rodriguez 01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.393	152	280381	40.00	ppm	# 0.00
31) Naphthalene-d8	6.757	136	1100573	40.00	ppm	0.02
57) Acenaphthene-d10	9.447	164	688622	40.00	ppm	0.02
88) Phenanthrene-d10	12.367	188	1271476	40.00	ppm	0.03
118) Chrysene-d12	17.978	240	734745	40.00	ppm	0.03
134) Perylene-d12	20.898	264	461743	40.00	ppm	0.02
System Monitoring Compounds						
13) 2-Fluorophenol	4.355	112	4727829	456.88	ppm	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery	= 456.88%#		
15) Phenol-d5	5.152	99	5214722	431.38	ppm	0.03
Spiked Amount 100.000	Range 10 - 53		Recovery	= 431.38%#		
32) Nitrobenzene-d5	5.981	82	3022057	218.61	ppm	0.03
Spiked Amount 50.000	Range 29 - 115		Recovery	= 437.22%#		
61) 2-Fluorobiphenyl	8.297	172	5200186	212.62	ppm	0.03
Spiked Amount 50.000	Range 34 - 113		Recovery	= 425.24%#		
93) 2,4,6-Tribromophenol	11.020	330	1639264	497.00	ppm	0.06
Spiked Amount 100.000	Range 32 - 128		Recovery	= 497.00%#		
121) Terphenyl-d14	15.774	244	5232762	275.81	ppm	0.04
Spiked Amount 50.000	Range 12 - 145		Recovery	= 551.62%#		
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.820	79	1425521	127.73	ppm	97
3) 1,4-Dioxane	2.756	88	571305m	129.58	ppm	
4) N-nitrosodimethylamine	3.098	42	748228	131.98	ppm	99
5) Pyridine	3.077	79	1571011	134.70	ppm	99
6) 2-Picoline	3.815	93	1825650m	134.05	ppm	
7) N-Nitrosomethylethylamine	3.901	42	1024638	131.21	ppm	100
8) Methyl methanesulfonate	4.173	80	896562	125.63	ppm	98
9) N-Nitrosodiethylamine	4.510	102	784581	127.56	ppm	99
10) Ethyl methanesulfonate	4.772	79	1296725	130.89	ppm	99
11) Benzaldehyde	5.008	106	203697	61.02	ppm	98
12) Aniline	5.115	93	1432939	99.40	ppm	98
14) bis(2-Chloroethyl)ether	5.163	93	1539227m	125.12	ppm	
16) Phenol	5.163	94	1520390	111.50	ppm #	97
17) 2-Chlorophenol	5.254	128	1265054	118.52	ppm	99
18) 1,3-Dichlorobenzene	5.345	146	1553146	118.81	ppm	99
19) 1,4-Dichlorobenzene	5.414	146	1458954	119.38	ppm	100
20) 1,2-Dichlorobenzene	5.564	146	1280068	111.99	ppm	99
21) Benzyl alcohol	5.591	108	887411	121.31	ppm	100
22) bis(2-chloroisopropyl)...	5.655	45	2487996	109.42	ppm	98
23) 2-Methylphenol	5.746	108	1453820m	128.56	ppm	
24) N-Nitrosopyrrolidine	5.880	100	539335	102.56	ppm #	1
25) N-Nitrosomorpholine	5.858	56	746222	95.62	ppm	91
26) o-Toluidine	5.858	106	1761626	111.80	ppm #	90
27) Acetophenone	5.826	105	1722797	119.24	ppm #	100
28) Hexachloroethane	5.890	117	500104	103.20	ppm	96
29) N-Nitroso-di-n-propyla...	5.847	70	877410	109.67	ppm	84
30) 3&4-Methylphenol	5.874	108	1085851	103.69	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Nitrobenzene	6.003	77	1418757	108.06	ppm		99
34) N-Nitrosopiperidine	6.168	42	1240973	116.44	ppm		100
35) A,A-Dimethylphenethyla...	8.067	58	5892129m	130.54	ppm		
36) Isophorone	6.259	82	3120462	115.39	ppm		100
37) 2-Nitrophenol	6.318	139	734684	117.68	ppm		96
38) 2,4-Dimethylphenol	6.398	107	1264975	105.73	ppm	#	78
39) bis(2-Chloroethoxy)met...	6.457	93	1587911m	104.76	ppm		
40) O,O,O-Triethyl phospho...	6.425	121	351227m	75.44	ppm		
41) Benzoic Acid	6.666	105	666020m	159.57	ppm		
42) 2,4-Dichlorophenol	6.639	162	1057914	113.00	ppm		99
43) 1,2,4-Trichlorobenzene	6.682	180	1148498	108.66	ppm		99
44) Naphthalene	6.789	128	3297952	106.75	ppm		100
45) 4-Chloroaniline	6.864	127	1383417	108.73	ppm		98
46) 2,6-Dichlorophenol	6.885	162	892521	104.33	ppm		98
47) Hexachloropropene	6.890	213	561128	110.33	ppm		100
48) Hexachlorobutadiene	6.933	225	708098	108.88	ppm		100
49) p-Phenylenediamine	7.420	108	320233m	95.56	ppm		
50) Caprolactam	7.468	113	585036m	133.70	ppm		
51) N-Nitrosodi-n-butylamine	7.313	84	1072897	109.11	ppm		98
52) 4-Chloro-3-methylphenol	7.596	107	1112164	113.71	ppm		100
53) Isosafrole	7.580	162	899227	107.01	ppm		100
54) 2-Methylnaphthalene	7.725	142	2320792	110.58	ppm		100
55) 1-Methylnaphthalene	7.875	142	2220724	108.20	ppm		99
56) 1,2,4,5-Tetrachloroben...	7.982	216	1079641	111.95	ppm		99
58) Hexachlorocyclopentadiene	7.960	237	334126	158.44	ppm		99
59) 2,4,6-Trichlorophenol	8.211	196	870540	129.11	ppm		100
60) 2,4,5-Trichlorophenol	8.318	196	763868	125.02	ppm		99
62) Safrole	8.420	162	1048830	115.32	ppm		98
63) 1,1'-Biphenyl	8.479	154	2667735	107.14	ppm		100
64) 2-Chloronaphthalene	8.511	162	3214836m	126.67	ppm		
65) 1-Chloronaphthalene	8.543	162	1568533m	93.68	ppm		
66) 2-Nitroaniline	8.693	65	976840	128.19	ppm		98
67) 1,4-Naphthoquinone	8.794	158	826652	113.12	ppm		99
68) Acenaphthylene	9.212	152	3734433	114.51	ppm		100
69) Dimethylphthalate	8.992	163	3386531m	123.65	ppm		
70) m-Dinitrobenzene	9.099	168	503342	122.21	ppm		95
71) 2,6-Dinitrotoluene	9.131	165	711821	116.35	ppm		99
72) Acenaphthene	9.527	153	2386966	113.58	ppm		100
73) 3-Nitroaniline	9.442	138	725177	125.99	ppm		99
74) 2,4-Dinitrophenol	9.656	184	400637	183.22	ppm		98
75) Dibenzofuran	9.843	168	3132828	117.15	ppm		100
76) Pentachlorobenzene	9.779	250	1060277	121.26	ppm		100
77) 2,4-Dinitrotoluene	9.891	165	992458	133.08	ppm	#	79
78) 4-Nitrophenol	9.998	109	311614m	133.44	ppm		
79) 1-Naphthylamine	10.003	143	1781905	129.76	ppm		99
80) 2-Naphthylamine	10.174	143	1578572	143.48	ppm		96
81) 2,3,4,6-Tetrachlorophenol	10.046	232	596317	150.10	ppm		100
82) Fluorene	10.490	166	2383169	112.61	ppm		100
83) 4-Chlorophenyl-phenyle...	10.495	204	1154196	108.07	ppm		93
84) Diethylphthalate	10.346	149	3120760	118.74	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	5-Nitro-o-toluidine	10.613	152	881369	127.99	ppm		96
86)	Thionazin	10.479	97	537393	100.47	ppm		98
87)	4-Nitroaniline	10.688	138	723304	130.89	ppm		98
89)	4,6-Dinitro-2-methylph...	10.720	198	533928	131.78	ppm		82
90)	n-Nitrosodiphenylamine	10.774	169	2489813	102.95	ppm		97
91)	1,2-Diphenylhydrazine	10.822	77	3514740	112.84	ppm		95
92)	Diphenylamine	10.774	169	2489813	102.95	ppm		97
94)	Tetraethyl dithiopyrop...	11.110	97	486270	102.66	ppm		95
95)	sym-Trinitrobenzene	11.474	213	313077	118.26	ppm	#	33
96)	Diallate	11.335	43	1447022	97.39	ppm		94
97)	Phorate	11.367	75	1741589	87.63	ppm		98
98)	4-Bromophenyl-phenylether	11.469	248	819845	108.62	ppm		97
99)	Phenacetin	11.544	108	1439759	118.83	ppm		97
100)	Hexachlorobenzene	11.619	284	834970	111.80	ppm		98
101)	Dimethoate	11.747	87	455948	55.01	ppm		99
102)	Atrazine	11.881	200	187270	37.40	ppm		99
103)	4-aminobiphenyl	12.020	169	1803647	94.63	ppm	#	97
104)	Pentachlorophenol	12.068	266	342908	156.13	ppm		99
105)	Pentachloronitrobenzene	12.036	237	374371m	111.54	ppm		
106)	Pronamide	12.228	173	1426056	108.04	ppm		100
107)	Phenanthrene	12.437	178	3595850	106.25	ppm		100
108)	Anthracene	12.544	178	4012049	110.16	ppm		100
109)	Disulfoton	12.426	88	1586039	91.94	ppm		96
110)	Carbazole	12.892	167	3672502	111.76	ppm		99
111)	Methyl parathion	13.175	109	522860	72.67	ppm		98
112)	Di-n-butylphthalate	13.667	149	5000437	102.42	ppm		100
113)	4-Nitroquinoline 1-Oxide	14.063	190	134066	153.09	ppm		99
114)	Parathion	14.031	97	625966	105.06	ppm		98
115)	Methapyrilene	14.255	58	467417	101.99	ppm		100
116)	Isodrin	14.566	193	480786	102.41	ppm		99
117)	Fluoranthene	14.913	202	4064409	108.30	ppm		99
119)	Benzidine	15.224	184	584745m	106.14	ppm		
120)	Pyrene	15.384	202	4185538	135.10	ppm		99
122)	Aramite	15.914	185	250397	116.75	ppm		99
123)	p-(Dimethylamine)azobe...	16.069	120	1128854	136.12	ppm		99
124)	Chlorobenzilate	16.181	139	1346078	128.29	ppm		96
126)	3,3'-Dimethylbenzidine	16.769	212	962275m	109.46	ppm		
127)	Famphur	16.646	218	10782m	6.81	ppm		
128)	Butylbenzylphthalate	16.834	149	1871124	123.68	ppm		100
129)	2-Acetylaminofluorene	17.363	181	922675	120.74	ppm		100
130)	3,3'-Dichlorobenzidine	17.925	252	665947	110.78	ppm		100
131)	Benzo[a]anthracene	17.951	228	2776397	123.02	ppm		100
132)	Chrysene	18.037	228	2595111m	121.92	ppm		
133)	bis(2-Ethylhexyl)phtha...	18.085	149	2308733	114.85	ppm		100
135)	Di-n-octylphthalate	19.390	149	3350317	114.87	ppm		100
136)	Benzo[b]fluoranthene	20.150	252	2151864	125.86	ppm		96
137)	Benzo[k]fluoranthene	20.192	252	1735762m	115.54	ppm		
138)	7,12-Dimethylbenz(a)an...	20.096	256	931966	130.44	ppm		99
140)	Benzo[a]pyrene	20.797	252	1720446	120.46	ppm		99
141)	3-Methylcholanthrene	21.578	268	770075	124.38	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
142) Indeno[1,2,3-cd]pyrene	23.583	276	1380010	121.49 ppm	98
143) Dibenz[a,h]anthracene	23.616	278	1170695	122.69 ppm	97
144) Benzo[g,h,i]perylene	24.348	276	1099191	120.01 ppm	99

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

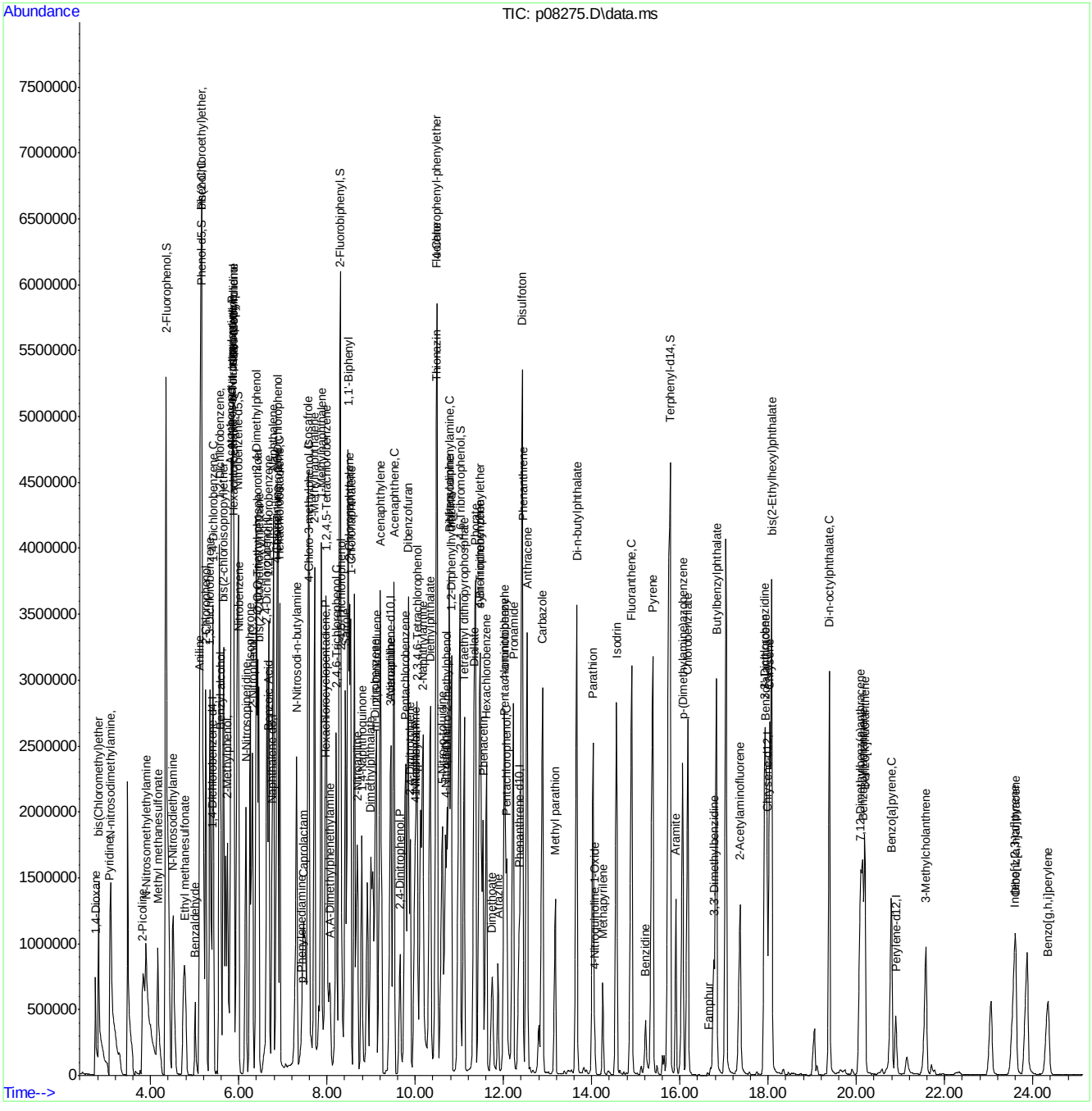
8.6.14

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration



ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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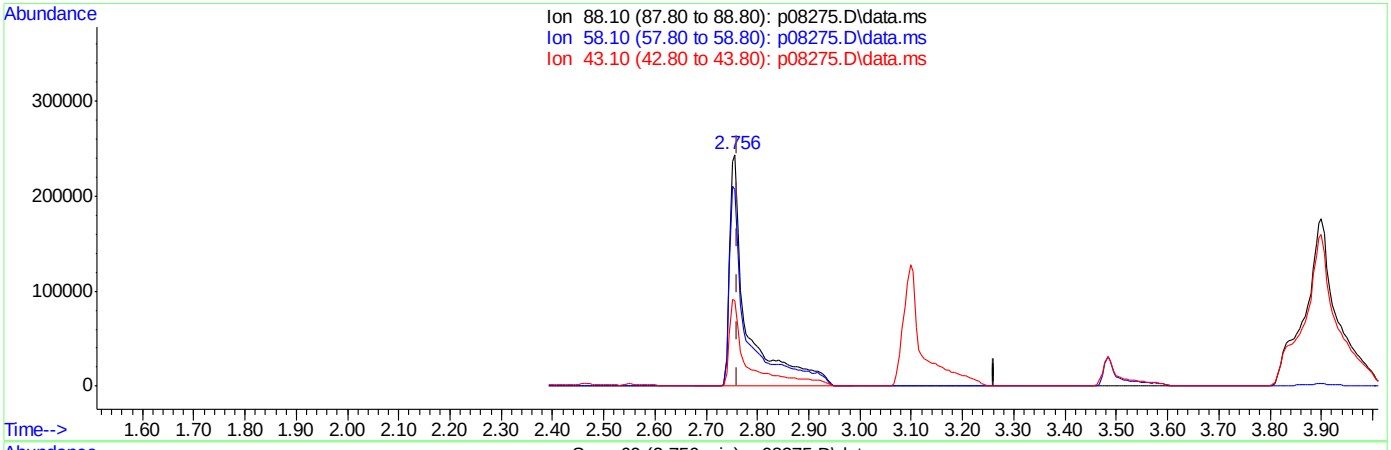
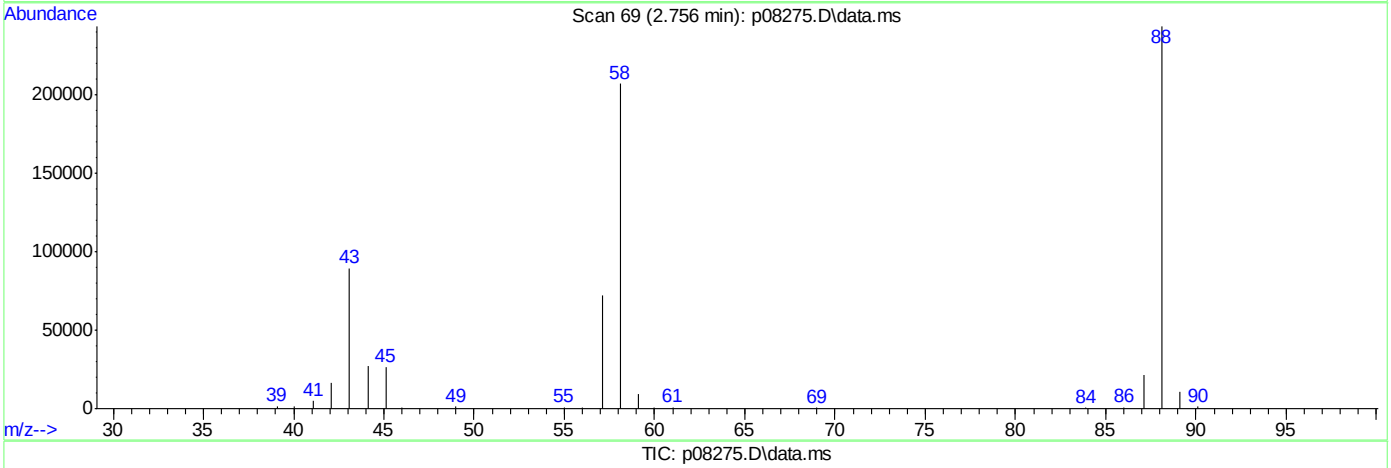




TIC: p08275.D\data.ms

(3) 1,4-Dioxane

2.756min (-0.005) 129.58ppm m

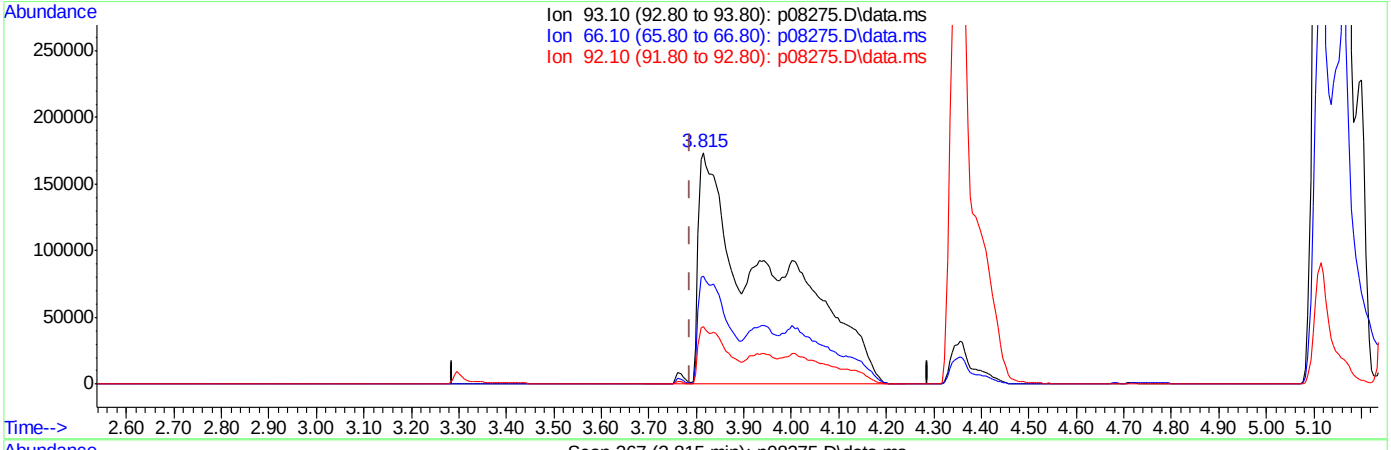
response 571305

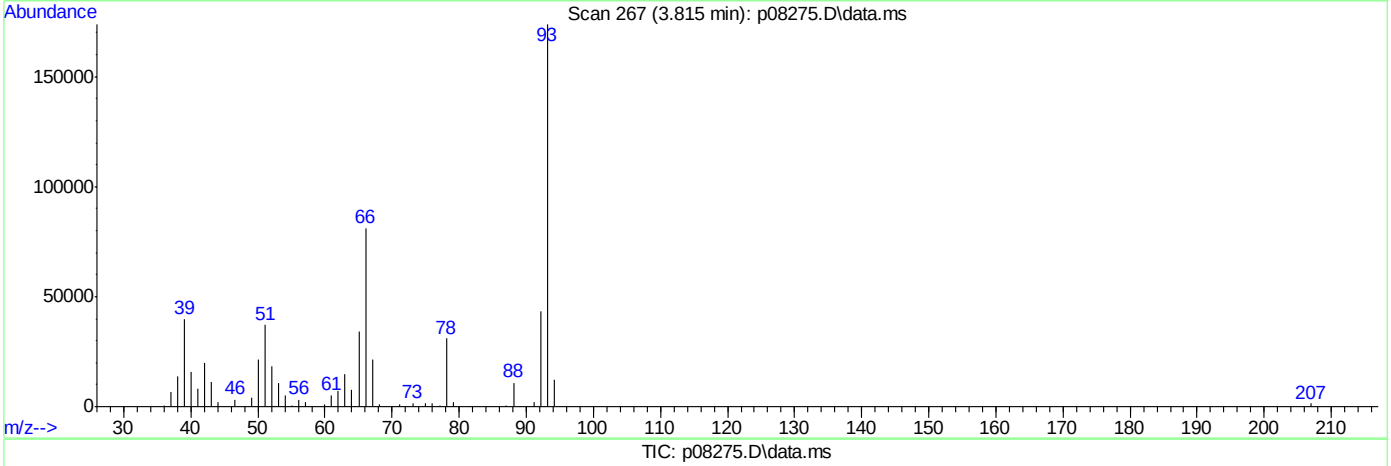
Ion	Exp%	Act%
88.10	100	100
58.10	73.00	87.05
43.10	29.90	38.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(6) 2-Picoline

3.815min (+0.027) 134.05ppm m

response 1825650

Ion	Exp%	Act%
93.10	100	100
66.10	30.20	18.36#
92.10	16.30	9.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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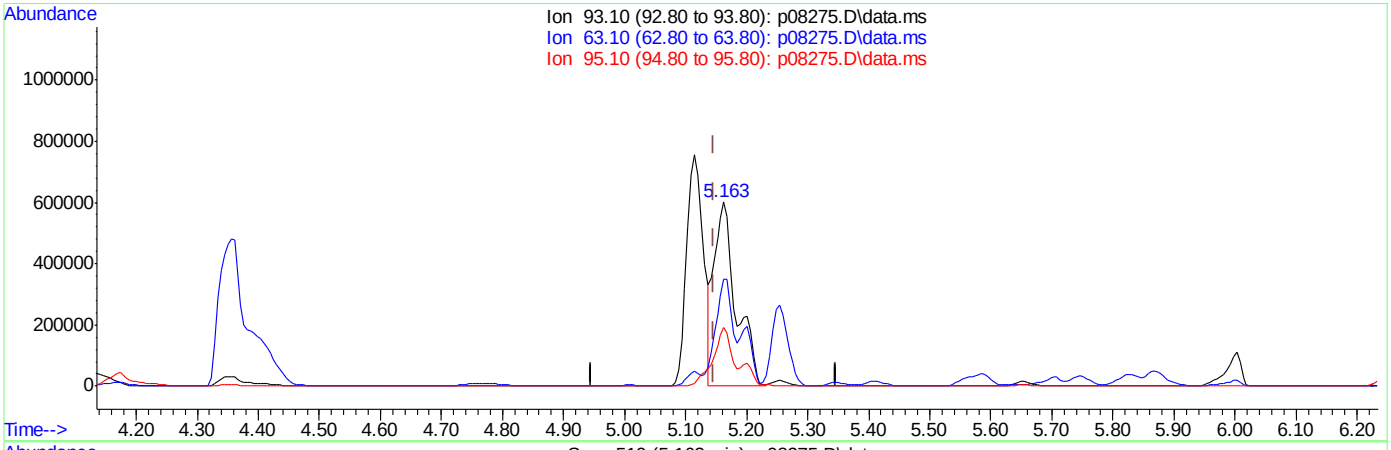
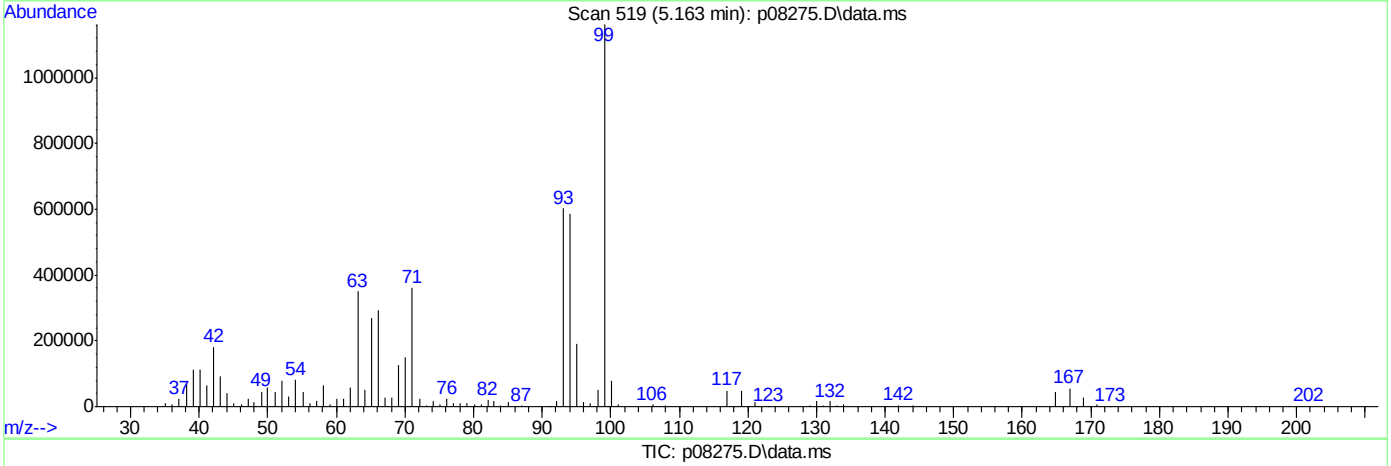




TIC: p08275.D\data.ms

(14) bis(2-Chloroethyl)ether ( )

5.163min (+0.016) 125.12ppm m

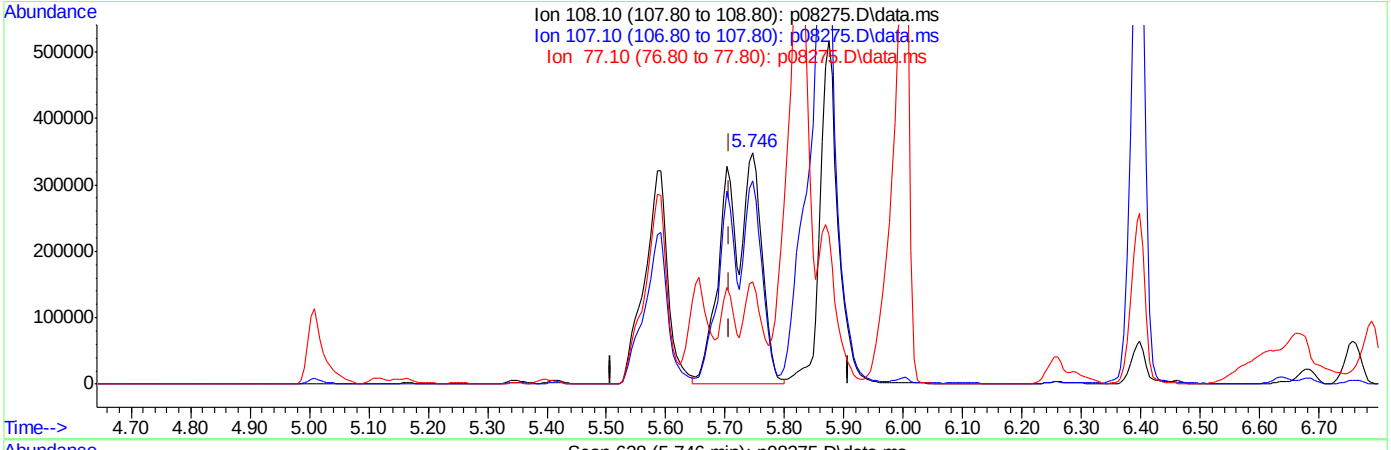
response 1539227

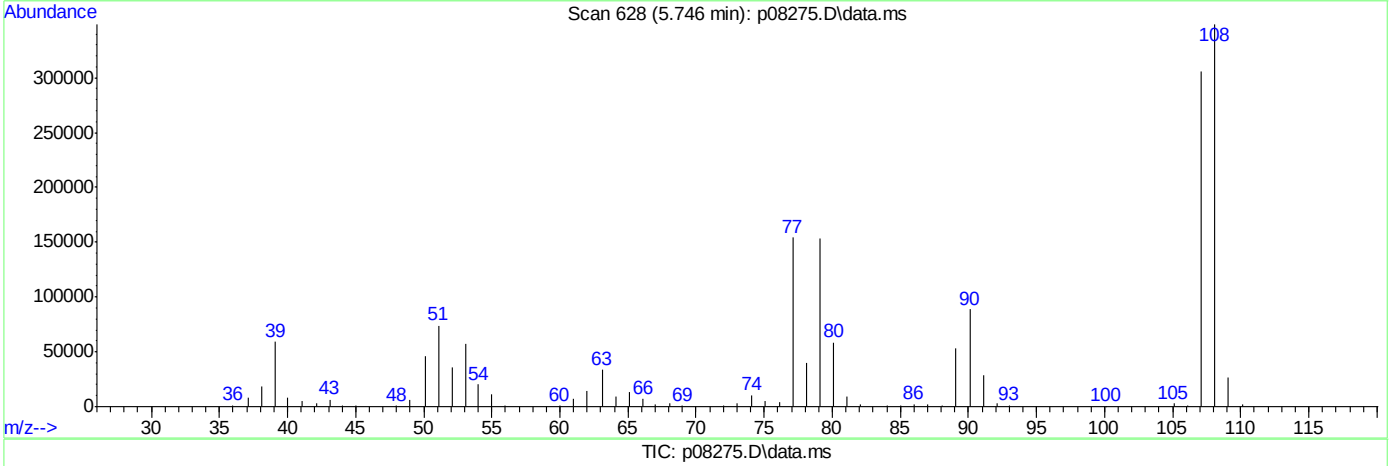
Ion	Exp%	Act%
93.10	100	100
63.10	81.00	37.31#
95.10	39.10	26.43
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
```





(23) 2-Methylphenol ( )

5.746min (+0.038) 128.56ppm m

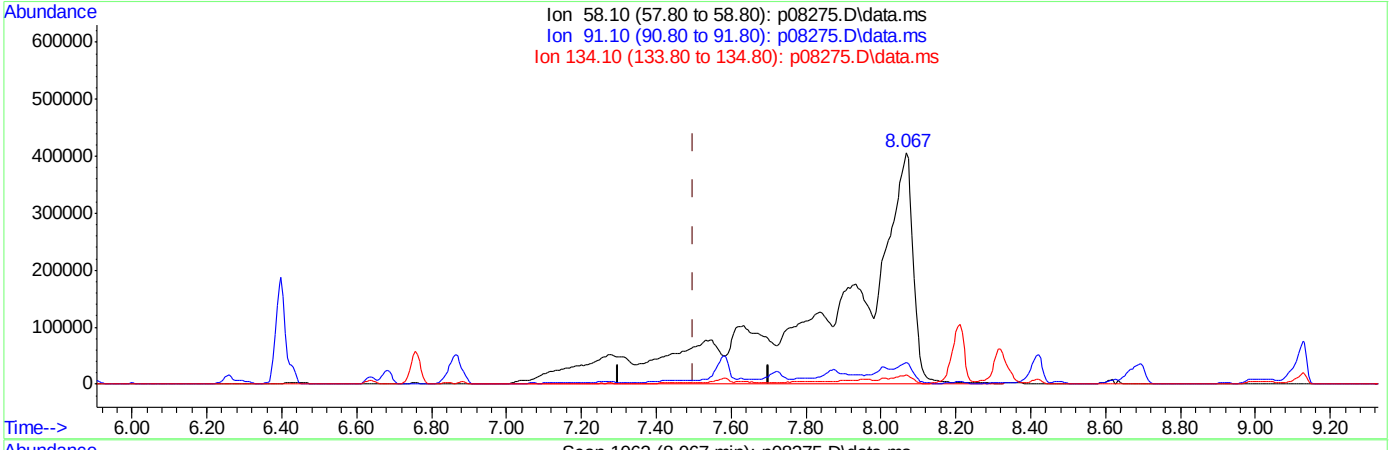
response 1453820

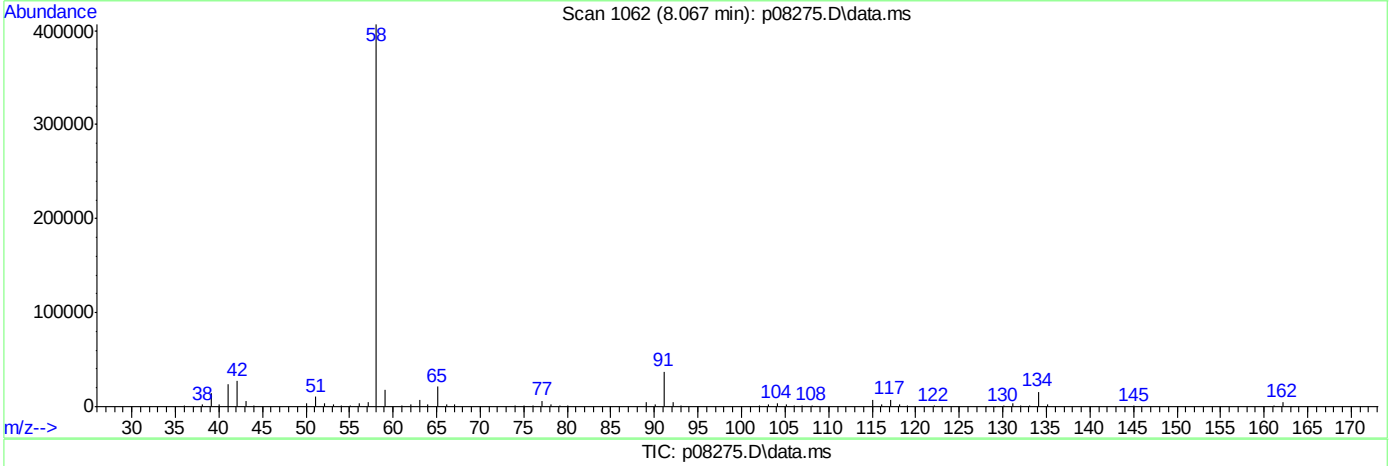
Ion	Exp%	Act%
108.10	100	100
107.10	86.50	40.25#
77.10	41.00	9.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(35) A,A-Dimethylphenethylamine

8.067min (+0.567) 130.54ppm m

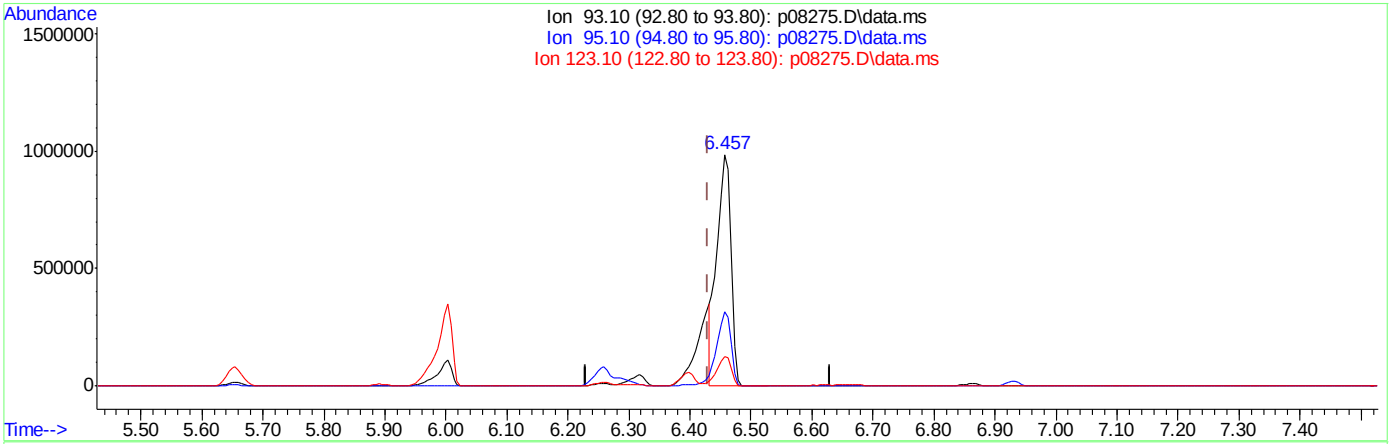
response 5892129

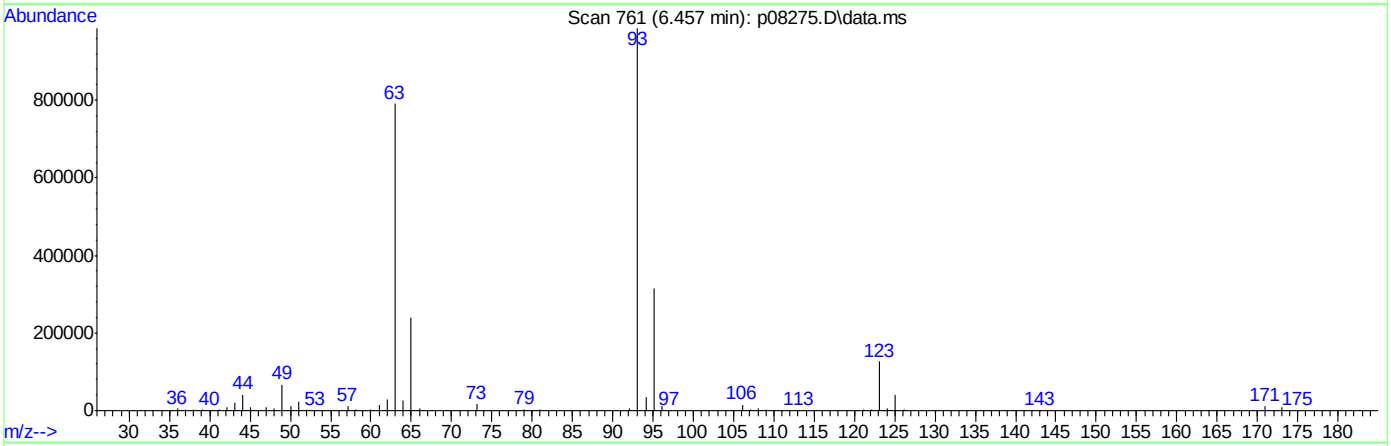
Ion	Exp%	Act%
58.10	100	100
91.10	0.00	0.00
134.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(39) bis(2-Chloroethoxy)methane

6.457min (+0.027) 104.76ppm m

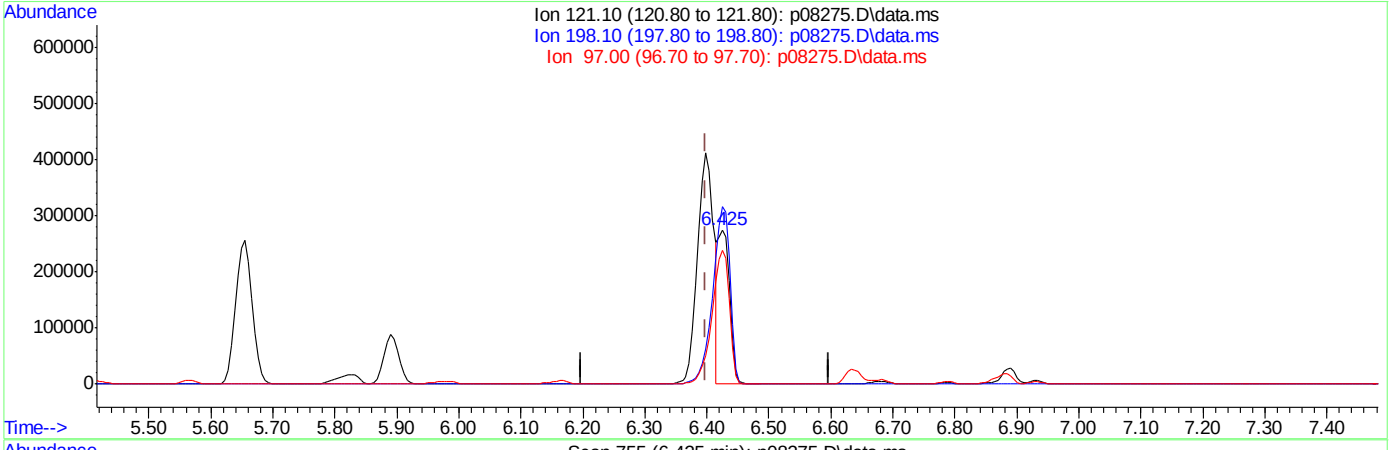
response 1587911

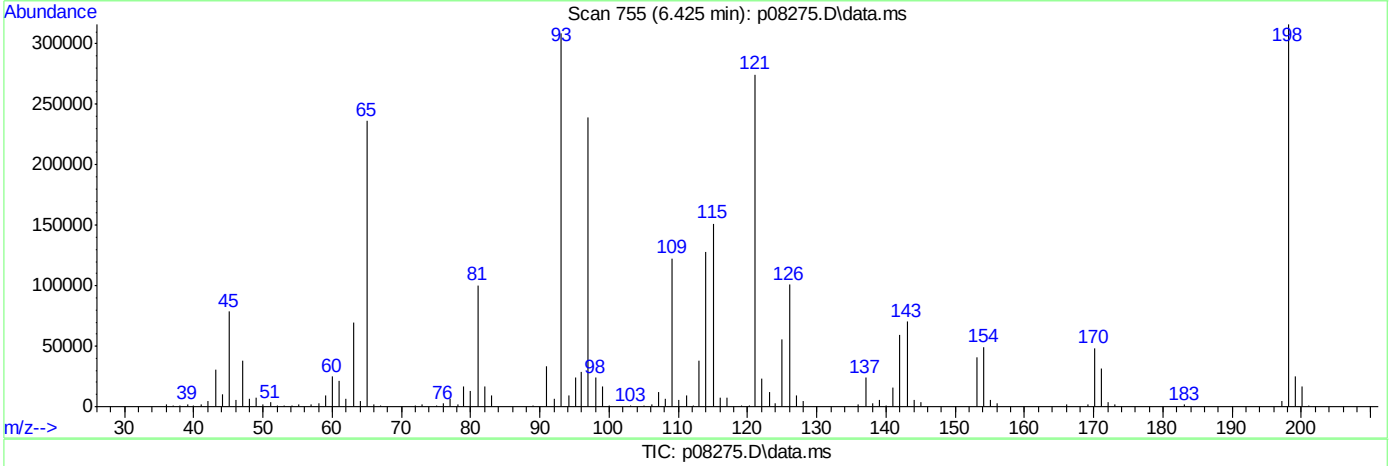
Ion	Exp%	Act%
93.10	100	100
95.10	32.80	33.10
123.10	13.50	13.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(40) O,O,O-Triethyl phosphorothioat

6.425min (+0.027) 75.44ppm m

response 351227

Ion	Exp%	Act%
121.10	100	100
198.10	121.10	0.00#
97.00	94.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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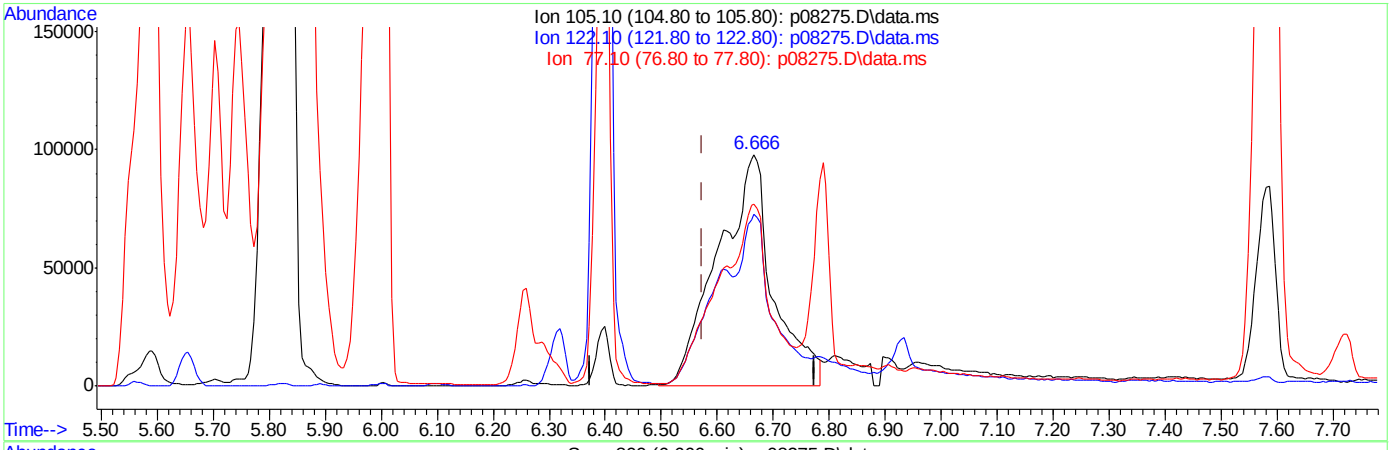

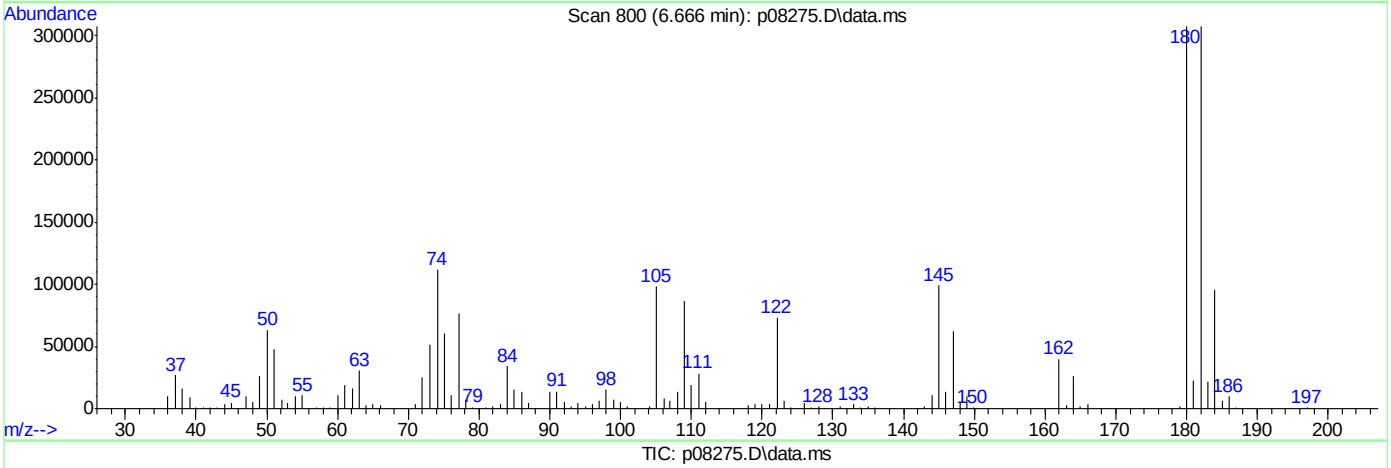

TIC: p08275.D\data.ms

(41) Benzoic Acid

6.666min (+0.091) 159.57ppm m

response 666020

Ion	Exp%	Act%
105.10	100	100
122.10	80.10	27.54#
77.10	82.40	25.73#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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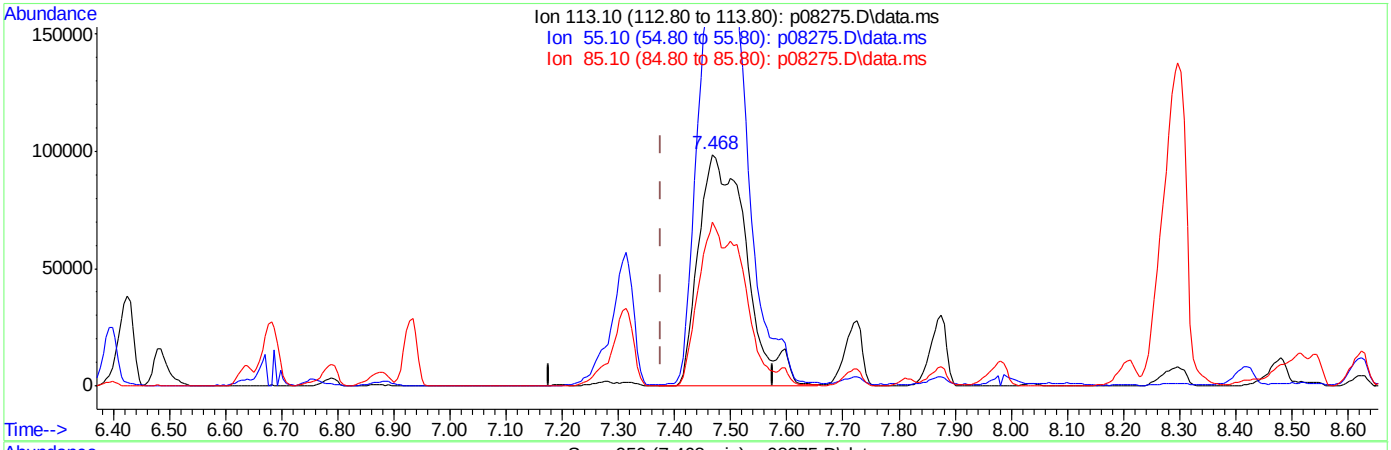

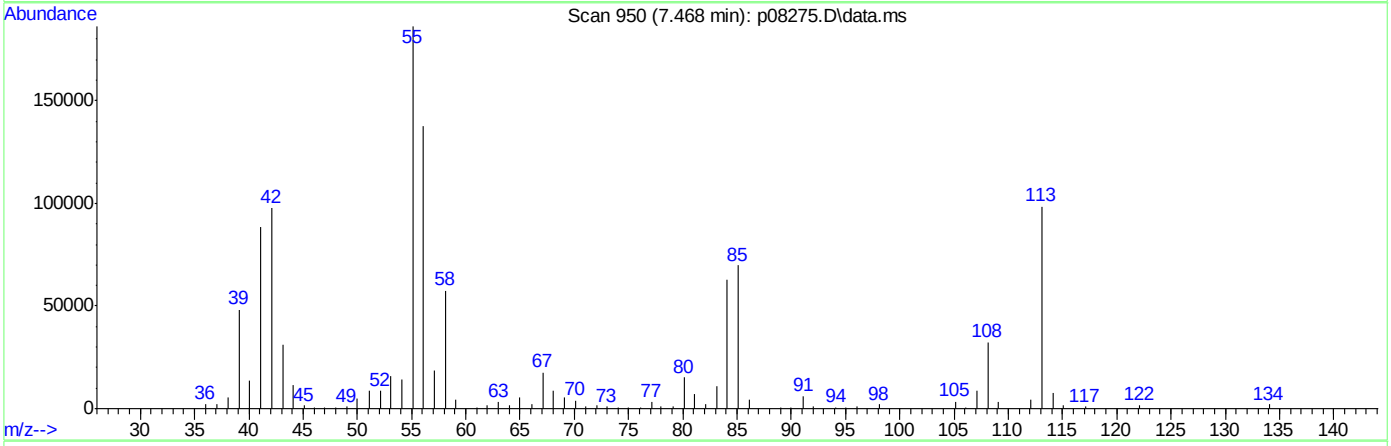

TIC: p08275.D\data.ms

(50) Caprolactam

7.468min (+0.091) 133.70ppm m

response 585036

Ion	Exp%	Act%
113.10	100	100
55.10	184.60	109.55#
85.10	69.10	37.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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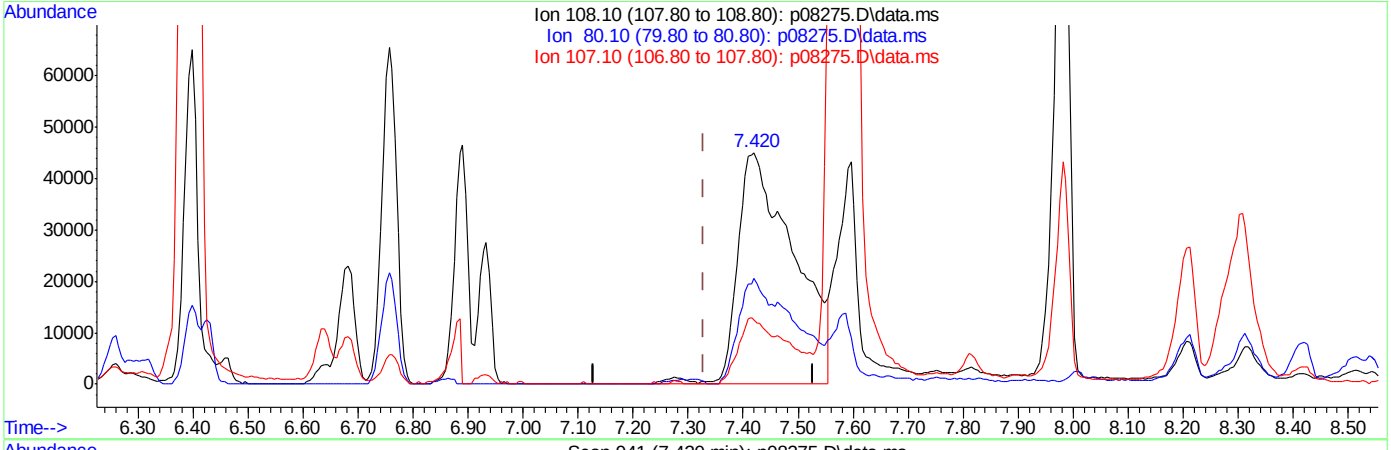

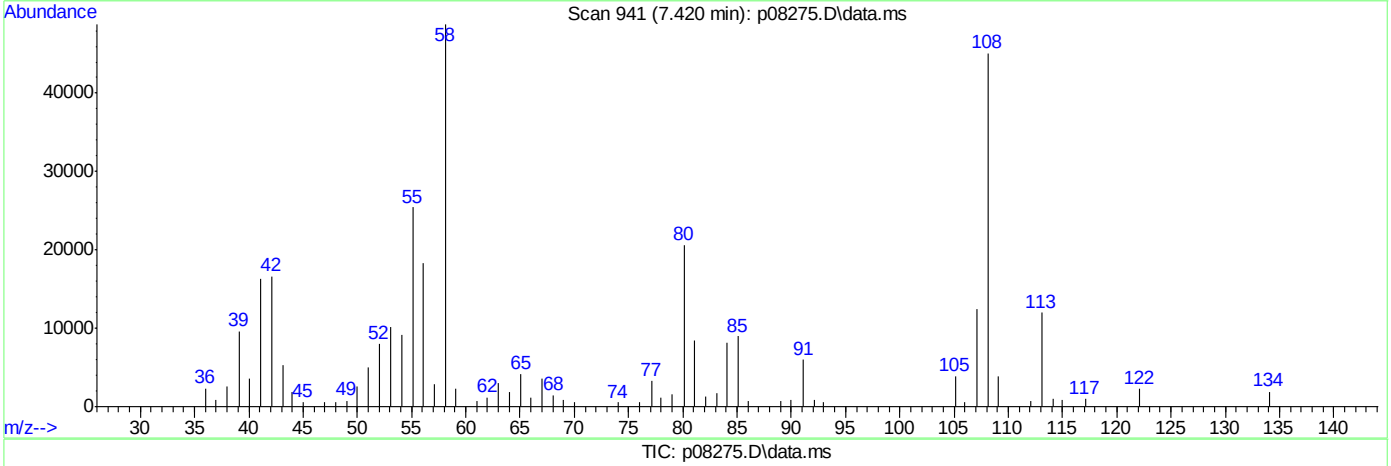

(49) p-Phenylenediamine

7.420min (+0.091) 95.56ppm m

response 320233

Ion	Exp%	Act%
108.10	100	100
80.10	43.40	25.31#
107.10	27.20	25.36
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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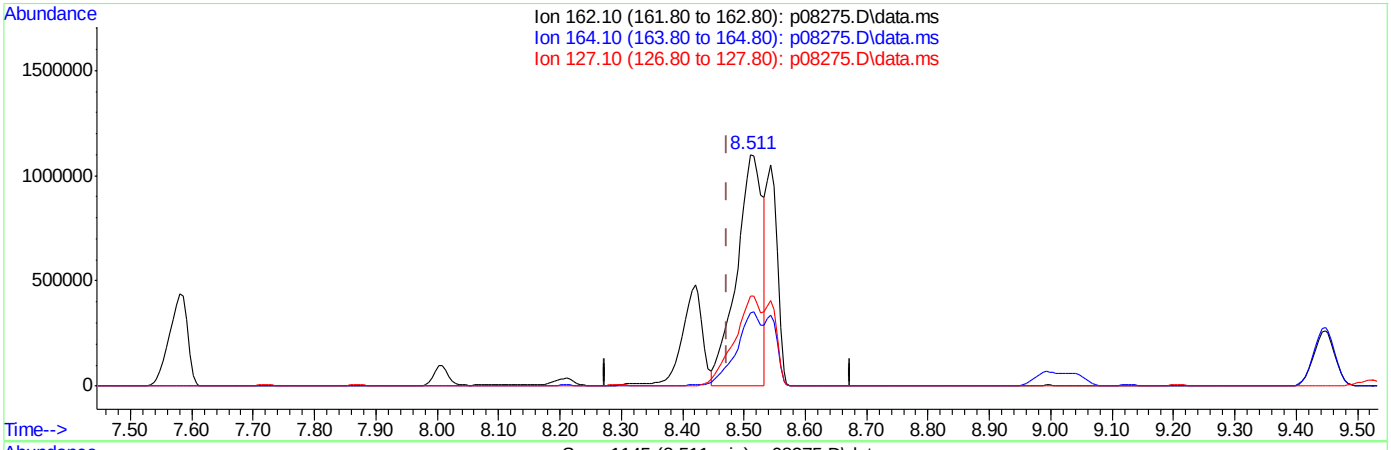

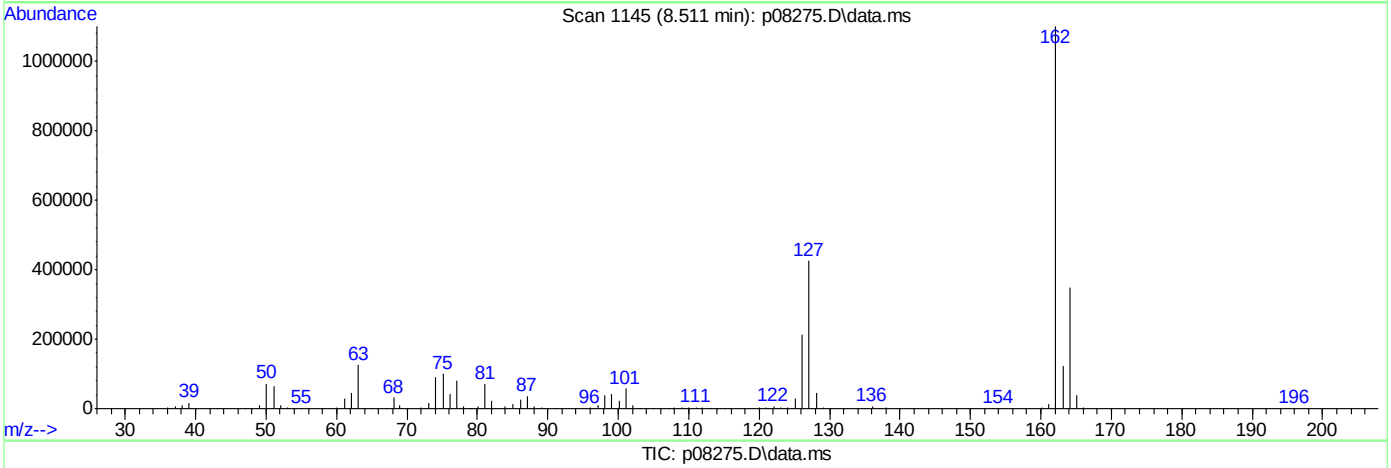

TIC: p08275.D\data.ms

(64) 2-Chloronaphthalene

8.511min (+0.037) 126.67ppm m

response 3214836

Ion	Exp%	Act%
162.10	100	100
164.10	35.10	29.97
127.10	46.40	38.83
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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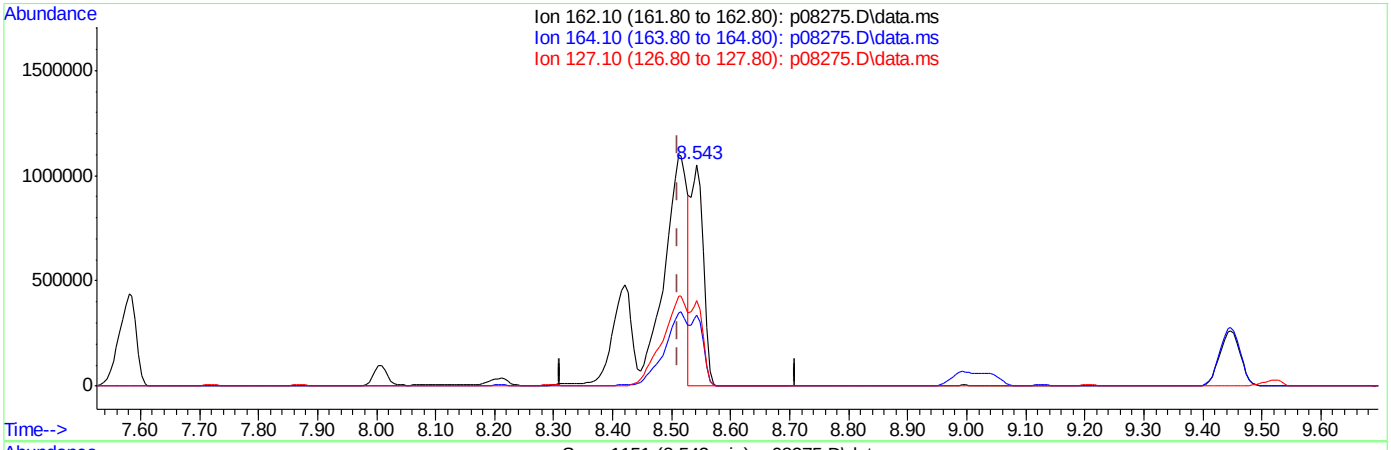
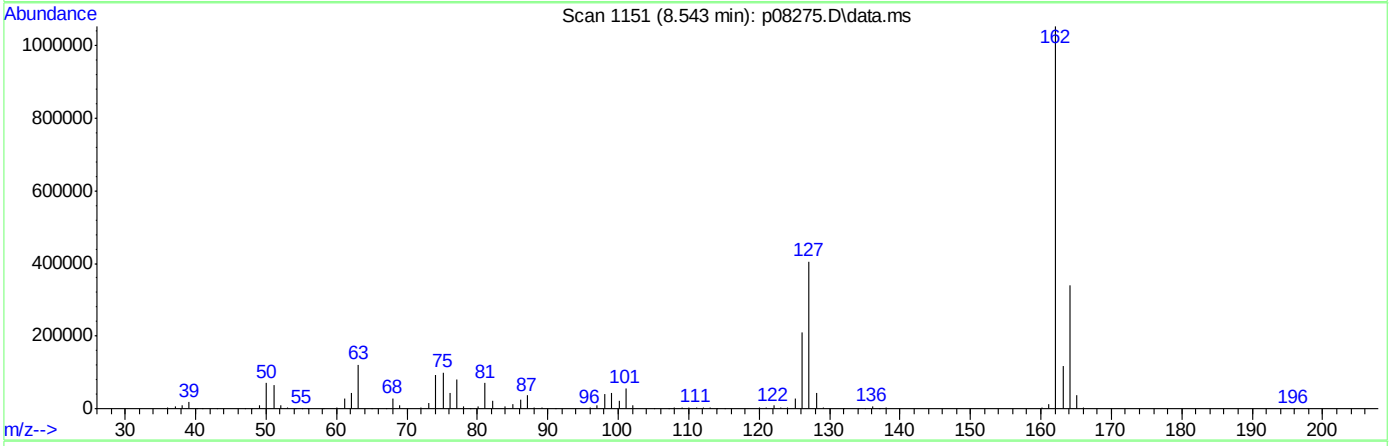




TIC: p08275.D\data.ms

(65) 1-Chloronaphthalene

8.543min (+0.032) 93.68ppm m

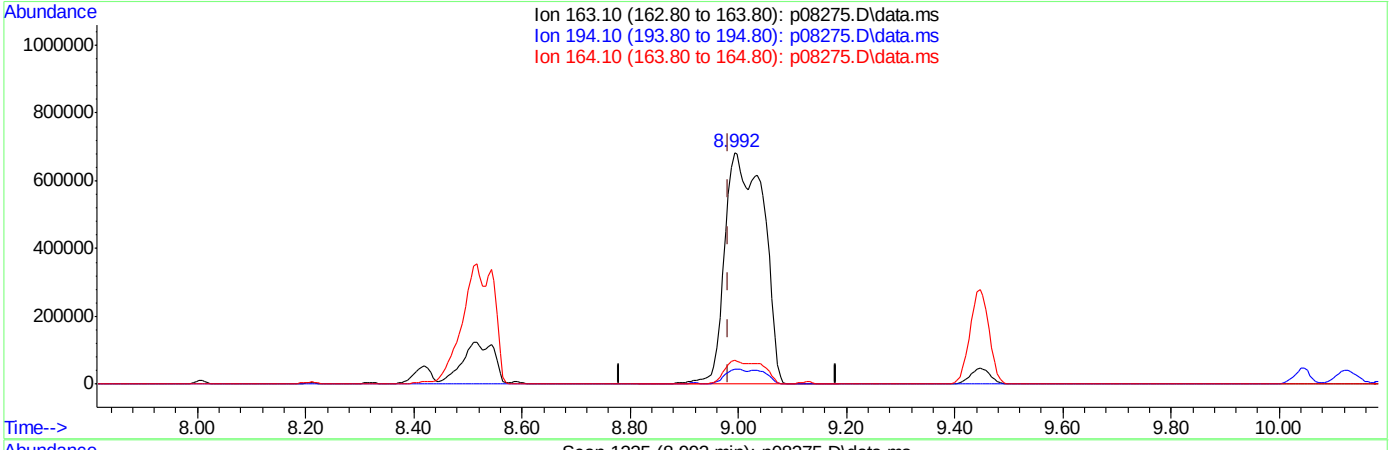
response 1568533

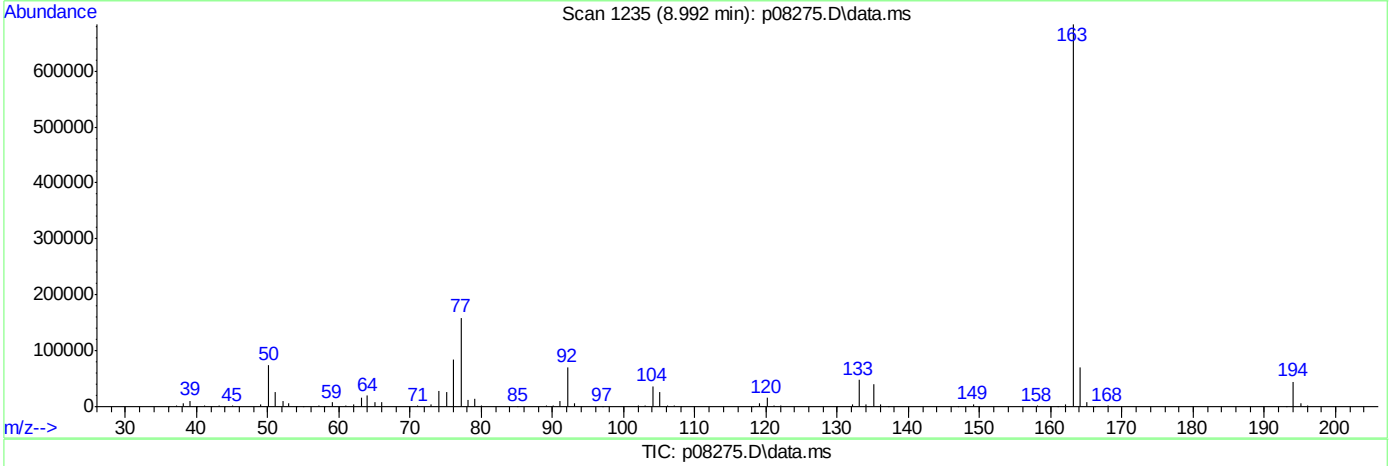
Ion	Exp%	Act%
162.10	100	100
164.10	27.70	61.43#
127.10	32.70	79.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(69) Dimethylphthalate

8.992min (+0.010) 123.65ppm m

response 3386531

Ion	Exp%	Act%
163.10	100	100
194.10	6.60	3.56
164.10	10.10	6.63
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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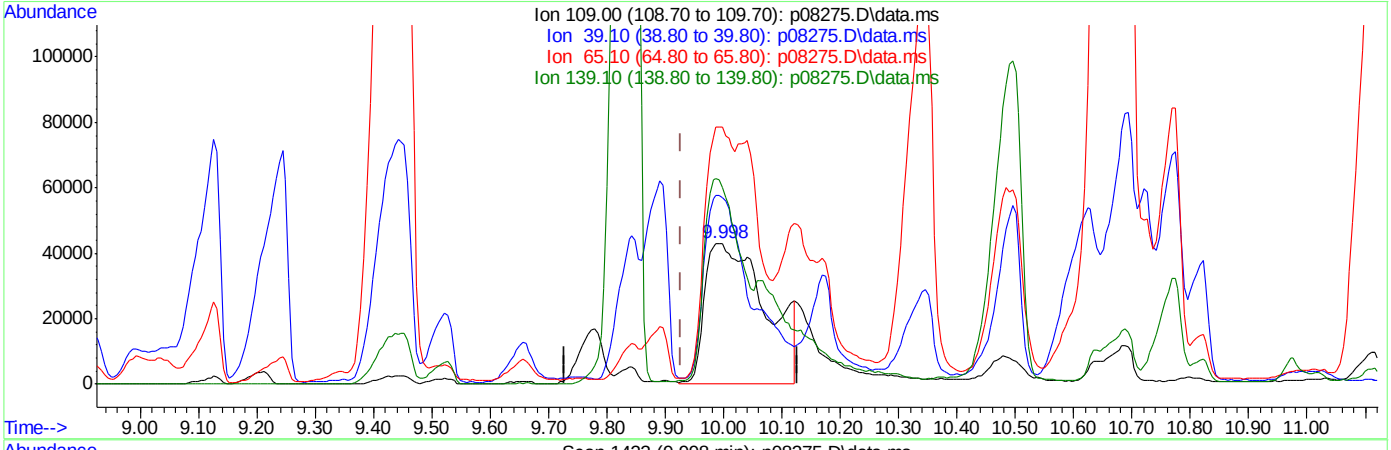
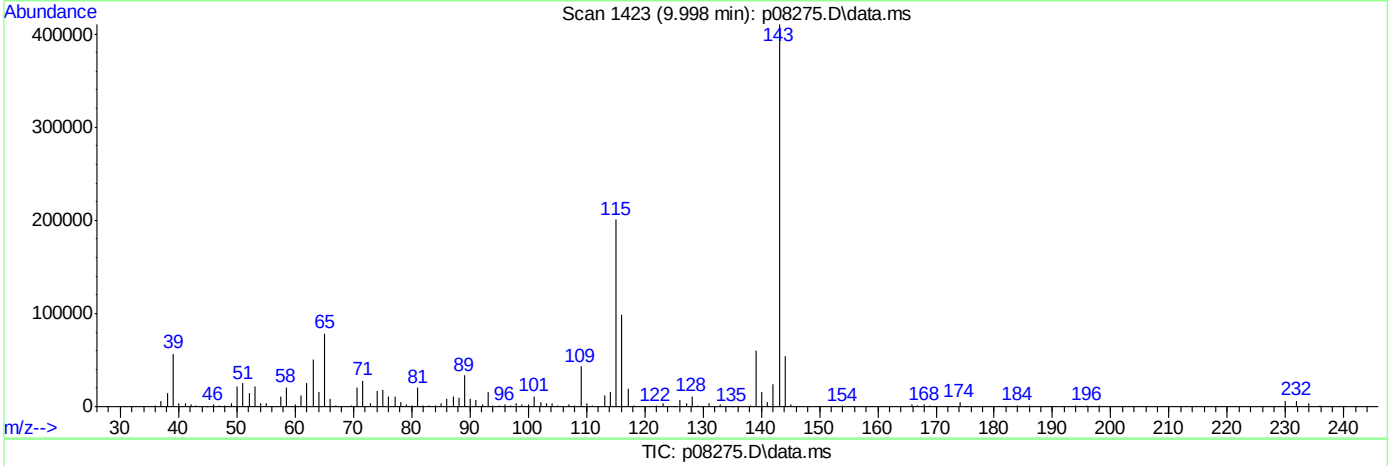




TIC: p08275.D\data.ms

(78) 4-Nitrophenol (P)

9.998min (+0.069) 133.44ppm m

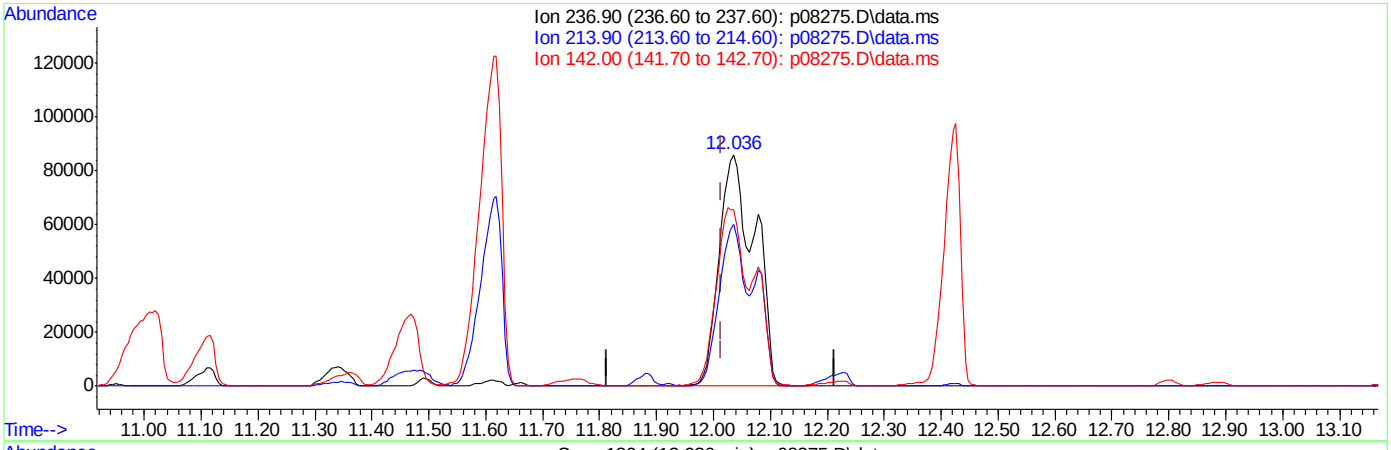
response 311614

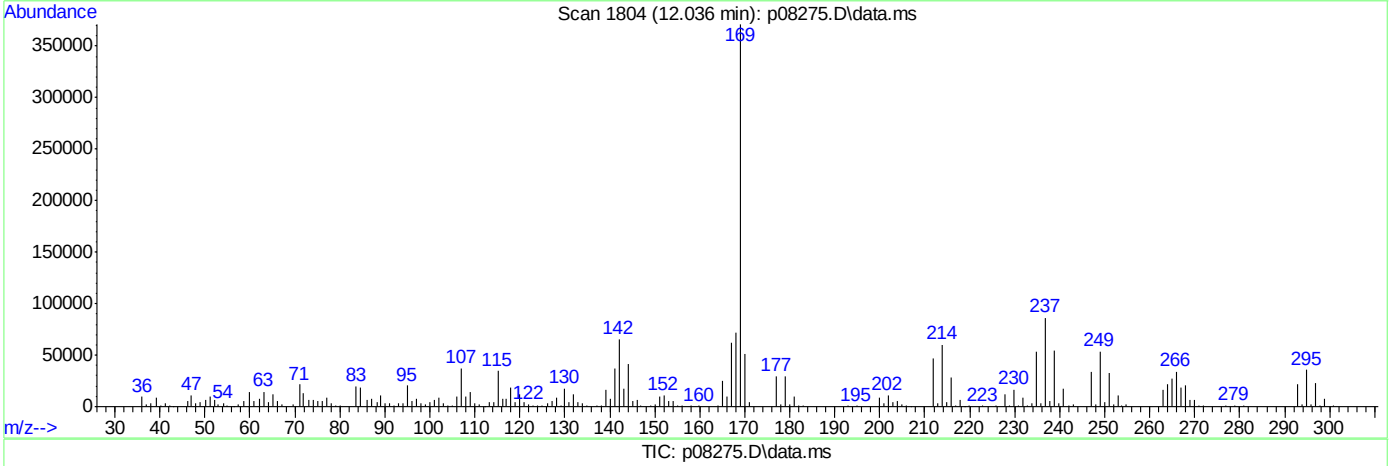
Ion	Exp%	Act%
109.00	100	100
39.10	121.40	100.13
65.10	117.20	84.36#
139.10	142.00	86.42#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(105) Pentachloronitrobenzene

12.036min (+0.022) 111.54ppm m

response 374371

Ion	Exp%	Act%
236.90	100	100
213.90	69.80	49.11#
142.00	82.80	58.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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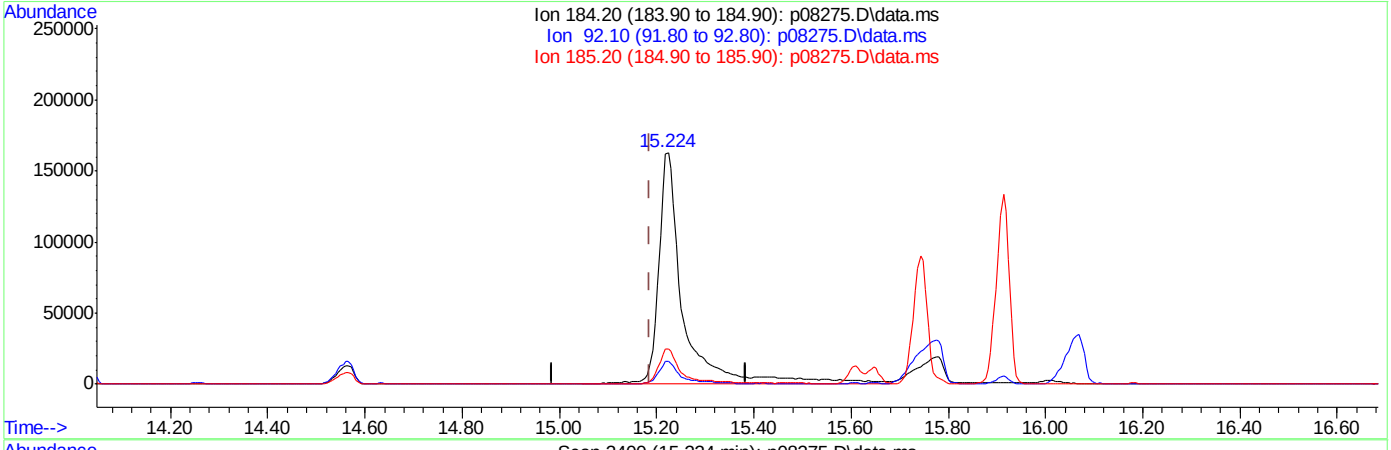
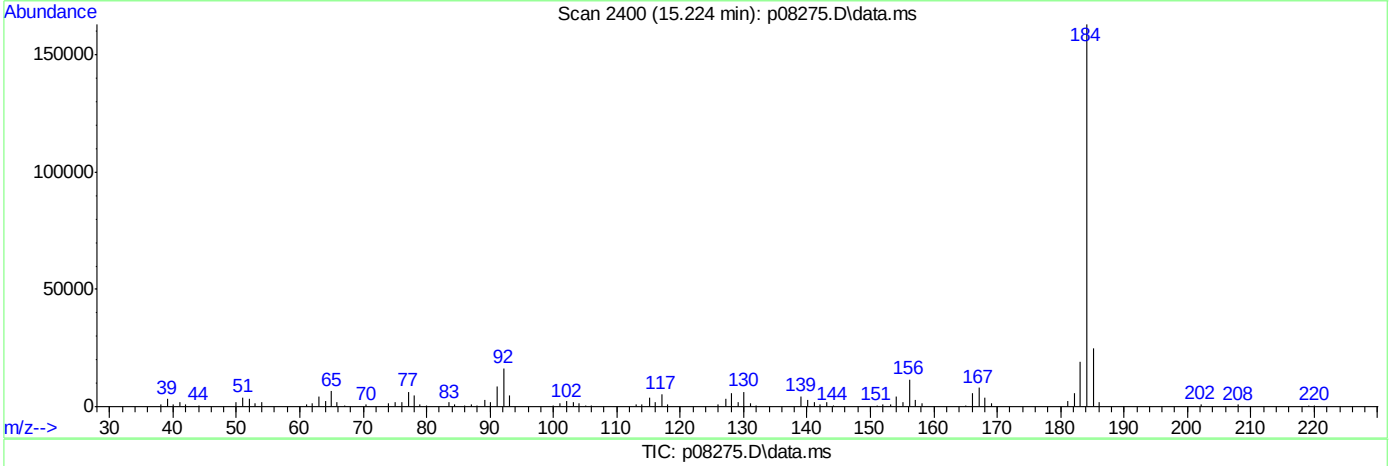




TIC: p08275.D\data.ms

(119) Benzidine

15.224min (+0.038) 106.14ppm m

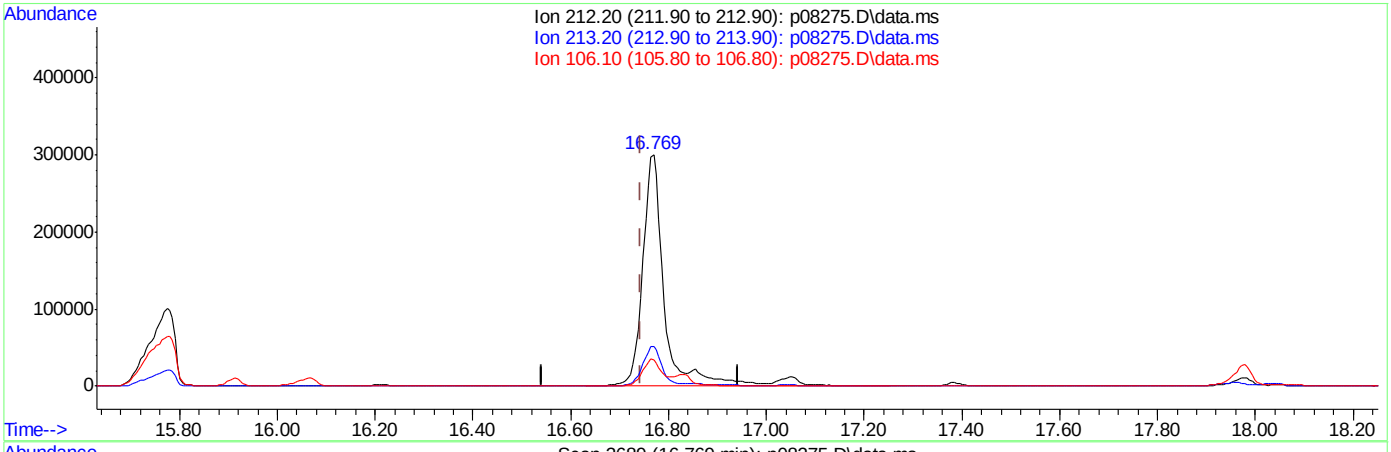
response 584745

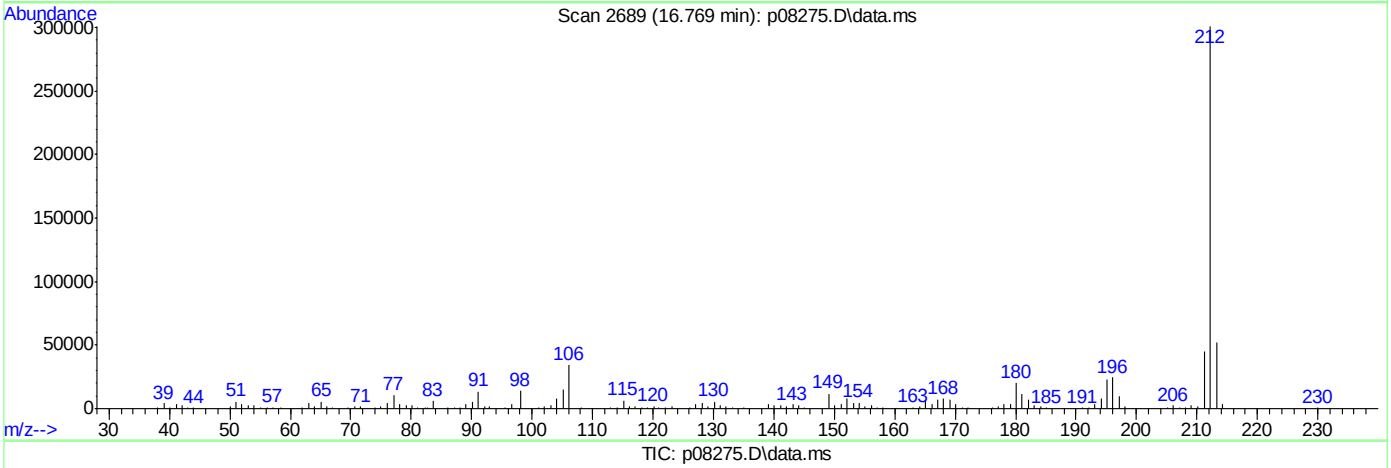
Ion	Exp%	Act%
184.20	100	100
92.10	9.90	9.04
185.20	14.40	13.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(126) 3,3'-Dimethylbenzidine

16.769min (+0.026) 109.46ppm m

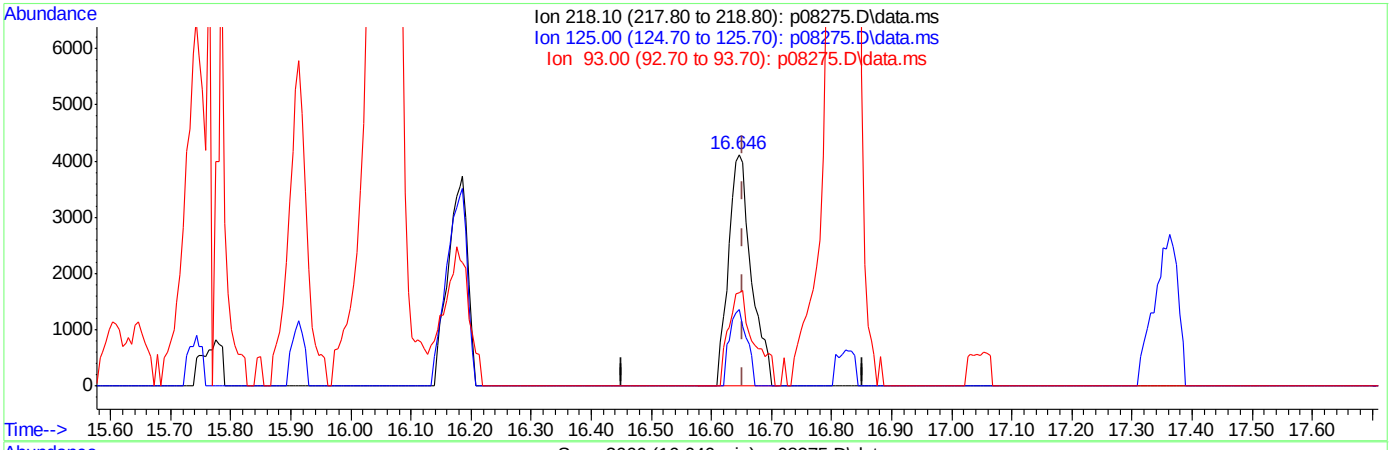
response 962275

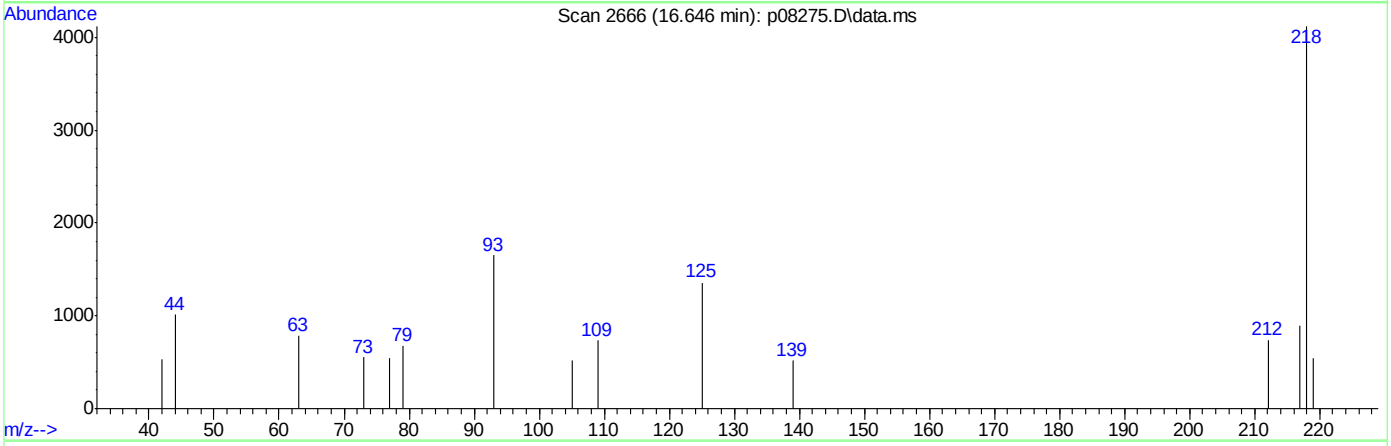
Ion	Exp%	Act%
212.20	100	100
213.20	16.90	14.91
106.10	11.20	10.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(127) Famphur

16.646min (-0.006) 6.81ppm m

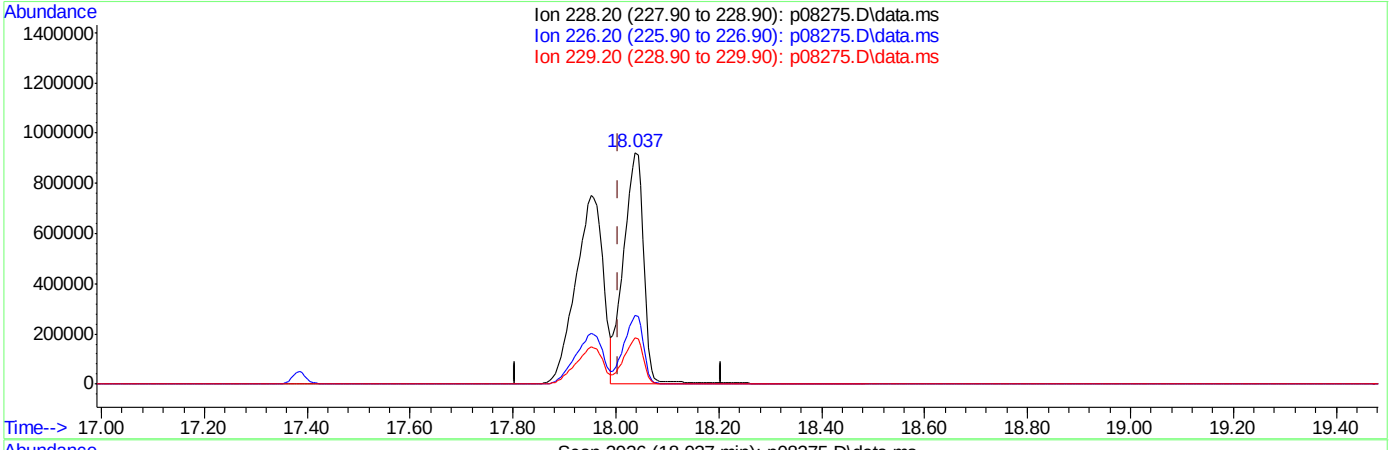
response 10782

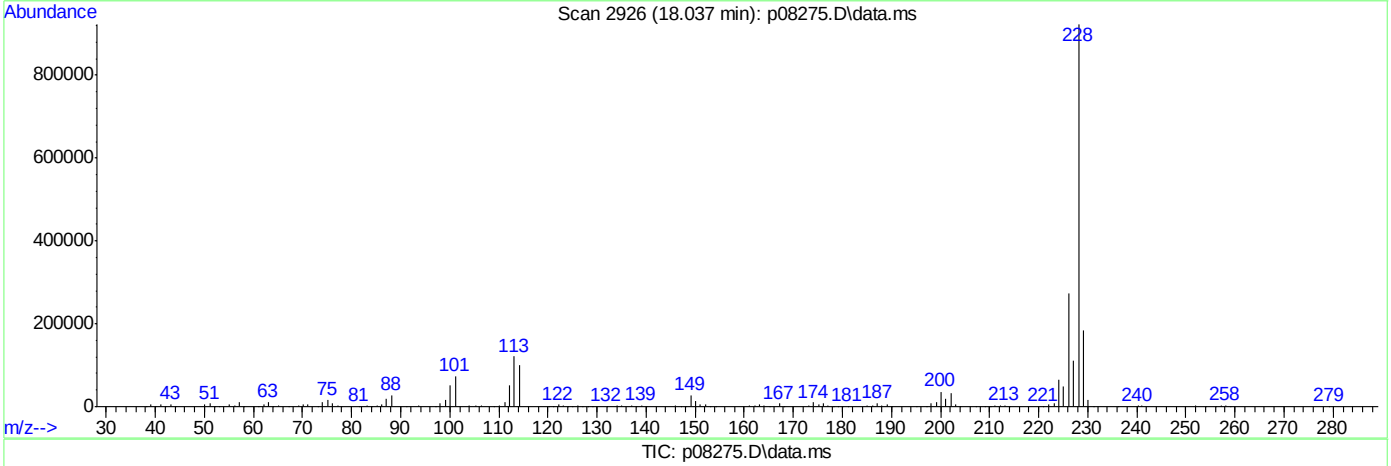
Ion	Exp%	Act%
218.10	100	100
125.00	0.00	0.00
93.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On : 22 Jan 2010 1:15 pm
Operator : garyj
Sample : ic393-125
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration





TIC: p08275.D\data.ms

(132) Chrysene

18.037min (+0.032) 121.92ppm m

response 2595111

Ion	Exp%	Act%
228.20	100	100
226.20	29.90	27.91
229.20	19.70	18.11
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08275.D
Acq On    : 22 Jan 2010   1:15 pm
Operator  : garyj
Sample    : ic393-125
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Jan 22 14:45:18 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:42:28 2010
Response via : Initial Calibration
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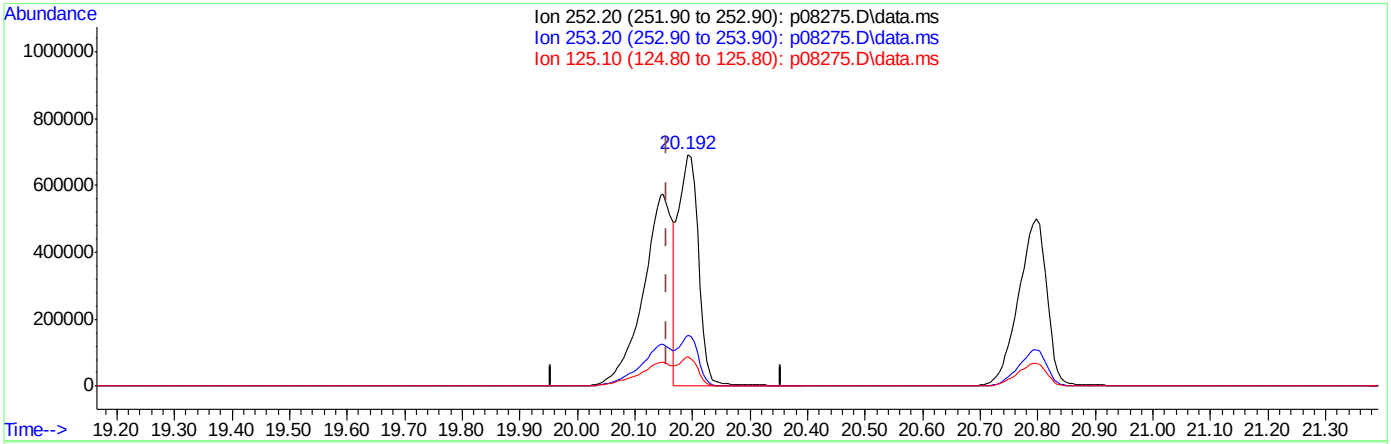
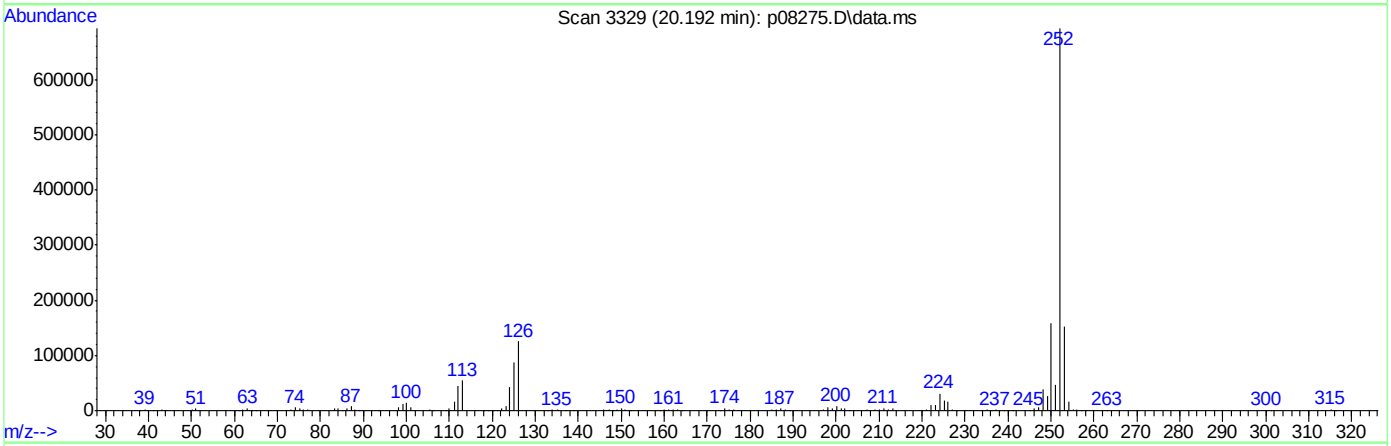




TIC: p08275.D\data.ms

(137) Benzo[k]fluoranthene

20.192min (+0.037) 115.54ppm m

response 1735762

Ion	Exp%	Act%
252.20	100	100
253.20	19.40	17.40
125.10	12.70	9.90
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
01/26/10 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On : 22 Jan 2010 1:49 pm
Operator : garyj
Sample : icv393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.393	152	293863	40.00	ppm	0.00
31) Naphthalene-d8	6.741	136	1061203	40.00	ppm	0.00
57) Acenaphthene-d10	9.426	164	669326	40.00	ppm	0.00
88) Phenanthrene-d10	12.325	188	1077671	40.00	ppm	-0.01
118) Chrysene-d12	17.946	240	833406	40.00	ppm	0.00
134) Perylene-d12	20.888	264	544717	40.00	ppm	0.01
System Monitoring Compounds						
13) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 66		Recovery = 0.00%#			
15) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 53		Recovery = 0.00%#			
32) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 29 - 115		Recovery = 0.00%#			
61) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 34 - 113		Recovery = 0.00%#			
93) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 32 - 128		Recovery = 0.00%#			
121) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 145		Recovery = 0.00%#			
Target Compounds						Qvalue
4) N-nitrosodimethylamine	3.125	42	293363	49.37	ppm	99
5) Pyridine	3.130	79	532048m	43.53	ppm	
12) Aniline	5.104	93	569278	37.68	ppm	93
14) bis(2-Chloroethyl)ether	5.147	93	641370	49.73	ppm	96
16) Phenol	5.157	94	734509	51.39	ppm #	99
17) 2-Chlorophenol	5.248	128	537681	48.06	ppm	100
18) 1,3-Dichlorobenzene	5.345	146	627938	45.83	ppm	100
19) 1,4-Dichlorobenzene	5.409	146	600347	46.87	ppm	99
20) 1,2-Dichlorobenzene	5.553	146	571564	47.71	ppm	100
21) Benzyl alcohol	5.537	108	351995	45.91	ppm	99
22) bis(2-chloroisopropyl)...	5.639	45	1111878	46.66	ppm	99
23) 2-Methylphenol	5.676	108	519252	43.79	ppm	98
28) Hexachloroethane	5.885	117	244231	48.09	ppm	99
29) N-Nitroso-di-n-propyla...	5.789	70	461145	55.00	ppm #	58
30) 3&4-Methylphenol	5.821	108	975501	103.76	ppm #	47
33) Nitrobenzene	5.954	77	627246	49.55	ppm	97
36) Isophorone	6.211	82	1174564	45.05	ppm	100
37) 2-Nitrophenol	6.297	139	299228	49.71	ppm	99
38) 2,4-Dimethylphenol	6.361	107	527791	45.75	ppm	98
39) bis(2-Chloroethoxy)met...	6.425	93	672268	46.73	ppm	99
41) Benzoic Acid	6.559	105	207130	45.08	ppm	98
42) 2,4-Dichlorophenol	6.612	162	447988	49.63	ppm	100
43) 1,2,4-Trichlorobenzene	6.671	180	469487	46.06	ppm	100
44) Naphthalene	6.767	128	1405318	47.18	ppm	100
45) 4-Chloroaniline	6.826	127	228687m	18.64	ppm	
48) Hexachlorobutadiene	6.922	225	302278	48.20	ppm	99
52) 4-Chloro-3-methylphenol	7.527	107	486461	51.58	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On : 22 Jan 2010 1:49 pm
Operator : garyj
Sample : icv393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration

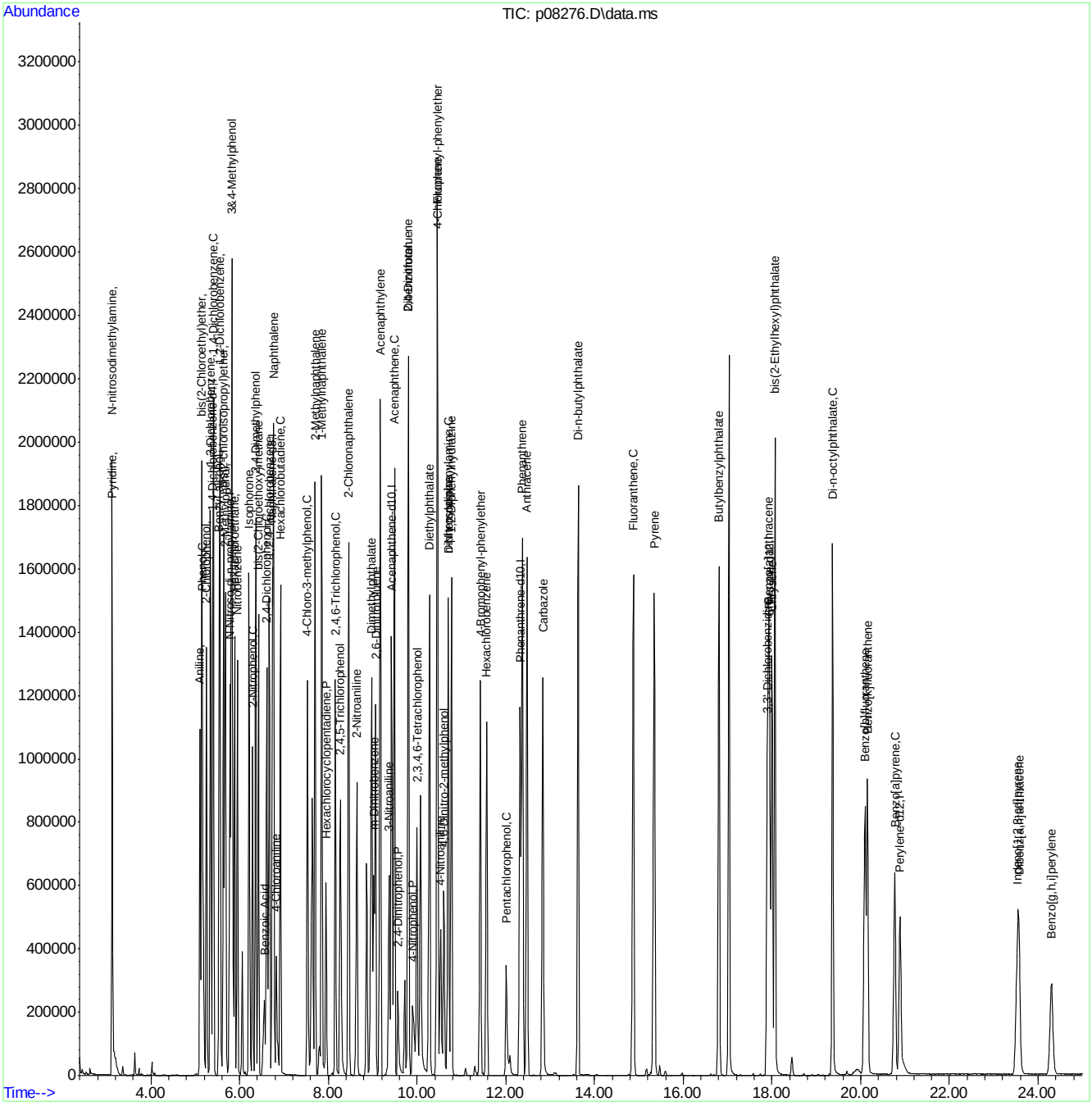
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54)	2-Methylnaphthalene	7.703	142	958640	47.37	ppm		99
55)	1-Methylnaphthalene	7.853	142	927988	46.89	ppm		100
58)	Hexachlorocyclopentadiene	7.949	237	153068	55.49	ppm	#	95
59)	2,4,6-Trichlorophenol	8.158	196	311982	47.60	ppm		100
60)	2,4,5-Trichlorophenol	8.270	196	324529	54.64	ppm		99
64)	2-Chloronaphthalene	8.458	162	940846	38.14	ppm		90
66)	2-Nitroaniline	8.645	65	341143	46.06	ppm		98
68)	Acenaphthylene	9.174	152	1508490	47.59	ppm		100
69)	Dimethylphthalate	8.976	163	1197591	44.99	ppm		100
70)	m-Dinitrobenzene	9.024	168	189280	47.28	ppm		98
71)	2,6-Dinitrotoluene	9.067	165	281136	47.28	ppm		98
72)	Acenaphthene	9.490	153	944983	46.26	ppm		100
73)	3-Nitroaniline	9.372	138	204401	36.54	ppm		99
74)	2,4-Dinitrophenol	9.570	184	98976m	39.55	ppm		
75)	Dibenzofuran	9.805	168	1203191	46.29	ppm		99
77)	2,4-Dinitrotoluene	9.805	165	320554	44.22	ppm		100
78)	4-Nitrophenol	9.907	109	102174m	43.22	ppm		
81)	2,3,4,6-Tetrachlorophenol	9.998	232	216566	48.44	ppm		98
82)	Fluorene	10.453	166	988425	48.05	ppm		99
83)	4-Chlorophenyl-phenyle...	10.463	204	480006	46.24	ppm		99
84)	Diethylphthalate	10.281	149	1181755	46.26	ppm		100
87)	4-Nitroaniline	10.533	138	232629m	43.31	ppm		
89)	4,6-Dinitro-2-methylph...	10.602	198	177367	43.75	ppm		98
90)	n-Nitrosodiphenylamine	10.704	169	837641	40.86	ppm		100
91)	1,2-Diphenylhydrazine	10.773	77	1229528	46.57	ppm		100
92)	Diphenylamine	10.704	169	837641	40.86	ppm		100
98)	4-Bromophenyl-phenylether	11.426	248	312371	48.83	ppm		100
100)	Hexachlorobenzene	11.570	284	307489	48.58	ppm		100
104)	Pentachlorophenol	12.014	266	112119	49.86	ppm		98
107)	Phenanthrene	12.373	178	1477177	51.50	ppm		100
108)	Anthracene	12.480	178	1491975	48.33	ppm		100
110)	Carbazole	12.838	167	1293033	46.43	ppm		99
112)	Di-n-butylphthalate	13.635	149	1965767	50.18	ppm		100
117)	Fluoranthene	14.876	202	1608051	50.55	ppm		100
120)	Pyrene	15.347	202	1607332	45.74	ppm		99
128)	Butylbenzylphthalate	16.807	149	804944	46.91	ppm		98
130)	3,3'-Dichlorobenzidine	17.893	252	257809	37.81	ppm		100
131)	Benzo[a]anthracene	17.919	228	1235784	48.27	ppm		100
132)	Chrysene	17.999	228	1156909	47.75	ppm		98
133)	bis(2-Ethylhexyl)phtha...	18.069	149	1030866	45.21	ppm		100
135)	Di-n-octylphthalate	19.369	149	1595414	46.37	ppm		100
136)	Benzo[b]fluoranthene	20.096	252	956763	47.44	ppm		96
137)	Benzo[k]fluoranthene	20.155	252	907676	50.61	ppm		97
140)	Benzo[a]pyrene	20.770	252	750287	44.53	ppm		100
142)	Indeno[1,2,3-cd]pyrene	23.535	276	639512	47.72	ppm		99
143)	Dibenz[a,h]anthracene	23.567	278	536988	47.71	ppm		97
144)	Benzo[g,h,i]perylene	24.306	276	508502	47.06	ppm		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On : 22 Jan 2010 1:49 pm
Operator : garyj
Sample : icv393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

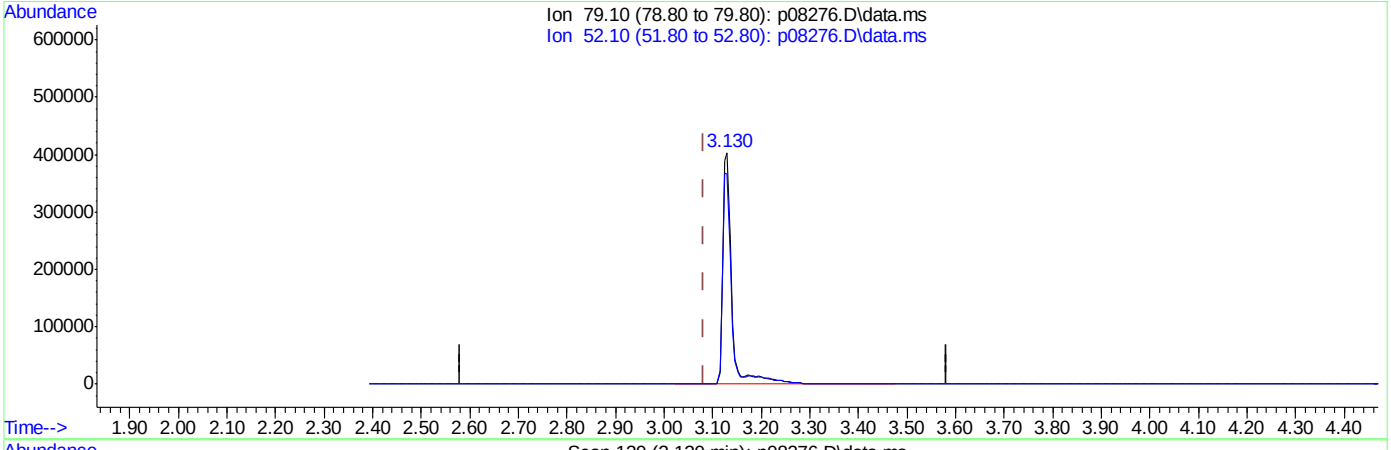
Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration

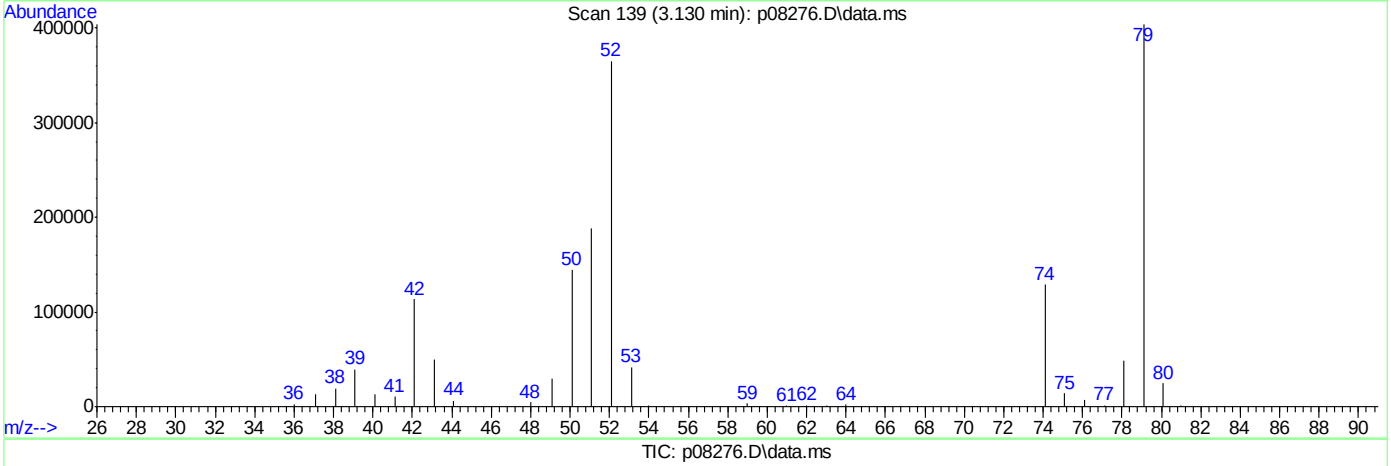


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On    : 22 Jan 2010   1:49 pm
Operator  : garyj
Sample    : icv393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration
```





(5) Pyridine ( )

3.130min (+0.048) 43.53ppm m

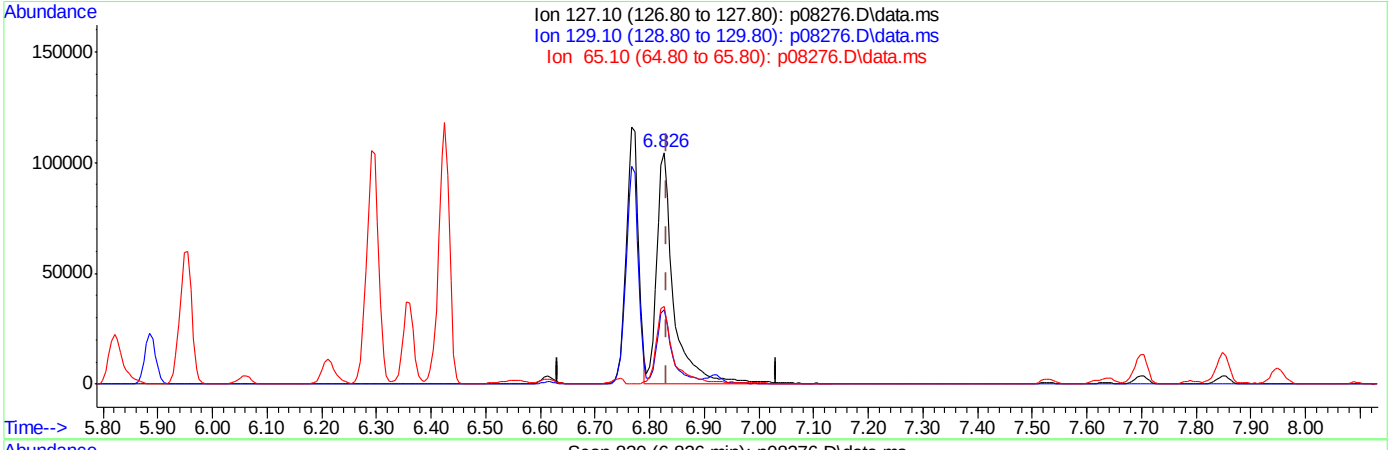
response 532048

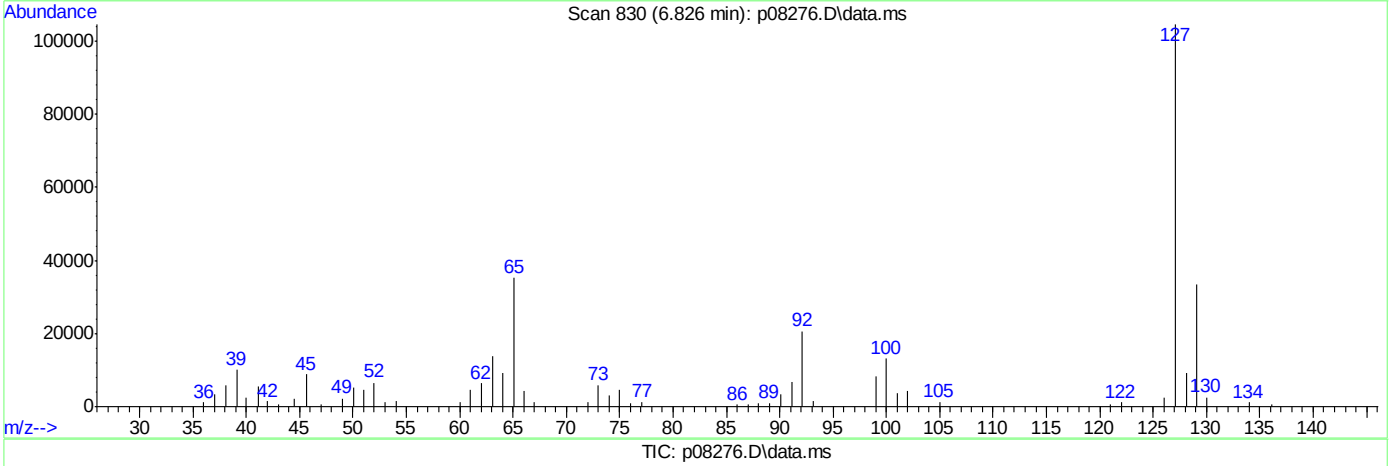
Ion	Exp%	Act%
79.10	100	100
52.10	91.70	81.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On    : 22 Jan 2010   1:49 pm
Operator  : garyj
Sample    : icv393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration
```





TIC: p08276.D\data.ms

(45) 4-Chloroaniline

6.826min (-0.006) 18.64ppm m

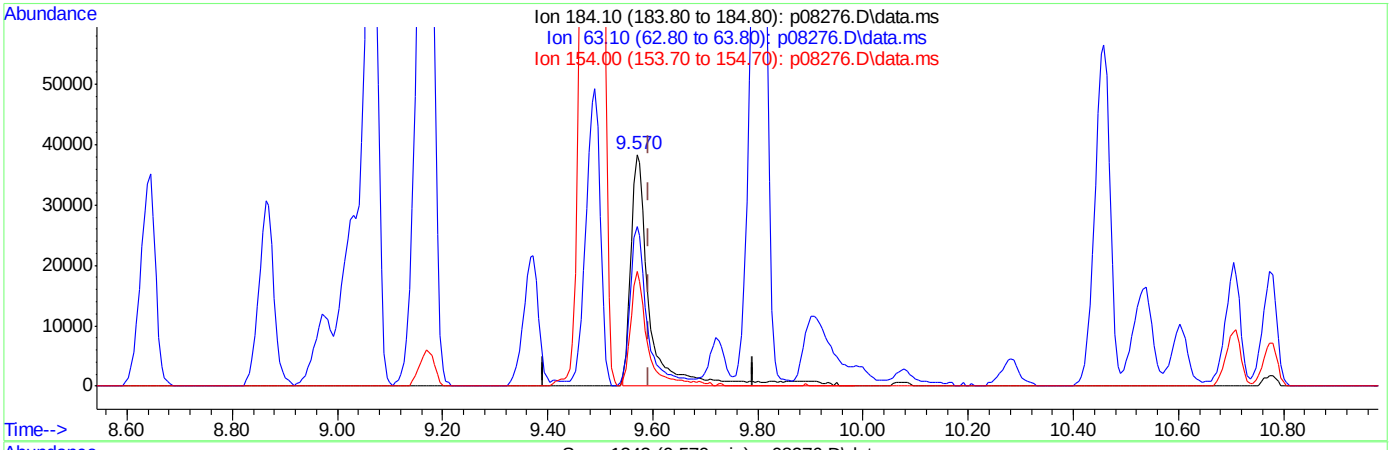
response 228687

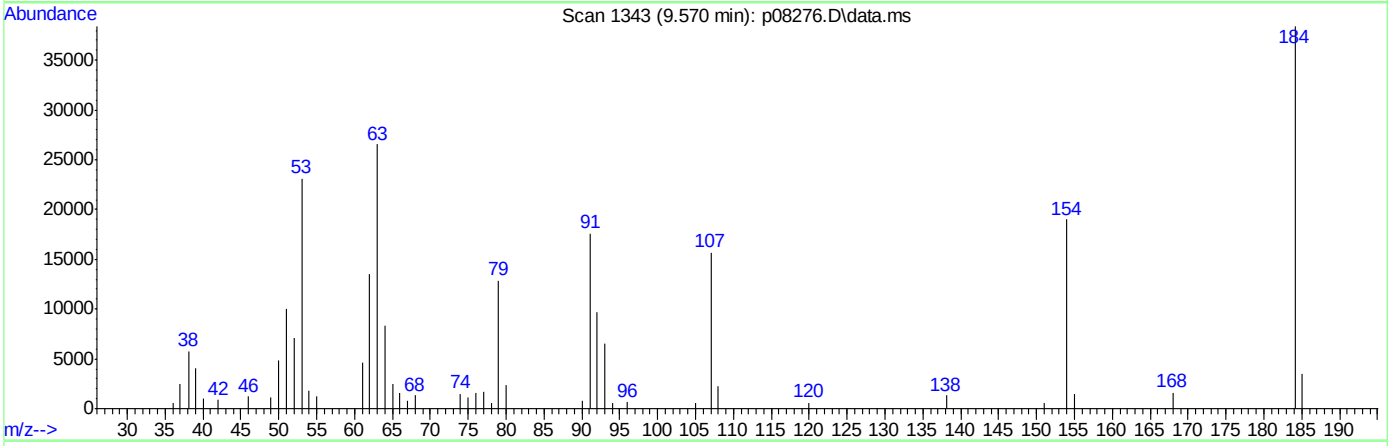
Ion	Exp%	Act%
127.10	100	100
129.10	32.30	24.82
65.10	38.70	33.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On : 22 Jan 2010 1:49 pm
Operator : garyj
Sample : icv393-50
Misc : op13254,Ep393,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration





(74) 2,4-Dinitrophenol (P)

9.570min (-0.022) 39.55ppm m

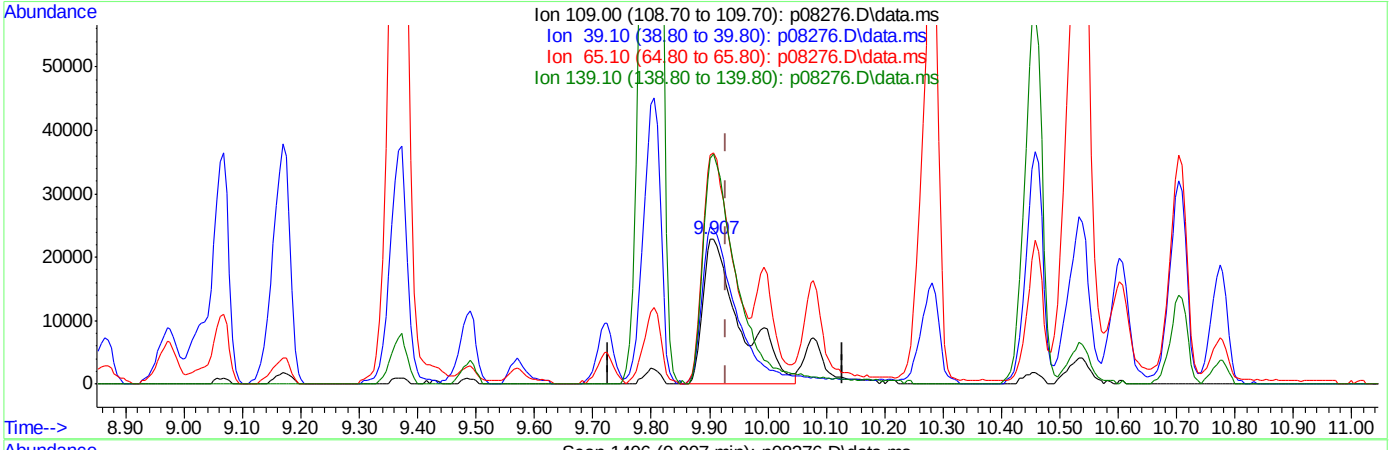
response 98976

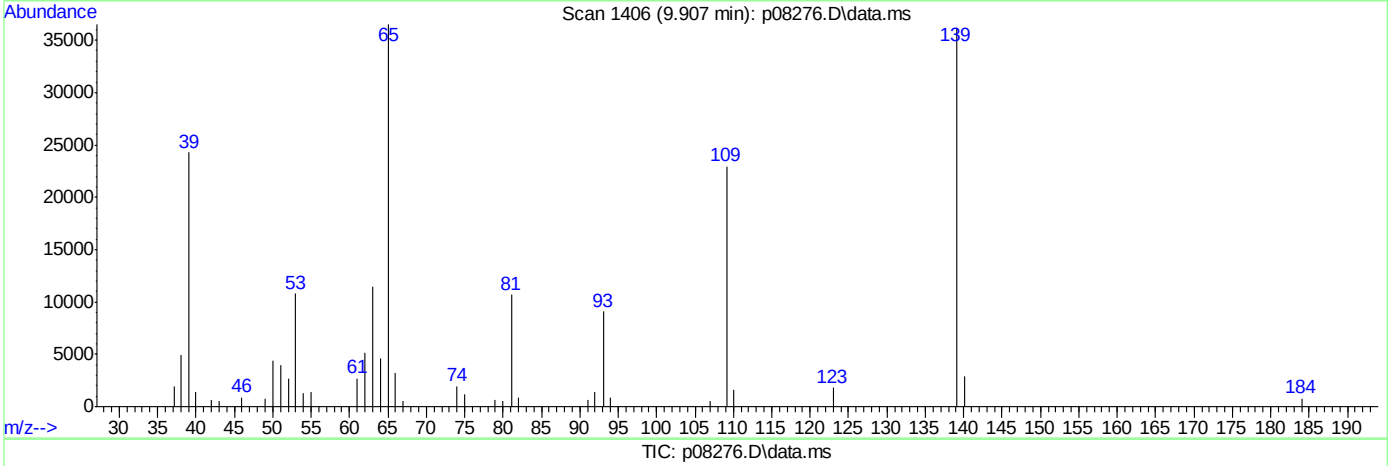
Ion	Exp%	Act%
184.10	100	100
63.10	66.90	61.39
154.00	47.50	43.09
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On    : 22 Jan 2010   1:49 pm
Operator  : garyj
Sample    : icv393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration
```





TIC: p08276.D\data.ms

(78) 4-Nitrophenol (P)

9.907min (-0.021) 43.22ppm m

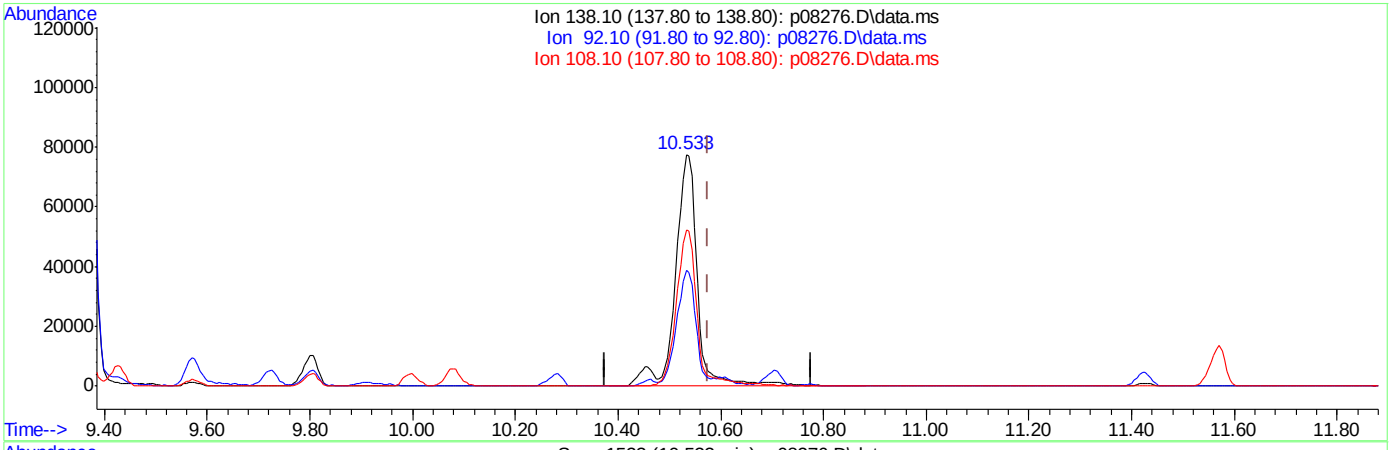
response 102174

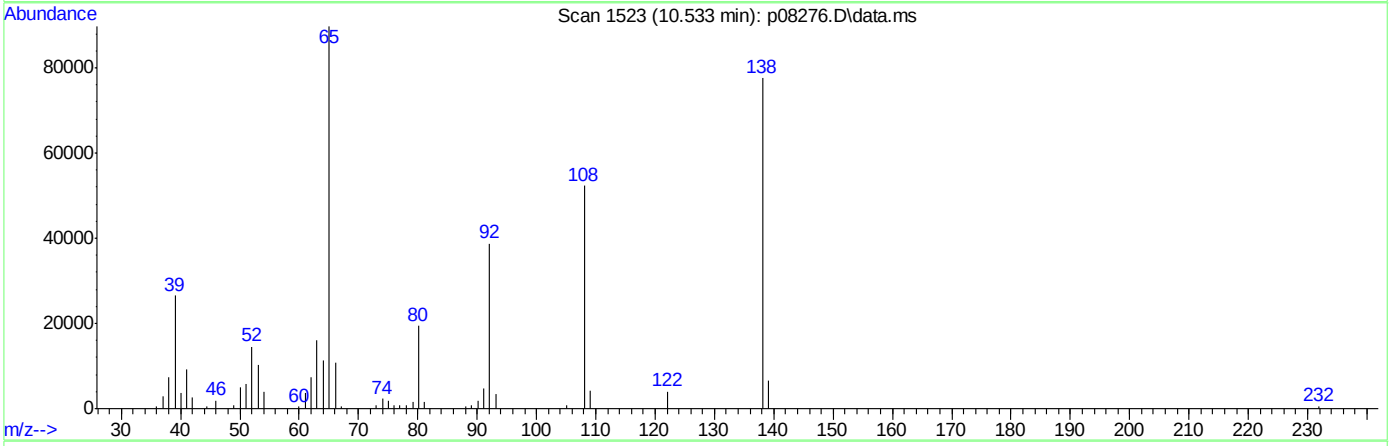
Ion	Exp%	Act%
109.00	100	100
39.10	121.40	100.18
65.10	117.20	124.63
139.10	142.00	142.03

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep393\
Data File : p08276.D
Acq On    : 22 Jan 2010   1:49 pm
Operator  : garyj
Sample    : icv393-50
Misc      : op13254,Ep393,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jan 22 14:57:10 2010
Quant Method : C:\msdchem\1\METHODS\ep393a9.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Fri Jan 22 14:45:38 2010
Response via : Initial Calibration
```





TIC: p08276.D\data.ms

(87) 4-Nitroaniline

10.533min (-0.043) 43.31ppm m

response 232629

Ion	Exp%	Act%
138.10	100	100
92.10	49.60	40.38
108.10	70.50	63.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08468.D
Acq On : 3 Feb 2010 1:17 pm
Operator : garyj
Sample : icc402-50, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 14:14:10 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 12:52:05 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	509772	40.00	ug/ml	0.00
3) Naphthalene-d8	6.462	136	1772840	40.00	ug/ml	0.01
5) Acenaphthene-d10	9.072	164	1152399	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1812200	40.00	ug/ml	0.00
7) Chrysene-d12	17.518	240	1467999	40.00	ug/ml	0.00
8) Perylene-d12	20.395	264	995358	40.00	ug/ml	0.01
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	640583	48.90	ug/ml	99
4) Resorcinol	7.098	110	707790	71.56	ug/ml	91

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

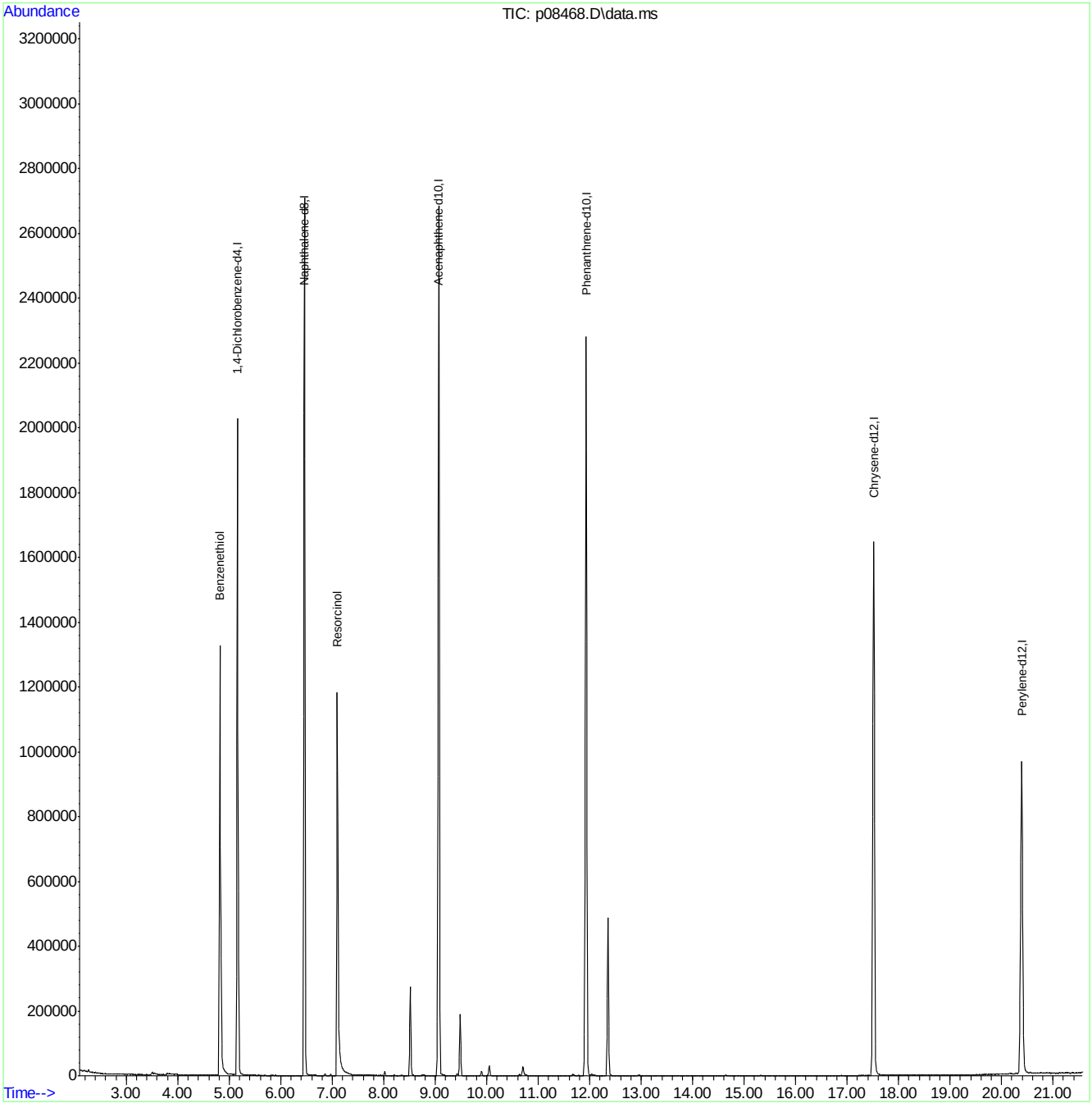
8.6.16

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08468.D
Acq On : 3 Feb 2010 1:17 pm
Operator : garyj
Sample : icc402-50, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 14:14:10 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 12:52:05 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08469.D
Acq On : 3 Feb 2010 1:45 pm
Operator : garyj
Sample : ic402-5, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 14:14:43 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 14:14:32 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.152	152	334198	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1123898	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.067	164	701548	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.923	188	1023752	40.00	ug/ml	0.00
7) Chrysene-d12	17.512	240	790460	40.00	ug/ml	0.00
8) Perylene-d12	20.384	264	623608	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	28308	3.37	ug/ml	98
4) Resorcinol	7.114	110	20232m	2.25	ug/ml	

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

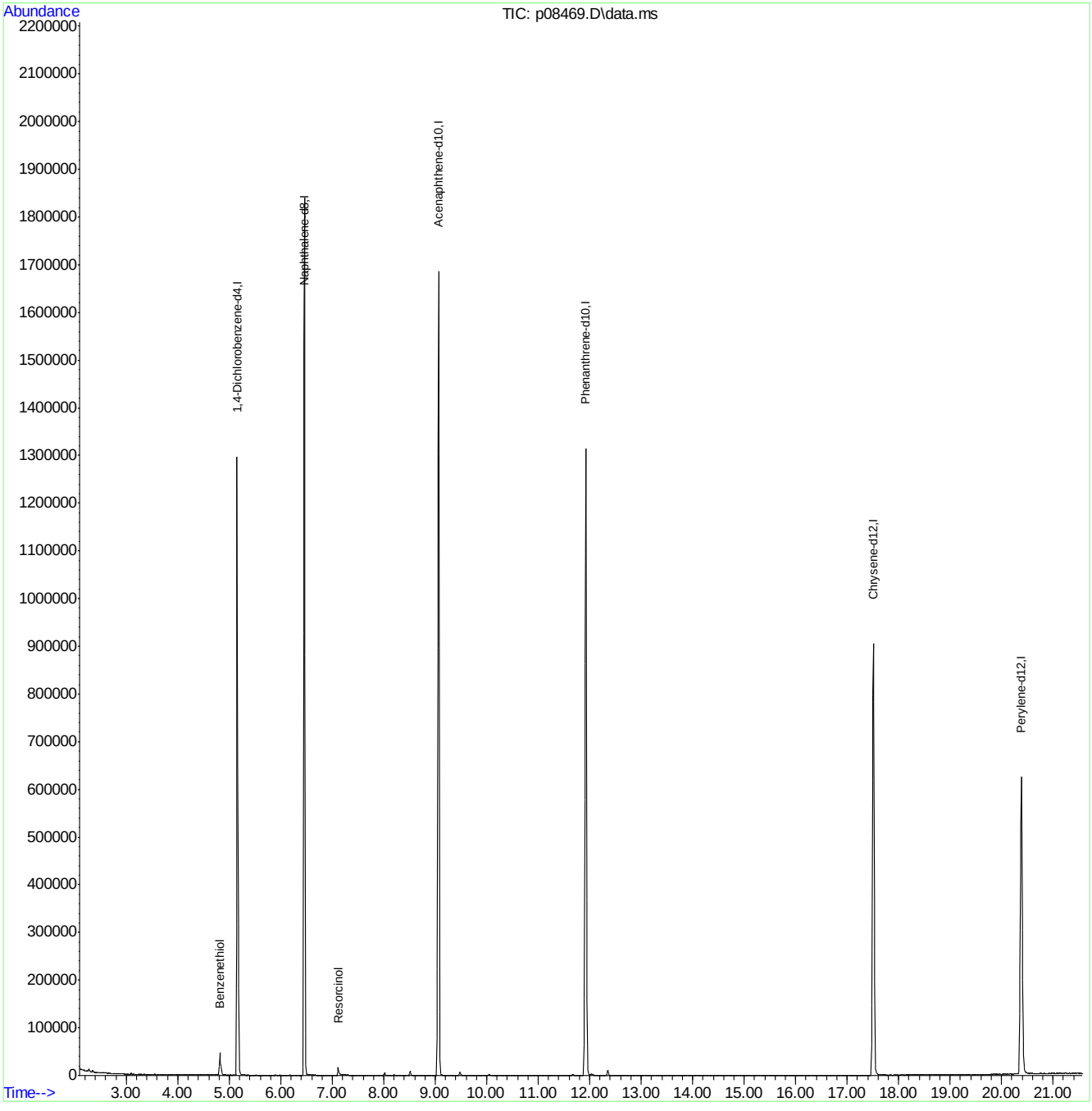
8.6.17

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08469.D
Acq On : 3 Feb 2010 1:45 pm
Operator : garyj
Sample : ic402-5, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 14:14:43 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 14:14:32 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08471.D
Acq On : 3 Feb 2010 2:40 pm
Operator : garyj
Sample : ic402-40, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 03 15:00:41 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 14:17:12 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.152	152	383981	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1322125	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.067	164	823059	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1332266	40.00	ug/ml	0.00
7) Chrysene-d12	17.512	240	1084400	40.00	ug/ml	0.00
8) Perylene-d12	20.384	264	750632	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	391597	48.48	ug/ml	98
4) Resorcinol	7.093	110	408991	53.40	ug/ml	90

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

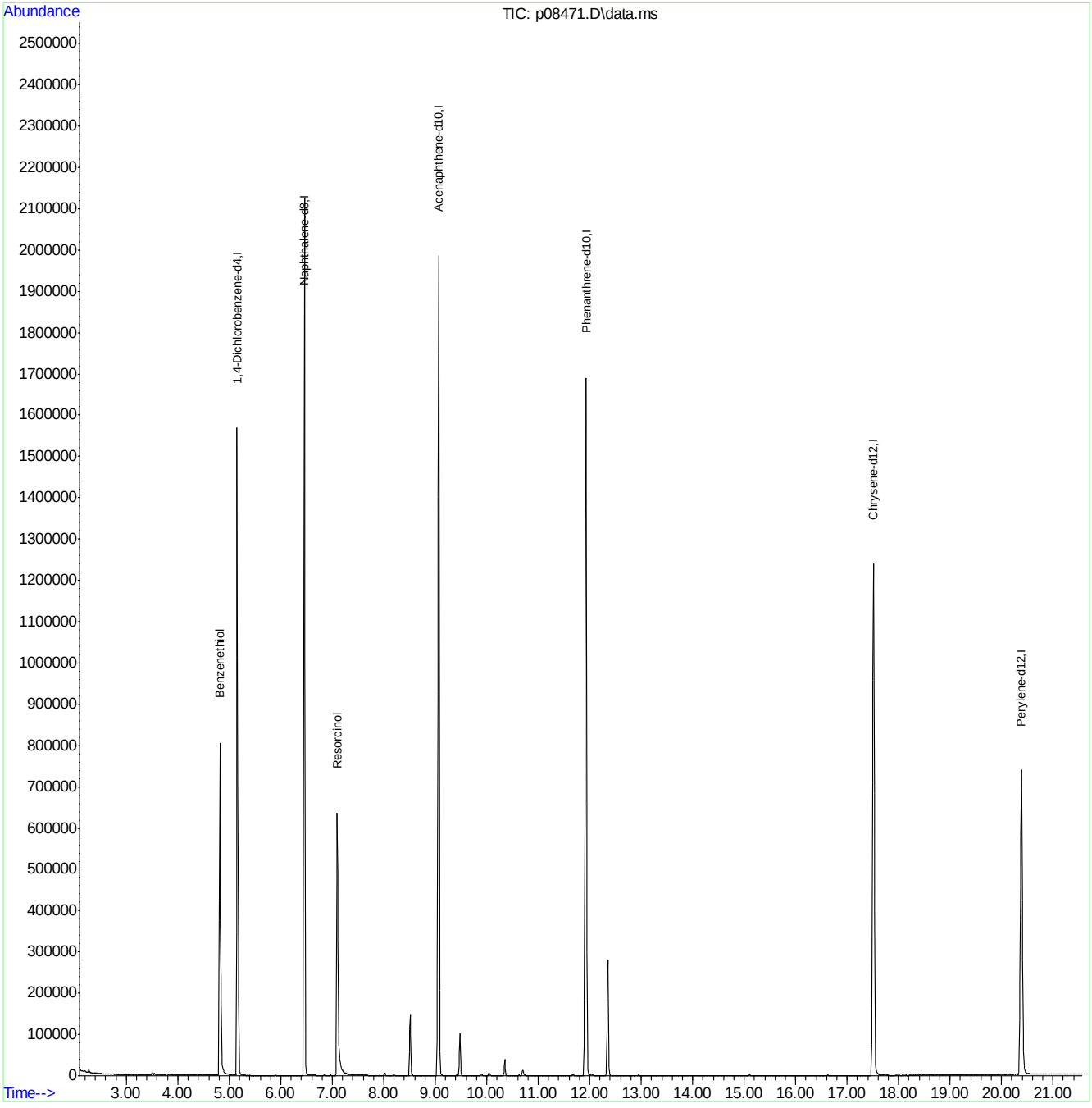
8.6.18

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08471.D
Acq On : 3 Feb 2010 2:40 pm
Operator : garyj
Sample : ic402-40, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 03 15:00:41 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 14:17:12 2010
Response via : Initial Calibration



8.6.18 8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08472.D
Acq On : 3 Feb 2010 3:08 pm
Operator : garyj
Sample : ic402-25, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 03 15:28:10 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:00:57 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	370381	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1271158	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.067	164	811759	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1263932	40.00	ug/ml	0.00
7) Chrysene-d12	17.512	240	1081575	40.00	ug/ml	0.00
8) Perylene-d12	20.390	264	769694	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	224093	26.86	ug/ml	99
4) Resorcinol	7.098	110	226003	27.61	ug/ml	90

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

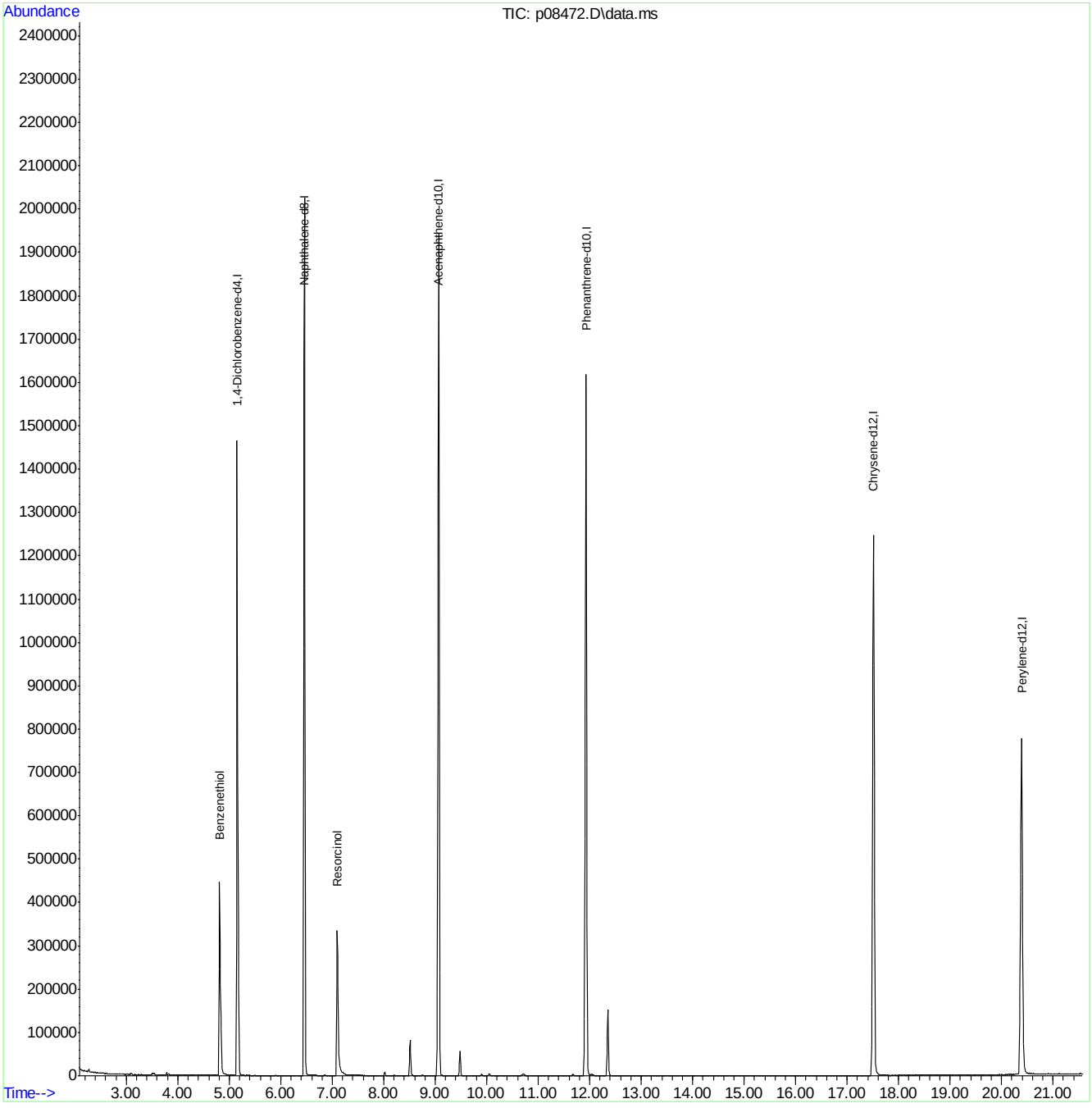
8.6.19

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08472.D
Acq On : 3 Feb 2010 3:08 pm
Operator : garyj
Sample : ic402-25, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 03 15:28:10 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:00:57 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08473.D
Acq On : 3 Feb 2010 3:36 pm
Operator : garyj
Sample : ic402-75, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 03 15:55:12 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:28:22 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	395193	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1355349	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.072	164	855798	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1272969	40.00	ug/ml	0.00
7) Chrysene-d12	17.518	240	962297	40.00	ug/ml	0.00
8) Perylene-d12	20.390	264	782573	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	711347	78.46	ug/ml	98
4) Resorcinol	7.104	110	770032	85.98	ug/ml	92

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

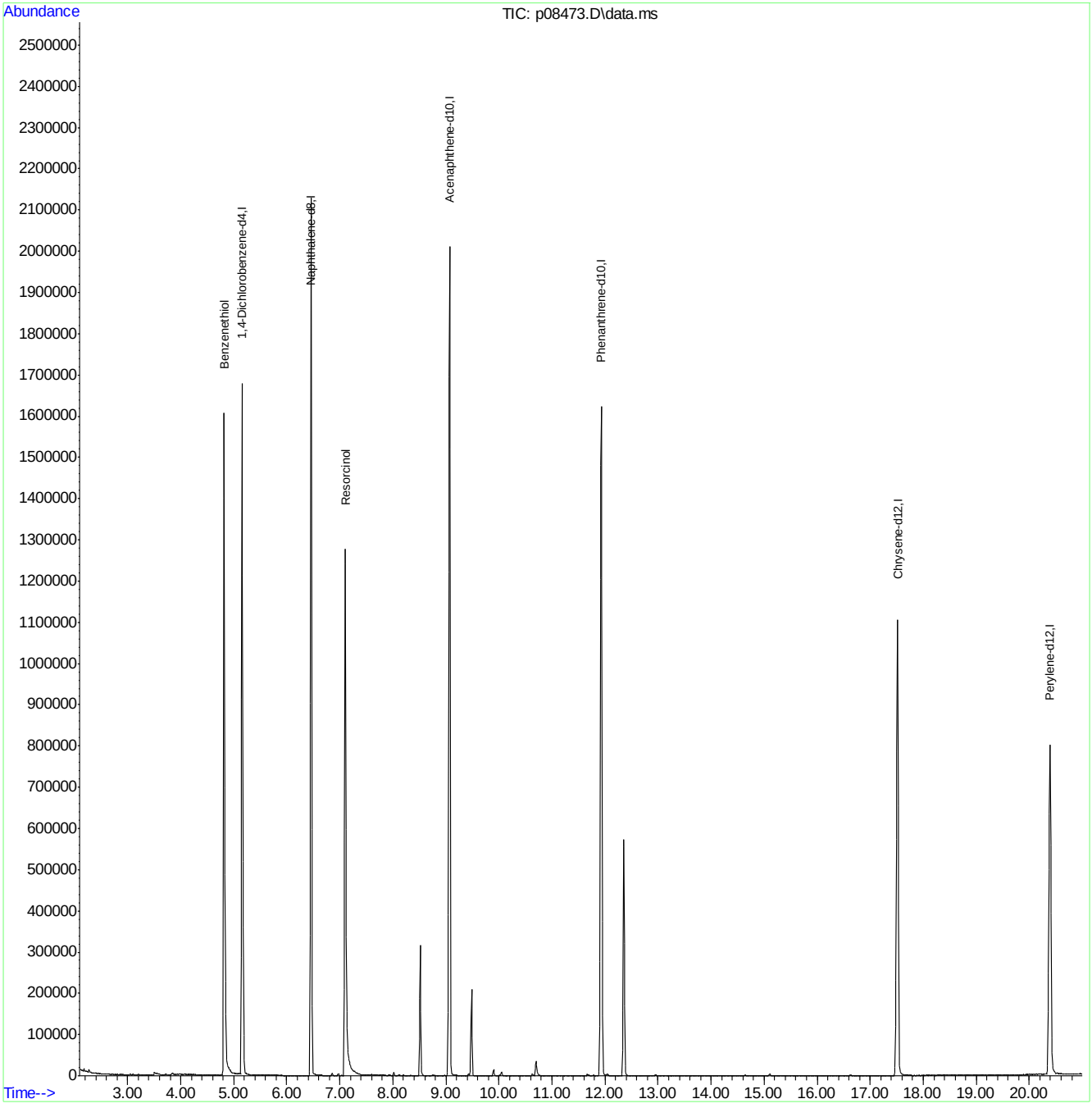
8.6.20

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08473.D
Acq On : 3 Feb 2010 3:36 pm
Operator : garyj
Sample : ic402-75, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 03 15:55:12 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:28:22 2010
Response via : Initial Calibration



8.6.20
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08474.D
Acq On : 3 Feb 2010 4:03 pm
Operator : garyj
Sample : ic402-100, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 03 16:23:05 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:56:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	391416	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1354103	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.072	164	869731	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1332812	40.00	ug/ml	0.00
7) Chrysene-d12	17.518	240	1035548	40.00	ug/ml	0.00
8) Perylene-d12	20.390	264	772547	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	931477	102.78	ug/ml	98
4) Resorcinol	7.109	110	1055630	114.62	ug/ml	93

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

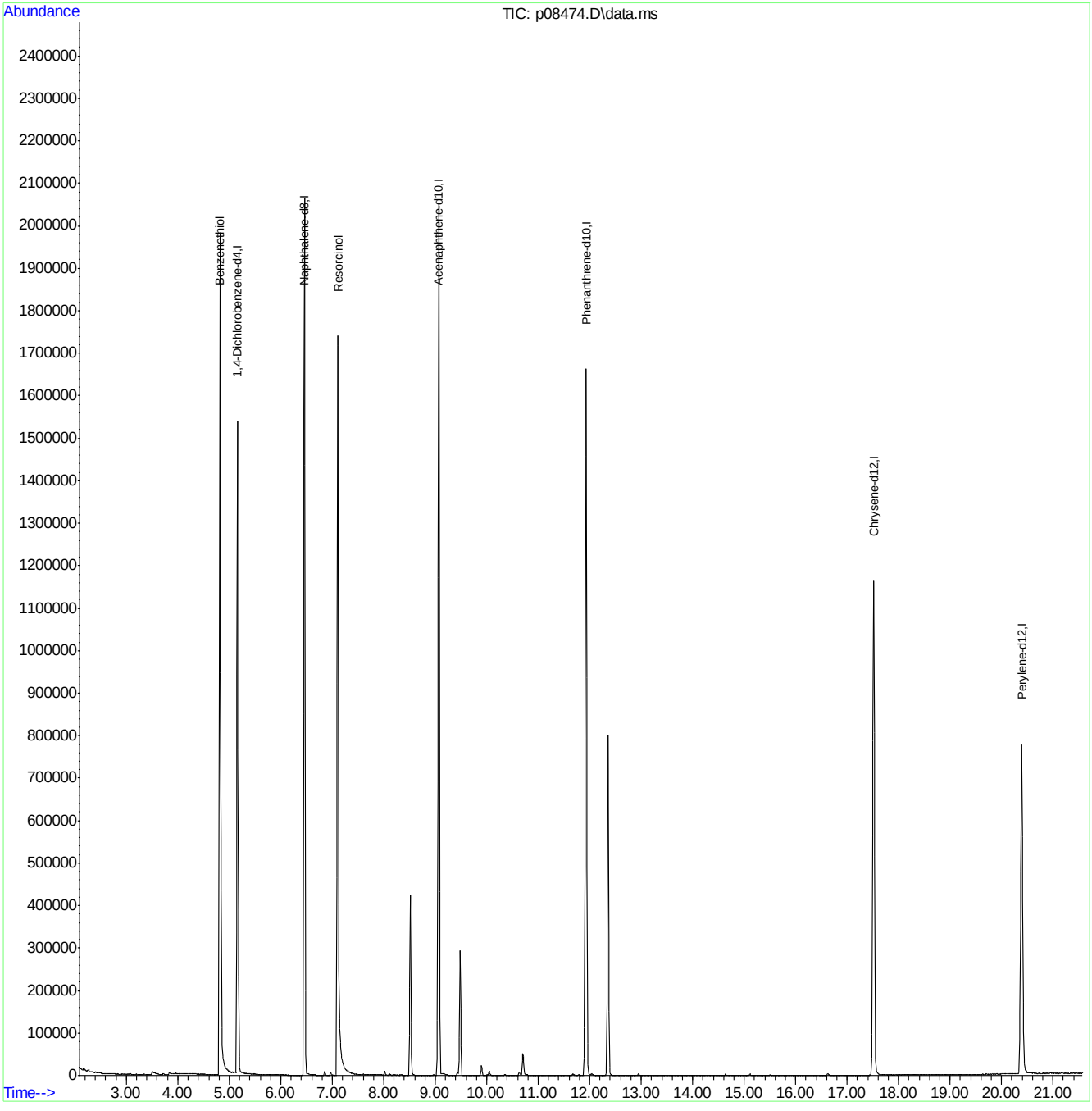
8.6.21

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08474.D
Acq On : 3 Feb 2010 4:03 pm
Operator : garyj
Sample : ic402-100, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 03 16:23:05 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 15:56:04 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08475.D
Acq On : 3 Feb 2010 4:31 pm
Operator : garyj
Sample : icv402-50, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 03 19:54:30 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 16:23:15 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.157	152	360559	40.00 ug/ml	0.00
3) Naphthalene-d8	6.457	136	1234346	40.00 ug/ml	0.00
5) Acenaphthene-d10	9.067	164	773999	40.00 ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1204622	40.00 ug/ml	0.00
7) Chrysene-d12	17.512	240	961845	40.00 ug/ml	0.00
8) Perylene-d12	20.390	264	665013	40.00 ug/ml	0.00
Target Compounds					Qvalue
2) Benzenethiol	4.809	110	445280	53.09 ug/ml	98
4) Resorcinol	7.098	110	482964	51.17 ug/ml	90

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

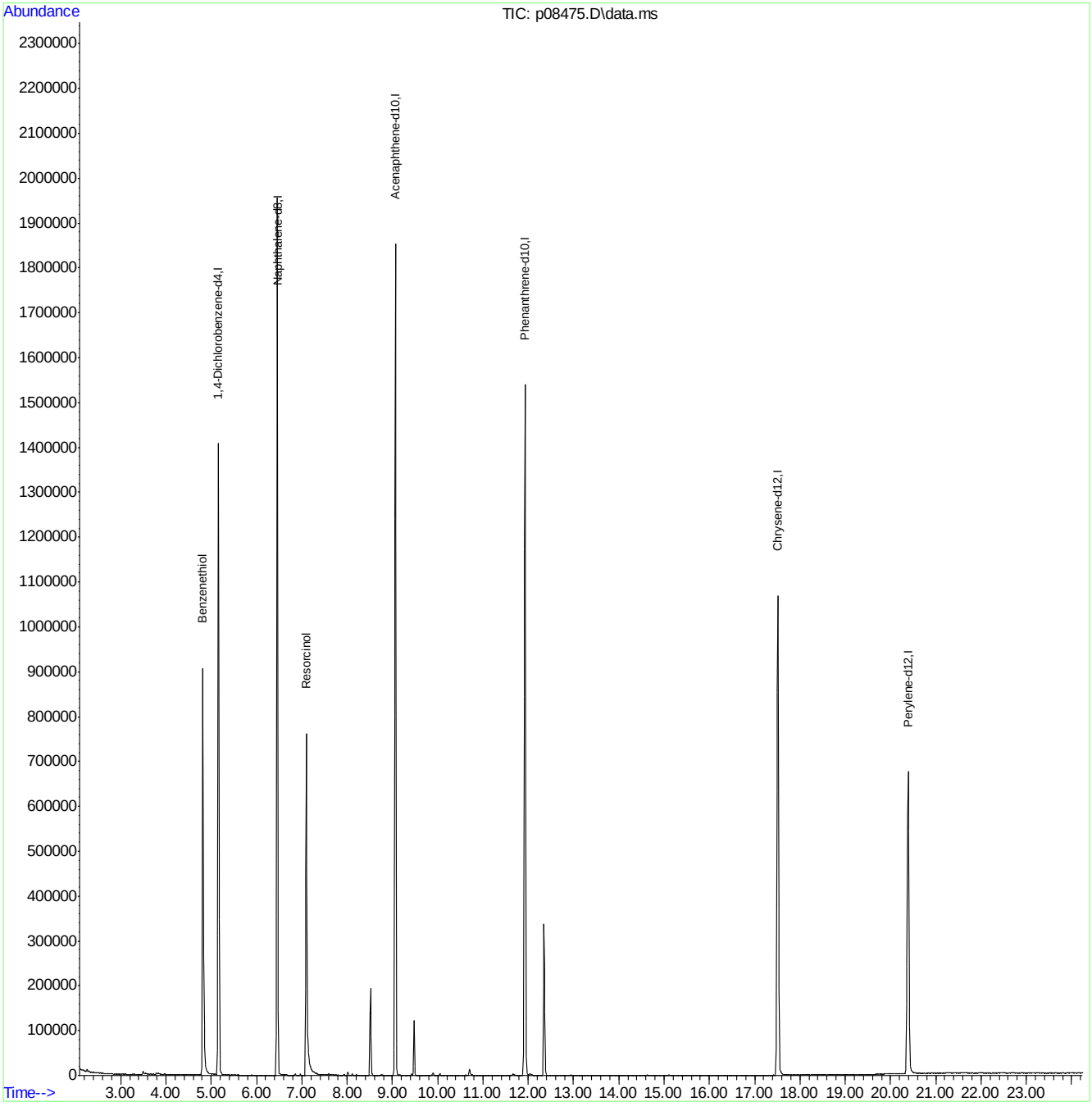
8.6.22

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep402\
Data File : p08475.D
Acq On : 3 Feb 2010 4:31 pm
Operator : garyj
Sample : icv402-50, benzth + resc
Misc : op13254,Ep402,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 03 19:54:30 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 16:23:15 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	422270	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1553031	40.00	ppm	0.00
46) Acenaphthene-d10	9.083	164	1046992	40.00	ppm	0.01
70) Phenanthrene-d10	11.950	188	1825839	40.00	ppm	0.01
85) Chrysene-d12	17.544	240	1638407	40.00	ppm	0.02
94) Perylene-d12	20.406	264	1135872	40.00	ppm	0.02
System Monitoring Compounds						
10) 2-Fluorophenol	4.114	112	3199661	205.30	ppm	-0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 205.30%#			
12) Phenol-d5	4.900	99	3510445	192.82	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 192.82%#			
26) Nitrobenzene-d5	5.697	82	1913916	98.11	ppm	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 196.22%#			
50) 2-Fluorobiphenyl	7.954	172	3463328	102.23	ppm	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 204.46%#			
75) 2,4,6-Tribromophenol	10.591	330	886645	187.20	ppm	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 187.20%#			
88) Terphenyl-d14	15.352	244	3724067	88.03	ppm	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 176.06%#			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.600	79	882522m	52.51	ppm	
3) 1,4-Dioxane	2.536	88	344628	51.90	ppm	93
4) N-nitrosodimethylamine	2.879	42	437176	51.20	ppm	95
5) Pyridine	2.862	79	854475m	48.65	ppm	
6) 2-Picoline	3.574	93	957340	46.67	ppm	98
7) N-Nitrosodiethylamine	4.280	102	444543	47.99	ppm	97
8) Benzaldehyde	4.788	106	238388	47.41	ppm	96
9) Aniline	4.884	93	1083749	49.92	ppm	86
11) bis(2-Chloroethyl)ether	4.927	93	899725	48.55	ppm	91
13) Phenol	4.911	94	1030894	50.20	ppm #	48
14) 2-Chlorophenol	5.013	128	805768	50.13	ppm	97
15) 1,3-Dichlorobenzene	5.109	146	1000052	50.79	ppm	98
16) 1,4-Dichlorobenzene	5.178	146	966613	52.52	ppm	99
17) 1,2-Dichlorobenzene	5.317	146	892916	51.87	ppm	98
18) Benzyl alcohol	5.301	108	540491	49.06	ppm	94
19) bis(2-chloroisopropyl)...	5.408	45	1782407	52.05	ppm	98
20) 2-Methylphenol	5.462	108	795906	46.71	ppm	93
21) Acetophenone	5.542	105	1065201	48.95	ppm #	80
22) Hexachloroethane	5.638	117	383609	52.56	ppm	100
23) N-Nitroso-di-n-propyla...	5.564	70	597203	49.57	ppm #	70
24) 3&4-Methylphenol	5.590	108	796736	53.60	ppm	87
27) Nitrobenzene	5.719	77	913173	49.29	ppm	99
28) Isophorone	5.959	82	1851404	48.52	ppm	99
29) 2-Nitrophenol	6.040	139	438646	49.79	ppm	95
30) 2,4-Dimethylphenol	6.104	107	847800	50.22	ppm	95
31) bis(2-Chloroethoxy)met...	6.173	93	1032379m	49.04	ppm	
32) Benzoic Acid	6.275	105	271563m	41.46	ppm	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 2,4-Dichlorophenol	6.339	162	685186	51.86	ppm		100
34) 1,2,4-Trichlorobenzene	6.398	180	767632	51.47	ppm		99
35) Naphthalene	6.494	128	2214793	50.80	ppm		98
36) 4-Chloroaniline	6.558	127	823552	45.87	ppm		99
37) 2,6-Dichlorophenol	6.580	162	624426	51.73	ppm		99
38) Hexachloropropene	6.601	213	367005	51.14	ppm		98
39) Hexachlorobutadiene	6.644	225	465710	50.75	ppm		100
40) Caprolactam	7.050	113	289820	46.93	ppm		98
41) N-Nitrosodi-n-butylamine	6.976	84	642967	46.34	ppm		98
42) 4-Chloro-3-methylphenol	7.243	107	724835	52.52	ppm		97
43) 2-Methylnaphthalene	7.398	142	1554633	52.49	ppm		97
44) 1-Methylnaphthalene	7.543	142	1510981	52.17	ppm		98
45) 1,2,4,5-Tetrachloroben...	7.655	216	721084	52.99	ppm		100
47) Hexachlorocyclopentadiene	7.639	237	154019	38.63	ppm	#	94
48) 2,4,6-Trichlorophenol	7.853	196	497439	48.52	ppm		99
49) 2,4,5-Trichlorophenol	7.960	196	423972	45.64	ppm		99
51) 1,1'-Biphenyl	8.115	154	1832042	48.39	ppm		100
52) 2-Chloronaphthalene	8.147	162	1824178	47.27	ppm		97
53) 2-Nitroaniline	8.318	65	535797	46.25	ppm		95
54) Acenaphthylene	8.832	152	2428401	48.98	ppm		99
55) Dimethylphthalate	8.644	163	2009579	48.26	ppm		100
56) m-Dinitrobenzene	8.698	168	315398	50.37	ppm	#	76
57) 2,6-Dinitrotoluene	8.735	165	457767	49.21	ppm		95
58) Acenaphthene	9.142	153	1579562	49.44	ppm		100
59) 3-Nitroaniline	9.035	138	428887	49.01	ppm		99
60) 2,4-Dinitrophenol	9.243	184	166742m	41.97	ppm		
61) Dibenzofuran	9.452	168	2057393	50.60	ppm		98
62) Pentachlorobenzene	9.399	250	672654	50.60	ppm		99
63) 2,4-Dinitrotoluene	9.468	165	559777	49.37	ppm		87
64) 4-Nitrophenol	9.570	109	191876m	51.72	ppm		
65) 2,3,4,6-Tetrachlorophenol	9.650	232	348126	49.68	ppm		100
66) Fluorene	10.094	166	1628589	50.62	ppm		97
67) 4-Chlorophenyl-phenyle...	10.105	204	805059	49.58	ppm		99
68) Diethylphthalate	9.939	149	2055078	51.43	ppm		99
69) 4-Nitroaniline	10.195	138	401635	47.80	ppm		97
71) 4,6-Dinitro-2-methylph...	10.265	198	261186	38.19	ppm		96
72) n-Nitrosodiphenylamine	10.356	169	1657334	47.72	ppm		99
73) 1,2-Diphenylhydrazine	10.415	77	2120855	47.42	ppm		99
74) Diphenylamine	10.356	169	1657334	47.72	ppm		99
76) 4-Bromophenyl-phenylether	11.067	248	510757	47.12	ppm		99
77) Hexachlorobenzene	11.201	284	545938	50.90	ppm		99
78) Atrazine	11.479	200	440086	61.21	ppm		99
79) Pentachlorophenol	11.650	266	191920	50.33	ppm		99
80) Phenanthrene	12.003	178	2444922	50.31	ppm		99
81) Anthracene	12.105	178	2680672	51.26	ppm		100
82) Carbazole	12.463	167	2444677	51.81	ppm		100
83) Di-n-butylphthalate	13.271	149	3677673	56.16	ppm		100
84) Fluoranthene	14.480	202	2956055	54.85	ppm		99
86) Benzidine	14.801	184	744243	52.64	ppm		99
87) Pyrene	14.950	202	3156353	45.69	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	Butylbenzylphthalate	16.427	149	1612660	47.80 ppm	100
90)	3,3'-Dichlorobenzidine	17.496	252	695429	51.88 ppm	99
91)	Benzo[a]anthracene	17.518	228	2532041	50.31 ppm	99
92)	Chrysene	17.603	228	2450556	51.44 ppm	100
93)	bis(2-Ethylhexyl)phtha...	17.700	149	2110812	47.09 ppm	98
95)	Di-n-octylphthalate	18.994	149	3368808	46.95 ppm	99
96)	Benzo[b]fluoranthene	19.684	252	2105353	50.06 ppm	95
97)	Benzo[k]fluoranthene	19.732	252	1737027	46.44 ppm	99
98)	Benzo[a]pyrene	20.299	252	1836007	52.26 ppm	98
99)	Indeno[1,2,3-cd]pyrene	22.866	276	1519226	54.37 ppm	92
100)	Dibenz[a,h]anthracene	22.893	278	1284815	54.74 ppm	97
101)	Benzo[g,h,i]perylene	23.567	276	1225683	54.40 ppm	95

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

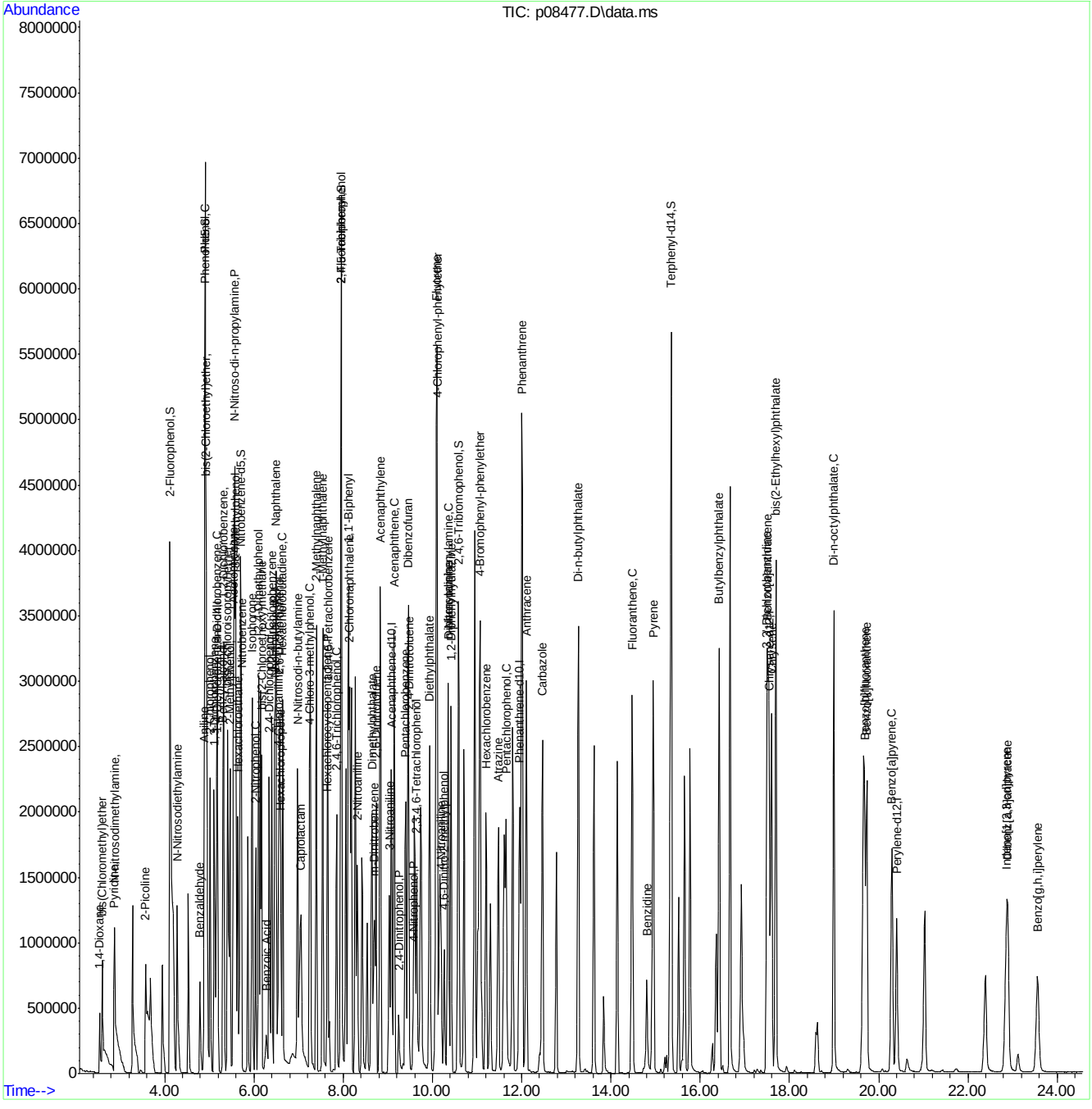
8.6.23

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

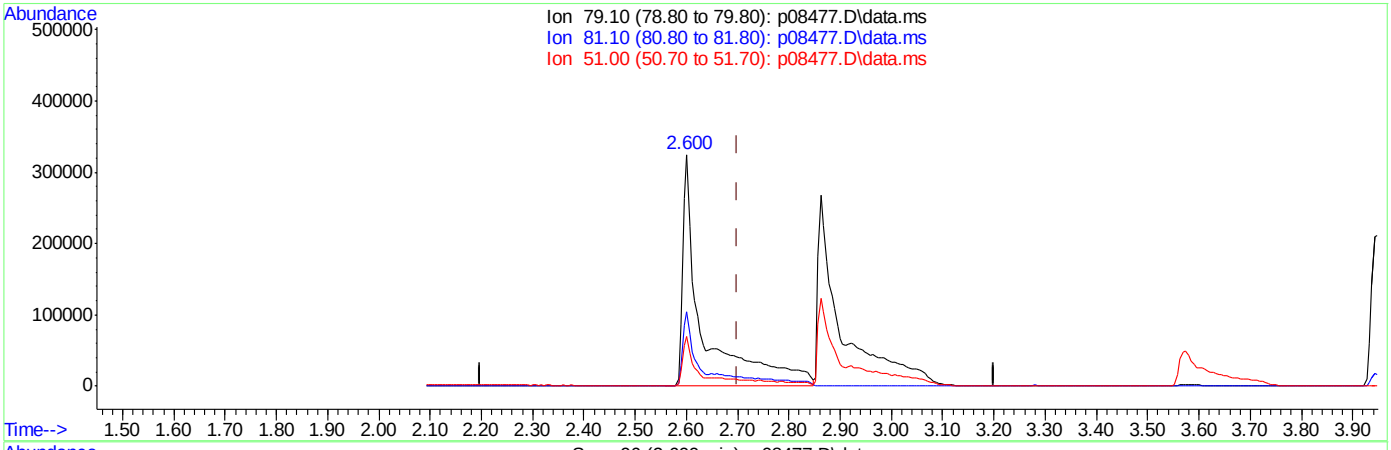


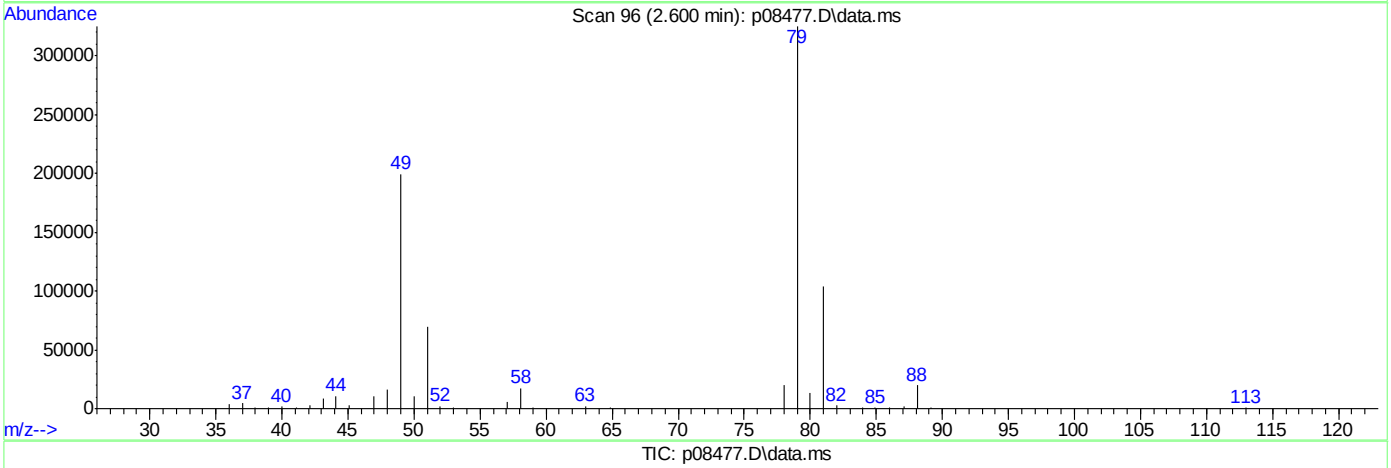
ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08477.D\data.ms

(2) bis(Chloromethyl)ether

2.600min (-0.099) 52.51ppm m

response 882522

Ion	Exp%	Act%
79.10	100	100
81.10	32.60	0.00#
51.00	21.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On    :  3 Feb 2010   5:16 pm
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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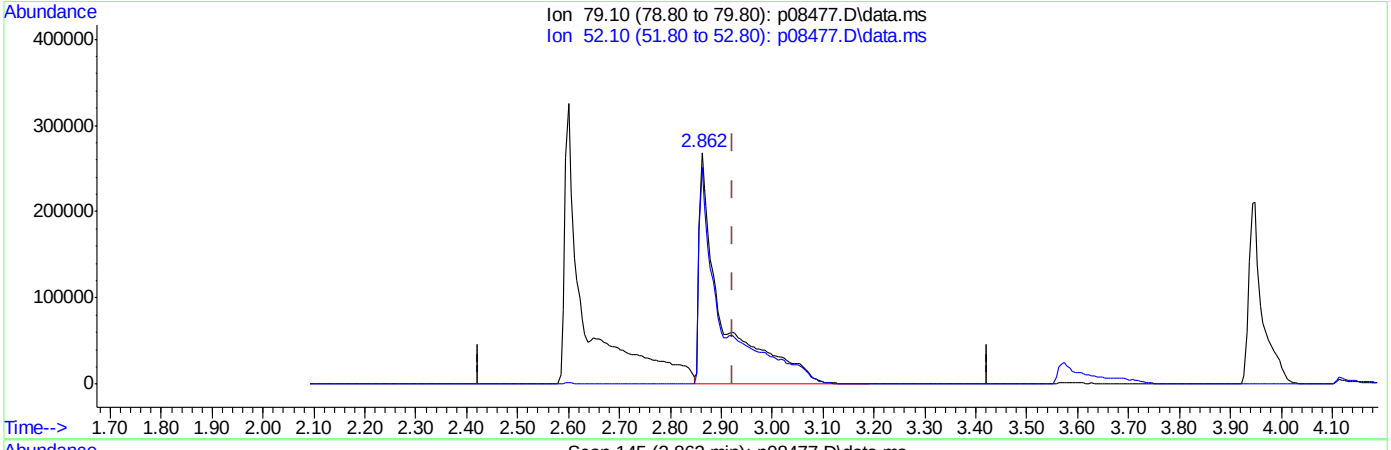

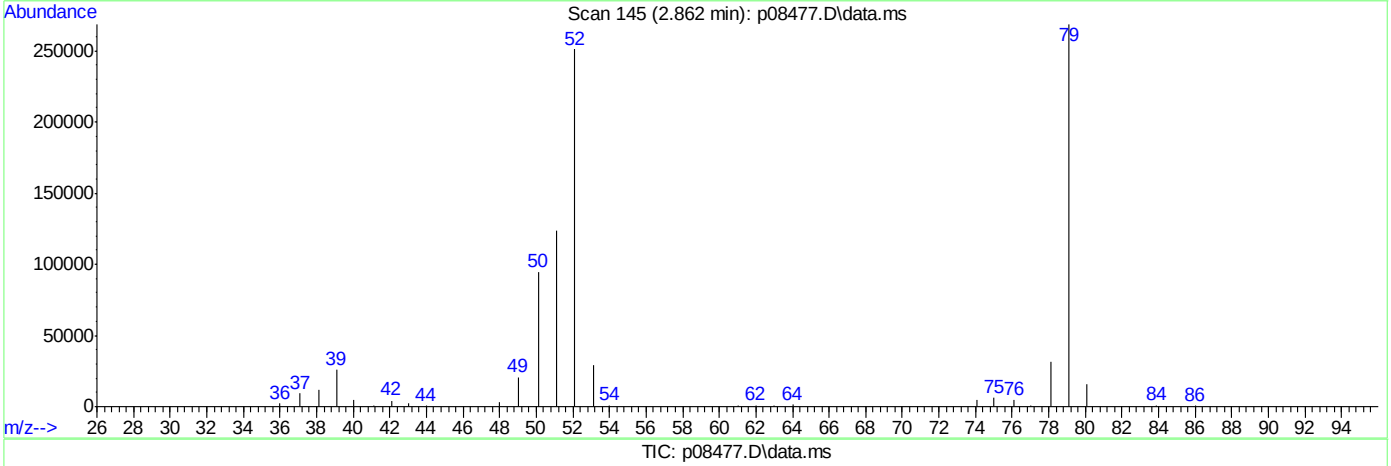

(5) Pyridine ( )

2.862min (-0.061) 48.65ppm m

response 854475

Ion	Exp%	Act%
79.10	100	100
52.10	94.10	52.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On    :  3 Feb 2010   5:16 pm
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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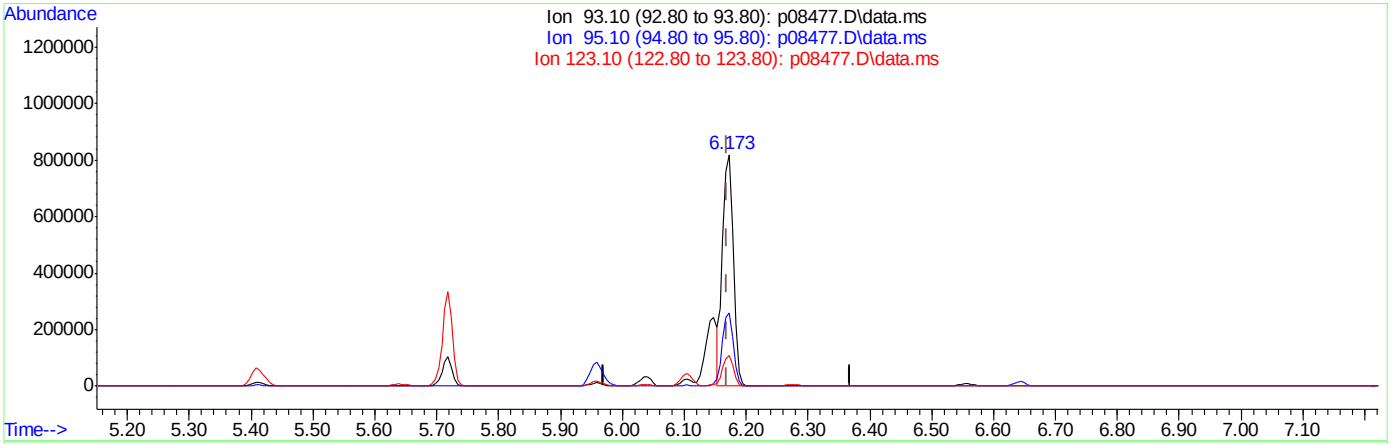
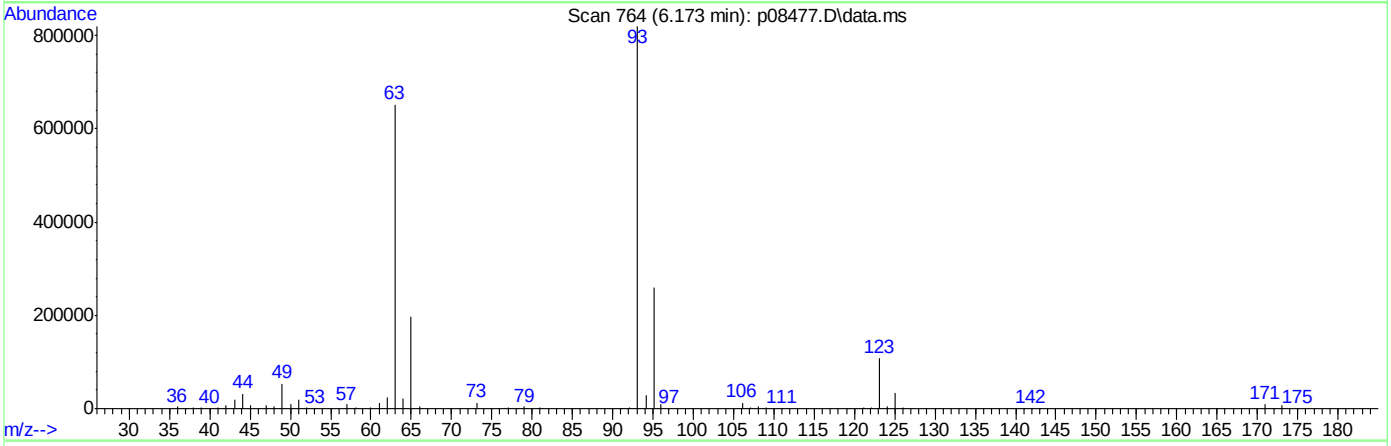




TIC: p08477.D\data.ms

(31) bis(2-Chloroethoxy)methane

6.173min (+0.003) 49.04ppm m

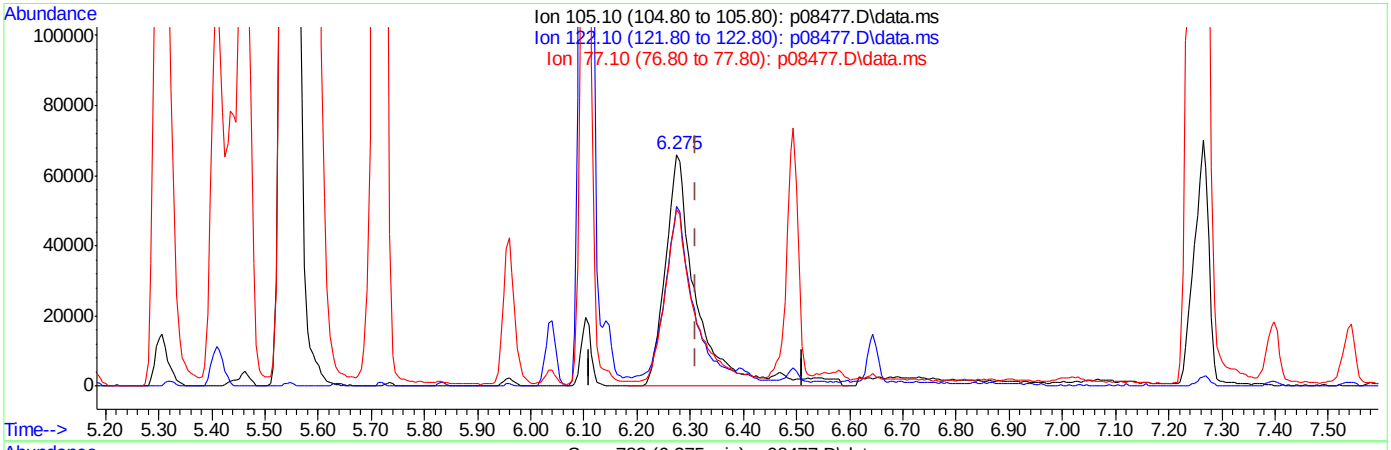
response 1032379

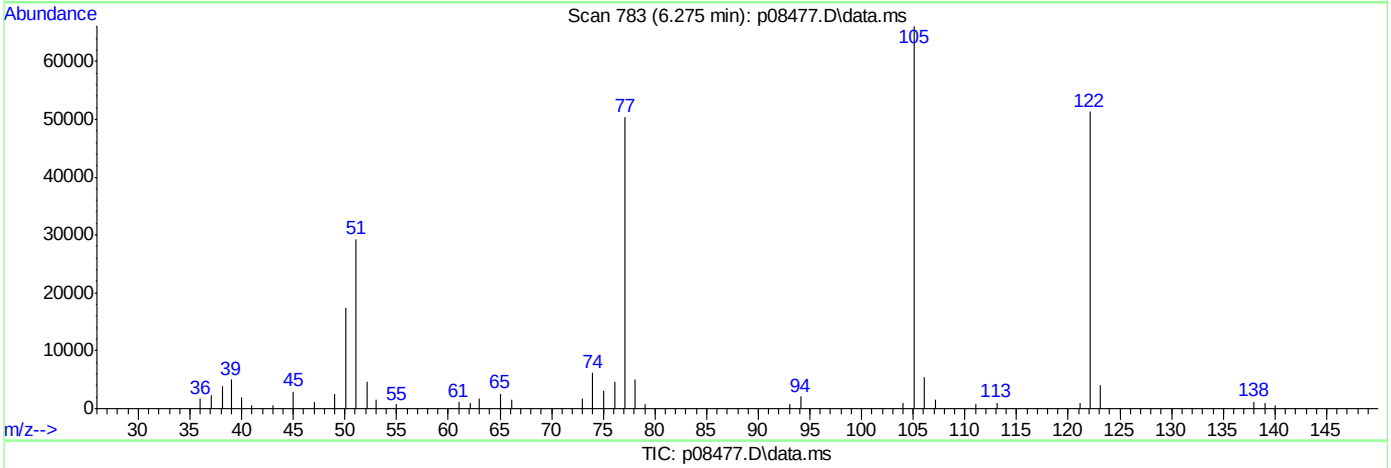
Ion	Exp%	Act%
93.10	100	100
95.10	32.20	32.79
123.10	13.00	13.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On : 3 Feb 2010 5:16 pm
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08477.D\data.ms

(32) Benzoic Acid

6.275min (-0.036) 41.46ppm m

response 271563

Ion	Exp%	Act%
105.10	100	100
122.10	75.80	62.95
77.10	77.30	67.27
0.00	0.00	0.00

ACCUTEST Laboratories

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On    :  3 Feb 2010   5:16 pm
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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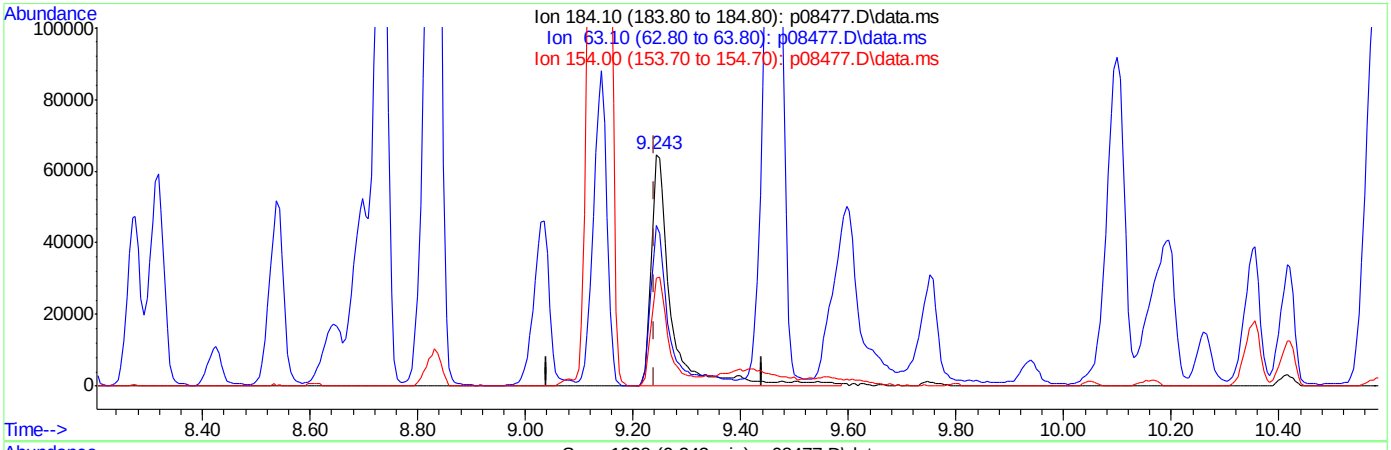

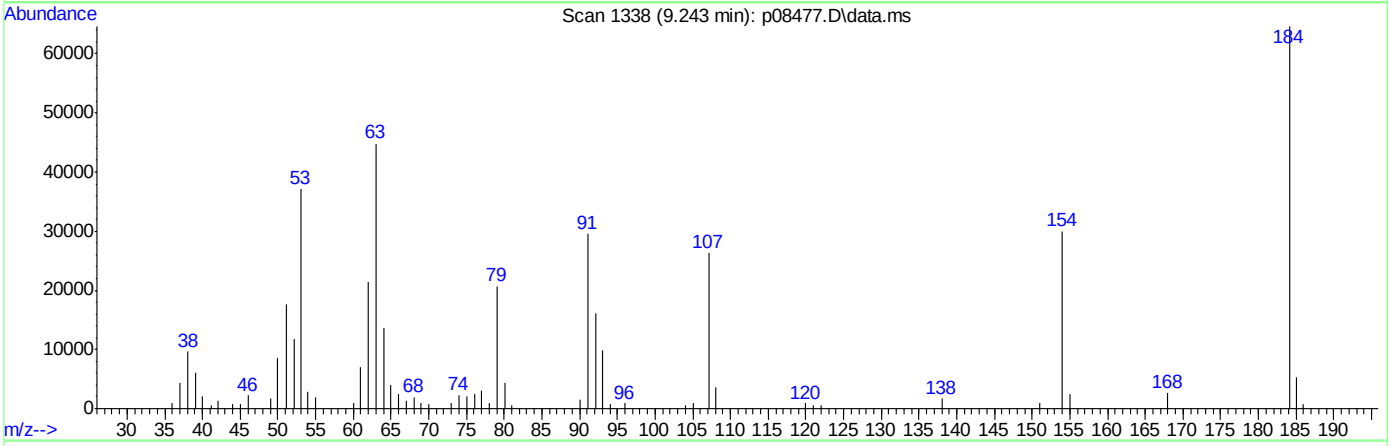

(60) 2,4-Dinitrophenol (P)

9.243min (+0.004) 41.97ppm m

response 166742

Ion	Exp%	Act%
184.10	100	100
63.10	70.40	59.29
154.00	49.10	42.09
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08477.D
Acq On    :  3 Feb 2010   5:16 pm
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 03 17:40:32 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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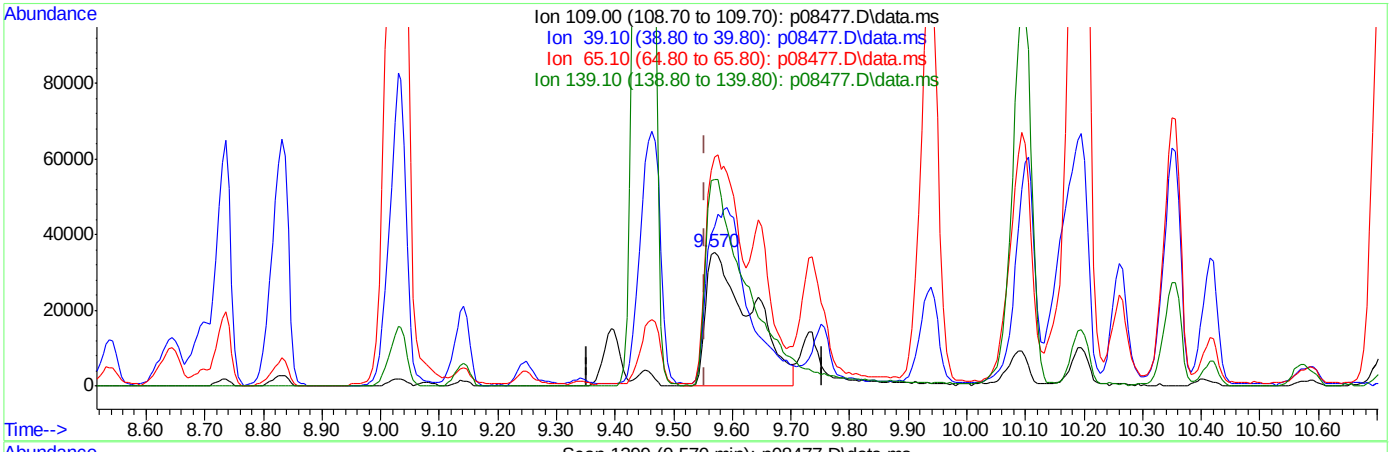
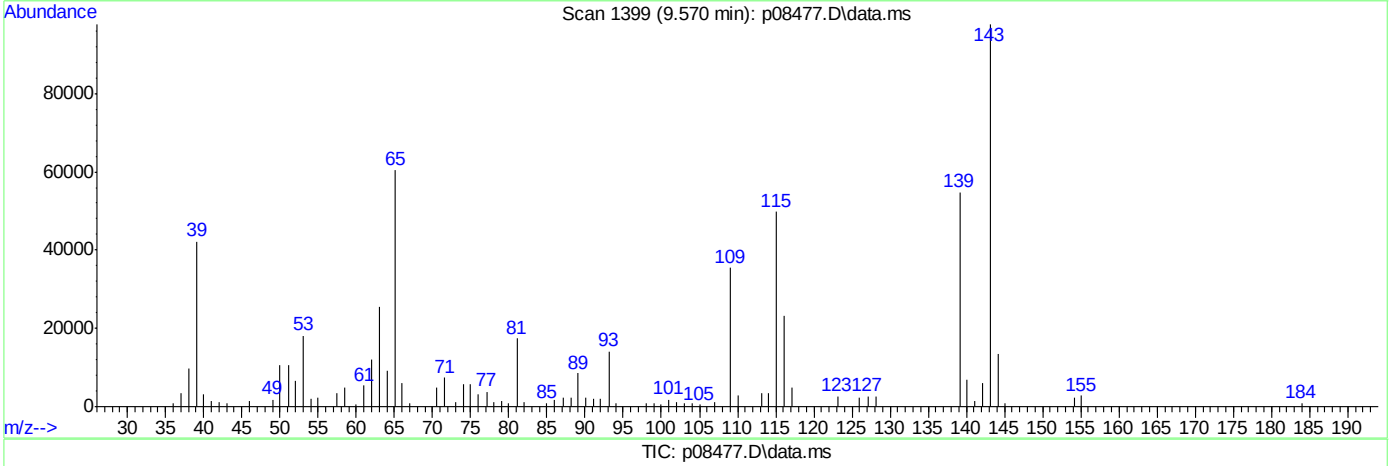




(64) 4-Nitrophenol (P)

9.570min (+0.016) 51.72ppm m

response 191876

Ion	Exp%	Act%
109.00	100	100
39.10	122.90	116.51
65.10	167.80	118.02#
139.10	150.80	141.37

ACCUTEST Laboratories

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08478.D
Acq On : 3 Feb 2010 5:47 pm
Operator : garyj
Sample : cc402-50, benzth + resc
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 03 18:21:29 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 16:23:15 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.157	152	482307	40.00	ug/ml	0.00
3) Naphthalene-d8	6.457	136	1622954	40.00	ug/ml	0.00
5) Acenaphthene-d10	9.067	164	1006745	40.00	ug/ml	0.00
6) Phenanthrene-d10	11.928	188	1533546	40.00	ug/ml	0.00
7) Chrysene-d12	17.512	240	1148257	40.00	ug/ml	0.00
8) Perylene-d12	20.390	264	802586	40.00	ug/ml	0.00
Target Compounds						Qvalue
2) Benzenethiol	4.815	110	599947	53.48	ug/ml	99
4) Resorcinol	7.099	110	594086	48.00	ug/ml	90

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

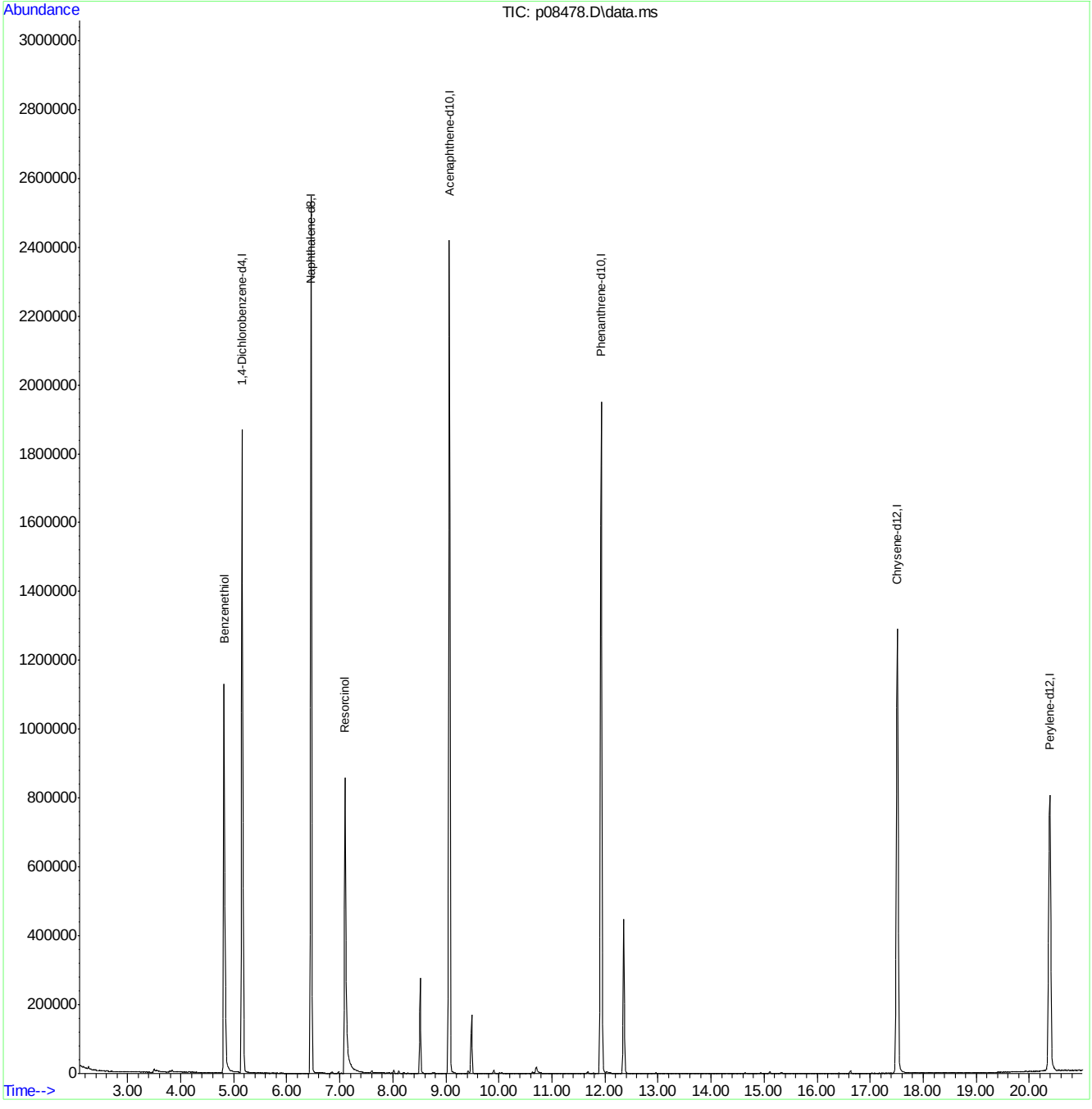
8.6.24

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08478.D
Acq On : 3 Feb 2010 5:47 pm
Operator : garyj
Sample : cc402-50, benzth + resc
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 03 18:21:29 2010
Quant Method : C:\msdchem\1\METHODS\ep402benzresc.m
Quant Title :
QLast Update : Wed Feb 03 16:23:15 2010
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.168	152	652395	40.00	ppm	0.02
25) Naphthalene-d8	6.484	136	2507448	40.00	ppm	0.02
46) Acenaphthene-d10	9.099	164	1699566	40.00	ppm	0.03
70) Phenanthrene-d10	11.977	188	3028418	40.00	ppm	0.04
85) Chrysene-d12	17.571	240	1943668	40.00	ppm	0.04
94) Perylene-d12	20.427	264	1080054	40.00	ppm	0.04
System Monitoring Compounds						
10) 2-Fluorophenol	4.130	112	4410158	183.16	ppm	-0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 183.16%#			
12) Phenol-d5	4.922	99	4918908	174.88	ppm	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 174.88%#			
26) Nitrobenzene-d5	5.719	82	2769246	87.92	ppm	0.01
Spiked Amount 50.000	Range 29 - 115		Recovery = 175.84%#			
50) 2-Fluorobiphenyl	7.976	172	4964734	89.28	ppm	0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 178.56%#			
75) 2,4,6-Tribromophenol	10.623	330	1374666	174.98	ppm	0.02
Spiked Amount 100.000	Range 32 - 128		Recovery = 174.98%#			
88) Terphenyl-d14	15.378	244	4939286	98.41	ppm	0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 196.82%#			
Target Compounds						Qvalue
3) 1,4-Dioxane	2.547	88	484893	47.27	ppm	98
4) N-nitrosodimethylamine	2.889	42	679946	51.54	ppm	96
5) Pyridine	2.873	79	1159742m	42.74	ppm	
6) 2-Picoline	3.590	93	1433678m	45.24	ppm	
7) N-Nitrosodiethylamine	4.296	102	694020	48.49	ppm	97
8) Benzaldehyde	4.793	106	380204	48.95	ppm	98
9) Aniline	4.895	93	1633934	48.71	ppm	92
11) bis(2-Chloroethyl)ether	4.938	93	1363201m	47.61	ppm	
13) Phenol	4.932	94	1534585	48.37	ppm	93
14) 2-Chlorophenol	5.023	128	1237213	49.82	ppm	97
15) 1,3-Dichlorobenzene	5.120	146	1501637	49.37	ppm	98
16) 1,4-Dichlorobenzene	5.184	146	1403484	49.36	ppm	99
17) 1,2-Dichlorobenzene	5.328	146	1280371	48.14	ppm	98
18) Benzyl alcohol	5.323	108	808219	47.48	ppm	94
19) bis(2-chloroisopropyl)...	5.419	45	2610664	49.35	ppm	98
20) 2-Methylphenol	5.489	108	1262560m	47.96	ppm	
21) Acetophenone	5.564	105	1653222	49.17	ppm #	80
22) Hexachloroethane	5.649	117	570818	50.63	ppm	99
23) N-Nitroso-di-n-propyla...	5.590	70	815613	43.81	ppm	77
24) 3&4-Methylphenol	5.612	108	1150218	47.21	ppm	87
27) Nitrobenzene	5.740	77	1384485	46.29	ppm	99
28) Isophorone	5.981	82	2951235	47.90	ppm	99
29) 2-Nitrophenol	6.050	139	701219	49.30	ppm	96
30) 2,4-Dimethylphenol	6.125	107	1328148	48.72	ppm	96
31) bis(2-Chloroethoxy)met...	6.189	93	1510834m	44.45	ppm	
32) Benzoic Acid	6.328	105	497904	45.68	ppm	94
33) 2,4-Dichlorophenol	6.355	162	1063735	49.87	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 1,2,4-Trichlorobenzene	6.414	180	1173936	48.75	ppm	99
35) Naphthalene	6.510	128	3291020	46.76	ppm	100
36) 4-Chloroaniline	6.574	127	1374974	47.43	ppm	97
37) 2,6-Dichlorophenol	6.596	162	943956	48.43	ppm	98
38) Hexachloropropene	6.612	213	594236	51.28	ppm	98
39) Hexachlorobutadiene	6.655	225	690608	46.61	ppm	99
40) Caprolactam	7.099	113	482935	48.44	ppm	98
41) N-Nitrosodi-n-butylamine	7.008	84	1018203	45.45	ppm	98
42) 4-Chloro-3-methylphenol	7.270	107	1092982	49.05	ppm	97
43) 2-Methylnaphthalene	7.414	142	2345461	49.05	ppm	98
44) 1-Methylnaphthalene	7.559	142	2271615	48.58	ppm	99
45) 1,2,4,5-Tetrachloroben...	7.671	216	1105128	50.30	ppm	100
47) Hexachlorocyclopentadiene	7.655	237	260343	39.91	ppm	100
48) 2,4,6-Trichlorophenol	7.874	196	822873	49.45	ppm	99
49) 2,4,5-Trichlorophenol	7.981	196	725049	48.08	ppm	99
51) 1,1'-Biphenyl	8.142	154	2724164	44.33	ppm	100
52) 2-Chloronaphthalene	8.174	162	3071886	49.04	ppm	96
53) 2-Nitroaniline	8.345	65	863298	45.90	ppm	93
54) Acenaphthylene	8.853	152	3782072	46.99	ppm	100
55) Dimethylphthalate	8.676	163	3182714	47.08	ppm	100
56) m-Dinitrobenzene	8.735	168	492518	48.45	ppm	93
57) 2,6-Dinitrotoluene	8.767	165	707816	46.88	ppm	87
58) Acenaphthene	9.169	153	2396350	46.20	ppm	100
59) 3-Nitroaniline	9.067	138	699591	49.25	ppm	97
60) 2,4-Dinitrophenol	9.281	184	315530	47.53	ppm	95
61) Dibenzofuran	9.479	168	3204998	48.56	ppm	98
62) Pentachlorobenzene	9.420	250	1044813	48.42	ppm	99
63) 2,4-Dinitrotoluene	9.505	165	904624	49.15	ppm	89
64) 4-Nitrophenol	9.602	109	284689m	47.34	ppm	
65) 2,3,4,6-Tetrachlorophenol	9.677	232	594868	52.11	ppm	99
66) Fluorene	10.115	166	2438518	46.69	ppm	98
67) 4-Chlorophenyl-phenyle...	10.131	204	1193122	45.26	ppm	99
68) Diethylphthalate	9.971	149	3051798	47.05	ppm	99
69) 4-Nitroaniline	10.244	138	653855	47.94	ppm	97
71) 4,6-Dinitro-2-methylph...	10.308	198	500652	43.94	ppm	96
72) n-Nitrosodiphenylamine	10.388	169	2583058	44.84	ppm	99
73) 1,2-Diphenylhydrazine	10.447	77	3284446	44.27	ppm	98
74) Diphenylamine	10.388	169	2583058	44.84	ppm	99
76) 4-Bromophenyl-phenylether	11.094	248	783179	43.56	ppm	98
77) Hexachlorobenzene	11.228	284	820666	46.13	ppm	99
78) Atrazine	11.506	200	330704	27.73	ppm	98
79) Pentachlorophenol	11.682	266	337422	53.09	ppm	99
80) Phenanthrene	12.035	178	3644122	45.21	ppm	99
81) Anthracene	12.142	178	4117295	47.46	ppm	100
82) Carbazole	12.495	167	3700728	47.28	ppm	99
83) Di-n-butylphthalate	13.298	149	5308815	47.97	ppm	99
84) Fluoranthene	14.506	202	4219217	47.20	ppm	99
86) Benzidine	14.827	184	775736	45.35	ppm	99
87) Pyrene	14.977	202	4374641	53.38	ppm	100
89) Butylbenzylphthalate	16.453	149	2061232	51.50	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
90) 3,3'-Dichlorobenzidine	17.523	252	772895	48.60 ppm	99
91) Benzo[a]anthracene	17.545	228	2909009	48.72 ppm	99
92) Chrysene	17.625	228	2753721	48.73 ppm	100
93) bis(2-Ethylhexyl)phtha...	17.721	149	2787668	52.42 ppm	99
95) Di-n-octylphthalate	19.015	149	4125754	60.47 ppm	98
96) Benzo[b]fluoranthene	19.705	252	2030574	50.77 ppm	95
97) Benzo[k]fluoranthene	19.753	252	1808768	50.86 ppm	98
98) Benzo[a]pyrene	20.320	252	1704680	51.03 ppm	97
99) Indeno[1,2,3-cd]pyrene	22.888	276	1172846	44.14 ppm	89
100) Dibenz[a,h]anthracene	22.920	278	1106864	49.59 ppm	95
101) Benzo[g,h,i]perylene	23.588	276	790848m	36.91 ppm	

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

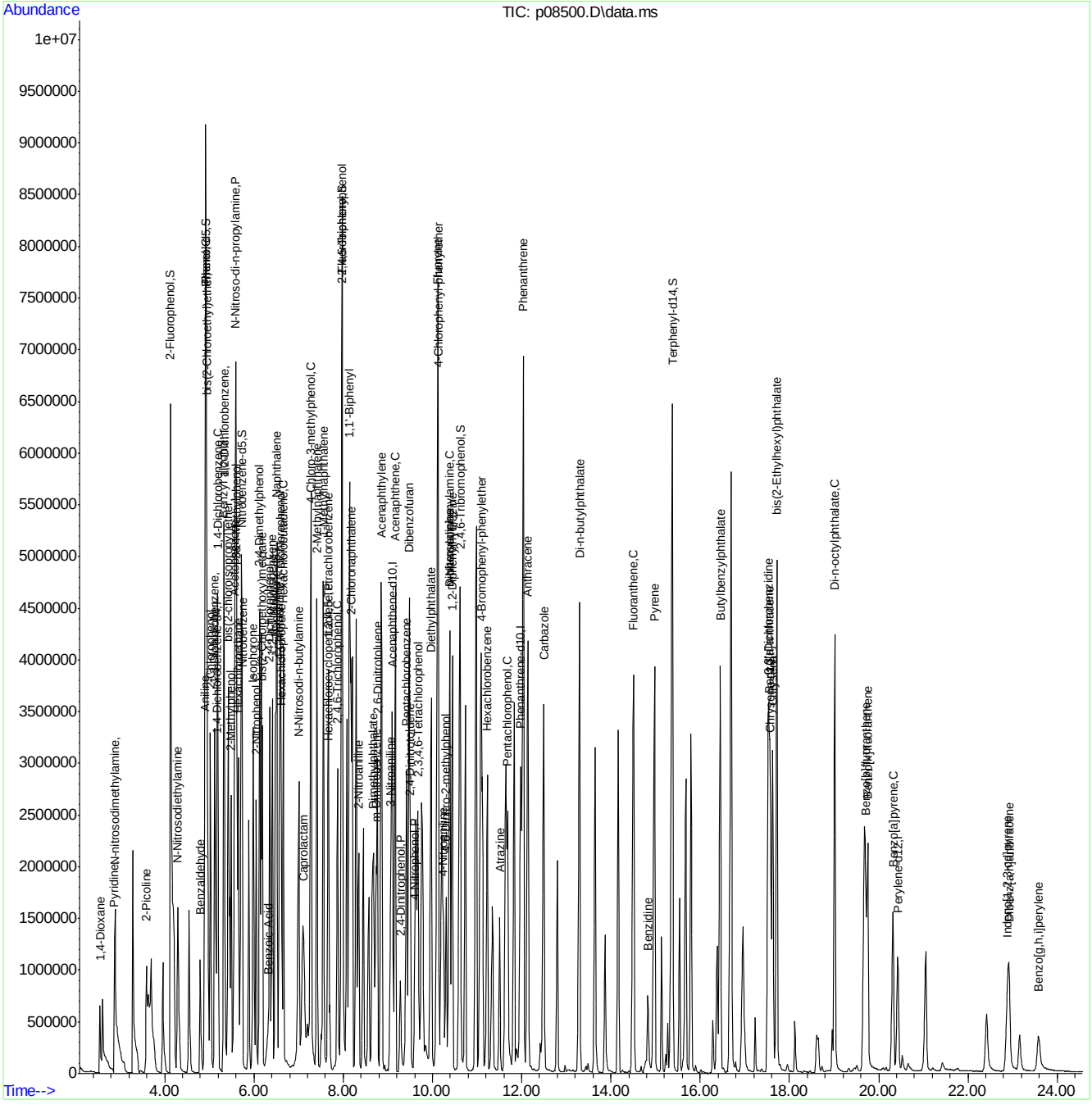
8.6.25

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On    :  4 Feb 2010   5:04 am
Operator  : garyj
Sample    : ecc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 25   Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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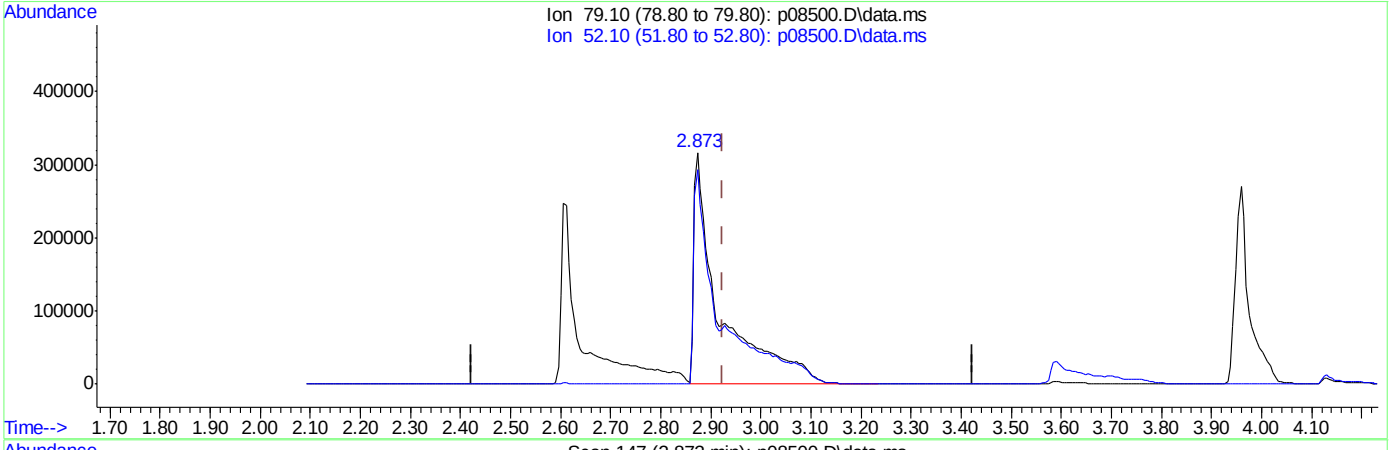
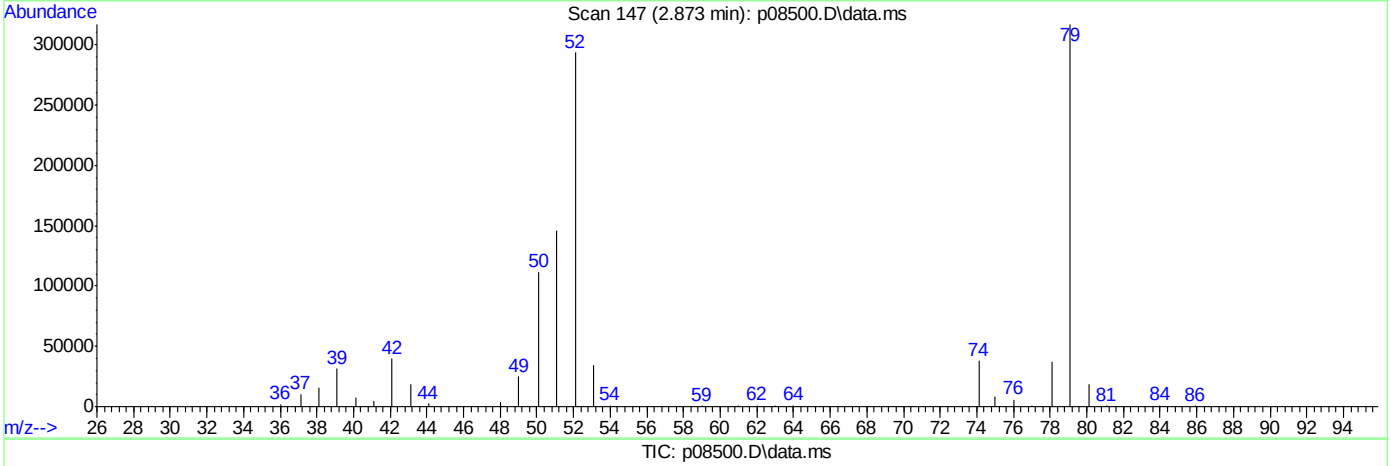




(5) Pyridine ( )

2.873min (-0.050) 42.74ppm m

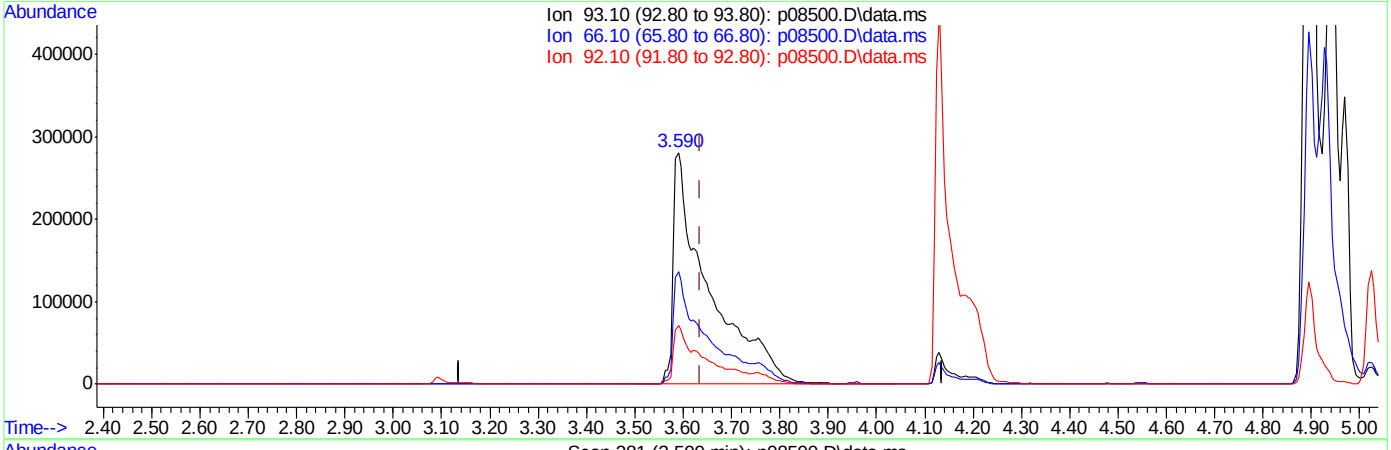
response 1159742

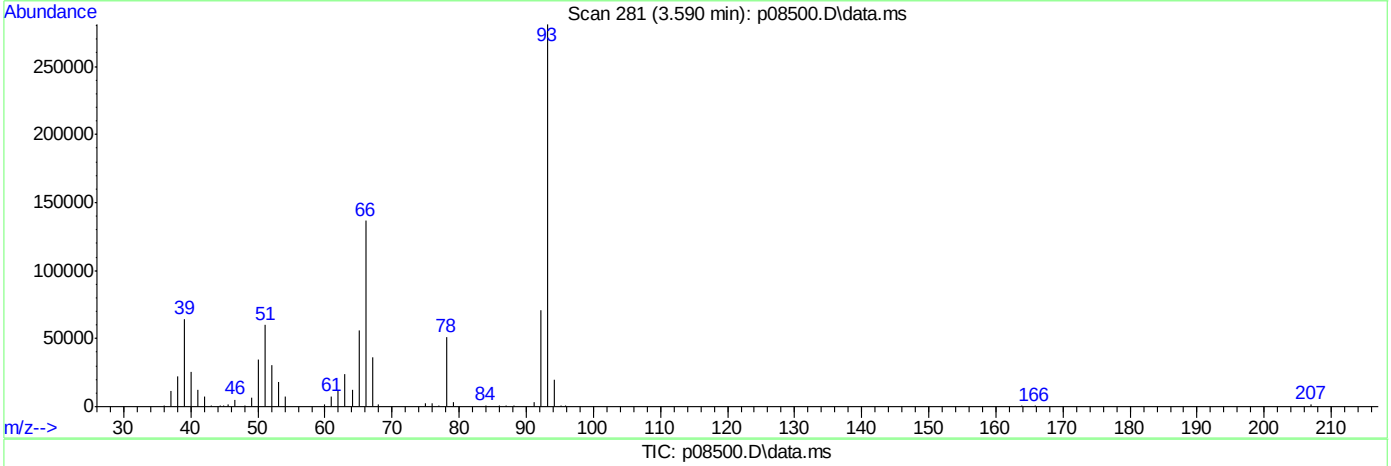
Ion	Exp%	Act%
79.10	100	100
52.10	94.10	49.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08500.D\data.ms

(6) 2-Picoline

3.590min (-0.047) 45.24ppm m

response 1433678

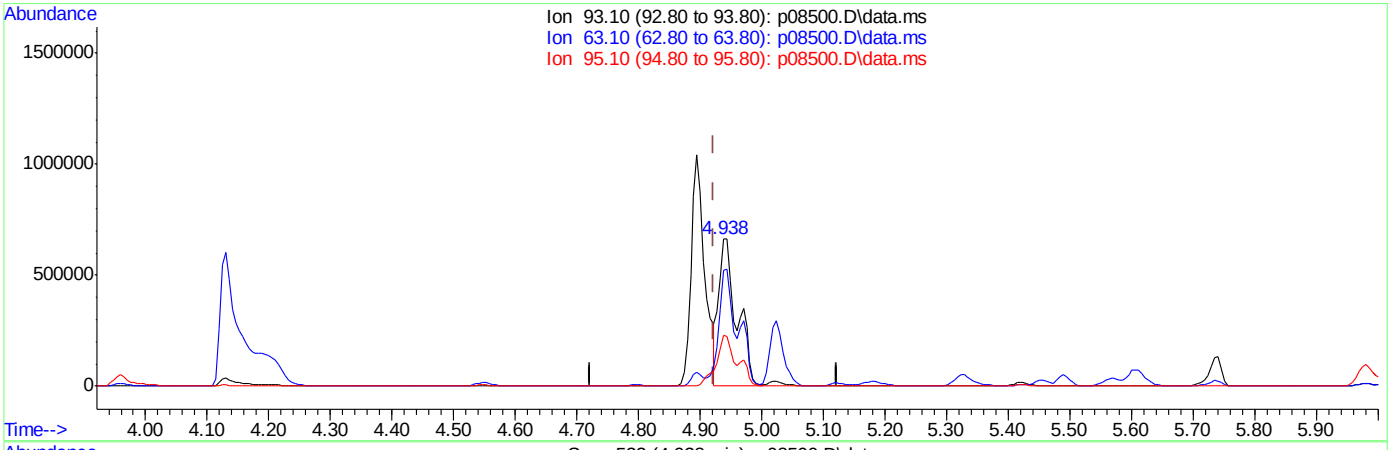
Ion	Exp%	Act%
93.10	100	100
66.10	48.40	42.13
92.10	25.30	18.79#
0.00	0.00	0.00

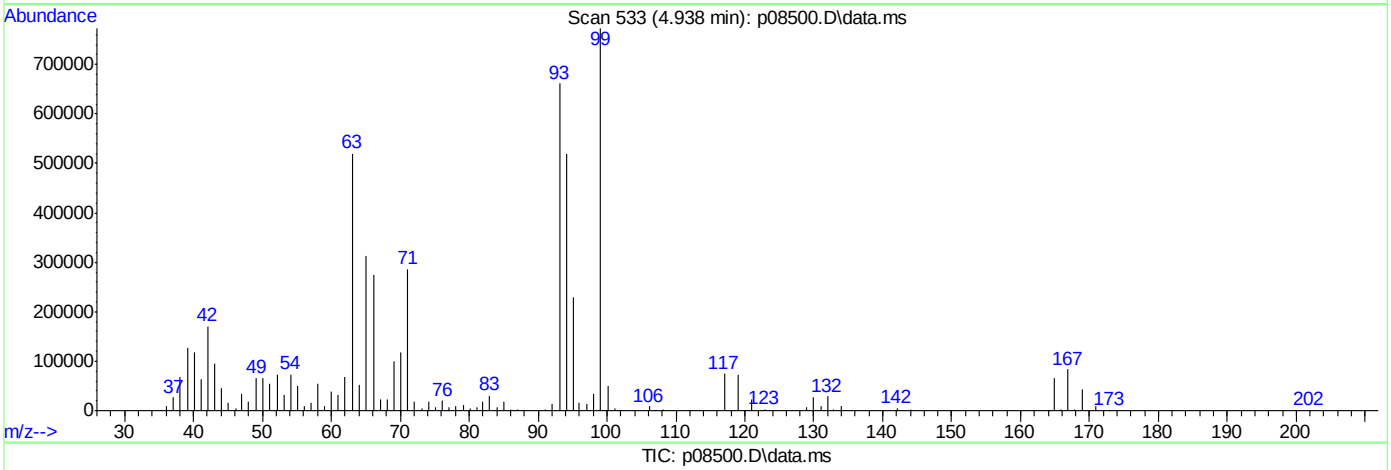
ACCUTEST Laboratories

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08500.D\data.ms

(11) bis(2-Chloroethyl)ether ( )

4.938min (+0.015) 47.61ppm m

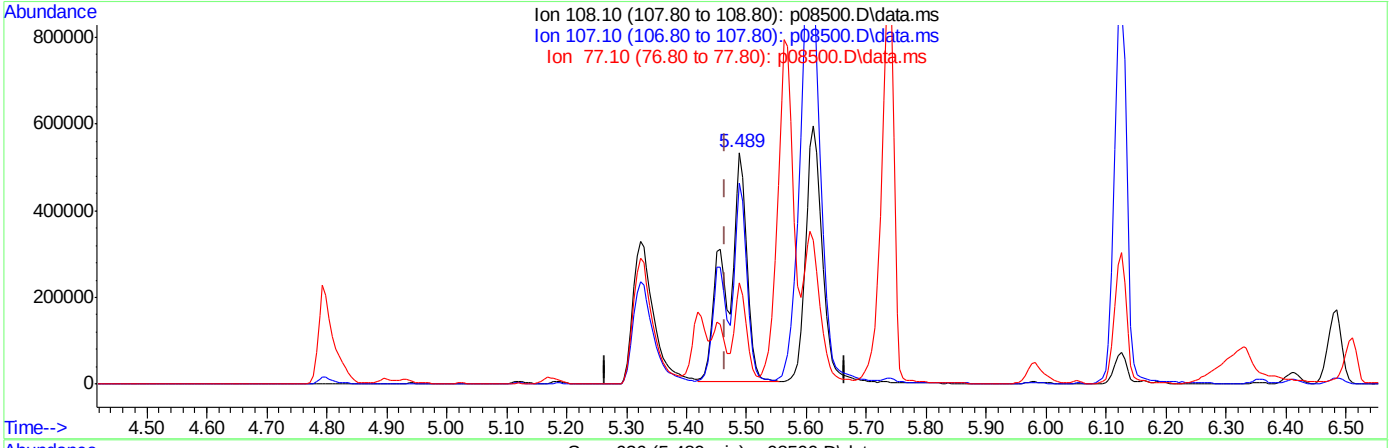
response 1363201

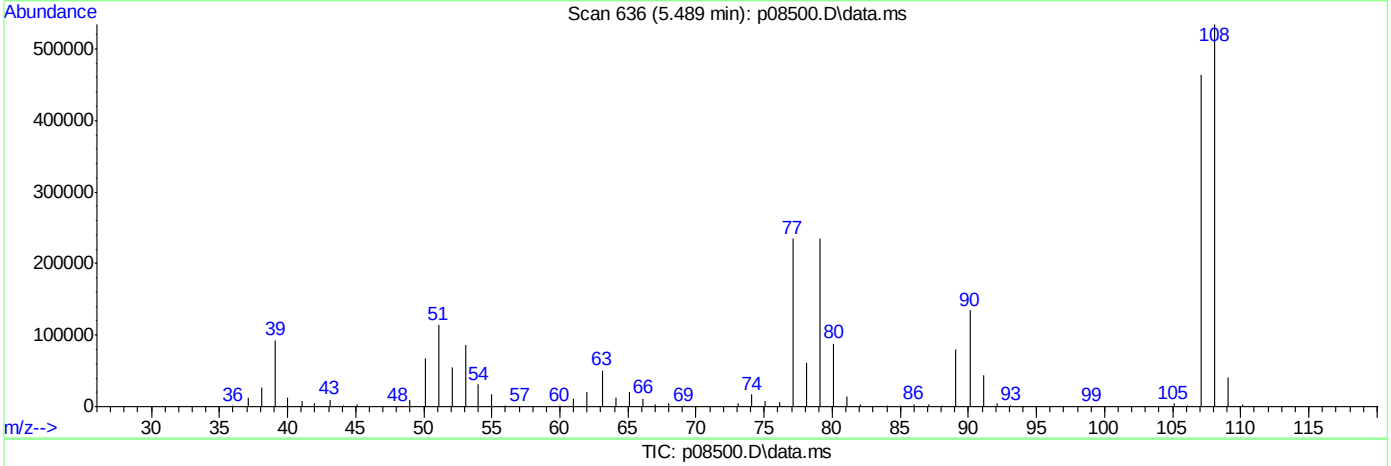
Ion	Exp%	Act%
93.10	100	100
63.10	80.40	52.34
95.10	33.50	30.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On : 4 Feb 2010 5:04 am
Operator : garyj
Sample : ecc393-50
Misc : op13254,Ep403,1000,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08500.D\data.ms

(20) 2-Methylphenol ( )

5.489min (+0.025) 47.96ppm m

response 1262560

Ion	Exp%	Act%
108.10	100	100
107.10	87.60	50.52#
77.10	44.80	24.62
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On    :  4 Feb 2010   5:04 am
Operator  : garyj
Sample    : ecc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 25   Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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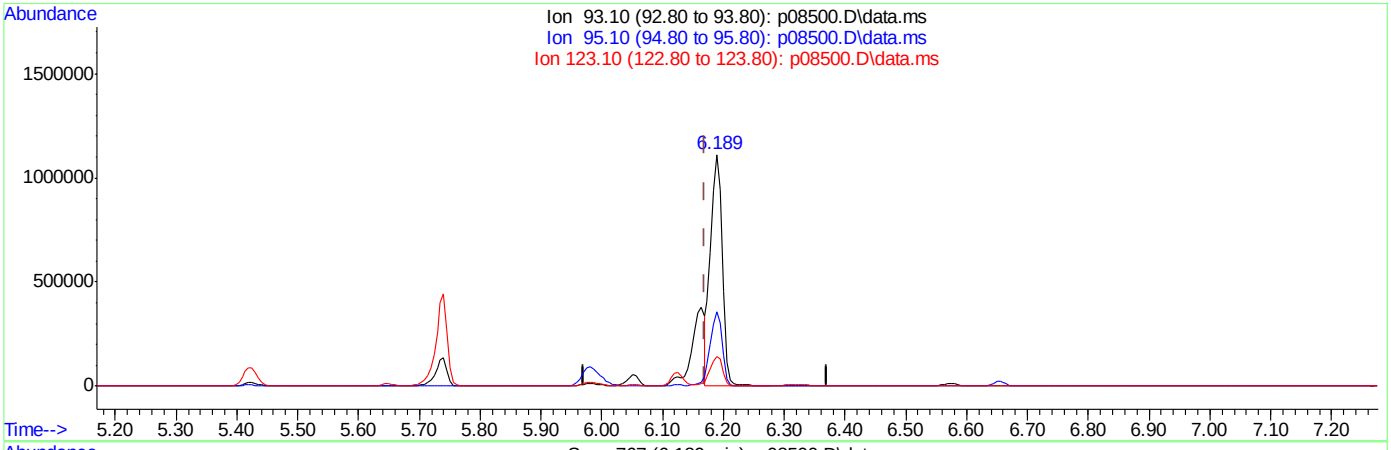

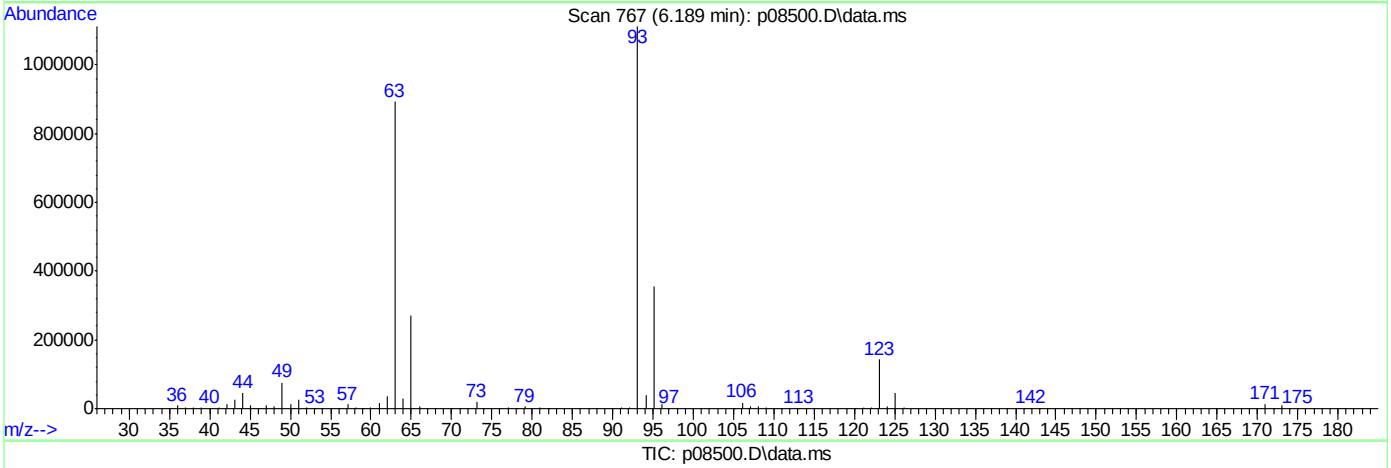

TIC: p08500.D\data.ms

(31) bis(2-Chloroethoxy)methane

6.189min (+0.019) 44.45ppm m

response 1510834

Ion	Exp%	Act%
93.10	100	100
95.10	32.20	32.77
123.10	13.00	13.52
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On    :  4 Feb 2010   5:04 am
Operator  : garyj
Sample    : ecc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 25   Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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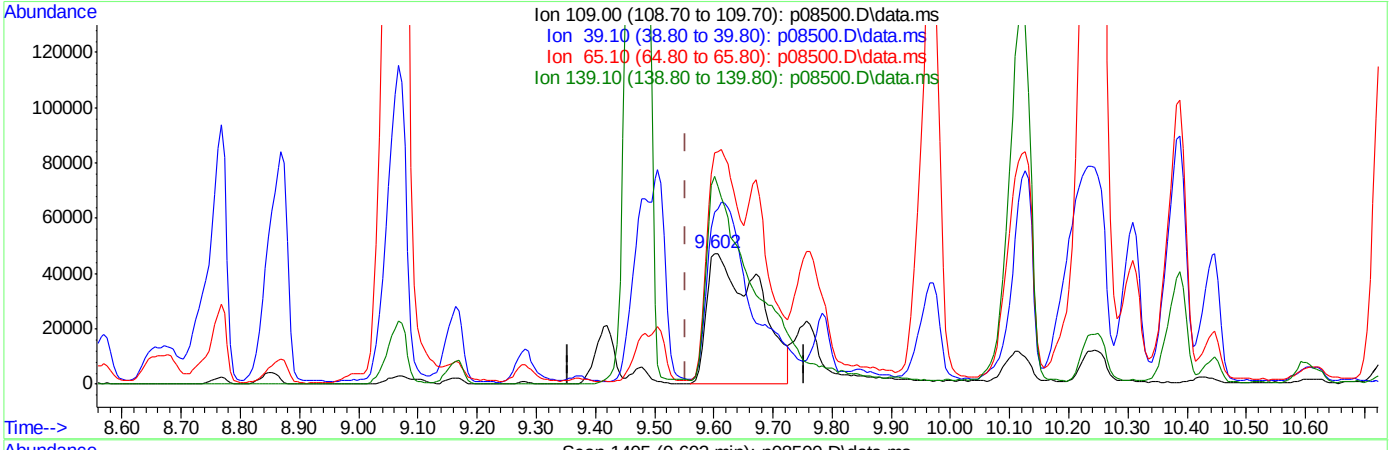

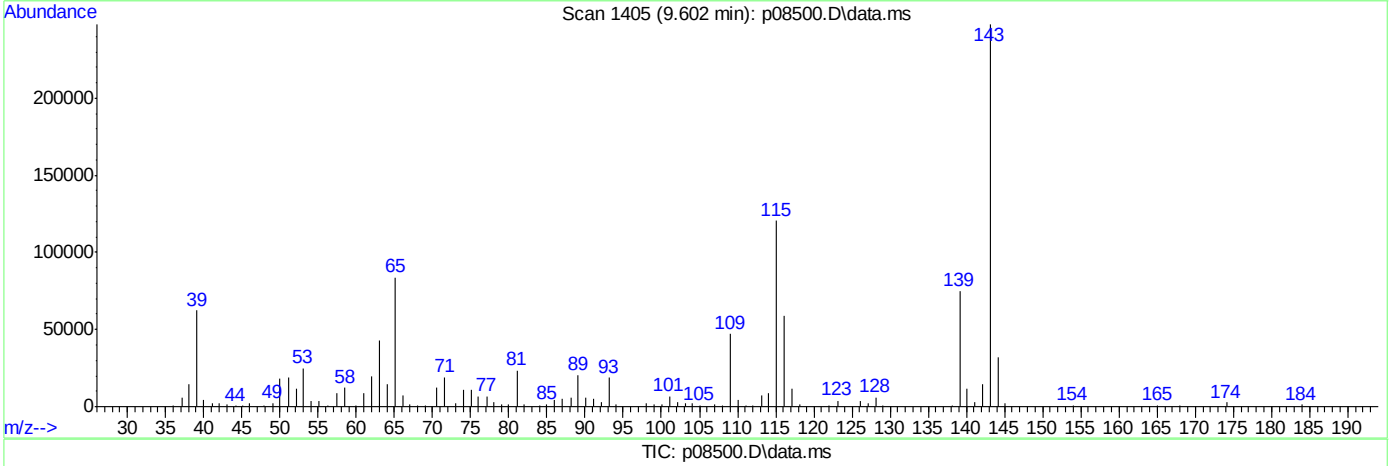

(64) 4-Nitrophenol (P)

9.602min (+0.048) 47.34ppm m

response 284689

Ion	Exp%	Act%
109.00	100	100
39.10	122.90	114.99
65.10	167.80	106.28#
139.10	150.80	137.48

ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep403\
Data File : p08500.D
Acq On    :  4 Feb 2010   5:04 am
Operator  : garyj
Sample    : ecc393-50
Misc      : op13254,Ep403,1000,,,1,1,water
ALS Vial  : 25   Sample Multiplier: 1

Quant Time: Feb 04 13:03:27 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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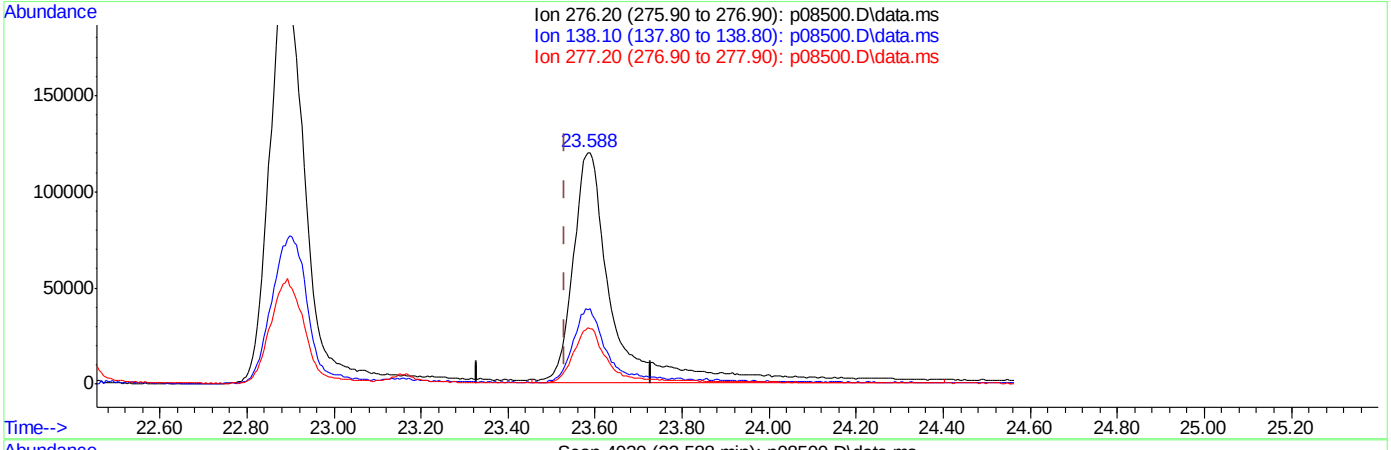
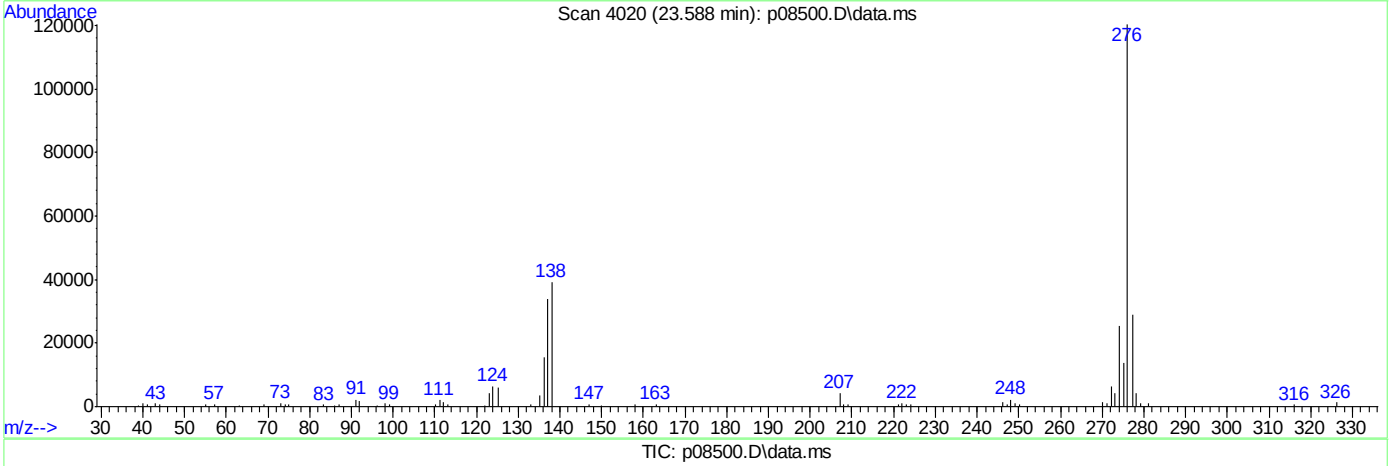




(101) Benzo[g,h,i]perylene

23.588min (+0.059) 36.91ppm m

response 790848

Ion	Exp%	Act%
276.20	100	100
138.10	26.40	23.77
277.20	24.00	18.61
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.162	152	536430	40.00	ppm	0.01
25) Naphthalene-d8	6.467	136	1978930	40.00	ppm	0.00
46) Acenaphthene-d10	9.083	164	1302379	40.00	ppm	0.01
70) Phenanthrene-d10	11.955	188	2192963	40.00	ppm	0.02
85) Chrysene-d12	17.528	240	1249474	40.00	ppm	0.00
94) Perylene-d12	20.385	264	826140	40.00	ppm	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.125	112	4039138	204.01	ppm	-0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 204.01%#			
12) Phenol-d5	4.911	99	4468356	193.20	ppm	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 193.20%#			
26) Nitrobenzene-d5	5.708	82	2471791	99.44	ppm	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 198.88%#			
50) 2-Fluorobiphenyl	7.960	172	4331162	102.83	ppm	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 205.66%#			
75) 2,4,6-Tribromophenol	10.602	330	1129803	198.60	ppm	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 198.60%#			
88) Terphenyl-d14	15.346	244	3679121	114.03	ppm	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 228.06%#			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.627	79	1126405m	52.75	ppm	
3) 1,4-Dioxane	2.558	88	438930	52.03	ppm	83
4) N-nitrosodimethylamine	2.894	42	568651	52.43	ppm	96
5) Pyridine	2.878	79	1150795m	51.57	ppm	
6) 2-Picoline	3.590	93	1279961m	49.12	ppm	
7) N-Nitrosodiethylamine	4.290	102	584949	49.71	ppm	98
8) Benzaldehyde	4.788	106	297744	46.62	ppm	98
9) Aniline	4.890	93	1432018	51.92	ppm	92
11) bis(2-Chloroethyl)ether	4.932	93	1107475m	47.04	ppm	
13) Phenol	4.922	94	1329313	50.95	ppm	92
14) 2-Chlorophenol	5.018	128	1058404	51.83	ppm	97
15) 1,3-Dichlorobenzene	5.114	146	1274271	50.95	ppm	98
16) 1,4-Dichlorobenzene	5.178	146	1206990	51.62	ppm	99
17) 1,2-Dichlorobenzene	5.317	146	1098757	50.24	ppm	97
18) Benzyl alcohol	5.312	108	695694	49.71	ppm	94
19) bis(2-chloroisopropyl)...	5.408	45	2252326	51.78	ppm	97
20) 2-Methylphenol	5.473	108	1111032m	51.32	ppm	
21) Acetophenone	5.553	105	1368076	49.49	ppm #	80
22) Hexachloroethane	5.638	117	489745	52.82	ppm	99
23) N-Nitroso-di-n-propyla...	5.574	70	699040	45.67	ppm #	69
24) 3&4-Methylphenol	5.601	108	1021041	54.14	ppm	90
27) Nitrobenzene	5.724	77	1179348	49.96	ppm	99
28) Isophorone	5.965	82	2382789	49.00	ppm	99
29) 2-Nitrophenol	6.039	139	585956	52.20	ppm	96
30) 2,4-Dimethylphenol	6.109	107	1105652	51.39	ppm	96
31) bis(2-Chloroethoxy)met...	6.179	93	1265312m	47.17	ppm	
32) Benzoic Acid	6.296	105	356297	42.38	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 2,4-Dichlorophenol	6.344	162	900461	53.49	ppm	99
34) 1,2,4-Trichlorobenzene	6.398	180	978984	51.51	ppm	99
35) Naphthalene	6.494	128	2754889	49.59	ppm	100
36) 4-Chloroaniline	6.564	127	1189962	52.02	ppm	98
37) 2,6-Dichlorophenol	6.580	162	797506	51.85	ppm	98
38) Hexachloropropene	6.601	213	517557	56.60	ppm	98
39) Hexachlorobutadiene	6.644	225	588495	50.33	ppm	99
40) Caprolactam	7.077	113	383416	48.73	ppm	98
41) N-Nitrosodi-n-butylamine	6.986	84	820616	46.41	ppm	98
42) 4-Chloro-3-methylphenol	7.254	107	920040	52.32	ppm	97
43) 2-Methylnaphthalene	7.398	142	1936852	51.32	ppm	98
44) 1-Methylnaphthalene	7.542	142	1883817	51.05	ppm	99
45) 1,2,4,5-Tetrachloroben...	7.655	216	901173	51.97	ppm	99
47) Hexachlorocyclopentadiene	7.644	237	237491	45.99	ppm	100
48) 2,4,6-Trichlorophenol	7.863	196	659677	51.73	ppm	99
49) 2,4,5-Trichlorophenol	7.970	196	576376	49.88	ppm	98
51) 1,1'-Biphenyl	8.125	154	2256076	47.91	ppm	100
52) 2-Chloronaphthalene	8.152	162	2468024	51.42	ppm	97
53) 2-Nitroaniline	8.329	65	684202	47.47	ppm	94
54) Acenaphthylene	8.837	152	3017614	48.93	ppm	99
55) Dimethylphthalate	8.650	163	2498706	48.24	ppm	100
56) m-Dinitrobenzene	8.714	168	380208	48.81	ppm	91
57) 2,6-Dinitrotoluene	8.746	165	565448	48.87	ppm	87
58) Acenaphthene	9.147	153	1953330	49.15	ppm	99
59) 3-Nitroaniline	9.051	138	536092	49.25	ppm	100
60) 2,4-Dinitrophenol	9.259	184	200096	40.77	ppm	92
61) Dibenzofuran	9.457	168	2586250	51.14	ppm	98
62) Pentachlorobenzene	9.404	250	831767	50.30	ppm	99
63) 2,4-Dinitrotoluene	9.484	165	695619	49.32	ppm	88
64) 4-Nitrophenol	9.591	109	194723m	42.35	ppm	
65) 2,3,4,6-Tetrachlorophenol	9.655	232	456027	52.13	ppm	100
66) Fluorene	10.099	166	1968129	49.17	ppm	98
67) 4-Chlorophenyl-phenyle...	10.110	204	982106	48.62	ppm	99
68) Diethylphthalate	9.944	149	2440290	49.09	ppm	99
69) 4-Nitroaniline	10.206	138	428264	40.98	ppm	97
71) 4,6-Dinitro-2-methylph...	10.276	198	342731	41.59	ppm	96
72) n-Nitrosodiphenylamine	10.361	169	2018502	48.39	ppm	100
73) 1,2-Diphenylhydrazine	10.425	77	2614220	48.66	ppm	98
74) Diphenylamine	10.361	169	2018502	48.39	ppm	100
76) 4-Bromophenyl-phenylether	11.073	248	626017	48.09	ppm	98
77) Hexachlorobenzene	11.206	284	655811	50.91	ppm	99
78) Atrazine	11.490	200	494916	57.31	ppm	99
79) Pentachlorophenol	11.656	266	242057	52.63	ppm	99
80) Phenanthrene	12.009	178	2856638	48.94	ppm	99
81) Anthracene	12.110	178	3162697	50.35	ppm	100
82) Carbazole	12.469	167	2570206	45.35	ppm	100
83) Di-n-butylphthalate	13.271	149	4227220	53.42	ppm	99
84) Fluoranthene	14.480	202	3042329	47.00	ppm	99
86) Benzidine	14.795	184	460917	41.55	ppm	98
87) Pyrene	14.945	202	3103813	58.91	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	Butylbenzylphthalate	16.421	149	1496099	58.15 ppm	100
90)	3,3'-Dichlorobenzidine	17.486	252	503685	49.27 ppm	100
91)	Benzo[a]anthracene	17.502	228	1957039	50.99 ppm	99
92)	Chrysene	17.582	228	1854082	51.04 ppm	99
93)	bis(2-Ethylhexyl)phtha...	17.689	149	2071536	60.60 ppm	98
95)	Di-n-octylphthalate	18.978	149	2847727	54.57 ppm	98
96)	Benzo[b]fluoranthene	19.662	252	1487960	48.64 ppm	95
97)	Benzo[k]fluoranthene	19.711	252	1308741	48.11 ppm	97
98)	Benzo[a]pyrene	20.278	252	1335937	52.28 ppm	97
99)	Indeno[1,2,3-cd]pyrene	22.834	276	1162263	57.19 ppm	91
100)	Dibenz[a,h]anthracene	22.866	278	1000476	58.60 ppm	96
101)	Benzo[g,h,i]perylene	23.535	276	865070	52.79 ppm	94

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

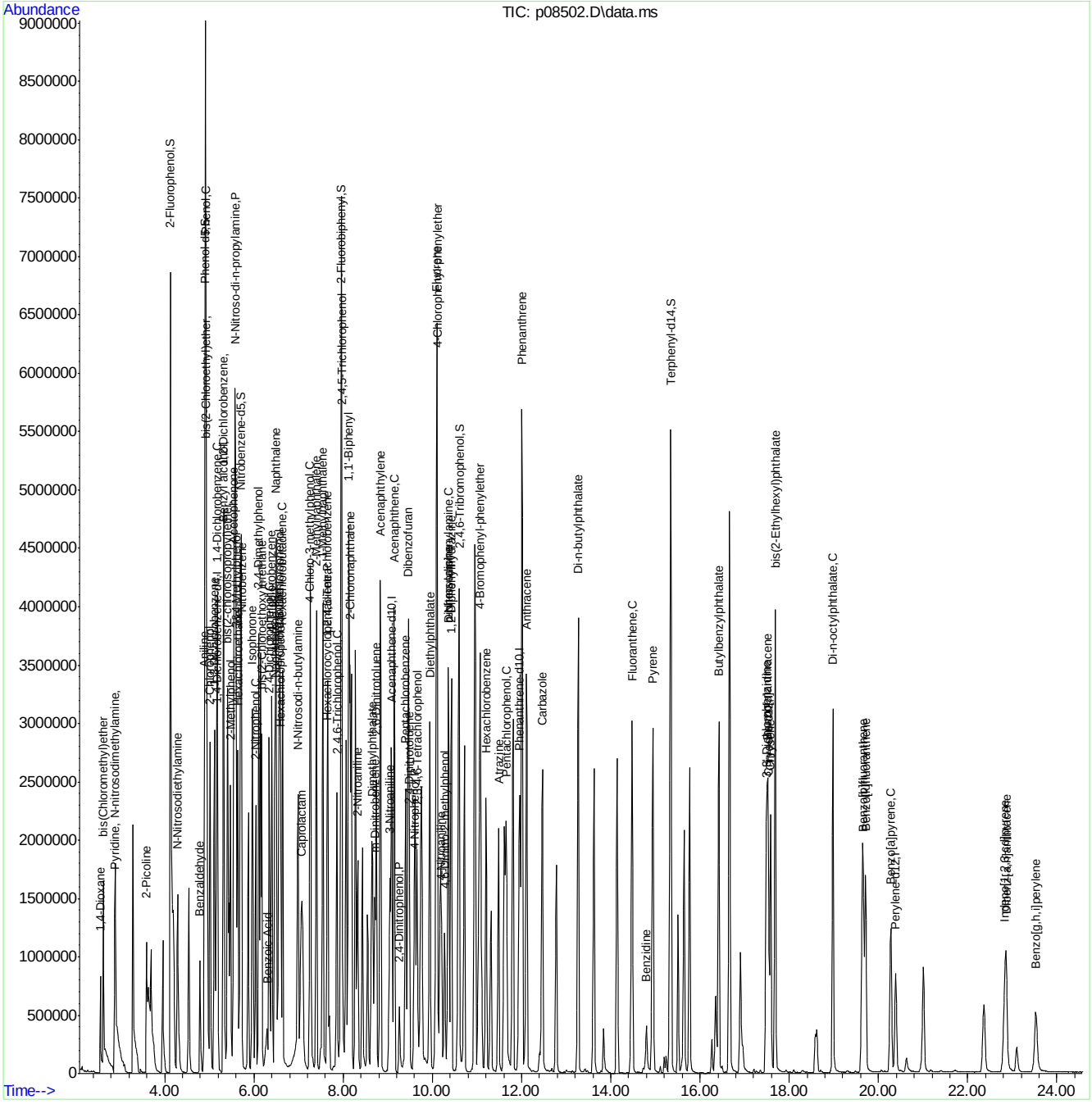
8.6.26

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On    :  4 Feb 2010   9:29 am
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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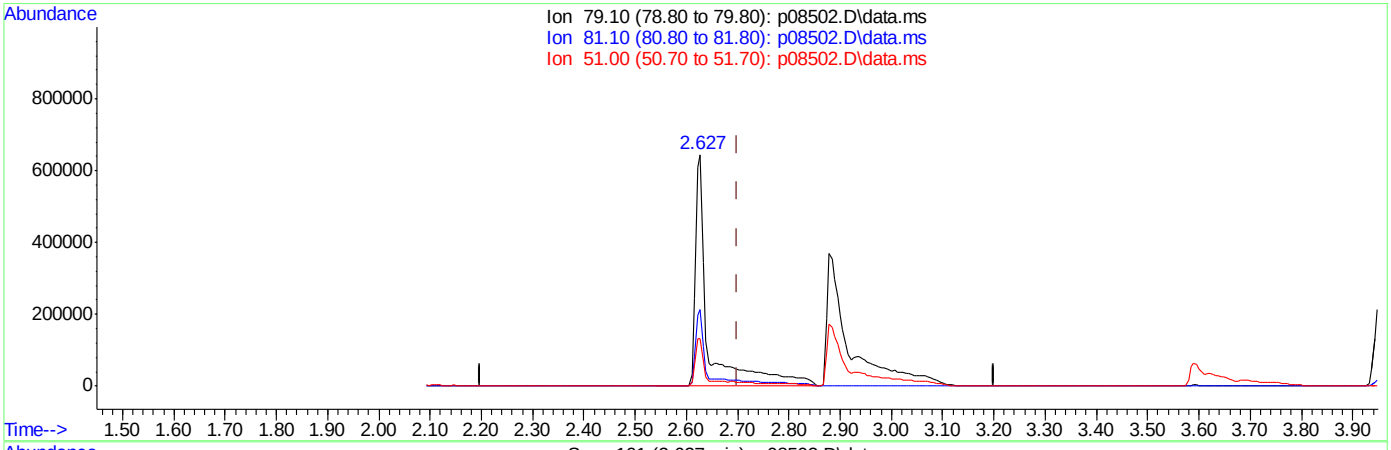
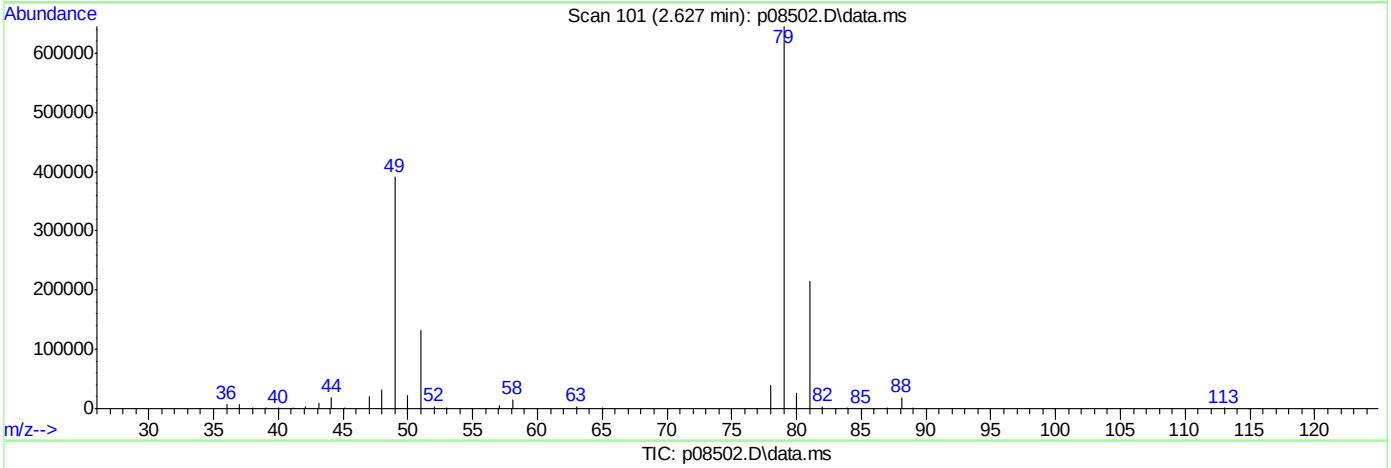




TIC: p08502.D\data.ms

(2) bis(Chloromethyl)ether

2.627min (-0.073) 52.75ppm m

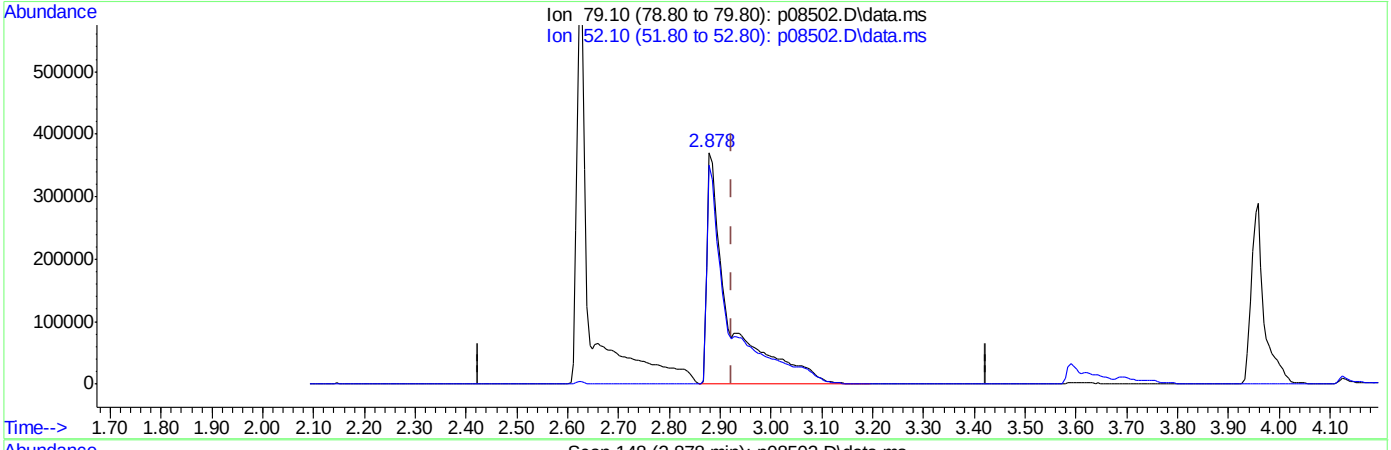
response 1126405

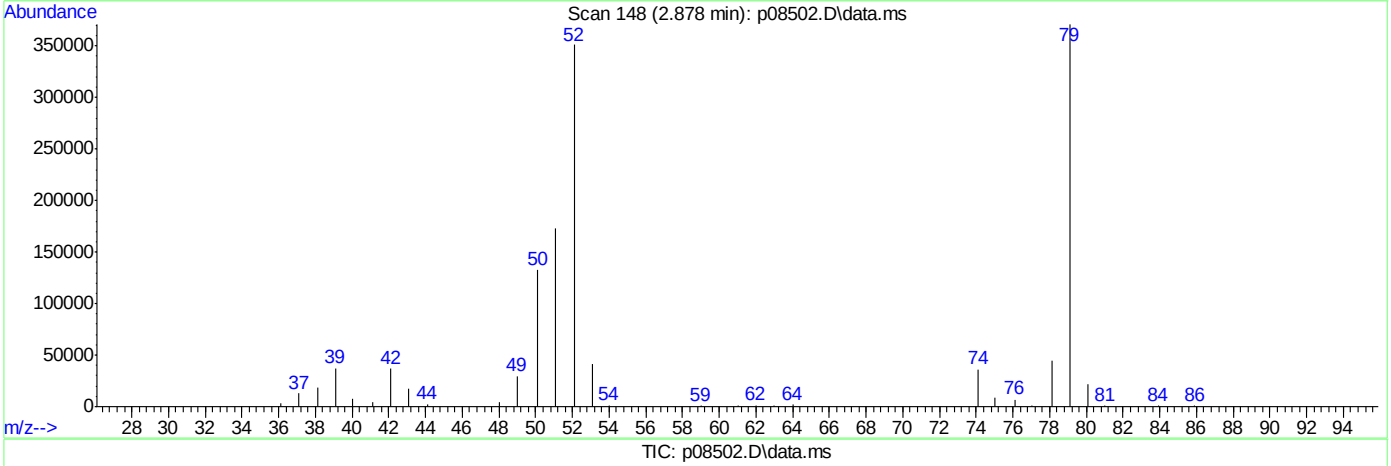
Ion	Exp%	Act%
79.10	100	100
81.10	32.60	19.90
51.00	21.10	12.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(5) Pyridine ( )

2.878min (-0.045) 51.57ppm m

response 1150795

Ion	Exp%	Act%
79.10	100	100
52.10	94.10	57.04#
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST Laboratories T46705

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On    :  4 Feb 2010   9:29 am
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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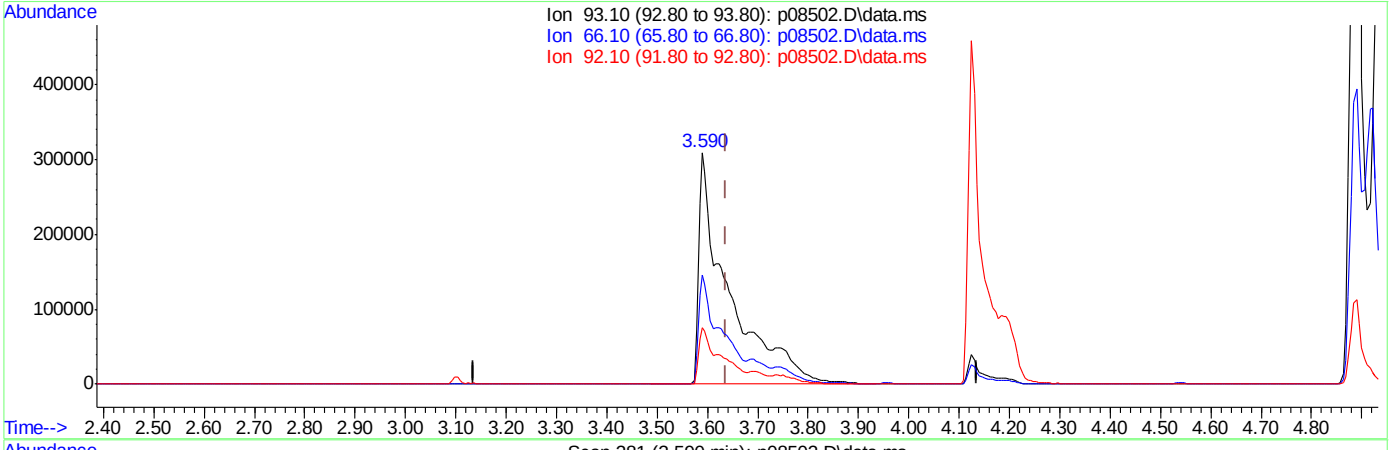

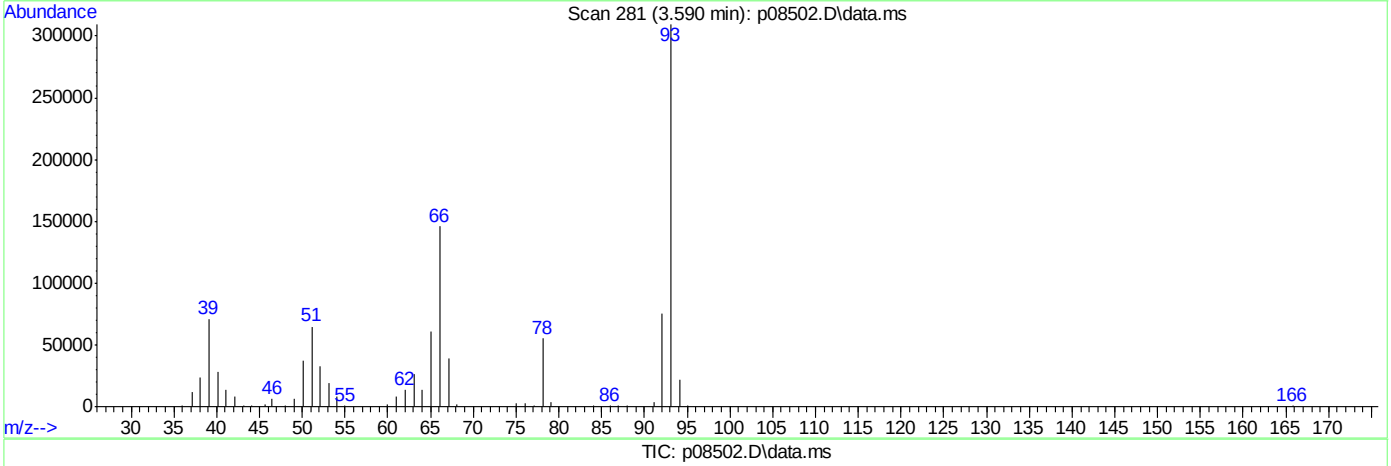

TIC: p08502.D\data.ms

(6) 2-Picoline

3.590min (-0.047) 49.12ppm m

response 1279961

Ion	Exp%	Act%
93.10	100	100
66.10	48.40	34.32#
92.10	25.30	18.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On    :  4 Feb 2010   9:29 am
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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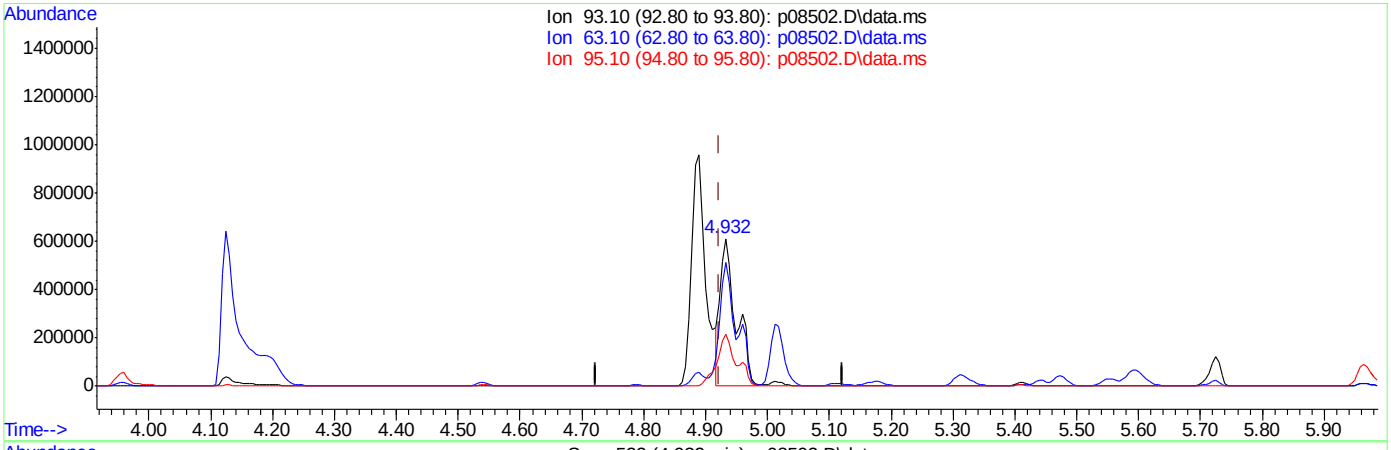

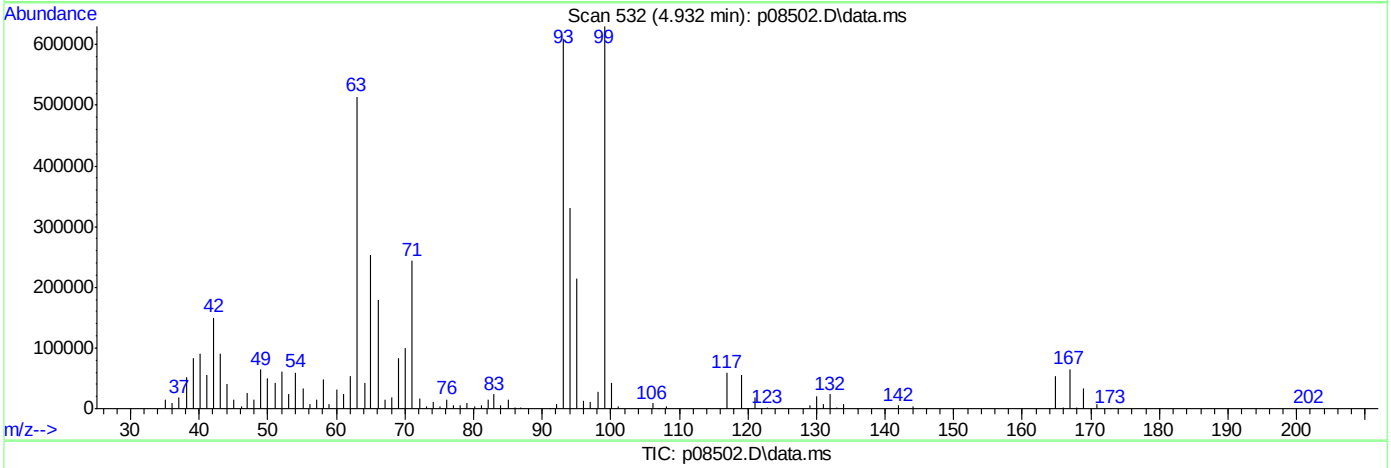

TIC: p08502.D\data.ms

(11) bis(2-Chloroethyl)ether ( )

4.932min (+0.010) 47.04ppm m

response 1107475

Ion	Exp%	Act%
93.10	100	100
63.10	80.40	57.57
95.10	33.50	42.84
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On    :  4 Feb 2010   9:29 am
Operator  : garyj
Sample    : cc393-50
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
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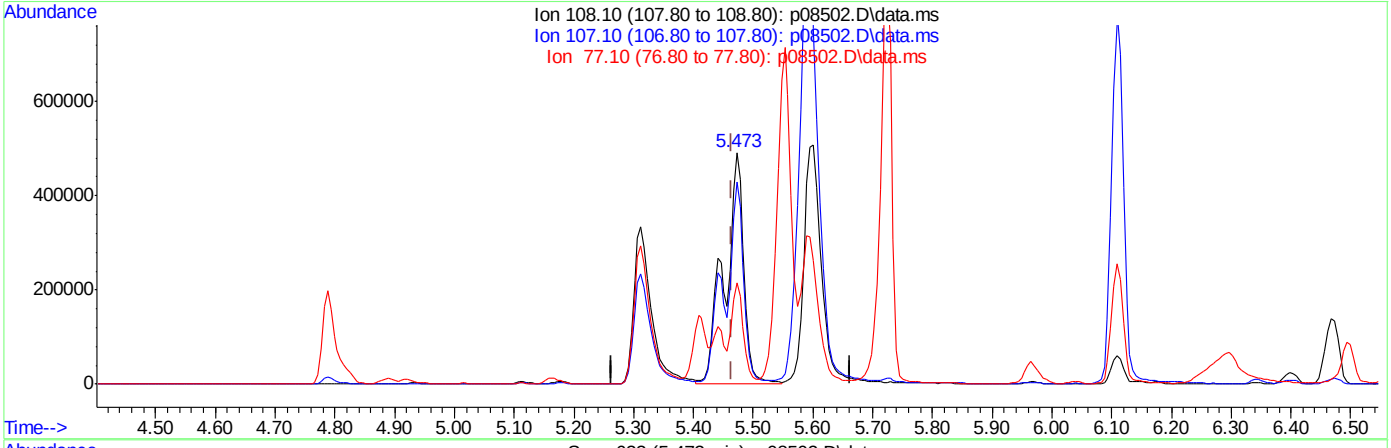
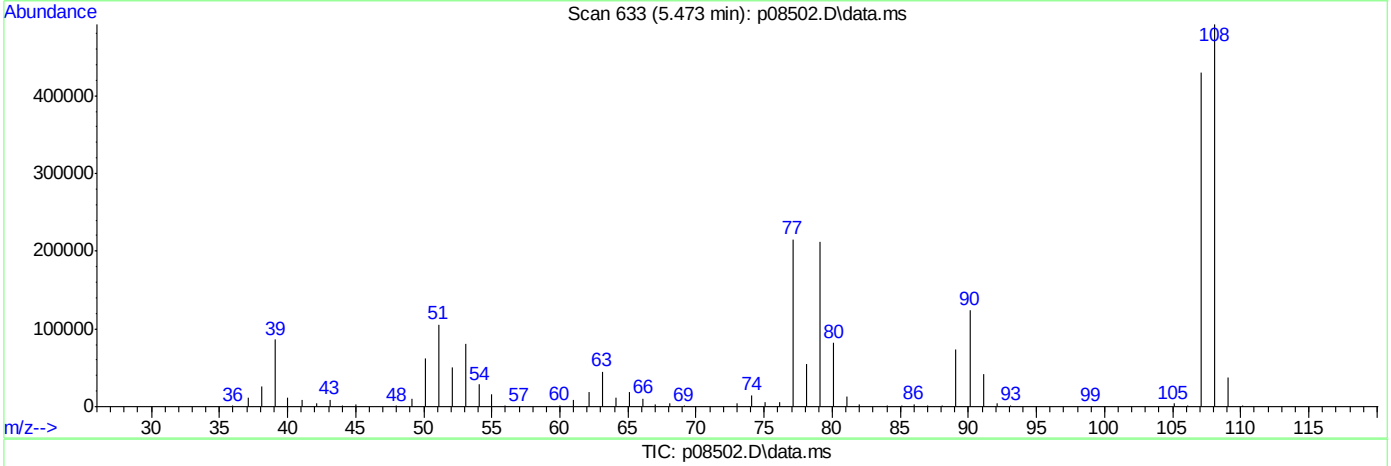




(20) 2-Methylphenol ( )

5.473min (+0.008) 51.32ppm m

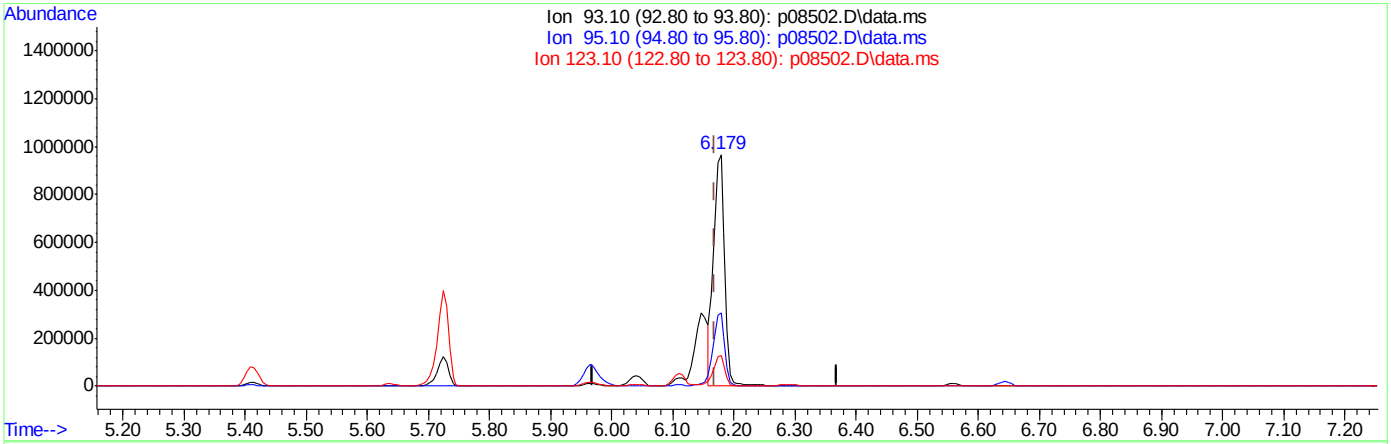
response 1111032

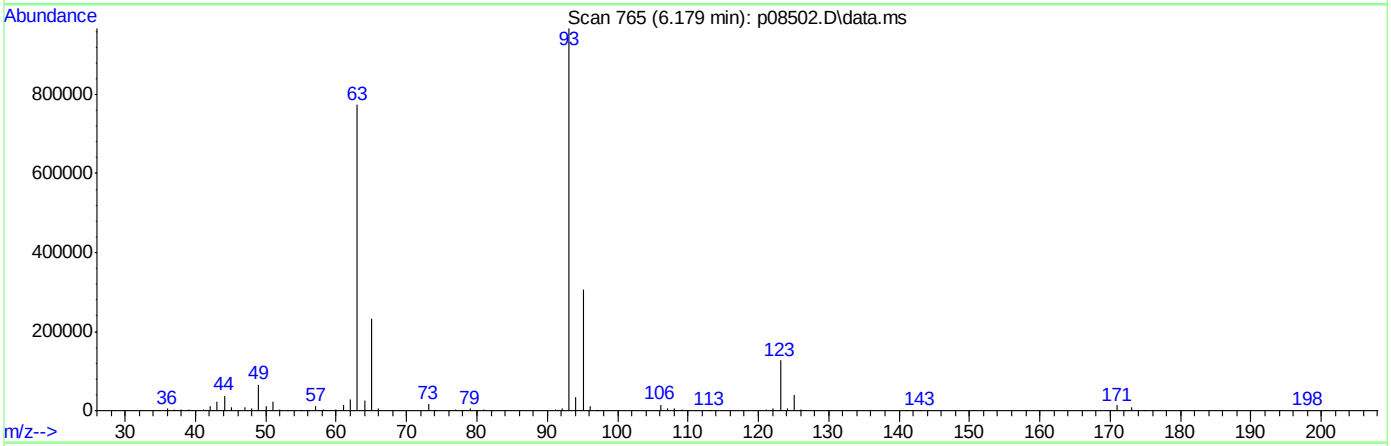
Ion	Exp%	Act%
108.10	100	100
107.10	87.60	52.35#
77.10	44.80	24.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08502.D\data.ms

(31) bis(2-Chloroethoxy)methane

6.179min (+0.009) 47.17ppm m

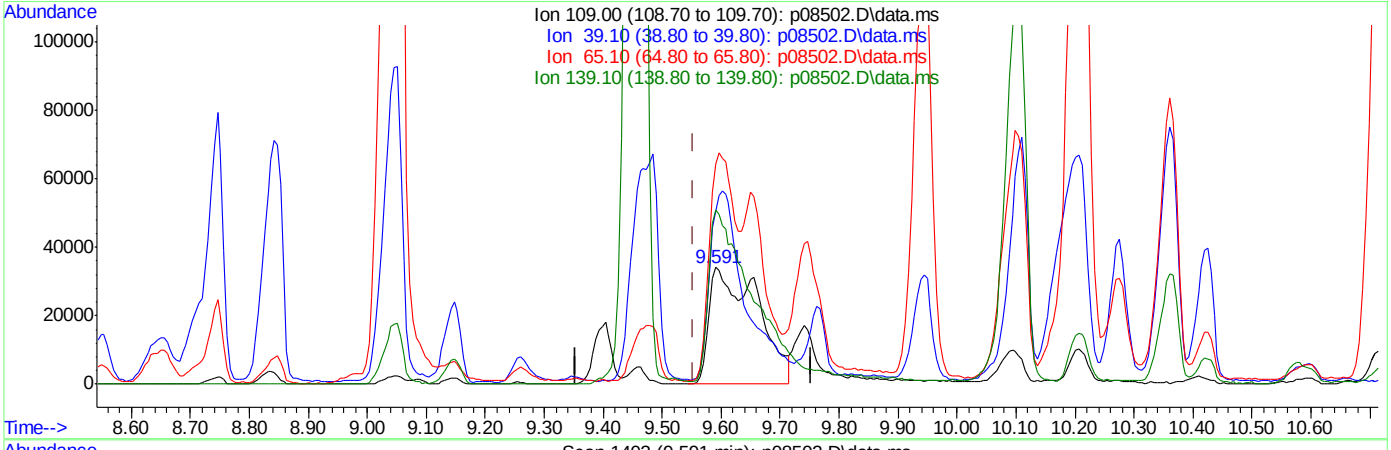
response 1265312

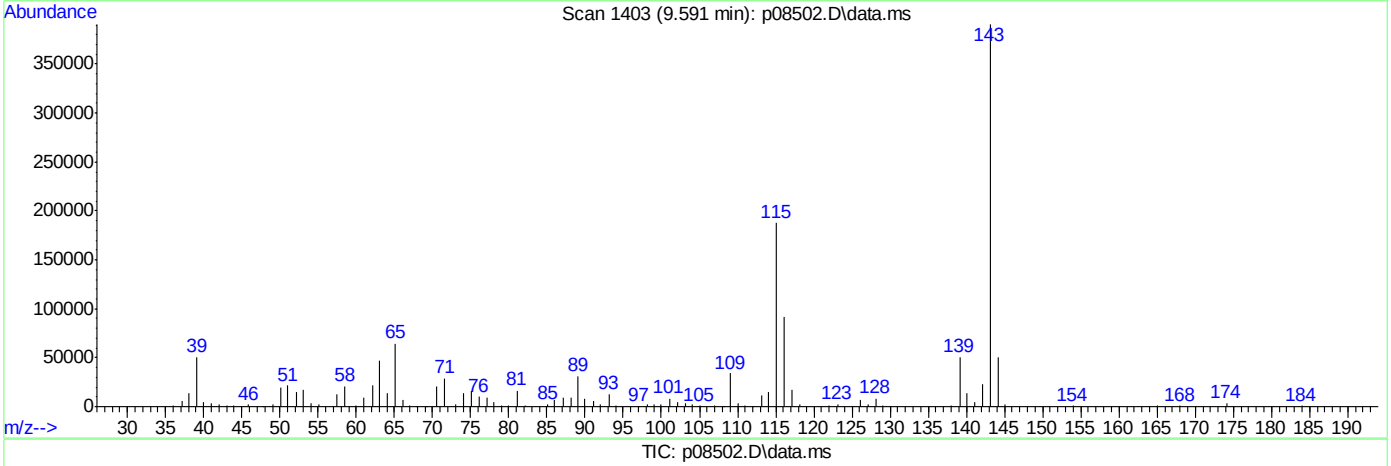
Ion	Exp%	Act%
93.10	100	100
95.10	32.20	33.57
123.10	13.00	13.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08502.D
Acq On : 4 Feb 2010 9:29 am
Operator : garyj
Sample : cc393-50
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 09:54:22 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





TIC: p08502.D\data.ms

(64) 4-Nitrophenol (P)

9.591min (+0.037) 42.35ppm m

response 194723

Ion	Exp%	Act%
109.00	100	100
39.10	122.90	118.52
65.10	167.80	99.50#
139.10	150.80	131.77

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
02/05/10 12:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08523.D
Acq On : 4 Feb 2010 8:25 pm
Operator : garyj
Sample : ecc393-51
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 05 09:14:12 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.173	152	698245	40.00	ppm	0.02
25) Naphthalene-d8	6.483	136	2672850	40.00	ppm	0.02
46) Acenaphthene-d10	9.104	164	1783001	40.00	ppm	0.03
70) Phenanthrene-d10	11.982	188	2885715	40.00	ppm	0.04
85) Chrysene-d12	17.566	240	1216553	40.00	ppm	0.04
94) Perylene-d12	20.427	264	482186m	40.00	ppm	0.04
System Monitoring Compounds						
10) 2-Fluorophenol	4.141	112	4535379	175.99	ppm	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 175.99%#			
12) Phenol-d5	4.927	99	5654274	187.82	ppm	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 187.82%#			
26) Nitrobenzene-d5	5.724	82	2899614	86.37	ppm	0.02
Spiked Amount 50.000	Range 29 - 115		Recovery = 172.74%#			
50) 2-Fluorobiphenyl	7.976	172	5740368	90.65	ppm	0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 181.30%#			
75) 2,4,6-Tribromophenol	10.618	330	787793	105.24	ppm	0.02
Spiked Amount 100.000	Range 32 - 128		Recovery = 105.24%			
88) Terphenyl-d14	15.378	244	4479720	142.60	ppm	0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 285.20%#			
Target Compounds						Qvalue
2) bis(Chloromethyl)ether	2.622	79	656958m	23.64	ppm	
3) 1,4-Dioxane	2.558	88	463174	42.18	ppm	94
4) N-nitrosodimethylamine	2.900	42	696902	49.36	ppm	99
5) Pyridine	2.884	79	1132465	38.99	ppm	99
6) 2-Picoline	3.595	93	1361755	40.15	ppm	99
7) N-Nitrosodiethylamine	4.301	102	665589	43.45	ppm	99
8) Benzaldehyde	4.799	106	514815	61.92	ppm	97
9) Aniline	4.900	93	1410410	39.29	ppm	93
11) bis(2-Chloroethyl)ether	4.943	93	1706202m	55.68	ppm	
13) Phenol	4.938	94	1677817	49.41	ppm	92
14) 2-Chlorophenol	5.029	128	1264532	47.57	ppm	95
15) 1,3-Dichlorobenzene	5.125	146	1505065	46.23	ppm	99
16) 1,4-Dichlorobenzene	5.189	146	1517621	49.86	ppm	99
17) 1,2-Dichlorobenzene	5.328	146	1367433	48.04	ppm	98
18) Benzyl alcohol	5.334	108	801311	43.99	ppm	91
19) bis(2-chloroisopropyl)...	5.419	45	2547360	44.99	ppm	98
20) 2-Methylphenol	5.494	108	1201114m	42.63	ppm	
21) Acetophenone	5.569	105	1439849	40.02	ppm #	80
22) Hexachloroethane	5.644	117	486457	40.31	ppm	97
23) N-Nitroso-di-n-propyla...	5.590	70	844991	42.41	ppm #	74
24) 3&4-Methylphenol	5.628	108	1105632	43.93	ppm #	1
27) Nitrobenzene	5.740	77	1542158	48.37	ppm	97
28) Isophorone	5.986	82	2875099	43.78	ppm	98
29) 2-Nitrophenol	6.050	139	274766	18.12	ppm	92
30) 2,4-Dimethylphenol	6.130	107	1387309	47.74	ppm	93
31) bis(2-Chloroethoxy)met...	6.195	93	1593462	43.98	ppm	99
33) 2,4-Dichlorophenol	6.366	162	1027596	45.19	ppm	99

Quantitation Report (QT Reviewed)

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Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 05 09:14:12 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 1,2,4-Trichlorobenzene	6.414	180	1256554	48.95	ppm		99
35) Naphthalene	6.510	128	3534934	47.11	ppm		99
36) 4-Chloroaniline	6.580	127	1451842	46.99	ppm		92
37) 2,6-Dichlorophenol	6.601	162	865643	41.67	ppm		92
38) Hexachloropropene	6.607	213	270849	21.93	ppm		97
39) Hexachlorobutadiene	6.655	225	750974	47.55	ppm		99
40) Caprolactam	7.088	113	462174	43.49	ppm		96
41) N-Nitrosodi-n-butylamine	6.997	84	982598	41.15	ppm		98
42) 4-Chloro-3-methylphenol	7.286	107	1121235	47.20	ppm		100
43) 2-Methylnaphthalene	7.420	142	2436112	47.79	ppm		98
44) 1-Methylnaphthalene	7.564	142	2496768	50.09	ppm		99
45) 1,2,4,5-Tetrachloroben...	7.676	216	1264574	53.99	ppm		100
47) Hexachlorocyclopentadiene	7.649	237	24638	9.66	ppm	#	27
48) 2,4,6-Trichlorophenol	7.896	196	677731	38.82	ppm		99
49) 2,4,5-Trichlorophenol	8.019	196	619665	39.17	ppm		99
51) 1,1'-Biphenyl	8.147	154	3045060	47.23	ppm		98
52) 2-Chloronaphthalene	8.179	162	2812786	42.80	ppm		93
53) 2-Nitroaniline	8.361	65	1012144	51.30	ppm		95
54) Acenaphthylene	8.858	152	4154750	49.20	ppm		99
55) Dimethylphthalate	8.666	163	3205349	45.20	ppm		100
56) m-Dinitrobenzene	8.746	168	354694	33.26	ppm		95
57) 2,6-Dinitrotoluene	8.778	165	651226	41.11	ppm		92
58) Acenaphthene	9.174	153	2557214	47.00	ppm		99
59) 3-Nitroaniline	9.088	138	772274	51.82	ppm		98
61) Dibenzofuran	9.484	168	3542967	51.17	ppm		99
62) Pentachlorobenzene	9.431	250	1133414	50.06	ppm		99
63) 2,4-Dinitrotoluene	9.522	165	737693	38.20	ppm		85
65) 2,3,4,6-Tetrachlorophenol	9.687	232	201643	19.18	ppm		99
66) Fluorene	10.126	166	2664461	48.63	ppm		98
67) 4-Chlorophenyl-phenyle...	10.137	204	1353961	48.96	ppm		99
68) Diethylphthalate	9.971	149	3232819	47.50	ppm		99
69) 4-Nitroaniline	10.265	138	739695	51.70	ppm		95
72) n-Nitrosodiphenylamine	10.388	169	2717762	49.51	ppm		98
73) 1,2-Diphenylhydrazine	10.447	77	3332866	47.14	ppm		97
74) Diphenylamine	10.388	169	2717762	49.51	ppm		98
76) 4-Bromophenyl-phenylether	11.094	248	837926	48.92	ppm		98
77) Hexachlorobenzene	11.238	284	831319	49.04	ppm		99
78) Atrazine	11.511	200	381818	33.60	ppm		99
79) Pentachlorophenol	11.704	266	50848m	12.05	ppm		
80) Phenanthrene	12.035	178	3515677	45.77	ppm		99
81) Anthracene	12.142	178	4012307	48.54	ppm		100
82) Carbazole	12.501	167	3403372	45.64	ppm		100
83) Di-n-butylphthalate	13.298	149	5354199	51.15	ppm		100
84) Fluoranthene	14.512	202	3815268	44.79	ppm		99
86) Benzidine	14.849	184	361577m	33.03	ppm		
87) Pyrene	14.977	202	3823583	74.54	ppm		99
89) Butylbenzylphthalate	16.448	149	1813865	72.41	ppm		99
90) 3,3'-Dichlorobenzidine	17.518	252	376944	37.87	ppm		100
91) Benzo[a]anthracene	17.544	228	1794463	48.02	ppm		100
92) Chrysene	17.619	228	1651669	46.70	ppm		99

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	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
93)	bis(2-Ethylhexyl)phtha...	17.710	149	2313569	69.51 ppm	98
95)	Di-n-octylphthalate	19.005	149	2616069	85.89 ppm	99
96)	Benzo[b]fluoranthene	19.689	252	660386	36.99 ppm	94
97)	Benzo[k]fluoranthene	19.737	252	872061m	54.93 ppm	
98)	Benzo[a]pyrene	20.315	252	737985m	49.48 ppm	
99)	Indeno[1,2,3-cd]pyrene	22.893	276	594313m	50.10 ppm	
100)	Dibenz[a,h]anthracene	22.925	278	505864m	50.77 ppm	
101)	Benzo[g,h,i]perylene	23.604	276	531385m	55.56 ppm	

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

8.6.27

8

Quantitation Report (QT Reviewed)

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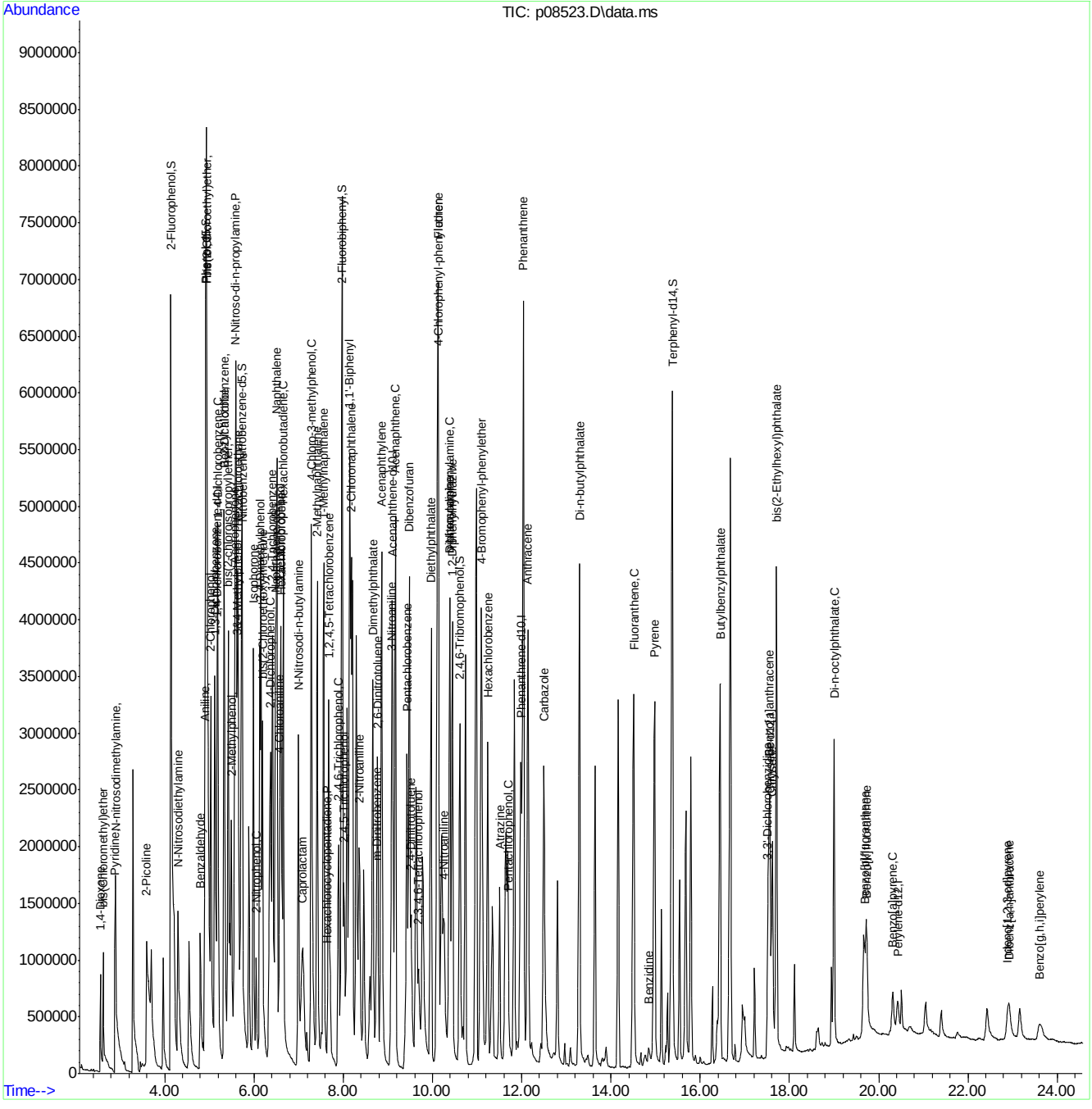

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08523.D
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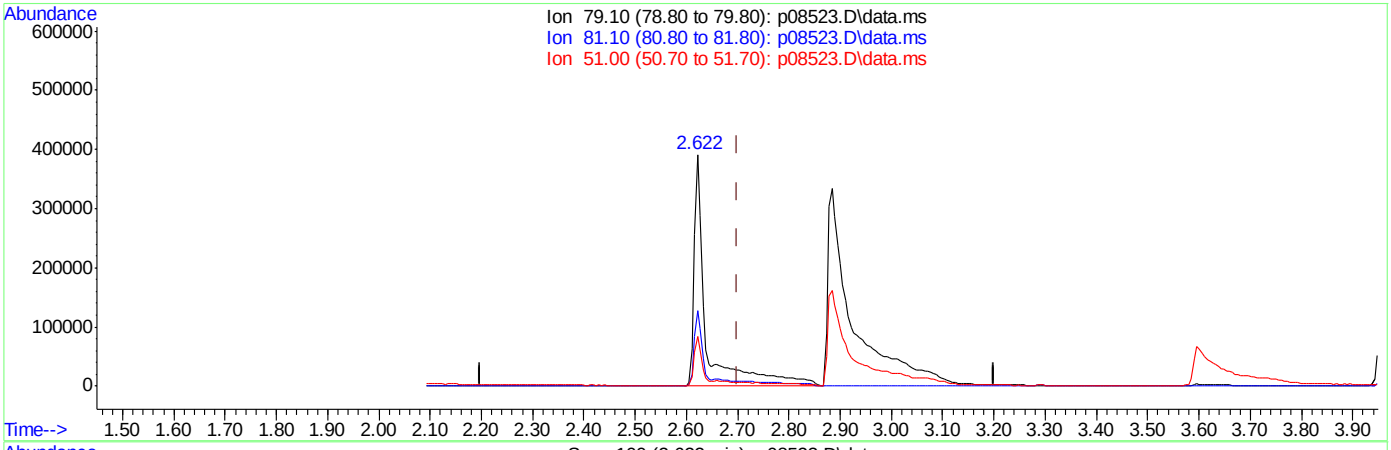

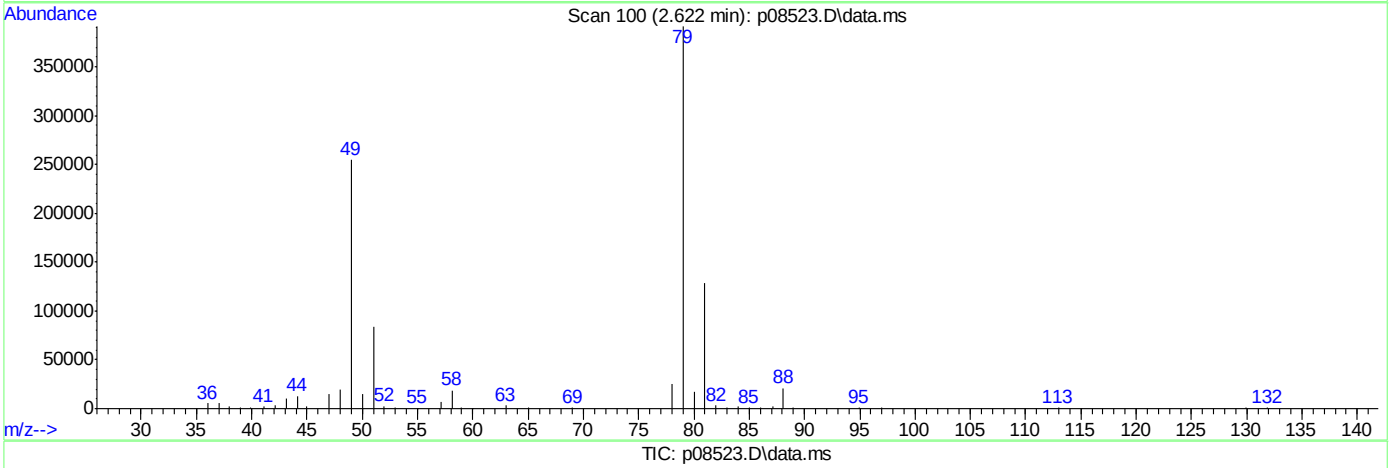

TIC: p08523.D\data.ms

(2) bis(Chloromethyl)ether

2.622min (-0.078) 23.64ppm m

response 656958

Ion	Exp%	Act%
79.10	100	100
81.10	32.60	20.52
51.00	21.10	13.11
0.00	0.00	0.00

Quantitation Report (Qedit)

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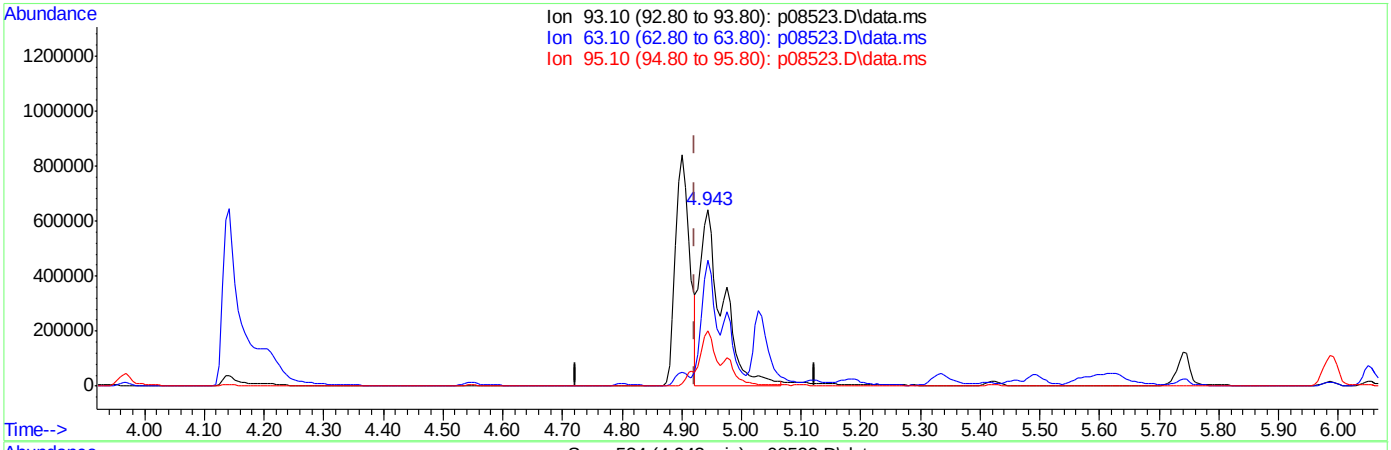

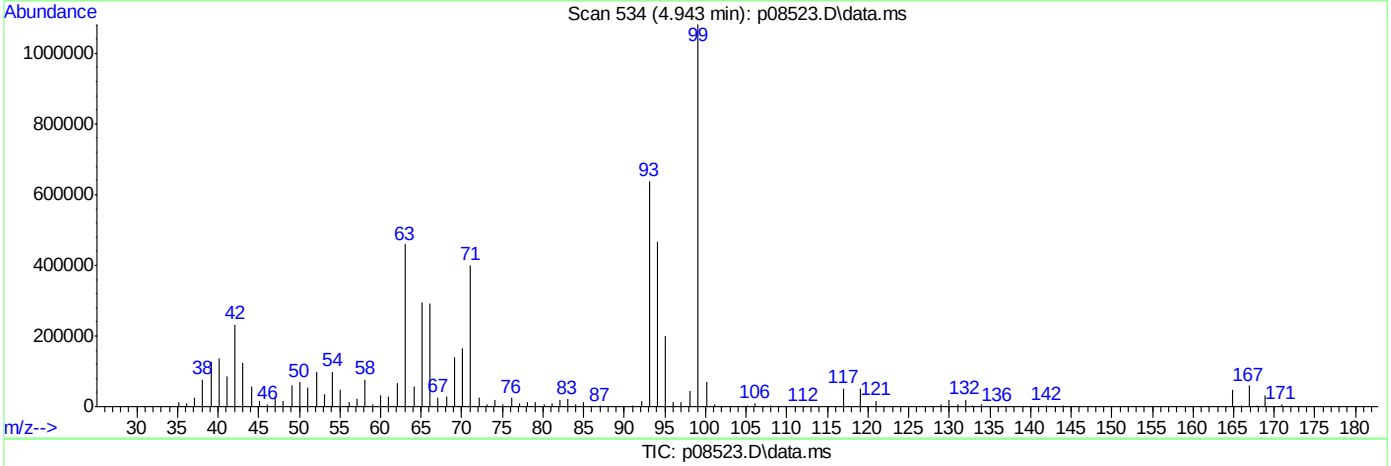

TIC: p08523.D\data.ms

(11) bis(2-Chloroethyl)ether ( )

4.943min (+0.020) 55.68ppm m

response 1706202

Ion	Exp%	Act%
93.10	100	100
63.10	80.40	43.35#
95.10	33.50	23.41
0.00	0.00	0.00

Quantitation Report (Qedit)

```
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Data File : p08523.D
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Sample    : ecc393-51
Misc      : op13254,Ep404,1000,,,1,1,water
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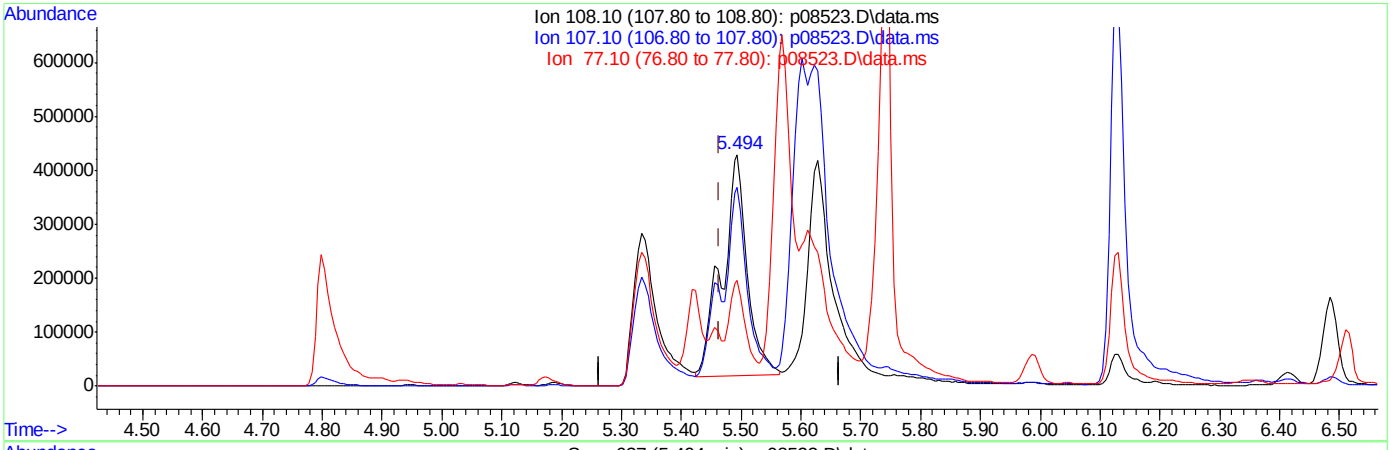

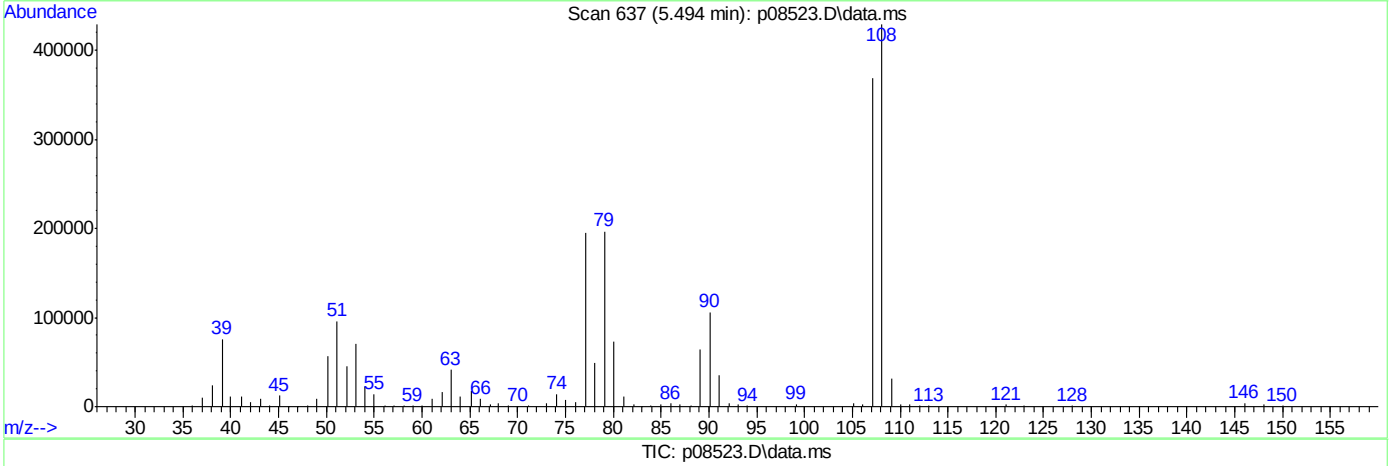

(20) 2-Methylphenol ( )

5.494min (+0.030) 42.63ppm m

response 1201114

Ion	Exp%	Act%
108.10	100	100
107.10	87.60	53.82#
77.10	44.80	21.25
0.00	0.00	0.00

Quantitation Report (Qedit)

```
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Data File : p08523.D
Acq On    :  4 Feb 2010   8:25 pm
Operator  : garyj
Sample    : ecc393-51
Misc      : op13254,Ep404,1000,,,1,1,water
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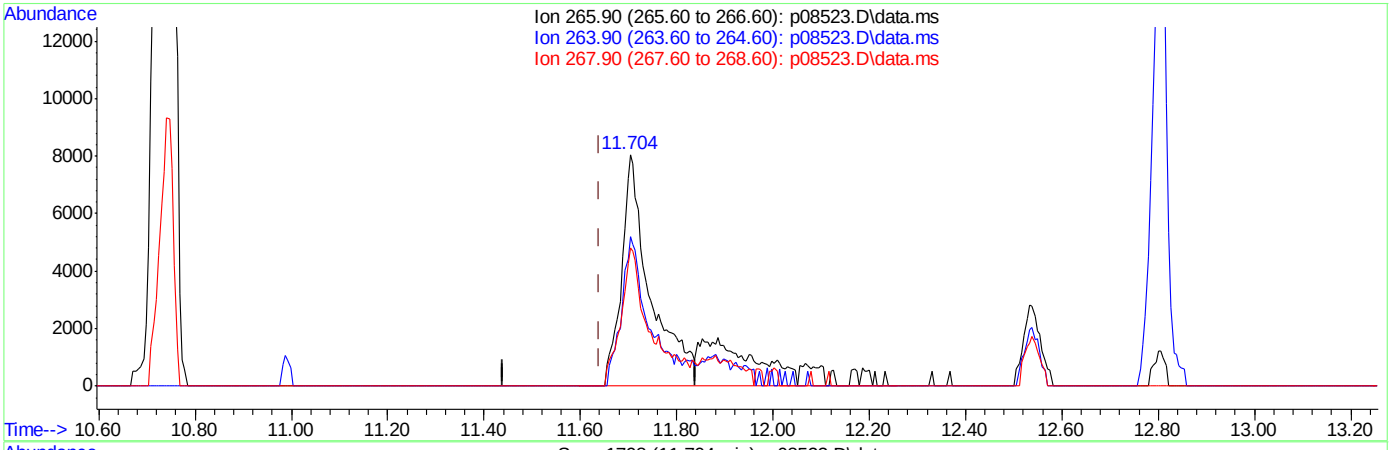

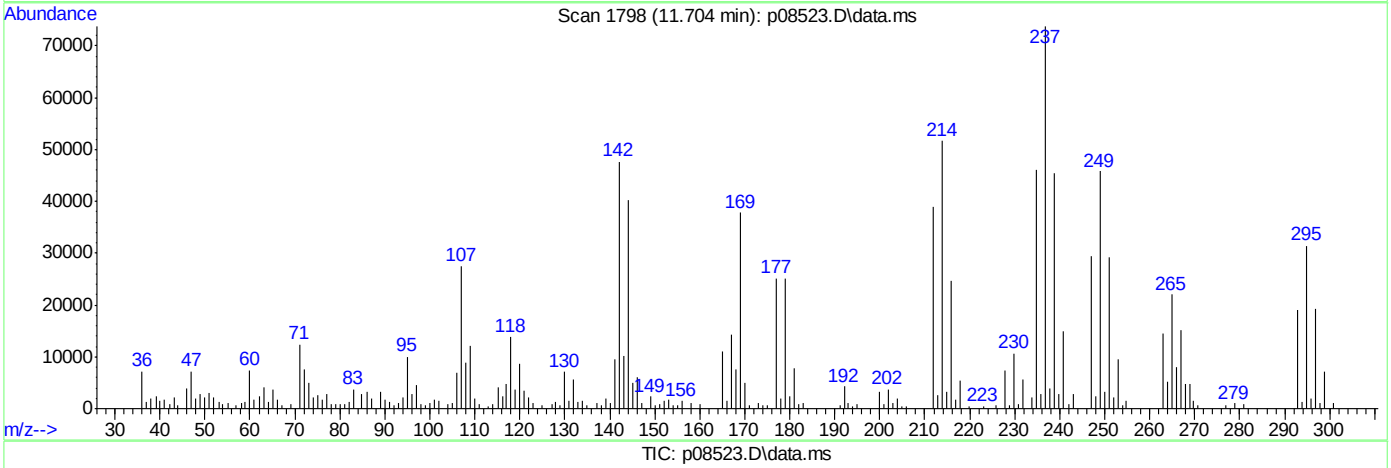

(79) Pentachlorophenol (C)

11.704min (+0.064) 12.05ppm m

response 50848

Ion	Exp%	Act%
265.90	100	100
263.90	63.20	0.00#
267.90	63.60	39.96
0.00	0.00	0.00

Quantitation Report (Qedit)

```
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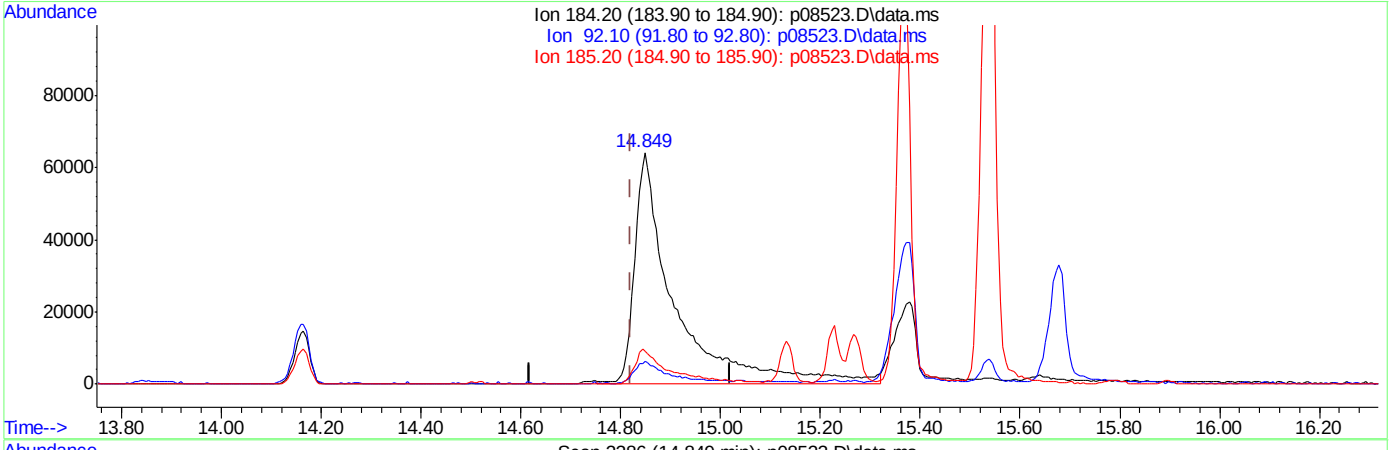

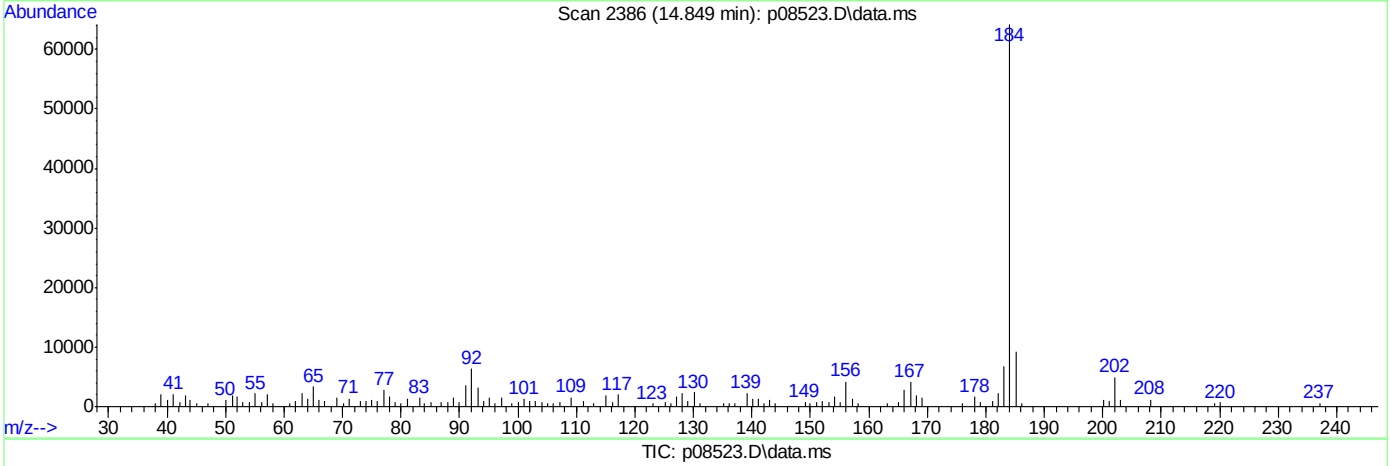

TIC: p08523.D\data.ms

(86) Benzidine

14.849min (+0.029) 33.03ppm m

response 361577

Ion	Exp%	Act%
184.20	100	100
92.10	9.10	8.48
185.20	14.90	12.60
0.00	0.00	0.00

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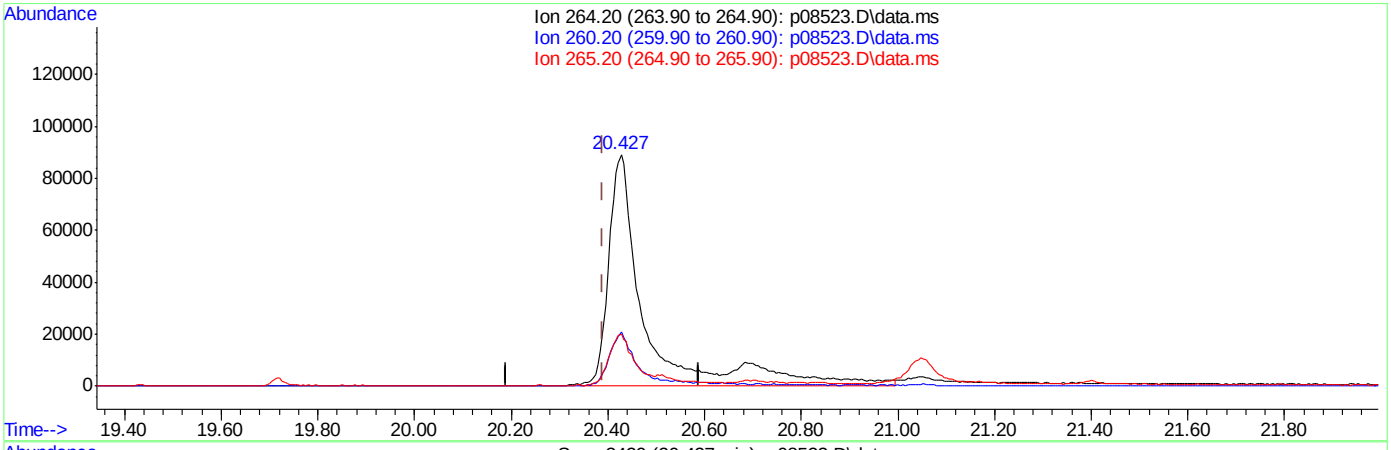

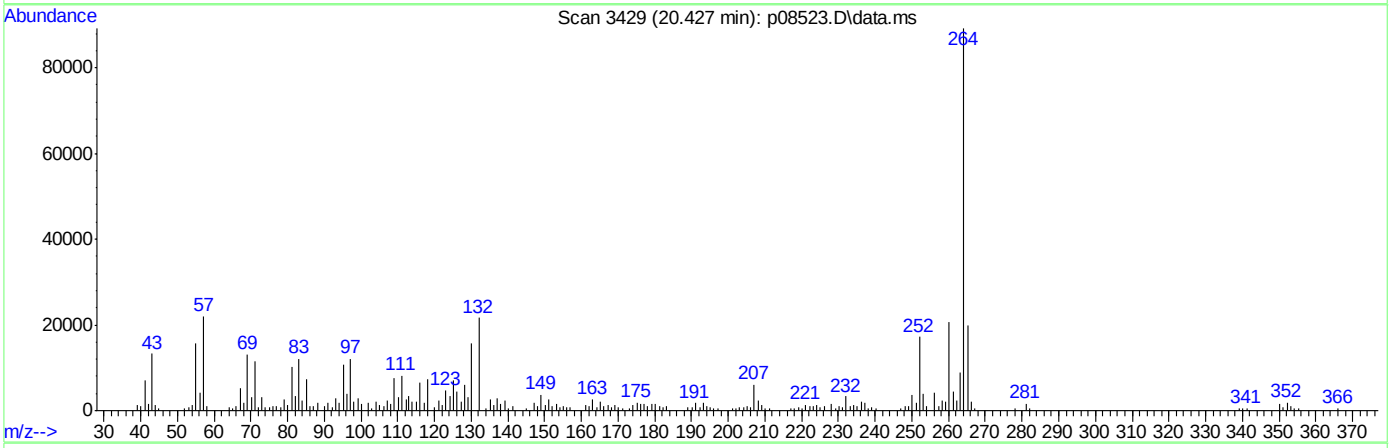

TIC: p08523.D\data.ms

(94) Perylene-d12 (I)

20.427min (+0.037) 40.00ppm m

response 482186

Ion	Exp%	Act%
264.20	100	100
260.20	22.50	17.42
265.20	21.90	15.25
0.00	0.00	0.00

Quantitation Report (Qedit)

```
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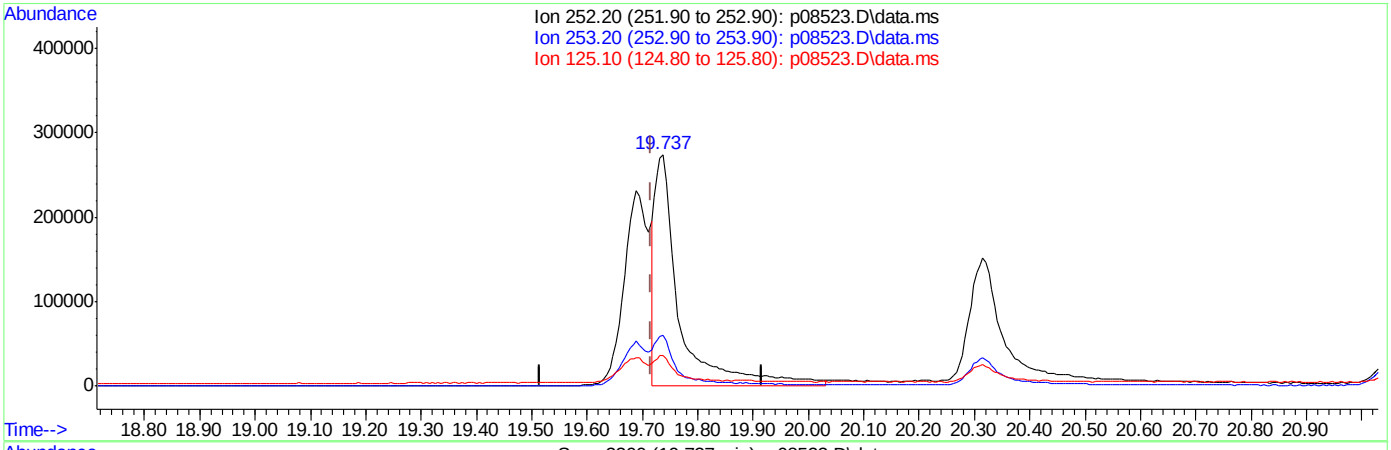

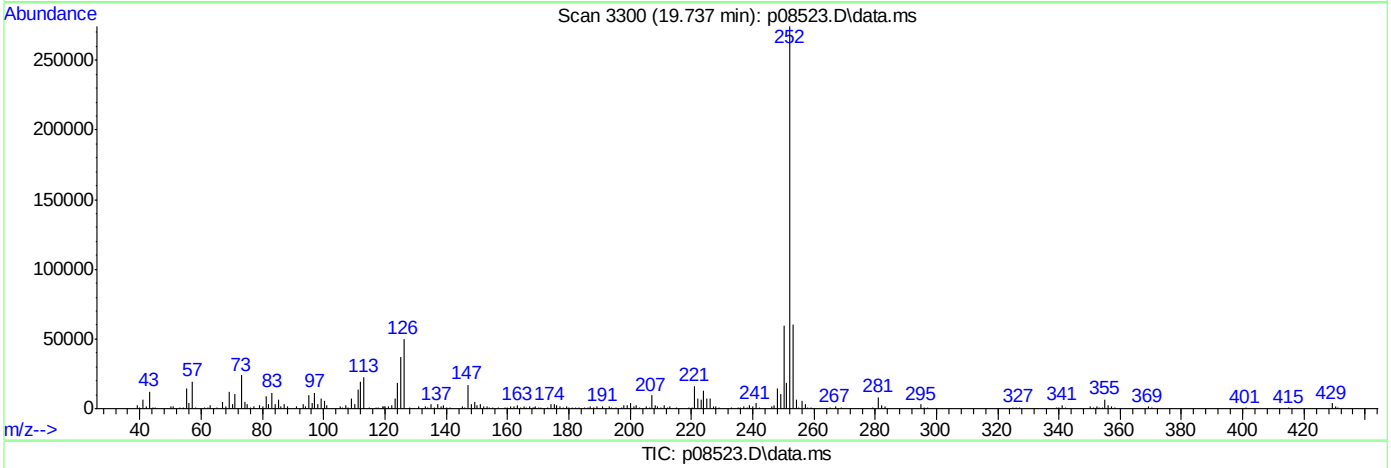

TIC: p08523.D\data.ms

(97) Benzo[k]fluoranthene

19.737min (+0.021) 54.93ppm m

response 872061

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	18.18
125.10	10.30	9.52
0.00	0.00	0.00

8.6.27.7

8

Quantitation Report (Qedit)

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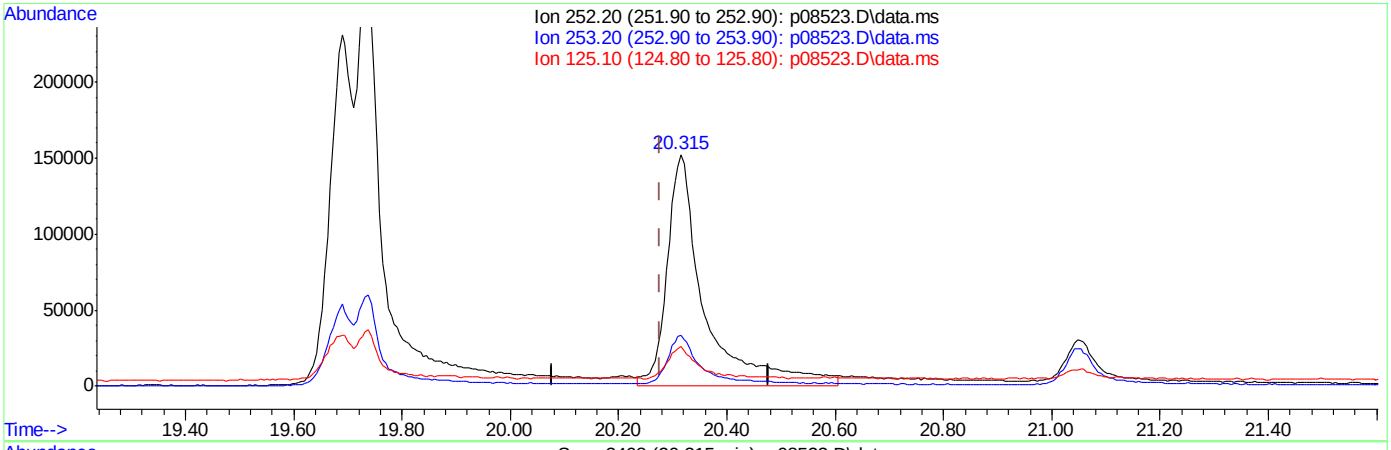
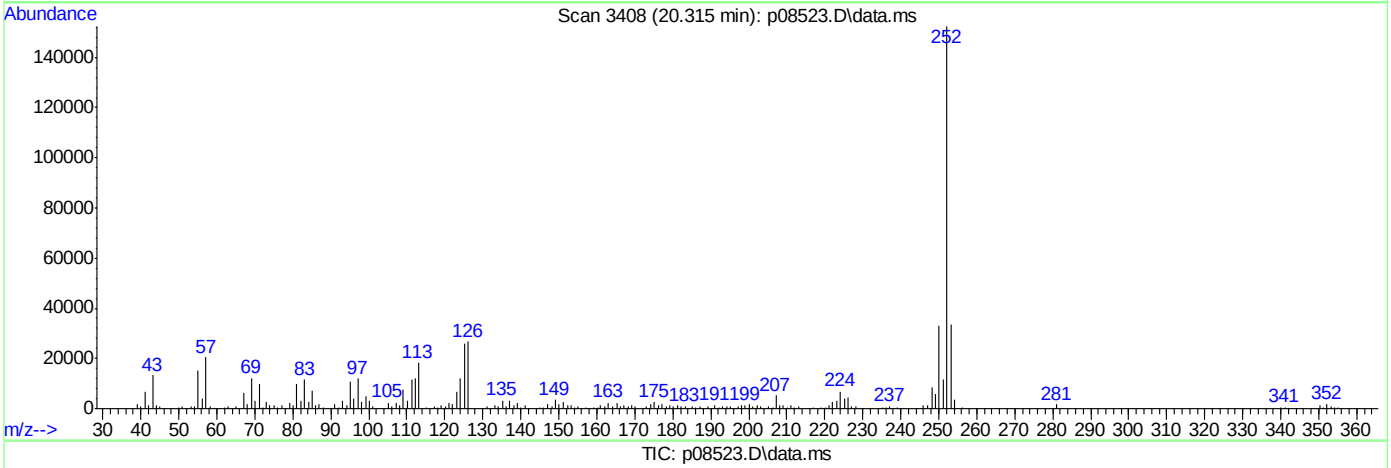
Response via : Initial Calibration





TIC: p08523.D\data.ms

(98) Benzo[a]pyrene (C)

20.315min (+0.037) 49.48ppm m

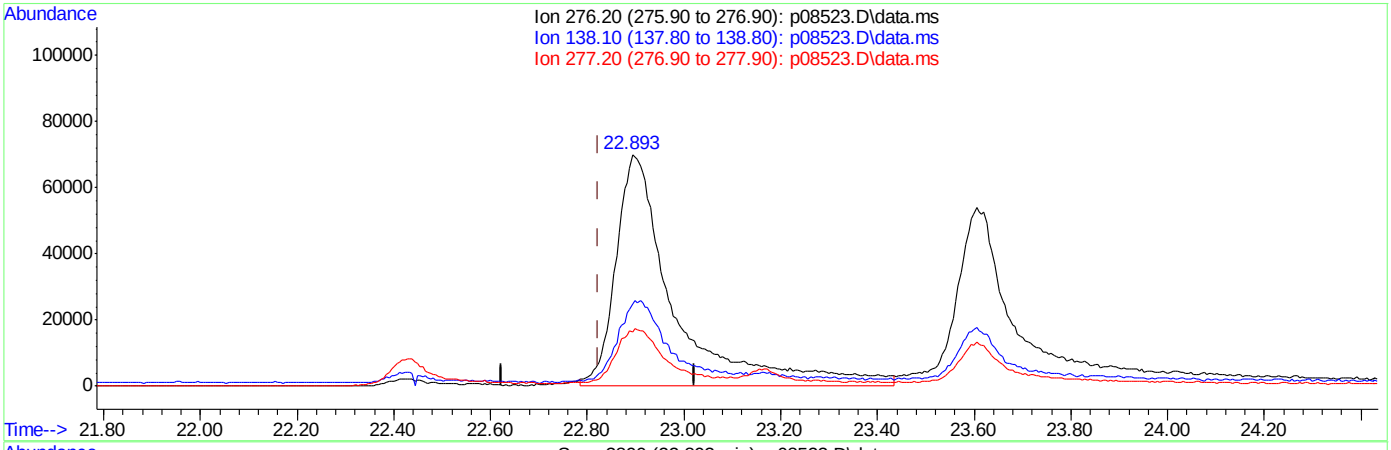
response 737985

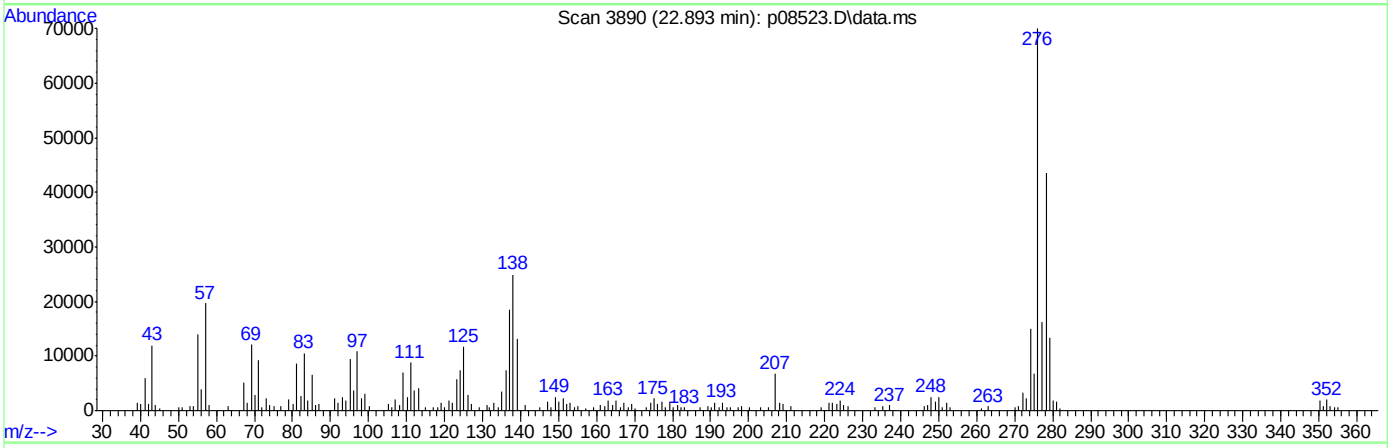
Ion	Exp%	Act%
252.20	100	100
253.20	21.90	17.11
125.10	11.60	10.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08523.D
Acq On : 4 Feb 2010 8:25 pm
Operator : garyj
Sample : ecc393-51
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 05 09:14:12 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(99) Indeno[1,2,3-cd]pyrene

22.893min (+0.069) 50.10ppm m

response 594313

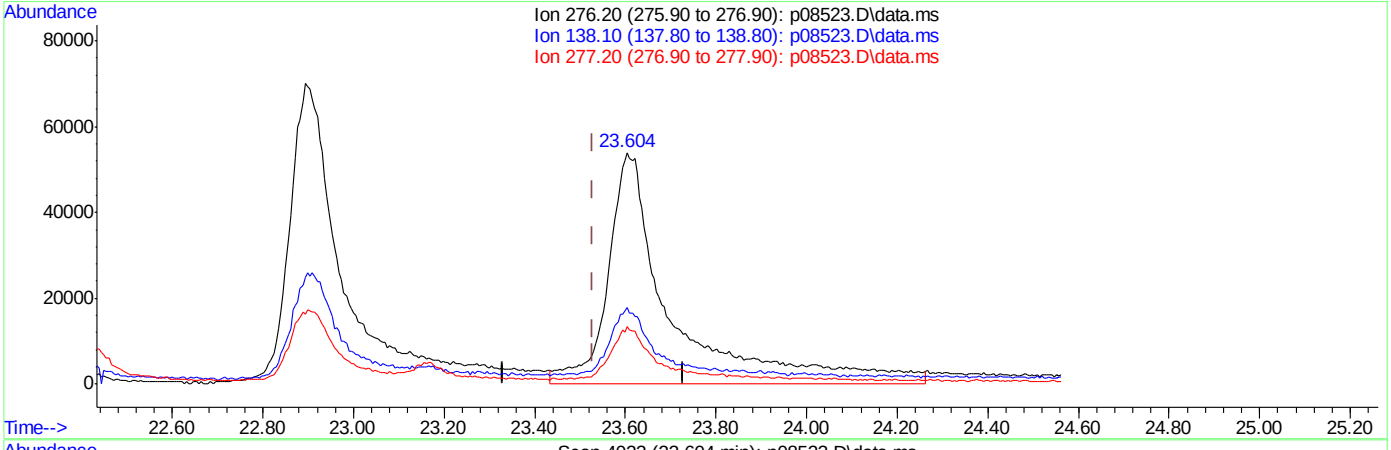
Ion	Exp%	Act%
276.20	100	100
138.10	28.30	27.78
277.20	24.40	18.84
0.00	0.00	0.00

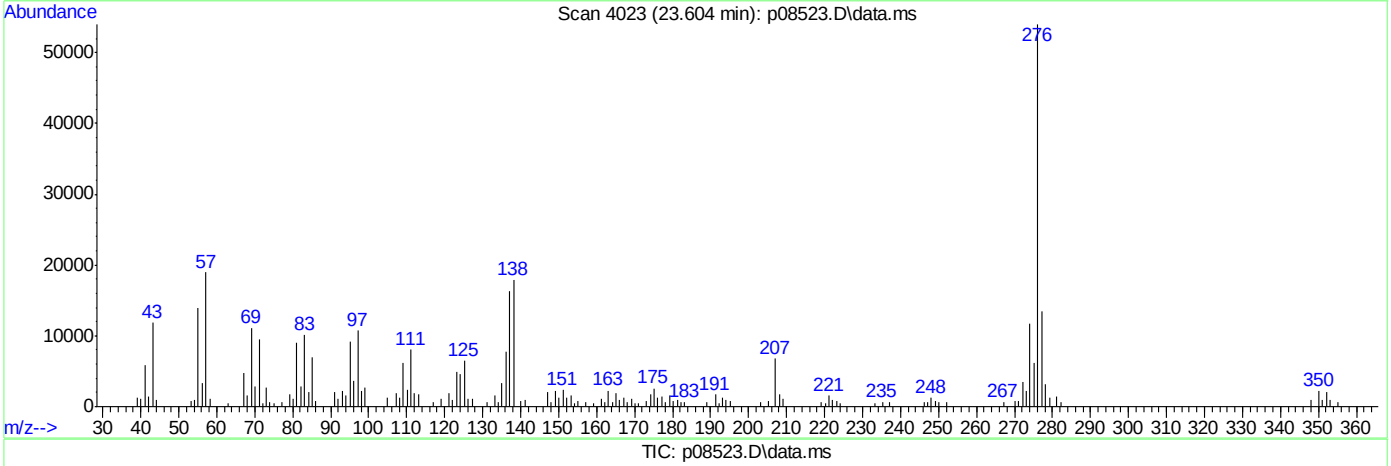
ACCUTEST Laboratories

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08523.D
Acq On : 4 Feb 2010 8:25 pm
Operator : garyj
Sample : ecc393-51
Misc : op13254,Ep404,1000,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 05 09:14:12 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration





(101) Benzo[g,h,i]perylene

23.604min (+0.075) 55.56ppm m

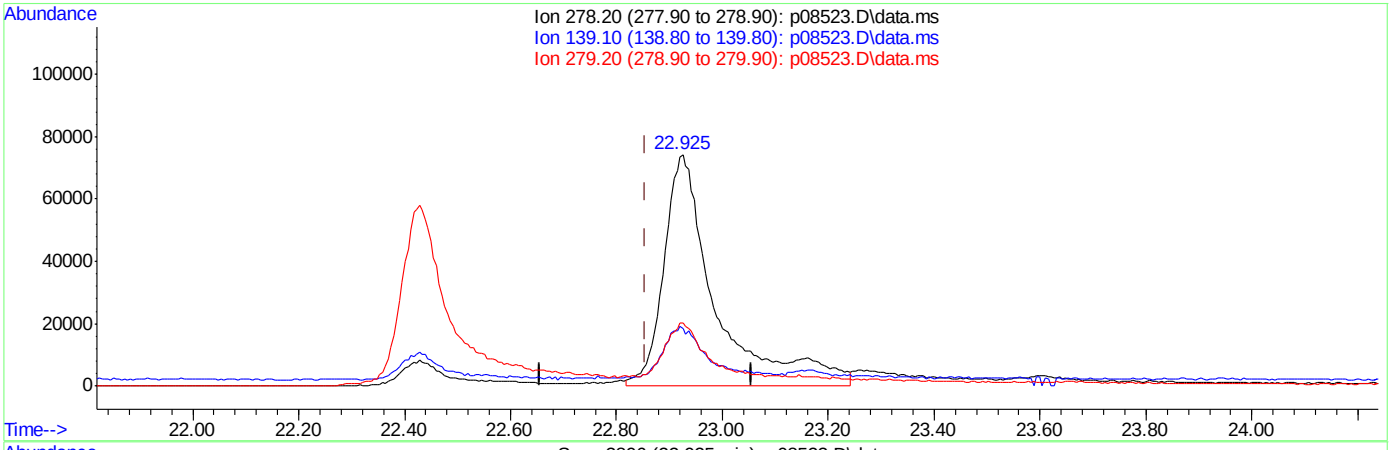
response 531385

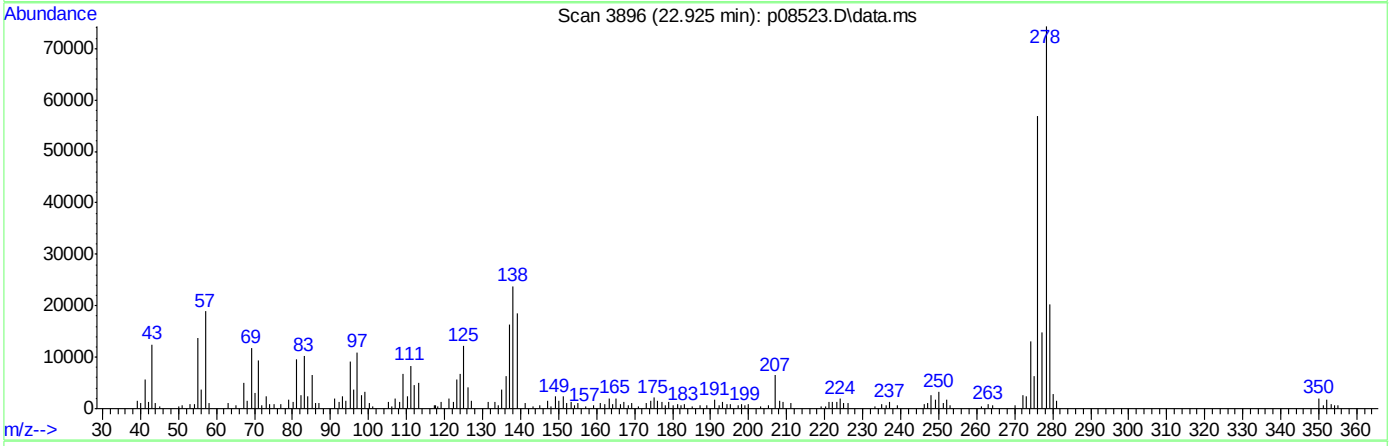
Ion	Exp%	Act%
276.20	100	100
138.10	26.40	17.88
277.20	24.00	14.19
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ep404\
Data File : p08523.D
Acq On    :  4 Feb 2010   8:25 pm
Operator  : garyj
Sample    : ecc393-51
Misc      : op13254,Ep404,1000,,,1,1,water
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Feb 05 09:14:12 2010
Quant Method : C:\msdchem\1\METHODS\ep393.m
Quant Title  : SW846 8270C Appendix 9
QLast Update : Wed Feb 03 12:22:50 2010
Response via : Initial Calibration
```





(100) Dibenz[a,h]anthracene

22.925min (+0.069) 50.77ppm m

response 505864

Ion	Exp%	Act%
278.20	100	100
139.10	19.10	17.26
279.20	24.00	16.36
0.00	0.00	0.00

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1975

Date: 02/03/2010

Analyst Signature: Sheila Cheng

Columns: RXI 5sil

SW-846/EPA Method 8270 SIMPAH

Initial Cal. Method H20310SP.m

Calibration Date: 02/03/2010

Injection Volume: 1 ul

Solvent ID #: OP100118A2n

Solvent: DCM

Standard Data

Ref #	Description
1	MS864
2	MS858-5A
3	-4A
4	-6A
5	-7A
6	-1A
7	-2A

Standard Data

Ref #	Description
8	MS858-5A
9	MS859
10	IS-MS867A

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	H36818	1	dfbPP	dfbPP				✓	11:54 Am	SC
2	19	2	CC1975-2.5	H8SIMSPNW				X		
3	20	3	ICI975-1					✓		
4	21	4	-5					✓		
5	22	5	-10					✓		
6	23	6	-0.1					✓		
7	24	7	-0.2					✓		
8	25	8	ICC1975-2.5					✓		
9	26	9	ICV1975-2.5					✓		
10	27	10	OP13977MB		W	13977	1	✓	SU x10 Share extract with 8270	
	28	11	-BS				1	✓	1/10 dil.	
	29	12	-BSD				1	✓		
	30	13	T46705-1, 10X				10	✓	need for naph	
	31	14	-2, 10X				10	✓	IS3 ↑ need 2-MN.	
	32	15	-3, 10X				10	✓	IS3 OK, DNR	
	33	16	-4				1	✓	OK	
	34	17	-5				1	✓	OK	
	35	18	-1				1	✓	Naph ↑ IS/SU OK	
	36	19	-3				1	✓		
	37	20	T46738-3, 10X				10	✓	IS/SU OK	
	38	21	T46705-2				1	✓	2-meth Naph ↑. IS out due to ME	
	39	22	T46738-3				1	✓	IS OK, SU out, due to ME	
	41	23	-1, (10X1)		S	13985	1	✓	Vf = 10 ml	
	42	24	T46738-2, (10X1)				1	X	outside frame time	
	43	25	T46744-1, (10X10)				10	X		

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP393 / EP394

Date: 1-22-2010 (p 1 of 2)

Analyst Signature: [illegible]

Columns: Rx1-5ms

SW-846/EPA Method 8270C/625 / 8270CMODRO

Initial Cal. Method EP393A9 / EP394MODRO

Calibration Date: 1-22-2010 / 1-20-2010

Injection Volume: 1µL

Solvent ID #: OP091223A6

Solvent: DCM

Standard Data

Ref #	Description
1	MS864
2	MS861-1
3	-7
4	-2
5	-3
6	-4
7	-5

Standard Data

Ref #	Description
8	MS861-6
9	MS862
10	MS938
11	MS817-3
12	MS867-15
	GJ 1/22/2010

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	P08266	1	DFTPP	DFTPP				X	DDT degrad 7, cut column	GJ
1	67	1	DFTPP	DFTPP				✓		
2	68	2	IC393-5	8270P				X	Used DFTPP method by mistake	
~~2~~	69A	2	-5					✓	Stopped run and restarted as P08269A	
~~3~~	70	3	-10					✓		
~~4~~	71	4	-25					✓		
~~5~~	72	5	ICC393-50					✓		
~~6~~	73	6	IC393-75					✓		
~~7~~	74	7	-100					✓		
8	75	8	-125					✓		
9	76	9	ICV393-50					✓		
10	77	1	TPM MARKER ~~DFTPP~~ GJ 1/22/10	8270P DRO				✓	EP394	
1	78	2	DFTPP	DFTPP				✓		
11	79	3	CC390-50	8270P DRO		GJ 1/22/2010		✓	MODRO	
5	80	4	CC393-50	8270P				✓	8270C PAH OK	
12	81	5	OP13895-MB	8270P DRO	W	13895	1	✓		
	82	6	-BS1				1	✓		
	83	7	OT46041-17				1	✓		
	84	8	-19				1	✓		
✓	85	9	-13				1	✓		

GJ 1/22/2010

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

8.7.2 8

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP394

Date: 1-22-2010 (p 2 of 2)

Analyst Signature: [illegible]

Standard Data

Ref #	Description
12	MS867-15
	GJ 1-26-2010

Standard Data

Ref #	Description
	GJ 1-26-2010

Columns: See p.74

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
12	P08286	10	T46041-16	8270PDRO	W	13895	1	✓		GJ
	87	11	-18				1	✓		
	88	12	-12				1	✓		
	89	13	-14				1	✓	2Fluorobiphenyl ↓ (NBaS↓ 2FBi↓ 2,4 SIM)	
	90	14	-15				1	✓		
	91	15	-15				10	NU	Not needed	
	92	16	-14					X	2Fbiphenyl ↓ Recent	
	93	17	-12					NU	Not needed	
	94	18	-18							
	95	19	-16							
	96	20	-13							

GJ 1-26-2009

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP402 / EP403

Date: 2-3-2010 (p 1 of 2)

Analyst Signature: [signature]

Columns: RTX-5 sil
SW-846/EPA Method 8270C / 625
Initial Cal. Method EP393 / EP402 benz resc
Calibration Date: 1-22-2010 / 2-3-2010
Injection Volume: µL

Solvent ID #: OP100118A22
Solvent: MeCl

Standard Data

Ref #	Description
1	MS864
2	MS861-3B
3	MS833-5B
4	-6A
5	-2A
6	MS832-4
7	-1

Standard Data

Ref #	Description
8	MS832-2
9	-3
10	-5
11	-6
12	MS868-
13	MS867-15

AJ 2/3/2010

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	P08460	1	DFTPP	DFTPP				X	PDT degrad ↑ cut colum	GJ
1	61	1	↓	↓				X	↓ ↓	
1	62	1	↓	↓				X	Poor response. Reset ferrule	
1	63	1	DFTPP	DFTPP				✓	EP402	
2	64	2	CC393-50	8270P				X	Benzenethiol + Rescorcinol	
3	65	3	ICC402-50	8270P (Benz + Resc)				X	(IS high. Remade	
4	66	4	IC402-75					X	(Standards and restarted)	
5	67	5	↓ -5					X	(ICAL)	
6	68	6	ICC402-50					✓	Benzenethiol + Rescorcinol	
7	69	7	IC402-5					✓	↓	
8	70	8	-25					X	Improper prep. Remade @ as pos 10	
9	71	9	-40					✓	Benzenethiol + Rescorcinol	
8	72	10	-25					✓	↓	
10	73	11	-75					✓		
11	74	12	↓ -100					✓		
12	75	13	ICV402-50	↓				✓	↓ ↓	
1	76	1	DFTPP	DFTPP				✓	EP403	
2	77	2	CC393-50	8270P				✓		
6	78	3	CC402-50	8270P (Benz + Resc)		AJ 2/3/10		✓	Benzenethiol + Rescorcinol	
13	79	4	OP13976-MB	↓	W	13976	1	✓	↓	

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP403

Date: 2-3-2010 (p 2 of 2)

Analyst Signature: Gary Jedlicka

Standard Data

Ref #	Description
13	MS867
14	MS861-3
	GJ 2/3/2010

Standard Data

Ref #	Description
	GJ 2/3/2010

Columns: See p 86

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
13	P08480	5	OP13976-BS	8270P	W	13976	1	✓		GJ
	81	6	-BSD				1	✓		
	82	7	OP13984-MB		S	13984	1	✓		
	83	8	-BS				1	✓		
	84	9	13976 GJ 2/3/10 OP13976-MB	8270P (Benz Cl Resc	W	13976	1	✓	Benzenethiol & Resorcinol (Not Wanted)	
	85	10	-BS				1	✓		
	86	11	-BSD				1	✓		
	87	12	T46705-1				1	✓		
	88	13	-4				1	✓		
	89	14	-5				1	✓		
	90	15	-2				1	✓	3,4 Methyl phenol ↑	
	91	16	-3				1	✓		
	92	17	-5				10	X	Not needed	
	93	18	-2				10	✓	3,4 Methyphenol OK	
	94	19	-3				10	X	Not needed	
	95	20	T46705-7	8270P	S	13984	40	✓	fv=20mL Very bad matrix !! ISOK	RRM
	96	21	-7 GJ 2/3/10					✓	ISOK	
	97	22	-6					✓	Phenanthrene, Fluoranthene, pyrene ↑	
	98	23	OP13984-MS					✓	156 ↓	
	99	24	-MSD					✓		
14	P08500	25	ECC393-50		—	—	—	✓		

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP402 / EP403

Date: 2-3-2010 (p 1 of 2)

Analyst Signature: [signature]

Columns: RTX-5 sil
SW-846/EPA Method 8270C / 625
Initial Cal. Method EP393 / EP402 benz resc
Calibration Date: 1-22-2010 / 2-3-2010
Injection Volume: µL

Solvent ID #: OP100118A22
Solvent: MeCl

Standard Data

Ref #	Description
1	MS864
2	MS861-3B
3	MS833-5B
4	-6A
5	-2A
6	MS832-4
7	-1

Standard Data

Ref #	Description
8	MS832-2
9	-3
10	-5
11	-6
12	MS868-
13	MS867-15

AJ 2/3/2010

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	P08460	1	DFTPP	DFTPP				X	PDT degrad ↑ cut colum	GJ
1	61	1	↓	↓				X	↓ ↓	
1	62	1	↓	↓				X	Poor response. Reset ferrule	
1	63	1	DFTPP	DFTPP				✓	EP402	
2	64	2	CC393-50	8270P				X	Benzenethiol + Rescorcinol	
3	65	3	ICC402-50	8270P (Benz + Resc)				X	(IS high. Remade	
4	66	4	IC402-75					X	(Standards and restarted)	
5	67	5	↓ -5					X	(ICAL)	
6	68	6	ICC402-50					✓	Benzenethiol + Rescorcinol	
7	69	7	IC402-5					✓	↓	
8	70	8	-25					X	Improper prep. Remade @ As pos 10	
9	71	9	-40					✓	Benzenethiol + Rescorcinol	
8	72	10	-25					✓	↓	
10	73	11	-75					✓		
11	74	12	↓ -100					✓		
12	75	13	ICV402-50	↓				✓	↓ ↓	
1	76	1	DFTPP	DFTPP				✓	EP403	
2	77	2	CC393-50	8270P				✓		
6	78	3	CC402-50	8270P (Benz + Resc)		AJ 2/3/10		✓	Benzenethiol + Rescorcinol	
13	79	4	OP13976-MB	↓	W	13976	1	✓	↓	↓

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP403

Date: 2-3-2010 (p 2 of 2)

Analyst Signature: Gary Jedlicka

Standard Data

Ref #	Description
13	MS867
14	MS861-3
	GJ 2/3/2010

Standard Data

Ref #	Description
	GJ 2/3/2010

Columns: See p 86

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
13	P08480	5	OP13976-BS	8270P	W	13976	1	✓		GJ
	81	6	-BSD				1	✓		
	82	7	OP13984-MB		S	13984	1	✓		
	83	8	-BS				1	✓		
	84	9	13976 GJ 2/3/10 OP13976-MB	8270P (Benz & Resc)	W	13976	1	✓	Benzenethiol & Resorcinol (Not Western)	
	85	10	-BS				1	✓		
	86	11	-BSD				1	✓		
	87	12	T46705-1				1	✓		
	88	13	-4				1	✓		
	89	14	-5				1	✓		
	90	15	-2				1	✓	3,4 Methyl phenol ↑	
	91	16	-3				1	✓		
	92	17	-5				10	X	Not needed	
	93	18	-2				10	✓	3,4 Methyphenol OK	
	94	19	-3				10	X	Not needed	
	95	20	T46705-7	8270P	S	13984	40	✓	fv=20mL Very bad matrix !! ISOK	RRM
	96	21	-7 GJ 2/3/10					✓	ISOK	
	97	22	-6					✓	Phenanthrene, Fluoranthene, pyrene ↑	
	98	23	OP13984-MS					✓	ISO ↓	
	99	24	-MSD					✓		
14	P08500	25	ECC393-50		—	—	—	✓		

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EP404

Date: 2-4-2010

Analyst Signature: Gary Fedlich

Standard Data

Ref #	Description
1	MS864
2	MS861-3B
3	MS867
4	MS861-3
	GJ 2/4/10

Standard Data

Ref #	Description
	GJ 2/4/10

Columns: RTX-5 sil

SW-846/EPA Method 8270C/1625

Initial Cal. Method EP353

Calibration Date: 1-22-2010

Injection Volume: 1µL

Solvent ID #: OP100118A22

Solvent: MeCl

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	P08501	1	DFTPP	DFTPP				✓		GJ
2	02	2	CC393-50	8270P		GJ 2/4/10		✓		
3	03	3	OP13984-MB		GJ 2/4/2010 ~~W~~ S	13984	1	✓	System Blank	
	04	4	T46715-2		W	13976	1	✓		
	05	5	T46589-6		S	13984	20	X	IS OK, Surr OK (Not needed)	
	06	6	-1				20	'	IS OK, 2FPhen↓,	
	07	7	-3				20	'	IS OK, ALL SUR↓	
	08	8	-4				20	✓	IS OK, 2FPhen↓, 246TBP↓	
	09	9	-6				1	✓	IS OK	
	10	10	-1				1	'	IS5,6↓, 2FPhen↓	
	11	11	-3				1	'	All Surr except Terp d14↓ IS5,6↓	
	12	12	-4				1	X	IS5,6↓, 2FPhen↓, 2FB↓ IS wrong IT reprep	
	13	13	-4				1	✓	IS 5,6↓ Surr OK	
	14	14	-5				20	✓	fv=10mL IS6↓	
	15	15	T46589-2				20	✓	↓ IS6↓	
	16	16	T46705-6				4	✓	fv=20mL IS5,6↓	
	17	17	OP13984-MS				4	✓	IS4,5,6↓	
	18	18	↓ -MSD				4	✓	IS4,5,6↓	
	19	19	T46705-7				4	✓	IS5,6↓	
	20	20	T46589-5				1	✓	fv=10mL IS5,6↓	
	21	21	-2				1	✓	↓ IS5,6↓	
	22	22	Wash					✓		
4	23	23	ECC393-50					✓		
4	24	24								

MTX = Matrix Designate W for water, S for soil, O for oil.

GJ 2/5/2010

Form: MS014

BNA LIQUID SAMPLE PREP REPORT

Date: 2/2/2010 Method: EPA 3510C Batch# OP13976 (8270) / OP13977 (SIM)

Analyst: MA

AB8270SL

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	<2>12	1.0ml		1.0	
BS						0.5ml		8270
BSD								
BS						0.5ml		Benzenethiol + Resorcinol
BSD								
T46705-1	2	1000	7					
2	1							
3	2							
4	1							
5	1							
T46715-1	1							
2	2							
3	2							
4	1							
T46738-3	2							
MS								
MSD								

Surrogate ID: E2295 Conc: 100/50ppm Exp. Date: 7/12/2010 Bath Temp #1.: 42°C

Spike ID: MS432 Conc: 100ppm Exp. Date: 4/8/2010 Bath Temp.#2: N/A

MS091201A1 100ug/ml 7/31/2010

Bath Temp.#3: N/A

Methylene Chloride ID #: OP100118A56 Dried Sodium Sulfate ID#: 23-OP-32-01

1:1 Sulfuric Acid ID # 23-OP-32-2 10 N Sodium Hydroxide # OP091019A1

Comments:

Relinquished By: Margaret Austin Date: 2/2/2010

Accepted By: Gary Pedlow Date: 2/3/2010

P.3

Form: OP006, Rev. 02 8/6/09, QAO

BNA LIQUID SAMPLE PREP REPORT

Date: 2/2/2010 Method: EPA 3510C Batch# OP13976 (8270) / OP13977 (SIM)

Analyst: MA

AB8270SL

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	<2>12	1.0ml		1.0	
BS						0.5ml		8270
BSD								
BS						0.5ml		Benzenethiol + Resorcinol
BSD								
T46705-1	2	1000	7					
2	1							
3	2							
4	1							
5	1							
T46715-1	1							
2	2							
3	2							
4	1							
T46738-3	2							
MS								
MSD								

Surrogate ID: E2295 Conc: 100/50ppm Exp. Date: 7/12/2010 Bath Temp #1.: 42°C

Spike ID: MS432 Conc: 100ppm Exp. Date: 4/8/2010 Bath Temp.#2: N/A

MS091201A1 100ug/ml 7/31/2010

Bath Temp.#3: N/A

Methylene Chloride ID #: OP100118A56 Dried Sodium Sulfate ID#: 23-OP-32-01

1:1 Sulfuric Acid ID # 23-OP-32-2 10 N Sodium Hydroxide # OP091019A1

Comments:

Relinquished By: Margaret Austin Date: 2/2/2010

Accepted By: Gary Pellerin Date: 2/3/2010

P.3

Form: OP006, Rev. 02 8/6/09, QAO

ACCUTEST

BNA SOLID SAMPLE PREP REPORT

AB32707CL

B82705imPAH

Date: 02/03/2010 Method: 3550B Batch#: OP13984 / OP13985

Analyst: SR

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB		30.06	1.0mL		1.0mL	
BS		30.17		0.5mL		
T46589-1		30.87			1.0mL ~~10mL~~ RT	2/4/10
-2		30.03			10mL ~~1.0mL~~ RT	2/4/10
-3		30.22			1.0mL	
-4		30.71				
-5		30.80			10mL	
-6		30.10			1.0mL	
T46705-6		30.65			20mL	
-7		30.16			20mL	
T46794-1		30.45			10mL	
T46738-1		30.00			10mL	
-2		30.58			10mL	
BSD		30.10		0.5mL	1.0mL	
						SR 02/03/10
MS		30.19			20mL	~~T46589-6~~ T46705-6
MSD		30.51				

Surrogate ID: E2295 Conc: 100/50ppm Exp. Date: 7-12-2010 Bath Temp.: 40°C

Spike ID: MS091201A1 Conc: 100 µg/ml Exp. Date: 7-31-2010 Bath Temp. #2: NA

Methylene Chloride ID #: OP100118A56 Bath Temp. #3: ↓

1:50 Methylene Chloride/Acetone ID #: NA Dried Sodium Sulfate ID#: 23-09-33-3

Comments:

Relinquished By: Date: 02/3/2010

Accepted By: Gary Ledbetter Date: 2/3/2010

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Form: OP005, Rev. 02/04/2009, QAO

8.8.3

8

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T46705
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	GP7902/GN20599	0.010	0.0	mg/l	0.2	0.196	98.0	90-110%

Associated Samples:
Batch GP7902: T46705-1, T46705-2, T46705-3, T46705-4, T46705-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T46705
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP7902/GN20599	T46705-1	mg/l	0.0040 U	0.0	0.0	0-20%
Solids, Percent	GN20530	T46266-1	%	79.8	80.2	0.5	0-5%

Associated Samples:
Batch GN20530: T46705-6, T46705-7
Batch GP7902: T46705-1, T46705-2, T46705-3, T46705-4, T46705-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T46705
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	GP7902/GN20599	T46705-1	mg/l	0.0040 U	0.2	0.18	90.0	90-110%

Associated Samples:
Batch GP7902: T46705-1, T46705-2, T46705-3, T46705-4, T46705-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T46705
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 010410S2CN.TXT Date Analyzed: 02/04/10 Methods: EPA 335.4, SW846 9012 M
Analyst: CV Run ID: GN20599
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:41	GN20599-ICV1	1		
16:42	GN20599-ICB1	1		
16:44	GP7902-B1	1		
16:44	GP7902-MB1	1		
16:46	GP7902-S1	1		
16:47	GP7902-D1	1		
16:49	T46705-1	1		
16:49	T46705-2	1		
16:51	T46705-3	1		
16:52	T46705-4	1		
16:54	T46705-5	1		
16:54	ZZZZZZ	1		
16:56	GN20599-CCV1	1		
16:57	GN20599-CCB1	1		
16:59	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:01	GP7903-B1	1		
17:02	GP7903-MB1	1		
17:04	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:07	ZZZZZZ	1		
17:09	GN20599-CCV2	1		
17:09	GN20599-CCB2	1		
17:11	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:16	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:29	ZZZZZZ	2		
17:31	ZZZZZZ	2		
17:34	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T46705
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 010410S2CN.TXT Date Analyzed: 02/04/10 Methods: EPA 335.4, SW846 9012 M
Analyst: CV Run ID: GN20599
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:36	ZZZZZZ	2		
18:24	GN20599-CCV3	1		
18:24	GN20599-CCB3	1		
18:26	GP7903-S1	100		
18:27	GP7903-D1	100		
18:29	T46522-1	100		(sample used for QC only; not part of login T46705)
18:29	ZZZZZZ	1		
18:31	GN20599-CCV4	1		
18:32	GN20599-CCB4	1		
18:44	ZZZZZZ	100		
19:07	GN20599-CCV5	1		
19:07	GN20599-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T46705
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 010410S2CN.TXT Date Analyzed: 02/04/10 Methods: EPA 335.4, SW846 9012 M
Run ID: GN20599 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN20599-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN20599-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN20599-CCV1	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN20599-CCB1	Cyanide	0.0040 U	0.010	0.0040			
GN20599-CCV2	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN20599-CCB2	Cyanide	0.0040 U	0.010	0.0040			
GN20599-CCV3	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN20599-CCB3	Cyanide	0.0040 U	0.010	0.0040			
GN20599-CCV4	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN20599-CCB4	Cyanide	0.0040 U	0.010	0.0040			
GN20599-CCV5	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN20599-CCB5	Cyanide	0.0040 U	0.010	0.0040			

(!) Outside of QC limits

Percent Solids Raw Data Summary

Job Number: T46705
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: T46705-6 **Analyzed:** 02-FEB-10 by JL **Method:** SM 2540 G
ClientID: TDM-1

Wet Weight (Total)	12.52	g
Tare Weight	1.323	g
Dry Weight (Total)	11.95	g
Solids, Percent	94.9	%

Sample: T46705-7 **Analyzed:** 02-FEB-10 by JL **Method:** SM 2540 G
ClientID: TDM-2

Wet Weight (Total)	9.281	g
Tare Weight	1.305	g
Dry Weight (Total)	9.172	g
Solids, Percent	98.6	%

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	0.0056	0.00		4:36:52 PM
R-4	RBL	0.0000	0.0056	0.00		4:37:17 PM
R-4	RBL	0.0000	0.0051	0.00		4:39:21 PM
R-4	RBL	0.0000	0.0052	0.00		4:39:46 PM
1	ICV	0.1954	0.2254	0.00		4:41:51 PM
2	ICB	-0.0022	0.0005	0.00	LL	4:42:16 PM
3	BSP	0.1956	0.2257	0.00		4:44:21 PM
4	MB	-0.0019	0.0008	0.00	LL	4:44:45 PM
5	T46705-1S1	0.1841	0.2126	0.00		4:46:50 PM
6	T46705-1D1	-0.0014	0.0014	0.00	LL	4:47:15 PM
7	T46705-1	0.0009	0.0040	0.00		4:49:20 PM
8	T46705-2	0.0292	0.0362	0.00		4:49:45 PM
9	T46705-3	0.0074	0.0114	0.00		4:51:50 PM
10	T46705-4	-0.0003	0.0026	0.00	LL	4:52:14 PM
11	T46705-5	-0.0001	0.0029	0.00	LL	4:54:19 PM
12	T46326-1	0.0001	0.0031	0.00		4:54:44 PM
13	CCV	0.2935	0.3371	0.00		4:56:49 PM
14	CCB	-0.0022	0.0005	0.00	LL	4:57:14 PM
15	T46878-1	0.0011	0.0042	0.00		4:59:18 PM
16	T46889-1	-0.0004	0.0025	0.00	LL	4:59:43 PM
17	LCSS	0.2016	0.2325	0.00		5:01:48 PM
18	MBS	0.0060	0.0098	0.00		5:02:13 PM
19	T46522-1S1	2.4080	2.7446	0.00	EPL,><,LH	5:04:18 PM
20	T46522-1D1	3.6816	4.1946	0.00	><,LH,OFL	5:04:42 PM
21	T46522-1	3.6816	4.1946	0.00	><,LH,OFL	5:06:47 PM
22	T46521-1	1.8161	2.0707	0.00	EPL,><,LH	5:07:12 PM
23	CCV1	0.3033	0.3483	0.00		5:09:17 PM
24	CCB1	0.0005	0.0036	0.00		5:09:42 PM
25	MBAm	-0.0045	-0.0021	0.00	INV,><,LL	5:11:47 PM
26	T46522-1Am	-0.0025	0.0001	0.00	LL	5:12:12 PM
27	T46522-1AmD	-0.0016	0.0012	0.00	LL	5:14:17 PM
28	T46521-1Am	-0.0010	0.0019	0.00	LL	5:14:42 PM
29	CCV2	0.2932	0.3368	0.00		5:16:47 PM
30	CCB2	-0.0016	0.0012	0.00	LL	5:17:12 PM
19-[1/2]	T46522-1S1	7.3632	4.1946	0.00	><,LH,OFL	5:29:26 PM
20-[1/2]	T46522-1D1	7.3632	4.1946	0.00	><,LH,OFL	5:31:56 PM

Report Date :02/11/2010 **Run Date :02/04/2010** **Operator : WESTCO** **Plan # :20100204005**

Plan Description : 020410w1cn

2/4/10

10.1.1 10

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
21-[1/2]	**T46522-1**	**7.3632**	**4.1946**	**0.00**	**><,LH,OFL**	**5:34:25 PM**
22-[1/2]	**T46521-1**	**4.4623**	**2.5432**	**0.00**	**EPL,><,LH**	**5:36:55 PM**

Report Date :02/11/2010 **Run Date :02/04/2010** **Operator : WESTCO** **Plan # :20100204005**

Plan Description : 020410w1cn

ACCUTEST

Westco Analyzer Run Log

Date: 2/4/10
Time: 1626
Analyst: CV

Sources	
Primary Standard:	GN090408E
Secondary Standard:	GN091208CD

Reagent	Reagent ID
Lab Phosphate Mod.	2KTC-10-2
Color Reagent 3	2KTC-7-2
Chloramine T	2KTC-62-3

CV

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	2KTC-63-1				
ICB					
BSP				ICS, refer to distillation log	
MB					
T46705-1S1				Lyt, refer to distillation log	
-1D1					
-1					
-2					
-3					
-4					
-5					
T46326-1					
CCV	2KTC-63-2				
CCB					
T46878-1					
T46889-1					
BSS				ICS, refer to distillation log	
MBS					
T46522-1S1				Lyt, refer to distillation log	
-1D1					
-1					
T46521-1					
CCV	2KTC-63-2				
CCB					
MB low					
T46522-1 low					

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Form: GN059 Rev. 0 8/28/08 QAO

10.1.1 10

ACCUTEST

Westco Analyzer Run Log

Date: 2/4/10
Time: 1622
Analyst: CW

Sources	
Primary Standard:	GN090408E
Secondary Standard:	GN091205D

Reagent	Reagent ID
Lod. Phos. Monobasic	24TC-10-2
Color Reagent	24TC-7-2
Chloramines T	2KTC-62-2

CW

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T46522-1fwD					
T46521-1fw					
CCV	2KTC-63-2				
CCB					

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CW 2/4/10

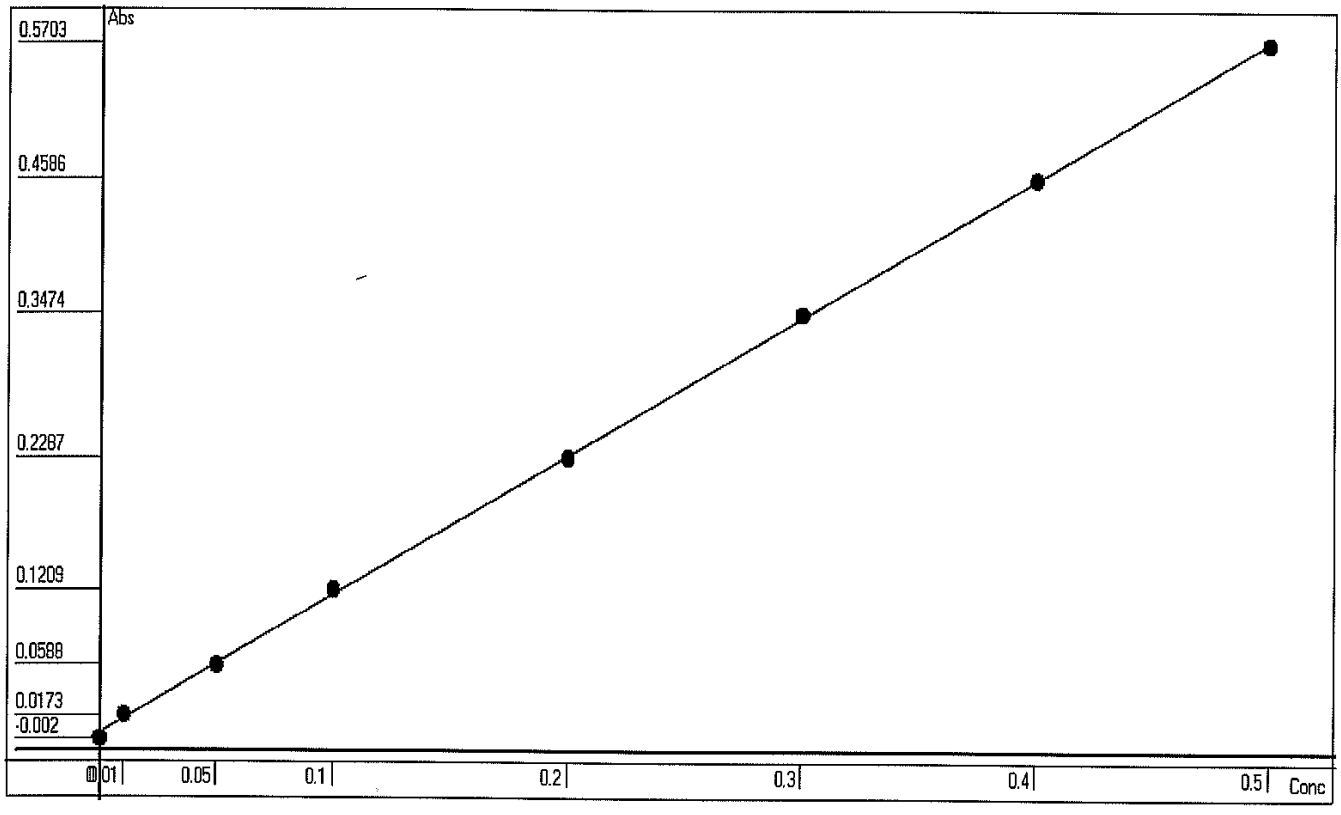
Form: GN059 Rev. 0 8/28/08 QAO

10.1.1 10

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20100204005 Description : [020410w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	-0.0020	0	-0.0044	0
2	0.0173	0.01	0.0126	26
3	0.0588	0.05	0.0490	-2
4	0.1209	0.1	0.1036	4
5	0.2287	0.2	0.1983	-1
6	0.3474	0.3	0.3025	1
7	0.4586	0.4	0.4002	0
8	0.5703	0.5	0.4983	0
				RBL

Conc= +0.8783*Abso -0.0026 R^2=0.9998

Report Date 2/11/2010 Run Date 12/15/2009

10.1.1

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