

LABORATORY REPORT

September 4, 2009

Brian Baker
Environmental Health & Engineering, Incorporated
117 Fourth Avenue
Needham, MA 02494

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 14, 2009. For your reference, these analyses have been assigned our service request number P0902805.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains **511** pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Incorporated CAS Project No: P0902805
Project: Project # 16512 / 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 14, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator.

The upper control criterion was exceeded for Vinyl Acetate in the Continuing Calibration Verification (CCV) analyzed on August 20, 2009. Since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain the analyte in question, the data quality is not affected. No corrective action was required.

The spike recovery of Vinyl Acetate for the Laboratory Control Sample (LCS) analyzed on August 21, 2009 was outside the Laboratory generated control criterion. The recovery error equates to a potential low bias. However, the spike recovery of the analyte in question was within the method criteria; therefore, the data quality is not significantly affected. No corrective action was taken.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Environmental Health & Engineering, Incorporated
Project: Project # 16512 16512

Folder: P0902805

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>P1 (Hg)</u>	<u>P11 (psig)</u>	<u>Pf1 (Hg)</u>	<u>P12 (psig)</u>	<u>Pf2 (Hg)</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
P0902805-001.01	101309	6.0 L-Summa Canister Ambient	-1.0	-0.5	3.6			AC01224	14190		
P0902805-002.01	101310	6.0 L-Summa Canister Ambient	-1.3	-0.6	3.5			AC01230	14190		
P0902805-003.01	101311	6.0 L-Summa Canister Ambient	-1.9	-0.9	3.5			AC00847	14190		
P0902805-004.01	101398	6.0 L-Summa Canister Ambient	-1.1	-0.5	3.5			AC00542	14190		
P0902805-005.01	101399	6.0 L-Summa Canister Ambient	-0.7	-0.3	3.6			AC00801	14190		
P0902805-006.01	101400	6.0 L-Summa Canister Ambient		0.2	3.5			AC01576	14190		
P0902805-007.01	101401	6.0 L-Summa Canister Ambient	-0.5	-0.2	3.5			AC01314	14190		

Miscellaneous Items - received

- AVG00701
- FC00626
- AVG00930
- FC00679
- FC00662
- AVG01070
- FC00242
- AVG01051
- FC00322
- FC00785
- AVG00759
- AVG01019
- AVG00258
- FC00234

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Incorporated

Work order: P0902805

Project: Project # 16512 / 16512

Sample(s) received on: 8/14/2009

Date opened: 8/14/2009

by: ADAVID

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | | Yes | No | N/A |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | Were sample containers properly marked with client sample ID? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 | Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 | Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Trip blank supplied by CAS: _____ | | | |
| 11 | Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 | Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 | Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 | Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0902805-001.01	6.0 L Ambient Can					
P0902805-002.01	6.0 L Ambient Can					
P0902805-003.01	6.0 L Ambient Can					
P0902805-004.01	6.0 L Ambient Can					
P0902805-005.01	6.0 L Ambient Can					
P0902805-006.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

Missing date and time collected on COC. Sample -003 is missing the sample ID tag. _____

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101309
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01224

CAS Project ID: P0902805
CAS Sample ID: P0902805-001

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/20 - 8/21/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.29

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	11	0.65	3.2	0.18	
110-54-3	n-Hexane	20	0.65	5.5	0.18	
67-66-3	Chloroform	2.5	0.13	0.51	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	ND	0.22	
107-06-2	1,2-Dichloroethane	2.6	0.13	0.64	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	7.8	0.13	2.4	0.040	
56-23-5	Carbon Tetrachloride	0.57	0.13	0.091	0.021	
110-82-7	Cyclohexane	5.3	0.65	1.5	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	1.8	0.13	0.27	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	0.65	ND	0.16	
142-82-5	n-Heptane	11	0.65	2.6	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	ND	0.14	
108-10-1	4-Methyl-2-pentanone	3.6	0.65	0.87	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	62	0.65	17	0.17	
591-78-6	2-Hexanone	0.68	0.65	0.17	0.16	
124-48-1	Dibromochloromethane	0.79	0.13	0.093	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	3.4	0.65	0.71	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101309
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P0902805-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01224

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/20 - 8/21/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.0	0.65	0.86	0.14	
127-18-4	Tetrachloroethene	2.3	0.13	0.34	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	17	0.65	4.0	0.15	
179601-23-1	m,p-Xylenes	63	0.65	15	0.15	
75-25-2	Bromoform	ND	0.65	ND	0.062	
100-42-5	Styrene	2.7	0.65	0.63	0.15	
95-47-6	o-Xylene	23	0.65	5.2	0.15	
111-84-2	n-Nonane	3.1	0.65	0.59	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	0.87	0.65	0.18	0.13	
80-56-8	alpha-Pinene	29	0.65	5.3	0.12	
103-65-1	n-Propylbenzene	2.7	0.65	0.56	0.13	
622-96-8	4-Ethyltoluene	5.1	0.65	1.0	0.13	
108-67-8	1,3,5-Trimethylbenzene	4.7	0.65	0.96	0.13	
95-63-6	1,2,4-Trimethylbenzene	16	0.65	3.2	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.16	0.13	0.026	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	25	0.65	4.5	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	ND	0.067	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	ND	0.087	
91-20-3	Naphthalene	1.2	0.65	0.24	0.12	
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

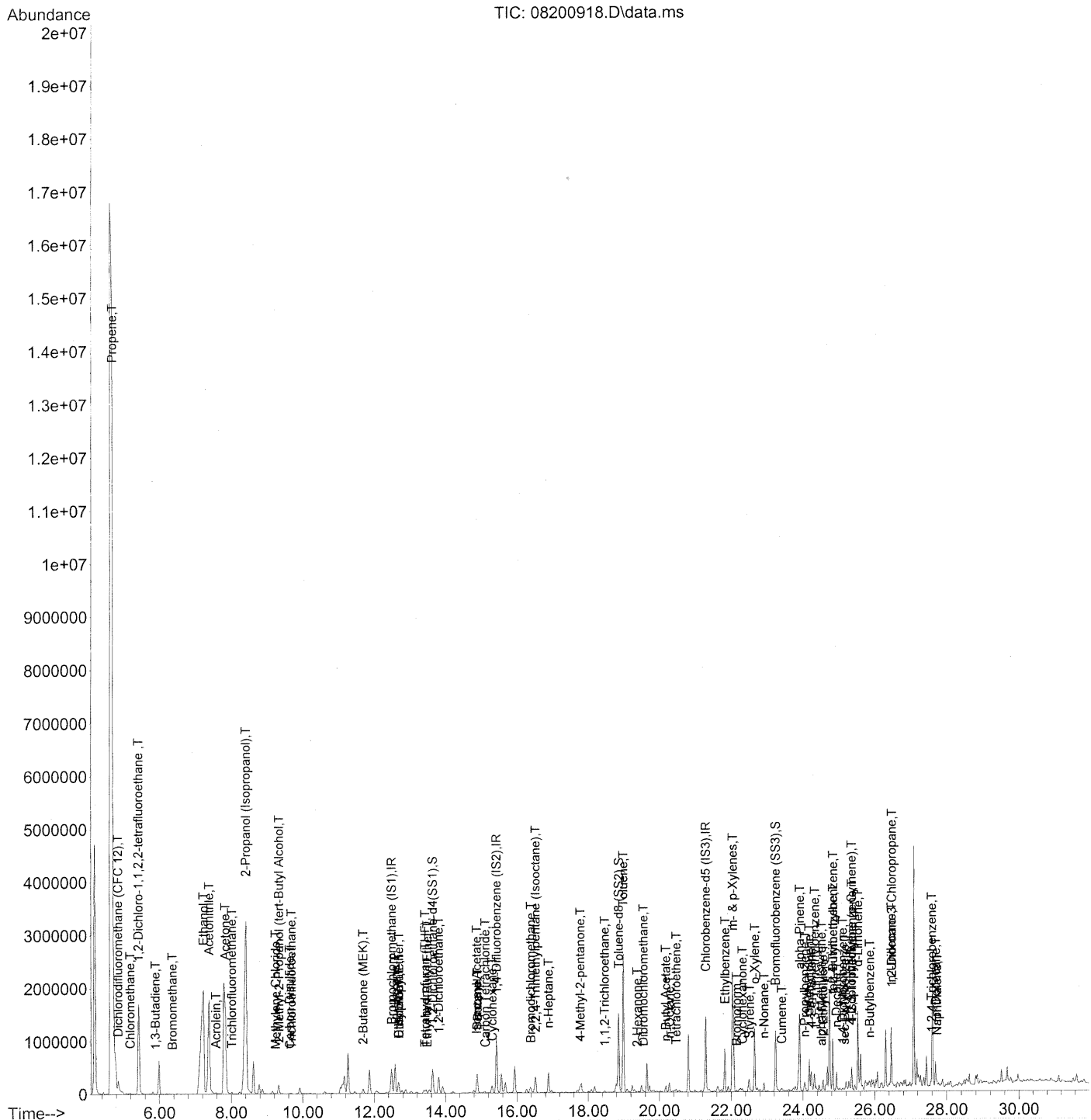
Date: _____

9/3/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309 ✓
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 13:40:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	236862	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1189916	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	577819	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	459960	22.342	ng	-0.03	
Spiked Amount				25.000			
				Recovery	=	89.36%	✓
57) Toluene-d8 (SS2)	18.85	98	1290966	25.570	ng	-0.01	✓
Spiked Amount				25.000			
				Recovery	=	102.28%	✓
73) Bromofluorobenzene (SS3)	23.23	174	372378	27.968	ng	-0.01	✓
Spiked Amount				25.000			
				Recovery	=	111.88%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	192376m	11.836	ng	
3) Dichlorodifluoromethan...	4.85	85	68605	2.582	ng	97
4) Chloromethane	5.19	50	20540	1.151	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	844	0.078	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	1253	0.102	ng	# 49
8) Bromomethane	6.37	94	635	0.061	ng	# 70
9) Chloroethane	6.70	64	127	N.D.		
10) Ethanol	7.23	45	7297849	708.328	ng	100 <i>see dil</i>
11) Acetonitrile	7.39	41	3373008	111.788	ng	100 <i>see dil</i>
12) Acrolein	7.57	56	23660	3.017	ng	93
13) Acetone	7.83	58	1008411	103.733	ng	# 60
14) Trichlorofluoromethane	8.02	101	26977	1.123	ng	99
15) 2-Propanol (Isopropanol)	8.41	45	9346530	244.659	ng	99 <i>see dil</i>
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.34	59	13668	0.403	ng	# 1
19) Methylene Chloride	9.24	84	3874	0.297	ng	89
20) 3-Chloro-1-propene (Al...	9.49	41	104	N.D.		
21) Trichlorotrifluoroethane	9.68	151	4593	0.526	ng	100
22) Carbon Disulfide	9.63	76	29377	0.638	ng	99
23) trans-1,2-Dichloroethene	10.62	61	99	N.D.		
24) 1,1-Dichloroethane	11.05	63	585	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.68	72	42003	4.785	ng	# 83
28) cis-1,2-Dichloroethene	12.40	61	91	N.D.		
29) Diisopropyl Ether	12.69	87	5486	0.467	ng	# 1
30) Ethyl Acetate	12.68	61	40449	8.846	ng	98
31) n-Hexane	12.58	57	353943	15.132	ng	99

dit 8/22/09

Data Path : J:\MS13\DATA\2009_08\20\
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	39721	1.929 ng		96
34) Tetrahydrofuran (THF)	13.43	72	3415	0.365 ng	#	1
35) Ethyl tert-Butyl Ether	13.48	87	1622	0.107 ng	#	90
36) 1,2-Dichloroethane	13.80	62	37559	1.996 ng		98
38) 1,1,1-Trichloroethane	14.18	97	631	N.D.		
39) Isopropyl Acetate	14.87	61	4001	0.453 ng	#	1
40) 1-Butanol	14.89	56	106253	6.880 ng		80
41) Benzene	14.88	78	316950	6.058 ng		99
42) Carbon Tetrachloride	15.11	117	7382	0.443 ng		93
43) Cyclohexane	15.30	84	78542	4.099 ng		92
44) tert-Amyl Methyl Ether	15.92	73	198	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D. d		
46) Bromodichloromethane	16.39	83	23865	1.384 ng	#	65
47) Trichloroethene	16.44	130	227	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D. d		
49) 2,2,4-Trimethylpentane...	16.52	57	332812	5.401 ng		92
50) Methyl Methacrylate	16.76	100	131	N.D.		
51) n-Heptane	16.88	71	117037	8.336 ng		96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	34847	2.771 ng		100
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.46	97	903	0.079 ng	#	4
58) Toluene	18.98	91	2396205	48.292 ng		98
59) 2-Hexanone	19.37	43	17406	0.528 ng		94
60) Dibromochloromethane	19.54	129	7234	0.616 ng		92
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	102373	2.632 ng		93
63) n-Octane	20.28	57	37347	3.113 ng		93
64) Tetrachloroethene	20.46	166	20425	1.779 ng		98
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.82	91	756165	13.331 ng		99
67) m- & p-Xylenes	22.03	91	2250590	49.049 ng		97
68) Bromoform	22.15	173	2193	0.225 ng		94
69) Styrene	22.51	104	68532	2.066 ng		98
70) o-Xylene	22.65	91	812472	17.661 ng		97
71) n-Nonane	22.91	43	73681	2.410 ng		99
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.41	105	39319	0.677 ng		99
75) alpha-Pinene	23.90	93	679949	22.826 ng		67
76) n-Propylbenzene	24.05	91	154586	2.116 ng		97
77) 3-Ethyltoluene	24.17	105	412682	7.431 ng		100
78) 4-Ethyltoluene	24.22	105	212256	3.944 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	165444	3.645 ng		98

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 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	3302	0.136	ng	97
81) 2-Ethyltoluene	24.56	105	140794	2.514	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	568463	12.282	ng	90
83) n-Decane	24.93	57	134487	4.469	ng	89
84) Benzyl Chloride	25.03	91	188	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.10	146	3066	0.123	ng	82
87) sec-Butylbenzene	25.16	105	10838	0.173	ng	82
88) 4-Isopropyltoluene (p-...	25.35	119	85346	1.531	ng	92
89) 1,2,3-Trimethylbenzene	25.35	105	124055	2.631	ng	97
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.53	68	383627	19.491	ng	79
92) 1,2-Dibromo-3-Chloropr...	26.46	157	1995	0.261	ng #	1
93) n-Undecane	26.46	57	403830	12.613	ng	90
94) 1,2,4-Trichlorobenzene	27.58	180	2435	0.159	ng	98
95) Naphthalene	27.73	128	60147m	0.957	ng	98
96) n-Dodecane	27.70	57	156037	4.195	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	23320	1.134	ng	97
99) tert-Butylbenzene	24.83	119	68799	1.536	ng #	56
100) n-Butylbenzene	25.86	91	40057	0.777	ng #	43

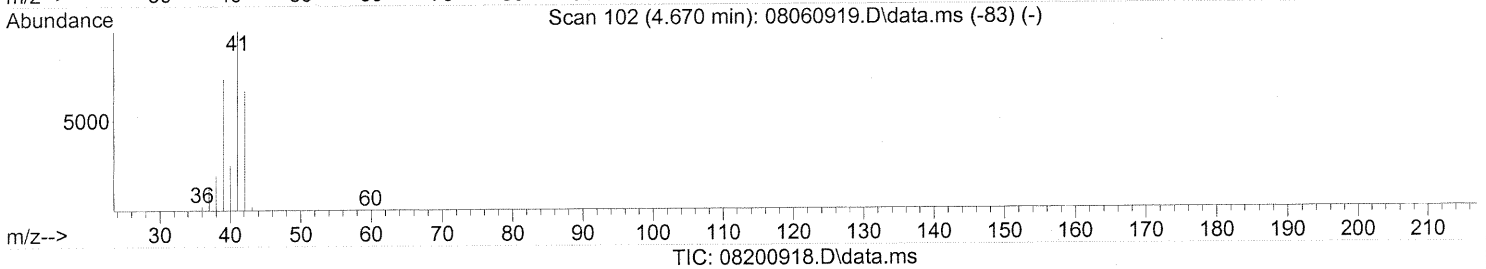
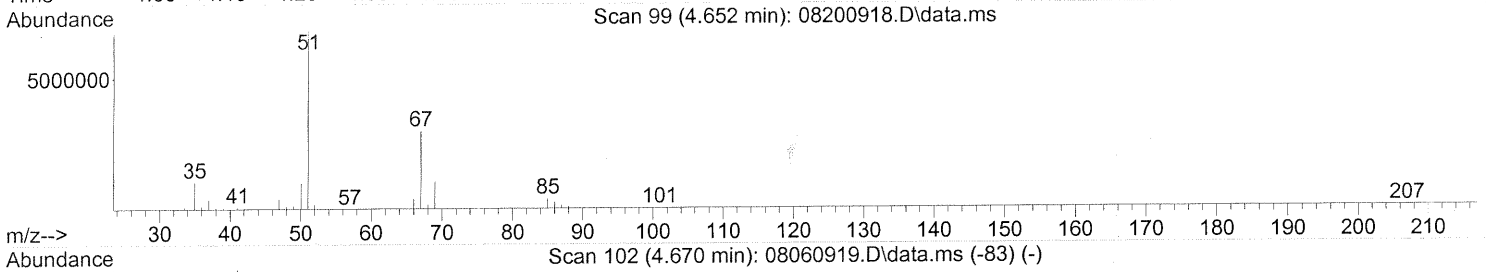
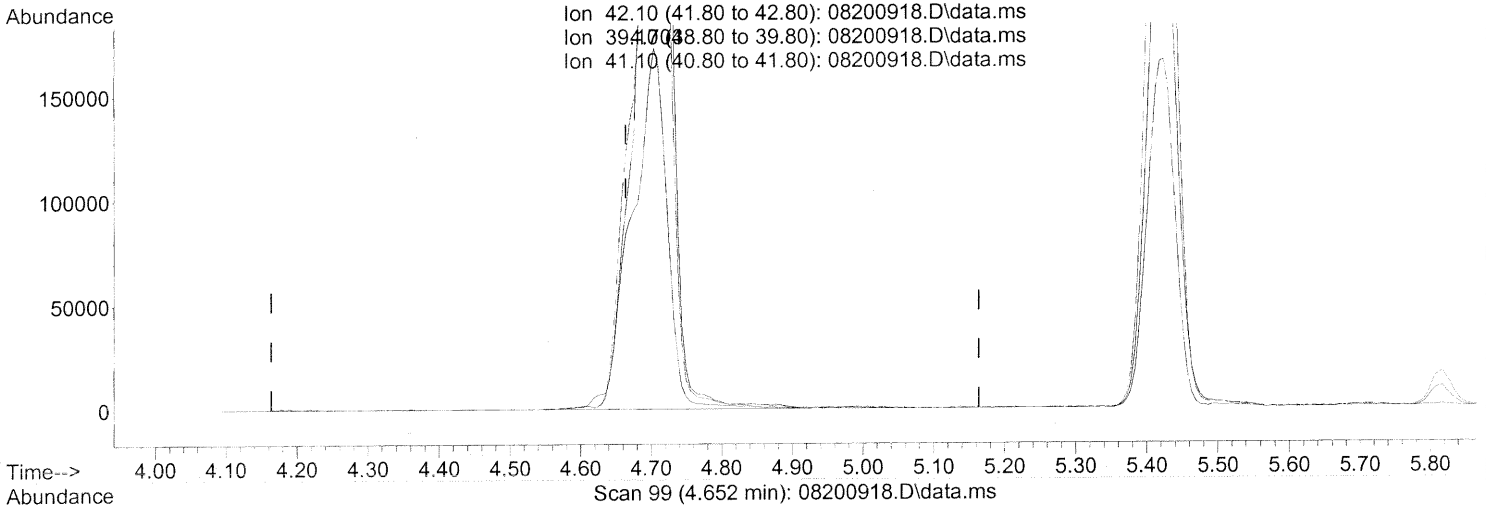
MRL
 8/27/09

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.704min (+0.040) 36.81ng

response 598304

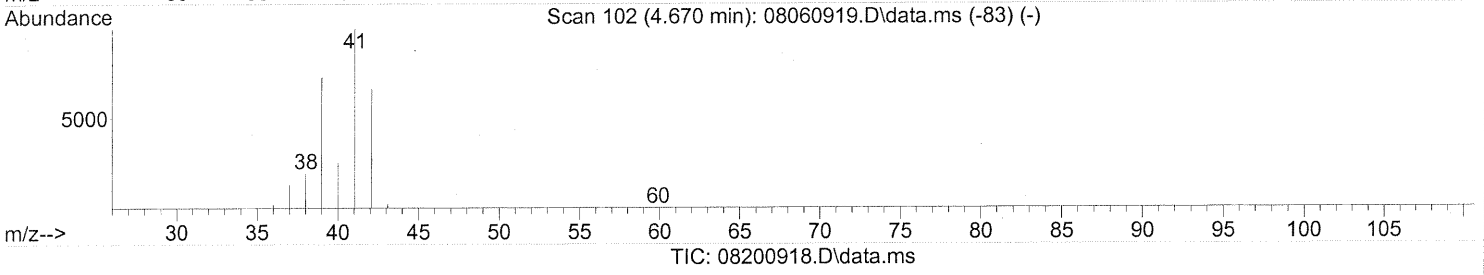
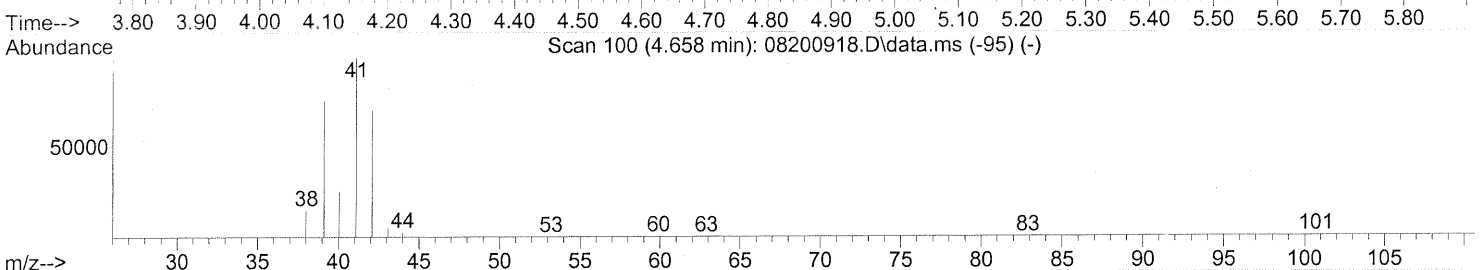
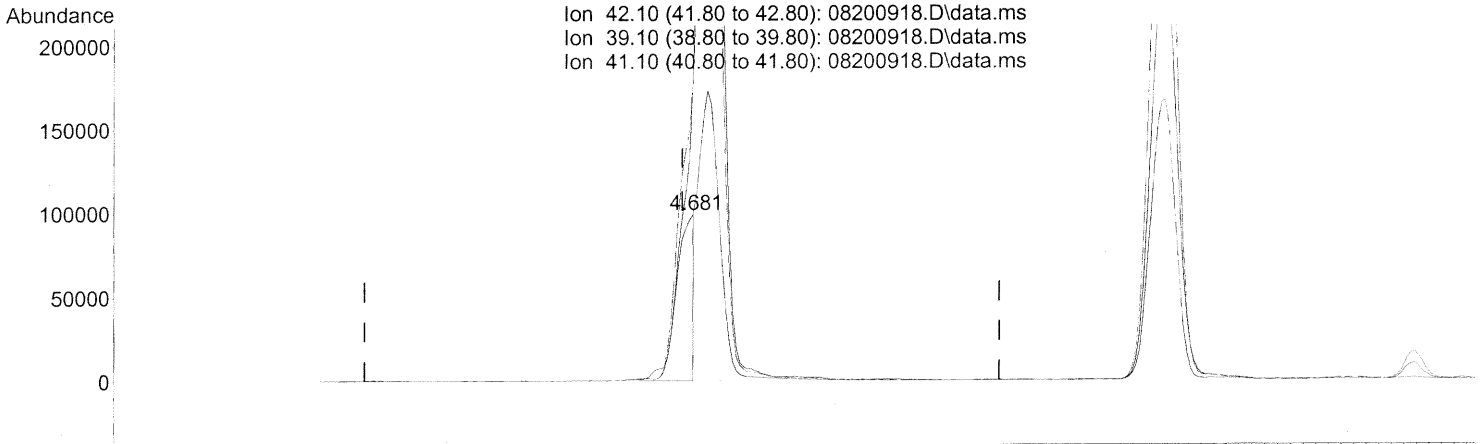
SA

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	275.34#
41.10	150.20	226.45#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 13:36:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.681min (+0.017) 11.84ng m

response 192376

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	856.32#
41.10	150.20	704.29#
0.00	0.00	0.00

SH → IC & after substn.

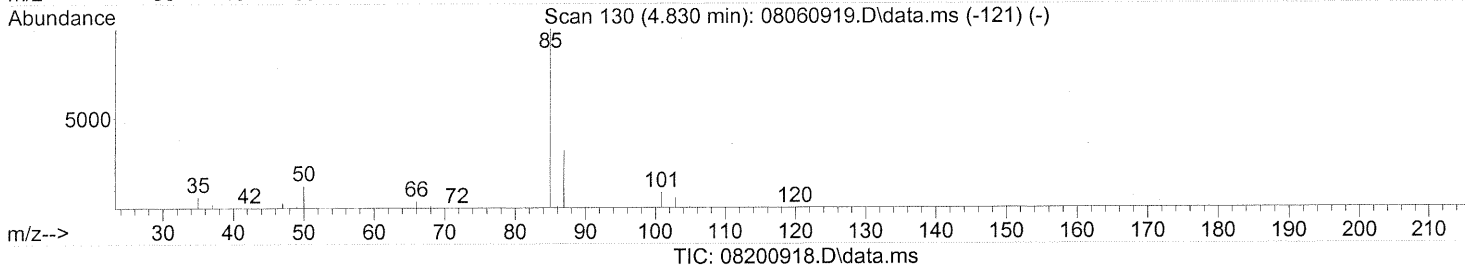
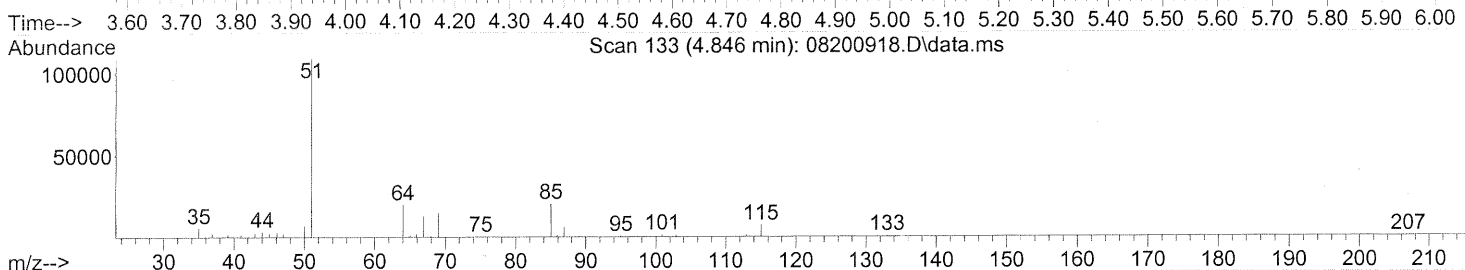
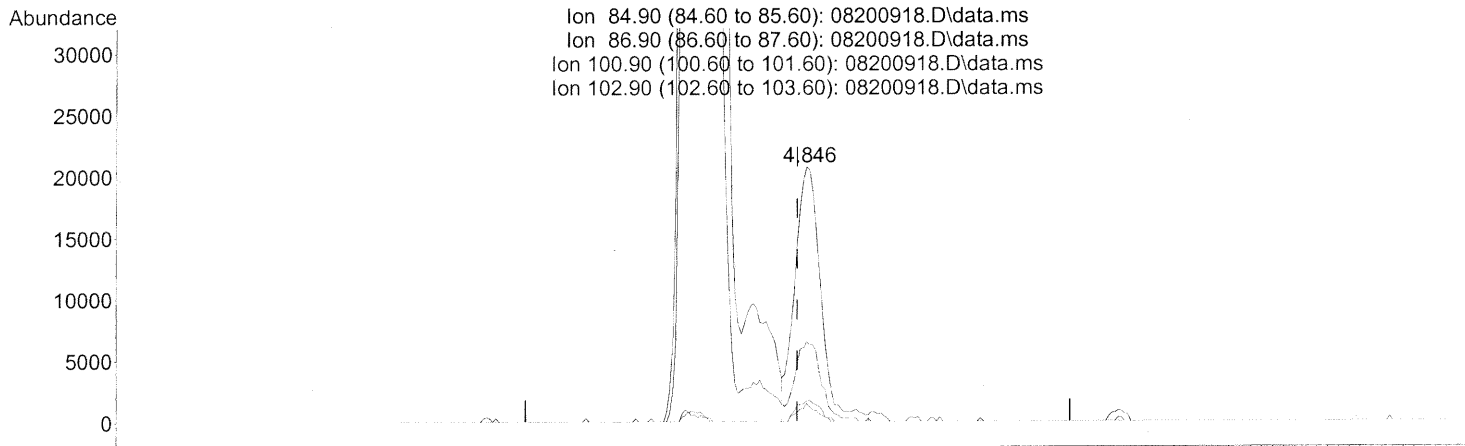
DA 8/22/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.846min (+0.017) 2.58ng

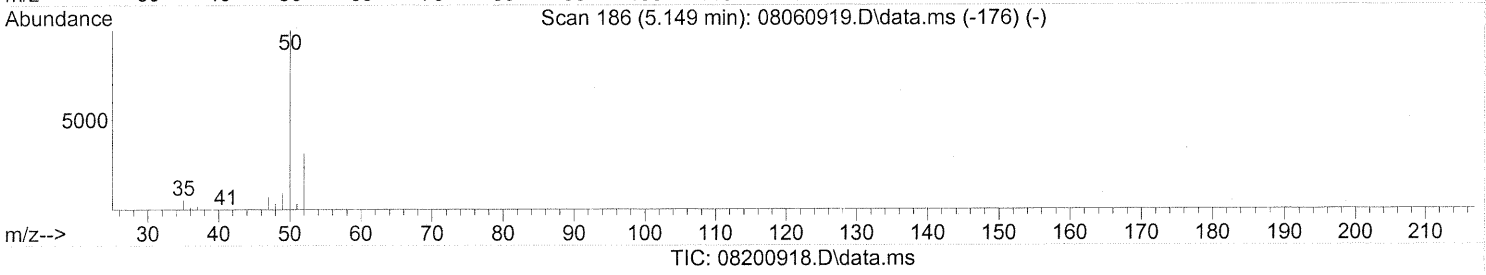
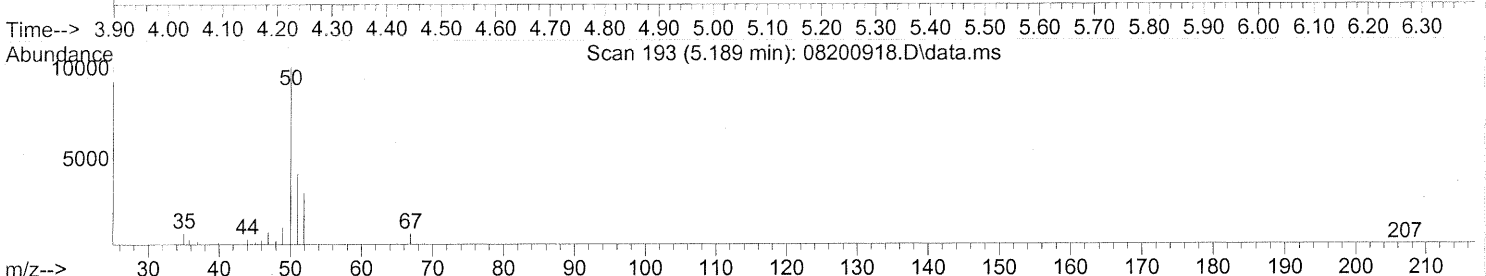
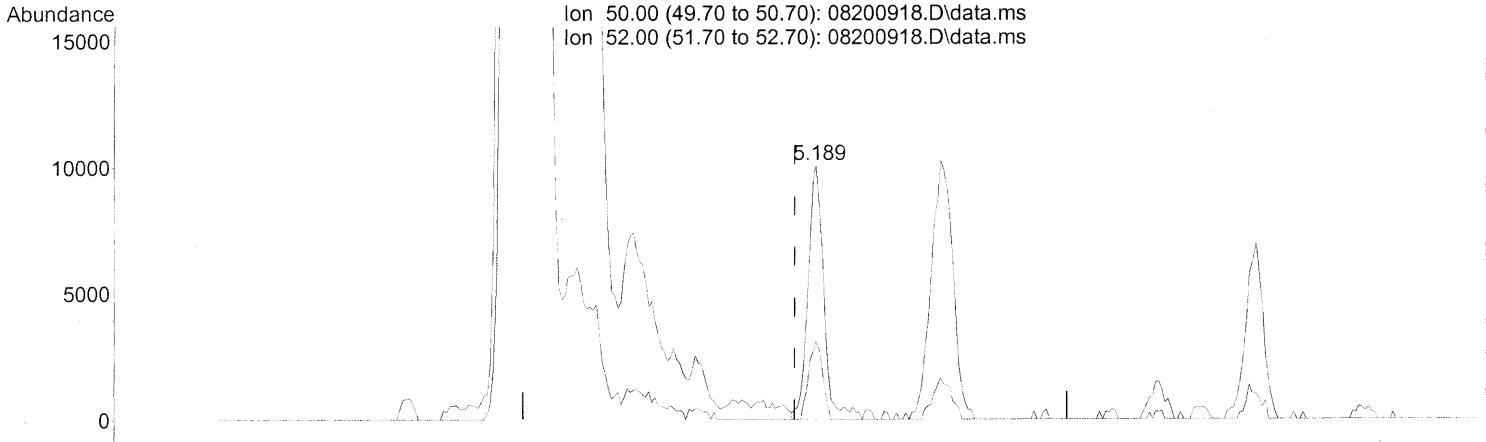
response 68605

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.31
100.90	8.80	7.41
102.90	5.20	5.01

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

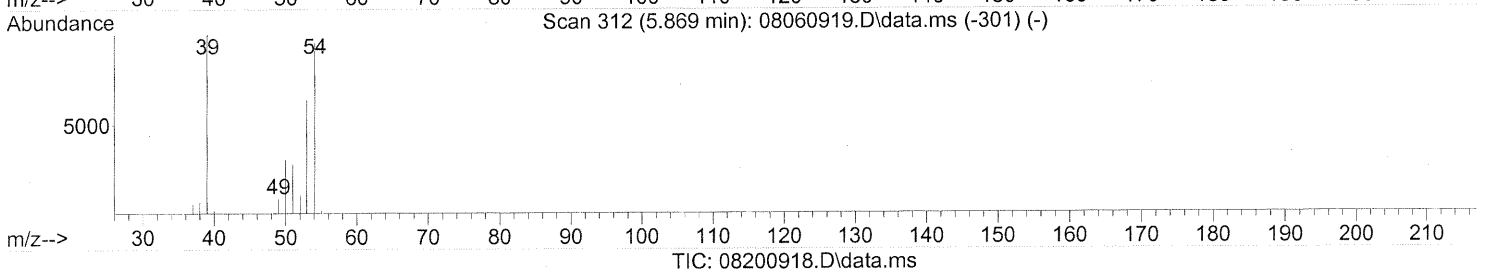
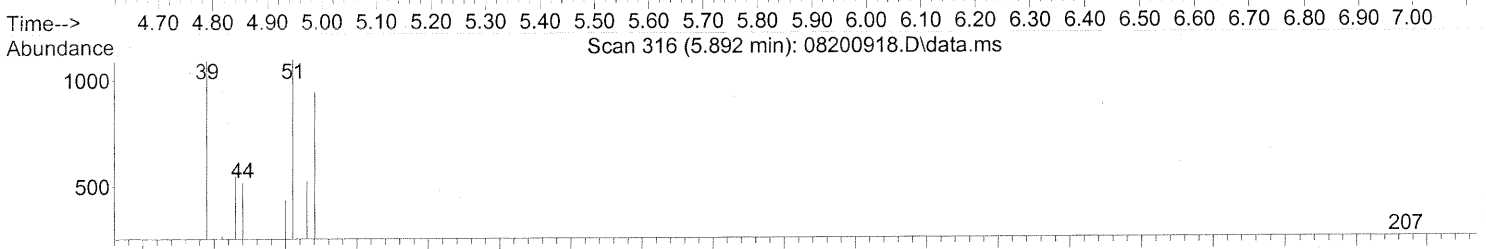
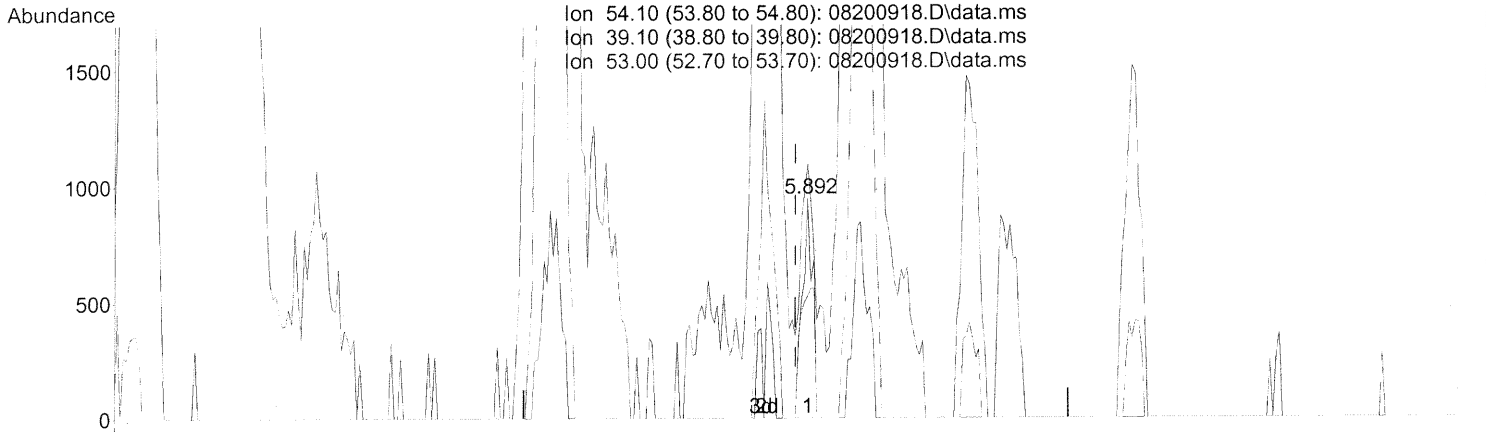
5.189min (+0.040) 1.15ng
 response 20540

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	27.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



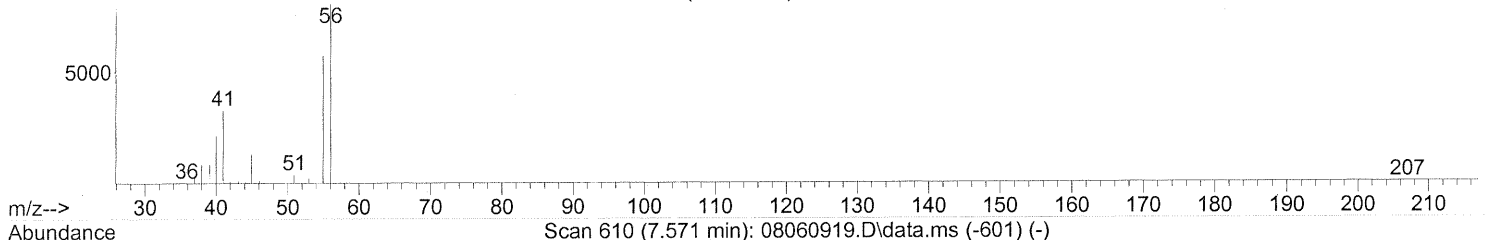
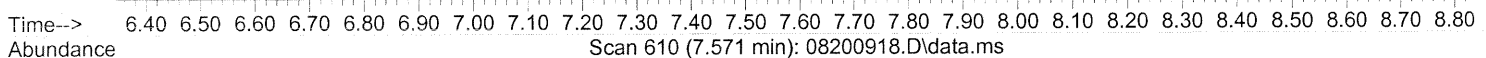
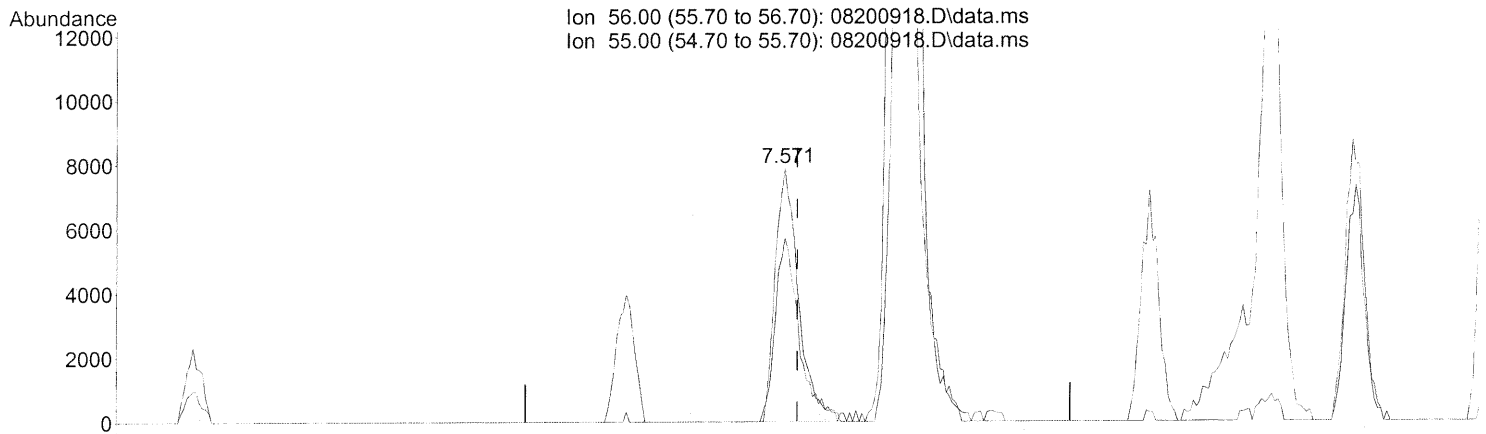
(7) 1,3-Butadiene (T)
 5.892min (+0.023) 0.10ng
 response 1253

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	184.04#
53.00	69.50	80.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 3.02ng

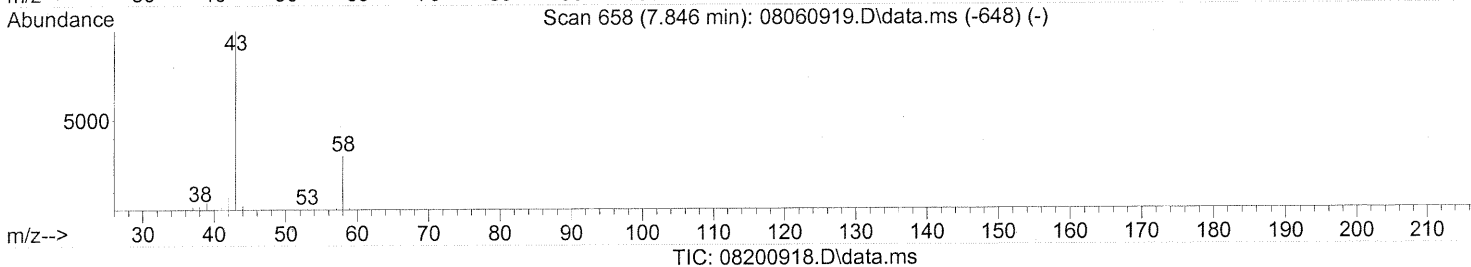
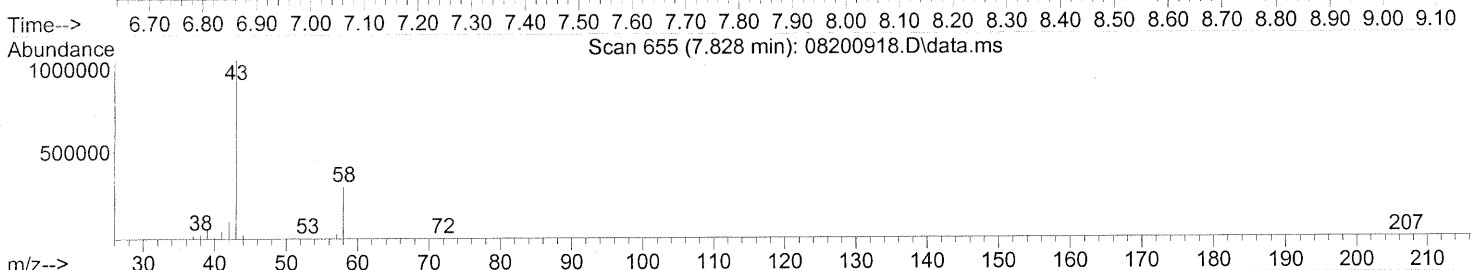
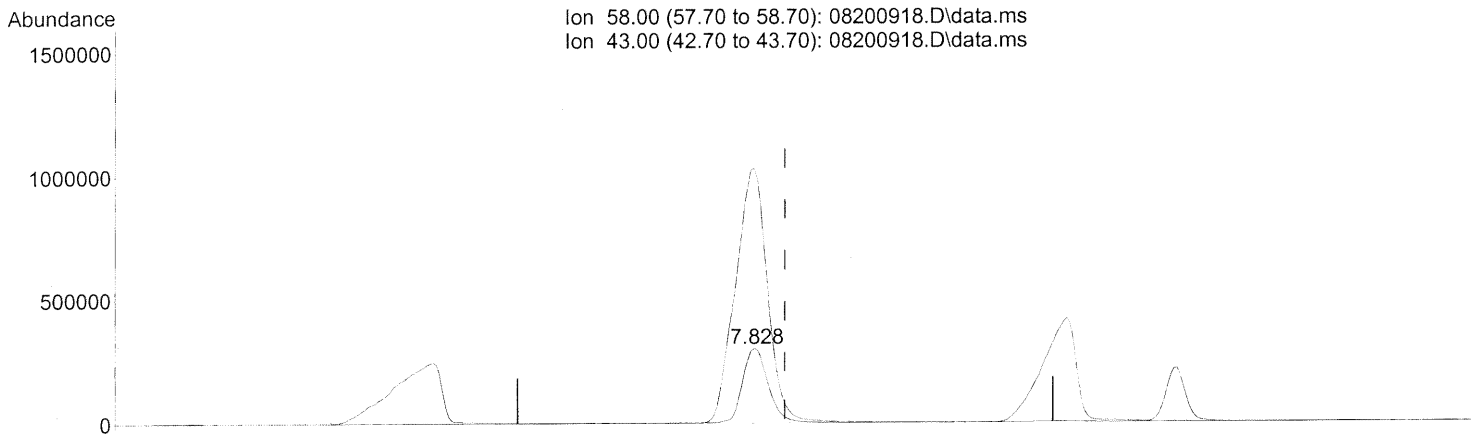
response 23660

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	73.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
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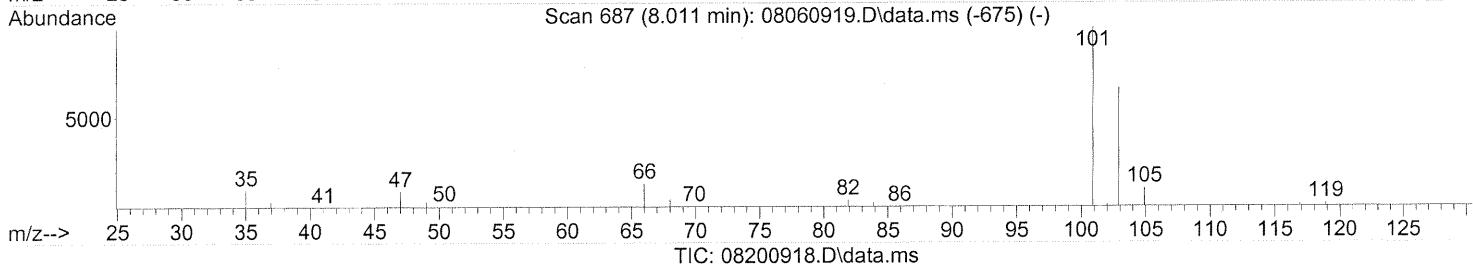
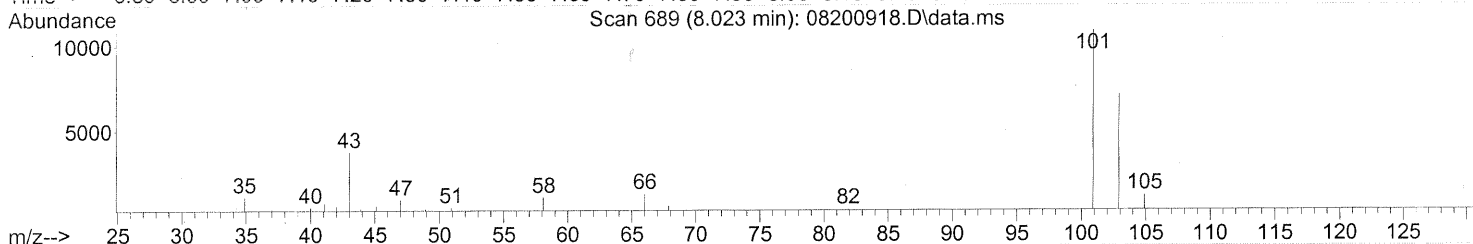
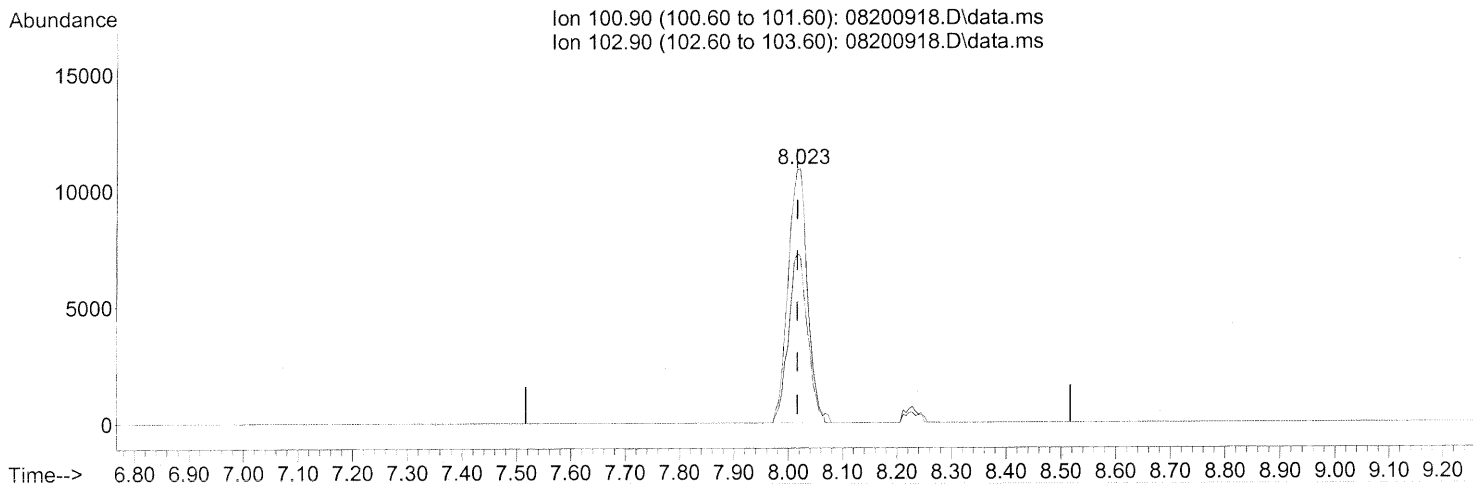
(13) Acetone (T)
 7.828min (-0.058) 103.73ng
 response 1008411

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	426.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
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(14) Trichlorofluoromethane (T)

8.023min (+0.006) 1.12ng

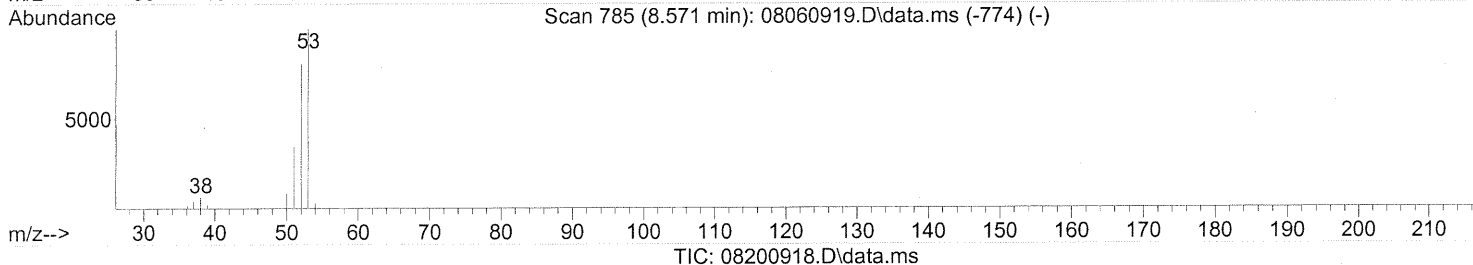
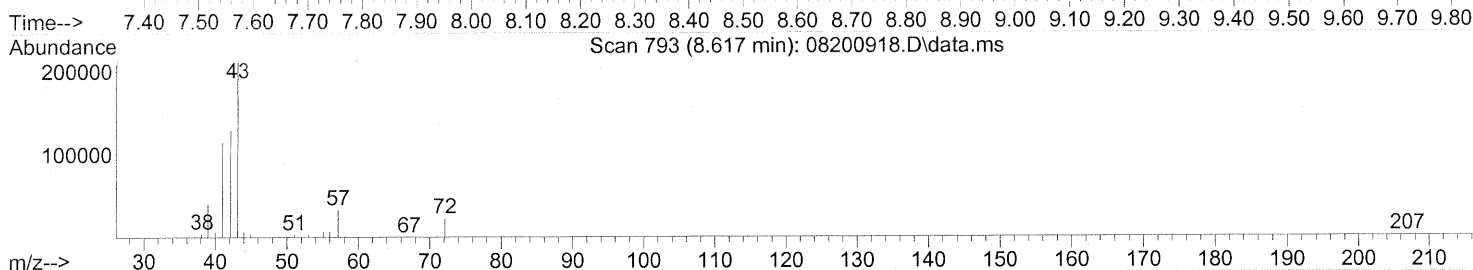
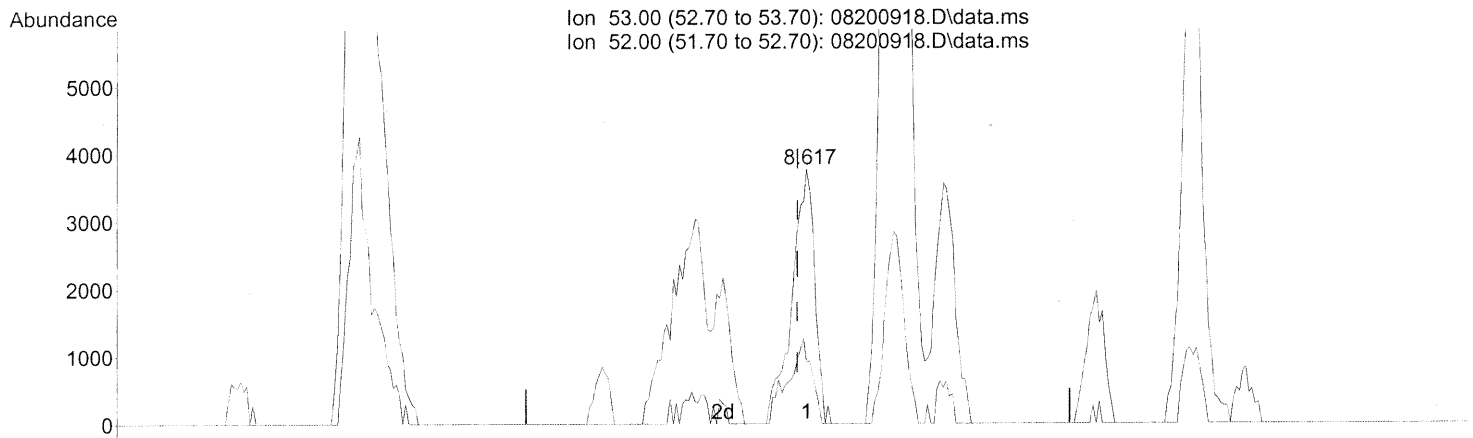
response 26977

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.617min (+0.017) 0.63ng
 response 11058

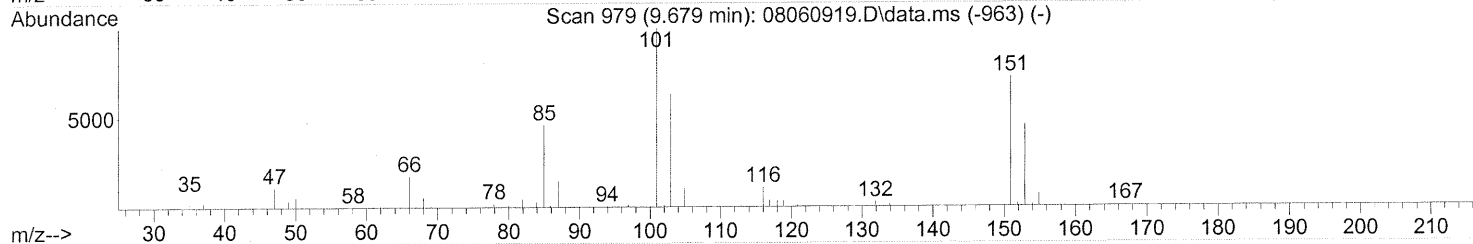
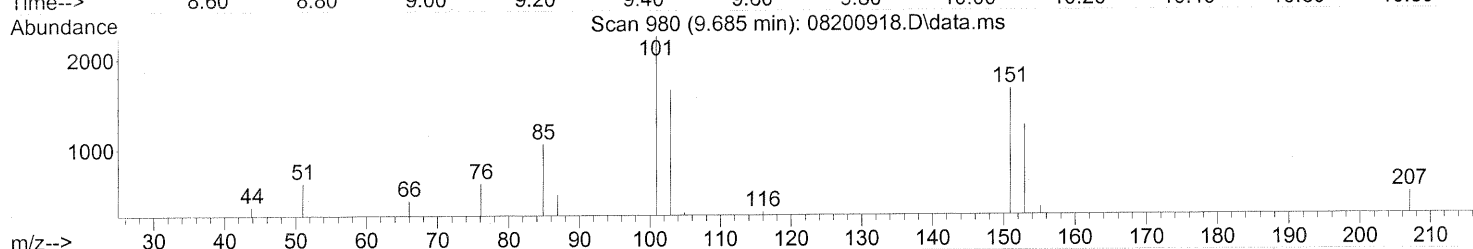
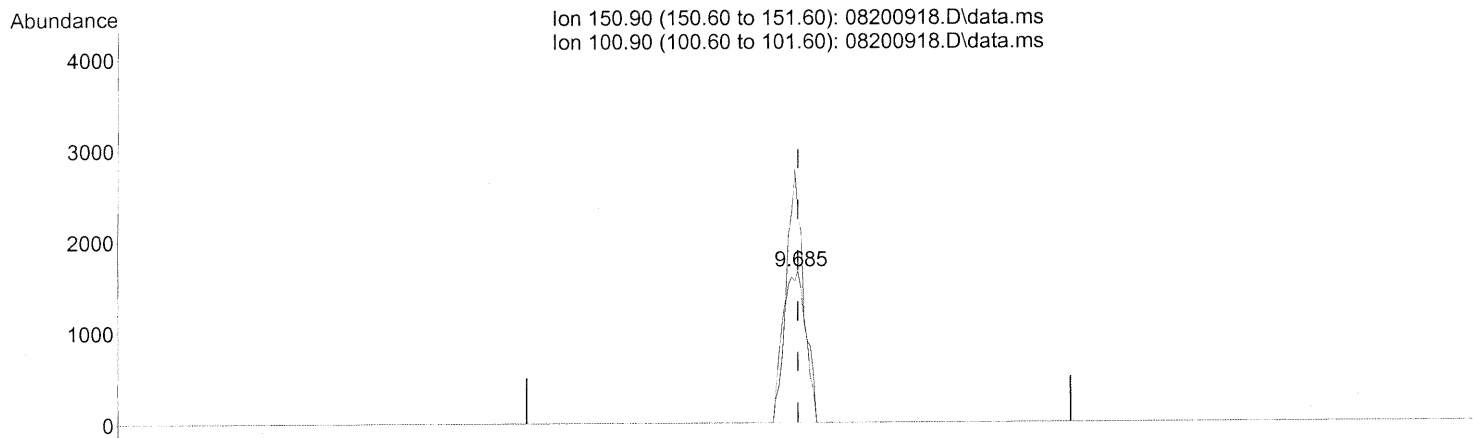
Ion	Exp%	Act%
53.00	100	100
52.00	81.20	22.88#
0.00	0.00	0.00
0.00	0.00	0.00

TP
WA 8/22/09 *8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.685min (-0.000) 0.53ng

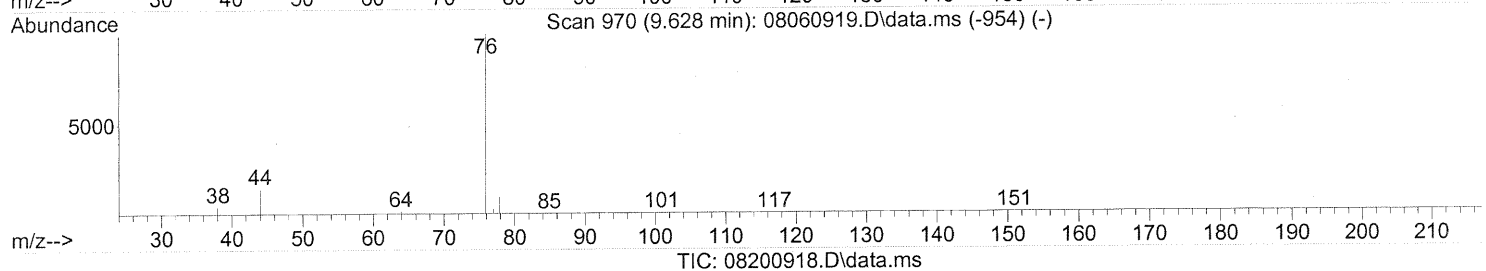
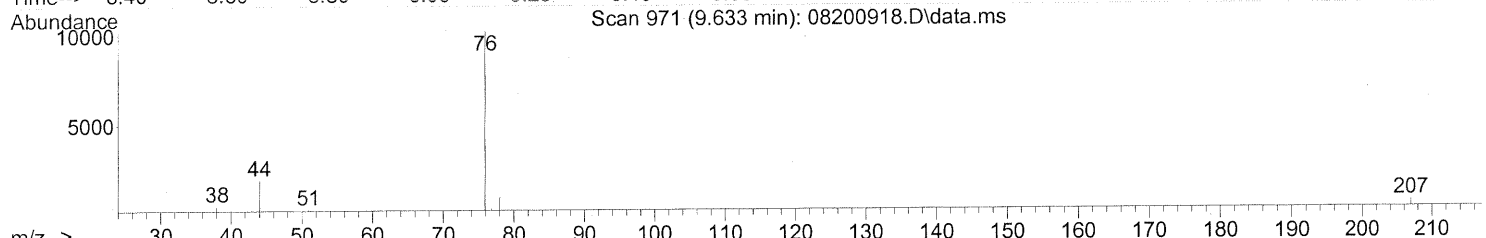
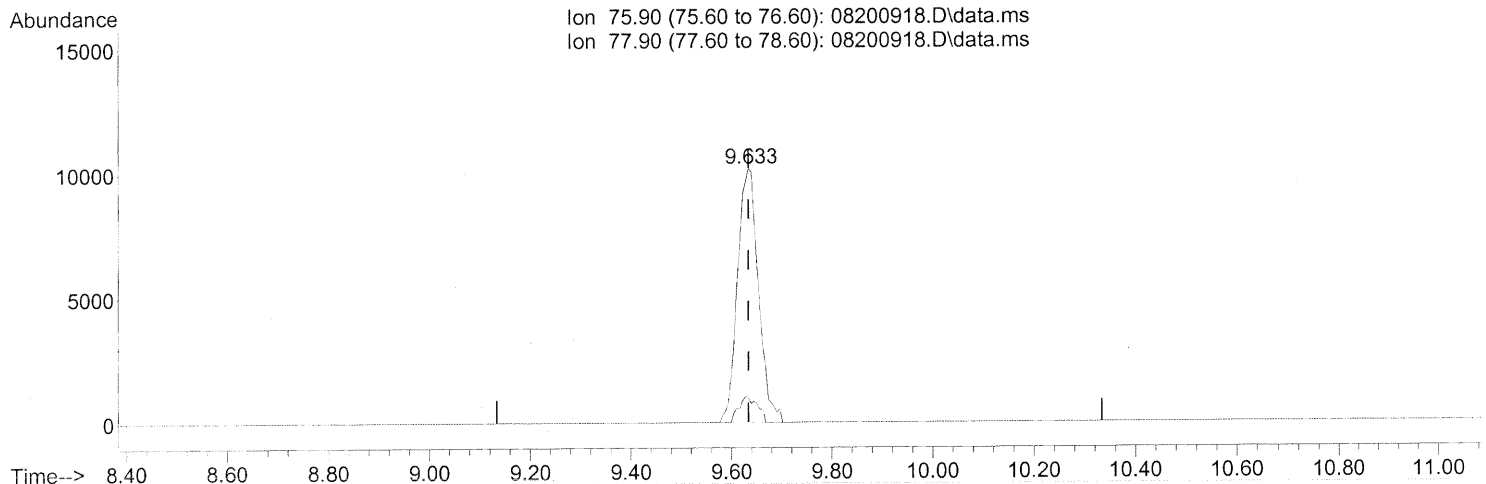
response 4593

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	138.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.633min (-0.000) 0.64ng

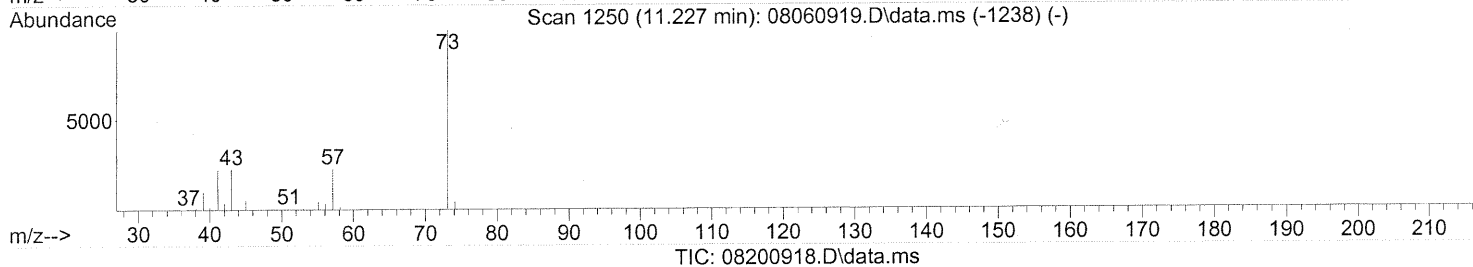
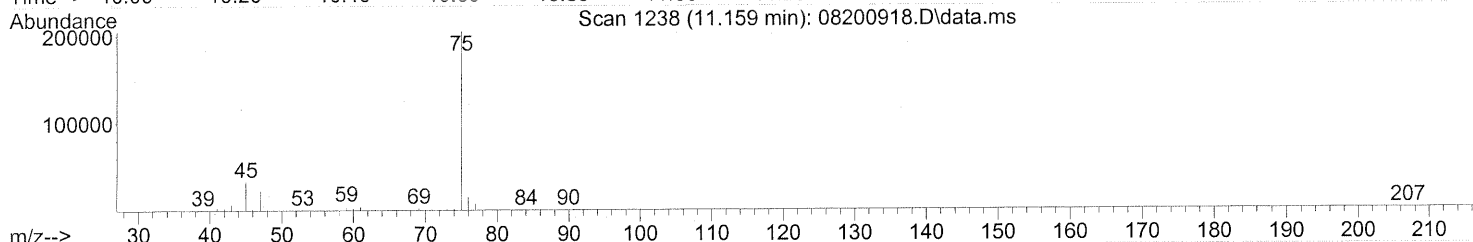
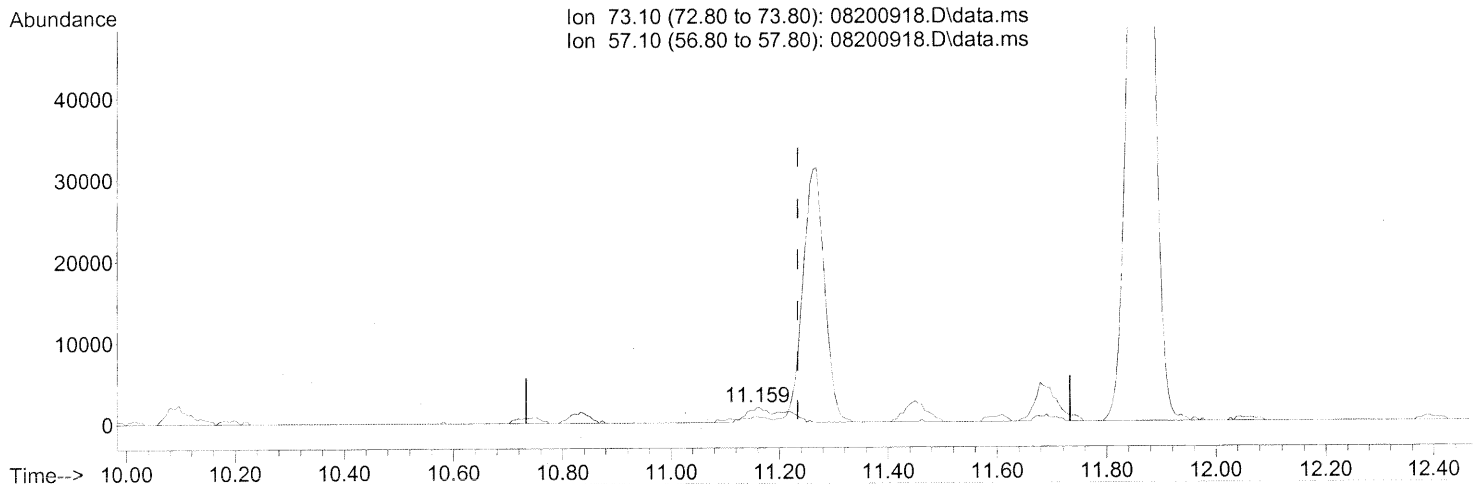
response 29377

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.159min (-0.074) 0.24ng

response 8687

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	17.14
0.00	0.00	0.00
0.00	0.00	0.00

TP

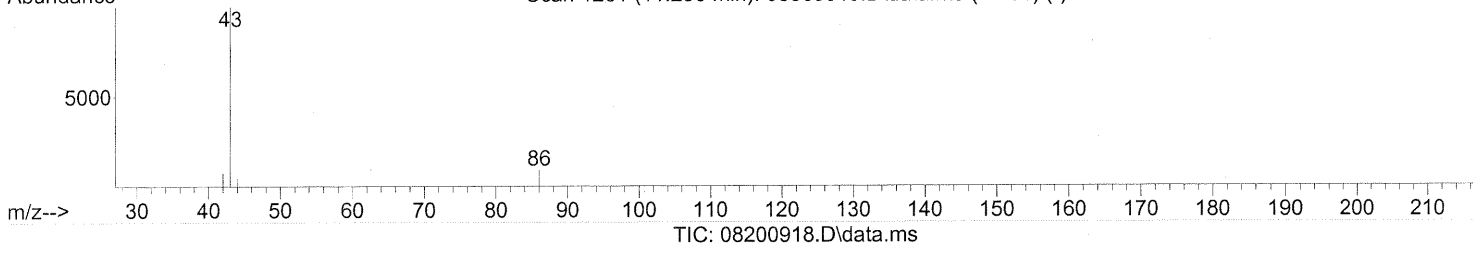
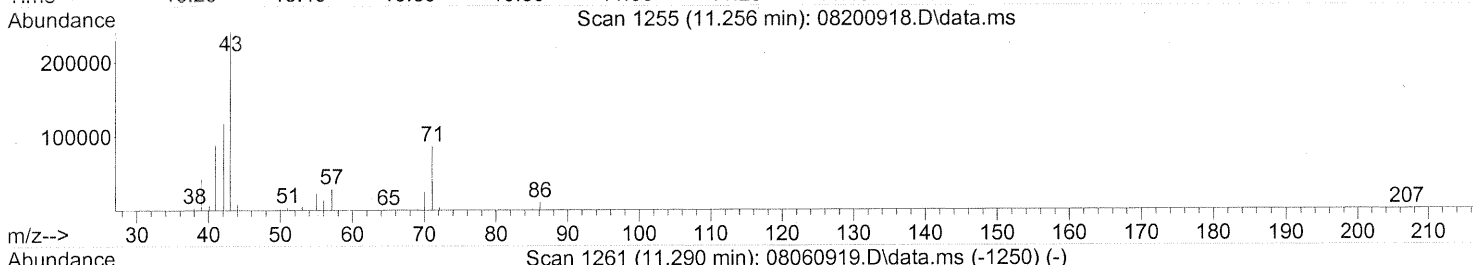
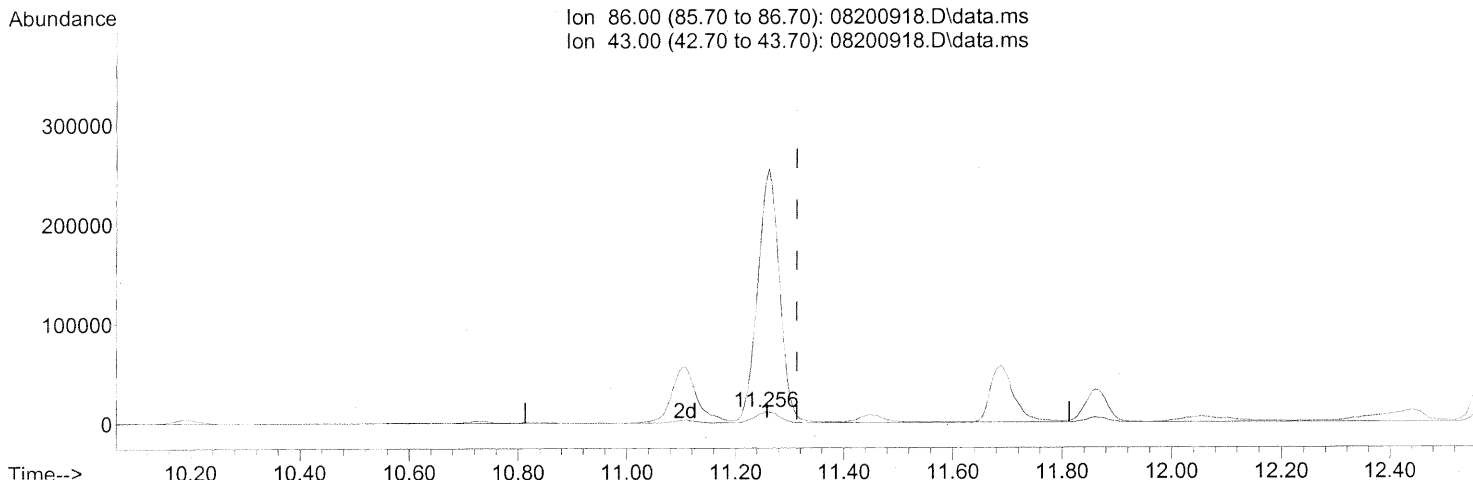
8/26/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.256min (-0.057) 16.79ng

response 33222

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	2141.29#
0.00	0.00	0.00
0.00	0.00	0.00

TP

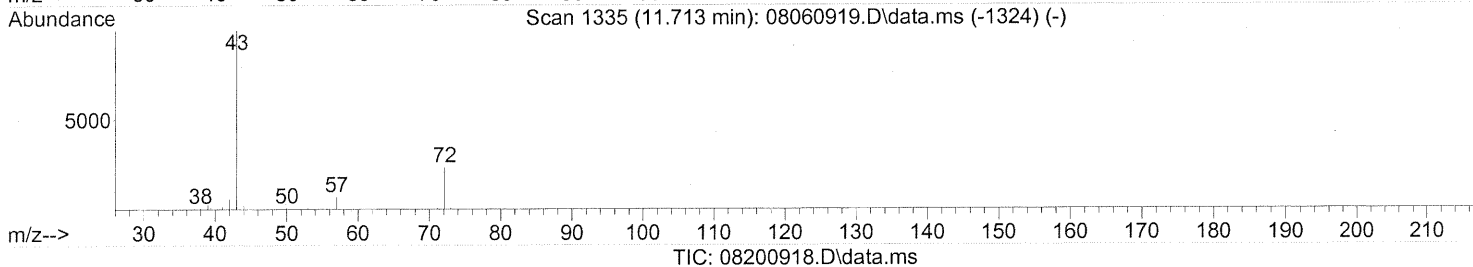
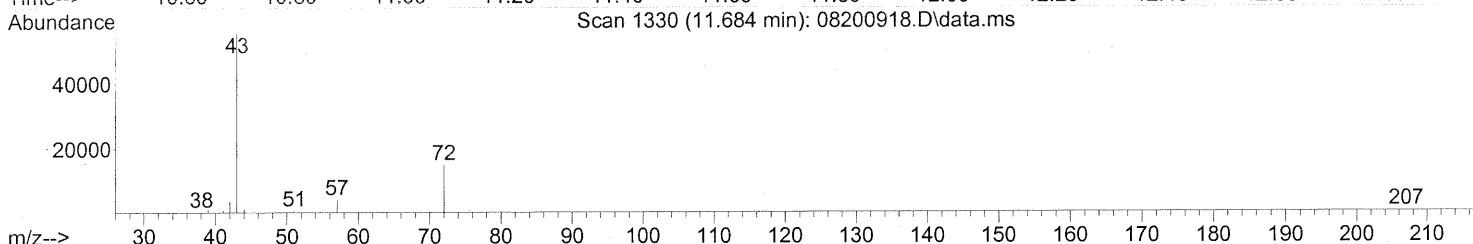
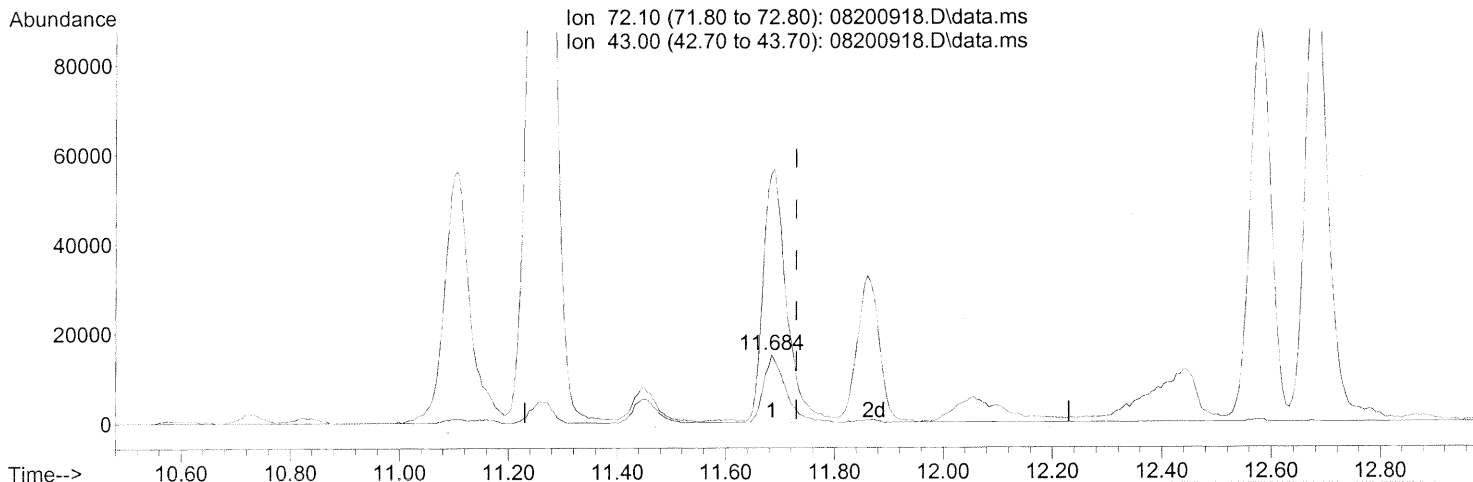
WA 8/22/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.684min (-0.046) 4.79ng

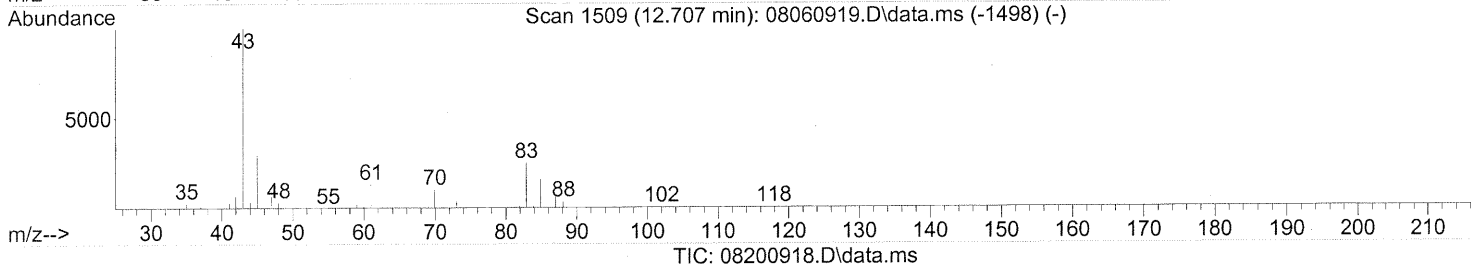
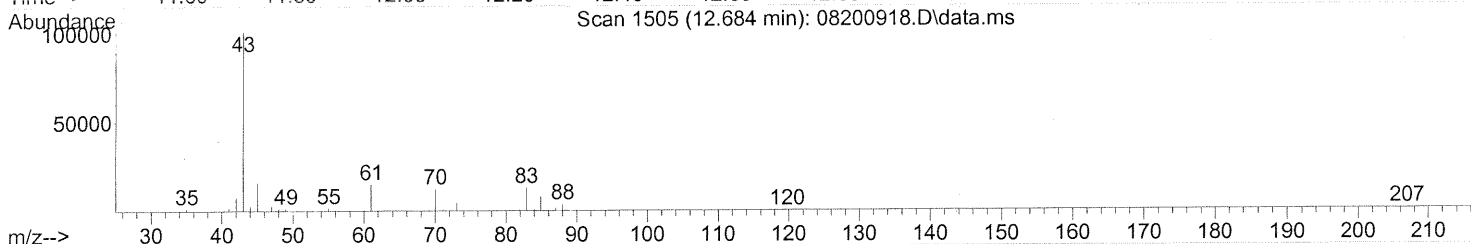
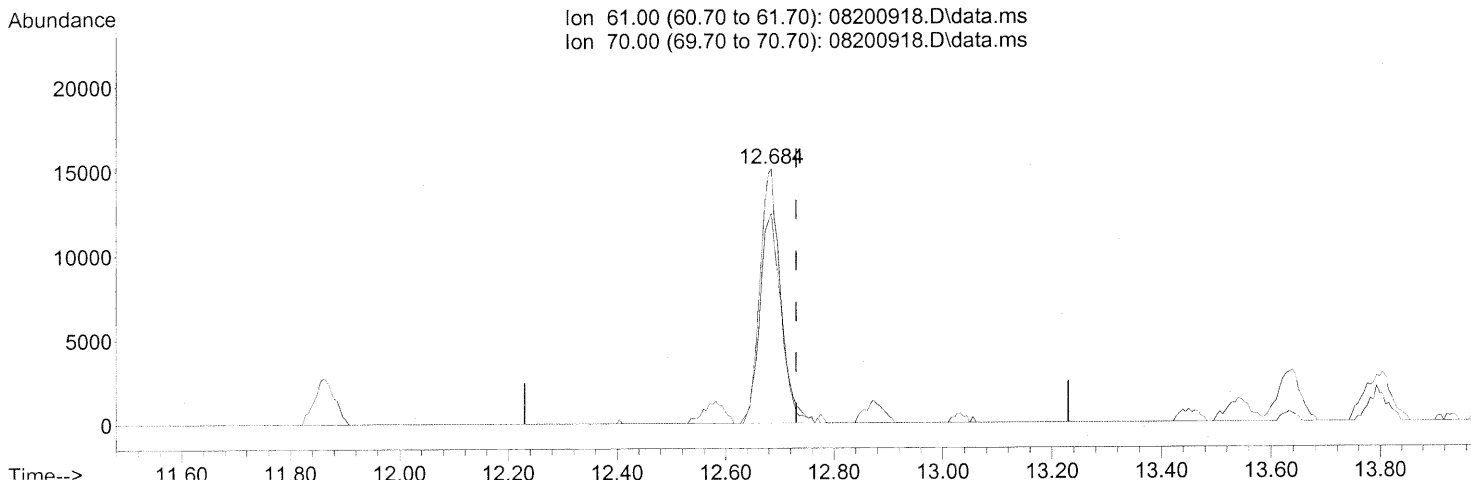
response 42003

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	395.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



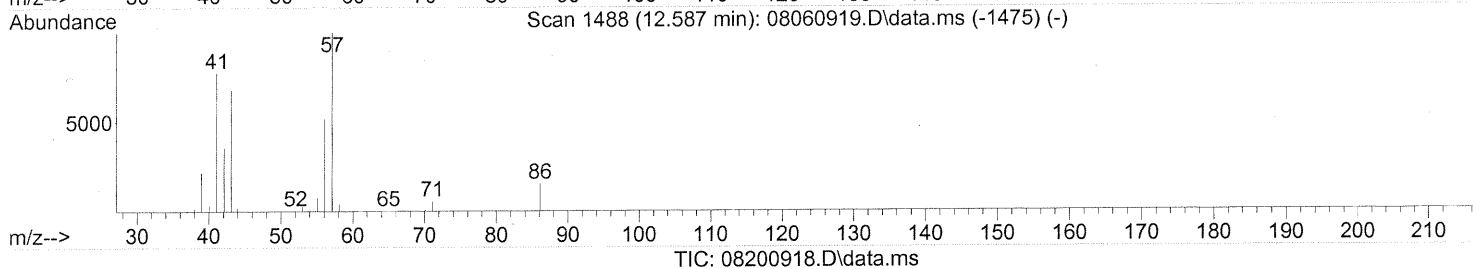
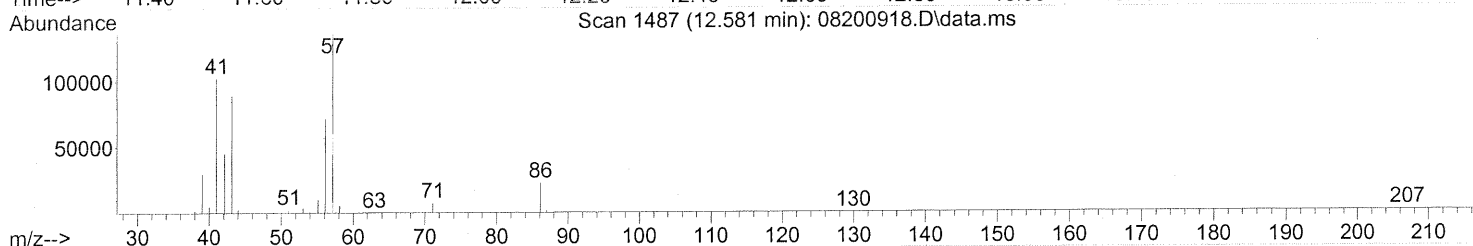
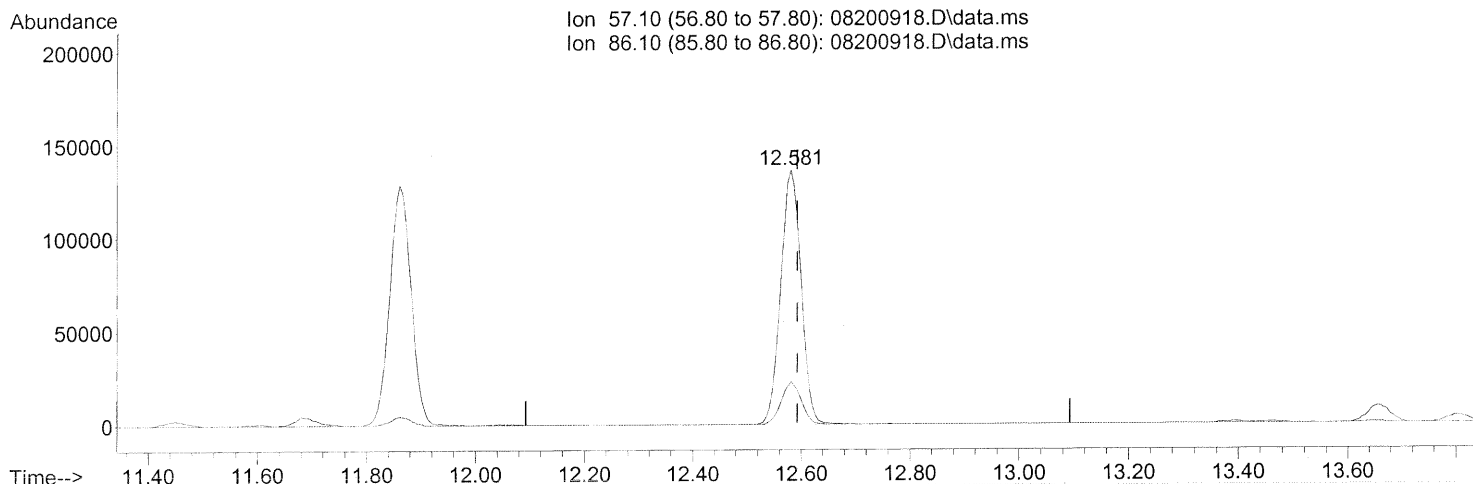
(30) Ethyl Acetate (T)
 12.684min (-0.046) 8.85ng
 response 40449

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	83.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.581min (-0.011) 15.13ng

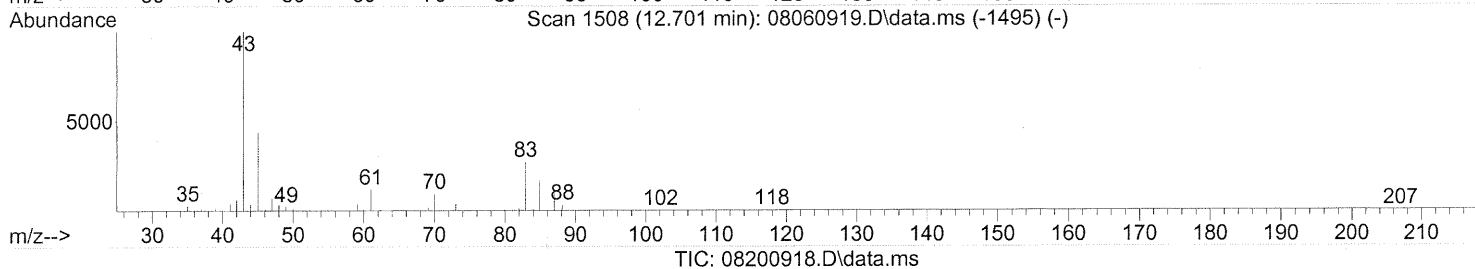
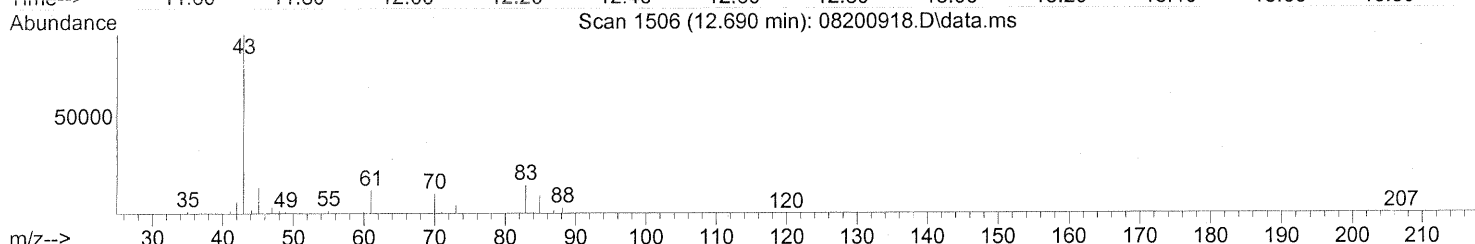
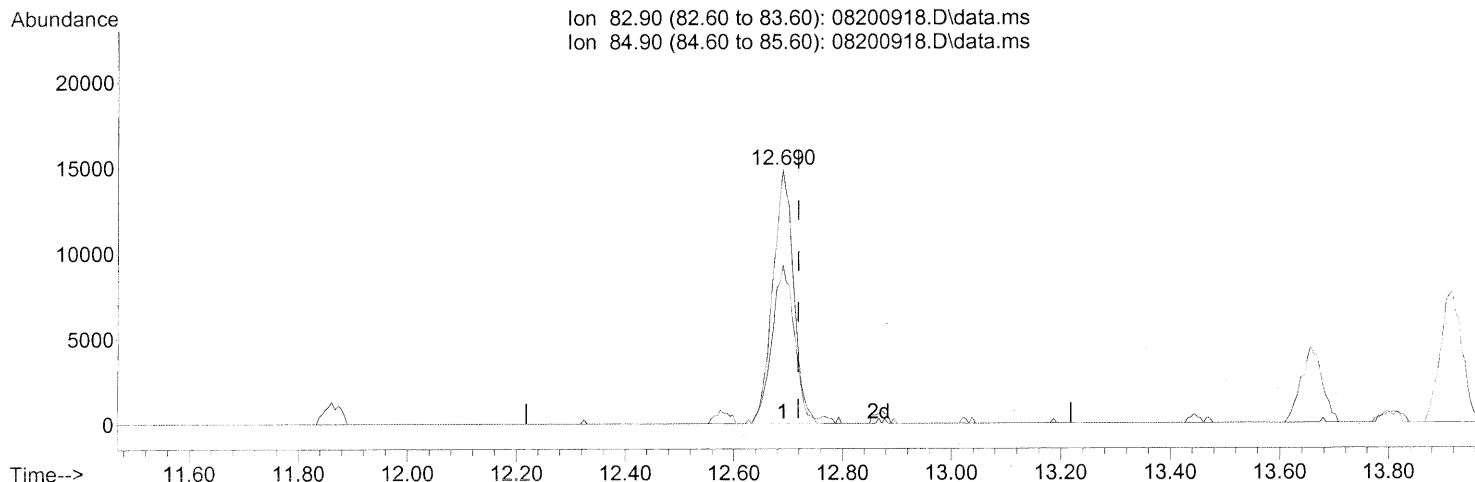
response 353943

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



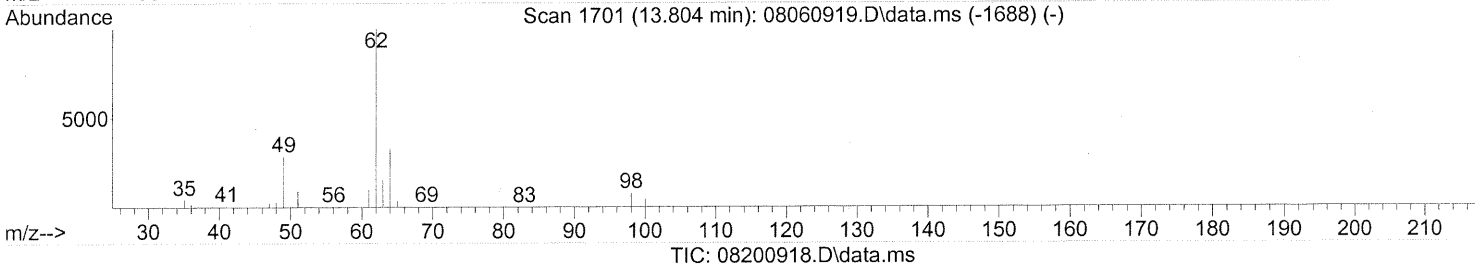
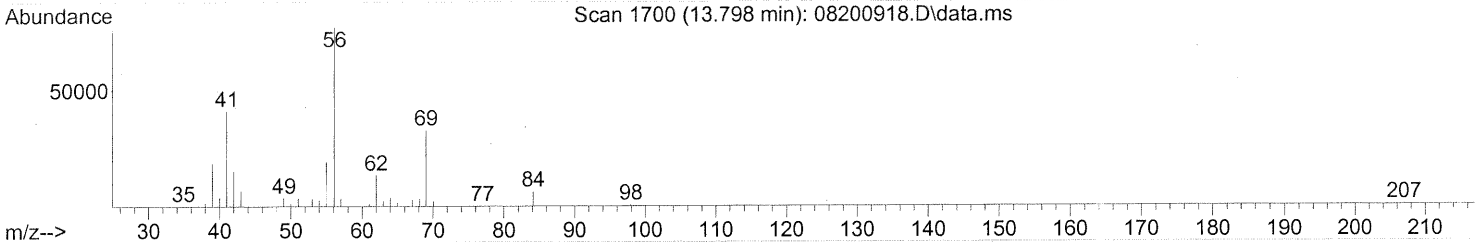
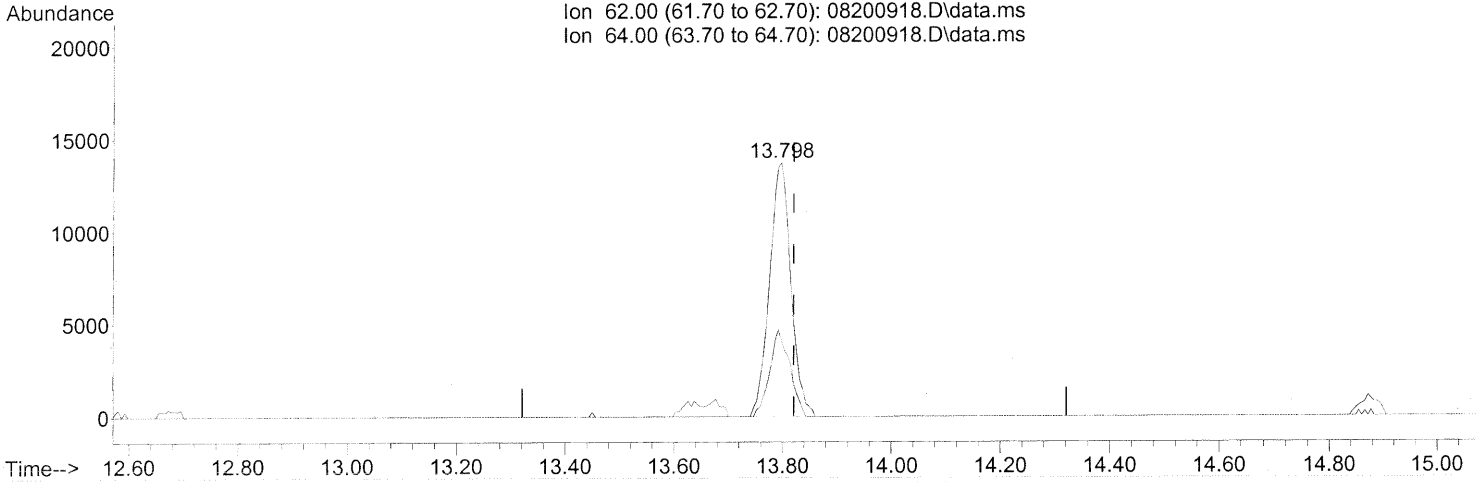
(32) Chloroform (T)
 12.690min (-0.029) 1.93ng
 response 39721

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	67.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 2.00ng

response 37559

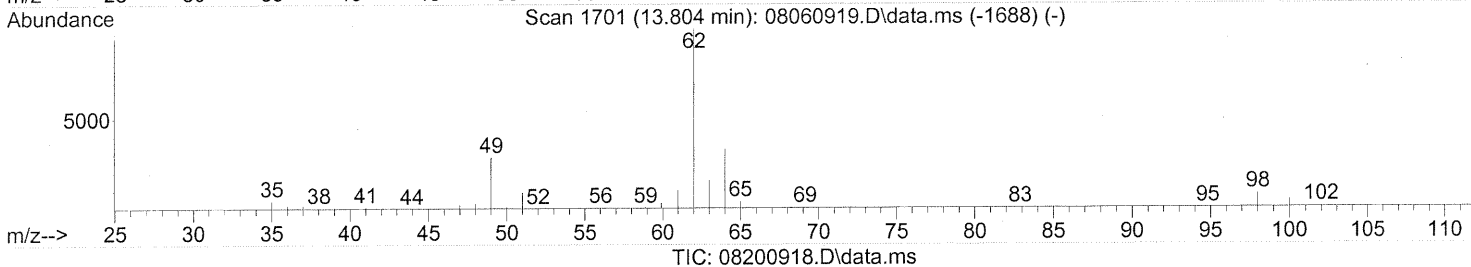
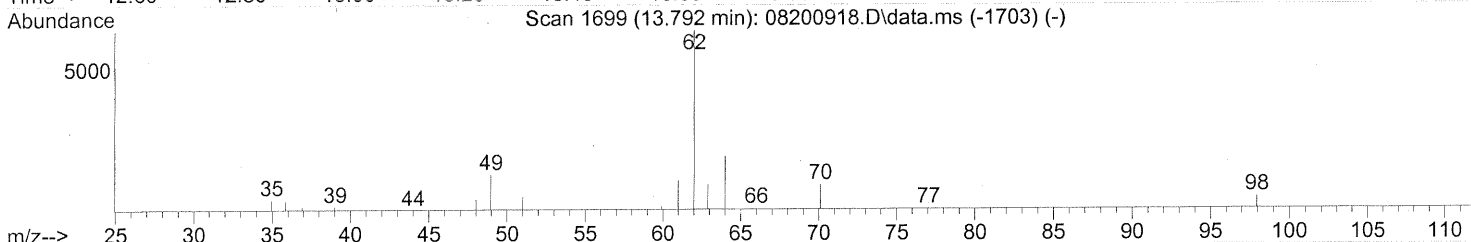
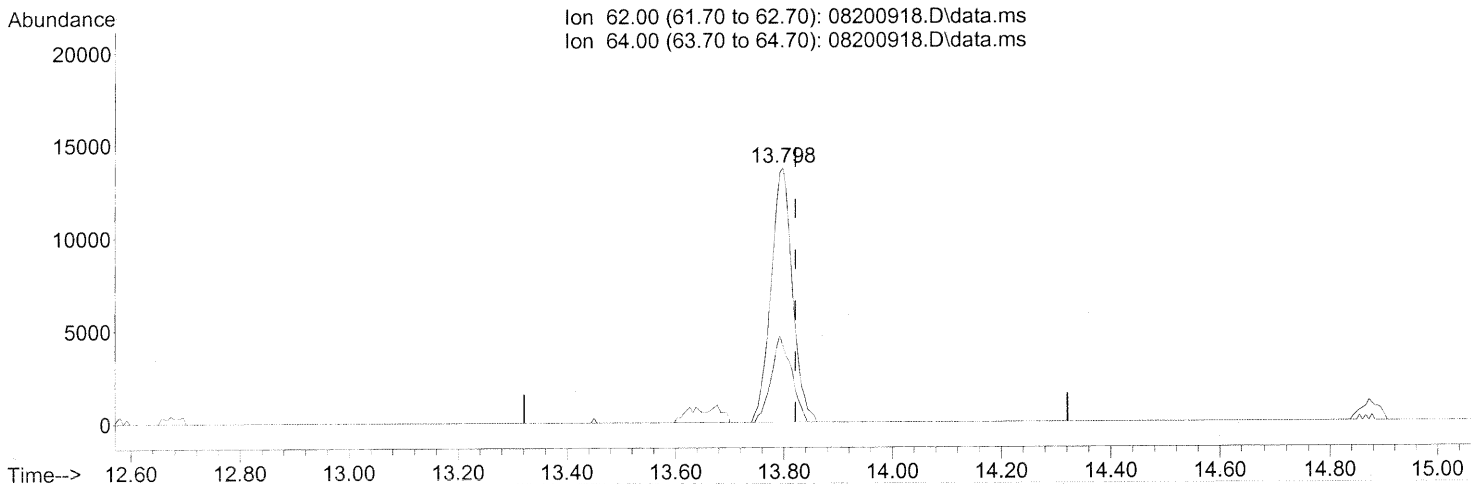
before

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 2.00ng

response 37559

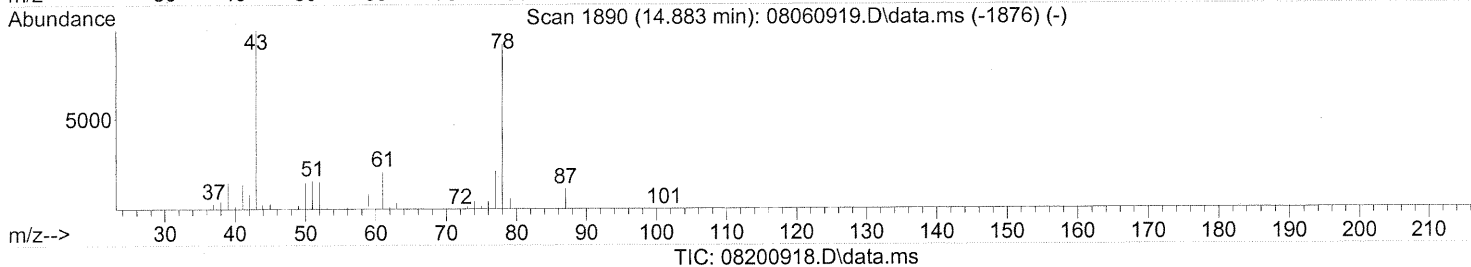
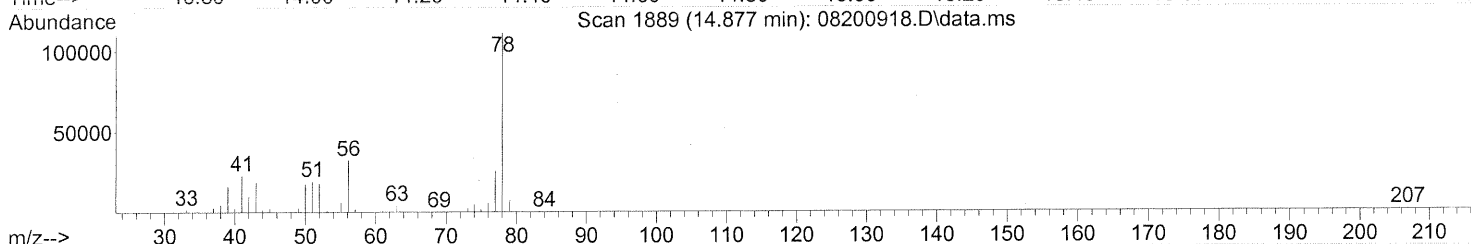
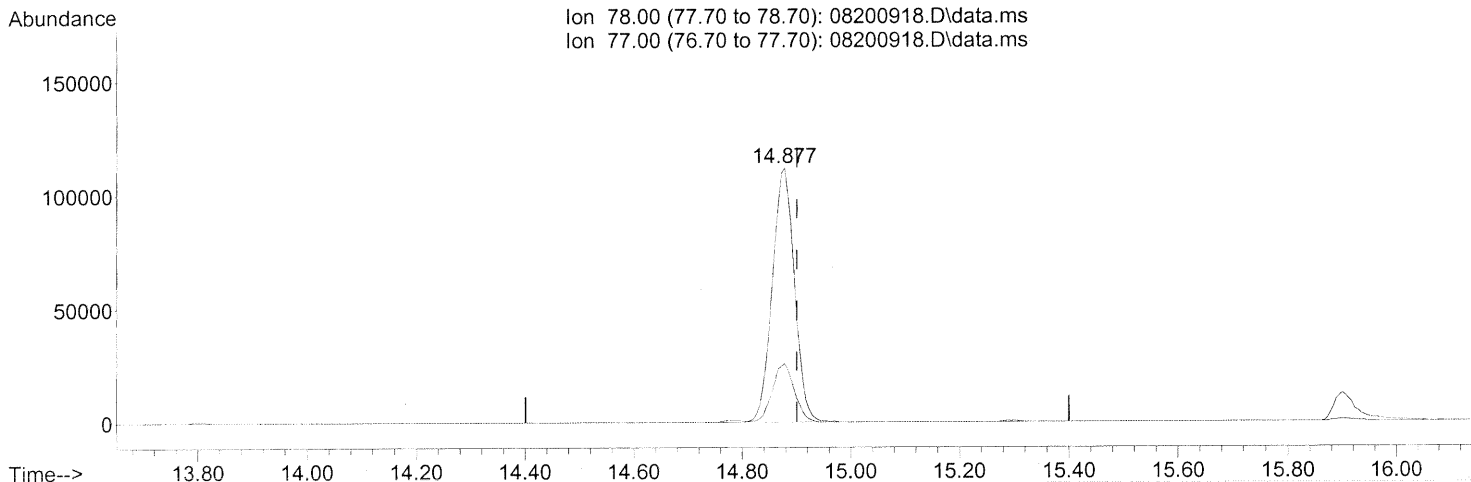
Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.05
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.877min (-0.023) 6.06ng

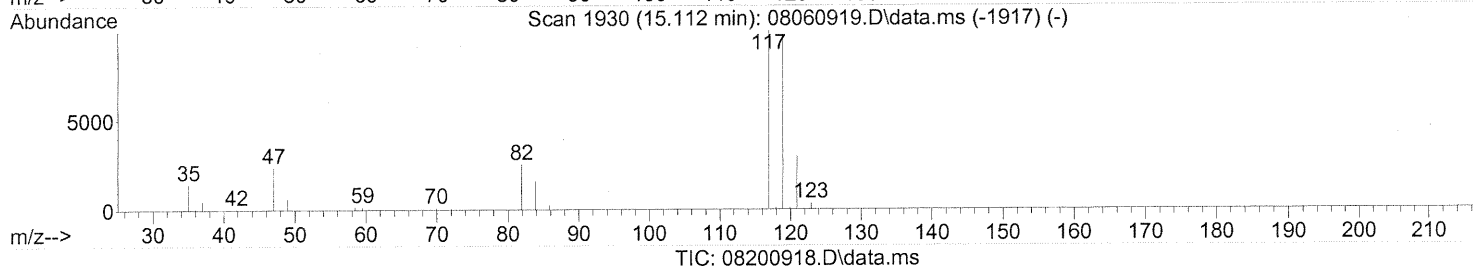
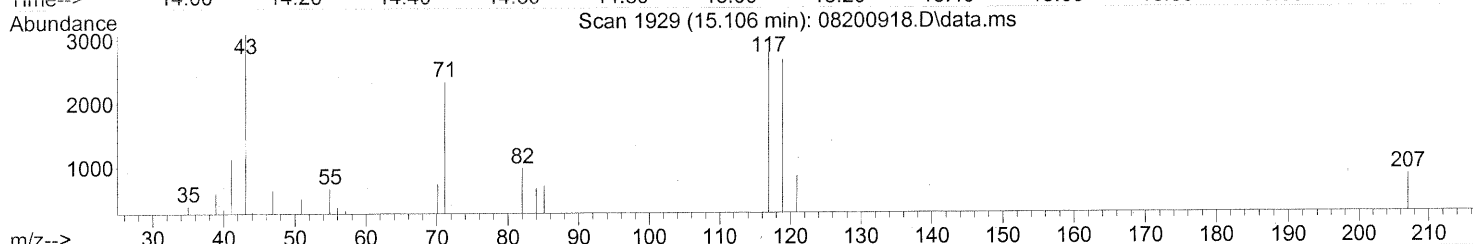
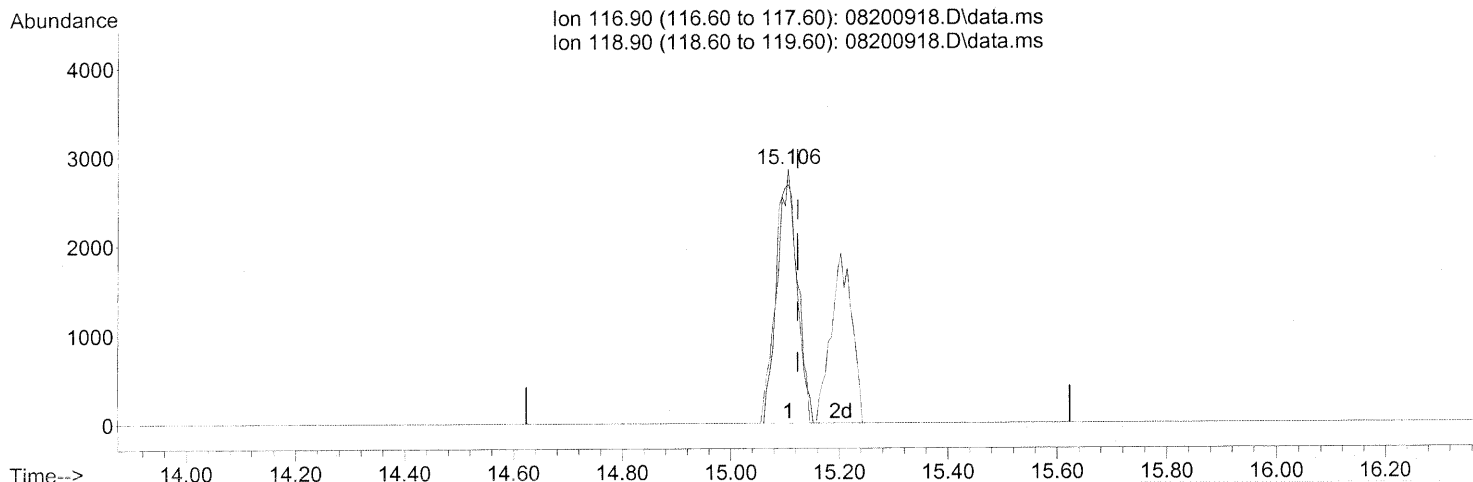
response 316950

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.44ng

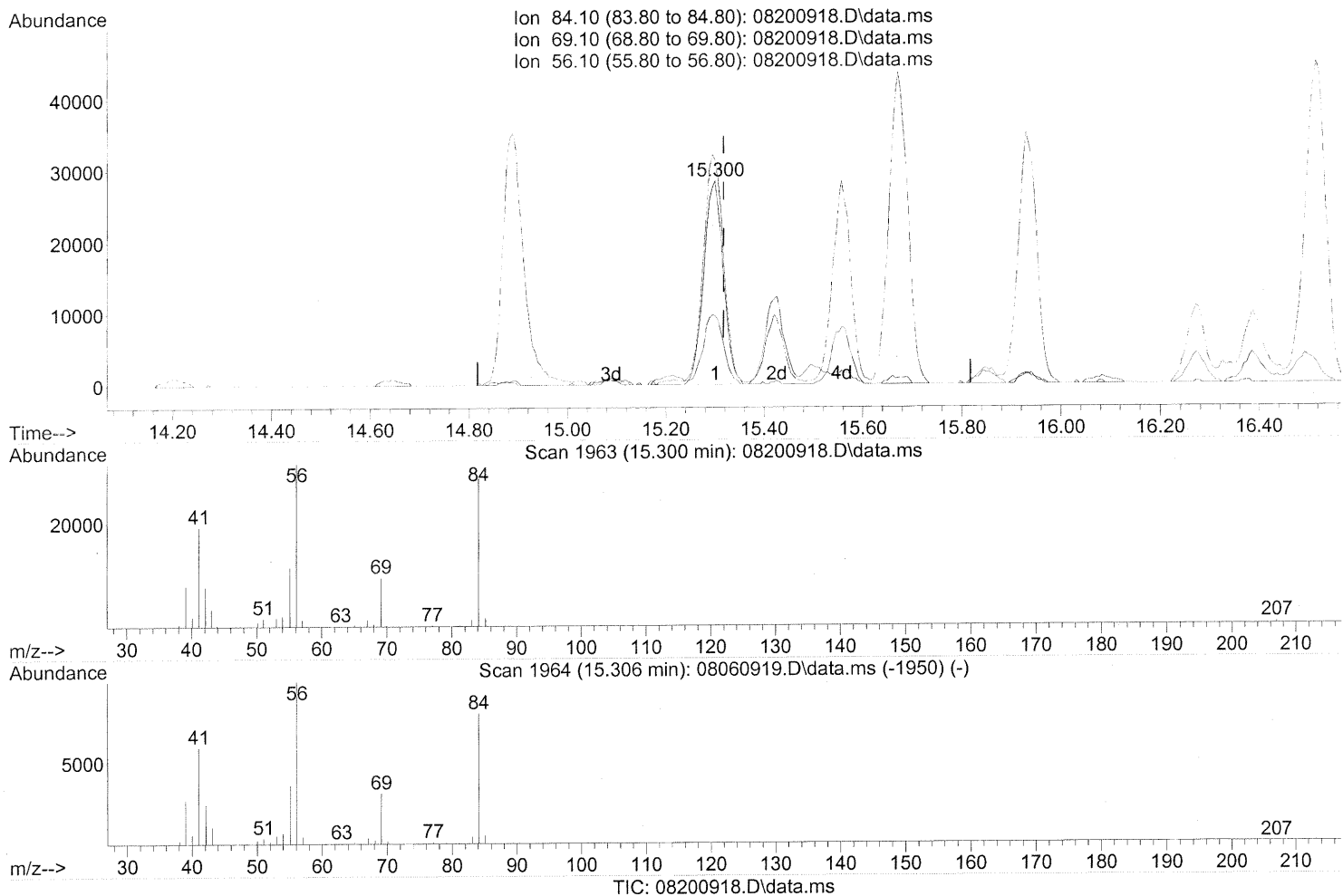
response 7382

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	103.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



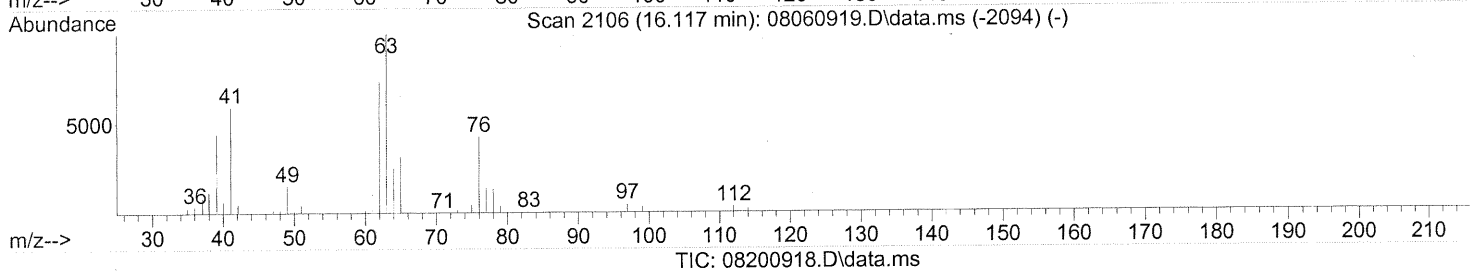
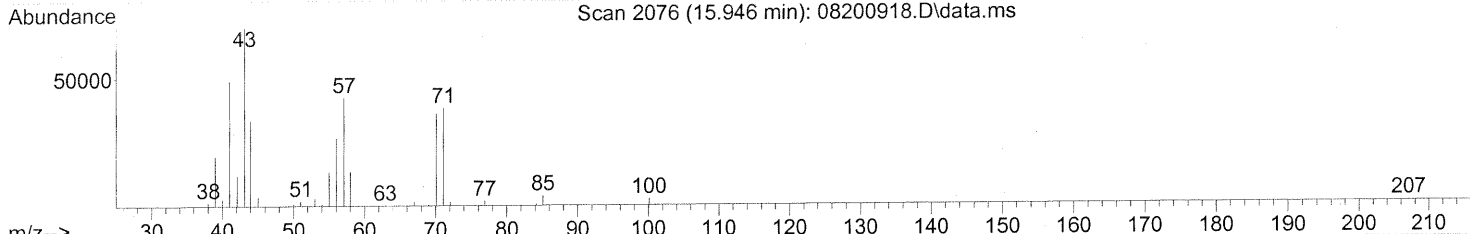
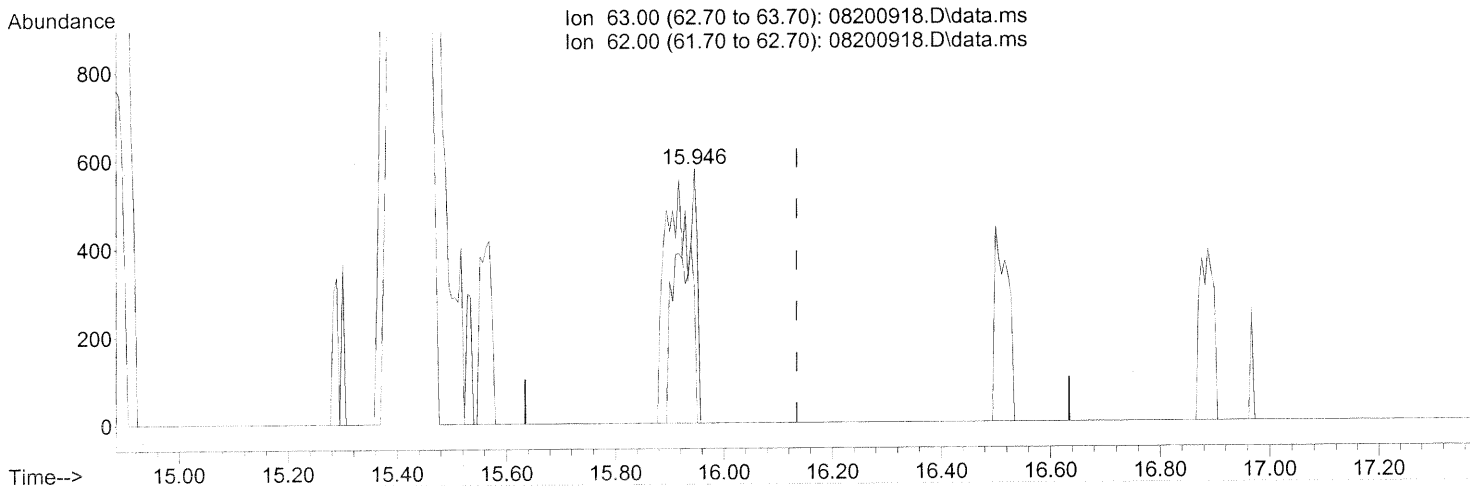
(43) Cyclohexane (T)
 15.300min (-0.017) 4.10ng
 response 78542

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	36.27
56.10	127.50	117.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

15.946min (-0.189) 0.10ng

response 1354

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

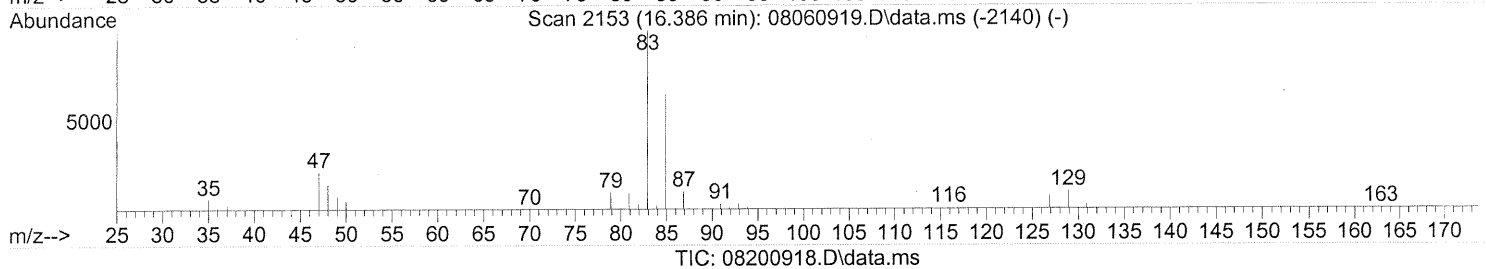
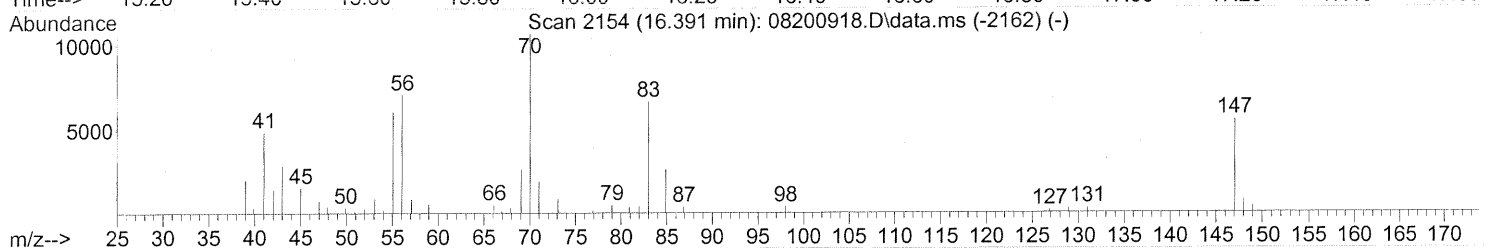
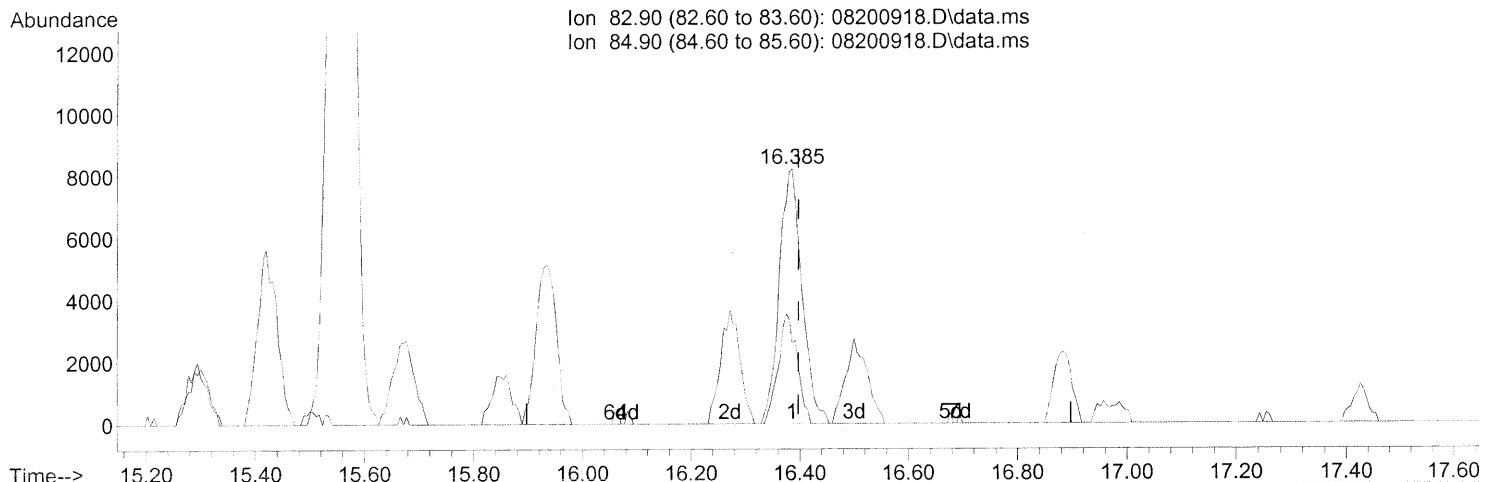
DA 8/22/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.385min (-0.012) 1.38ng

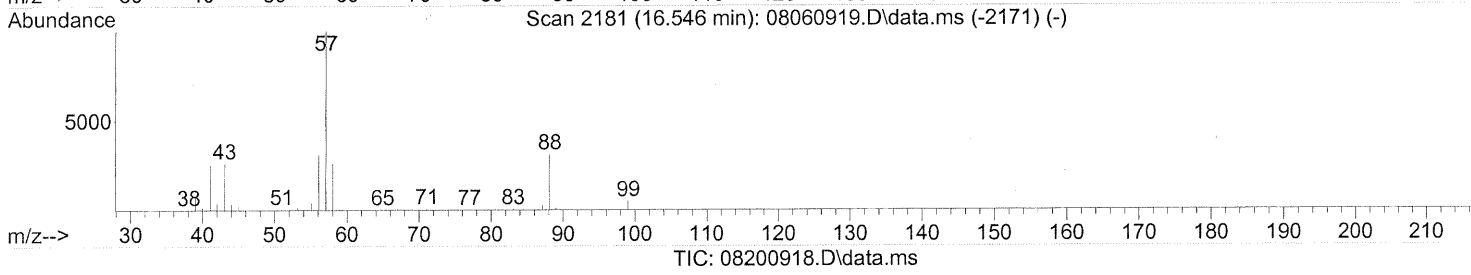
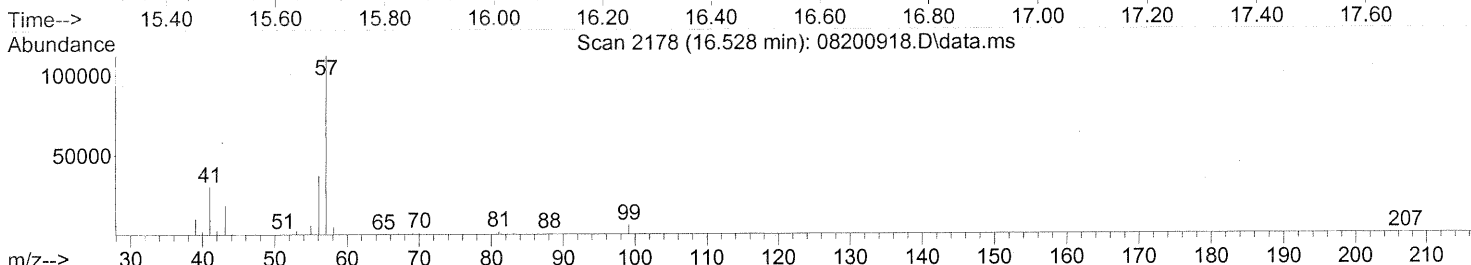
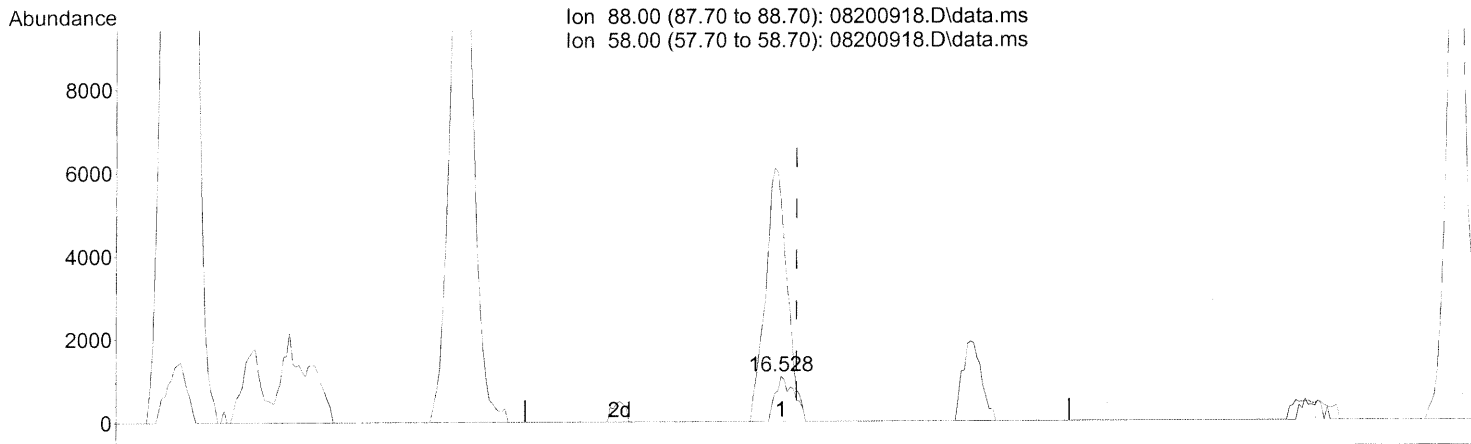
response 23865

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	35.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.528min (-0.029) 0.26ng
 response 2563

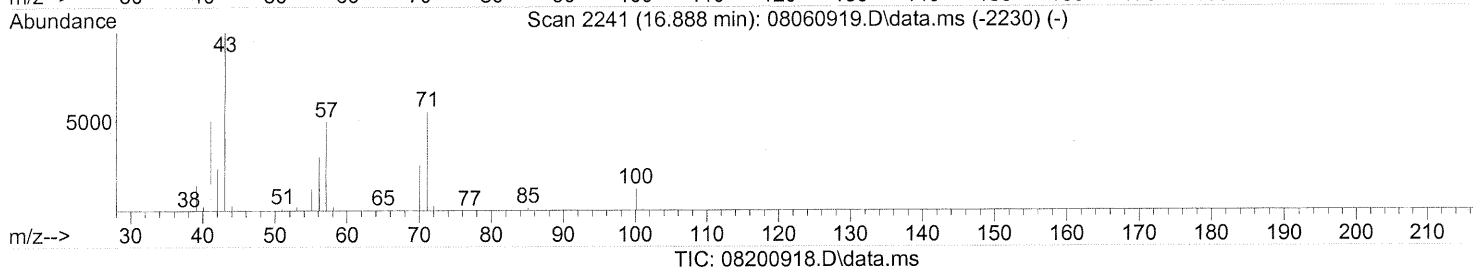
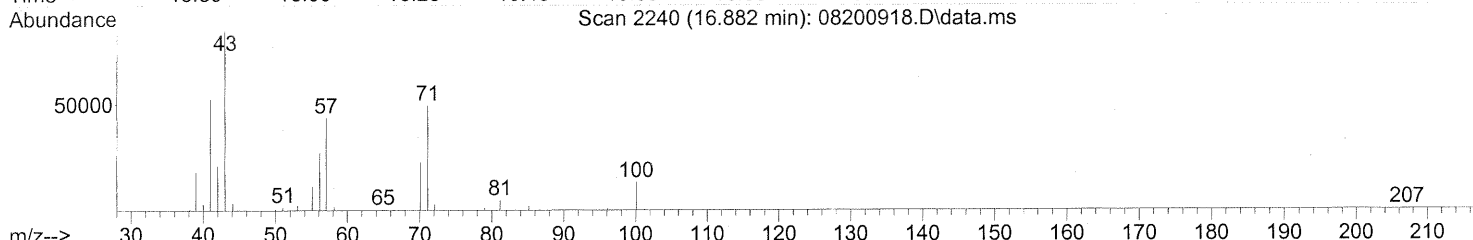
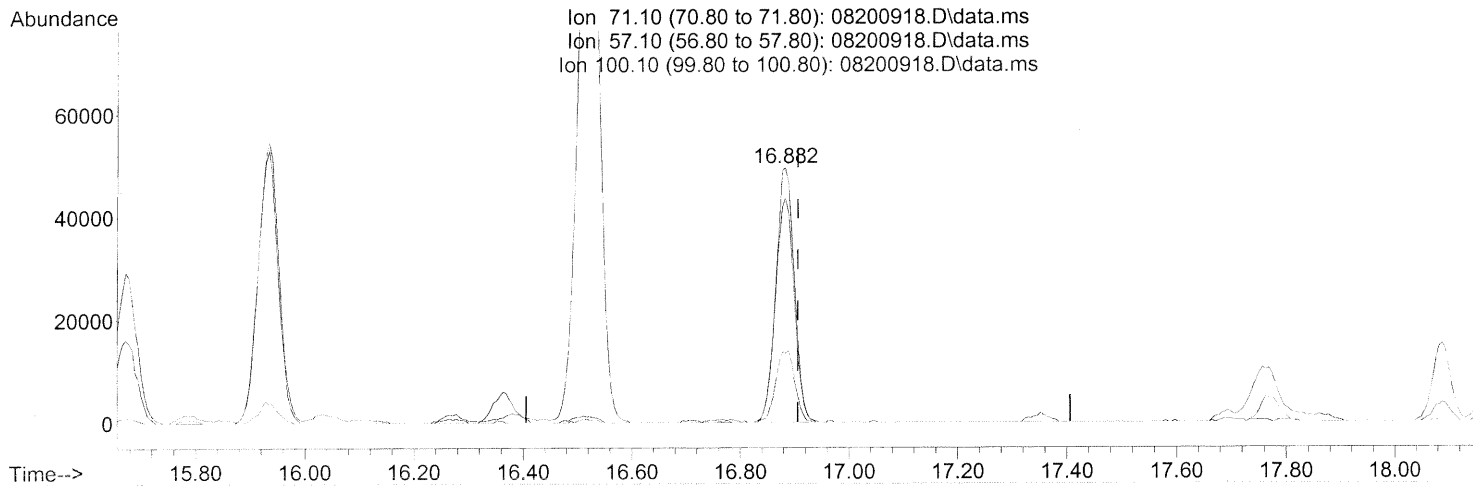
Ion	Exp%	Act%
88.00	100	100
58.00	74.80	657.55#
0.00	0.00	0.00
0.00	0.00	0.00

TP
WA 8/22/09 *— R 8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



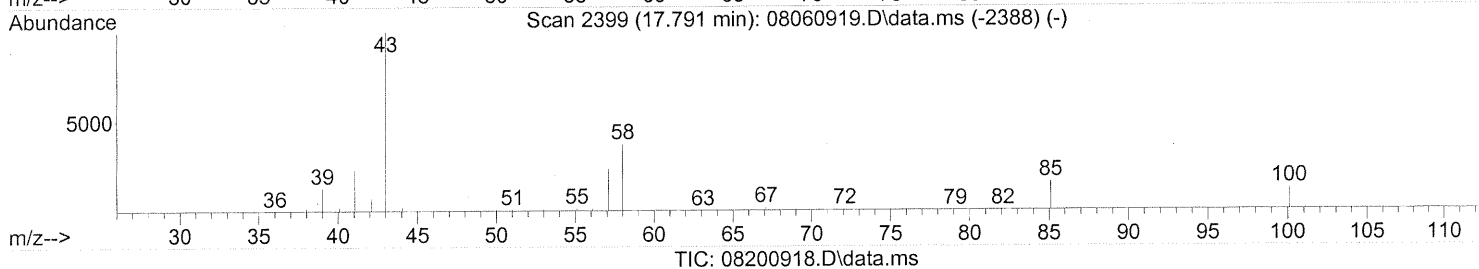
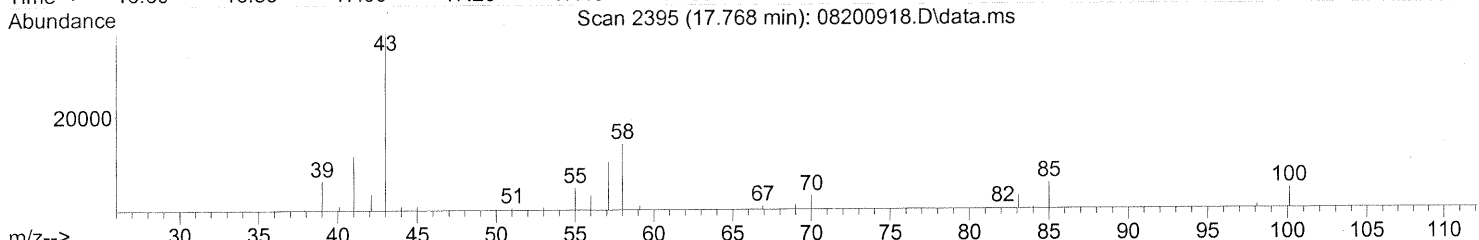
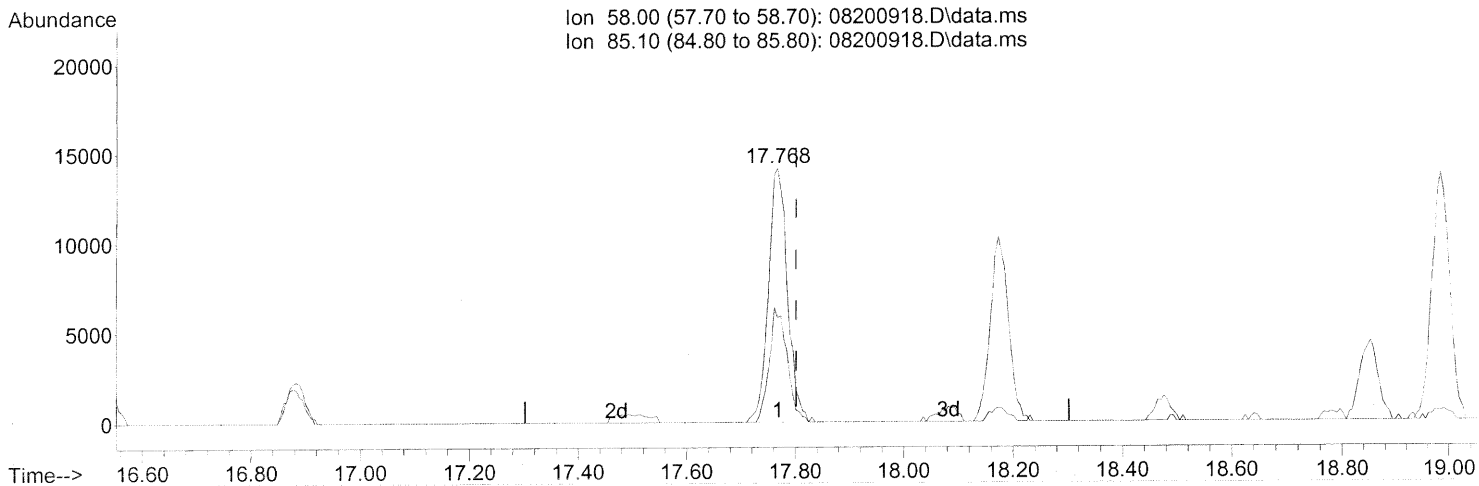
(51) n-Heptane (T)
 16.882min (-0.023) 8.34ng
 response 117037

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	88.87
100.10	26.40	29.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (-0.034) 2.77ng

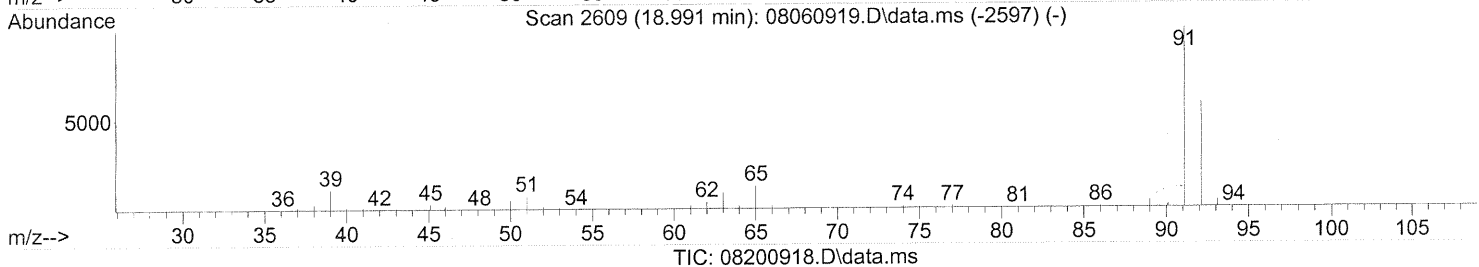
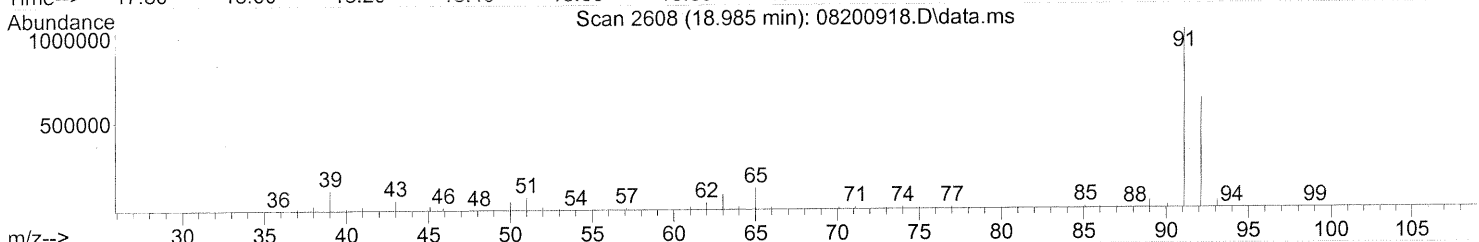
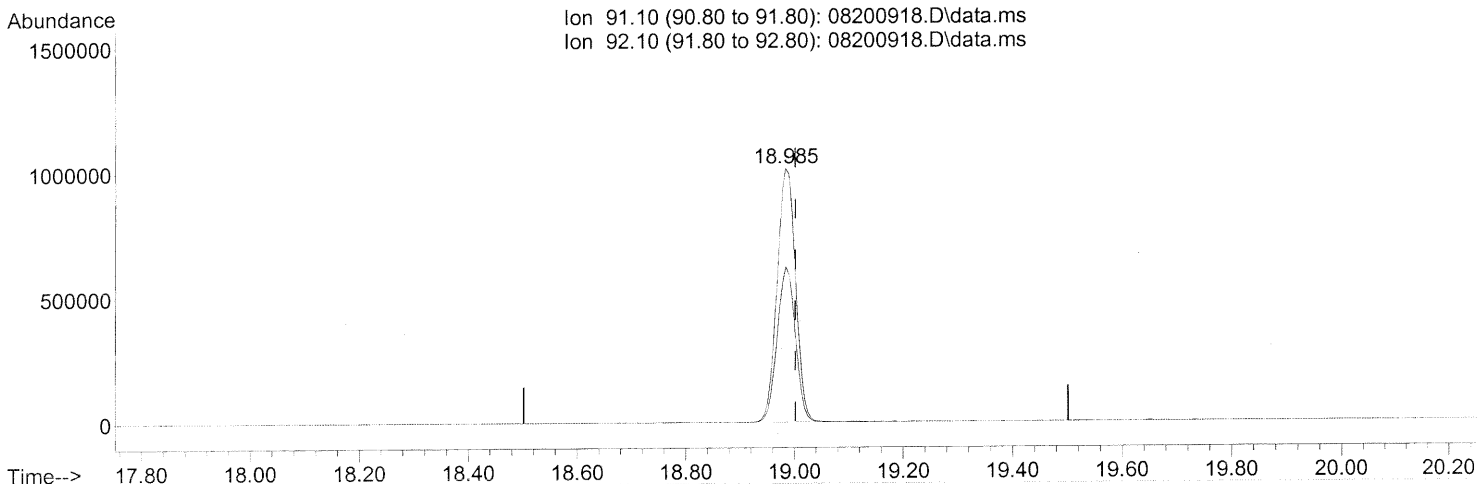
response 34847

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	42.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)
 18.985min (-0.017) 48.29ng

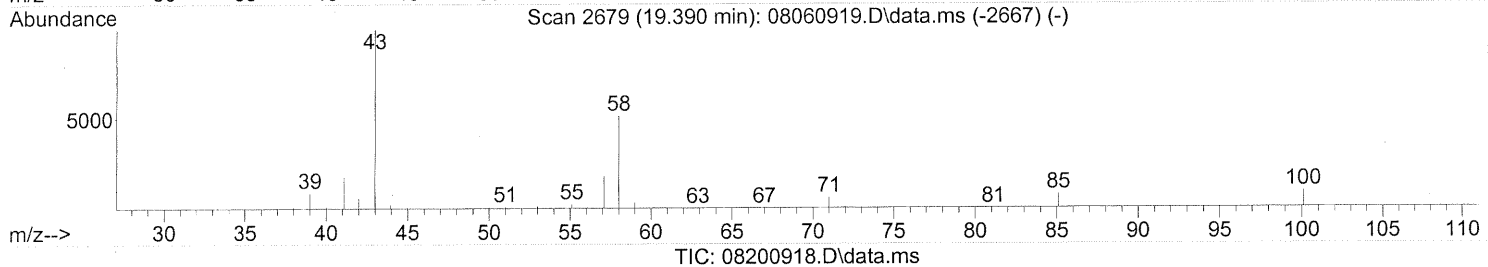
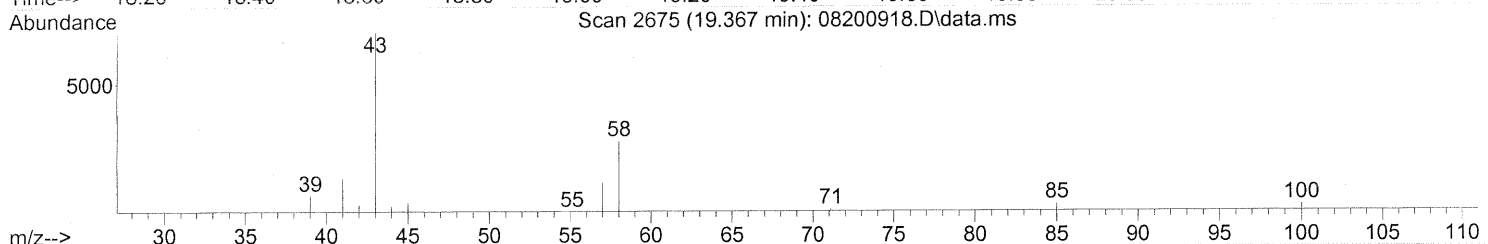
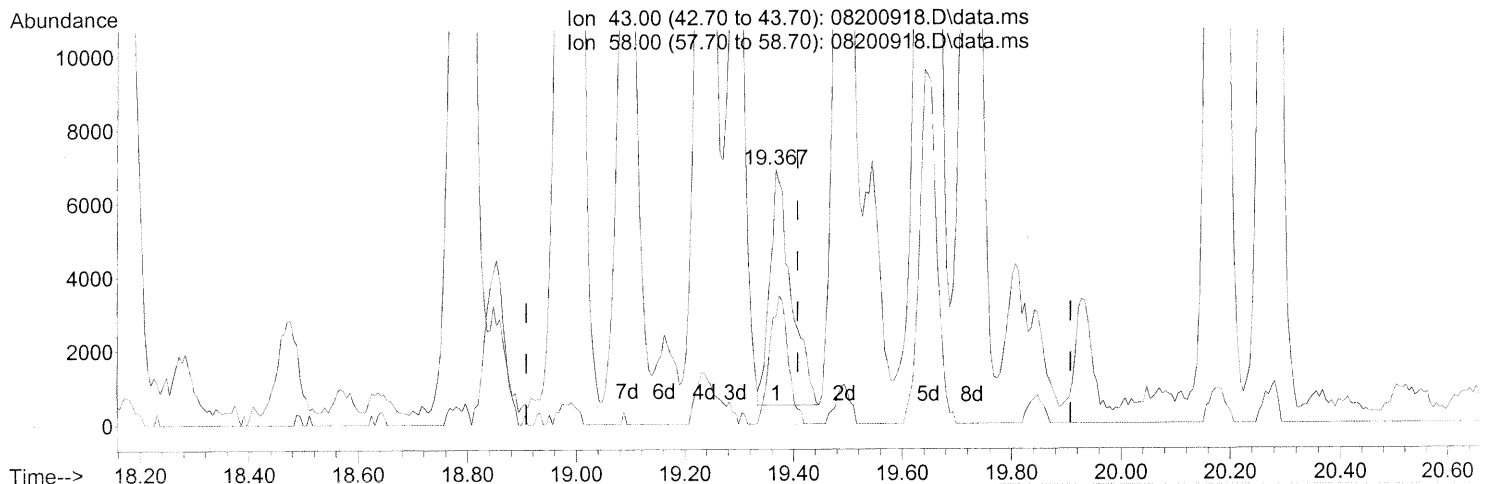
response 2396205

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	60.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



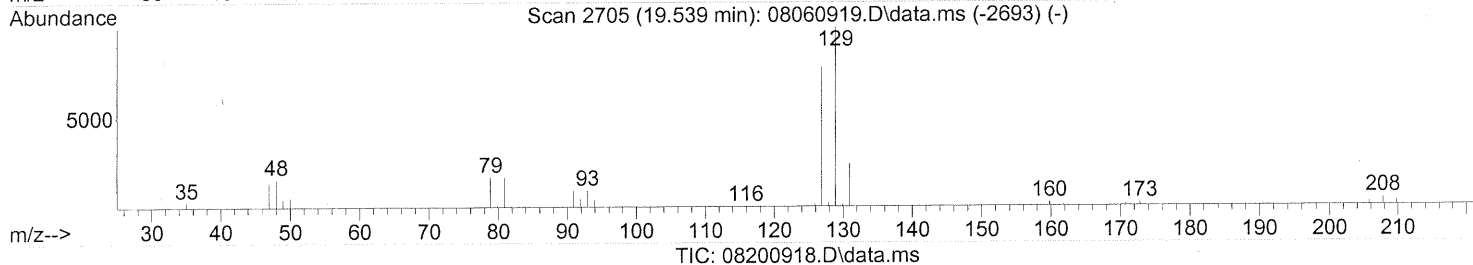
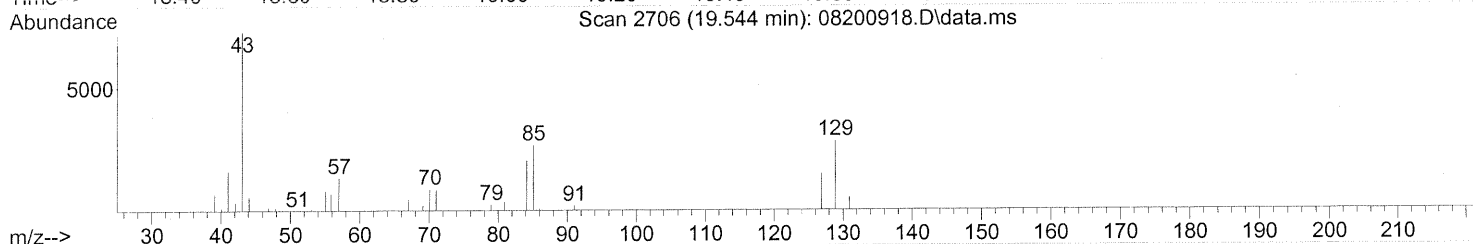
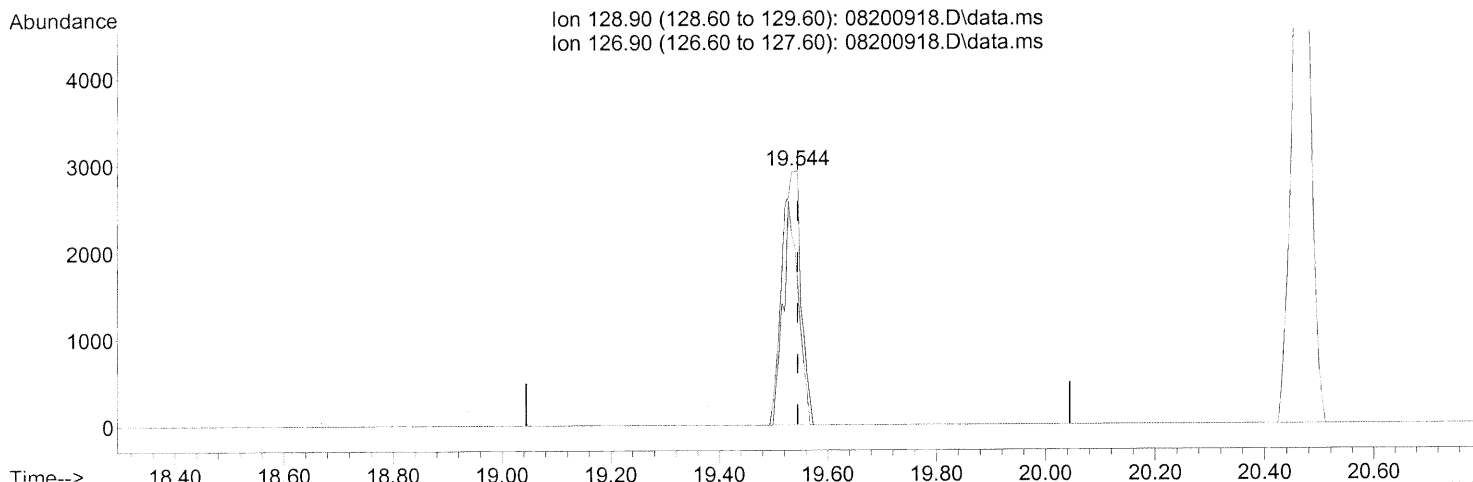
(59) 2-Hexanone (T)
 19.367min (-0.040) 0.53ng
 response 17406

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	46.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.544min (-0.000) 0.62ng

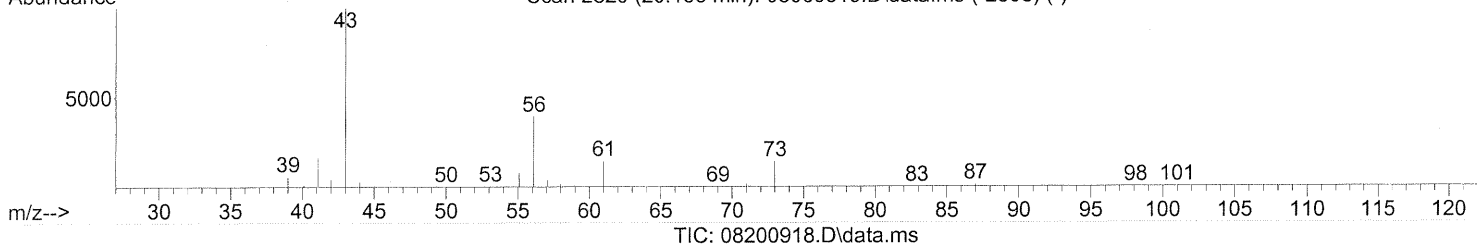
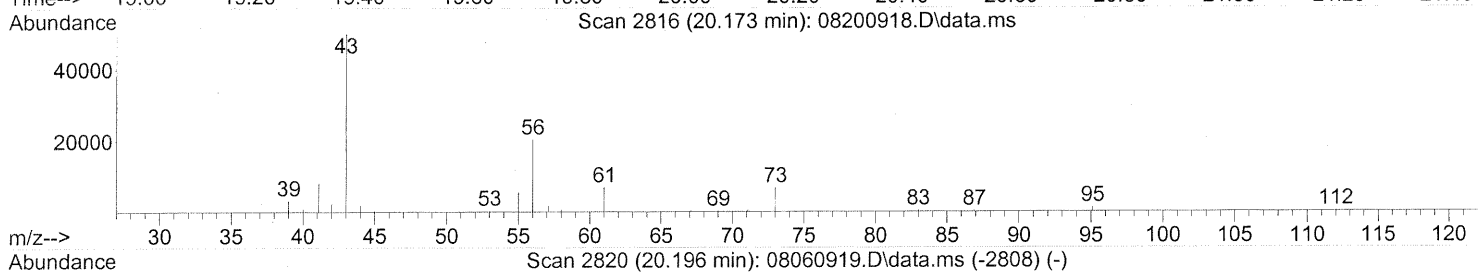
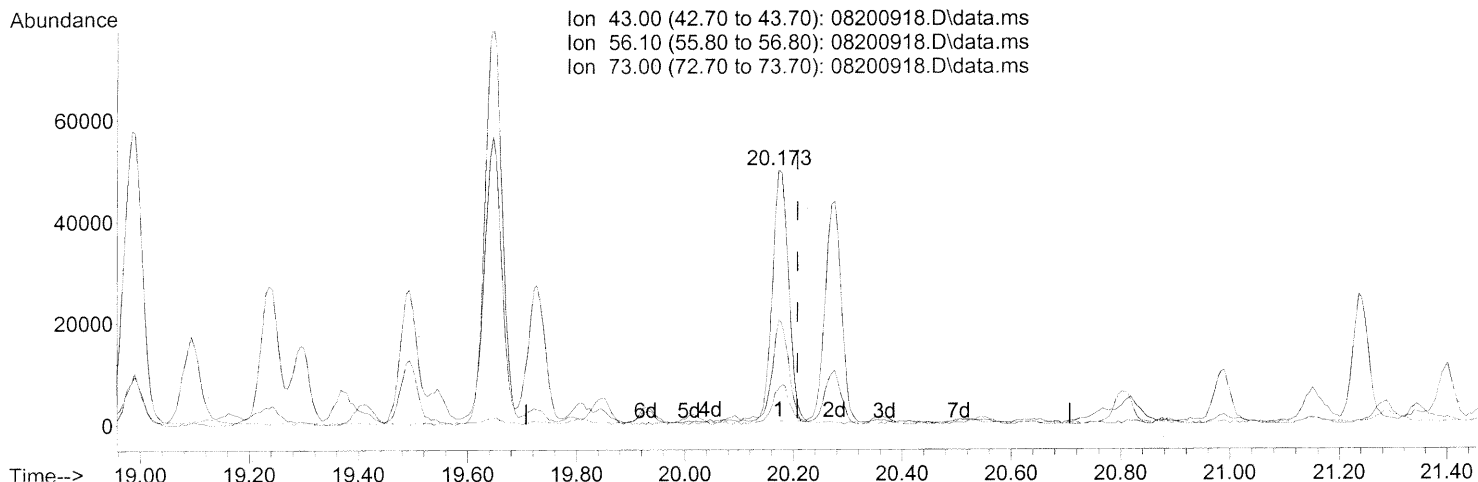
response 7234

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	69.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.173min (-0.034) 2.63ng

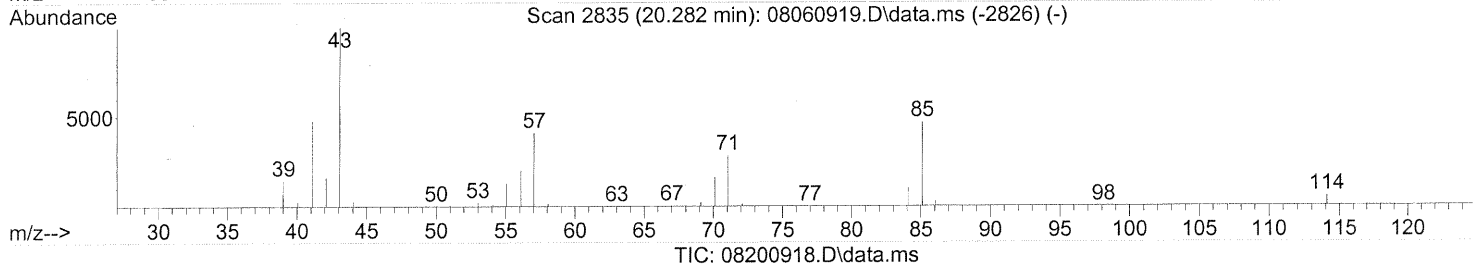
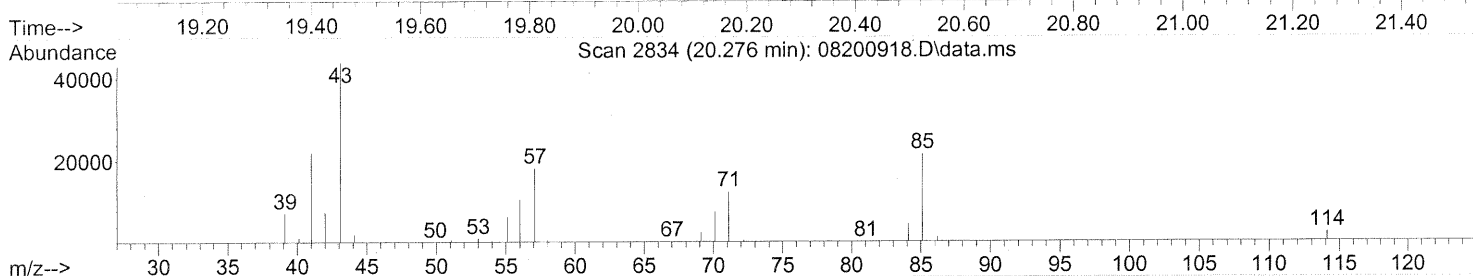
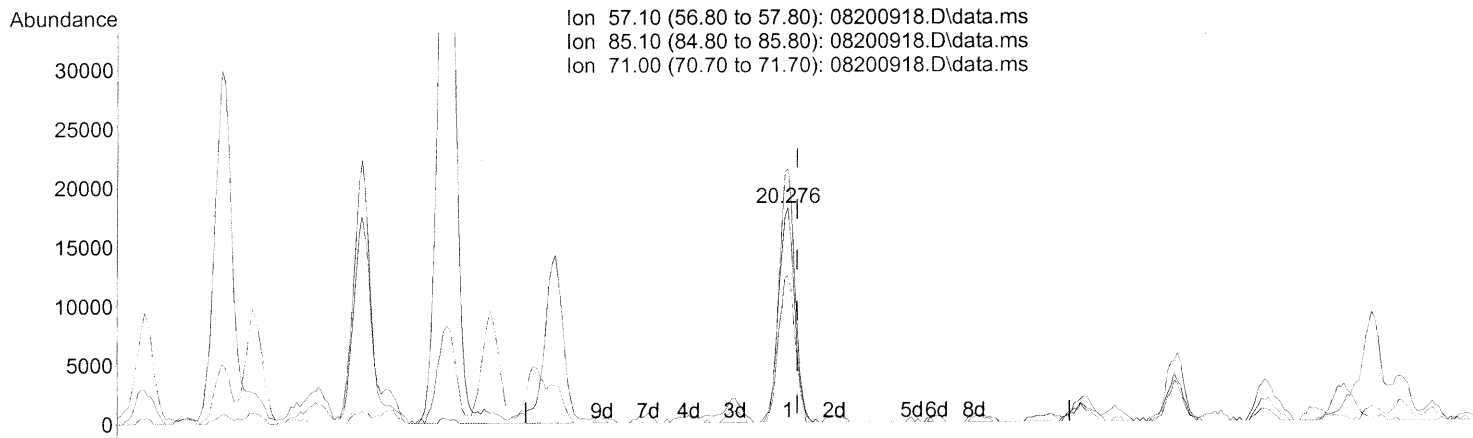
response 102373

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	42.29
73.00	14.80	17.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



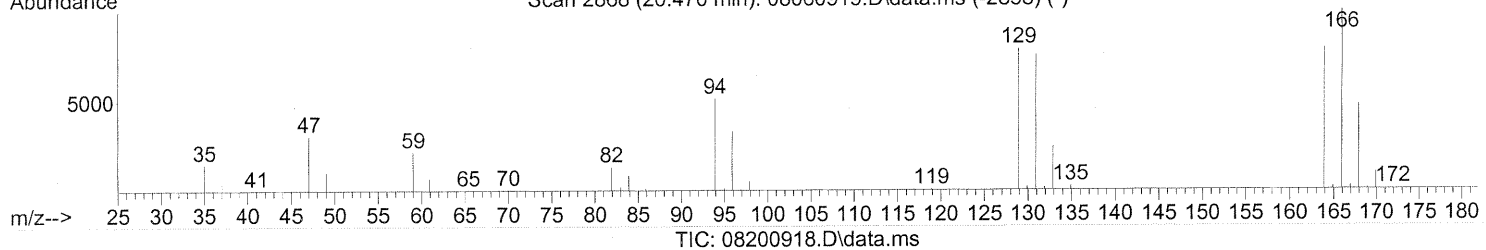
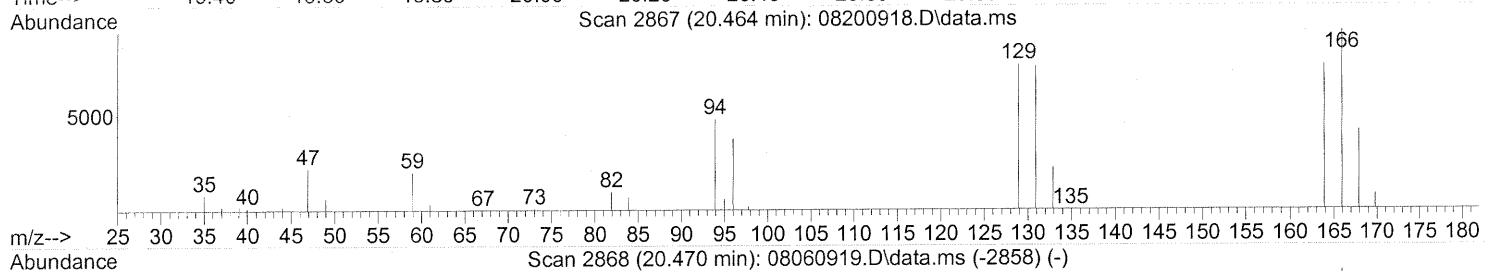
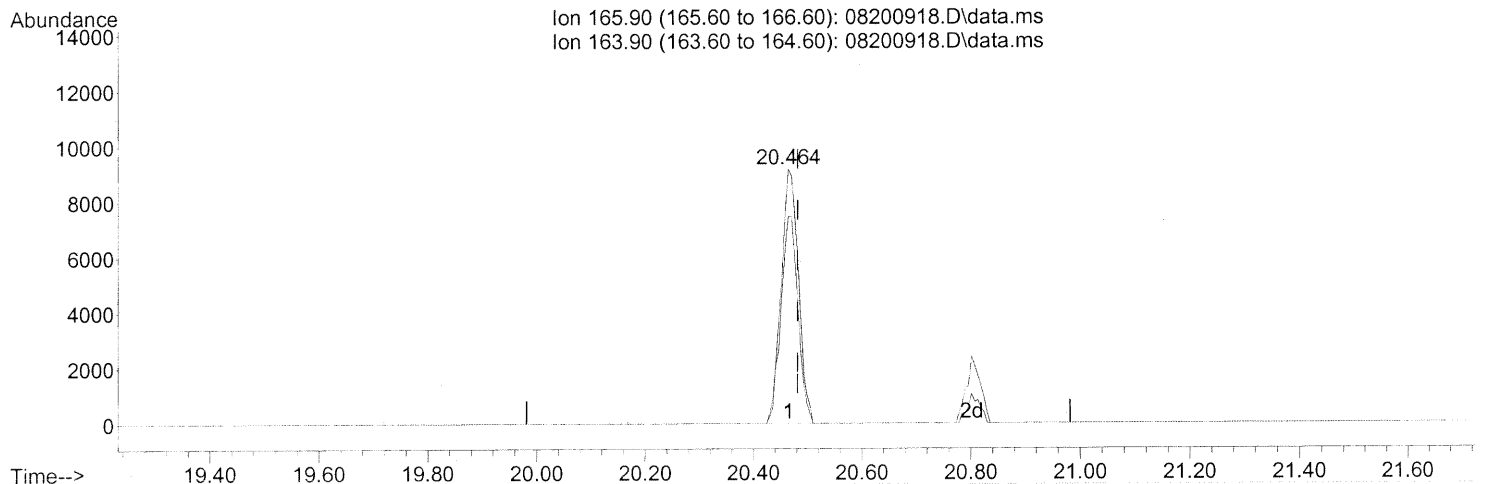
(63) n-Octane (T)
 20.276min (-0.017) 3.11ng
 response 37347

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	117.50
71.00	68.10	70.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 1.78ng

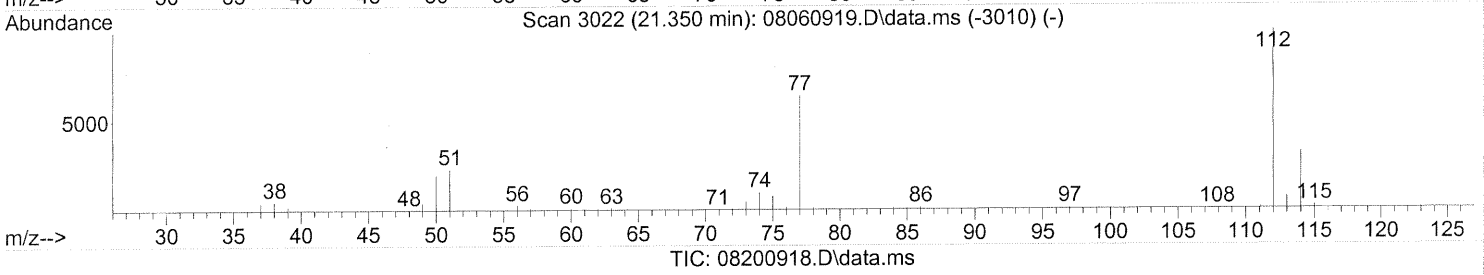
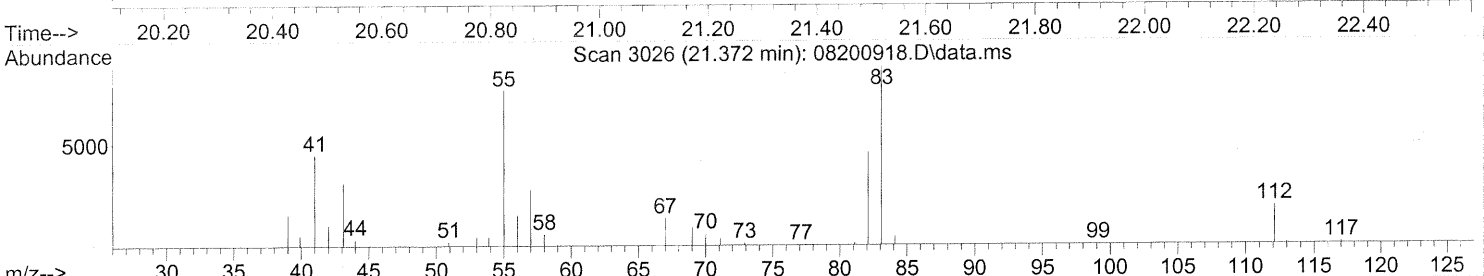
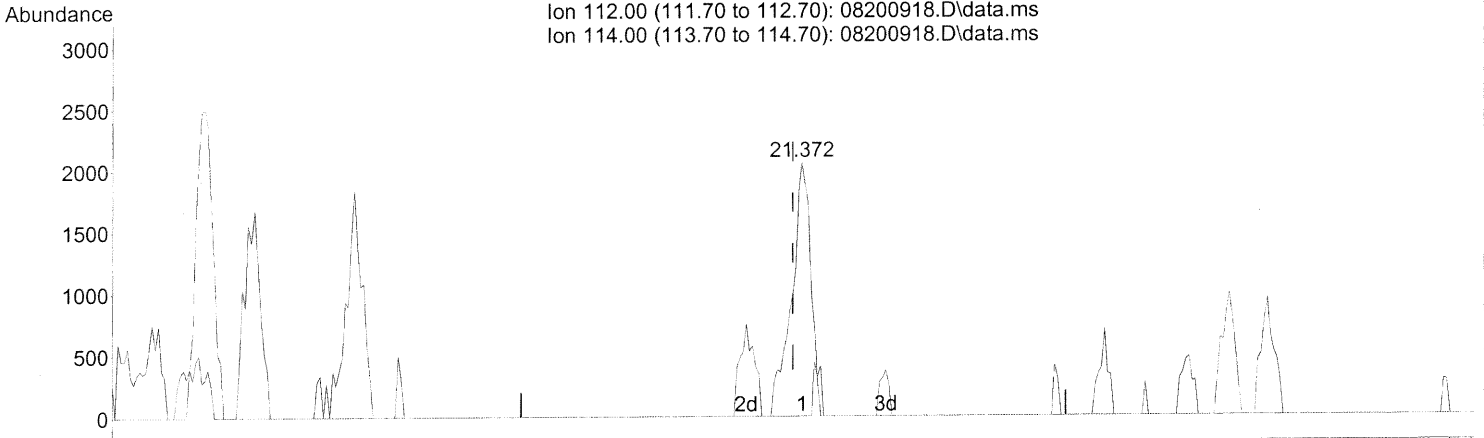
response 20425

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.372min (+0.017) 0.16ng
 response 5063

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

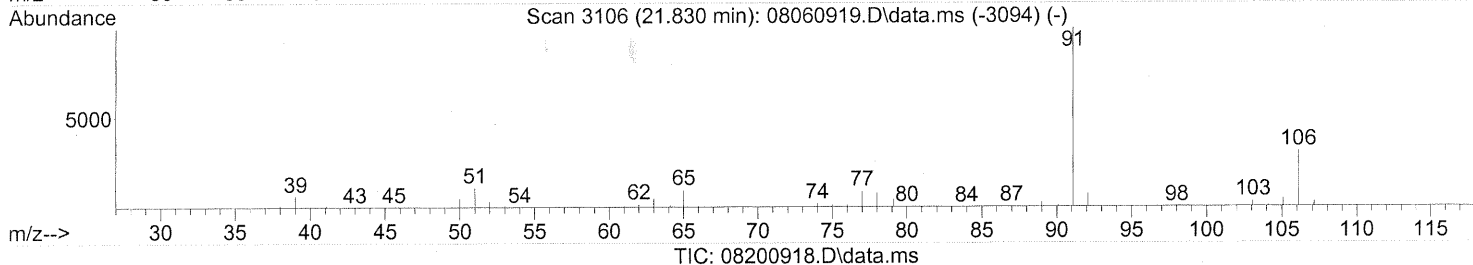
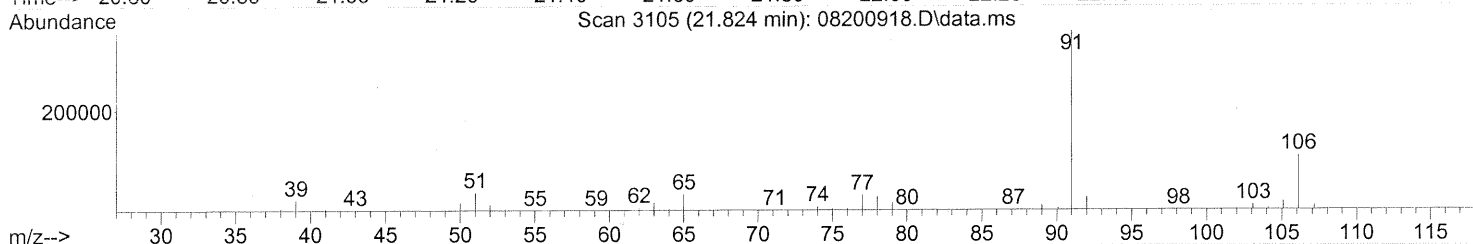
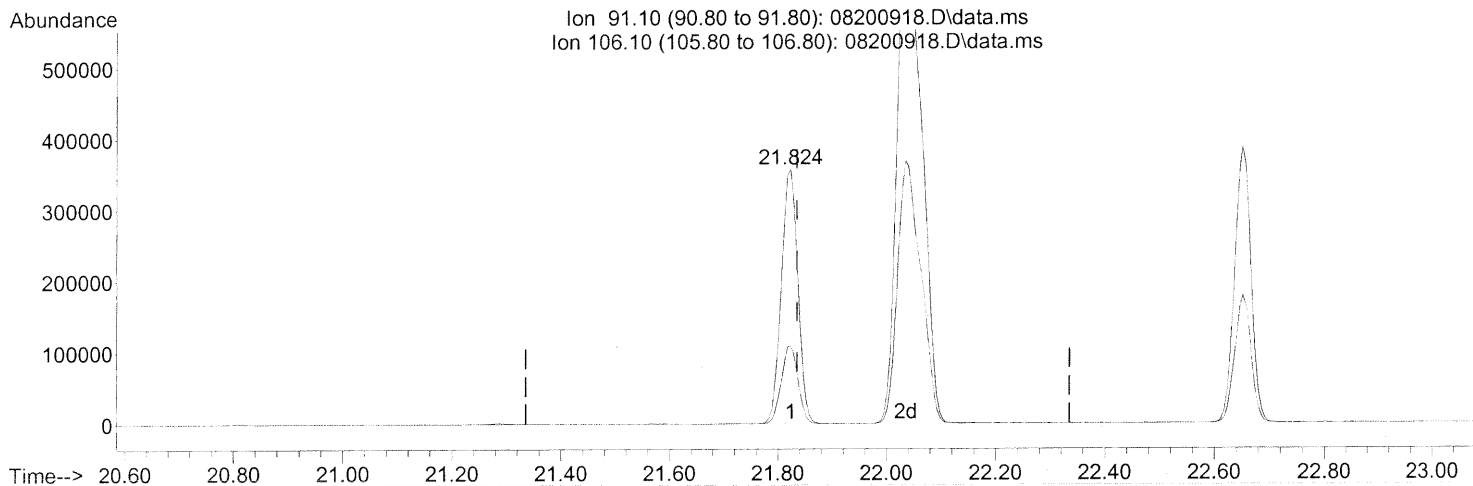
WA 8/22/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



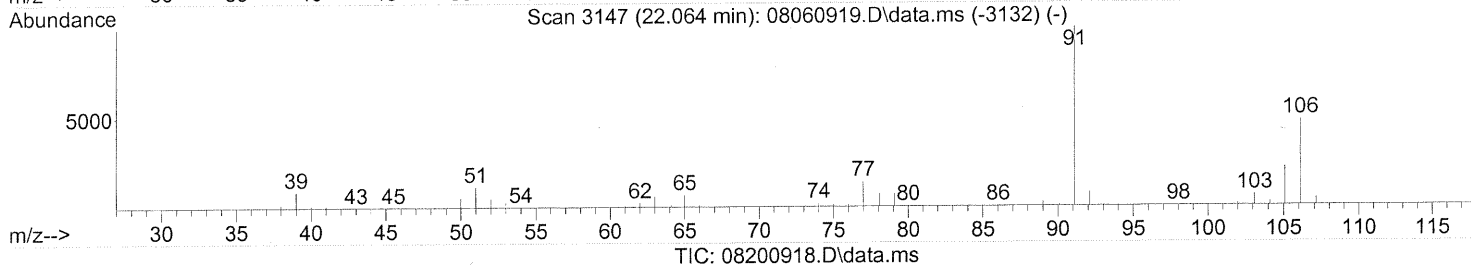
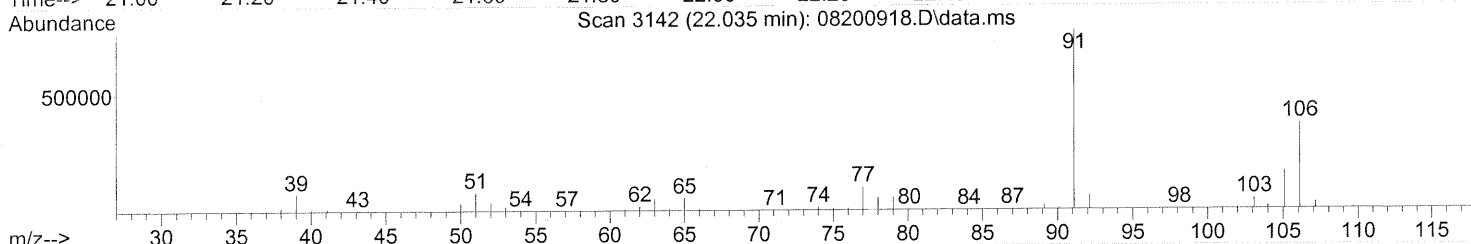
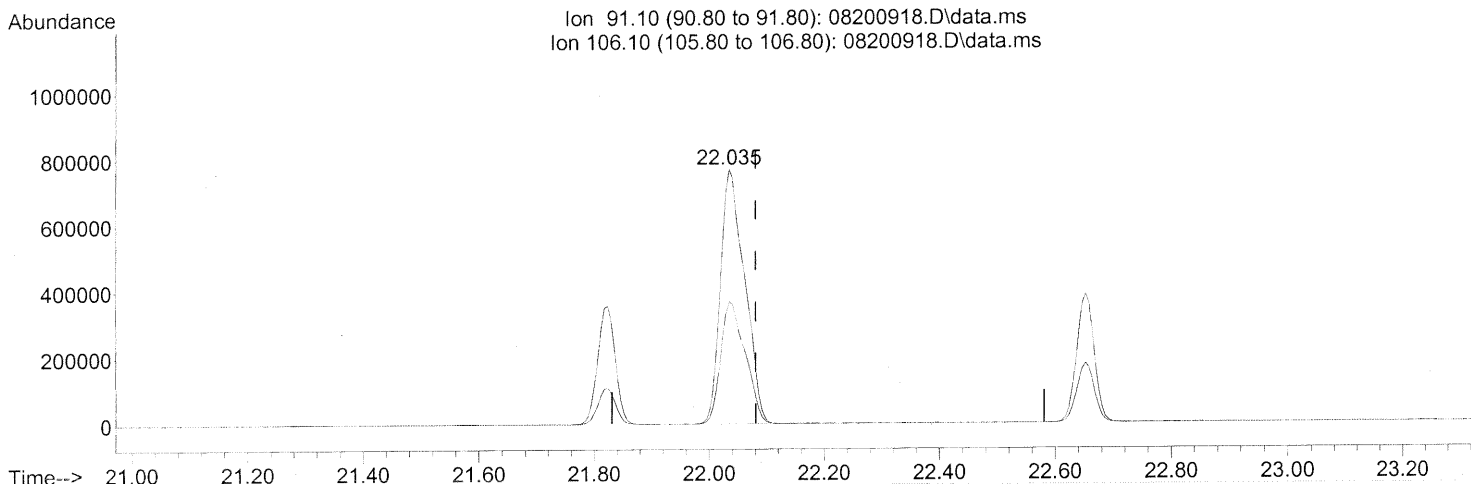
(66) Ethylbenzene (T)
 21.824min (-0.012) 13.33ng
 response 756165

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



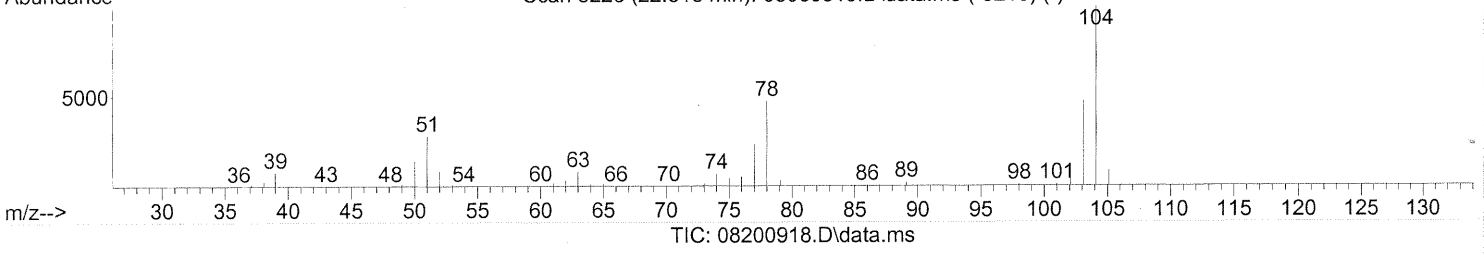
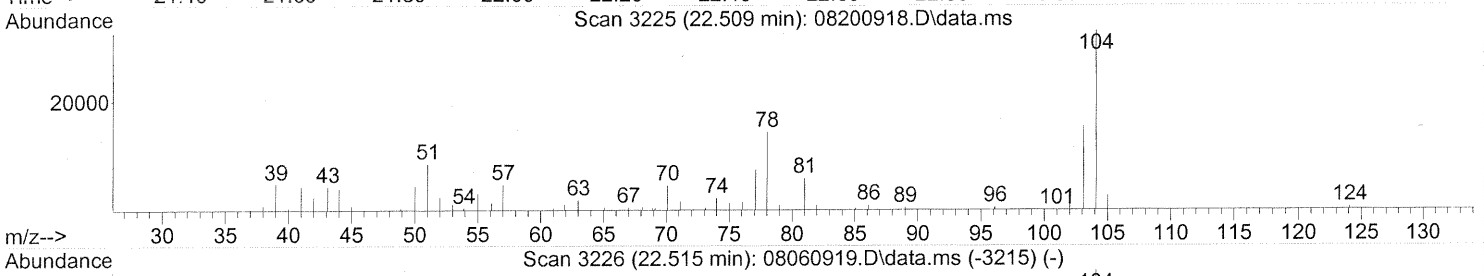
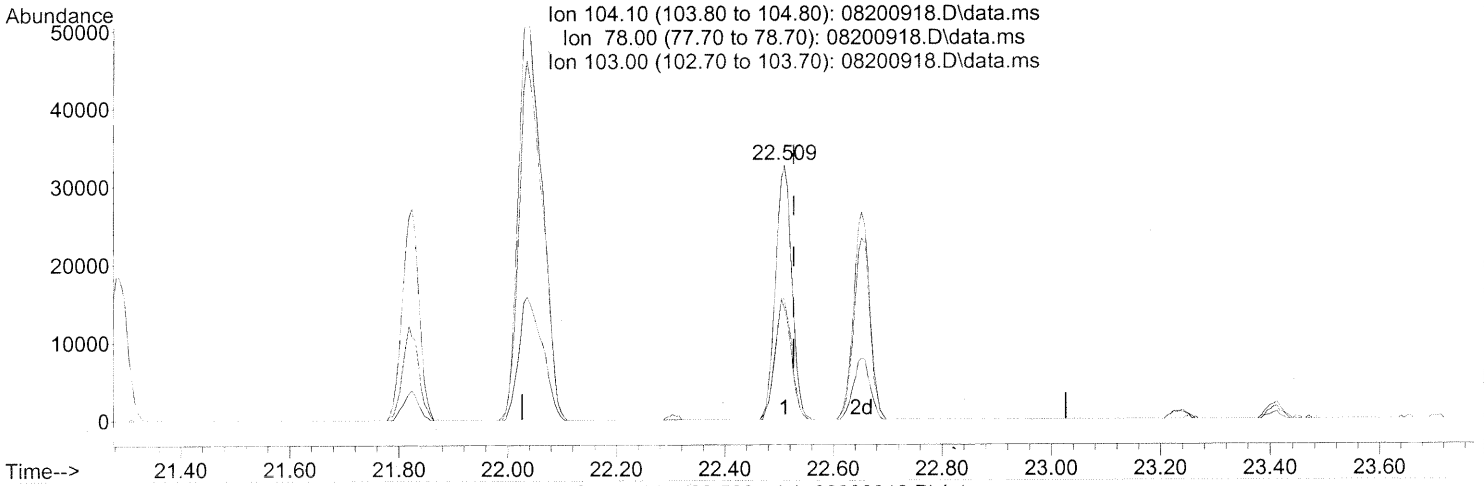
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 49.05ng
 response 2250590

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 2.07ng

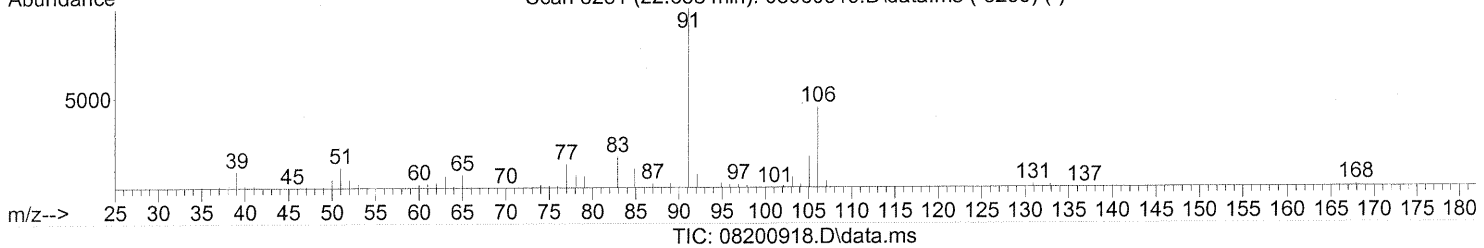
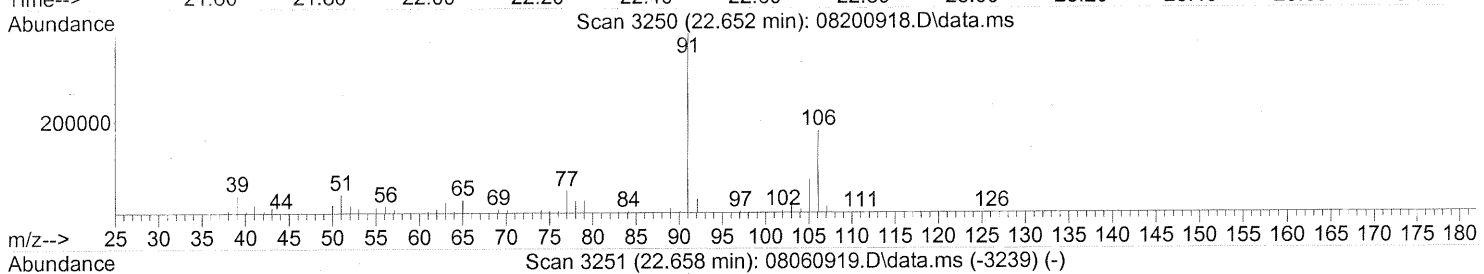
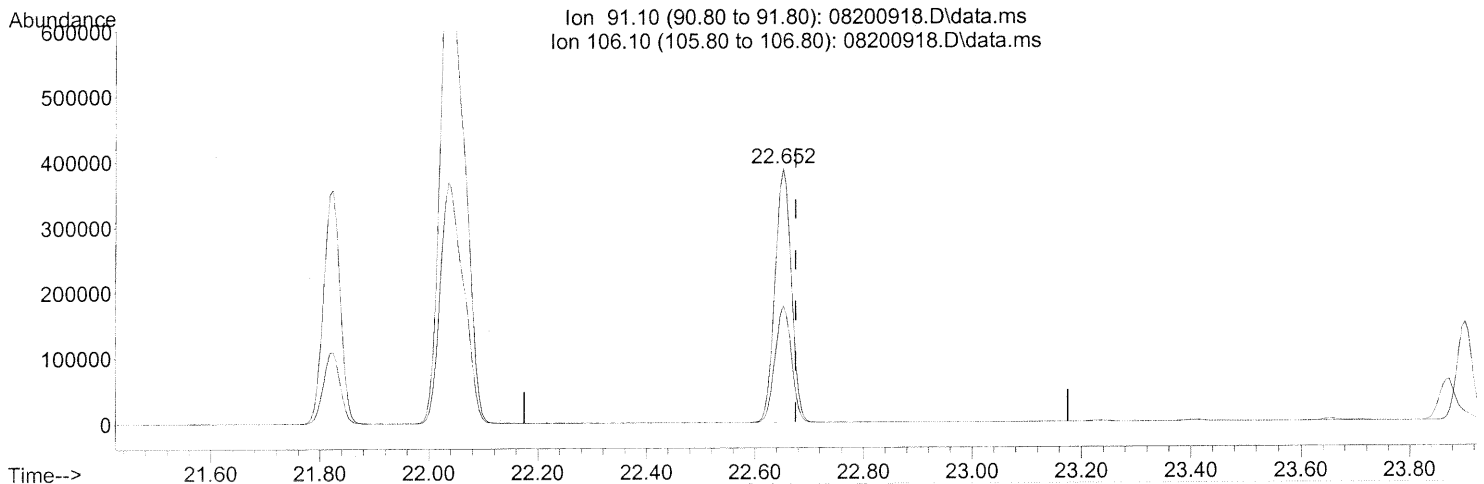
response 68532

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.01
103.00	46.20	48.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 17.66ng

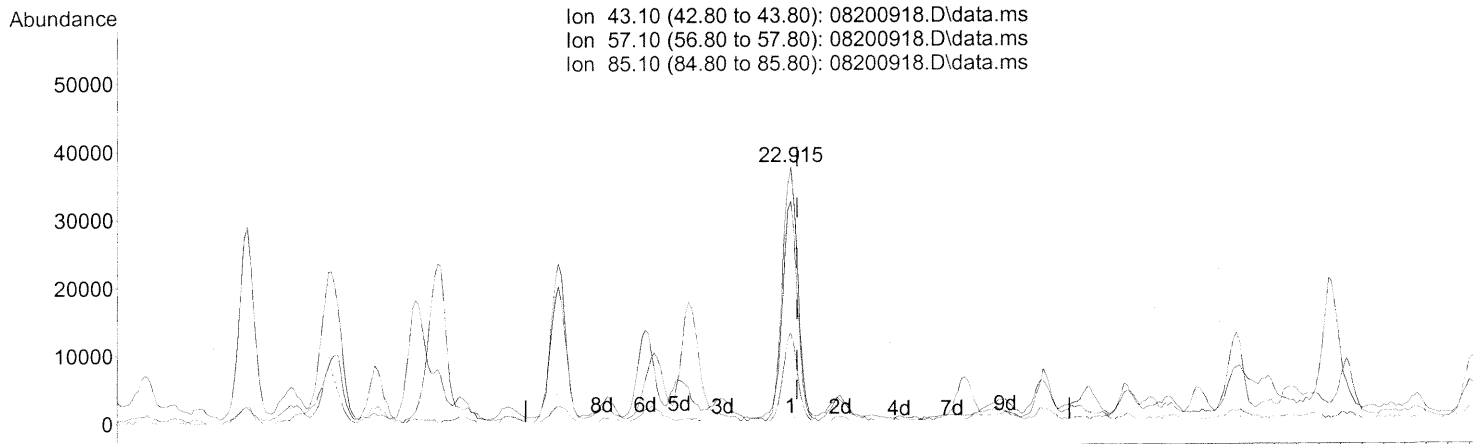
response 812472

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.93
0.00	0.00	0.00
0.00	0.00	0.00

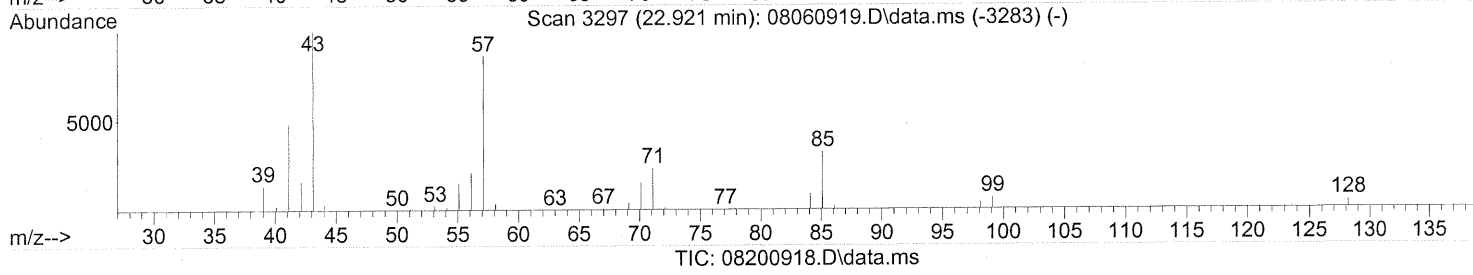
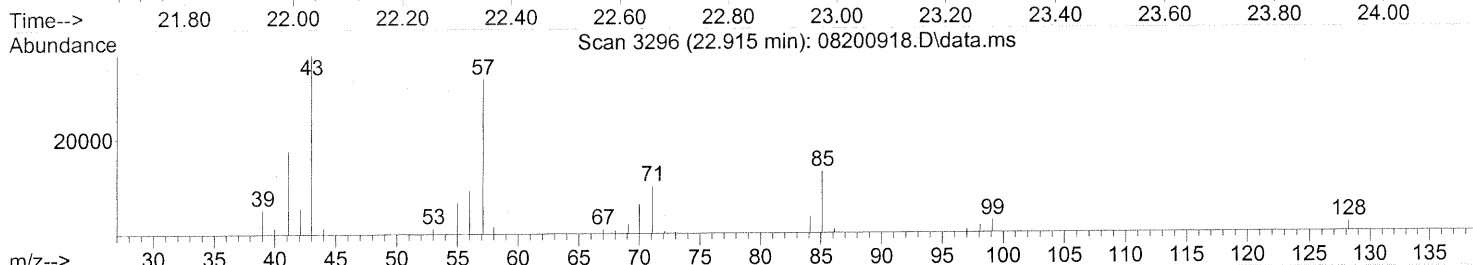
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 43.10 (42.80 to 43.80): 08200918.D\data.ms
 Ion 57.10 (56.80 to 57.80): 08200918.D\data.ms
 Ion 85.10 (84.80 to 85.80): 08200918.D\data.ms



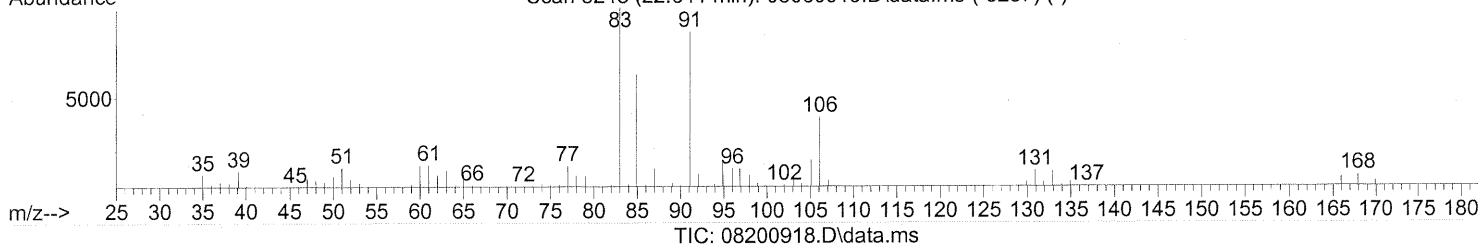
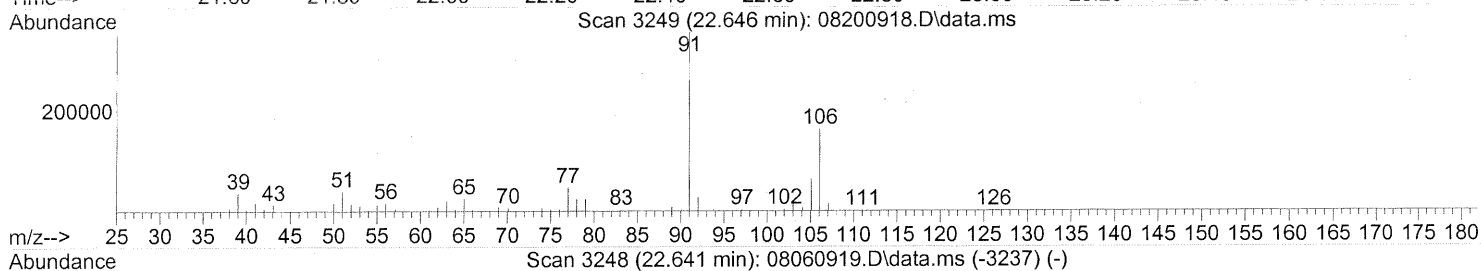
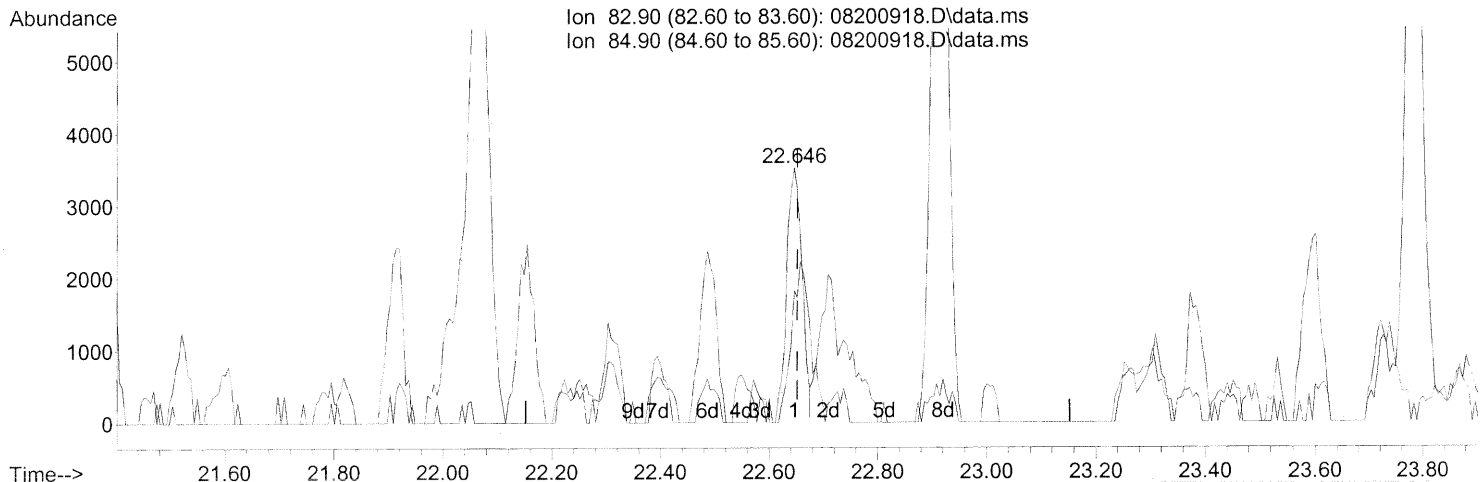
(71) n-Nonane (T)
 22.915min (-0.012) 2.41ng
 response 73681

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	84.45
85.10	30.40	32.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.646min (-0.006) 0.34ng

response 6948

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	77.50
0.00	0.00	0.00
0.00	0.00	0.00

TP

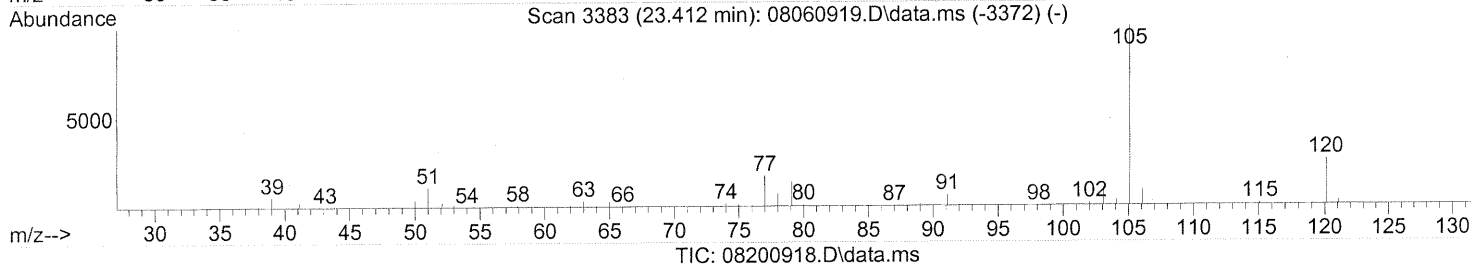
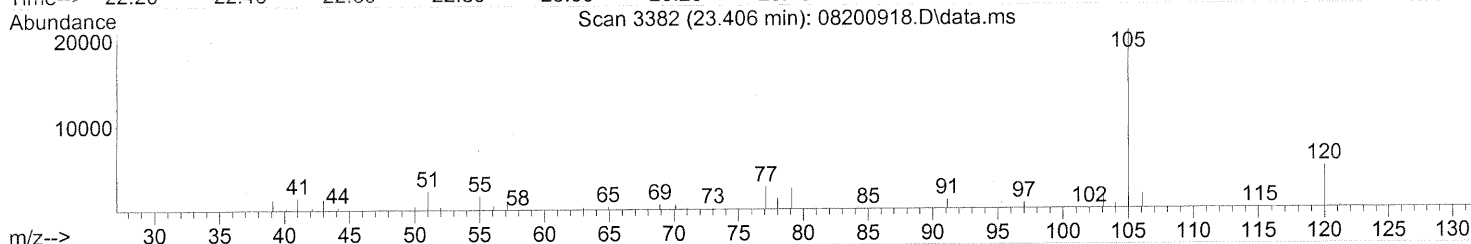
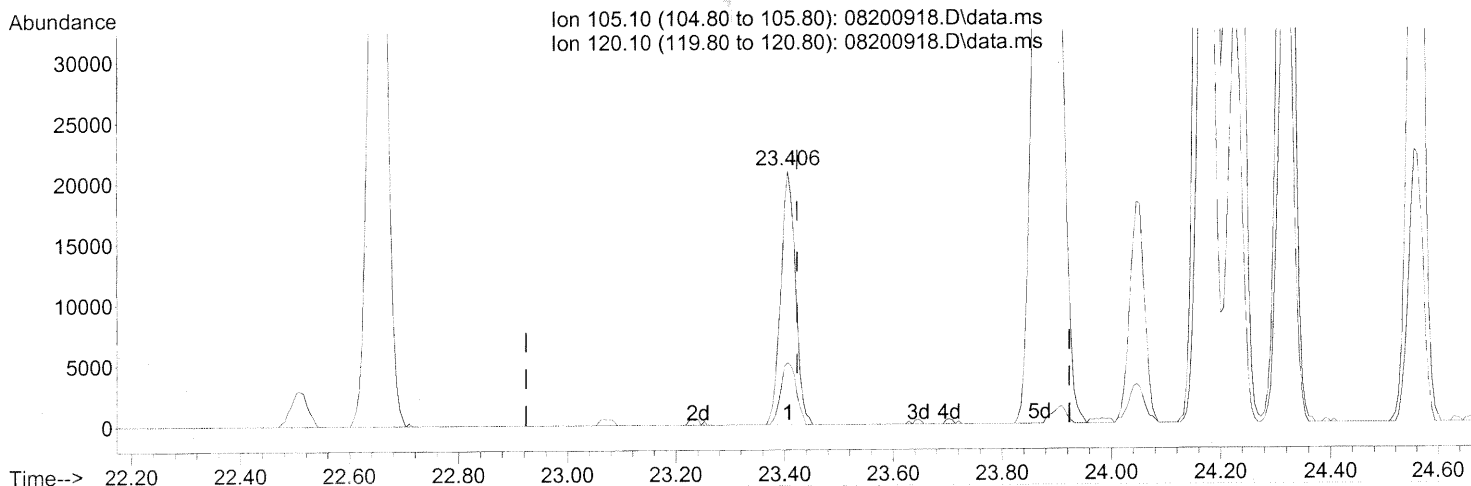
WA 8/22/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(74) Cumene (T)

23.406min (-0.017) 0.68ng

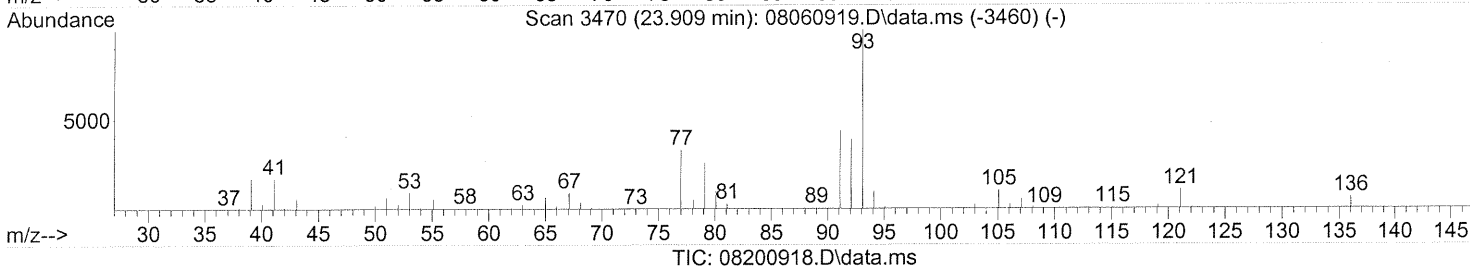
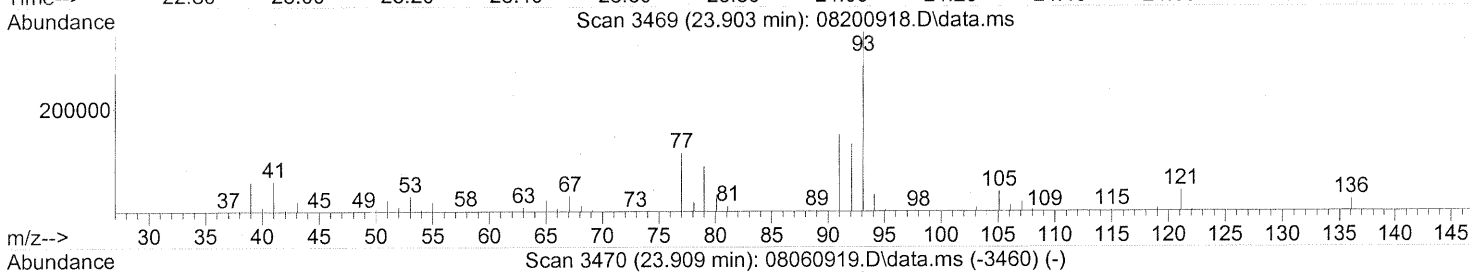
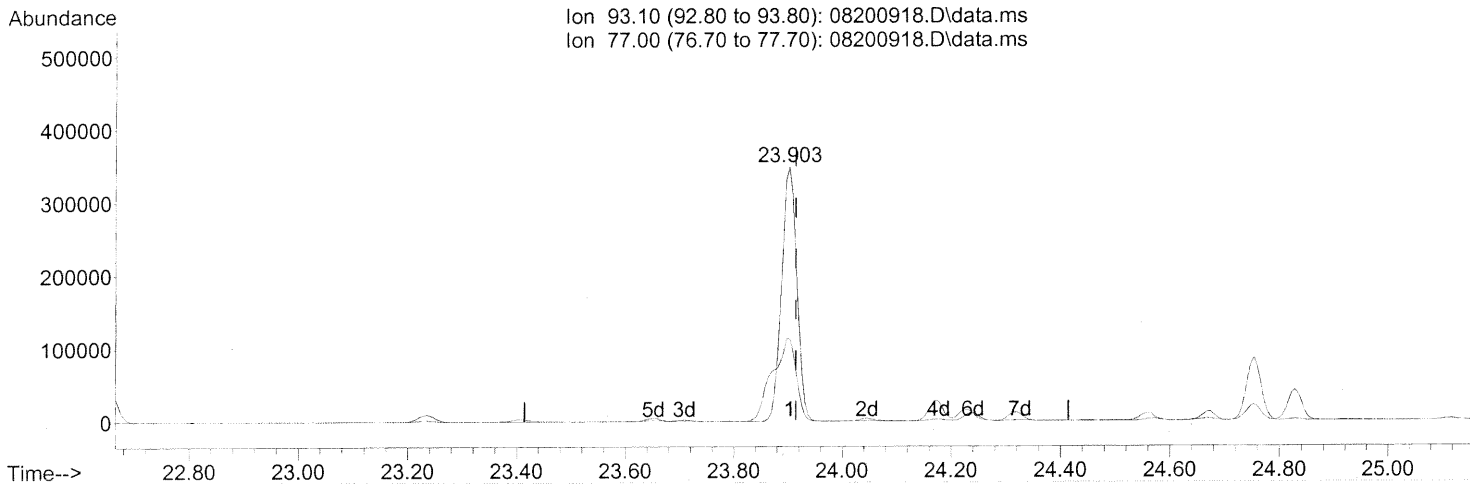
response 39319

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	25.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



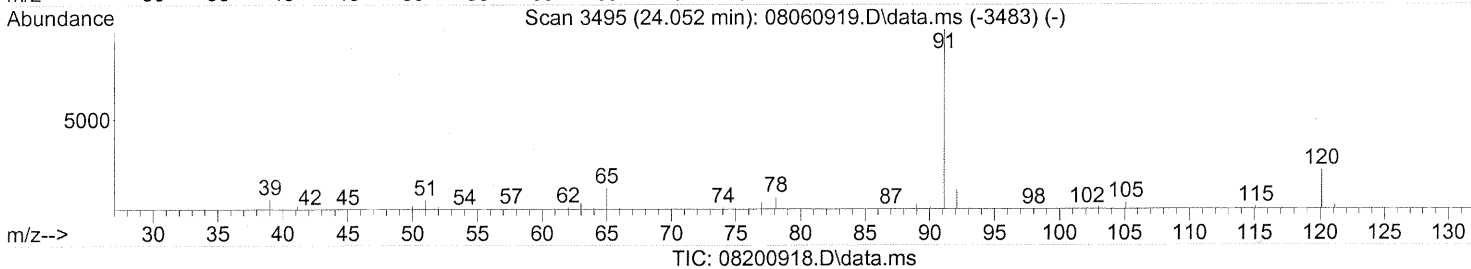
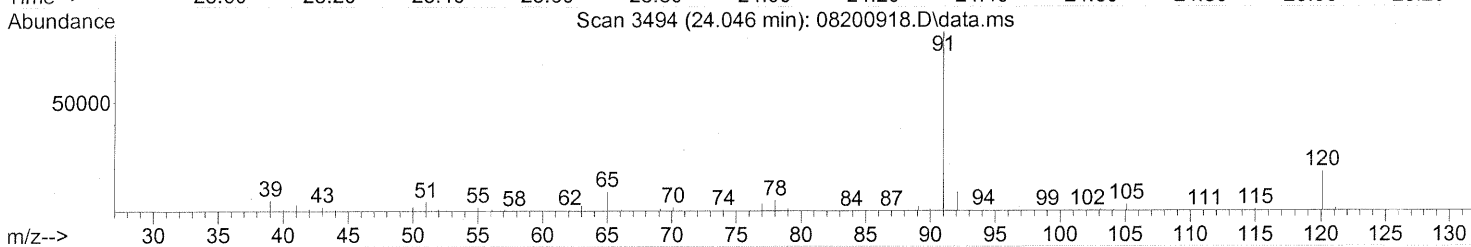
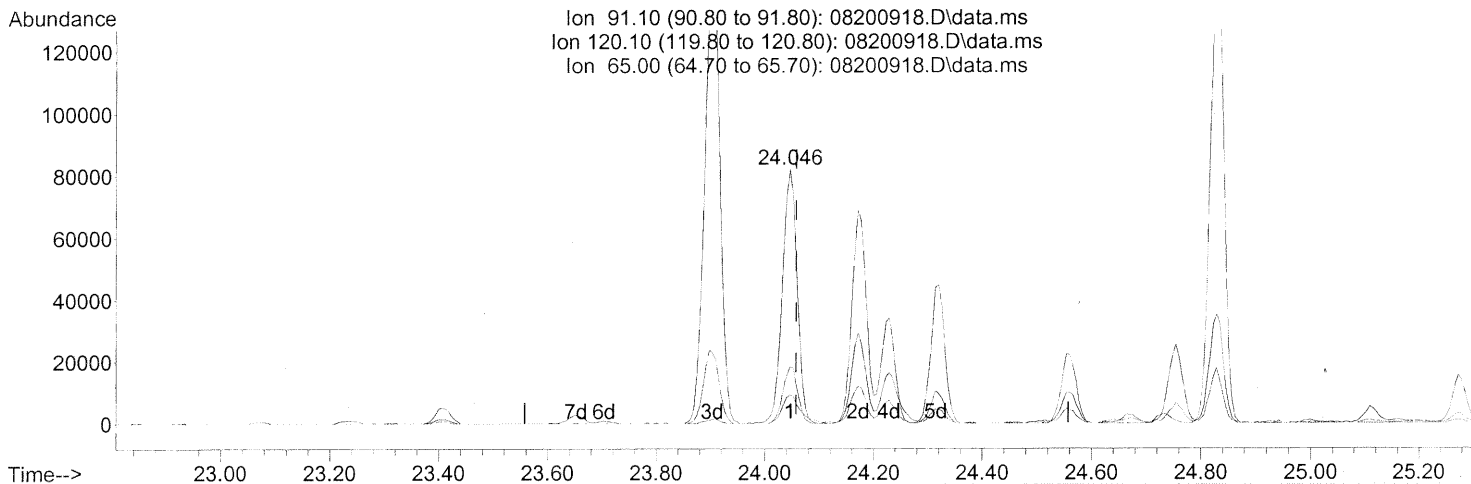
(75) alpha-Pinene (T)
 23.903min (-0.012) 22.83ng
 response 679949

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	50.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.012) 2.12ng

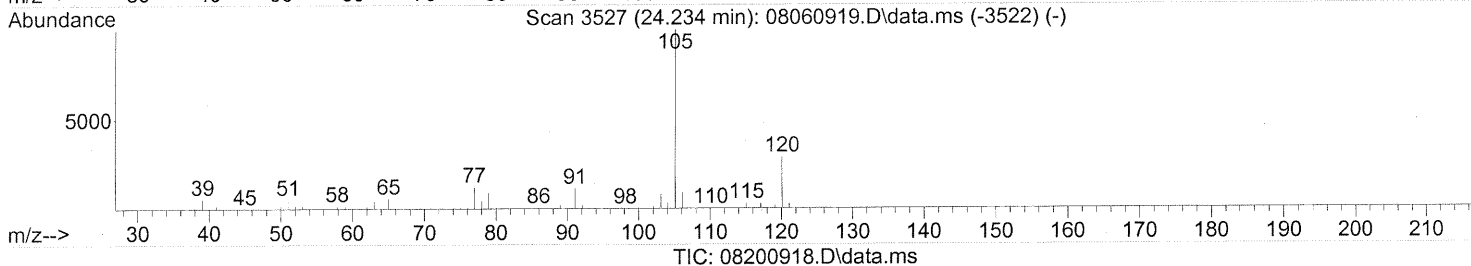
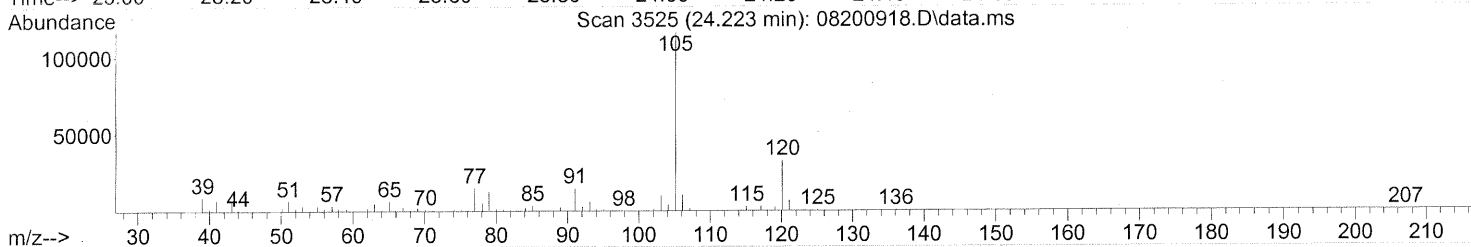
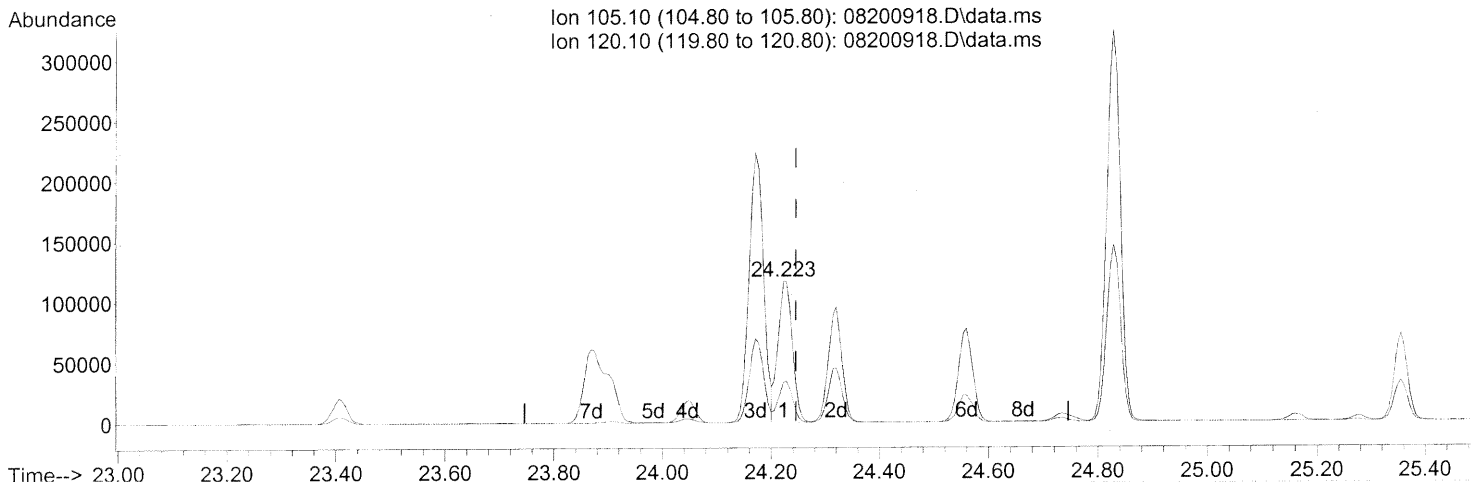
response 154586

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	22.21
65.00	12.00	13.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.223min (-0.023) 3.94ng

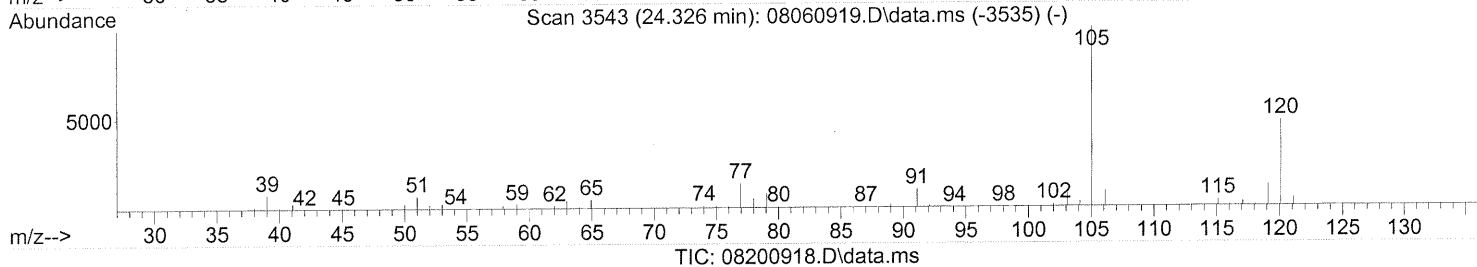
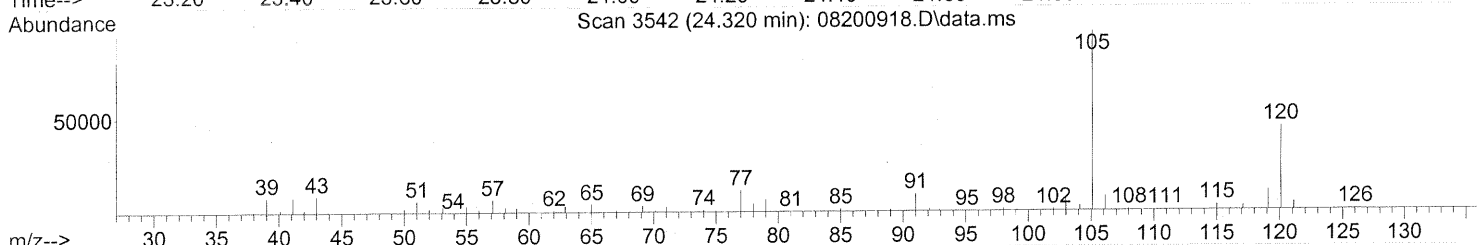
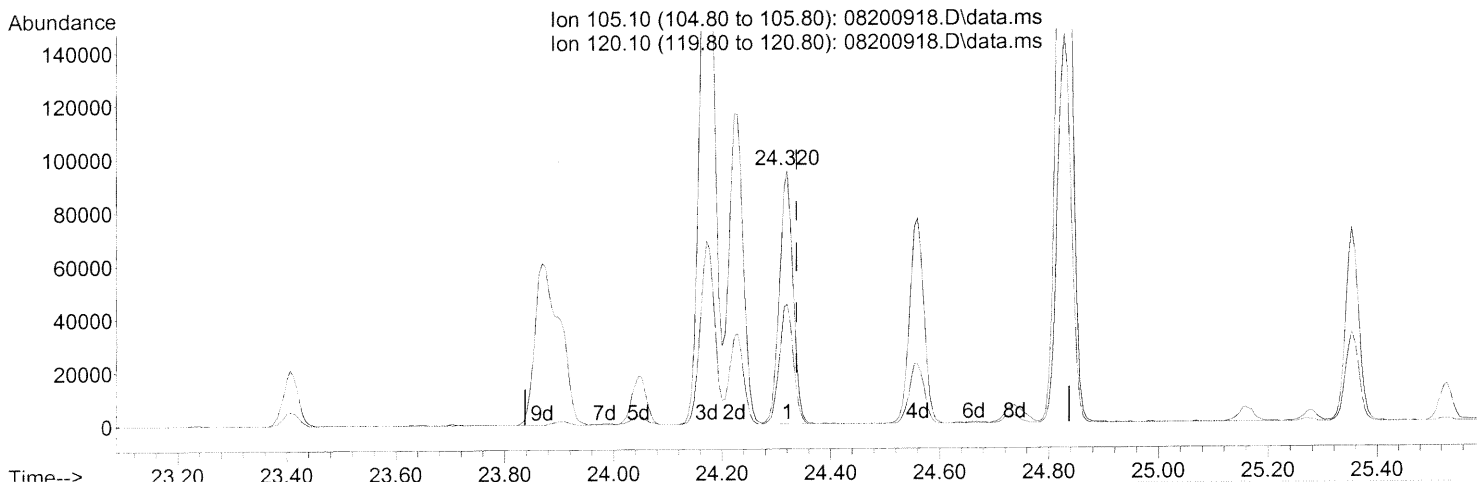
response 212256

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	29.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 3.65ng

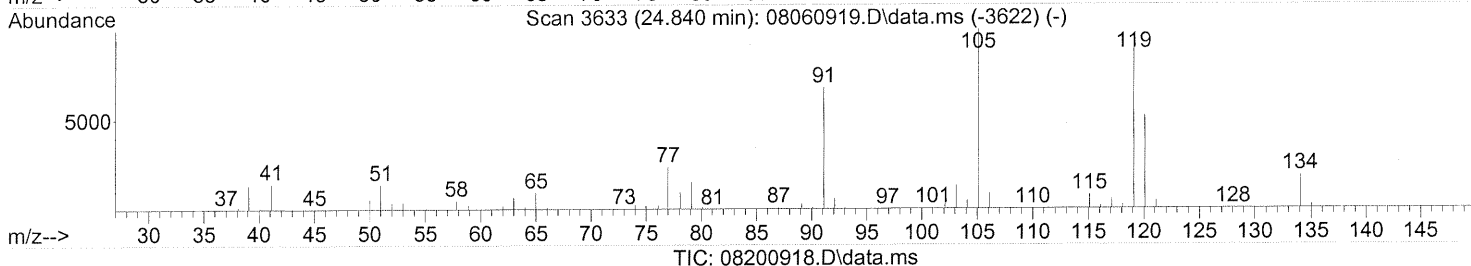
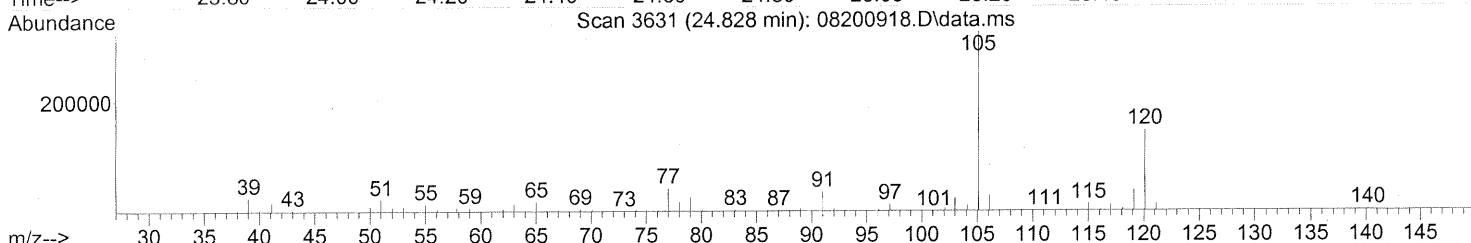
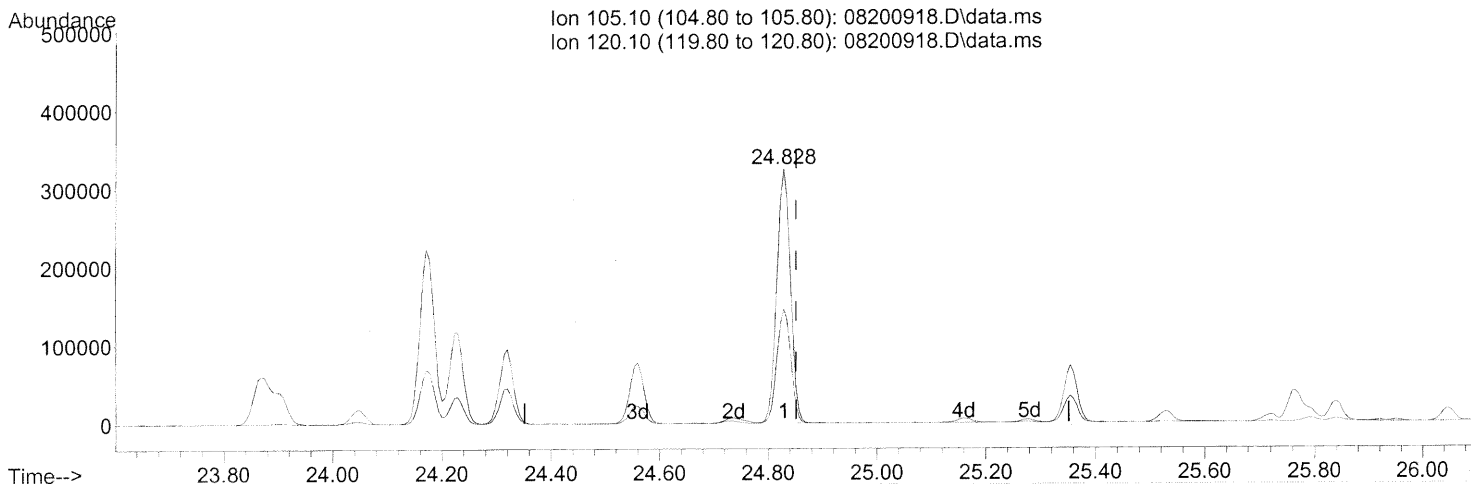
response 165444

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 12.28ng

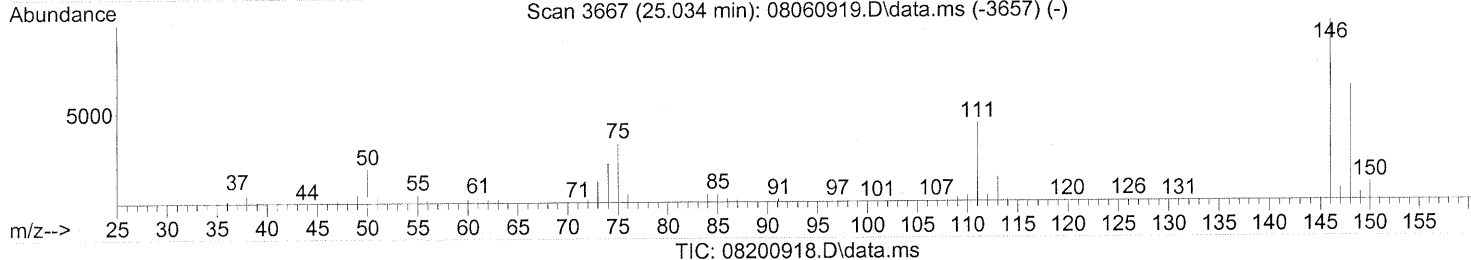
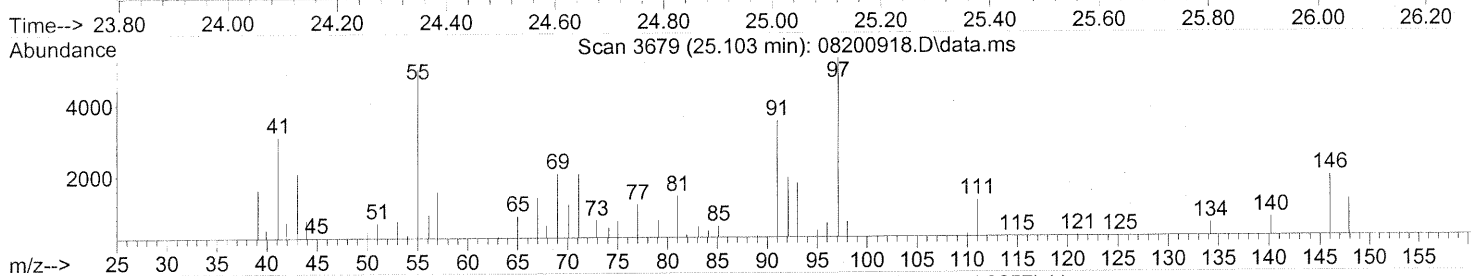
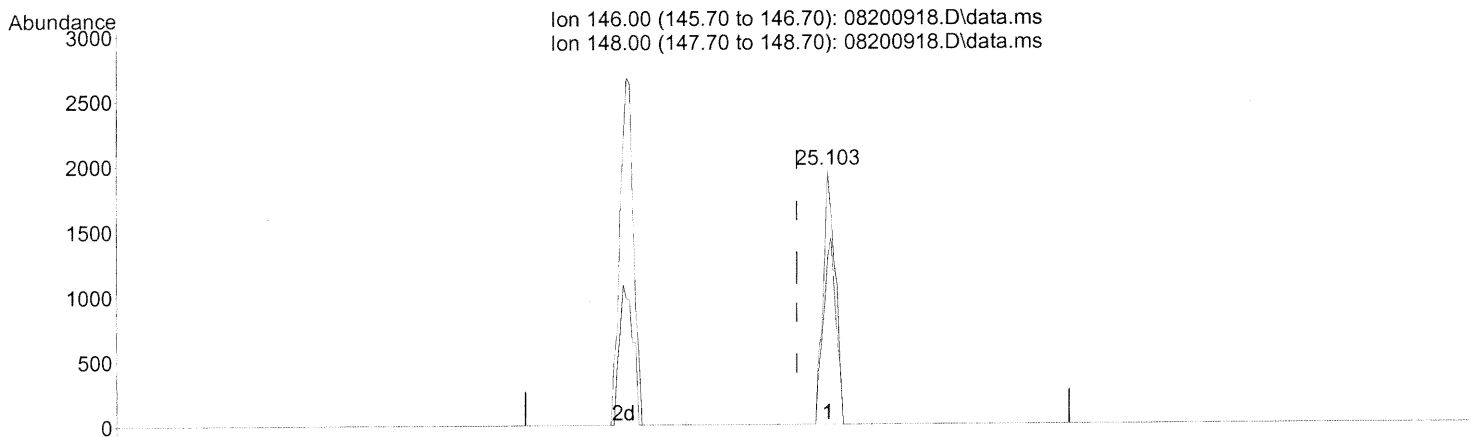
response 568463

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.13ng

response 3066

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	75.93
0.00	0.00	0.00
0.00	0.00	0.00

TP

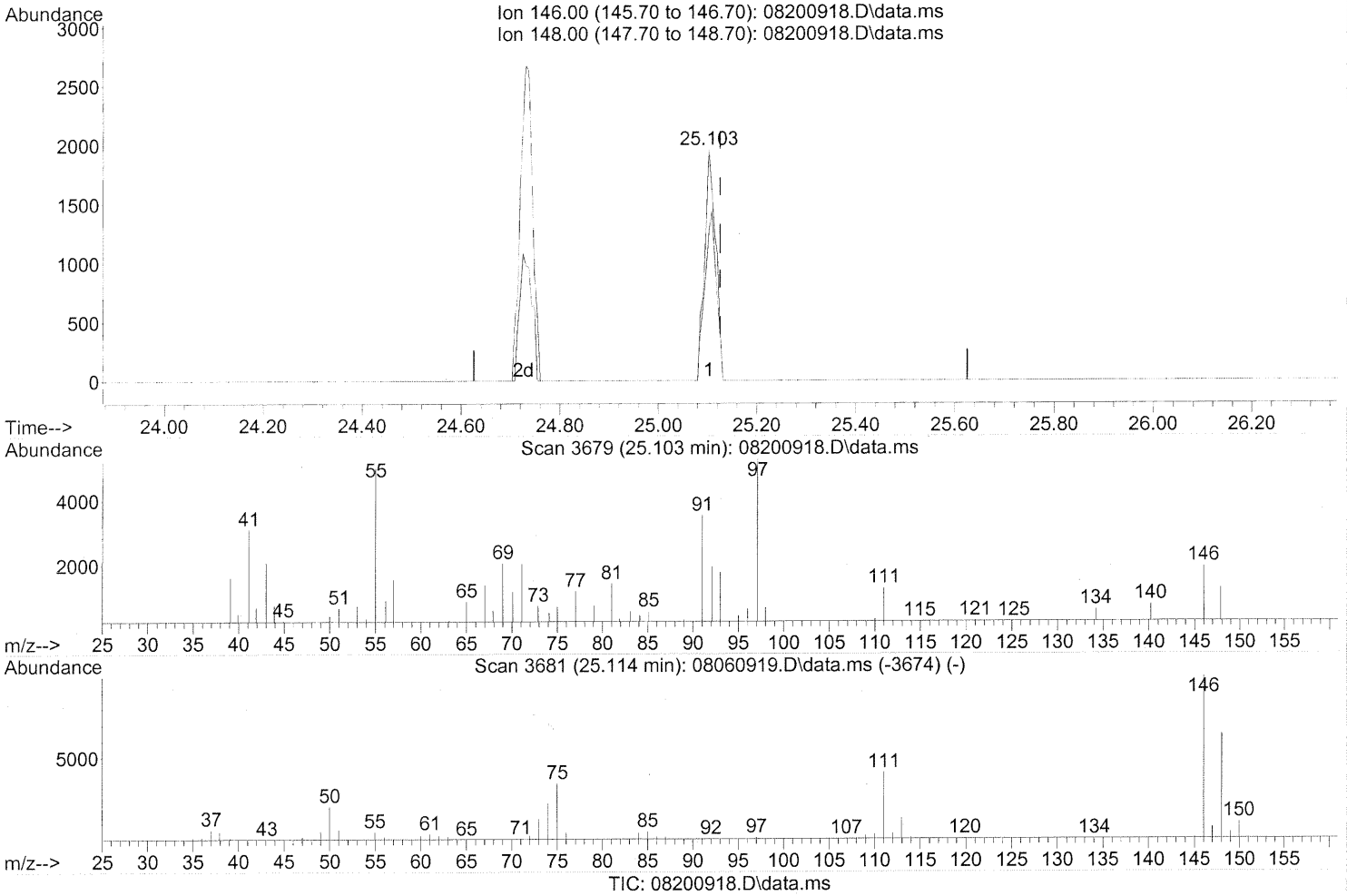
DA 8/22/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.12ng

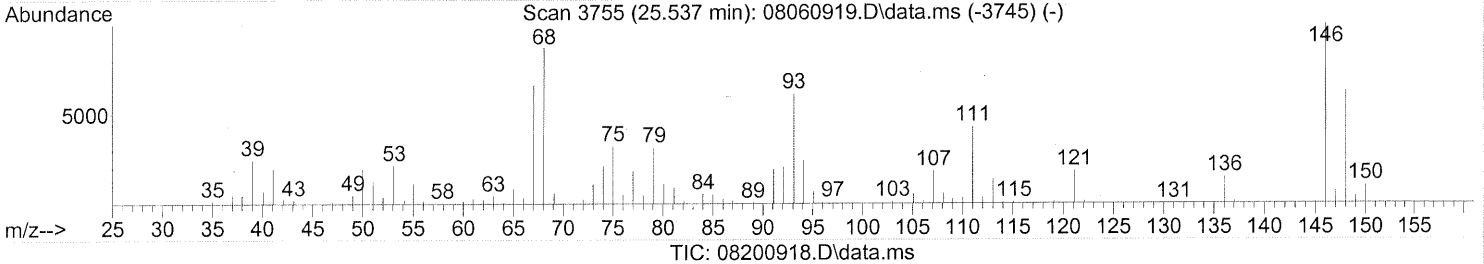
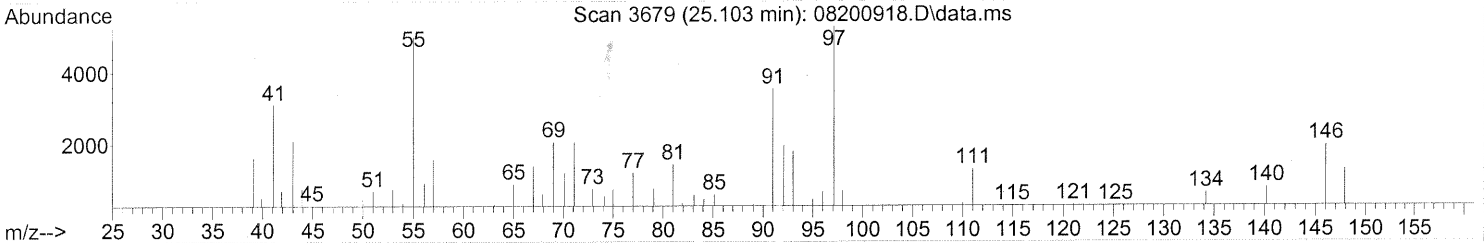
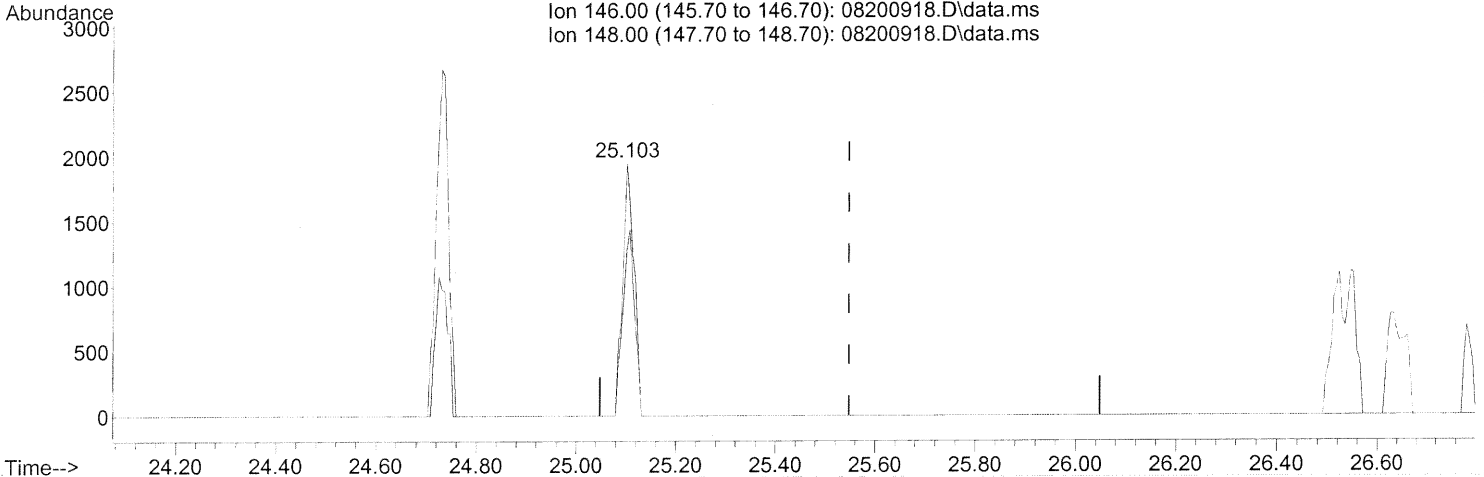
response 3066

ion	Exp%	Act%
146.00	100	100
148.00	62.20	75.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.103min (-0.446) 0.14ng

response 3066

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	75.93
0.00	0.00	0.00
0.00	0.00	0.00

FP

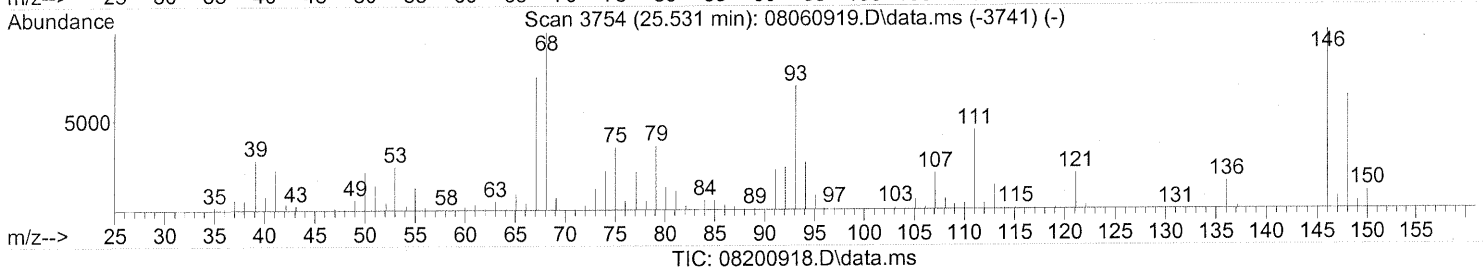
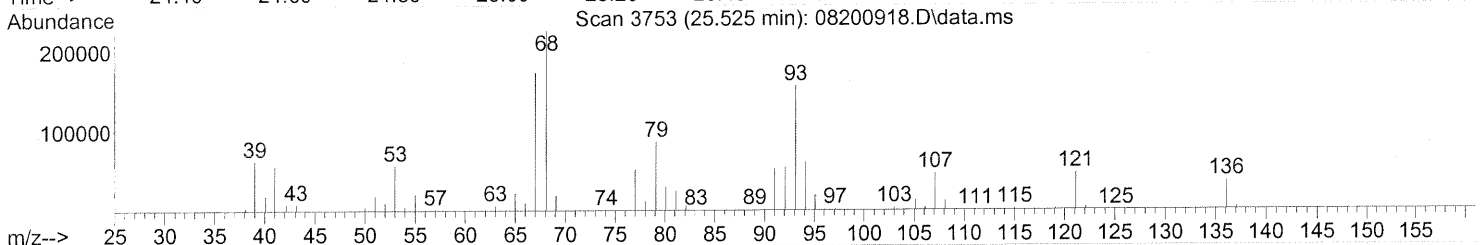
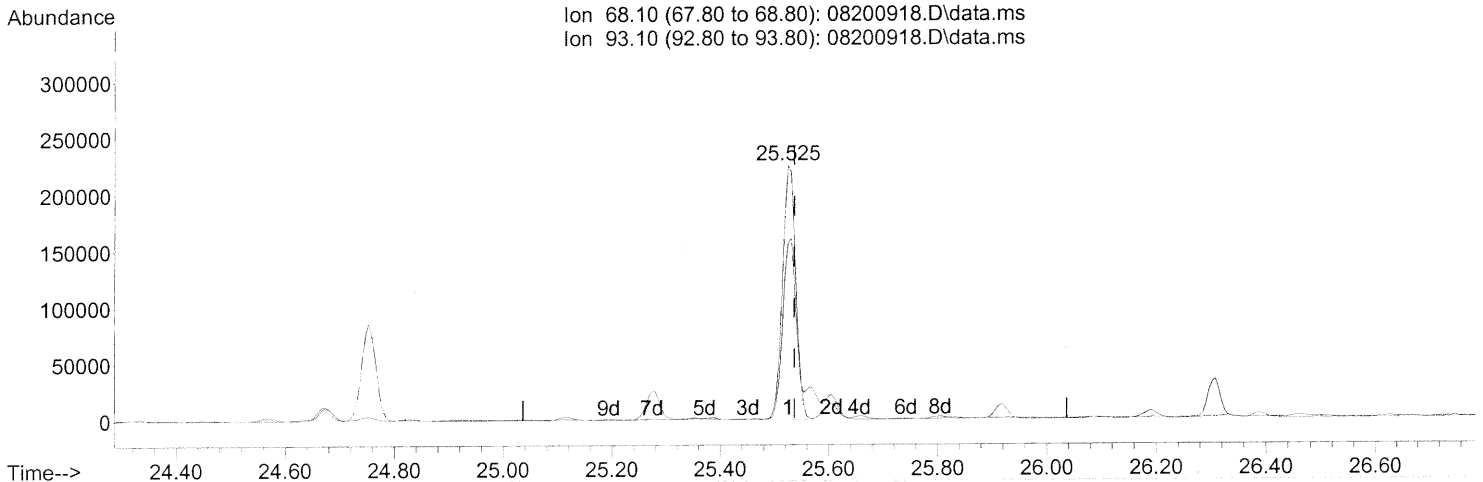
DA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200918.D
Acq On : 20 Aug 2009 21:57
Operator : WA
Sample : P0902805-001 (1000mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



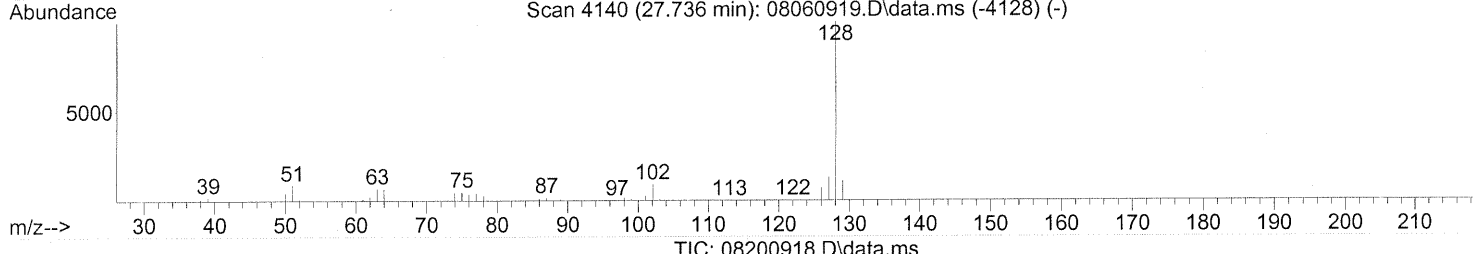
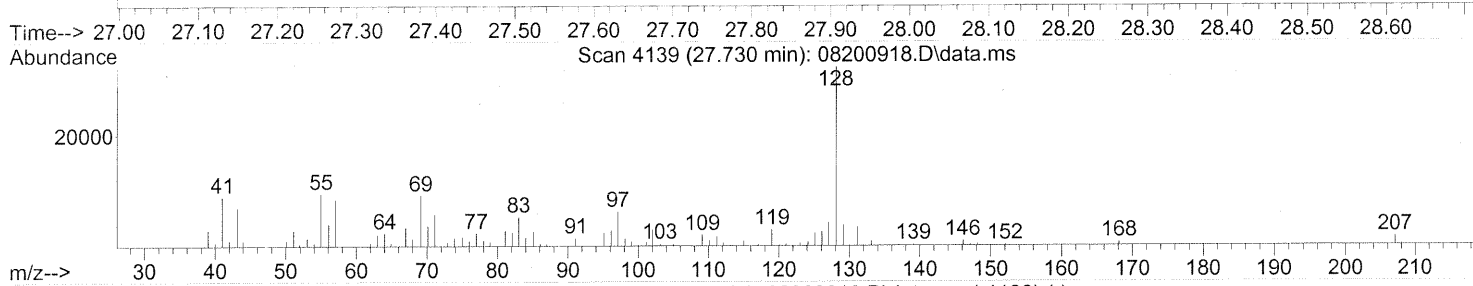
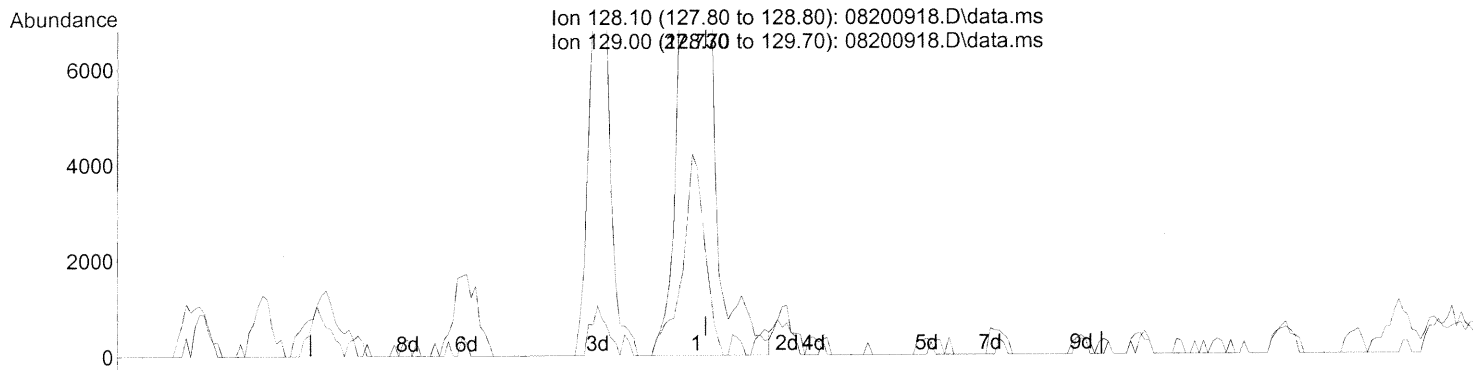
(91) d-Limonene (T)
25.525min (-0.012) 19.49ng
response 383627

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	85.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.012) 0.99ng
 response 62468

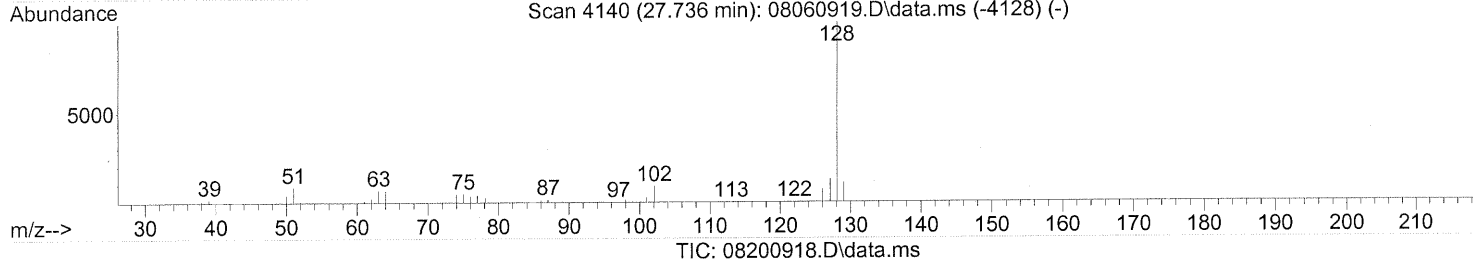
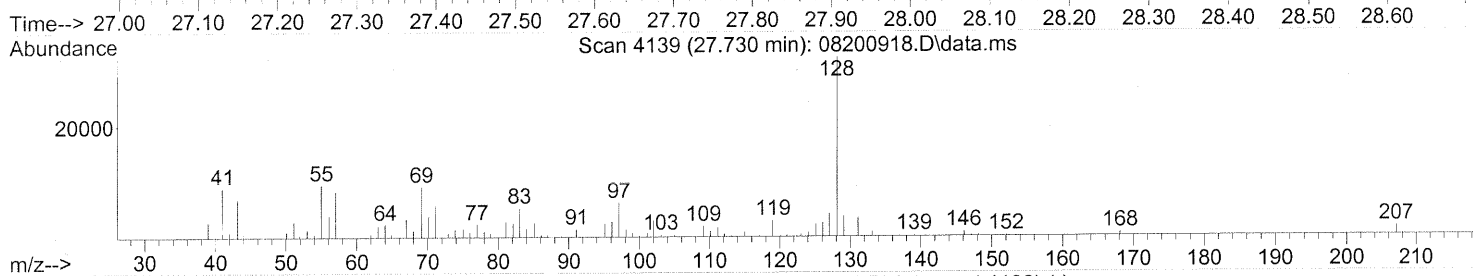
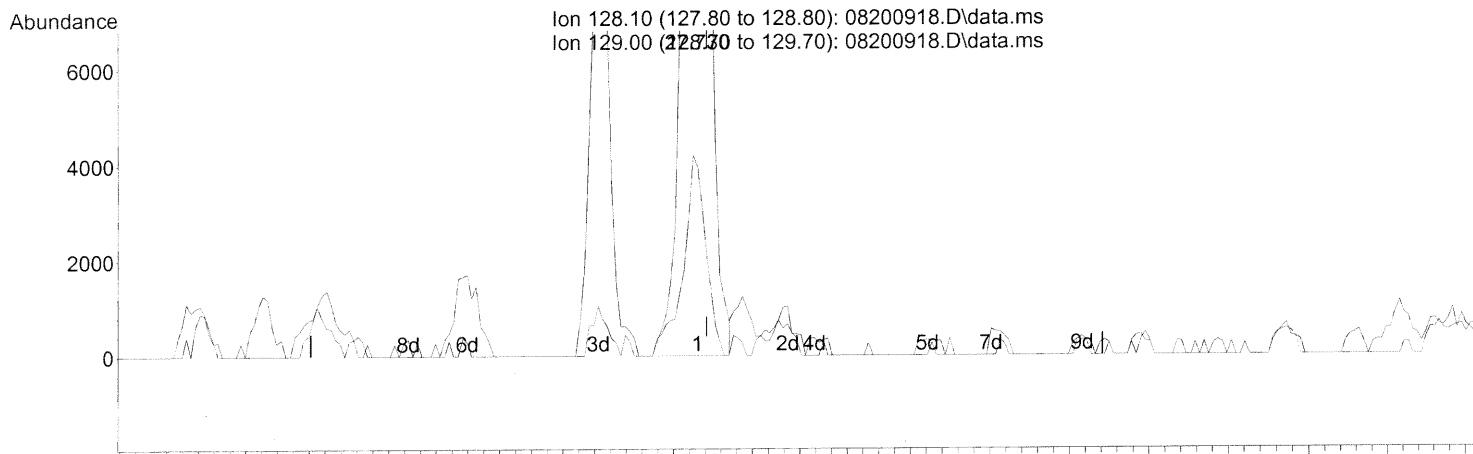
SH

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200918.D
 Acq On : 20 Aug 2009 21:57
 Operator : WA
 Sample : P0902805-001 (1000mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 03:59:53 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.012) 0.96ng m
 response 60147

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.01
0.00	0.00	0.00
0.00	0.00	0.00

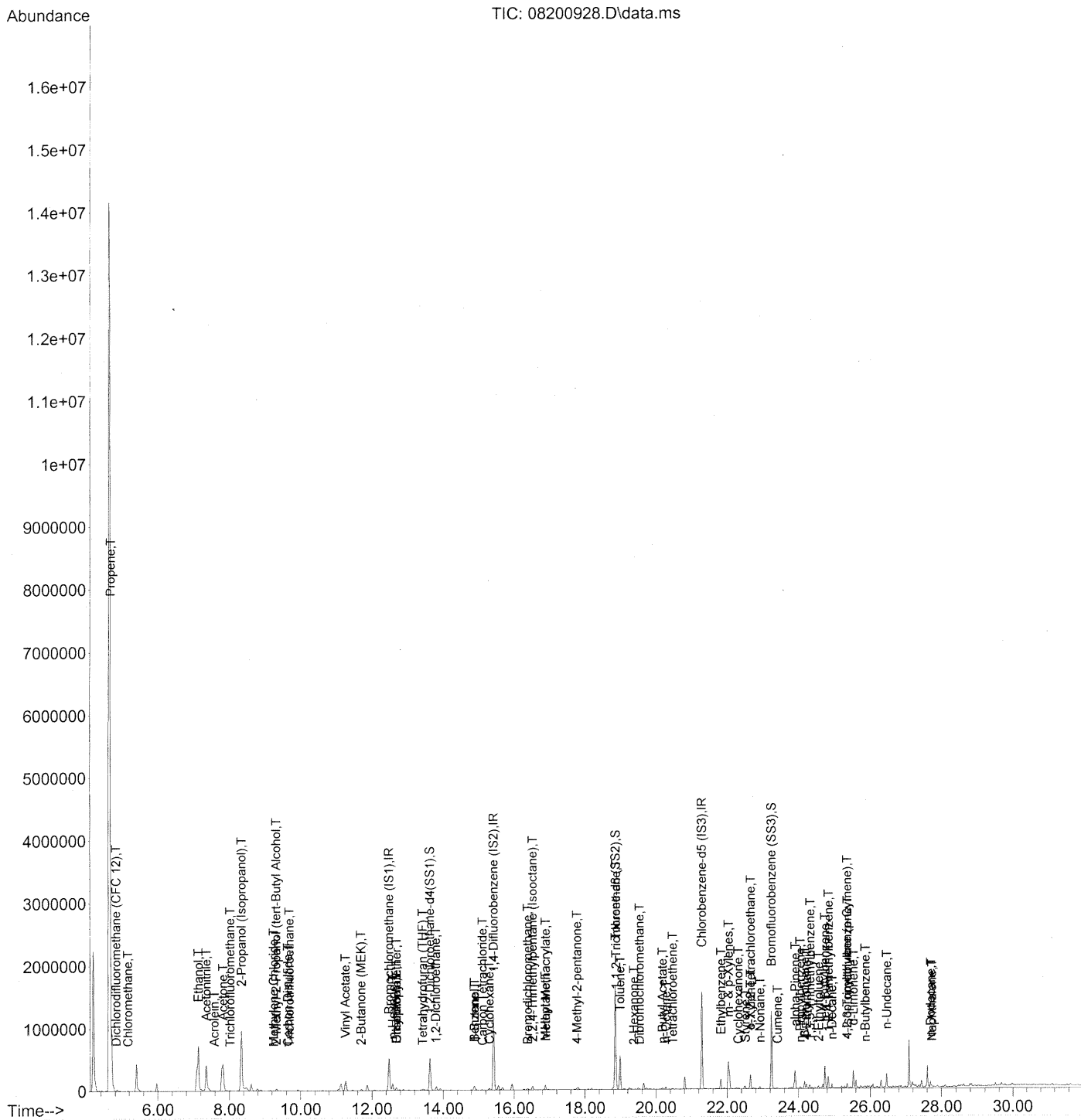
SH → TIC

WA 8/22/09

— 8/26/09

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200928.D
Acq On : 21 Aug 2009 6:37
Operator : WA
Sample : P0902805-001 dil (200mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:50:23 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200928.D
 Acq On : 21 Aug 2009 6:37
 Operator : WA
 Sample : P0902805-001 dil (200mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:50:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	275599	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1369828	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	651647	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	533535	22.273	ng	-0.03	
Spiked Amount				25.000			
				Recovery	=	89.08%	✓
57) Toluene-d8 (SS2)	18.85	98	1453335	25.524	ng	-0.01	
Spiked Amount				25.000			
				Recovery	=	102.08%	✓
73) Bromofluorobenzene (SS3)	23.23	174	409227	27.253	ng	-0.01	
Spiked Amount				25.000			
				Recovery	=	109.00%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	88959	4.704	ng	# 35
3) Dichlorodifluoromethan...	4.83	85	12561	0.406	ng	# 92
4) Chloromethane	5.16	50	8695	0.419	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	1610404	134.336	ng	
11) Acetonitrile	7.35	41	687578	19.585	ng	100
12) Acrolein	7.58	56	4151	0.455	ng	97
13) Acetone	7.82	58	209044	18.481	ng	# 63
14) Trichlorofluoromethane	8.02	101	5080	0.182	ng	90
15) 2-Propanol (Isopropanol)	8.34	45	2185775	49.174	ng	99
16) Acrylonitrile	8.57	53	87	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	8720	0.221	ng	# 5
19) Methylene Chloride	9.25	84	1173	0.077	ng	94
20) 3-Chloro-1-propene (Al...	9.43	41	90	N.D.		
21) Trichlorotrifluoroethane	9.68	151	742	0.073	ng	96
22) Carbon Disulfide	9.64	76	5894	0.110	ng	78
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.20	73	104	N.D.		
26) Vinyl Acetate	11.26	86	7218	3.136	ng	# 1
27) 2-Butanone (MEK)	11.69	72	8363	0.819	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	692	0.051	ng	# 1
30) Ethyl Acetate	12.68	61	8741	1.643	ng	92
31) n-Hexane	12.58	57	70093	2.575	ng	99

68

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200928.D
 Acq On : 21 Aug 2009 6:37
 Operator : WA
 Sample : P0902805-001 dil (200mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:50:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	7615	0.318	ng	98
34) Tetrahydrofuran (THF)	13.43	72	4251	0.390	ng #	32
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	7766	0.355	ng	97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.85	61	107	N.D.		
40) 1-Butanol	14.88	56	20212	1.137	ng	86
41) Benzene	14.88	78	63035	1.047	ng	99
42) Carbon Tetrachloride	15.11	117	1676	0.087	ng	86
43) Cyclohexane	15.30	84	14771	0.670	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	4895	0.247	ng #	60
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.54	88	89	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	65908	0.929	ng	93
50) Methyl Methacrylate	16.89	100	6524	1.177	ng #	1
51) n-Heptane	16.88	71	22832	1.413	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	6507	0.450	ng	99
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.87	97	125539	9.494	ng #	6
58) Toluene	18.98	91	482061	8.615	ng	98
59) 2-Hexanone	19.37	43	4315	0.116	ng	77
60) Dibromochloromethane	19.53	129	1327	0.100	ng #	76
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	20349	0.464	ng	91
63) n-Octane	20.28	57	7482	0.553	ng	98
64) Tetrachloroethene	20.46	166	3988	0.308	ng	95
65) Chlorobenzene	21.37	112	764	N.D.		
66) Ethylbenzene	21.82	91	148708	2.325	ng	98
67) m- & p-Xylenes	22.04	91	448056	8.659	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	12703	0.340	ng	98
70) o-Xylene	22.65	91	158502	3.055	ng	97
71) n-Nonane	22.92	43	14664	0.425	ng	98
72) 1,1,2,2-Tetrachloroethane	22.65	83	1270	0.055	ng	94
74) Cumene	23.41	105	7869	0.120	ng	91
75) alpha-Pinene	23.90	93	134108	3.992	ng	70
76) n-Propylbenzene	24.05	91	29246	0.355	ng	98
77) 3-Ethyltoluene	24.17	105	79084	1.263	ng	99
78) 4-Ethyltoluene	24.23	105	41338	0.681	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	32734	0.640	ng	98

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200928.D
 Acq On : 21 Aug 2009 6:37
 Operator : WA
 Sample : P0902805-001 dil (200mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:50:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

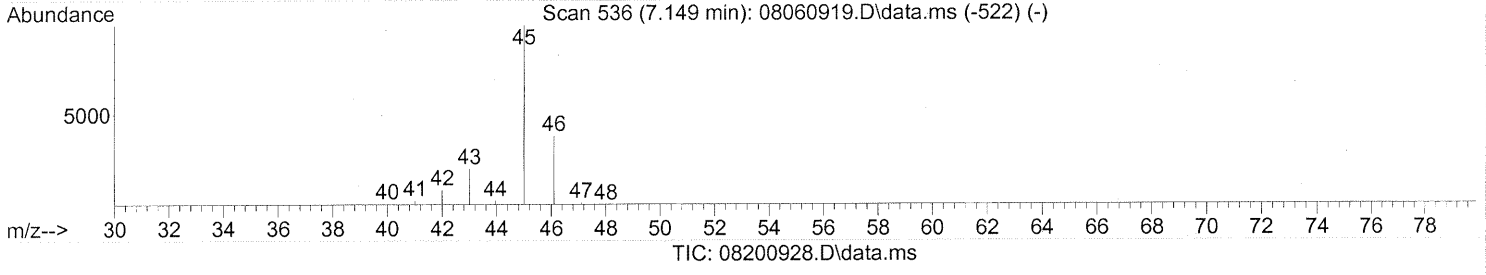
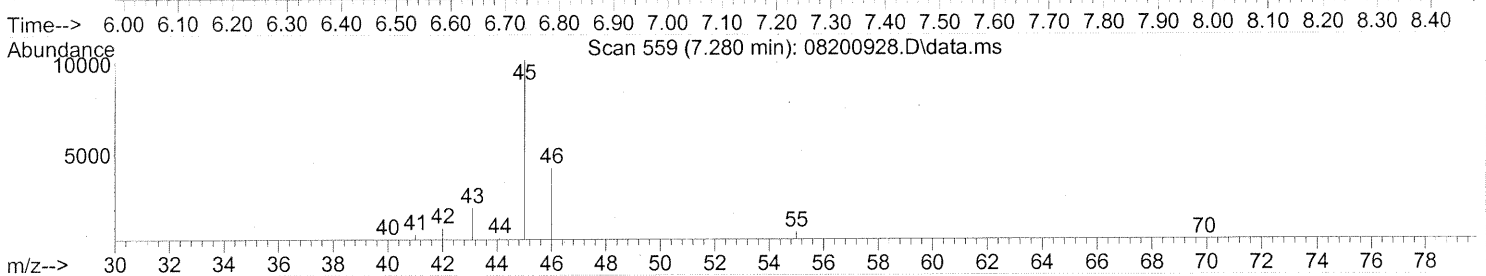
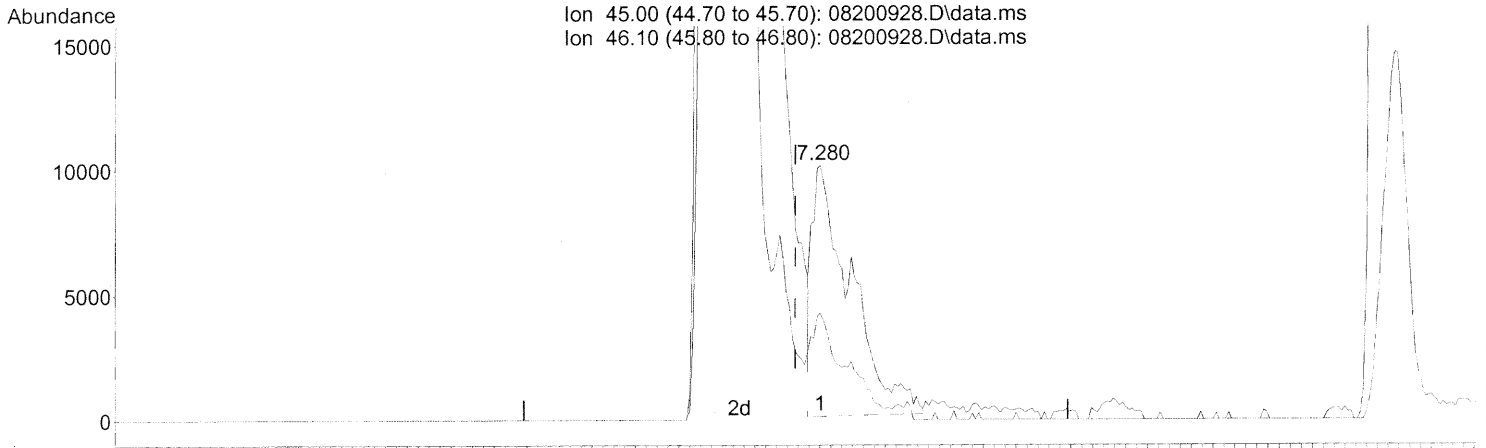
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	630	N.D.		
81) 2-Ethyltoluene	24.56	105	27253	0.431	ng	97
82) 1,2,4-Trimethylbenzene	24.83	105	112054	2.147	ng	89
83) n-Decane	24.93	57	27647	0.815	ng	95
84) Benzyl Chloride	24.99	91	321	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	788	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	788	N.D.		
87) sec-Butylbenzene	25.16	105	2174	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	16364	0.260	ng	92
89) 1,2,3-Trimethylbenzene	25.35	105	24930	0.469	ng	93
90) 1,2-Dichlorobenzene	25.10	146	788	N.D.		
91) d-Limonene	25.53	68	73107	3.294	ng	80
92) 1,2-Dibromo-3-Chloropr...	26.46	157	119	N.D.		
93) n-Undecane	26.46	57	76927	2.131	ng	86
94) 1,2,4-Trichlorobenzene	27.59	180	719	N.D.		
95) Naphthalene	27.73	128	13373	0.189	ng	100
96) n-Dodecane	27.70	57	29713	0.708	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	5822	0.251	ng #	93
99) tert-Butylbenzene	24.73	119	8256	0.163	ng	97
100) n-Butylbenzene	25.86	91	8281	0.142	ng #	42

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200928.D
 Acq On : 21 Aug 2009 6:37
 Operator : WA
 Sample : P0902805-001 dil (200mL)
 Misc : Environmental Health 101309
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:48:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.280min (+0.046) 4.18ng
 response 50161

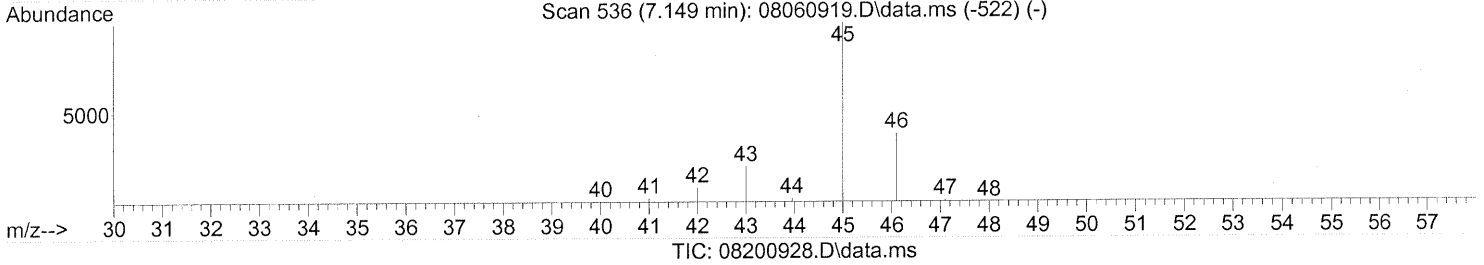
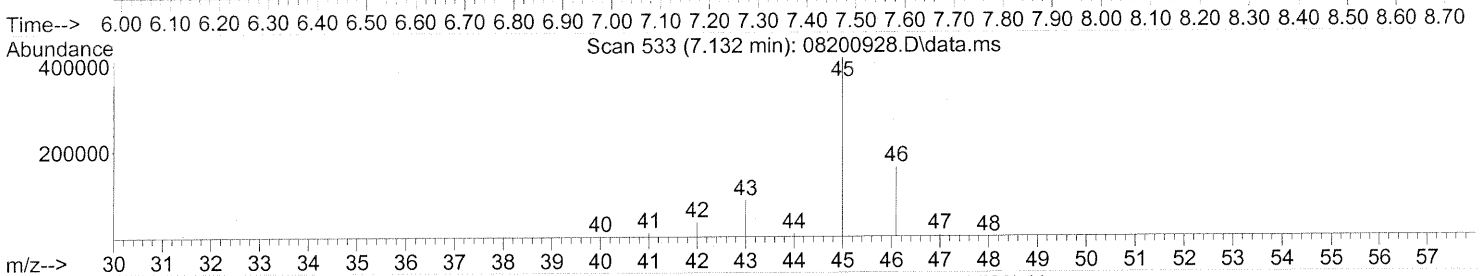
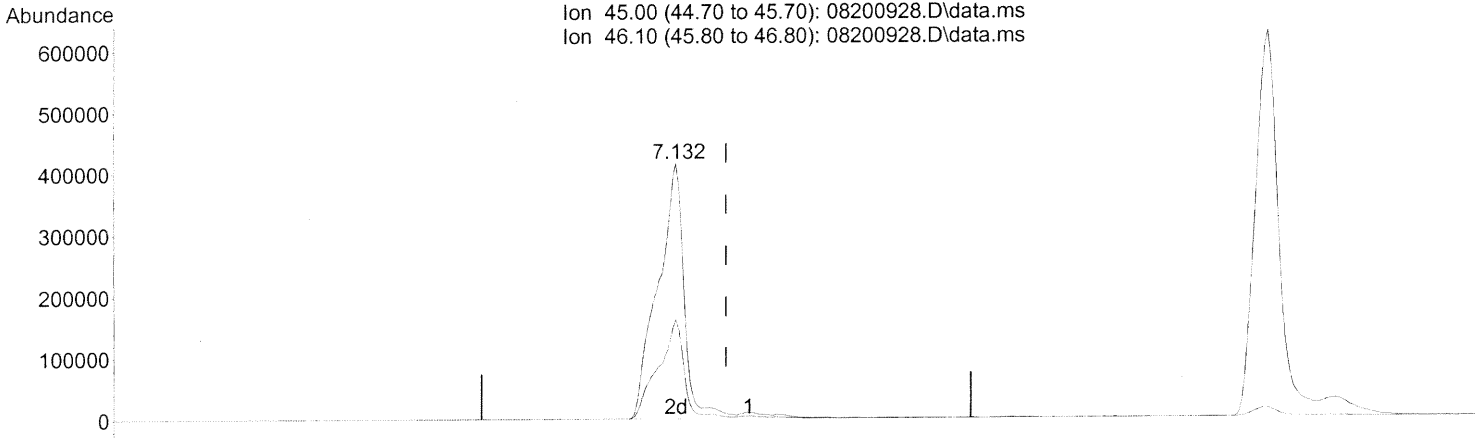
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	41.57
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200928.D
Acq On : 21 Aug 2009 6:37
Operator : WA
Sample : P0902805-001 dil (200mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:48:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.132min (-0.103) 134.34ng m
response 1610404

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	1.29#
0.00	0.00	0.00
0.00	0.00	0.00

SP -> IC

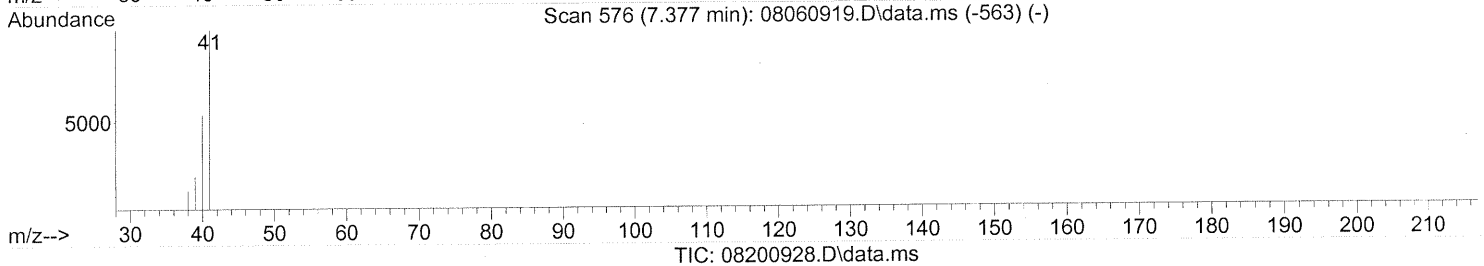
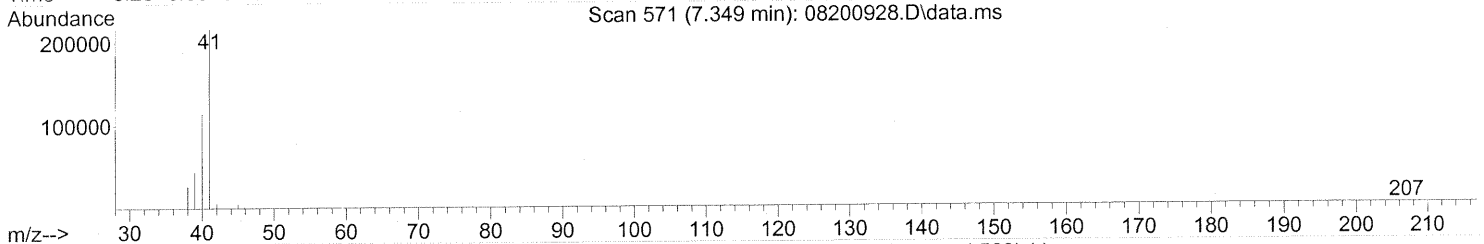
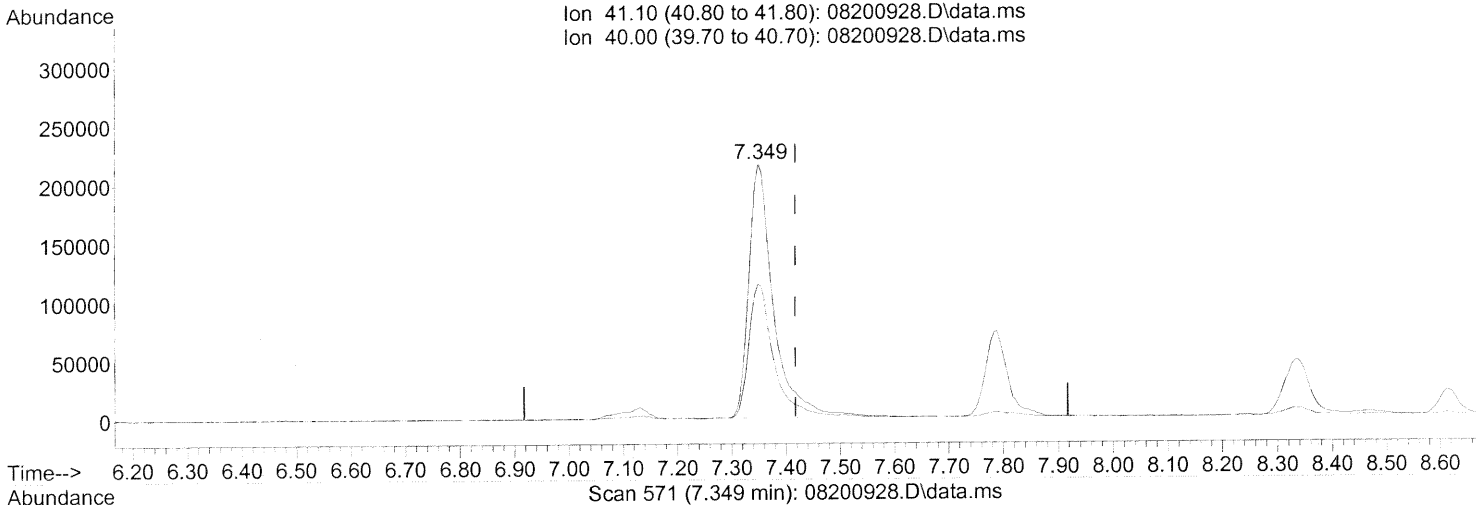
101 8/24/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200928.D
Acq On : 21 Aug 2009 6:37
Operator : WA
Sample : P0902805-001 dil (200mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:48:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

7.349min (-0.069) 19.58ng

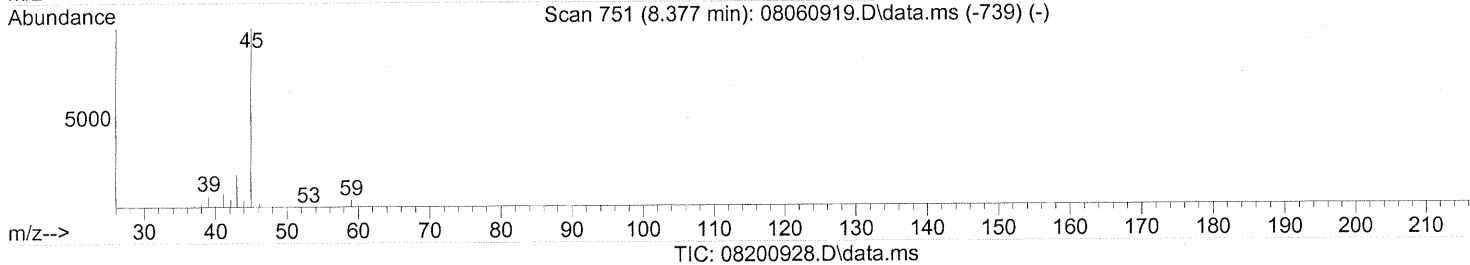
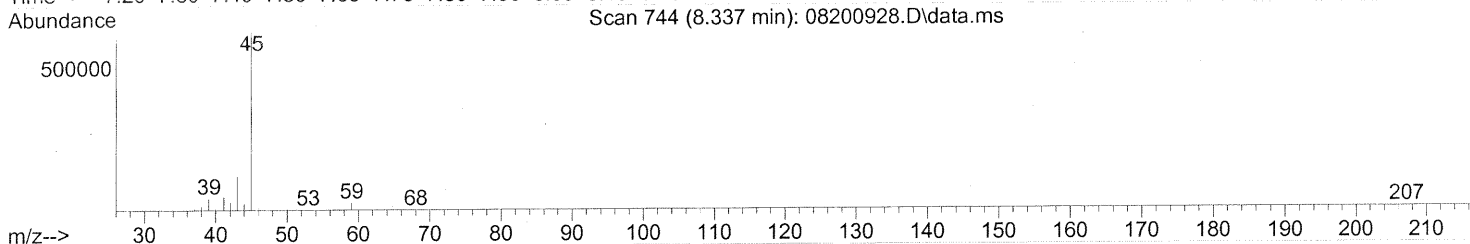
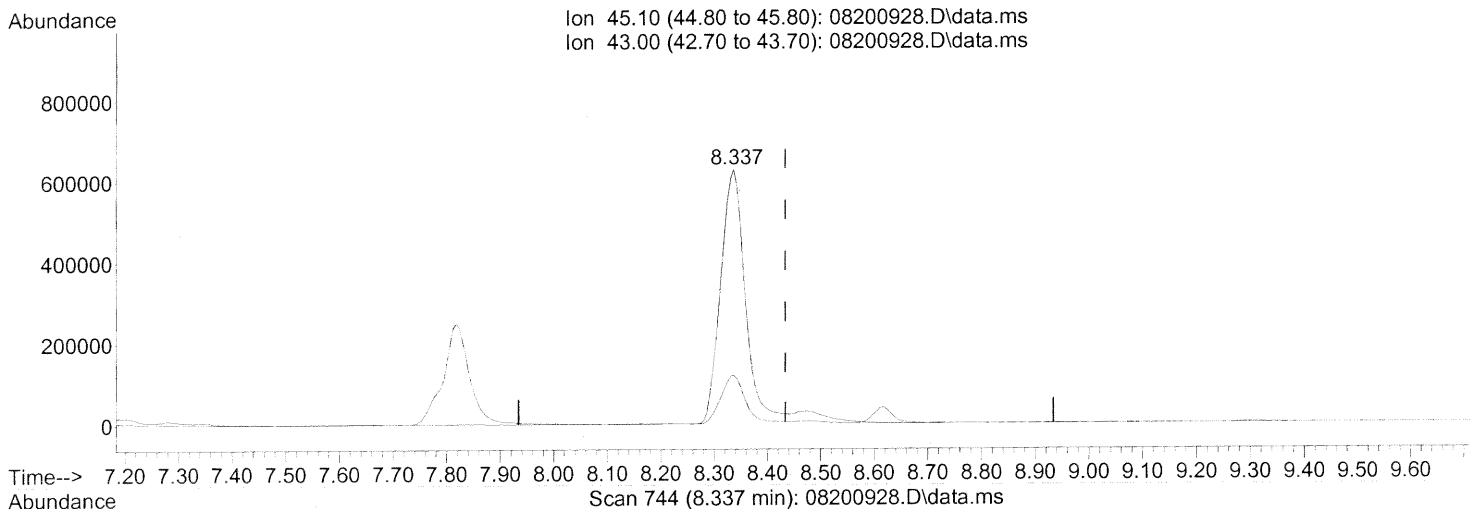
response 687578

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200928.D
Acq On : 21 Aug 2009 6:37
Operator : WA
Sample : P0902805-001 dil (200mL)
Misc : Environmental Health 101309
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 18:48:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.337min (-0.097) 49.17ng

response 2185775

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.77
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101310
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01230

CAS Project ID: P0902805
 CAS Sample ID: P0902805-002
 Date Collected: 8/13/09
 Date Received: 8/14/09
 Date Analyzed: 8/20 - 8/21/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.29

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	10	0.65	5.8	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.5	0.65	0.70	0.13	
74-87-3	Chloromethane	1.4	0.13	0.68	0.062	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	0.18	0.13	0.082	0.058	
74-83-9	Bromomethane	ND	0.13	ND	0.033	
75-00-3	Chloroethane	ND	0.13	ND	0.049	
64-17-5	Ethanol	870	6.5	460	3.4	D
75-05-8	Acetonitrile	130	0.65	77	0.38	D
107-02-8	Acrolein	3.9	0.65	1.7	0.28	
67-64-1	Acetone	120	6.5	50	2.7	
75-69-4	Trichlorofluoromethane	1.5	0.13	0.26	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	300	0.65	120	0.26	D
107-13-1	Acrylonitrile	ND	0.65	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.033	
75-09-2	Methylene Chloride	ND	0.65	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	0.79	0.13	0.10	0.017	
75-15-0	Carbon Disulfide	ND	0.65	ND	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.033	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.036	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	3.9	0.65	1.3	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

9/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101310

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01230

Date Collected: 8/13/09

Date Received: 8/14/09

Date Analyzed: 8/20 - 8/21/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -0.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.29

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	12	0.65	3.4	0.18	
110-54-3	n-Hexane	20	0.65	5.6	0.18	
67-66-3	Chloroform	2.6	0.13	0.53	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	ND	0.22	
107-06-2	1,2-Dichloroethane	2.8	0.13	0.69	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	7.9	0.13	2.5	0.040	
56-23-5	Carbon Tetrachloride	0.58	0.13	0.092	0.021	
110-82-7	Cyclohexane	5.3	0.65	1.5	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	1.8	0.13	0.27	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	0.65	ND	0.16	
142-82-5	n-Heptane	11	0.65	2.6	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	ND	0.14	
108-10-1	4-Methyl-2-pentanone	2.6	0.65	0.64	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	65	0.65	17	0.17	
591-78-6	2-Hexanone	ND	0.65	ND	0.16	
124-48-1	Dibromochloromethane	0.80	0.13	0.095	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	4.2	0.65	0.89	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

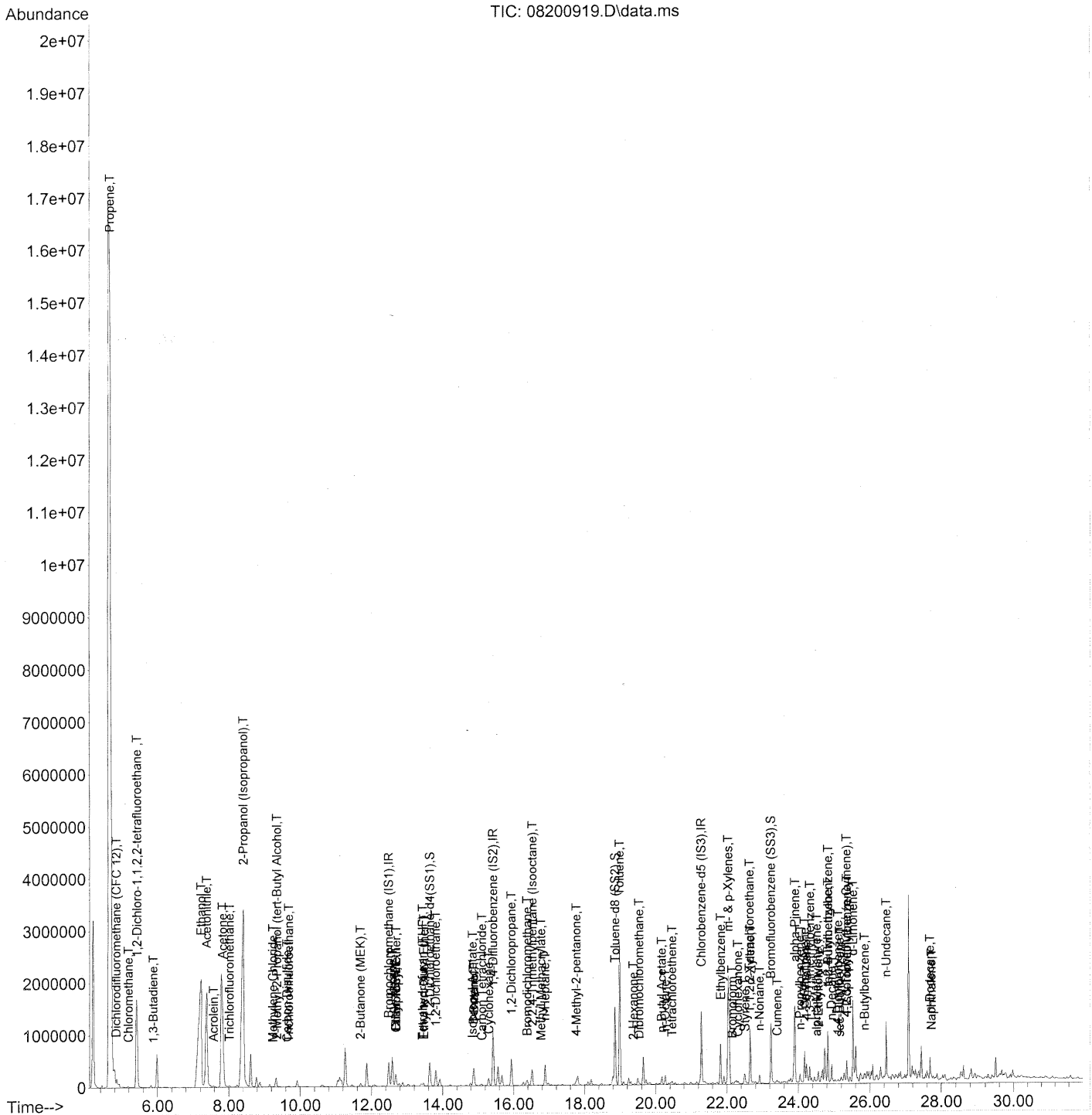
9/3/09

76

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 14:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
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Quant Time: Aug 21 14:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	235667	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1195596	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	573144	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	461033	22.508	ng	-0.03	
Spiked Amount				25.000			
				Recovery	=	90.04%	✓
57) Toluene-d8 (SS2)	18.85	98	1301104	25.981	ng	-0.01	
Spiked Amount				25.000			
				Recovery	=	103.92%	✓
73) Bromofluorobenzene (SS3)	23.23	174	376698	28.523	ng	-0.01	✓
Spiked Amount				25.000			
				Recovery	=	114.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	124804m	7.717	ng	
3) Dichlorodifluoromethan...	4.84	85	71178	2.693	ng	98
4) Chloromethane	5.19	50	19461	1.096	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	897	0.084	ng	# 63
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	1706	0.140	ng	# 71
8) Bromomethane	6.37	94	390	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.22	45	7602618	741.650	ng	see dil 100
11) Acetonitrile	7.38	41	3481026	115.953	ng	see dil 100
12) Acrolein	7.57	56	23647	3.030	ng	93
13) Acetone	7.82	58	888813	91.894	ng	# 53
14) Trichlorofluoromethane	8.02	101	27101	1.134	ng	99
15) 2-Propanol (Isopropanol)	8.41	45	10080841	265.219	ng	see dil 99
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.35	59	12315	0.365	ng	# 62
19) Methylene Chloride	9.24	84	3518	0.271	ng	96
20) 3-Chloro-1-propene (Al...	9.45	41	286	N.D.		
21) Trichlorotrifluoroethane	9.68	151	5341	0.615	ng	87
22) Carbon Disulfide	9.63	76	21364	0.467	ng	95
23) trans-1,2-Dichloroethene	10.58	61	87	N.D.		
24) 1,1-Dichloroethane	11.06	63	693	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.68	72	26246	3.005	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	5368	0.459	ng	# 1
30) Ethyl Acetate	12.68	61	42599	9.364	ng	99
31) n-Hexane	12.58	57	358031	15.384	ng	99

79

DA 8/22/09

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 14:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	41132	2.007 ng		98
34) Tetrahydrofuran (THF)	13.43	72	3758	0.404 ng	#	1
35) Ethyl tert-Butyl Ether	13.47	87	1164	0.077 ng	NR #	1
36) 1,2-Dichloroethane	13.80	62	40268	2.150 ng		98
38) 1,1,1-Trichloroethane	14.19	97	265	N.D.		
39) Isopropyl Acetate	14.84	61	1340	0.151 ng	#	1
40) 1-Butanol	14.88	56	95471	6.153 ng		82
41) Benzene	14.87	78	320288	6.093 ng		99
42) Carbon Tetrachloride	15.11	117	7507	0.448 ng		97
43) Cyclohexane	15.30	84	79563	4.132 ng		93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.93	63	916	0.069 ng		99
46) Bromodichloromethane	16.38	83	24241	1.399 ng	#	69
47) Trichloroethene	16.45	130	109	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D. d		
49) 2,2,4-Trimethylpentane...	16.52	57	339567	5.484 ng		92
50) Methyl Methacrylate	16.77	100	352	0.073 ng	#	1
51) n-Heptane	16.88	71	116895	8.286 ng		99
52) cis-1,3-Dichloropropene	17.57	75	261	N.D.		
53) 4-Methyl-2-pentanone	17.76	58	25601	2.026 ng		98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	2484988	50.490 ng		99
59) 2-Hexanone	19.37	43	14195	0.434 ng		86
60) Dibromochloromethane	19.53	129	7266	0.624 ng		99
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	126678	3.284 ng		96
63) n-Octane	20.27	57	37565	3.157 ng		95
64) Tetrachloroethene	20.46	166	20994	1.843 ng		98
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.82	91	716645	12.737 ng		98
67) m- & p-Xylenes	22.04	91	2132259	46.849 ng		98
68) Bromoform	22.15	173	2602	0.269 ng		97
69) Styrene	22.51	104	68738	2.090 ng		98
70) o-Xylene	22.65	91	767987	16.830 ng		97
71) n-Nonane	22.91	43	69228	2.283 ng		97
72) 1,1,2,2-Tetrachloroethane	22.63	83	1342	0.066 ng	#	1
74) Cumene	23.41	105	39681	0.688 ng		98
75) alpha-Pinene	23.90	93	694064	23.490 ng		70
76) n-Propylbenzene	24.05	91	151056	2.085 ng		98
77) 3-Ethyltoluene	24.17	105	413343	7.503 ng		100
78) 4-Ethyltoluene	24.23	105	212885	3.988 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	163343	3.628 ng		97

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 14:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

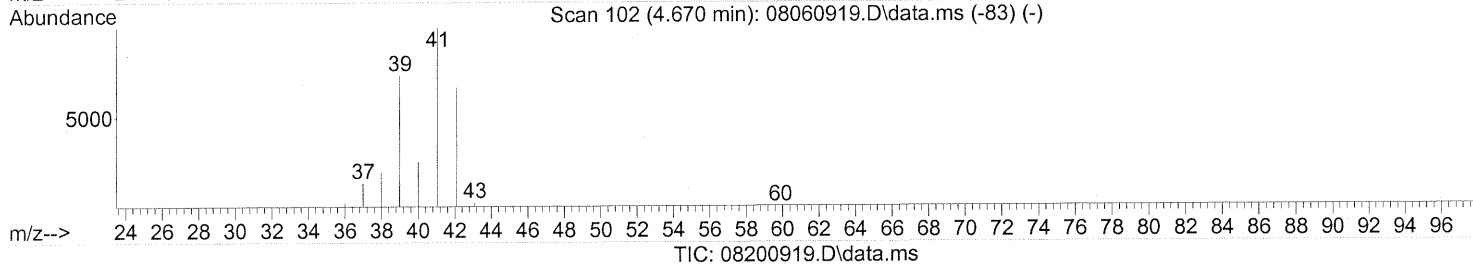
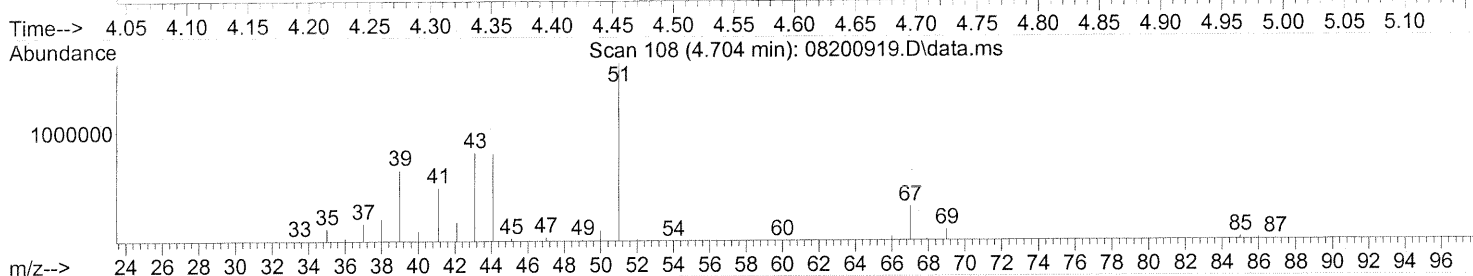
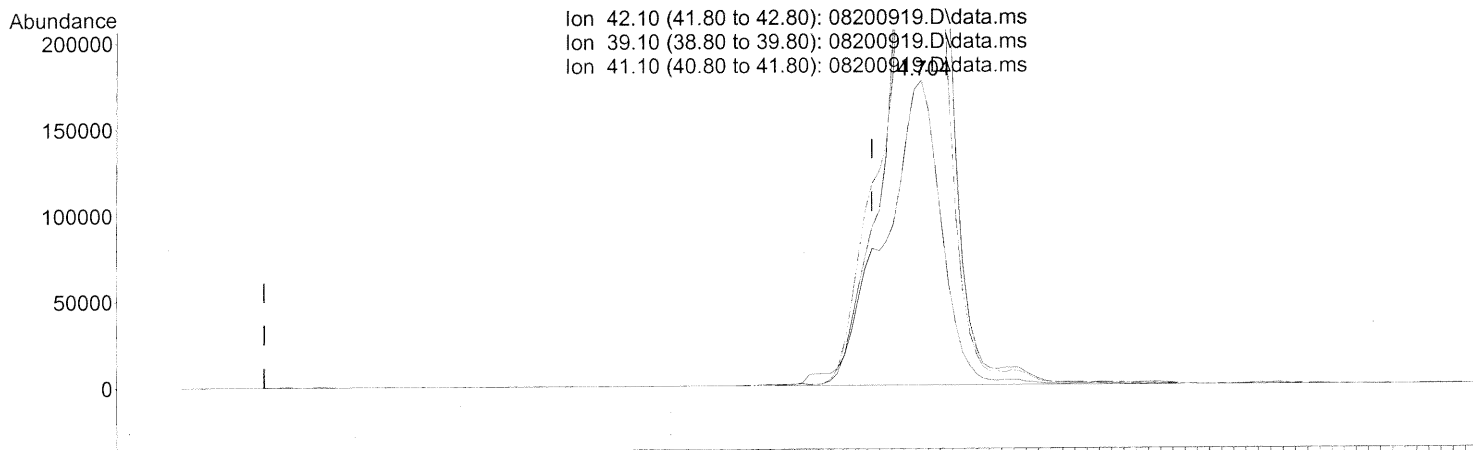
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	3108	0.129	ng	93
81) 2-Ethyltoluene	24.56	105	137839	2.481	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	563434	12.272	ng	90
83) n-Decane	24.93	57	128629	4.309	ng	91
84) Benzyl Chloride	25.03	91	830	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.11	146	3123	0.126	ng	91
87) sec-Butylbenzene	25.16	105	8921	0.144	ng	92
88) 4-Isopropyltoluene (p-...	25.35	119	89724	1.622	ng	93
89) 1,2,3-Trimethylbenzene	25.35	105	122897	2.628	ng	97
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.53	68	400768	20.528	ng	# 64
92) 1,2-Dibromo-3-Chloropr...	25.89	157	88	N.D.		
93) n-Undecane	26.46	57	395593	12.457	ng	92
94) 1,2,4-Trichlorobenzene	27.59	180	332	N.D.		
95) Naphthalene	27.73	128	51615	0.828	ng	94
96) n-Dodecane	27.69	57	144793	3.925	ng	99
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	21512	1.055	ng	95
99) tert-Butylbenzene	24.83	119	67539	1.520	ng	# 56
100) n-Butylbenzene	25.85	91	29219	0.571	ng	# 39

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 03:59:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.704min (+0.040) 35.94ng

response 581228

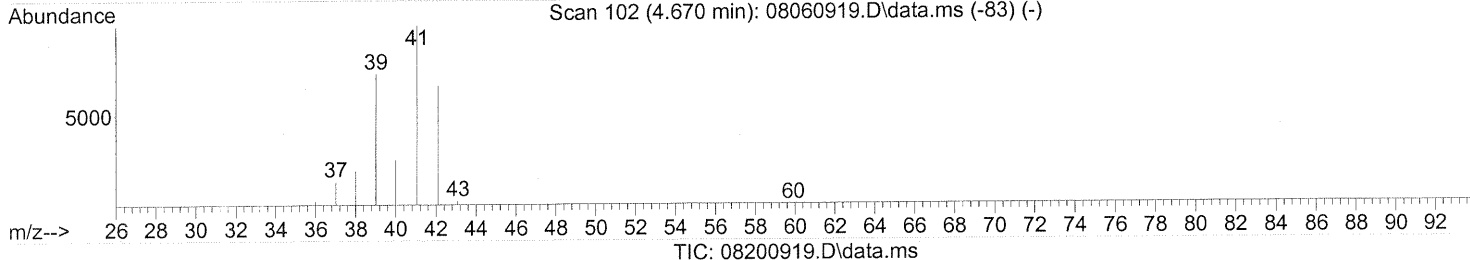
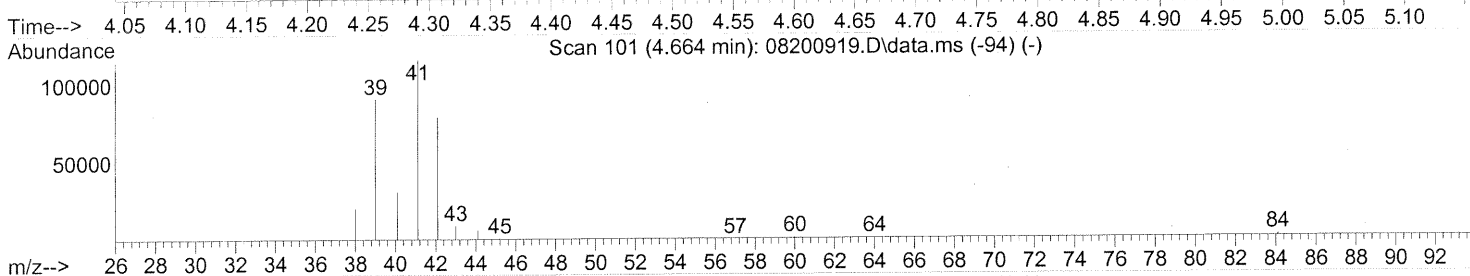
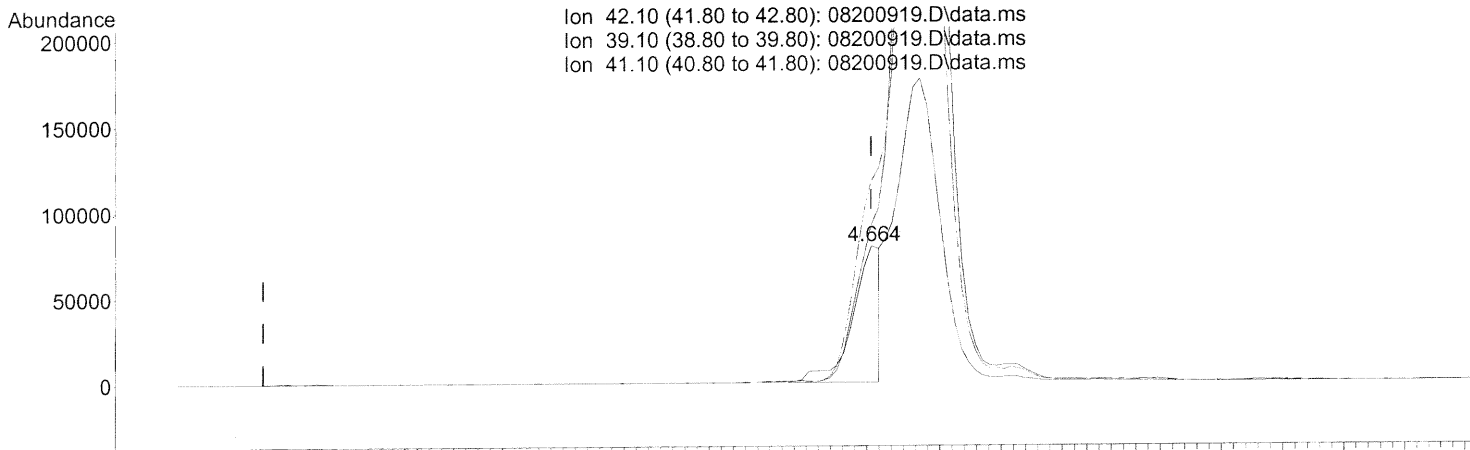
SH

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	286.02#
41.10	150.20	232.11#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 03:59:09 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 7.72ng m

response 124804

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	1332.04#
41.10	150.20	1080.98#
0.00	0.00	0.00

SAH → IC & after substn

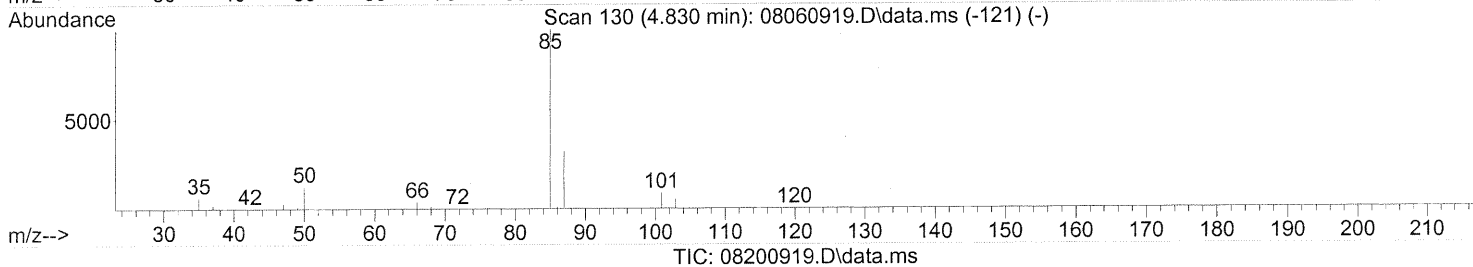
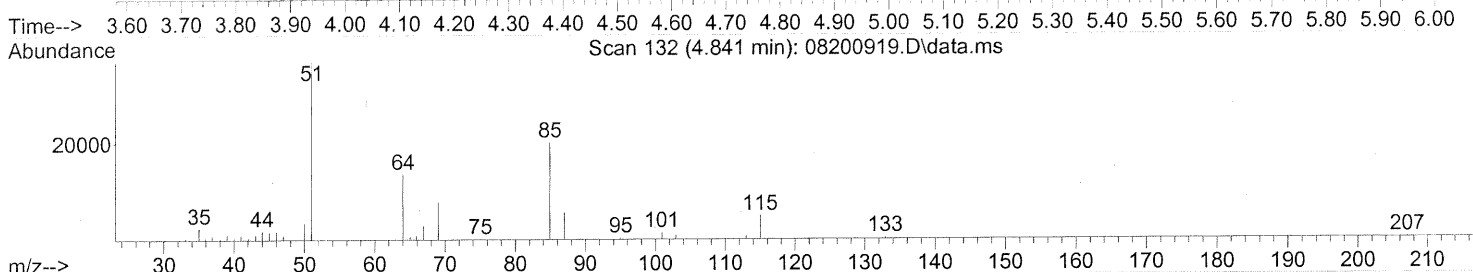
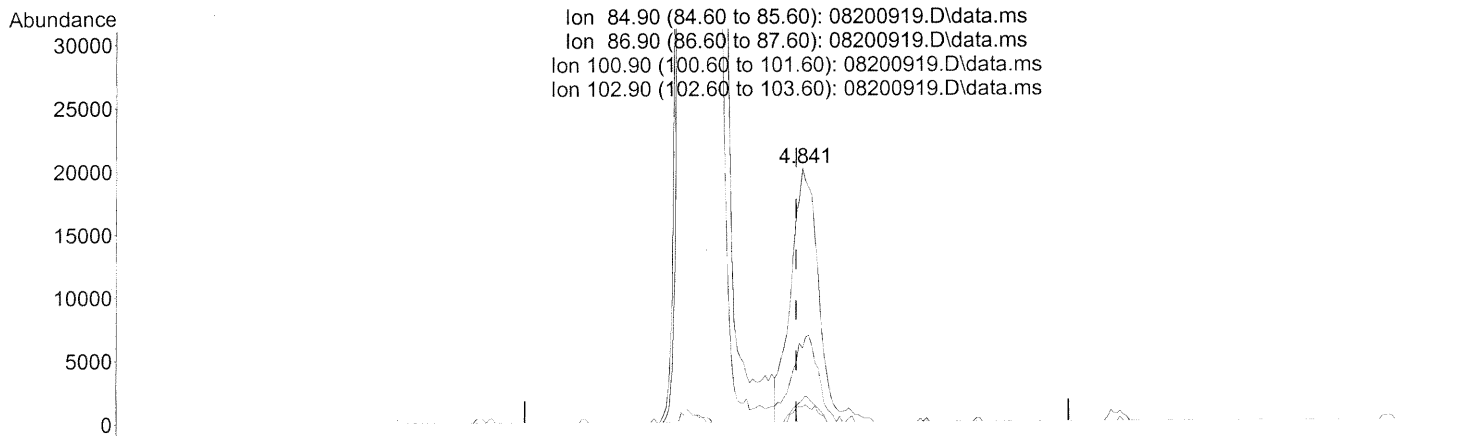
DA 8/22/09

R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.841min (+0.012) 2.69ng

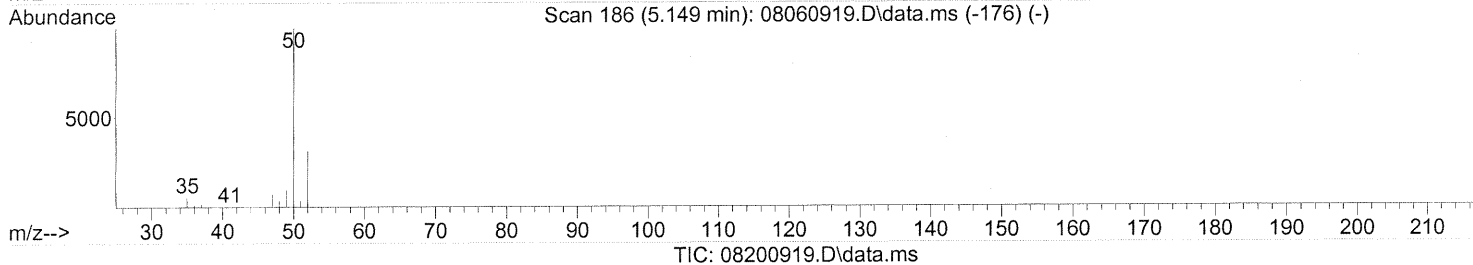
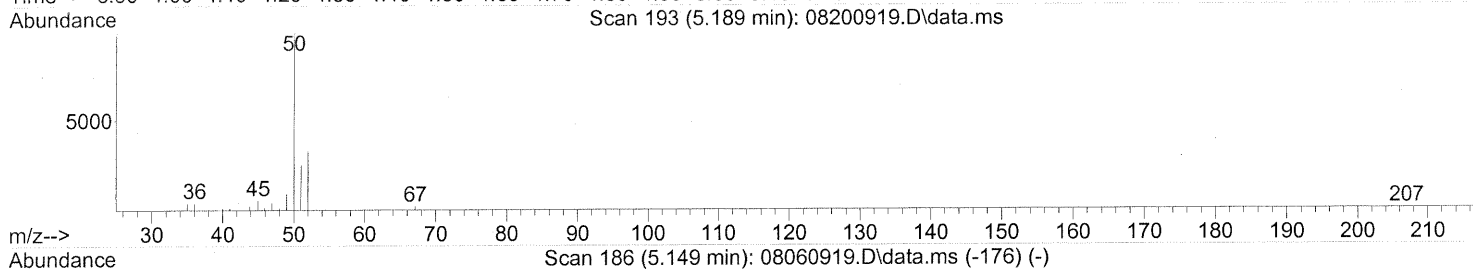
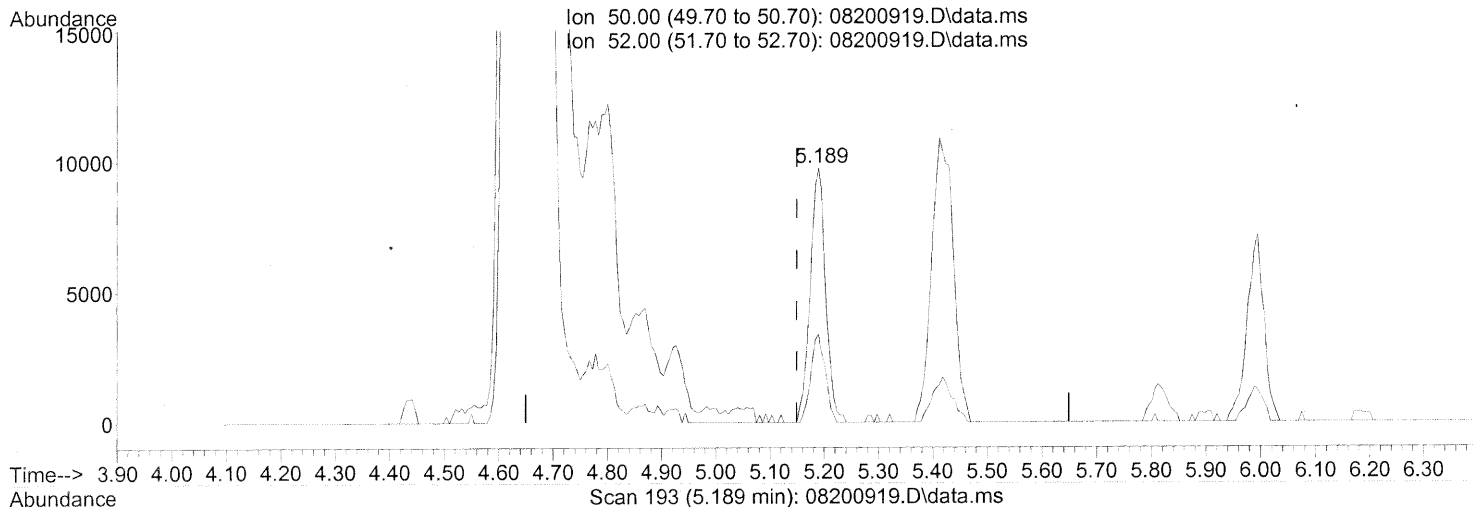
response 71178

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.10
100.90	8.80	7.58
102.90	5.20	5.29

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



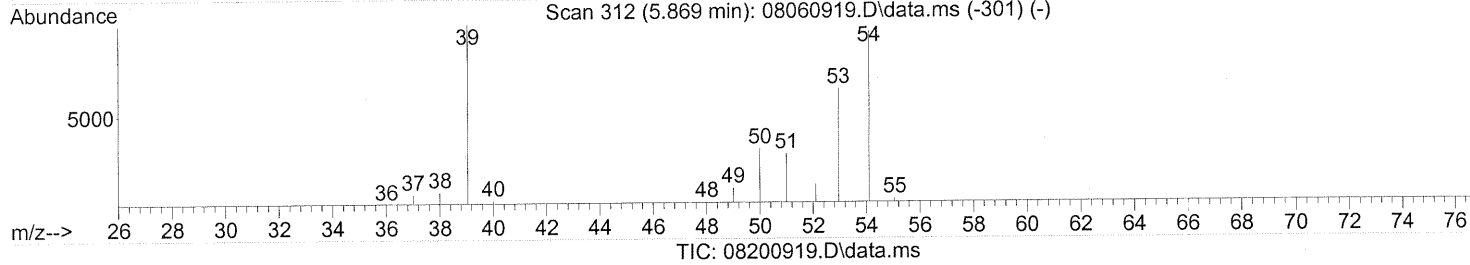
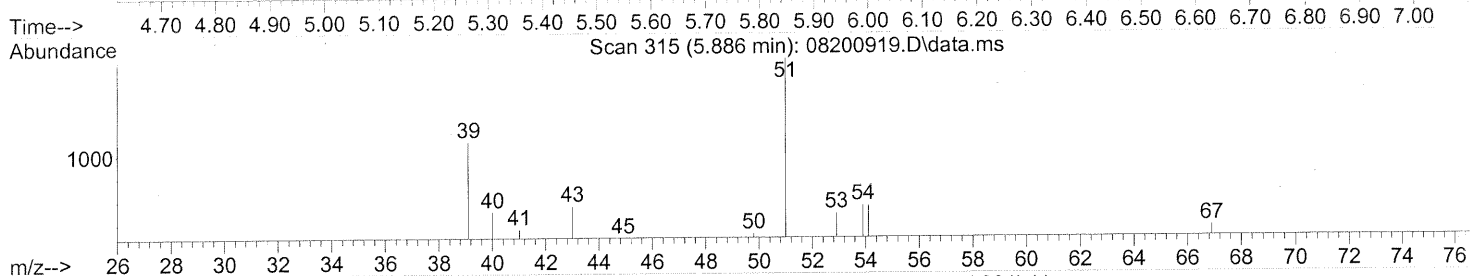
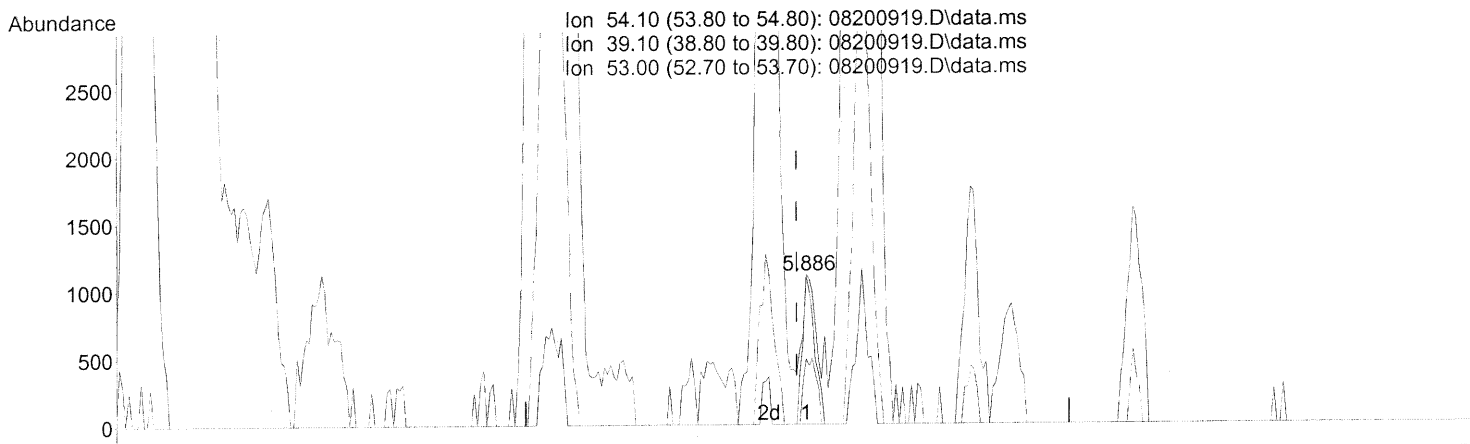
(4) Chloromethane (T)
 5.189min (+0.040) 1.10ng
 response 19461

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	32.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.886min (+0.017) 0.14ng

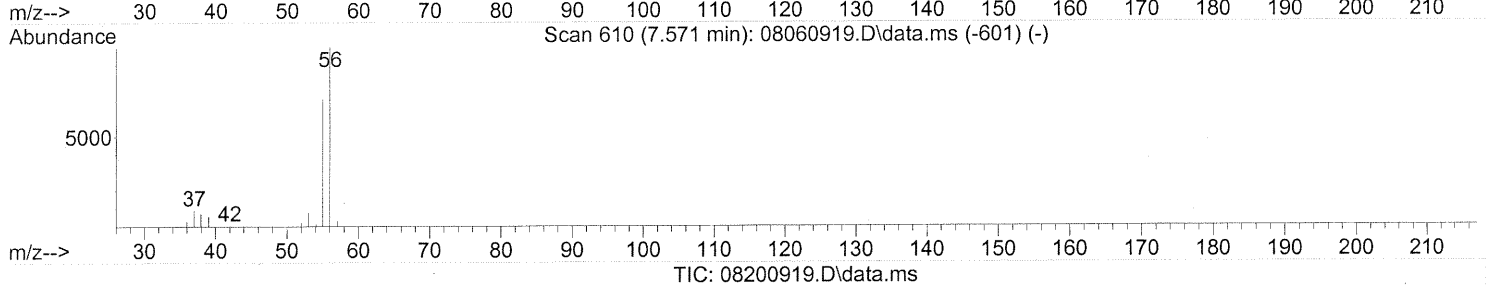
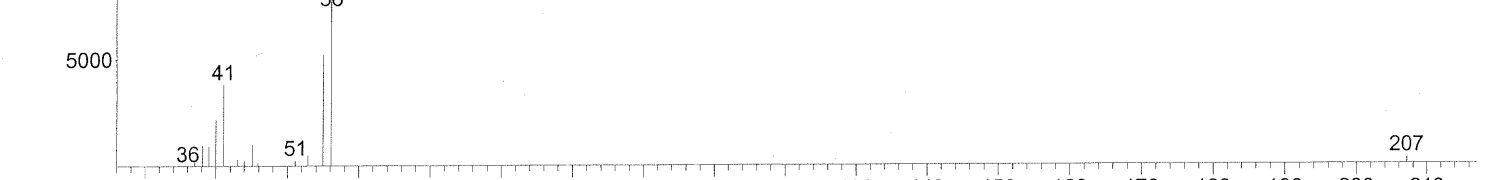
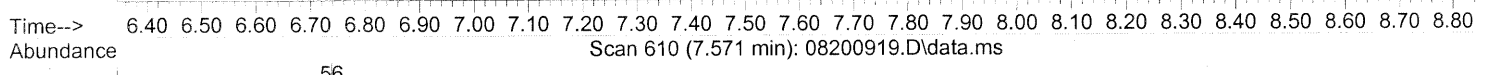
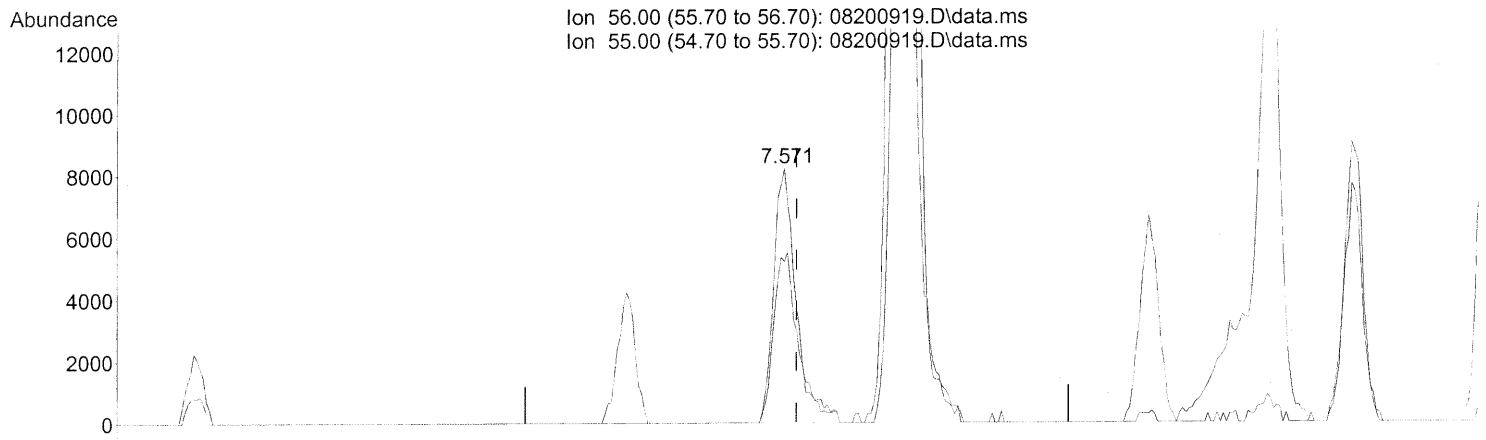
response 1706

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	138.39#
53.00	69.50	47.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 3.03ng

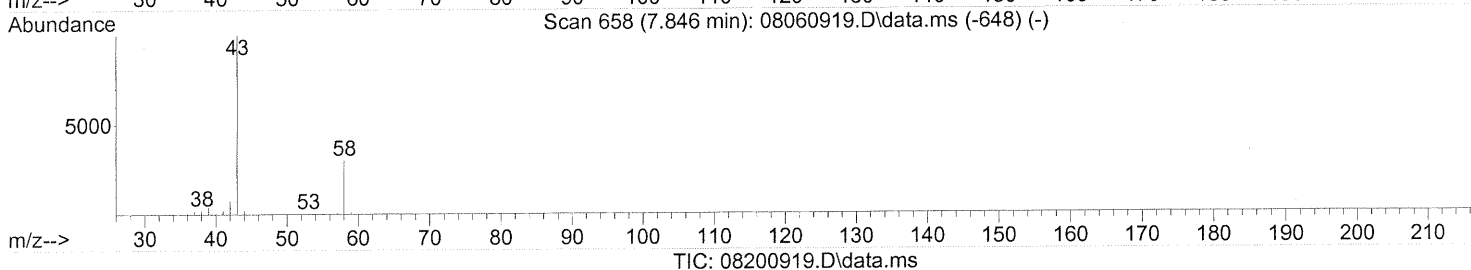
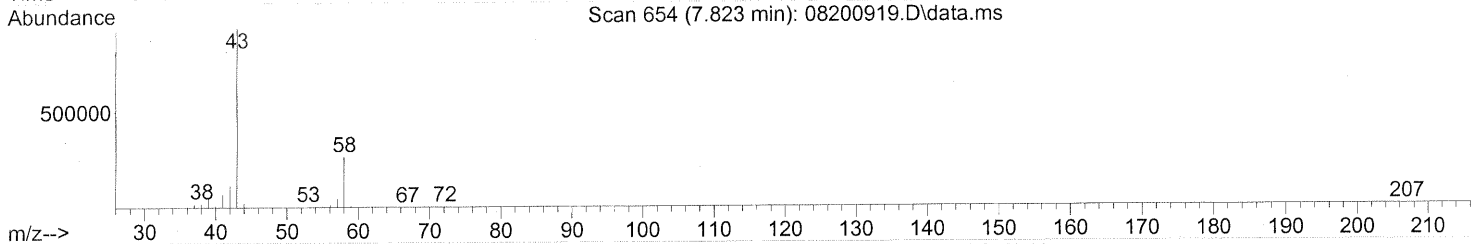
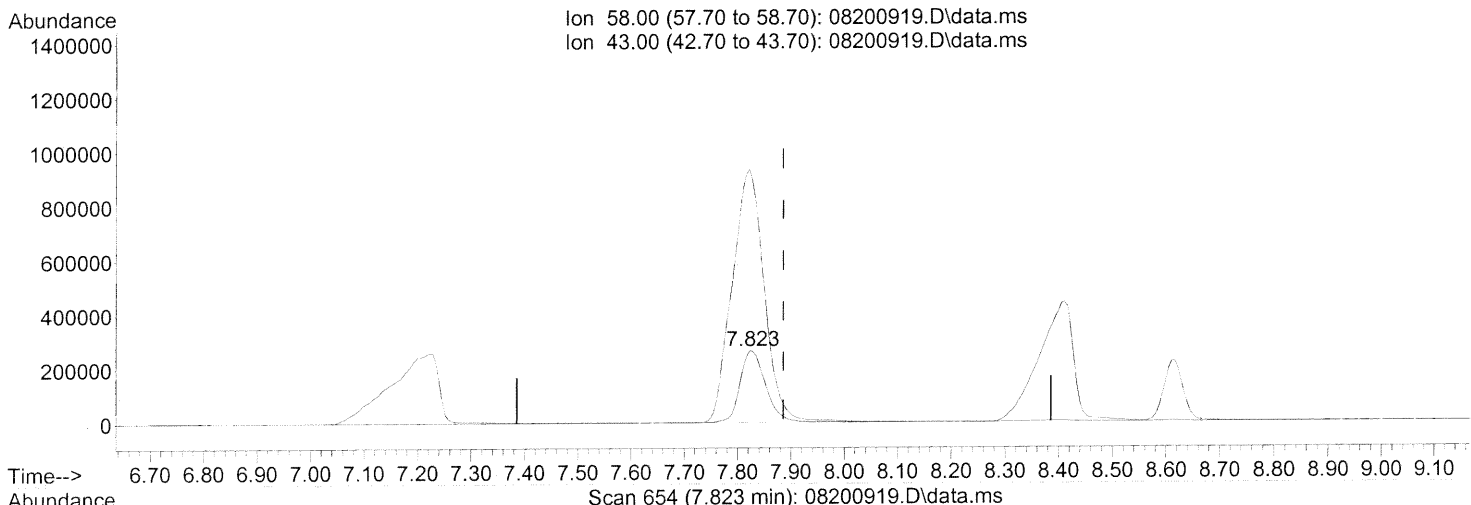
response 23647

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	74.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



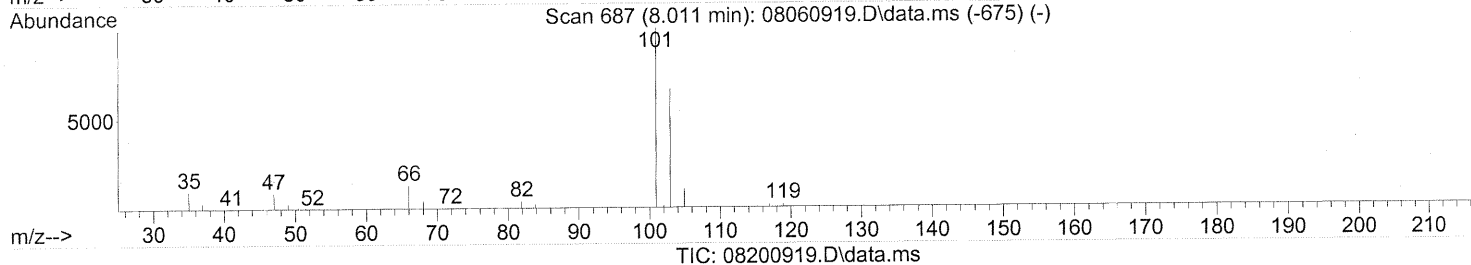
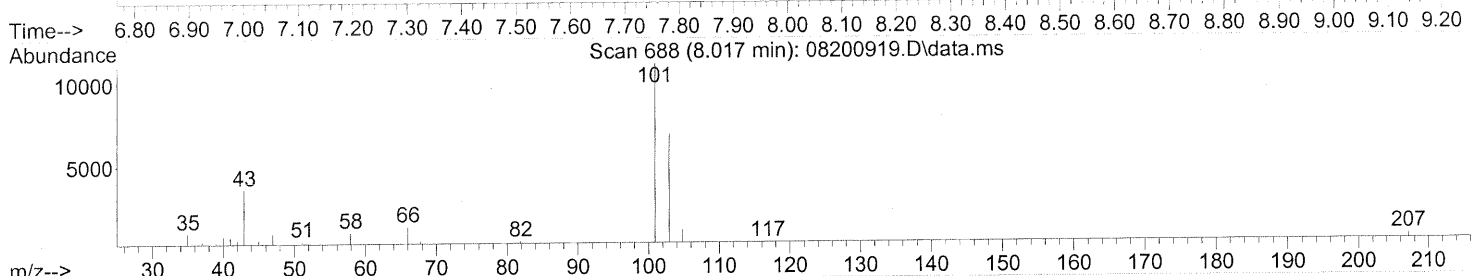
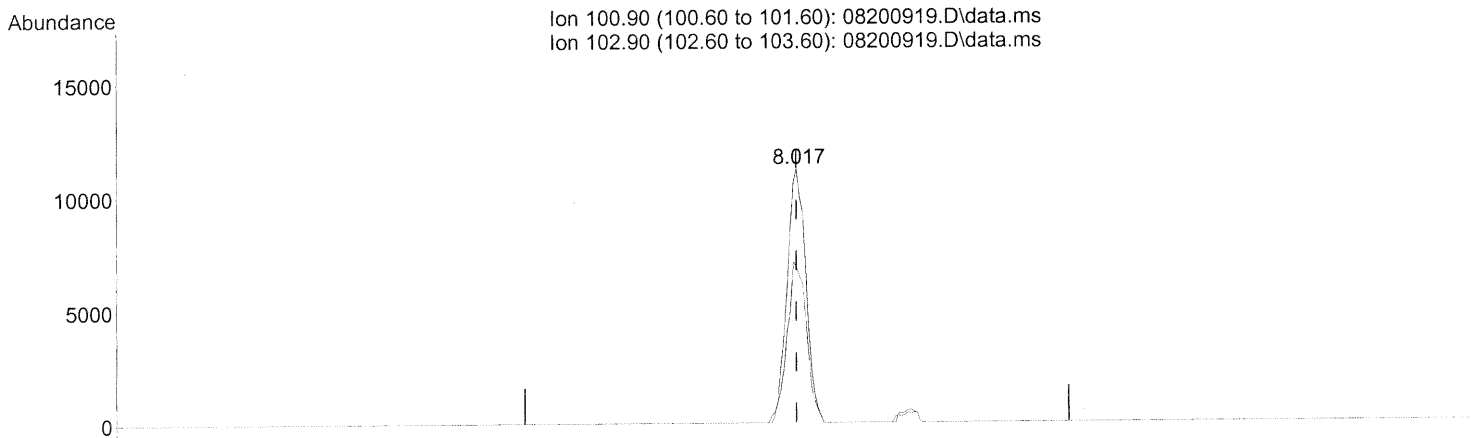
(13) Acetone (T)
7.823min (-0.063) 91.89ng
response 888813

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	439.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.017min (+0.000) 1.13ng

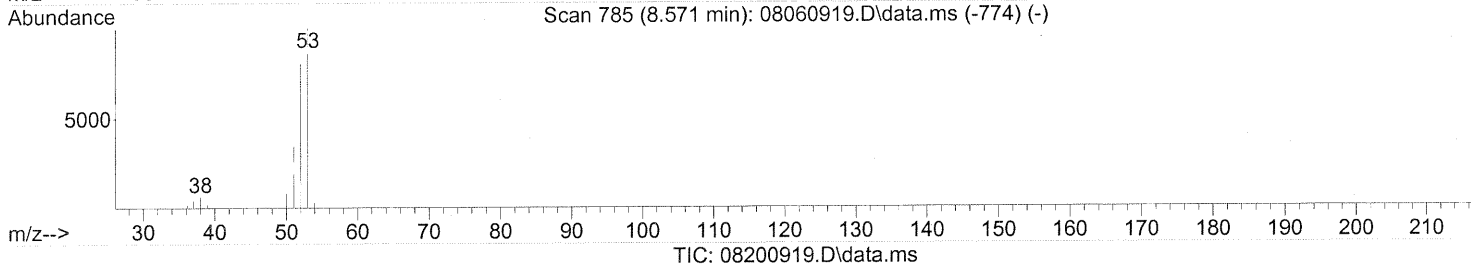
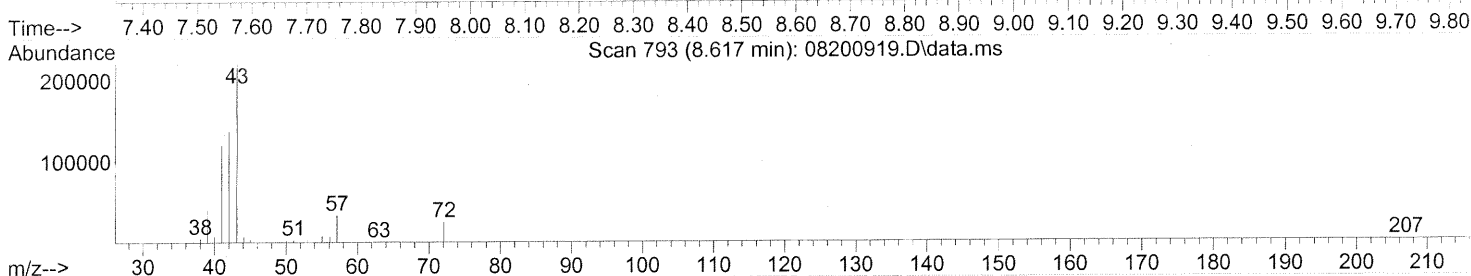
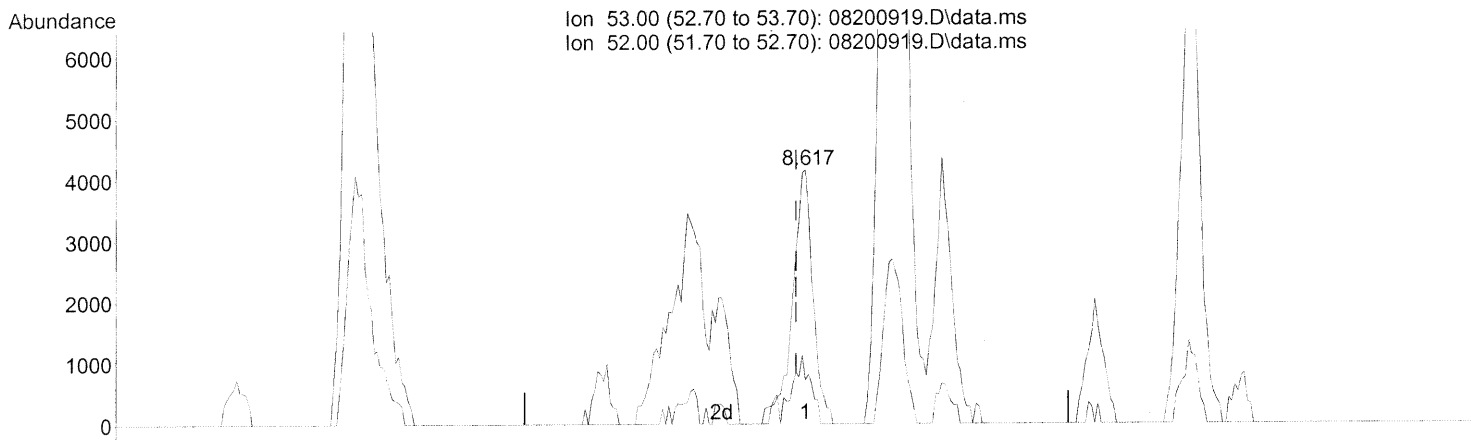
response 27101

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.617min (+0.017) 0.63ng
 response 10947

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	23.59#
0.00	0.00	0.00
0.00	0.00	0.00

TP

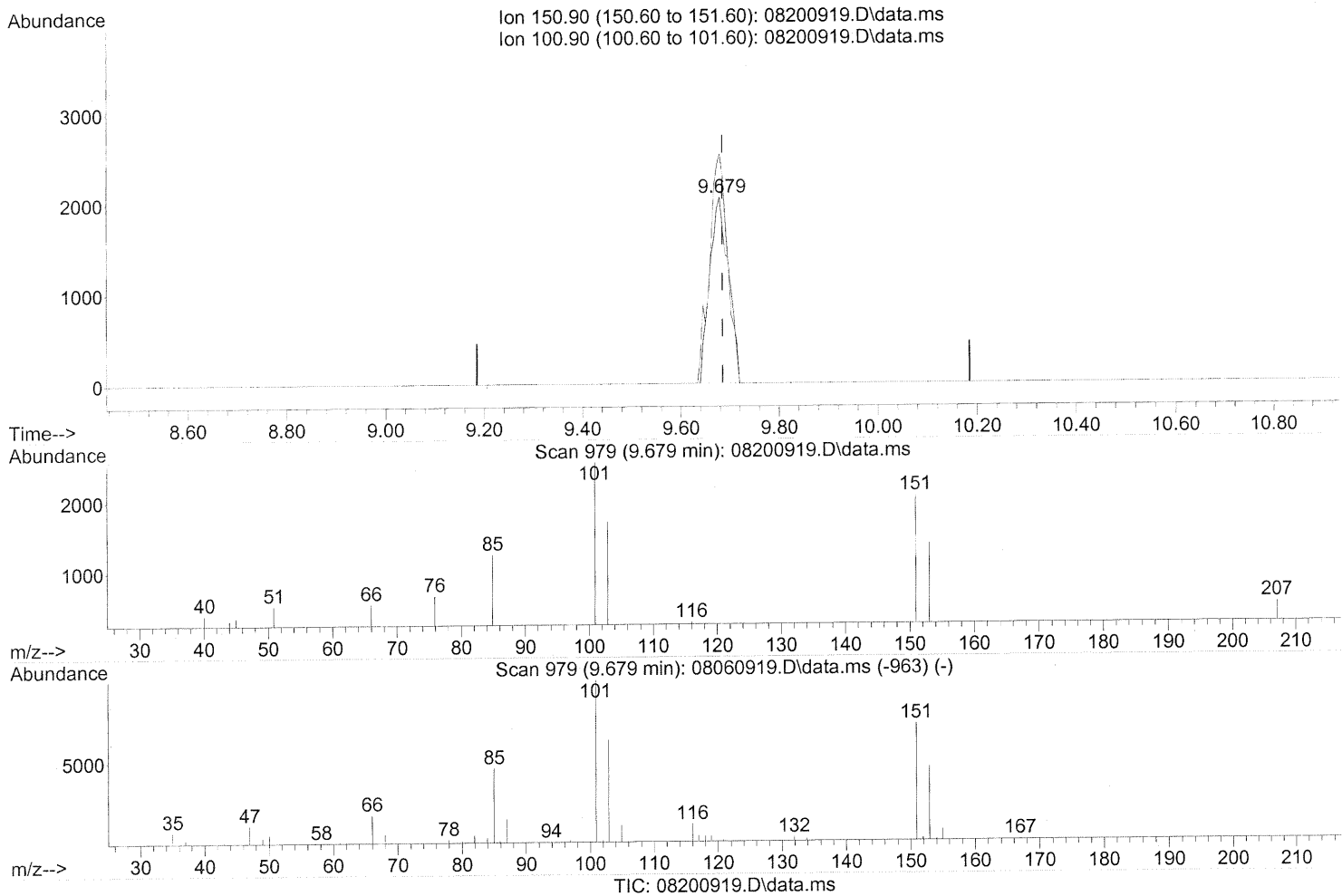
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.61ng

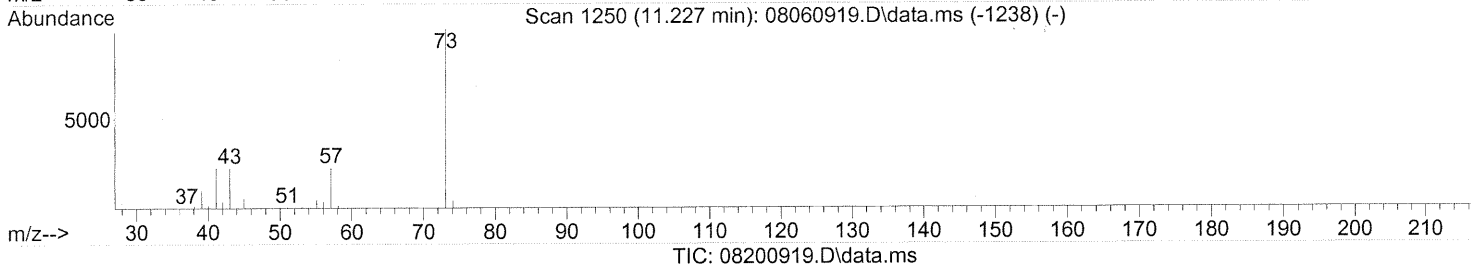
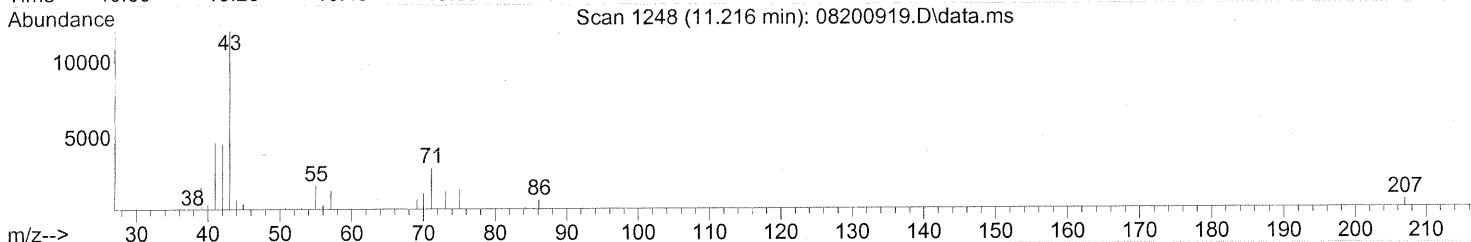
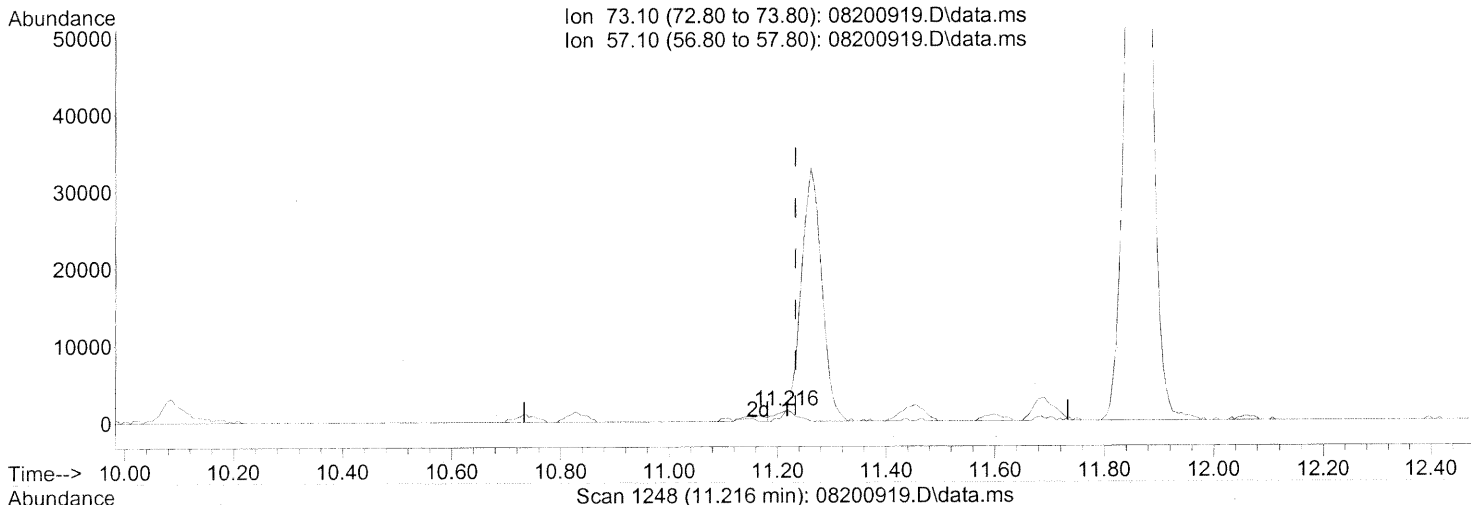
response 5341

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	123.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.216min (-0.017) 0.10ng

response 3596

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

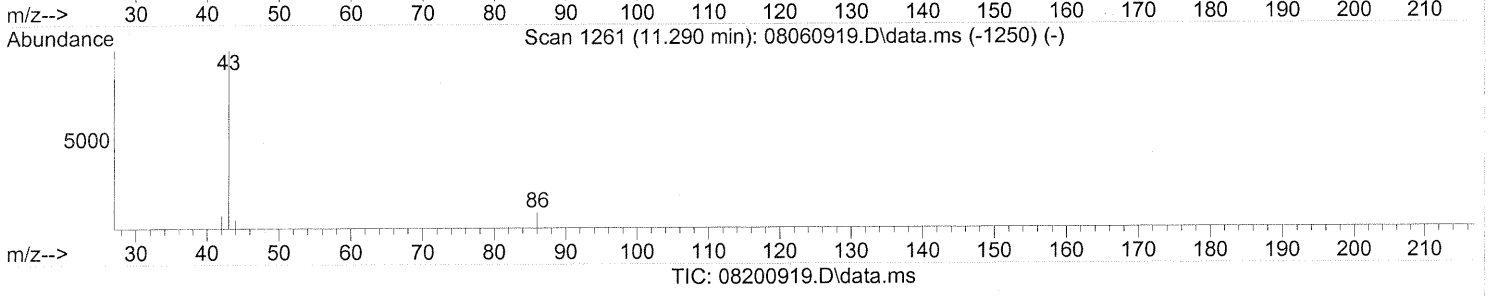
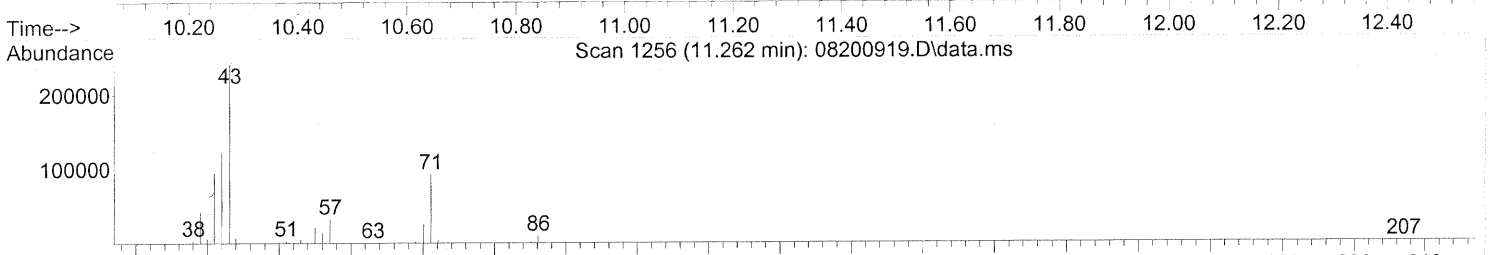
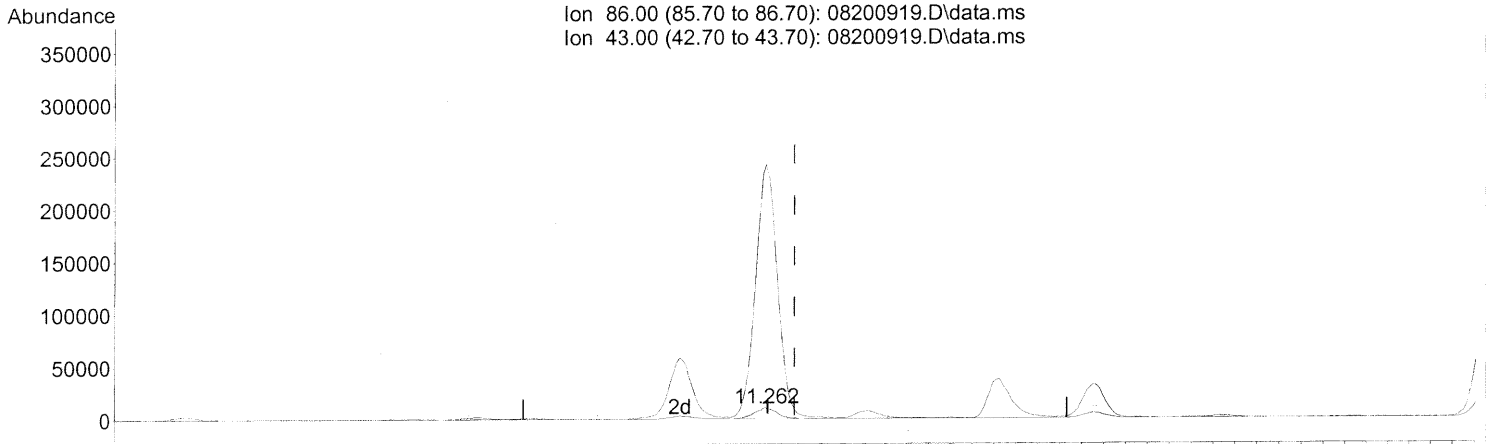
PT 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.262min (-0.051) 14.35ng
 response 28247

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	2413.71#
0.00	0.00	0.00
0.00	0.00	0.00

FP

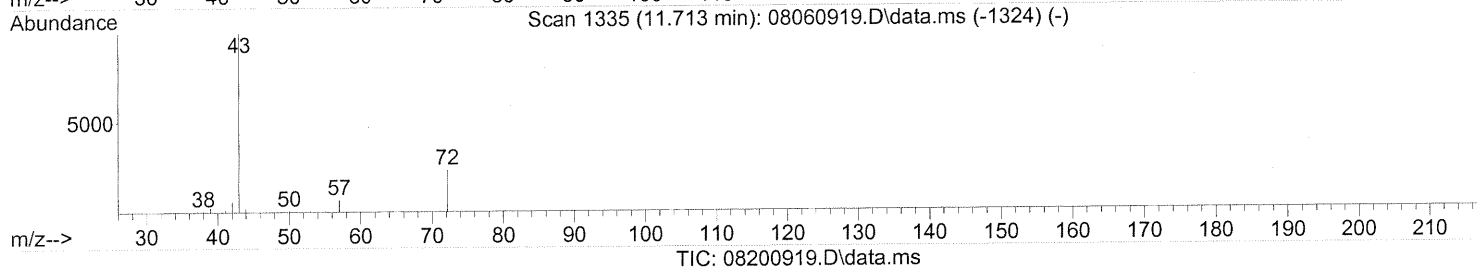
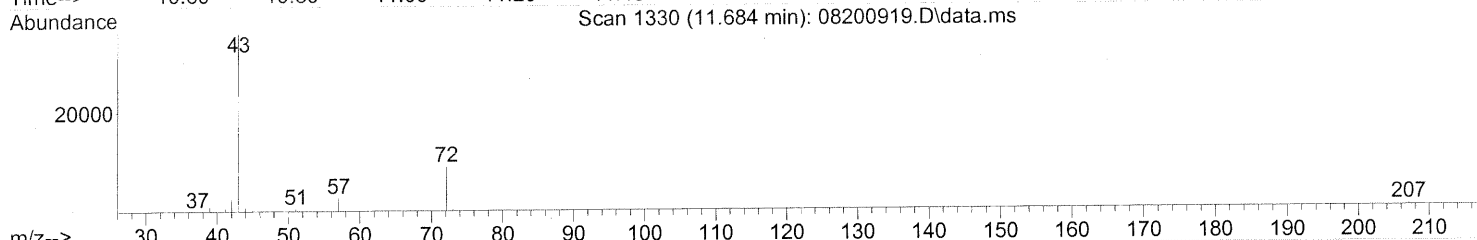
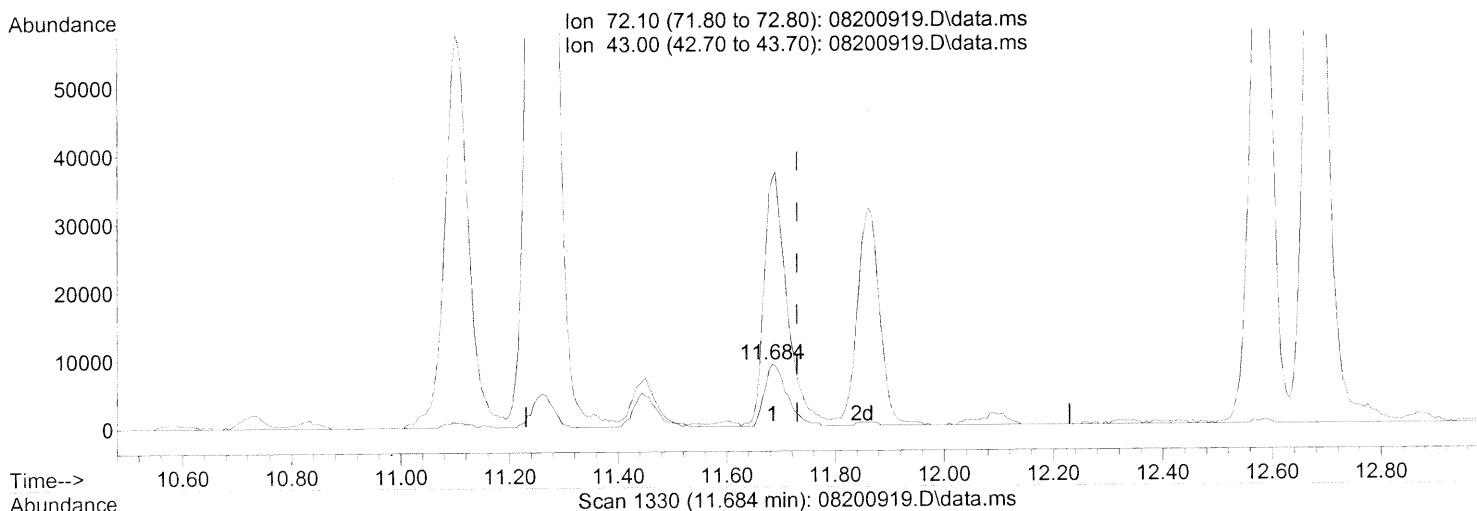
DA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.684min (-0.046) 3.01ng

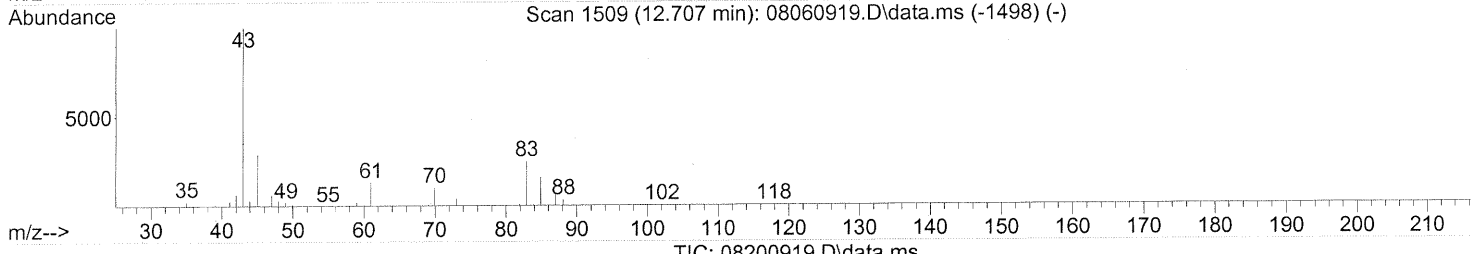
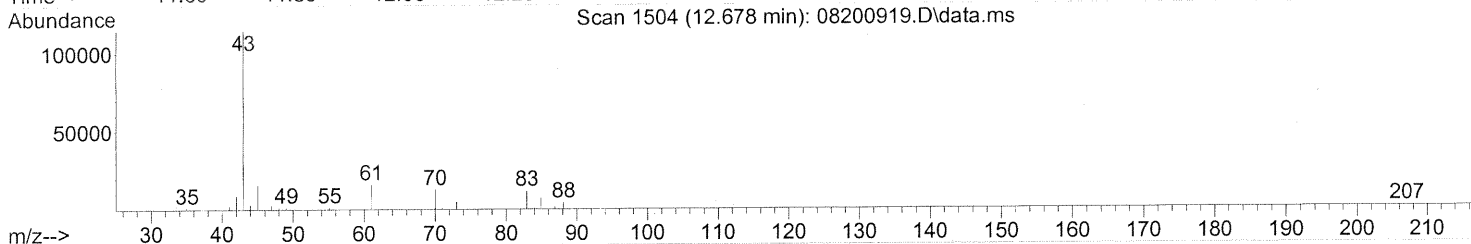
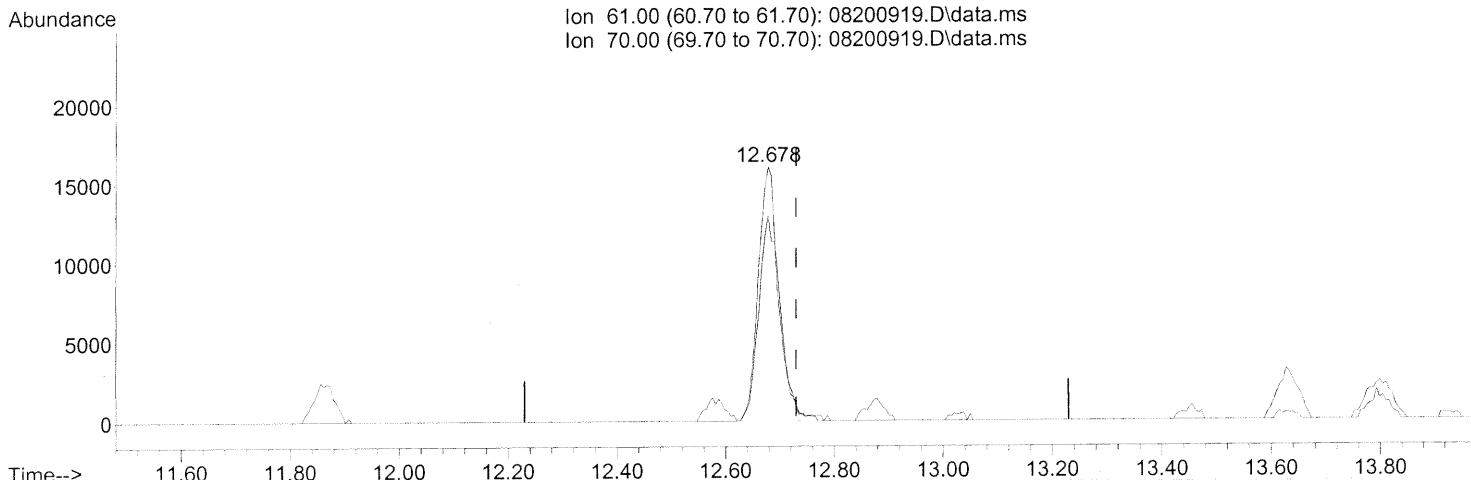
response 26246

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	420.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



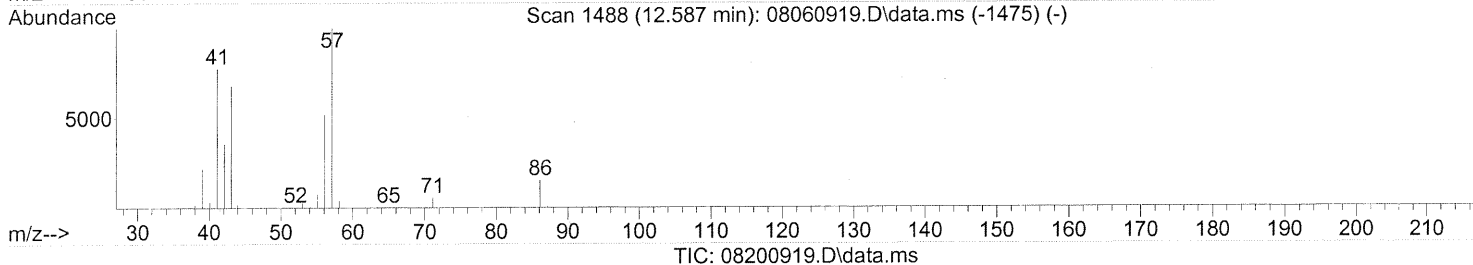
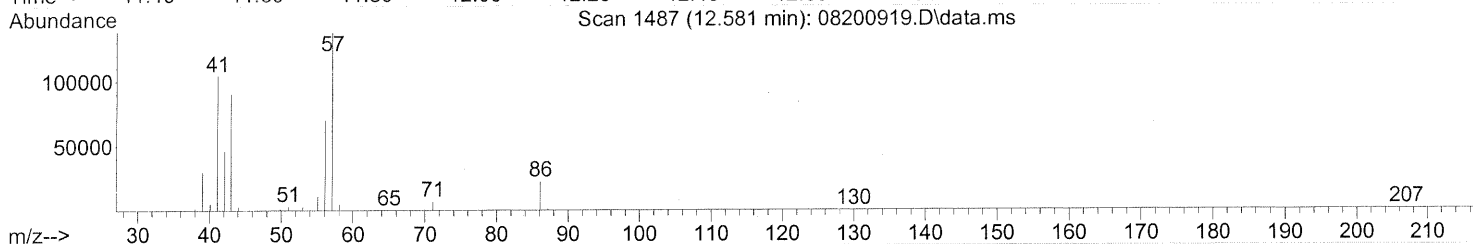
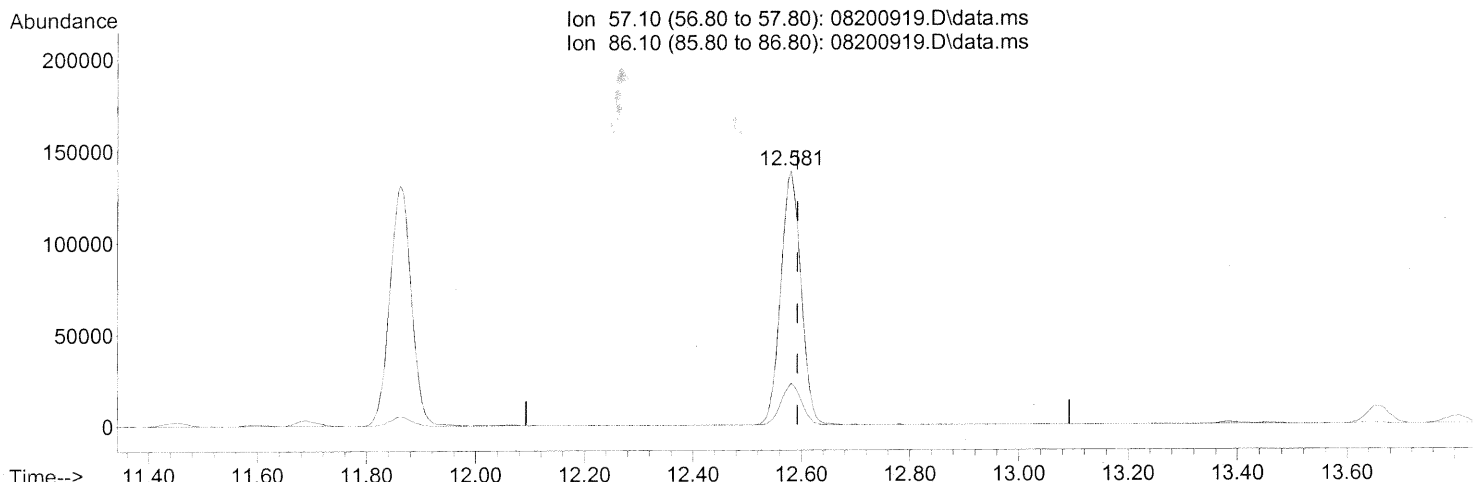
(30) Ethyl Acetate (T)
12.678min (-0.051) 9.36ng
response 42599

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	82.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



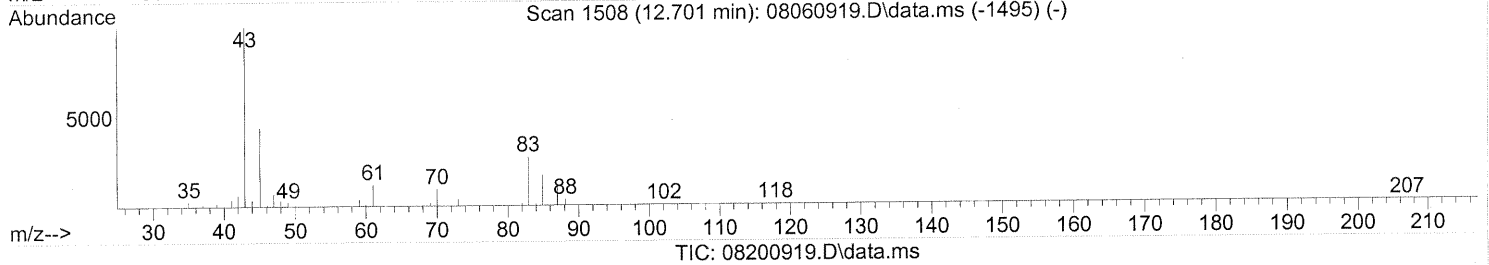
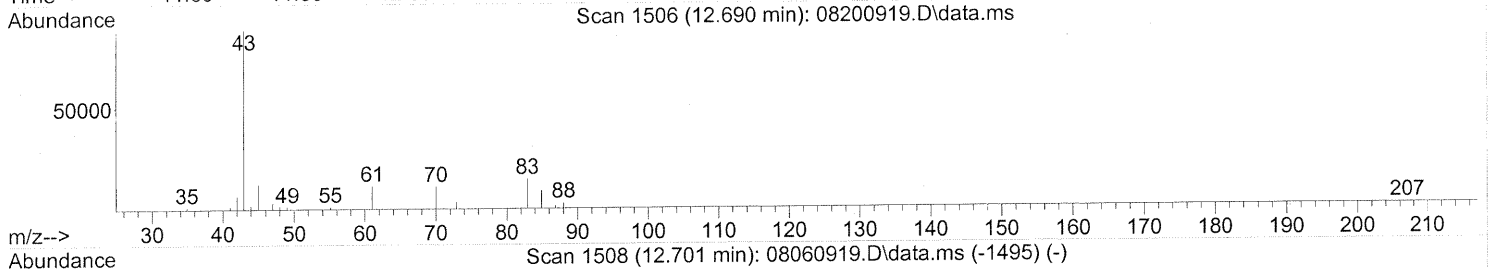
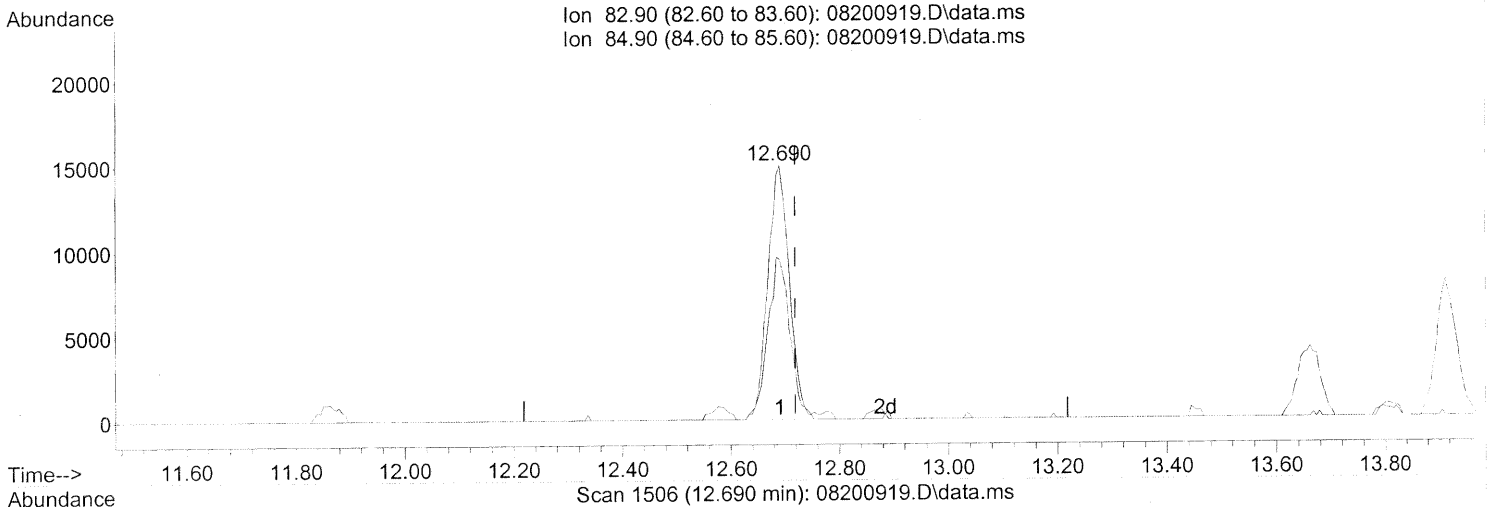
(31) n-Hexane (T)
 12.581min (-0.011) 15.38ng
 response 358031

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



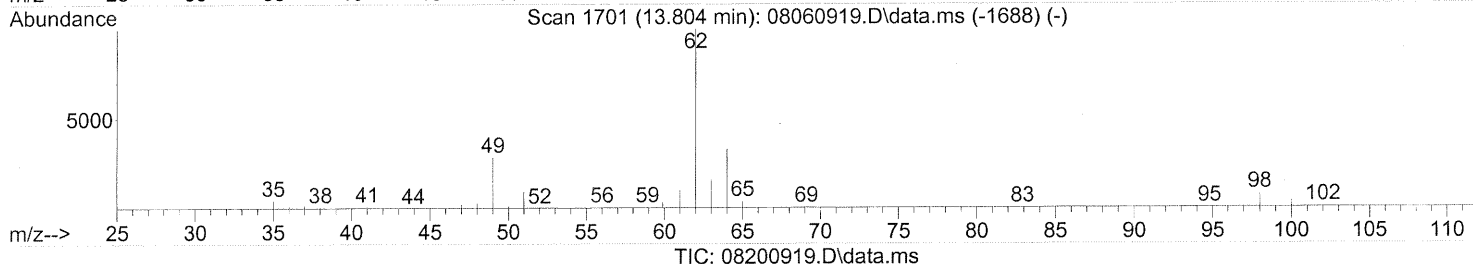
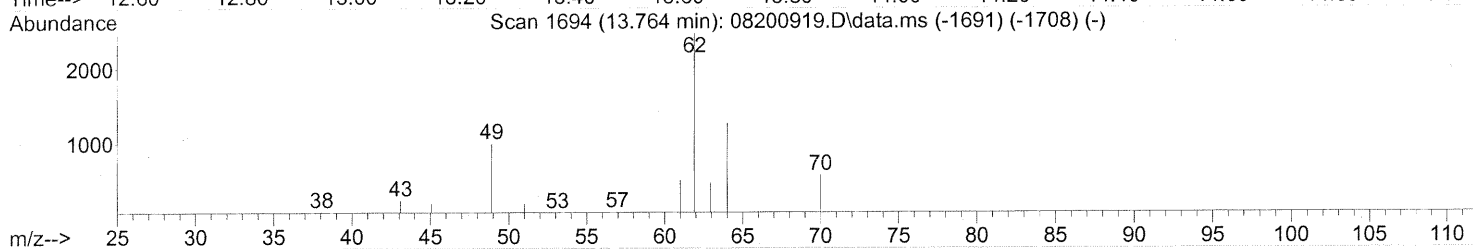
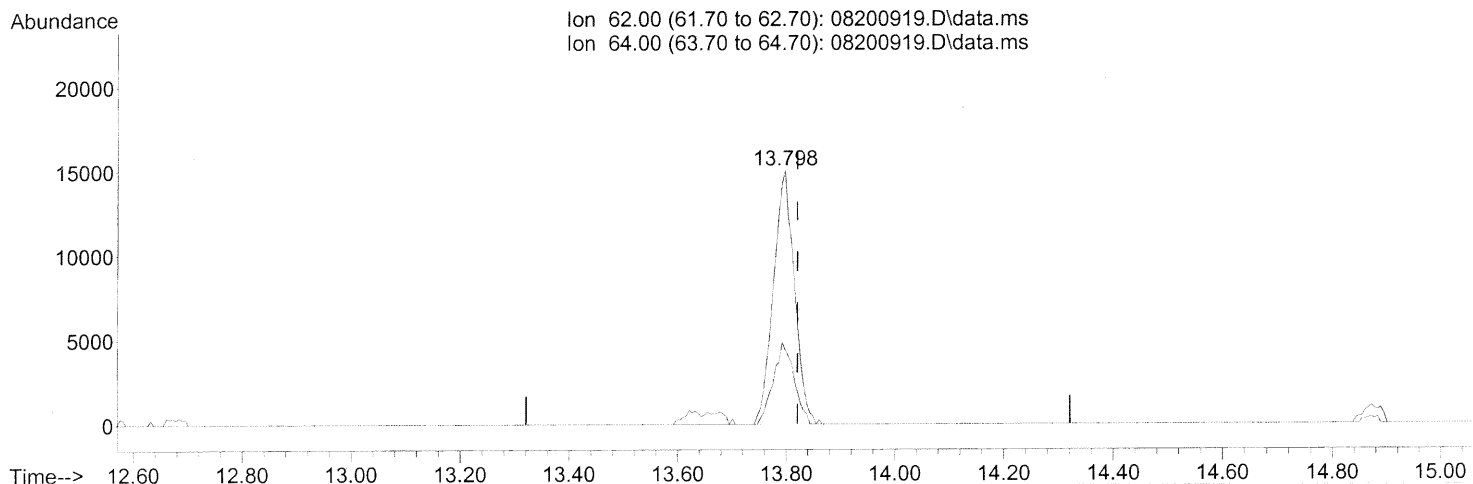
(32) Chloroform (T)
12.690min (-0.028) 2.01ng
response 41132

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	65.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 2.15ng

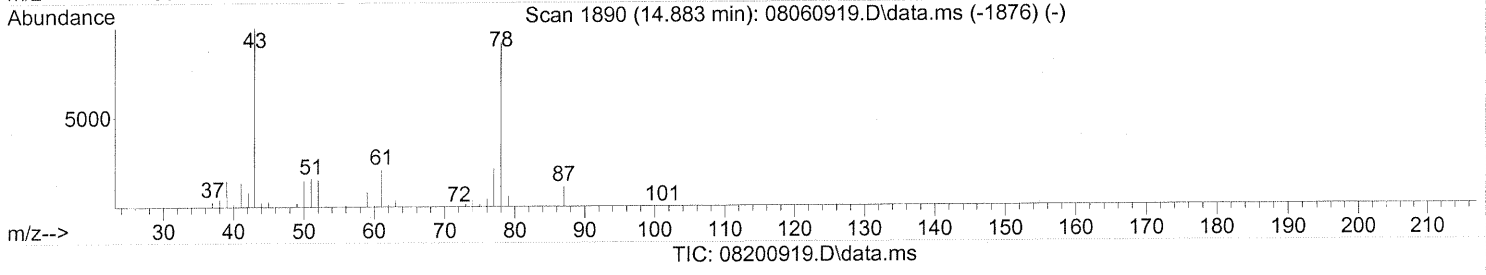
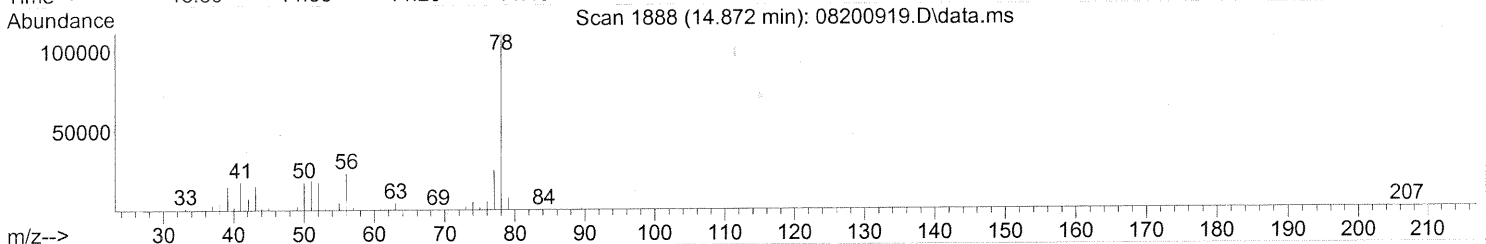
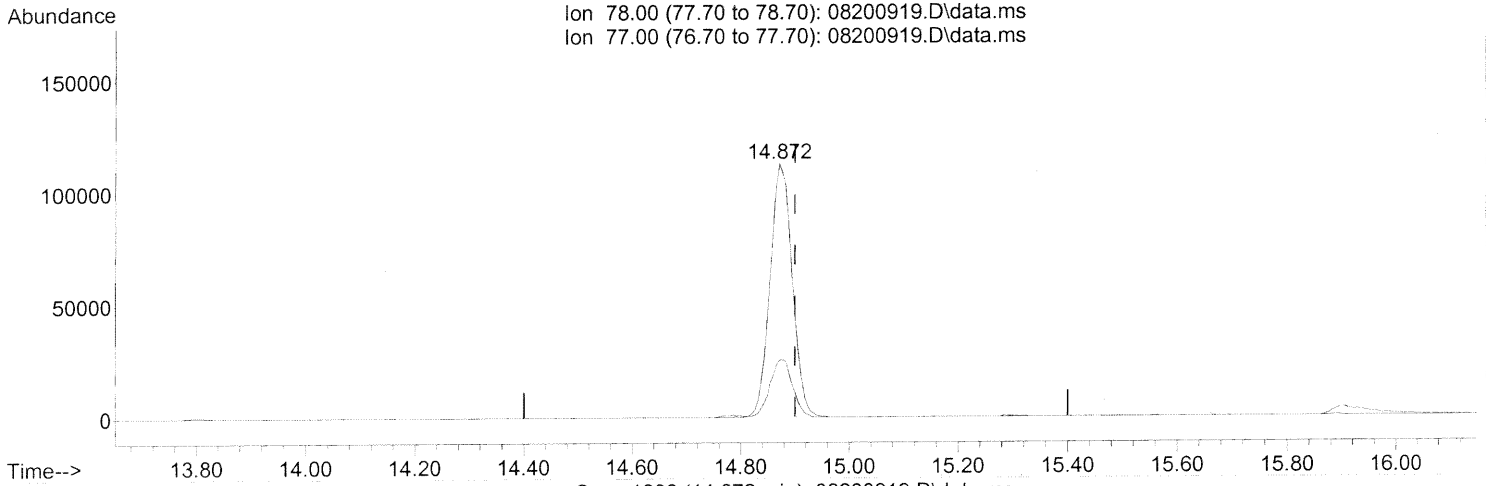
response 40268

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.028) 6.09ng

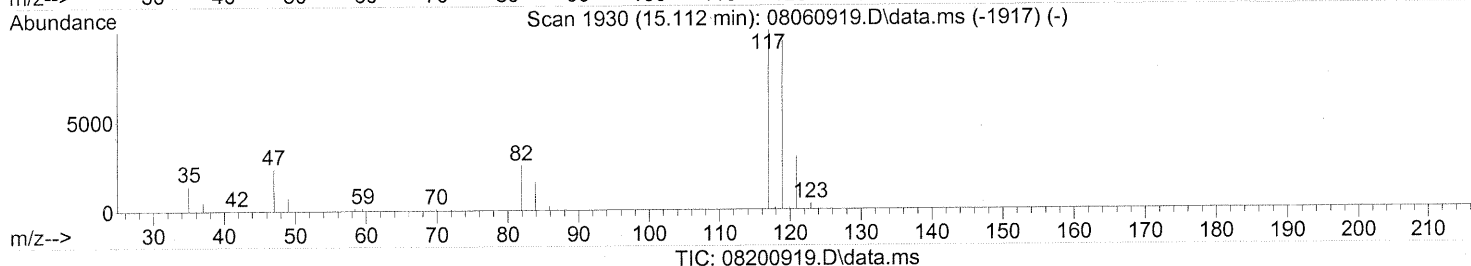
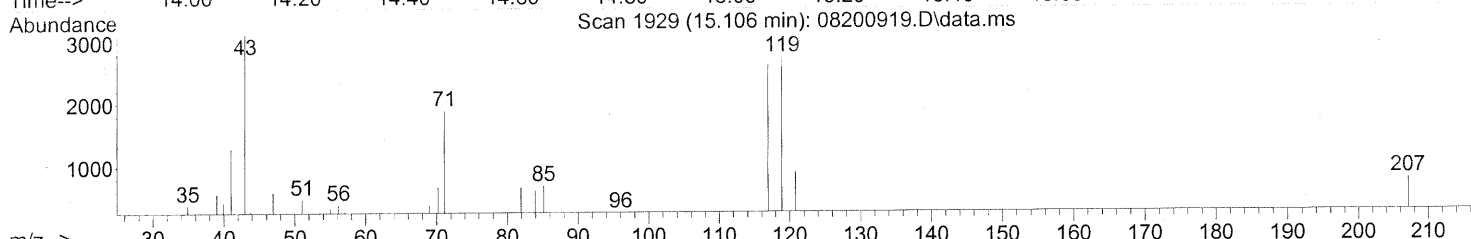
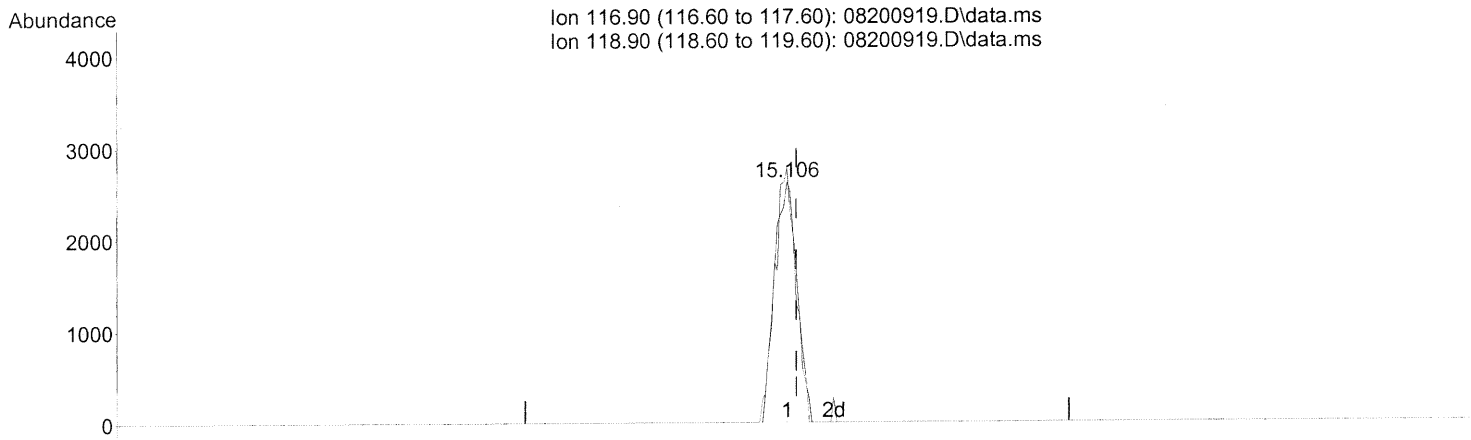
response 320288

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.45ng

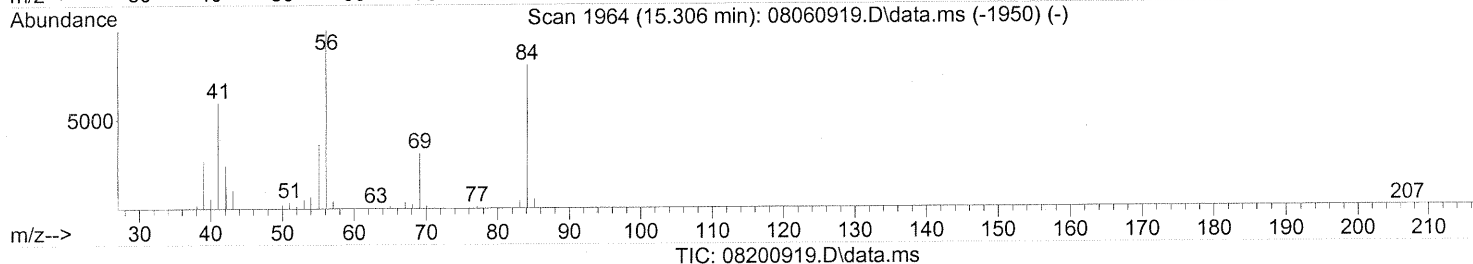
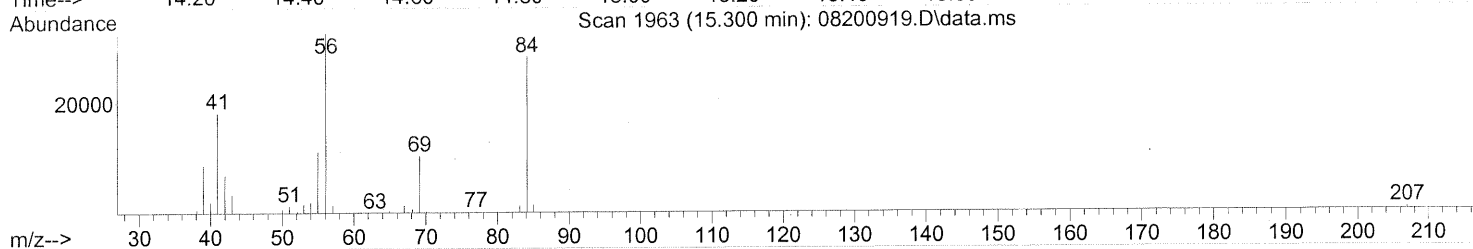
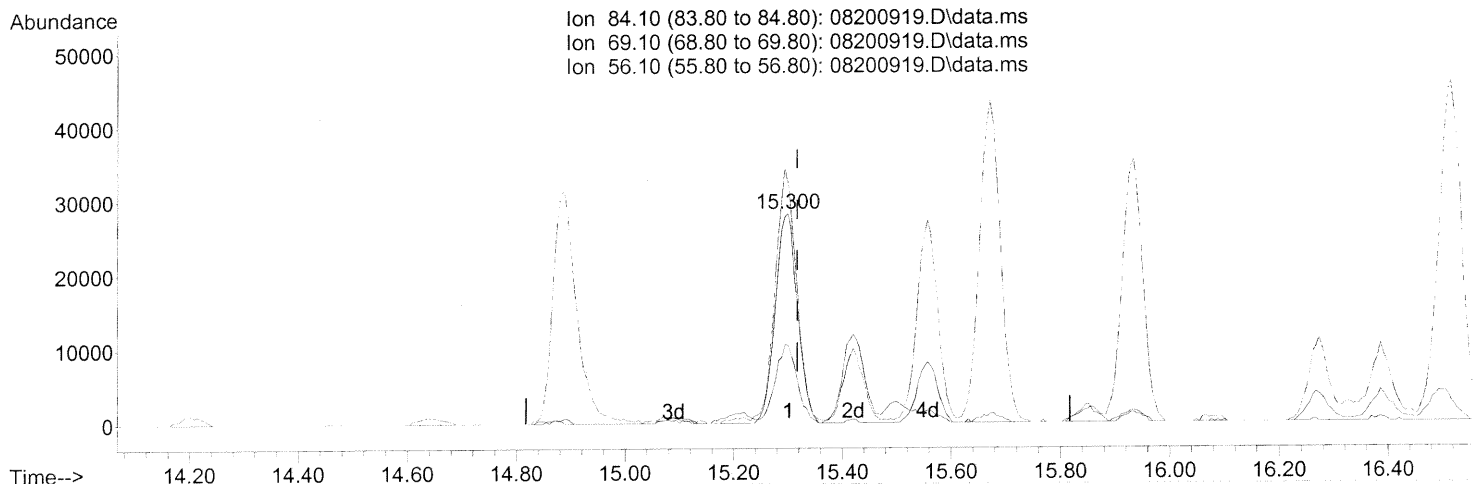
response 7507

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	100.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
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Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



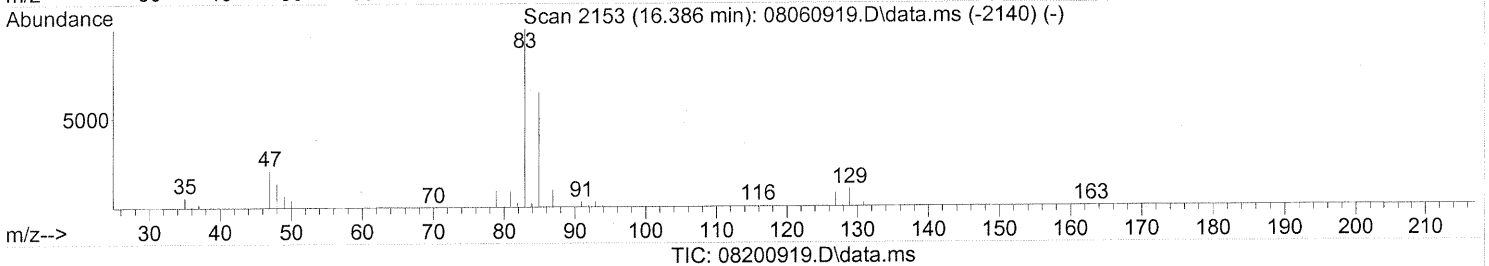
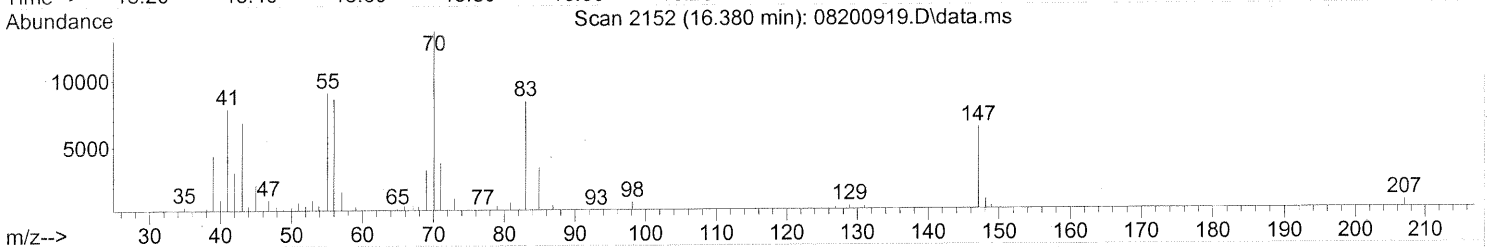
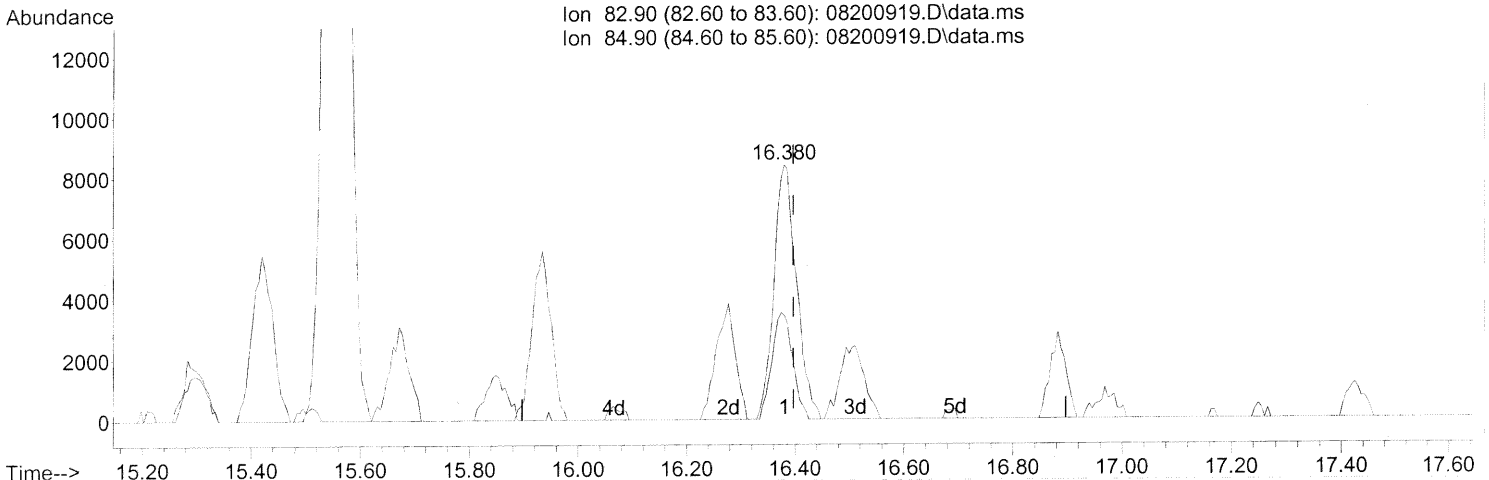
(43) Cyclohexane (T)
 15.300min (-0.017) 4.13ng
 response 79563

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.16
56.10	127.50	117.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 1.40ng

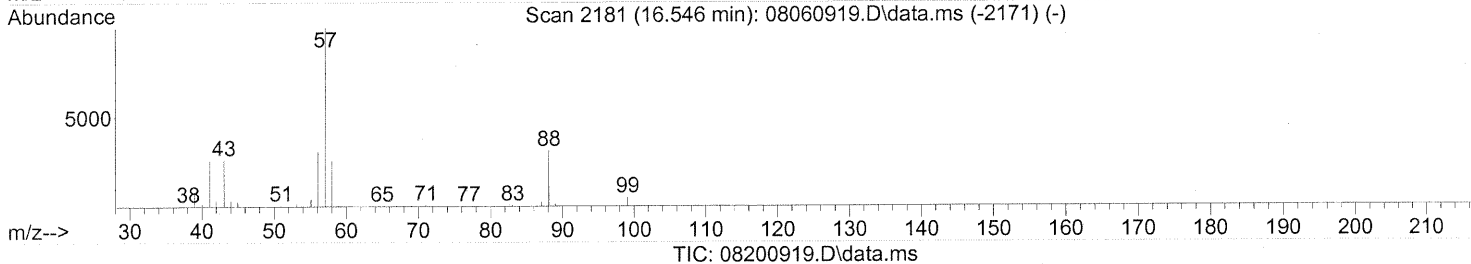
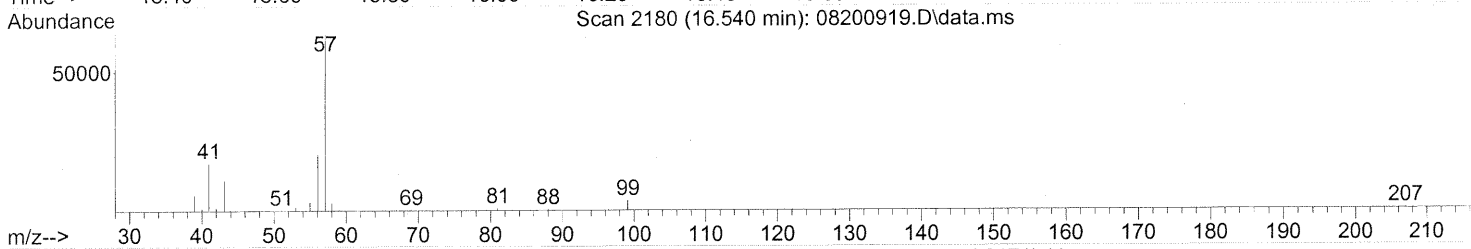
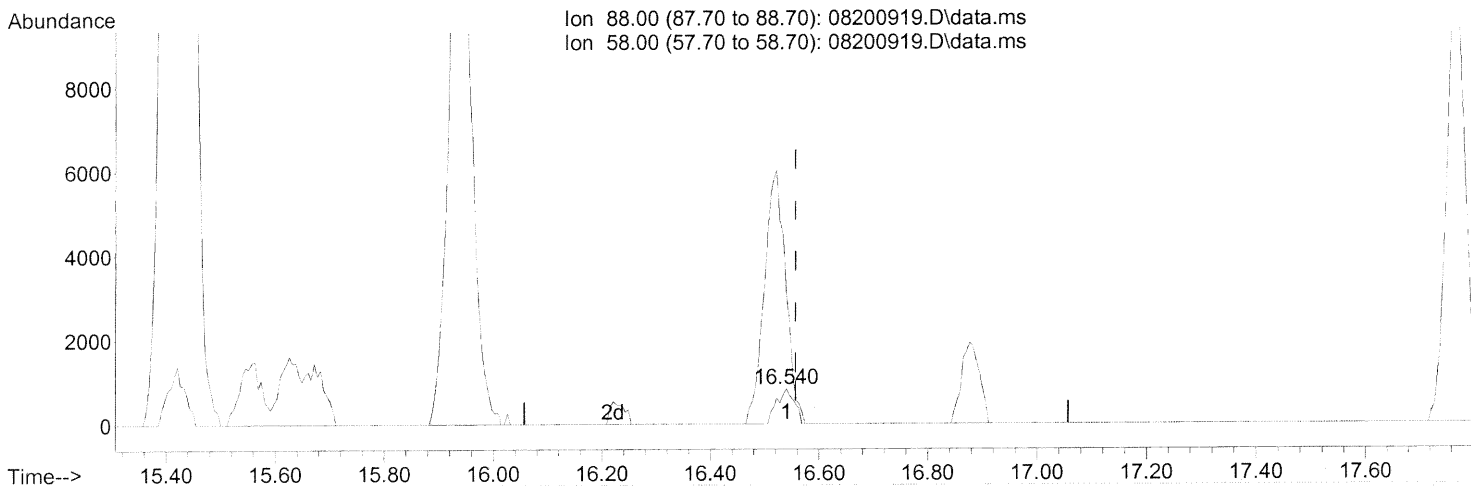
response 24241

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	38.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
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Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.540min (-0.017) 0.18ng
 response 1851

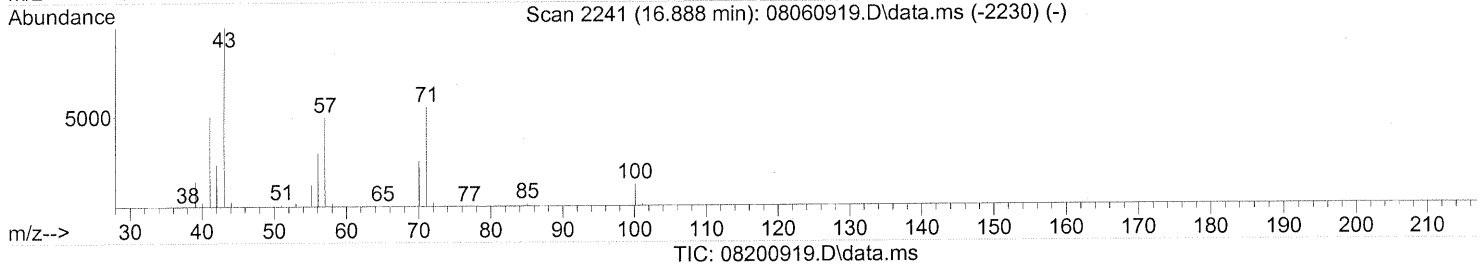
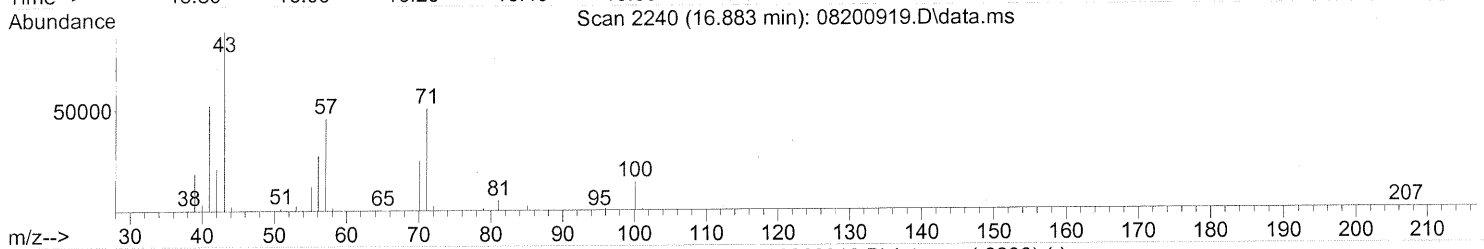
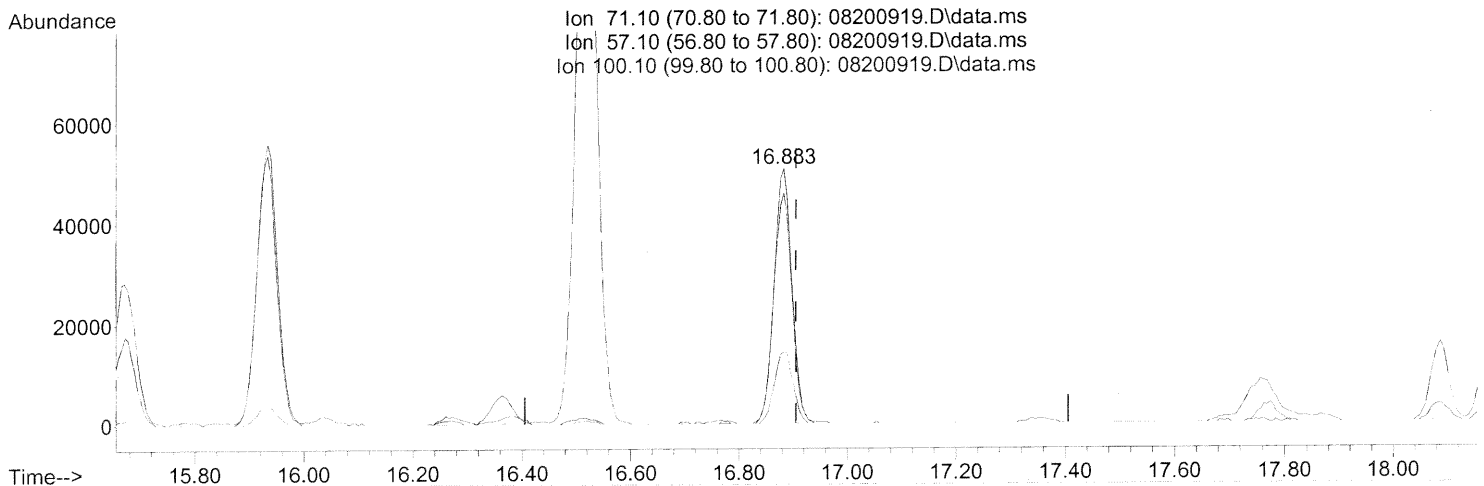
Ion	Exp%	Act%
88.00	100	100
58.00	74.80	889.03#
0.00	0.00	0.00
0.00	0.00	0.00

TP
DA 8/22/09 *E 8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.883min (-0.023) 8.29ng

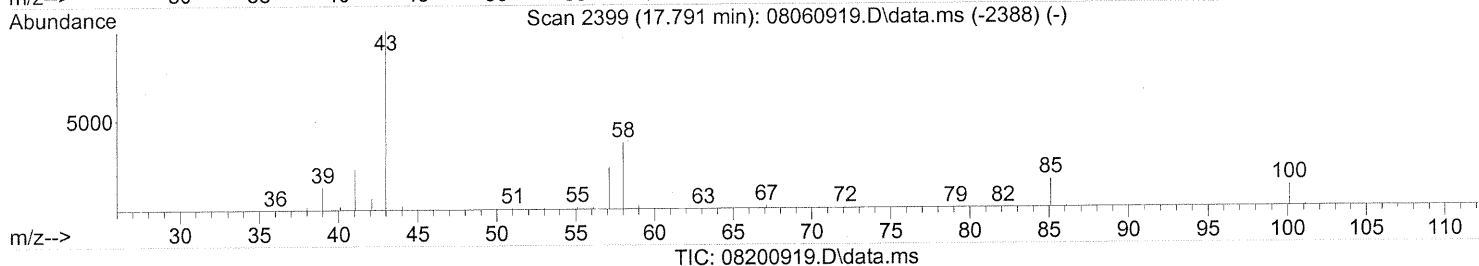
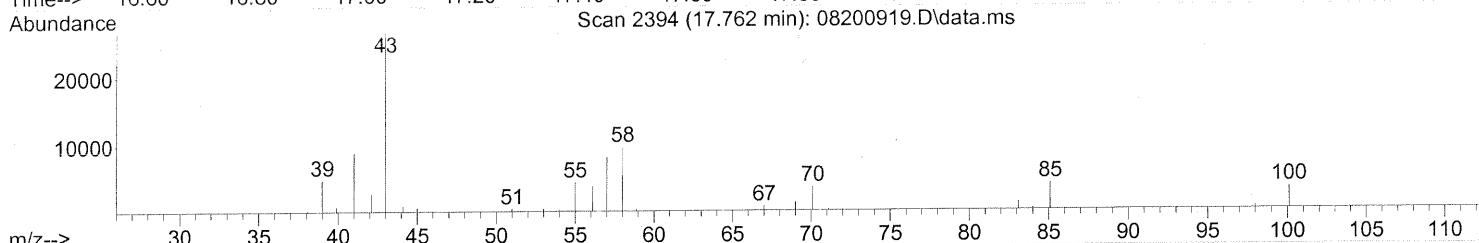
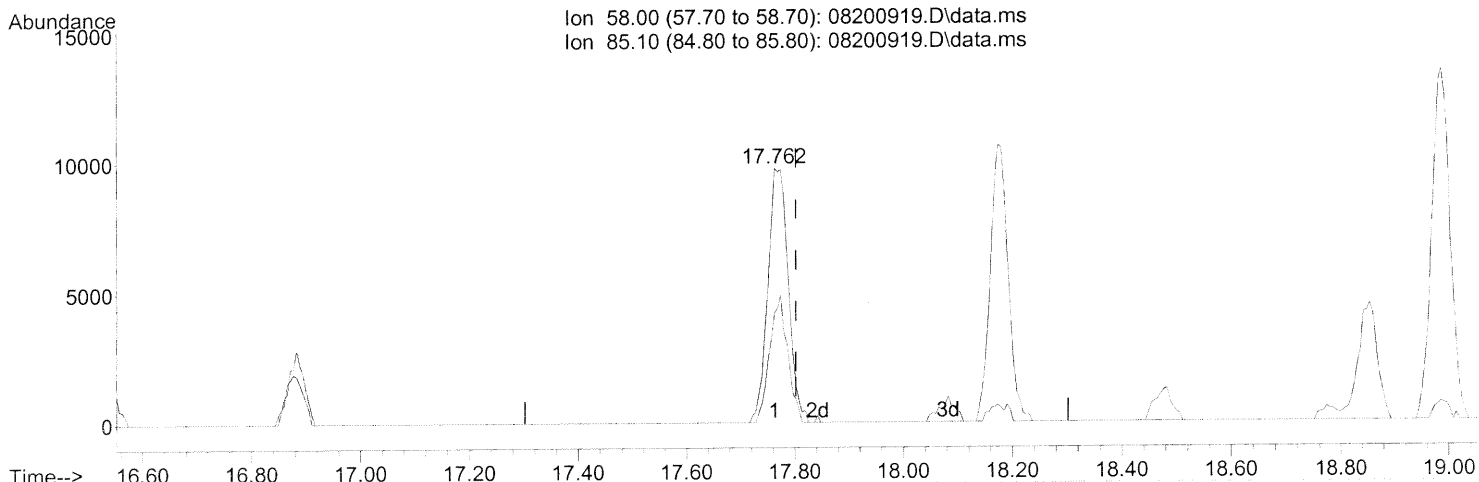
response 116895

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	91.58
100.10	26.40	29.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
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 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.762min (-0.040) 2.03ng

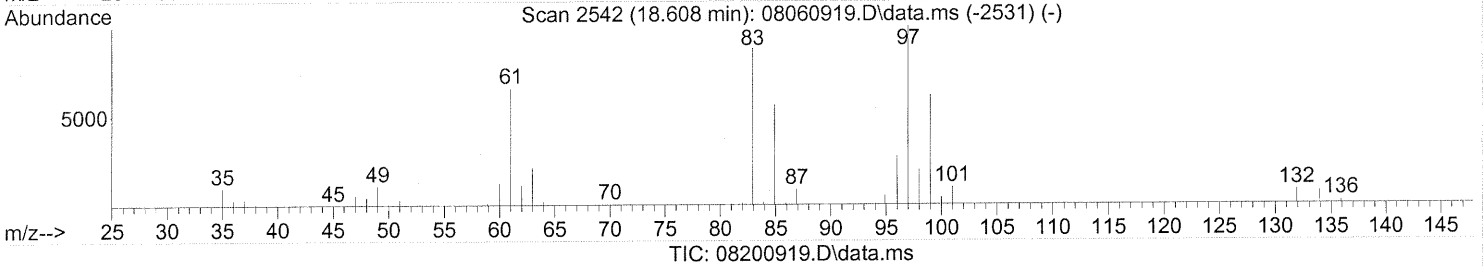
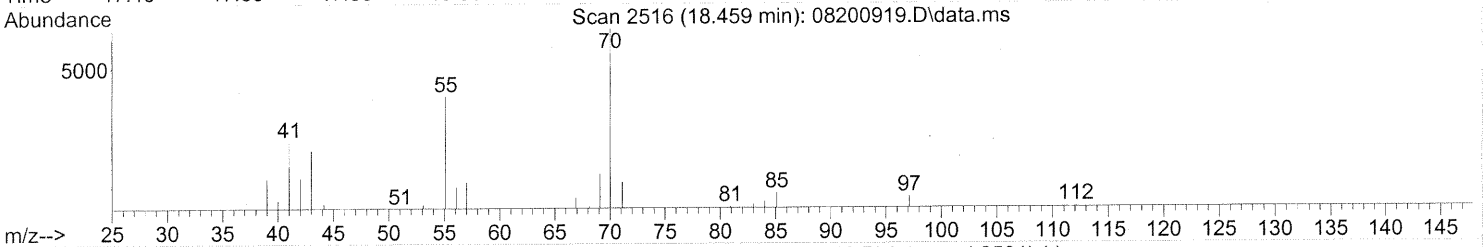
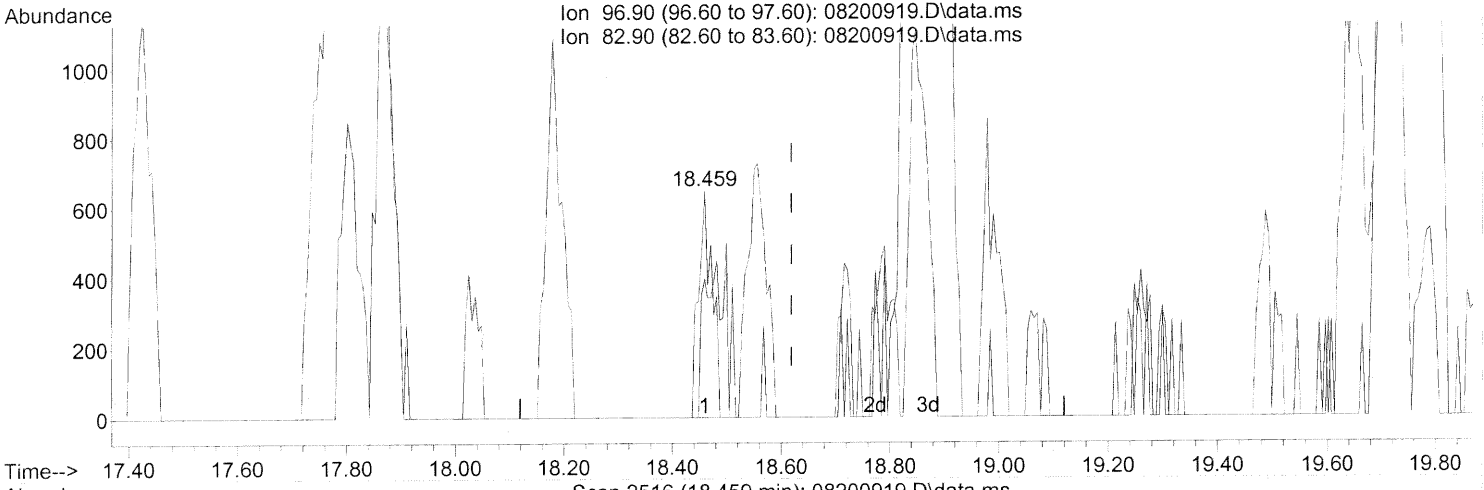
response 25601

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
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Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.459min (-0.160) 0.10ng

response 1128

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

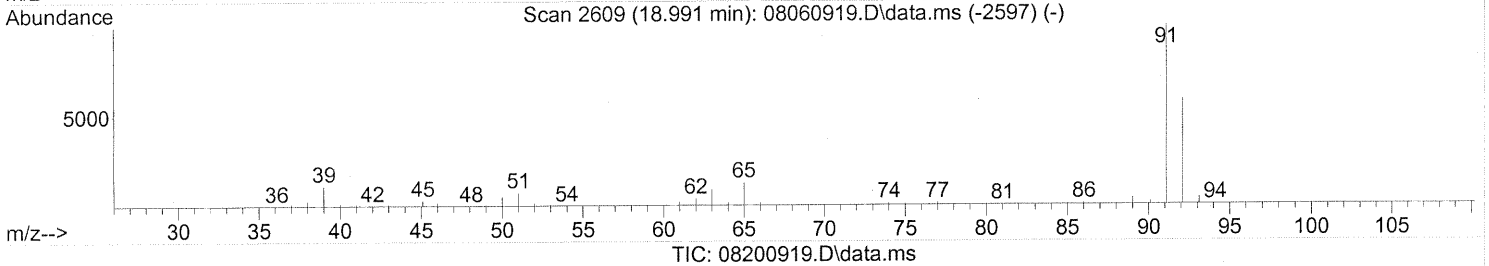
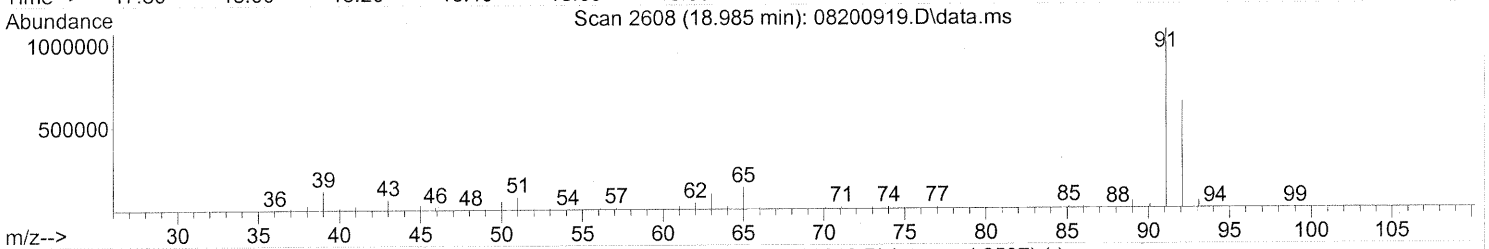
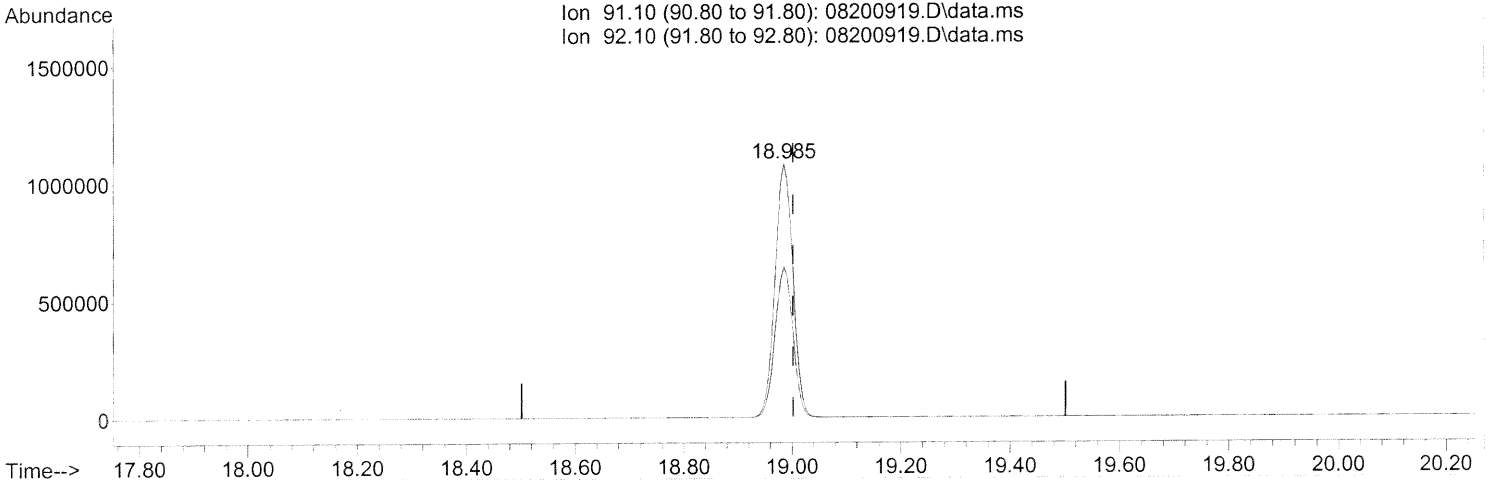
DT 8/22/09

E 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
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Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 50.49ng

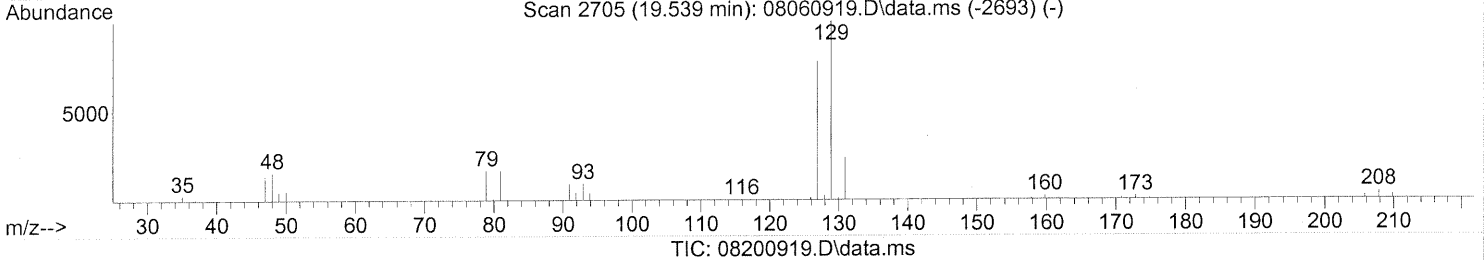
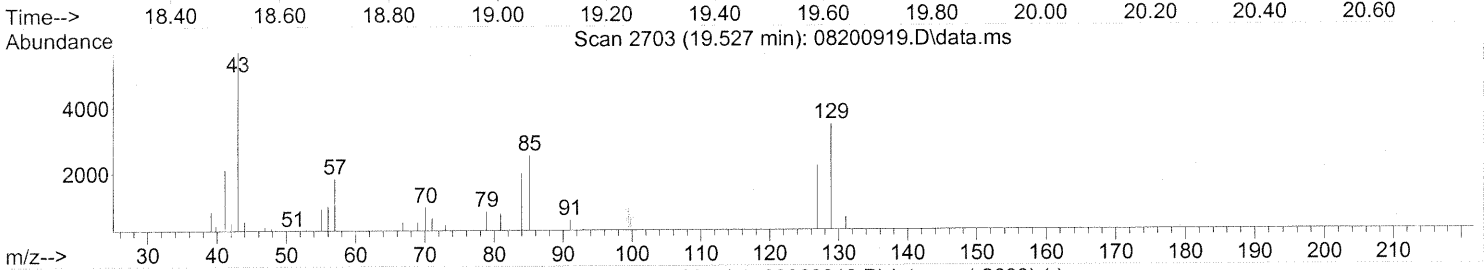
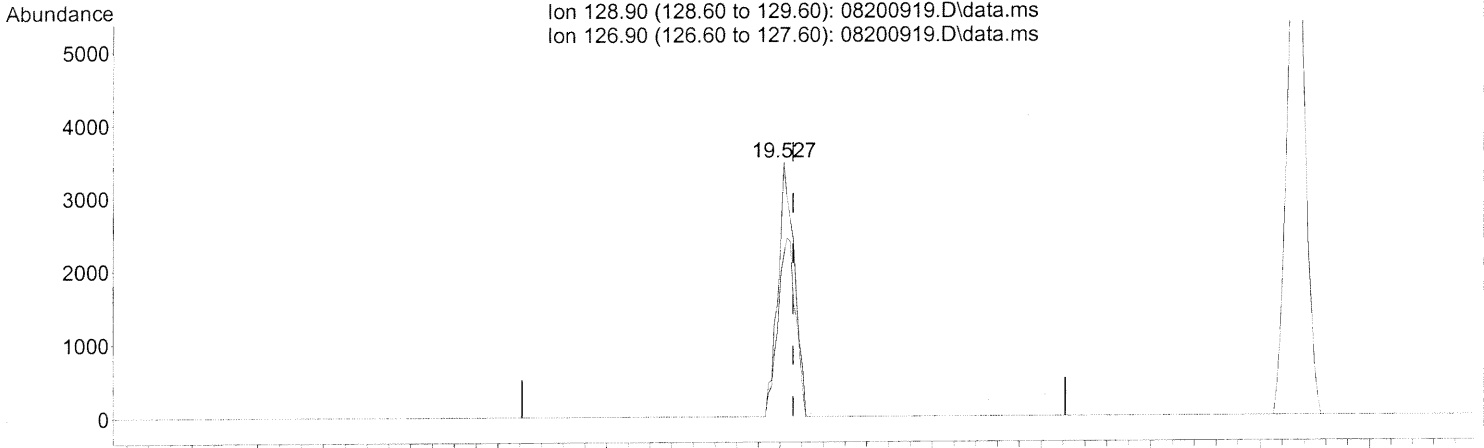
response 2484988

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.527min (-0.017) 0.62ng

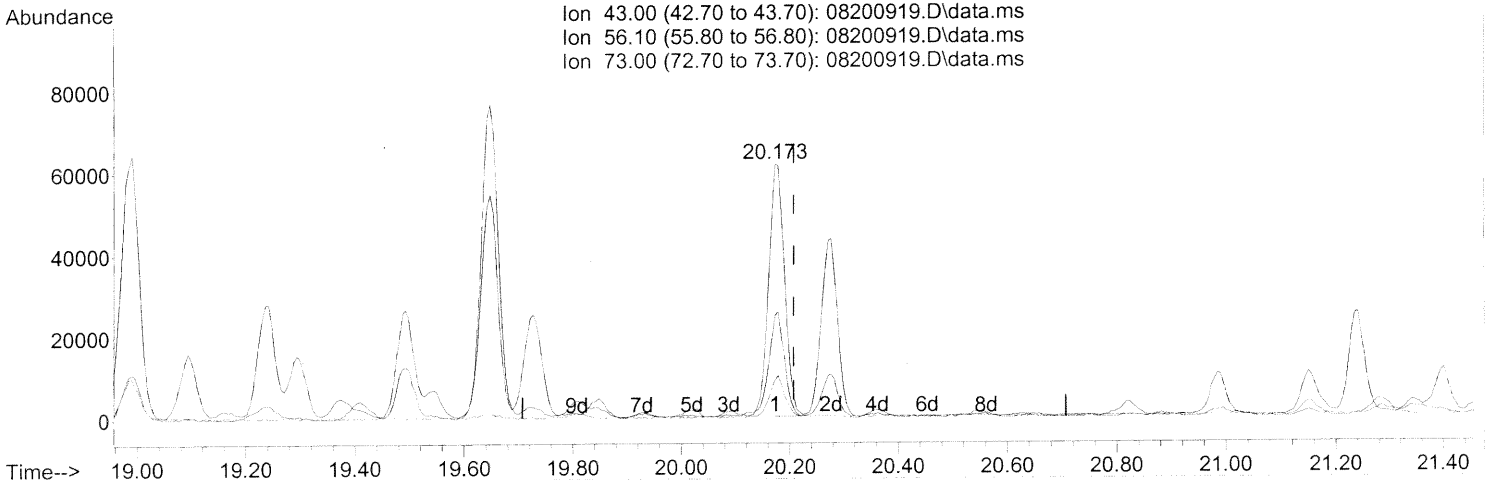
response 7266

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	75.21
0.00	0.00	0.00
0.00	0.00	0.00

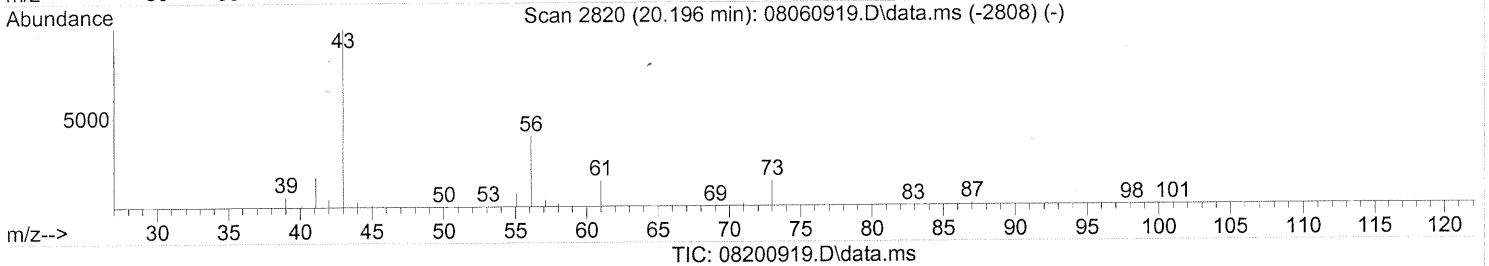
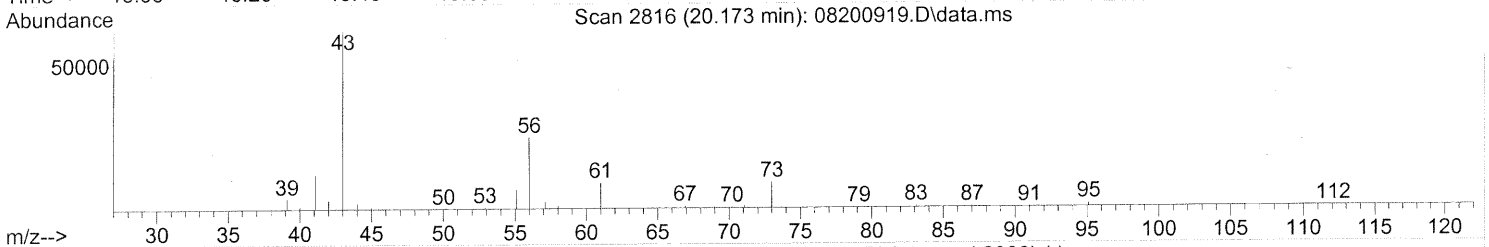
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
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Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 08200919.D\data.ms
 Ion 56.10 (55.80 to 56.80): 08200919.D\data.ms
 Ion 73.00 (72.70 to 73.70): 08200919.D\data.ms



(62) n-Butyl Acetate (T)

20.173min (-0.034) 3.28ng

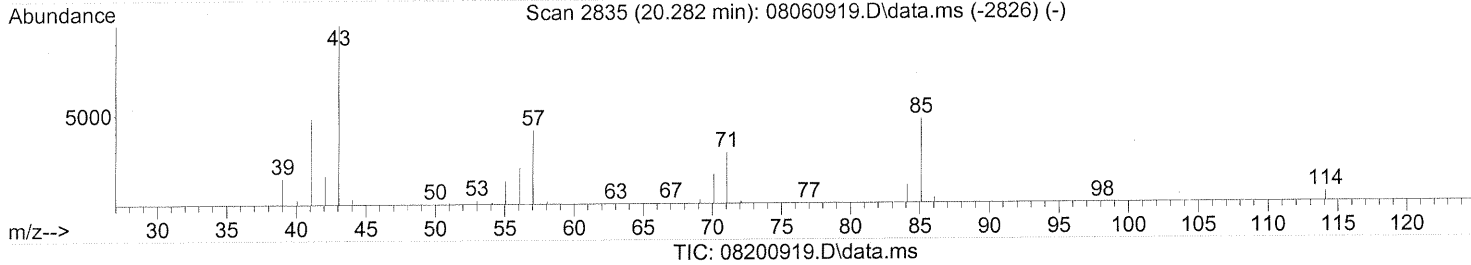
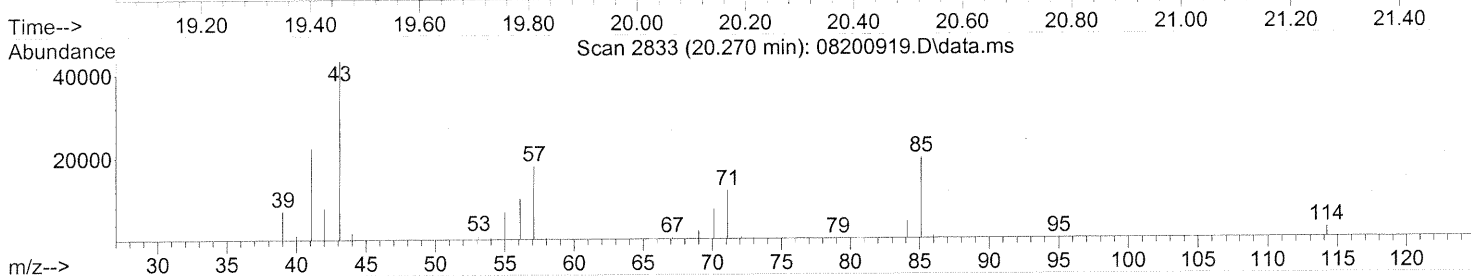
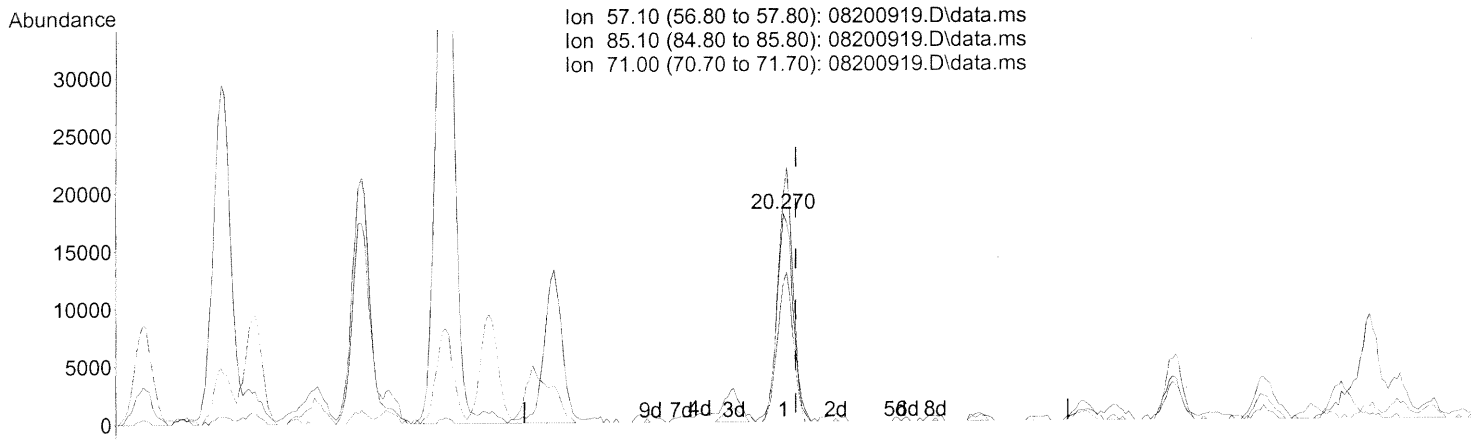
response 126678

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.05
73.00	14.80	16.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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 Operator : WA
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Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 3.16ng

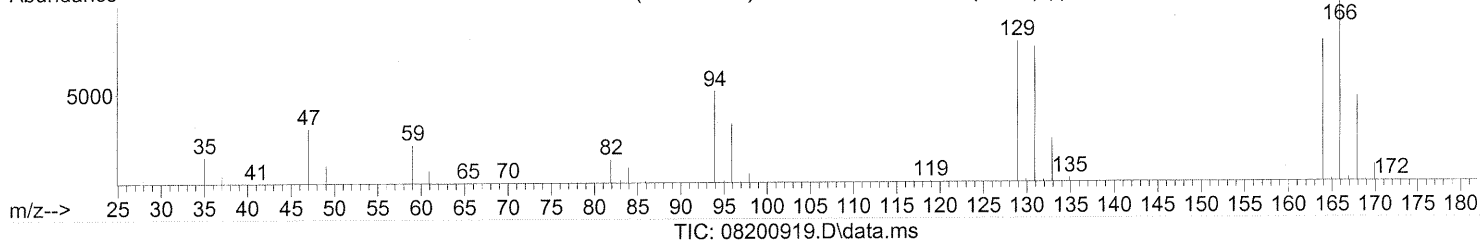
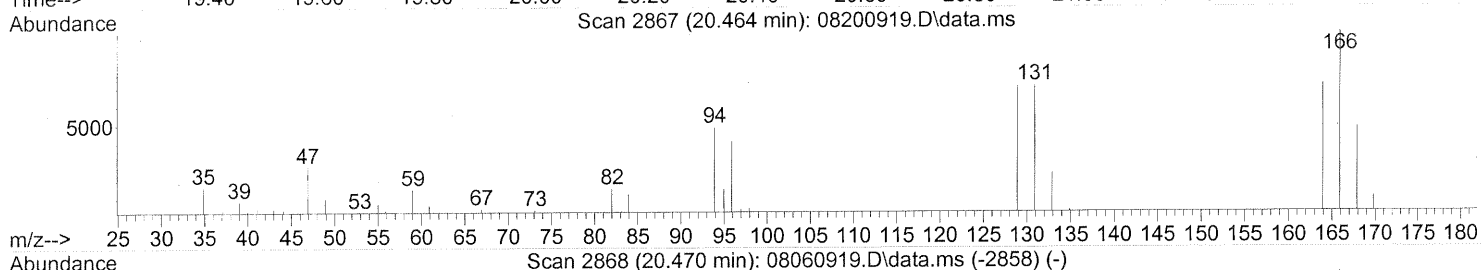
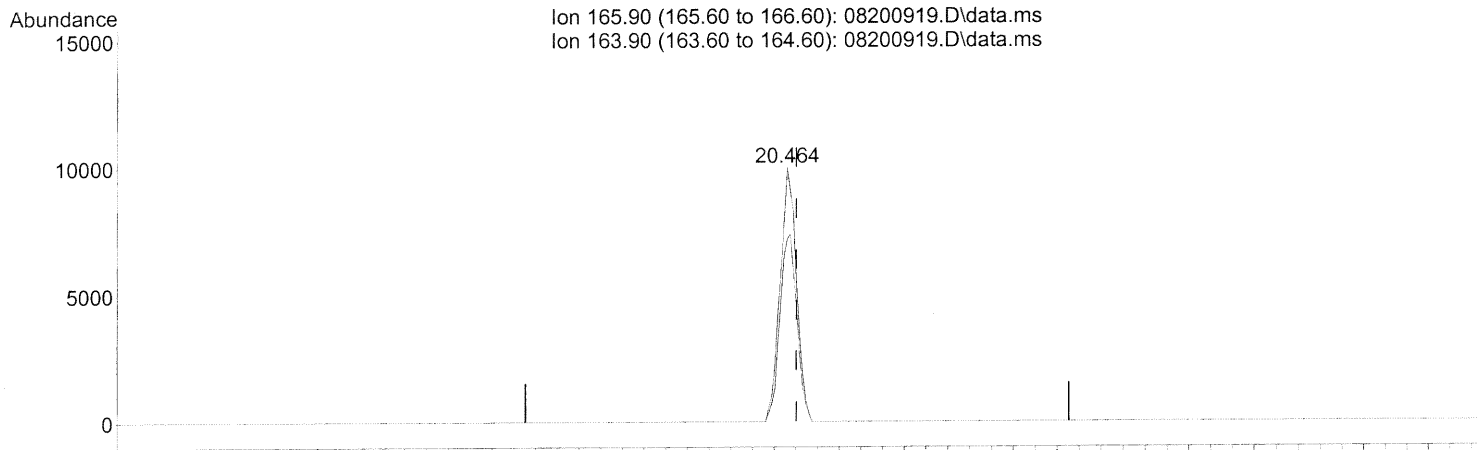
response 37565

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	114.34
71.00	68.10	69.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
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 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 1.84ng

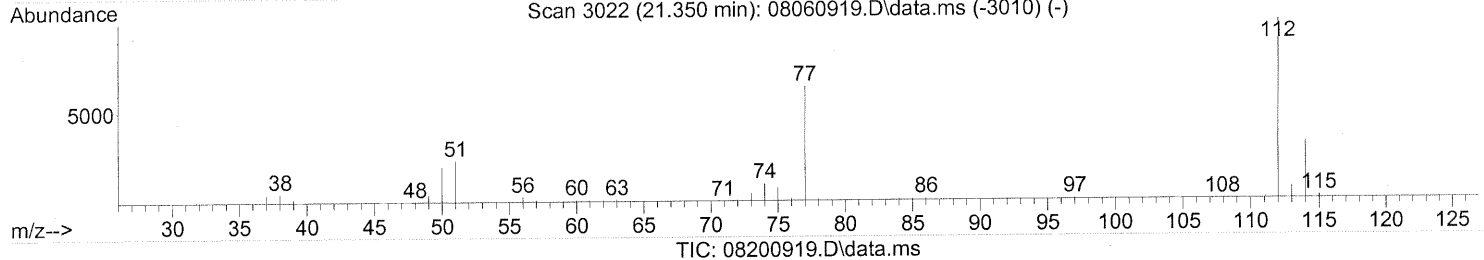
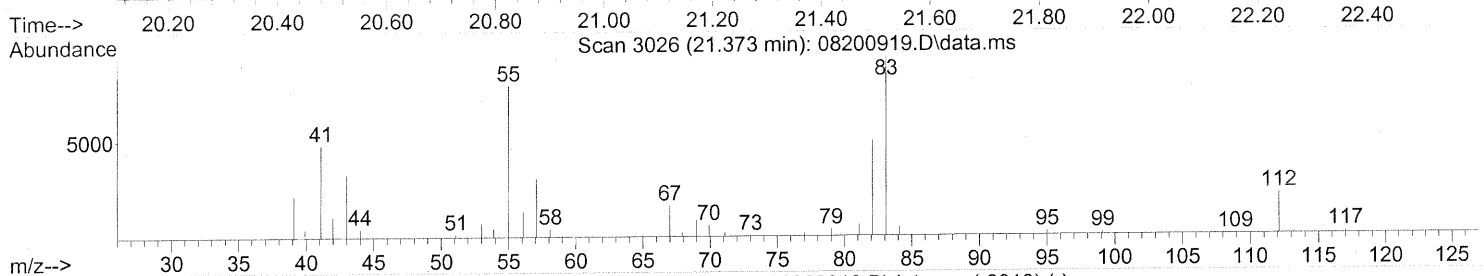
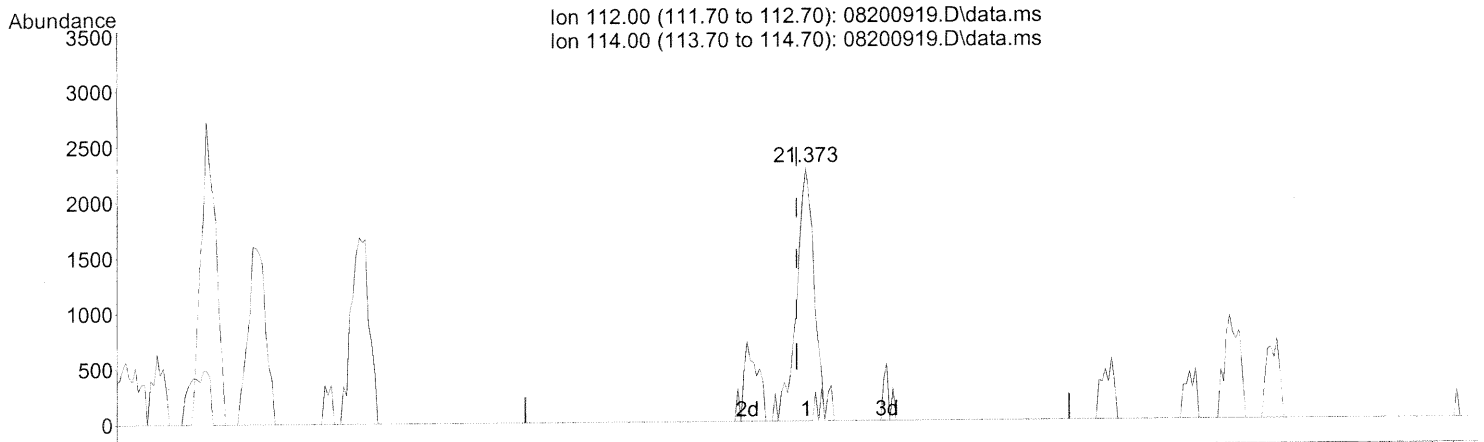
response 20994

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	76.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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Quant Time: Aug 21 13:38:39 2009
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



(65) Chlorobenzene (T)
21.373min (+0.017) 0.17ng

response 5149

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	1.71#
0.00	0.00	0.00
0.00	0.00	0.00

TP

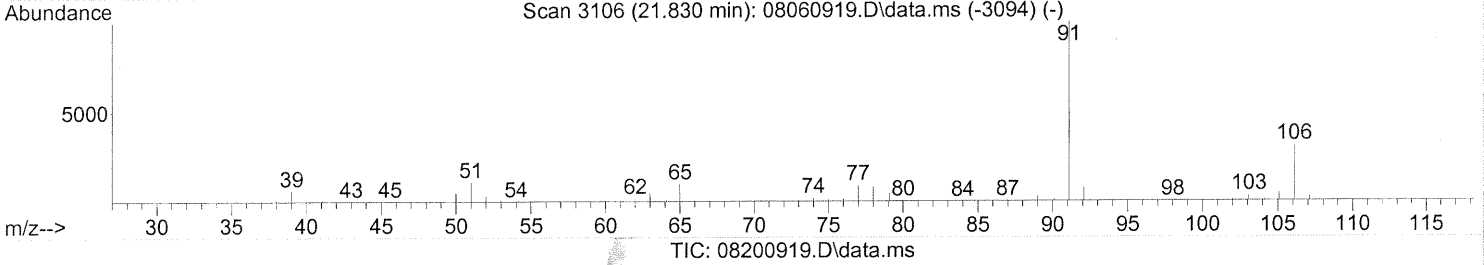
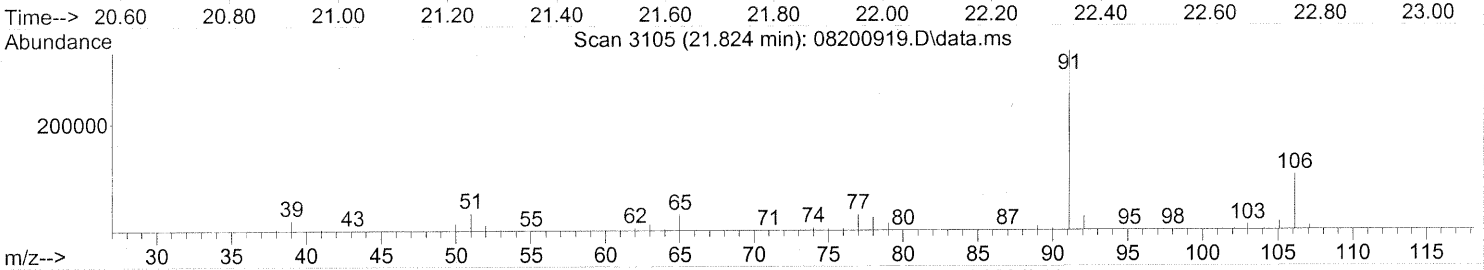
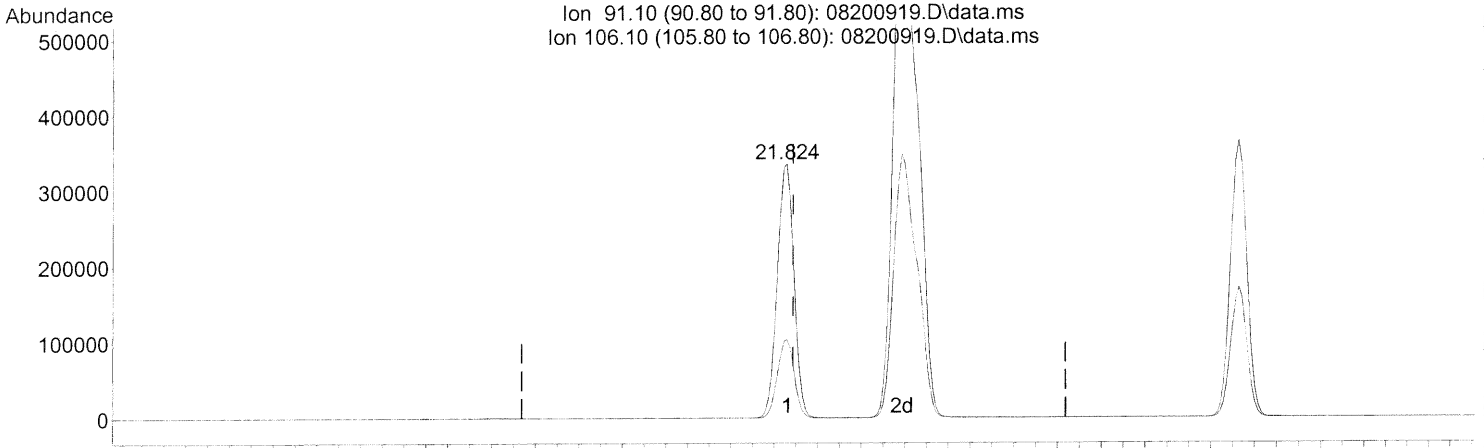
8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



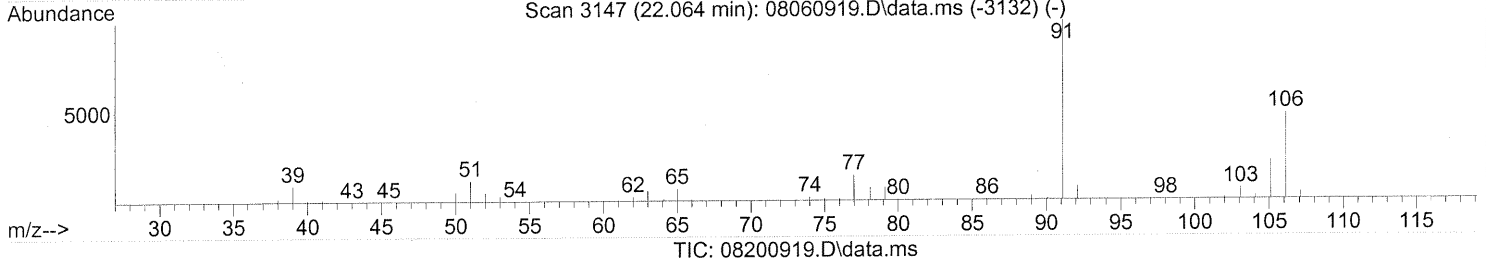
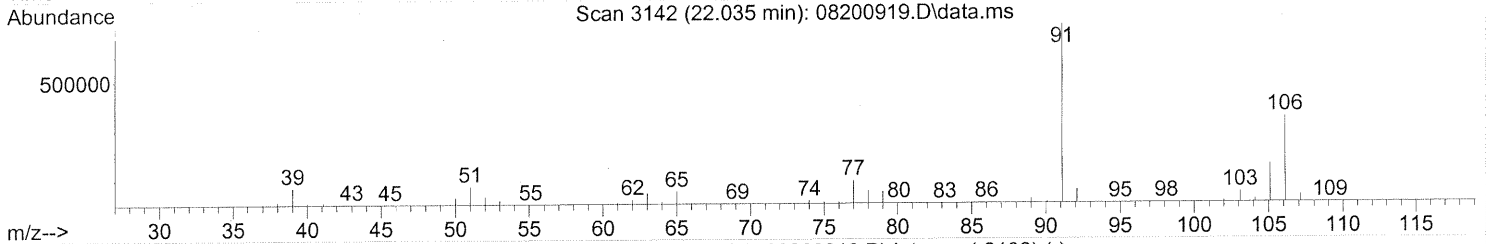
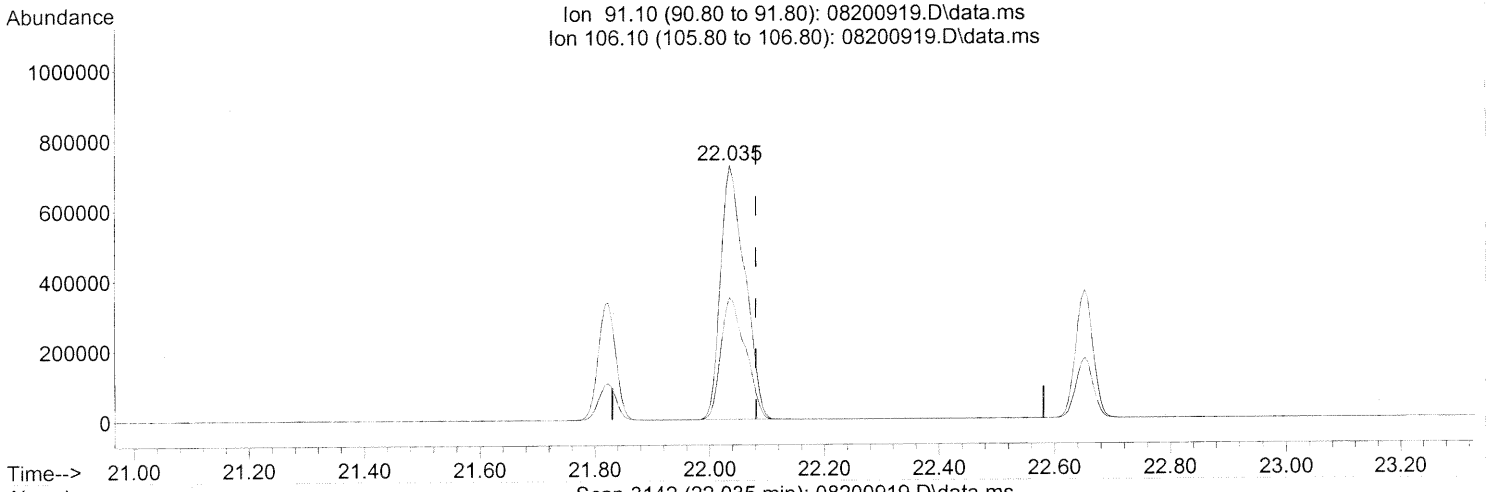
(66) Ethylbenzene (T)
 21.824min (-0.011) 12.74ng
 response 716645

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
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Quant Time: Aug 21 13:38:39 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 46.85ng

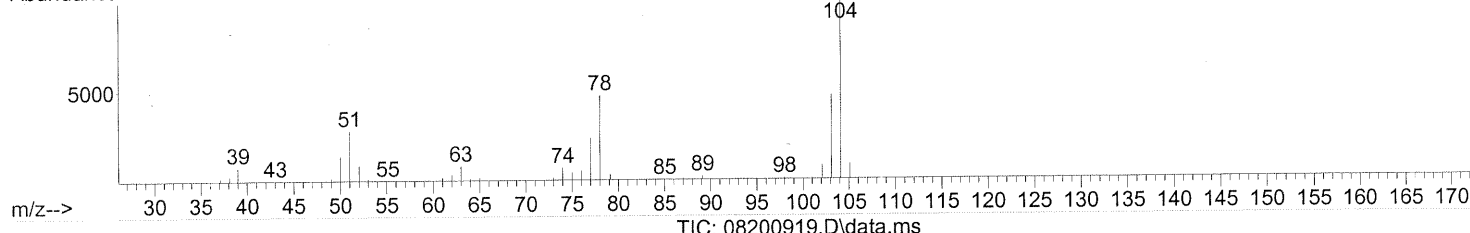
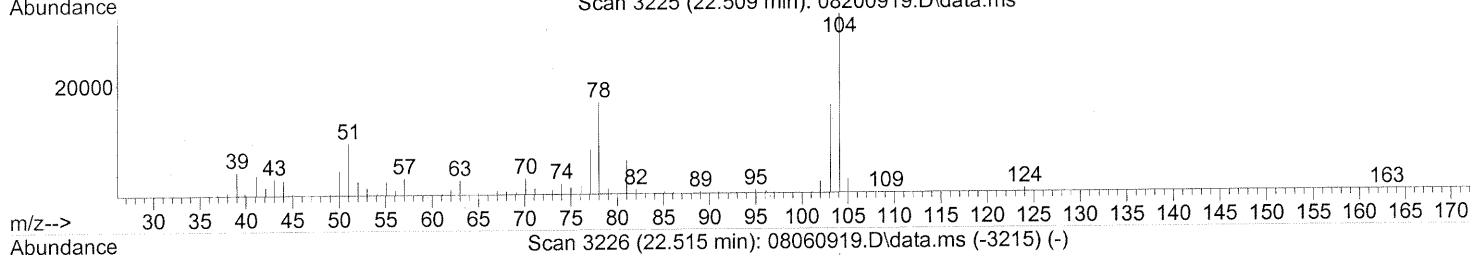
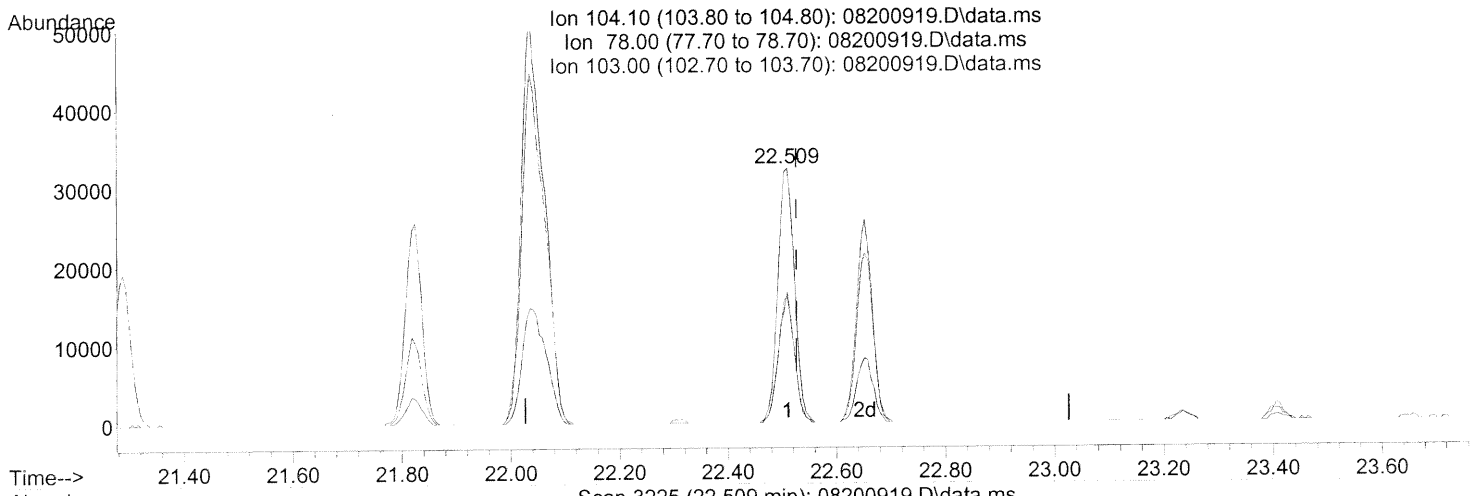
response 2132259

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



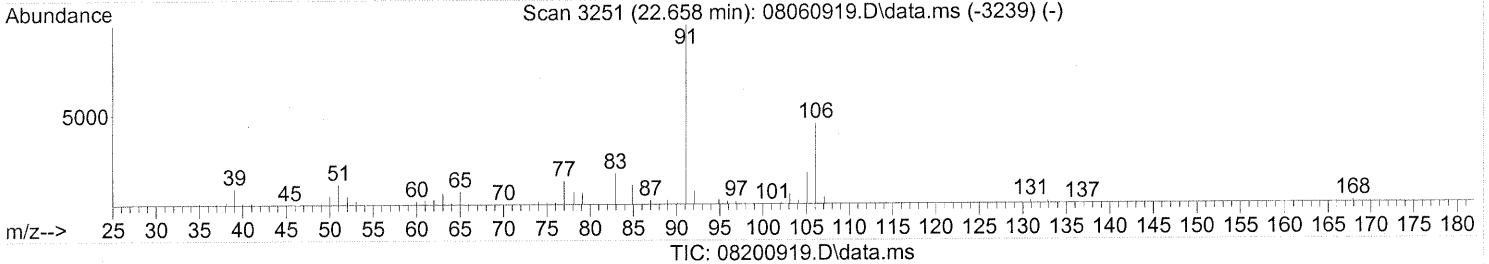
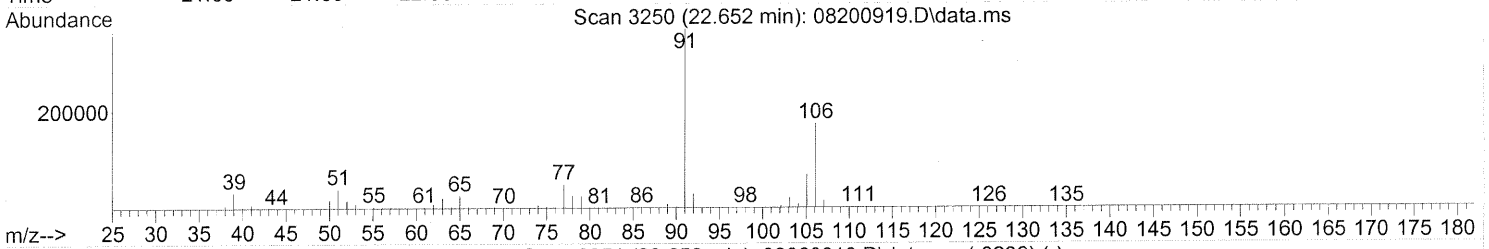
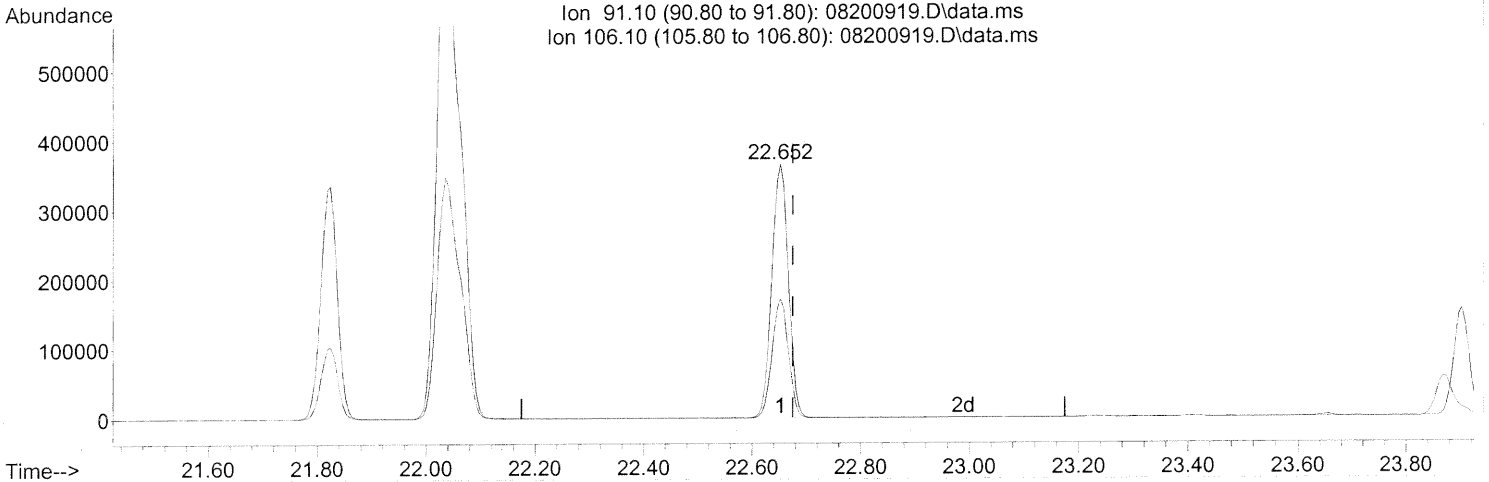
(69) Styrene (T)
 22.509min (-0.017) 2.09ng
 response 68738

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	48.04
103.00	46.20	48.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



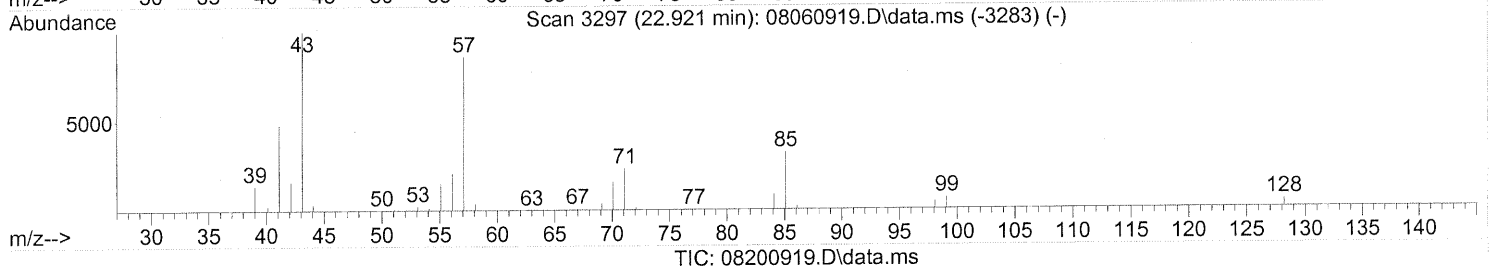
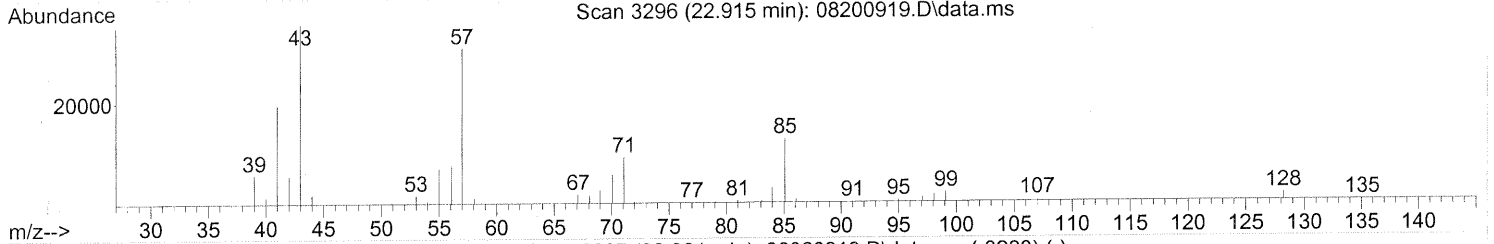
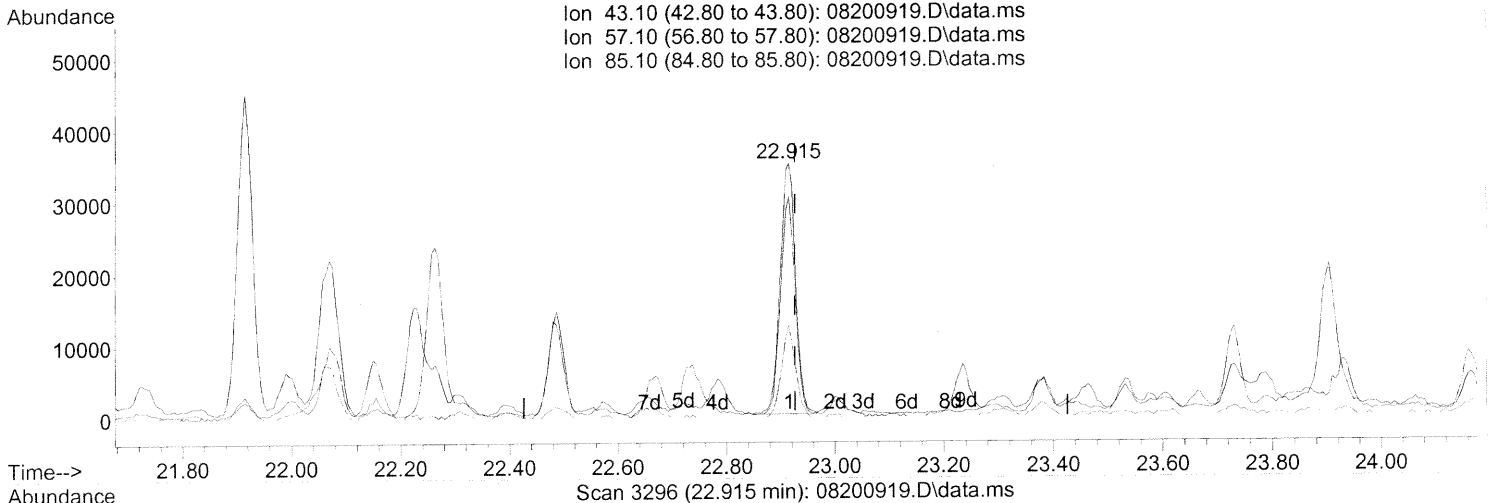
(70) o-Xylene (T)
 22.652min (-0.023) 16.83ng
 response 767987

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	46.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



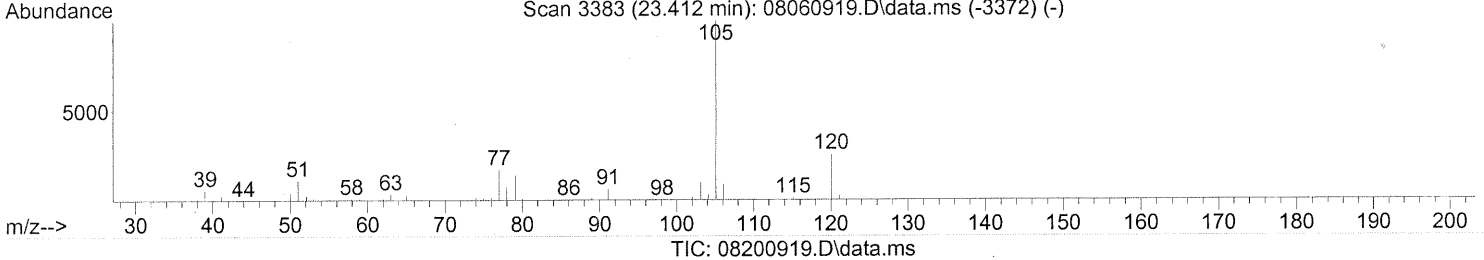
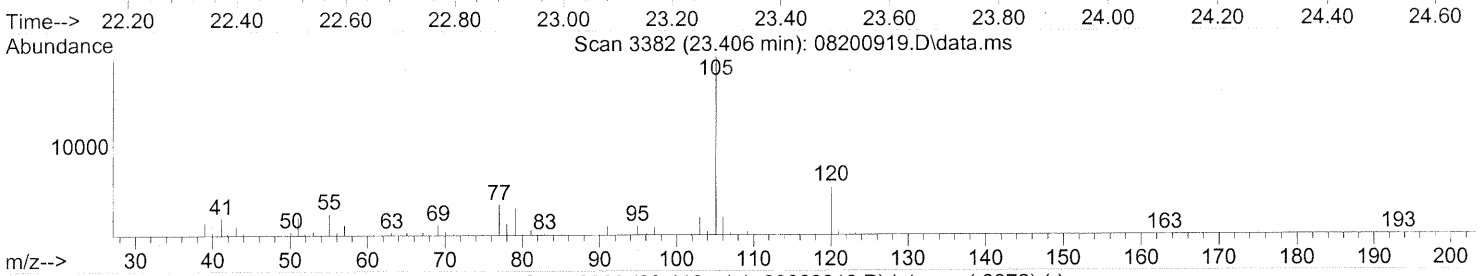
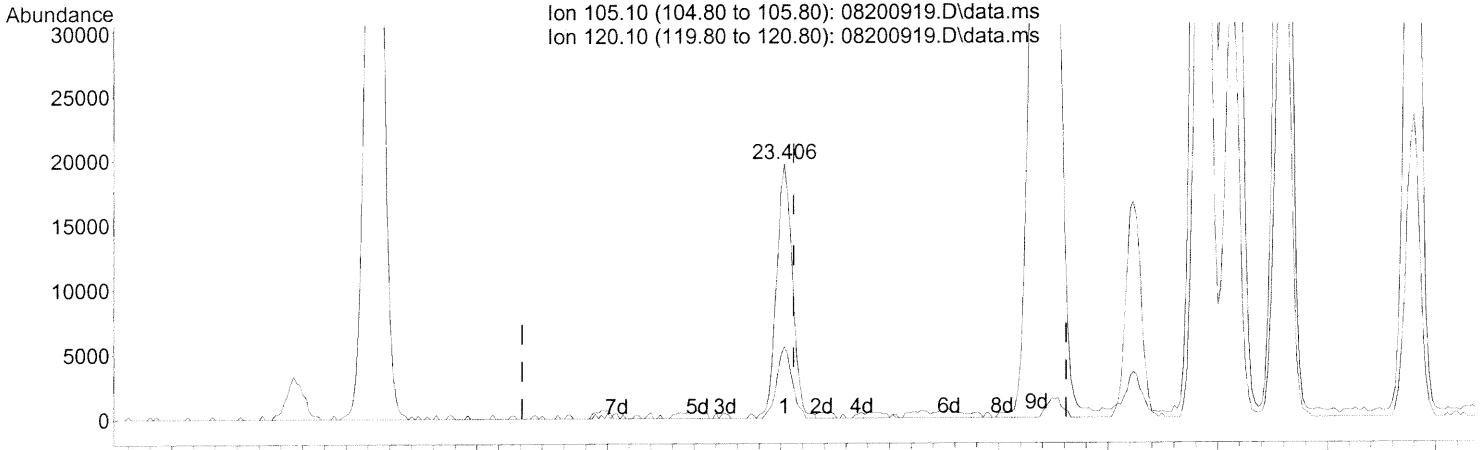
(71) n-Nonane (T)
 22.915min (-0.011) 2.28ng
 response 69228

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	82.37
85.10	30.40	32.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(74) Cumene (T)

23.406min (-0.017) 0.69ng

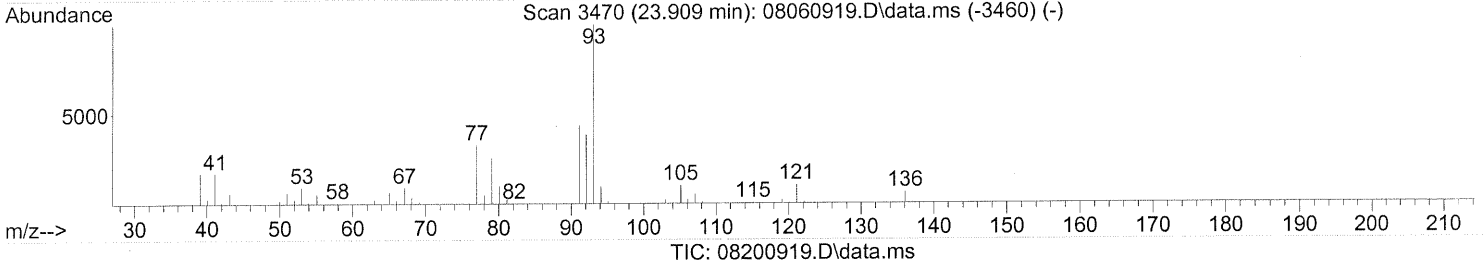
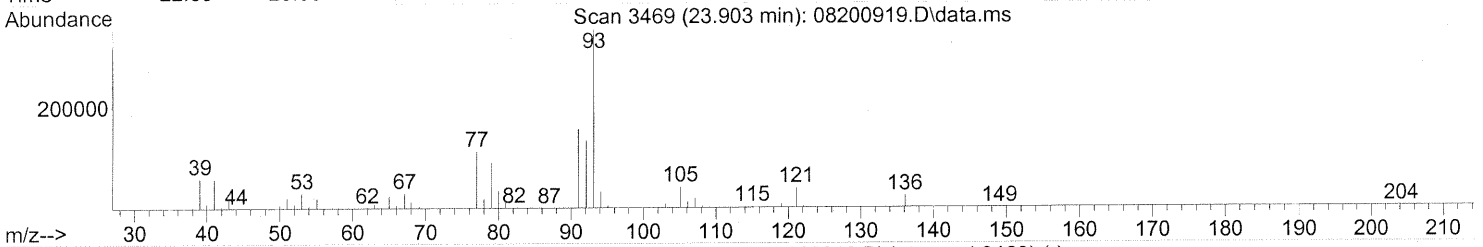
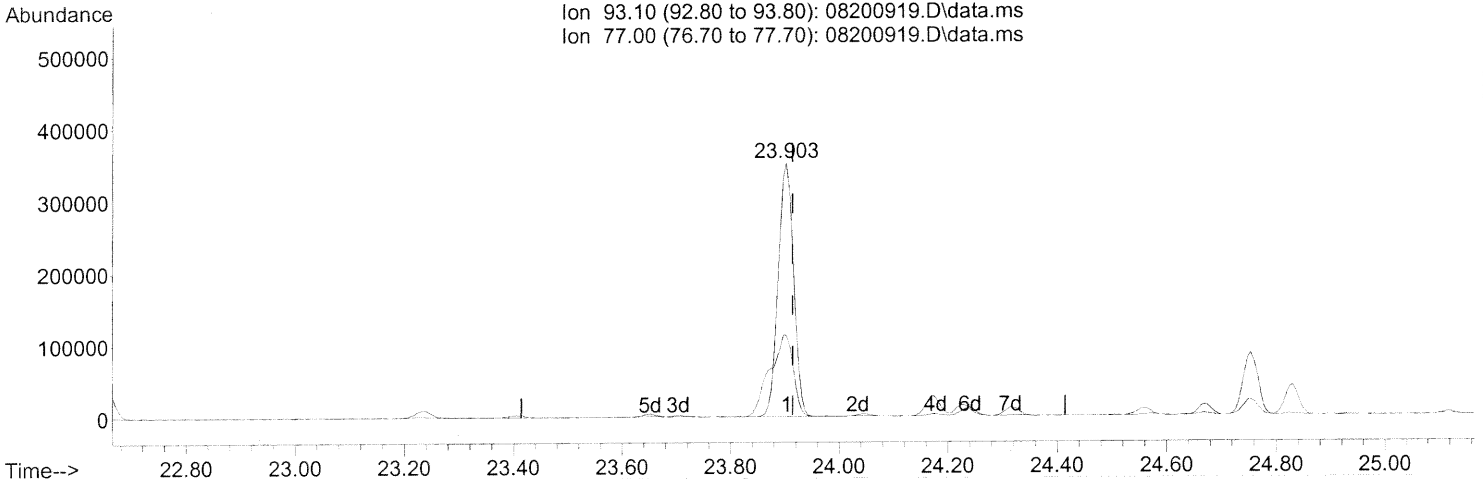
response 39681

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



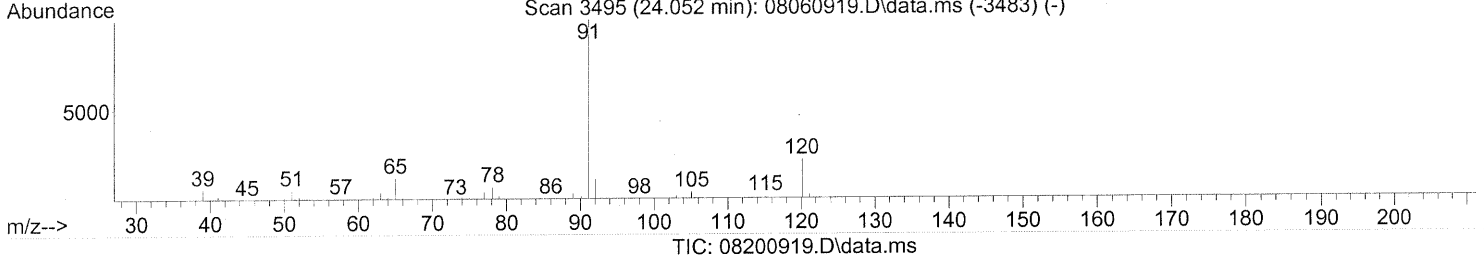
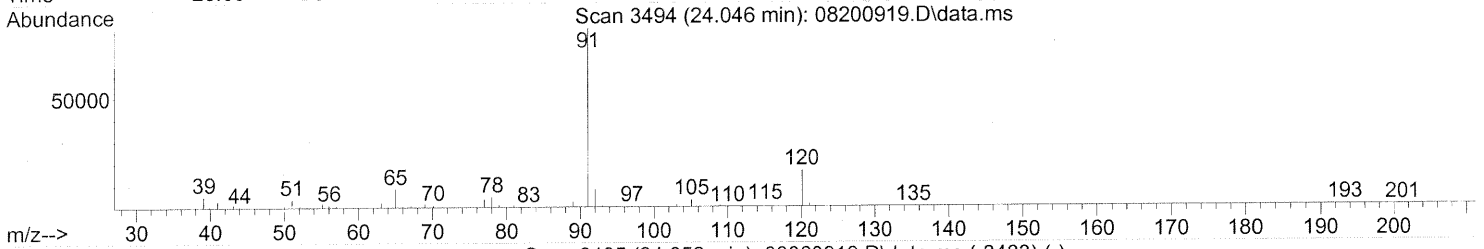
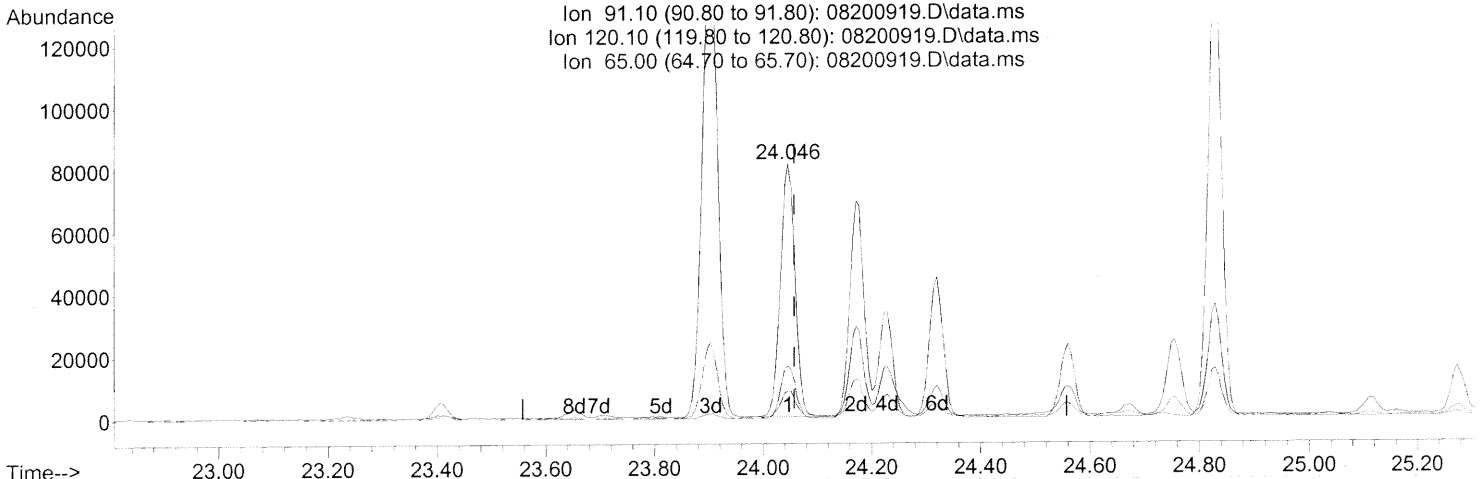
(75) alpha-Pinene (T)
23.903min (-0.011) 23.49ng
response 694064

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	49.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.011) 2.08ng

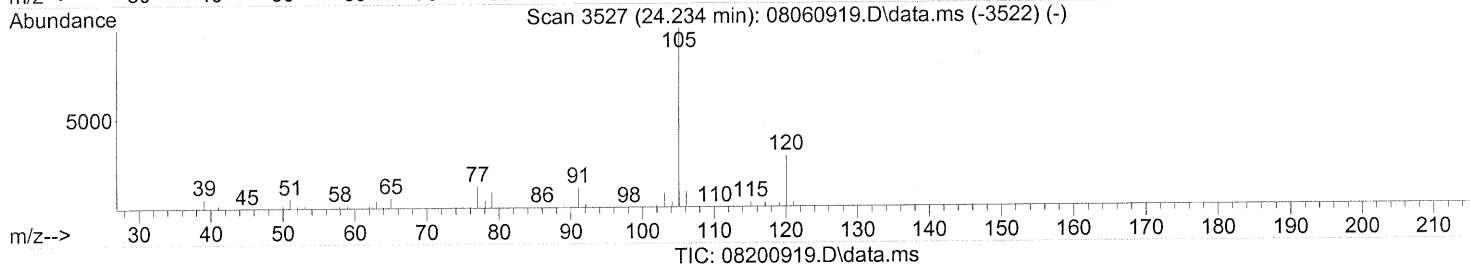
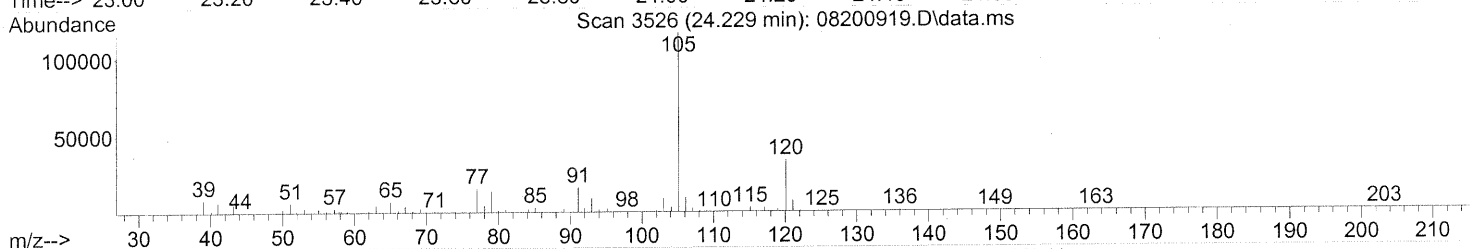
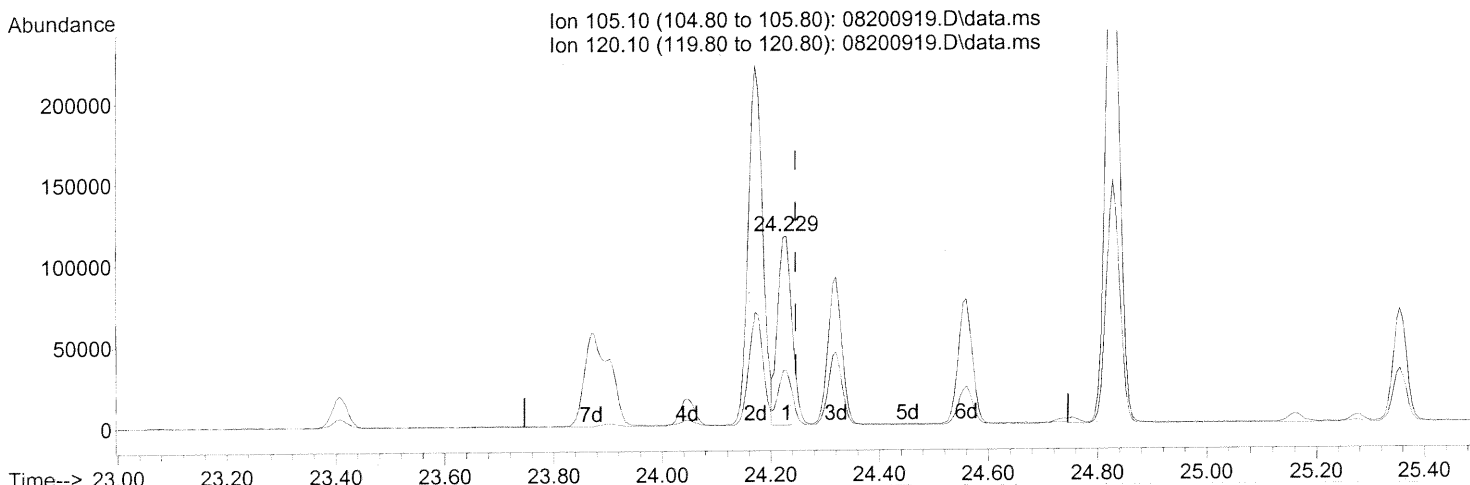
response 151056

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.50
65.00	12.00	13.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.229min (-0.017) 3.99ng

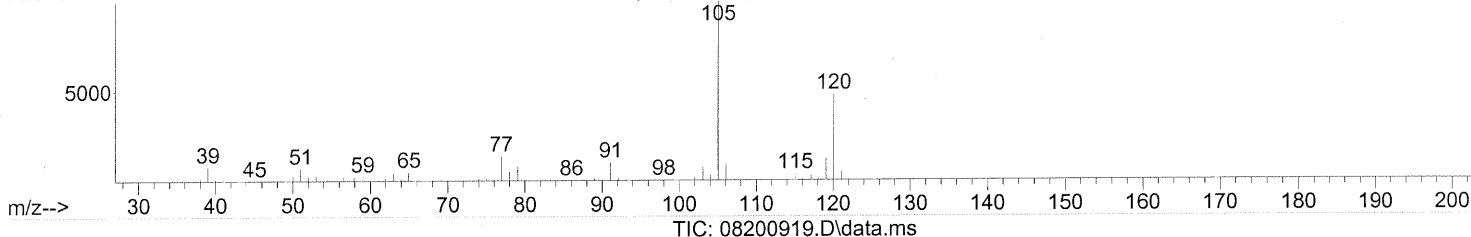
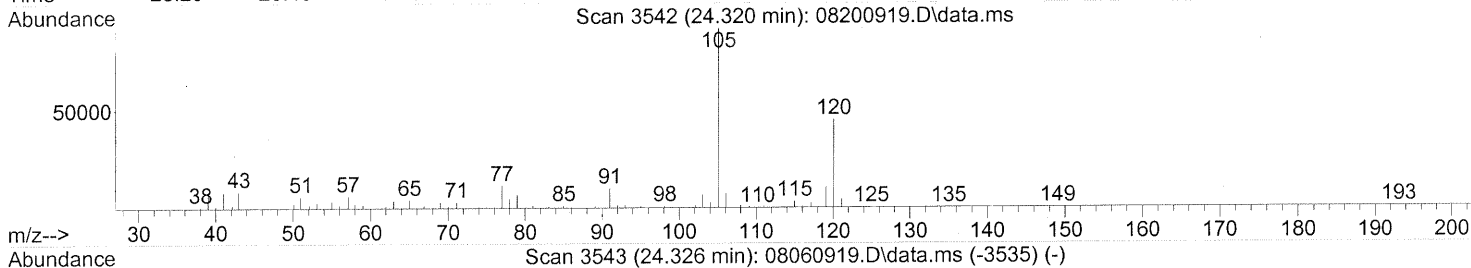
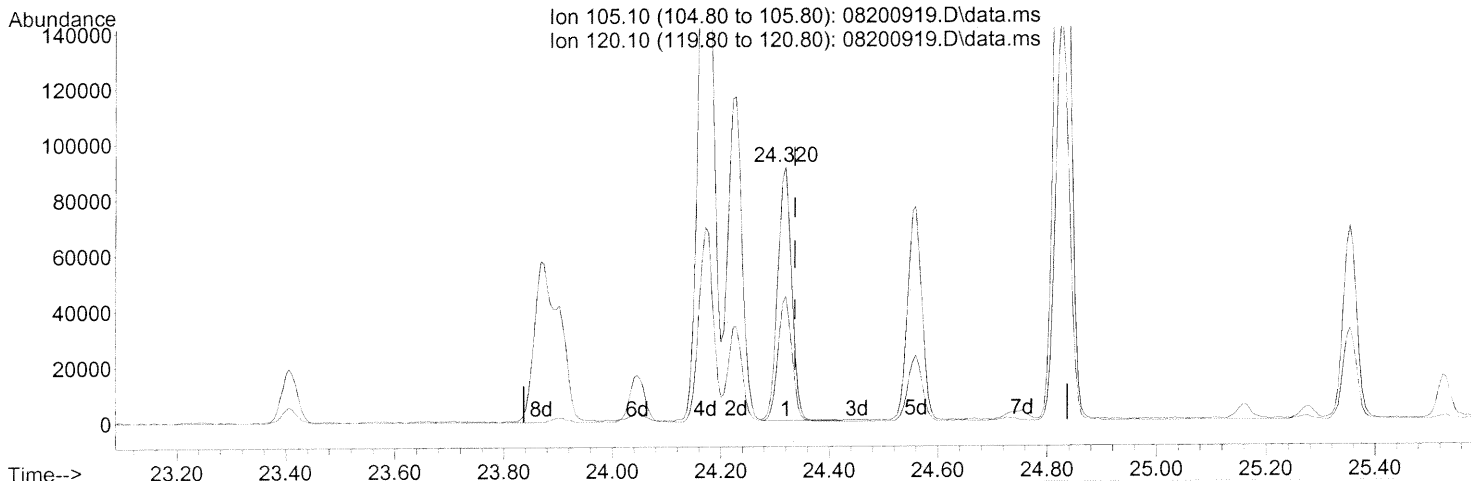
response 212885

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	29.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 3.63ng

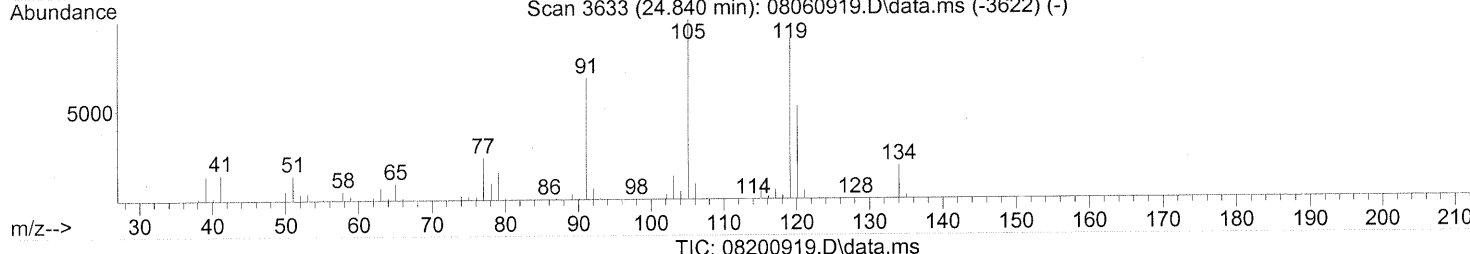
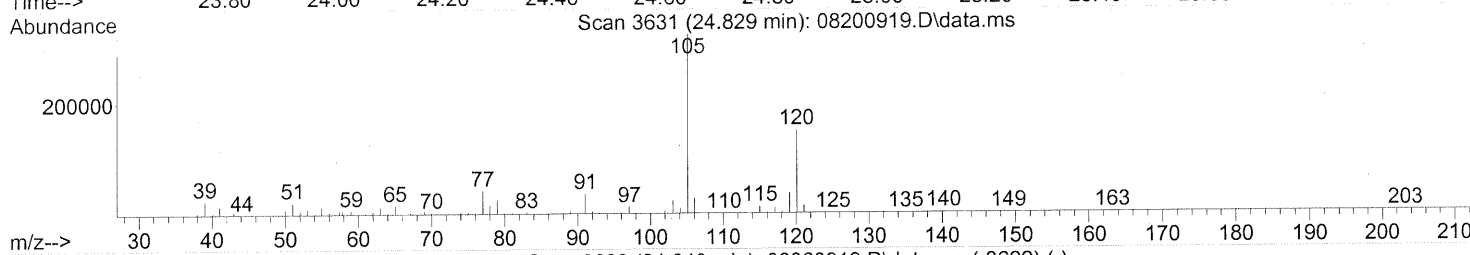
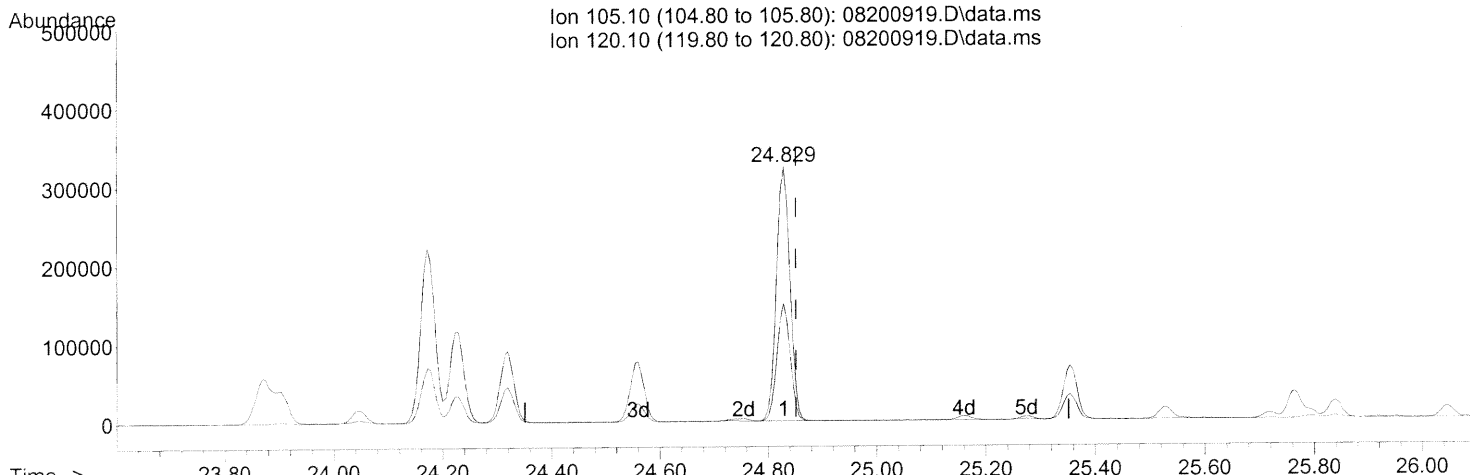
response 163343

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200919.D
Acq On : 20 Aug 2009 22:38
Operator : WA
Sample : P0902805-002 (1000mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 12.27ng

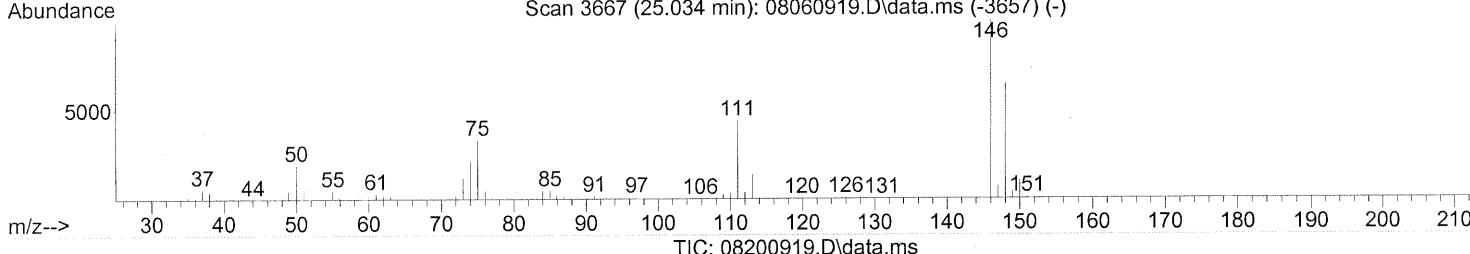
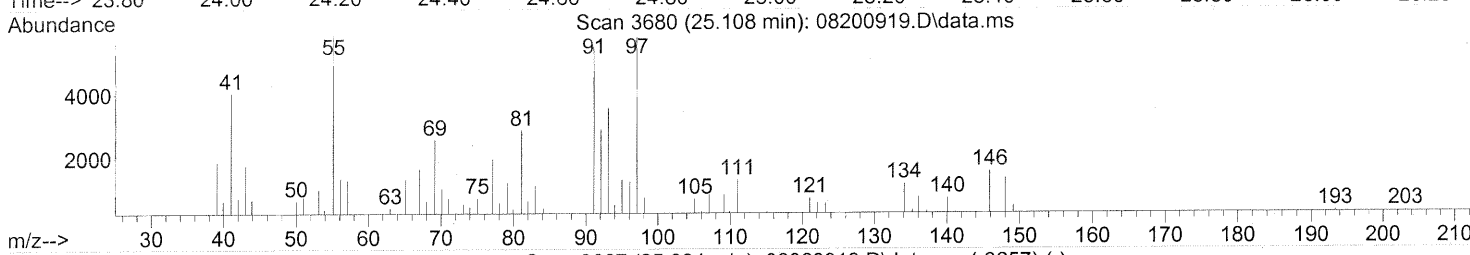
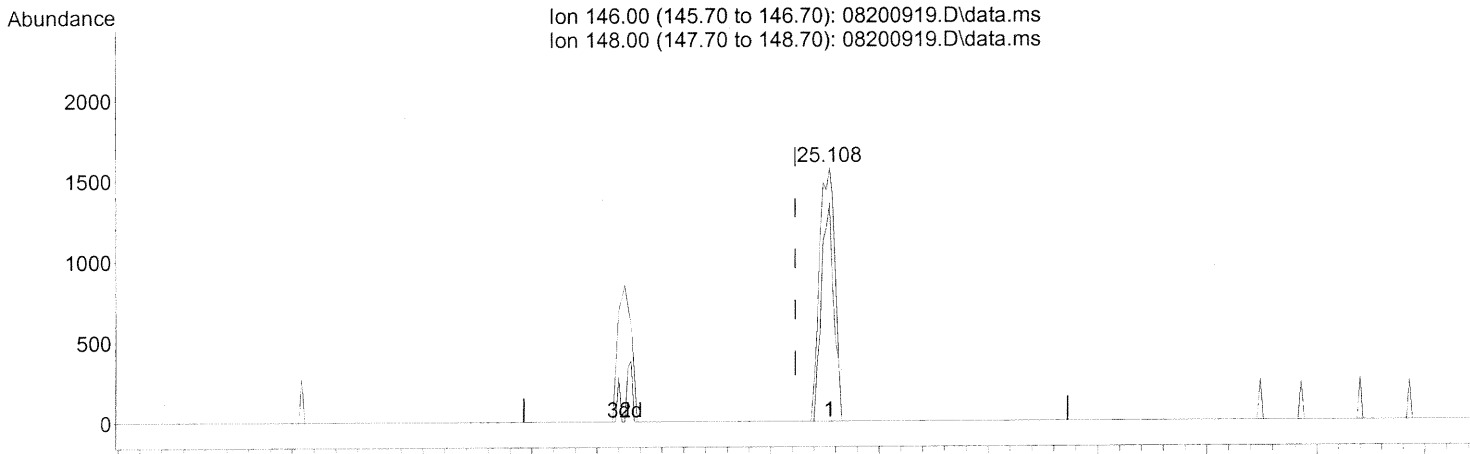
response 563434

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.108min (+0.063) 0.13ng

response 3123

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	69.32
0.00	0.00	0.00
0.00	0.00	0.00

TP

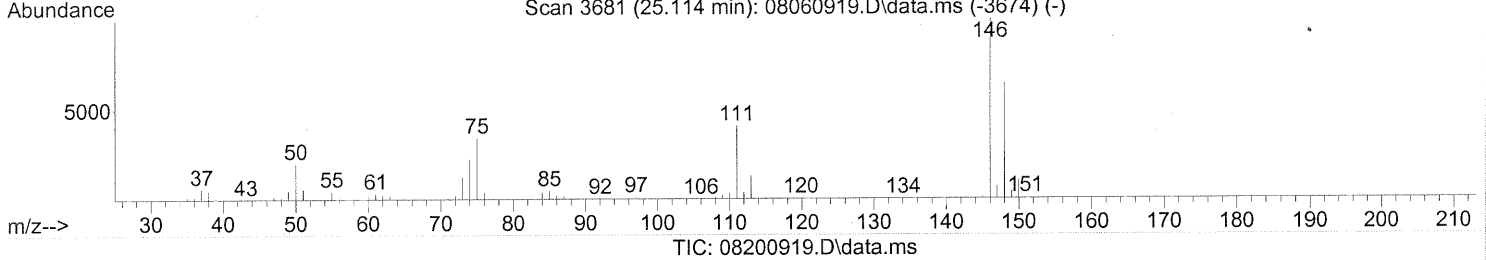
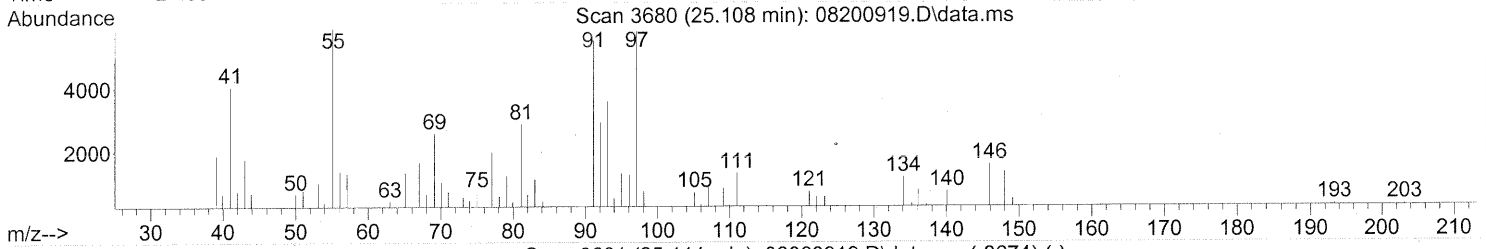
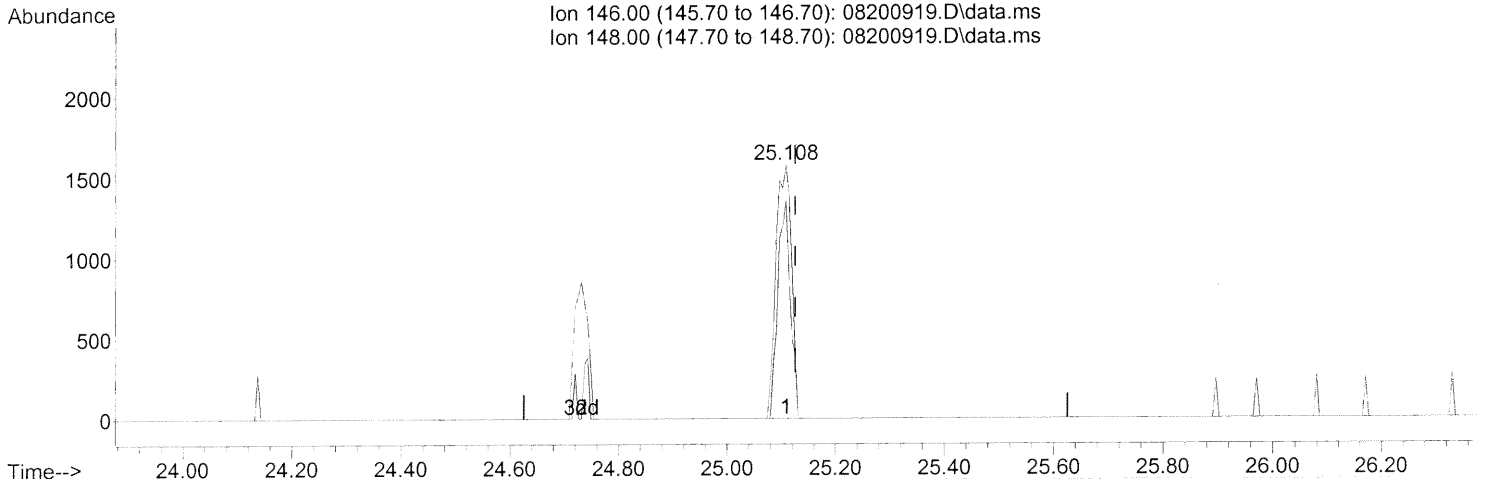
8/26/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.108min (-0.017) 0.13ng

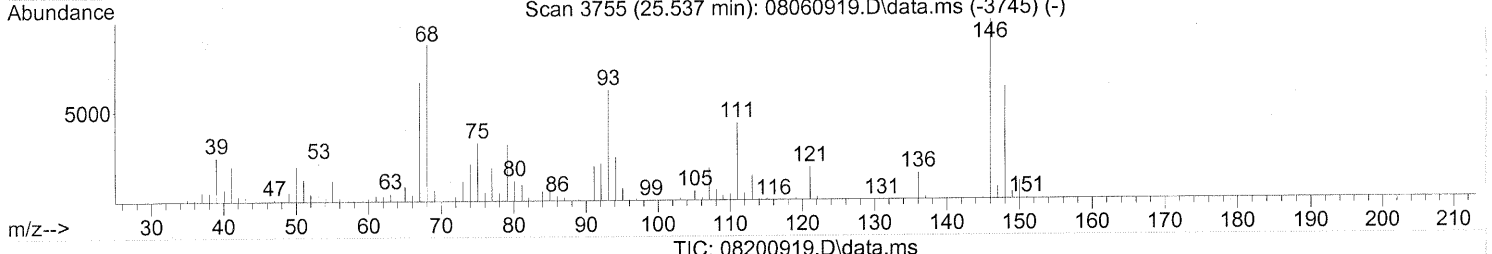
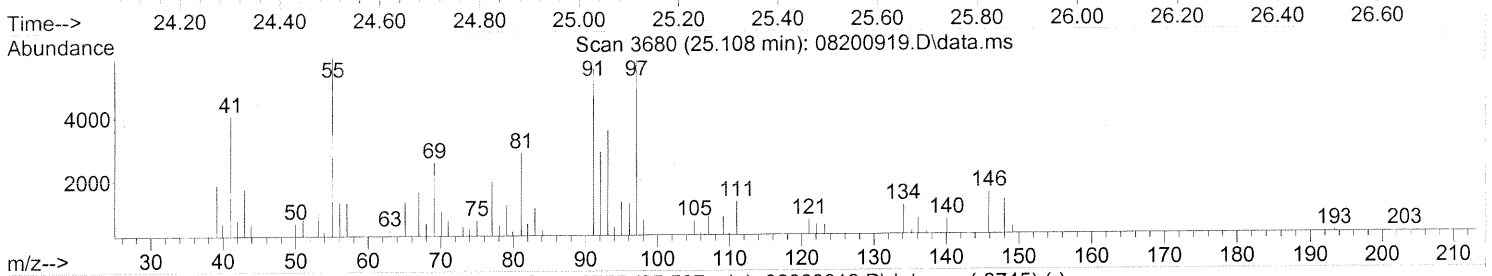
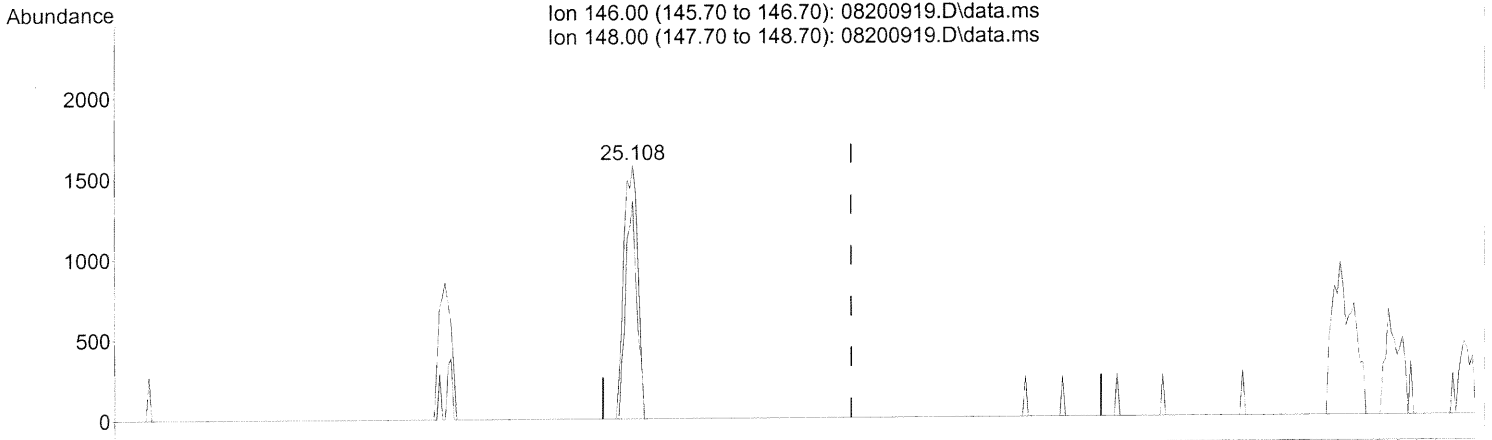
response 3123

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	69.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.108min (-0.440) 0.14ng

response 3123

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	69.32
0.00	0.00	0.00
0.00	0.00	0.00

FP

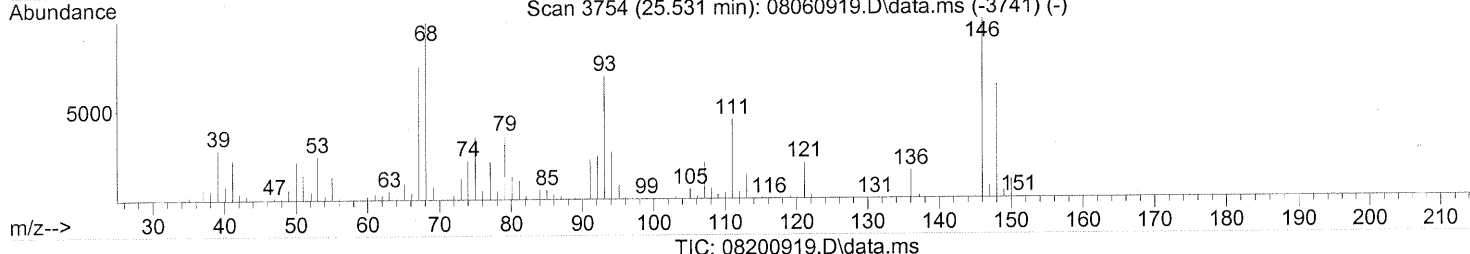
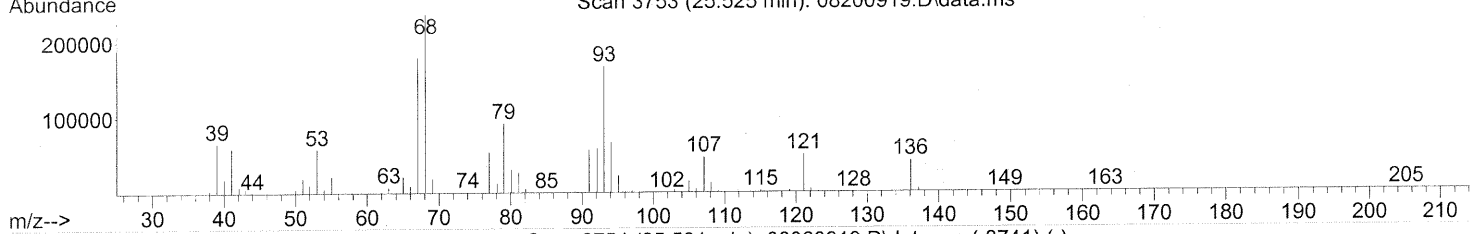
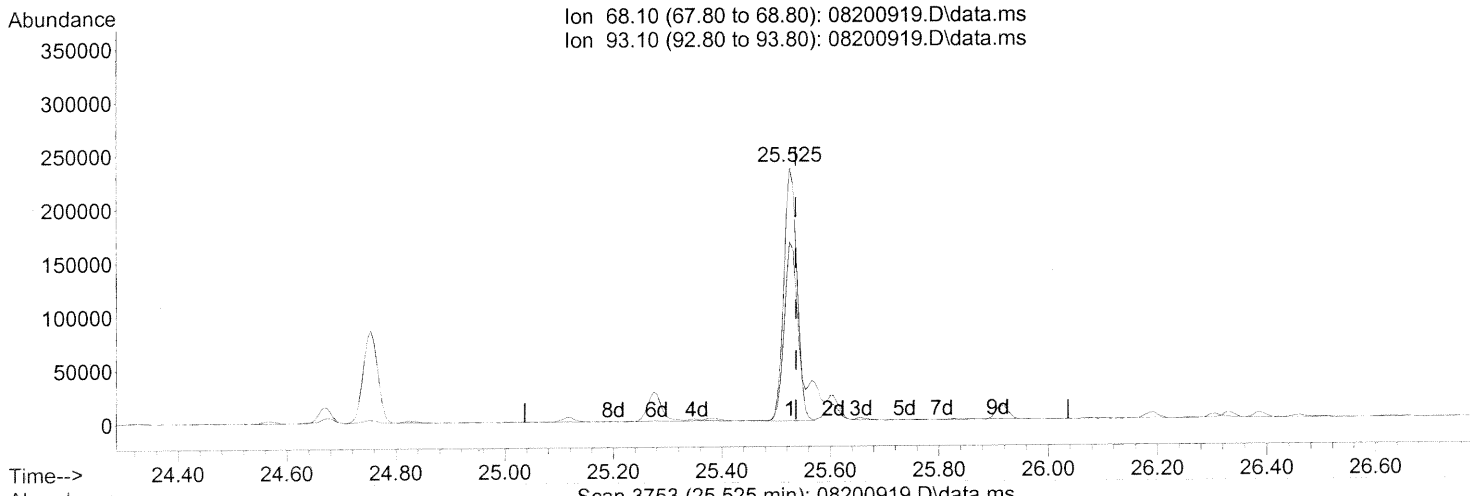
DI 8/22/09

[Signature] 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



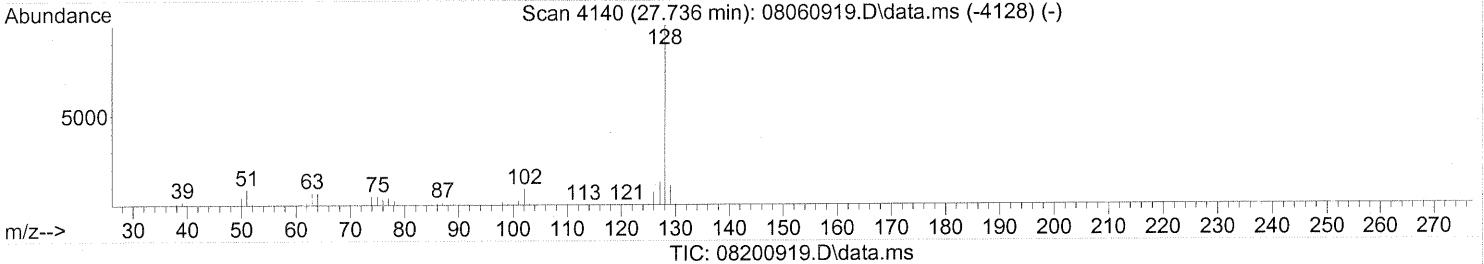
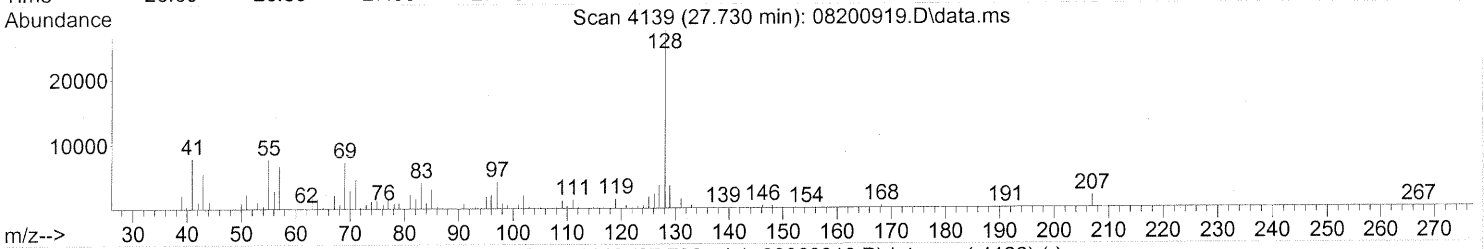
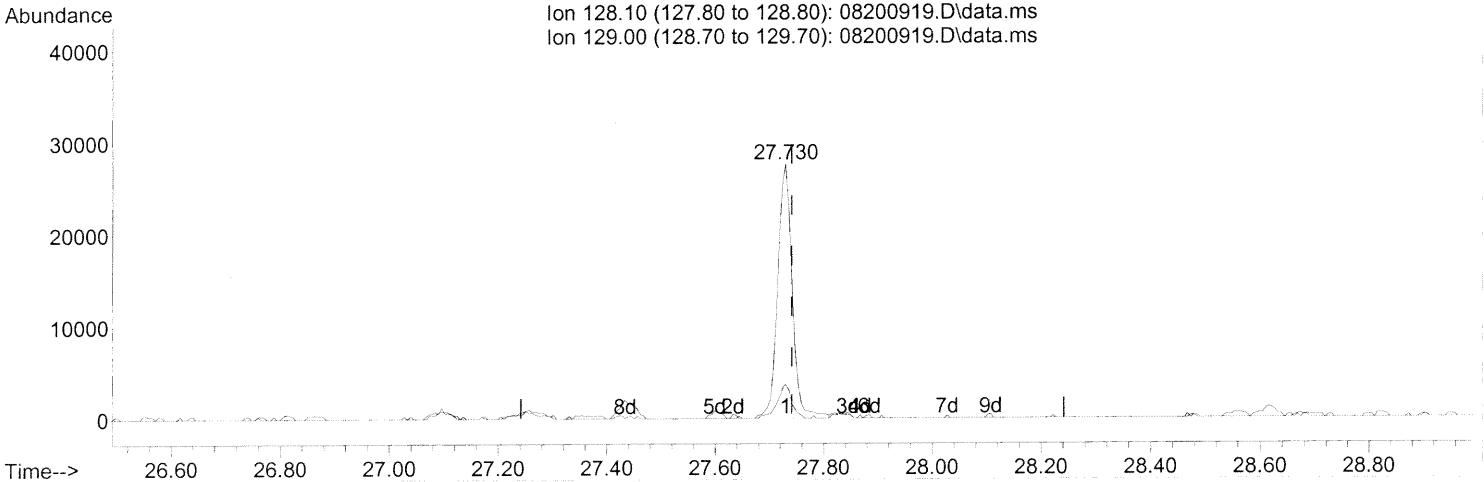
(91) d-Limonene (T)
 25.525min (-0.011) 20.53ng
 response 400768

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	97.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200919.D
 Acq On : 20 Aug 2009 22:38
 Operator : WA
 Sample : P0902805-002 (1000mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 13:38:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

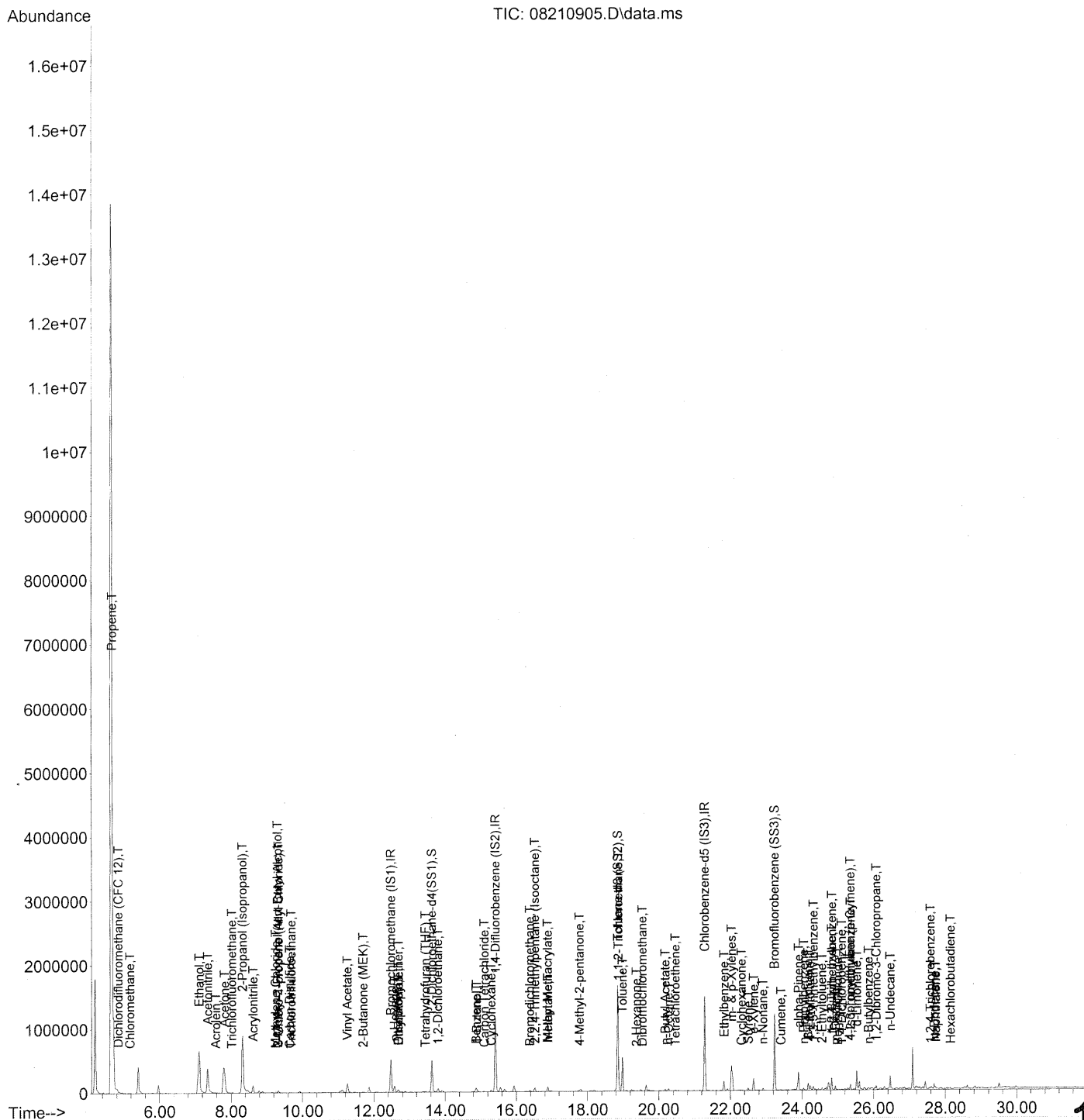


(95) Naphthalene (T)
 27.730min (-0.011) 0.83ng
 response 51615

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.12
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210905.D
 Acq On : 21 Aug 2009 10:36
 Operator : WA
 Sample : P0902805-002 dil (200mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210905.D
 Acq On : 21 Aug 2009 10:36
 Operator : WA
 Sample : P0902805-002 dil (200mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	261840	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1325248	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.29	82	628776	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	515442	22.649	ng	-0.04
Spiked Amount			25.000	Recovery =		90.60% ✓
57) Toluene-d8 (SS2)	18.85	98	1445505	26.310	ng	-0.02
Spiked Amount			25.000	Recovery =		105.24% ✓
73) Bromofluorobenzene (SS3)	23.23	174	400709	27.657	ng	-0.01 ✓
Spiked Amount			25.000	Recovery =		110.64%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	97467	5.424	ng	# 36
3) Dichlorodifluoromethan...	4.84	85	14263	0.486	ng	93
4) Chloromethane	5.17	50	7704	0.390	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.97	54	88	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	1537562	134.999	ng	99
11) Acetonitrile	7.35	41	664804	19.931	ng	100
12) Acrolein	7.57	56	3965	0.457	ng	93
13) Acetone	7.82	58	169699	15.791	ng	# 53
14) Trichlorofluoromethane	8.02	101	5102	0.192	ng	100
15) 2-Propanol (Isopropanol)	8.32	45	1991877	47.166	ng	100
16) Acrylonitrile	8.62	53	1705	0.088	ng	# 9
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	6900	0.184	ng	# 1
19) Methylene Chloride	9.25	84	1183	0.082	ng	83
20) 3-Chloro-1-propene (Al...	9.33	41	8721	0.313	ng	# 43
21) Trichlorotrifluoroethane	9.68	151	490	0.051	ng	# 74
22) Carbon Disulfide	9.64	76	3846	0.076	ng	81
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.22	73	750	N.D.		
26) Vinyl Acetate	11.26	86	5420	2.478	ng	# 1
27) 2-Butanone (MEK)	11.70	72	5240	0.540	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	692	0.053	ng	# 1
30) Ethyl Acetate	12.68	61	7770	1.537	ng	96
31) n-Hexane	12.58	57	66367	2.567	ng	99

130

WA 8/22/09

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210905.D
 Acq On : 21 Aug 2009 10:36
 Operator : WA
 Sample : P0902805-002 dil (200mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	7715	0.339	ng	95
34) Tetrahydrofuran (THF)	13.44	72	1191	0.115	ng #	47
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	7167	0.344	ng	98
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.85	61	285	N.D.		
40) 1-Butanol	14.88	56	18212	1.059	ng	88
41) Benzene	14.87	78	60356	1.036	ng	99
42) Carbon Tetrachloride	15.10	117	1709	0.092	ng	93
43) Cyclohexane	15.29	84	14635	0.686	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	4719	0.246	ng #	69
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	63093	0.919	ng	93
50) Methyl Methacrylate	16.88	100	7270	1.355	ng #	1
51) n-Heptane	16.88	71	21410	1.369	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	4435	0.317	ng	94
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	125180	9.785	ng #	6
58) Toluene	18.98	91	481407	8.916	ng	100
59) 2-Hexanone	19.37	43	3785	0.105	ng #	64
60) Dibromochloromethane	19.54	129	1179	0.092	ng	88
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	23362	0.552	ng	91
63) n-Octane	20.27	57	7140	0.547	ng	99
64) Tetrachloroethene	20.46	166	4109	0.329	ng	95
65) Chlorobenzene	21.37	112	1069	N.D.		
66) Ethylbenzene	21.82	91	135613	2.197	ng	99
67) m- & p-Xylenes	22.04	91	405173	8.115	ng	98
68) Bromoform	22.15	173	188	N.D.		
69) Styrene	22.50	104	12803	0.355	ng	97
70) o-Xylene	22.65	91	144737	2.891	ng	97
71) n-Nonane	22.91	43	13768	0.414	ng	96
72) 1,1,2,2-Tetrachloroethane	22.71	83	534	N.D.		
74) Cumene	23.41	105	7906	0.125	ng	86
75) alpha-Pinene	23.90	93	128638	3.968	ng	74
76) n-Propylbenzene	24.05	91	29639	0.373	ng	98
77) 3-Ethyltoluene	24.17	105	78455	1.298	ng	99
78) 4-Ethyltoluene	24.22	105	40706	0.695	ng	96
79) 1,3,5-Trimethylbenzene	24.31	105	32244	0.653	ng	100

131

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210905.D
 Acq On : 21 Aug 2009 10:36
 Operator : WA
 Sample : P0902805-002 dil (200mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

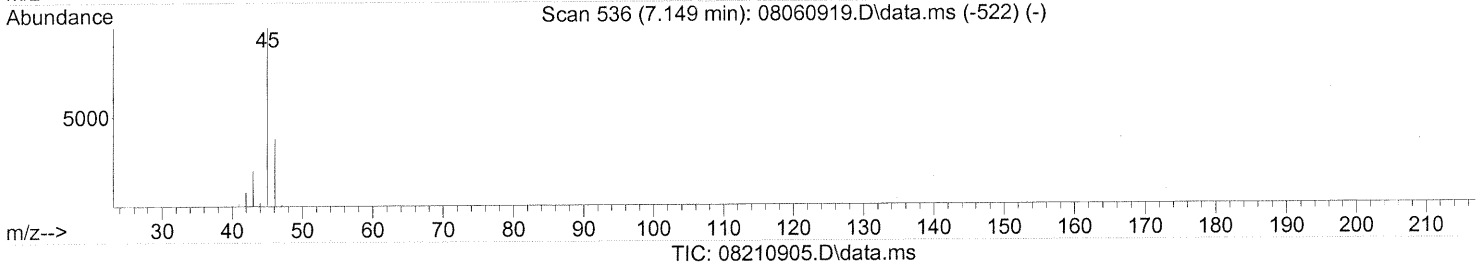
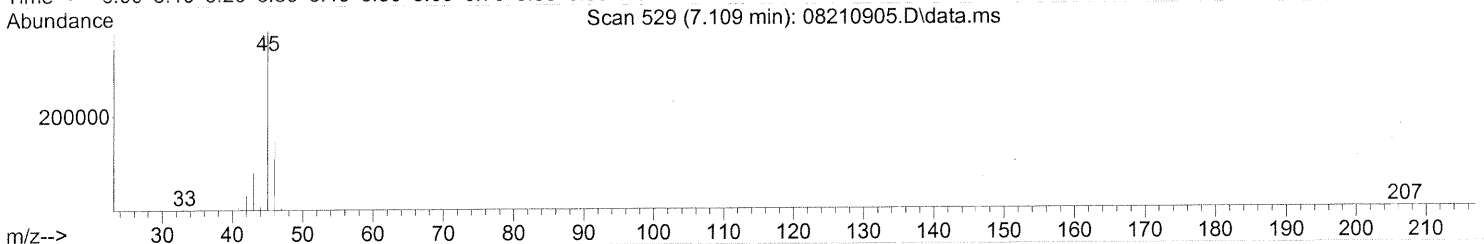
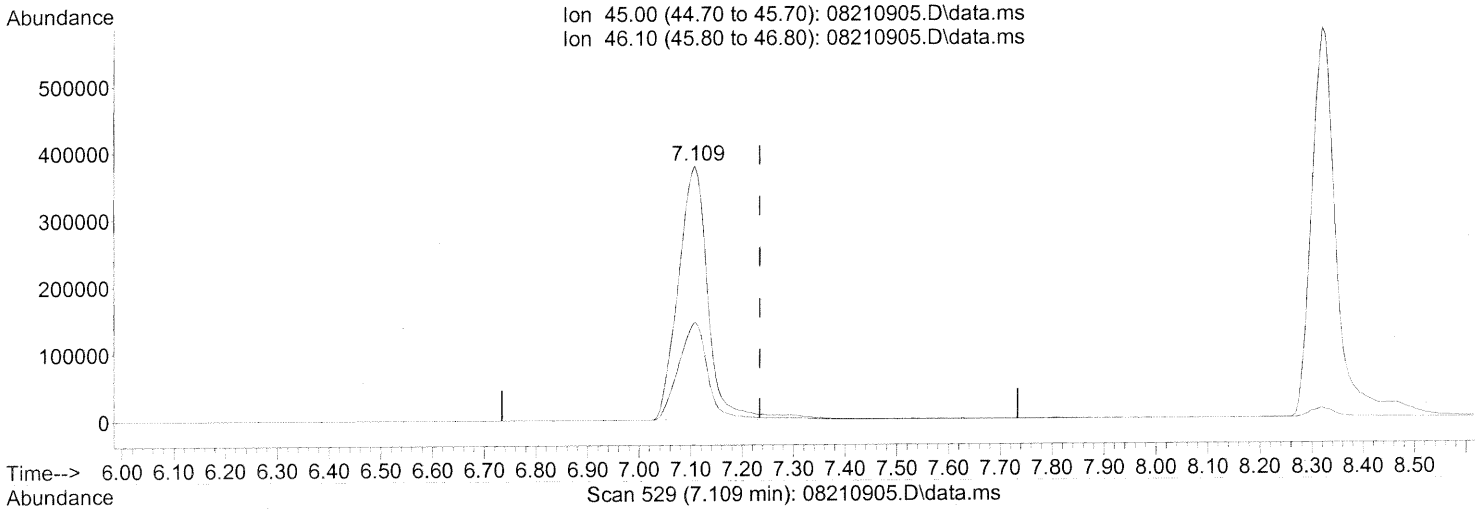
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	816	N.D.		
81) 2-Ethyltoluene	24.55	105	28168	0.462	ng	95
82) 1,2,4-Trimethylbenzene	24.83	105	108705	2.158	ng	88
83) n-Decane	24.93	57	24930	0.761	ng	92
84) Benzyl Chloride	25.00	91	4251	0.090	ng	62
85) 1,3-Dichlorobenzene	25.03	146	907	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1768	0.065	ng	80
87) sec-Butylbenzene	25.16	105	2595	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	16914	0.279	ng	87
89) 1,2,3-Trimethylbenzene	25.35	105	23160	0.451	ng	98
90) 1,2-Dichlorobenzene	25.53	146	711	N.D.		
91) d-Limonene	25.53	68	74490	3.478	ng	# 65
92) 1,2-Dibromo-3-Chloropr...	26.07	157	709	0.085	ng	# 1
93) n-Undecane	26.46	57	75561	2.169	ng	94
94) 1,2,4-Trichlorobenzene	27.59	180	2193	0.132	ng	# 86
95) Naphthalene	27.73	128	27164	0.397	ng	99
96) n-Dodecane	27.70	57	28036	0.693	ng	97
97) Hexachlorobutadiene	28.14	225	1469	0.139	ng	99
98) Cyclohexanone	22.31	55	4838	0.216	ng	96
99) tert-Butylbenzene	24.83	119	13472	0.276	ng	# 56
100) n-Butylbenzene	25.86	91	6939	0.124	ng	# 60

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210905.D
Acq On : 21 Aug 2009 10:36
Operator : WA
Sample : P0902805-002 dil (200mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.109min (-0.126) 135.00ng

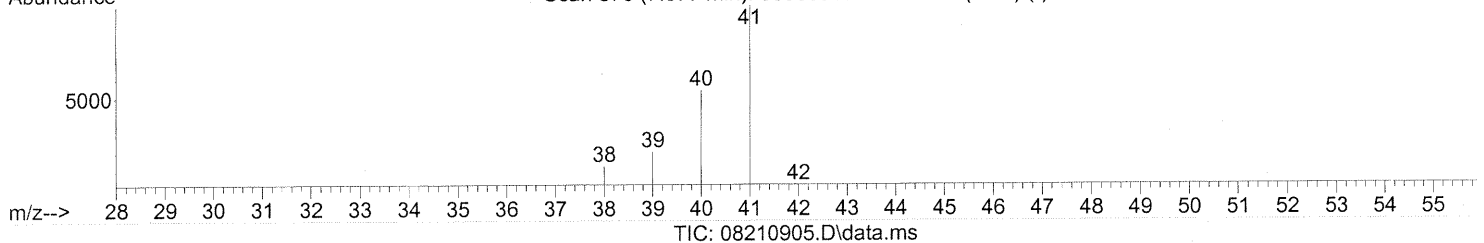
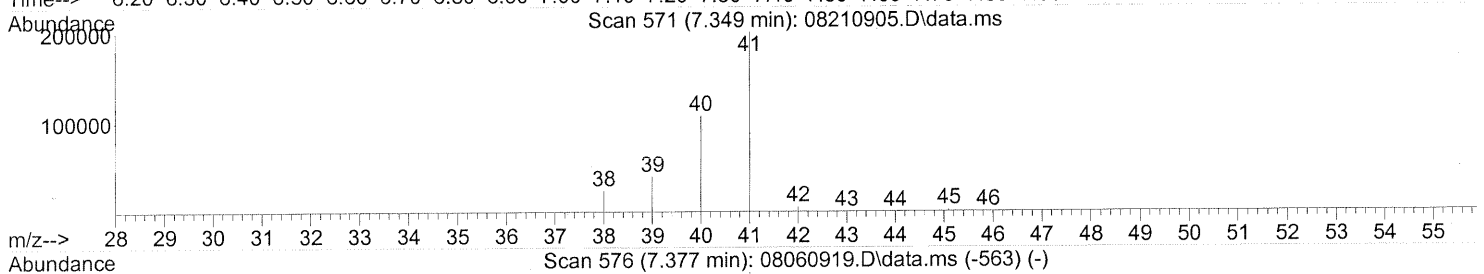
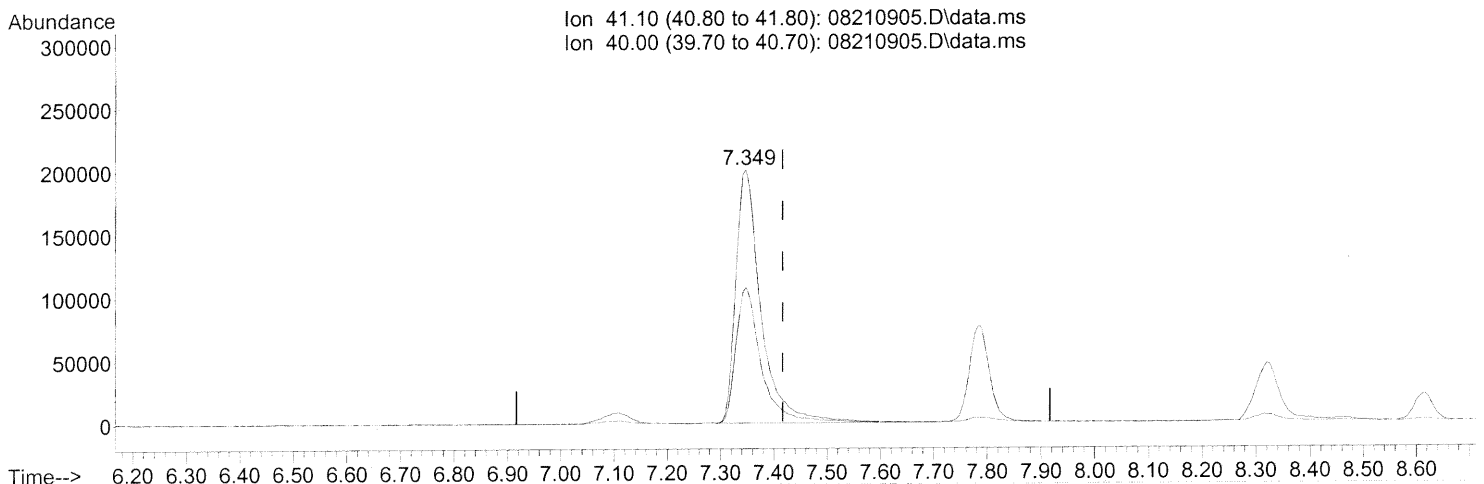
response 1537562

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	37.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210905.D
 Acq On : 21 Aug 2009 10:36
 Operator : WA
 Sample : P0902805-002 dil (200mL)
 Misc : Environmental Health 101310
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.349min (-0.069) 19.93ng

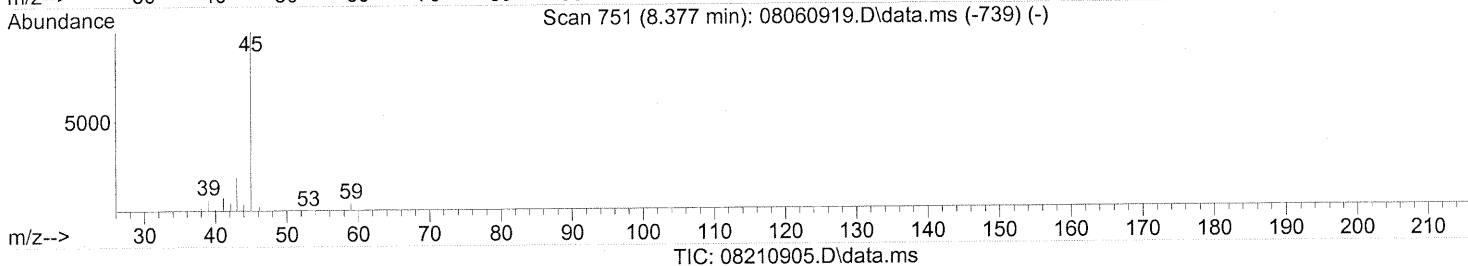
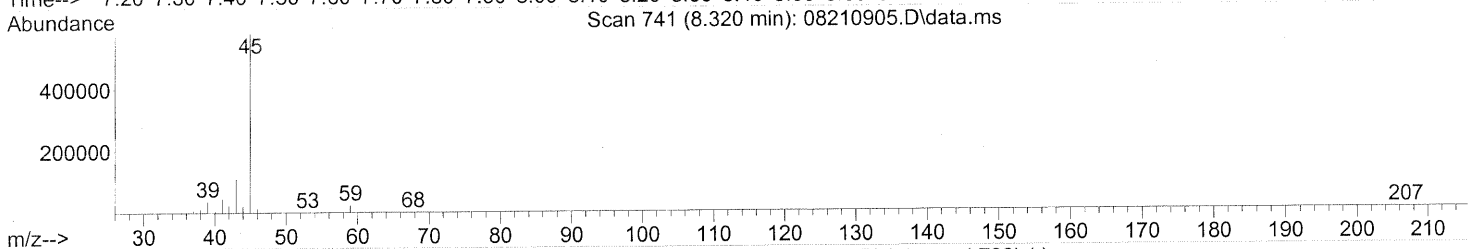
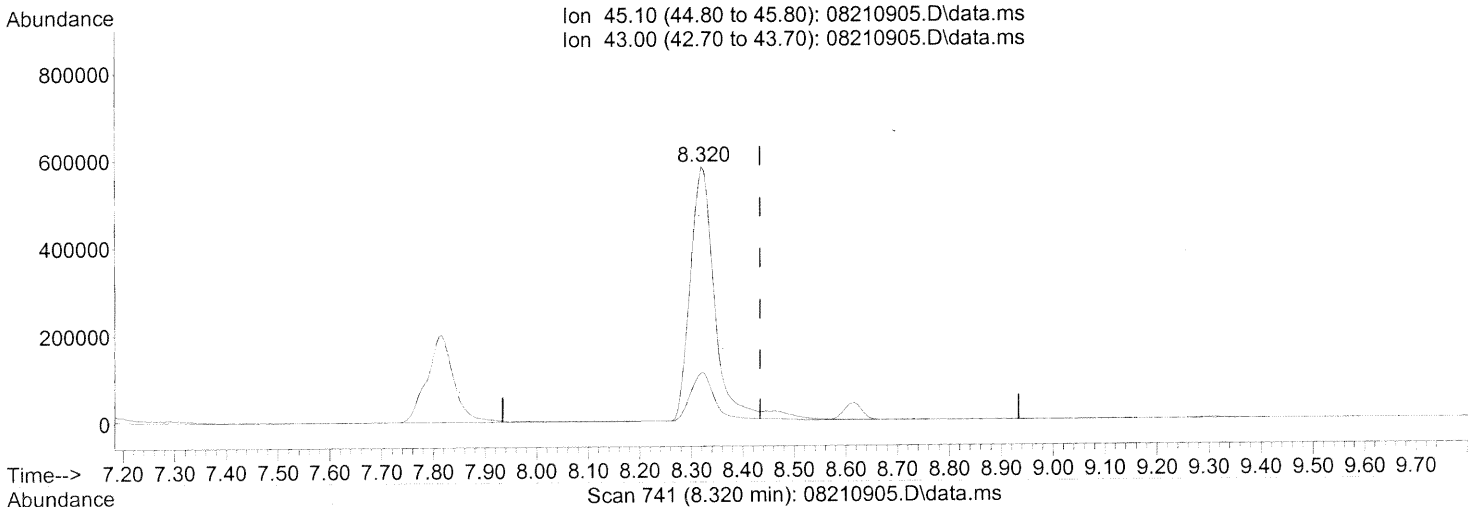
response 664804

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210905.D
Acq On : 21 Aug 2009 10:36
Operator : WA
Sample : P0902805-002 dil (200mL)
Misc : Environmental Health 101310
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 15:01:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.320min (-0.114) 47.17ng

response 1991877

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.86
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101311

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00847

Date Collected: 8/13/09

Date Received: 8/14/09

Date Analyzed: 8/20/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.1	0.66	0.61	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.66	0.52	0.13	
74-87-3	Chloromethane	0.53	0.13	0.26	0.064	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	ND	0.094	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.060	
74-83-9	Bromomethane	ND	0.13	ND	0.034	
75-00-3	Chloroethane	ND	0.13	ND	0.050	
64-17-5	Ethanol	15	6.6	7.9	3.5	
75-05-8	Acetonitrile	2.2	0.66	1.3	0.39	
107-02-8	Acrolein	1.2	0.66	0.53	0.29	
67-64-1	Acetone	13	6.6	5.6	2.8	
75-69-4	Trichlorofluoromethane	1.2	0.13	0.22	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	0.66	0.70	0.27	
107-13-1	Acrylonitrile	ND	0.66	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.033	
75-09-2	Methylene Chloride	ND	0.66	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.042	
76-13-1	Trichlorotrifluoroethane	0.66	0.13	0.086	0.017	
75-15-0	Carbon Disulfide	ND	0.66	ND	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.033	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.037	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	1.4	0.66	0.49	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/3/09

136

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101311
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00847

CAS Project ID: P0902805
 CAS Sample ID: P0902805-003

Date Collected: 8/13/09
 Date Received: 8/14/09
 Date Analyzed: 8/20/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.32

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	ND	0.66	ND	0.18	
110-54-3	n-Hexane	1.1	0.66	0.31	0.19	
67-66-3	Chloroform	ND	0.13	ND	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	0.66	ND	0.22	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	0.73	0.13	0.23	0.041	
56-23-5	Carbon Tetrachloride	0.50	0.13	0.080	0.021	
110-82-7	Cyclohexane	ND	0.66	ND	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.020	
79-01-6	Trichloroethene	ND	0.13	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	0.66	ND	0.16	
142-82-5	n-Heptane	ND	0.66	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.15	
108-10-1	4-Methyl-2-pentanone	0.89	0.66	0.22	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	3.1	0.66	0.83	0.18	
591-78-6	2-Hexanone	ND	0.66	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	1.0	0.66	0.21	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

P

Date: _____

9/3/09

137

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101311
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00847

CAS Project ID: P0902805
CAS Sample ID: P0902805-003

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/20/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	0.83	0.13	0.12	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.029	
100-41-4	Ethylbenzene	3.3	0.66	0.77	0.15	
179601-23-1	m,p-Xylenes	13	0.66	3.0	0.15	
75-25-2	Bromoform	ND	0.66	ND	0.064	
100-42-5	Styrene	ND	0.66	ND	0.16	
95-47-6	o-Xylene	4.8	0.66	1.1	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	ND	0.66	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.66	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.3	0.66	0.27	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
5989-27-5	d-Limonene	ND	0.66	ND	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.66	ND	0.068	
120-82-1	1,2,4-Trichlorobenzene	ND	0.66	ND	0.089	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

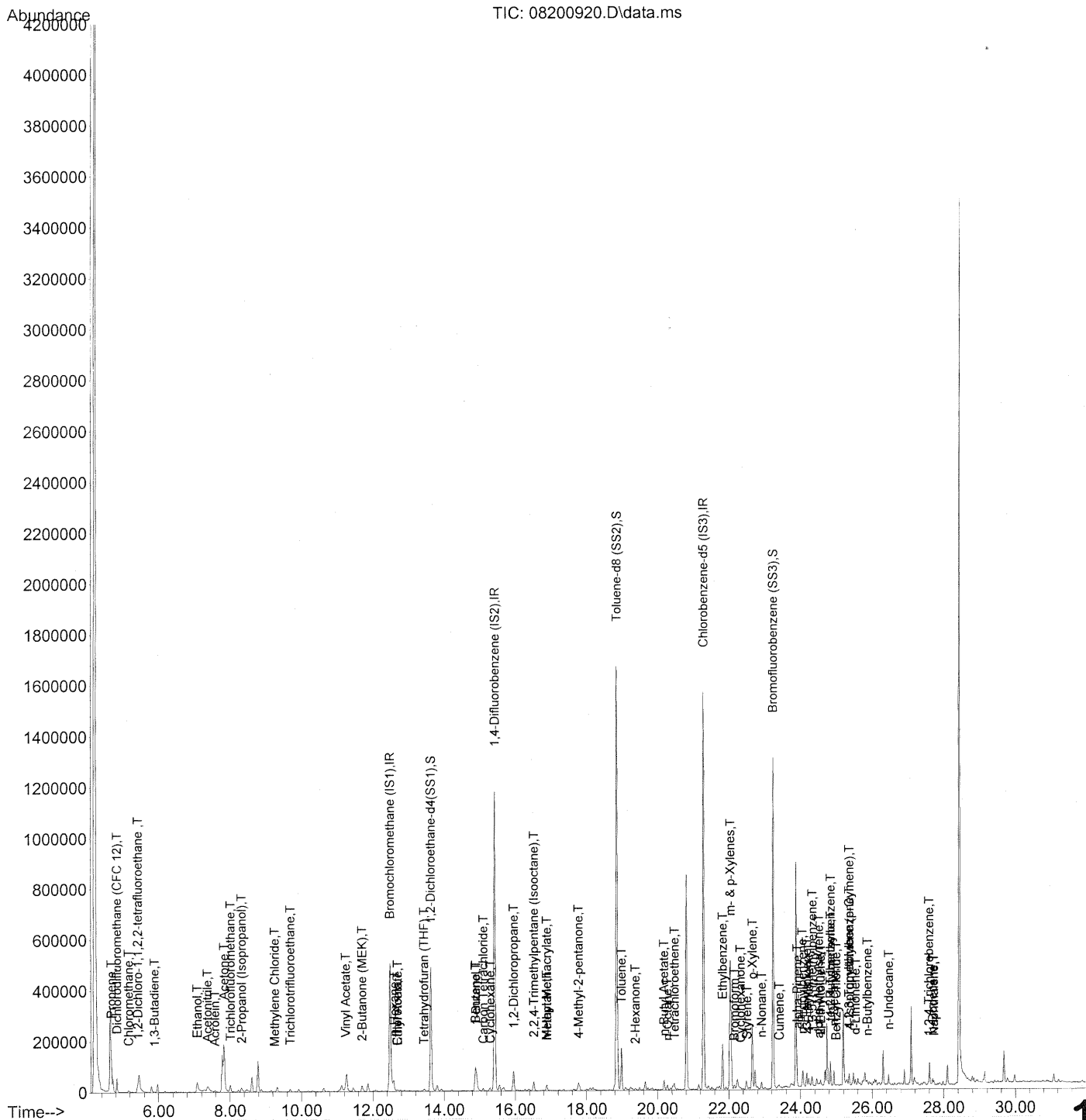
Date: _____

9/3/09

138

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 14:40:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 14:40:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	268136	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1356750	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	663284	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.62	65	523123	22.446	ng	-0.04	89.80%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.85	98	1479036	25.520	ng	-0.02	102.08%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.23	174	428519	28.037	ng	-0.01	112.16%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	14668m	0.797	ng	
3) Dichlorodifluoromethan...	4.82	85	58747	1.953	ng	99
4) Chloromethane	5.16	50	8150	0.403	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	967	0.079	ng #	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	1125	0.081	ng #	62
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.08	45	131791	11.300	ng	86
11) Acetonitrile	7.37	41	57724	1.690	ng	86
12) Acrolein	7.58	56	8240	0.928	ng	83
13) Acetone	7.83	58	111185	10.103	ng	88
14) Trichlorofluoromethane	8.01	101	25202	0.927	ng	98
15) 2-Propanol (Isopropanol)	8.33	45	56743m	1.312	ng	
16) Acrylonitrile	8.61	53	748	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	406	N.D.		
19) Methylene Chloride	9.25	84	1954	0.132	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.68	151	4926	0.498	ng	97
22) Carbon Disulfide	9.63	76	2275	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.23	86	5223	2.332	ng #	1
27) 2-Butanone (MEK)	11.69	72	10879	1.095	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.69	61	340	0.066	ng #	8
31) n-Hexane	12.59	57	21718	0.820	ng	98

140

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 14:40:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	1769	0.076	ng	86
34) Tetrahydrofuran (THF)	13.43	72	1980	0.187	ng #	58
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	470	N.D.		
38) 1,1,1-Trichloroethane	14.18	97	381	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	95832	5.442	ng	80
41) Benzene	14.88	78	32793	0.550	ng	100
42) Carbon Tetrachloride	15.10	117	7196	0.379	ng	97
43) Cyclohexane	15.29	84	5279	0.242	ng	90
44) tert-Amyl Methyl Ether	16.13	73	837	N.D.		
45) 1,2-Dichloropropane	15.95	63	1095	0.073	ng #	1
46) Bromodichloromethane	16.38	83	858	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.53	88	116	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	38757	0.552	ng	94
50) Methyl Methacrylate	16.88	100	1889	0.344	ng #	1
51) n-Heptane	16.88	71	7266	0.454	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	9619	0.671	ng	98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	135054	2.371	ng	99
59) 2-Hexanone	19.37	43	6681	0.176	ng	80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	34283	0.768	ng	94
63) n-Octane	20.27	57	3867	0.281	ng	93
64) Tetrachloroethene	20.47	166	8280	0.628	ng	96
65) Chlorobenzene	21.38	112	460	N.D.		
66) Ethylbenzene	21.82	91	164503	2.526	ng	98
67) m- & p-Xylenes	22.04	91	516626	9.809	ng	98
68) Bromoform	22.15	173	1395	0.125	ng	88
69) Styrene	22.50	104	4103	0.108	ng	95
70) o-Xylene	22.65	91	191321	3.623	ng	98
71) n-Nonane	22.91	43	11309	0.322	ng #	80
72) 1,1,2,2-Tetrachloroethane	22.64	83	114	N.D.		
74) Cumene	23.41	105	7718	0.116	ng	99
75) alpha-Pinene	23.90	93	9001	0.263	ng #	42
76) n-Propylbenzene	24.05	91	16564	0.198	ng #	84
77) 3-Ethyltoluene	24.17	105	35950	0.564	ng	100
78) 4-Ethyltoluene	24.22	105	18670	0.302	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	16575	0.318	ng	95

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Quant Time: Aug 21 14:40:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

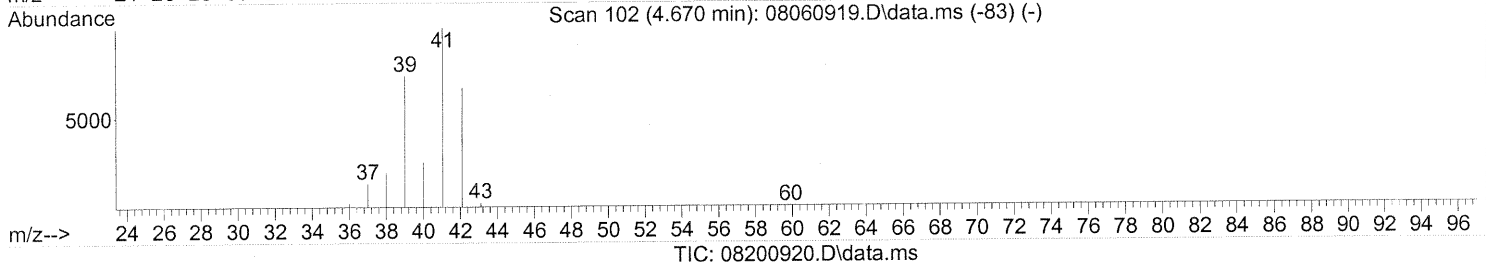
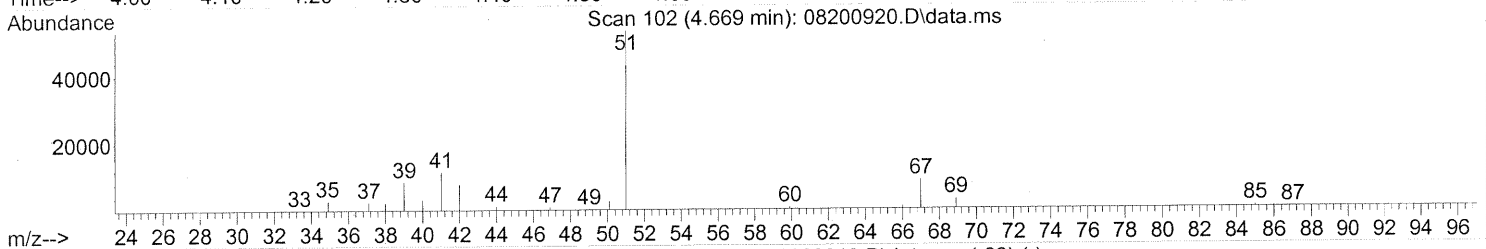
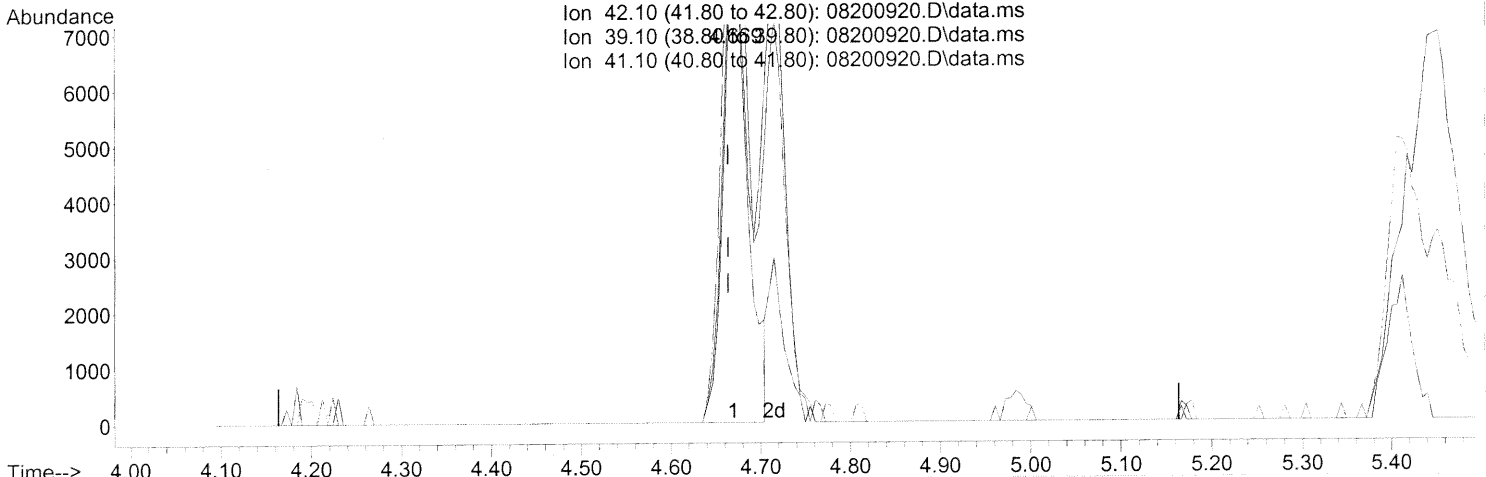
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	1412	0.051	ng	# 79
81) 2-Ethyltoluene	24.55	105	16430	0.256	ng	92
82) 1,2,4-Trimethylbenzene	24.83	105	52608	0.990	ng	89
83) n-Decane	24.93	57	21633	0.626	ng	91
84) Benzyl Chloride	24.99	91	3608	0.072	ng	# 57
85) 1,3-Dichlorobenzene	25.10	146	1257	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1257	N.D.		
87) sec-Butylbenzene	25.20	105	3385	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	4706	0.074	ng	# 49
89) 1,2,3-Trimethylbenzene	25.35	105	15956	0.295	ng	85
90) 1,2-Dichlorobenzene	25.10	146	1257	N.D.		
91) d-Limonene	25.53	68	5729	0.254	ng	# 75
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	15334	0.417	ng	83
94) 1,2,4-Trichlorobenzene	27.58	180	927	0.053	ng	# 78
95) Naphthalene	27.72	128	13899	0.193	ng	95
96) n-Dodecane	27.69	57	9222	0.216	ng	81
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	3973	0.168	ng	# 84
99) tert-Butylbenzene	24.83	119	6757	0.131	ng	# 56
100) n-Butylbenzene	25.86	91	6868	0.116	ng	# 57

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.669min (+0.006) 0.83ng

response 15298

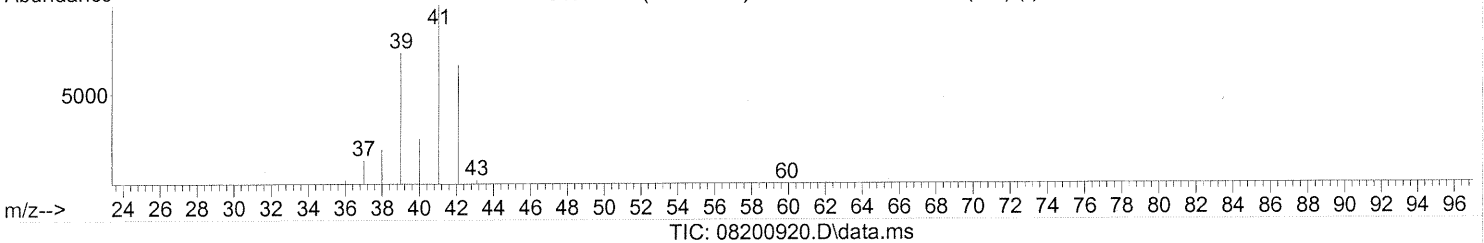
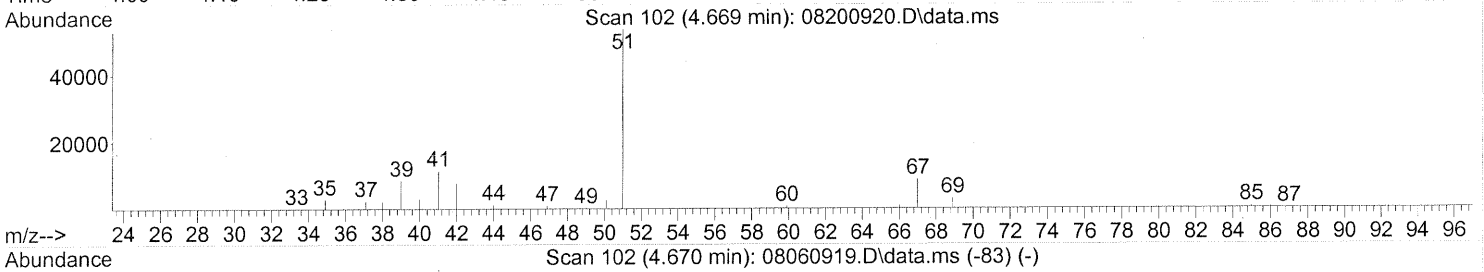
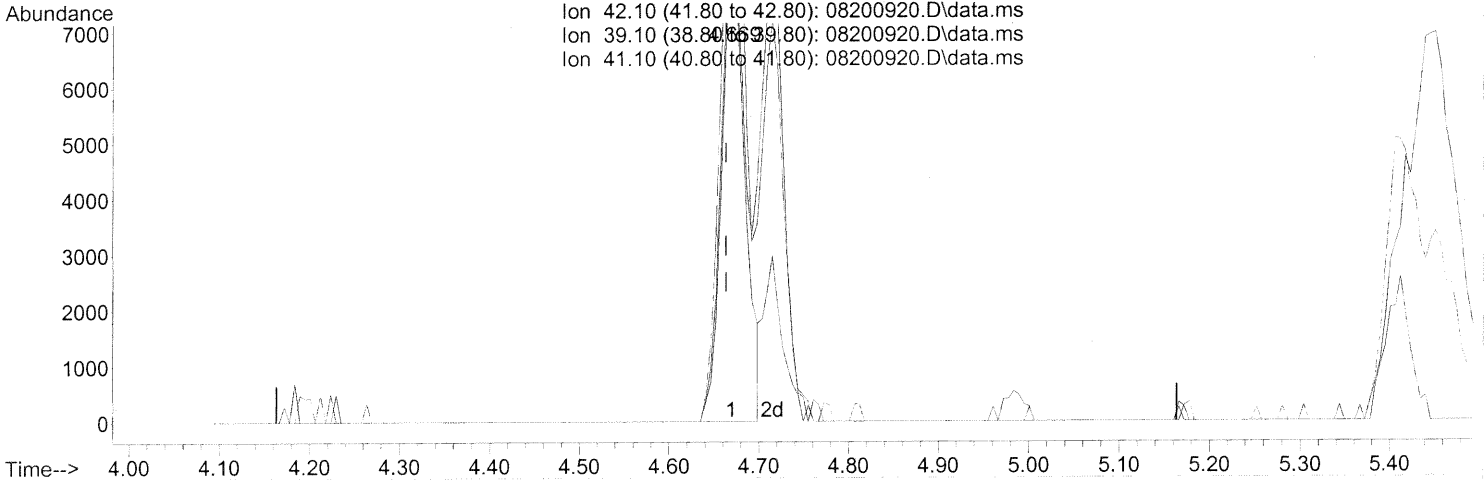
ipi

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	103.78
41.10	150.20	142.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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(2) Propene (T)

4.669min (+0.006) 0.80ng m

response 14668

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	108.24
41.10	150.20	148.53
0.00	0.00	0.00

IPI -> IC

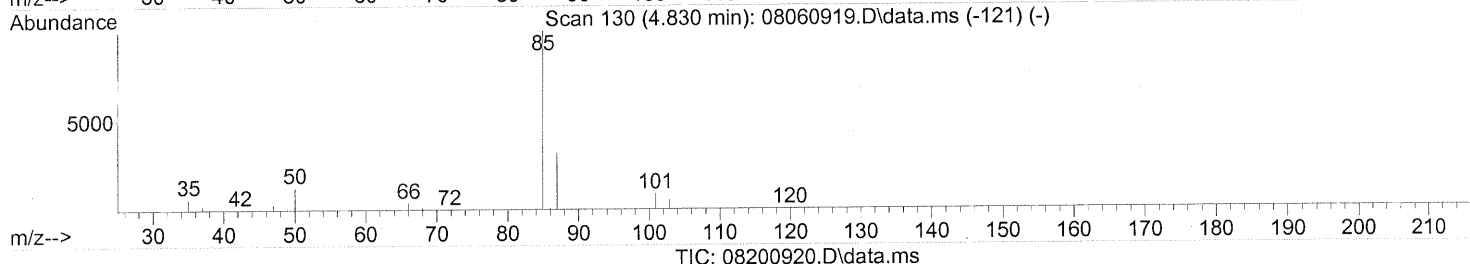
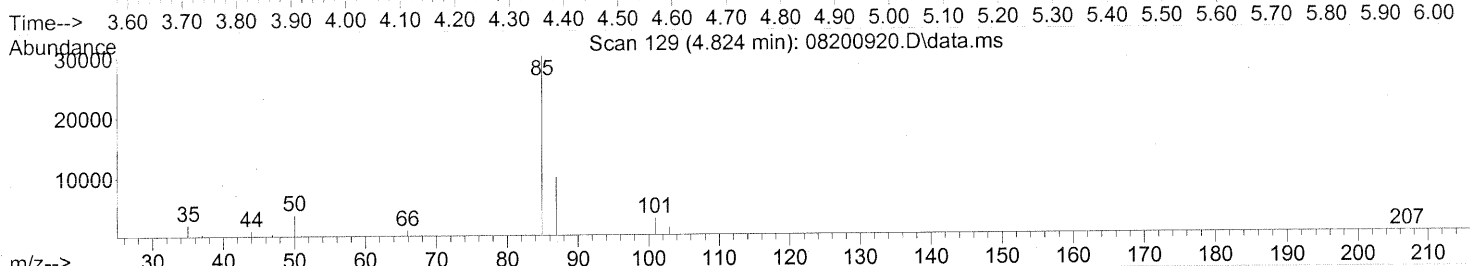
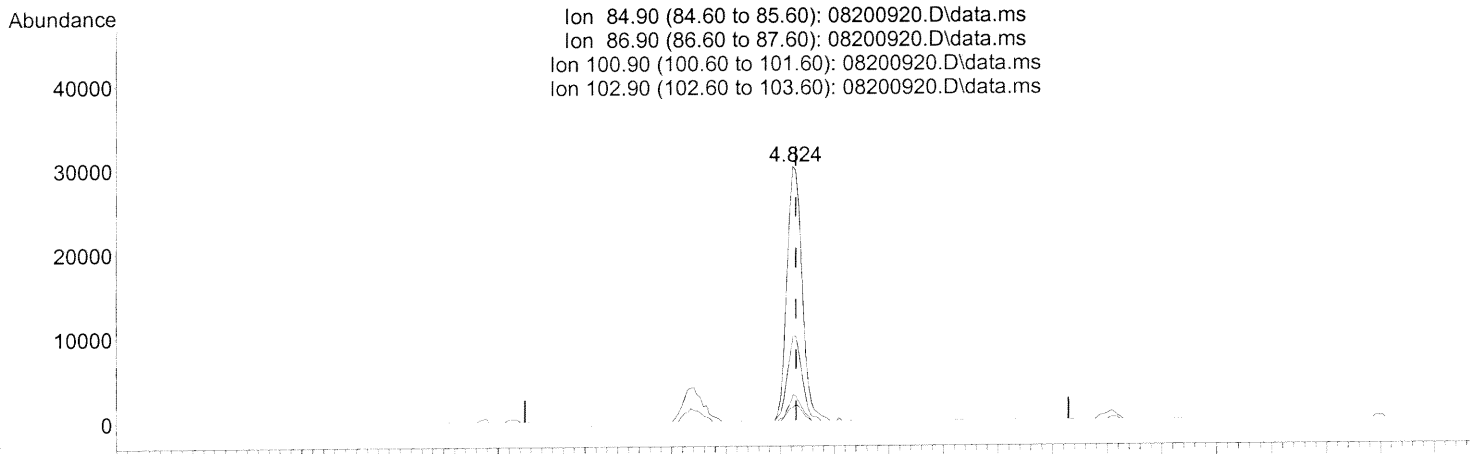
8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 1.95ng

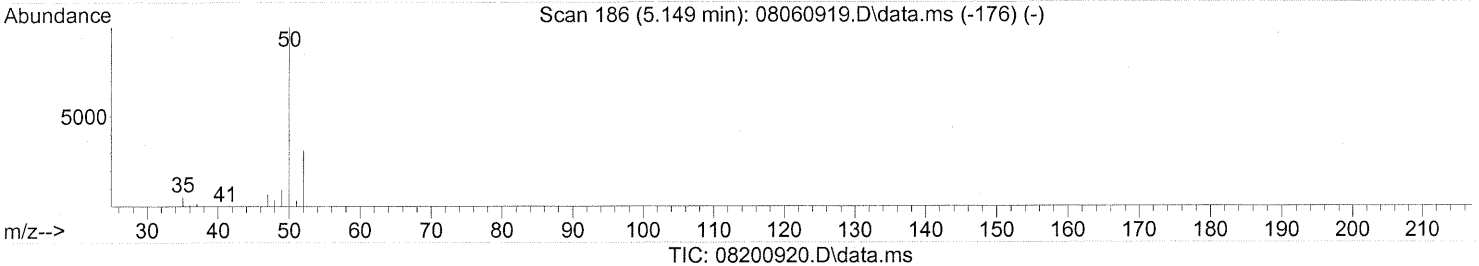
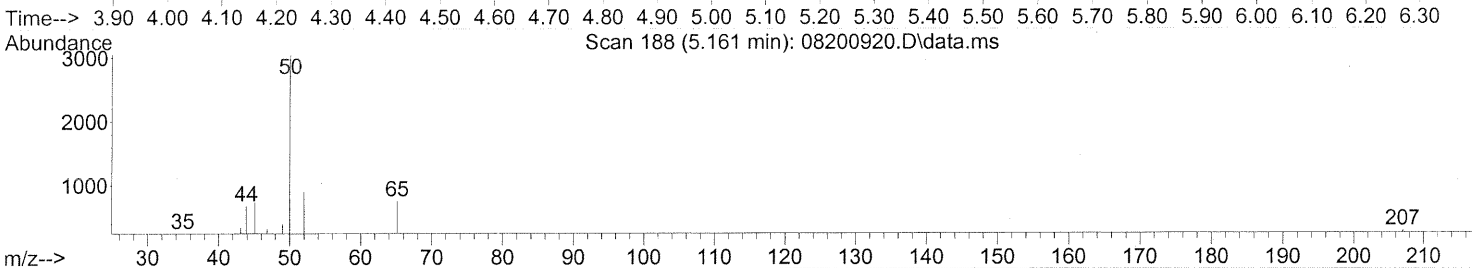
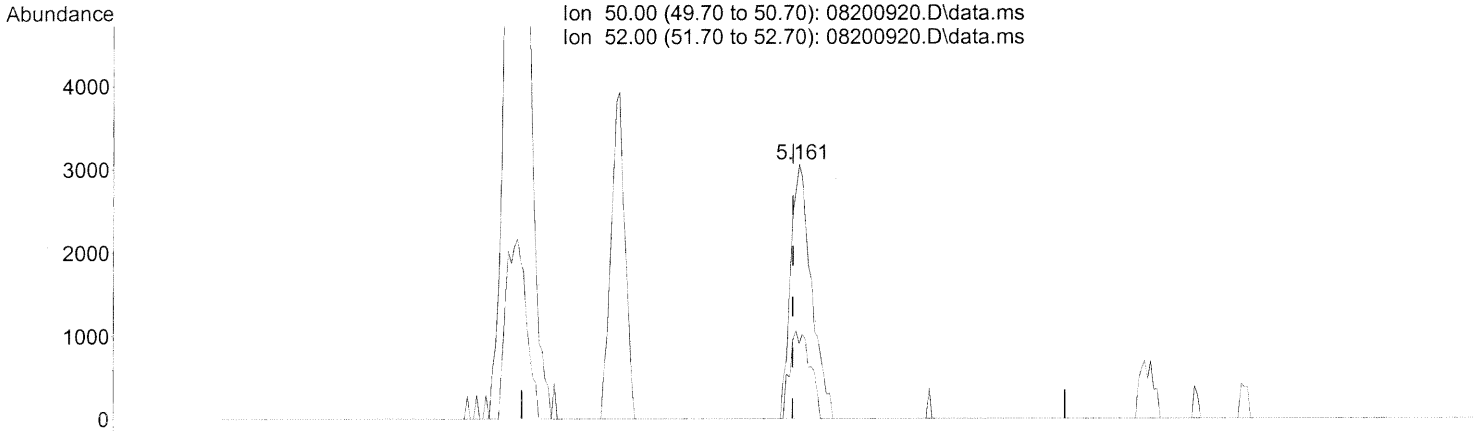
response 58747

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.07
100.90	8.80	8.60
102.90	5.20	5.57

Quantitation Report (Qedit)

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 Misc : Environmental Health 101311
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.161min (+0.011) 0.40ng

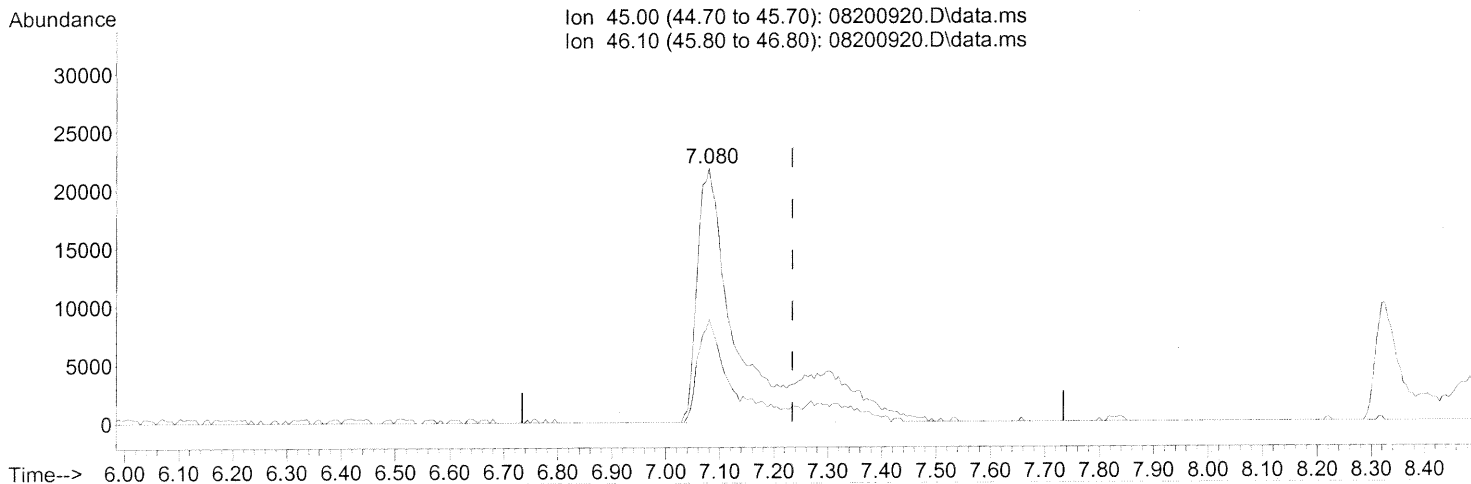
response 8150

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	33.82
0.00	0.00	0.00
0.00	0.00	0.00

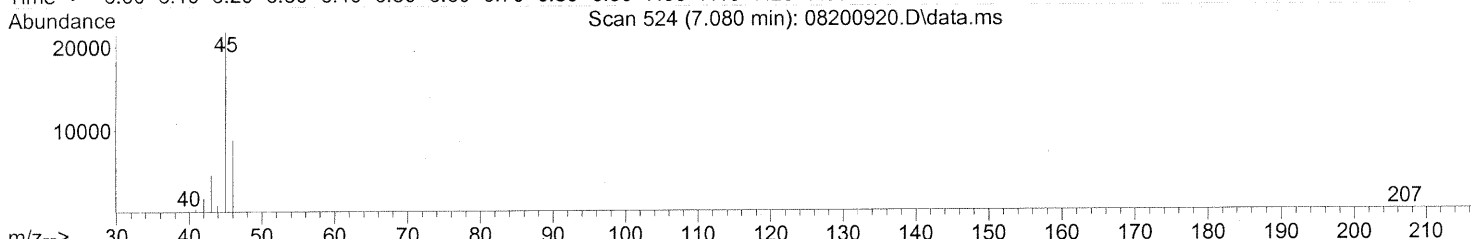
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

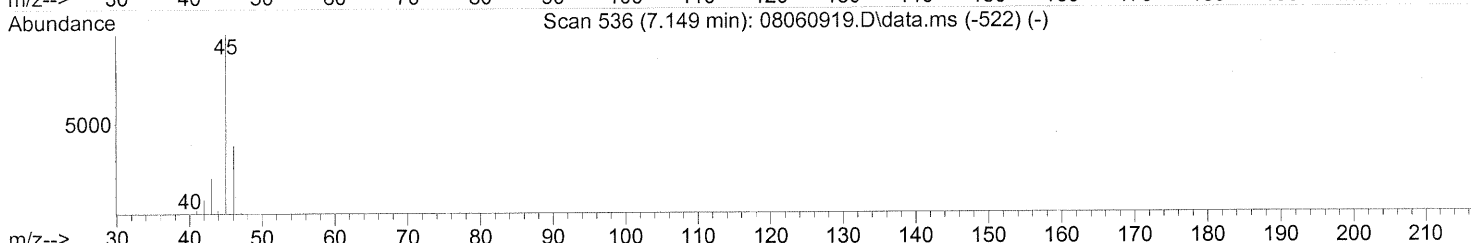
Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 45.00 (44.70 to 45.70): 08200920.D\data.ms
 Ion 46.10 (45.80 to 46.80): 08200920.D\data.ms



Scan 524 (7.080 min): 08200920.D\data.ms



Scan 536 (7.149 min): 08060919.D\data.ms (-522) (-)

TIC: 08200920.D\data.ms

(10) Ethanol (T)

7.080min (-0.154) 11.30ng

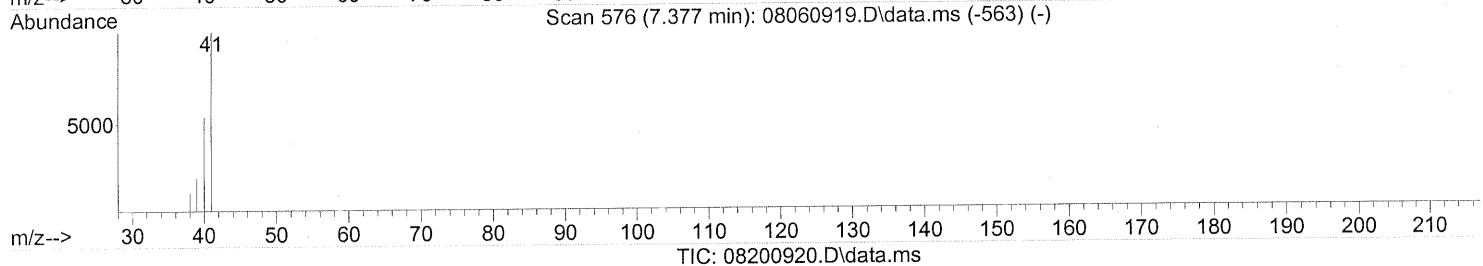
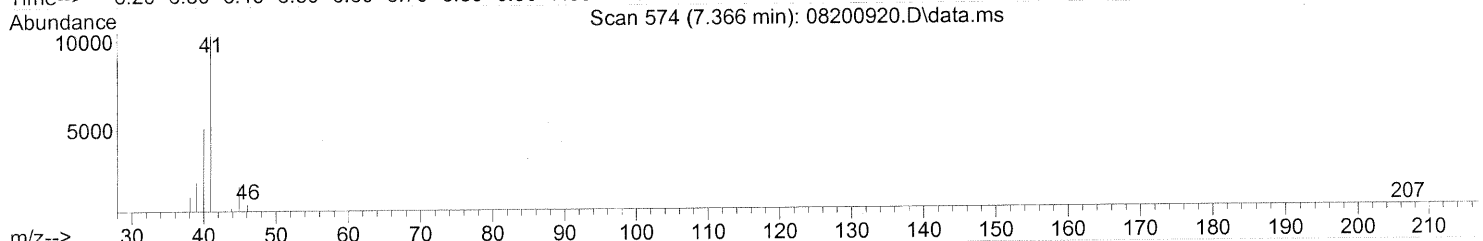
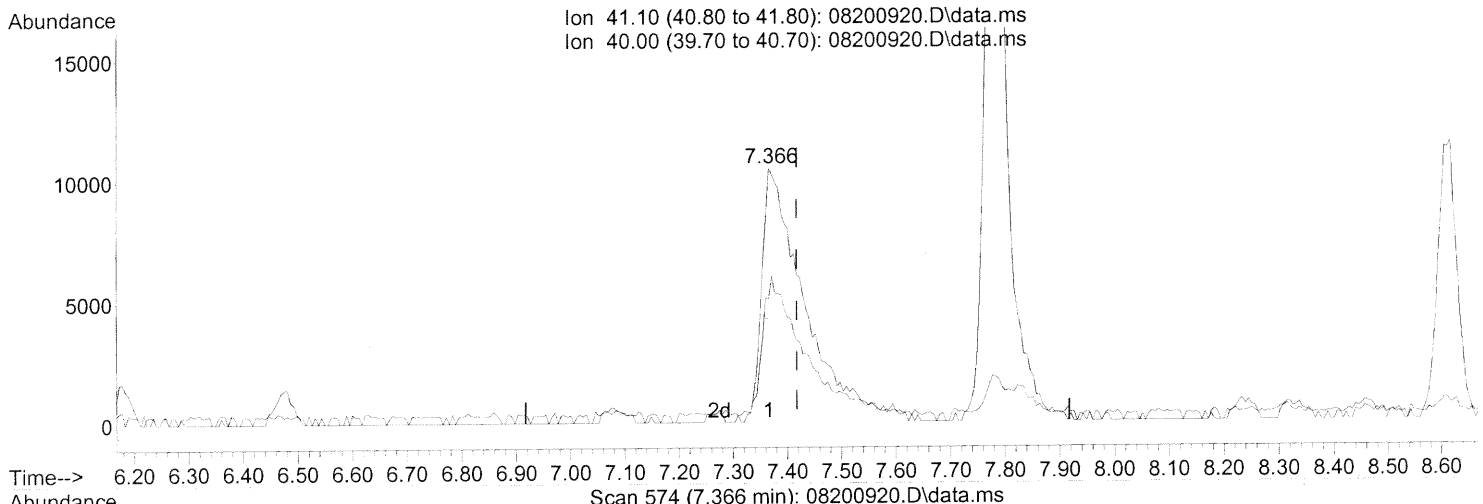
response 131791

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



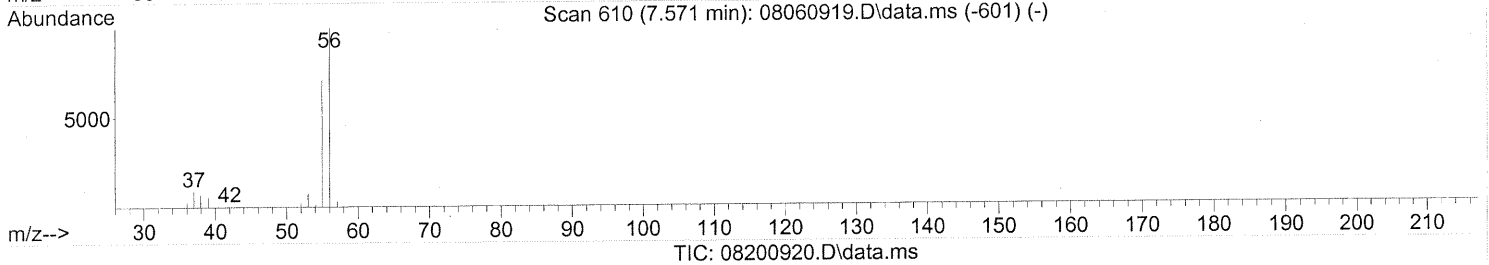
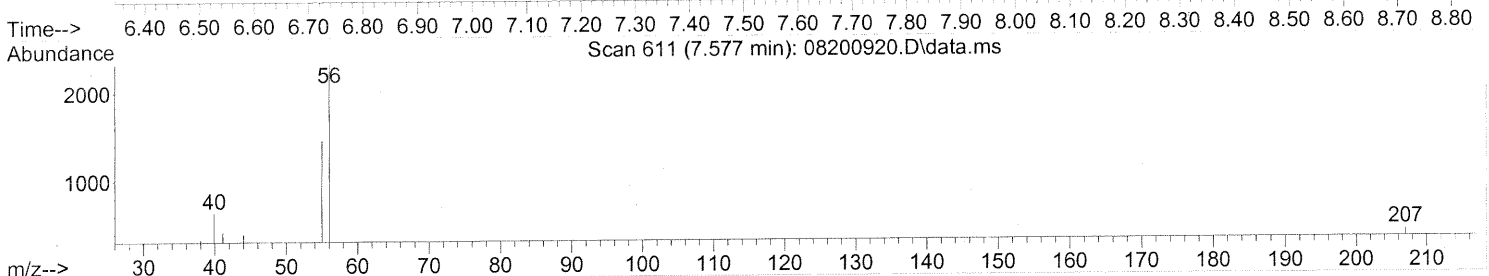
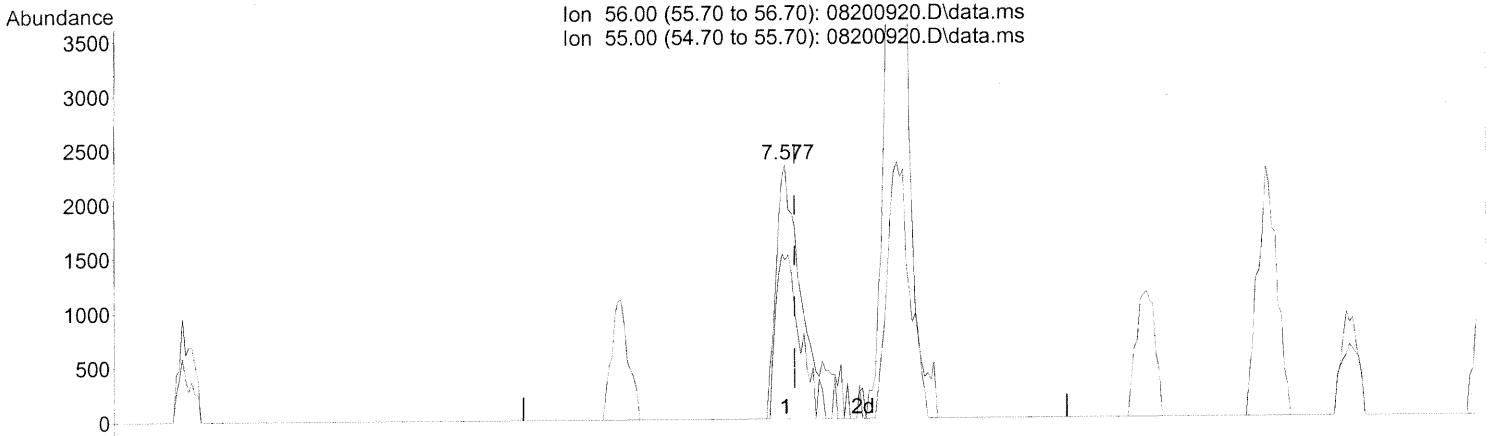
(11) Acetonitrile (T)
7.366min (-0.051) 1.69ng
response 57724

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	63.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



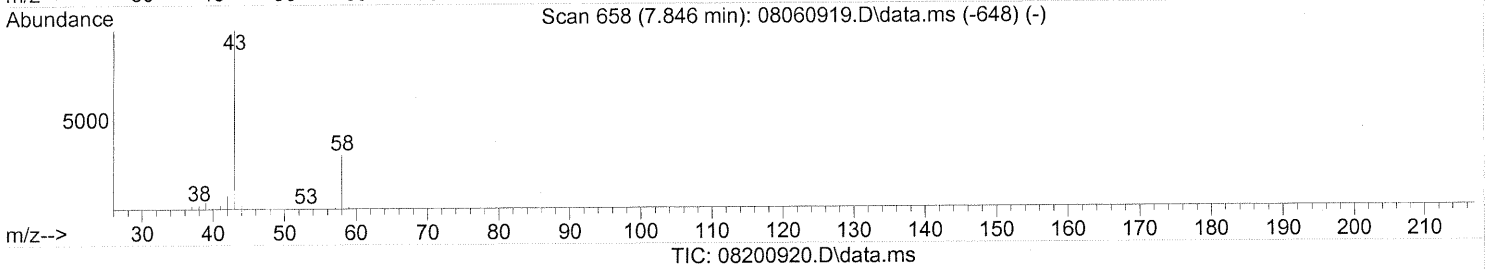
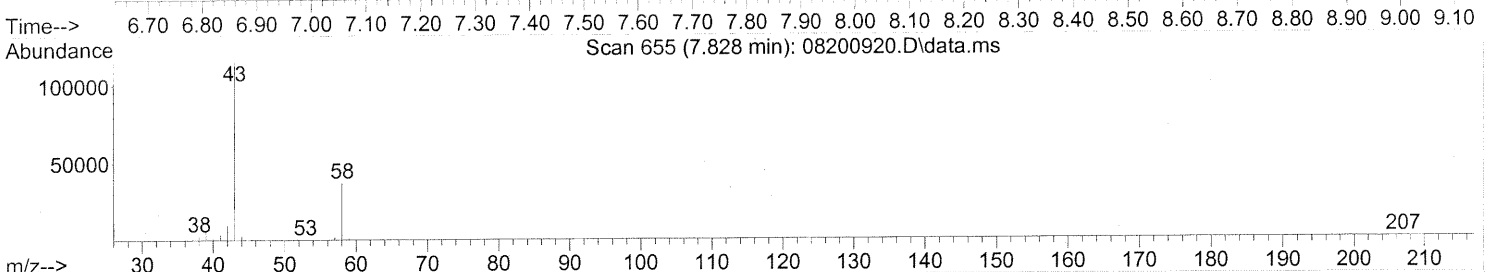
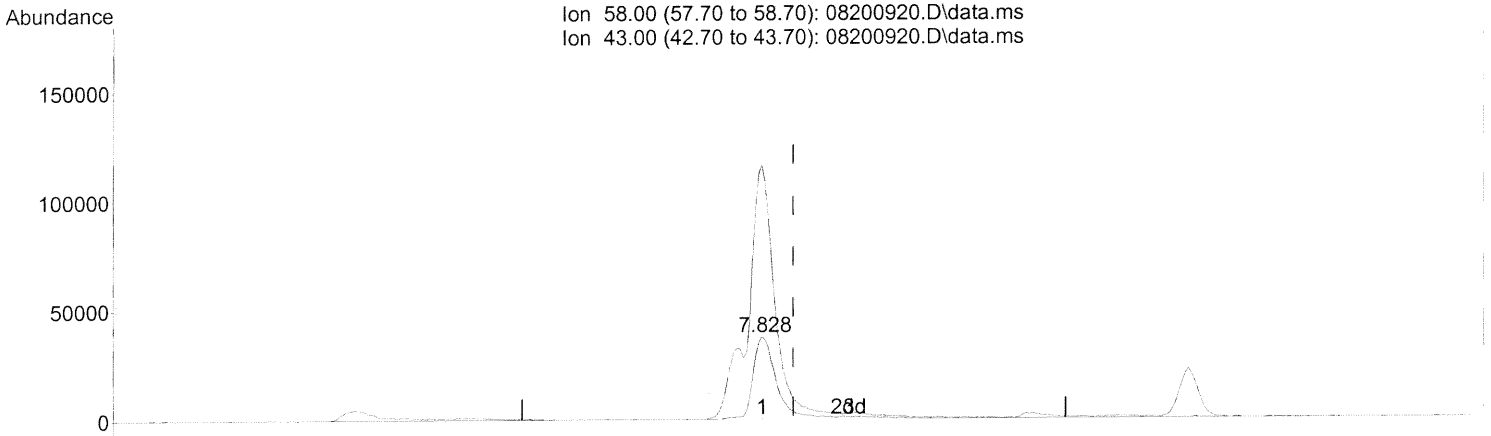
(12) Acrolein (T)
7.577min (-0.017) 0.93ng
response 8240

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	54.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



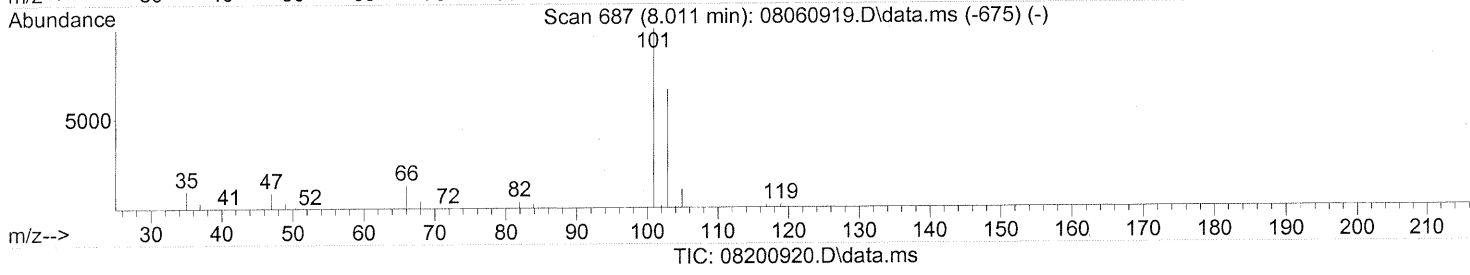
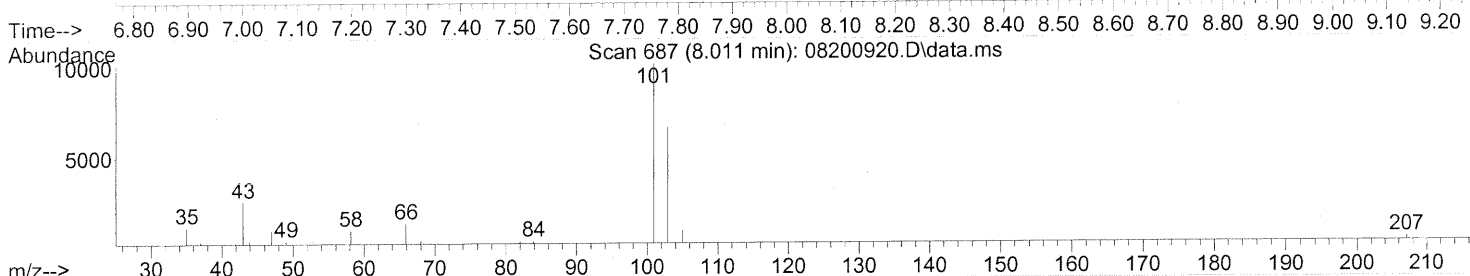
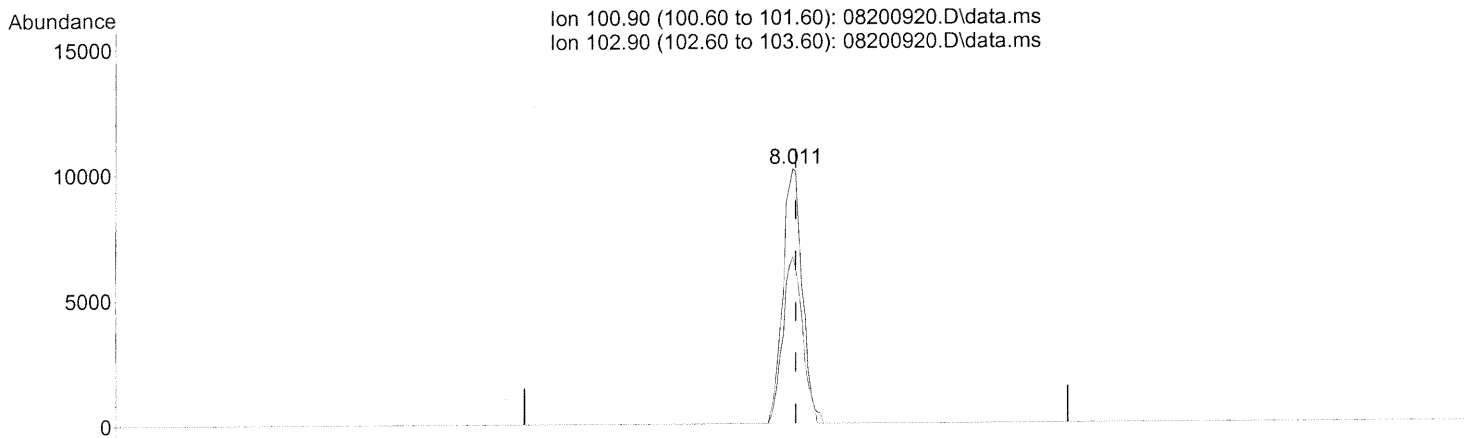
(13) Acetone (T)
 7.828min (-0.058) 10.10ng
 response 111185

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	314.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.93ng

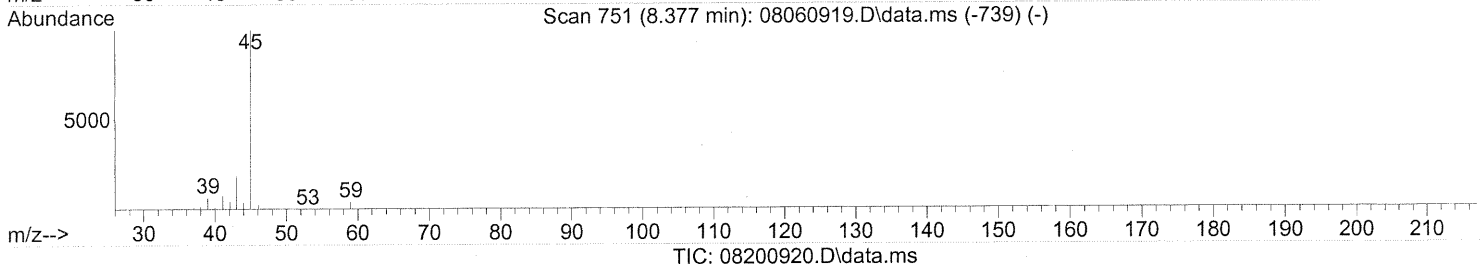
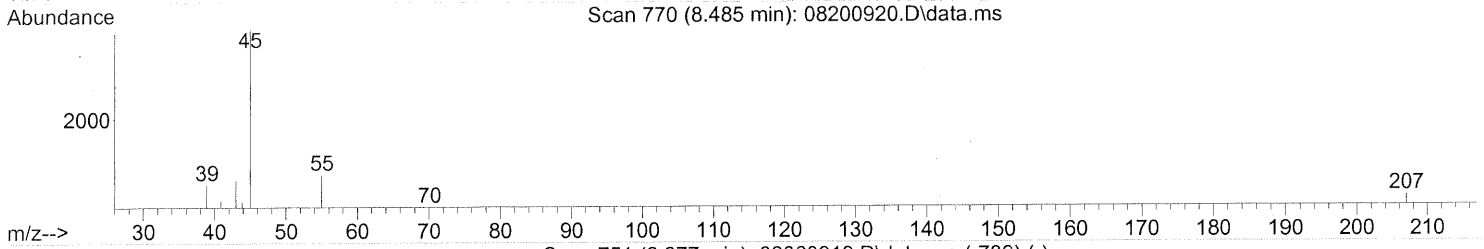
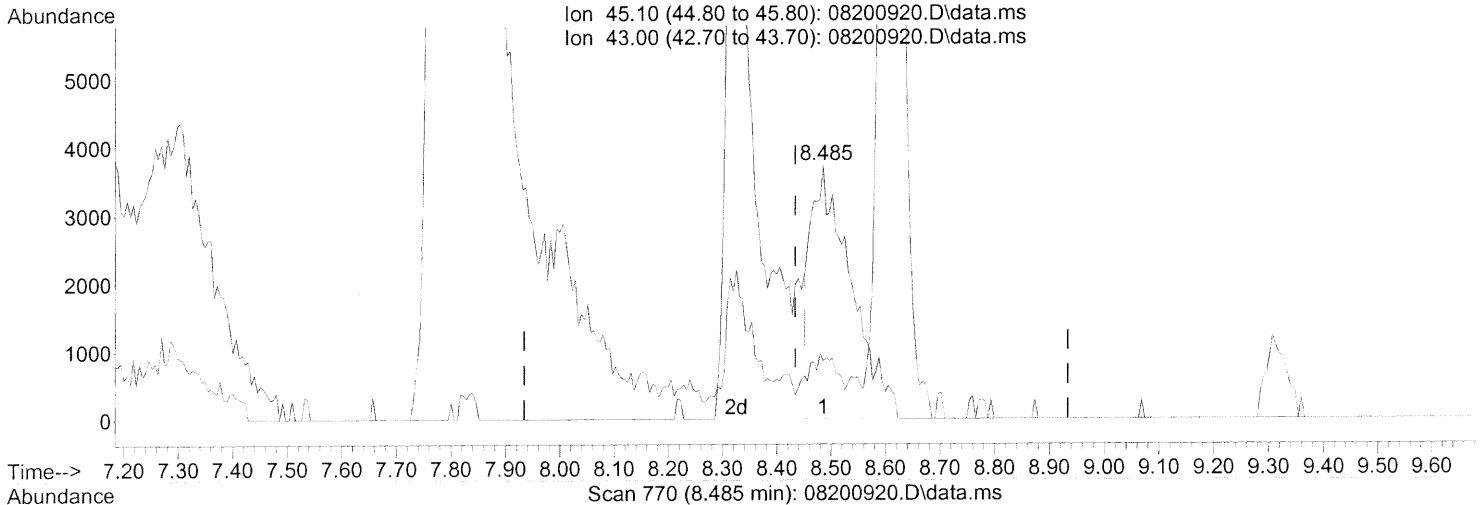
response 25202

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.485min (+0.051) 0.44ng

response 19140

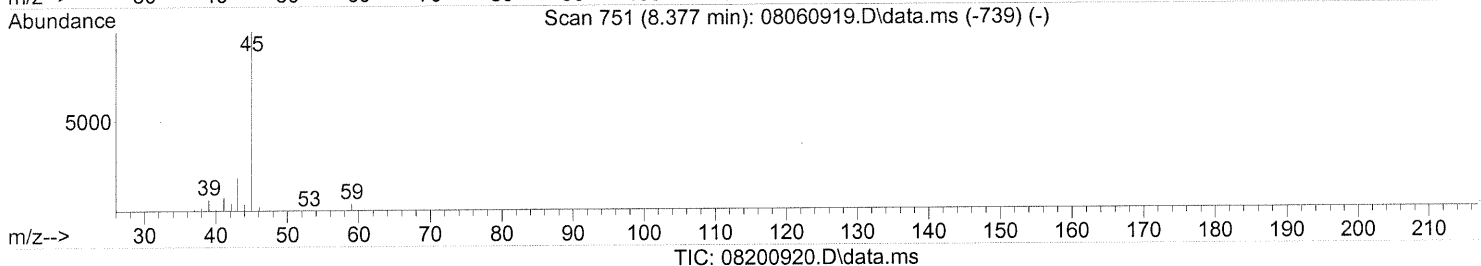
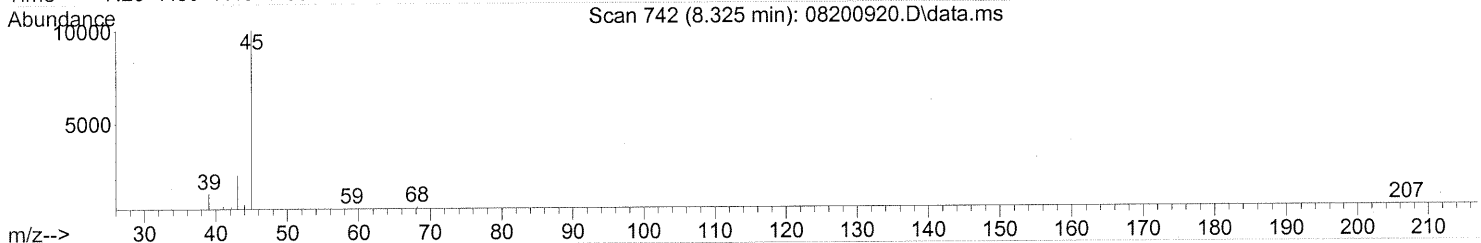
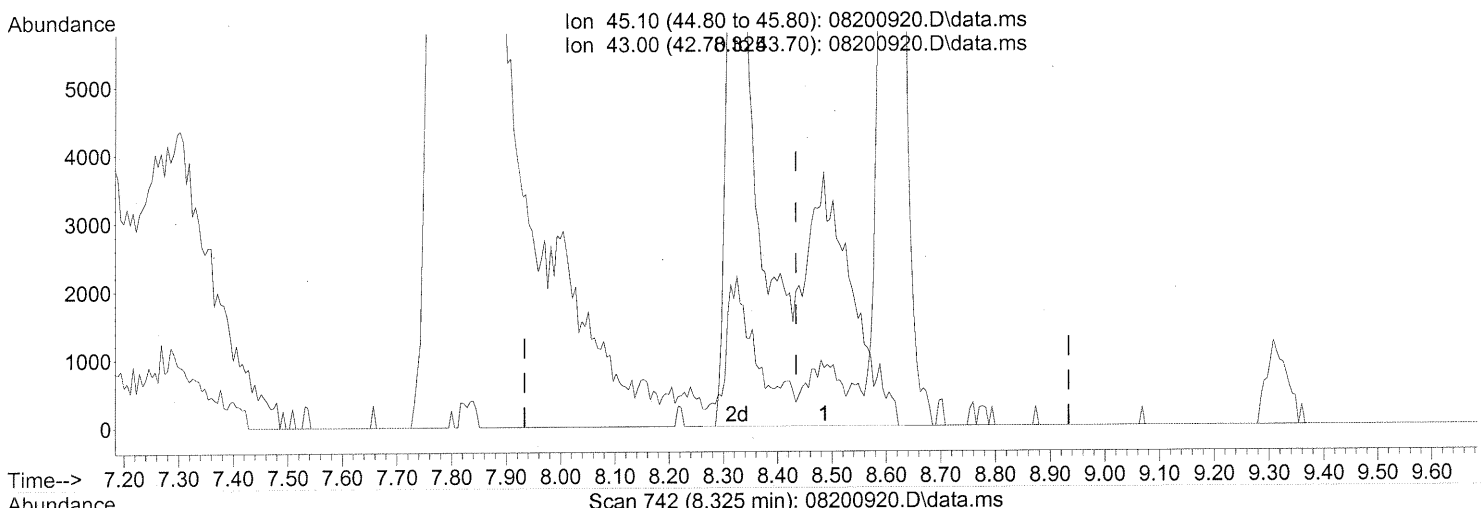
SP

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	21.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.325min (-0.109) 1.31ng m

response 56743

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	7.25
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

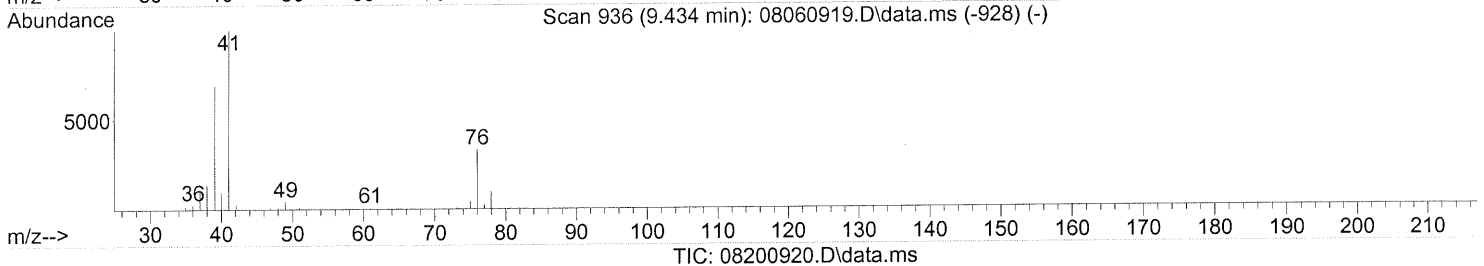
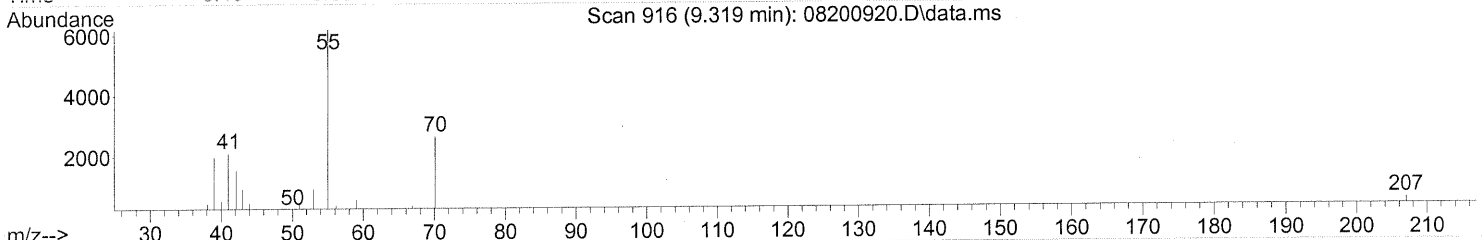
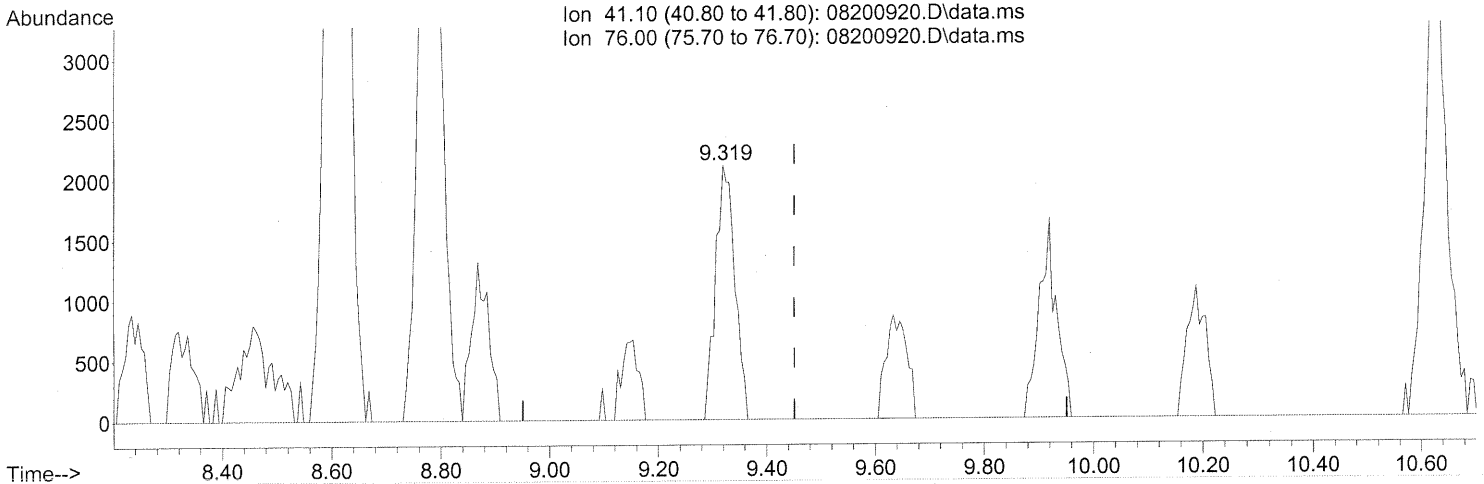
DA 8/22/09

← R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.319min (-0.131) 0.18ng

response 5234

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP

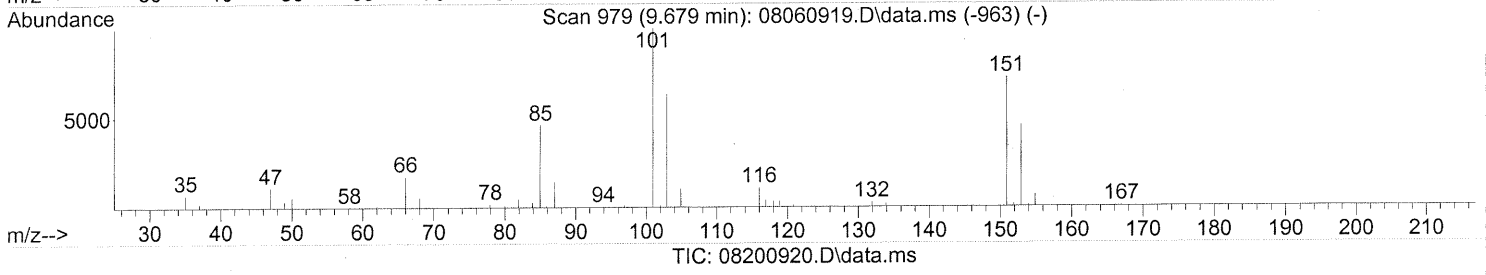
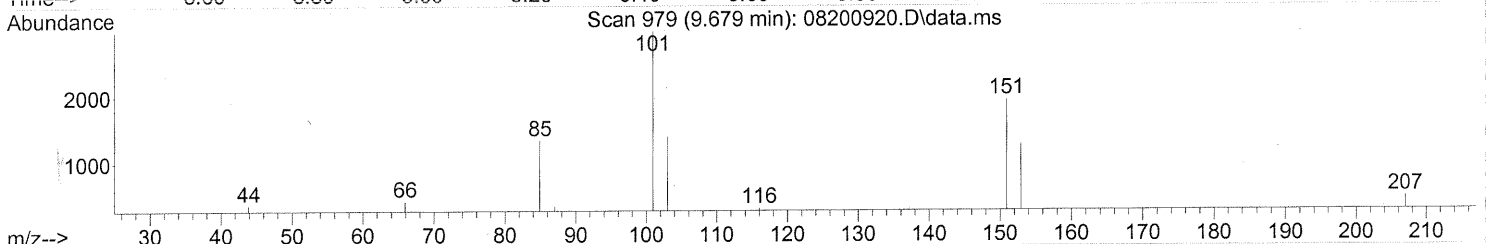
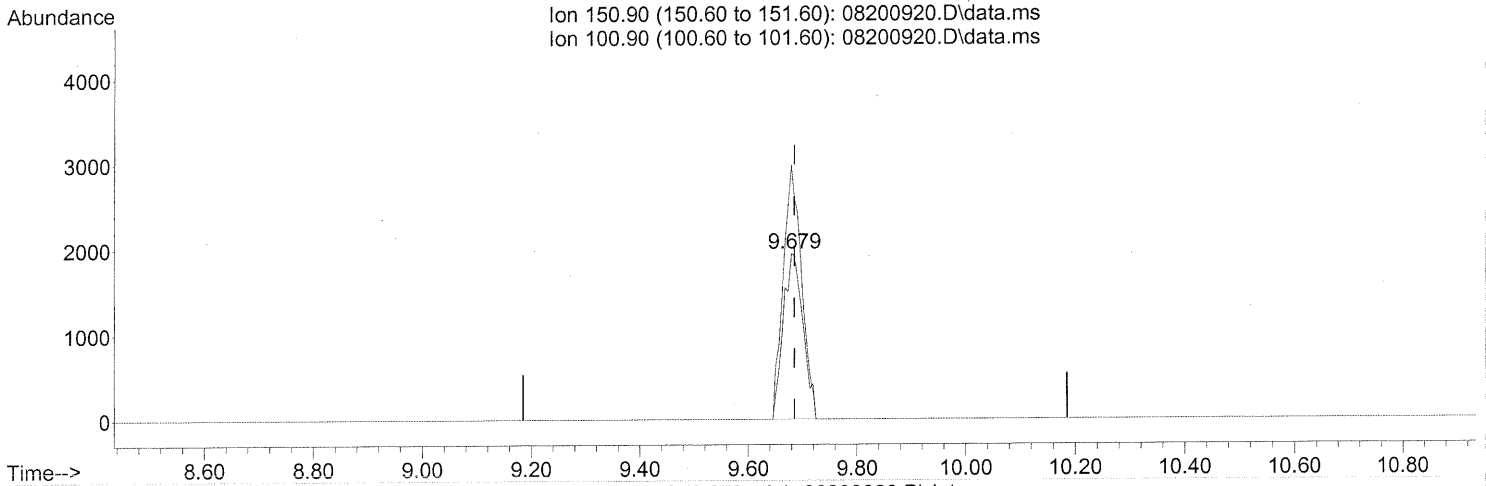
8/26/09

DA 8/22/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.50ng

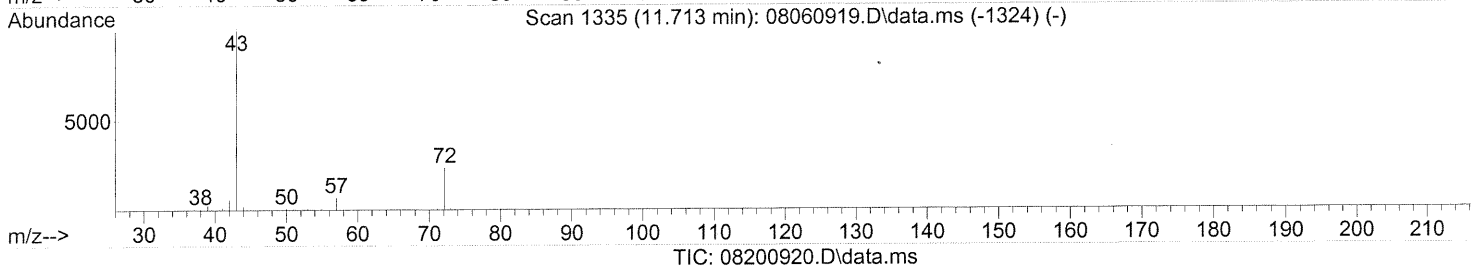
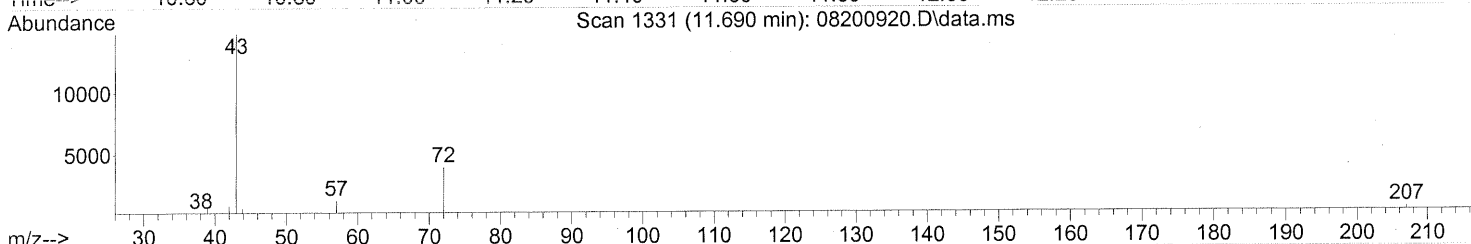
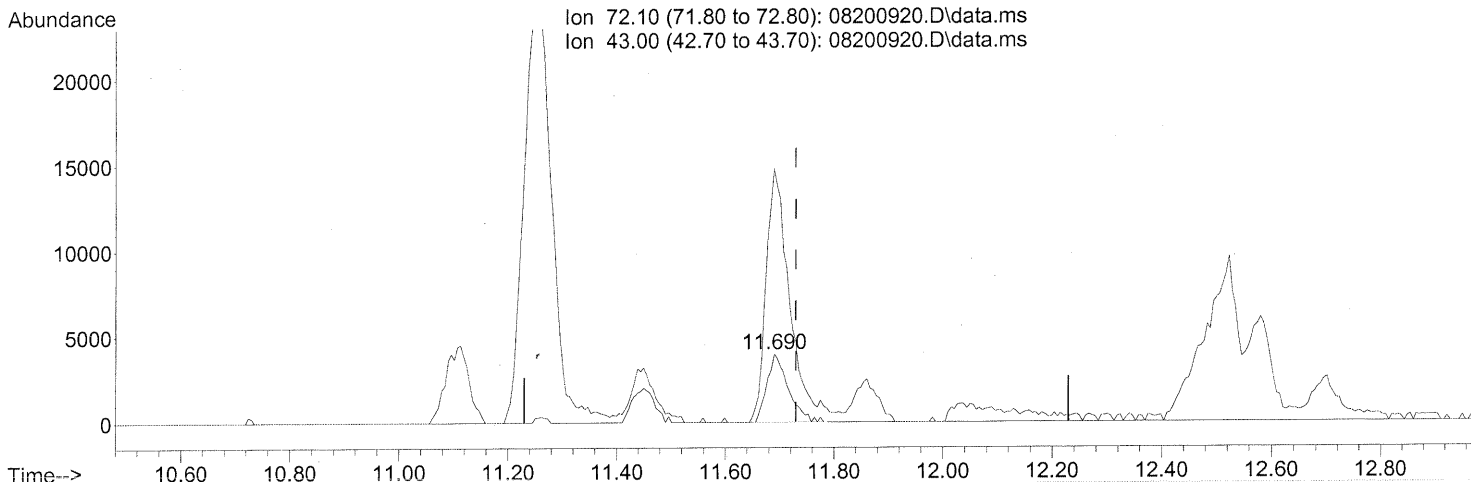
response 4926

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	142.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 1.09ng

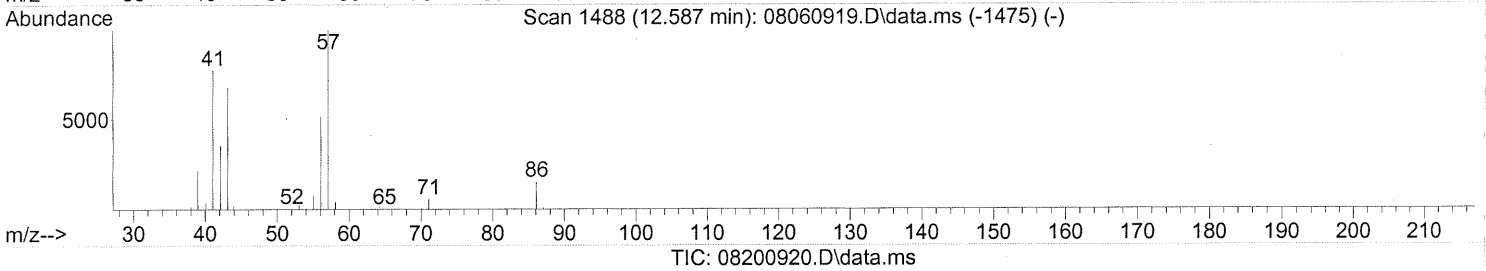
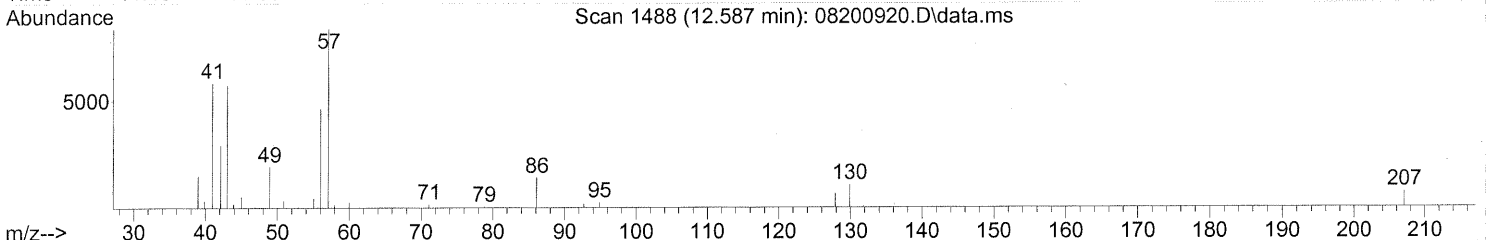
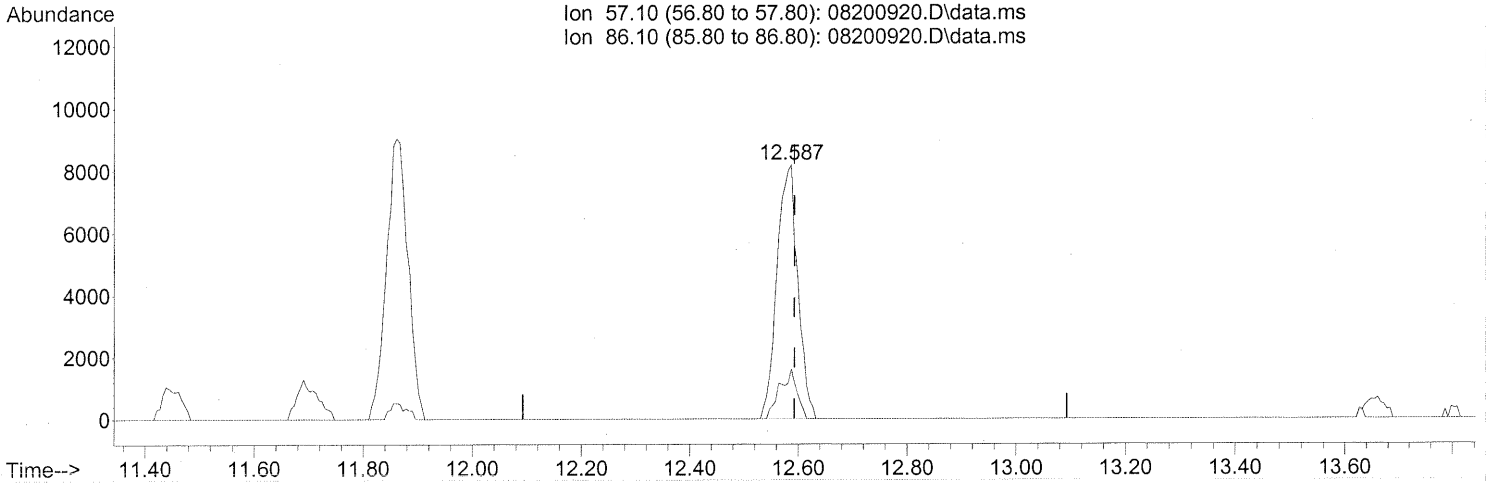
response 10879

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	419.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)
 12.587min (-0.006) 0.82ng

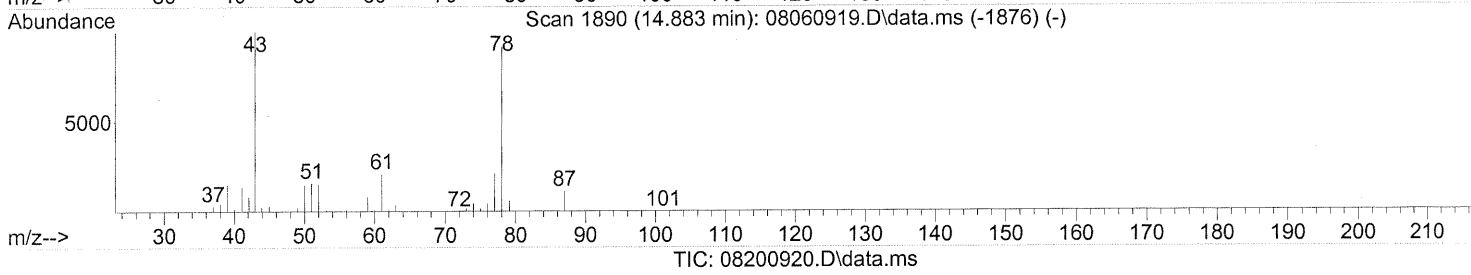
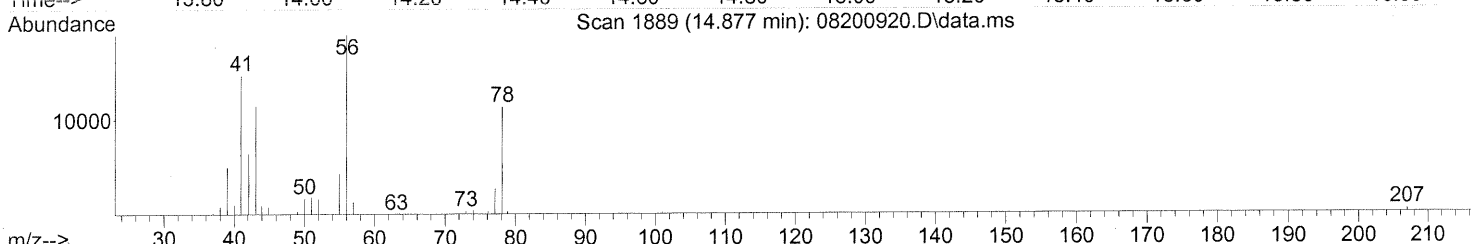
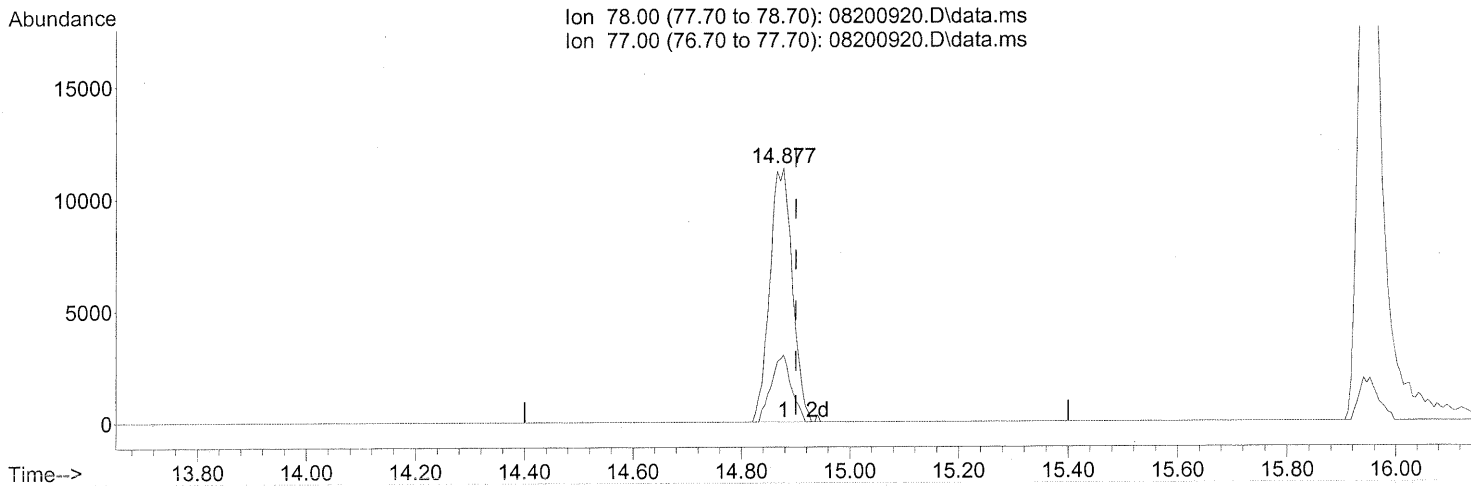
response 21718

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.877min (-0.023) 0.55ng

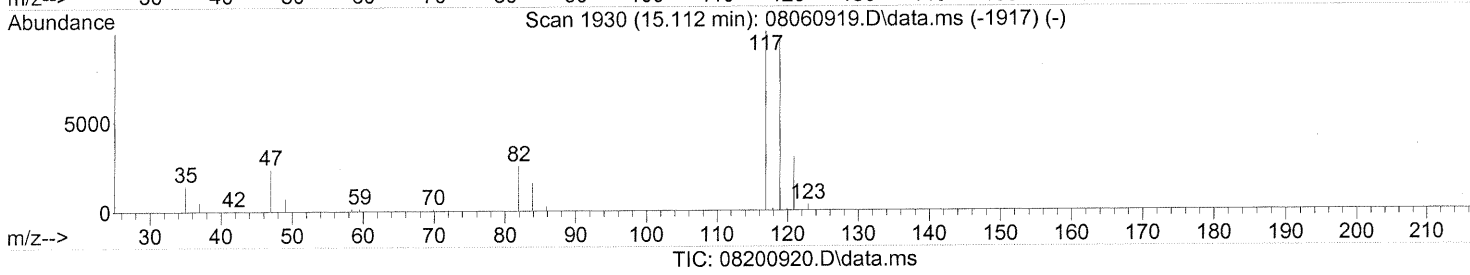
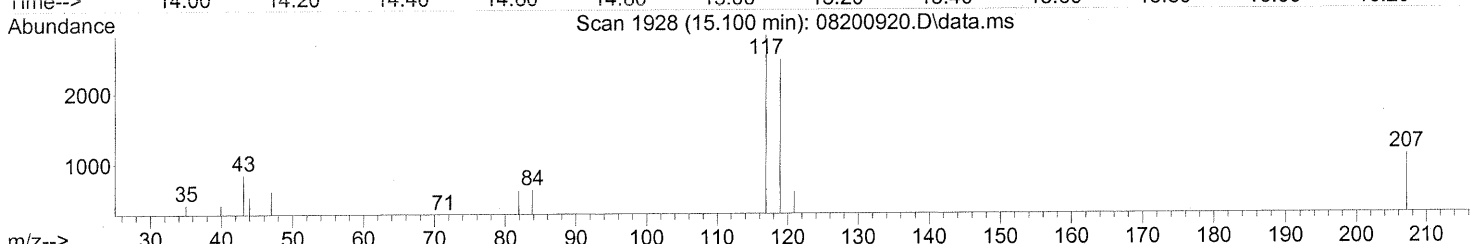
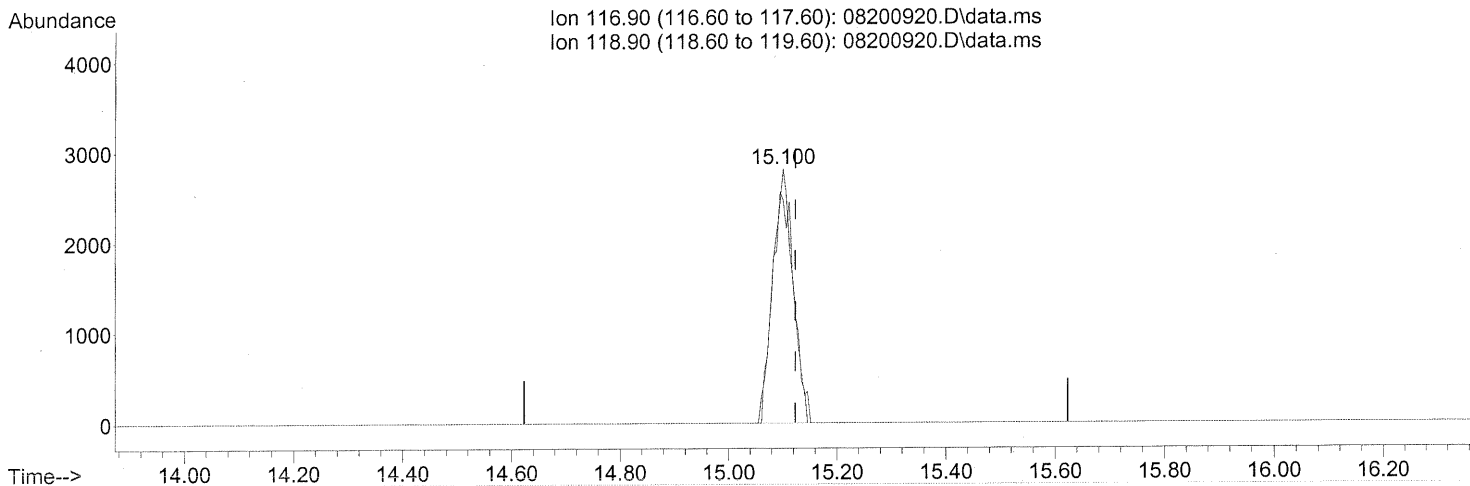
response 32793

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200920.D
Acq On : 20 Aug 2009 23:20
Operator : WA
Sample : P0902805-003 (1000mL)
Misc : Environmental Health 101311
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.38ng

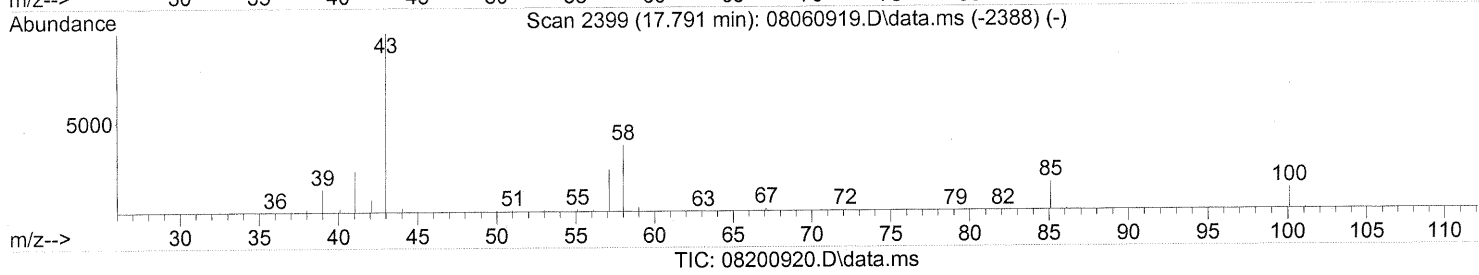
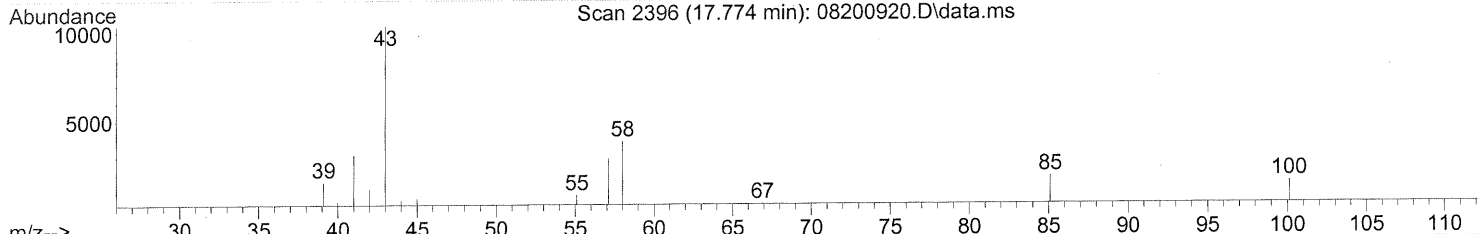
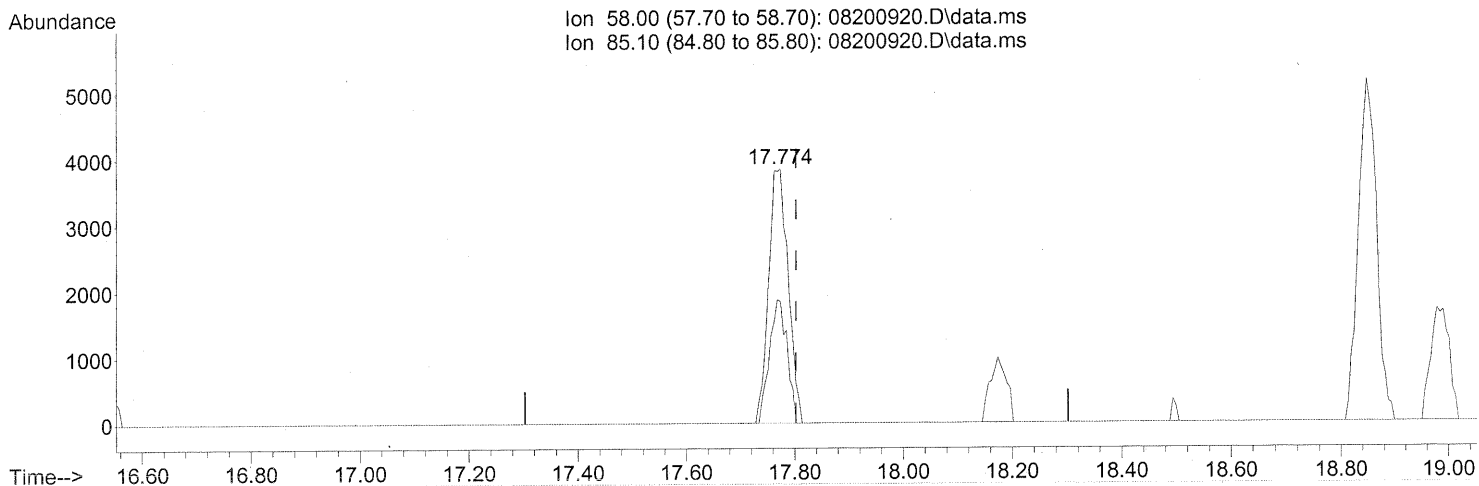
response 7196

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.029) 0.67ng

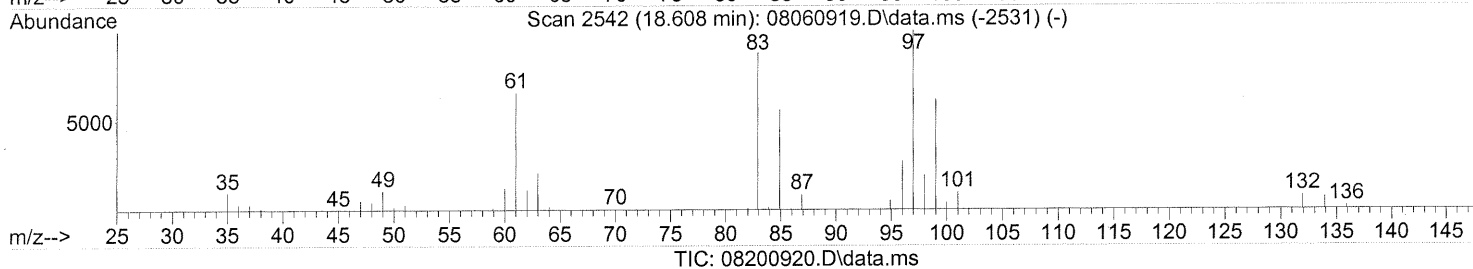
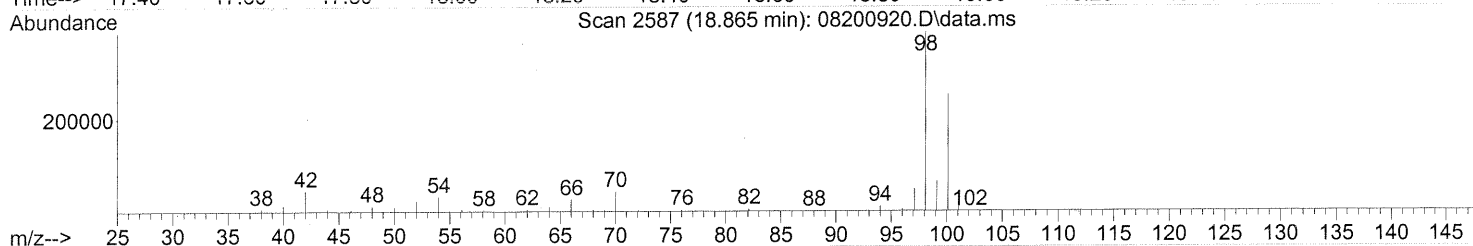
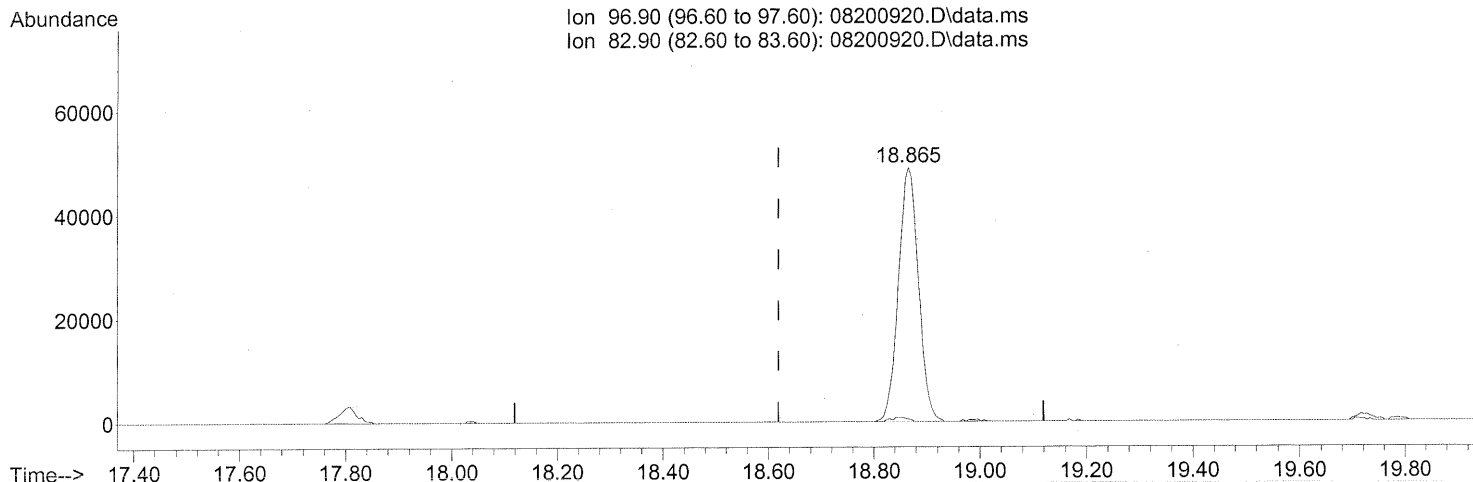
response 9619

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.78ng

response 128040

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

7P

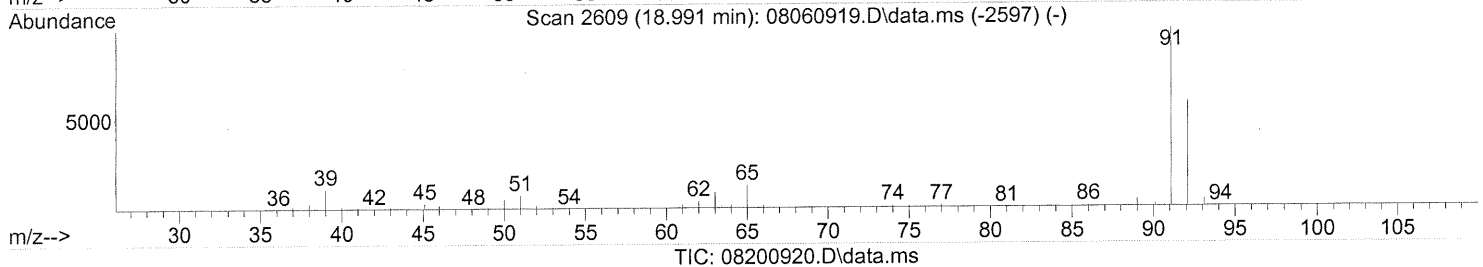
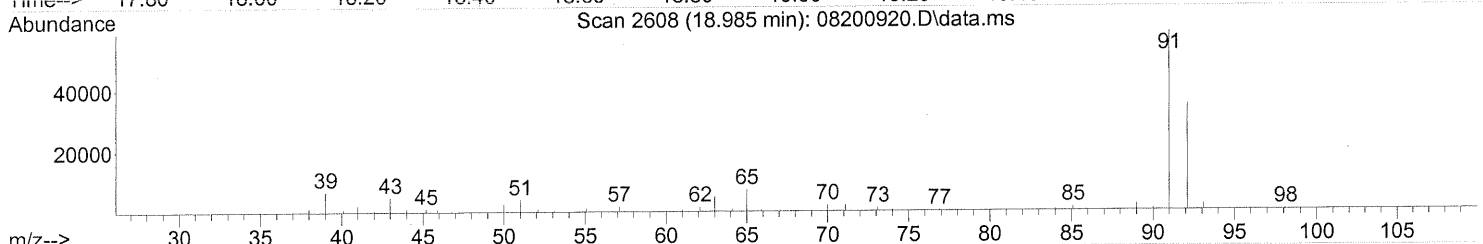
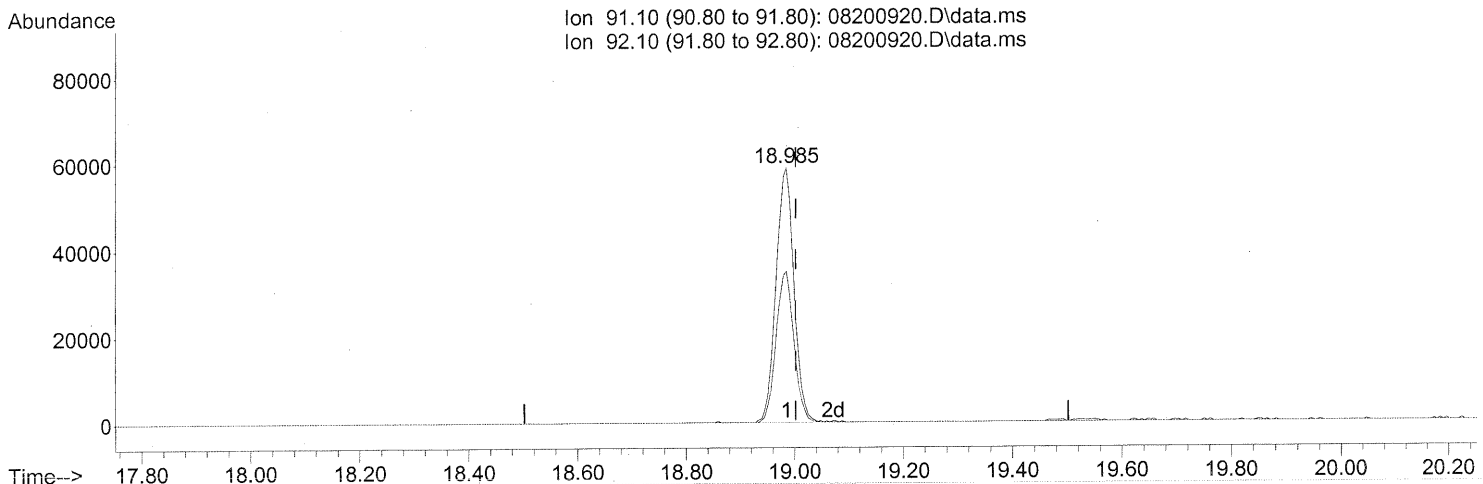
DA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 2.37ng

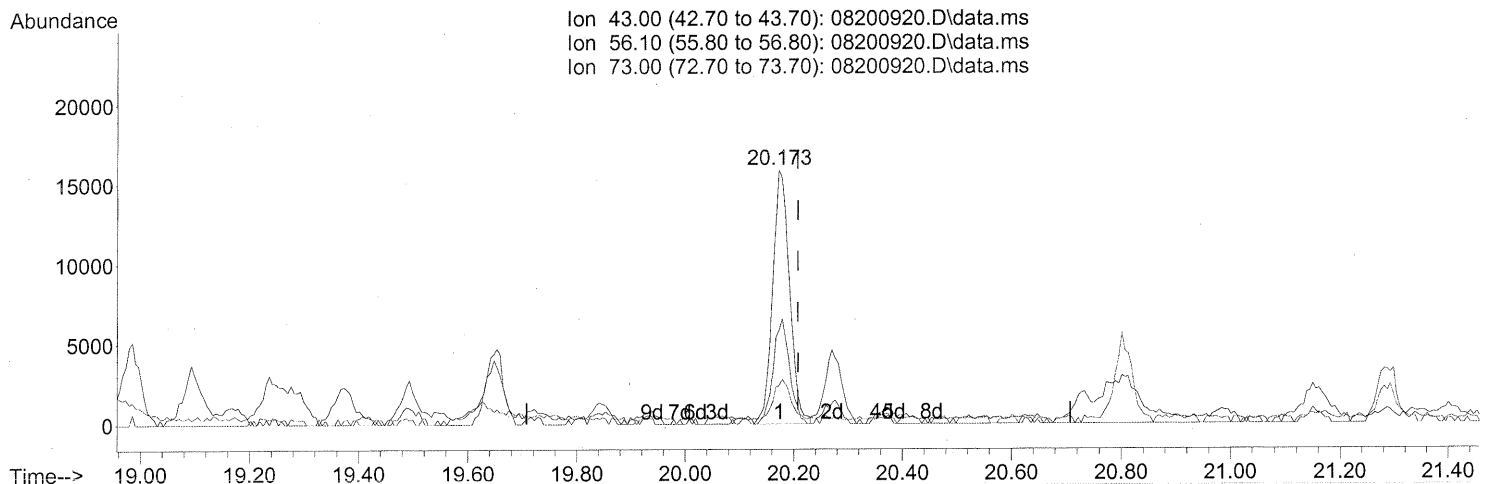
response 135054

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.01
0.00	0.00	0.00
0.00	0.00	0.00

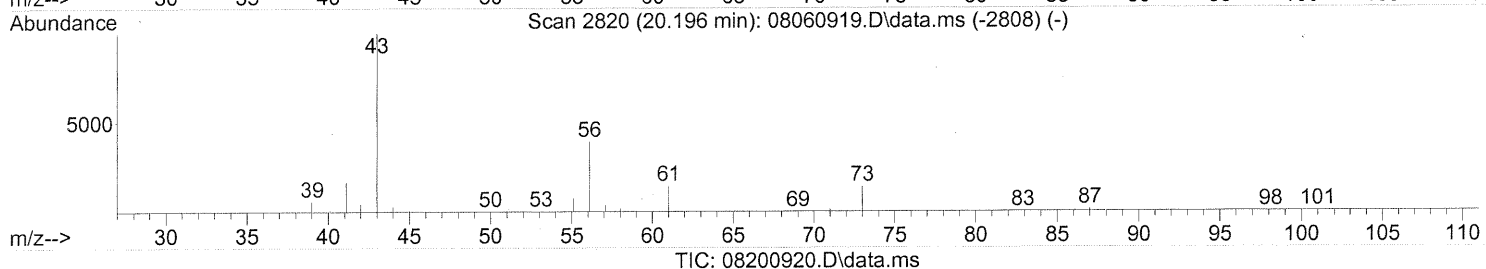
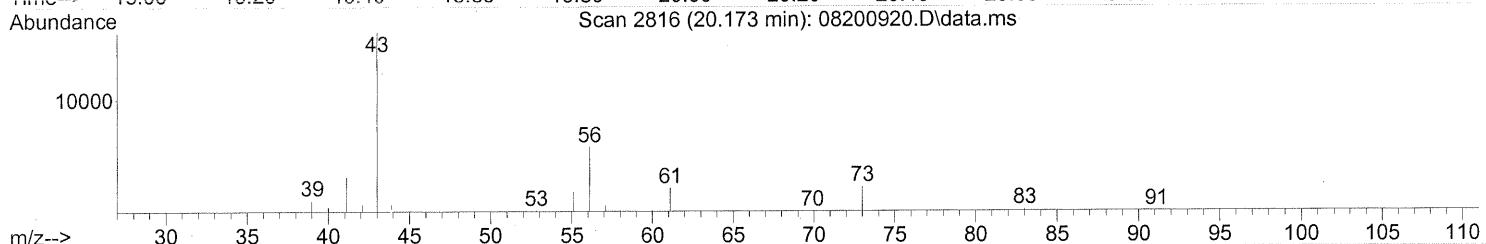
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 08200920.D\data.ms
 Ion 56.10 (55.80 to 56.80): 08200920.D\data.ms
 Ion 73.00 (72.70 to 73.70): 08200920.D\data.ms



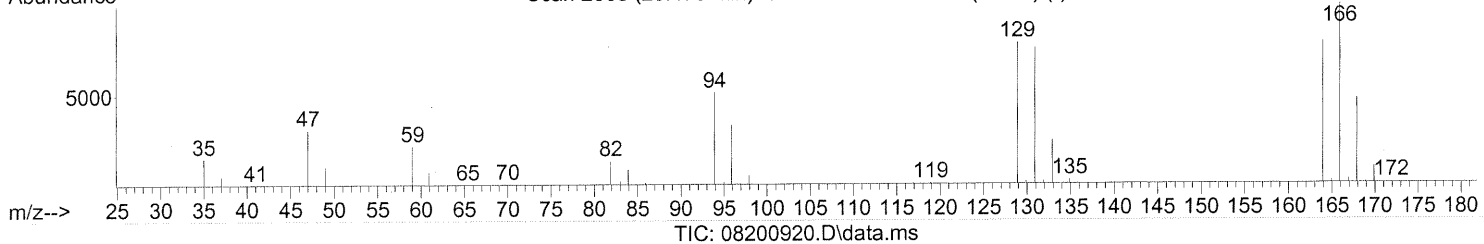
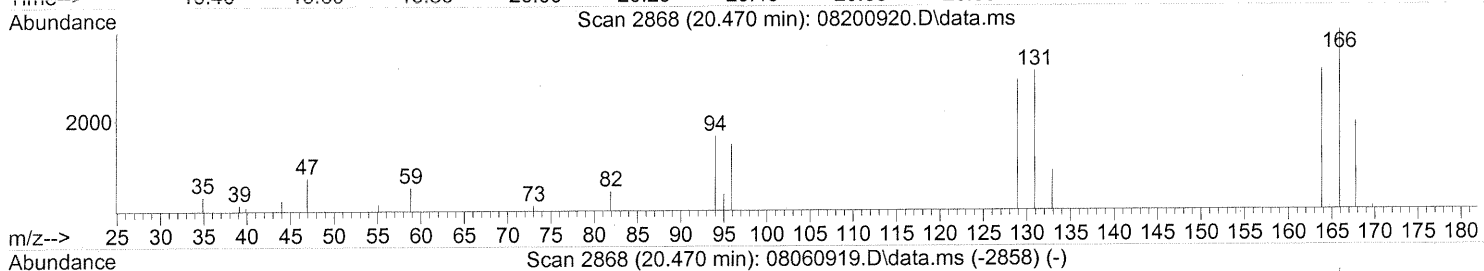
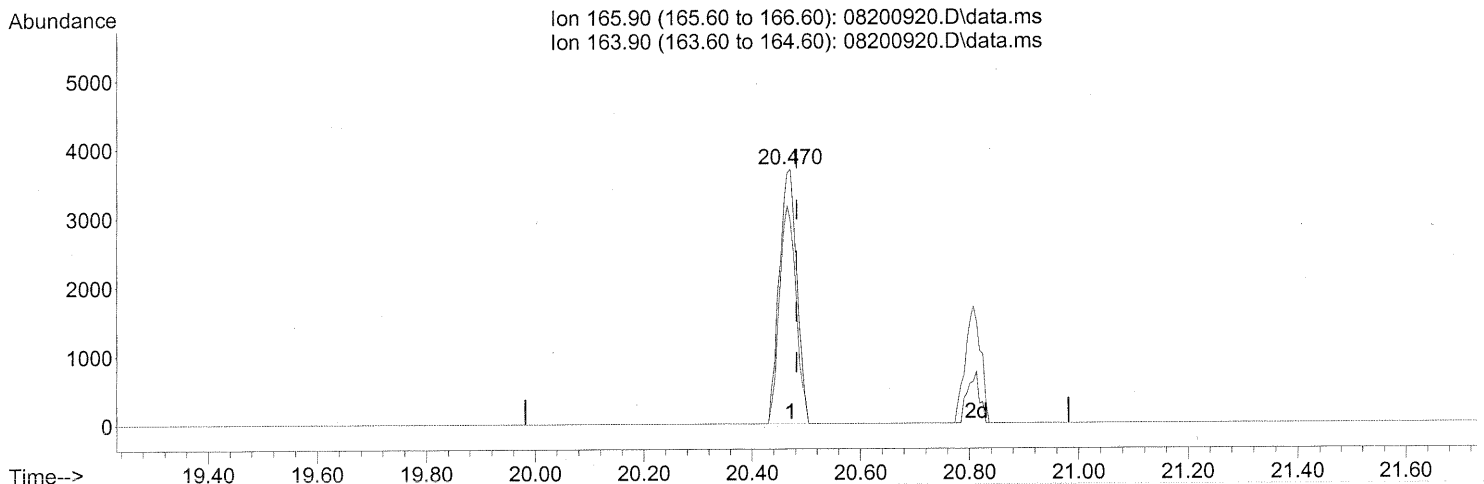
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 0.77ng
 response 34283

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.12
73.00	14.80	21.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.63ng

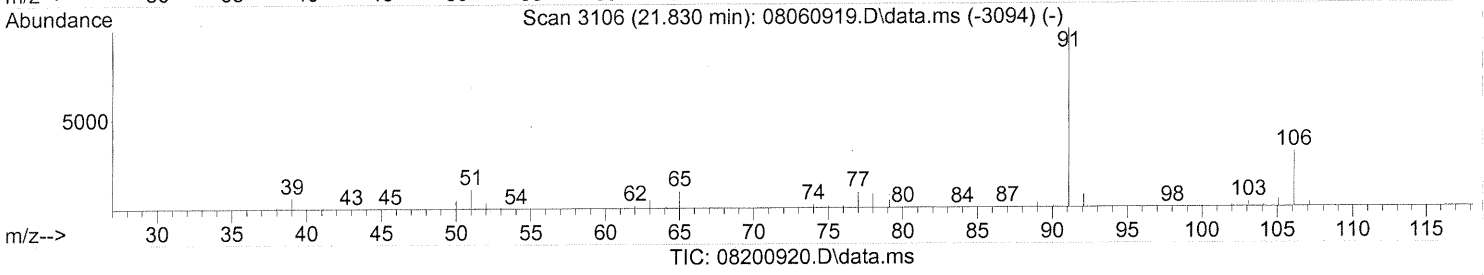
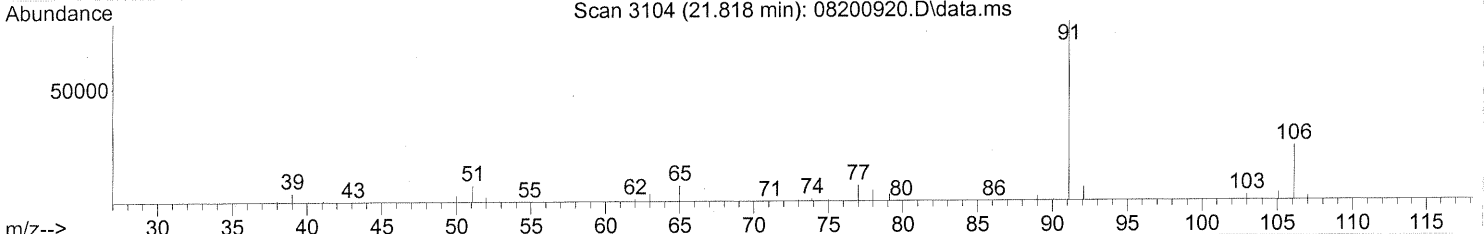
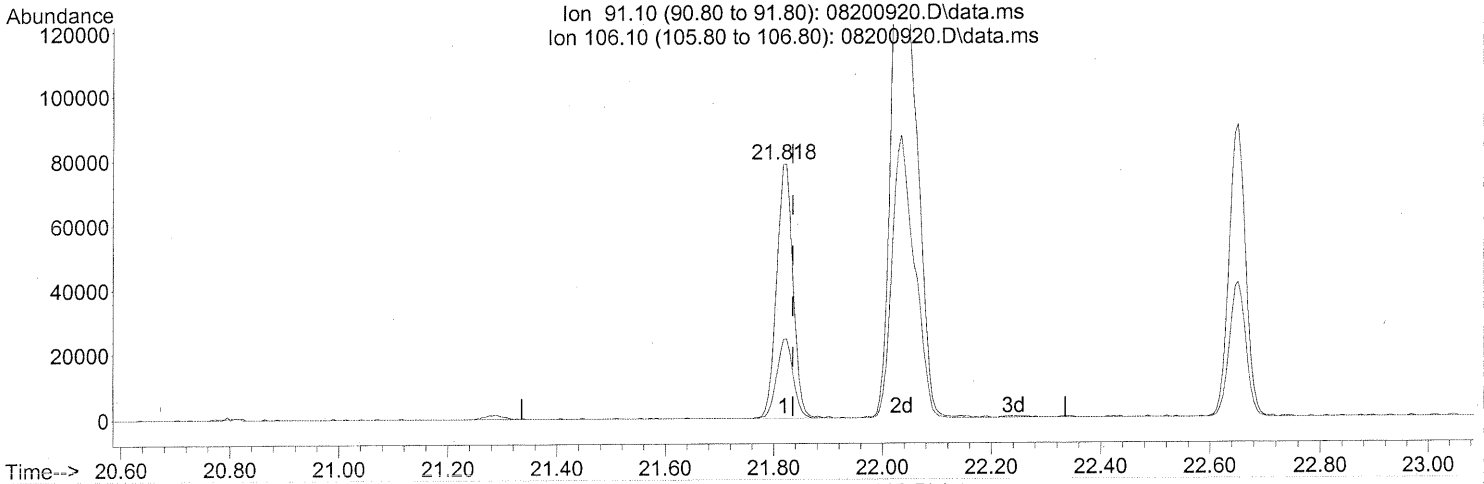
response 8280

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	81.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



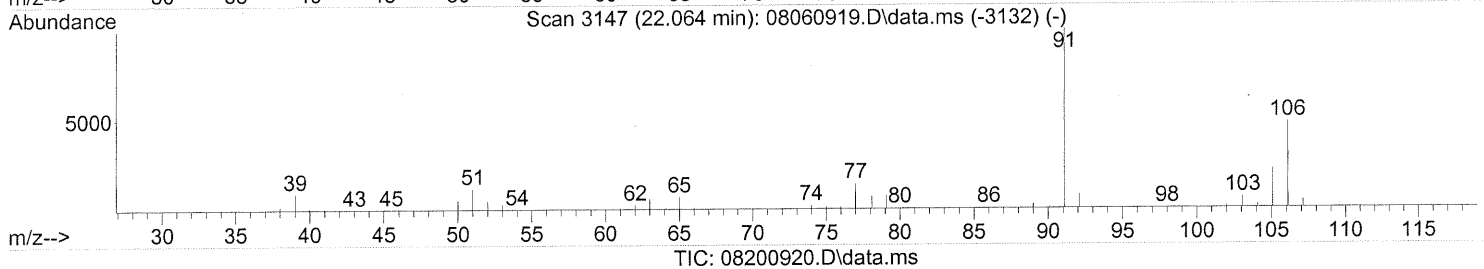
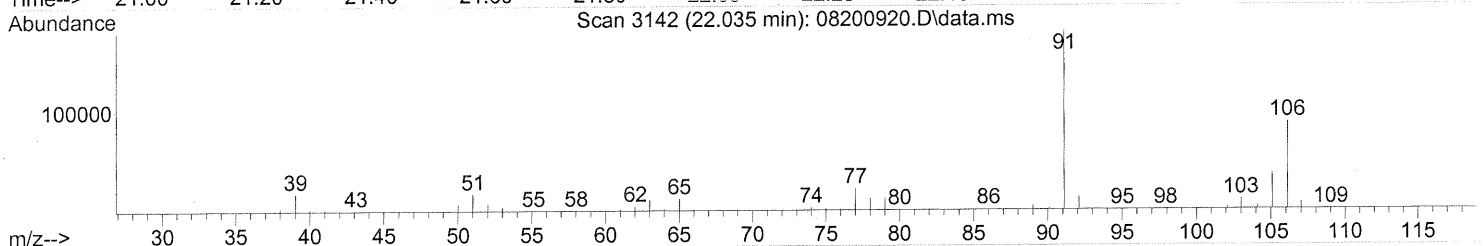
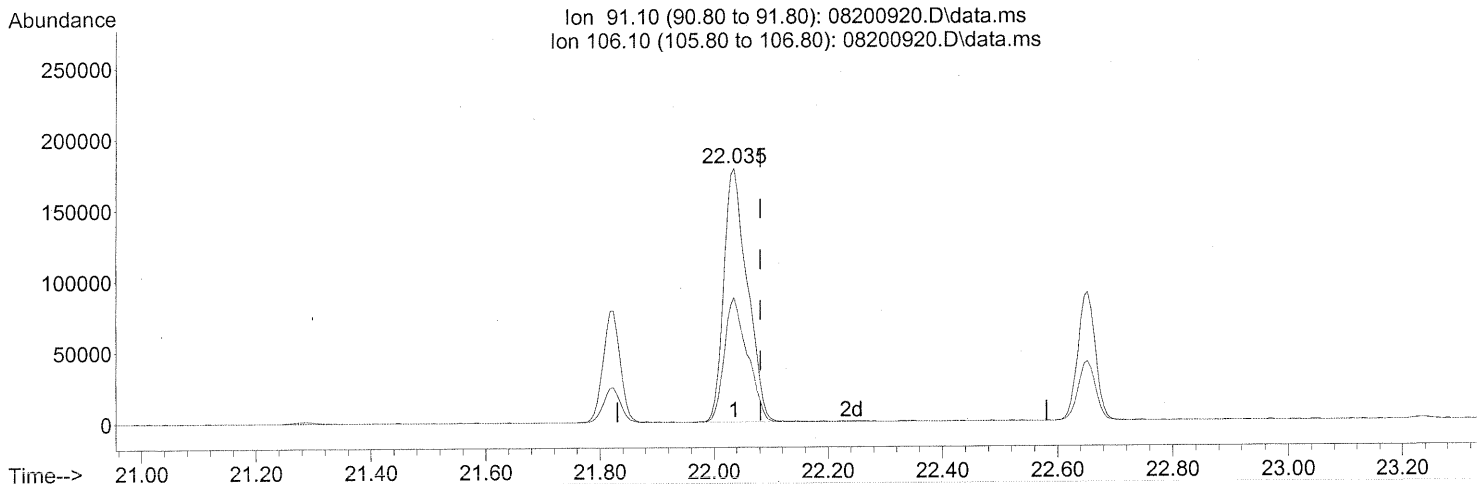
(66) Ethylbenzene (T)
 21.818min (-0.017) 2.53ng
 response 164503

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	31.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 9.81ng

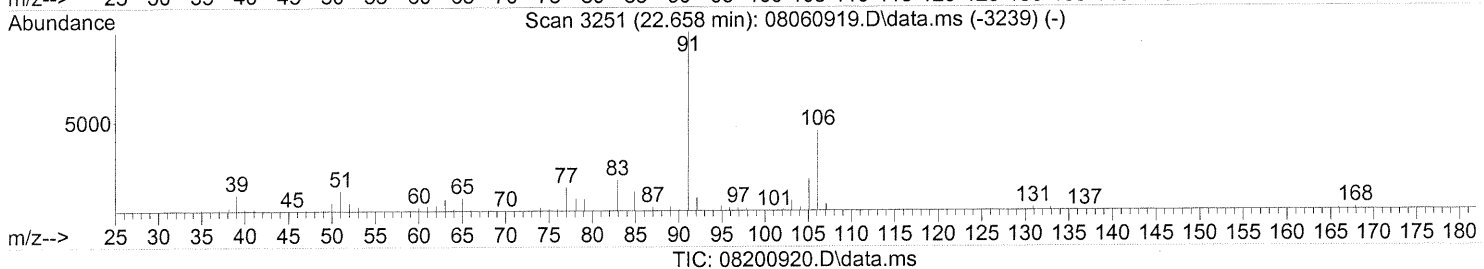
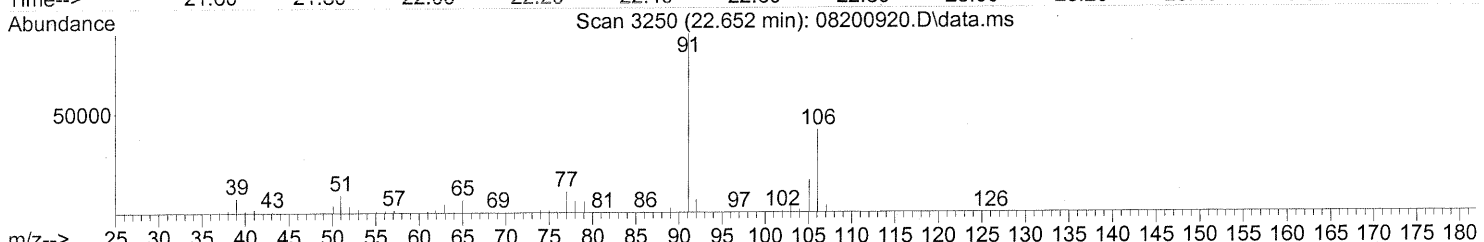
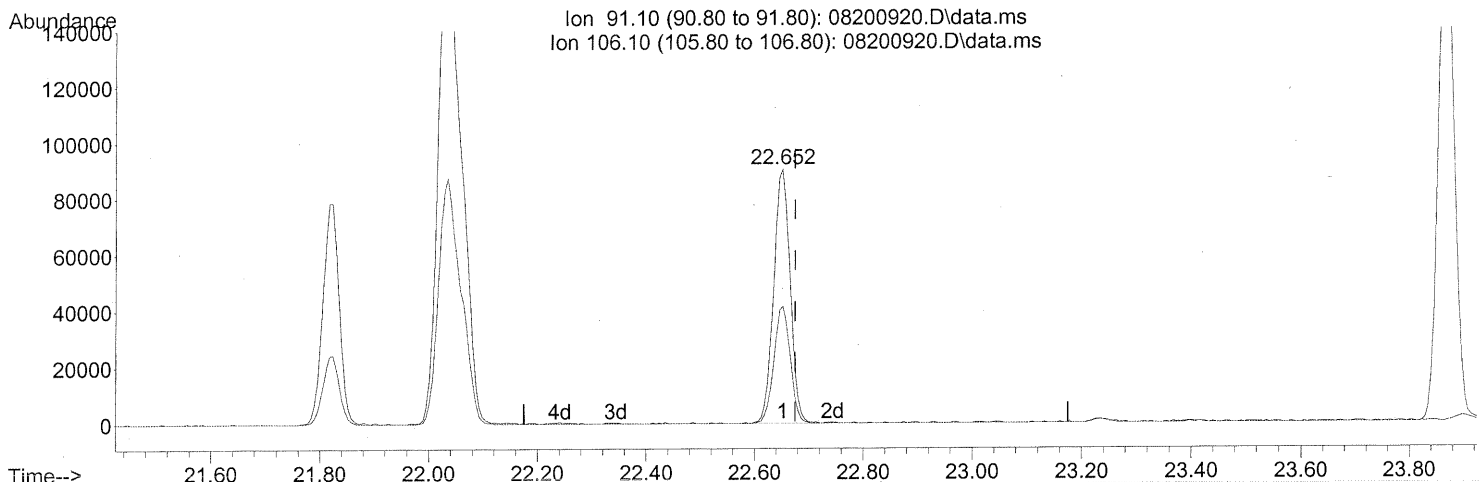
response 516626

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



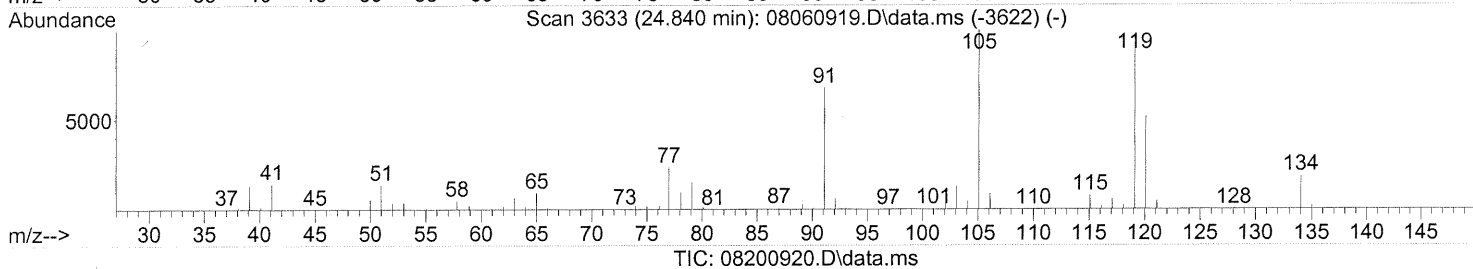
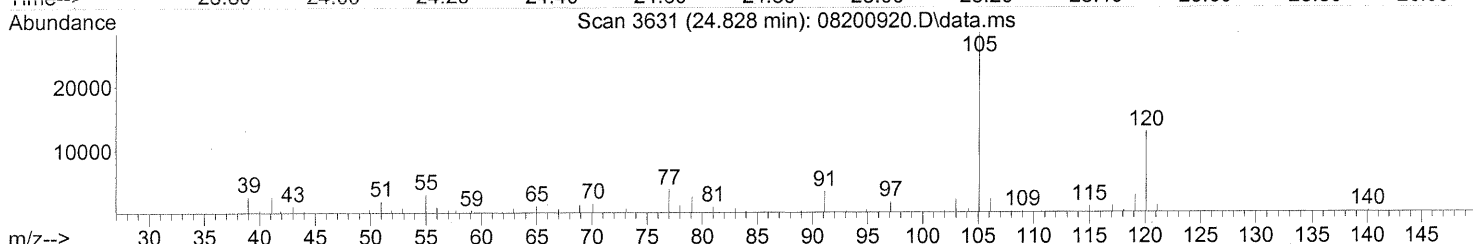
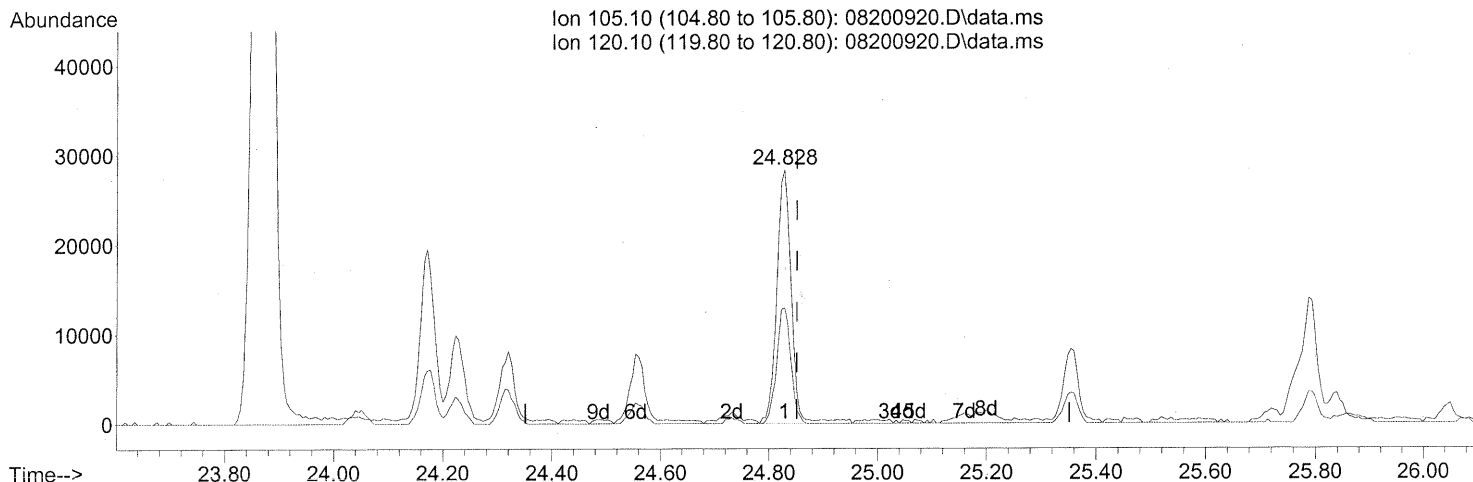
(70) o-Xylene (T)
 22.652min (-0.023) 3.62ng
 response 191321

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200920.D
 Acq On : 20 Aug 2009 23:20
 Operator : WA
 Sample : P0902805-003 (1000mL)
 Misc : Environmental Health 101311
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 06:25:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 0.99ng

response 52608

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.54
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101398

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00542

Date Collected: 8/13/09

Date Received: 8/14/09

Date Analyzed: 8/21/09

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.28

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	6.6	1.3	3.8	0.74	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	1.3	0.58	0.26	
74-87-3	Chloromethane	2.5	0.26	1.2	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.3	ND	0.18	
75-01-4	Vinyl Chloride	ND	0.26	ND	0.10	
106-99-0	1,3-Butadiene	0.33	0.26	0.15	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.066	
75-00-3	Chloroethane	ND	0.26	ND	0.097	
64-17-5	Ethanol	2,700	13	1,400	6.8	D
75-05-8	Acetonitrile	240	1.3	140	0.76	
107-02-8	Acrolein	4.4	1.3	1.9	0.56	
67-64-1	Acetone	160	13	65	5.4	
75-69-4	Trichlorofluoromethane	1.4	0.26	0.26	0.046	
67-63-0	2-Propanol (Isopropyl Alcohol)	29	1.3	12	0.52	
107-13-1	Acrylonitrile	ND	1.3	ND	0.59	
75-35-4	1,1-Dichloroethene	ND	0.26	ND	0.065	
75-09-2	Methylene Chloride	ND	1.3	ND	0.37	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.26	ND	0.082	
76-13-1	Trichlorotrifluoroethane	0.74	0.26	0.097	0.033	
75-15-0	Carbon Disulfide	1.4	1.3	0.45	0.41	
156-60-5	trans-1,2-Dichloroethene	ND	0.26	ND	0.065	
75-34-3	1,1-Dichloroethane	ND	0.26	ND	0.063	
1634-04-4	Methyl tert-Butyl Ether	ND	0.26	ND	0.071	
108-05-4	Vinyl Acetate	ND	13	ND	3.6	
78-93-3	2-Butanone (MEK)	8.1	1.3	2.8	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

9/3/09

169

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101398
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00542

CAS Project ID: P0902805
 CAS Sample ID: P0902805-004

Date Collected: 8/13/09
 Date Received: 8/14/09
 Date Analyzed: 8/21/09
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.28

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.26	ND	0.065	
141-78-6	Ethyl Acetate	5.8	1.3	1.6	0.36	
110-54-3	n-Hexane	6.1	1.3	1.7	0.36	
67-66-3	Chloroform	9.0	0.26	1.8	0.052	
109-99-9	Tetrahydrofuran (THF)	1.7	1.3	0.56	0.43	
107-06-2	1,2-Dichloroethane	2.7	0.26	0.66	0.063	
71-55-6	1,1,1-Trichloroethane	ND	0.26	ND	0.047	
71-43-2	Benzene	3.9	0.26	1.2	0.080	
56-23-5	Carbon Tetrachloride	1.0	0.26	0.17	0.041	
110-82-7	Cyclohexane	2.8	1.3	0.81	0.37	
78-87-5	1,2-Dichloropropane	ND	0.26	ND	0.055	
75-27-4	Bromodichloromethane	4.8	0.26	0.72	0.038	
79-01-6	Trichloroethene	ND	0.26	ND	0.048	
123-91-1	1,4-Dioxane	ND	1.3	ND	0.36	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.31	
142-82-5	n-Heptane	4.4	1.3	1.1	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	1.9	1.3	0.46	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	0.26	ND	0.047	
108-88-3	Toluene	27	1.3	7.1	0.34	
591-78-6	2-Hexanone	ND	1.3	ND	0.31	
124-48-1	Dibromochloromethane	3.1	0.26	0.36	0.030	
106-93-4	1,2-Dibromoethane	ND	0.26	ND	0.033	
123-86-4	n-Butyl Acetate	4.3	1.3	0.92	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

[Signature]

Date: _____

9/3/09

170

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101398
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00542

CAS Project ID: P0902805
 CAS Sample ID: P0902805-004

Date Collected: 8/13/09
 Date Received: 8/14/09
 Date Analyzed: 8/21/09
 Volume(s) Analyzed: 0.50 Liter(s)
 0.10 Liter(s)

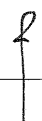
Initial Pressure (psig): -0.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.2	1.3	0.47	0.27	
127-18-4	Tetrachloroethene	1.5	0.26	0.22	0.038	
108-90-7	Chlorobenzene	ND	0.26	ND	0.056	
100-41-4	Ethylbenzene	6.6	1.3	1.5	0.29	
179601-23-1	m,p-Xylenes	23	1.3	5.2	0.29	
75-25-2	Bromoform	1.3	1.3	0.13	0.12	
100-42-5	Styrene	3.0	1.3	0.70	0.30	
95-47-6	o-Xylene	8.3	1.3	1.9	0.29	
111-84-2	n-Nonane	2.7	1.3	0.52	0.24	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.26	ND	0.037	
98-82-8	Cumene	ND	1.3	ND	0.26	
80-56-8	alpha-Pinene	80	1.3	14	0.23	
103-65-1	n-Propylbenzene	ND	1.3	ND	0.26	
622-96-8	4-Ethyltoluene	1.5	1.3	0.30	0.26	
108-67-8	1,3,5-Trimethylbenzene	1.4	1.3	0.28	0.26	
95-63-6	1,2,4-Trimethylbenzene	4.4	1.3	0.89	0.26	
100-44-7	Benzyl Chloride	ND	0.26	ND	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.26	ND	0.043	
106-46-7	1,4-Dichlorobenzene	0.90	0.26	0.15	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.26	ND	0.043	
5989-27-5	d-Limonene	69	1.3	12	0.23	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	1.3	ND	0.24	
87-68-3	Hexachlorobutadiene	ND	1.3	ND	0.12	

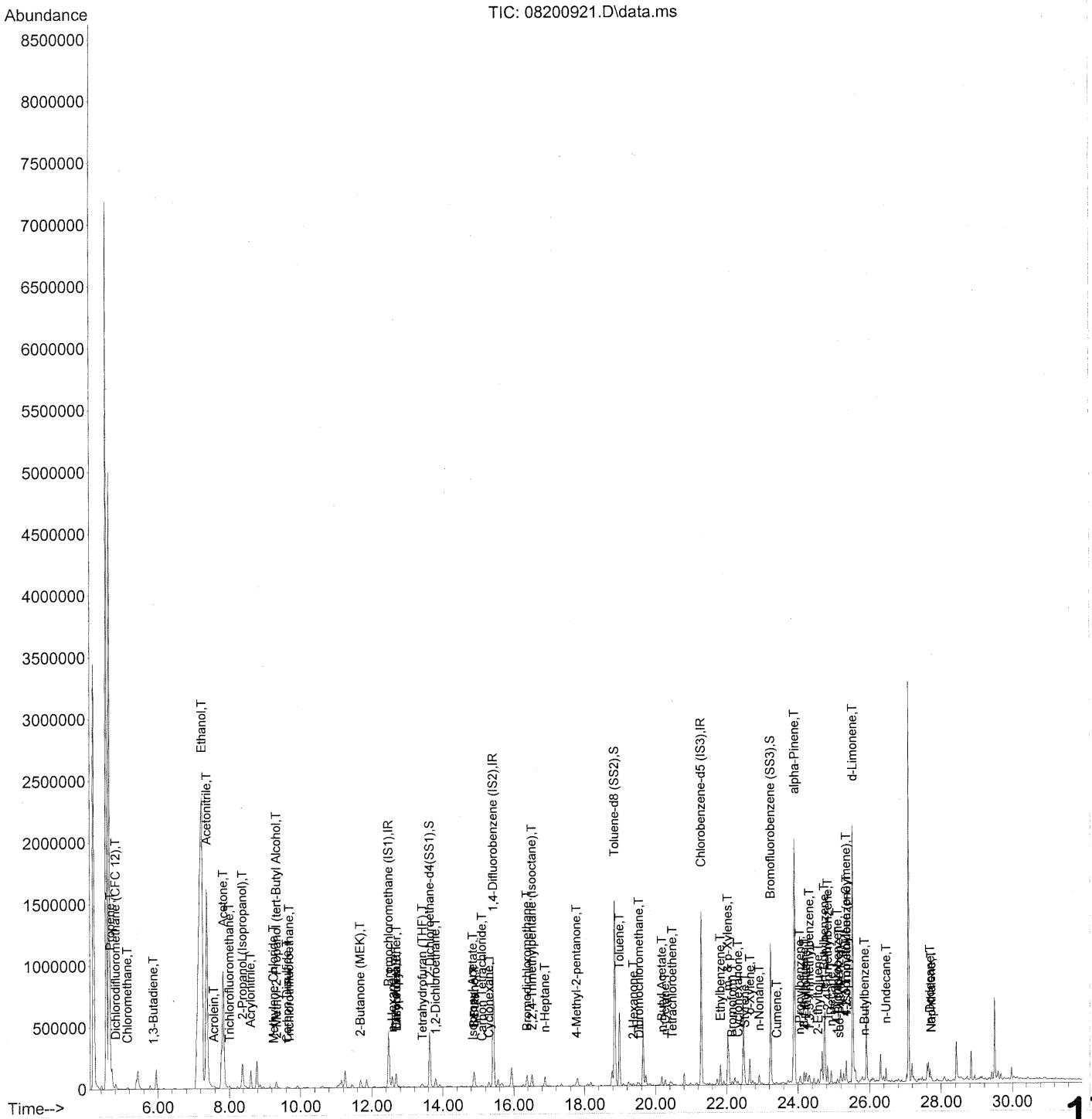
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:  Date: 8/3/09 **171**

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 14:51:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 14:51:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	238569	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1198915	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	581503	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	463294	22.343	ng	-0.03
Spiked Amount	25.000			Recovery =	89.36%	✓
57) Toluene-d8 (SS2)	18.85	98	1308815	25.759	ng	-0.02
Spiked Amount	25.000			Recovery =	103.04%	✓
73) Bromofluorobenzene (SS3)	23.23	174	377421	28.167	ng	-0.01
Spiked Amount	25.000			Recovery =	112.68%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	41900m	2.559 ng		
3) Dichlorodifluoromethan...	4.82	85	29856	1.116 ng		99
4) Chloromethane	5.15	50	17906	0.996 ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	298	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	1610	0.130 ng	#	61
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	9941073	957.975 ng <i>see dil</i>		100
11) Acetonitrile	7.38	41	2802090	92.203 ng		100
12) Acrolein	7.57	56	13672	1.731 ng		99
13) Acetone	7.83	58	593501	60.615 ng		93
14) Trichlorofluoromethane	8.01	101	13612	0.563 ng		95
15) 2-Propanol (Isopropanol)	8.37	45	441160	11.465 ng		100
16) Acrylonitrile	8.60	53	3137	0.177 ng	#	58
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	16959	0.497 ng	#	25
19) Methylene Chloride	9.25	84	3830	0.291 ng		83
20) 3-Chloro-1-propene (Al...	9.41	41	446	N.D.		
21) Trichlorotrifluoroethane	9.68	151	2559	0.291 ng		85
22) Carbon Disulfide	9.62	76	25457	0.549 ng		96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.20	73	105	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.68	72	28035	3.171 ng	#	88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.70	87	7718	0.652 ng	#	58
30) Ethyl Acetate	12.68	61	10489	2.278 ng		92
31) n-Hexane	12.58	57	56276	2.389 ng		100

173

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 14:51:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	72578	3.499 ng		99
34) Tetrahydrofuran (THF)	13.42	72	6106	0.648 ng	#	32
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	19782	1.044 ng		99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.84	61	1165	0.131 ng	#	1
40) 1-Butanol	14.89	56	61742	3.968 ng		81
41) Benzene	14.88	78	81054	1.538 ng		98
42) Carbon Tetrachloride	15.10	117	6842	0.407 ng		100
43) Cyclohexane	15.29	84	20901	1.083 ng		93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	32876	1.893 ng		99
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.54	88	232	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	108021	1.740 ng		95
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	24247	1.714 ng		96
52) cis-1,3-Dichloropropene	17.58	75	495	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	9300	0.734 ng		94
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	525002	10.514 ng		100
59) 2-Hexanone	19.37	43	15571	0.469 ng		92
60) Dibromochloromethane	19.53	129	14119	1.195 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	66495	1.699 ng		91
63) n-Octane	20.27	57	10308	0.854 ng		95
64) Tetrachloroethene	20.47	166	6754	0.584 ng		91
65) Chlorobenzene	21.37	112	1456	N.D.		
66) Ethylbenzene	21.82	91	147708	2.588 ng		99
67) m- & p-Xylenes	22.03	91	408762	8.852 ng		97
68) Bromoform	22.15	173	5110	0.521 ng		99
69) Styrene	22.51	104	38727	1.160 ng	#	65
70) o-Xylene	22.65	91	150059	3.241 ng		98
71) n-Nonane	22.91	43	32662	1.062 ng	#	79
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.41	105	10658	0.182 ng		92
75) alpha-Pinene	23.90	93	935849	31.218 ng		72
76) n-Propylbenzene	24.05	91	23416	0.319 ng		85
77) 3-Ethyltoluene	24.17	105	59993	1.073 ng		100
78) 4-Ethyltoluene	24.22	105	31266	0.577 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	24255	0.531 ng		99

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 14:51:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

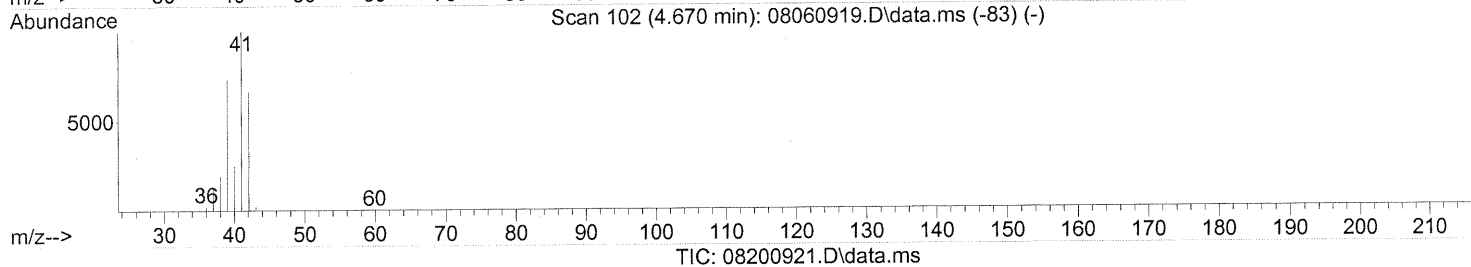
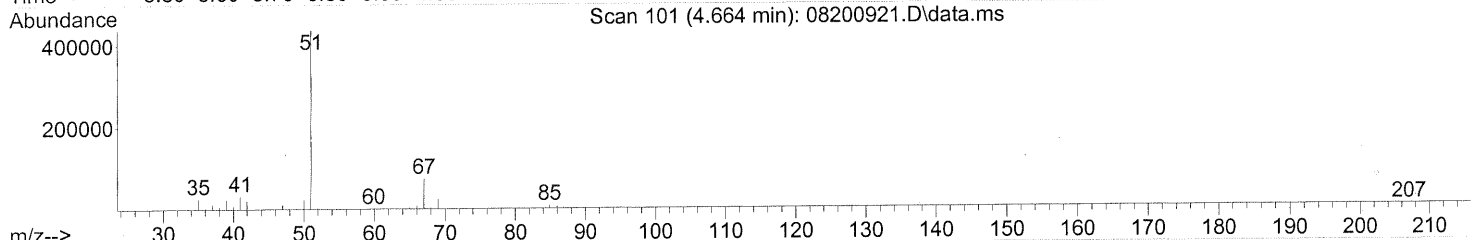
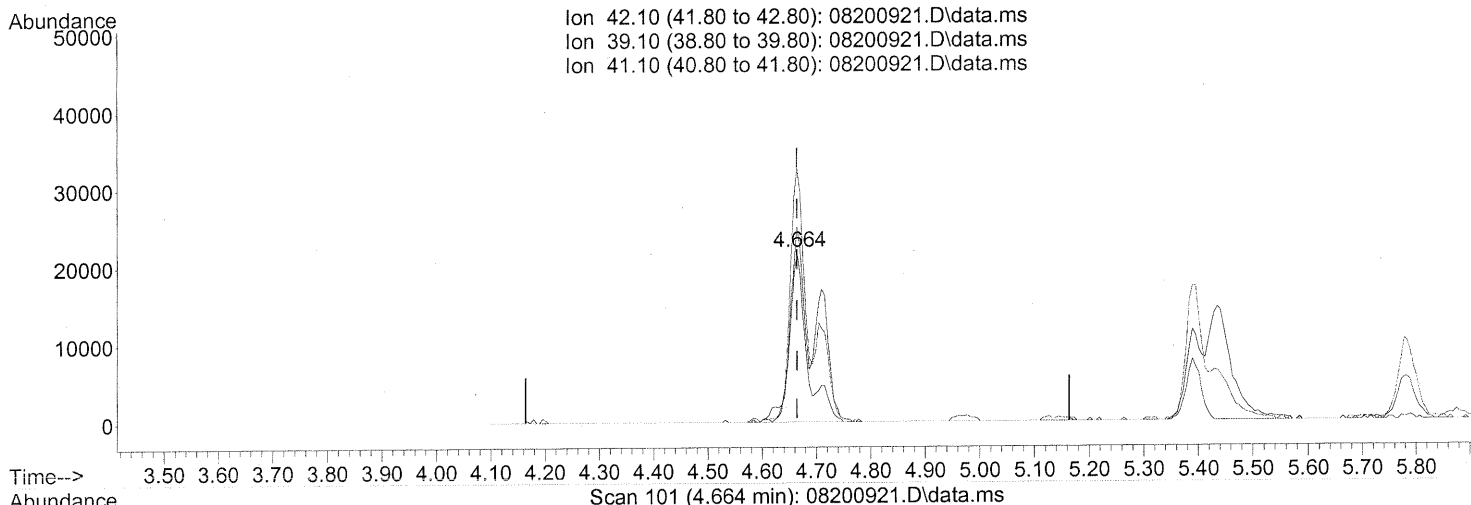
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	618	N.D.		
81) 2-Ethyltoluene	24.56	105	23322	0.414 ng		97
82) 1,2,4-Trimethylbenzene	24.83	105	79921	1.716 ng		88
83) n-Decane	24.93	57	39672	1.310 ng		97
84) Benzyl Chloride	25.04	91	192	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	25.10	146	8832	0.351 ng		96
87) sec-Butylbenzene	25.15	105	3903	0.062 ng	#	74
88) 4-Isopropyltoluene (p-...	25.35	119	79169	1.411 ng		99
89) 1,2,3-Trimethylbenzene	25.35	105	23284	0.491 ng	#	68
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. d		
91) d-Limonene	25.53	68	535041	27.012 ng		82
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	39756	1.234 ng		93
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	21212	0.335 ng	URL	98
96) n-Dodecane	27.69	57	32792	0.876 ng		91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	12288	0.594 ng		91
99) tert-Butylbenzene	24.73	119	7360	0.163 ng		94
100) n-Butylbenzene	25.85	91	7897	0.152 ng	#	42

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 3.06ng

response 50066

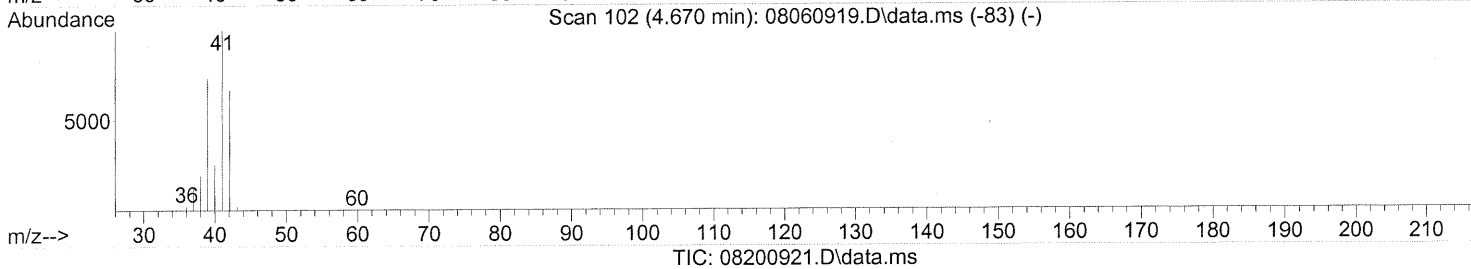
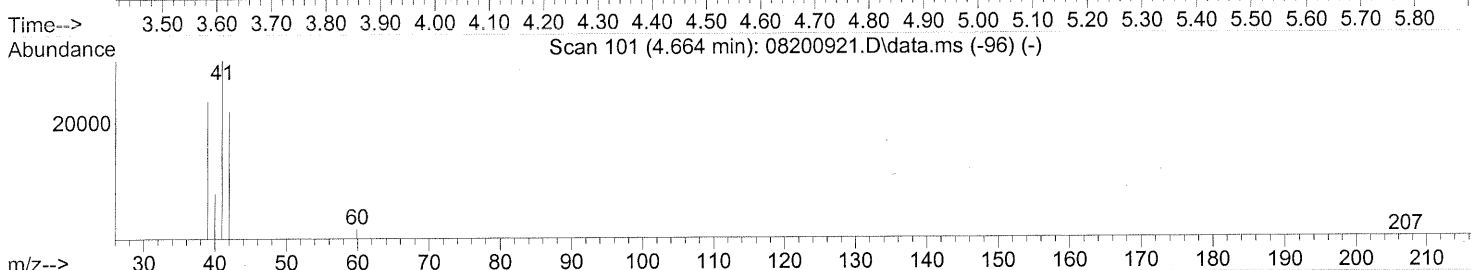
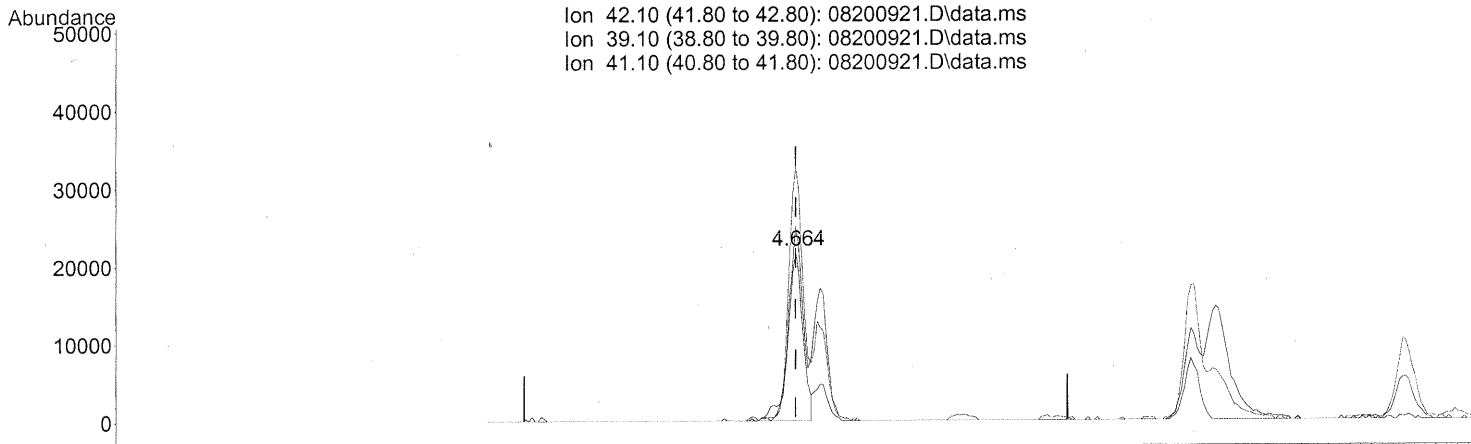
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	89.86#
41.10	150.20	123.57#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200921.D
Acq On : 21 Aug 2009 00:01
Operator : WA
Sample : P0902805-004 (500mL)
Misc : Environmental Health 101398
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 2.56ng m

response 41900

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	107.37
41.10	150.20	147.65
0.00	0.00	0.00

SH - TIC and subst.

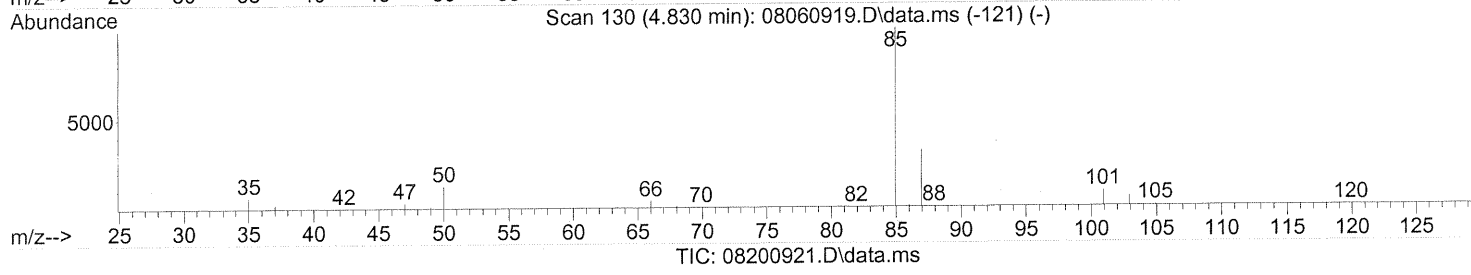
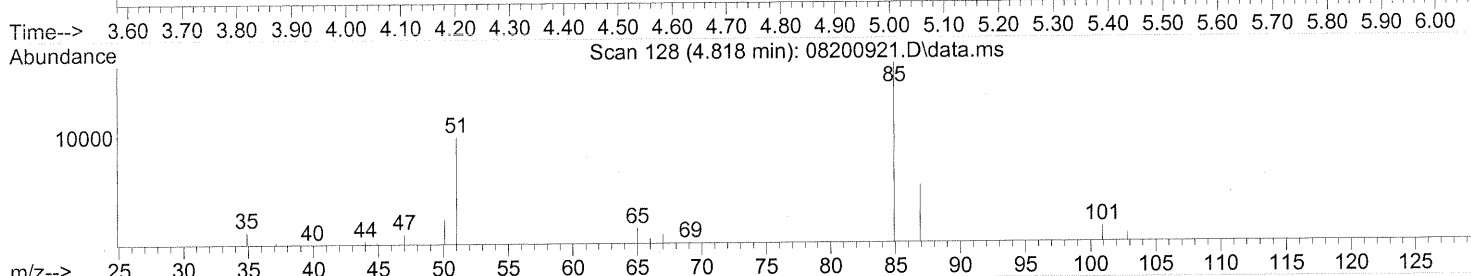
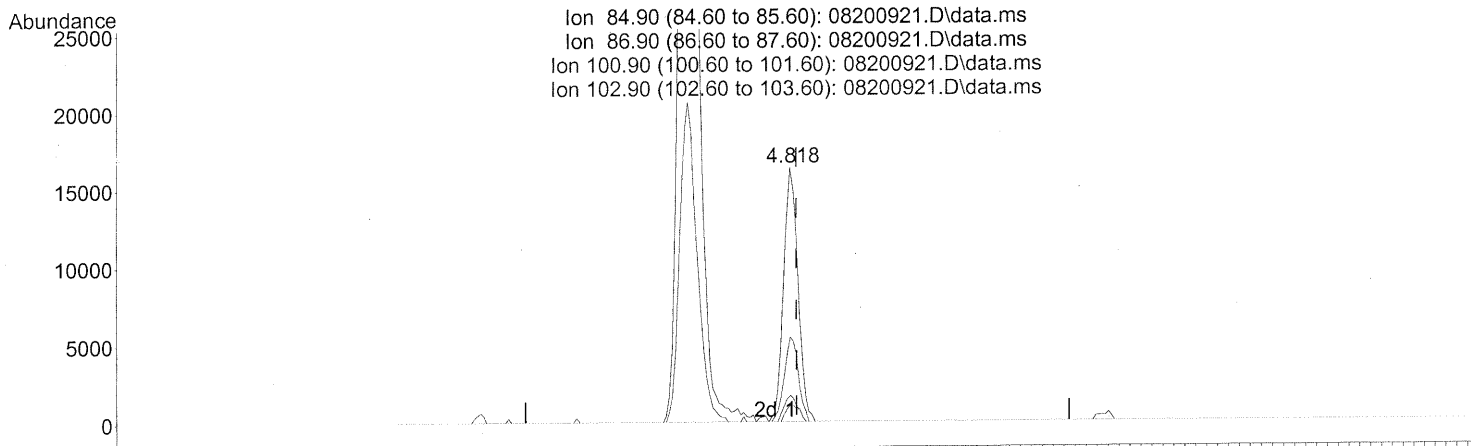
WA 8/22/09

[Signature] 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
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 QLast Update : Thu Aug 06 17:14:07 2009
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.011) 1.12ng

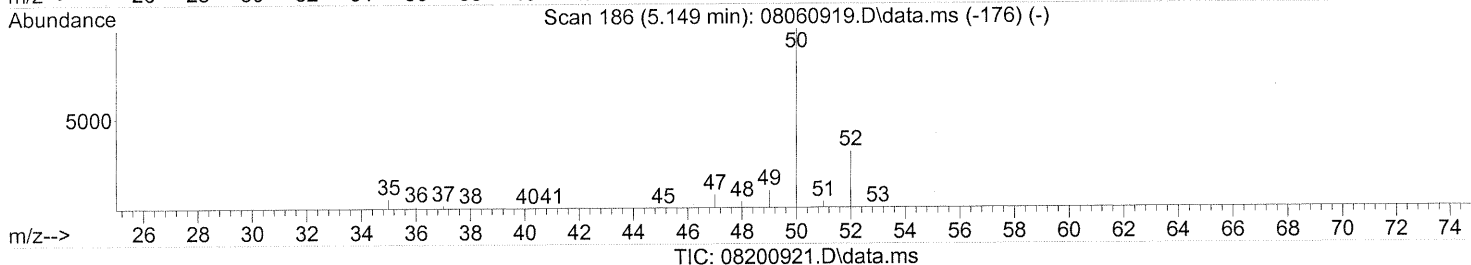
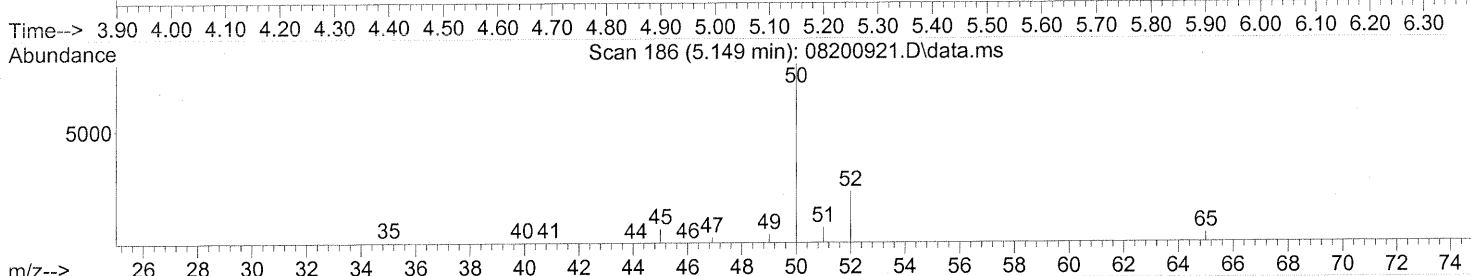
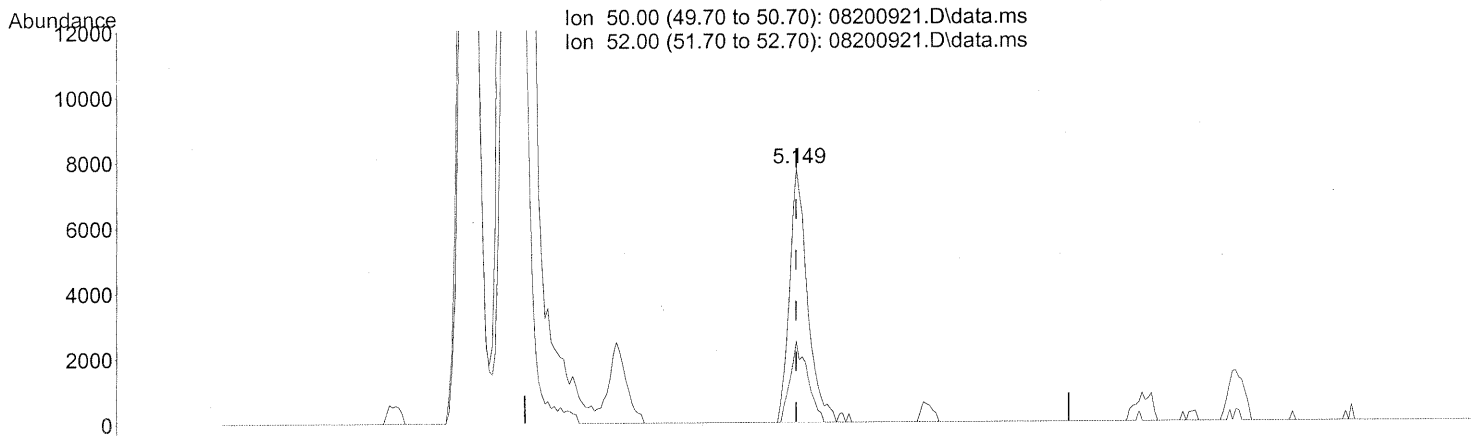
response 29856

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.62
100.90	8.80	9.25
102.90	5.20	5.89

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
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 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.149min (+0.000) 1.00ng

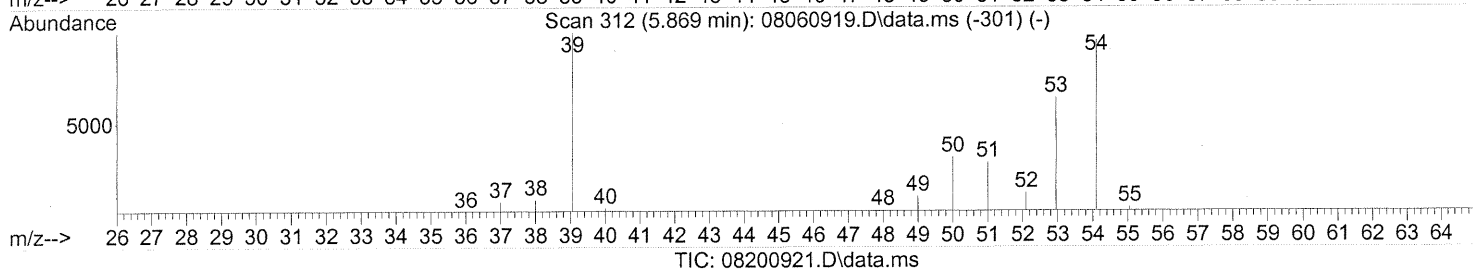
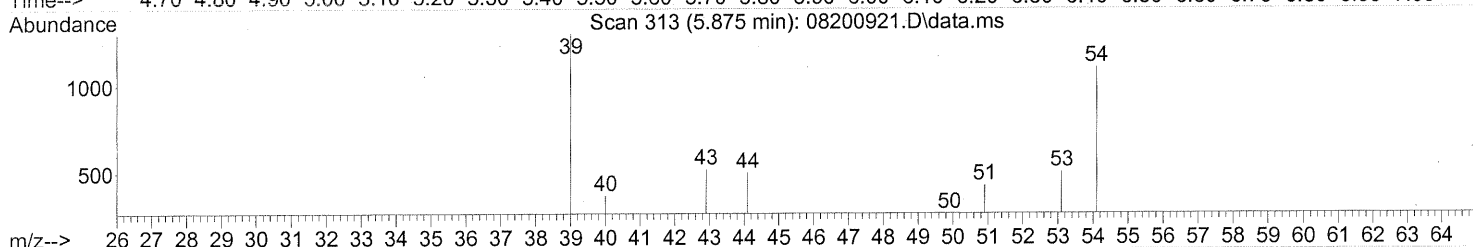
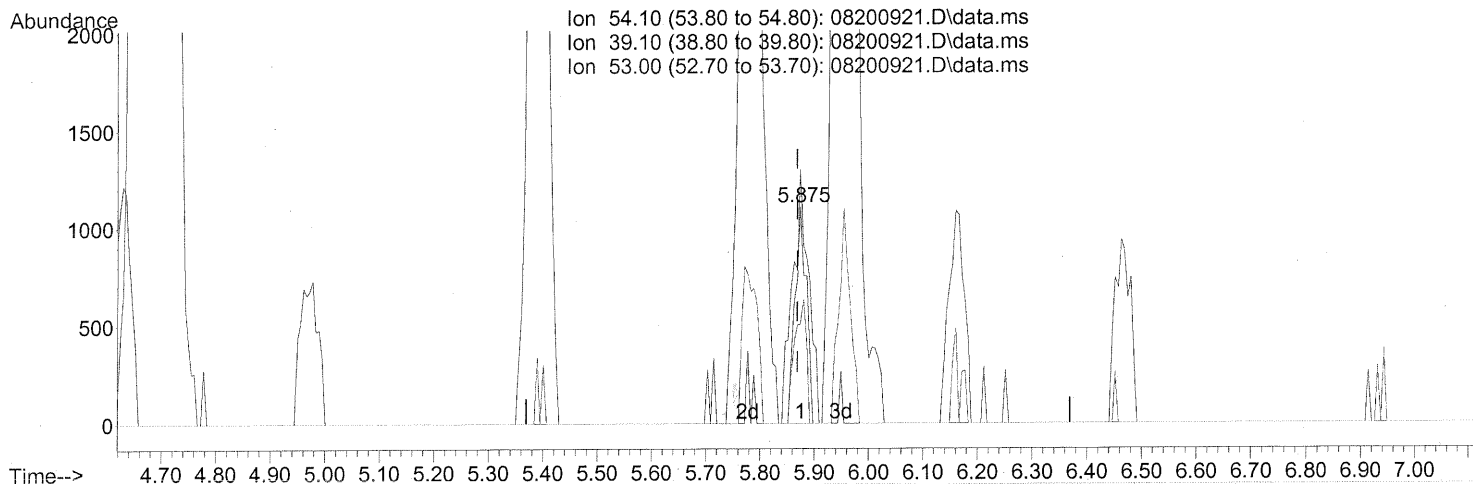
response 17906

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 ALS Vial : 11 Sample Multiplier: 1

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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.875min (+0.006) 0.13ng

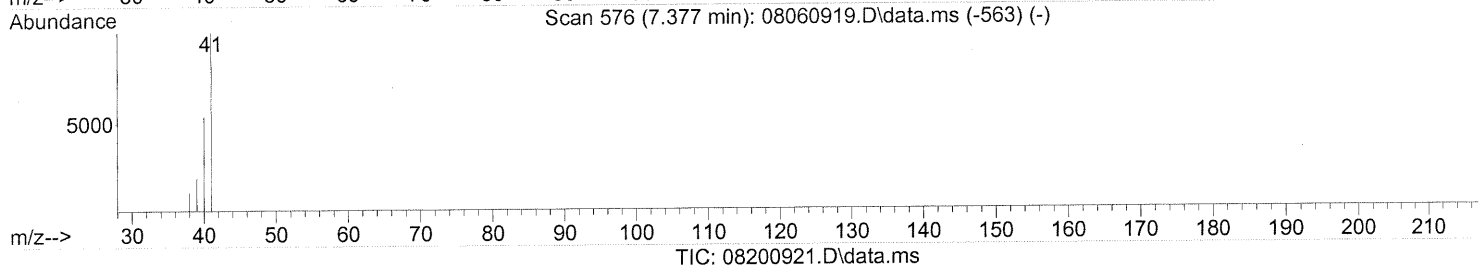
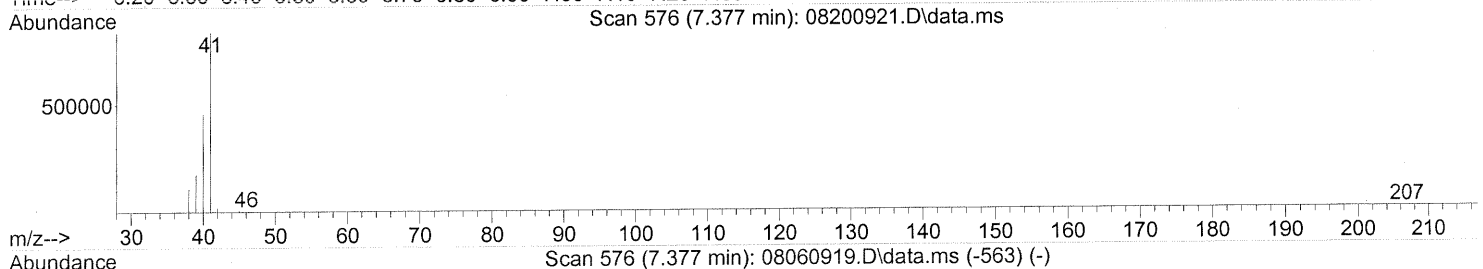
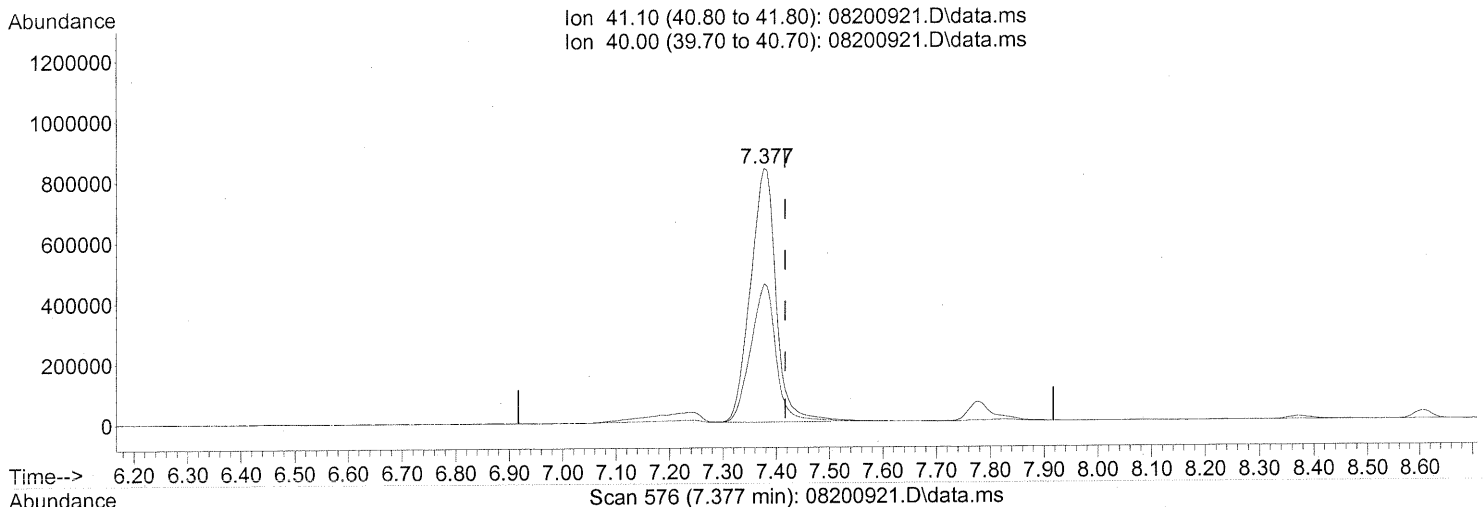
response 1610

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	164.47#
53.00	69.50	58.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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Operator : WA
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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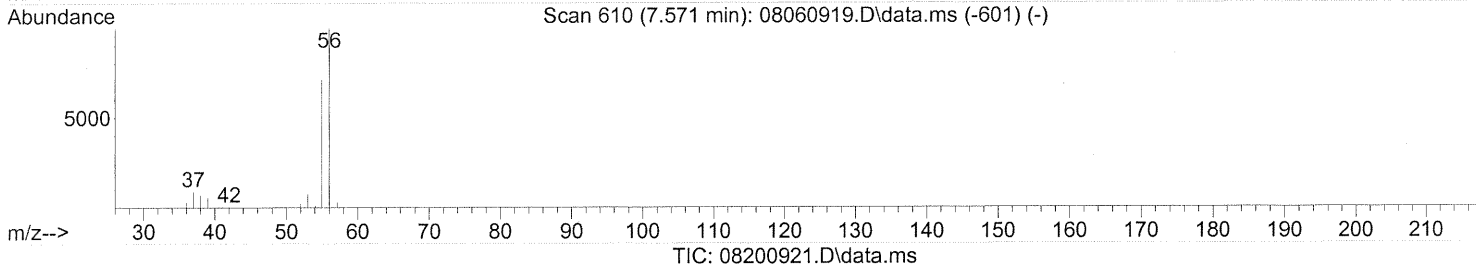
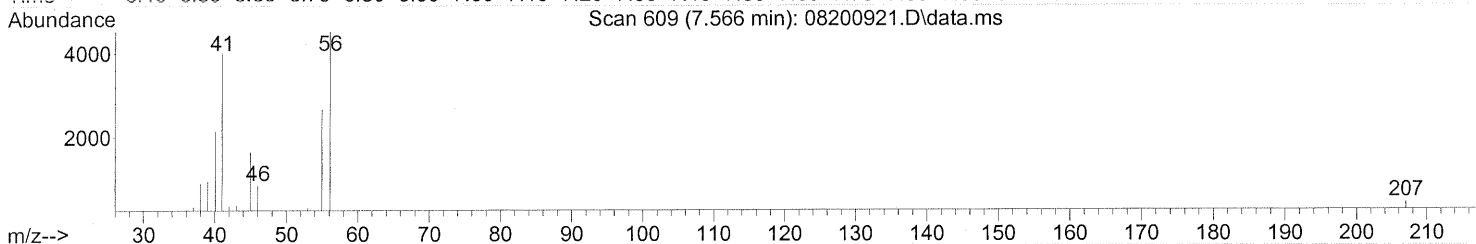
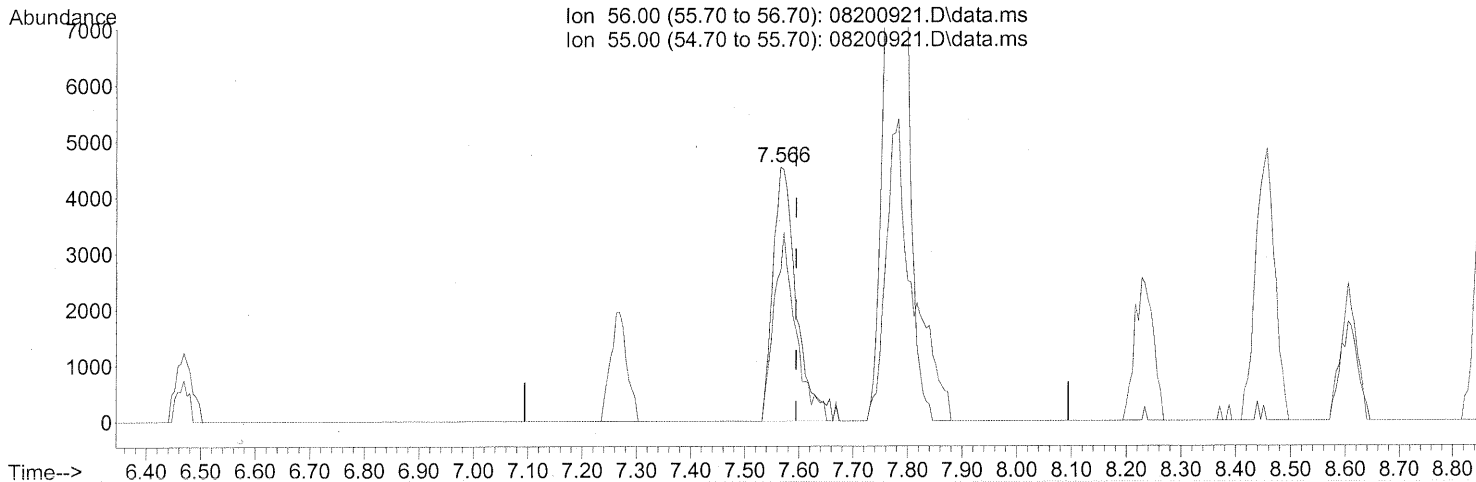
(11) Acetonitrile (T)
7.377min (-0.040) 92.20ng
response 2802090

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Operator : WA
Sample : P0902805-004 (500mL)
Misc : Environmental Health 101398
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



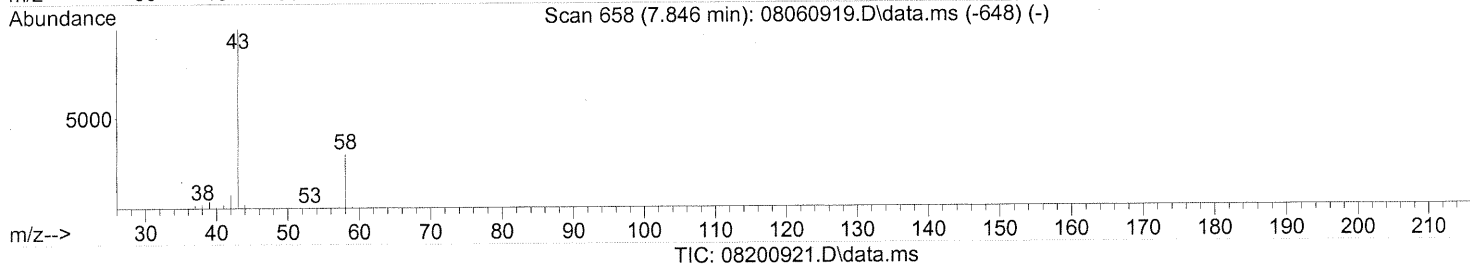
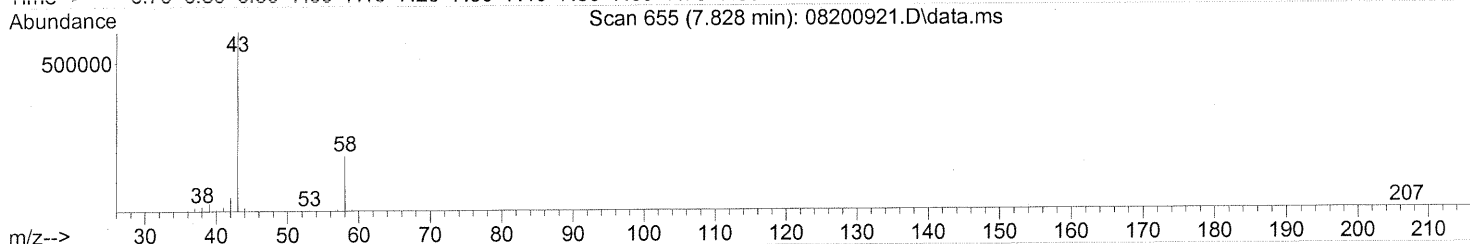
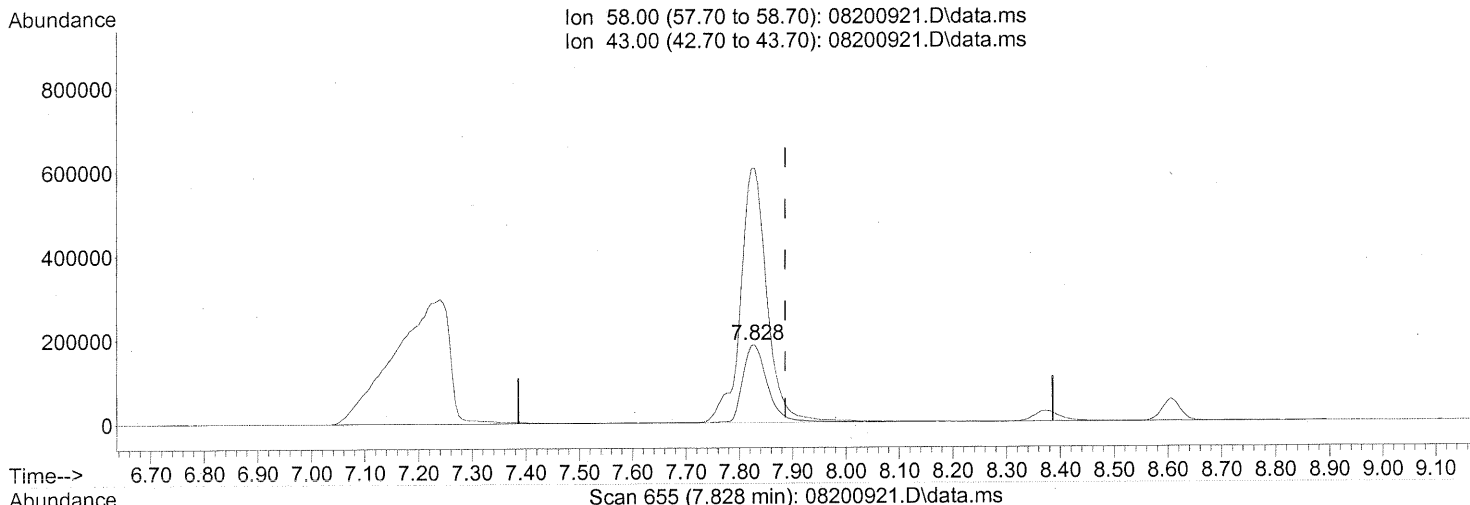
(12) Acrolein (T)
7.566min (-0.029) 1.73ng
response 13672

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Response via : Initial Calibration



(13) Acetone (T)

7.828min (-0.058) 60.62ng

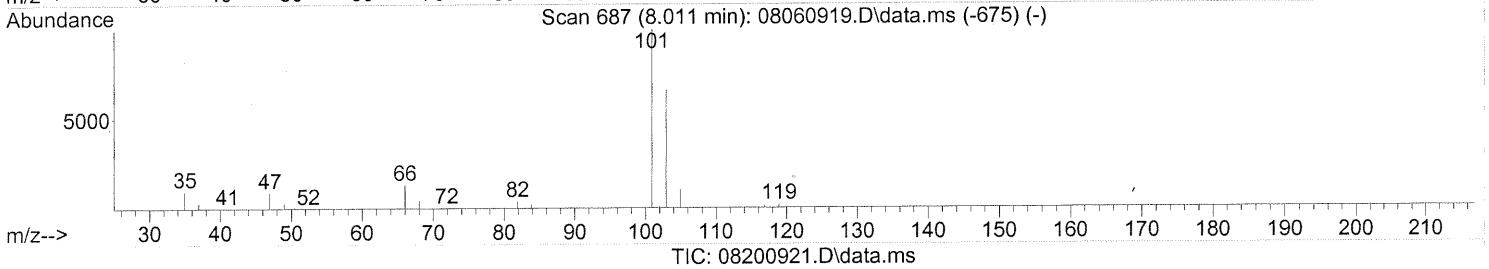
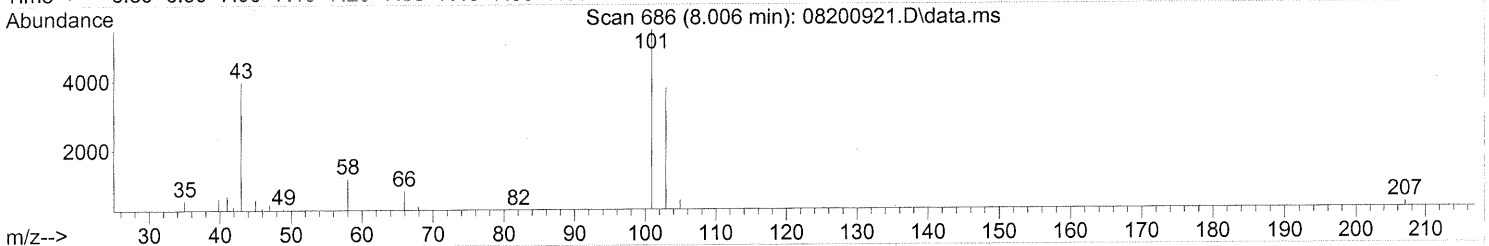
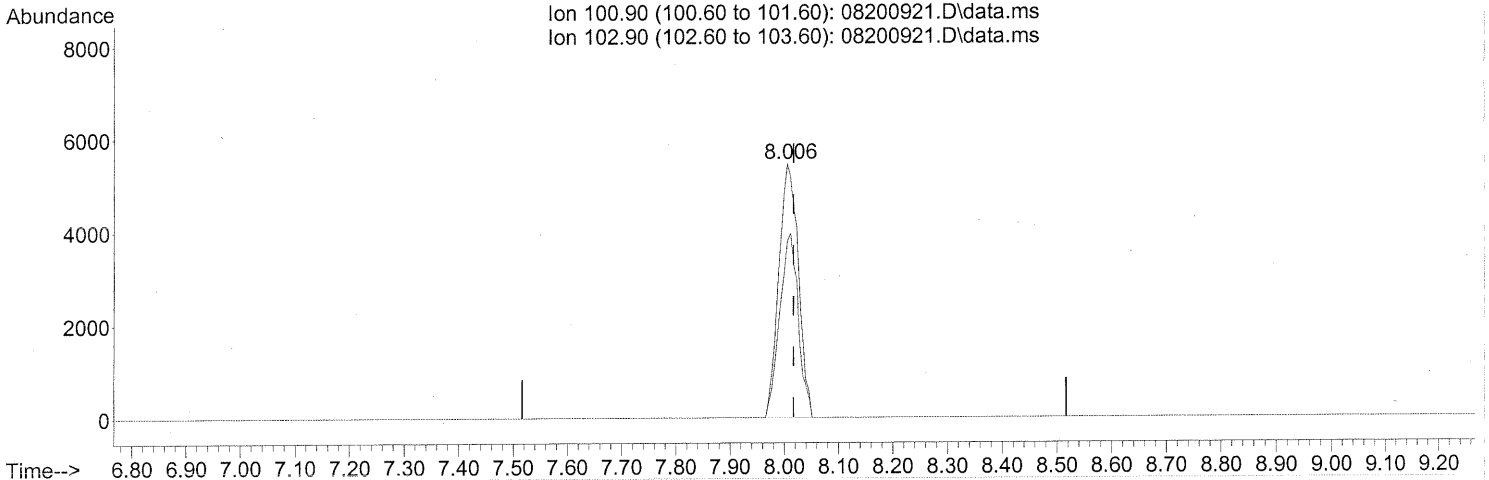
response 593501

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	354.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.006min (-0.011) 0.56ng

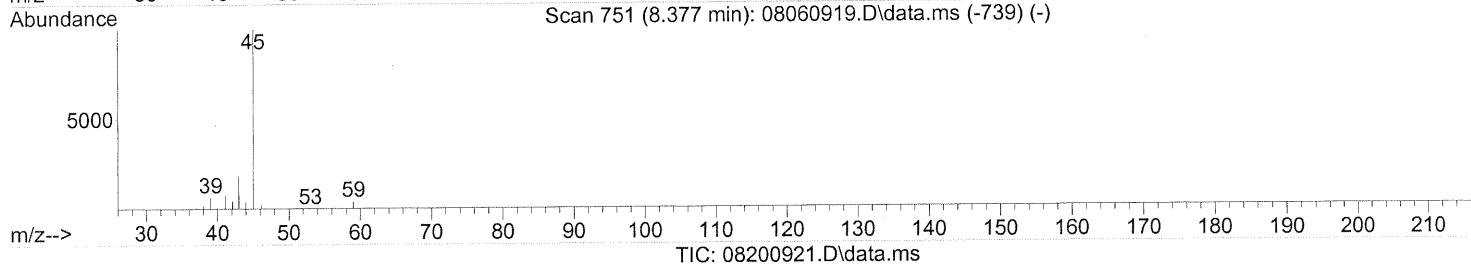
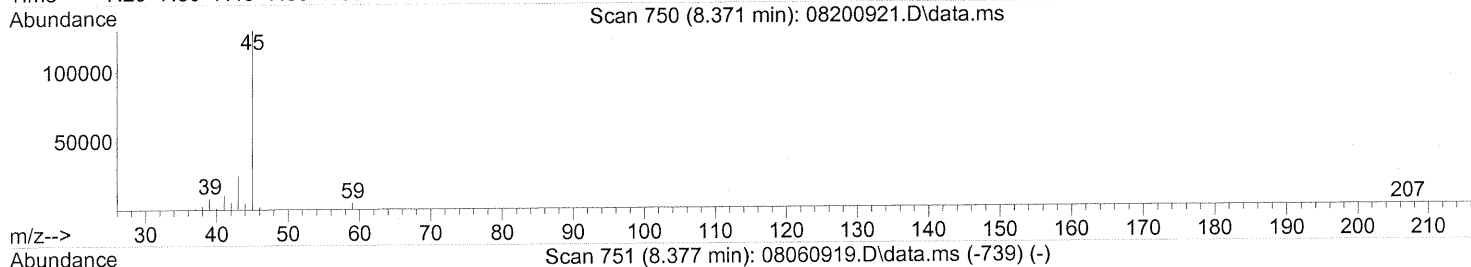
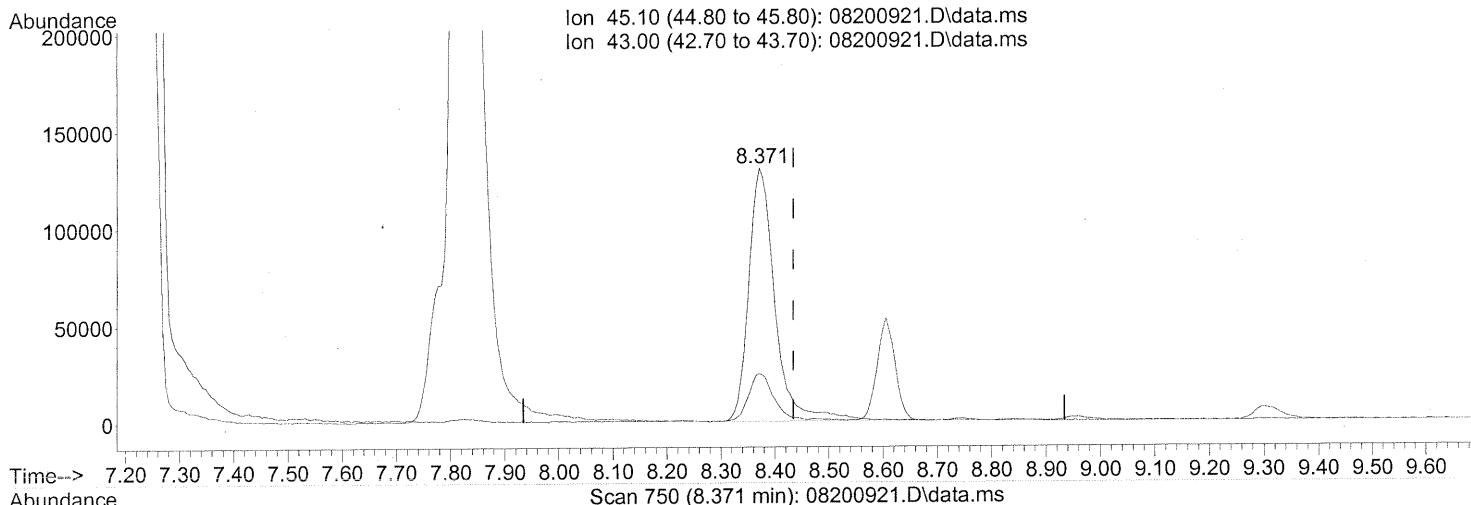
response 13612

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	68.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.371min (-0.063) 11.47ng

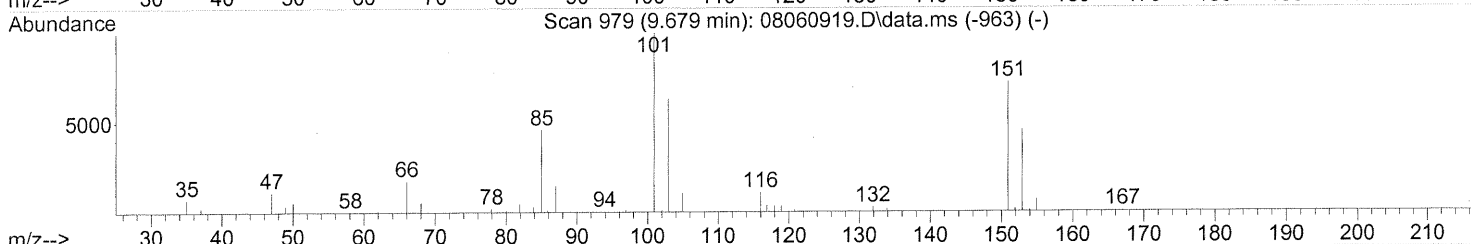
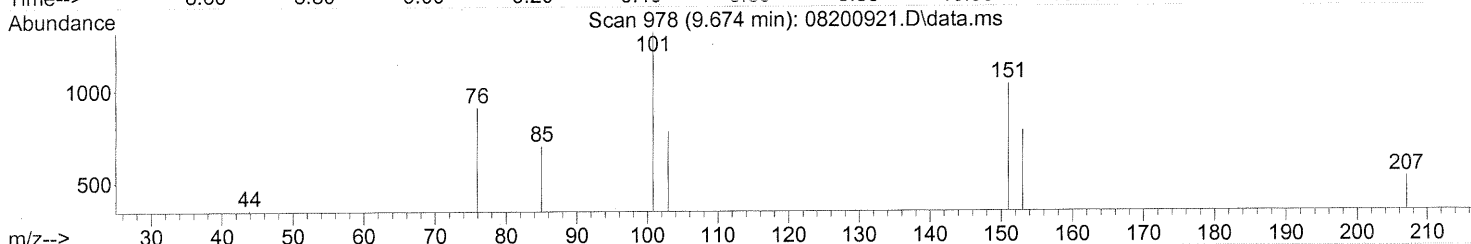
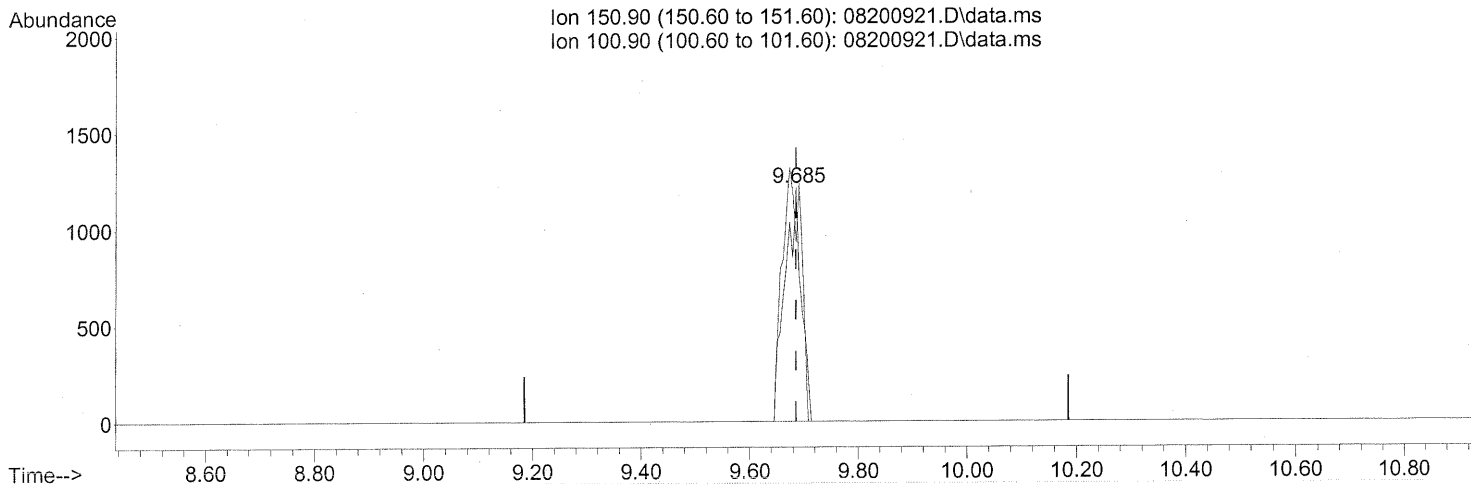
response 441160

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
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 Misc : Environmental Health 101398
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 Response via : Initial Calibration



TIC: 08200921.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.685min (+0.000) 0.29ng

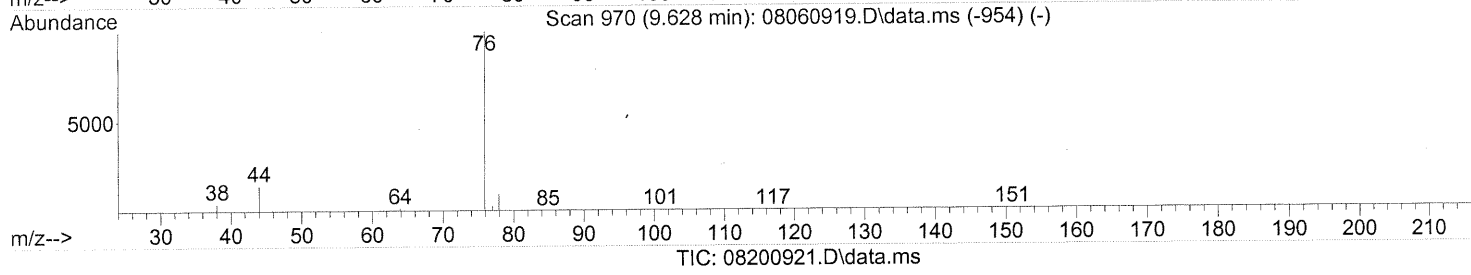
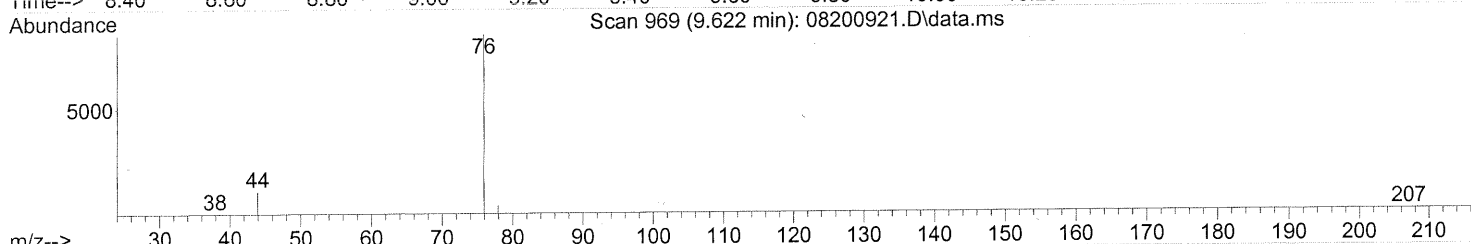
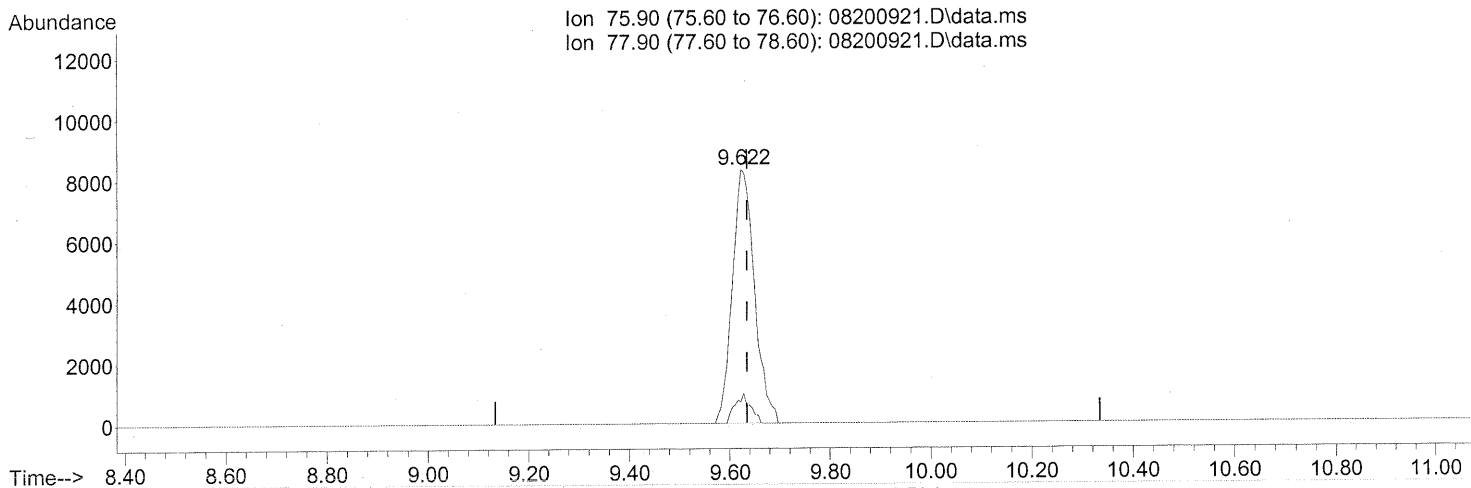
response 2559

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	120.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.622min (-0.011) 0.55ng

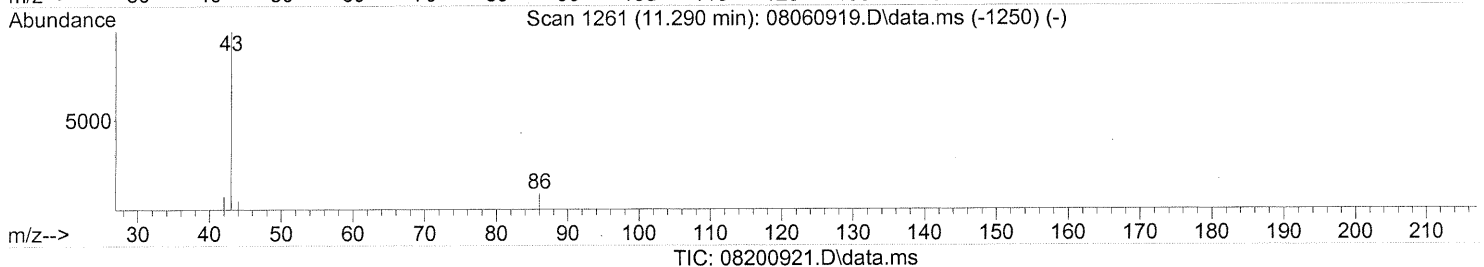
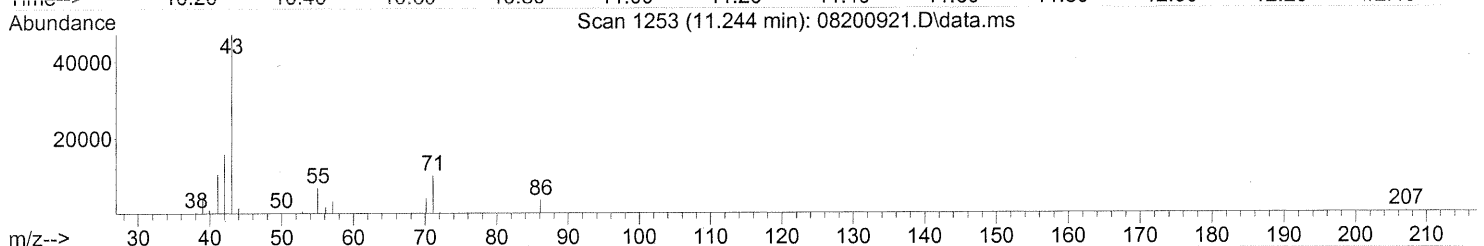
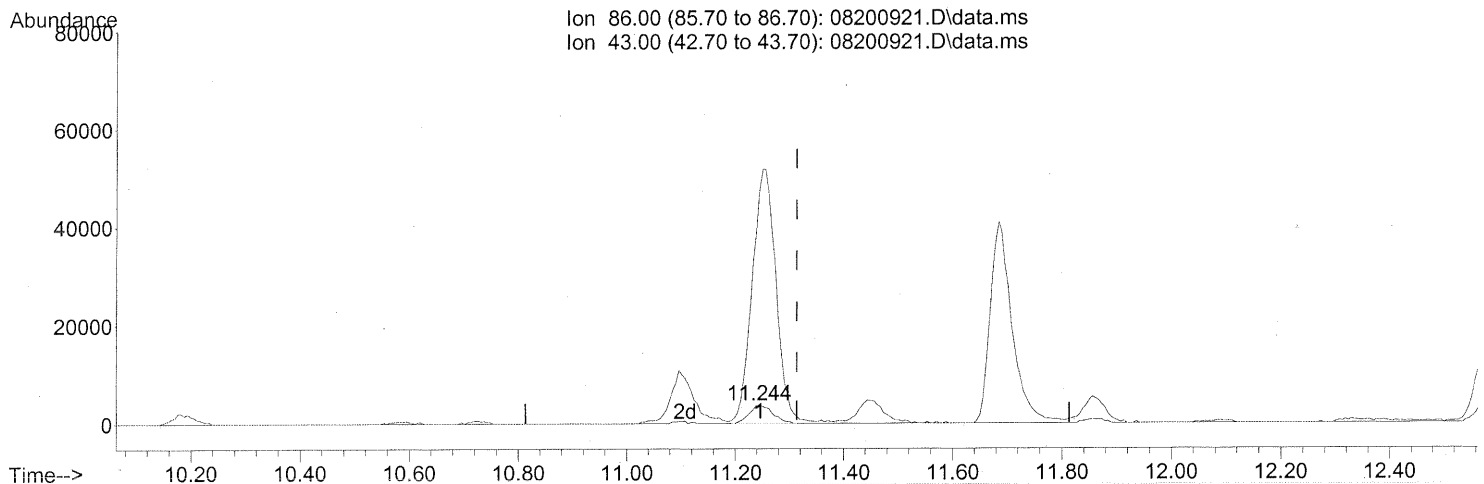
response 25457

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08200921.D
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 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.244min (-0.069) 5.57ng

response 11103

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1429.62#
0.00	0.00	0.00
0.00	0.00	0.00

FP

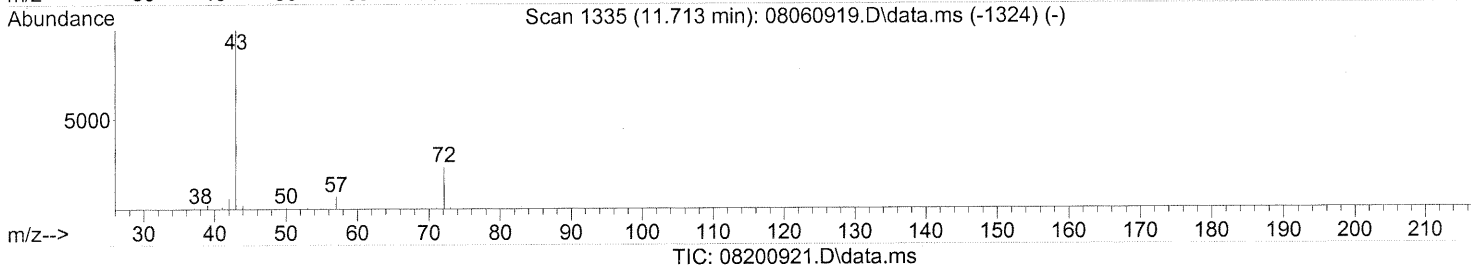
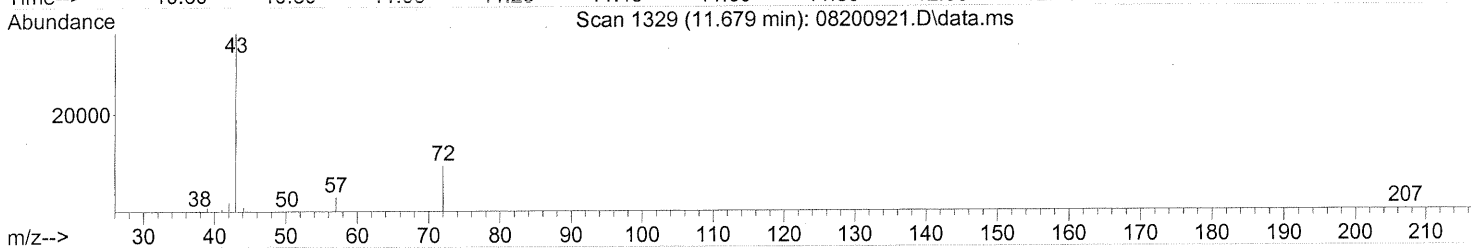
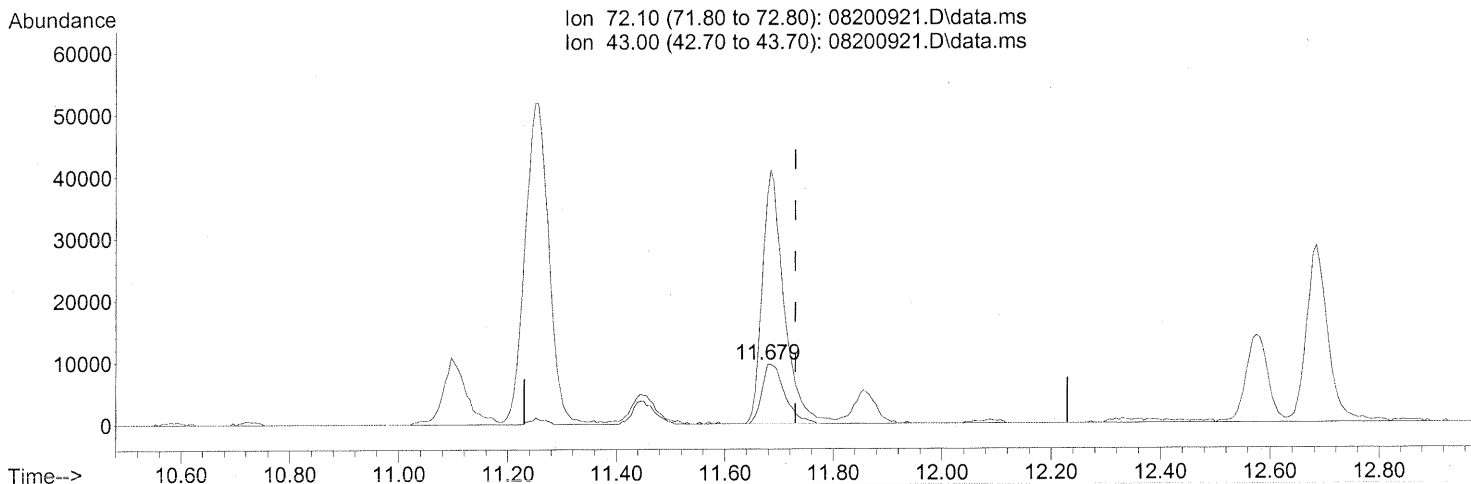
8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.679min (-0.051) 3.17ng

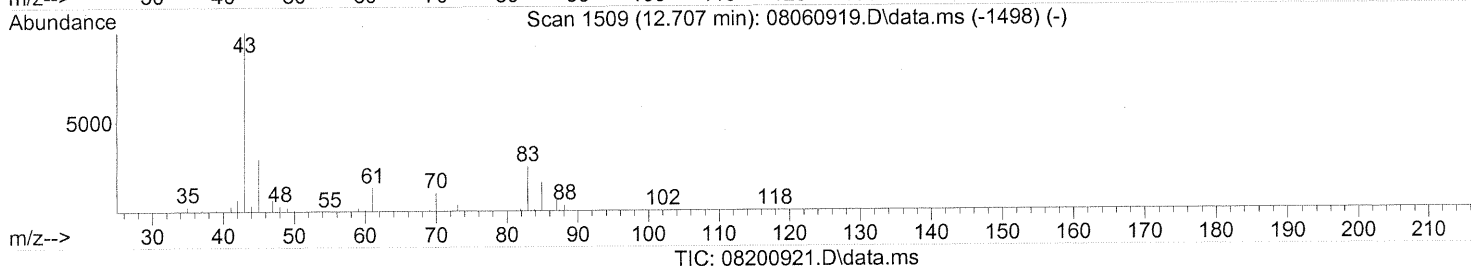
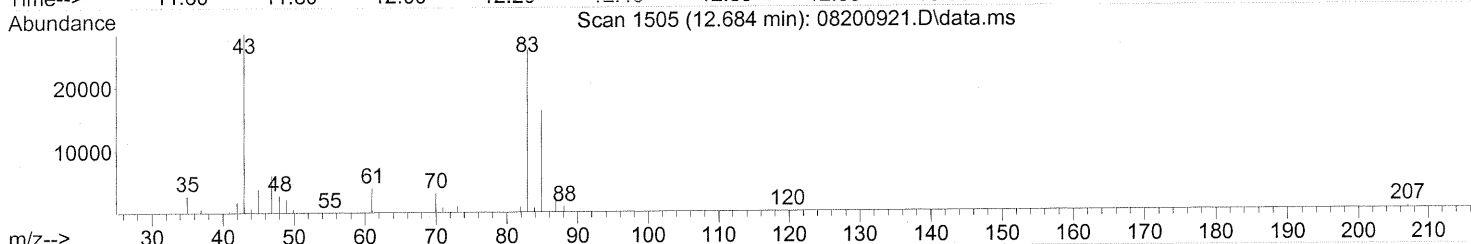
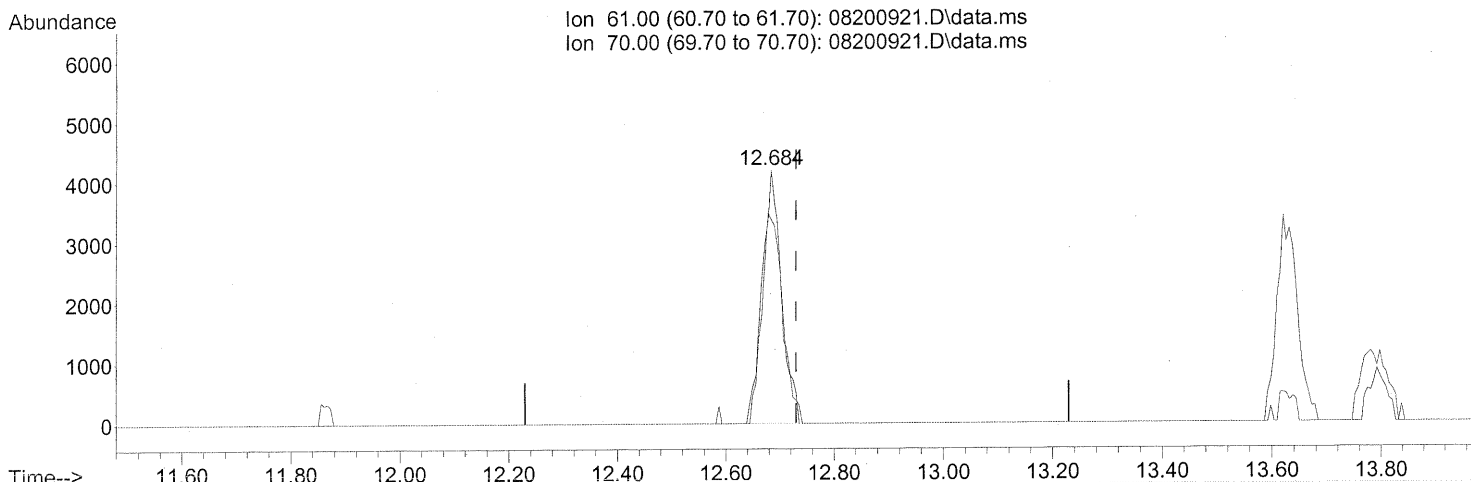
response 28035

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	407.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.684min (-0.046) 2.28ng

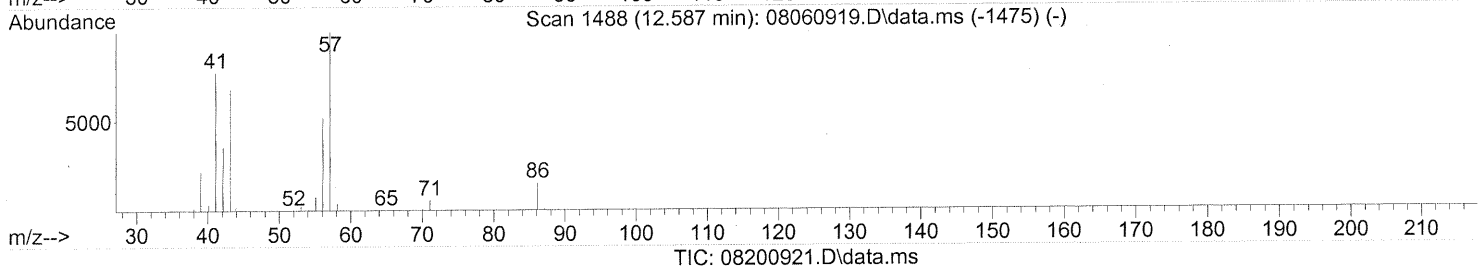
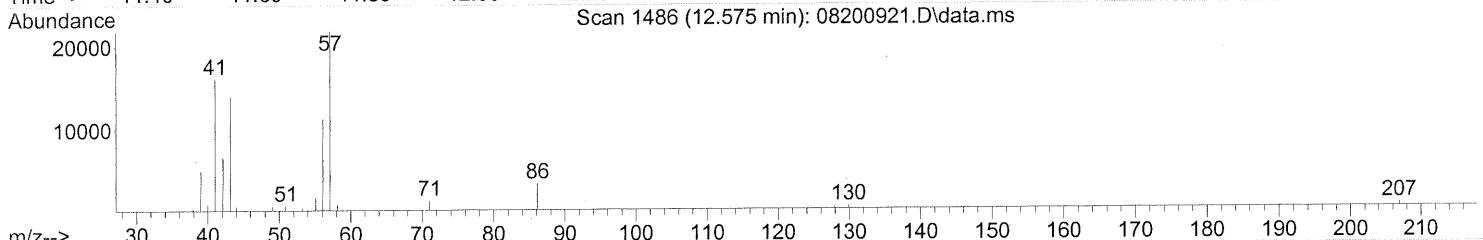
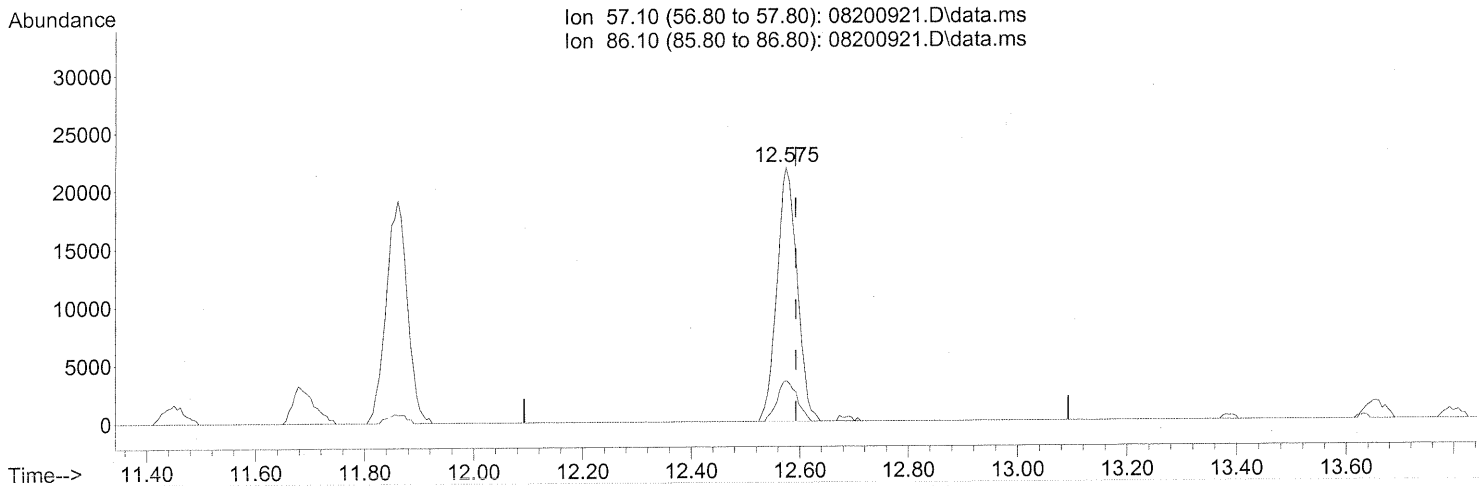
response 10489

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	88.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



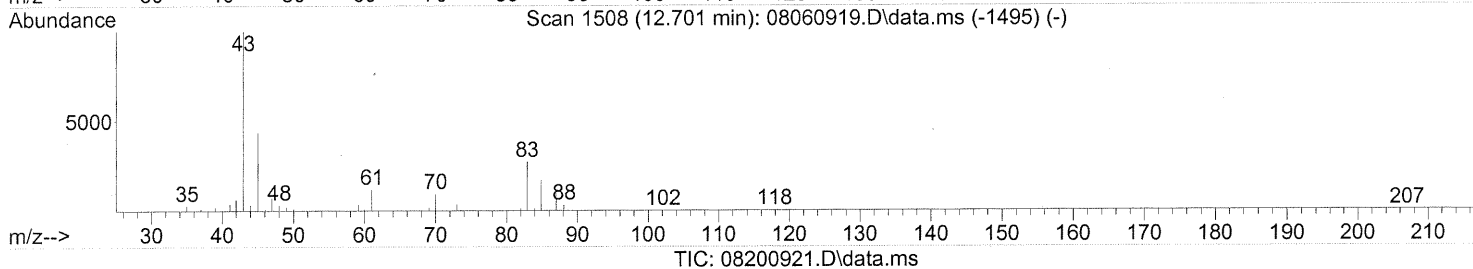
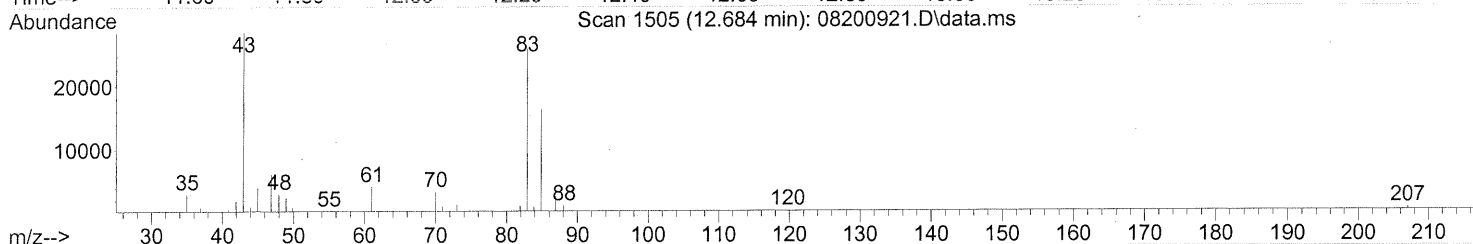
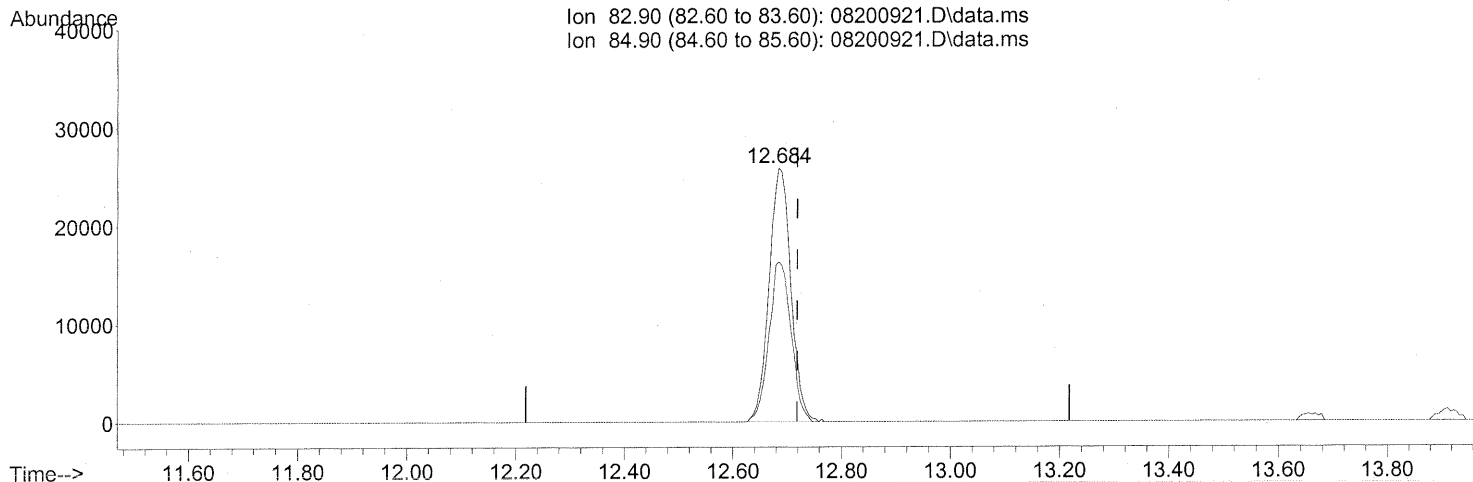
(31) n-Hexane (T)
 12.575min (-0.017) 2.39ng
 response 56276

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.684min (-0.034) 3.50ng

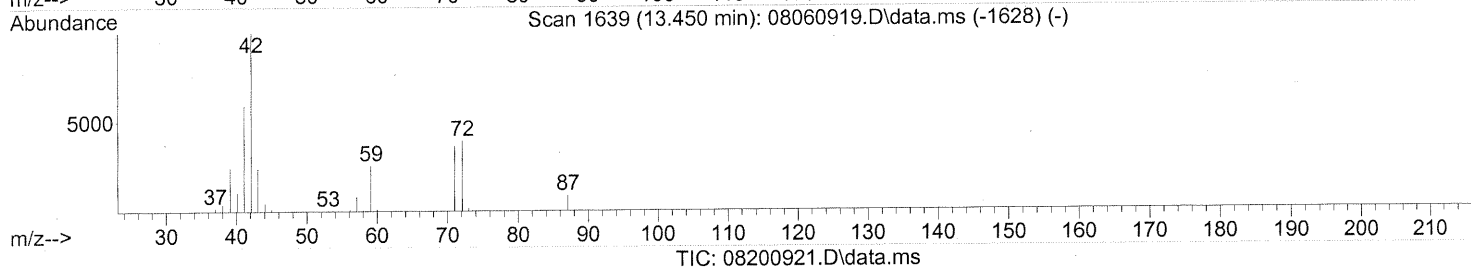
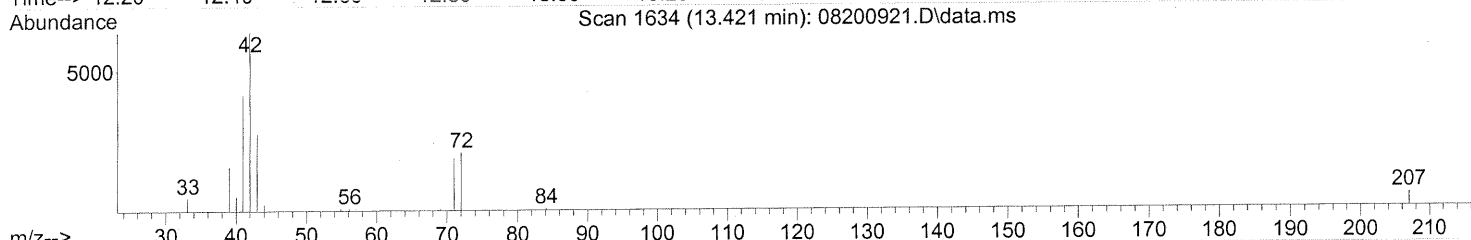
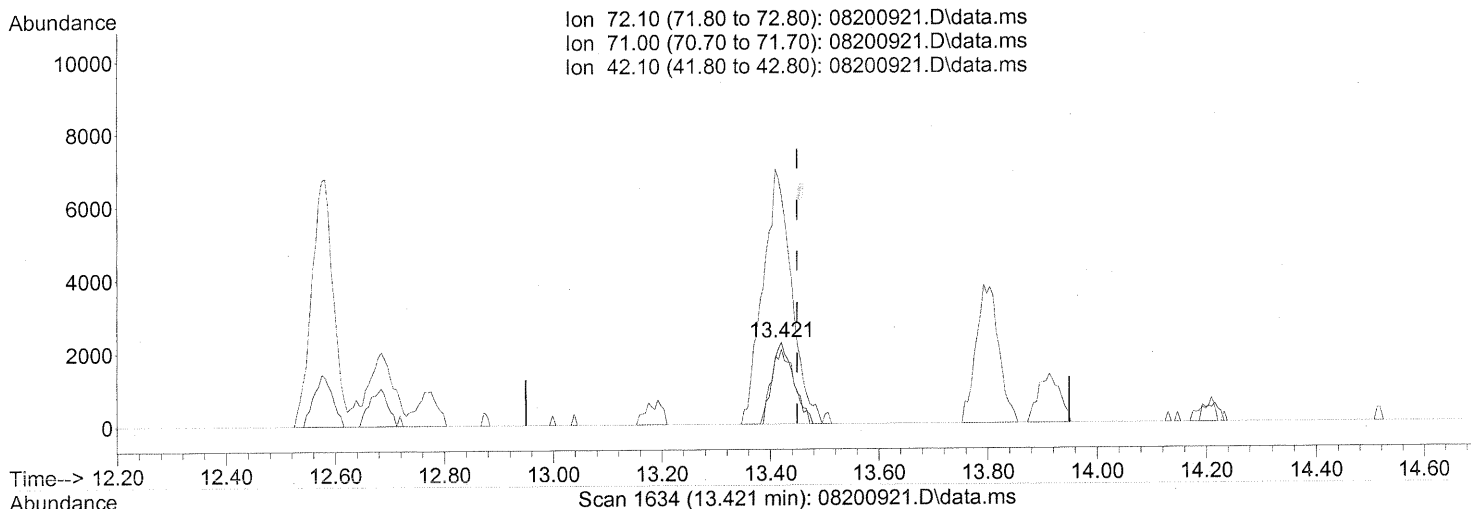
response 72578

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 0.65ng

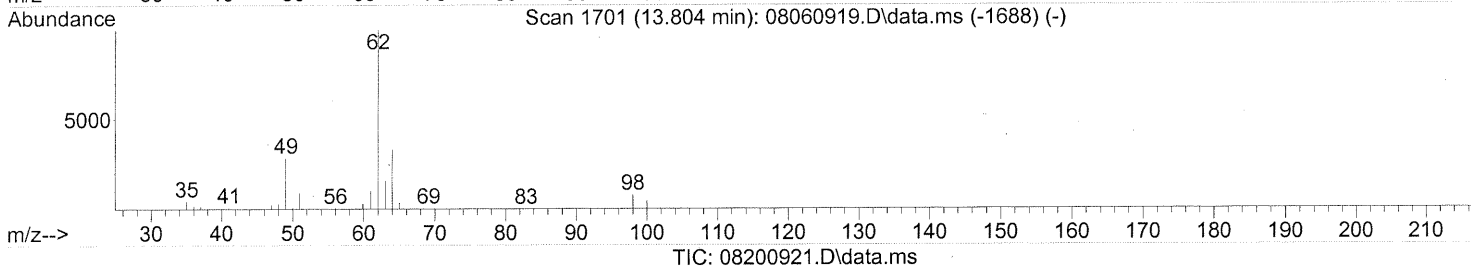
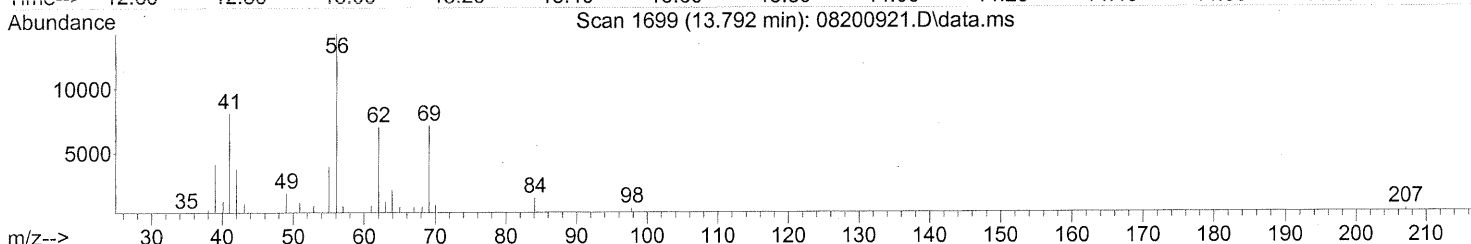
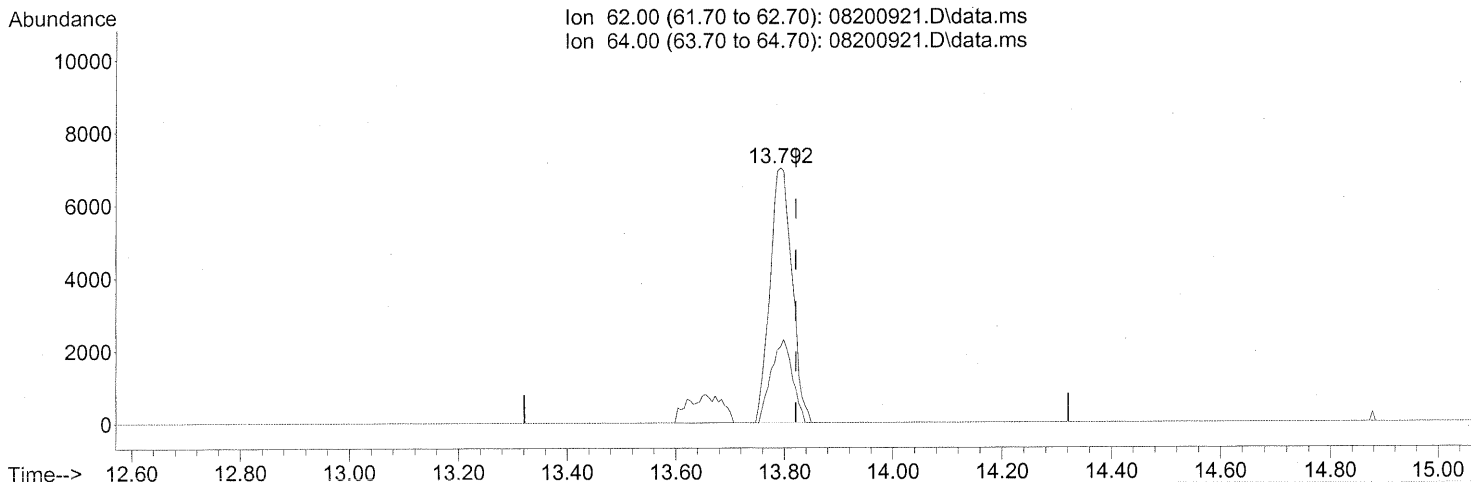
response 6106

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	95.82
42.10	253.40	417.52#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.04ng

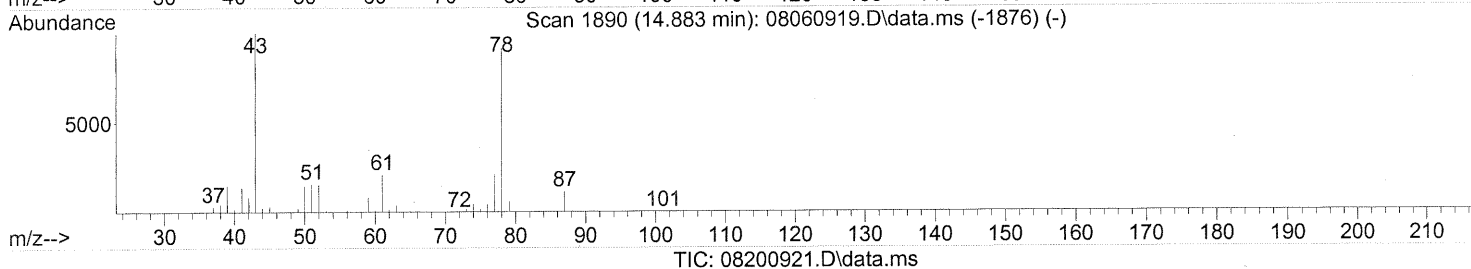
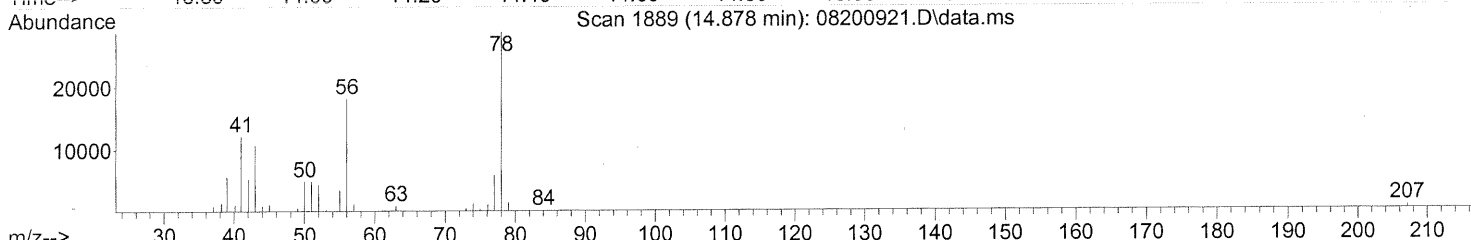
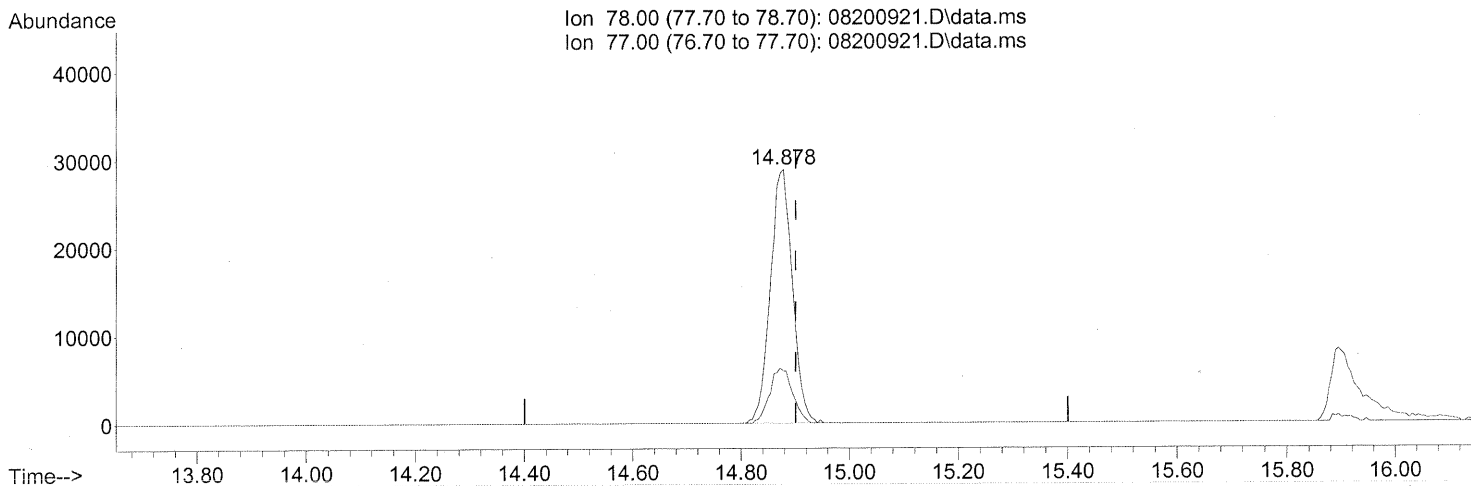
response 19782

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



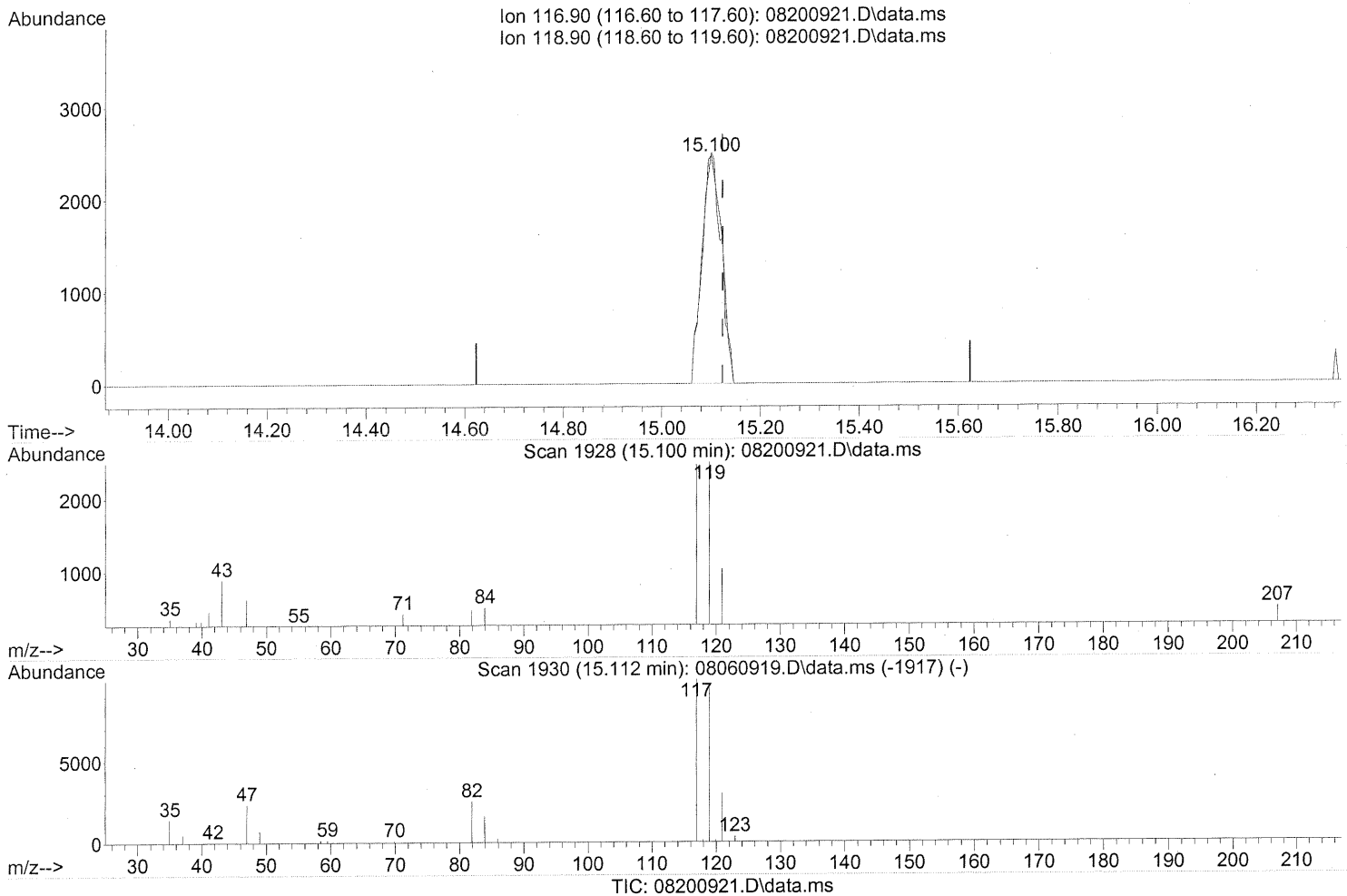
(41) Benzene (T)
 14.878min (-0.023) 1.54ng
 response 81054

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200921.D
Acq On : 21 Aug 2009 00:01
Operator : WA
Sample : P0902805-004 (500mL)
Misc : Environmental Health 101398
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.41ng

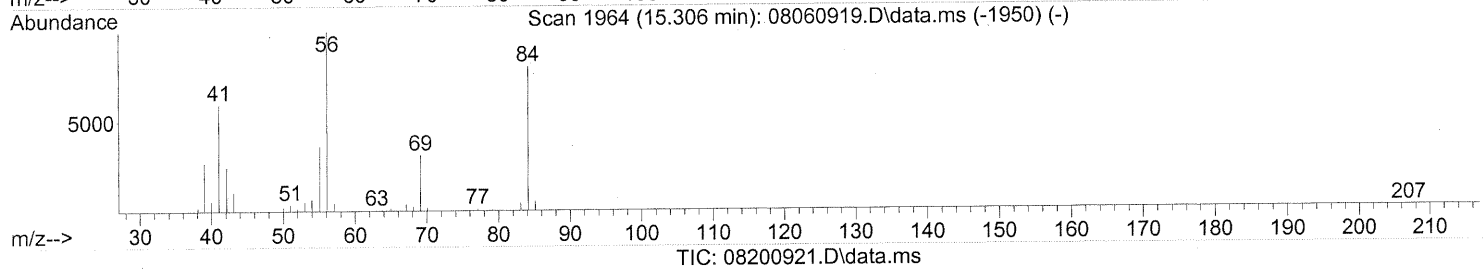
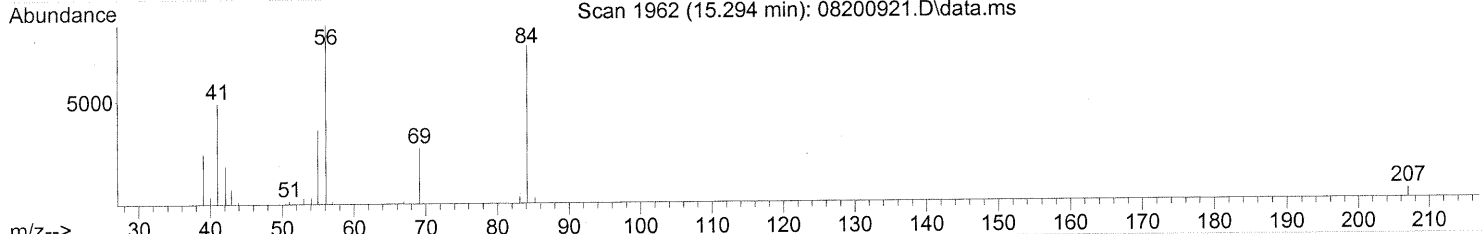
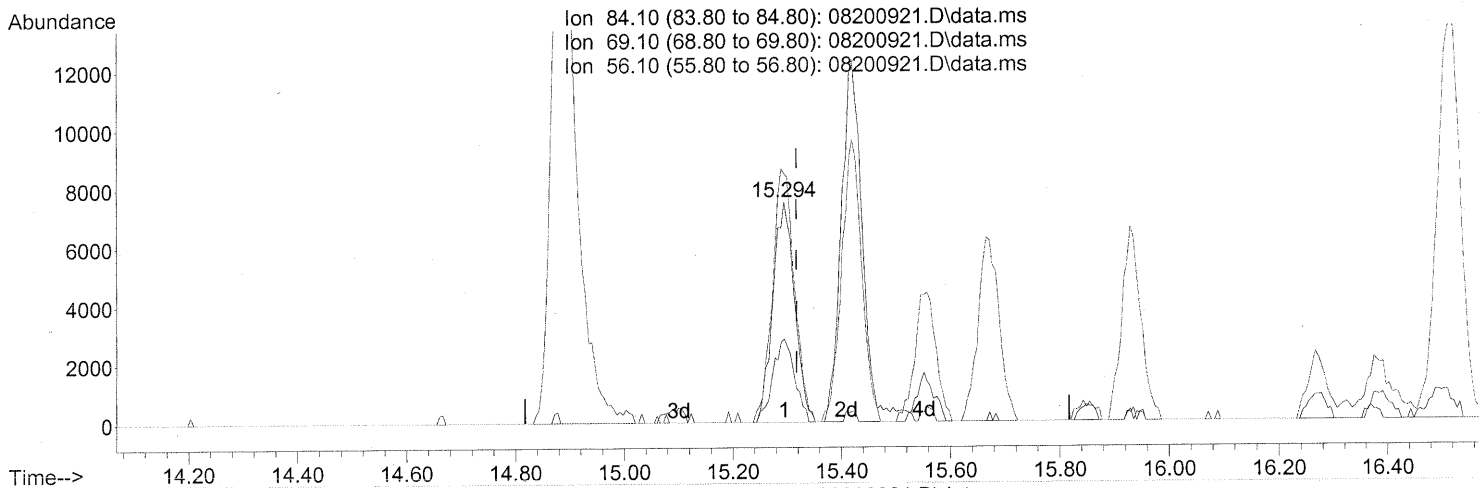
response 6842

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



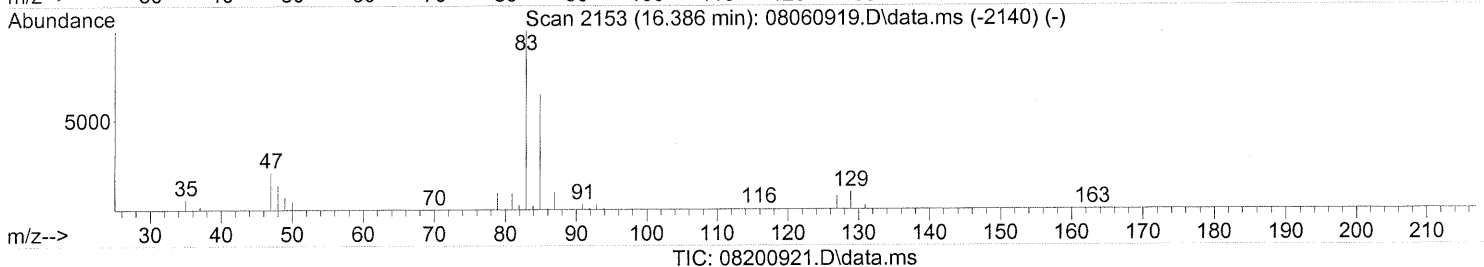
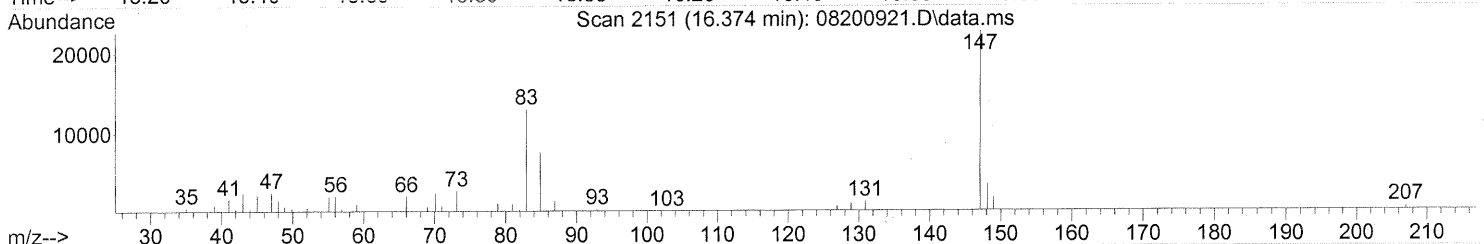
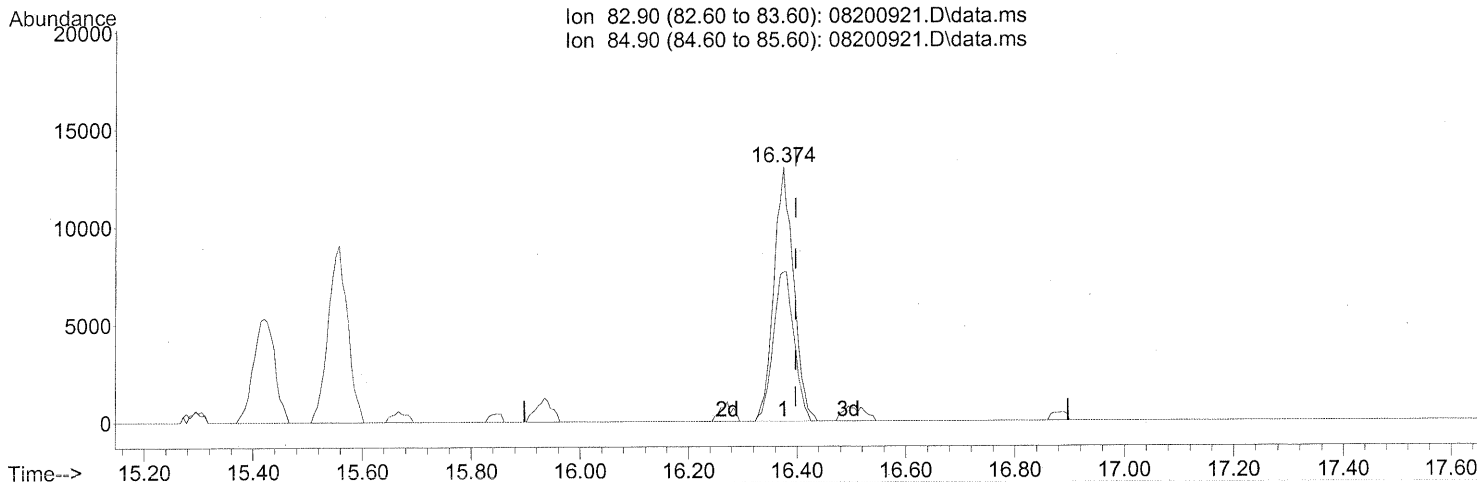
(43) Cyclohexane (T)
 15.294min (-0.023) 1.08ng
 response 20901

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.92
56.10	127.50	117.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.374min (-0.023) 1.89ng

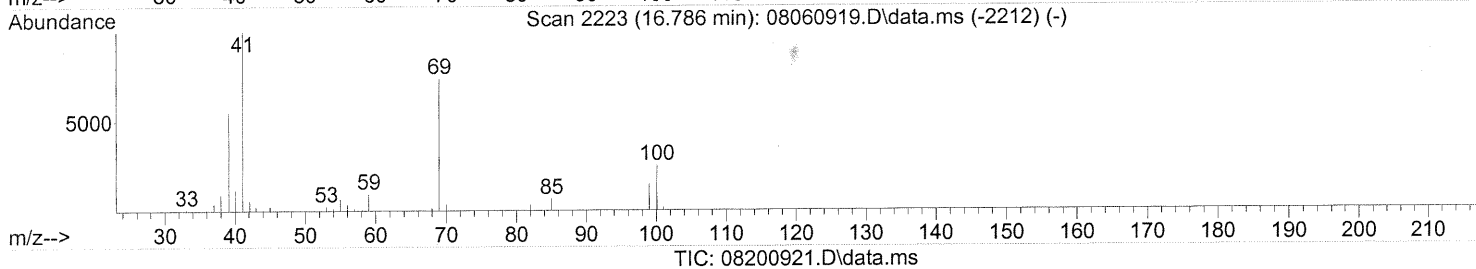
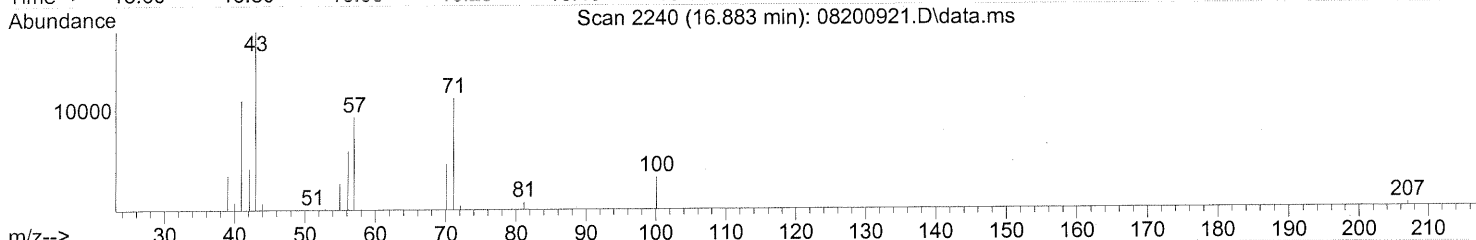
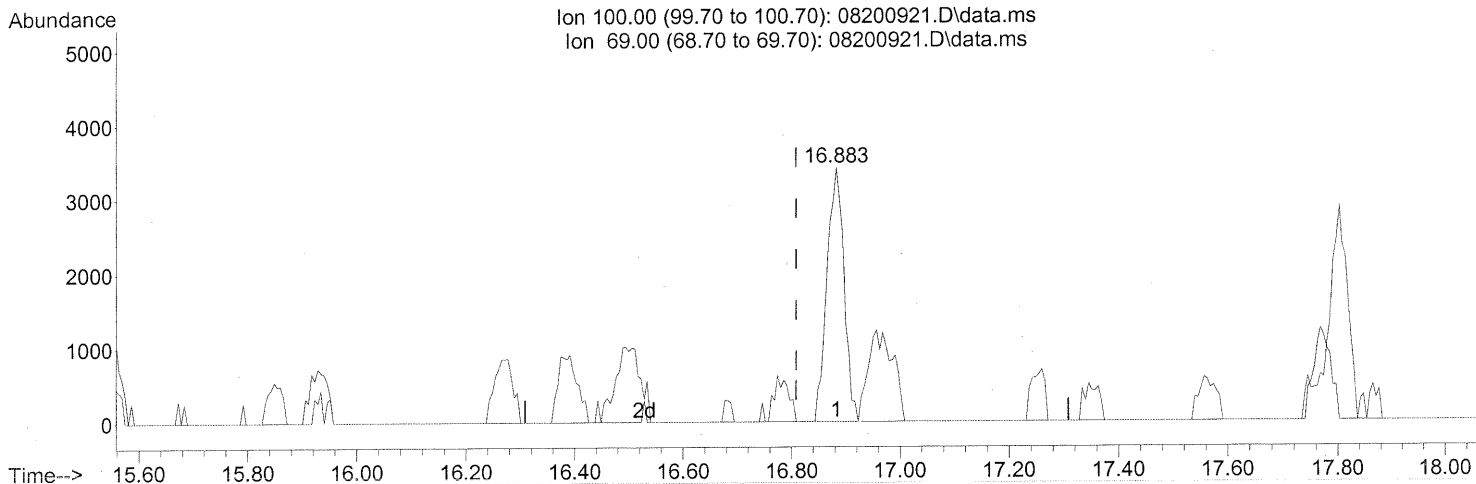
response 32876

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	62.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.883min (+0.074) 1.54ng

response 7449

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

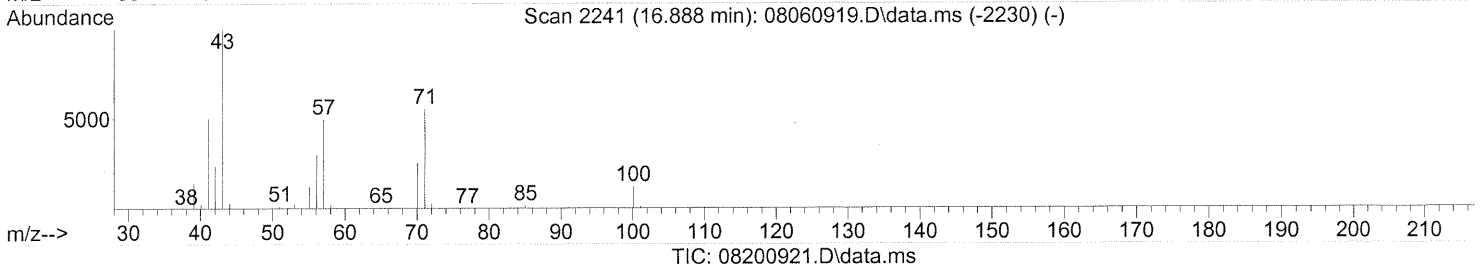
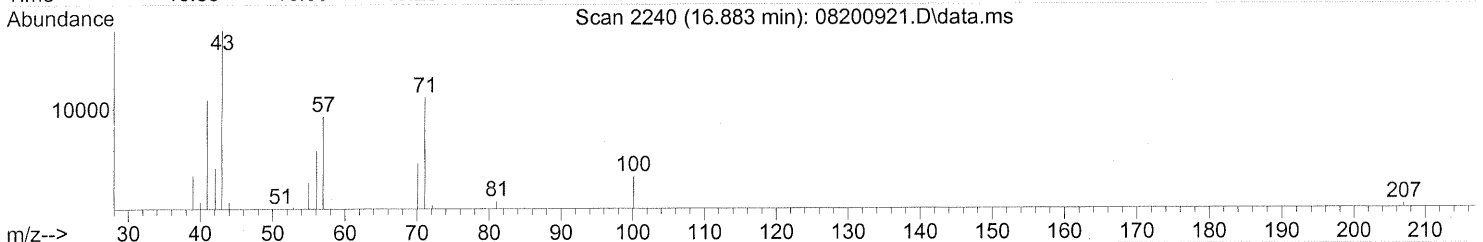
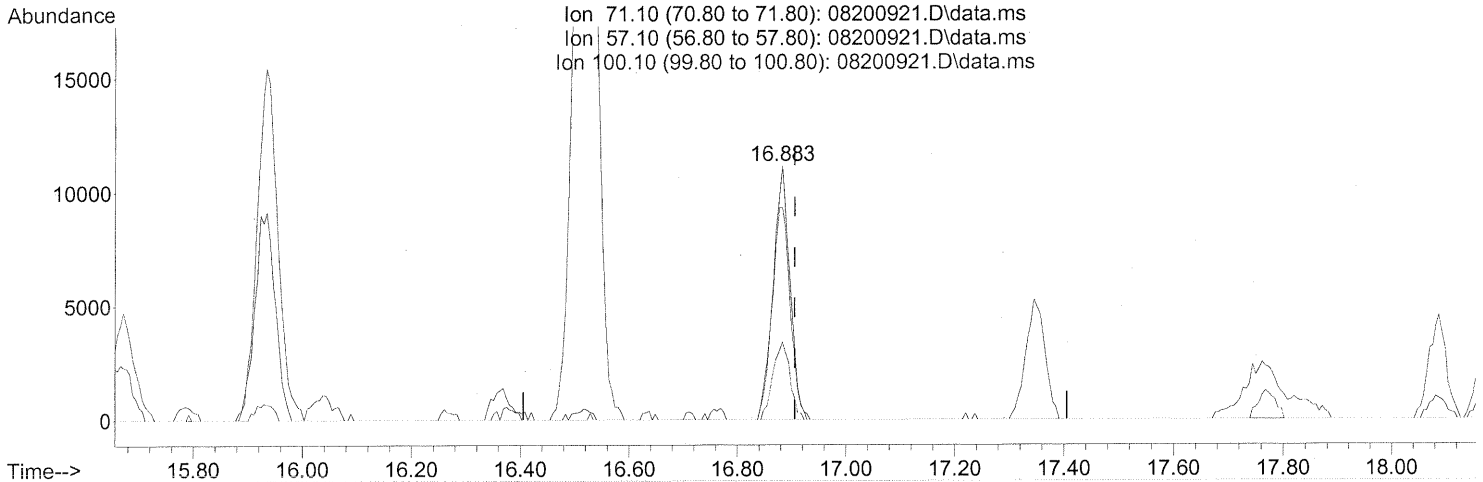
WA 8/22/09

← R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



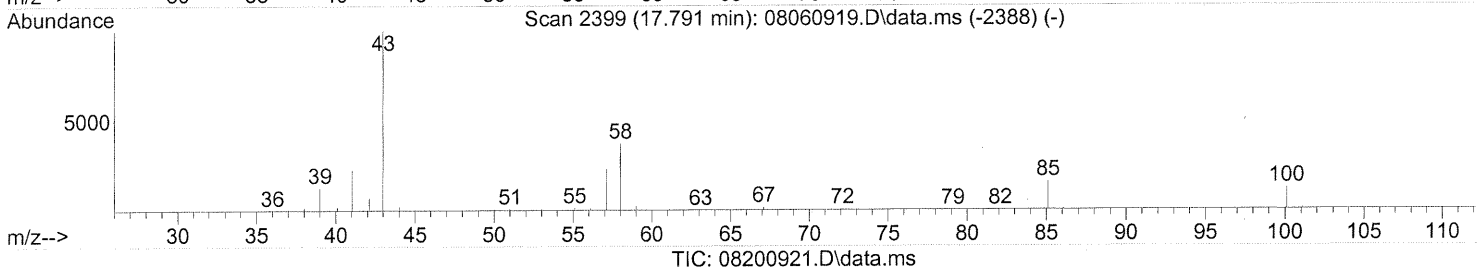
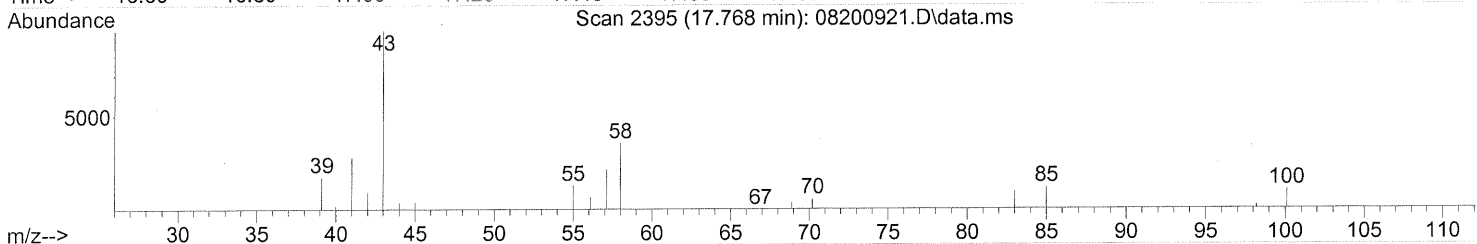
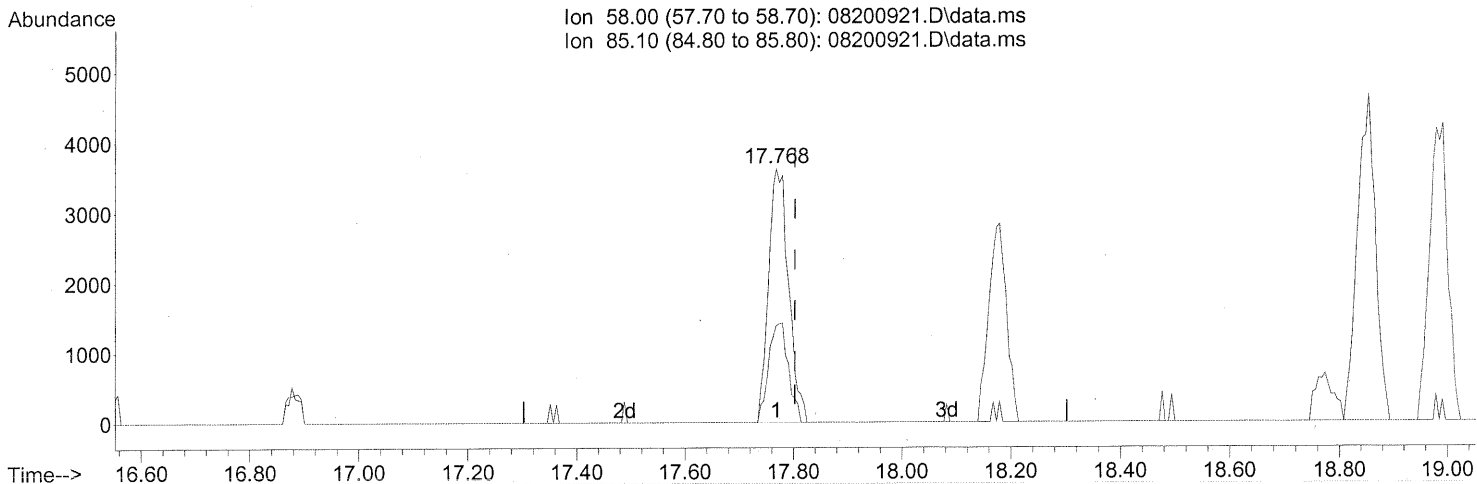
(51) n-Heptane (T)
 16.883min (-0.023) 1.71ng
 response 24247

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	89.15
100.10	26.40	30.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (-0.034) 0.73ng

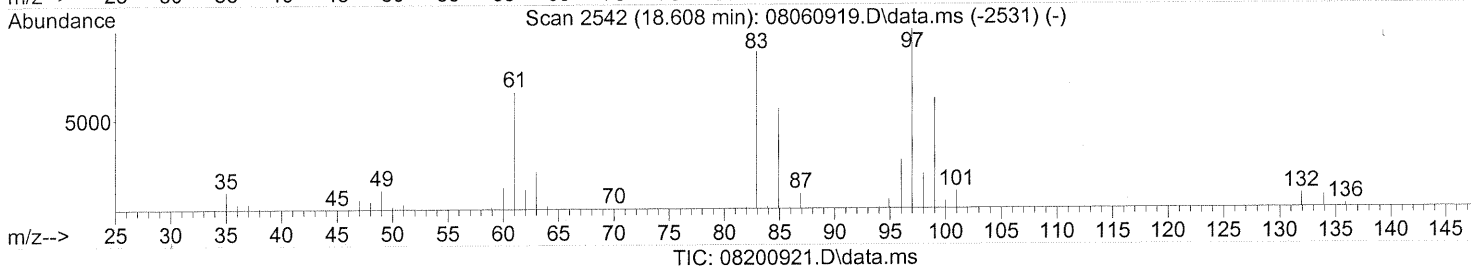
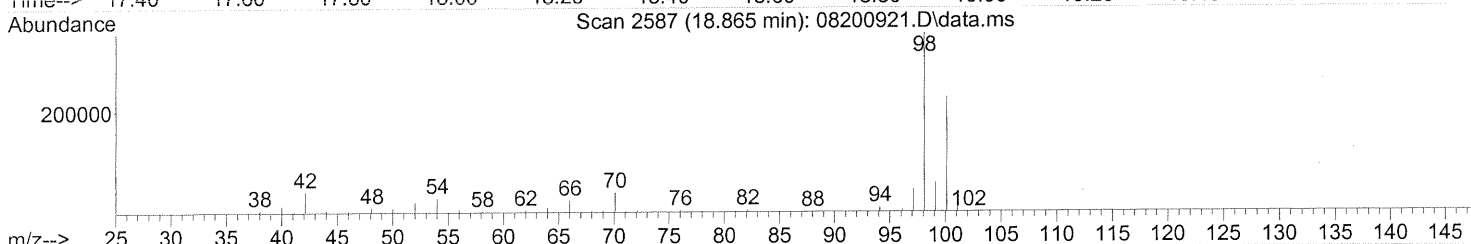
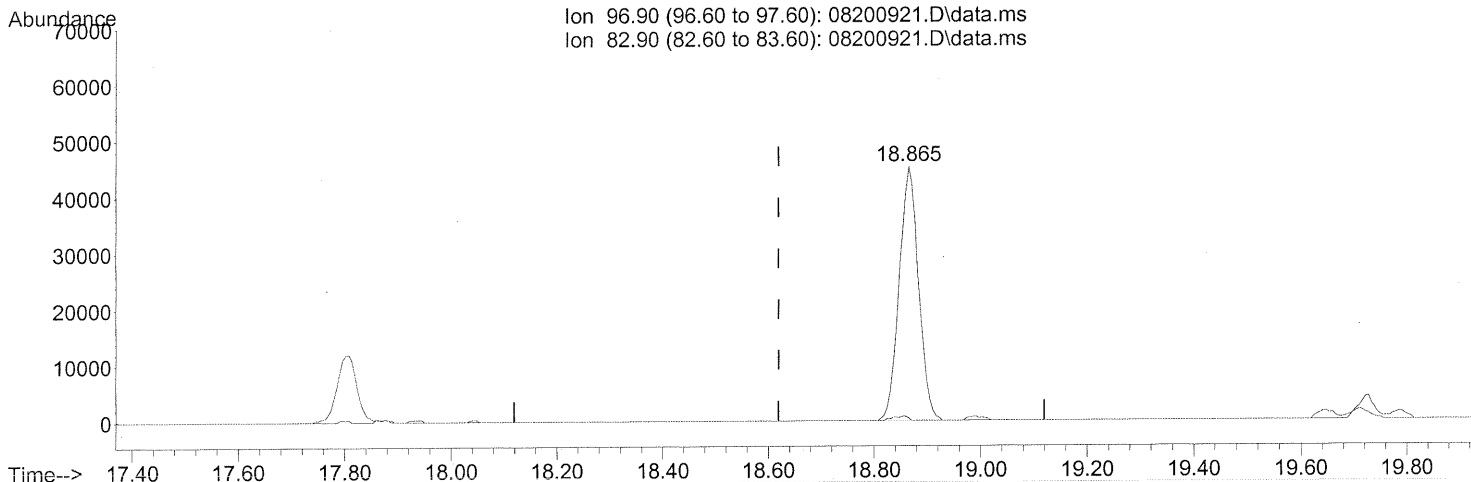
response 9300

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	38.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.82ng

response 113661

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.19#
0.00	0.00	0.00
0.00	0.00	0.00

TP

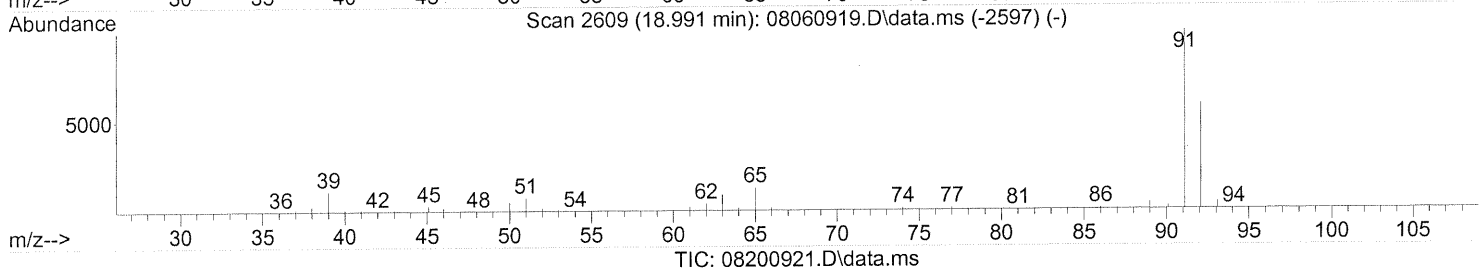
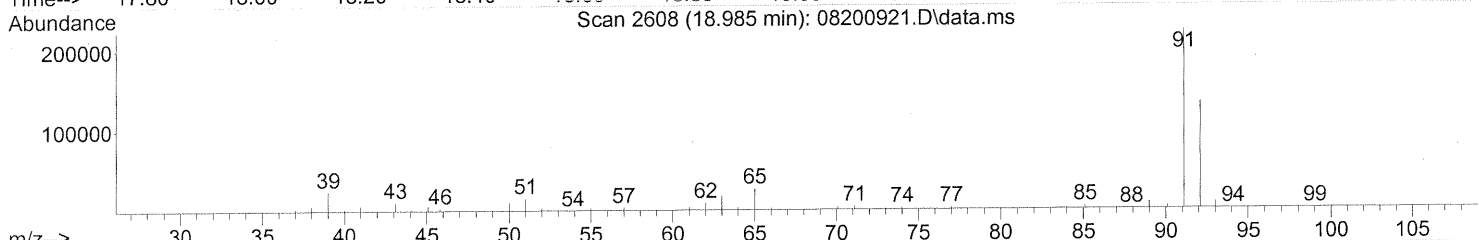
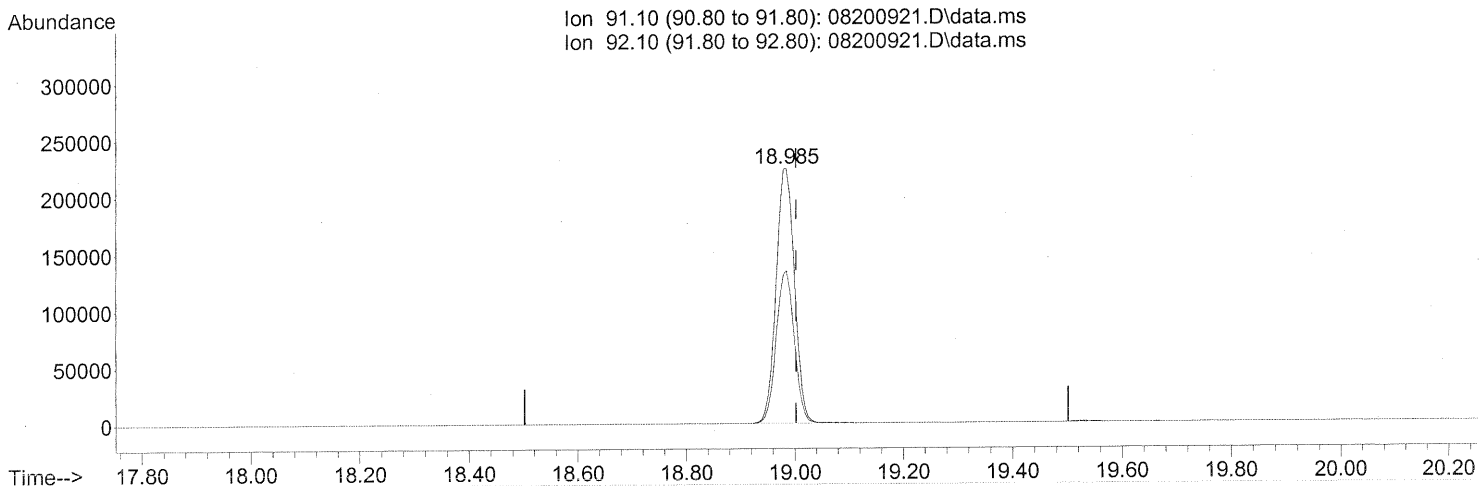
WA 8/22/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 10.51ng

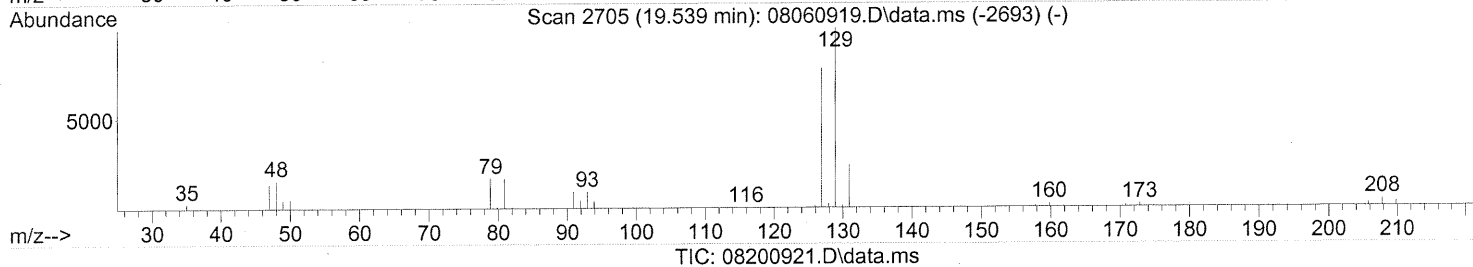
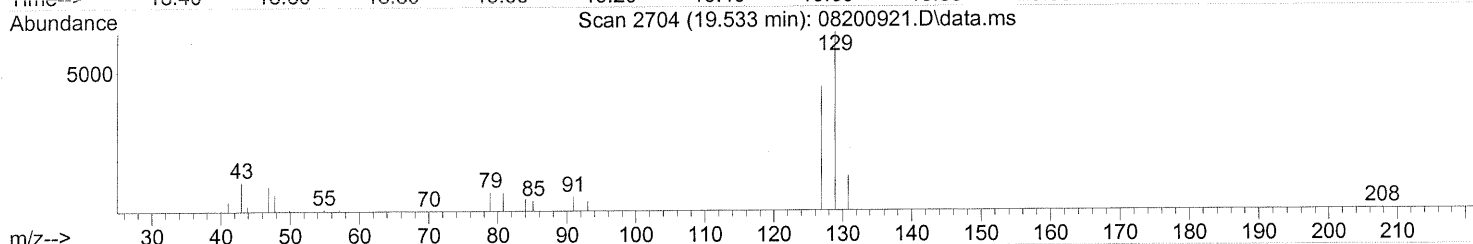
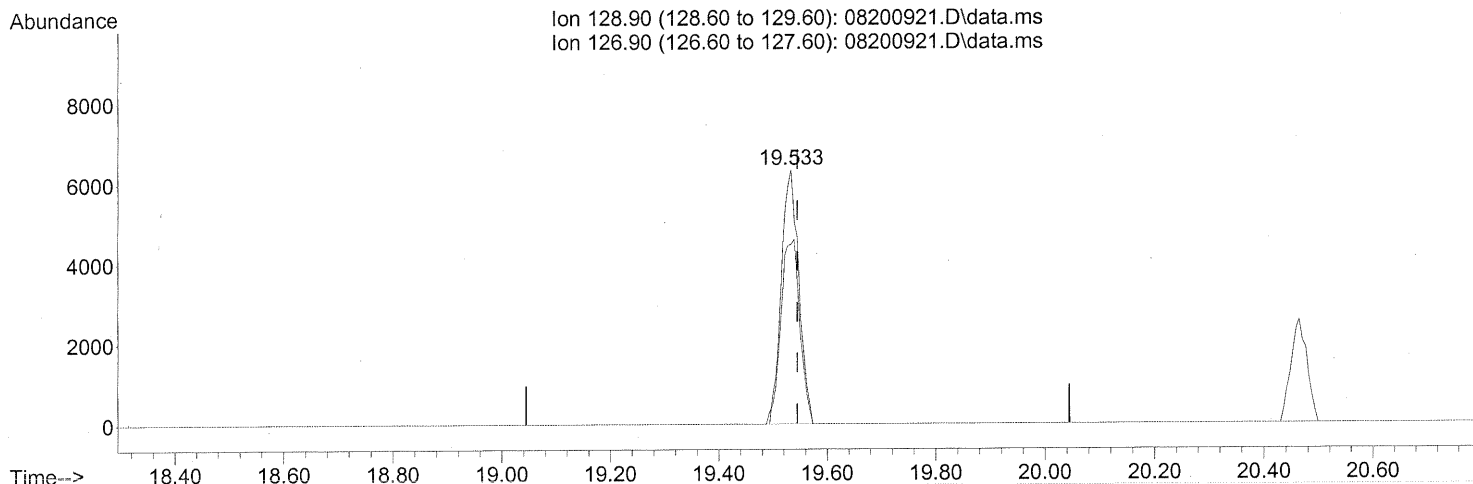
response 525002

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	58.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 1.20ng

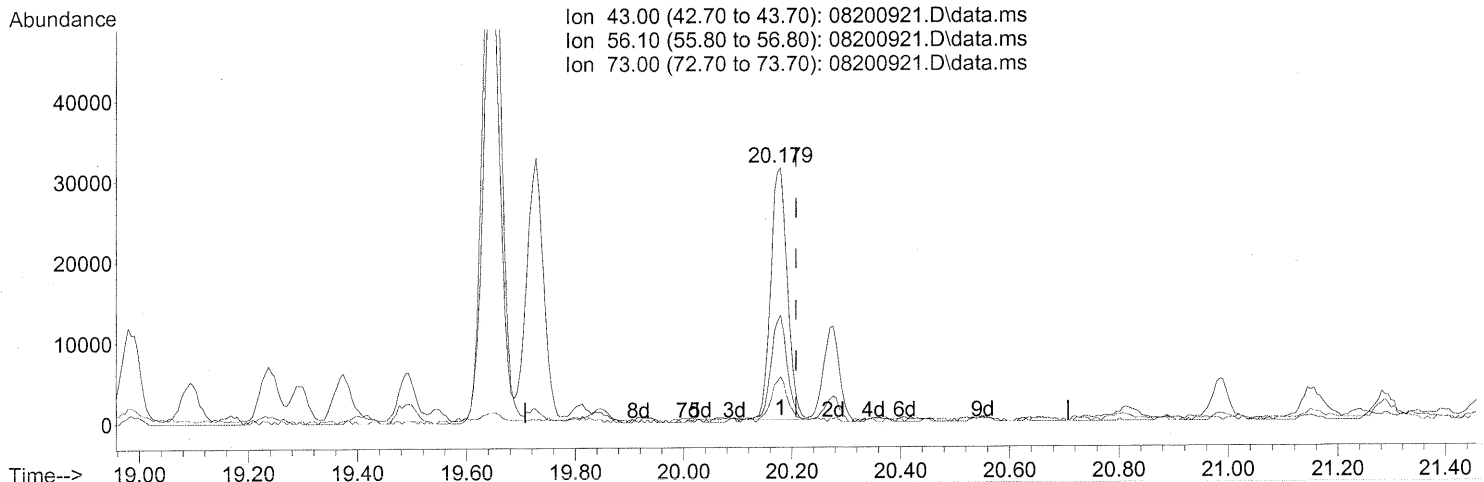
response 14119

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	78.45
0.00	0.00	0.00
0.00	0.00	0.00

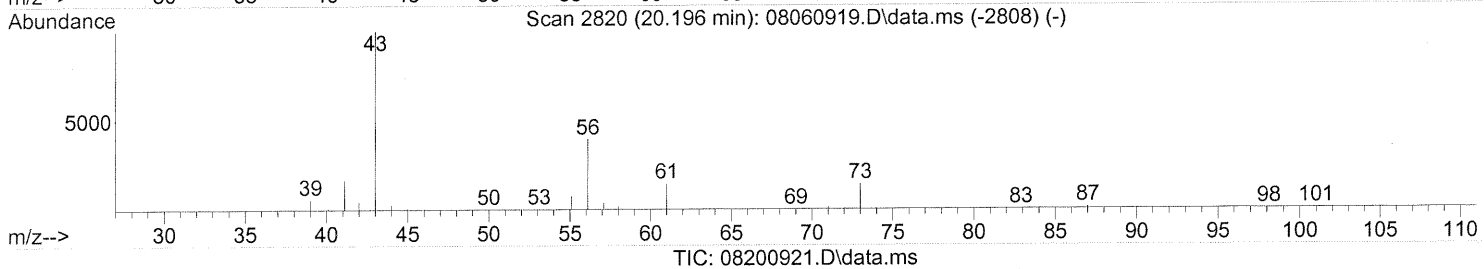
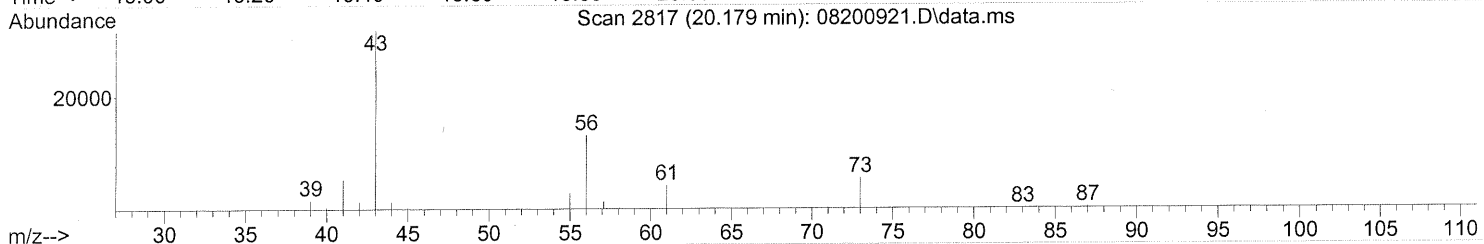
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 08200921.D\data.ms
 Ion 56.10 (55.80 to 56.80): 08200921.D\data.ms
 Ion 73.00 (72.70 to 73.70): 08200921.D\data.ms



(62) n-Butyl Acetate (T)

20.179min (-0.029) 1.70ng

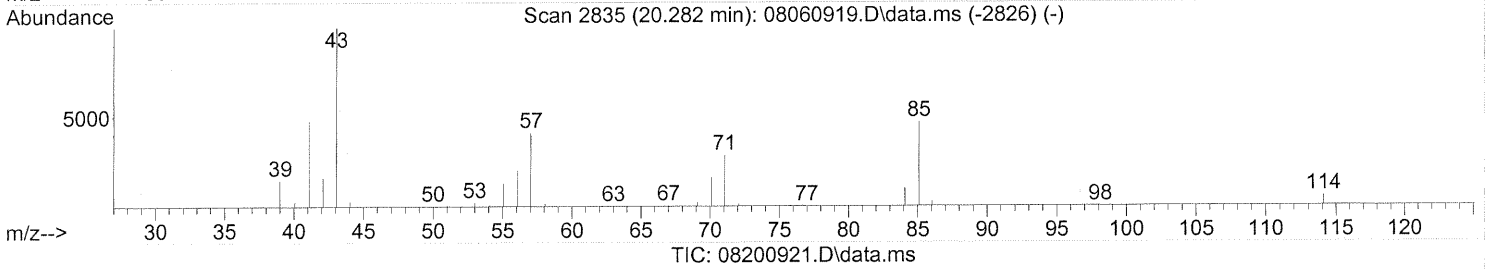
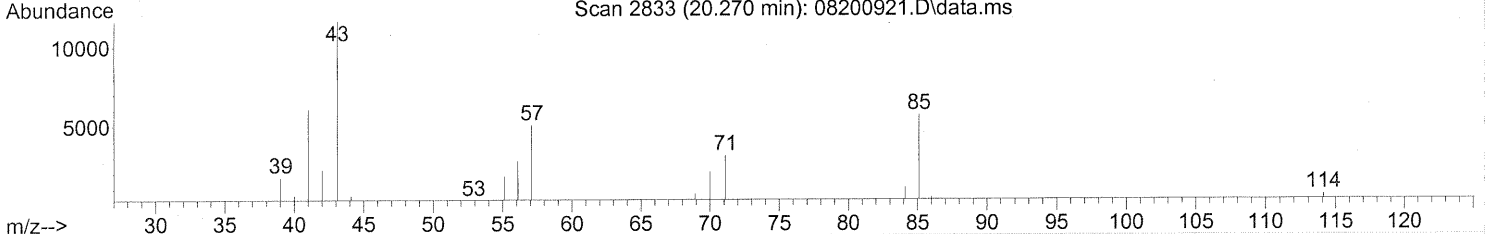
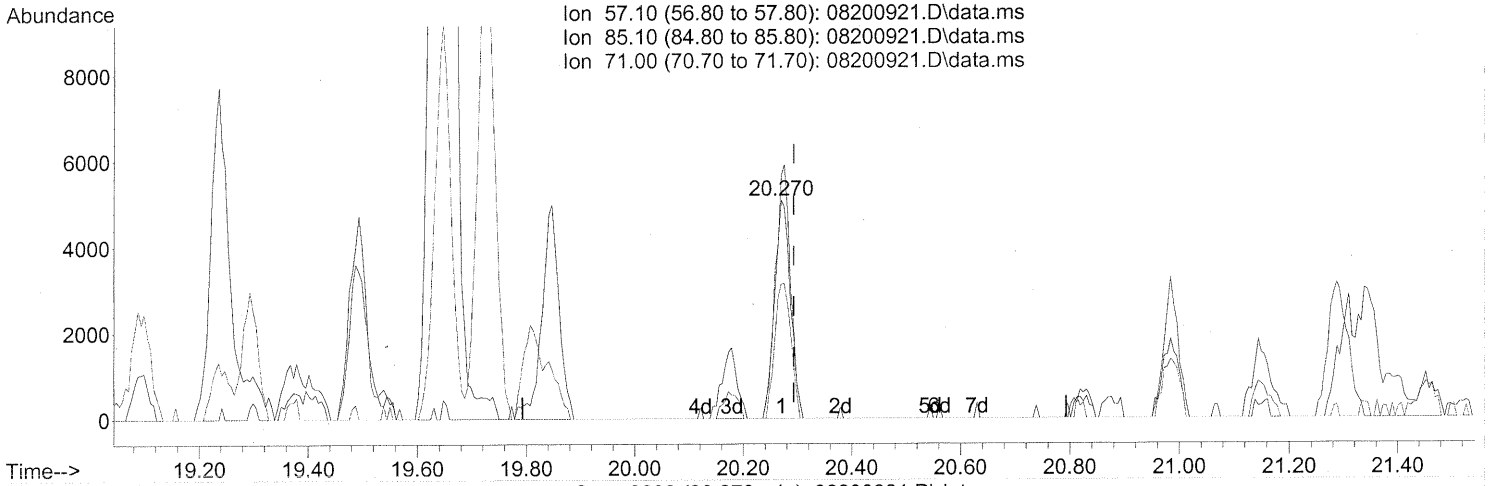
response 66495

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	43.49
73.00	14.80	19.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 0.85ng

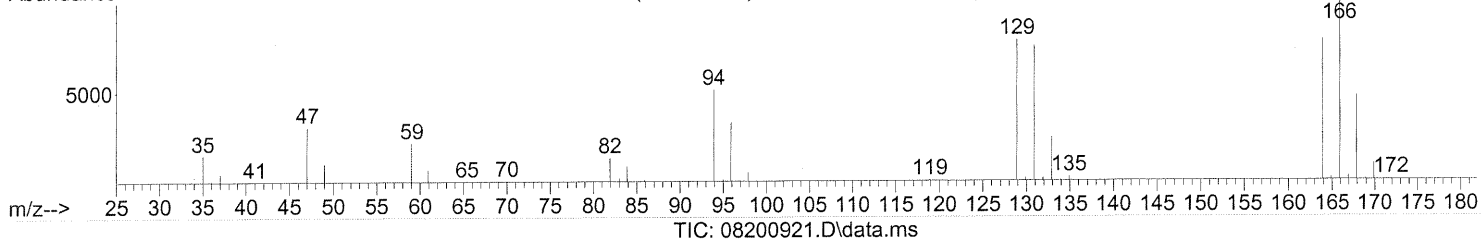
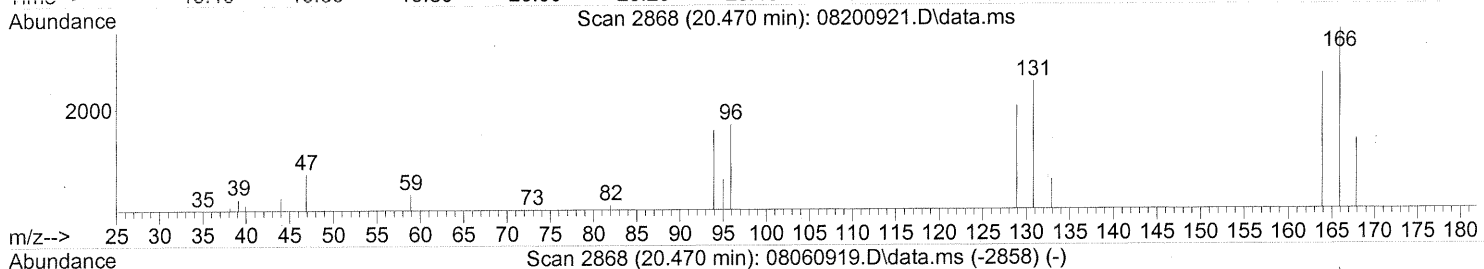
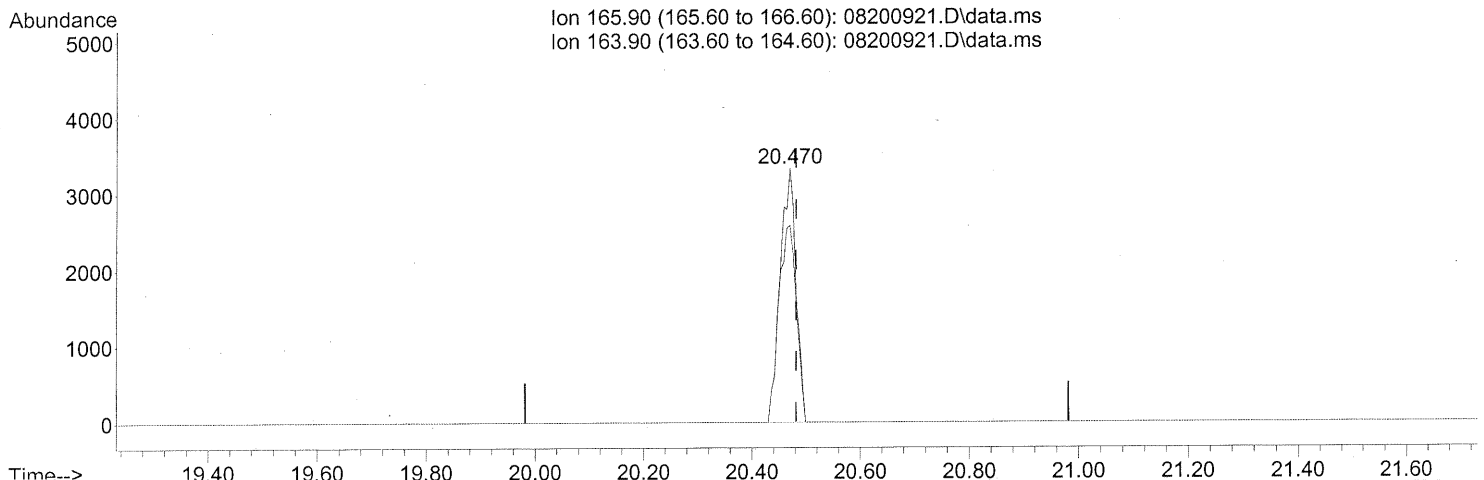
response 10308

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	110.74
71.00	68.10	63.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.58ng

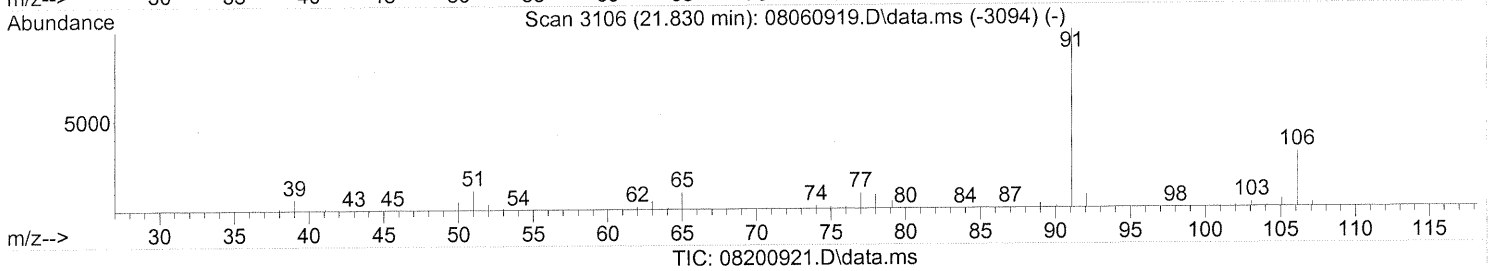
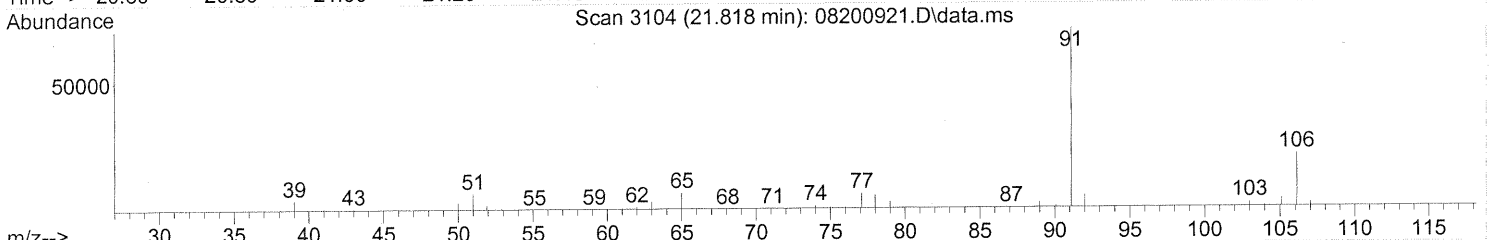
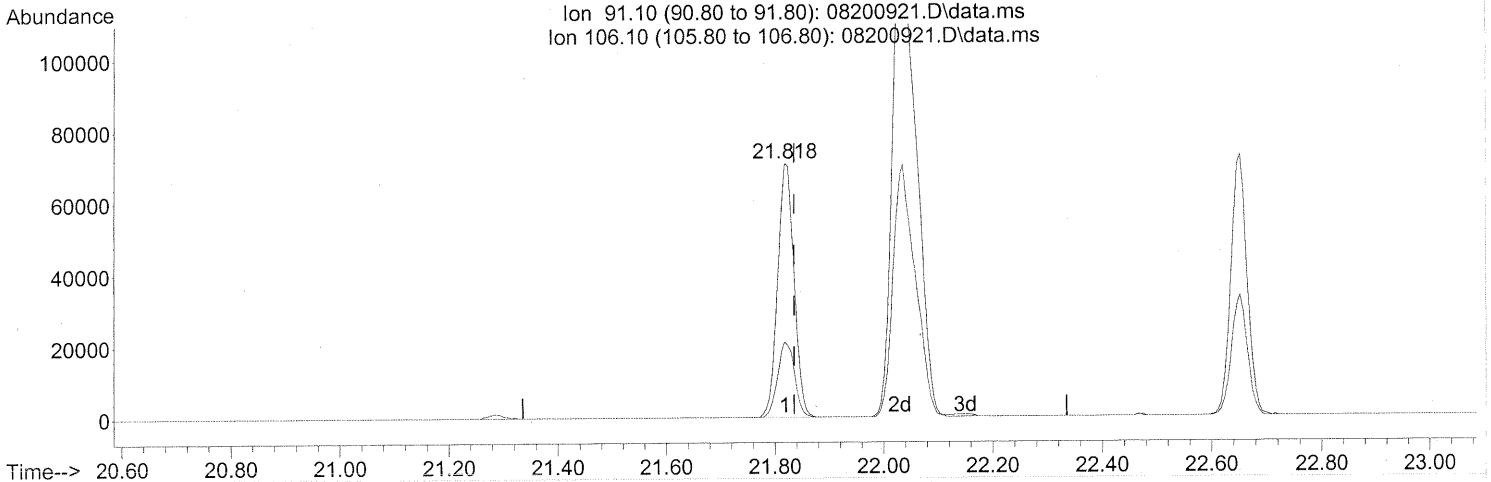
response 6754

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	85.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



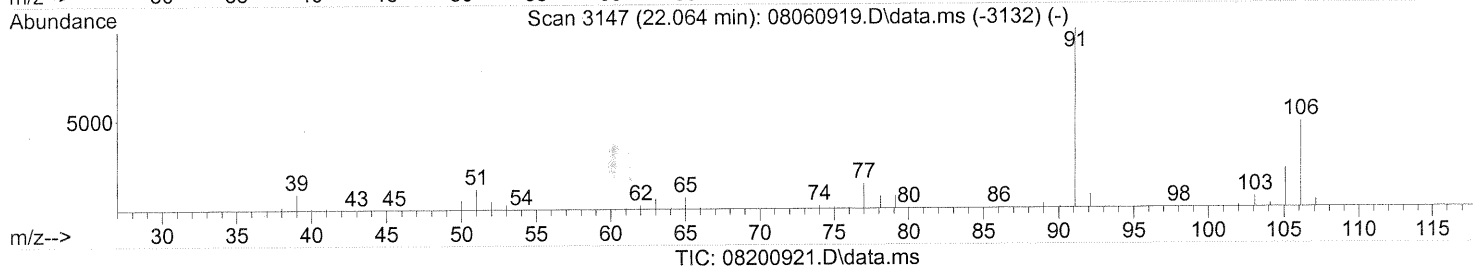
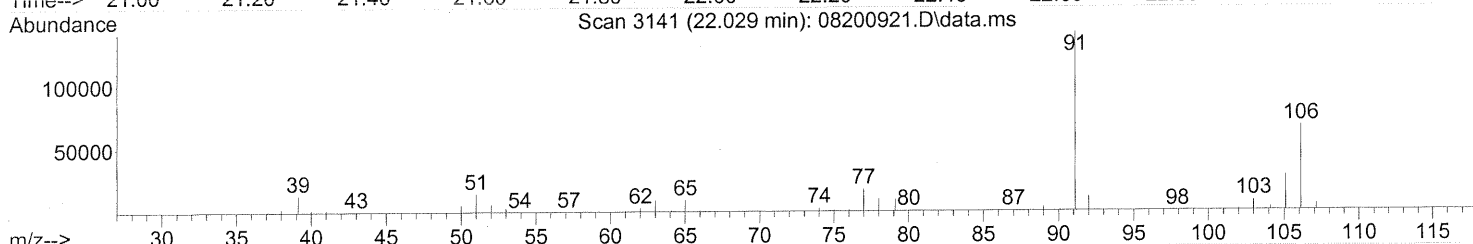
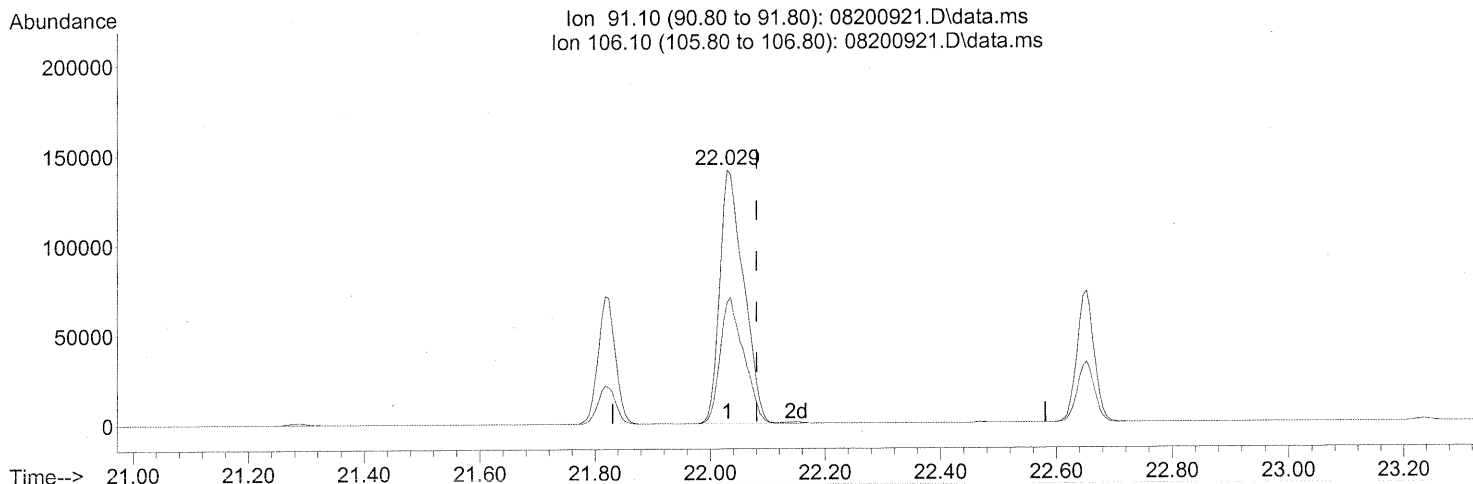
(66) Ethylbenzene (T)
 21.818min (-0.017) 2.59ng
 response 147708

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.029min (-0.051) 8.85ng

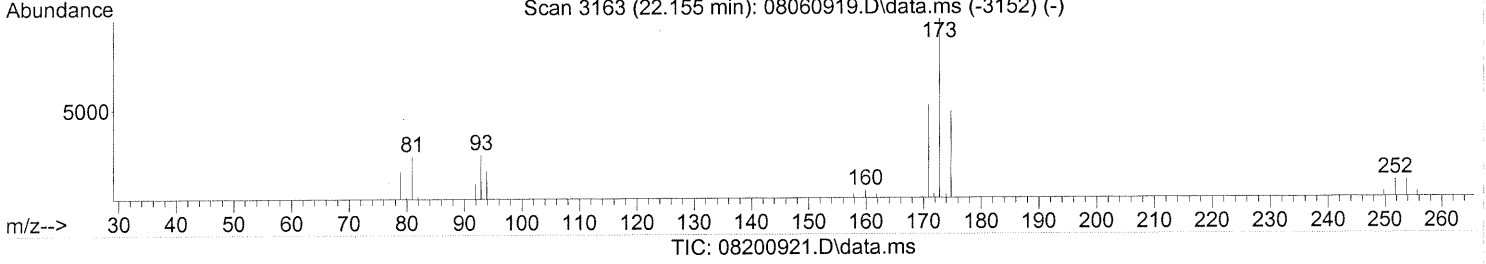
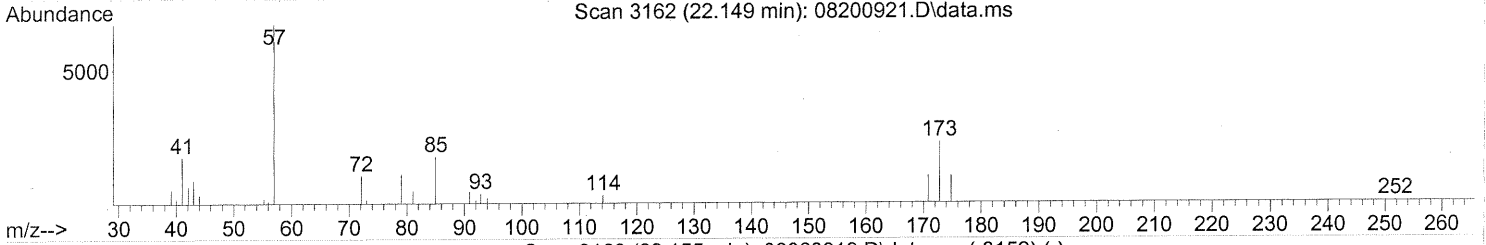
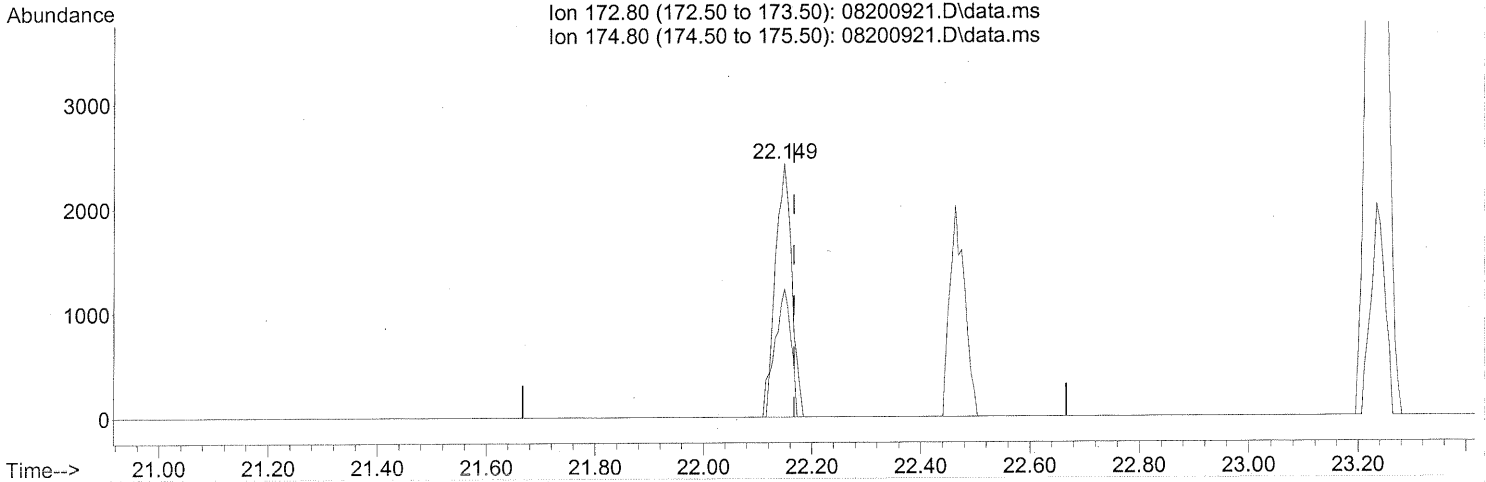
response 408762

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



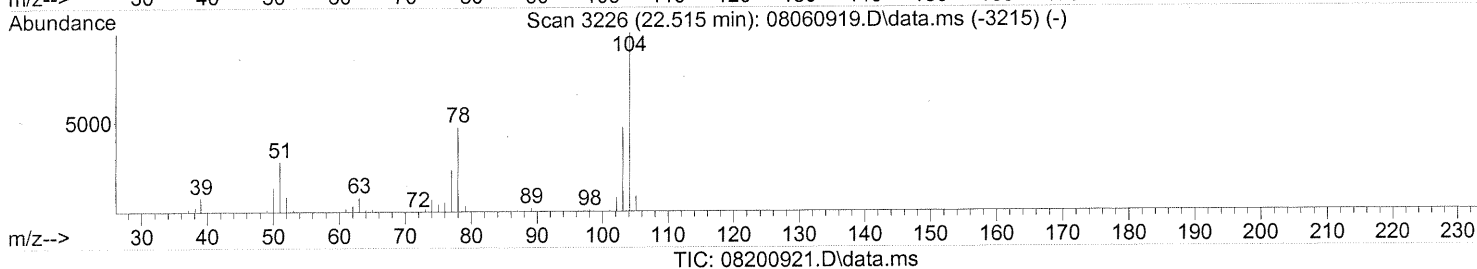
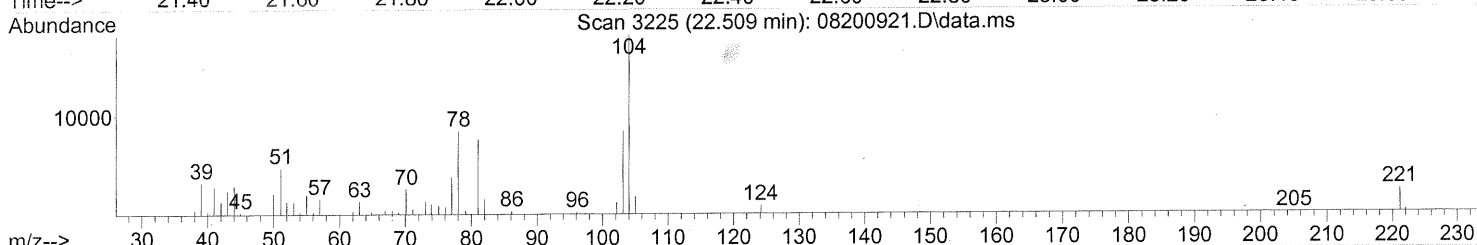
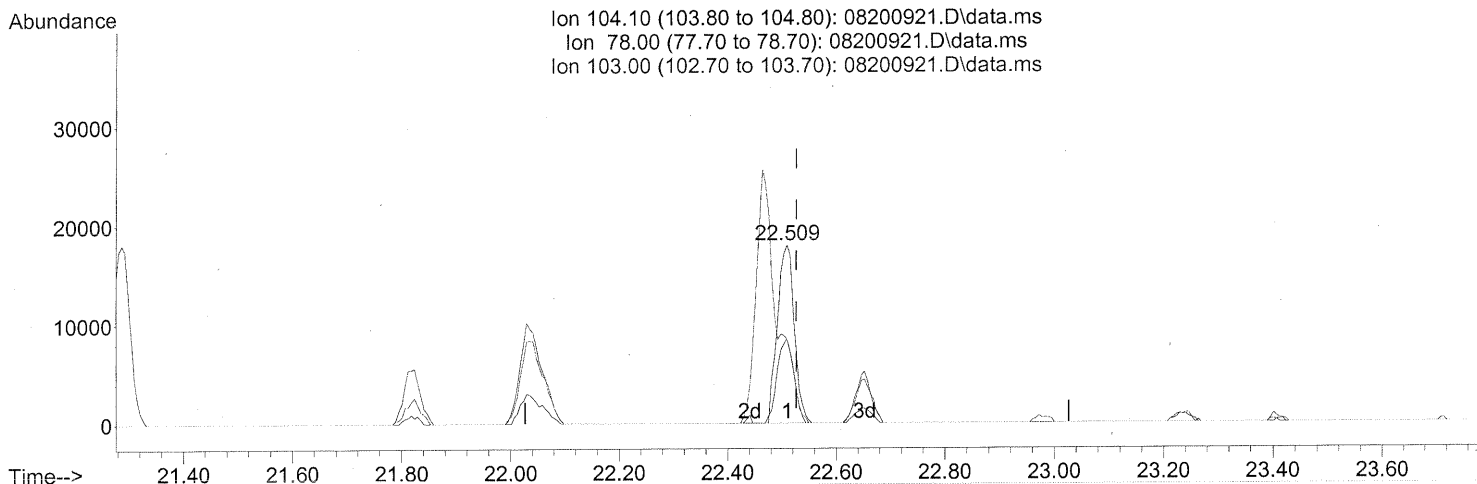
(68) Bromoform (T)
 22.149min (-0.017) 0.52ng
 response 5110

Ion	Exp%	Act%
172.80	100	100
174.80	47.90	47.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 1.16ng

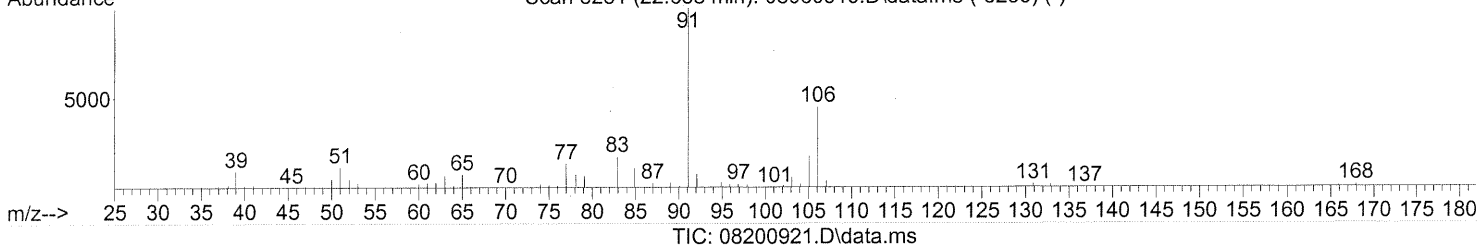
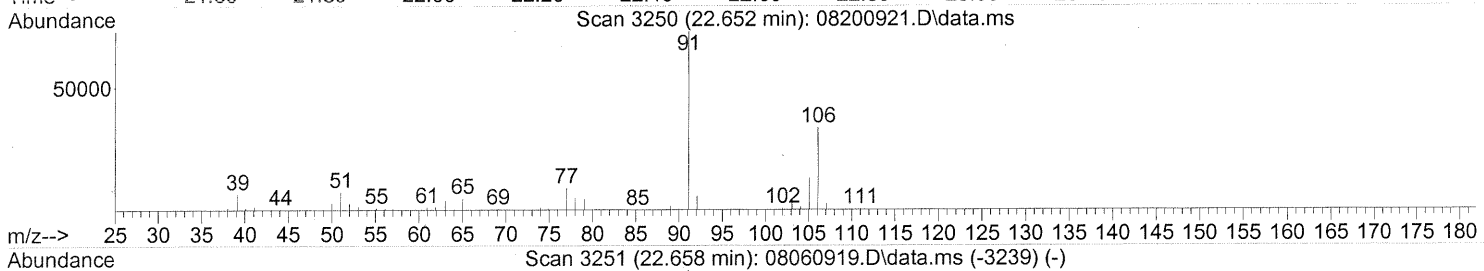
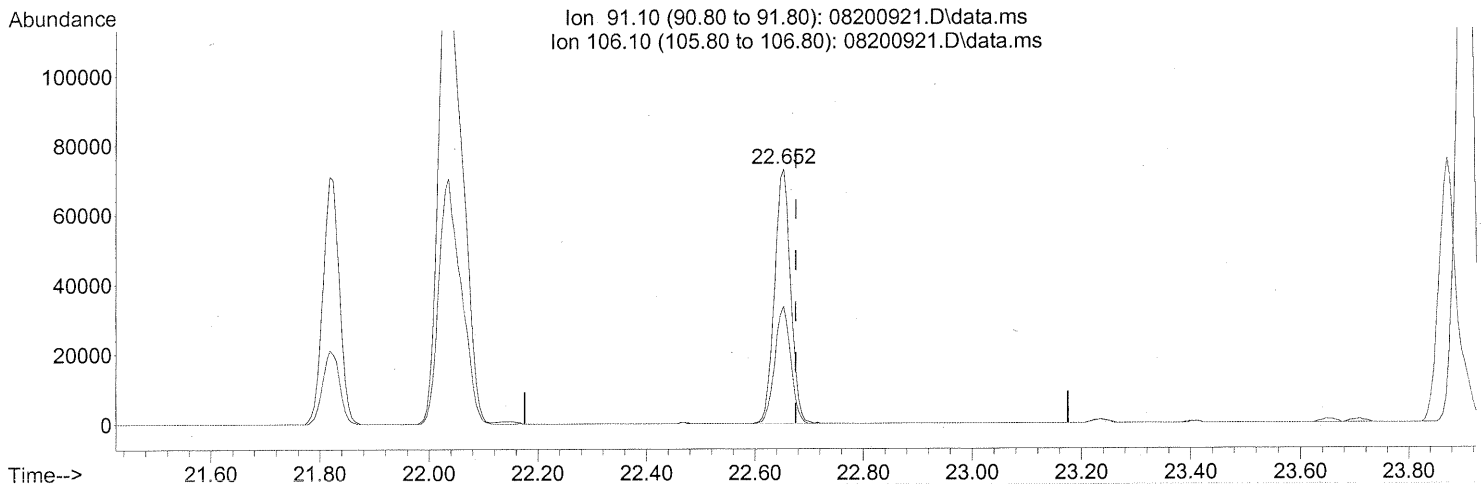
response 38727

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.49
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200921.D
Acq On : 21 Aug 2009 00:01
Operator : WA
Sample : P0902805-004 (500mL)
Misc : Environmental Health 101398
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



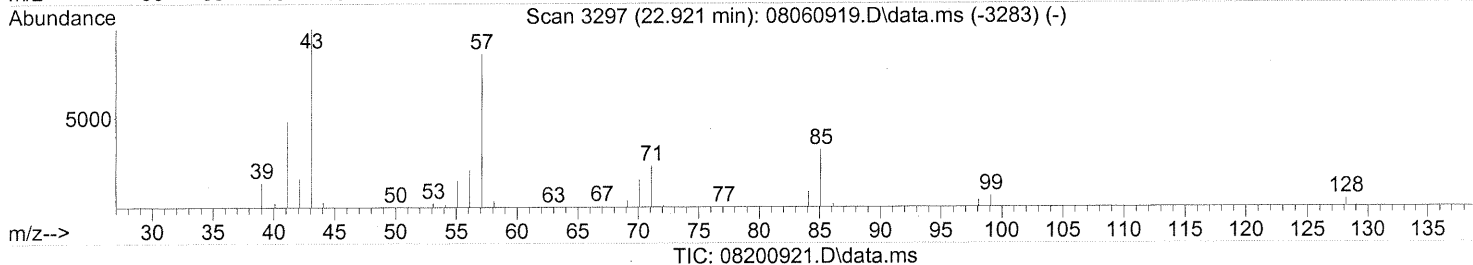
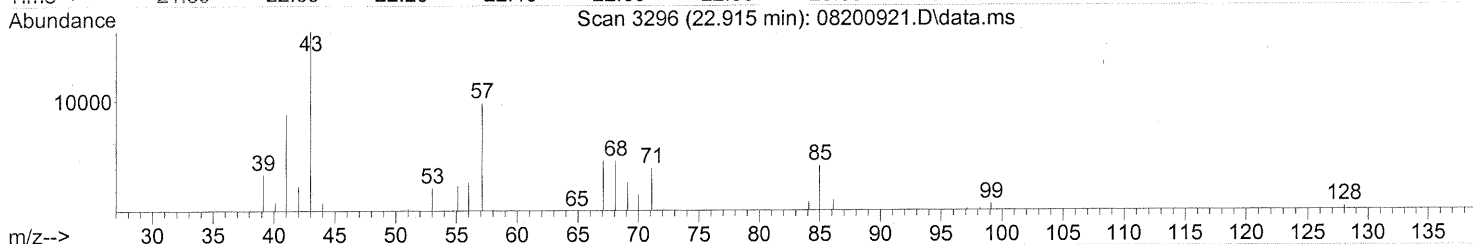
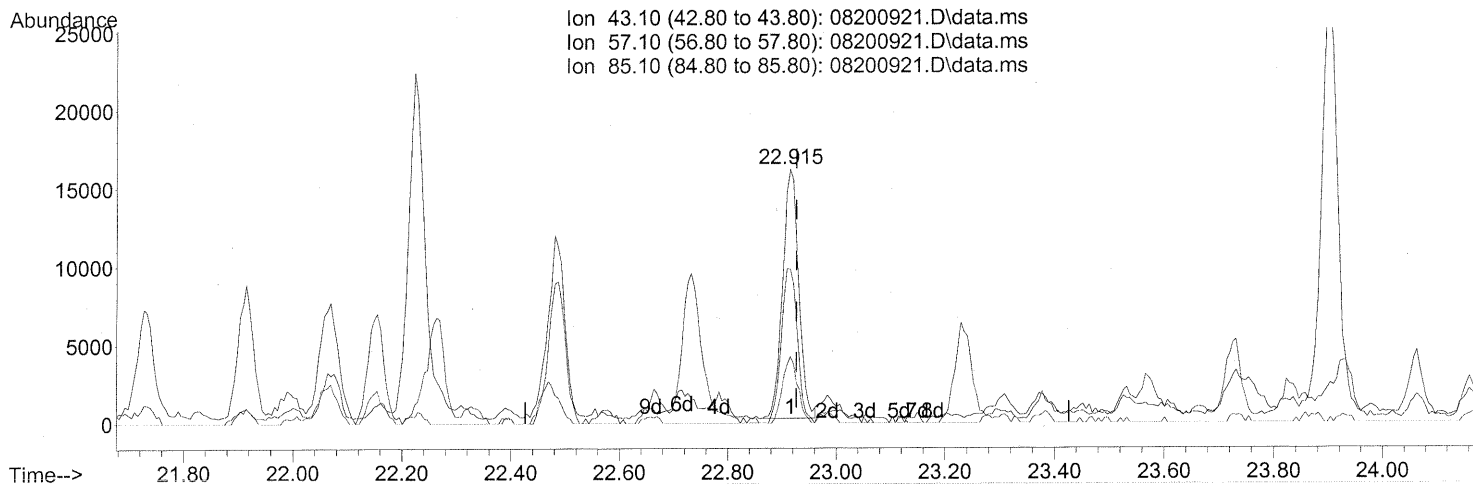
(70) o-Xylene (T)
22.652min (-0.023) 3.24ng
response 150059

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



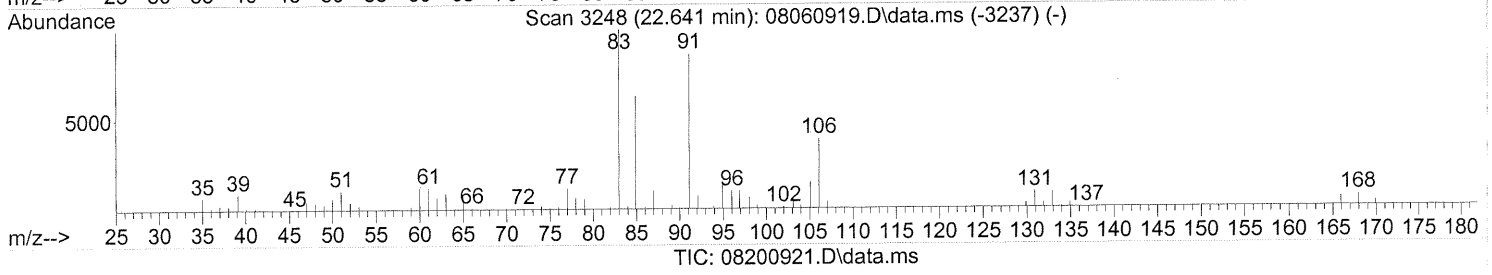
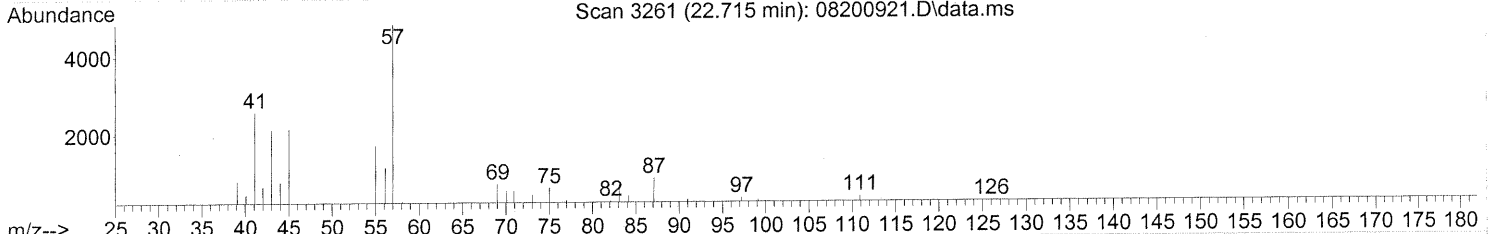
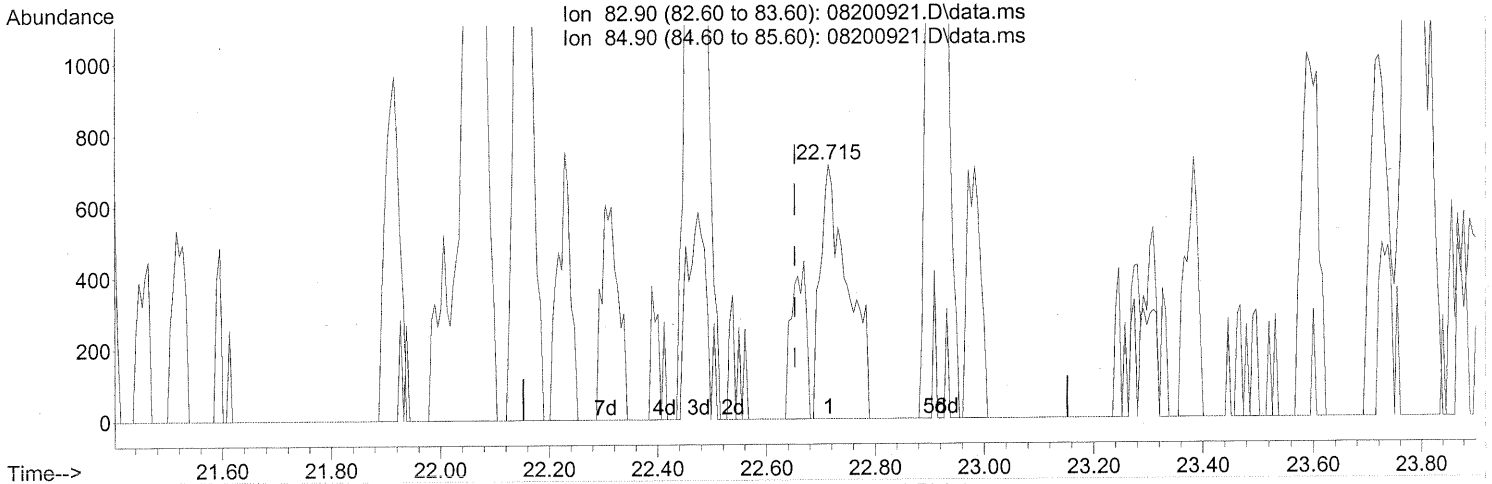
(71) n-Nonane (T)
 22.915min (-0.011) 1.06ng
 response 32662

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	61.94#
85.10	30.40	25.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.715min (+0.063) 0.12ng

response 2507

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

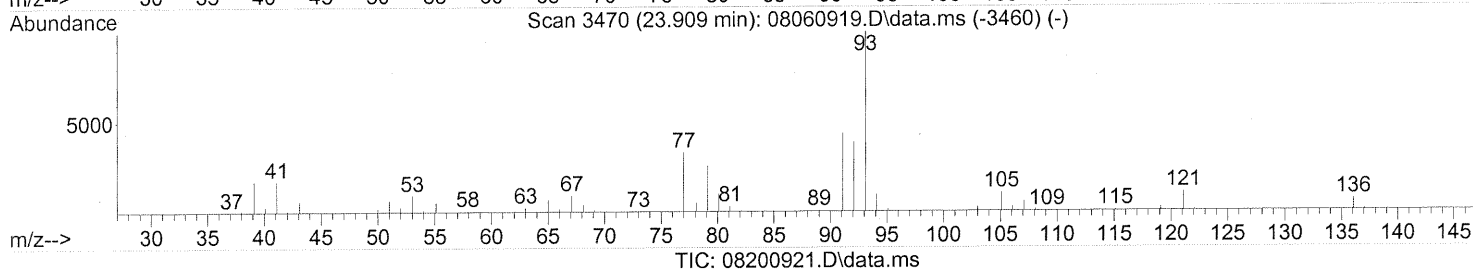
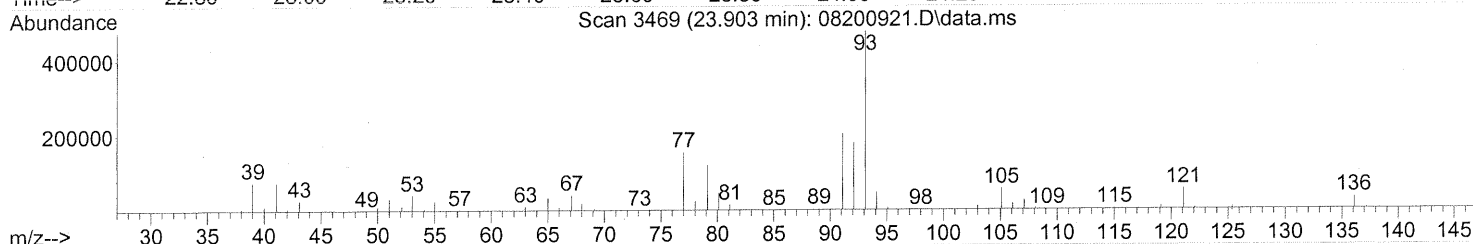
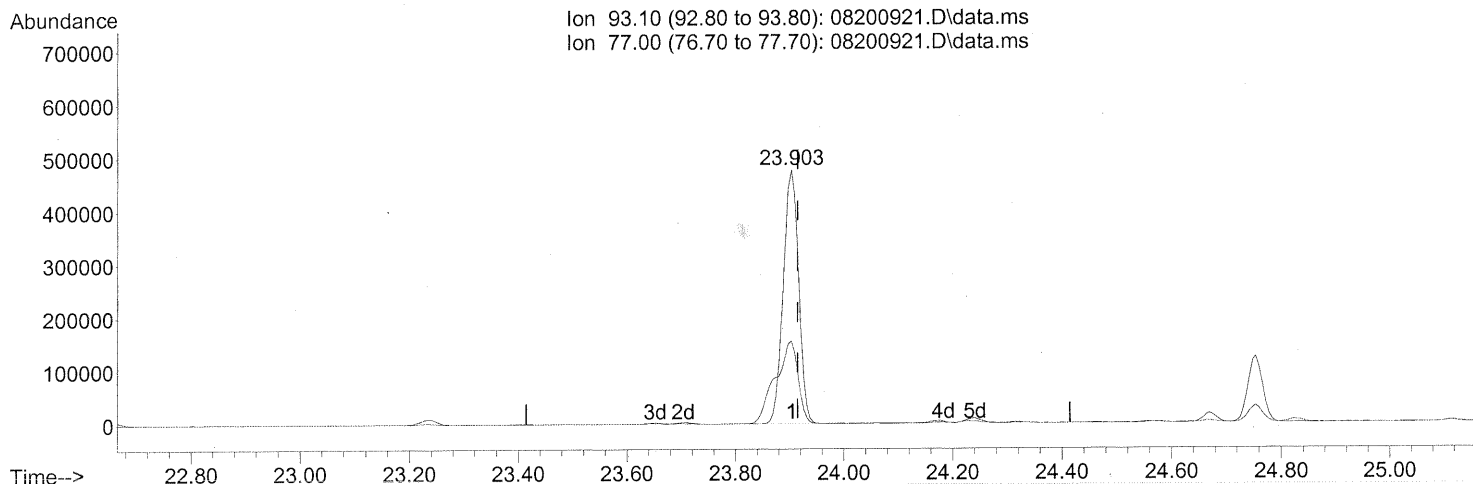
WA 8/22/09

R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.011) 31.22ng

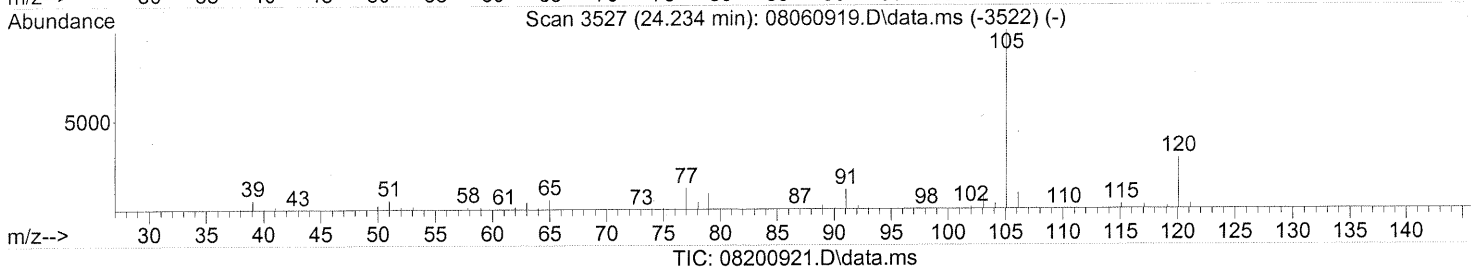
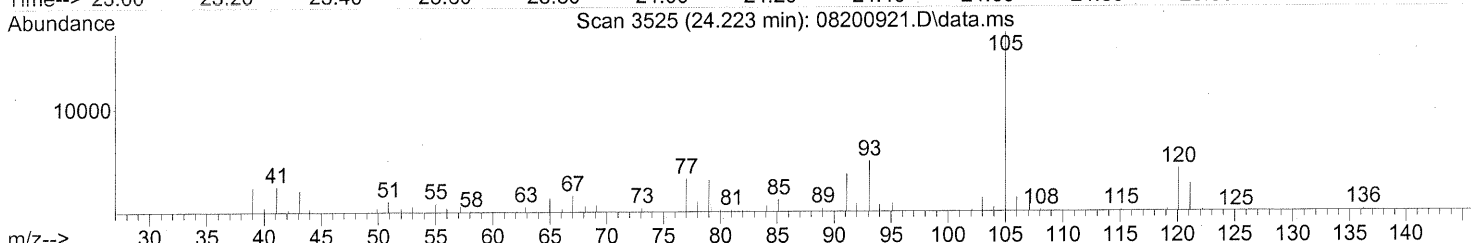
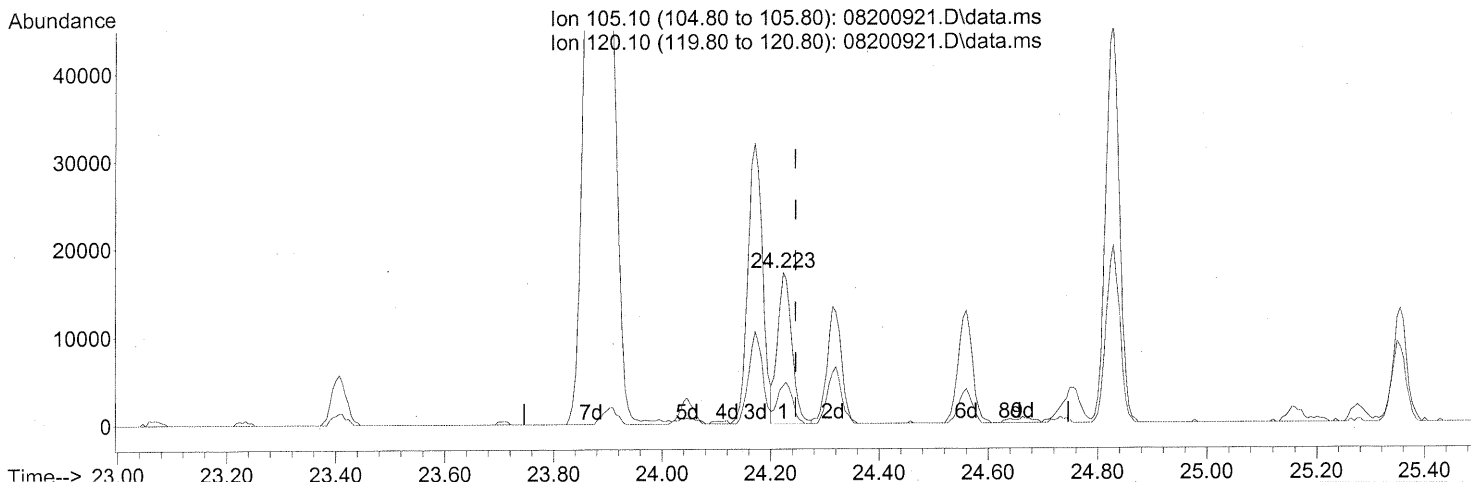
response 935849

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	48.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



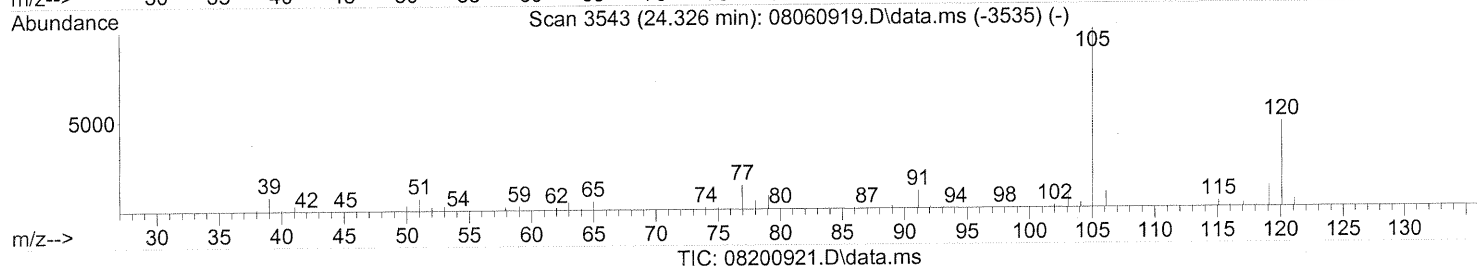
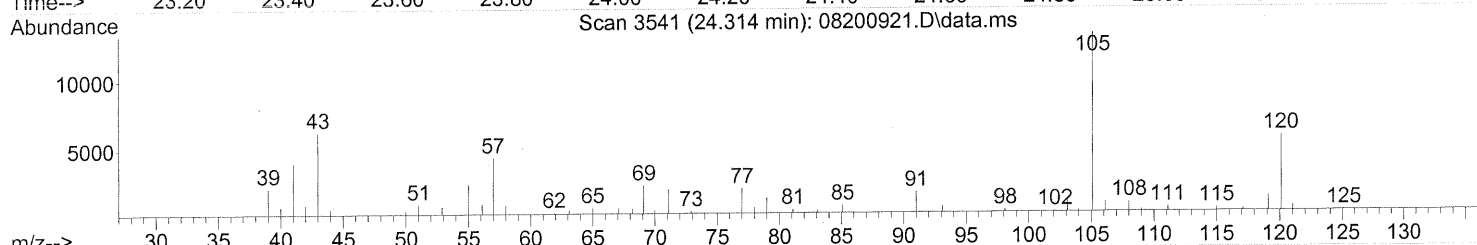
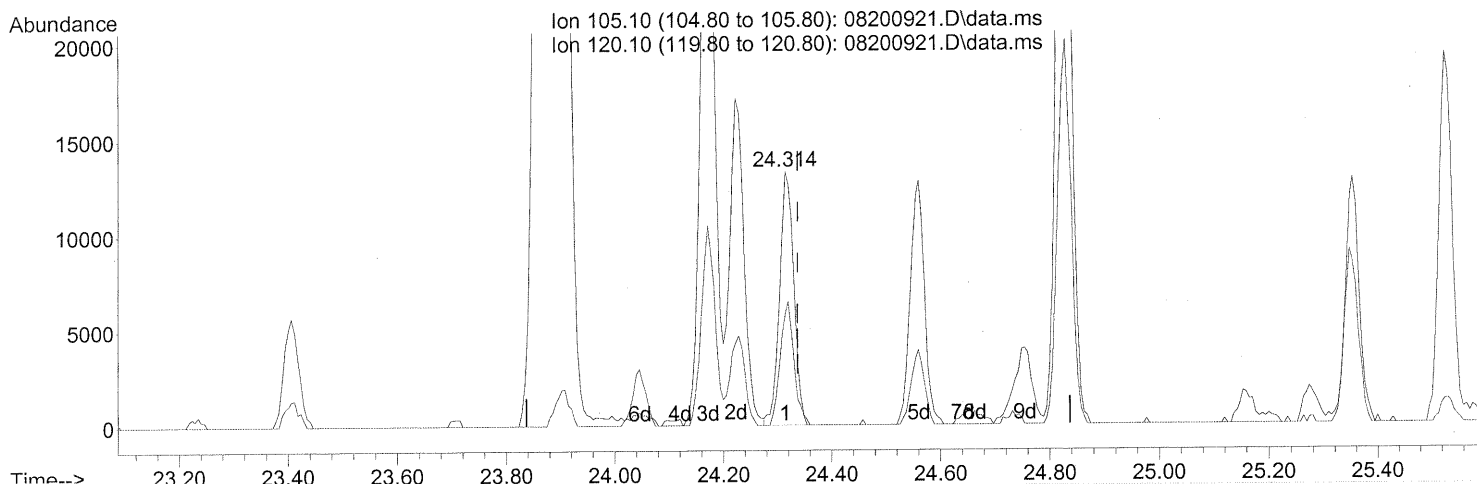
(78) 4-Ethyltoluene (T)
 24.223min (-0.023) 0.58ng
 response 31266

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.314min (-0.023) 0.53ng

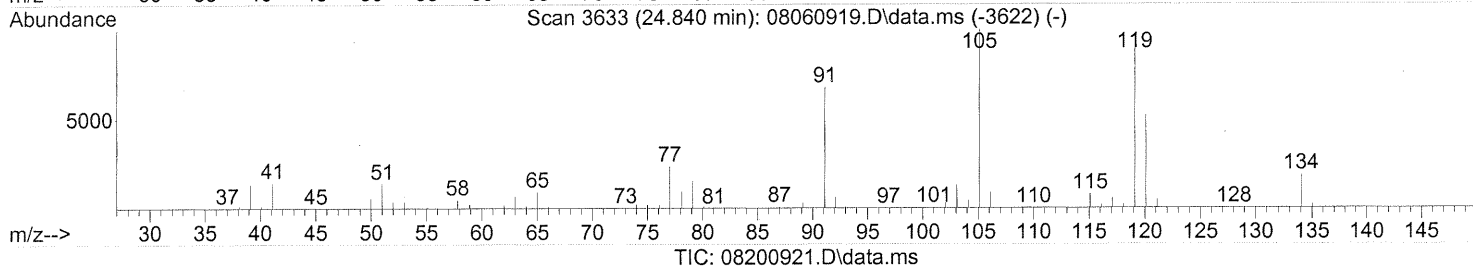
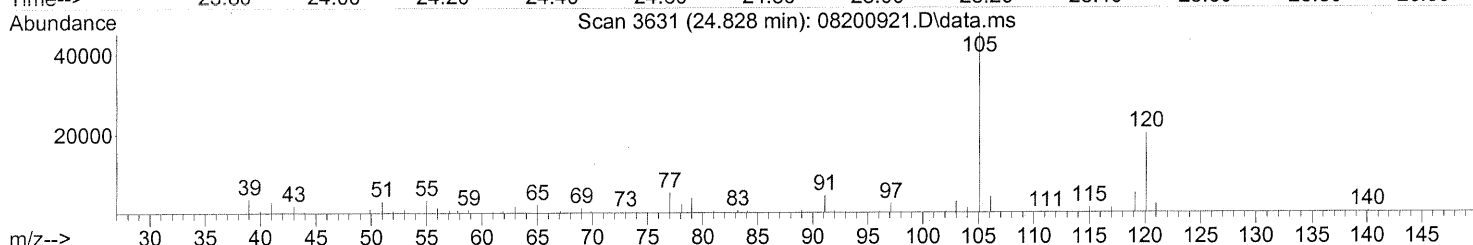
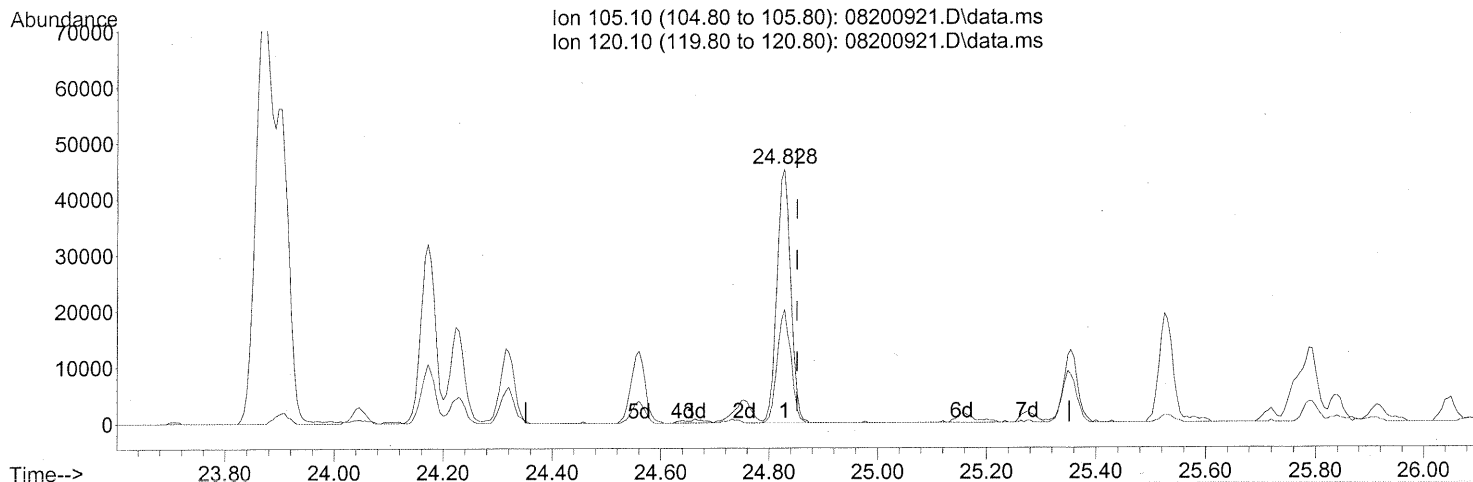
response 24255

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	45.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 1.72ng

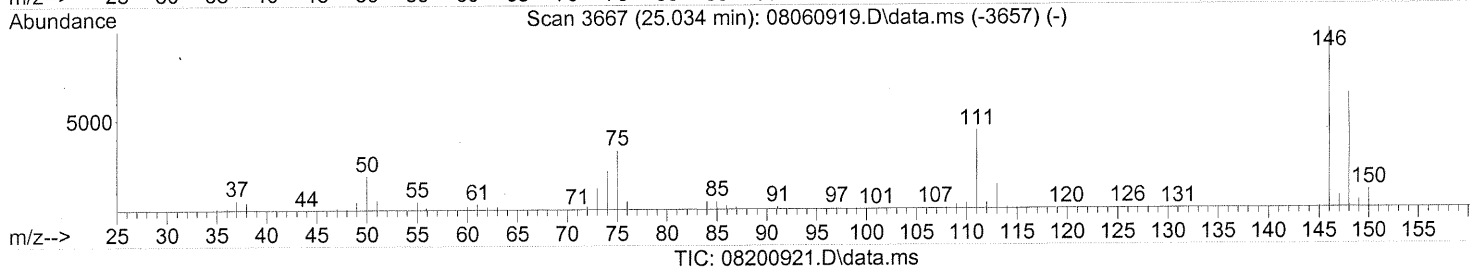
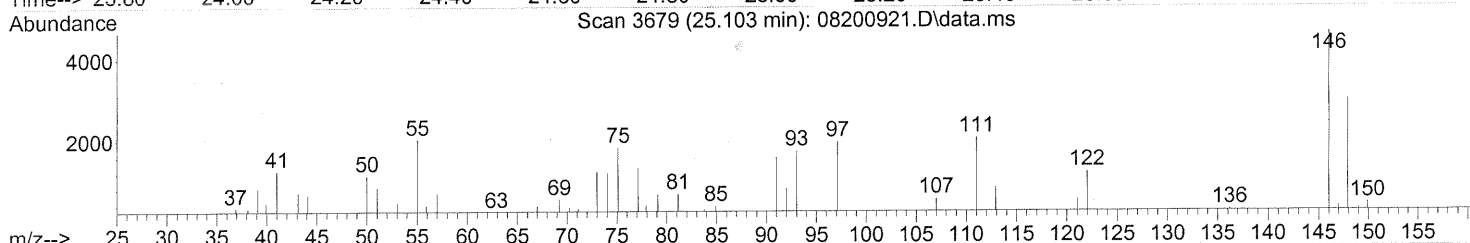
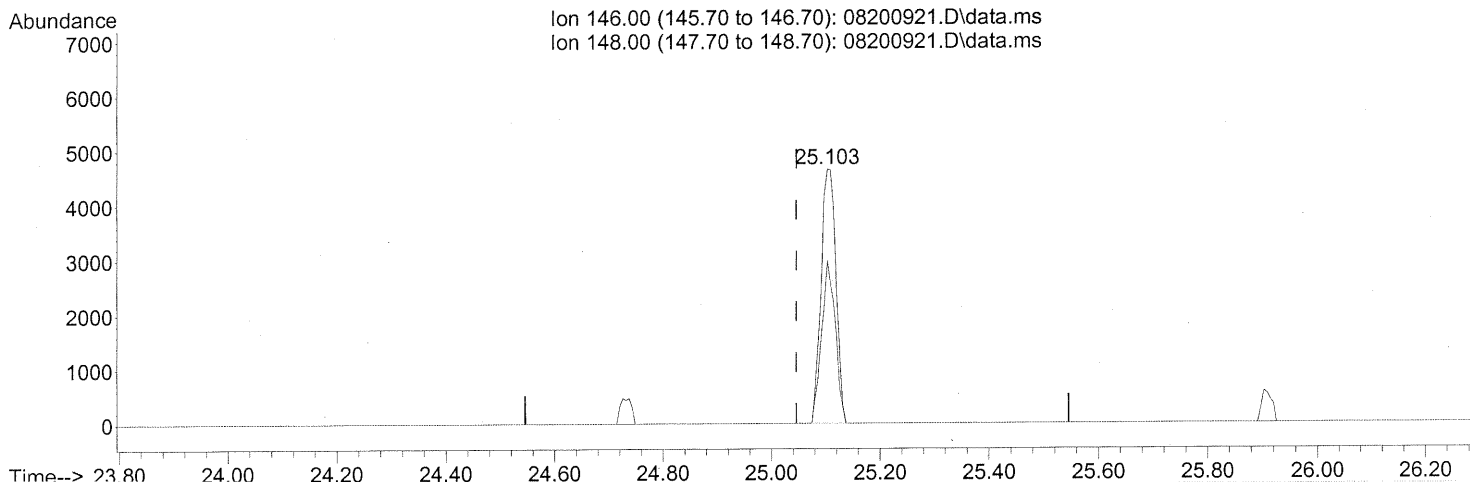
response 79921

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.37ng

response 8832

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	58.99
0.00	0.00	0.00
0.00	0.00	0.00

TP

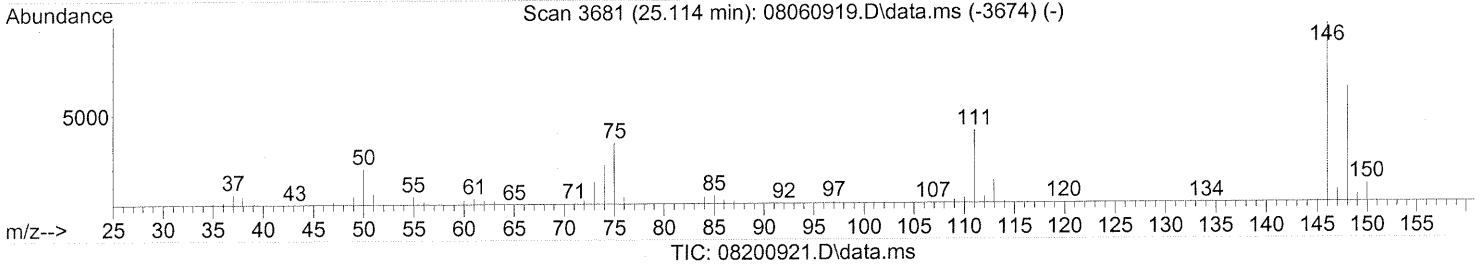
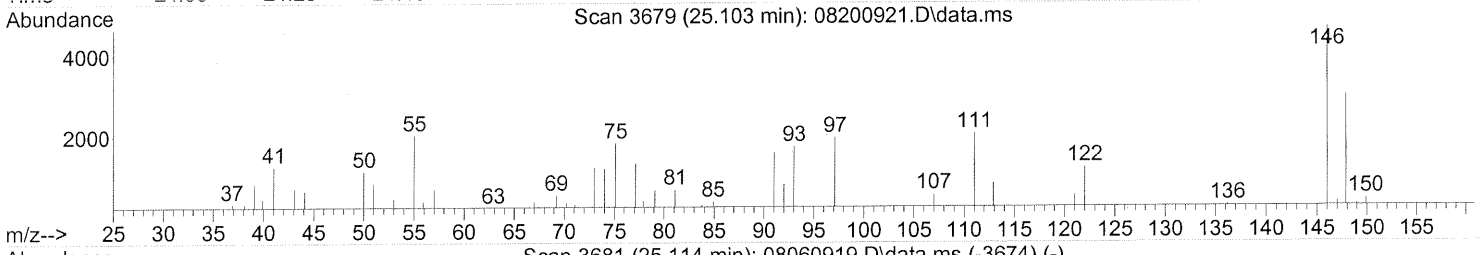
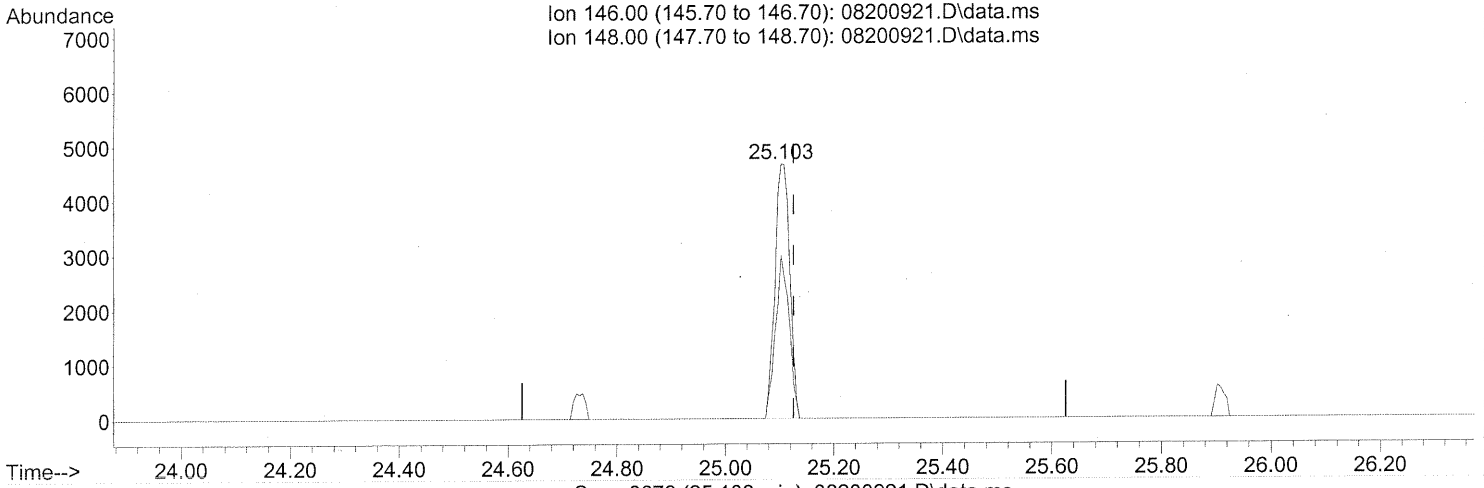
RM 8/22/09

A 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.35ng

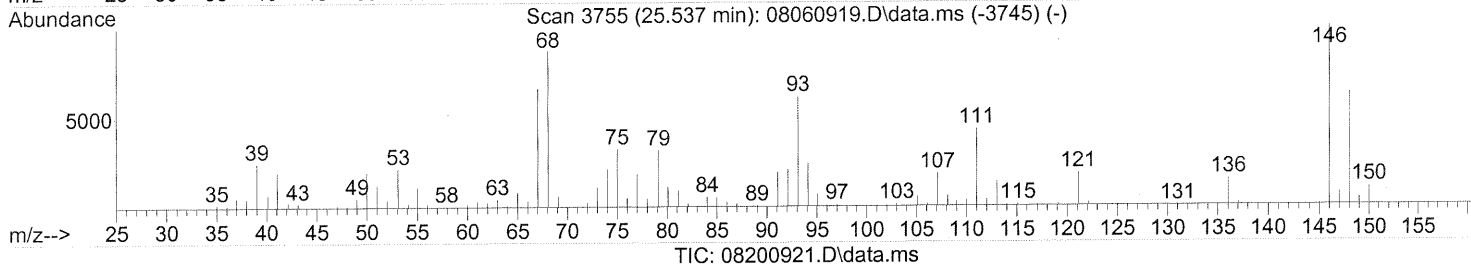
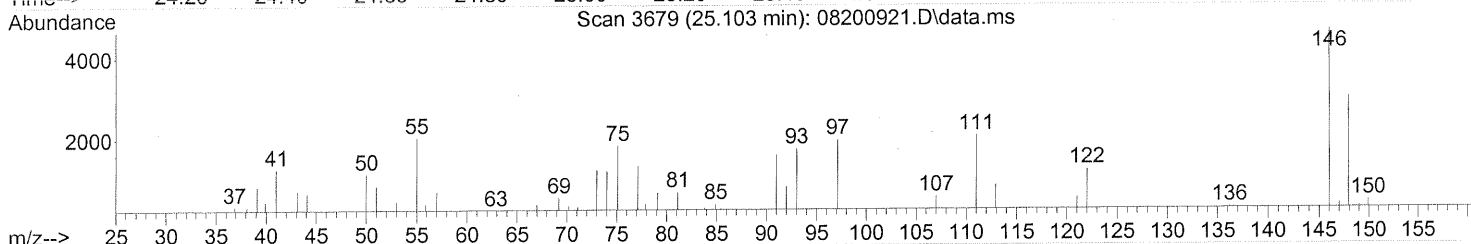
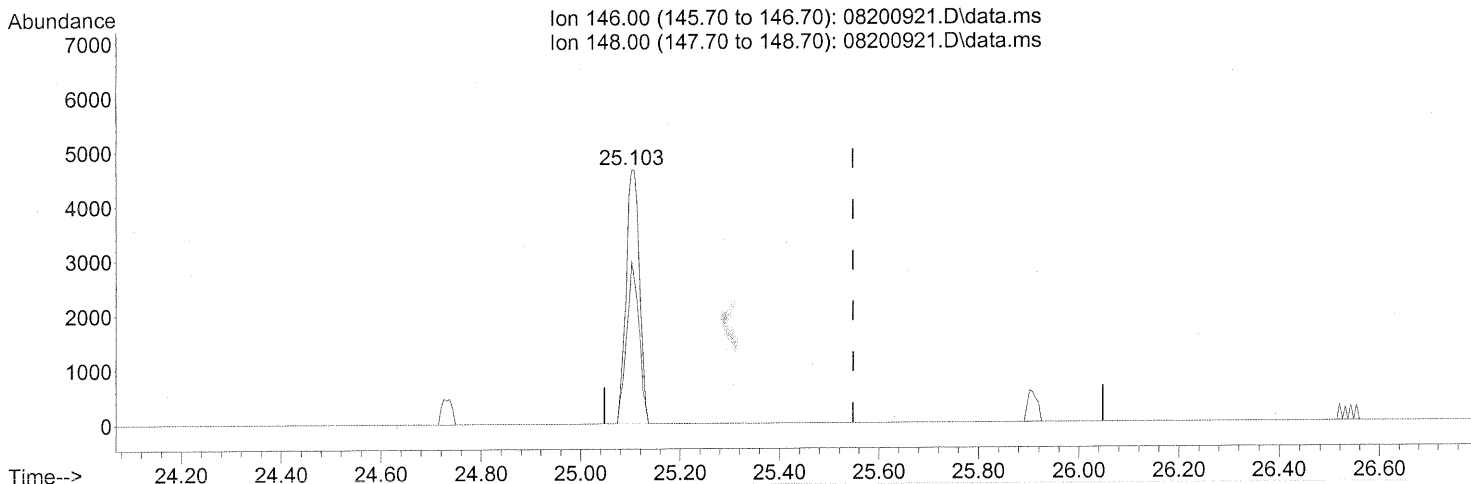
response 8832

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	58.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.103min (-0.446) 0.40ng

response 8832

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	58.99
0.00	0.00	0.00
0.00	0.00	0.00

FP

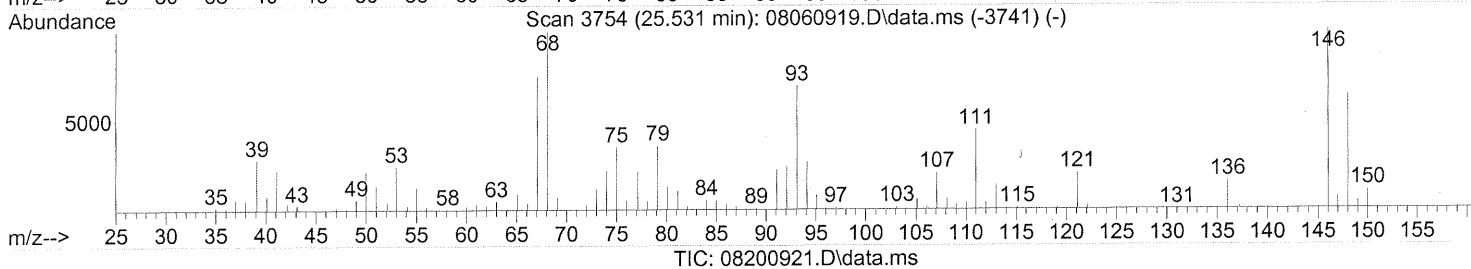
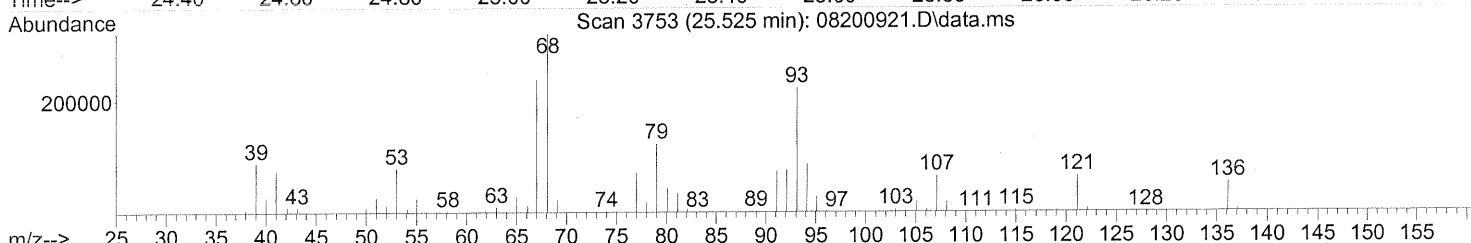
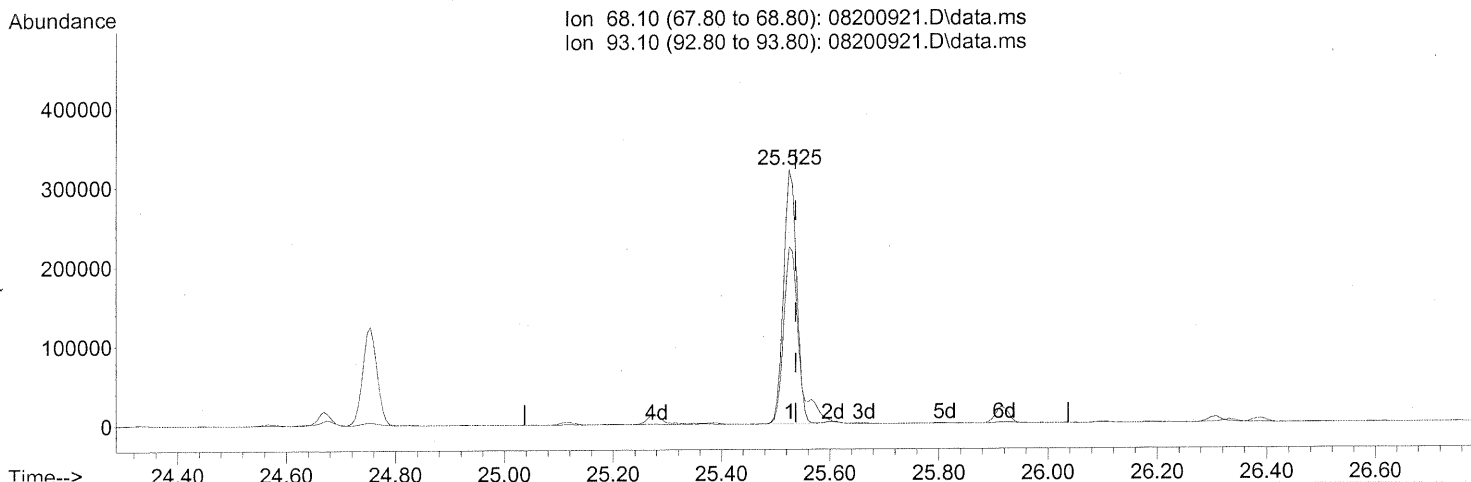
WA 8/22/09

[Signature] 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200921.D
 Acq On : 21 Aug 2009 00:01
 Operator : WA
 Sample : P0902805-004 (500mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 06:26:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

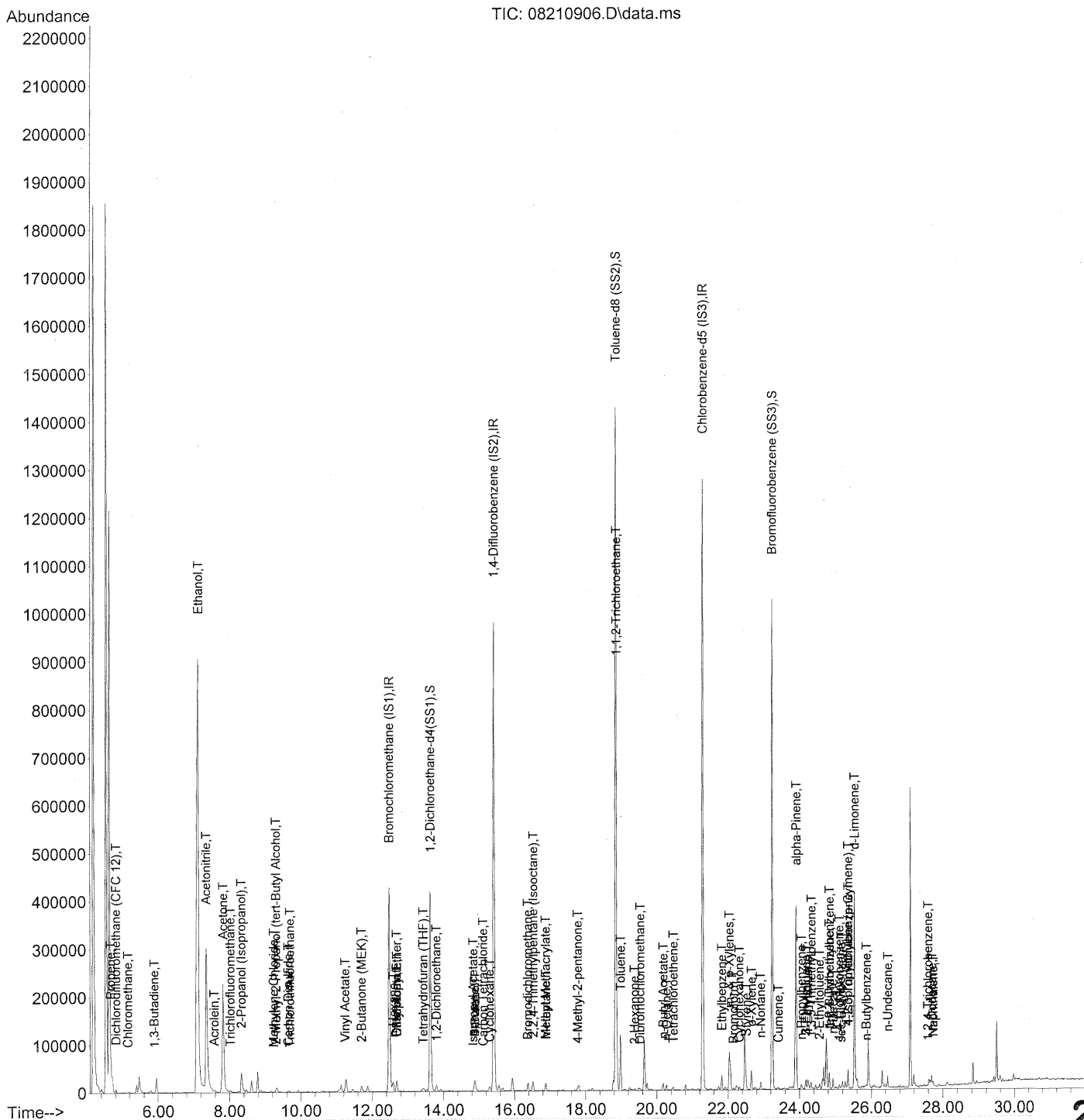


(91) d-Limonene (T)
 25.525min (-0.011) 27.01ng
 response 535041

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	82.77
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210906.D
 Acq On : 21 Aug 2009 11:16
 Operator : WA
 Sample : P0902805-004 dil (100mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 15:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210906.D
 Acq On : 21 Aug 2009 11:16
 Operator : WA
 Sample : P0902805-004 dil (100mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 15:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	224644	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1132689	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.29	82	539092	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.63	65	436136	22.337	ng	-0.03	89.36%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.85	98	1224066	25.986	ng	-0.02	103.96%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.23	174	338182	27.224	ng	-0.01	108.88%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	8631	0.560	ng	# 83
3) Dichlorodifluoromethan...	4.82	85	6744	0.268	ng	# 95
4) Chloromethane	5.15	50	4716	0.279	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	182	N.D.		
6) Vinyl Chloride	5.62	62	88	N.D.		
7) 1,3-Butadiene	5.89	54	595	0.051	ng	# 13
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	2061681	210.990	ng	100
11) Acetonitrile	7.34	41	553872	19.355	ng	99
12) Acrolein	7.57	56	2237	0.301	ng	87
13) Acetone	7.82	58	114822	12.454	ng	94
14) Trichlorofluoromethane	8.02	101	3381	0.148	ng	96
15) 2-Propanol (Isopropanol)	8.33	45	92397	2.550	ng	98
16) Acrylonitrile	8.59	53	358	N.D.		
17) 1,1-Dichloroethene	9.05	96	427	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	8227	0.256	ng	# 40
19) Methylene Chloride	9.23	84	1298	0.105	ng	97
20) 3-Chloro-1-propene (Al...	9.42	41	310	N.D.		
21) Trichlorotrifluoroethane	9.69	151	451	0.054	ng	# 64
22) Carbon Disulfide	9.64	76	6079	0.139	ng	83
23) trans-1,2-Dichloroethene	10.67	61	98	N.D.		
24) 1,1-Dichloroethane	10.98	63	520	N.D.		
25) Methyl tert-Butyl Ether	11.21	73	1030	N.D.		
26) Vinyl Acetate	11.23	86	2142	1.142	ng	# 1
27) 2-Butanone (MEK)	11.70	72	5681	0.682	ng	# 86
28) cis-1,2-Dichloroethene	12.24	61	100	N.D.		
29) Diisopropyl Ether	12.68	87	1579	0.142	ng	# 67
30) Ethyl Acetate	12.68	61	1992	0.459	ng	98
31) n-Hexane	12.58	57	11961	0.539	ng	96

224

WA 8/22/09

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210906.D
 Acq On : 21 Aug 2009 11:16
 Operator : WA
 Sample : P0902805-004 dil (100mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 15:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	14201	0.727	ng	100
34) Tetrahydrofuran (THF)	13.42	72	2239	0.252	ng #	73
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	4241	0.238	ng	93
38) 1,1,1-Trichloroethane	14.17	97	407	N.D.		
39) Isopropyl Acetate	14.83	61	421	0.050	ng #	1
40) 1-Butanol	14.88	56	12132	0.825	ng	81
41) Benzene	14.87	78	17913	0.360	ng	97
42) Carbon Tetrachloride	15.11	117	1643	0.104	ng	91
43) Cyclohexane	15.29	84	5256	0.288	ng	91
44) tert-Amyl Methyl Ether	15.87	73	1475	N.D.		
45) 1,2-Dichloropropane	16.11	63	181	N.D.		
46) Bromodichloromethane	16.37	83	6822	0.416	ng	97
47) Trichloroethene	16.44	130	95	N.D.		
48) 1,4-Dioxane	16.56	88	89	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	22564	0.385	ng	95
50) Methyl Methacrylate	16.87	100	1320	0.288	ng #	1
51) n-Heptane	16.88	71	4708	0.352	ng	96
52) cis-1,3-Dichloropropene	17.65	75	208	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1703	0.142	ng	86
54) trans-1,3-Dichloropropene	18.36	75	323	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	106941	9.781	ng #	4
58) Toluene	18.98	91	103047	2.226	ng	99
59) 2-Hexanone	19.37	43	3849	0.125	ng	87
60) Dibromochloromethane	19.53	129	2822	0.258	ng	98
61) 1,2-Dibromoethane	19.86	107	183	N.D.		
62) n-Butyl Acetate	20.18	43	13782	0.380	ng	89
63) n-Octane	20.27	57	2203	0.197	ng	92
64) Tetrachloroethene	20.46	166	1713	0.160	ng	86
65) Chlorobenzene	21.34	112	1400	N.D.		
66) Ethylbenzene	21.82	91	30031	0.567	ng	98
67) m- & p-Xylenes	22.03	91	82288	1.922	ng	97
68) Bromoform	22.15	173	1124	0.124	ng #	68
69) Styrene	22.51	104	8464	0.274	ng #	64
70) o-Xylene	22.65	91	30779	0.717	ng	98
71) n-Nonane	22.91	43	7519	0.264	ng #	80
72) 1,1,2,2-Tetrachloroethane	22.63	83	567	N.D.		
74) Cumene	23.41	105	4350	0.080	ng	89
75) alpha-Pinene	23.90	93	180453	6.493	ng	77
76) n-Propylbenzene	24.05	91	7576	0.111	ng	94
77) 3-Ethyltoluene	24.17	105	14072	0.272	ng	98
78) 4-Ethyltoluene	24.23	105	8795	0.175	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	6642	0.157	ng	96

225

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210906.D
 Acq On : 21 Aug 2009 11:16
 Operator : WA
 Sample : P0902805-004 dil (100mL)
 Misc : Environmental Health 101398
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 15:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

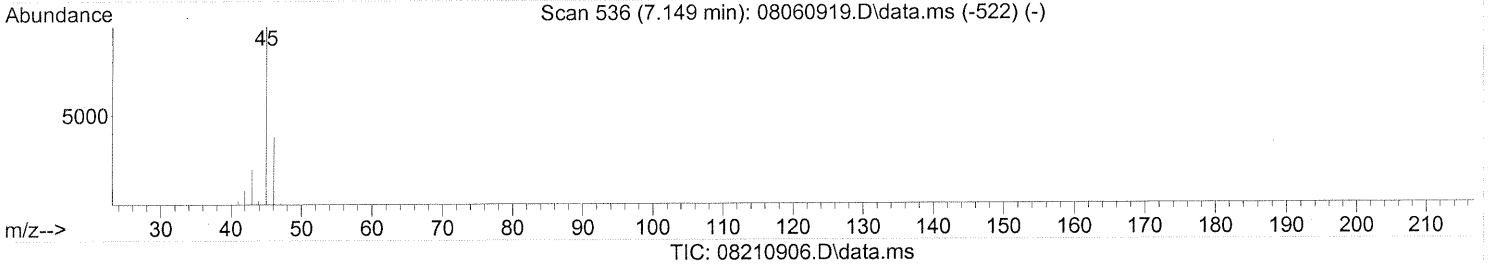
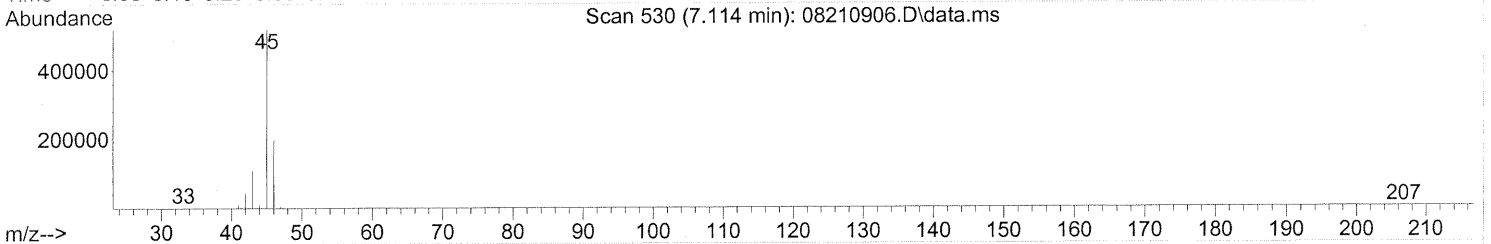
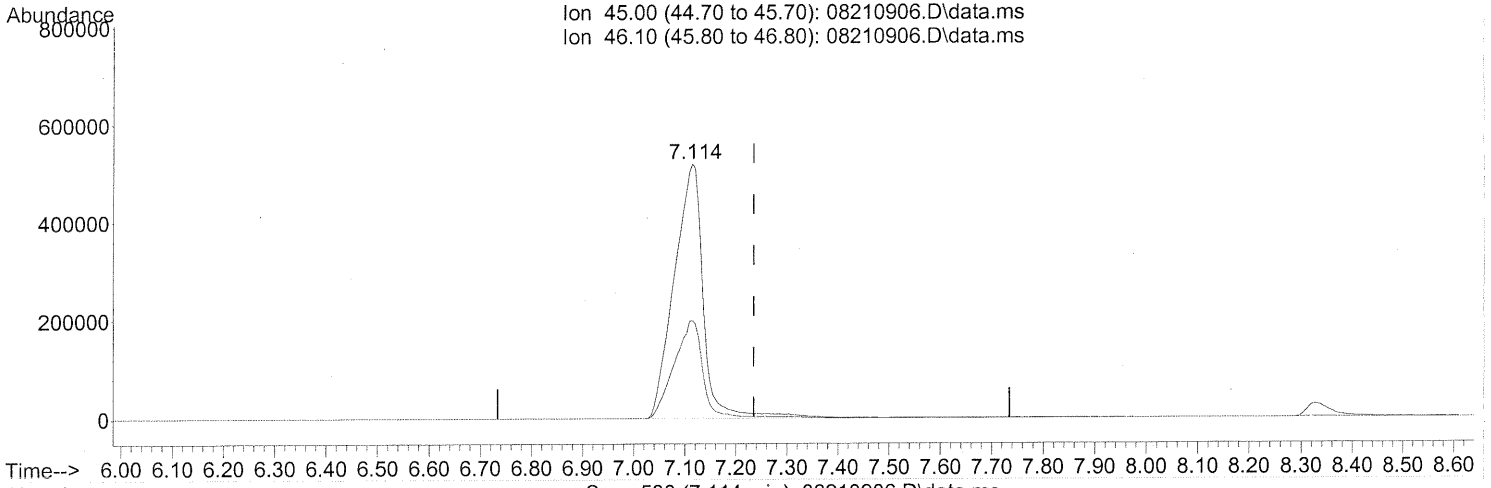
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	896	N.D.		
81) 2-Ethyltoluene	24.55	105	6907	0.132	ng	96
82) 1,2,4-Trimethylbenzene	24.83	105	17366	0.402	ng	89
83) n-Decane	24.93	57	8291	0.295	ng	97
84) Benzyl Chloride	25.05	91	96	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	949	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	2771	0.119	ng	97
87) sec-Butylbenzene	25.16	105	3010	0.052	ng	93
88) 4-Isopropyltoluene (p-...	25.35	119	17896	0.344	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	6549	0.149	ng	94
90) 1,2-Dichlorobenzene	25.53	146	868	N.D.		
91) d-Limonene	25.53	68	101367	5.520	ng	82
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	9665	0.324	ng	100
94) 1,2,4-Trichlorobenzene	27.58	180	925	0.065	ng	# 77
95) Naphthalene	27.73	128	9383	0.160	ng	99
96) n-Dodecane	27.70	57	8331	0.240	ng	92
97) Hexachlorobutadiene	28.15	225	445	N.D.		
98) Cyclohexanone	22.31	55	3436	0.179	ng	88
99) tert-Butylbenzene	24.83	119	3821	0.091	ng	# 67
100) n-Butylbenzene	25.86	91	3775	0.078	ng	# 74

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210906.D
Acq On : 21 Aug 2009 11:16
Operator : WA
Sample : P0902805-004 dil (100mL)
Misc : Environmental Health 101398
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 15:02:30 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.114min (-0.120) 210.99ng
response 2061681

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.18
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101399
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00801

CAS Project ID: P0902805
CAS Sample ID: P0902805-005

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/21/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.3 **Final Pressure (psig):** 3.6

Canister Dilution Factor: 1.27

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	5.4	0.64	3.1	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.64	0.59	0.13	
74-87-3	Chloromethane	1.5	0.13	0.73	0.062	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.091	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	0.38	0.13	0.17	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.033	
75-00-3	Chloroethane	ND	0.13	ND	0.048	
64-17-5	Ethanol	2,700	6.4	1,400	3.4	D
75-05-8	Acetonitrile	250	0.64	150	0.38	D
107-02-8	Acrolein	4.6	0.64	2.0	0.28	
67-64-1	Acetone	160	6.4	66	2.7	
75-69-4	Trichlorofluoromethane	1.5	0.13	0.27	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	31	0.64	13	0.26	
107-13-1	Acrylonitrile	ND	0.64	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	0.73	0.64	0.21	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	0.74	0.13	0.096	0.017	
75-15-0	Carbon Disulfide	1.5	0.64	0.48	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	7.6	0.64	2.6	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

9/5/09

228

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101399

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-005

Test Code: EPA TO-15

Date Collected: 8/13/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/14/09

Analyst: Wida Ang

Date Analyzed: 8/21/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC00801

Initial Pressure (psig): -0.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	5.8	0.64	1.6	0.18	
110-54-3	n-Hexane	6.4	0.64	1.8	0.18	
67-66-3	Chloroform	9.2	0.13	1.9	0.026	
109-99-9	Tetrahydrofuran (THF)	1.5	0.64	0.52	0.22	
107-06-2	1,2-Dichloroethane	2.7	0.13	0.66	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	4.0	0.13	1.3	0.040	
56-23-5	Carbon Tetrachloride	0.99	0.13	0.16	0.020	
110-82-7	Cyclohexane	2.9	0.64	0.84	0.18	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	4.7	0.13	0.70	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	0.64	ND	0.16	
142-82-5	n-Heptane	4.6	0.64	1.1	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	2.4	0.64	0.59	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	28	0.64	7.4	0.17	
591-78-6	2-Hexanone	1.1	0.64	0.26	0.16	
124-48-1	Dibromochloromethane	3.4	0.13	0.40	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	5.1	0.64	1.1	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: 

Date: 9/3/09

229

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101399
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P0902805-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00801

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/21/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.2	0.64	0.48	0.14	
127-18-4	Tetrachloroethene	1.6	0.13	0.23	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	8.4	0.64	1.9	0.15	
179601-23-1	m,p-Xylenes	29	0.64	6.7	0.15	
75-25-2	Bromoform	1.4	0.64	0.14	0.061	
100-42-5	Styrene	3.4	0.64	0.79	0.15	
95-47-6	o-Xylene	10	0.64	2.4	0.15	
111-84-2	n-Nonane	2.8	0.64	0.54	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	78	0.64	14	0.11	
103-65-1	n-Propylbenzene	0.84	0.64	0.17	0.13	
622-96-8	4-Ethyltoluene	1.5	0.64	0.31	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.4	0.64	0.28	0.13	
95-63-6	1,2,4-Trimethylbenzene	4.4	0.64	0.90	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.88	0.13	0.15	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	67	0.64	12	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.64	ND	0.066	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	ND	0.086	
91-20-3	Naphthalene	0.84	0.64	0.16	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

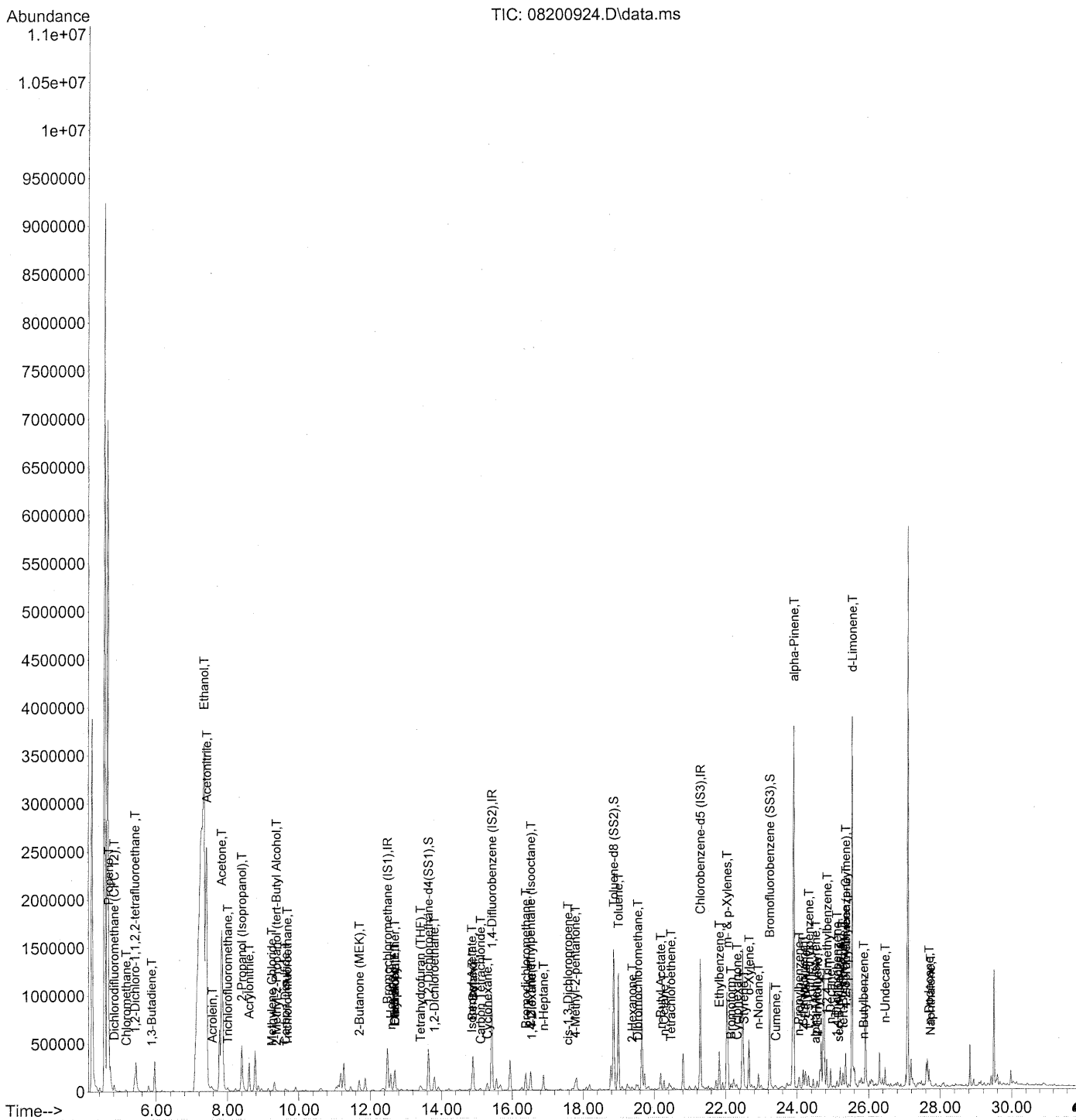
Date: _____

9/3/09

230

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 11:55:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 11:55:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	232086	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1173952	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	561814	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	450308	22.323	ng	-0.03
Spiked Amount	25.000			Recovery =	89.28%	✓
57) Toluene-d8 (SS2)	18.85	98	1276653	26.006	ng	-0.02
Spiked Amount	25.000			Recovery =	104.04%	✓
73) Bromofluorobenzene (SS3)	23.23	174	363753	28.098	ng	-0.01
Spiked Amount	25.000			Recovery =	112.40%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	67673	4.249	ng	95
3) Dichlorodifluoromethan...	4.82	85	59452	2.284	ng	98
4) Chloromethane	5.16	50	20694	1.183	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	785	0.074	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	3601	0.299	ng	# 81
8) Bromomethane	6.36	94	424	N.D.		
9) Chloroethane	6.69	64	94	N.D.		
10) Ethanol	7.33	45	18691360	1851.513	ng	see dil 100
11) Acetonitrile	7.41	41	5609661	189.742	ng	see dil 100
12) Acrolein	7.57	56	27782	3.615	ng	97
13) Acetone	7.83	58	1176505	123.515	ng	95
14) Trichlorofluoromethane	8.01	101	27696	1.177	ng	97
15) 2-Propanol (Isopropanol)	8.40	45	916372	24.481	ng	99
16) Acrylonitrile	8.61	53	6687	0.389	ng	# 58
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.37	59	18871	0.568	ng	# 65
19) Methylene Chloride	9.25	84	7351	0.575	ng	83
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.67	151	4953	0.579	ng	96
22) Carbon Disulfide	9.62	76	52802	1.171	ng	96
23) trans-1,2-Dichloroethene	10.59	61	99	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. d		
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.69	72	51365	5.972	ng	# 92
28) cis-1,2-Dichloroethene	12.35	61	98	N.D.		
29) Diisopropyl Ether	12.69	87	15655	1.360	ng	# 50
30) Ethyl Acetate	12.68	61	20578	4.593	ng	94
31) n-Hexane	12.58	57	115648	5.046	ng	96

232

WA 8/22/09

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 11:55:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	145930	7.232 ng		99
34) Tetrahydrofuran (THF)	13.41	72	11157	1.217 ng	#	34
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	38554	2.091 ng		98
38) 1,1,1-Trichloroethane	14.18	97	595	N.D.		
39) Isopropyl Acetate	14.86	61	2458	0.282 ng	#	1
40) 1-Butanol	14.89	56	213187	13.992 ng		80
41) Benzene	14.87	78	162688	3.152 ng		98
42) Carbon Tetrachloride	15.11	117	12852	0.781 ng		100
43) Cyclohexane	15.30	84	43118	2.281 ng		93
44) tert-Amyl Methyl Ether	15.88	73	99	N.D.		
45) 1,2-Dichloropropane	16.11	63	421	N.D.		
46) Bromodichloromethane	16.38	83	62983	3.703 ng		97
47) Trichloroethene	16.45	130	87	N.D.		
48) 1,4-Dioxane	16.55	88	1066	0.108 ng	#	12
49) 2,2,4-Trimethylpentane...	16.52	57	217639	3.580 ng	NR	94
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	49740	3.591 ng		98
52) cis-1,3-Dichloropropene	17.57	75	1962	0.091 ng	#	1
53) 4-Methyl-2-pentanone	17.77	58	23755	1.915 ng		99
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	1060800	21.988 ng		100
59) 2-Hexanone	19.37	43	26937	0.840 ng		98
60) Dibromochloromethane	19.53	129	30431	2.666 ng		100
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	151699	4.012 ng		94
63) n-Octane	20.27	57	20649	1.770 ng		94
64) Tetrachloroethene	20.46	166	13729	1.230 ng		98
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.82	91	364505	6.609 ng		98
67) m- & p-Xylenes	22.04	91	1020015	22.863 ng		97
68) Bromoform	22.15	173	10486	1.106 ng		98
69) Styrene	22.51	104	85778	2.660 ng	#	61
70) o-Xylene	22.65	91	359449	8.036 ng		97
71) n-Nonane	22.91	43	66235	2.229 ng	#	79
72) 1,1,2,2-Tetrachloroethane	22.65	83	754	N.D.		
74) Cumene	23.41	105	20932	0.370 ng		96
75) alpha-Pinene	23.90	93	1787580	61.720 ng		84
76) n-Propylbenzene	24.05	91	46767	0.658 ng		87
77) 3-Ethyltoluene	24.17	105	120575	2.233 ng		100
78) 4-Ethyltoluene	24.22	105	62023	1.185 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	47500	1.076 ng		98

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 11:55:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

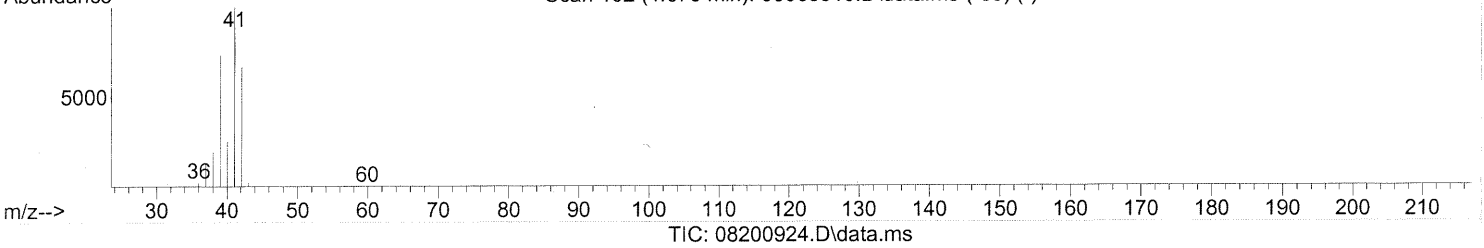
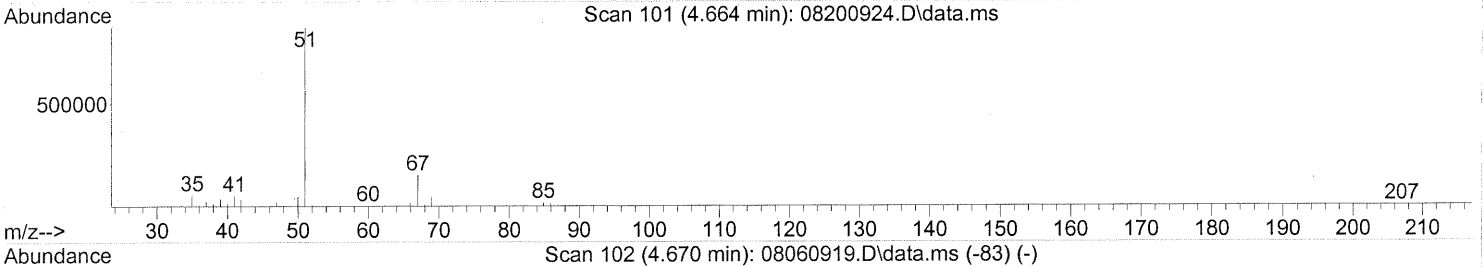
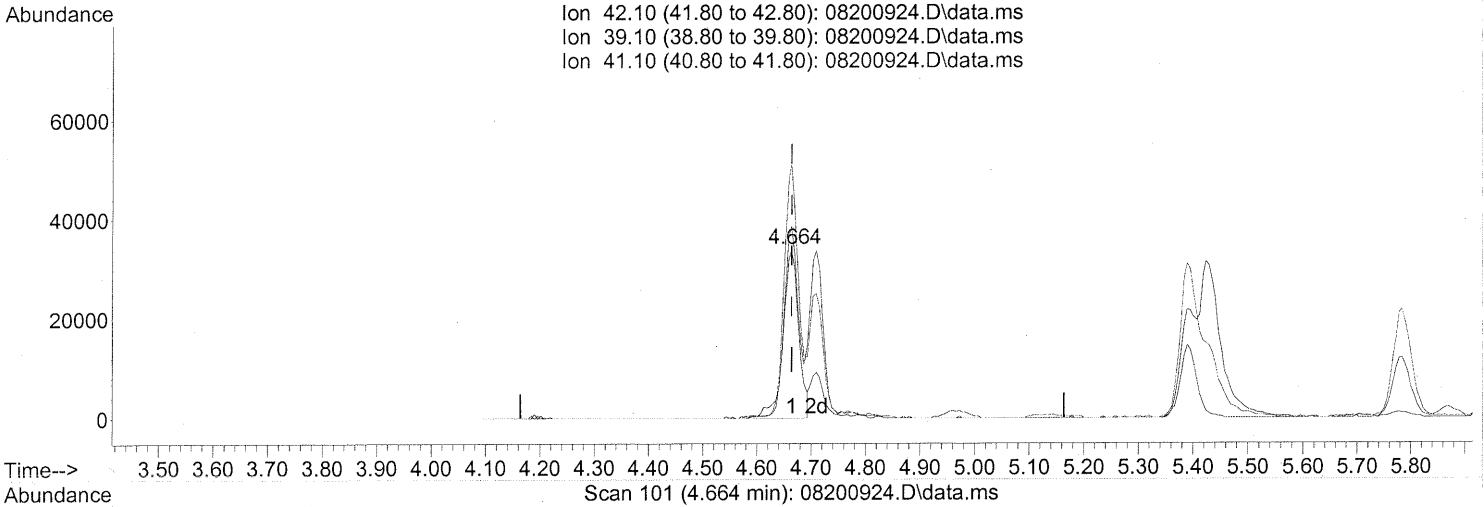
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1631	0.069	ng	# 74
81) 2-Ethyltoluene	24.56	105	46272	0.850	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	155917	3.465	ng	91
83) n-Decane	24.93	57	77839	2.660	ng	92
84) Benzyl Chloride	25.01	91	388	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.10	146	16740	0.689	ng	100
87) sec-Butylbenzene	25.16	105	7404	0.122	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	159759	2.947	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	45665	0.996	ng	# 69
90) 1,2-Dichlorobenzene	25.90	146	264	N.D.		
91) d-Limonene	25.53	68	1010021	52.778	ng	83
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	68698	2.207	ng	84
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	40648	0.665	ng	96
96) n-Dodecane	27.69	57	56666	1.567	ng	99
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	26135	1.307	ng	97
99) tert-Butylbenzene	25.27	119	8647	0.199	ng	95
100) n-Butylbenzene	25.86	91	14124	0.282	ng	# 40

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(2) Propene (T)

4.664min (-0.000) 4.25ng

response 67673

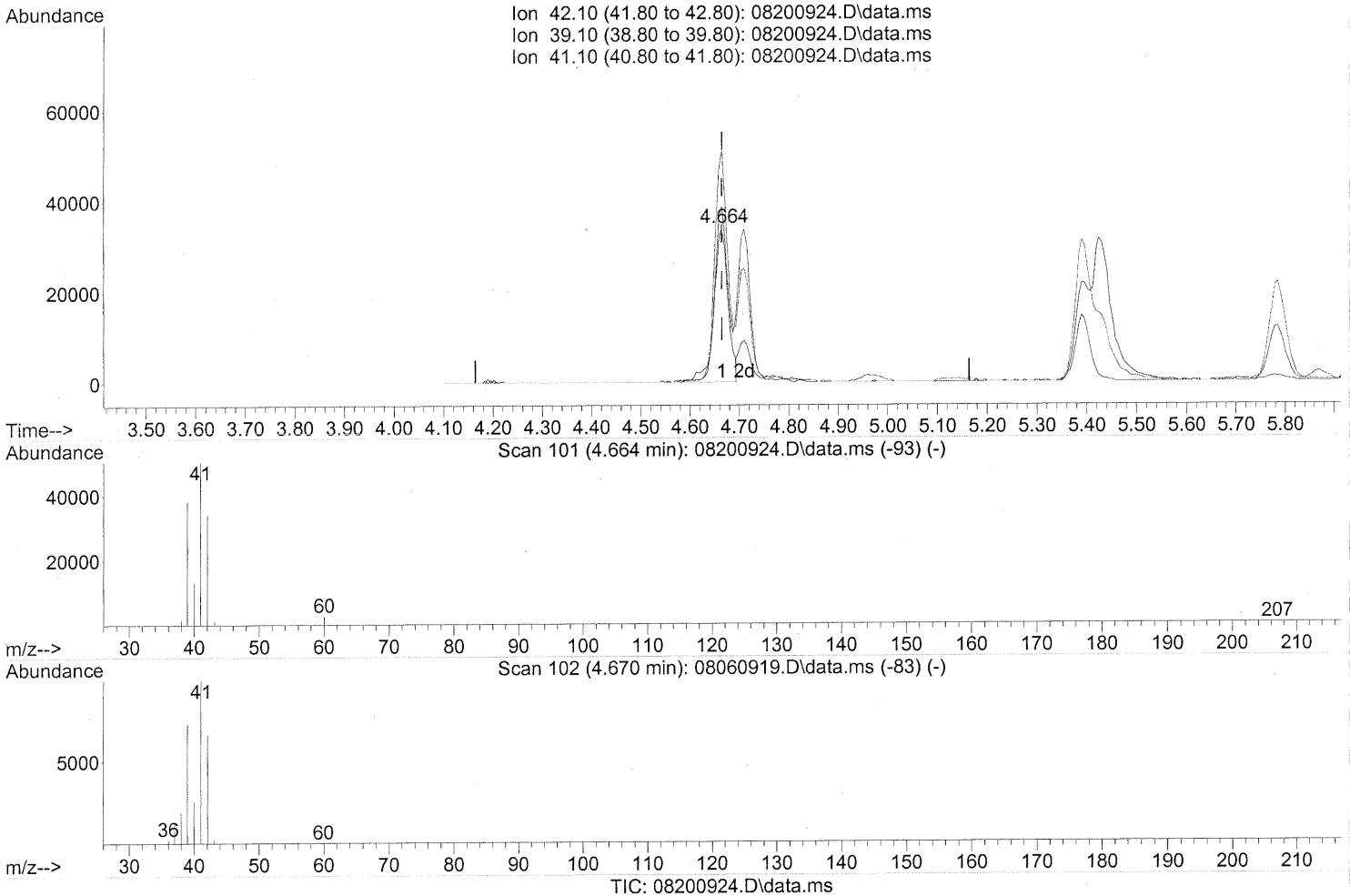
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	106.46
41.10	150.20	143.60
0.00	0.00	0.00

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
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 Response via : Initial Calibration



(2) Propene (T)

4.664min (-0.000) 4.25ng

response 67673

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	106.46
41.10	150.20	143.60
0.00	0.00	0.00

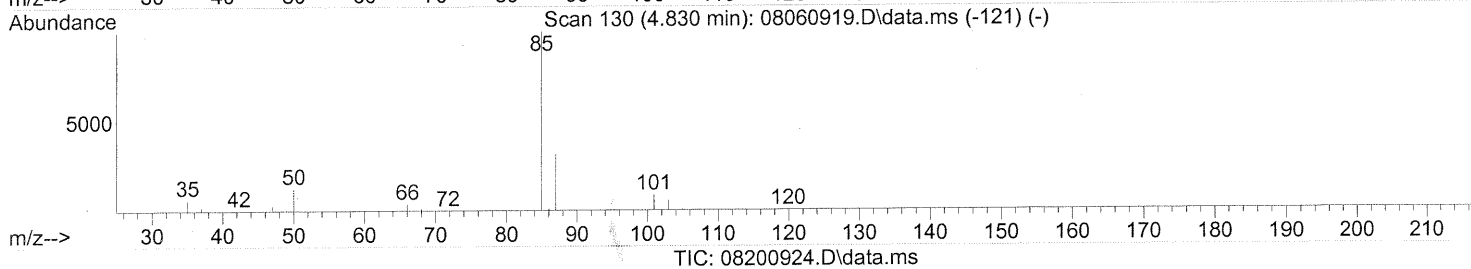
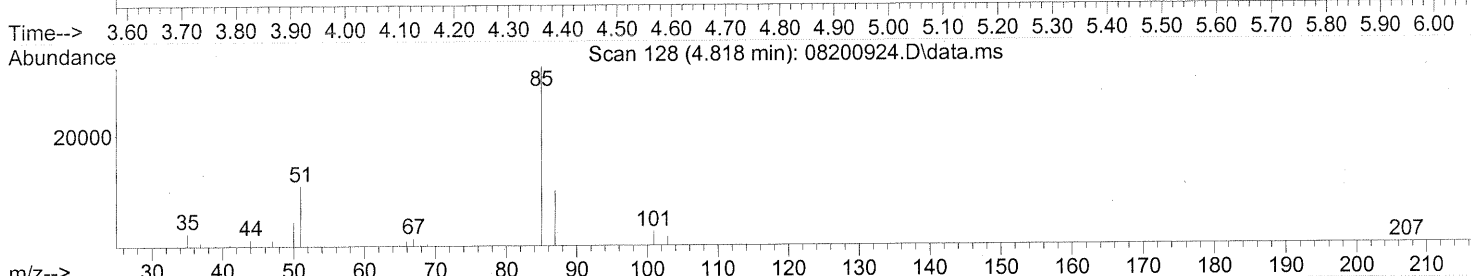
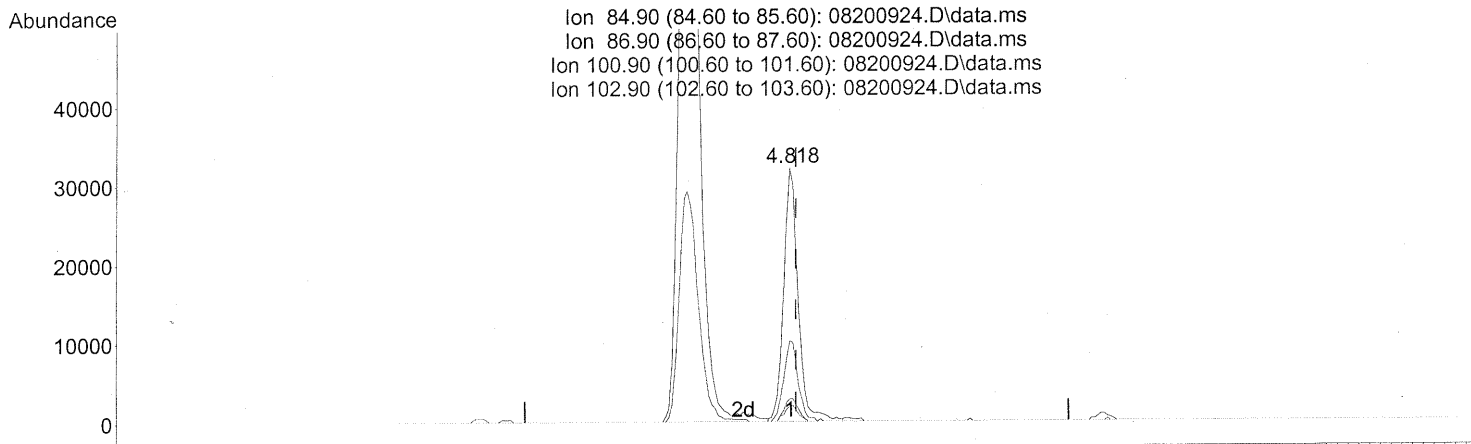
after substr.

WA 8/22/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.011) 2.28ng

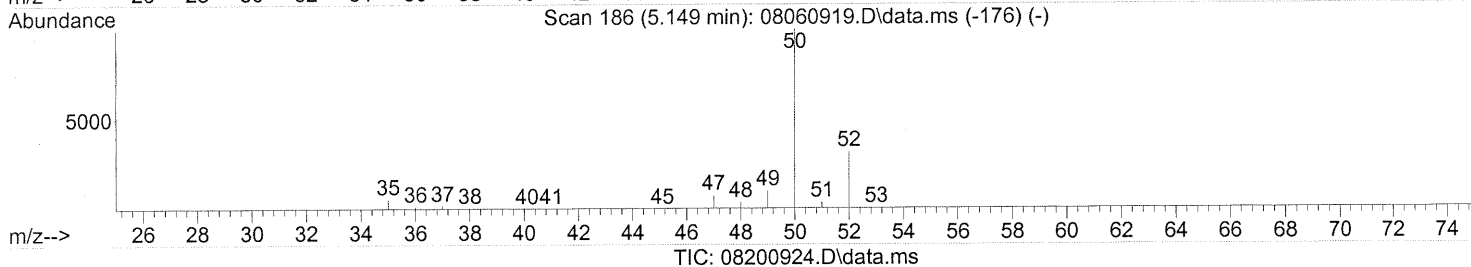
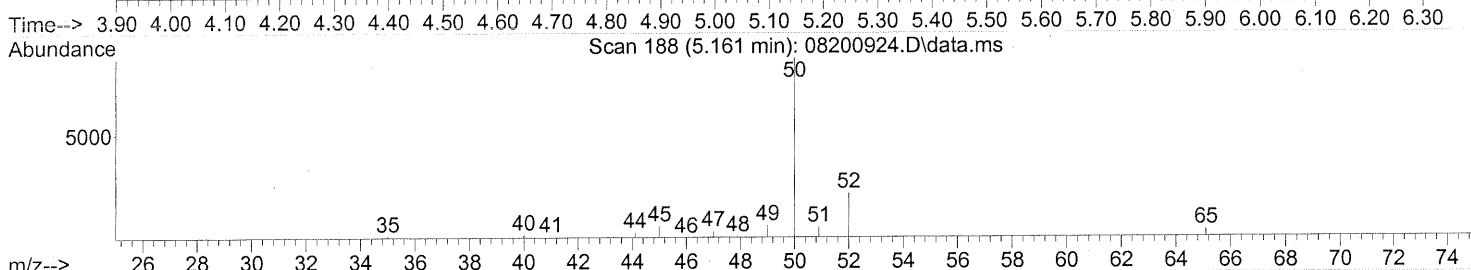
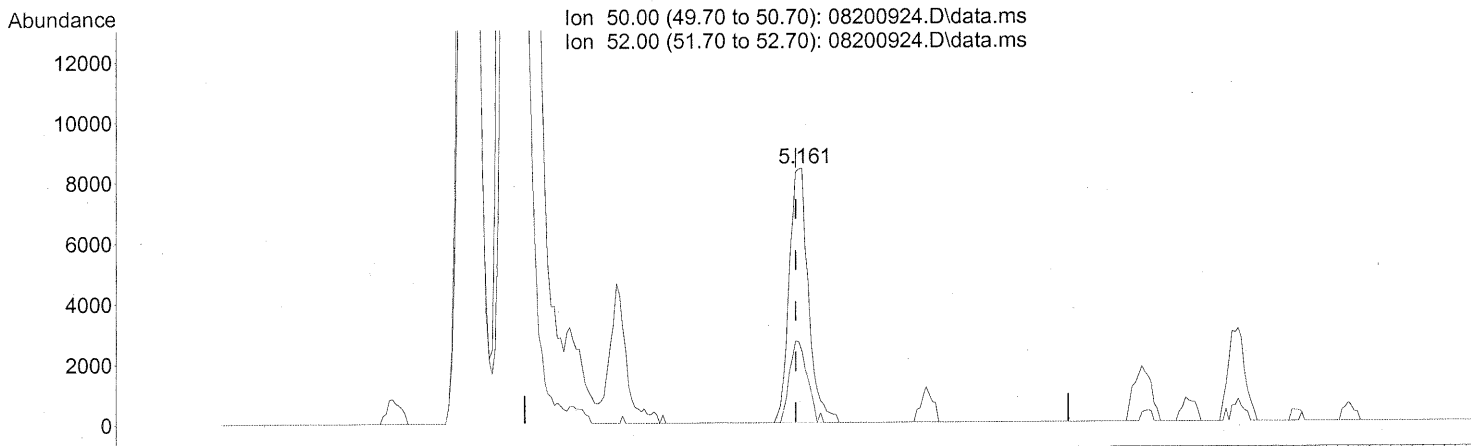
response 59452

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.70
100.90	8.80	8.64
102.90	5.20	5.82

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

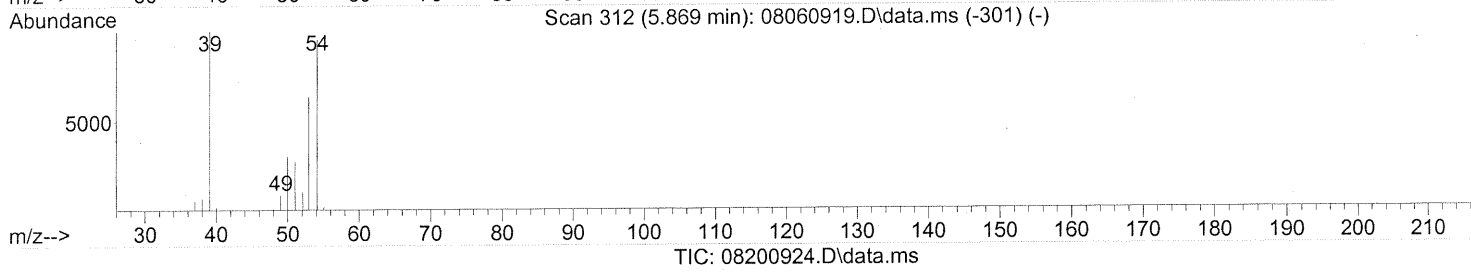
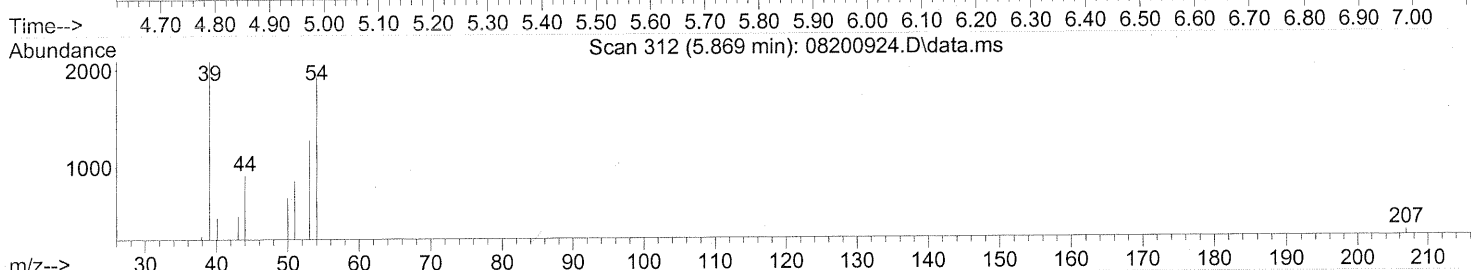
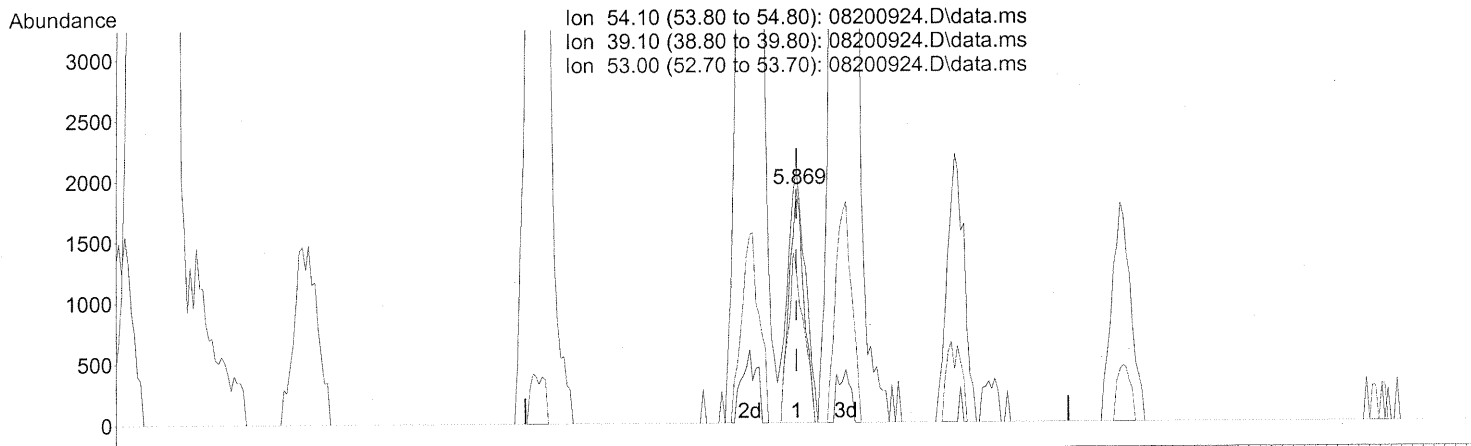
5.161min (+0.011) 1.18ng
 response 20694

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.869min (-0.000) 0.30ng

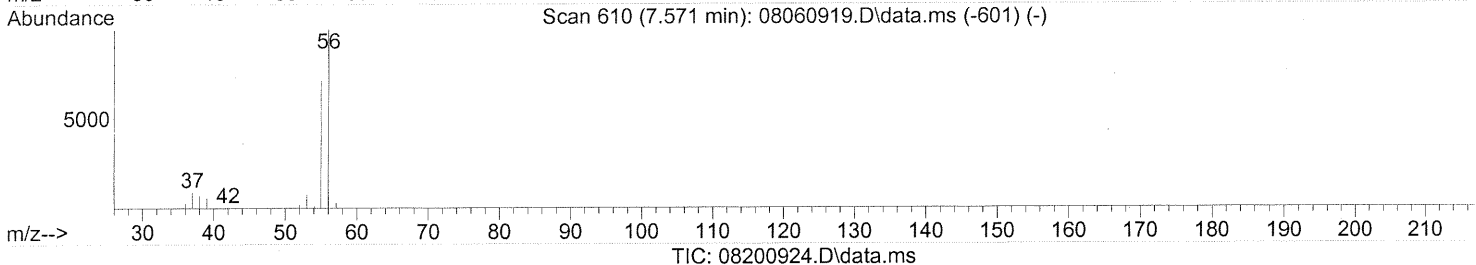
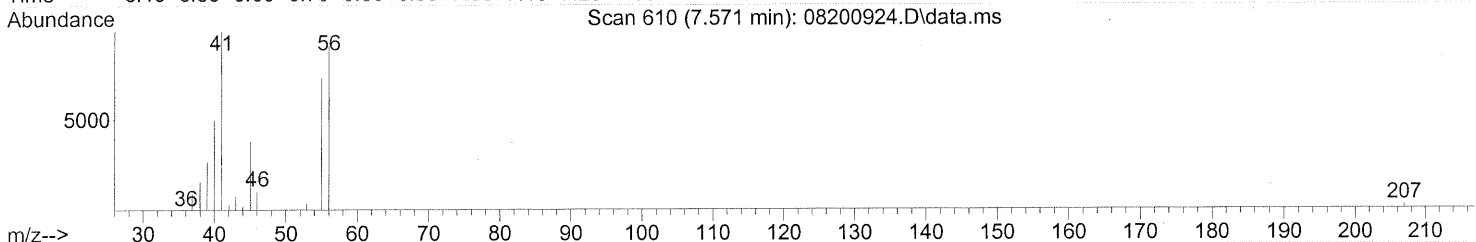
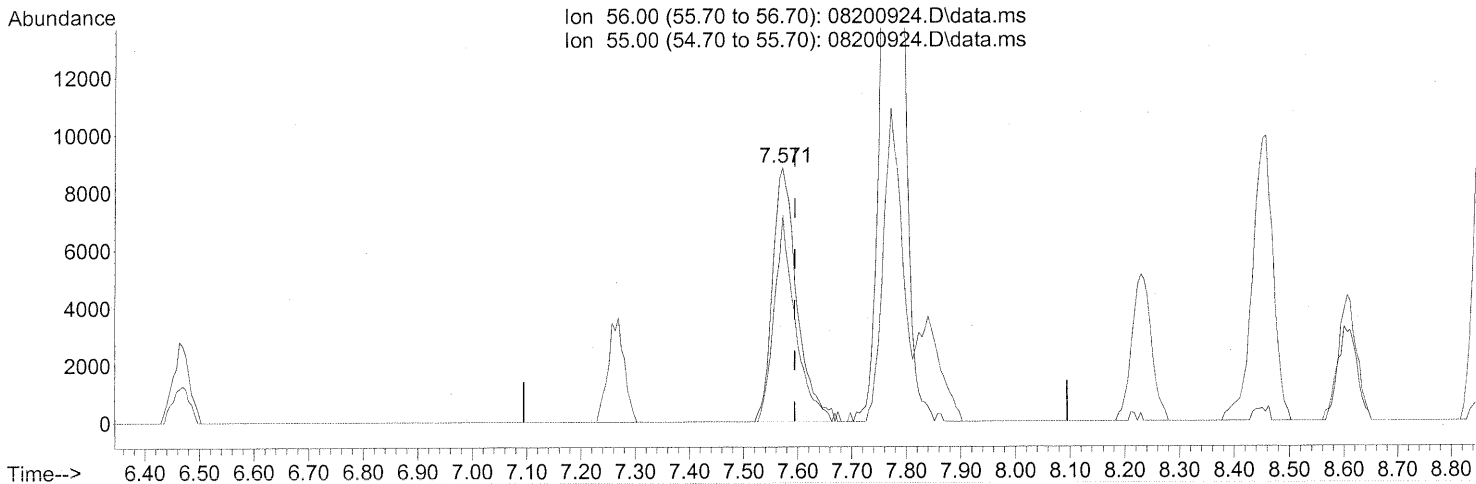
response 3601

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	132.88#
53.00	69.50	76.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
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Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



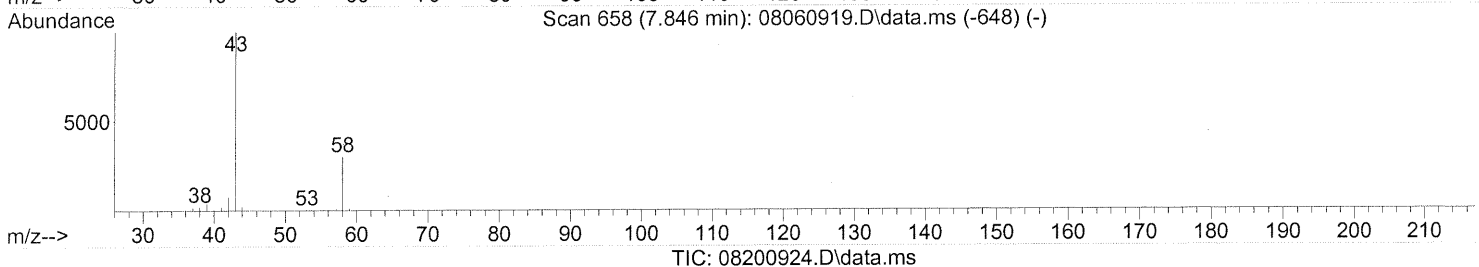
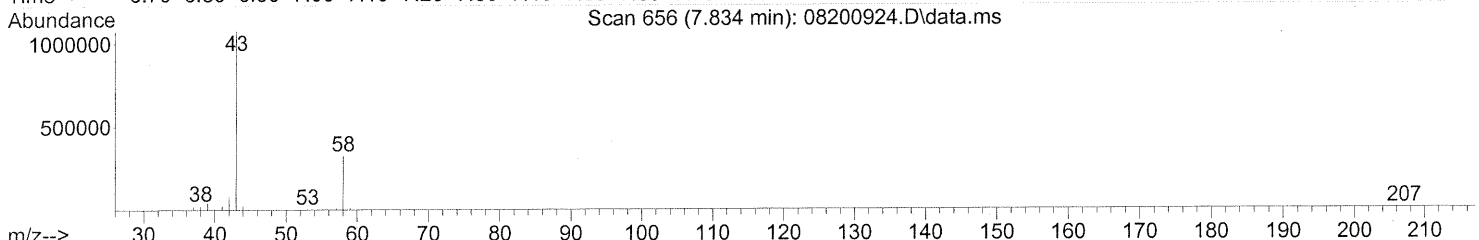
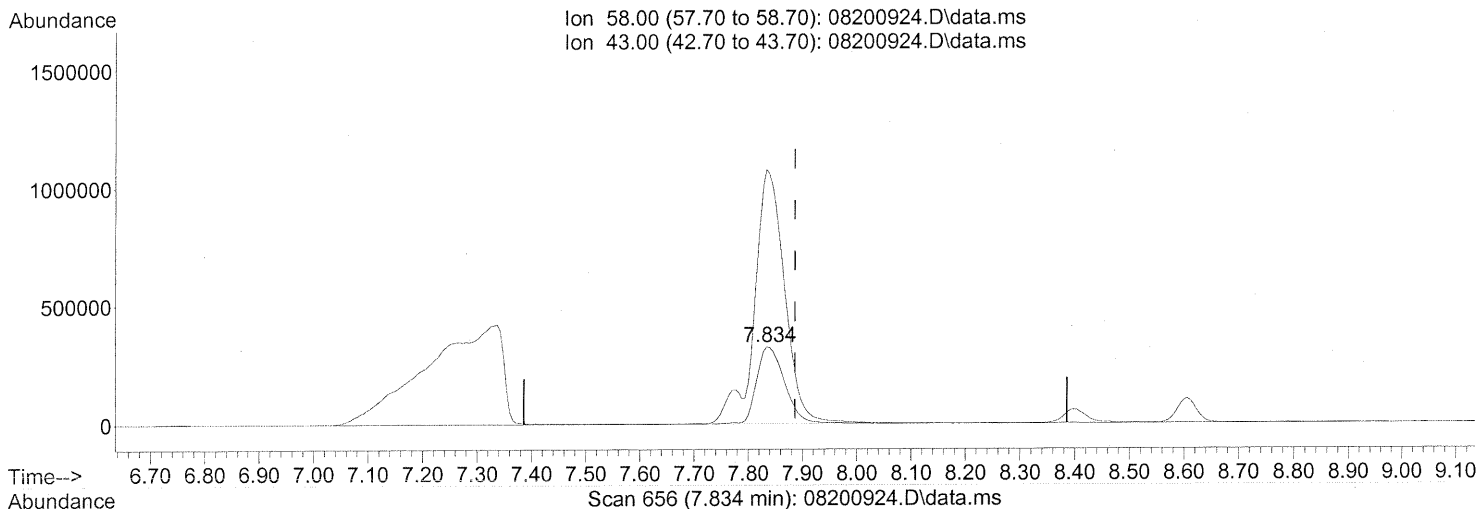
(12) Acrolein (T)
 7.571min (-0.023) 3.62ng
 response 27782

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	70.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
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Quant Time: Aug 21 03:56:43 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

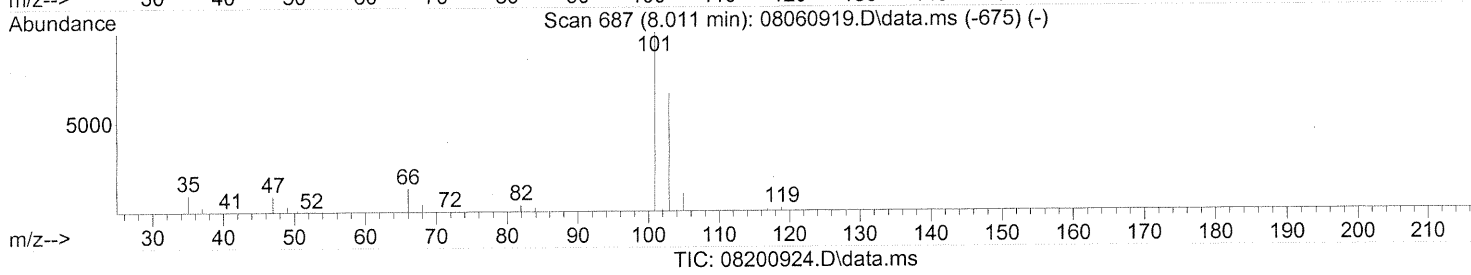
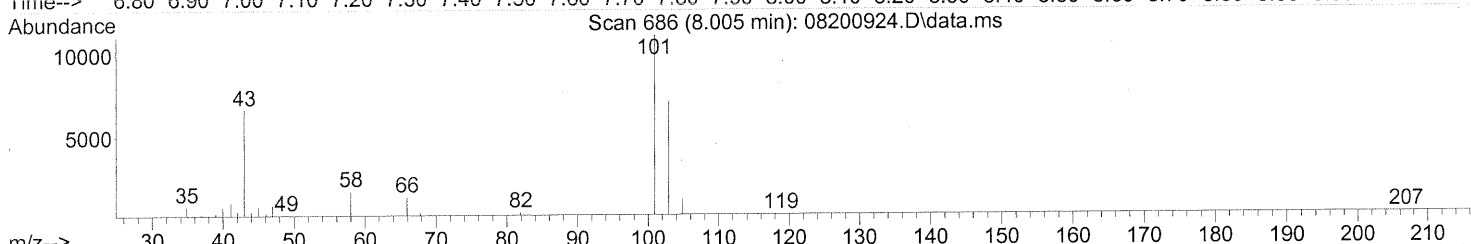
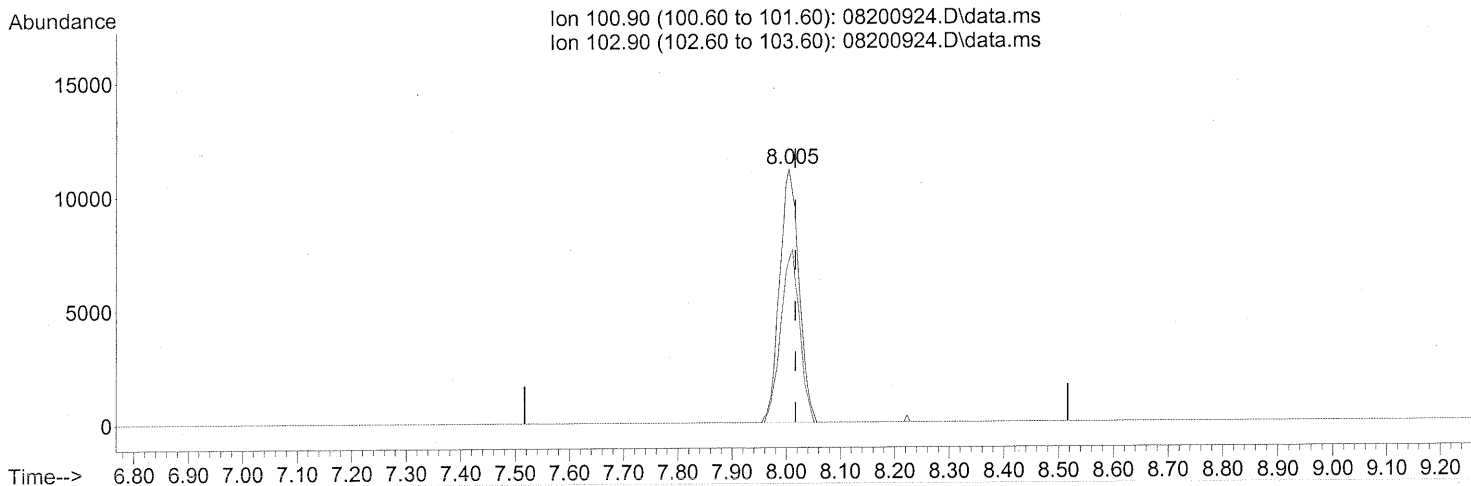
7.834min (-0.052) 123.51ng
 response 1176505

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	330.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.005min (-0.011) 1.18ng

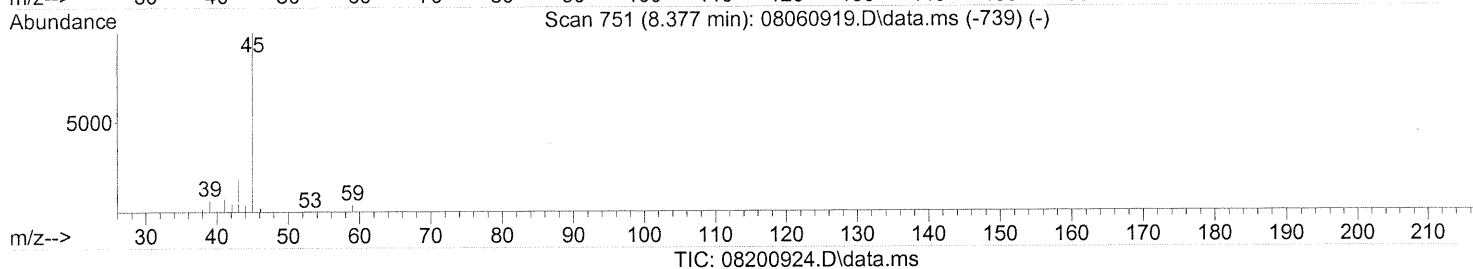
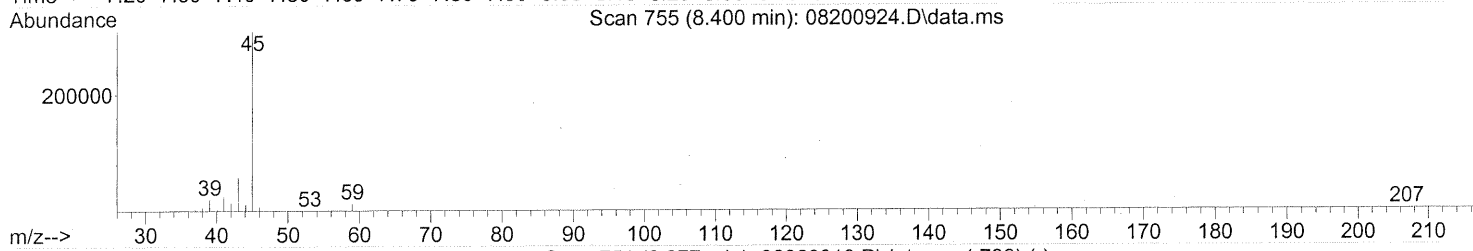
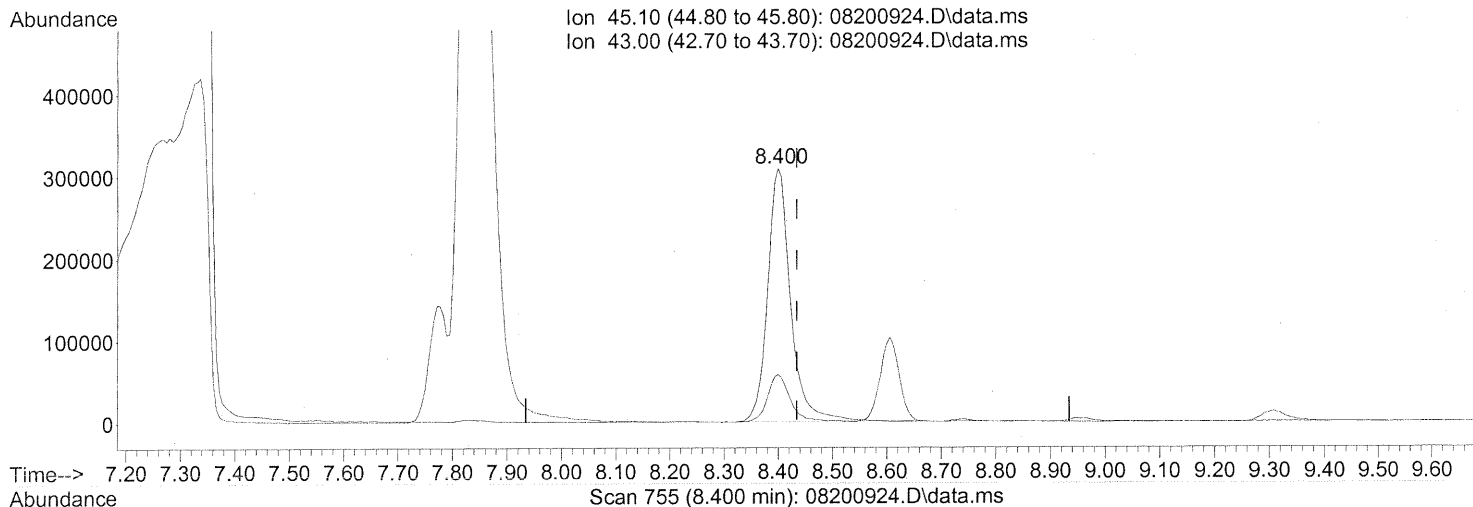
response 27696

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.400min (-0.034) 24.48ng

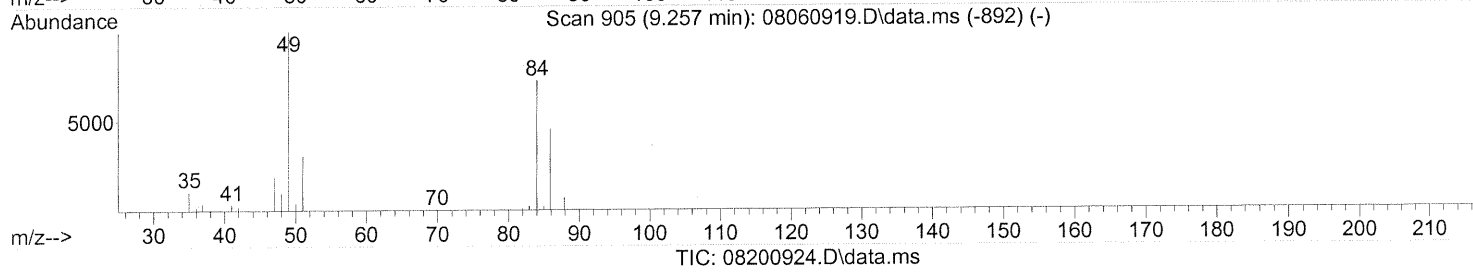
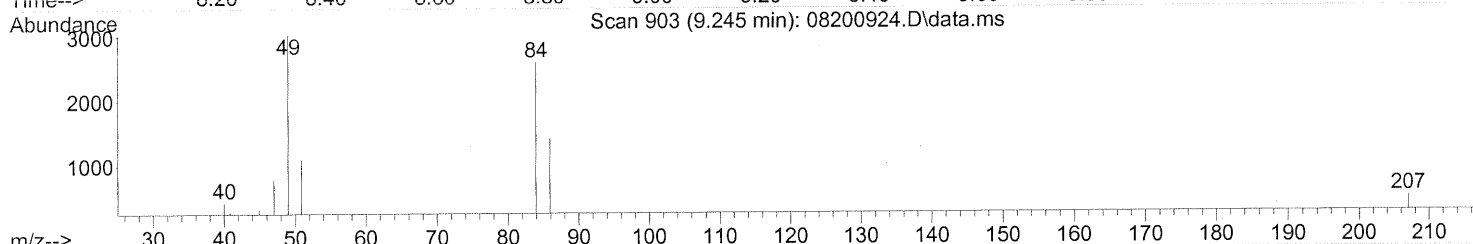
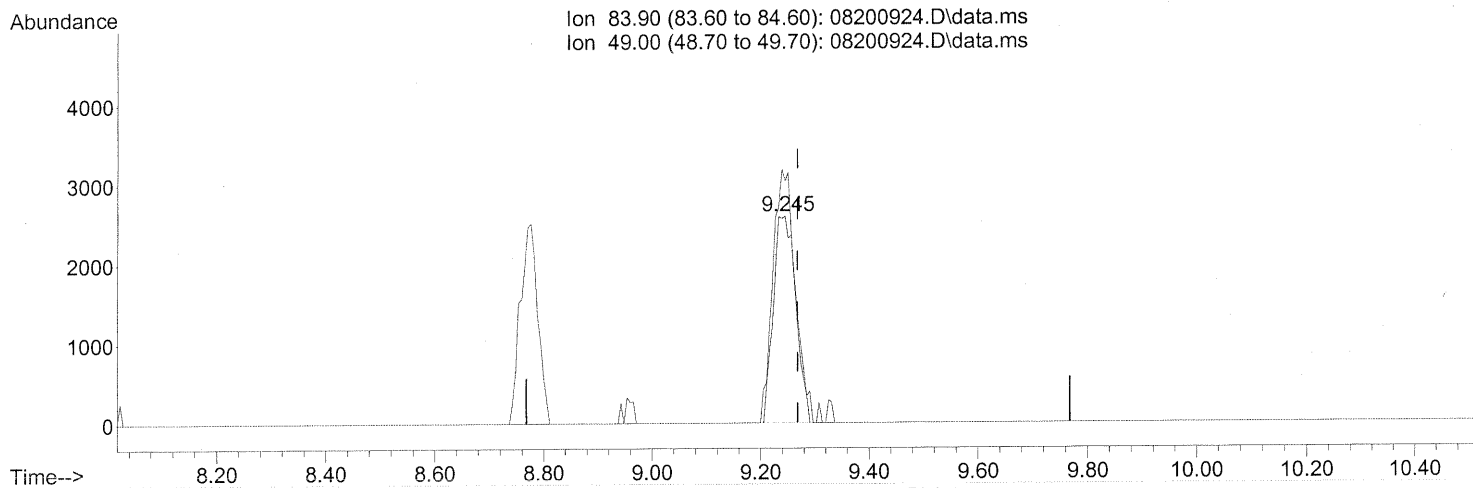
response 916372

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.245min (-0.023) 0.57ng

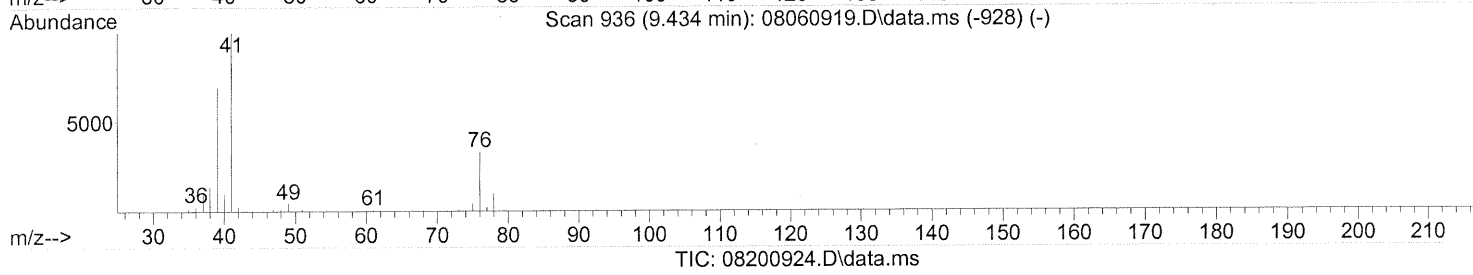
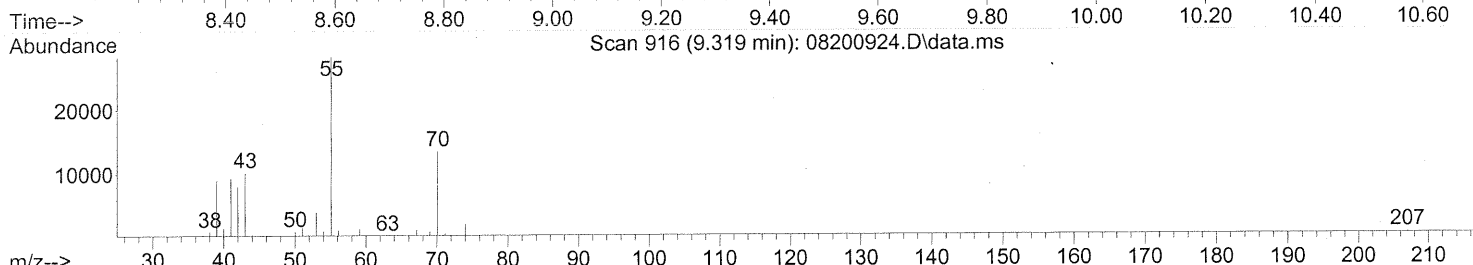
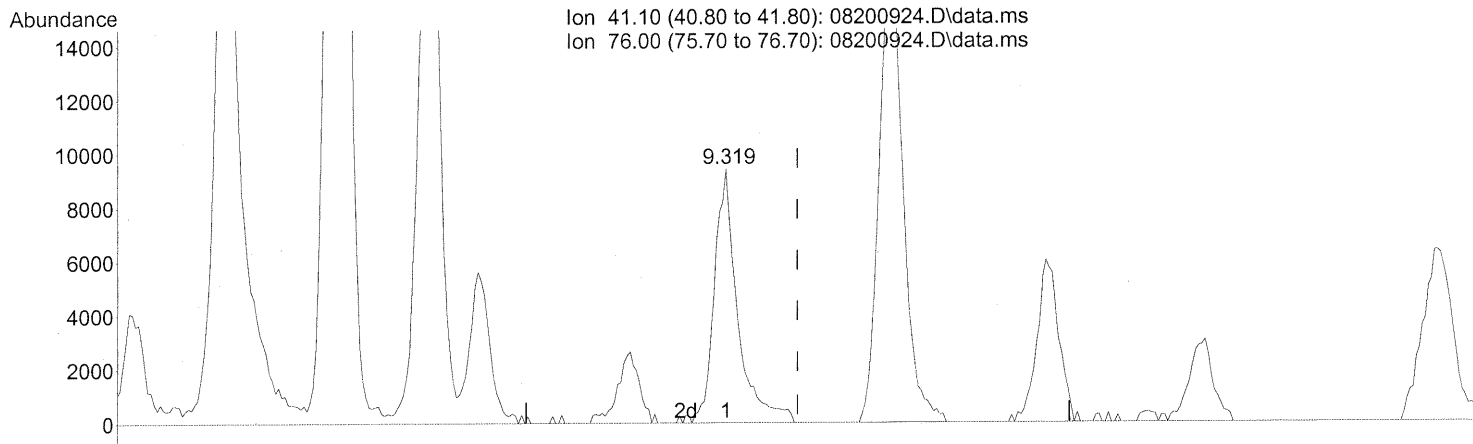
response 7351

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	123.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.319min (-0.131) 1.14ng

response 28120

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

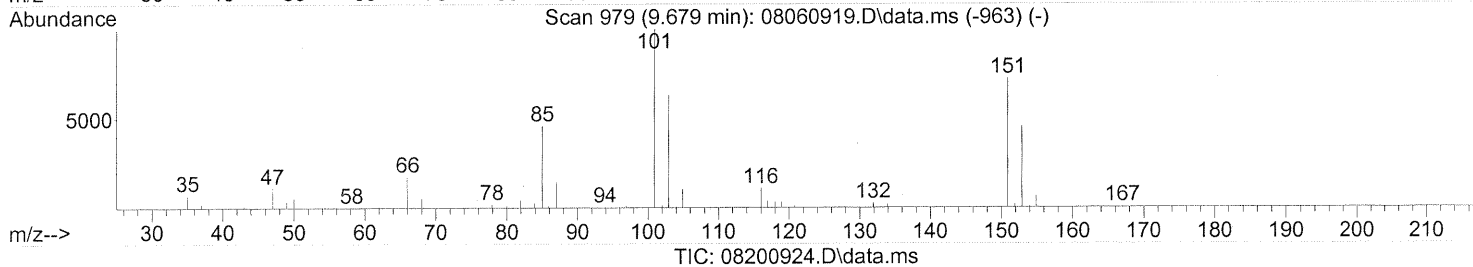
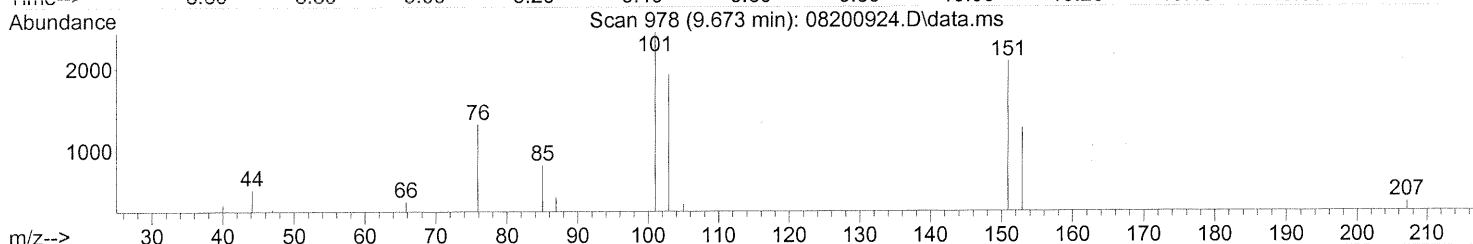
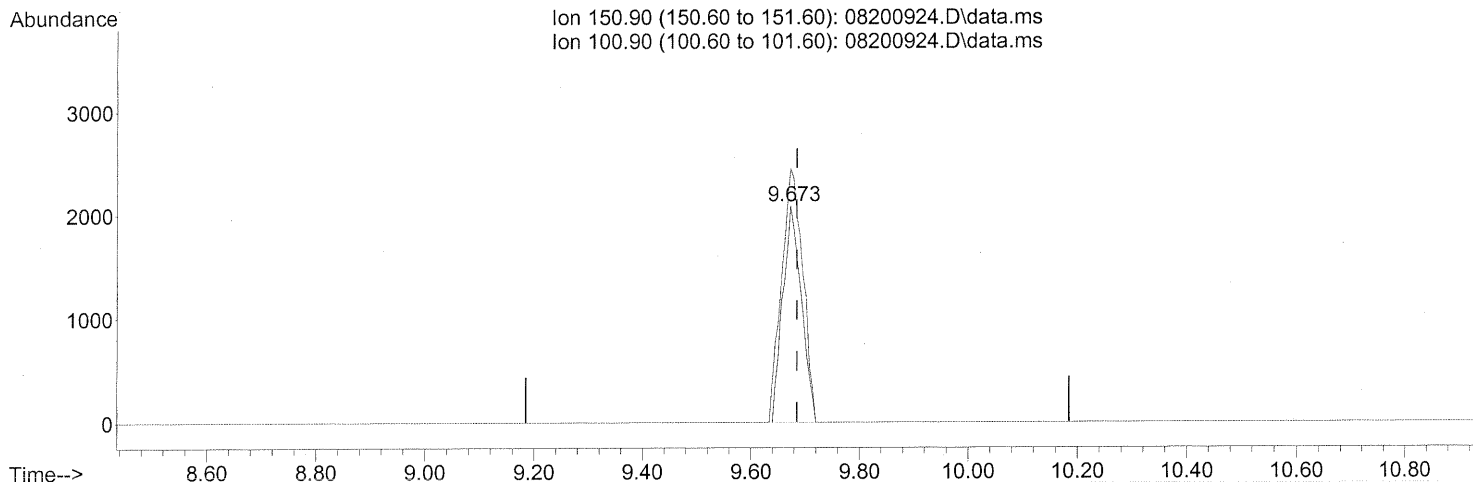
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.673min (-0.011) 0.58ng

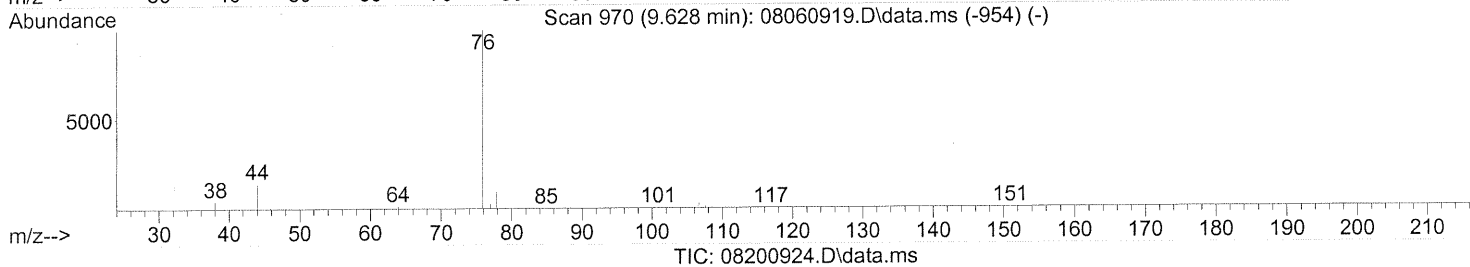
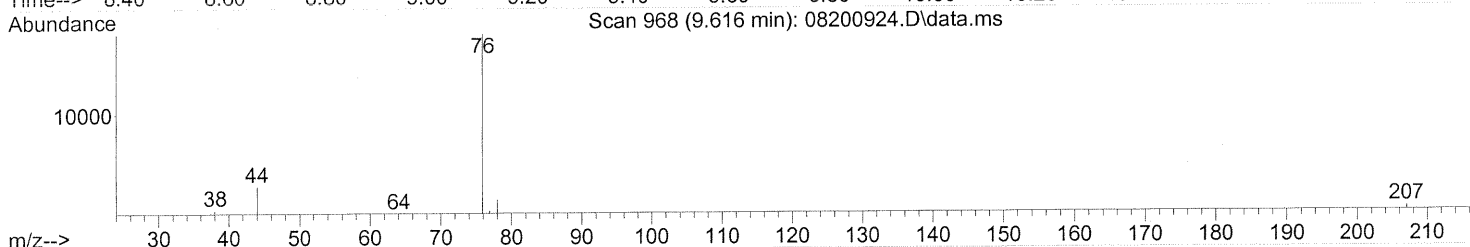
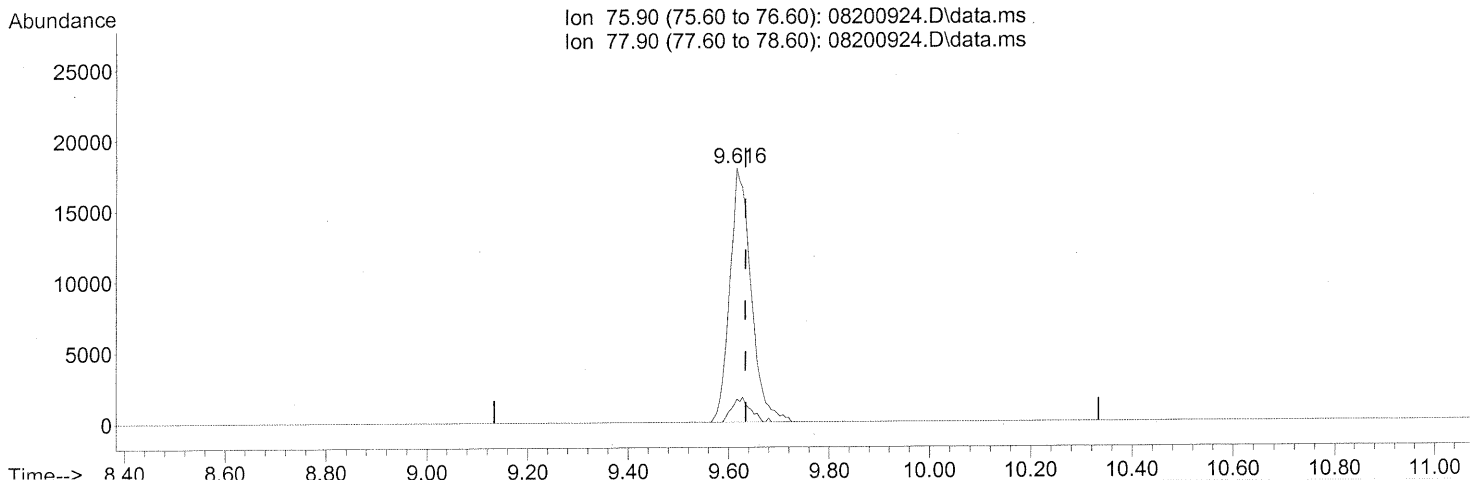
response 4953

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	133.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.616min (-0.017) 1.17ng

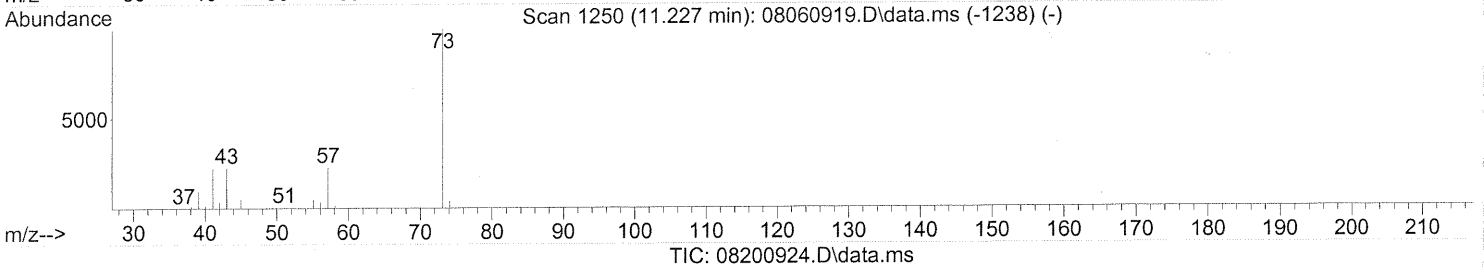
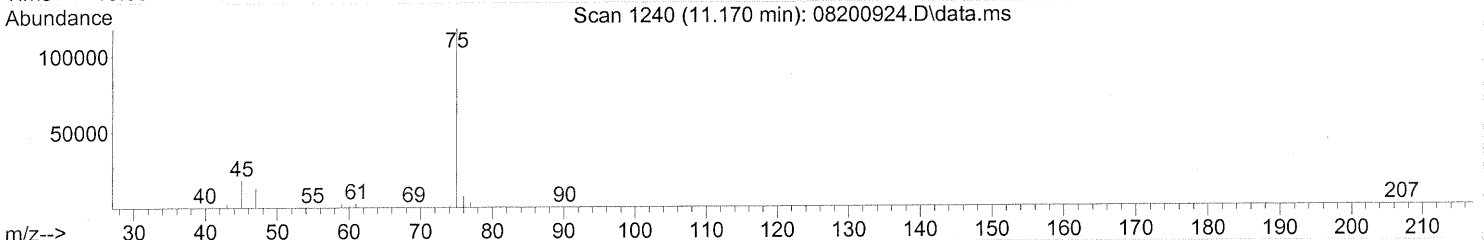
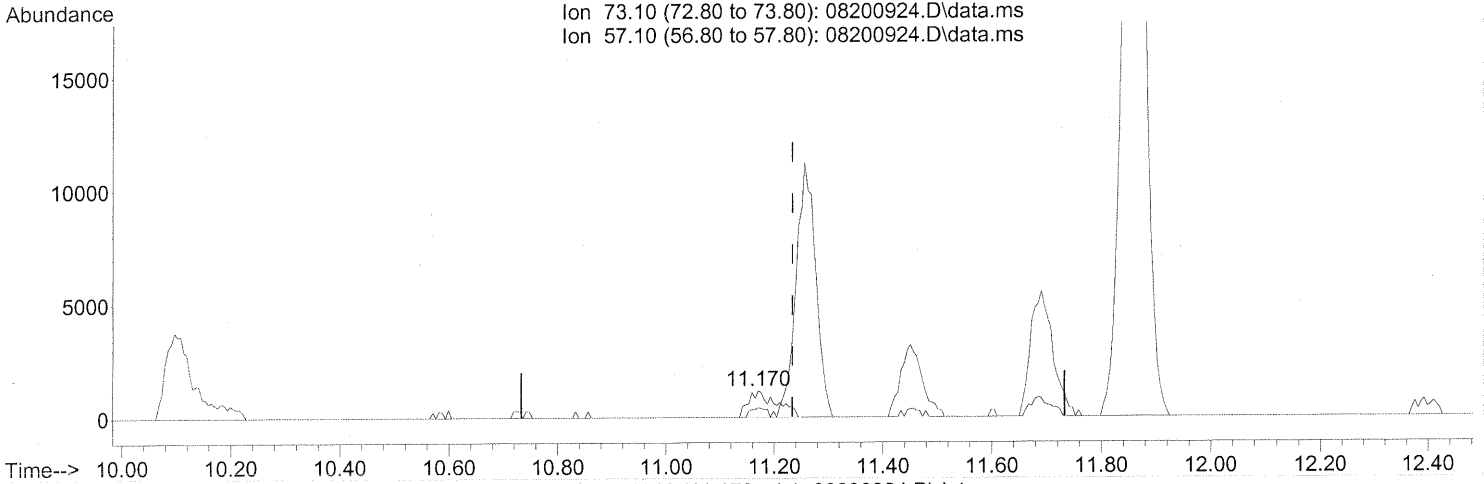
response 52802

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.170min (-0.063) 0.12ng

response 4165

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	20.31
0.00	0.00	0.00
0.00	0.00	0.00

TP

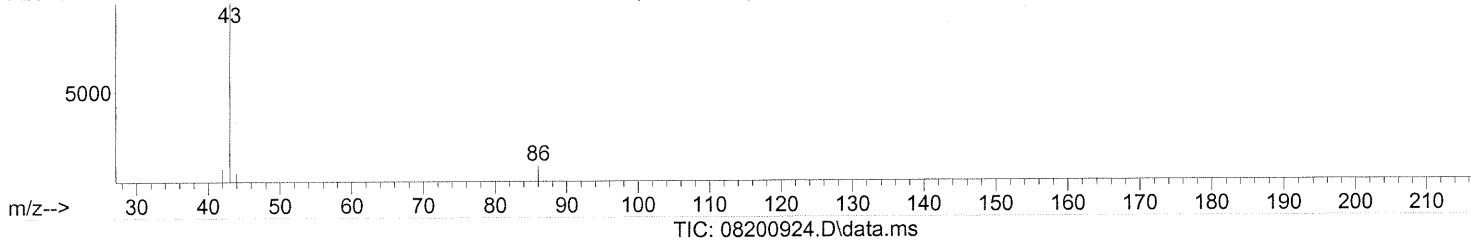
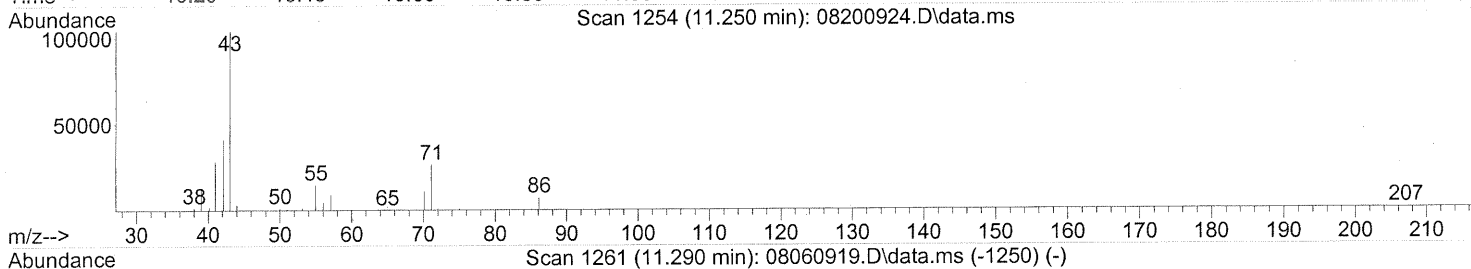
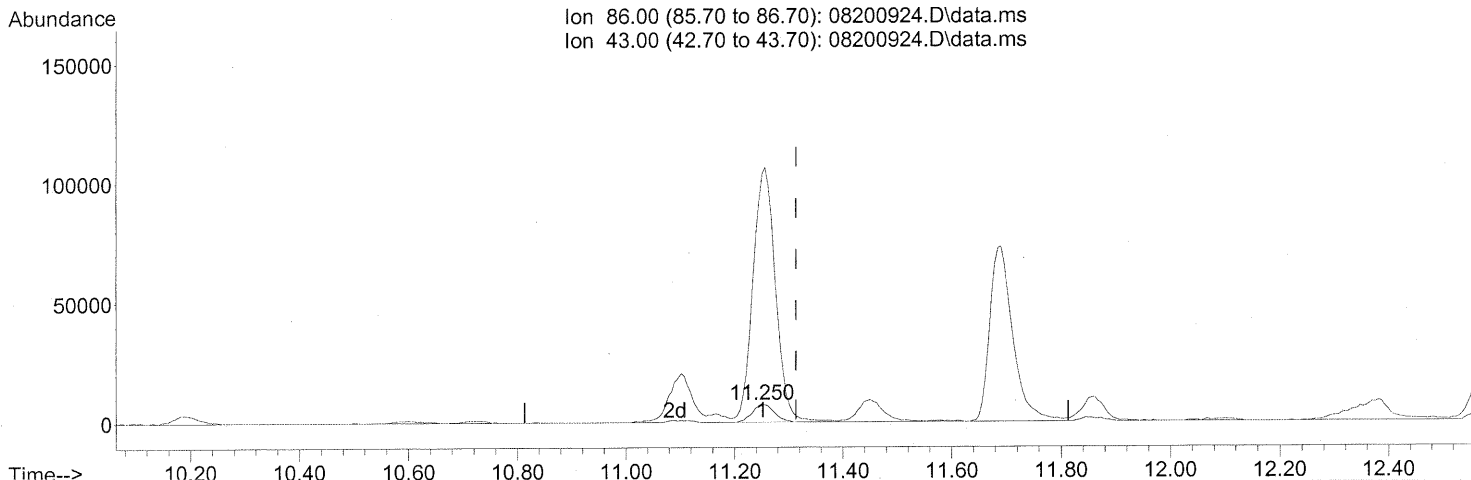
8/26/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.250min (-0.063) 10.60ng

response 20547

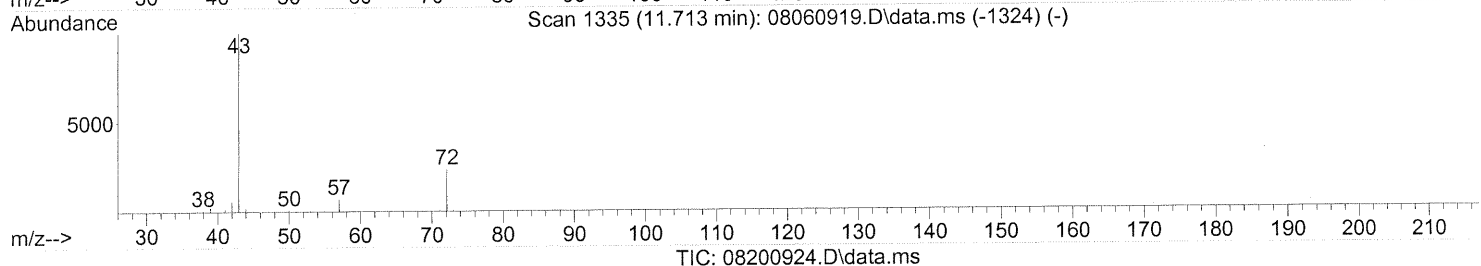
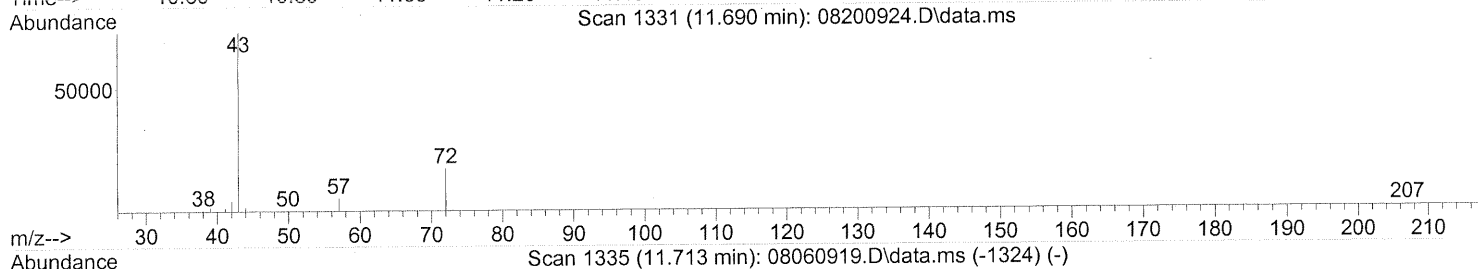
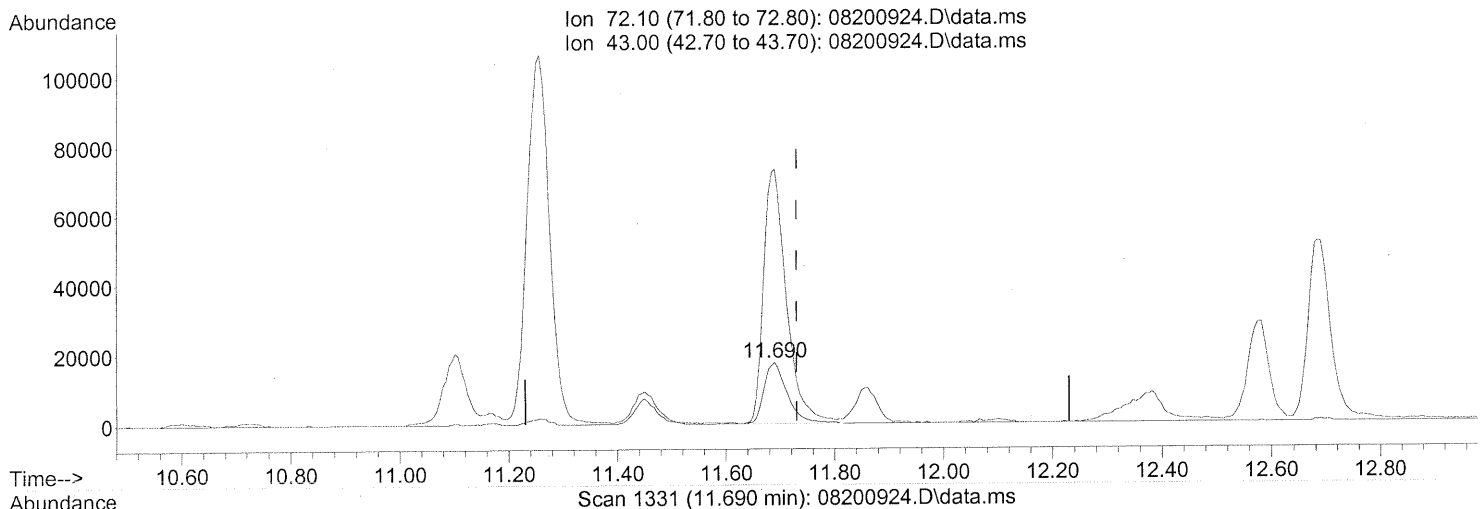
Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1484.89#
0.00	0.00	0.00
0.00	0.00	0.00

TP
DA 8/22/09 *8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 5.97ng

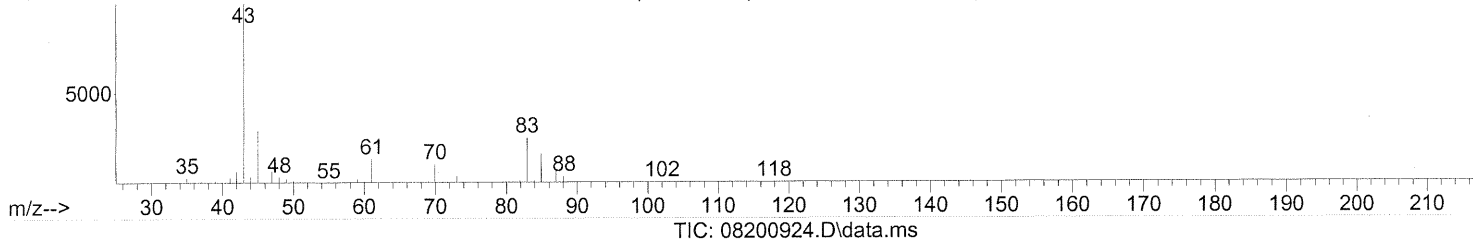
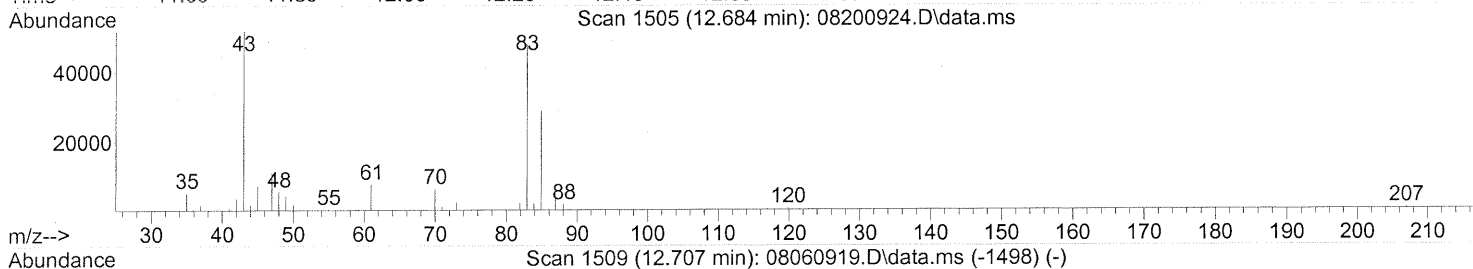
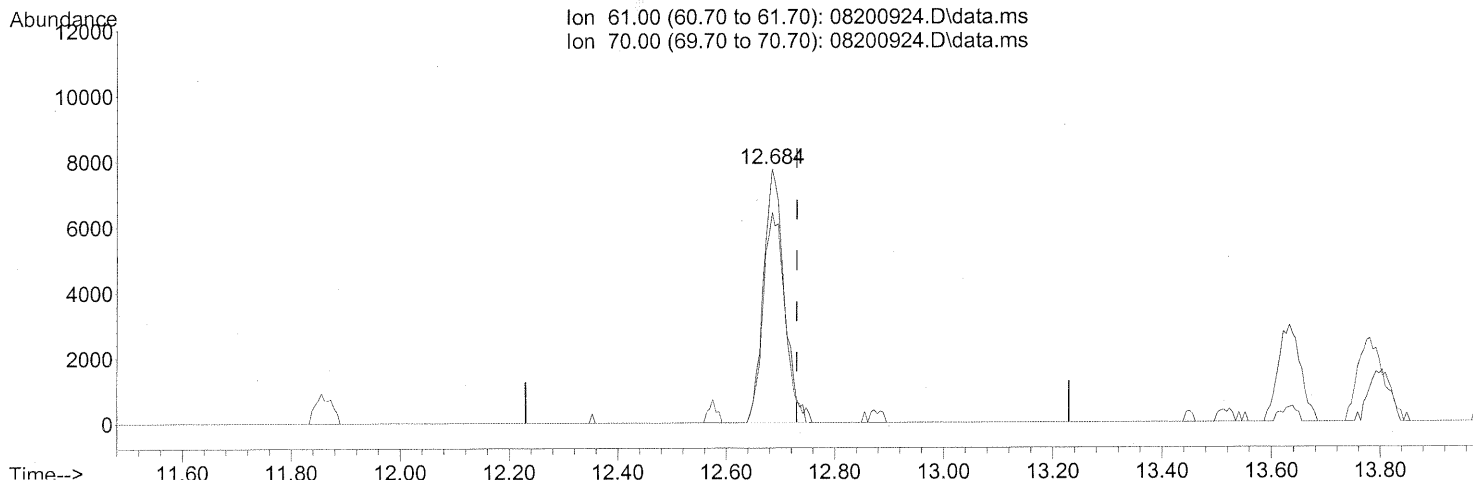
response 51365

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	416.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



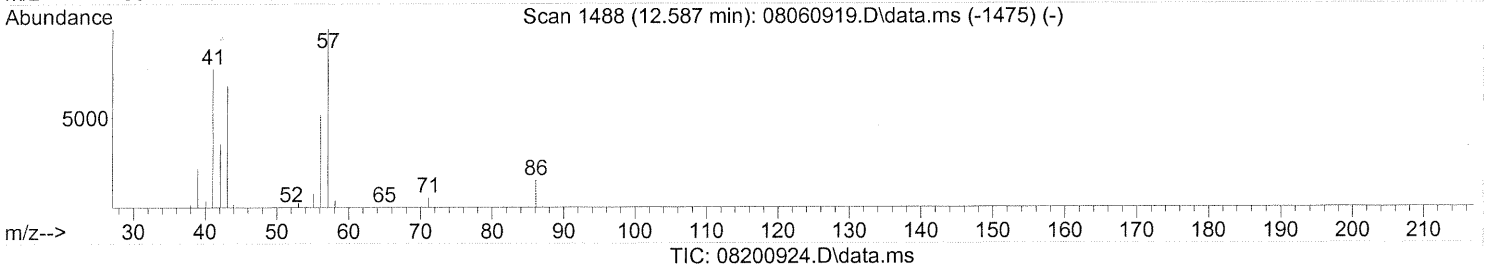
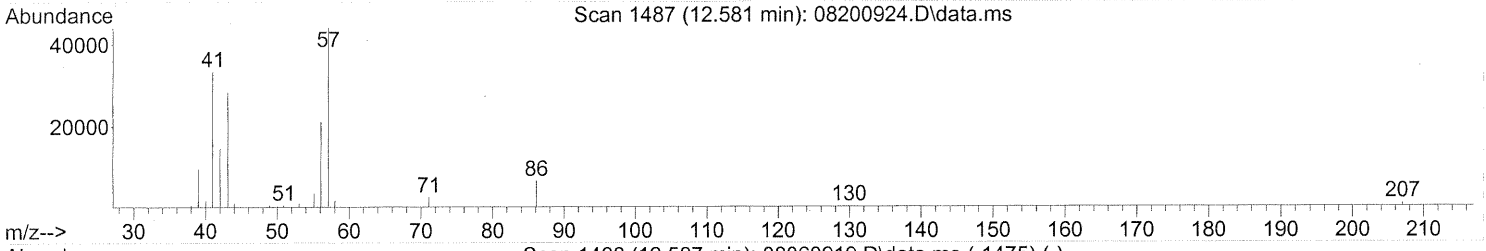
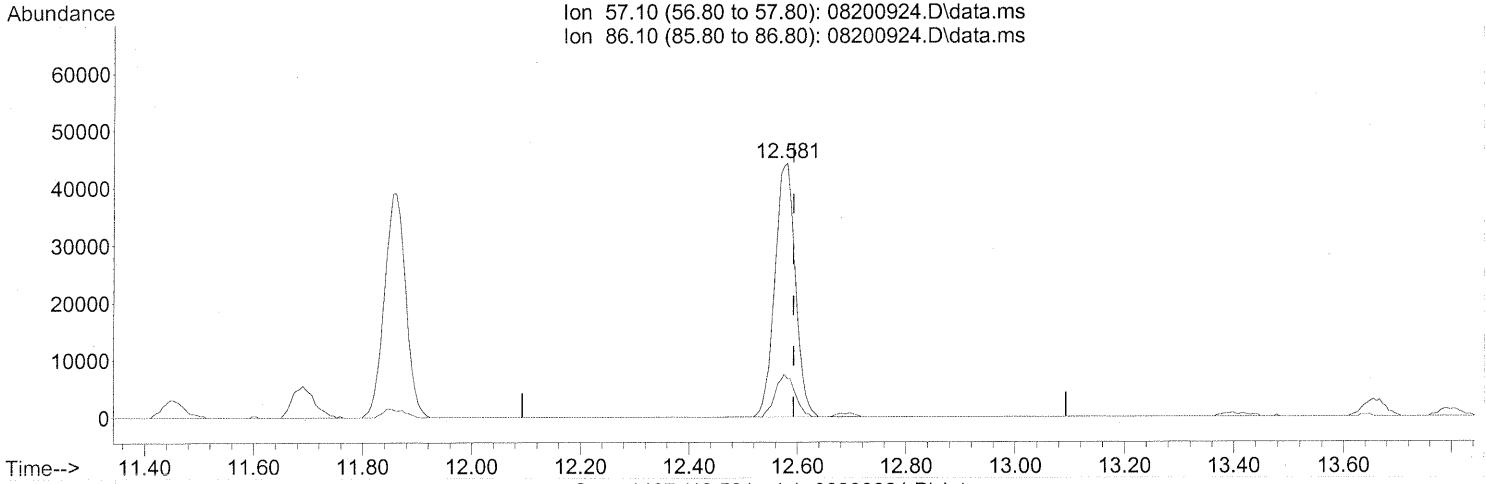
(30) Ethyl Acetate (T)
 12.684min (-0.046) 4.59ng
 response 20578

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	87.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



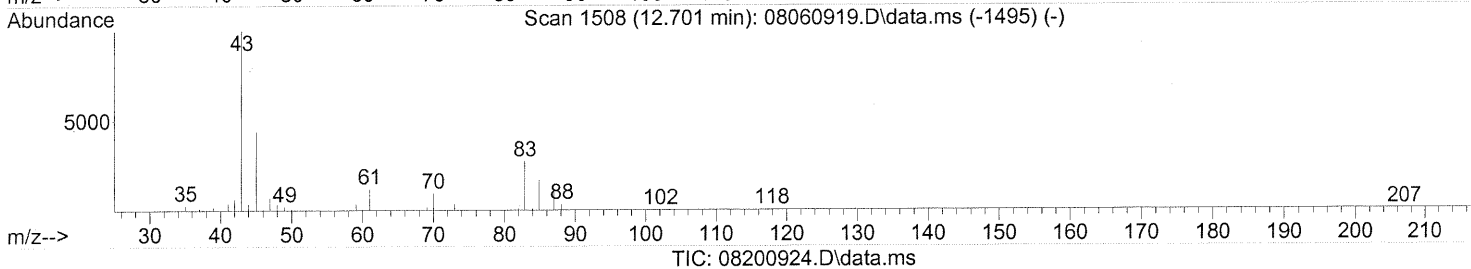
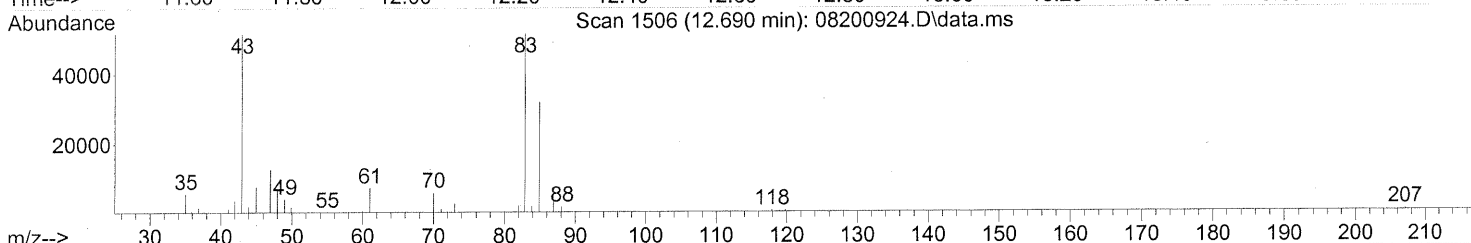
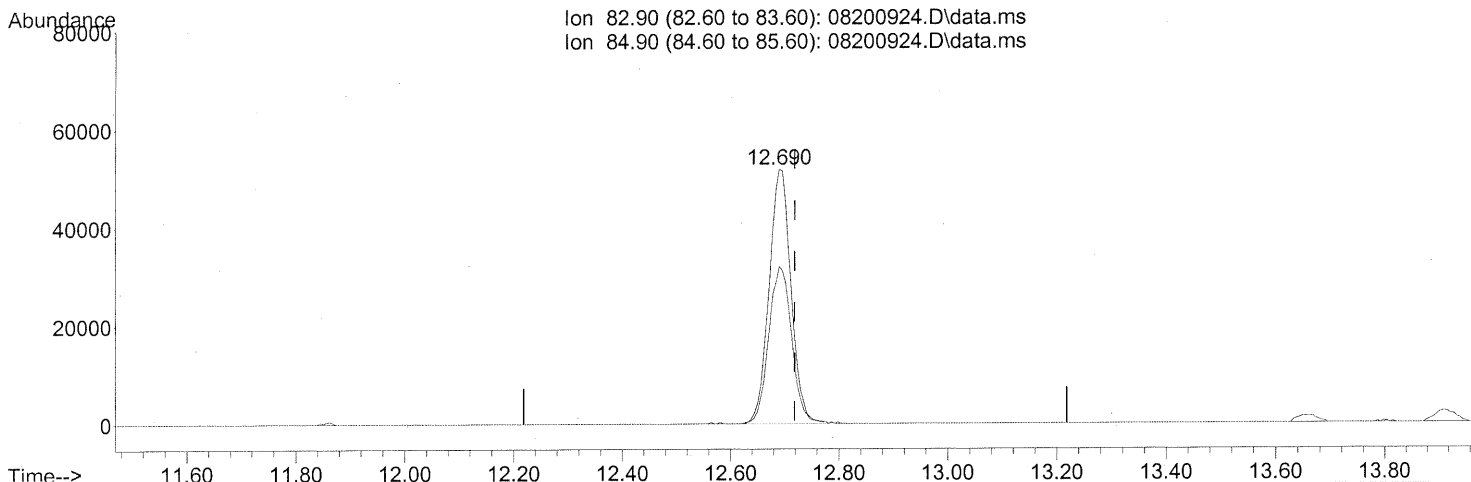
(31) n-Hexane (T)
12.581min (-0.011) 5.05ng
response 115648

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(32) Chloroform (T)

12.690min (-0.029) 7.23ng

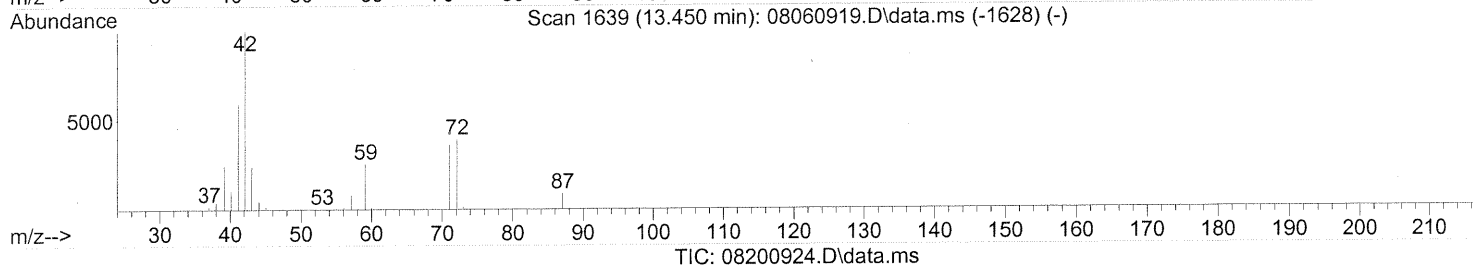
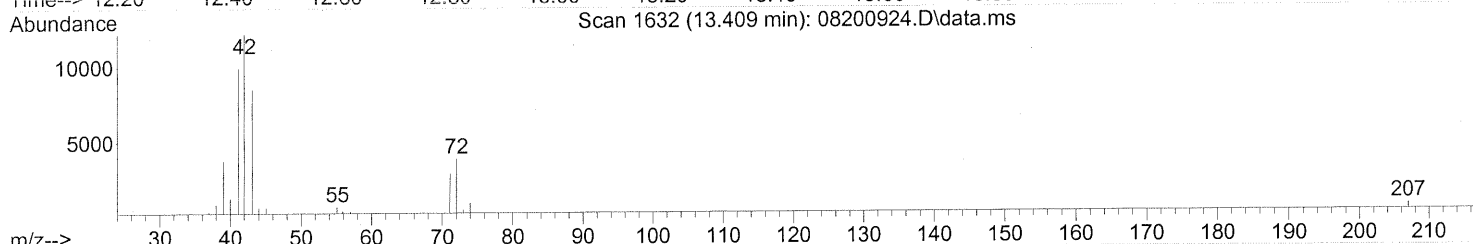
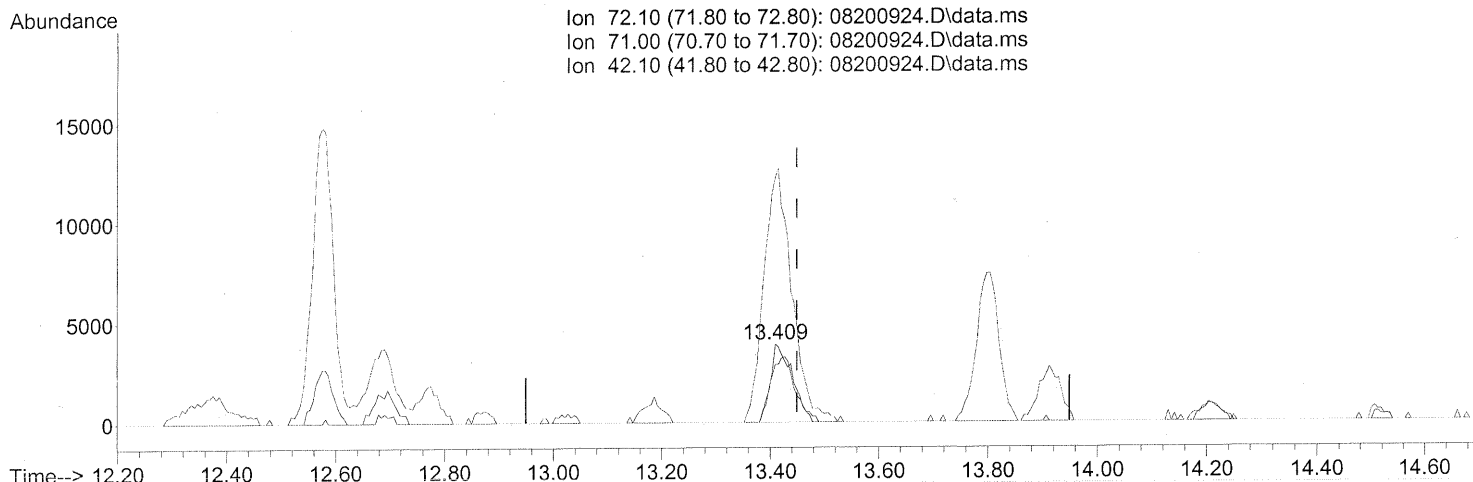
response 145930

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	64.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.409min (-0.040) 1.22ng

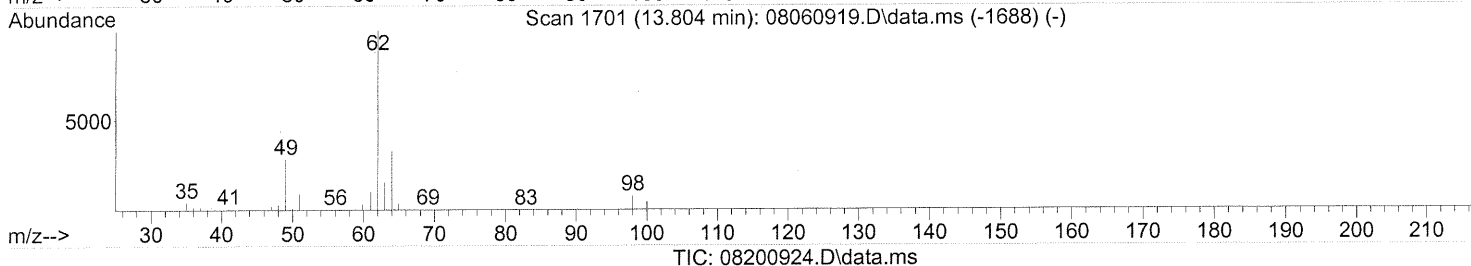
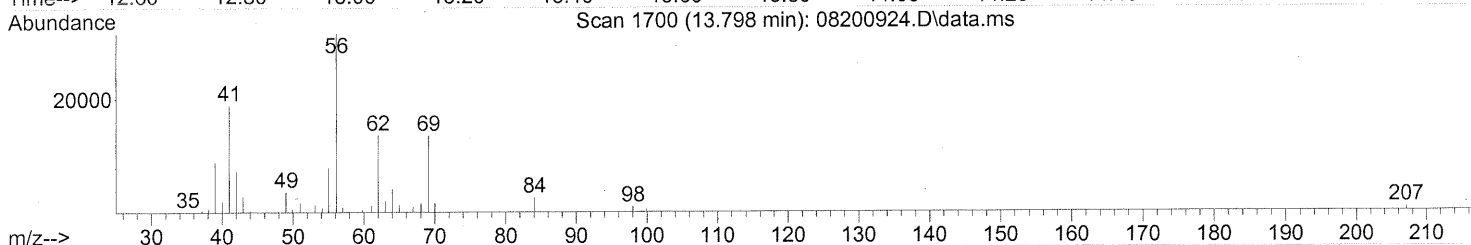
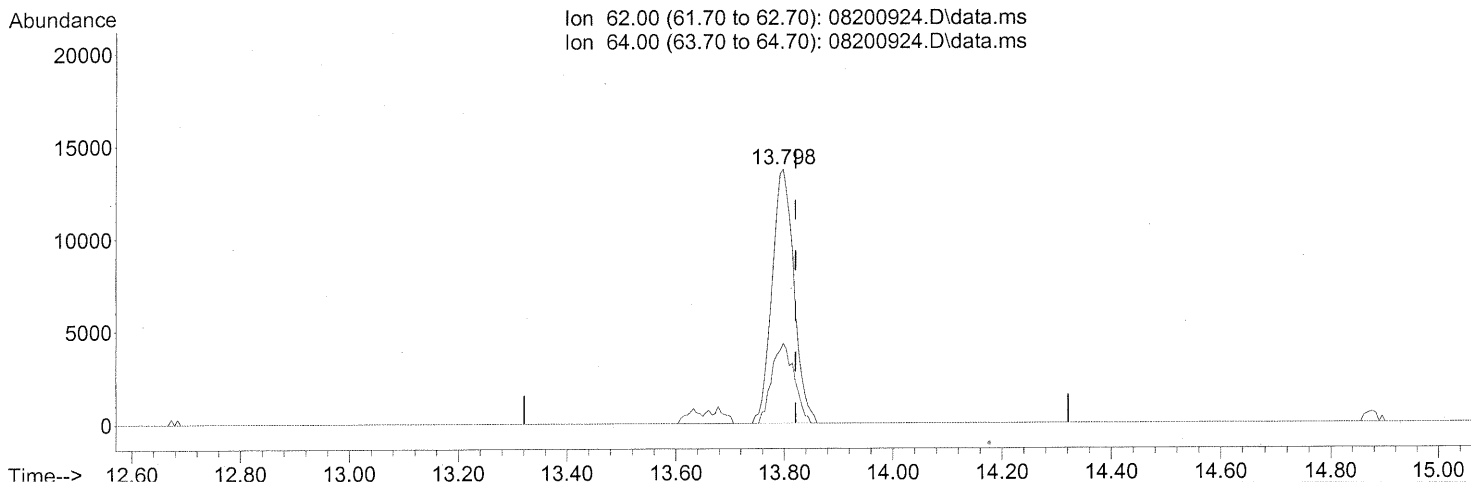
response 11157

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	89.37
42.10	253.40	408.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 2.09ng

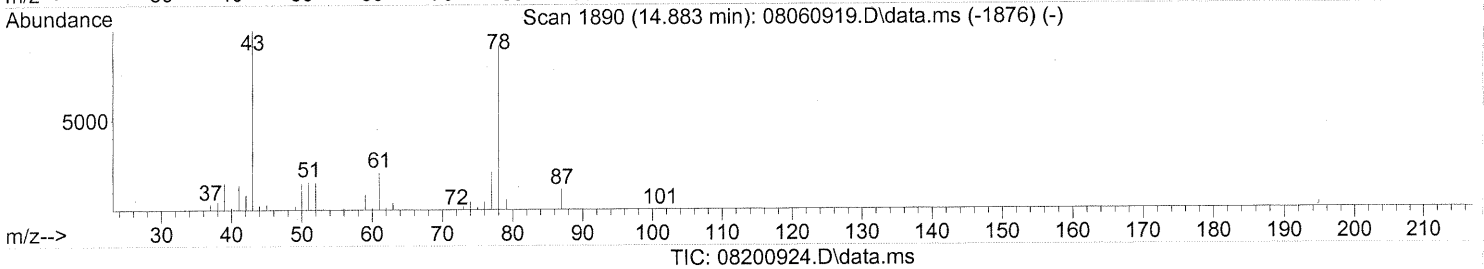
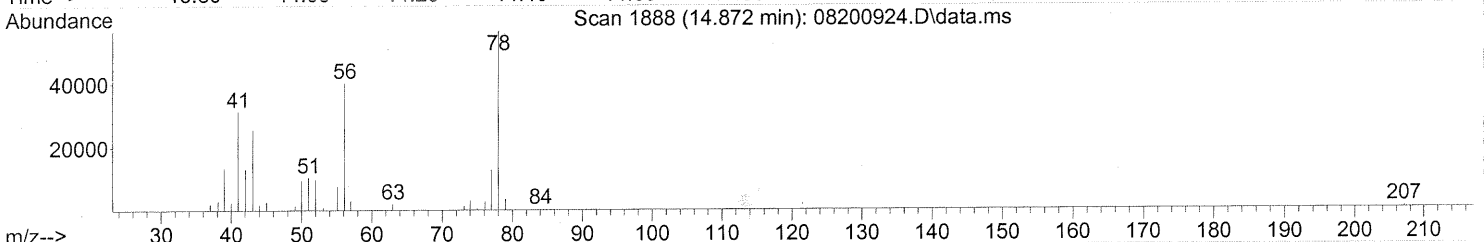
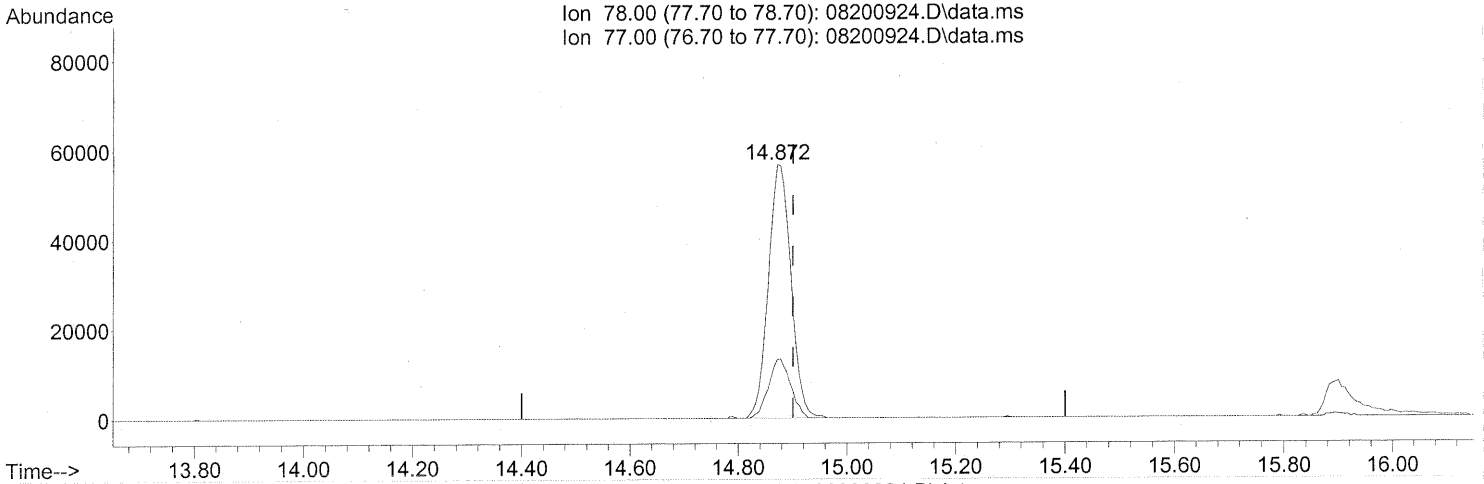
response 38554

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.029) 3.15ng

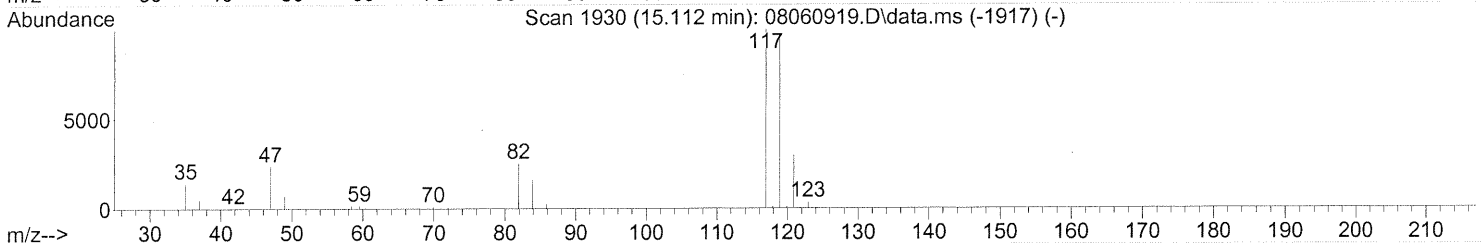
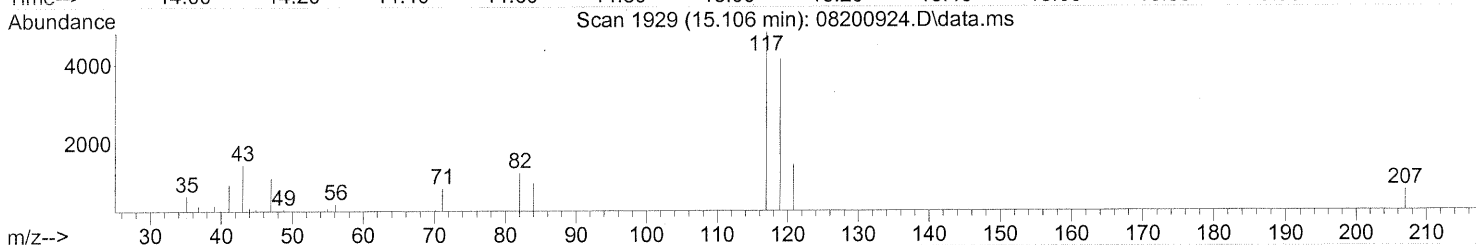
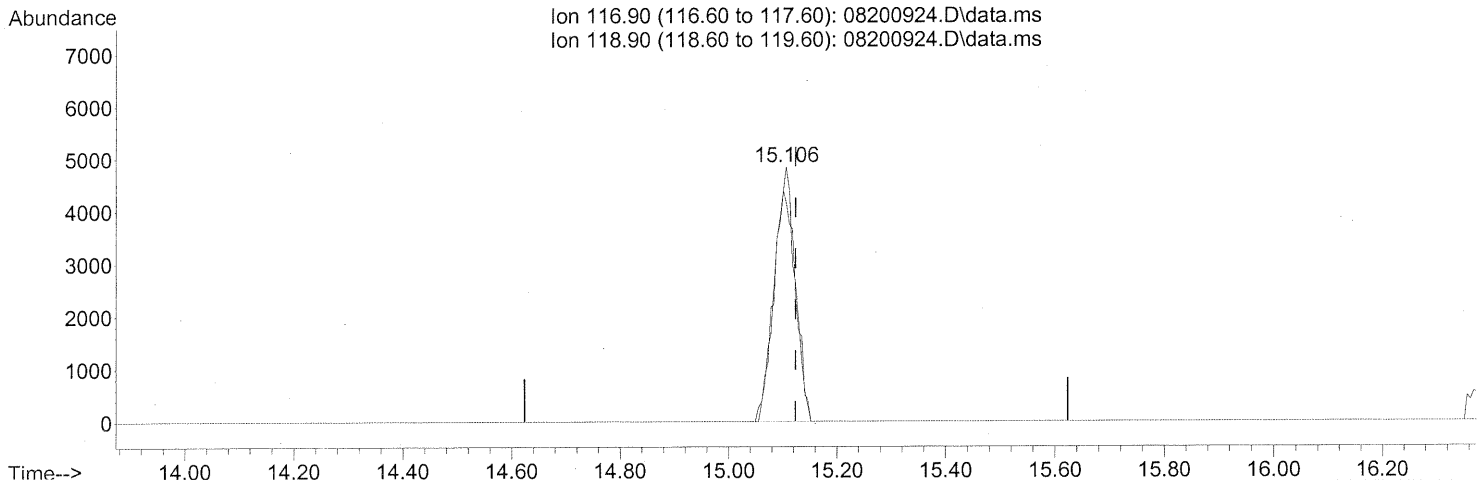
response 162688

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08200924.D\data.ms

(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.78ng

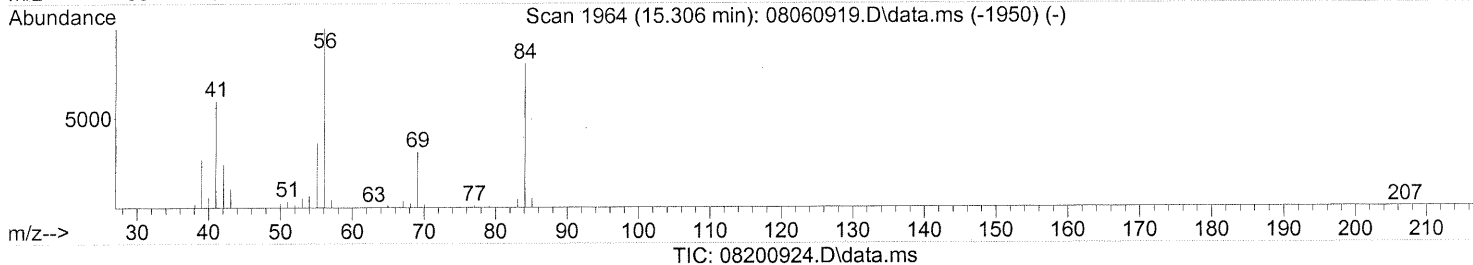
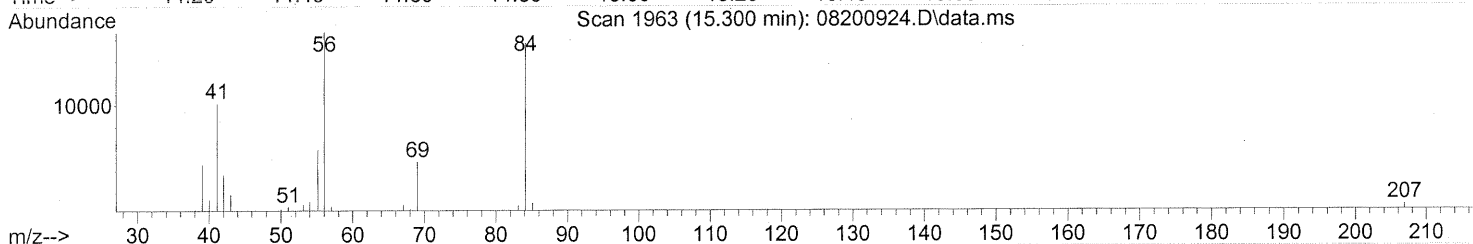
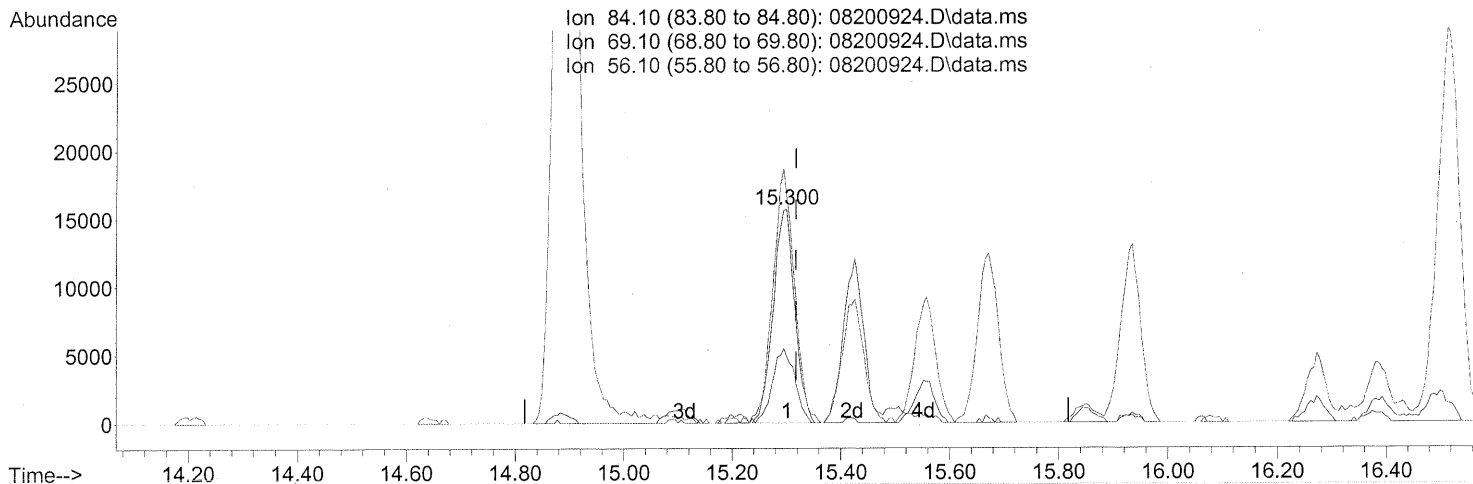
response 12852

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



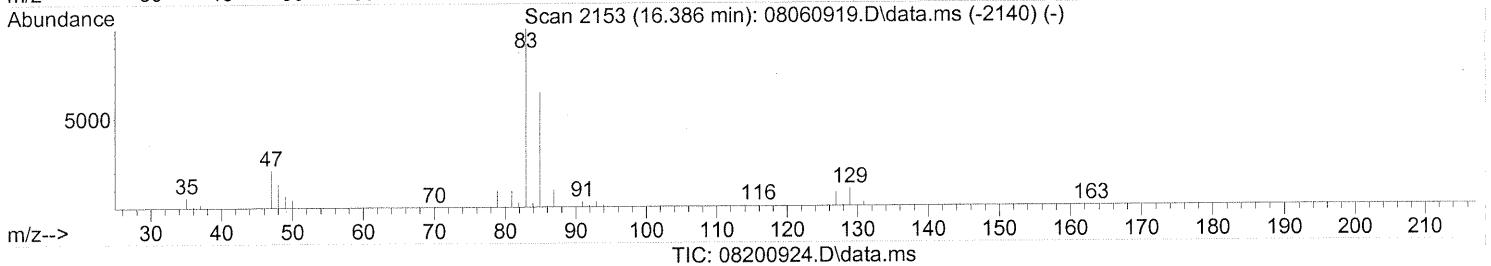
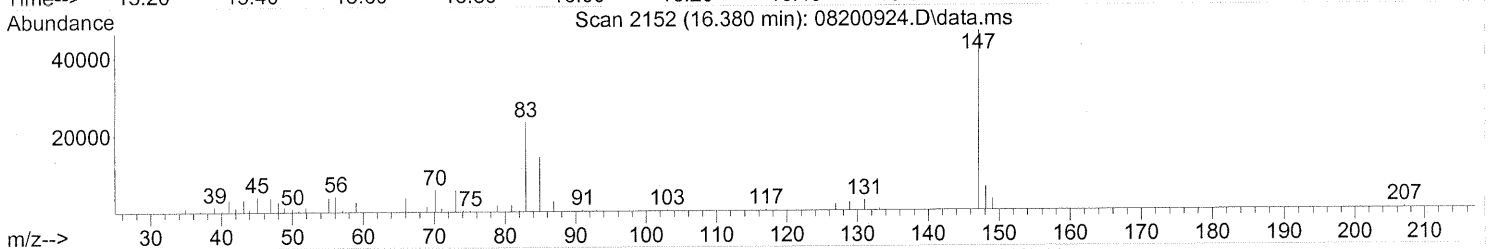
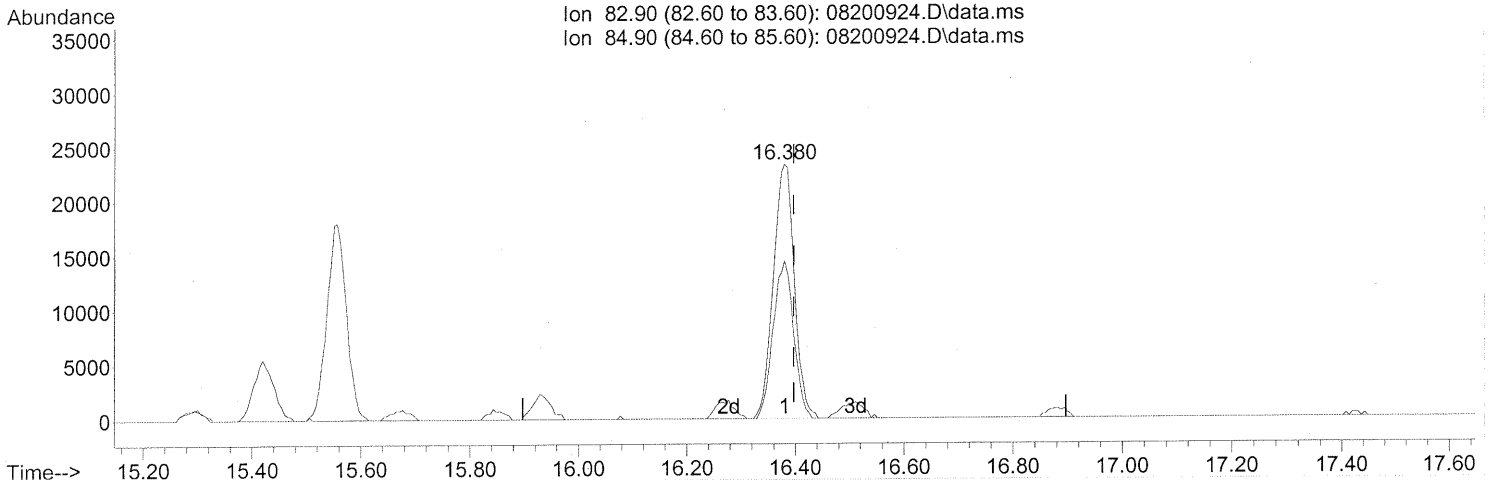
(43) Cyclohexane (T)
 15.300min (-0.017) 2.28ng
 response 43118

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	35.73
56.10	127.50	118.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 3.70ng

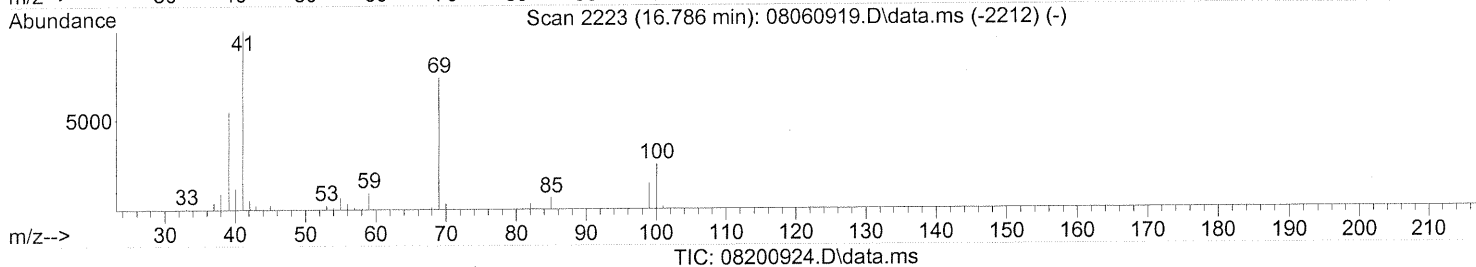
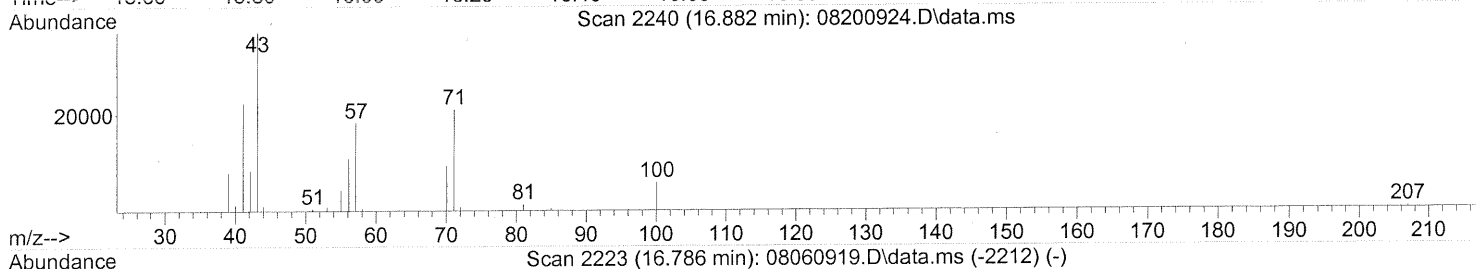
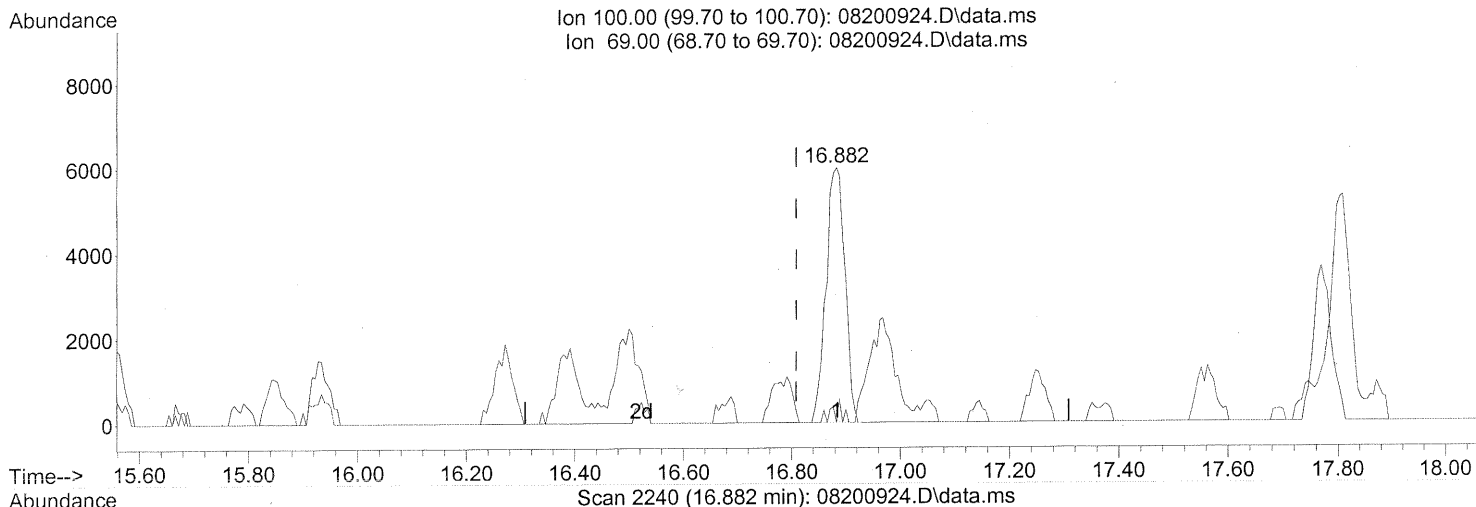
response 62983

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	60.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.882min (+0.074) 3.03ng

response 14385

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	2.31#
0.00	0.00	0.00
0.00	0.00	0.00

FP

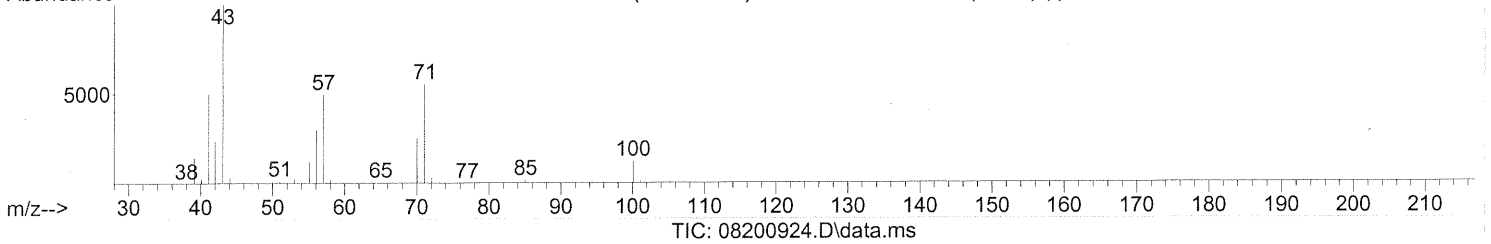
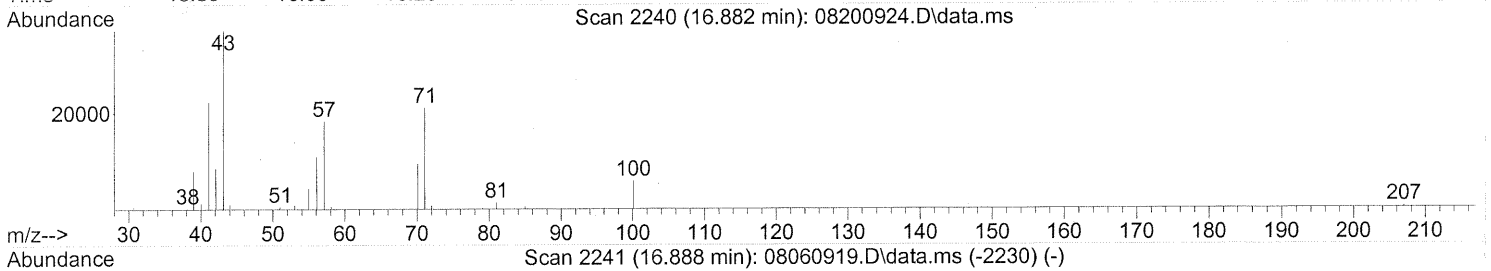
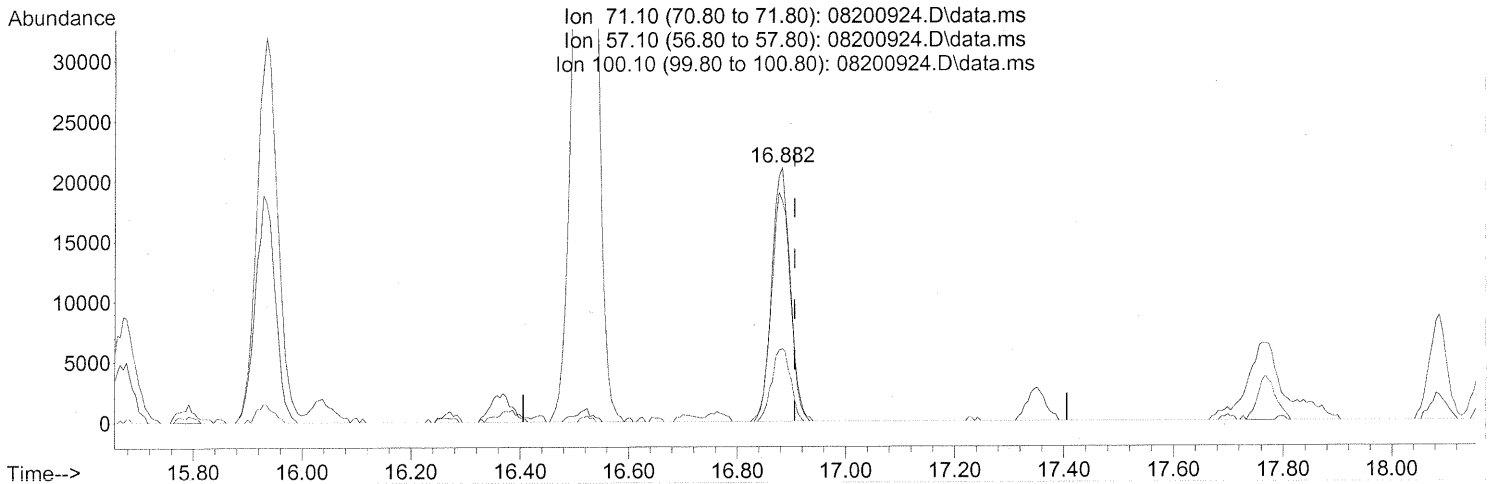
WA 8/22/09

— 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



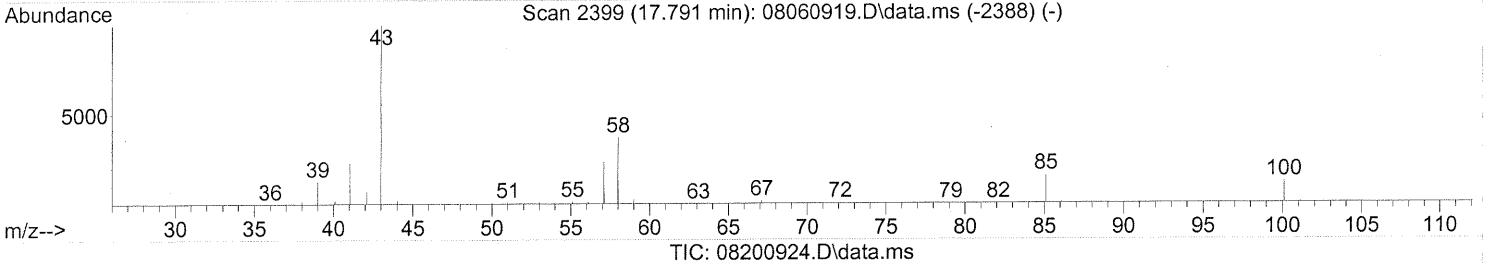
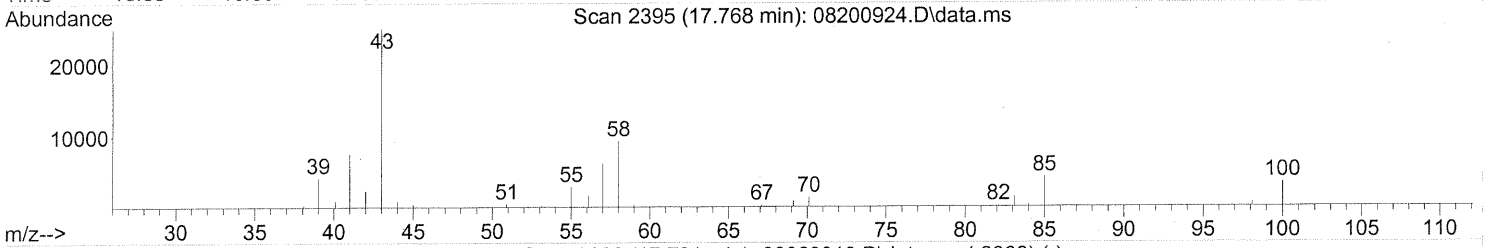
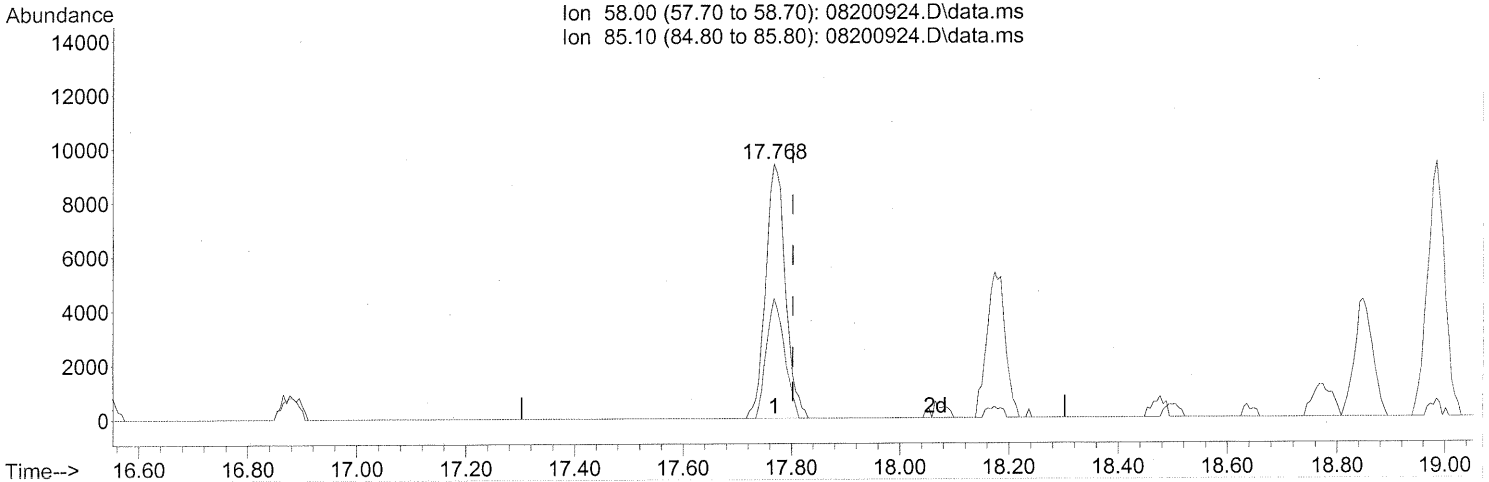
(51) n-Heptane (T)
 16.882min (-0.023) 3.59ng
 response 49740

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	91.23
100.10	26.40	28.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (-0.034) 1.91ng

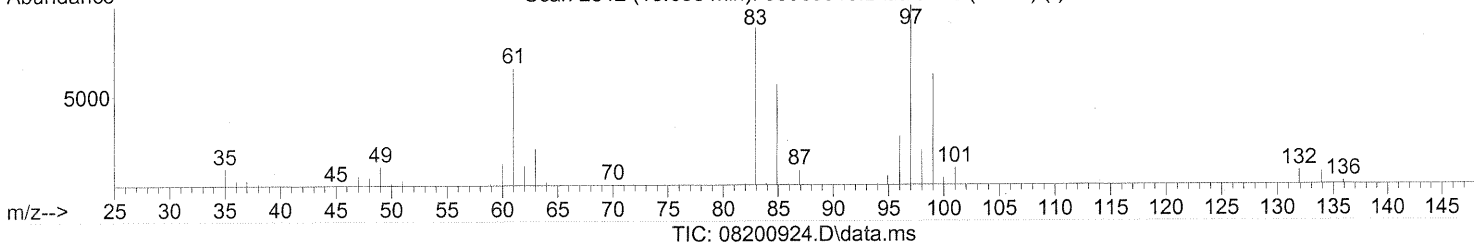
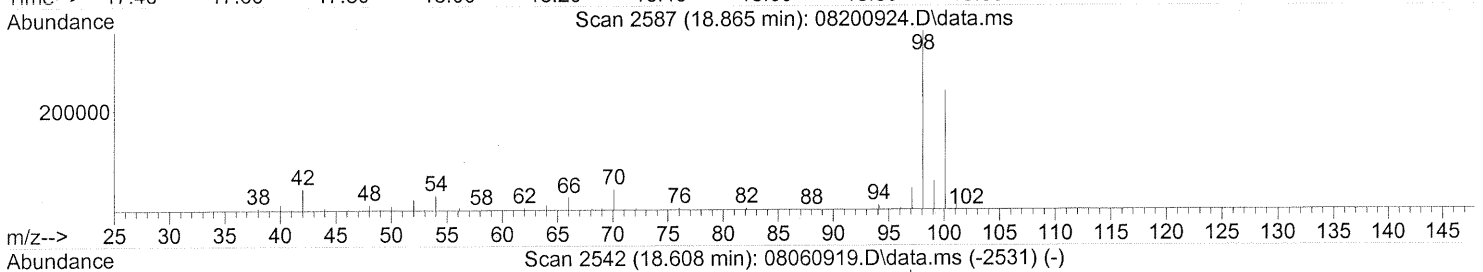
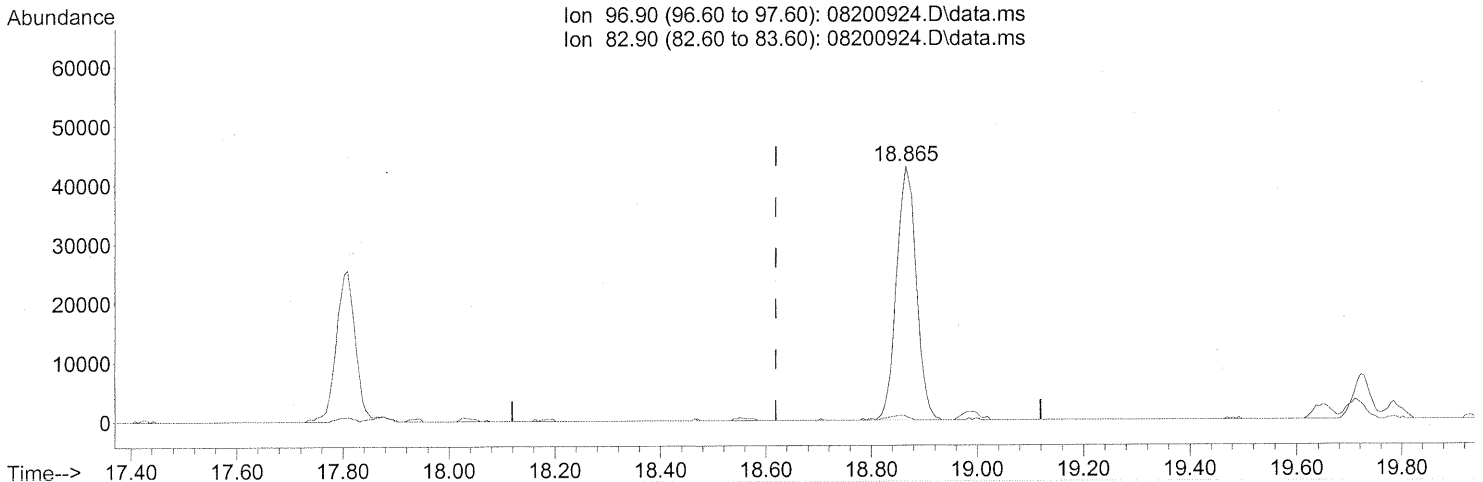
response 23755

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.84ng

response 111497

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.72#
0.00	0.00	0.00
0.00	0.00	0.00

TP

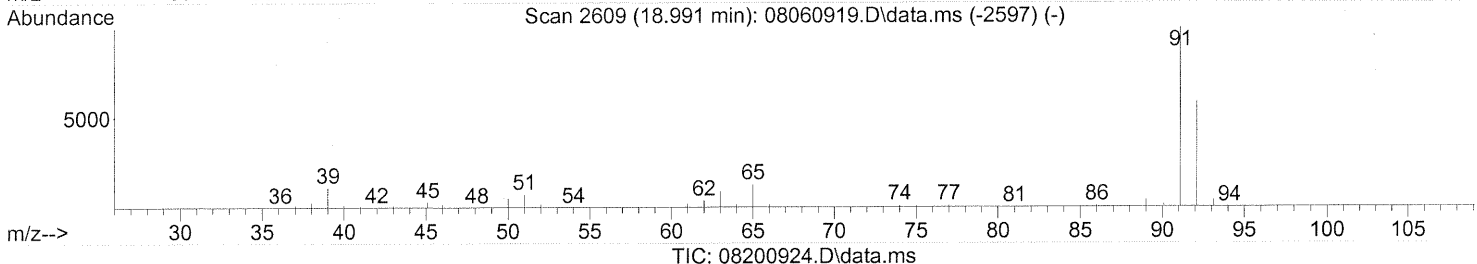
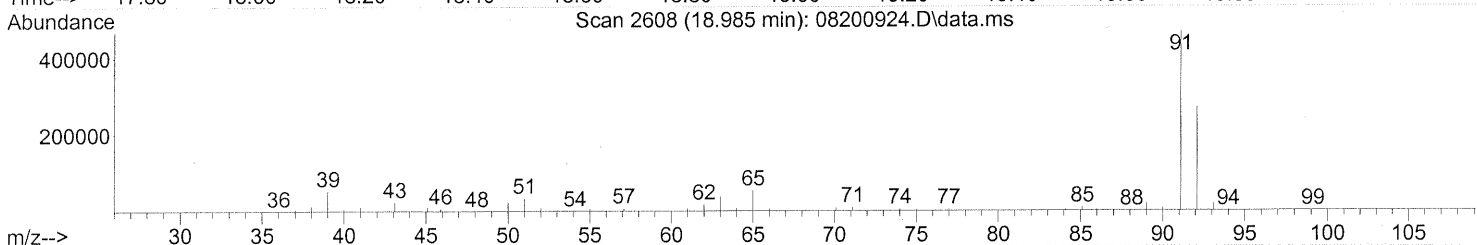
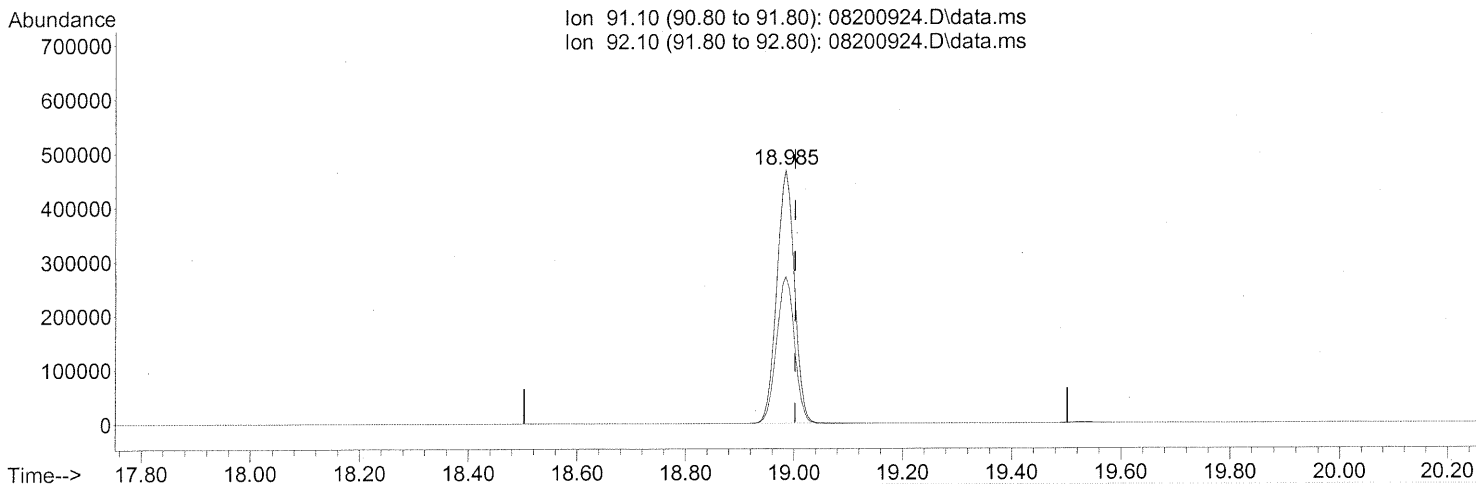
WA 8/22/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

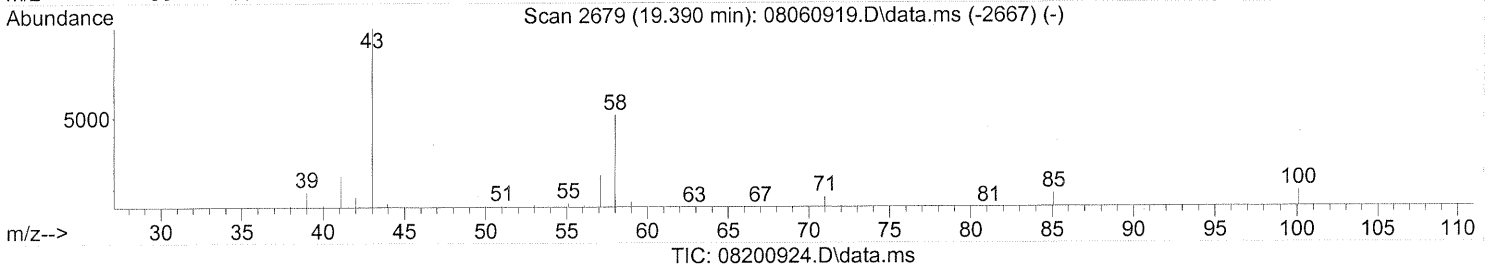
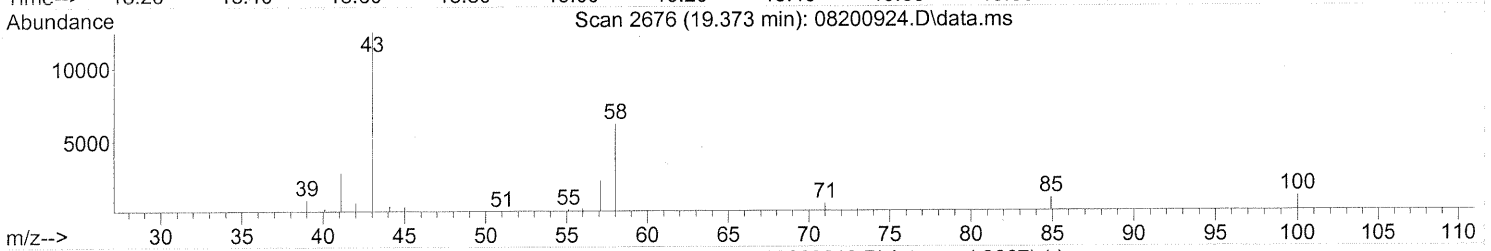
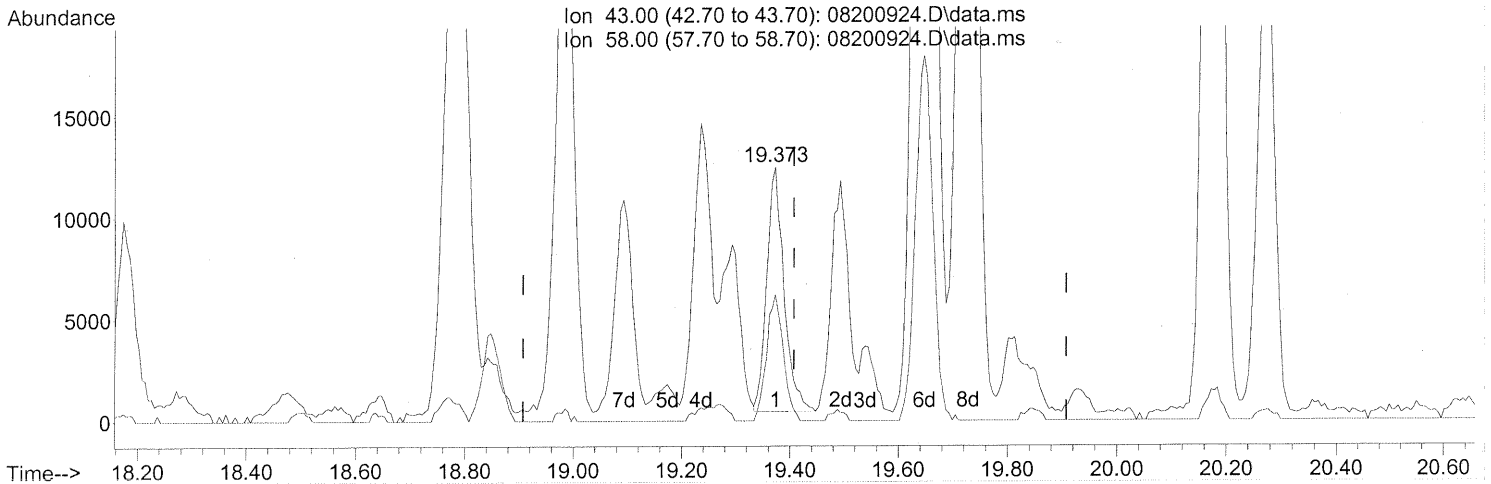


(58) Toluene (T)
18.985min (-0.017) 21.99ng
response 1060800
Ion Exp% Act%
91.10 100 100
92.10 58.60 58.91
0.00 0.00 0.00
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



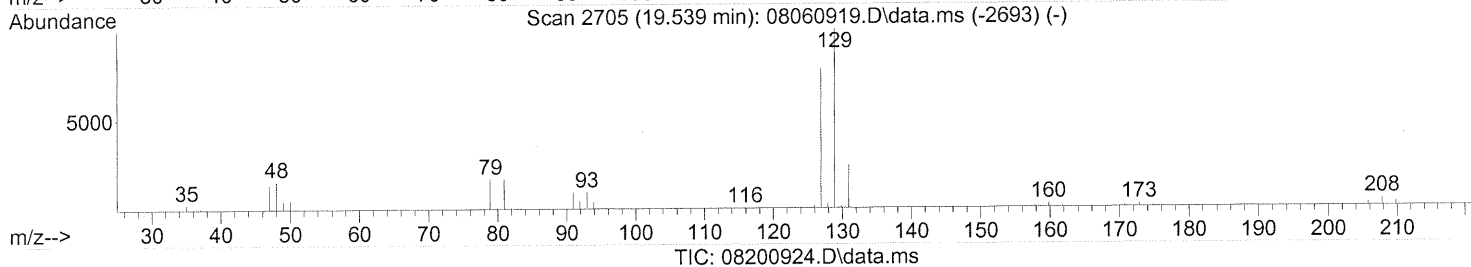
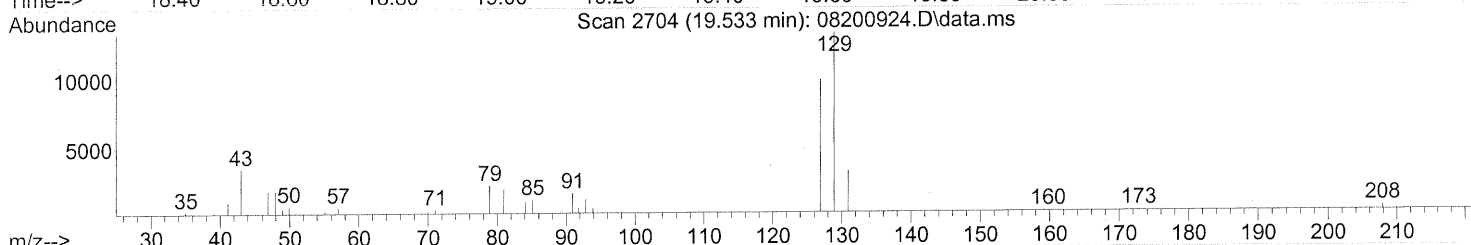
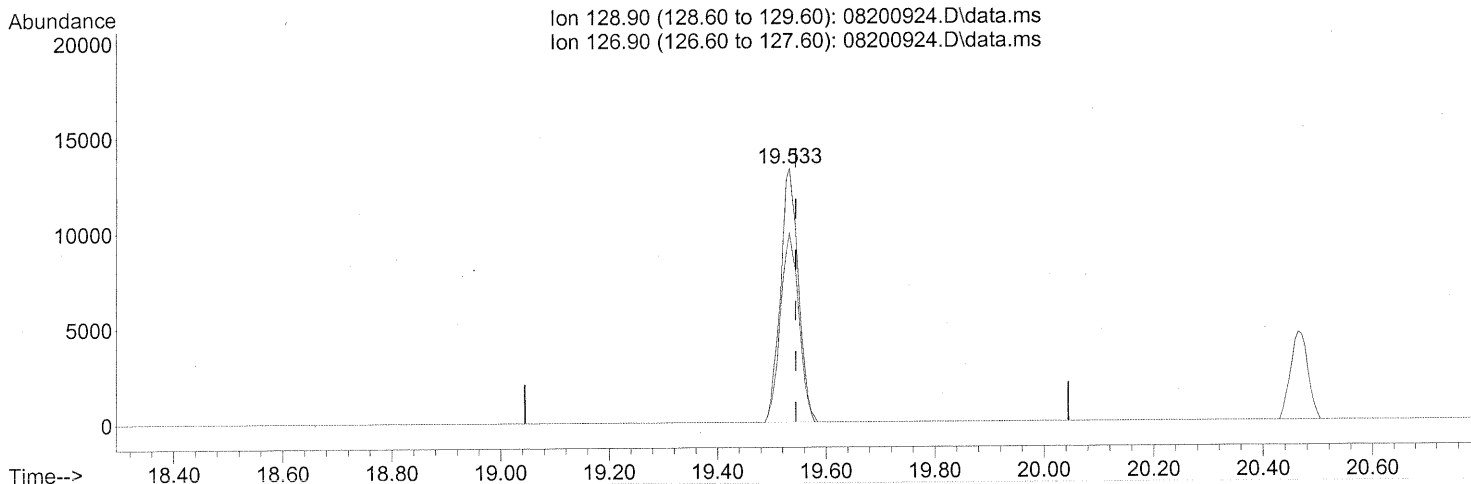
(59) 2-Hexanone (T)
 19.373min (-0.034) 0.84ng
 response 26937

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	49.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 2.67ng

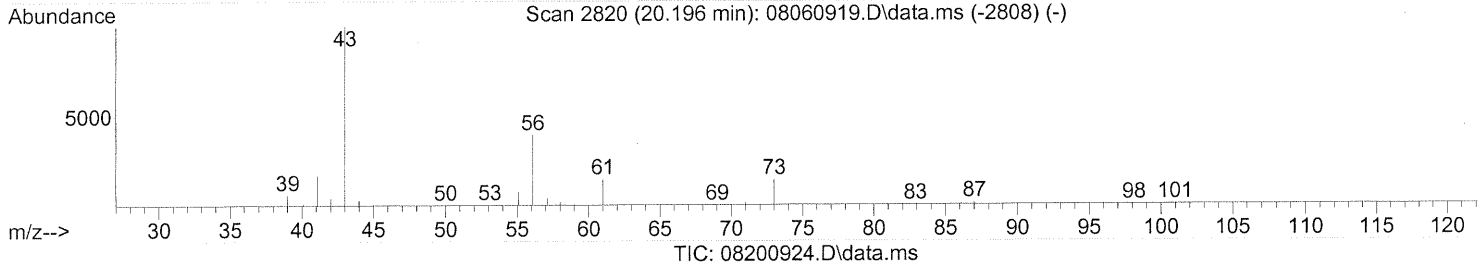
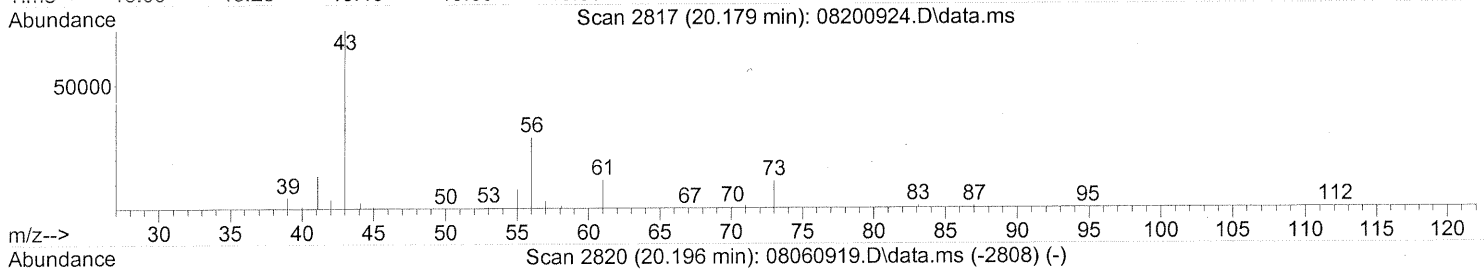
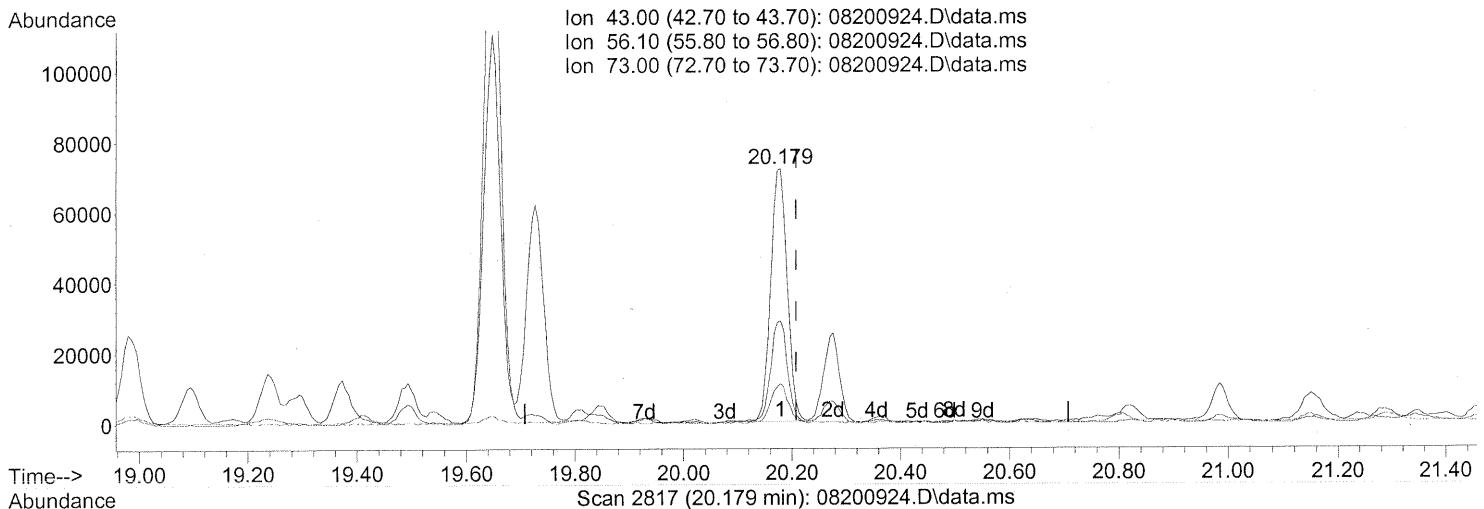
response 30431

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	76.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



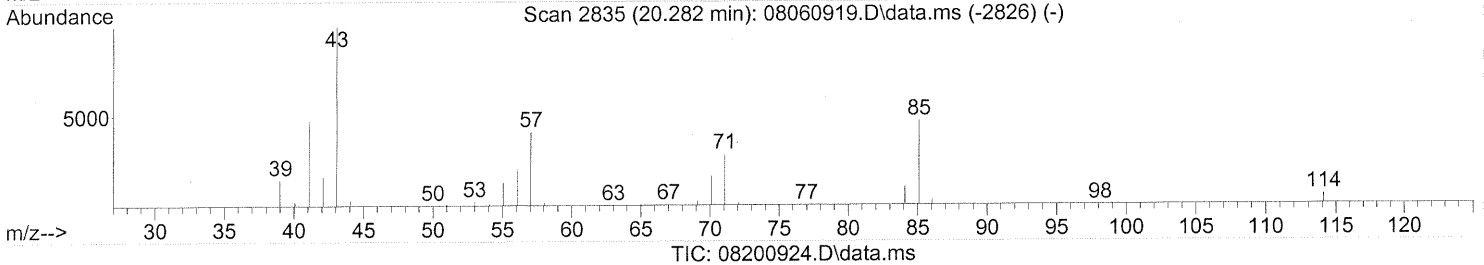
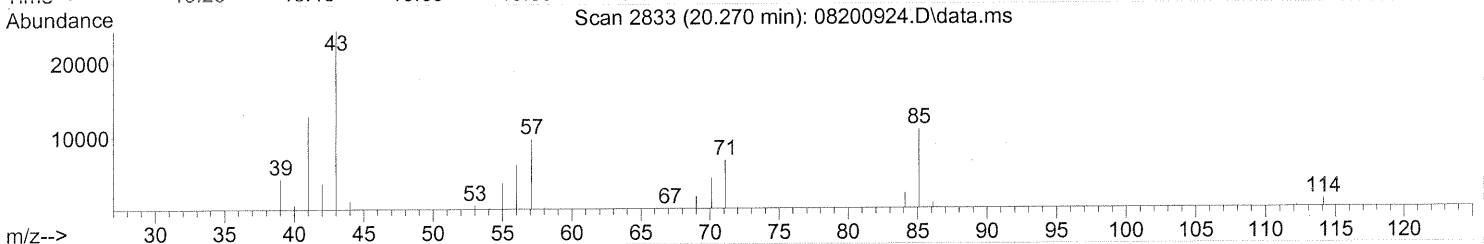
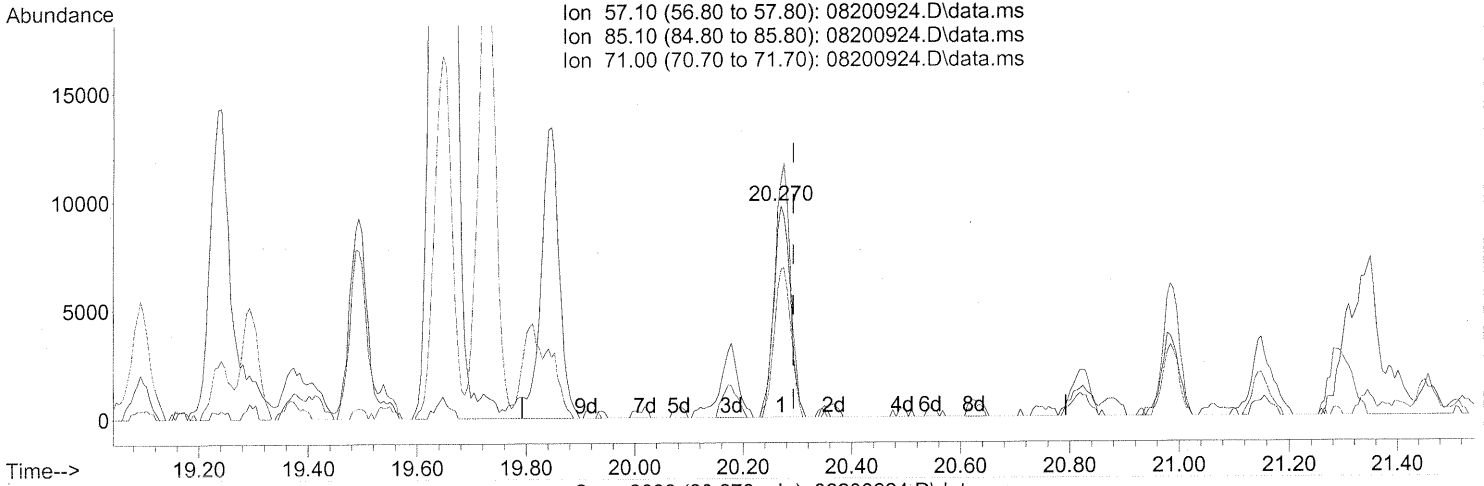
(62) n-Butyl Acetate (T)
 20.179min (-0.029) 4.01ng
 response 151699

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	42.11
73.00	14.80	16.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 1.77ng

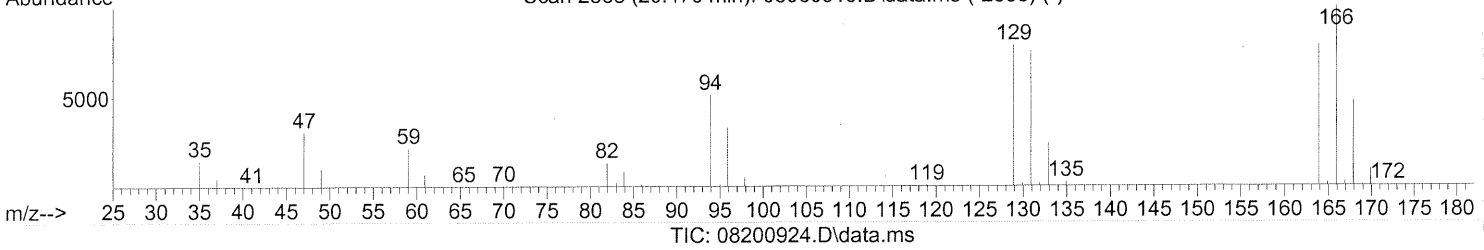
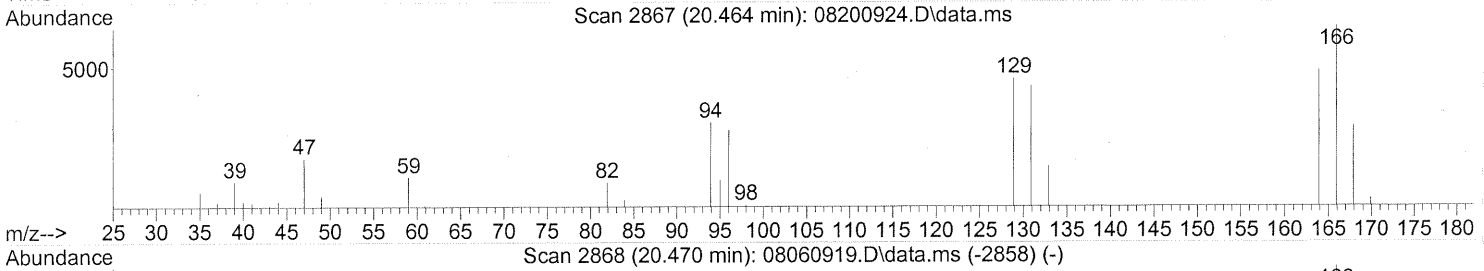
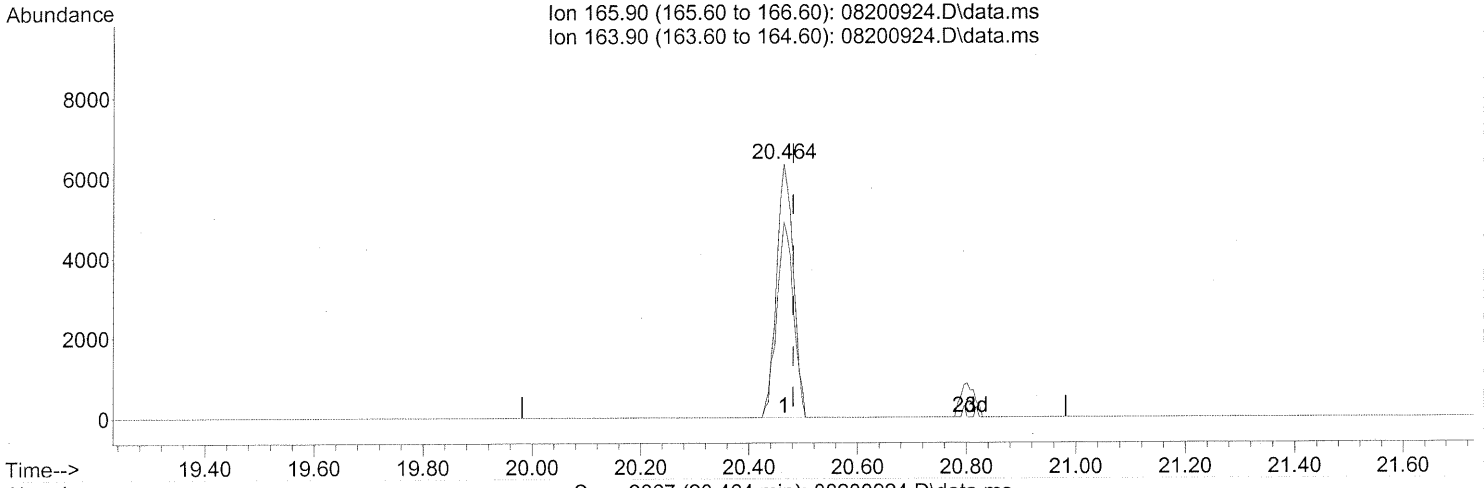
response 20649

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	114.62
71.00	68.10	71.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 1.23ng

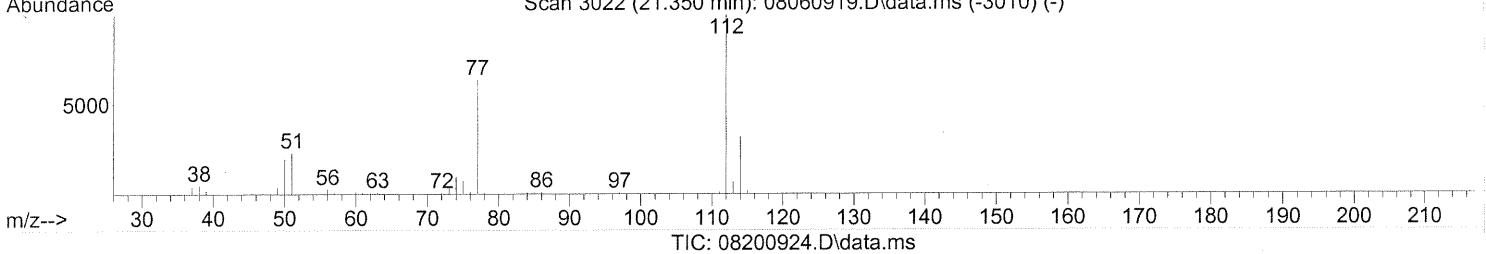
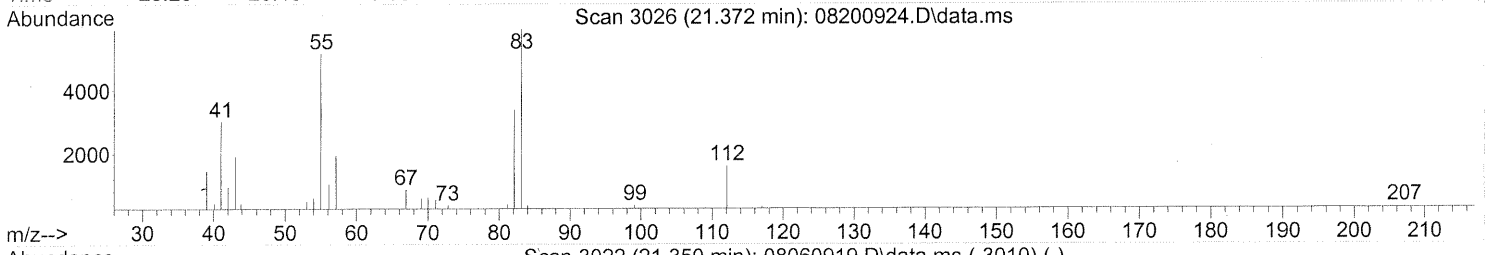
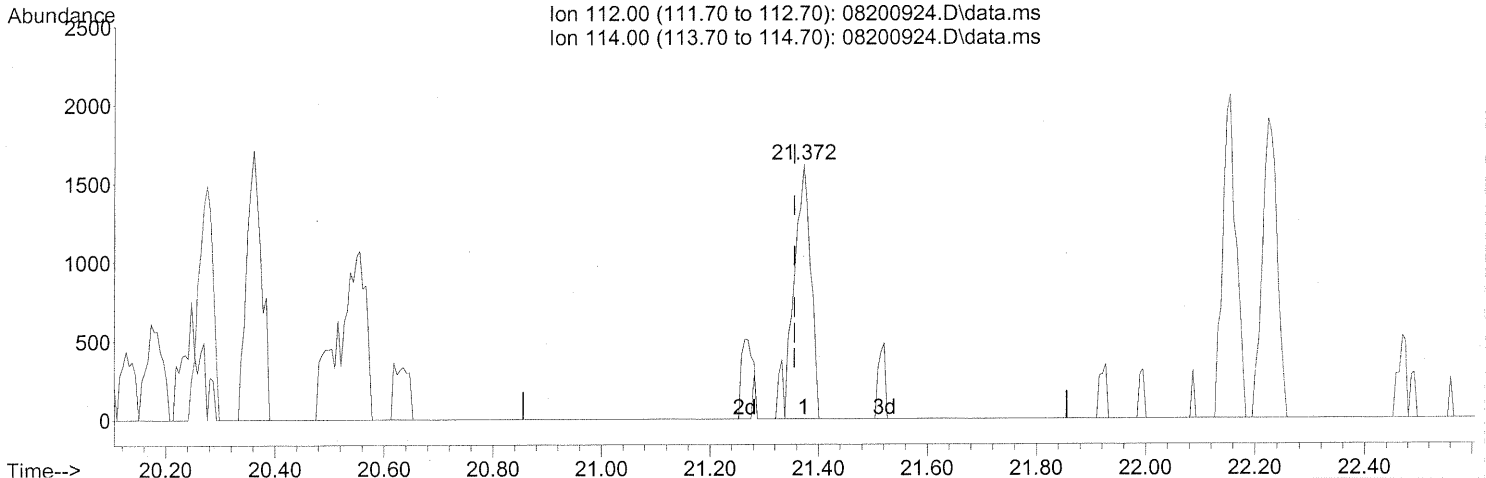
response 13729

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	75.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.372min (+0.017) 0.12ng
 response 3602

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

70

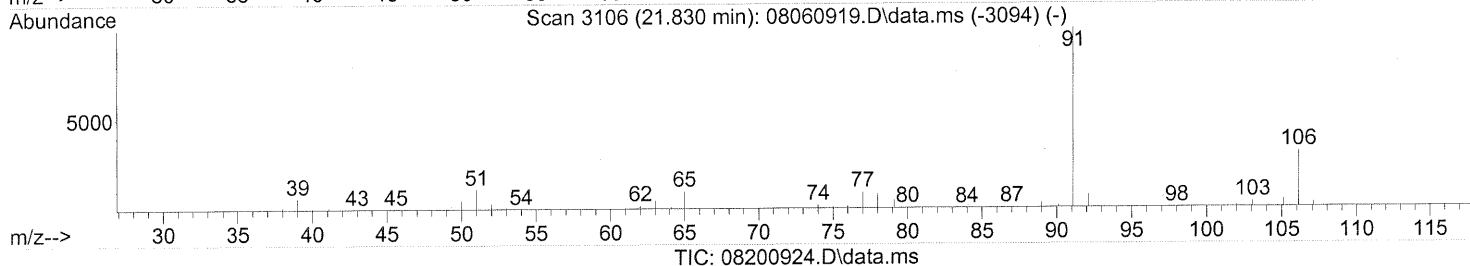
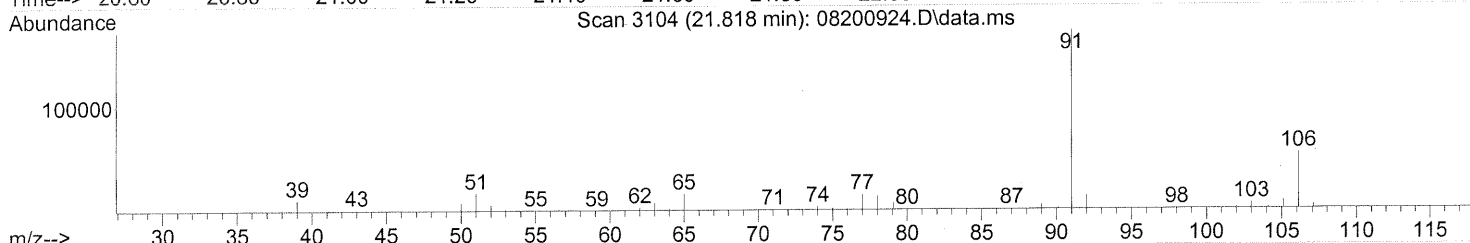
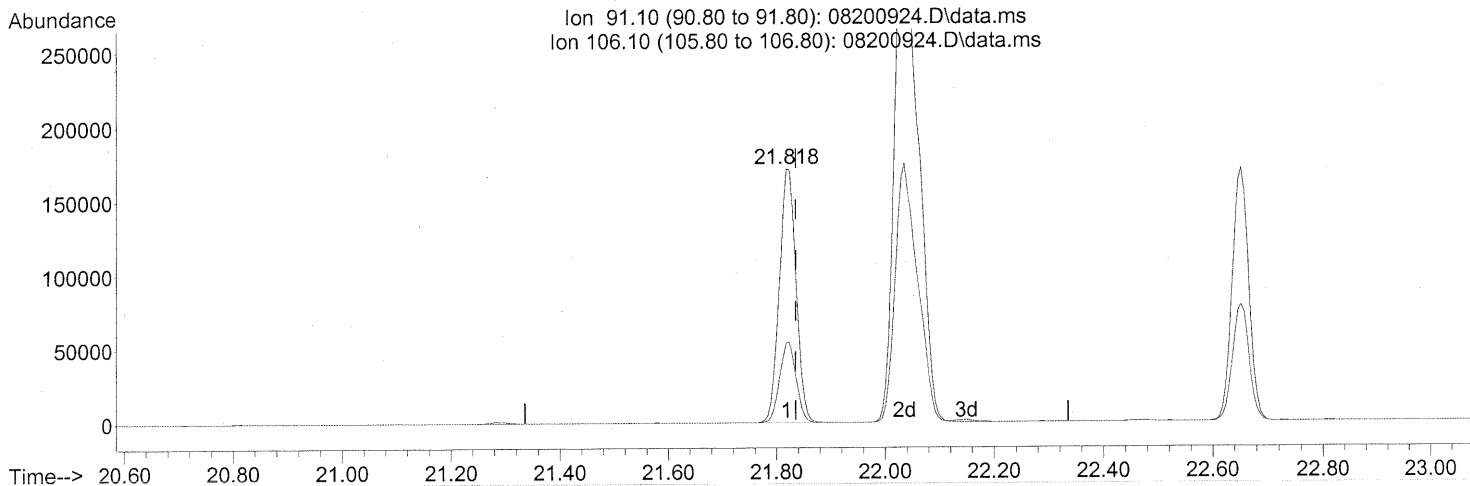
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.818min (-0.017) 6.61ng

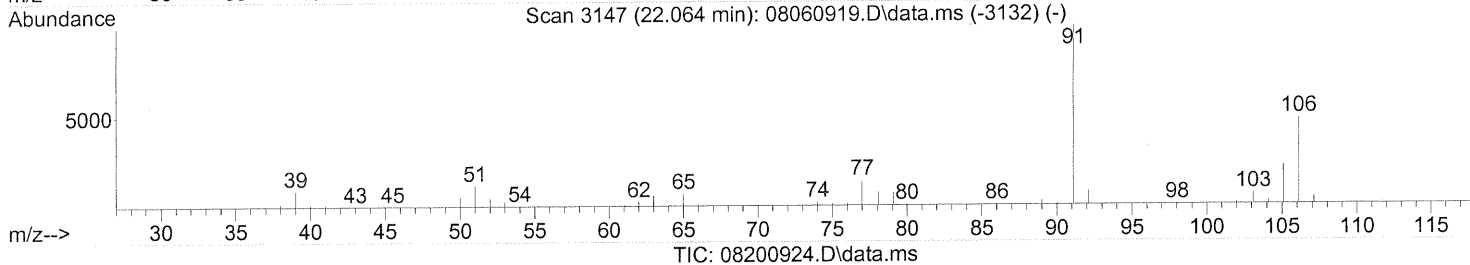
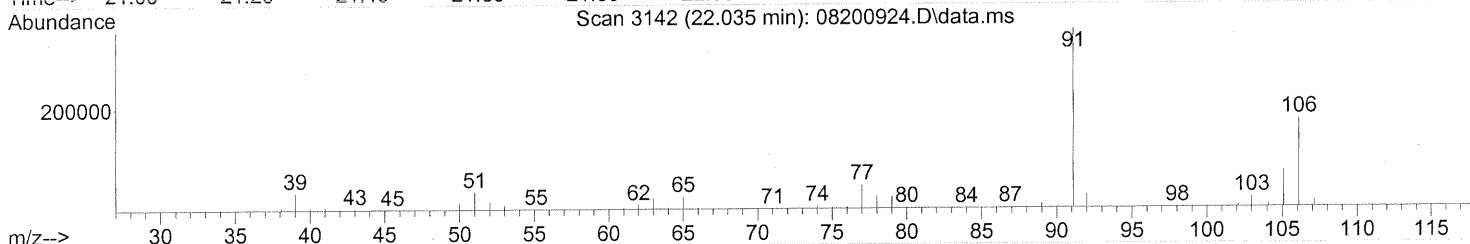
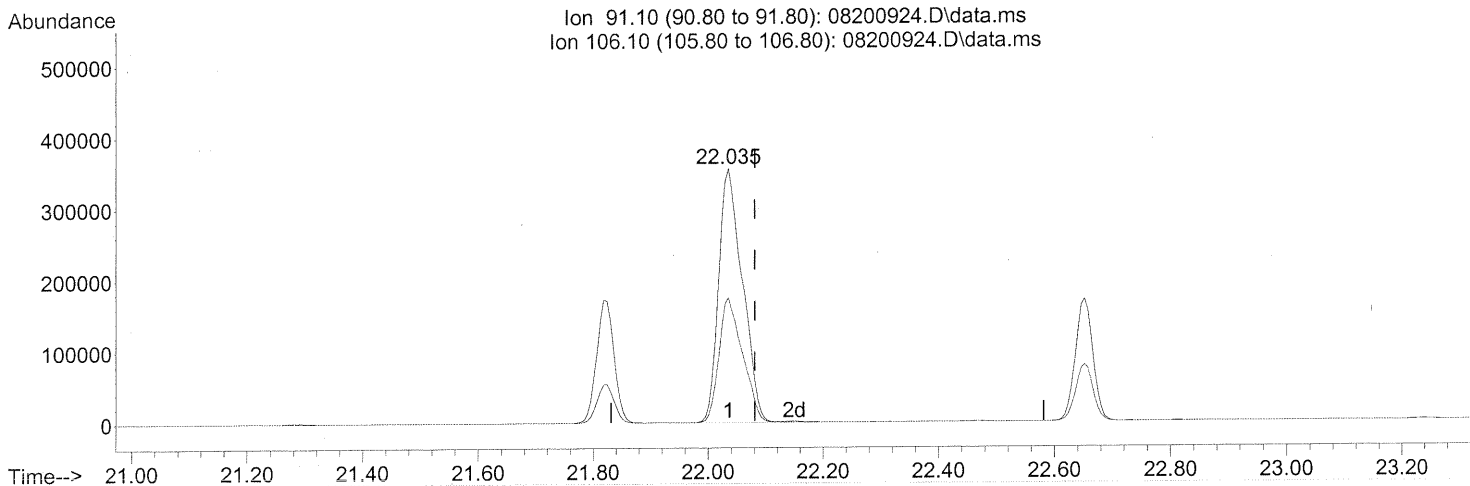
response 364505

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 22.86ng

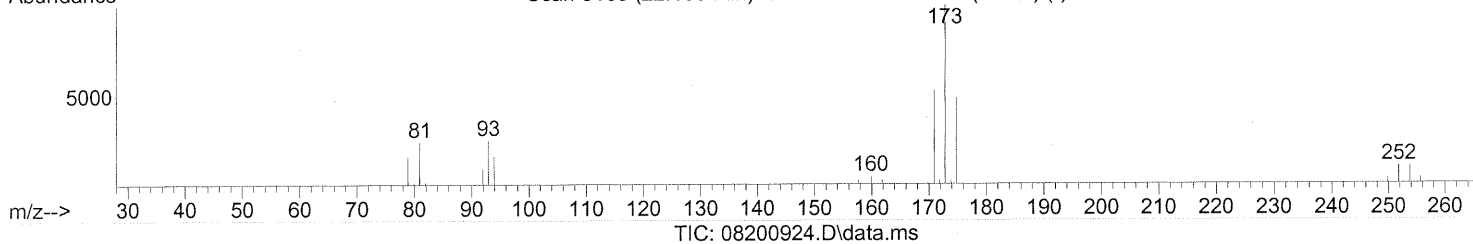
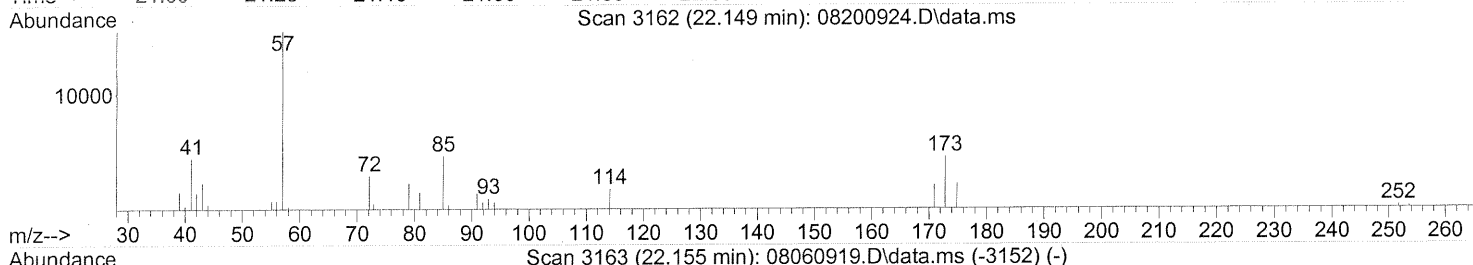
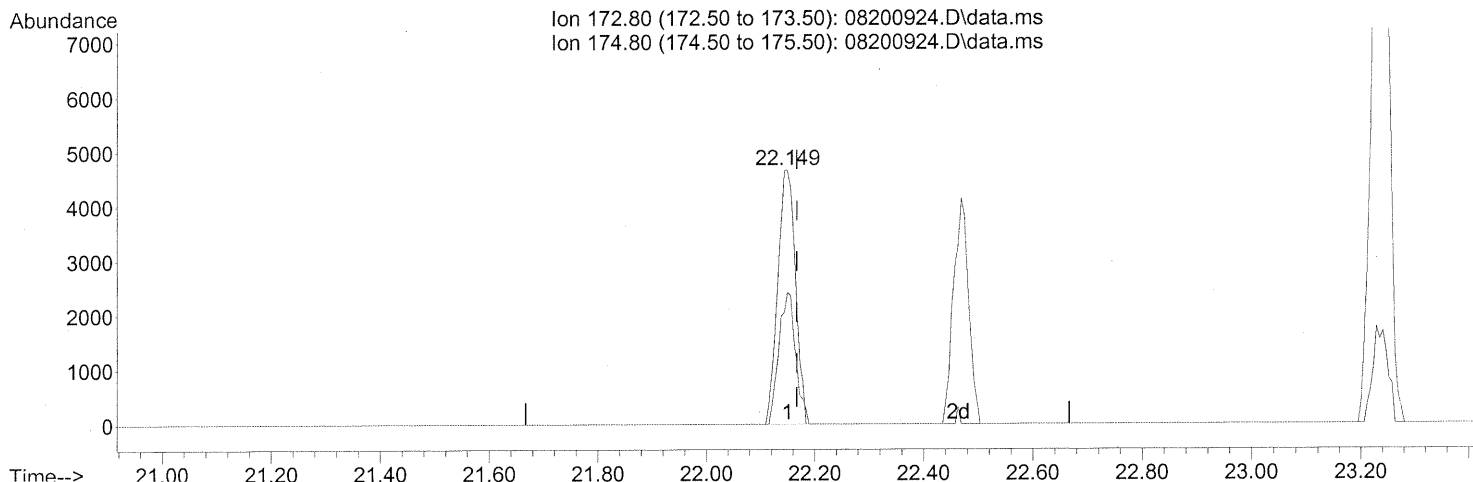
response 1020015

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



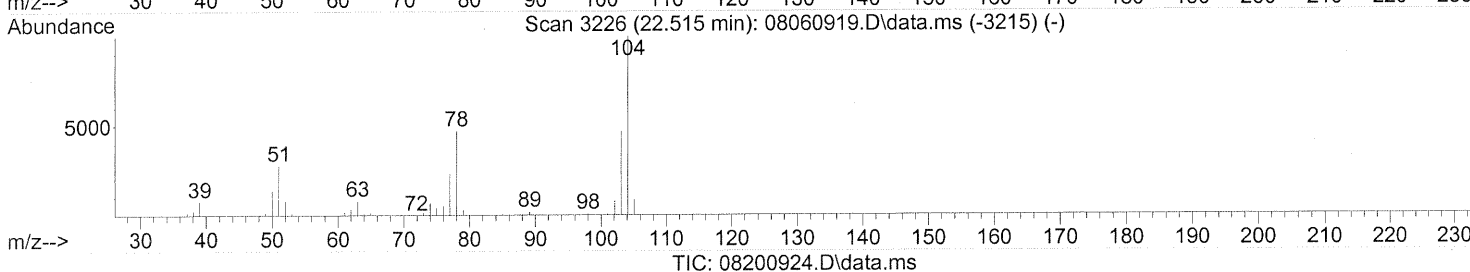
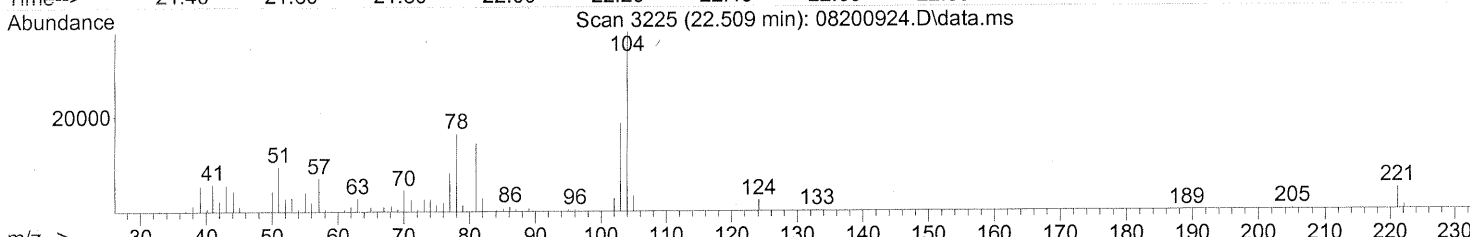
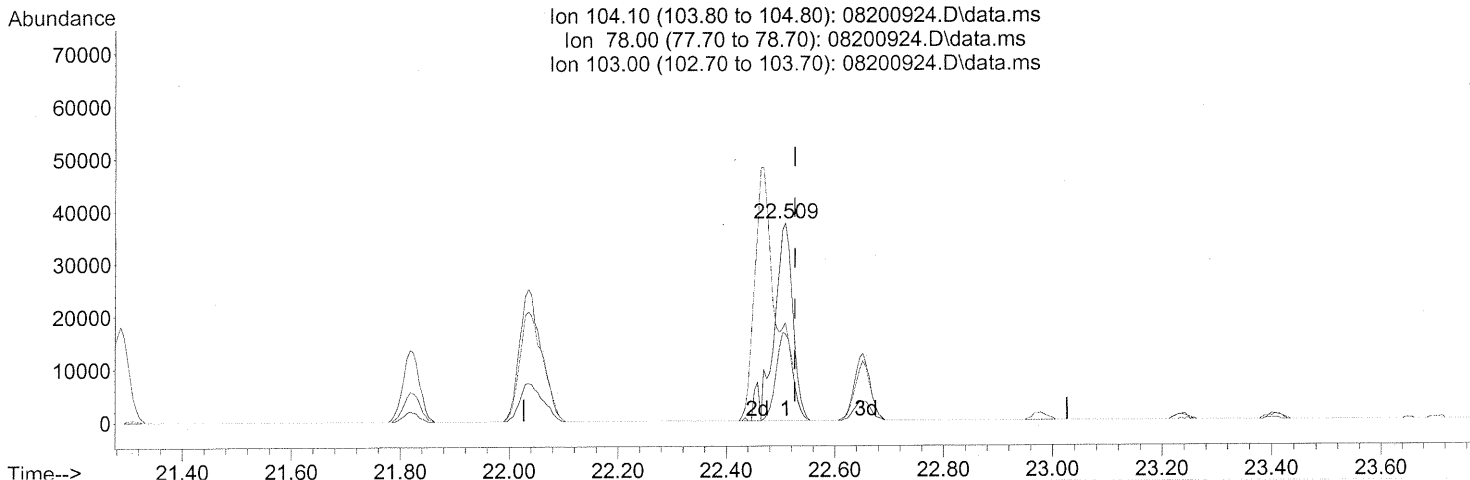
(68) Bromoform (T)
 22.149min (-0.017) 1.11ng
 response 10486

Ion	Exp%	Act%
172.80	100	100
174.80	47.90	49.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 2.66ng

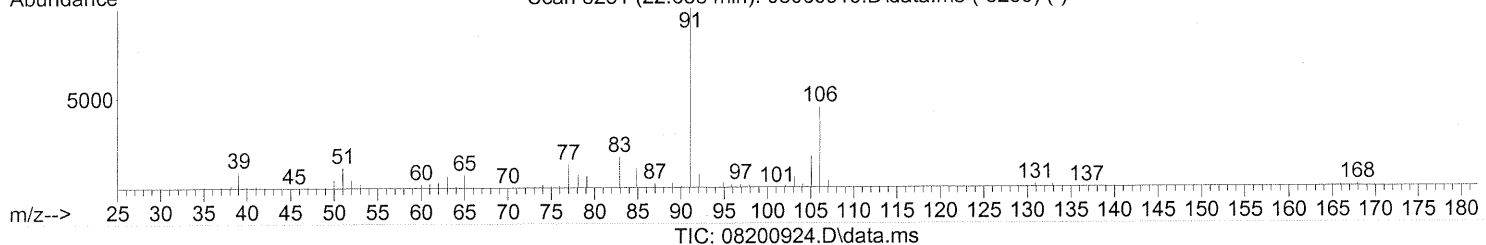
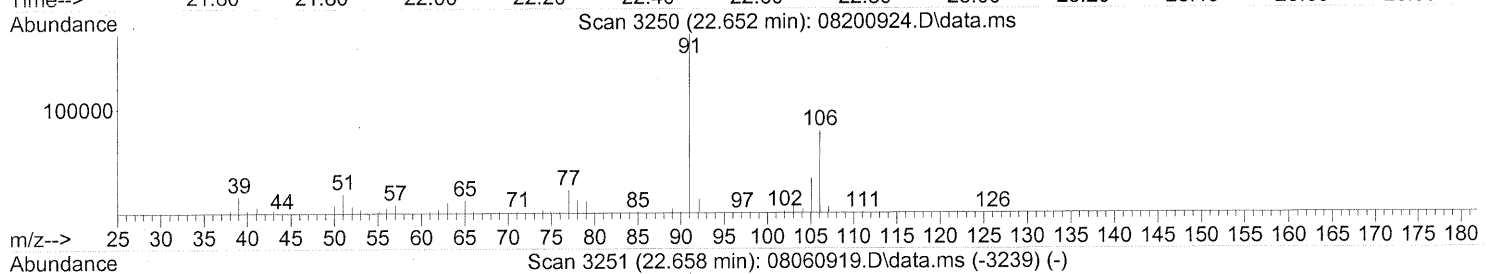
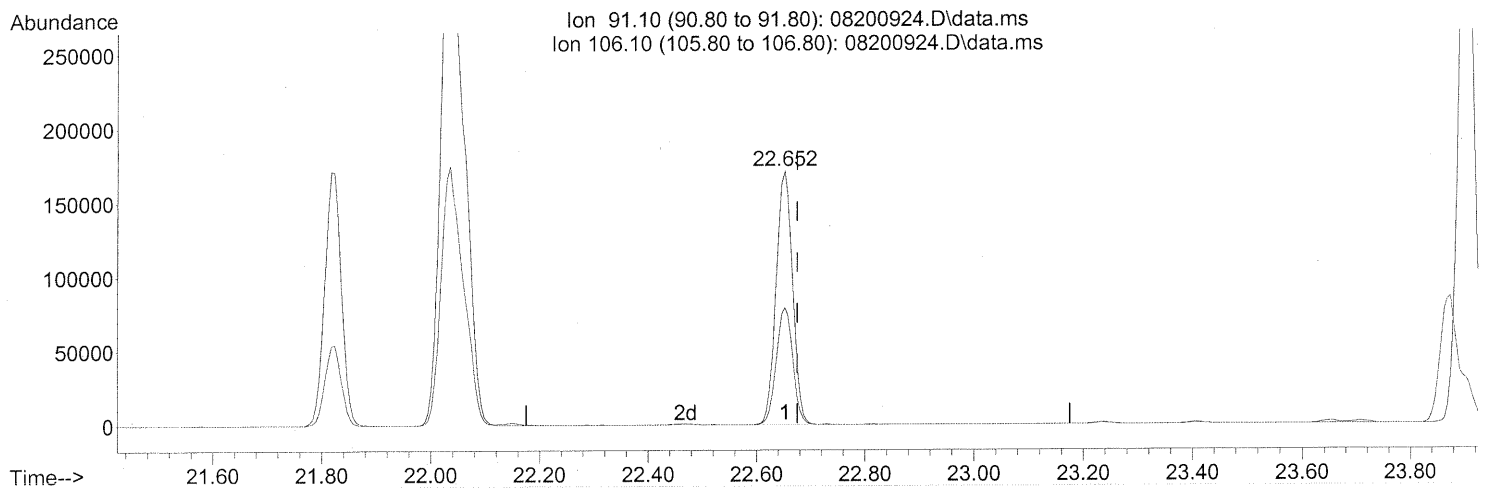
response 85778

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	41.56
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



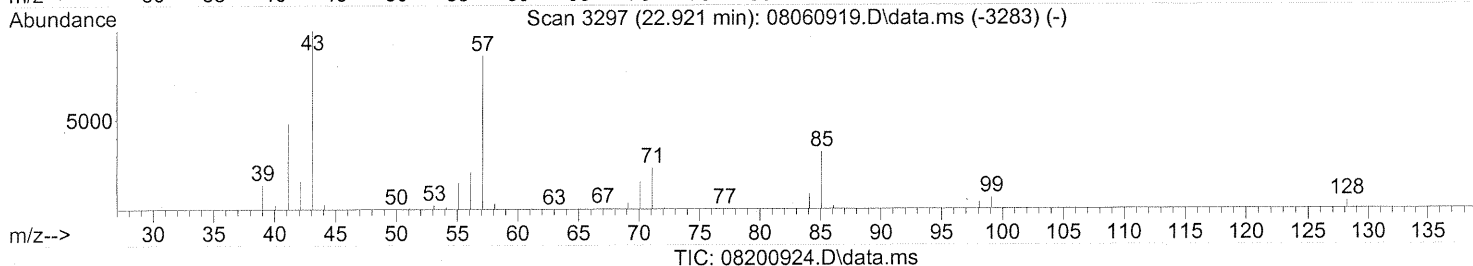
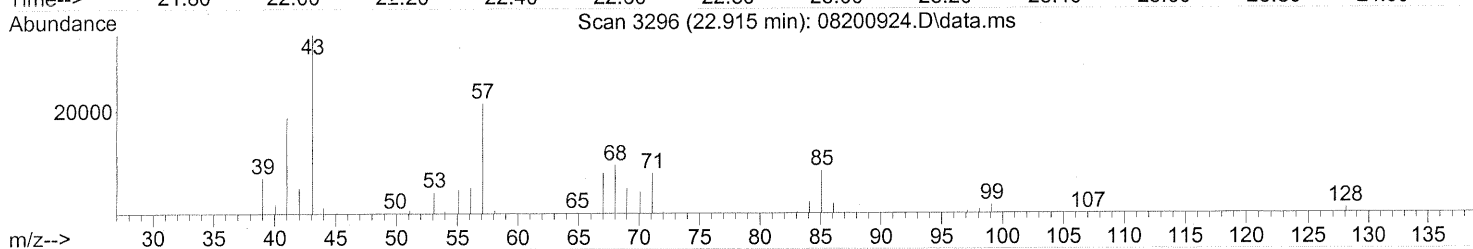
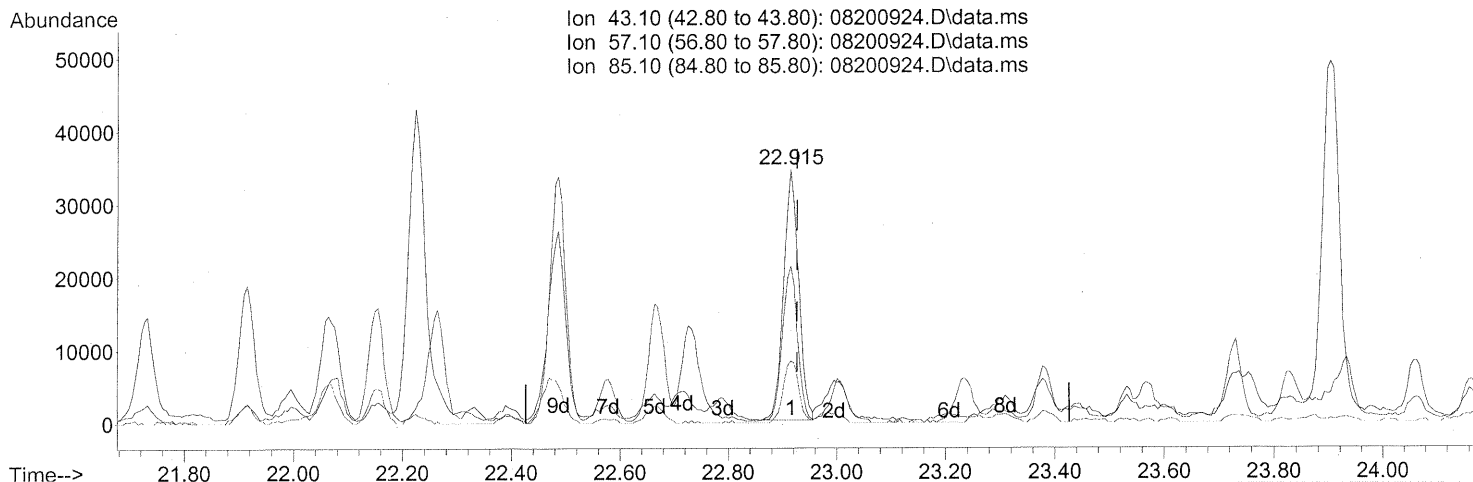
(70) o-Xylene (T)
 22.652min (-0.023) 8.04ng
 response 359449

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	46.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



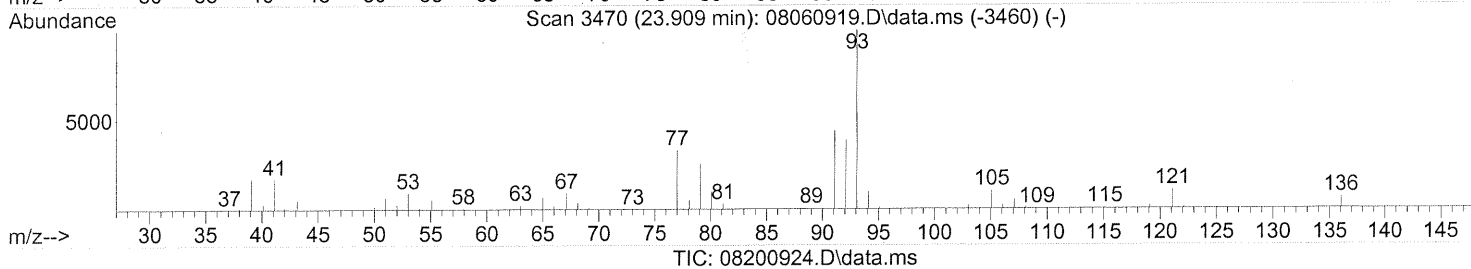
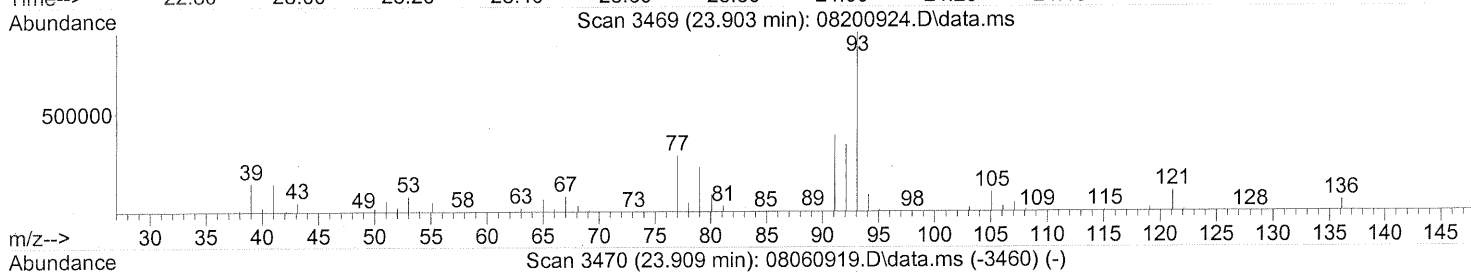
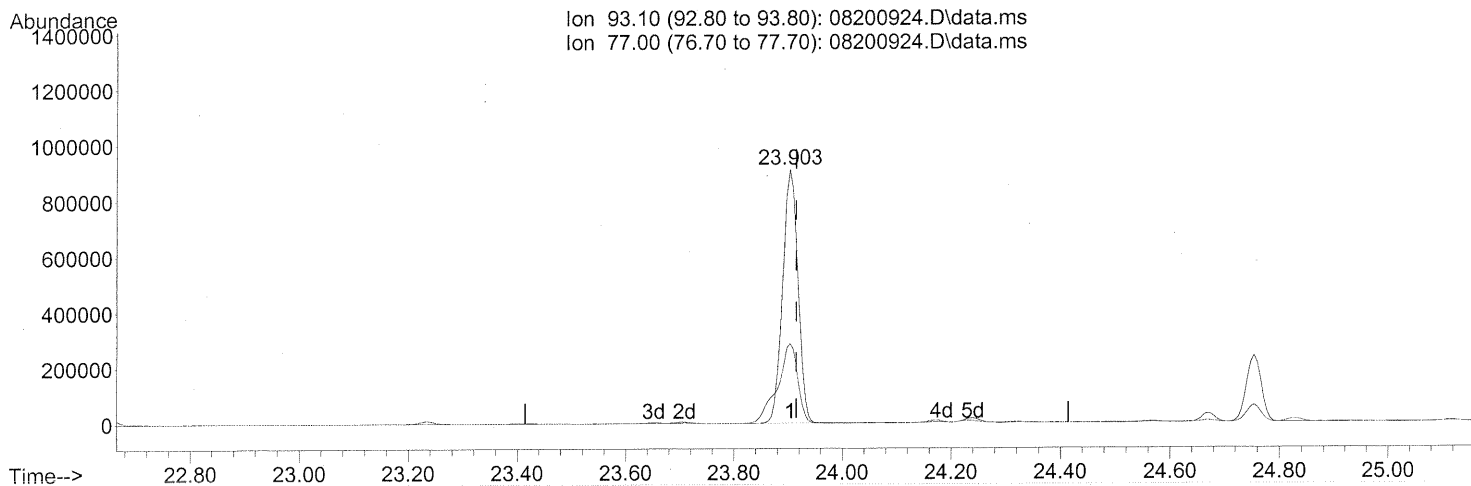
(71) n-Nonane (T)
 22.915min (-0.011) 2.23ng
 response 66235

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	62.11#
85.10	30.40	25.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



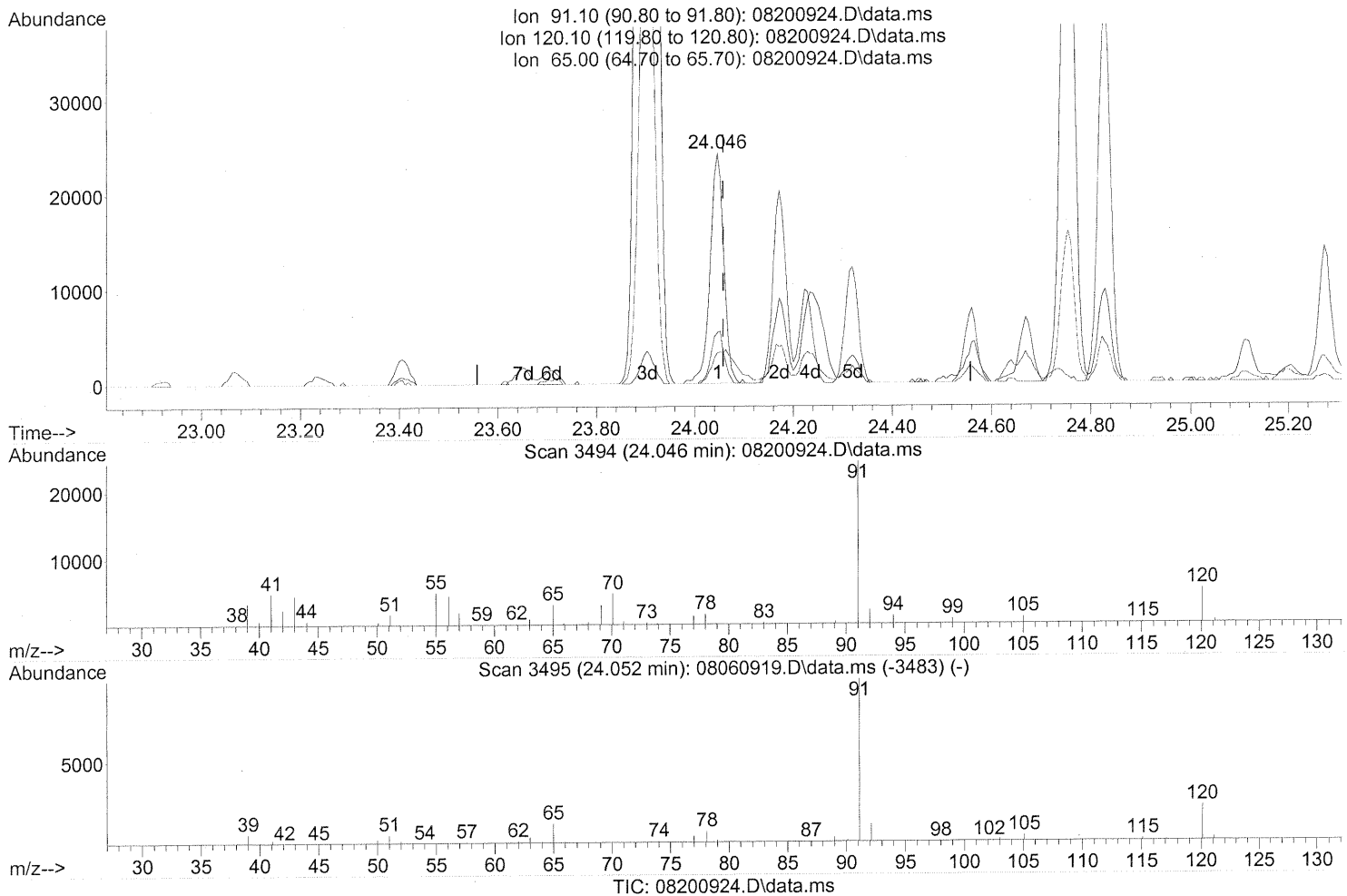
(75) alpha-Pinene (T)
 23.903min (-0.011) 61.72ng
 response 1787580

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	41.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.011) 0.66ng

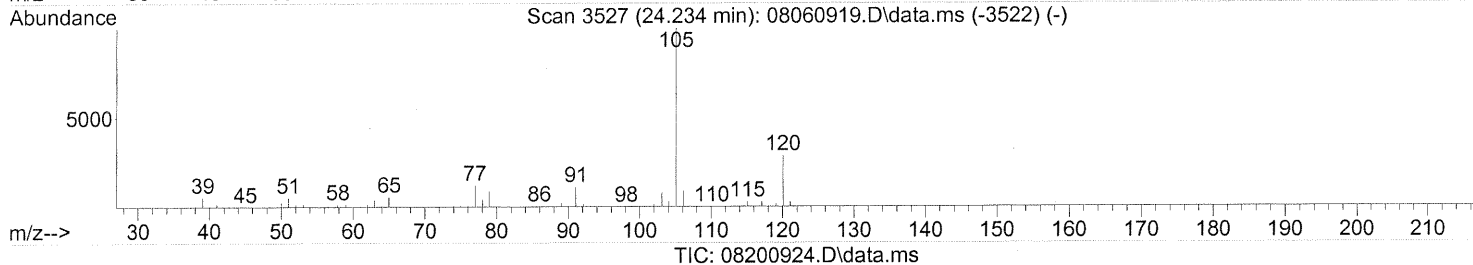
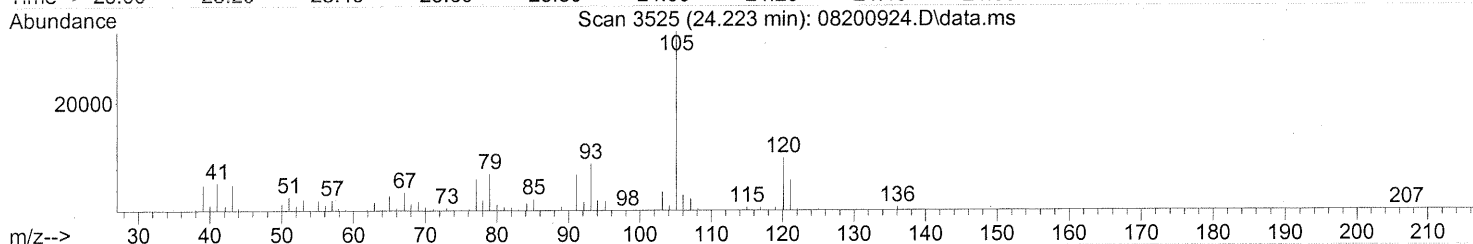
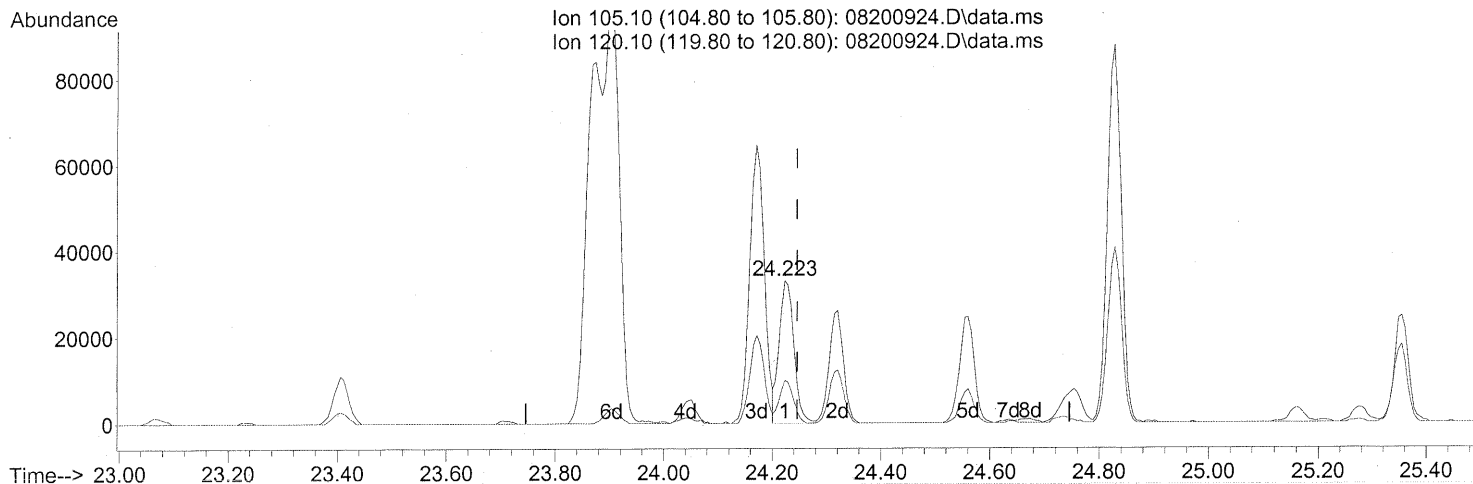
response 46767

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.61
65.00	12.00	25.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



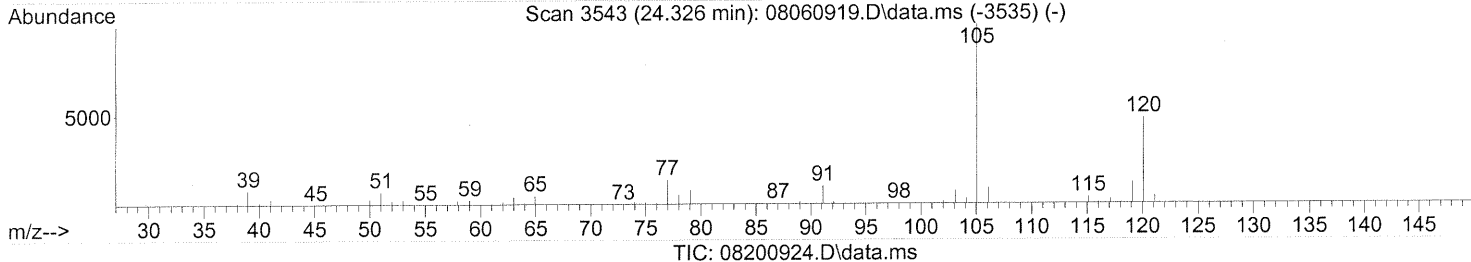
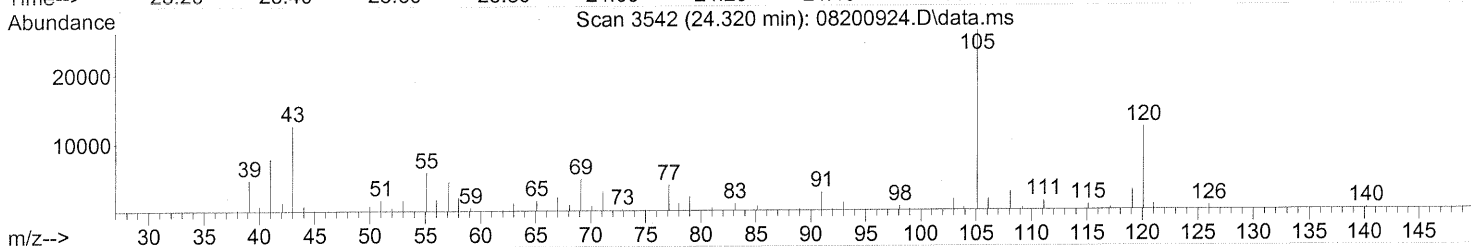
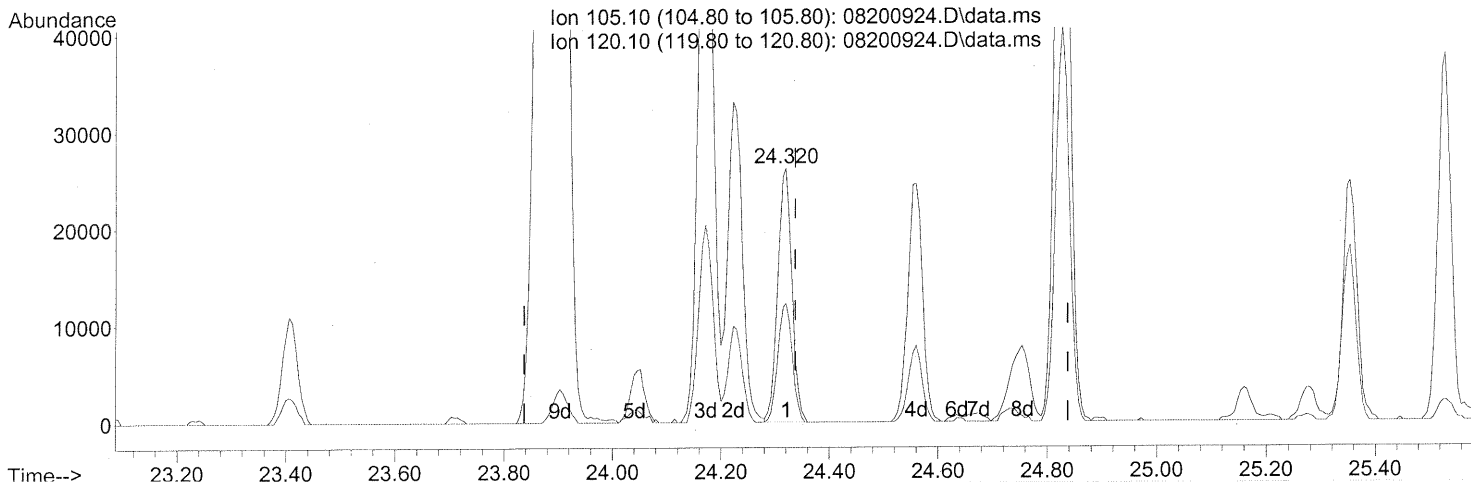
(78) 4-Ethyltoluene (T)
24.223min (-0.023) 1.19ng
response 62023

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 1.08ng

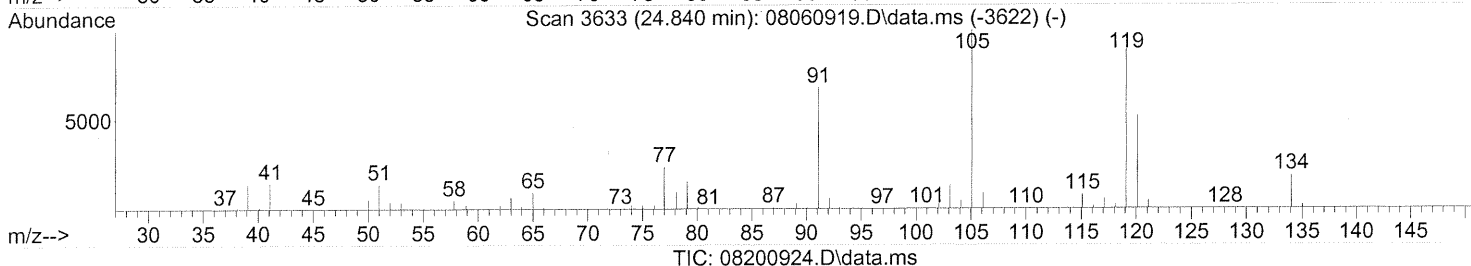
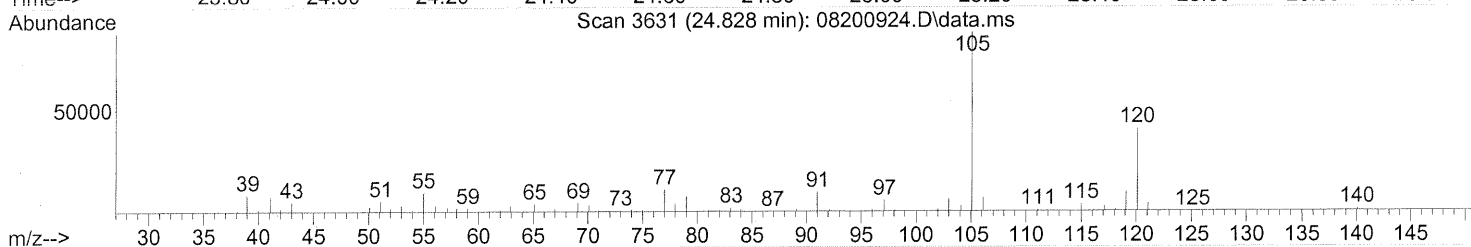
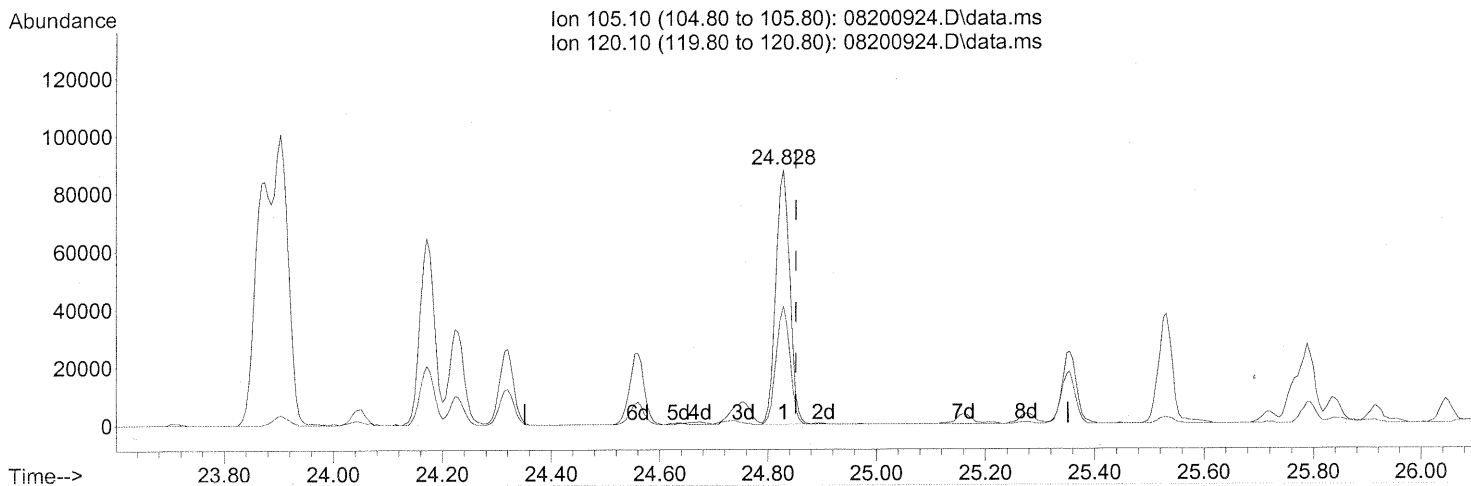
response 47500

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 3.46ng

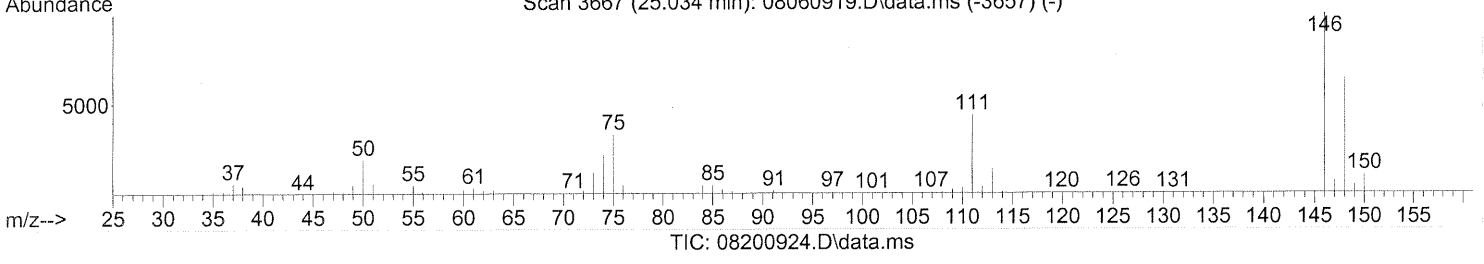
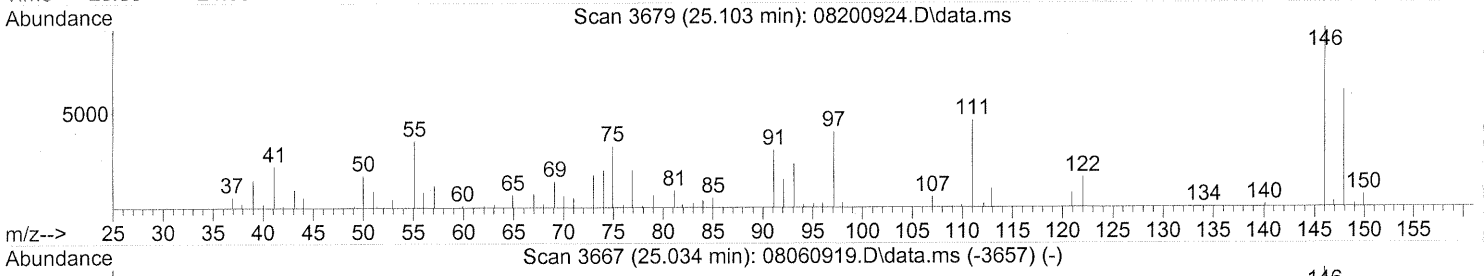
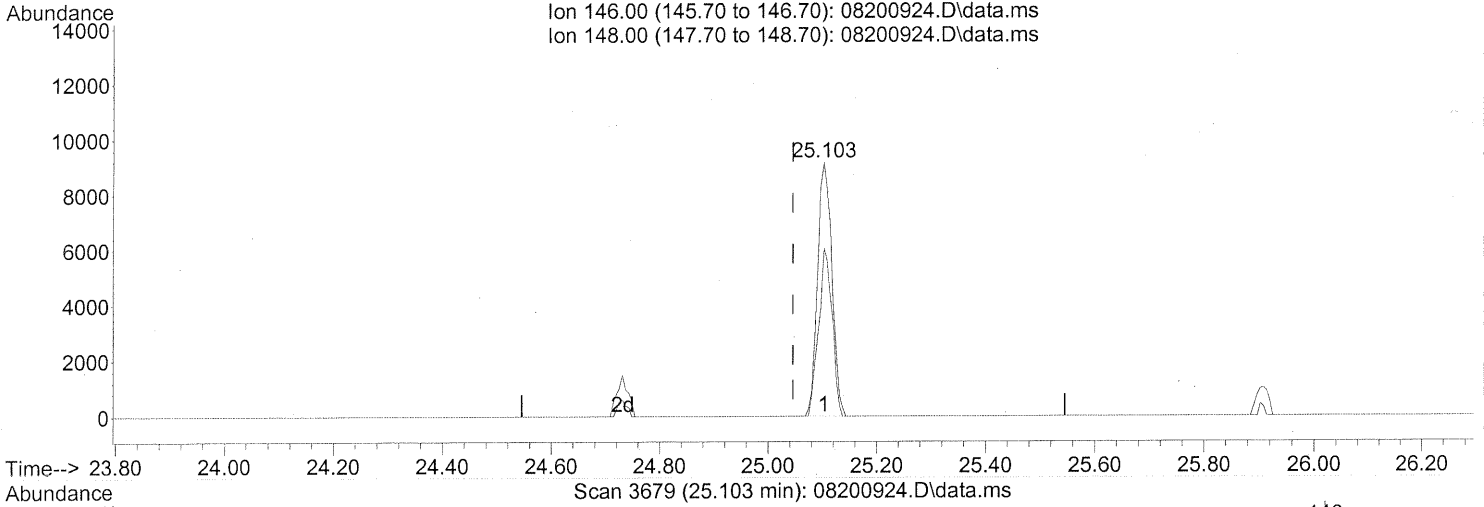
response 155917

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200924.D
 Acq On : 21 Aug 2009 2:03
 Operator : WA
 Sample : P0902805-005 (1000mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.73ng

response 16740

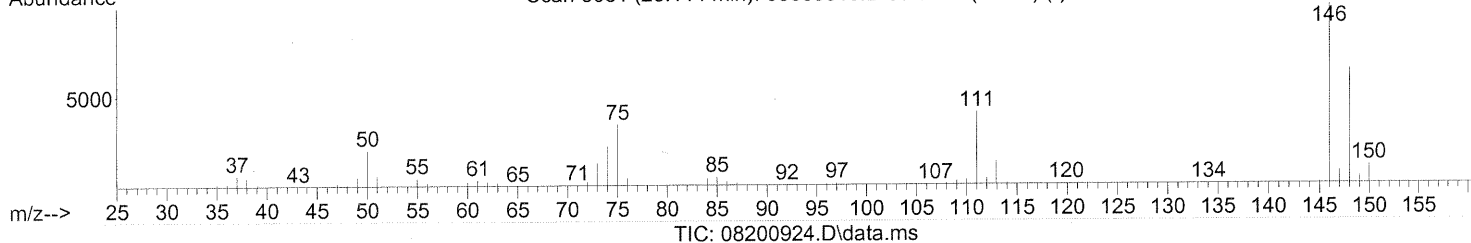
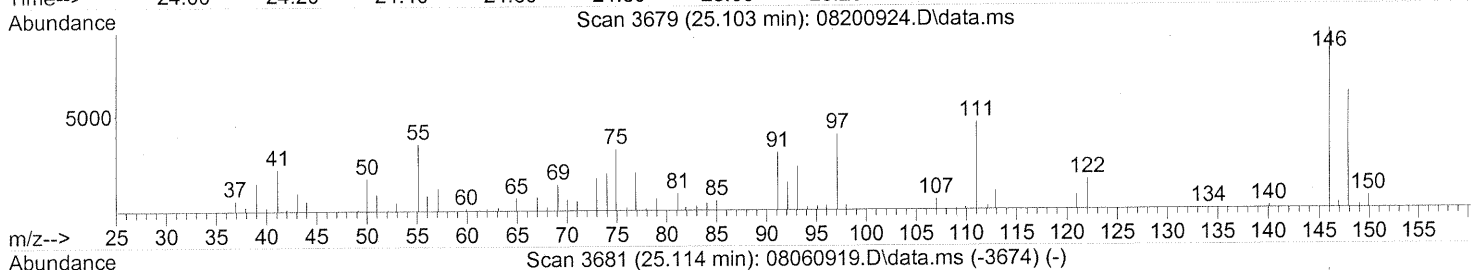
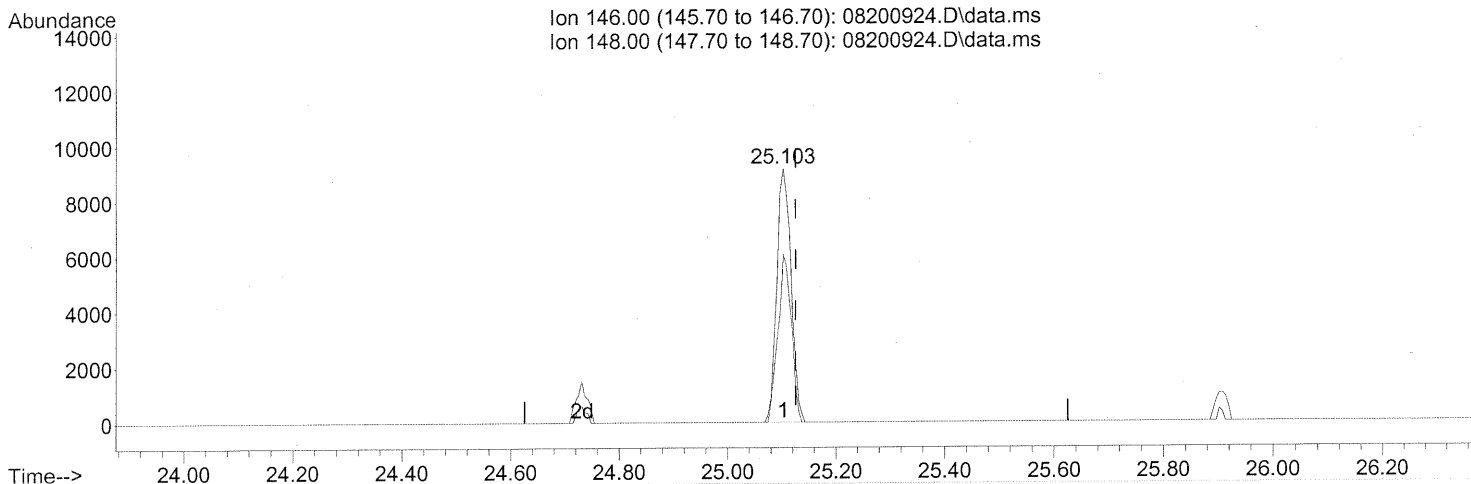
Ion	Exp%	Act%
146.00	100	100
148.00	61.60	62.00
0.00	0.00	0.00
0.00	0.00	0.00

FP
WA 8/22/09 *— R 8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.69ng

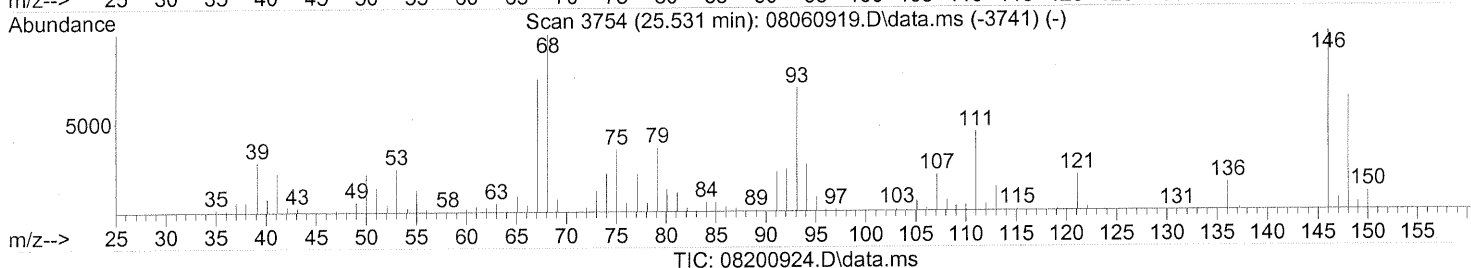
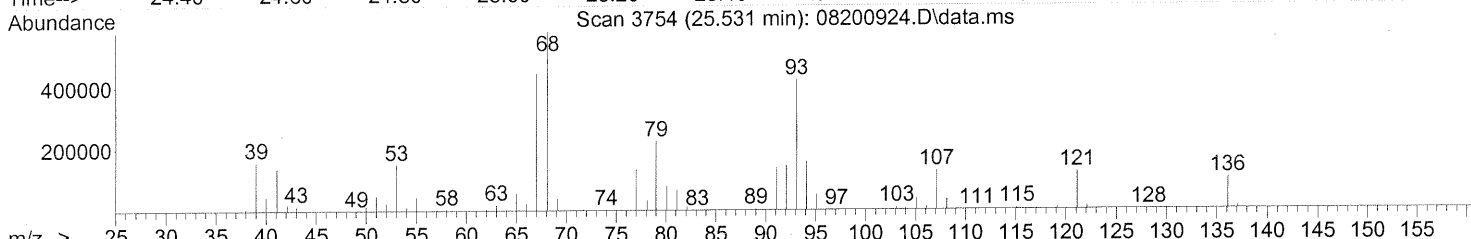
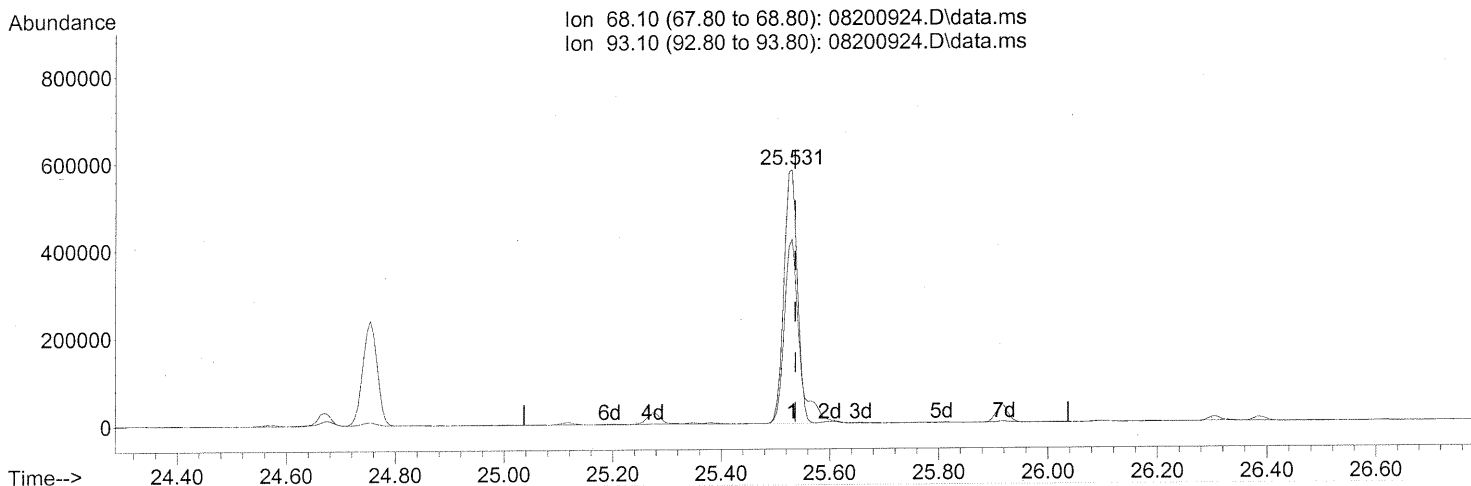
response 16740

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	62.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



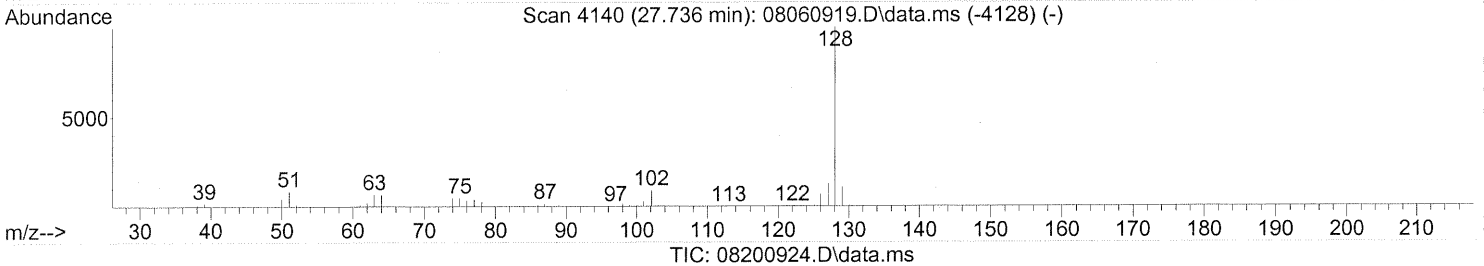
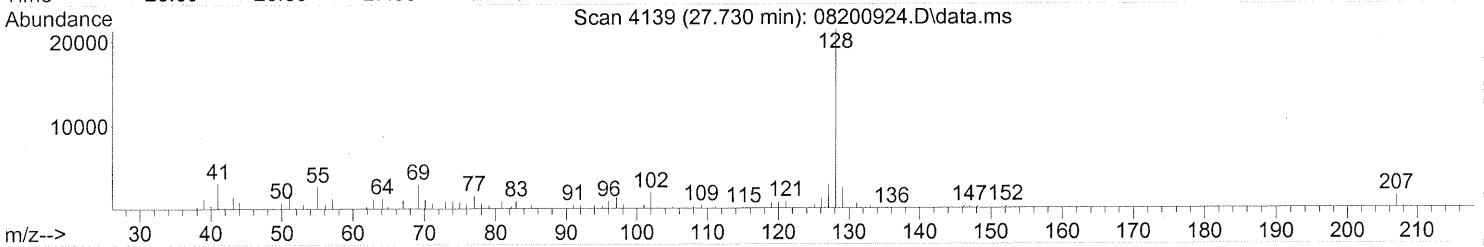
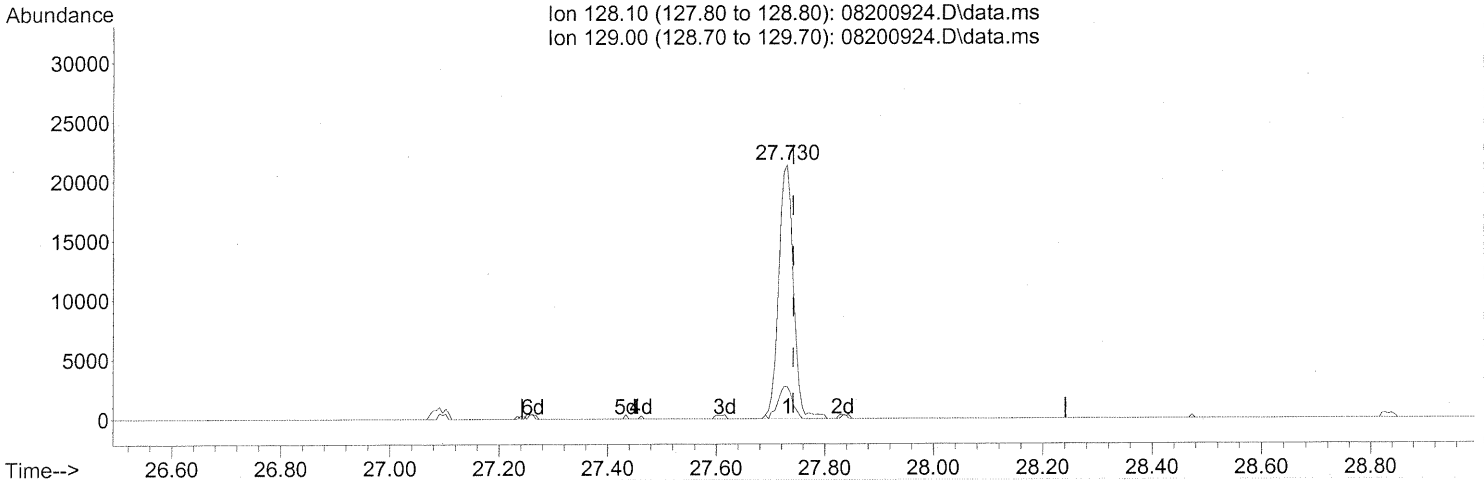
(91) d-Limonene (T)
25.531min (-0.006) 52.78ng
response 1010021

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	81.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200924.D
Acq On : 21 Aug 2009 2:03
Operator : WA
Sample : P0902805-005 (1000mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 03:56:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

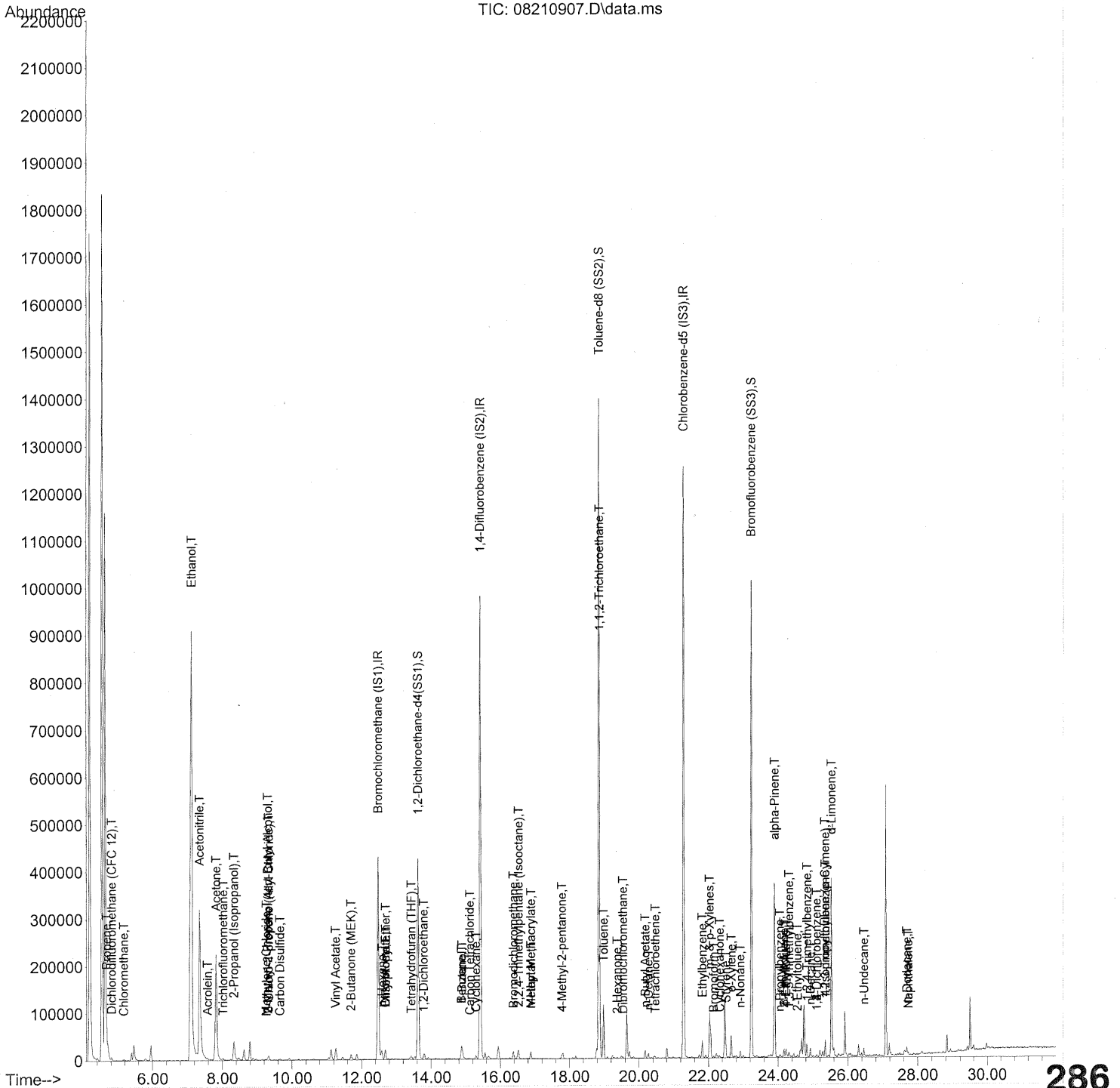


(95) Naphthalene (T)
27.730min (-0.011) 0.67ng
response 40648

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.51
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210907.D
Acq On : 21 Aug 2009 11:56
Operator : WA
Sample : P0902805-005 dil (100mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210907.D
 Acq On : 21 Aug 2009 11:56
 Operator : WA
 Sample : P0902805-005 dil (100mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	224046	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1132826	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	530781	25.000	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.62	65	435081	22.342	ng	-0.04	89.36%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.85	98	1215865	26.216	ng	-0.02	104.88%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.23	174	334764	27.371	ng	-0.01	109.48%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	7531	0.490	ng	90
3) Dichlorodifluoromethan...	4.82	85	5538	0.220	ng	95
4) Chloromethane	5.17	50	4366	0.259	ng	81
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.90	54	89	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	2055624	210.931	ng	100
11) Acetonitrile	7.34	41	565204	19.804	ng	99
12) Acrolein	7.58	56	2336	0.315	ng	82
13) Acetone	7.82	58	109983	11.961	ng	90
14) Trichlorofluoromethane	8.02	101	2382	0.105	ng	87
15) 2-Propanol (Isopropanol)	8.33	45	89230	2.469	ng	96
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	5824	0.182	ng	# 24
19) Methylene Chloride	9.26	84	718	0.058	ng	85
20) 3-Chloro-1-propene (Al...	9.32	41	2876	0.121	ng	# 43
21) Trichlorotrifluoroethane	9.69	151	89	N.D.		
22) Carbon Disulfide	9.64	76	4578	0.105	ng	# 74
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.24	86	1812	0.968	ng	# 17
27) 2-Butanone (MEK)	11.70	72	4816	0.580	ng	95
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	1285	0.116	ng	# 48
30) Ethyl Acetate	12.69	61	1594	0.369	ng	94
31) n-Hexane	12.58	57	10651	0.481	ng	99

287

DA 8/22/09

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210907.D
 Acq On : 21 Aug 2009 11:56
 Operator : WA
 Sample : P0902805-005 dil (100mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	14074	0.723	ng	100
34) Tetrahydrofuran (THF)	13.42	72	1858	0.210	ng	# 60
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	3443	0.193	ng	98
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	18915	1.287	ng	79
41) Benzene	14.87	78	16180	0.325	ng	95
42) Carbon Tetrachloride	15.11	117	1065	0.067	ng	91
43) Cyclohexane	15.29	84	3512	0.193	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	6090	0.371	ng	95
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	20965	0.357	ng	98
50) Methyl Methacrylate	16.88	100	1085	0.237	ng	# 1
51) n-Heptane	16.88	71	4784	0.358	ng	91
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1805	0.151	ng	84
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	106422	9.732	ng	# 5
58) Toluene	18.98	91	100458	2.204	ng	100
59) 2-Hexanone	19.37	43	2561	0.084	ng	82
60) Dibromochloromethane	19.54	129	2438	0.226	ng	98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	13995	0.392	ng	92
63) n-Octane	20.27	57	1854	0.168	ng	99
64) Tetrachloroethene	20.47	166	1082	0.103	ng	78
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	33983	0.652	ng	98
67) m- & p-Xylenes	22.03	91	94731	2.248	ng	97
68) Bromoform	22.15	173	626	0.070	ng	# 53
69) Styrene	22.50	104	6966	0.229	ng	# 64
70) o-Xylene	22.65	91	34058	0.806	ng	97
71) n-Nonane	22.91	43	6289	0.224	ng	83
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.40	105	2007	N.D.		
75) alpha-Pinene	23.90	93	171108	6.253	ng	88
76) n-Propylbenzene	24.05	91	4291	0.064	ng	87
77) 3-Ethyltoluene	24.17	105	11346	0.222	ng	97
78) 4-Ethyltoluene	24.22	105	5778	0.117	ng	91
79) 1,3,5-Trimethylbenzene	24.31	105	4395	0.105	ng	100

288

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210907.D
 Acq On : 21 Aug 2009 11:56
 Operator : WA
 Sample : P0902805-005 dil (100mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

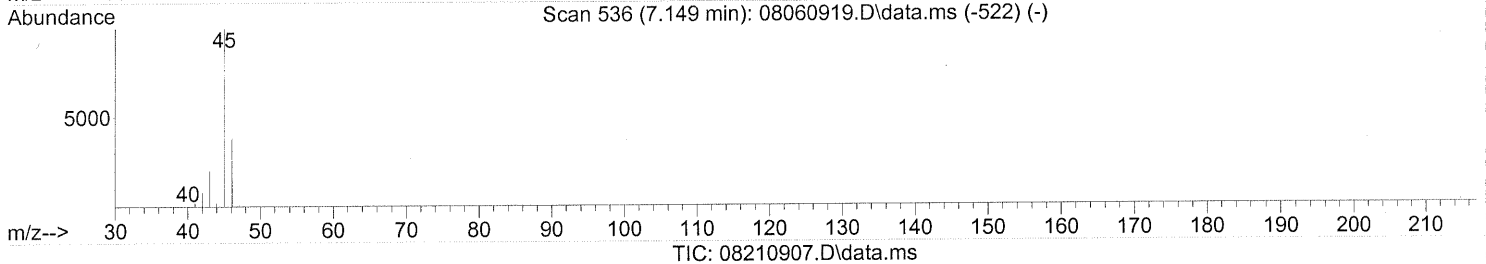
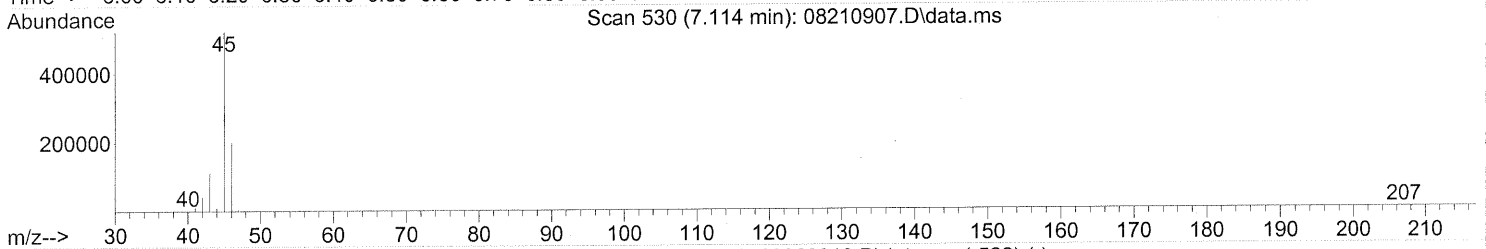
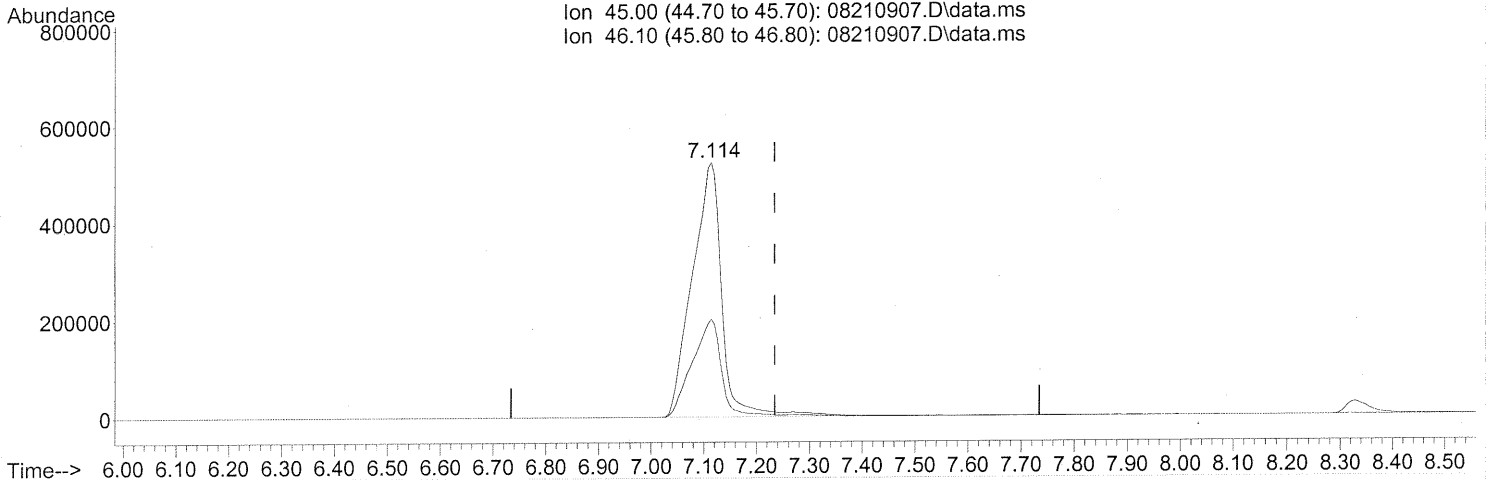
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	1065	N.D.		
81) 2-Ethyltoluene	24.55	105	4267	0.083	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	14430	0.339	ng	90
83) n-Decane	24.93	57	6851	0.248	ng	92
84) Benzyl Chloride	25.00	91	178	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	1592	0.074	ng	94
86) 1,4-Dichlorobenzene	25.10	146	1592	0.069	ng	95
87) sec-Butylbenzene	25.16	105	334	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	15388	0.300	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	4371	0.101	ng	# 69
90) 1,2-Dichlorobenzene	25.10	146	1592	0.078	ng	97
91) d-Limonene	25.53	68	95749	5.296	ng	86
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	7760	0.264	ng	95
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	5168	0.090	ng	77
96) n-Dodecane	27.69	57	5758	0.169	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	2422	0.128	ng	93
99) tert-Butylbenzene	24.83	119	1715	N.D.		
100) n-Butylbenzene	25.85	91	1553	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210907.D
Acq On : 21 Aug 2009 11:56
Operator : WA
Sample : P0902805-005 dil (100mL)
Misc : Environmental Health 101399
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.114min (-0.120) 210.93ng

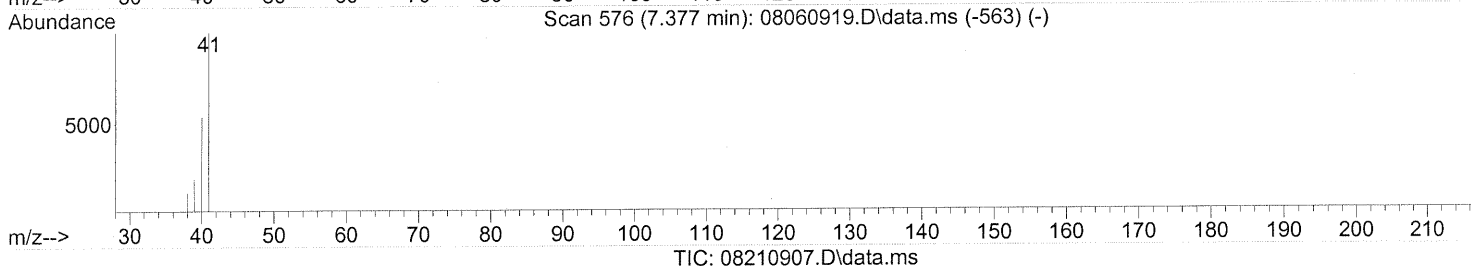
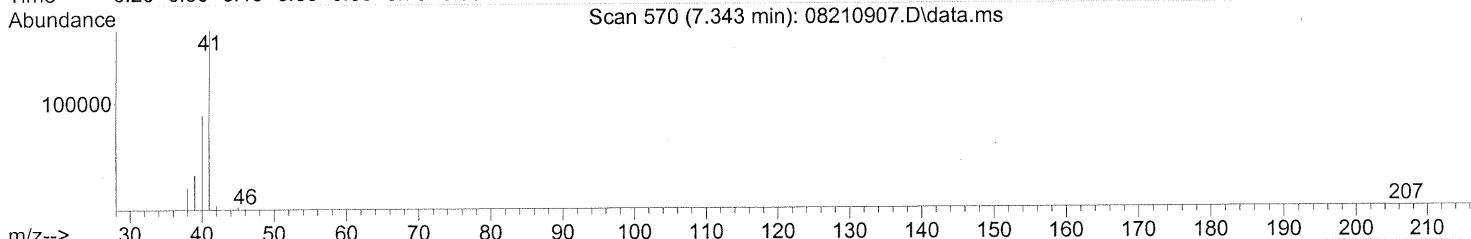
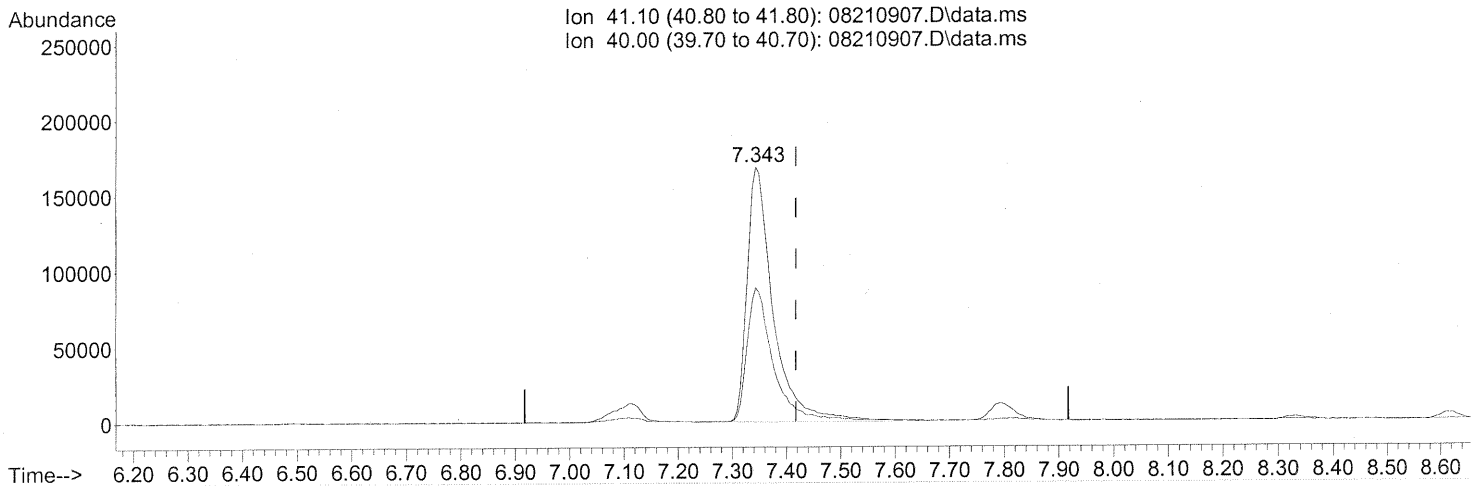
response 2055624

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210907.D
 Acq On : 21 Aug 2009 11:56
 Operator : WA
 Sample : P0902805-005 dil (100mL)
 Misc : Environmental Health 101399
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 15:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.343min (-0.074) 19.80ng
 response 565204

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	52.85
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101400

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01576

Date Collected: 8/13/09

Date Received: 8/14/09

Date Analyzed: 8/21/09

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.22

CAS #	Compound	Result μg/m ³	MRL μg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	5.4	1.2	3.2	0.71	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	1.2	0.49	0.25	
74-87-3	Chloromethane	2.4	0.24	1.1	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.2	ND	0.17	
75-01-4	Vinyl Chloride	ND	0.24	ND	0.095	
106-99-0	1,3-Butadiene	0.33	0.24	0.15	0.11	
74-83-9	Bromomethane	ND	0.24	ND	0.063	
75-00-3	Chloroethane	ND	0.24	ND	0.093	
64-17-5	Ethanol	3,400	12	1,800	6.5	D
75-05-8	Acetonitrile	200	1.2	120	0.73	
107-02-8	Acrolein	4.6	1.2	2.0	0.53	
67-64-1	Acetone	150	12	63	5.1	
75-69-4	Trichlorofluoromethane	1.2	0.24	0.21	0.043	
67-63-0	2-Propanol (Isopropyl Alcohol)	27	1.2	11	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.56	
75-35-4	1,1-Dichloroethene	ND	0.24	ND	0.062	
75-09-2	Methylene Chloride	ND	1.2	ND	0.35	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.24	ND	0.078	
76-13-1	Trichlorotrifluoroethane	0.59	0.24	0.076	0.032	
75-15-0	Carbon Disulfide	1.3	1.2	0.40	0.39	
156-60-5	trans-1,2-Dichloroethene	ND	0.24	ND	0.062	
75-34-3	1,1-Dichloroethane	ND	0.24	ND	0.060	
1634-04-4	Methyl tert-Butyl Ether	ND	0.24	ND	0.068	
108-05-4	Vinyl Acetate	ND	12	ND	3.5	
78-93-3	2-Butanone (MEK)	8.6	1.2	2.9	0.41	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By:

f

Date:

8/21/09

292

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101400

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01576

Date Collected: 8/13/09

Date Received: 8/14/09

Date Analyzed: 8/21/09

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.24	ND	0.062	
141-78-6	Ethyl Acetate	5.4	1.2	1.5	0.34	
110-54-3	n-Hexane	5.3	1.2	1.5	0.35	
67-66-3	Chloroform	8.8	0.24	1.8	0.050	
109-99-9	Tetrahydrofuran (THF)	1.5	1.2	0.49	0.41	
107-06-2	1,2-Dichloroethane	2.2	0.24	0.55	0.060	
71-55-6	1,1,1-Trichloroethane	ND	0.24	ND	0.045	
71-43-2	Benzene	3.3	0.24	1.0	0.076	
56-23-5	Carbon Tetrachloride	0.94	0.24	0.15	0.039	
110-82-7	Cyclohexane	2.5	1.2	0.72	0.35	
78-87-5	1,2-Dichloropropane	ND	0.24	ND	0.053	
75-27-4	Bromodichloromethane	4.7	0.24	0.71	0.036	
79-01-6	Trichloroethene	ND	0.24	ND	0.045	
123-91-1	1,4-Dioxane	ND	1.2	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.2	ND	0.30	
142-82-5	n-Heptane	4.0	1.2	0.98	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	3.0	1.2	0.74	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	0.24	ND	0.045	
108-88-3	Toluene	23	1.2	6.2	0.32	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	3.2	0.24	0.38	0.029	
106-93-4	1,2-Dibromoethane	ND	0.24	ND	0.032	
123-86-4	n-Butyl Acetate	4.7	1.2	1.0	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/3/09

293

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101400
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01576

CAS Project ID: P0902805
CAS Sample ID: P0902805-006

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/21/09
Volume(s) Analyzed: 0.50 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.22

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.9	1.2	0.41	0.26	
127-18-4	Tetrachloroethene	1.4	0.24	0.20	0.036	
108-90-7	Chlorobenzene	ND	0.24	ND	0.053	
100-41-4	Ethylbenzene	6.5	1.2	1.5	0.28	
179601-23-1	m,p-Xylenes	22	1.2	5.2	0.28	
75-25-2	Bromoform	1.3	1.2	0.13	0.12	
100-42-5	Styrene	2.6	1.2	0.62	0.29	
95-47-6	o-Xylene	8.2	1.2	1.9	0.28	
111-84-2	n-Nonane	2.0	1.2	0.39	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	ND	0.036	
98-82-8	Cumene	ND	1.2	ND	0.25	
80-56-8	alpha-Pinene	70	1.2	13	0.22	
103-65-1	n-Propylbenzene	ND	1.2	ND	0.25	
622-96-8	4-Ethyltoluene	1.3	1.2	0.26	0.25	
108-67-8	1,3,5-Trimethylbenzene	ND	1.2	ND	0.25	
95-63-6	1,2,4-Trimethylbenzene	3.7	1.2	0.74	0.25	
100-44-7	Benzyl Chloride	ND	0.24	ND	0.047	
541-73-1	1,3-Dichlorobenzene	ND	0.24	ND	0.041	
106-46-7	1,4-Dichlorobenzene	0.80	0.24	0.13	0.041	
95-50-1	1,2-Dichlorobenzene	ND	0.24	ND	0.041	
5989-27-5	d-Limonene	59	1.2	11	0.22	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.16	
91-20-3	Naphthalene	ND	1.2	ND	0.23	
87-68-3	Hexachlorobutadiene	ND	1.2	ND	0.11	

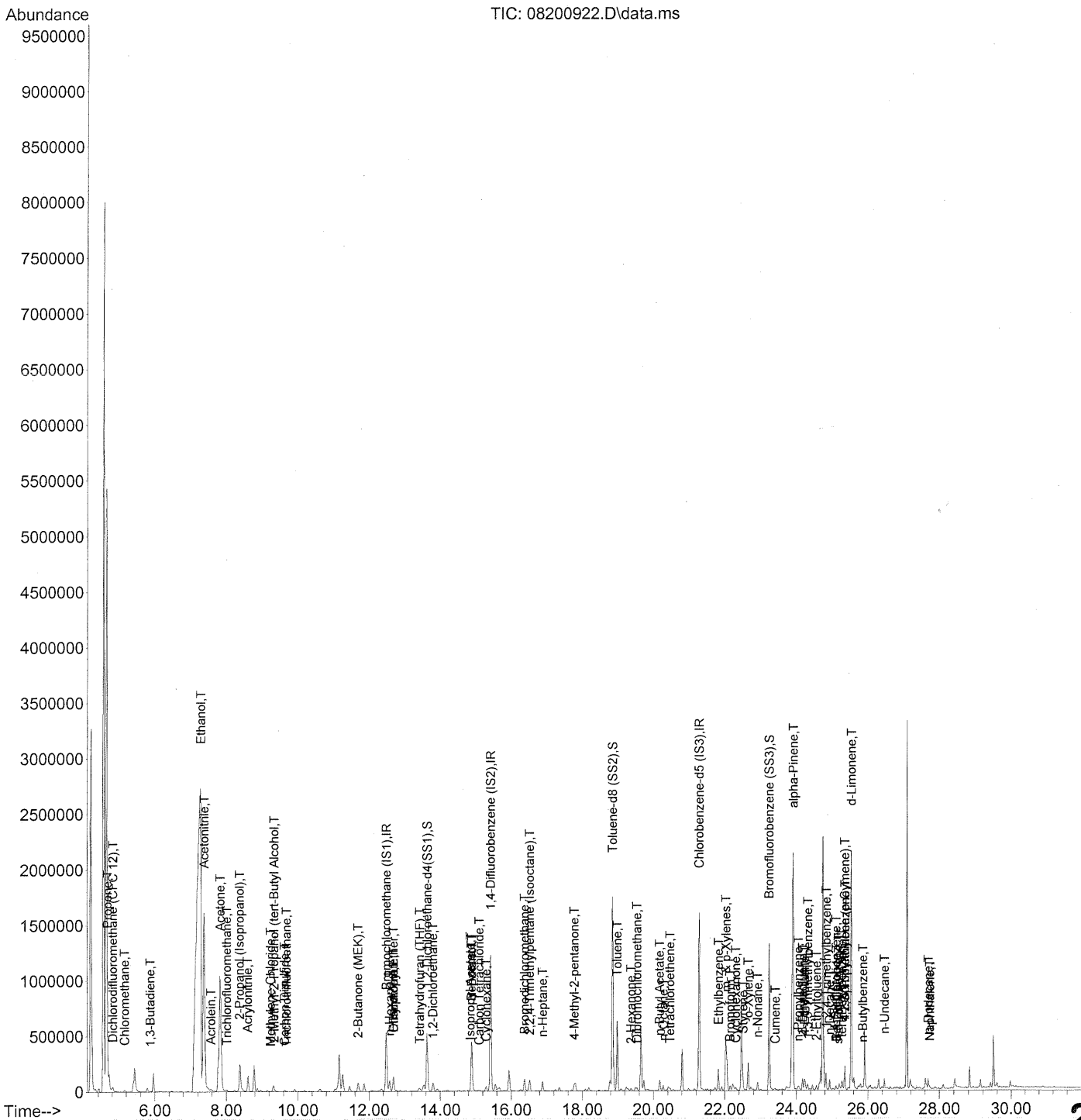
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/3/09 **294**
TO15scan.xls - 75 Compounds - PageNo.:

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 09:30:27 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 09:30:27 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	275111	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1403360	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	668947	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	
33) 1,2-Dichloroethane-d4(...)	13.63	65	536540	22.438	ng	-0.03	
Spiked Amount				25.000			
				Recovery =		89.76%	✓
57) Toluene-d8 (SS2)	18.85	98	1517776	25.967	ng	-0.02	
Spiked Amount				25.000			
				Recovery =		103.88%	✓
73) Bromofluorobenzene (SS3)	23.23	174	437313	28.371	ng	-0.01	
Spiked Amount				25.000			
				Recovery =		113.48%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	42125m	2.231	ng	
3) Dichlorodifluoromethan...	4.82	85	30844	1.000	ng	97
4) Chloromethane	5.15	50	20118	0.970	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	315	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	1953	0.137	ng	# 81
8) Bromomethane	6.35	94	312	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.27	45	13139376	1097.998 ng		100 <i>see dil</i>
11) Acetonitrile	7.38	41	2943258	83.984	ng	100
12) Acrolein	7.57	56	17022	1.869	ng	95
13) Acetone	7.83	58	690816	61.183	ng	98
14) Trichlorofluoromethane	8.01	101	13776	0.494	ng	97
15) 2-Propanol (Isopropanol)	8.38	45	499799	11.264	ng	100
16) Acrylonitrile	8.60	53	3576	0.175	ng	# 31
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.34	59	26658	0.677	ng	# 45
19) Methylene Chloride	9.24	84	3906	0.258	ng	88
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.68	151	2434	0.240	ng	90
22) Carbon Disulfide	9.63	76	27516	0.515	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. d		
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.68	72	36037	3.535	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	9194	0.674	ng	# 49
30) Ethyl Acetate	12.68	61	11784	2.219	ng	92
31) n-Hexane	12.58	57	58873	2.167	ng	96

WA 8/22/09

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 09:30:27 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	85815	3.588 ng		99
34) Tetrahydrofuran (THF)	13.42	72	6500	0.598 ng	#	32
35) Ethyl tert-Butyl Ether	13.48	87	92	N.D.		
36) 1,2-Dichloroethane	13.79	62	20055	0.917 ng		95
38) 1,1,1-Trichloroethane	14.17	97	86	N.D.		
39) Isopropyl Acetate	14.85	61	900	0.086 ng	#	1
40) 1-Butanol	14.89	56	336190	18.458 ng	#	79
41) Benzene	14.88	78	83759	1.358 ng		99
42) Carbon Tetrachloride	15.10	117	7617	0.387 ng		96
43) Cyclohexane	15.29	84	22847	1.011 ng		97
44) tert-Amyl Methyl Ether	16.07	73	460	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	39548	1.945 ng		98
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	286	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	113496	1.562 ng		92
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	27204	1.643 ng		97
52) cis-1,3-Dichloropropene	17.57	75	312	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	18463	1.245 ng		98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	545603	9.498 ng		99
59) 2-Hexanone	19.37	43	19032	0.498 ng		99
60) Dibromochloromethane	19.54	129	17858	1.314 ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	87320	1.939 ng		95
63) n-Octane	20.28	57	10821	0.779 ng		97
64) Tetrachloroethene	20.46	166	7504	0.565 ng		96
65) Chlorobenzene	21.37	112	1723	N.D.		
66) Ethylbenzene	21.82	91	175178	2.668 ng		100
67) m- & p-Xylenes	22.04	91	489566	9.216 ng		98
68) Bromoform	22.14	173	6069	0.538 ng		93
69) Styrene	22.51	104	41713	1.086 ng	#	62
70) o-Xylene	22.65	91	178457	3.351 ng		96
71) n-Nonane	22.91	43	29328	0.829 ng		87
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.41	105	10848	0.161 ng		99
75) alpha-Pinene	23.90	93	986655	28.610 ng	#	42
76) n-Propylbenzene	24.05	91	24085	0.285 ng		83
77) 3-Ethyltoluene	24.17	105	61904	0.963 ng		100
78) 4-Ethyltoluene	24.22	105	33081	0.531 ng		99
79) 1,3,5-Trimethylbenzene	24.31	105	24759	0.471 ng		97

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 09:30:27 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	527	N.D.		
81) 2-Ethyltoluene	24.56	105	23818	0.367 ng		98
82) 1,2,4-Trimethylbenzene	24.83	105	80222	1.497 ng		89
83) n-Decane	24.93	57	33331	0.957 ng		91
84) Benzyl Chloride	25.11	91	2622	0.052 ng	#	57
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.10	146	9511	0.329 ng		96
87) sec-Butylbenzene	25.17	105	3708	0.051 ng		80
88) 4-Isopropyltoluene (p-...	25.35	119	98062	1.519 ng		96
89) 1,2,3-Trimethylbenzene	25.35	105	23189	0.425 ng	#	58
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.53	68	555098	24.361 ng		88
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	31574	0.852 ng		84
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	18838	0.259 ng		98
96) n-Dodecane	27.69	57	28148	0.654 ng		89
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	14145	0.594 ng		99
99) tert-Butylbenzene	25.27	119	4360	0.084 ng		99
100) n-Butylbenzene	25.86	91	8091	0.136 ng	#	46

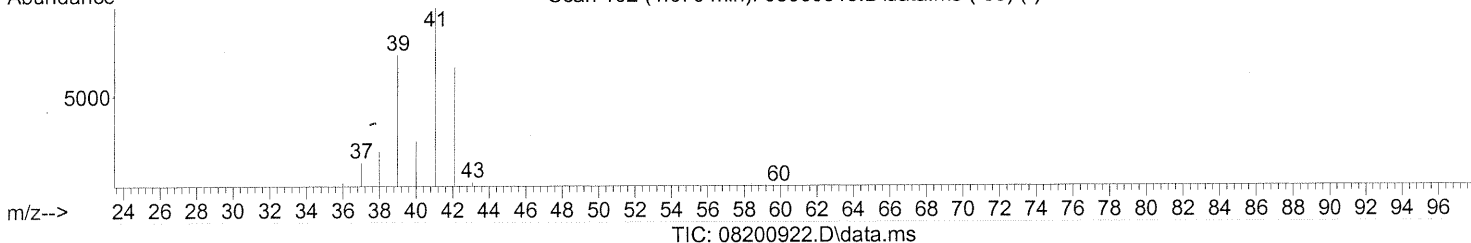
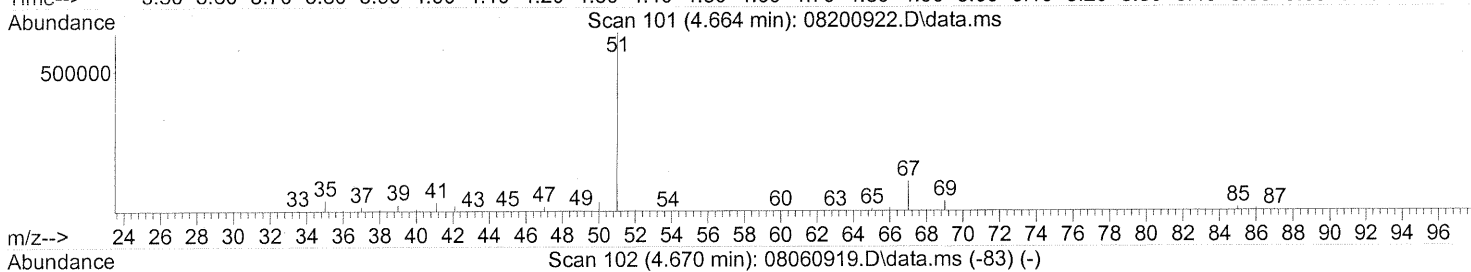
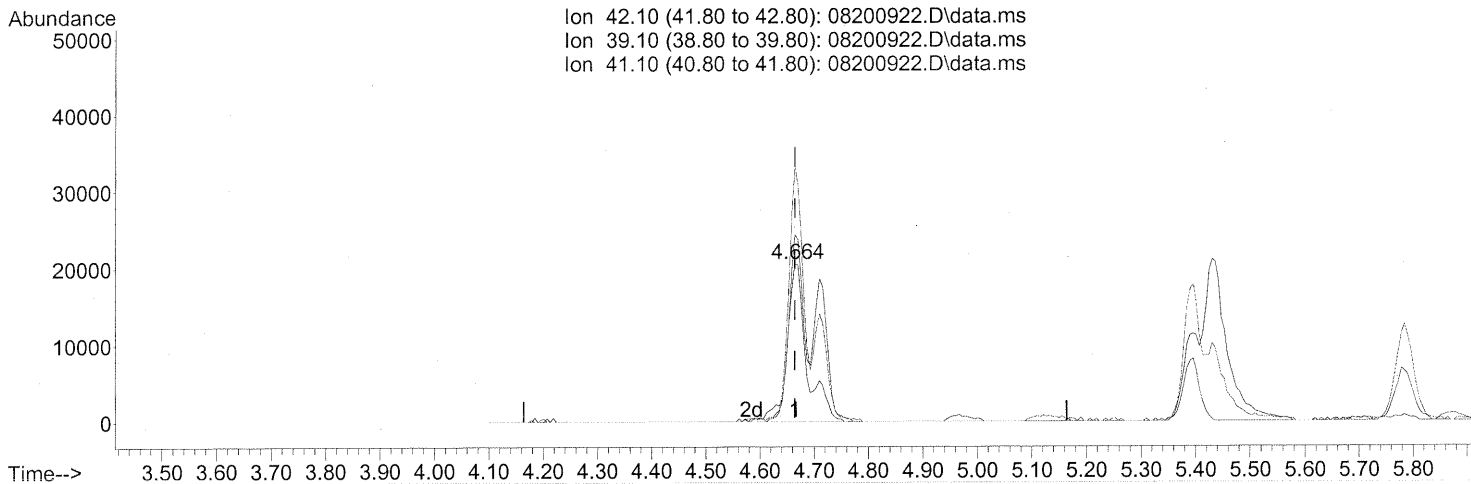
<MPL
 7/8/09/5

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(2) Propene (T)

4.664min (-0.000) 2.72ng

response 51363

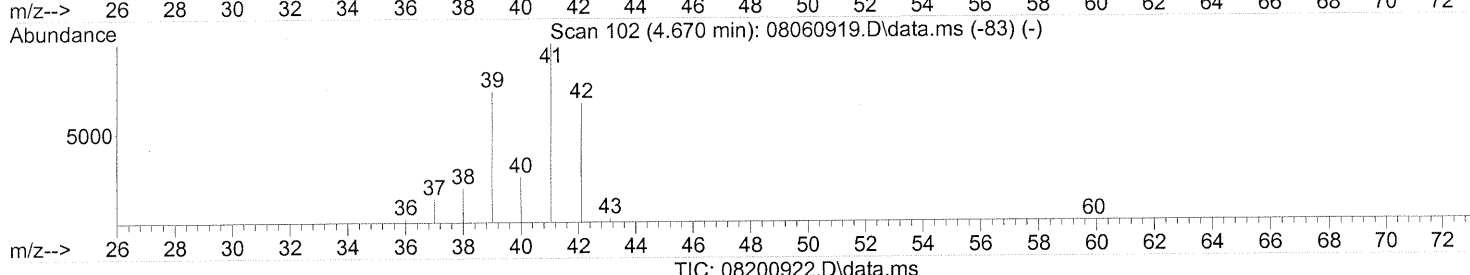
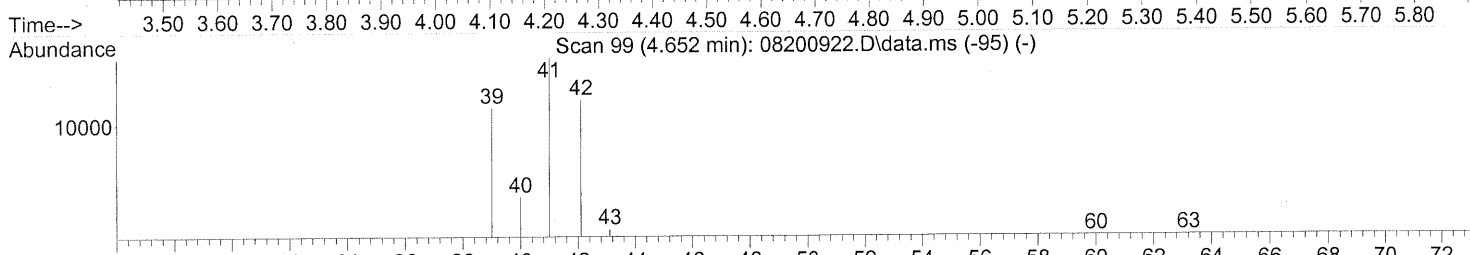
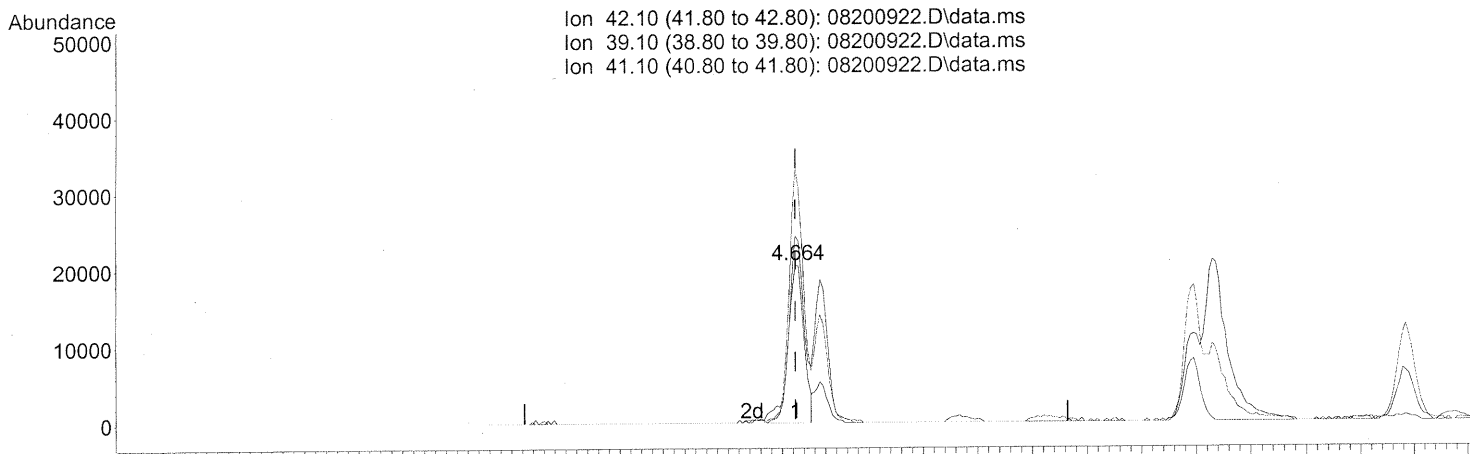
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	91.48#
41.10	150.20	119.57#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (-0.000) 2.23ng m

response 42125

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	111.55
41.10	150.20	145.79
0.00	0.00	0.00

SH → IC & after substr.

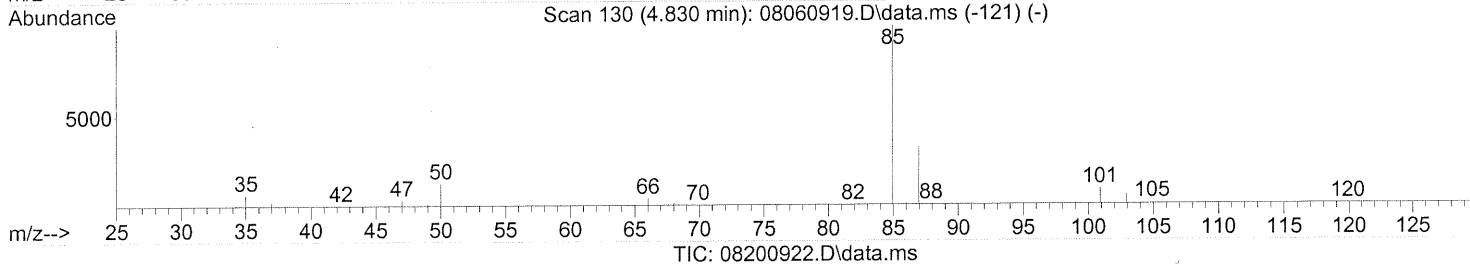
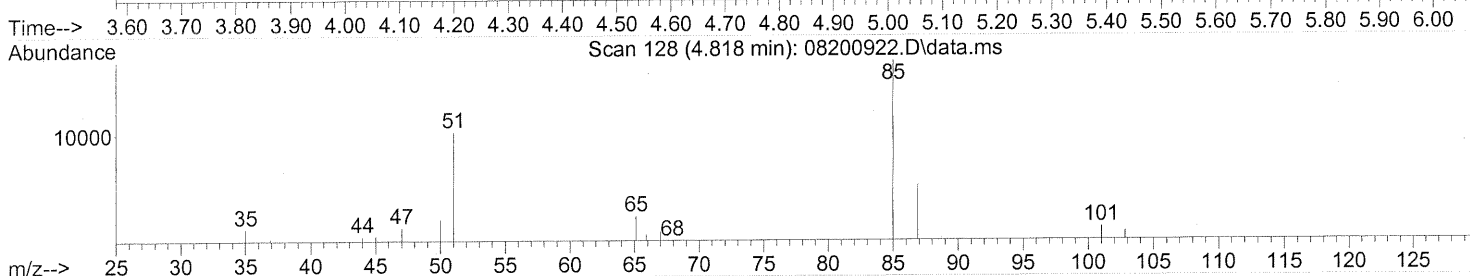
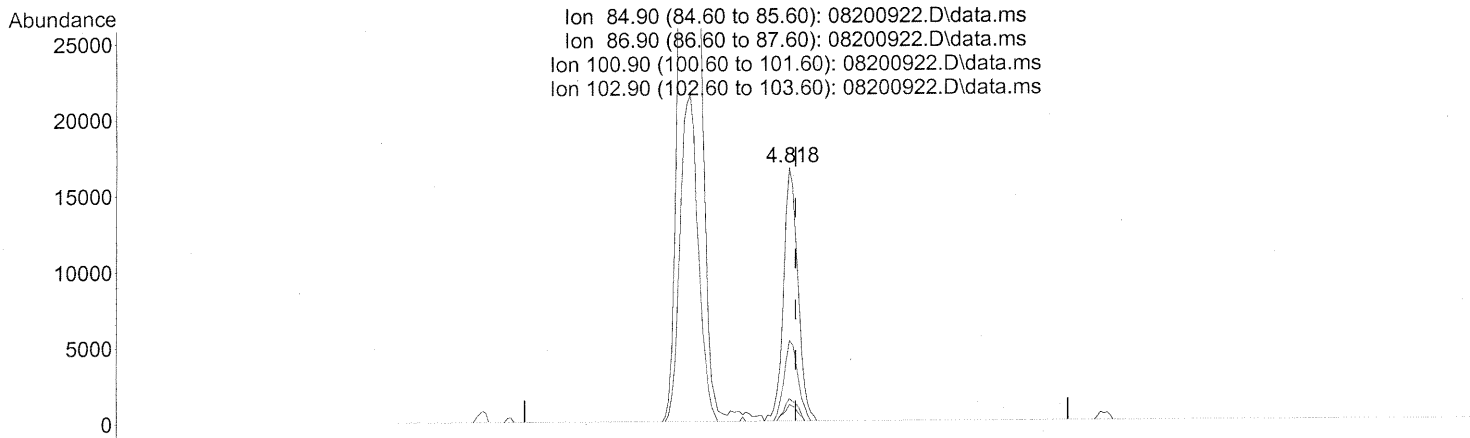
WA 8/22/09

R 8/20/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
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 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.011) 1.00ng

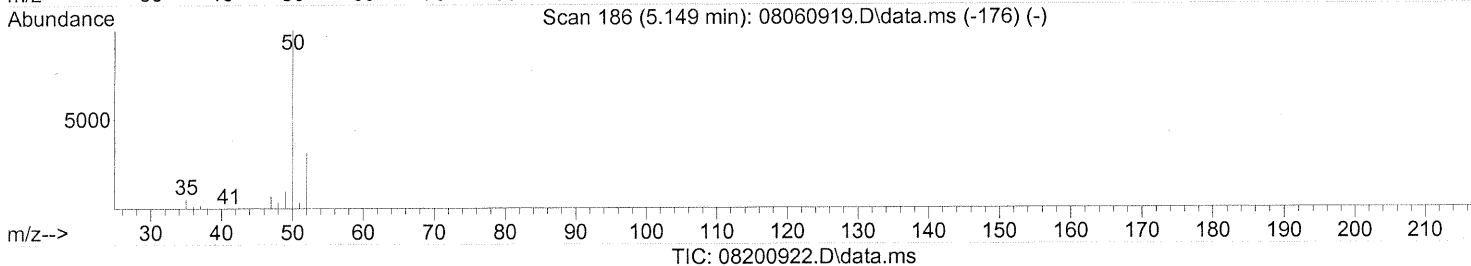
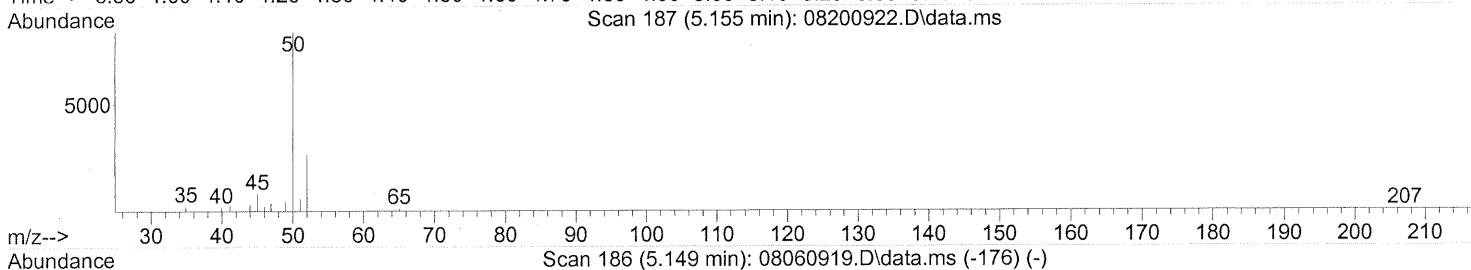
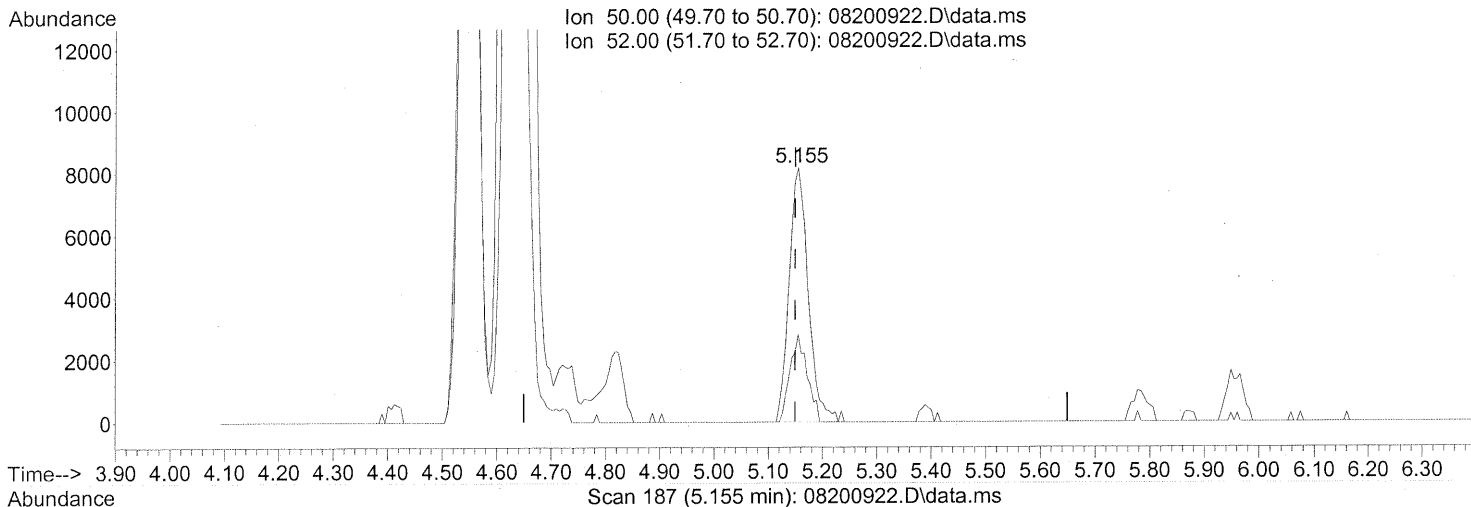
response 30844

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	30.98
100.90	8.80	8.12
102.90	5.20	5.70

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



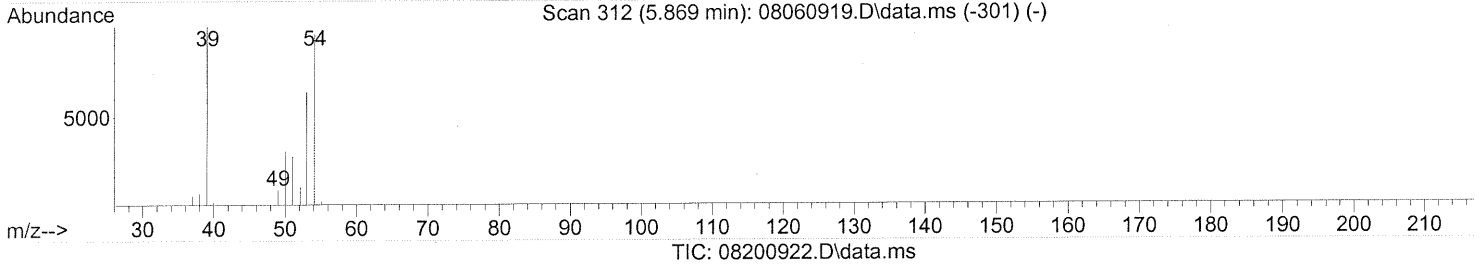
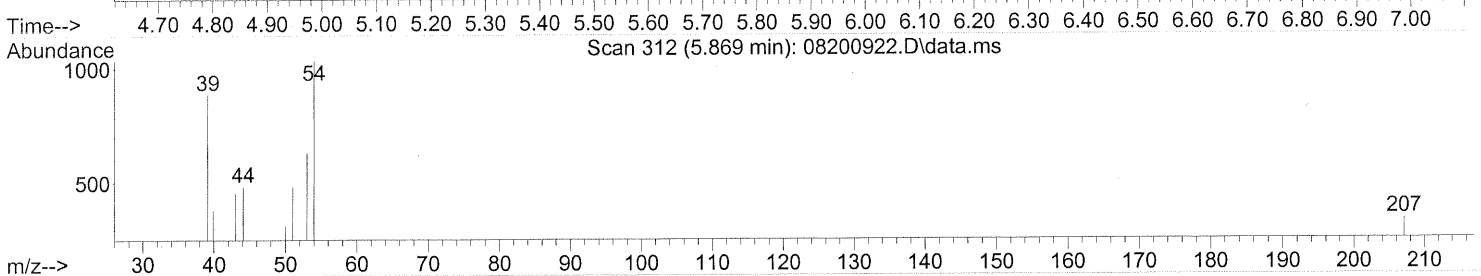
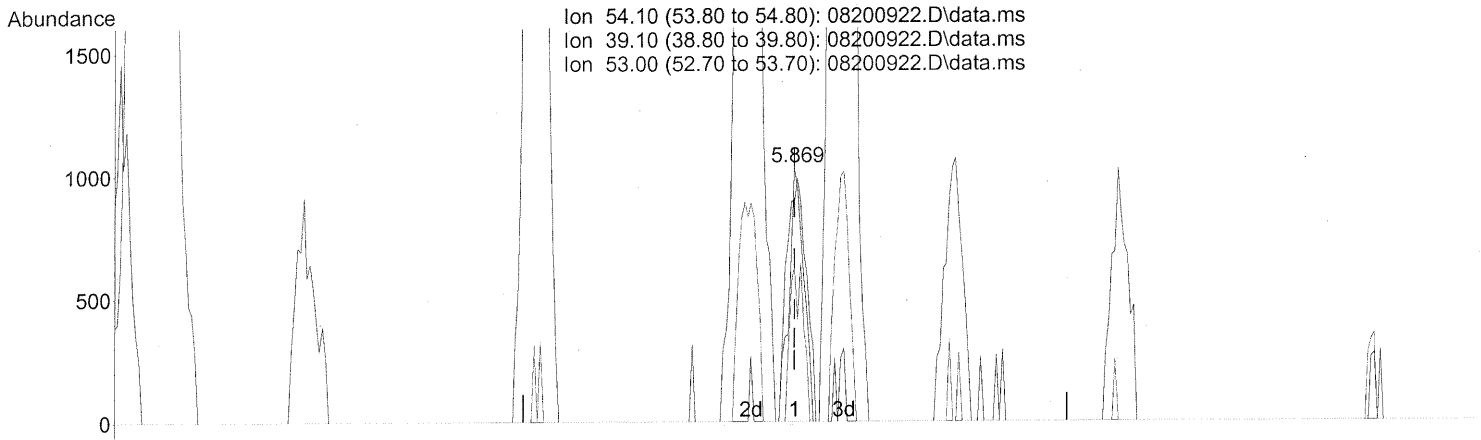
(4) Chloromethane (T)
 5.155min (+0.006) 0.97ng
 response 20118

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.869min (-0.000) 0.14ng

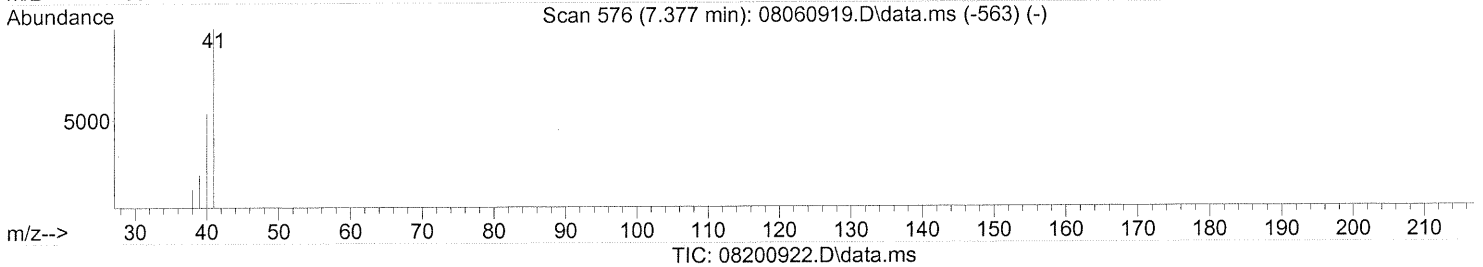
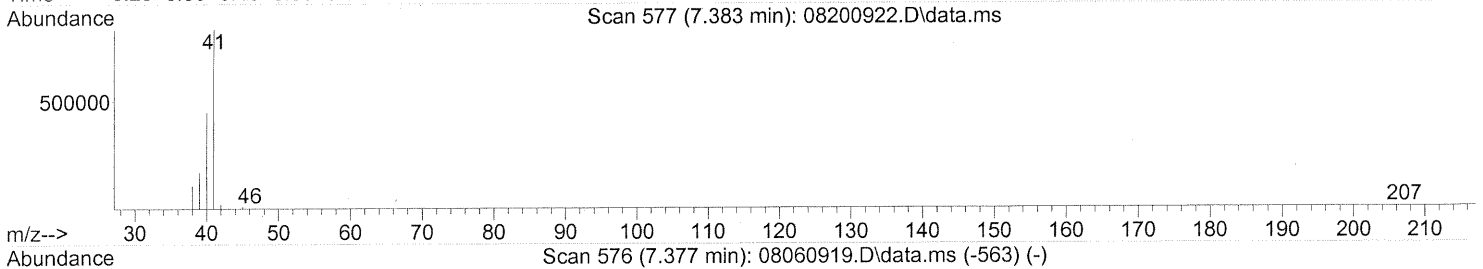
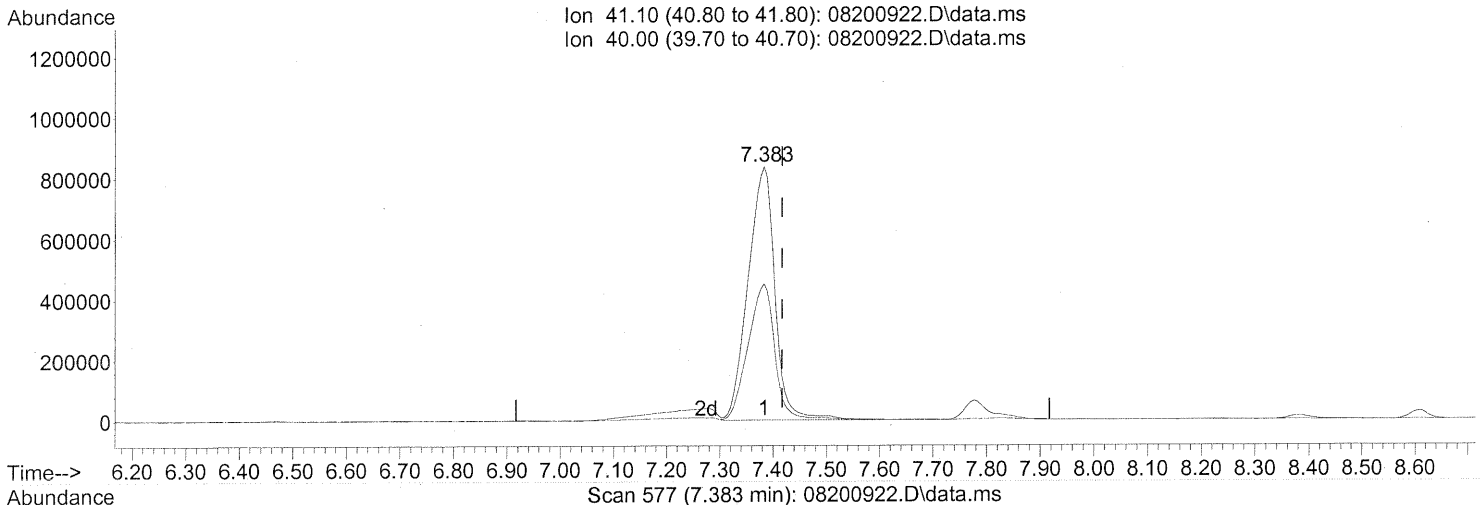
response 1953

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	128.47#
53.00	69.50	55.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



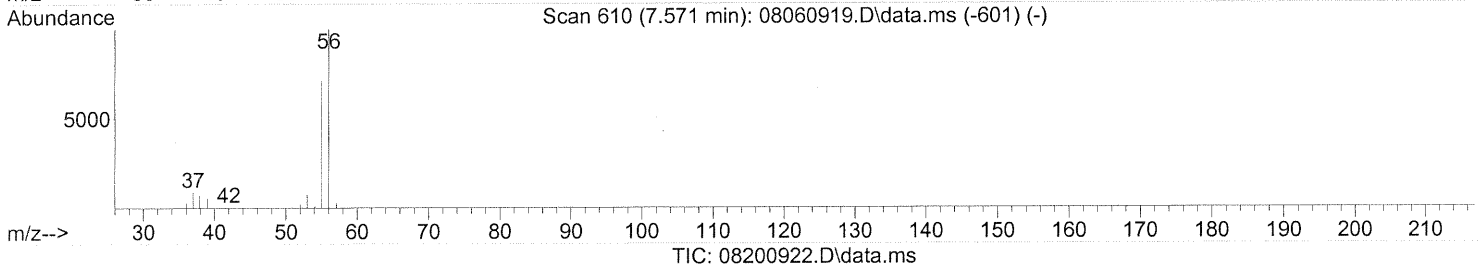
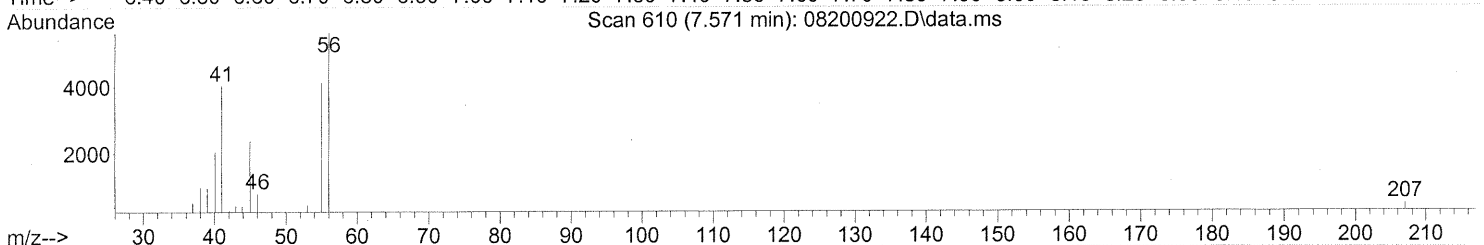
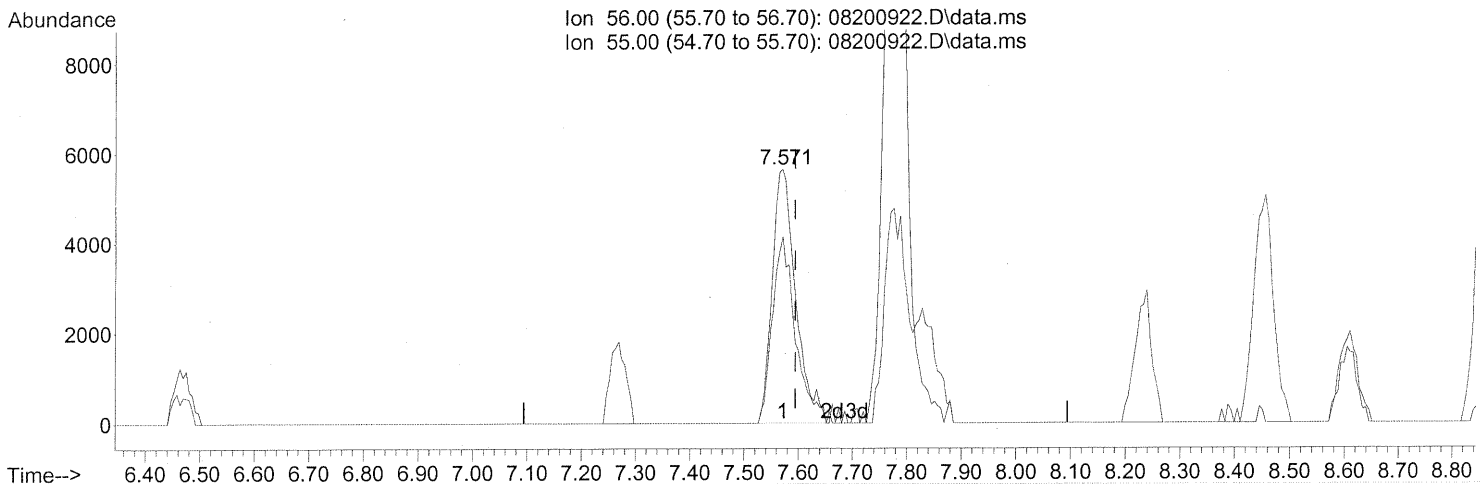
(11) Acetonitrile (T)
7.383min (-0.034) 83.98ng
response 2943258

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



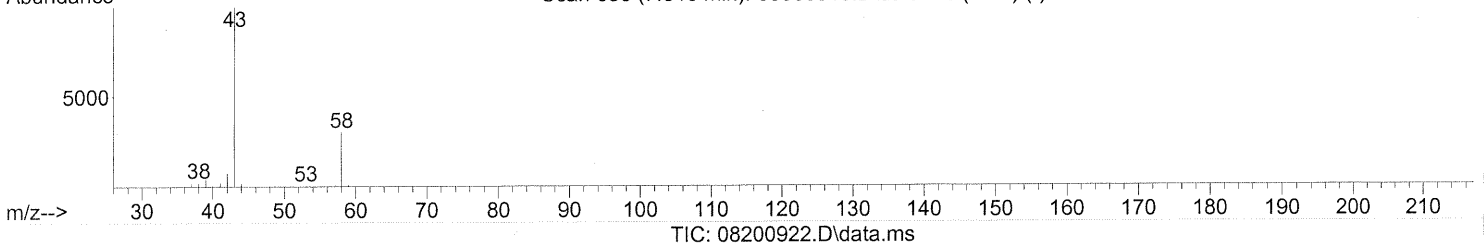
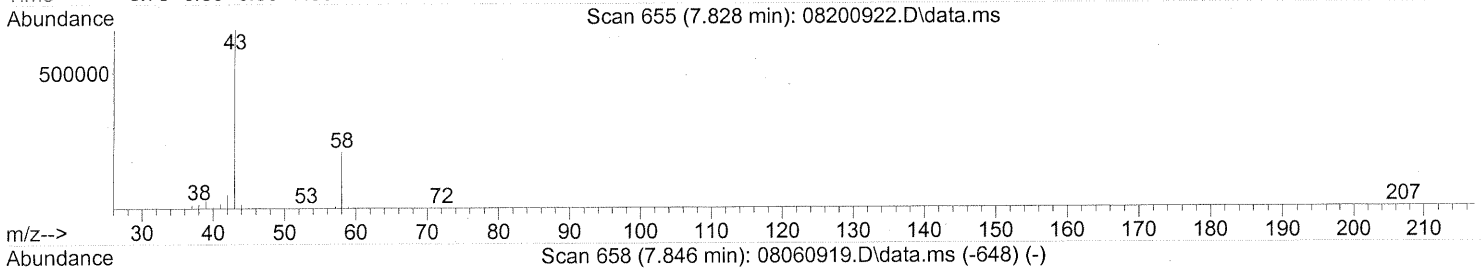
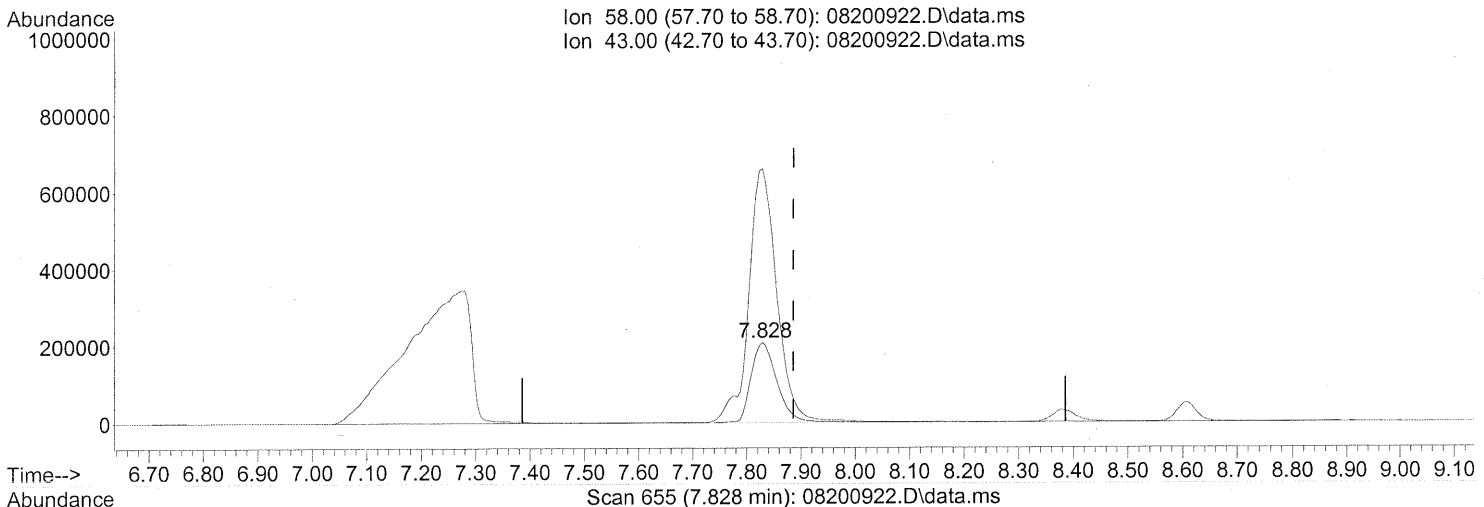
(12) Acrolein (T)
 7.571min (-0.023) 1.87ng
 response 17022

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	72.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



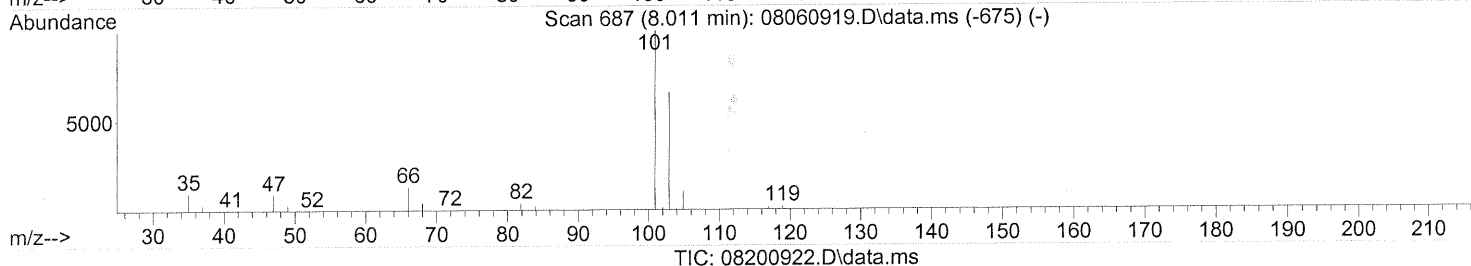
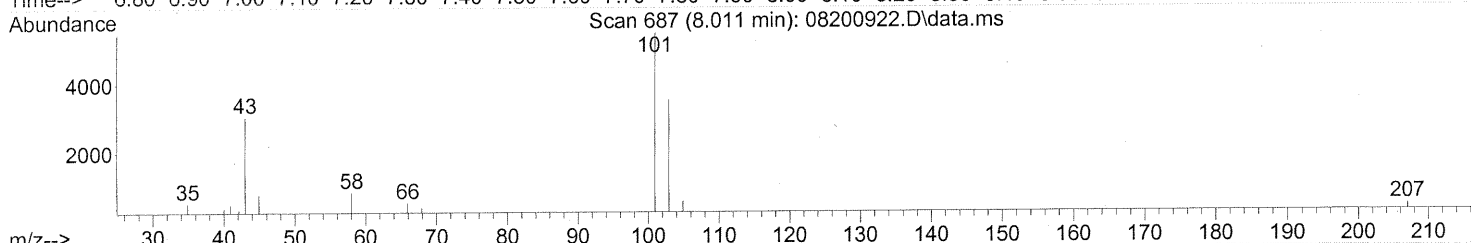
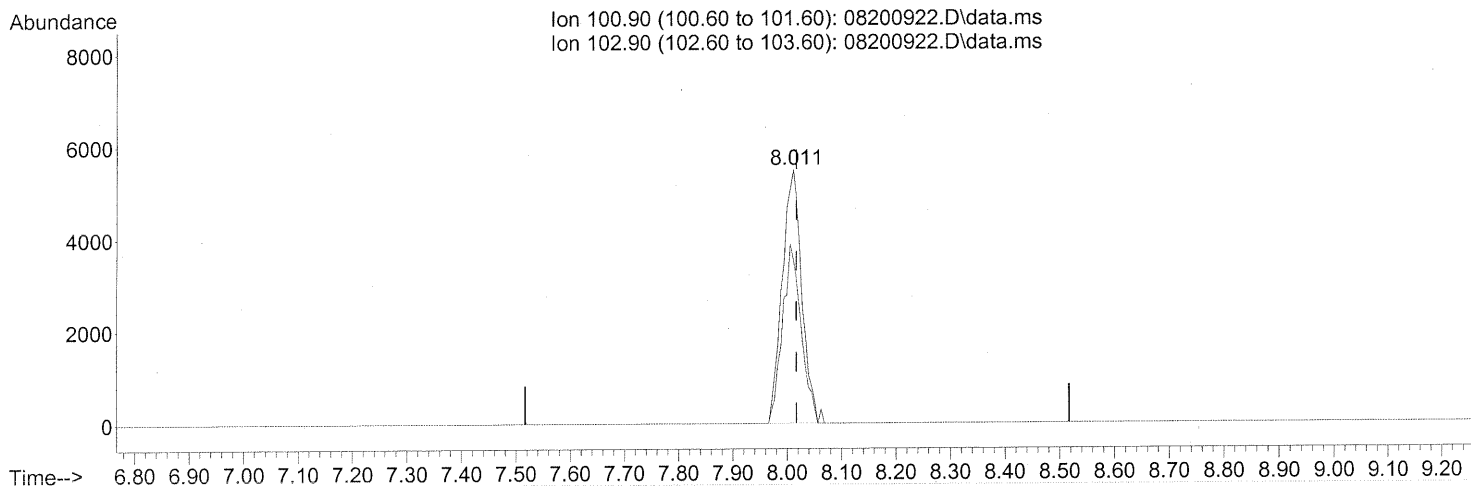
(13) Acetone (T)
 7.828min (-0.058) 61.18ng
 response 690816

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	344.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.49ng

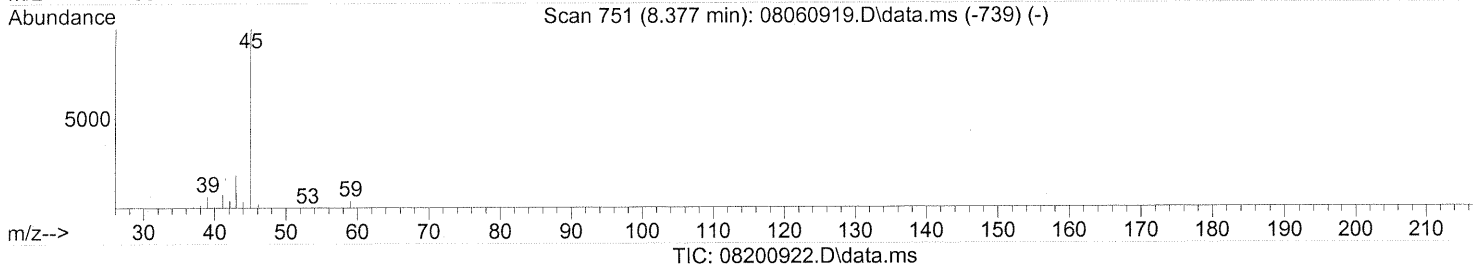
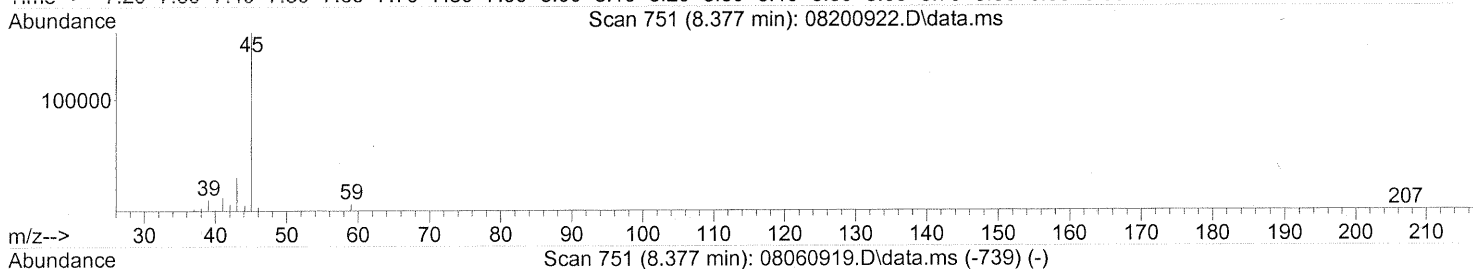
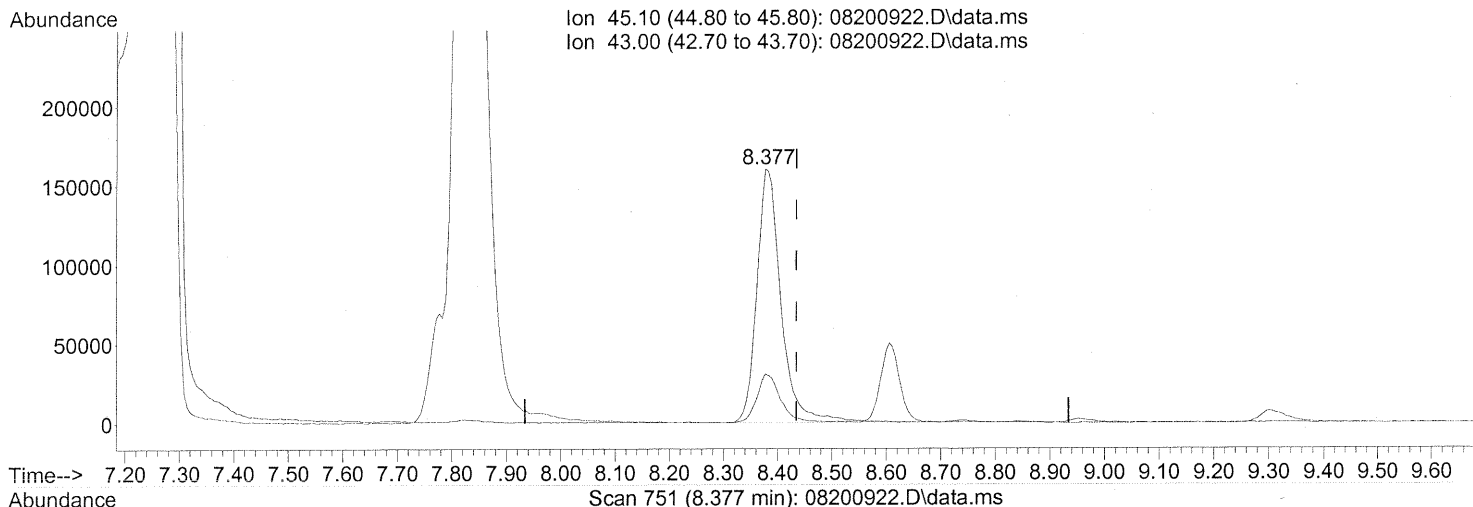
response 13776

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.377min (-0.057) 11.26ng

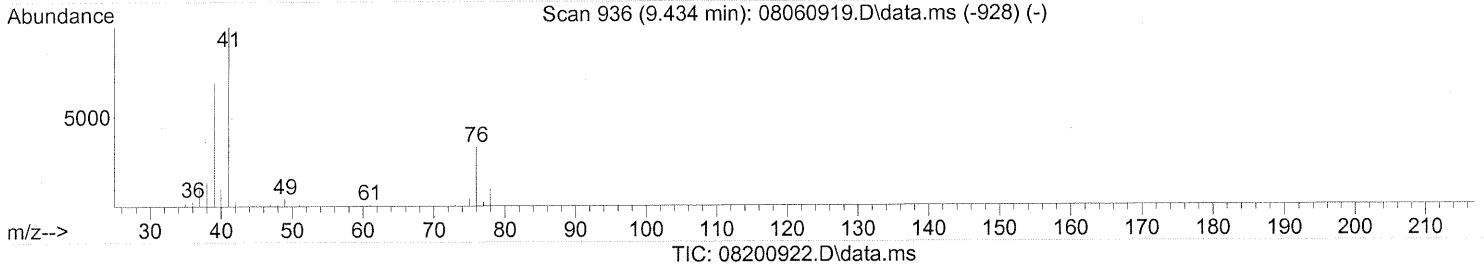
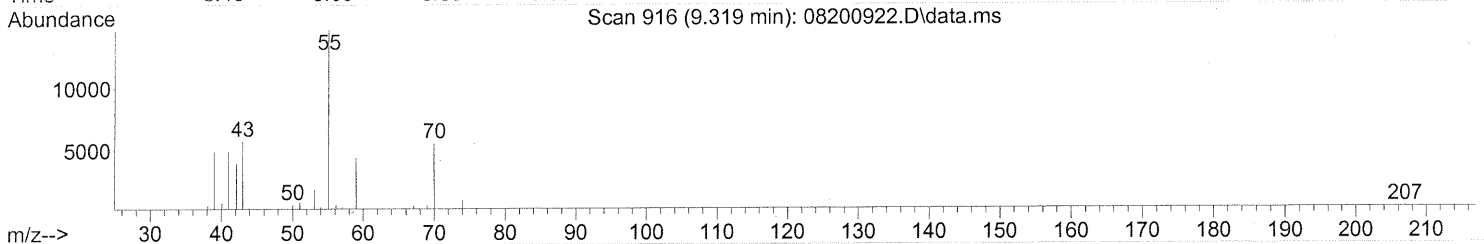
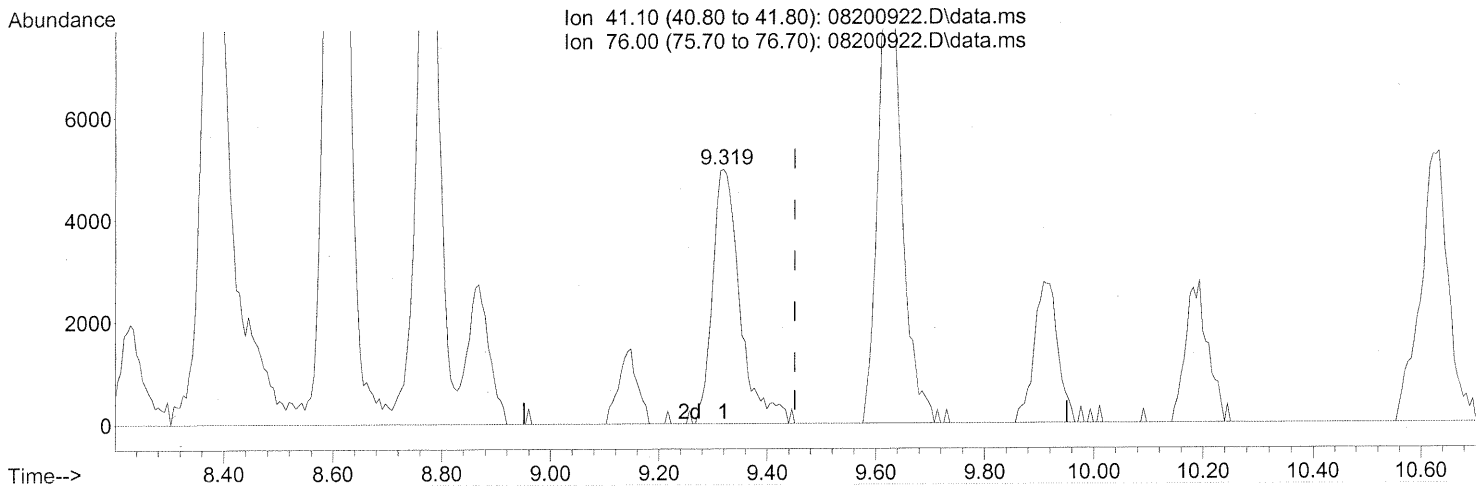
response 499799

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	19.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.319min (-0.131) 0.61ng

response 17691

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

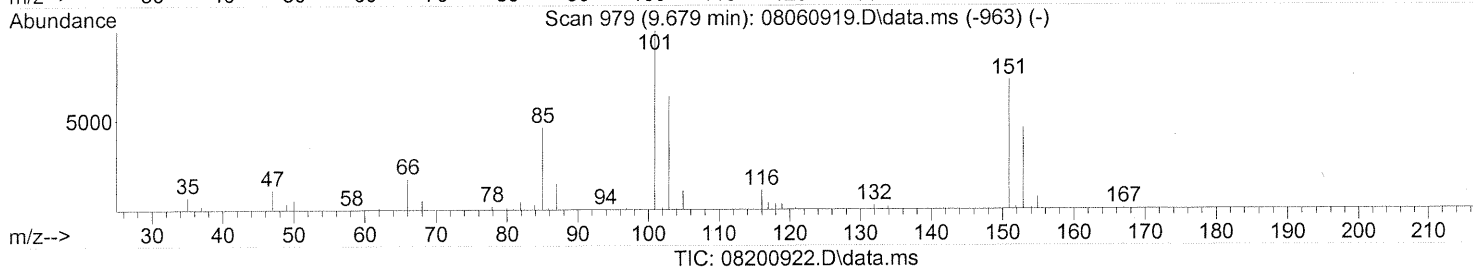
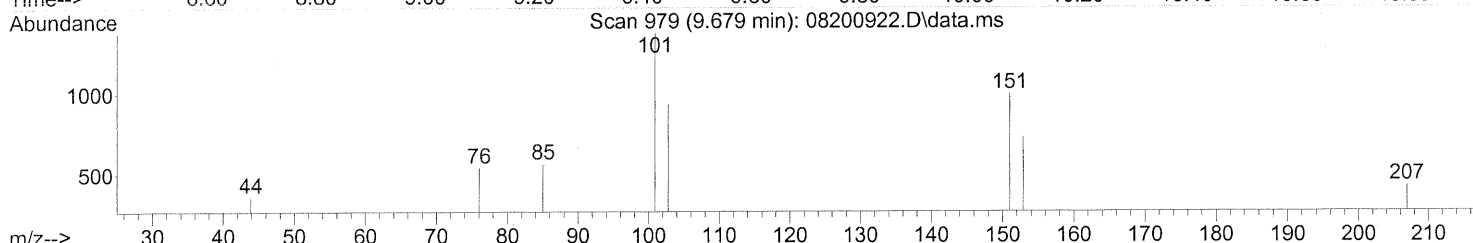
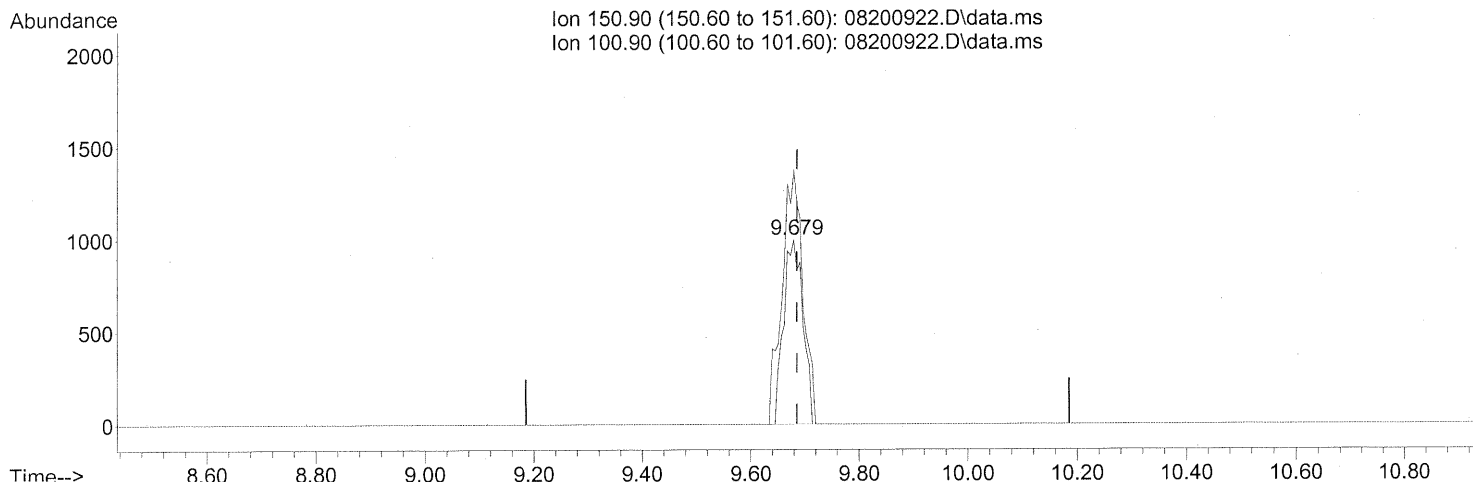
8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
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Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.24ng

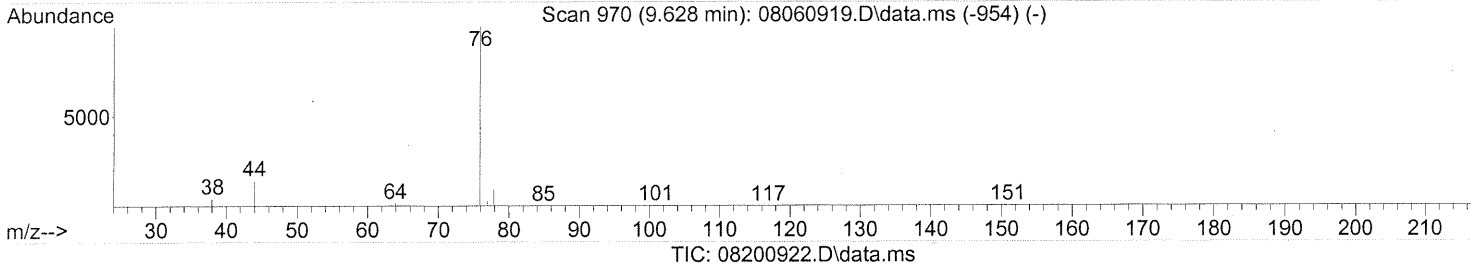
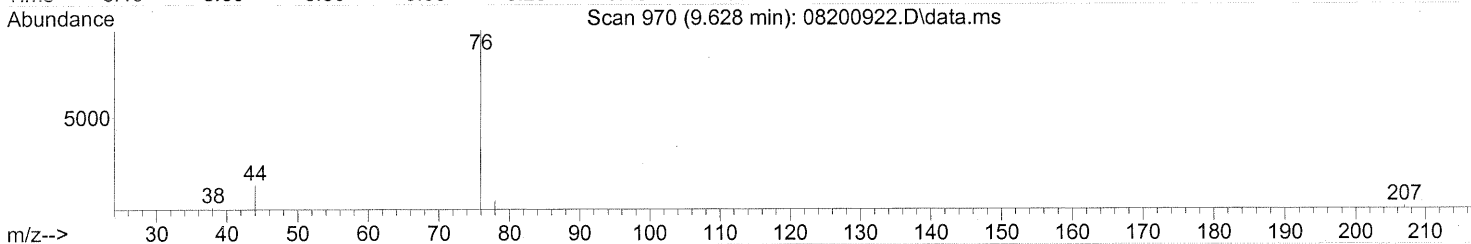
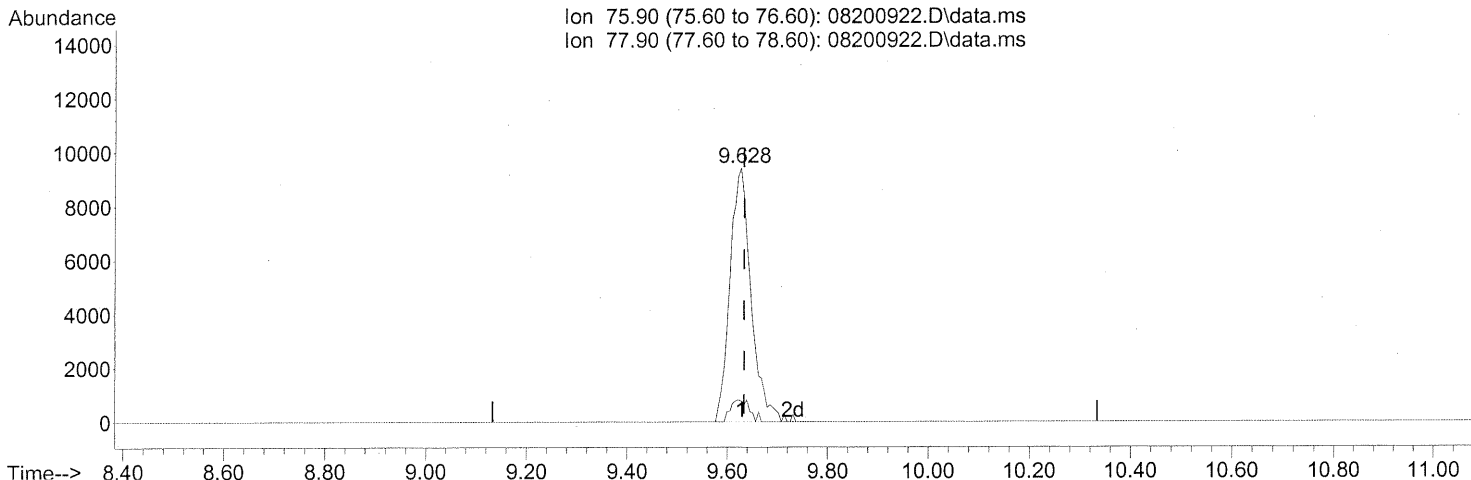
response 2434

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	151.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
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Misc : Environmental Health 101400
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Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.628min (-0.006) 0.51ng

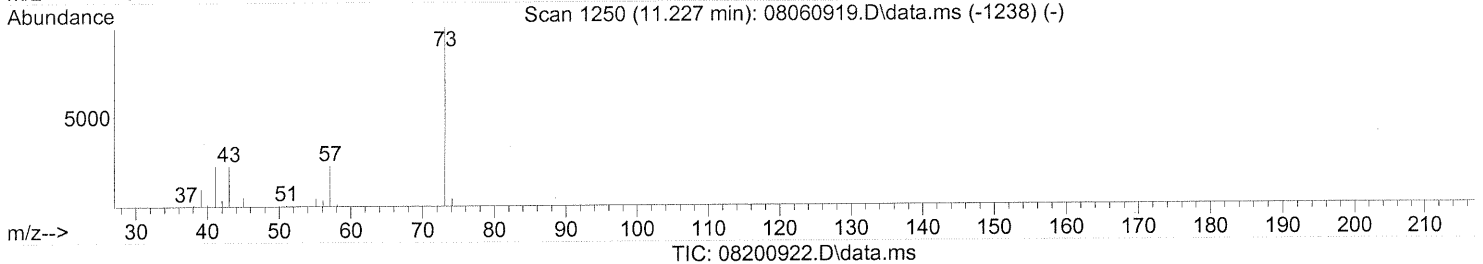
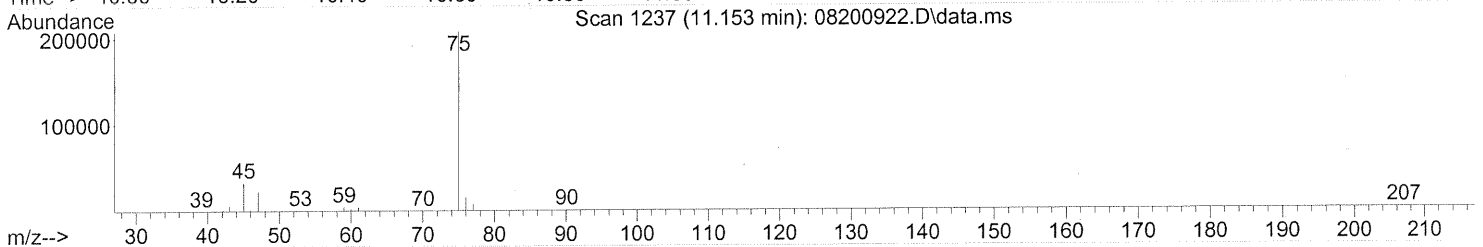
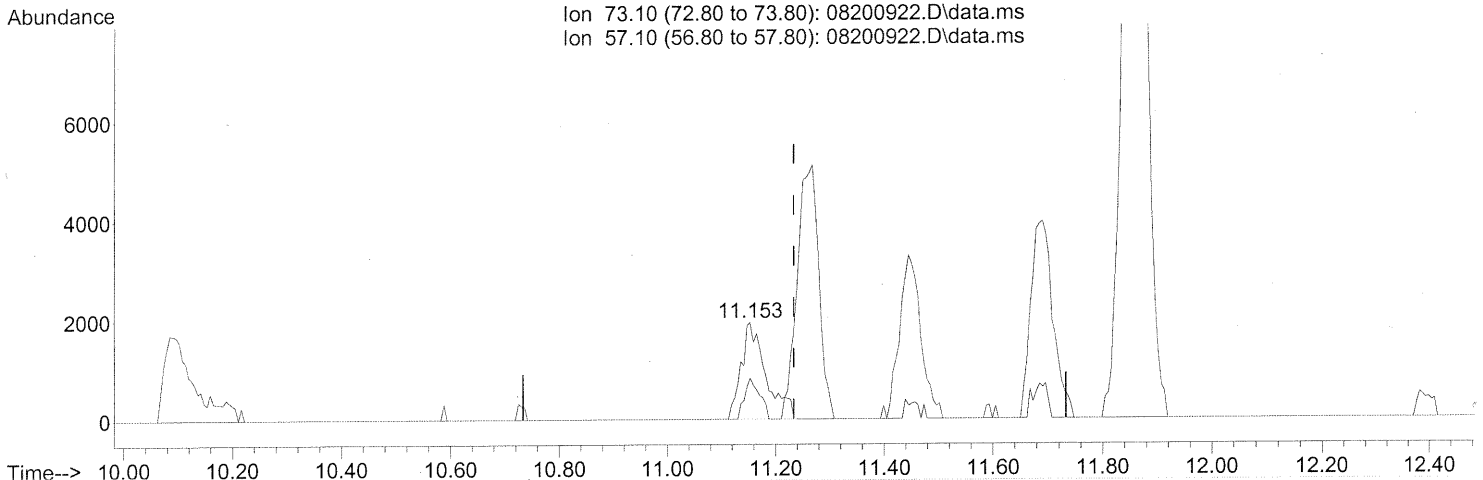
response 27516

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	7.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.153min (-0.080) 0.14ng

response 6103

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	26.00
0.00	0.00	0.00
0.00	0.00	0.00

TP

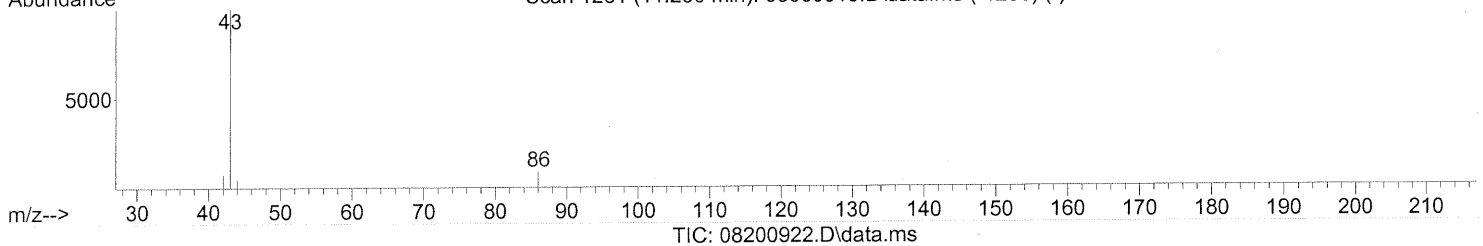
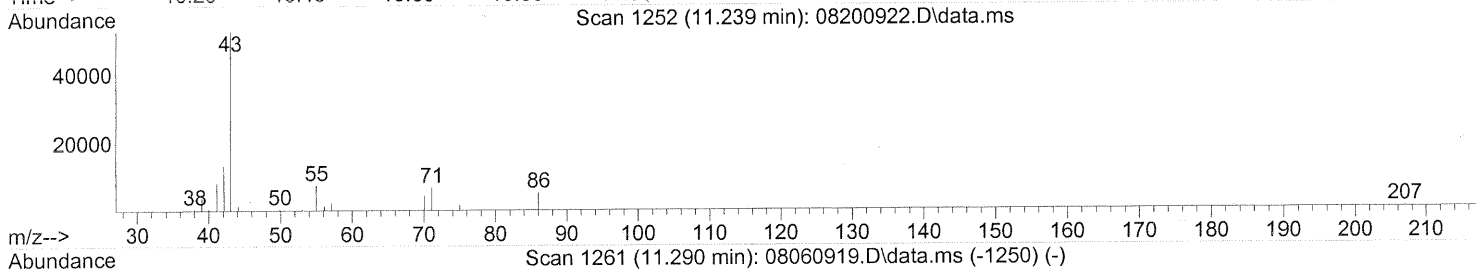
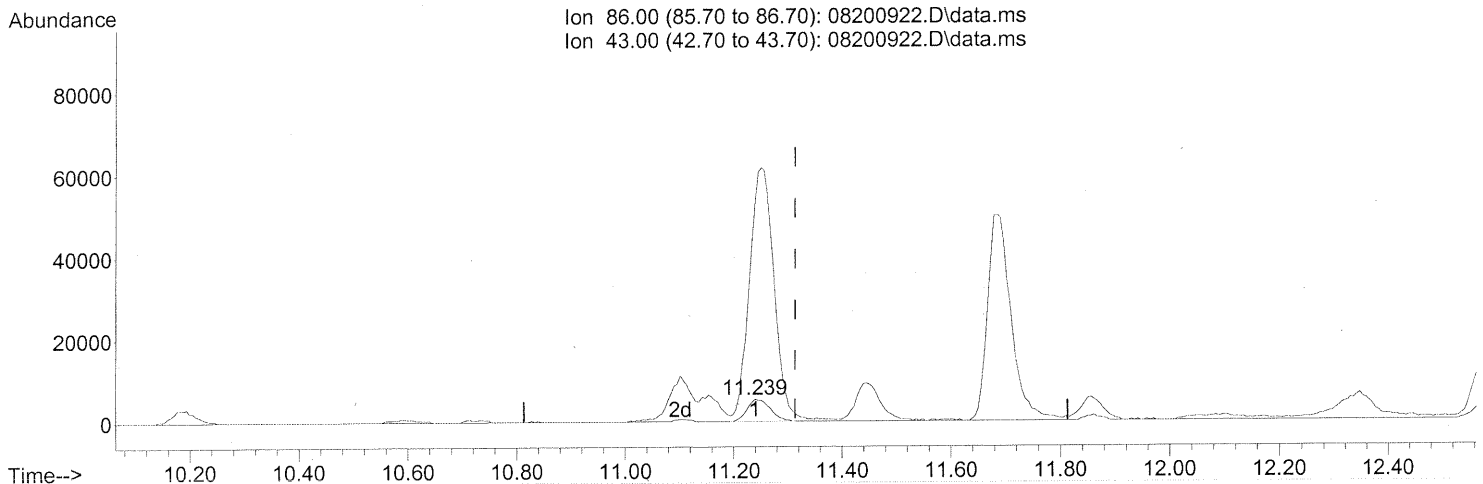
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.239min (-0.074) 6.81ng

response 15646

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1221.27
0.00	0.00	0.00
0.00	0.00	0.00

TP

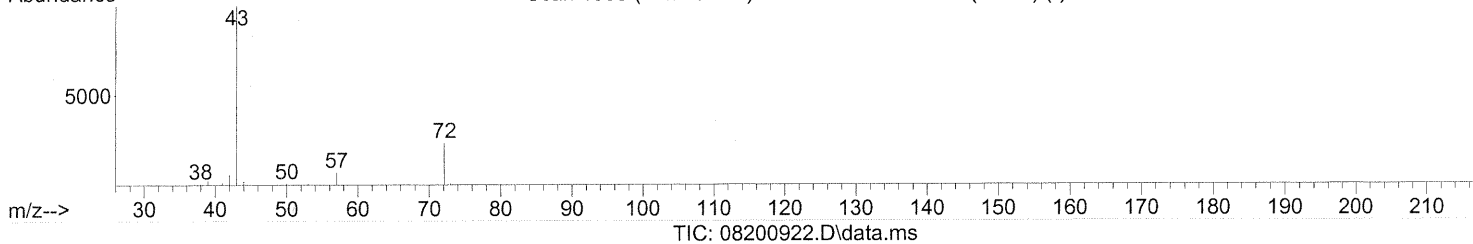
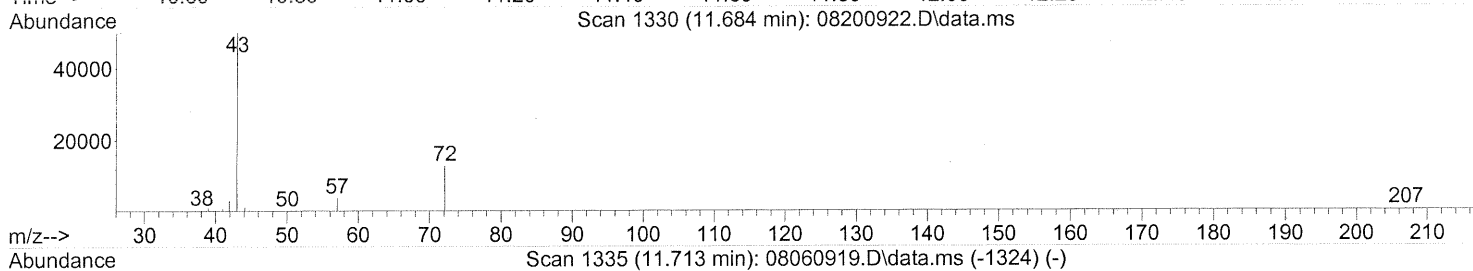
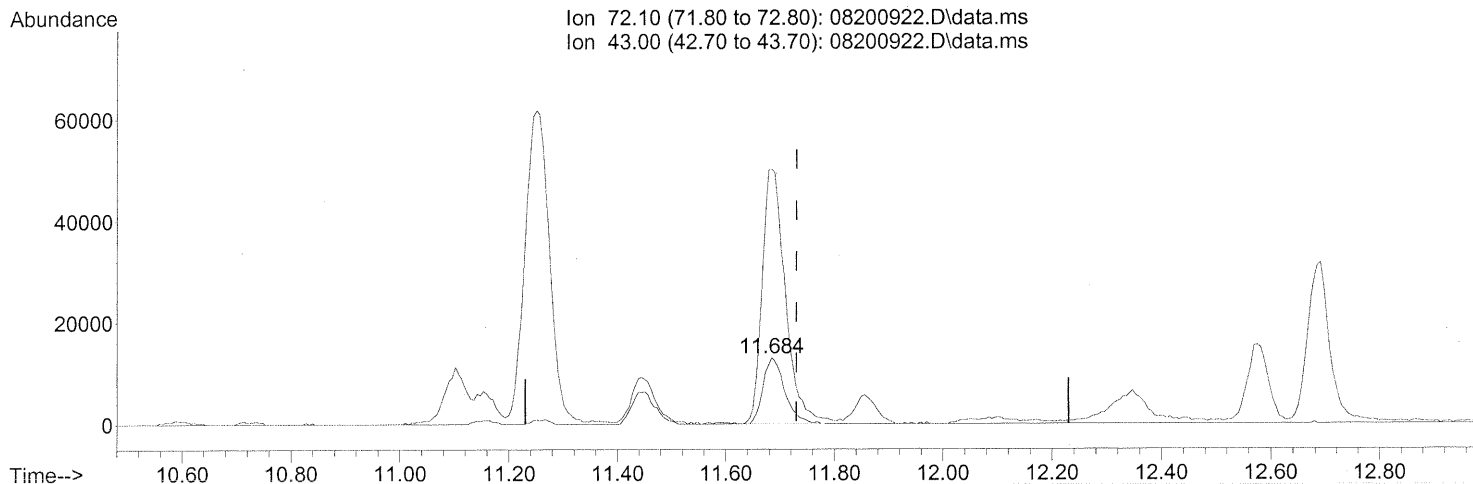
DA 8/22/09

R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.684min (-0.046) 3.53ng

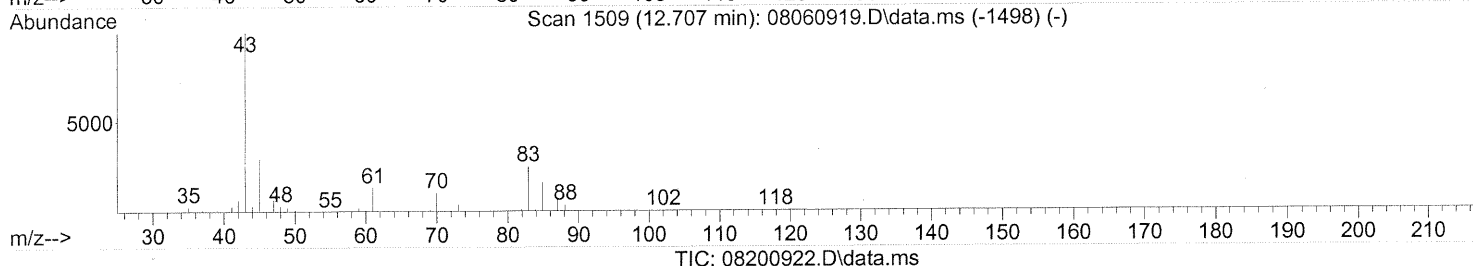
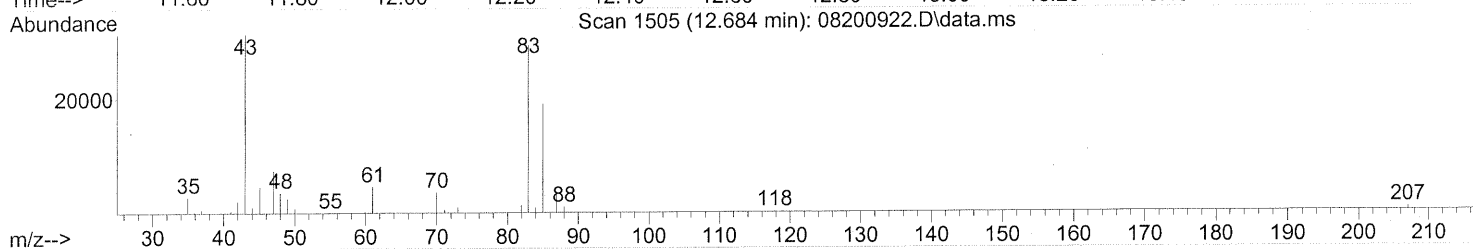
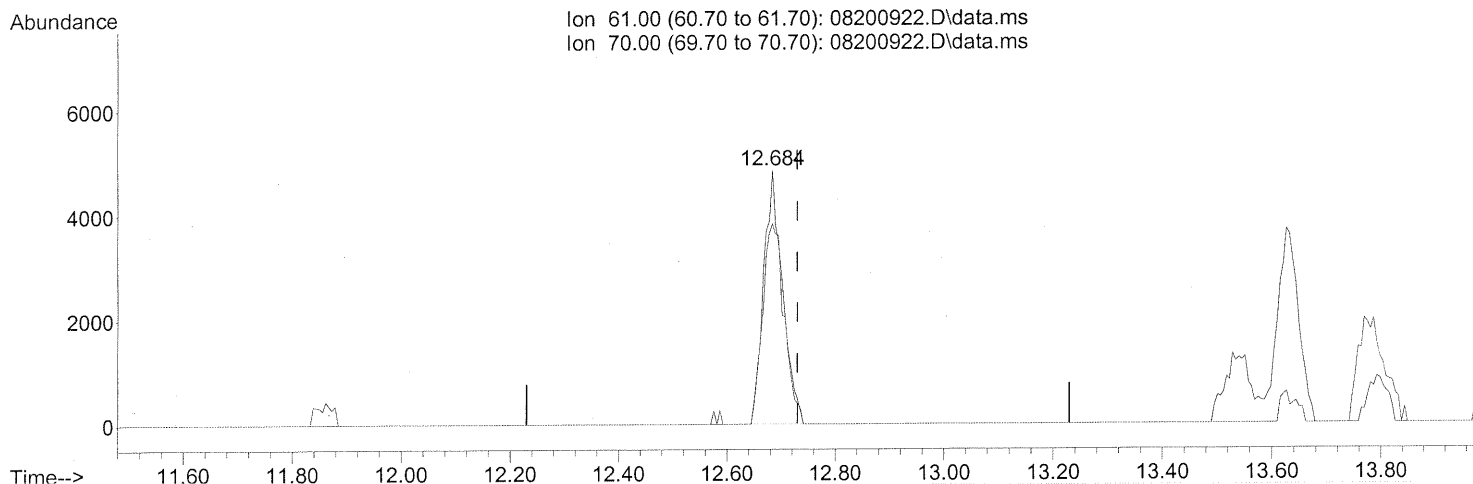
response 36037

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	415.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



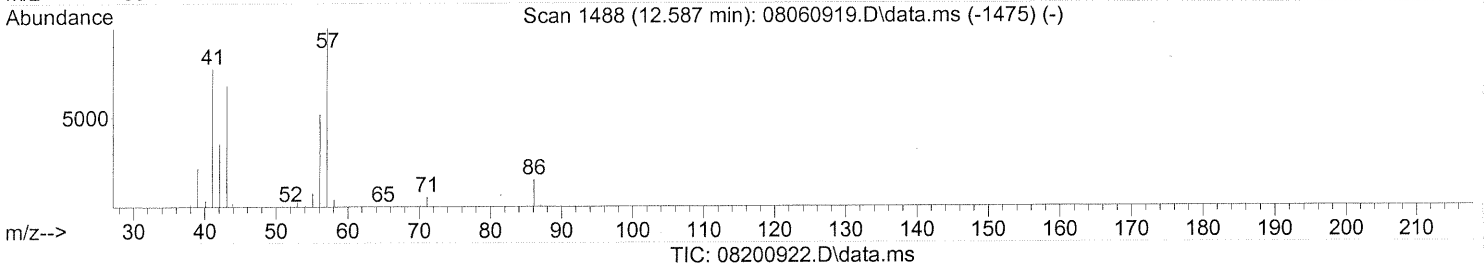
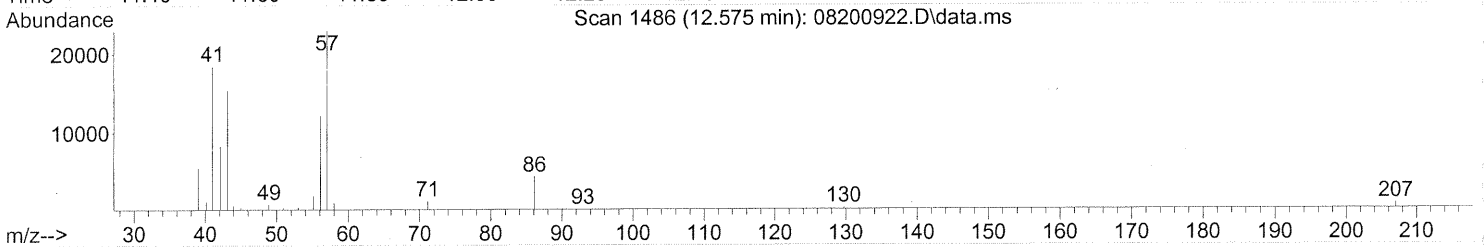
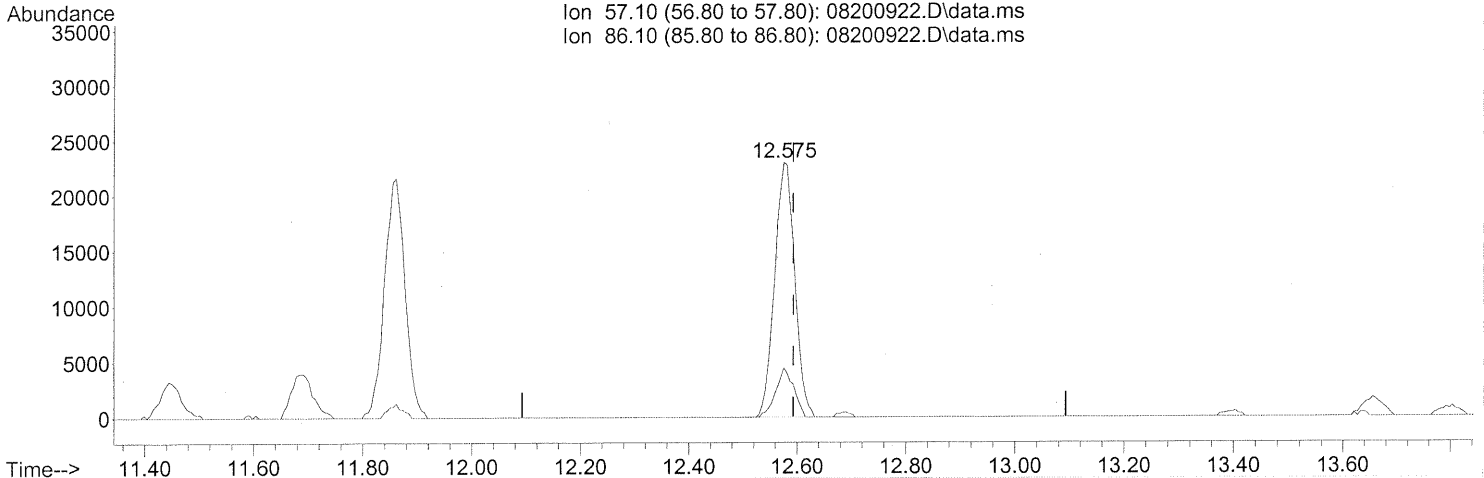
(30) Ethyl Acetate (T)
 12.684min (-0.046) 2.22ng
 response 11784

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	89.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

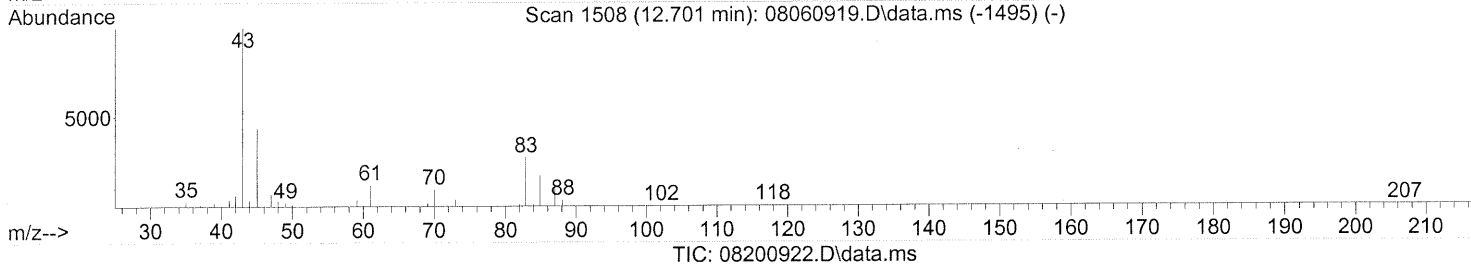
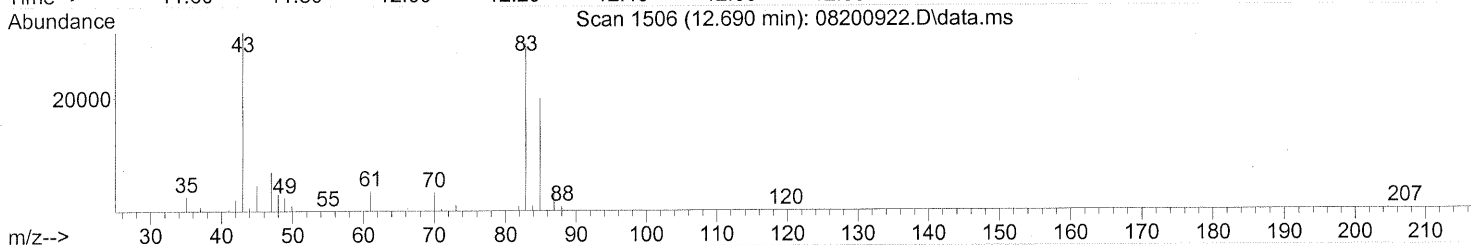
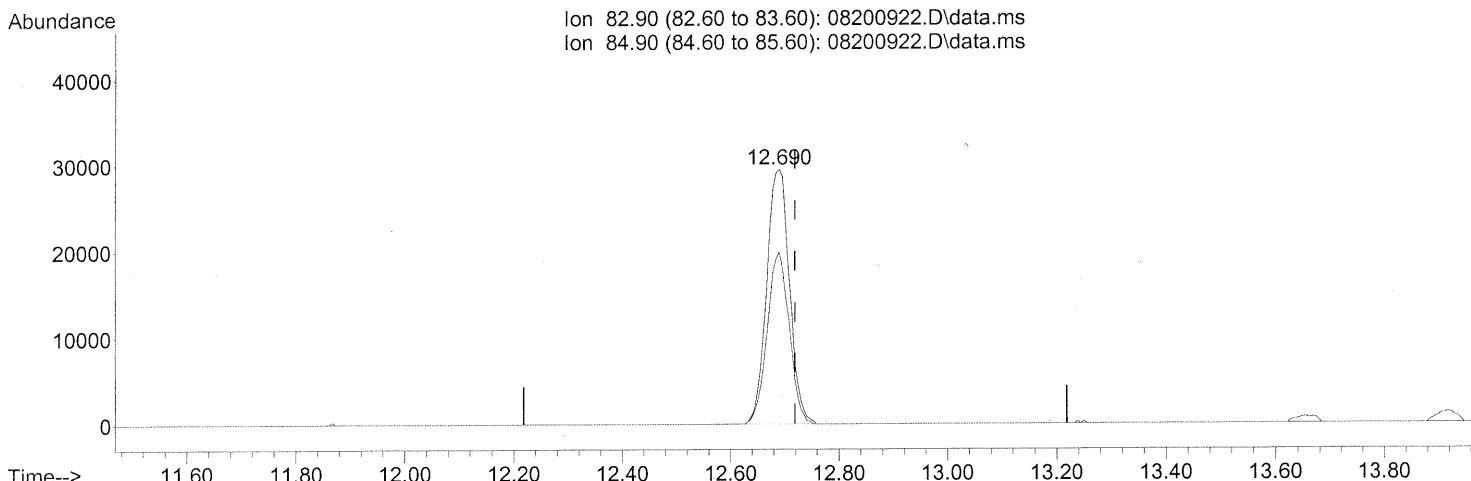


(31) n-Hexane (T)
12.575min (-0.017) 2.17ng
response 58873
Ion Exp% Act%
57.10 100 100
86.10 15.70 17.19
0.00 0.00 0.00
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.690min (-0.029) 3.59ng

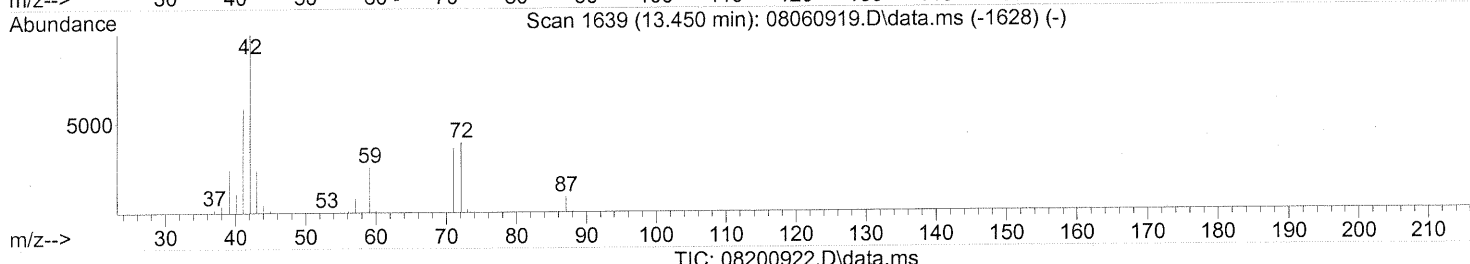
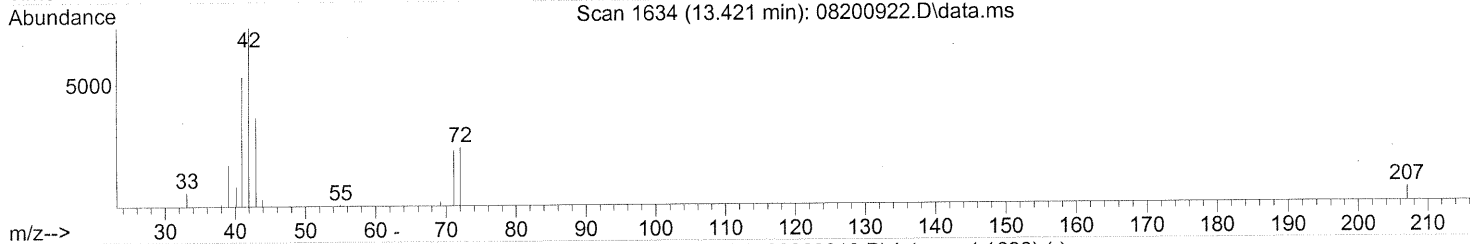
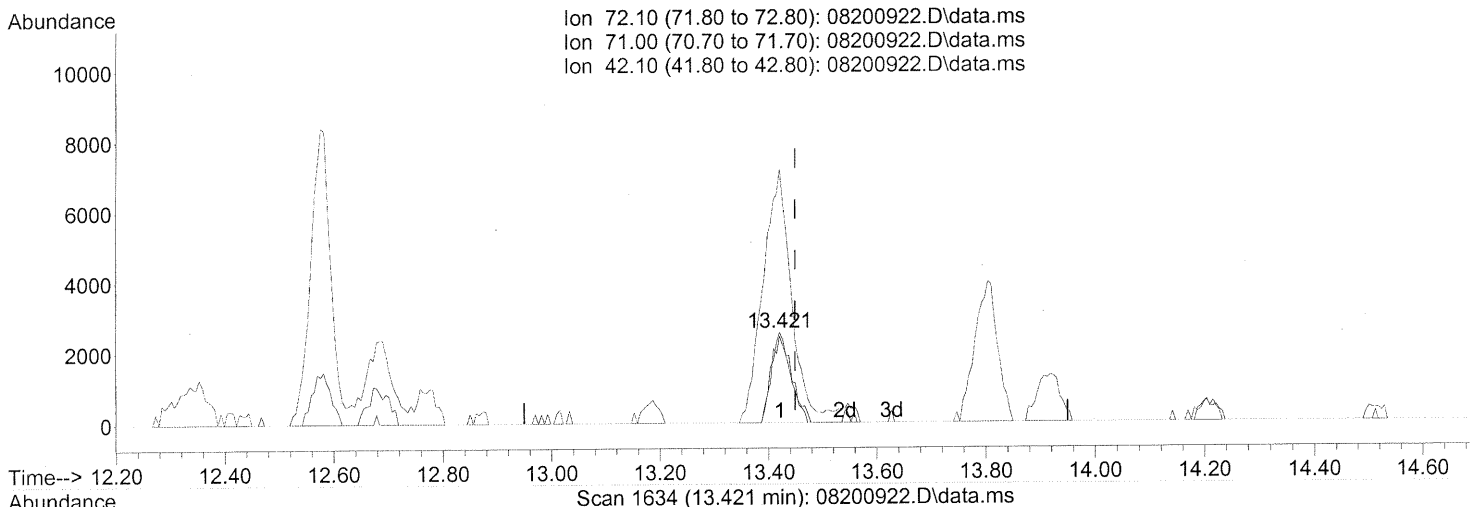
response 85815

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	65.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 0.60ng

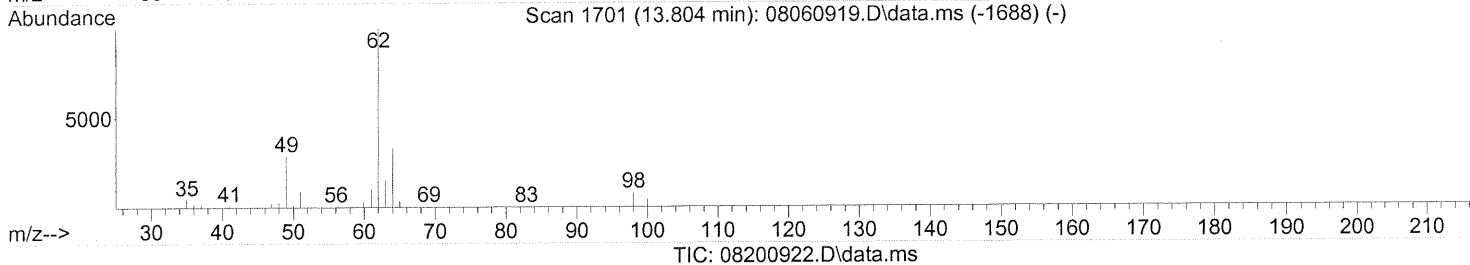
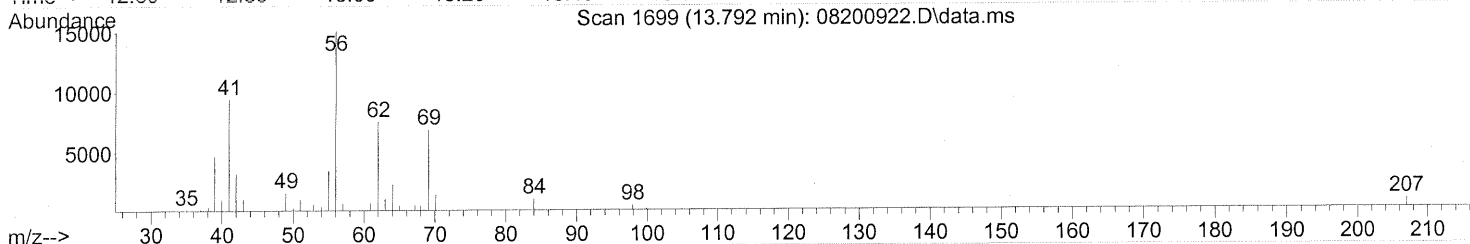
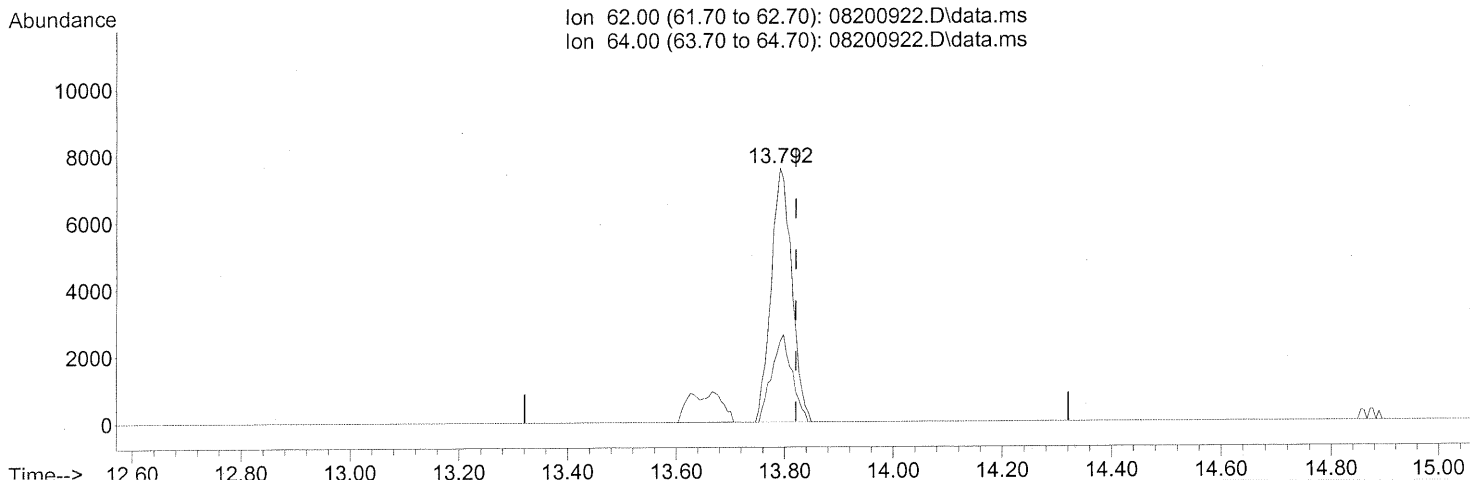
response 6500

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	96.18
42.10	253.40	417.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 0.92ng

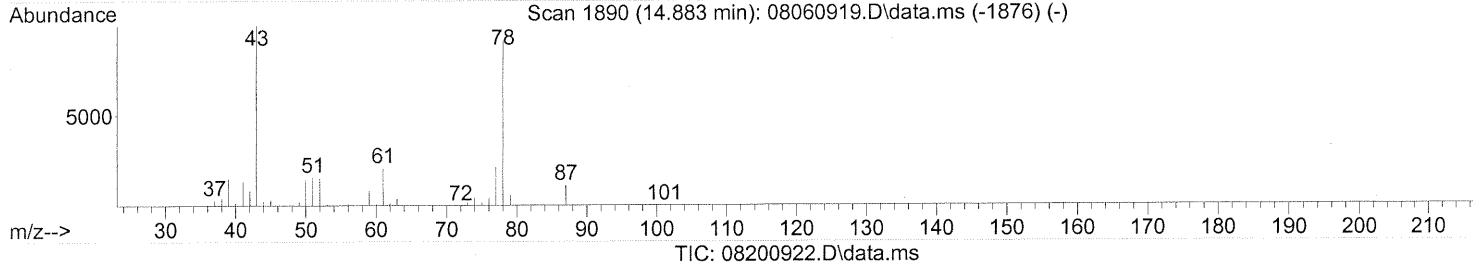
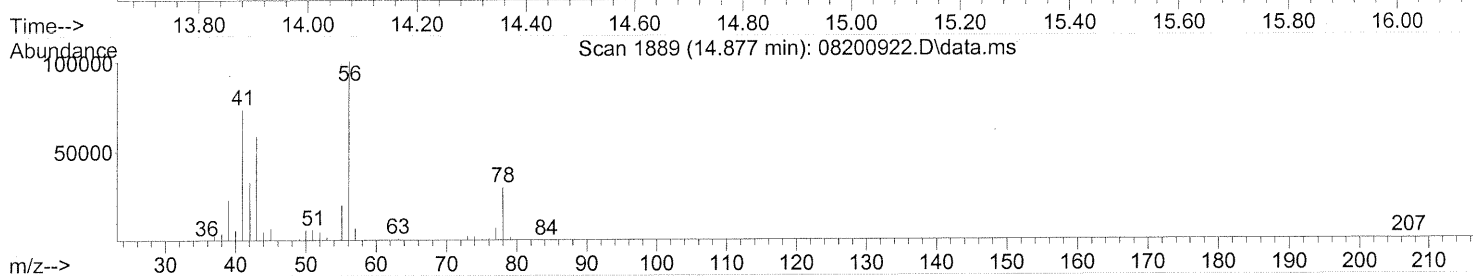
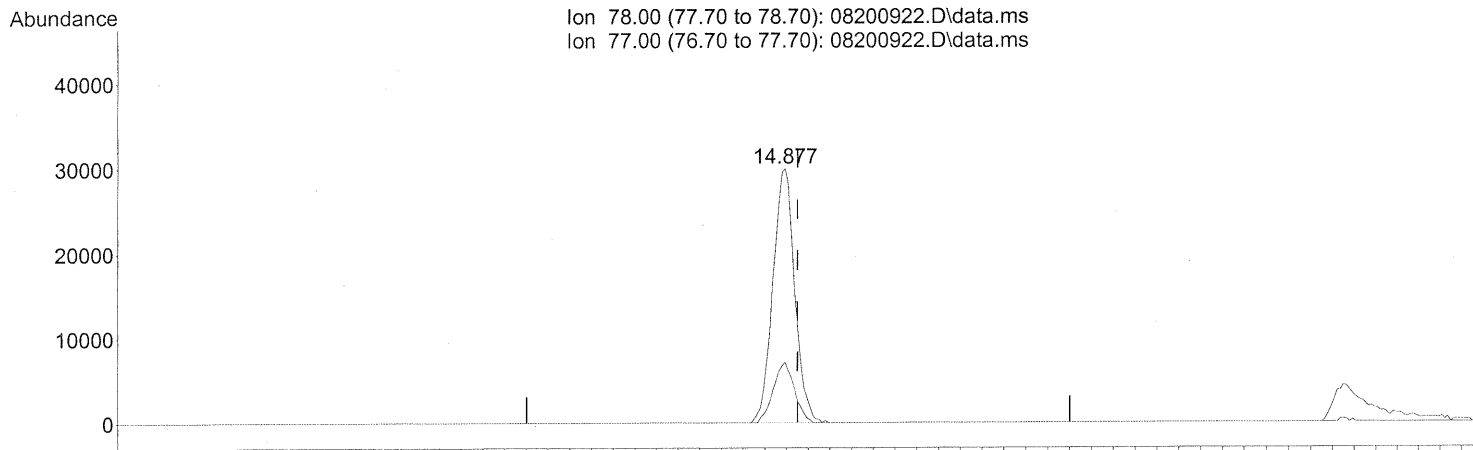
response 20055

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	33.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



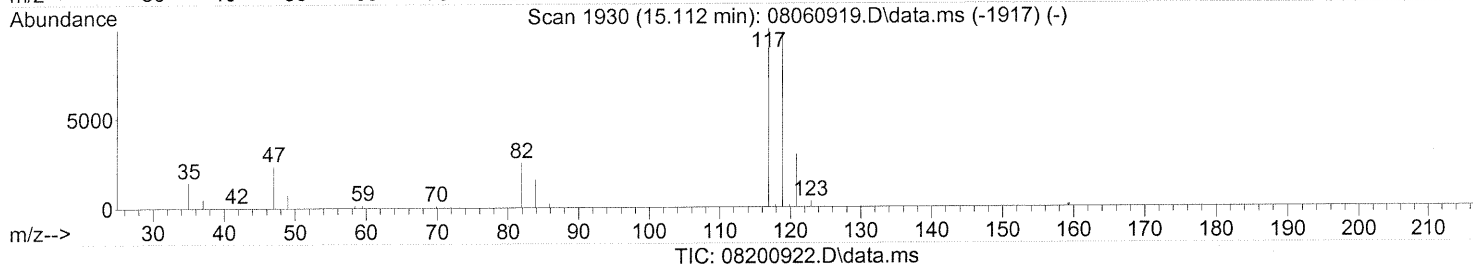
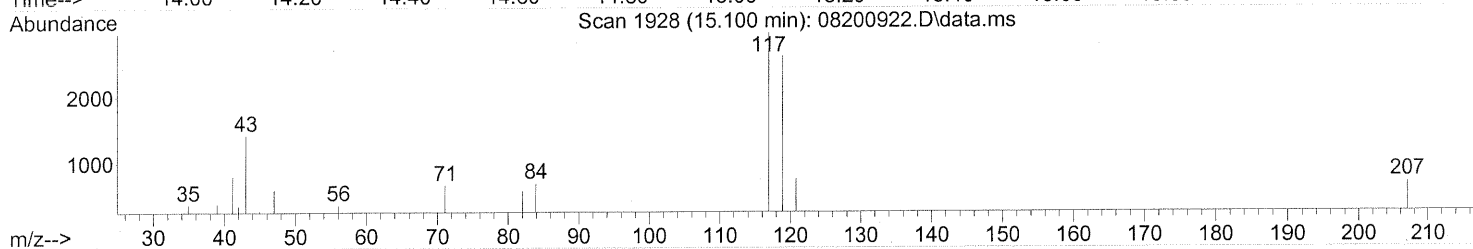
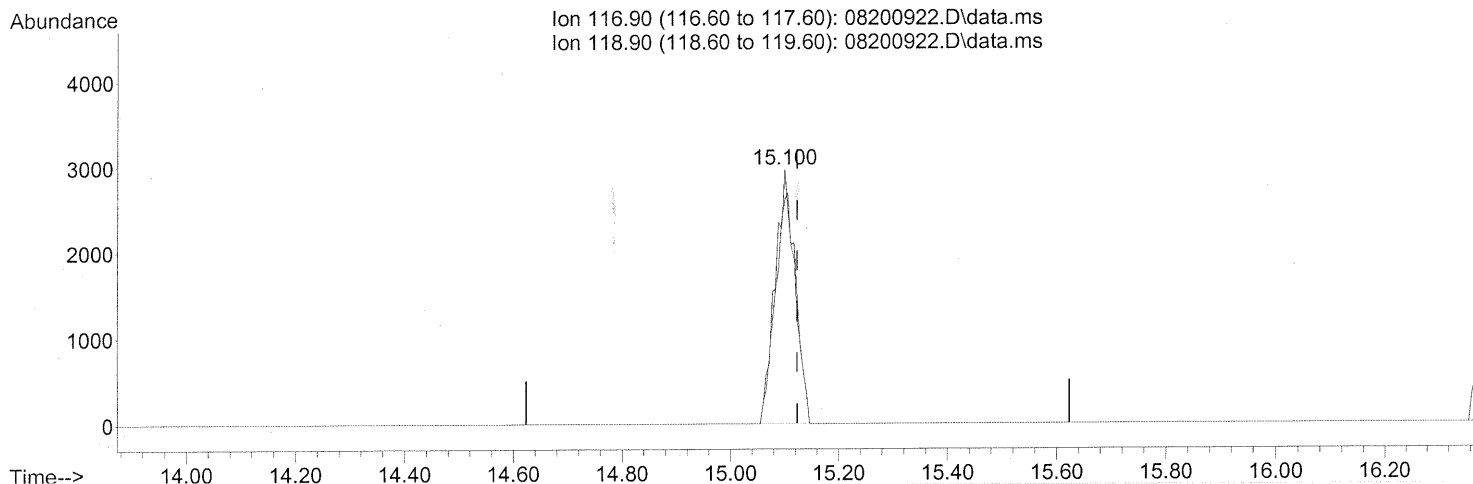
(41) Benzene (T)
 14.877min (-0.023) 1.36ng
 response 83759

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.39ng

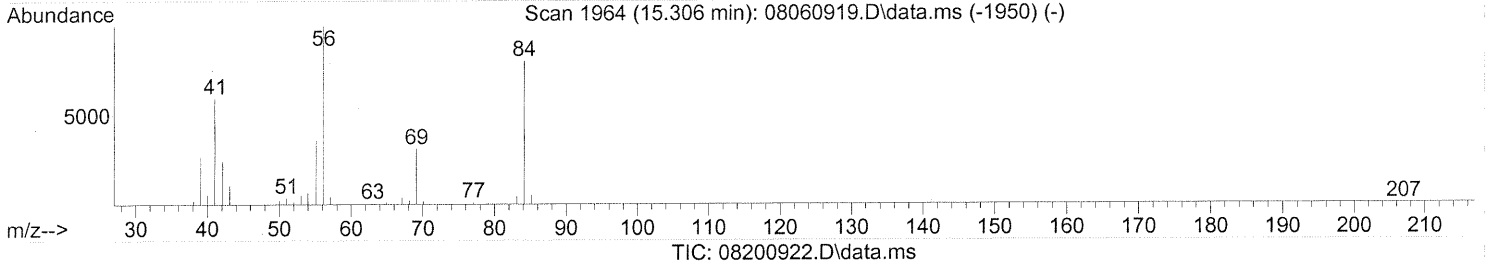
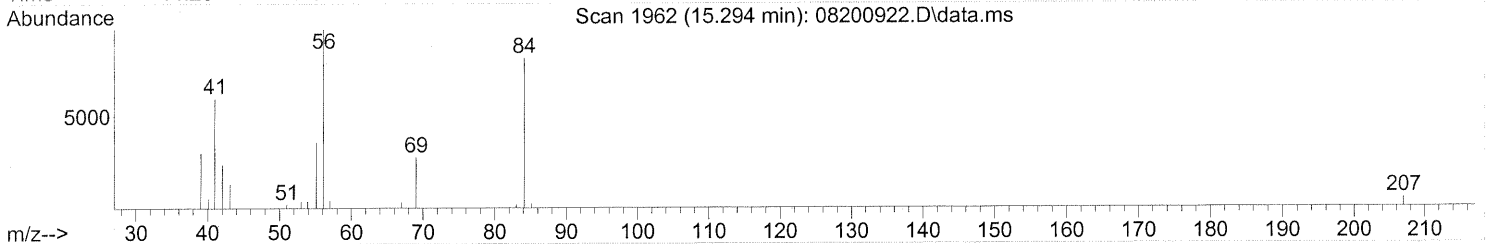
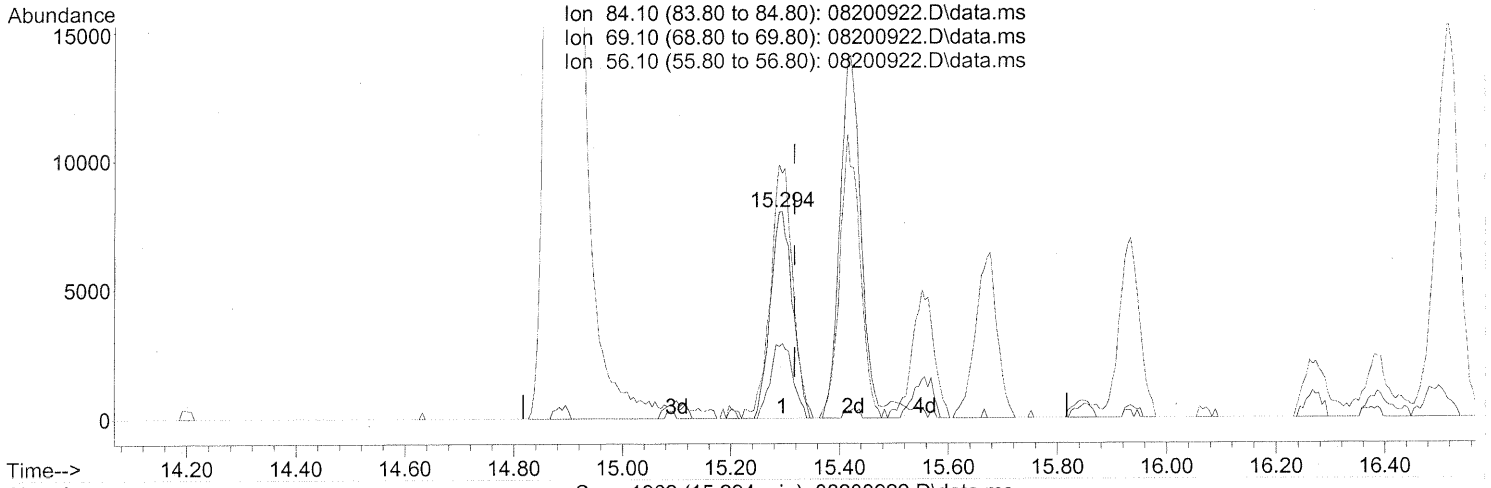
response 7617

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	93.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.294min (-0.023) 1.01ng

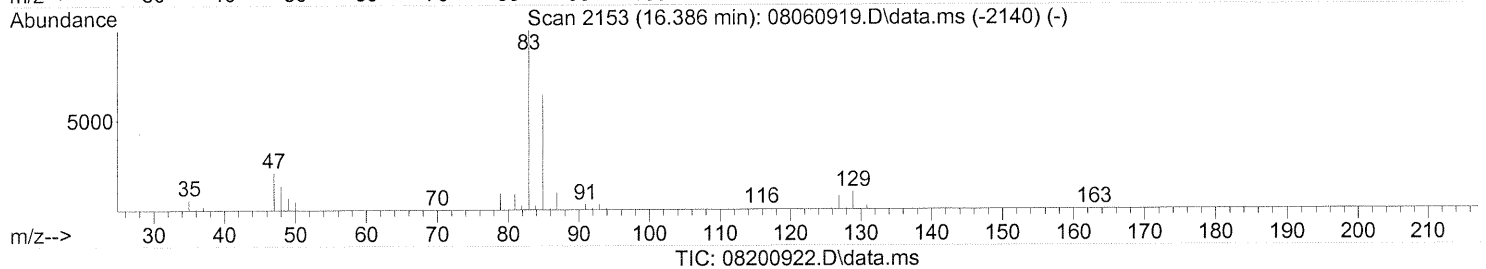
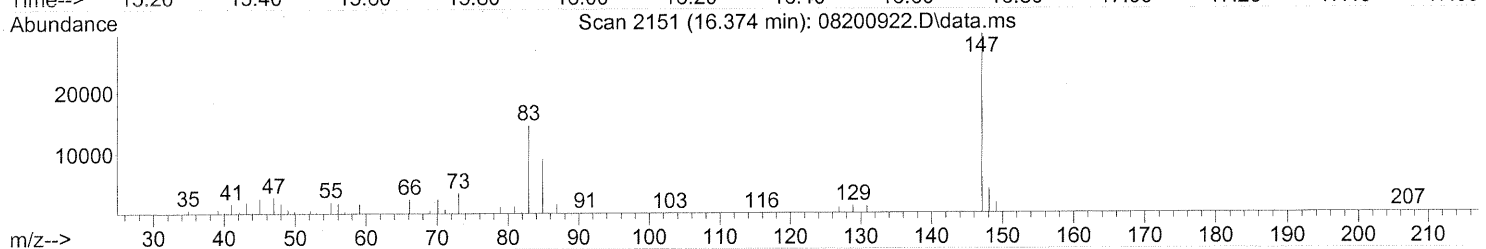
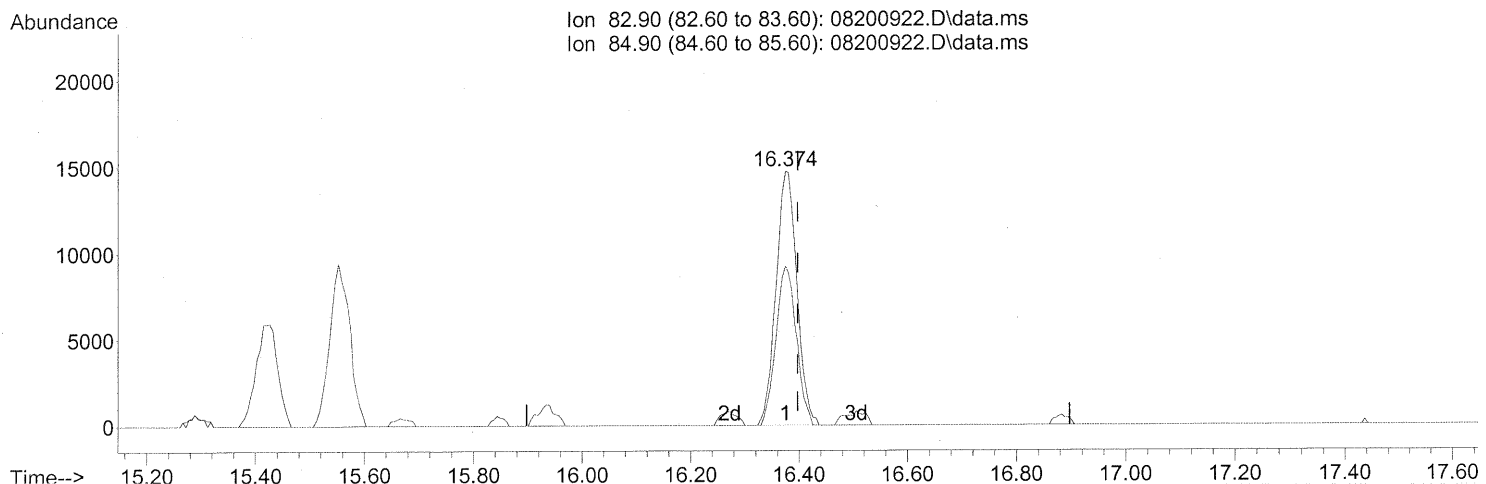
response 22847

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	36.78
56.10	127.50	123.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.374min (-0.023) 1.95ng

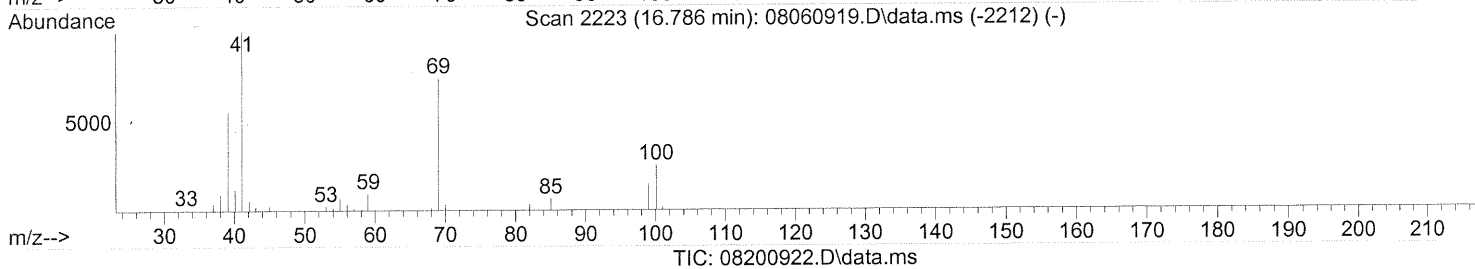
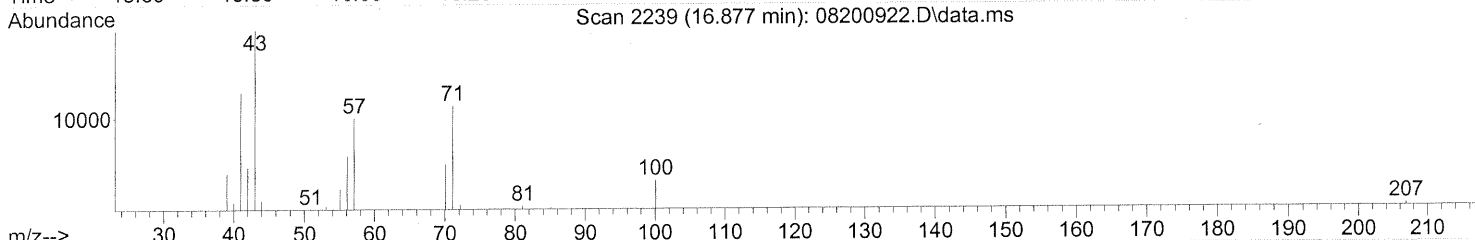
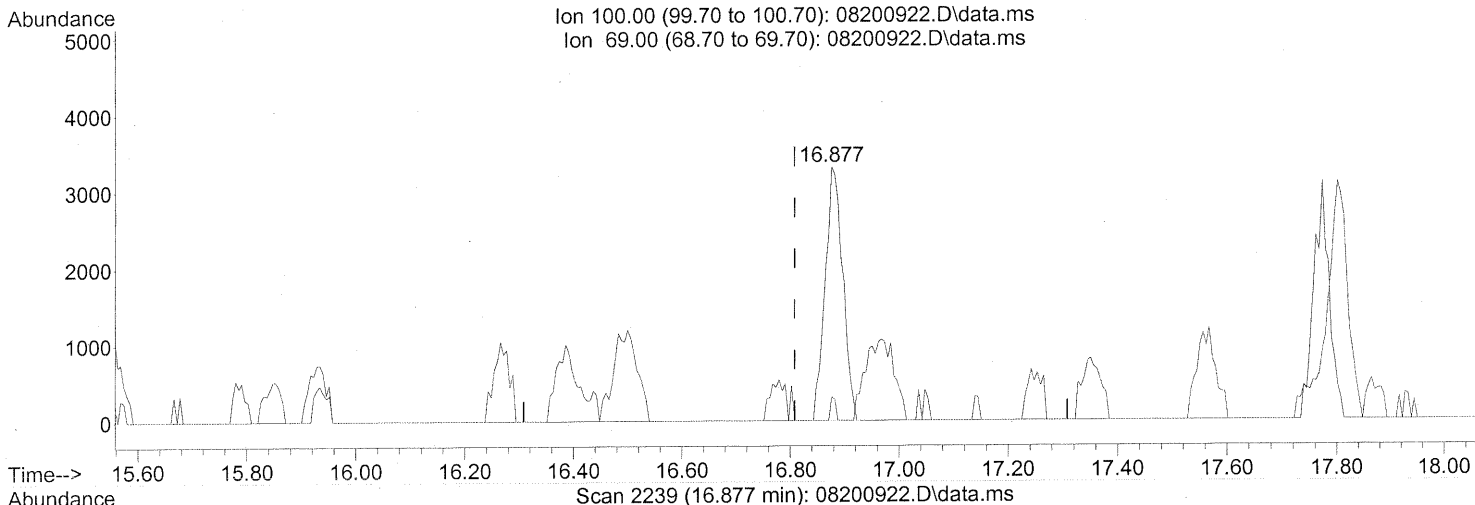
response 39548

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	61.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.877min (+0.069) 1.32ng

response 7487

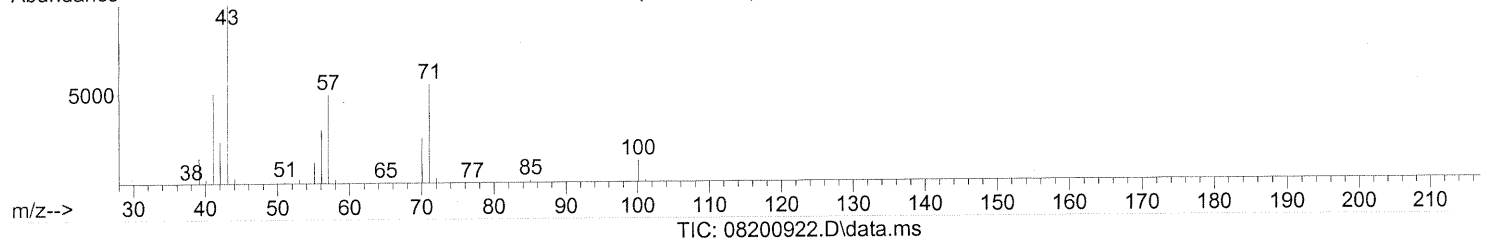
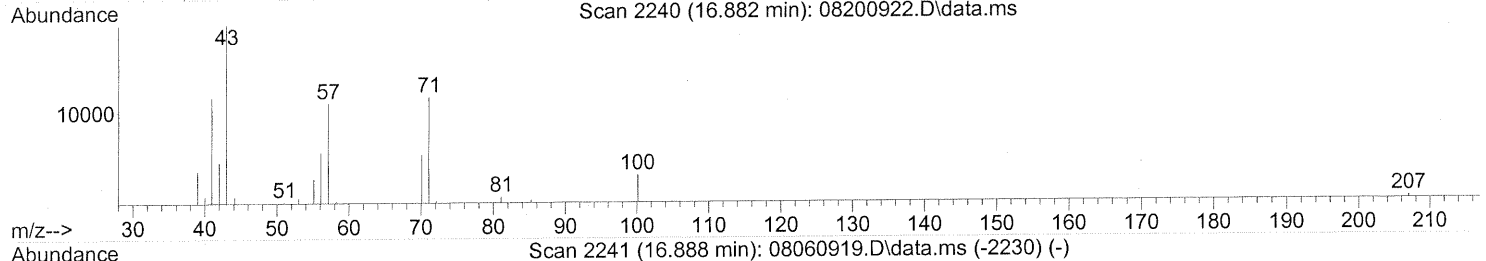
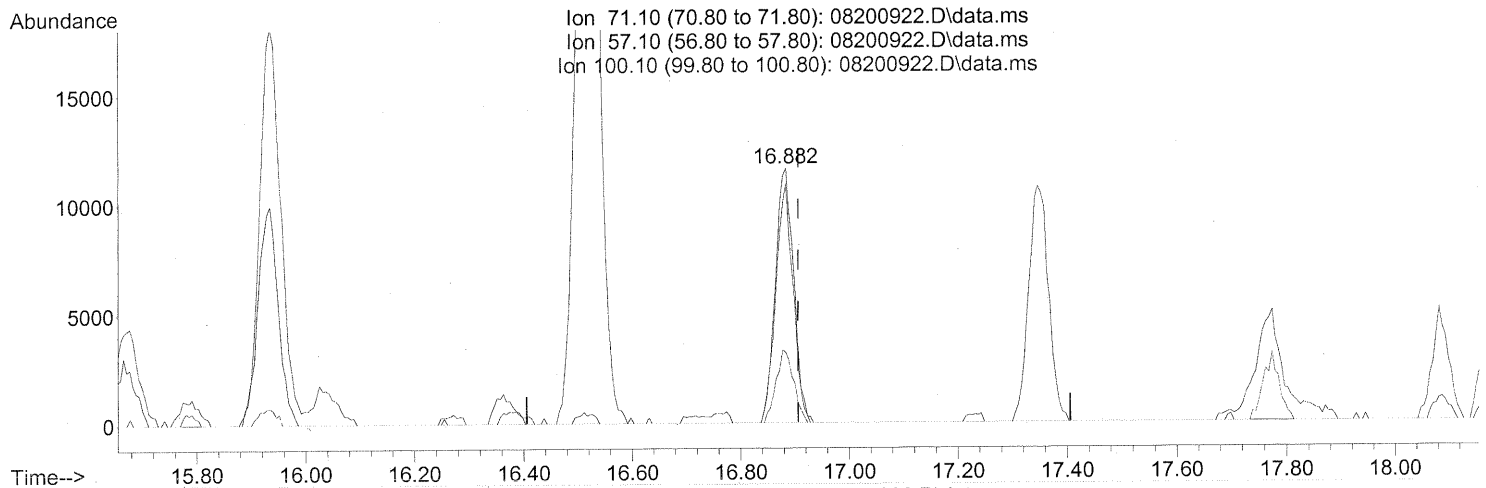
Ion	Exp%	Act%
100.00	100	100
69.00	294.80	2.67#
0.00	0.00	0.00
0.00	0.00	0.00

JP
8/22/09 *8/26/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.882min (-0.023) 1.64ng

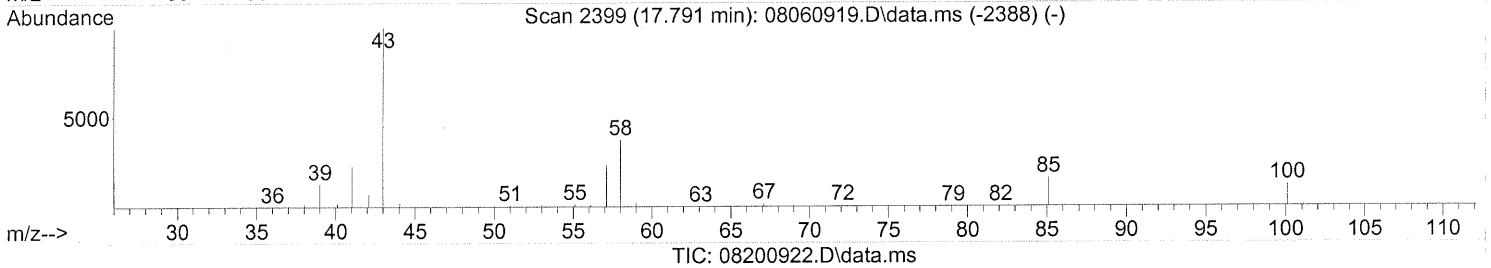
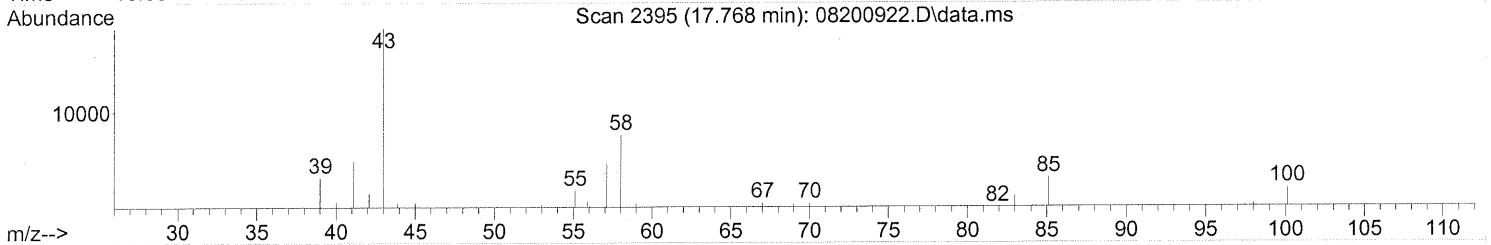
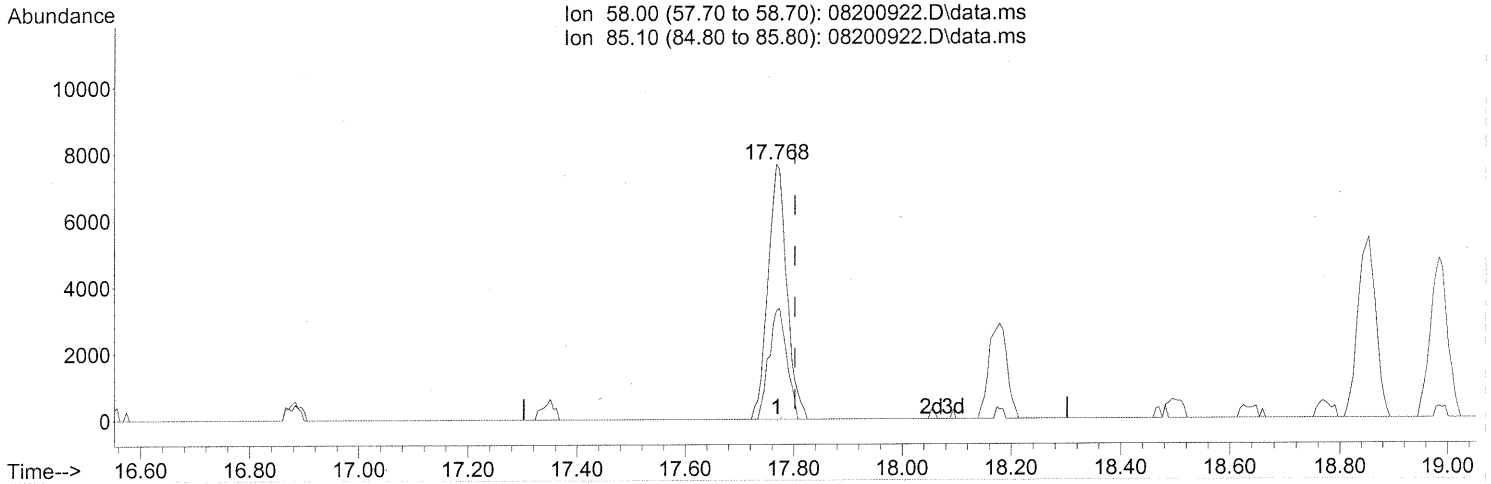
response 27204

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	88.45
100.10	26.40	27.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (-0.034) 1.25ng

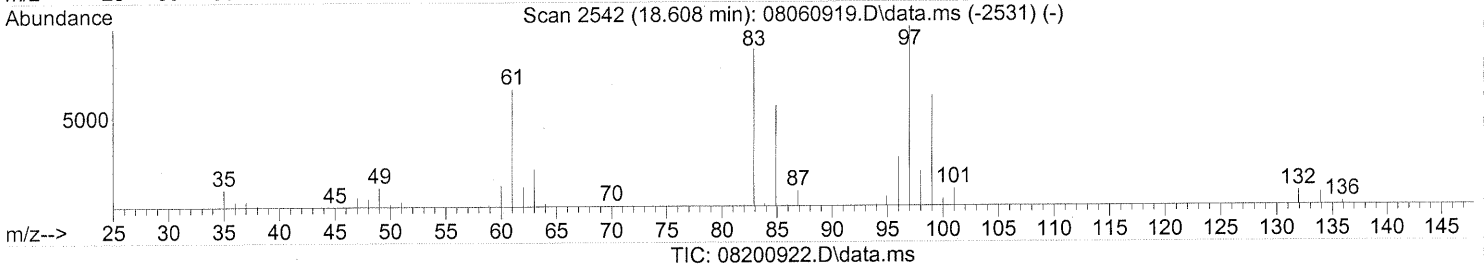
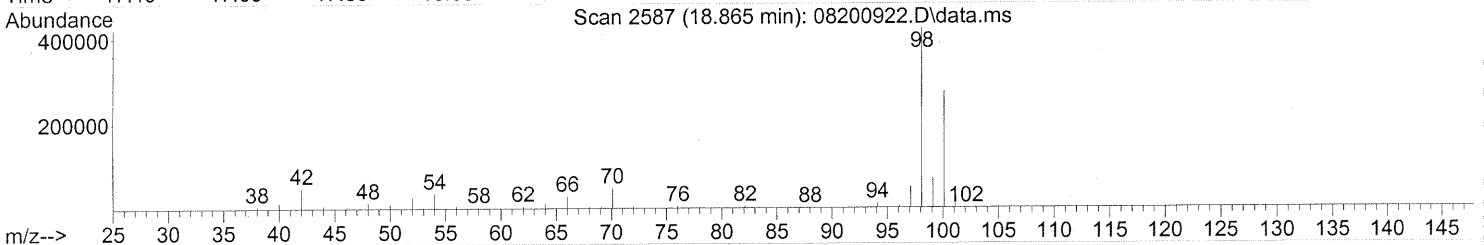
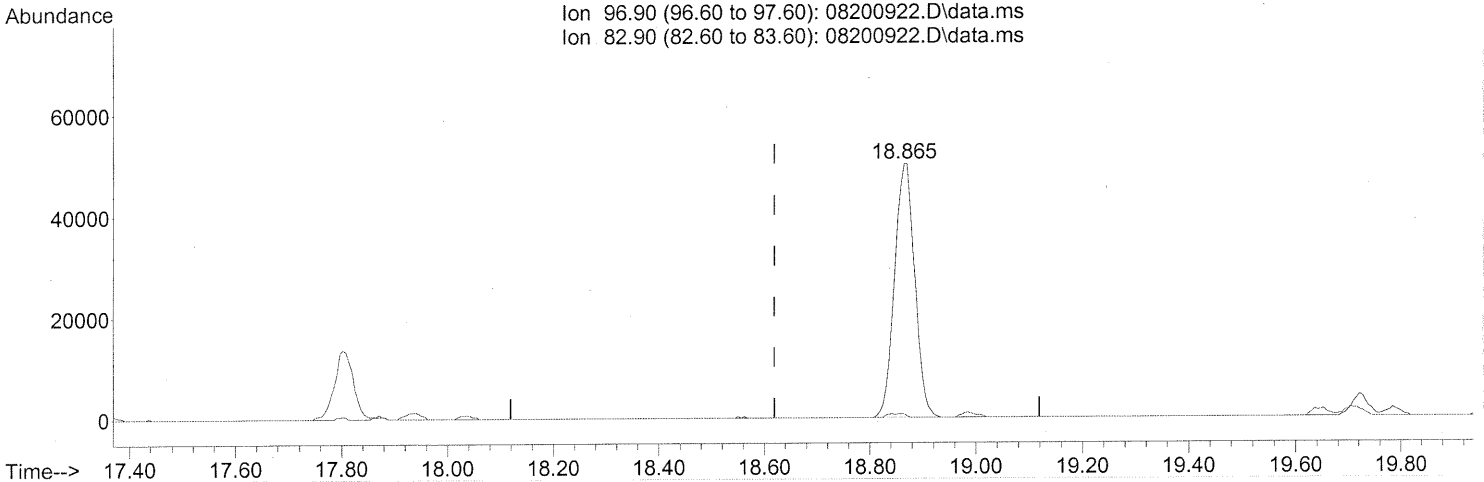
response 18463

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	41.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.75ng

response 132058

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.17#
0.00	0.00	0.00
0.00	0.00	0.00

TP

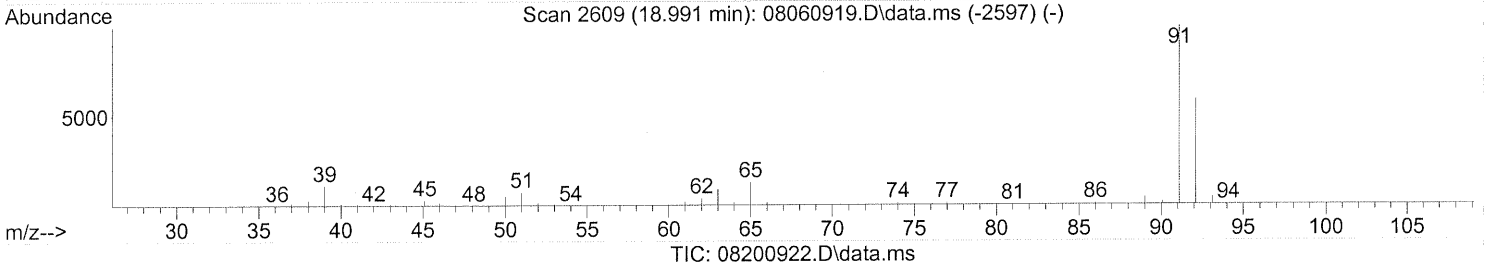
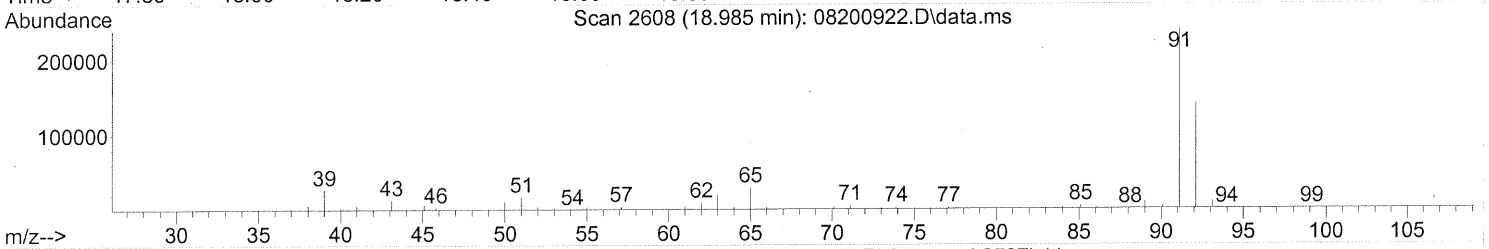
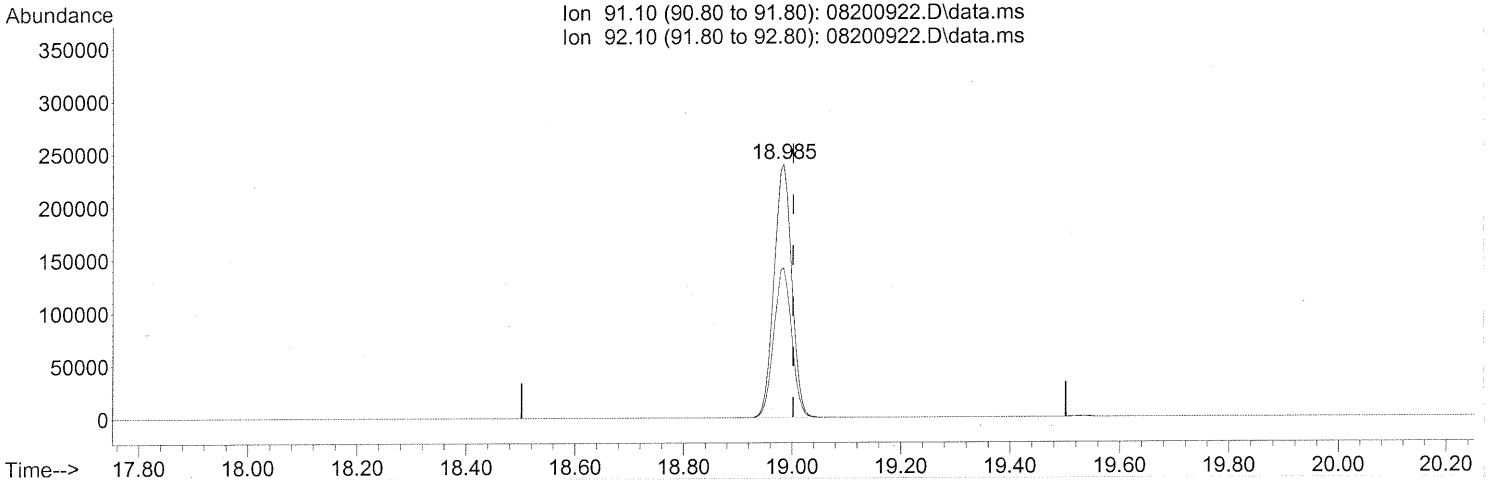
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



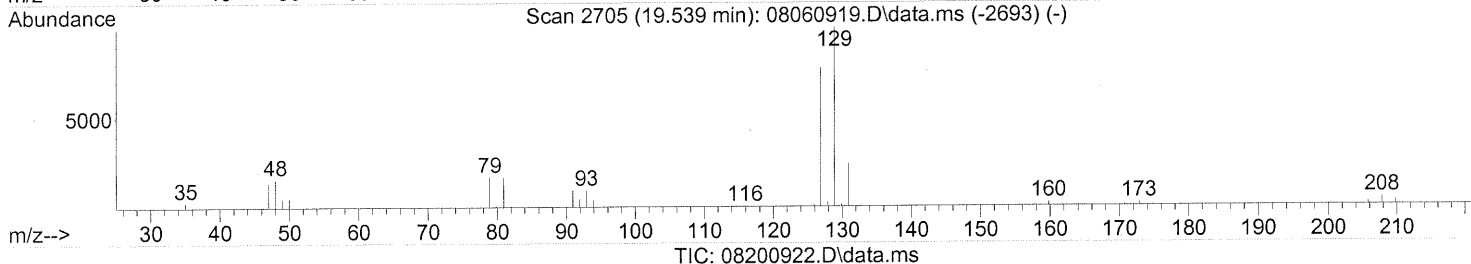
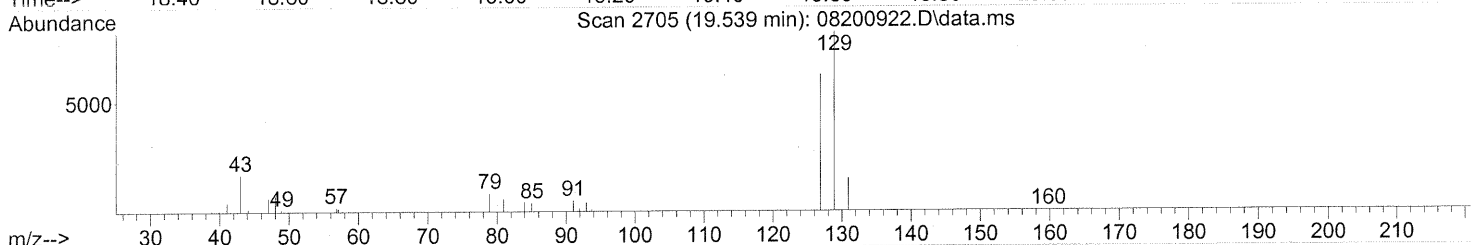
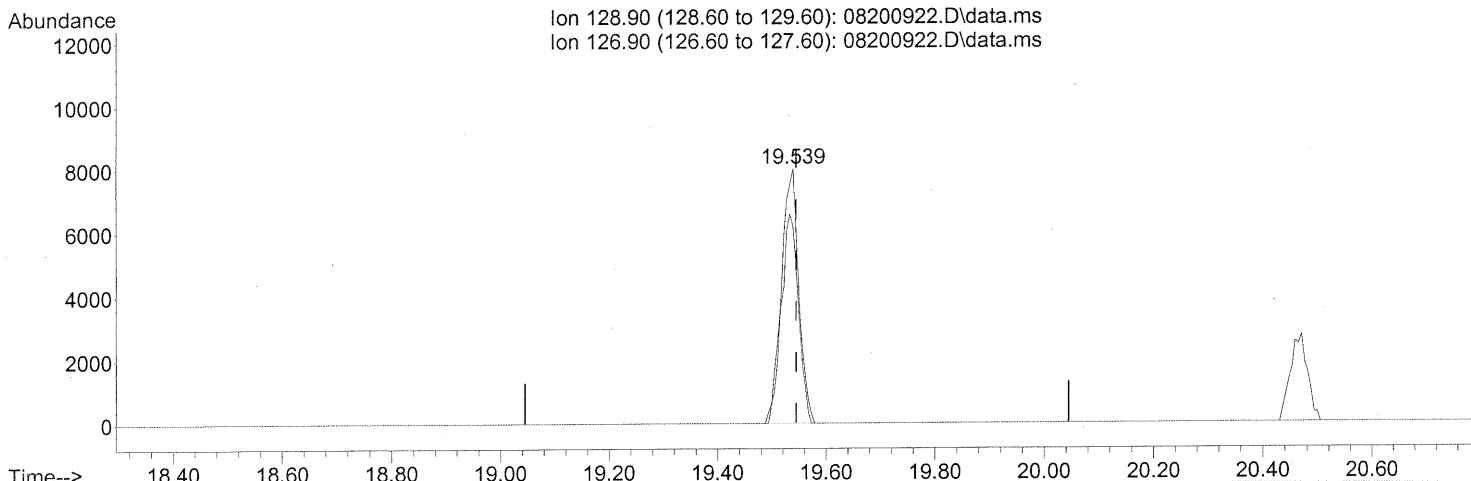
(58) Toluene (T)
 18.985min (-0.017) 9.50ng
 response 545603

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
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Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.539min (-0.006) 1.31ng

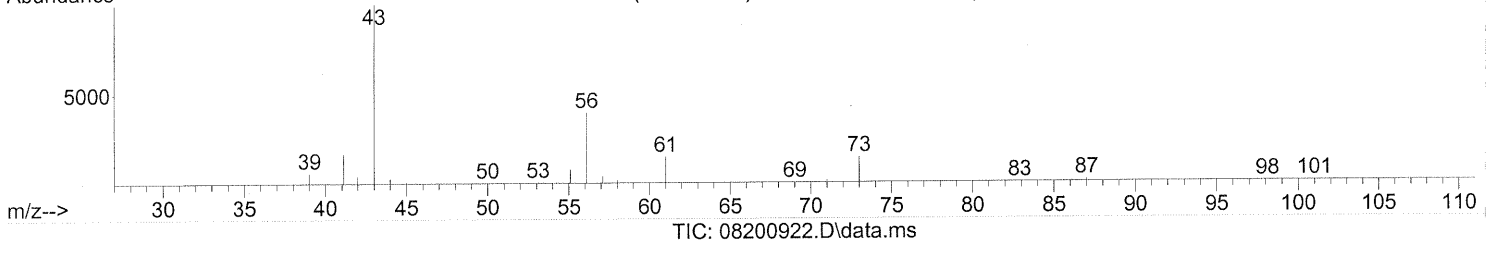
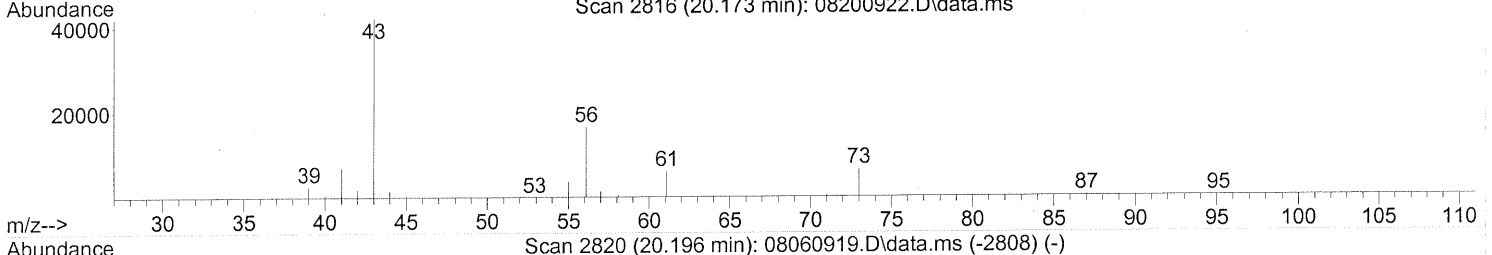
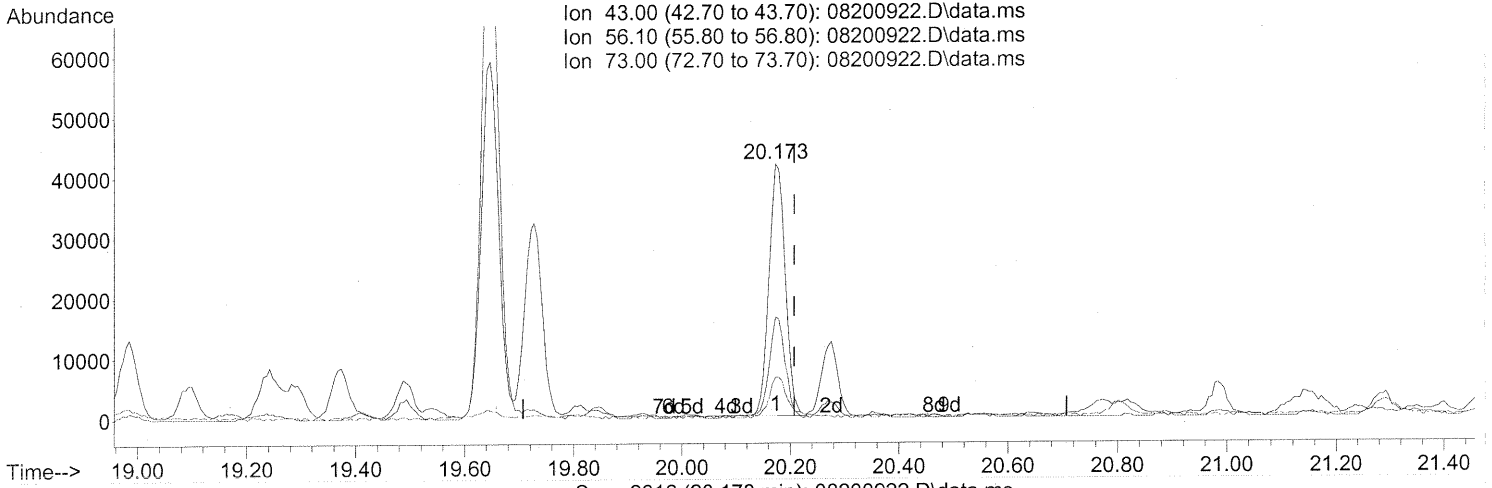
response 17858

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	80.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
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 Operator : WA
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Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.173min (-0.034) 1.94ng

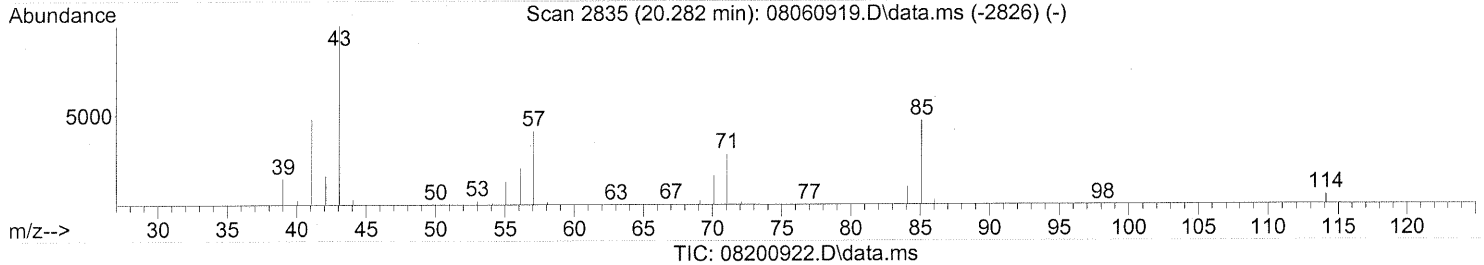
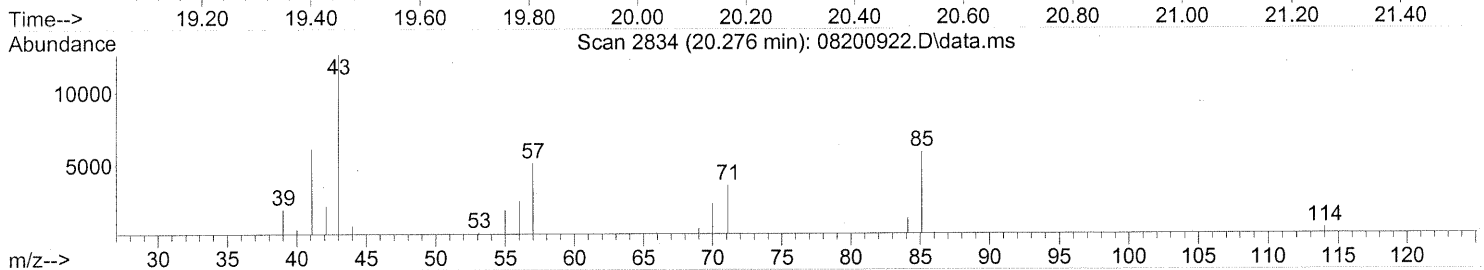
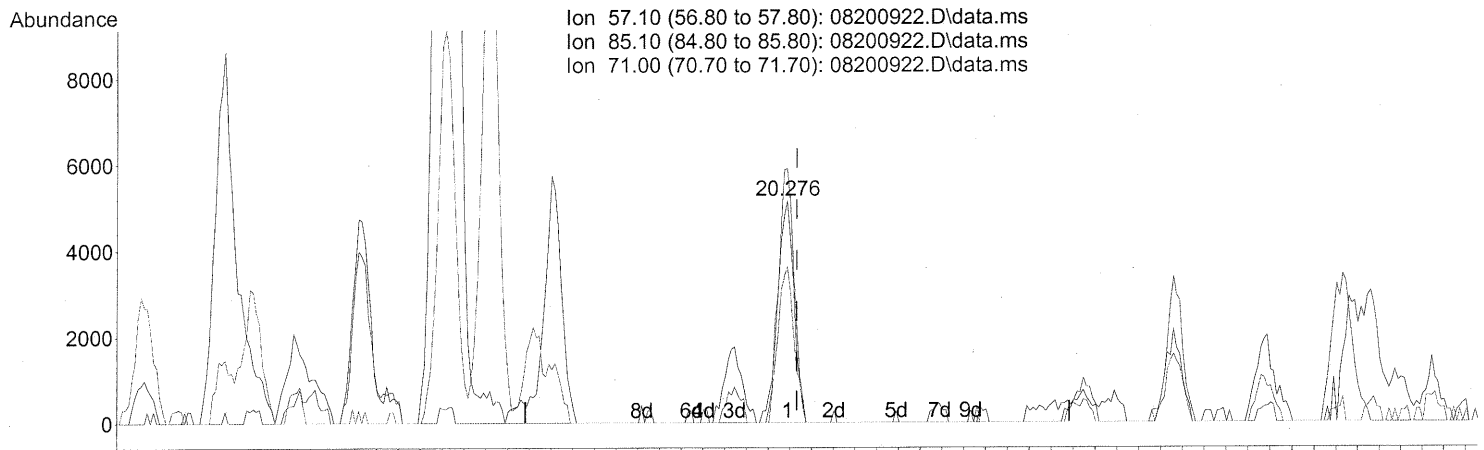
response 87320

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.03
73.00	14.80	19.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



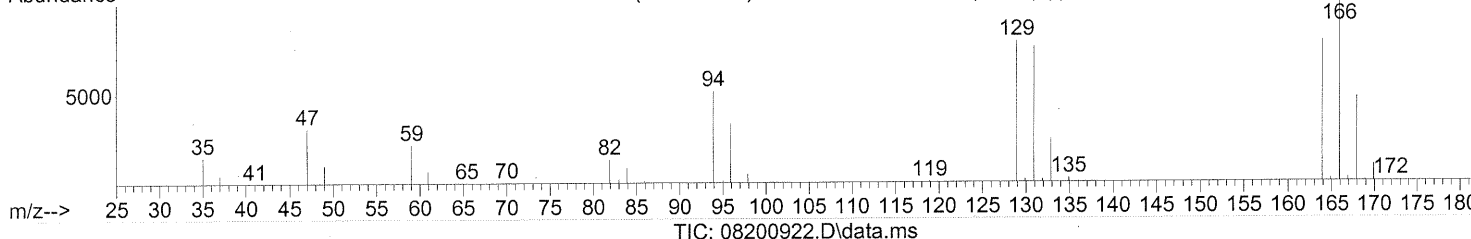
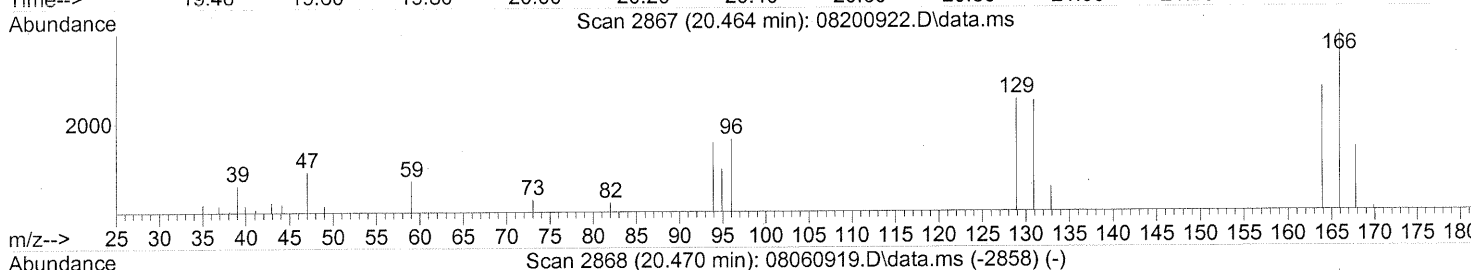
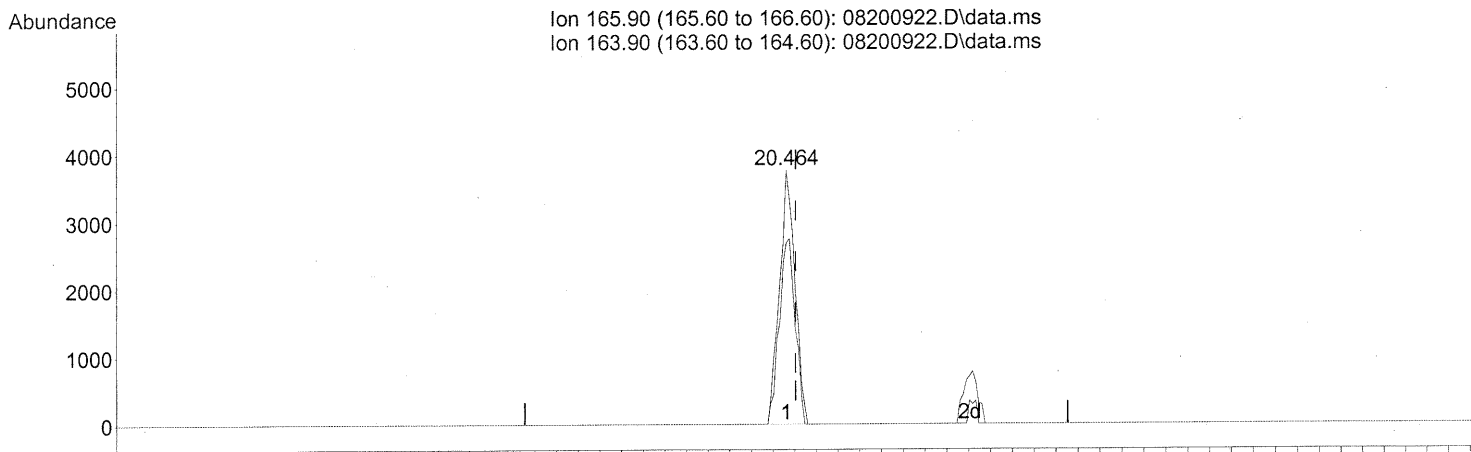
(63) n-Octane (T)
 20.276min (-0.017) 0.78ng
 response 10821

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	112.05
71.00	68.10	68.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
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Quant Time: Aug 21 03:58:01 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 0.56ng

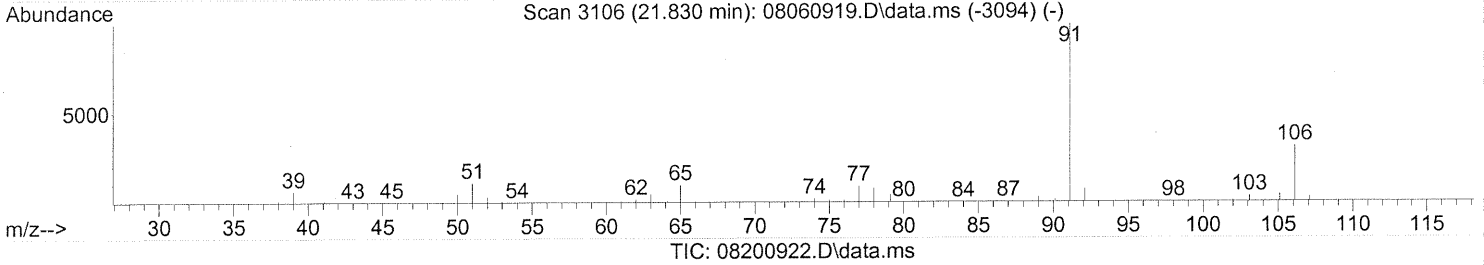
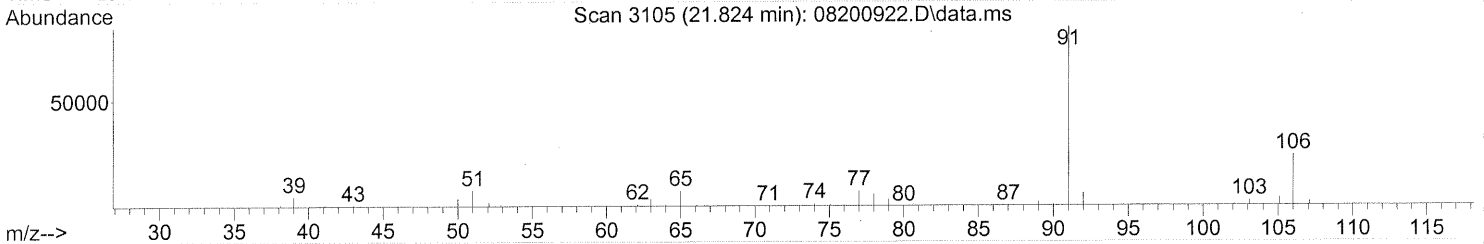
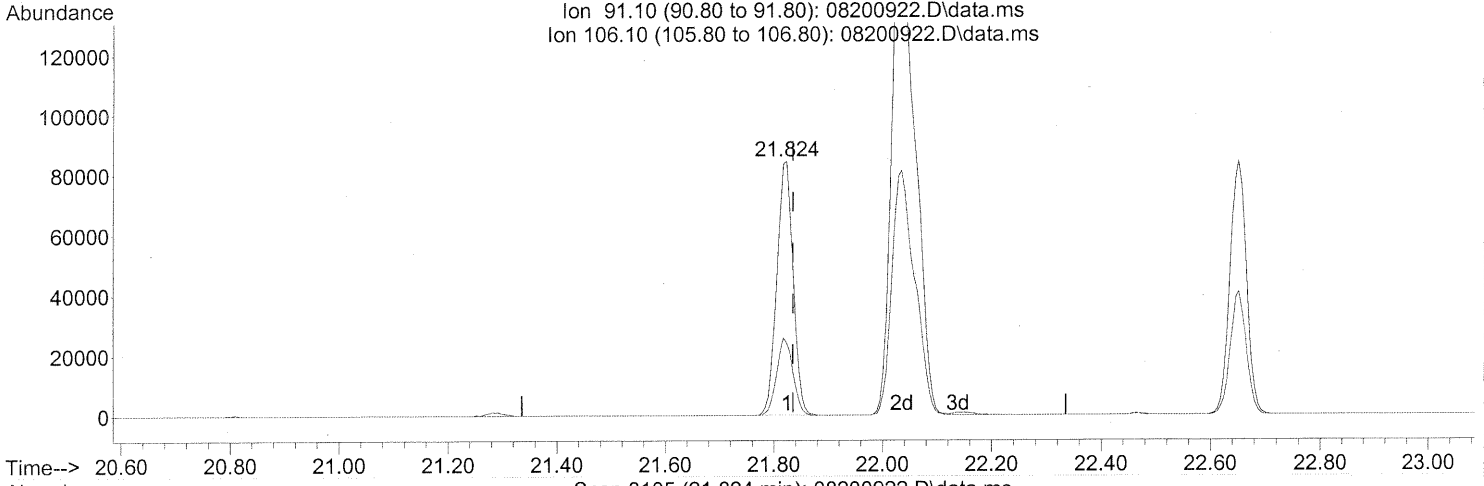
response 7504

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	74.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.824min (-0.011) 2.67ng

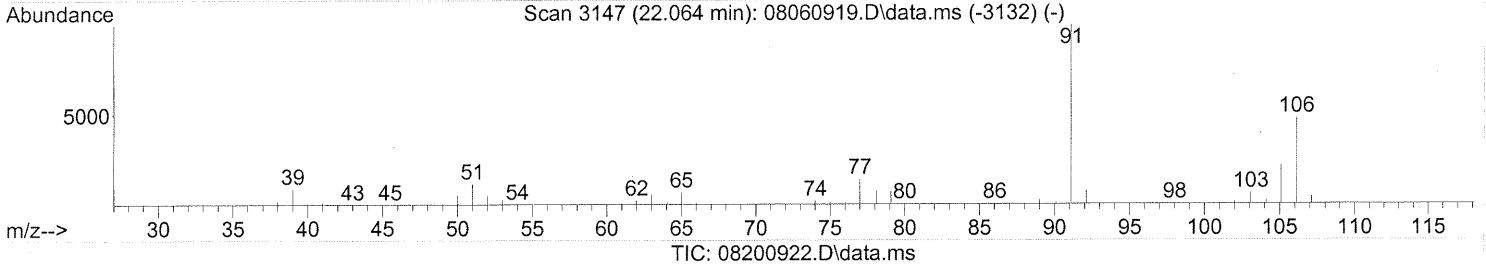
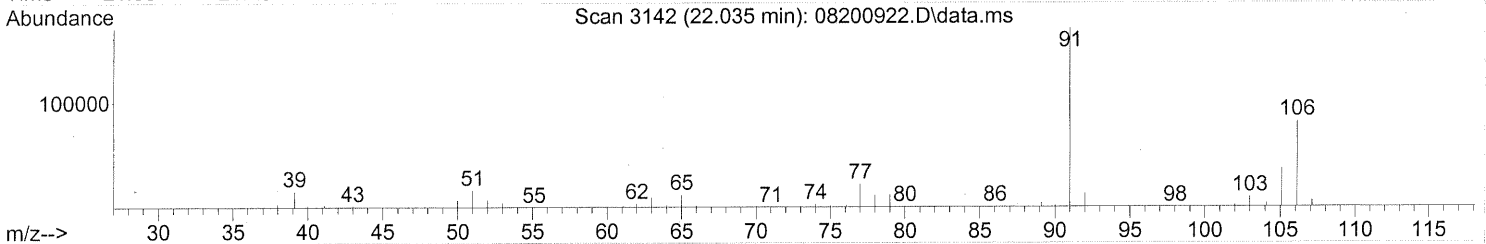
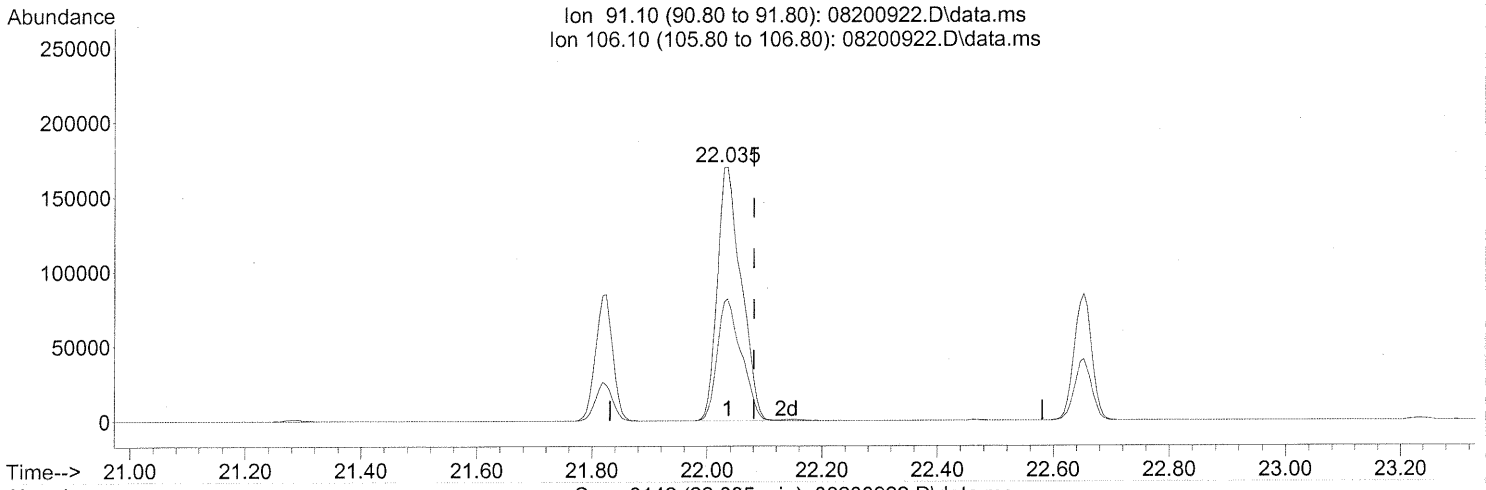
response 175178

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 9.22ng

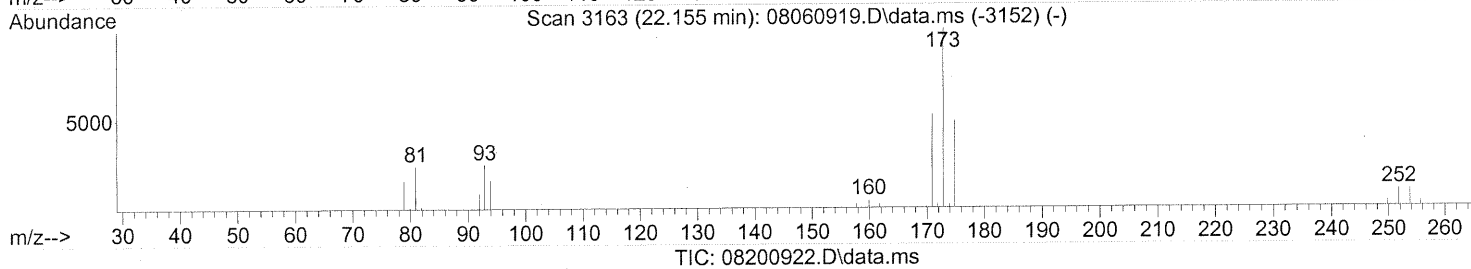
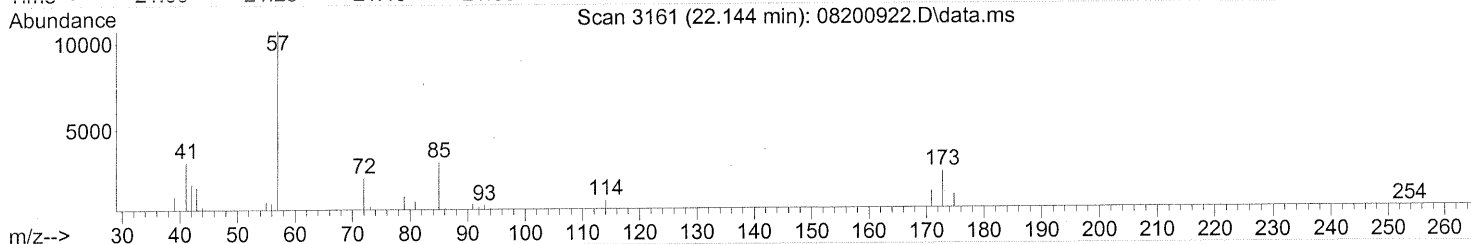
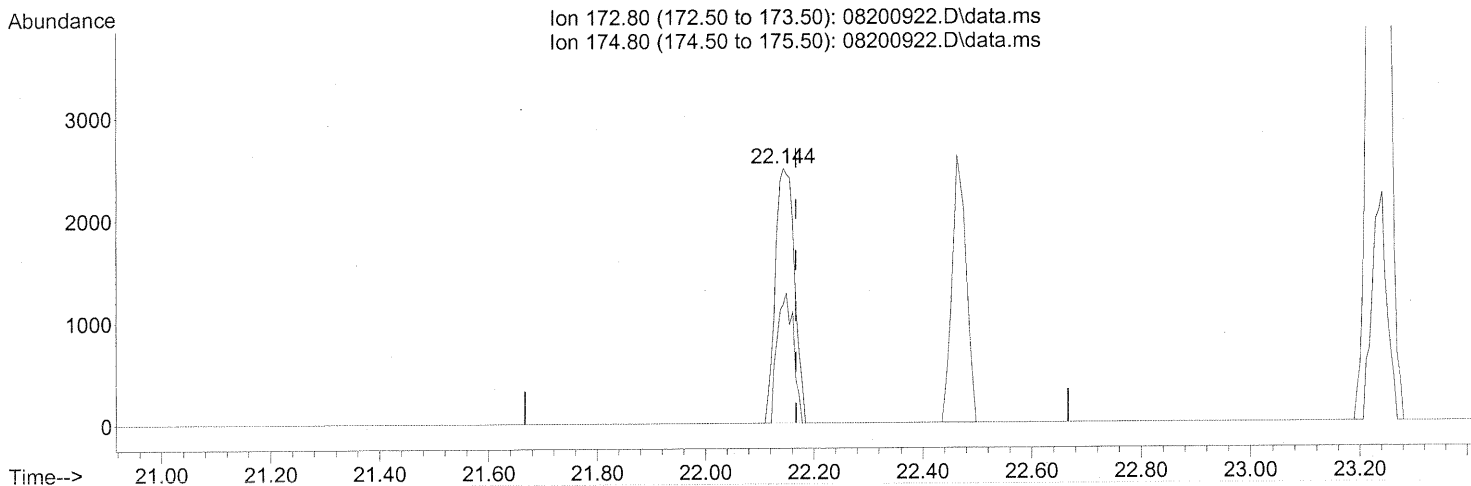
response 489566

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(68) Bromoform (T)

22.144min (-0.023) 0.54ng

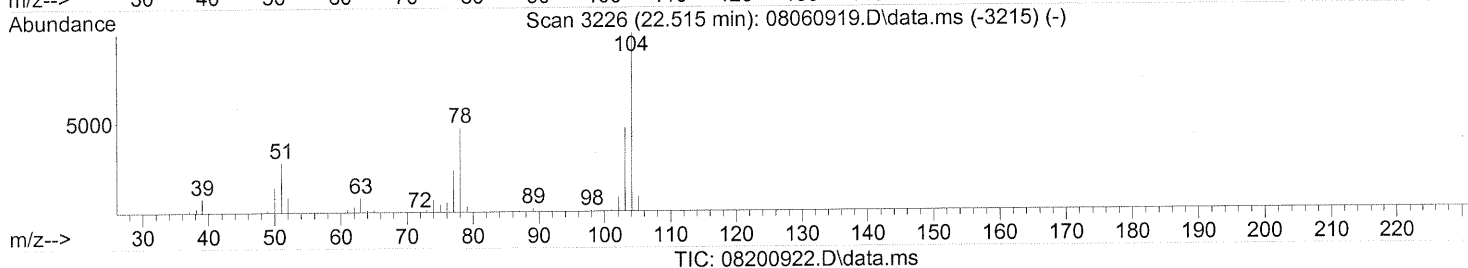
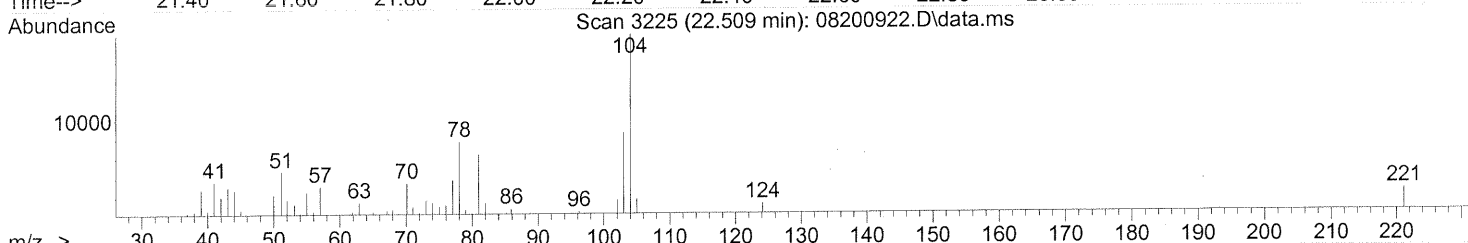
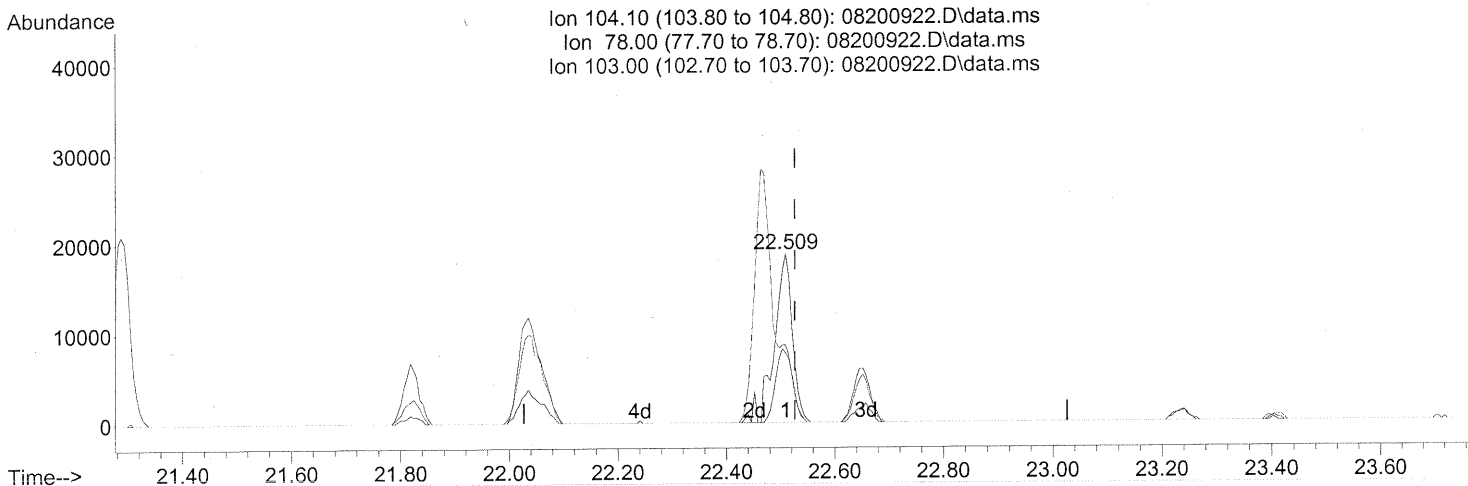
response 6069

Ion	Exp%	Act%
172.80	100	100
174.80	47.90	43.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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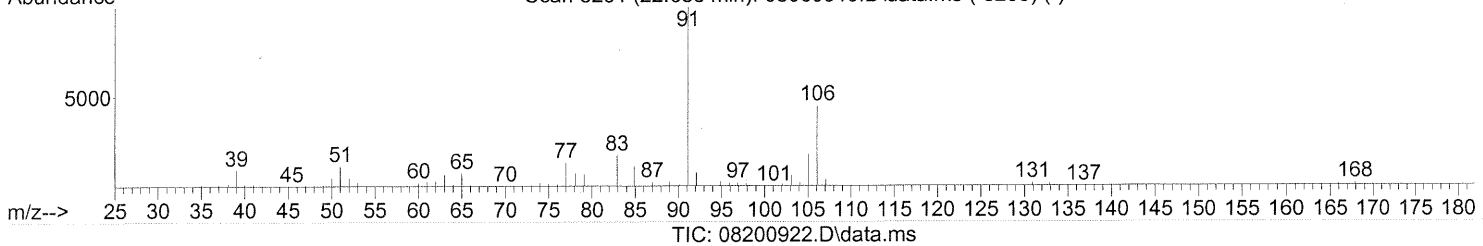
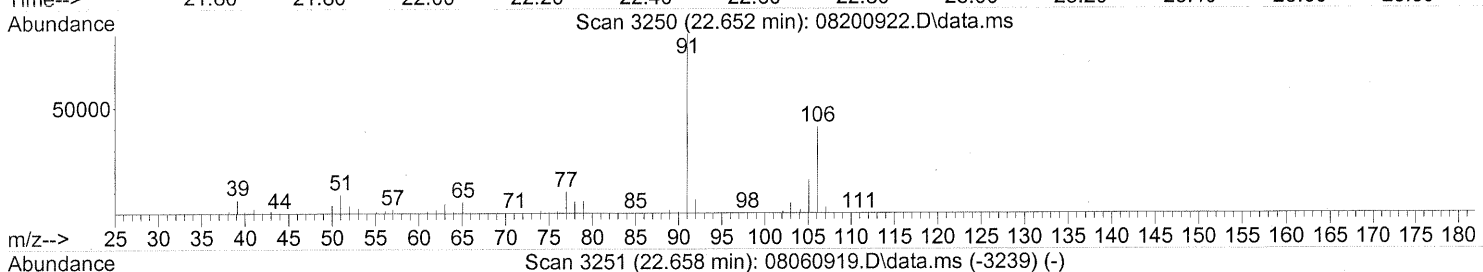
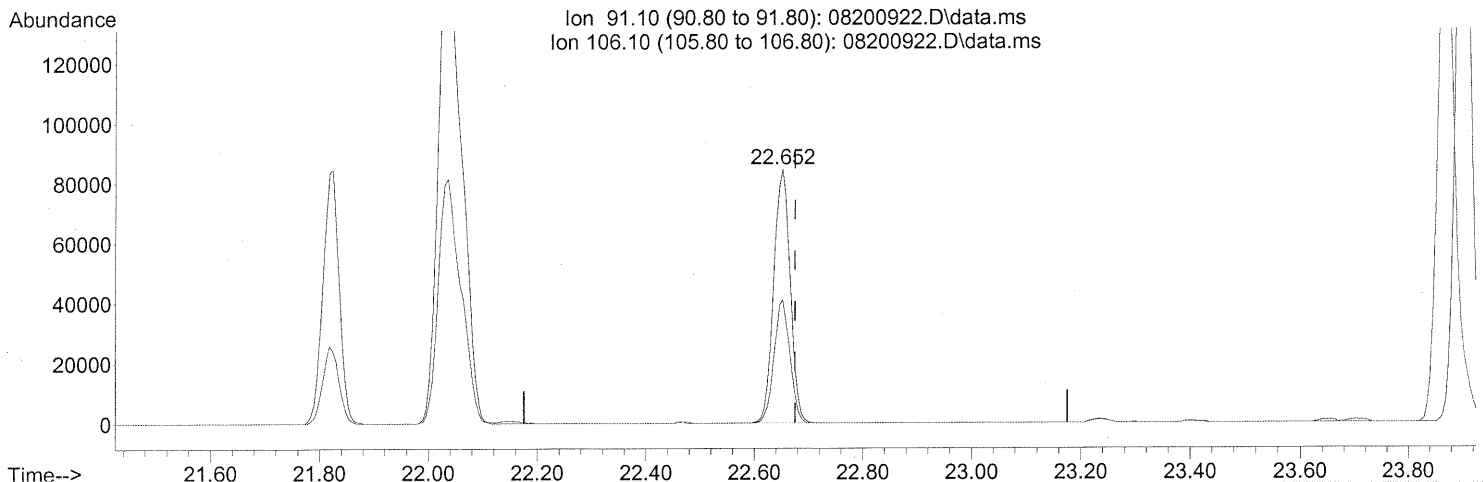
(69) Styrene (T)
 22.509min (-0.017) 1.09ng
 response 41713

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	42.06
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
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 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.35ng

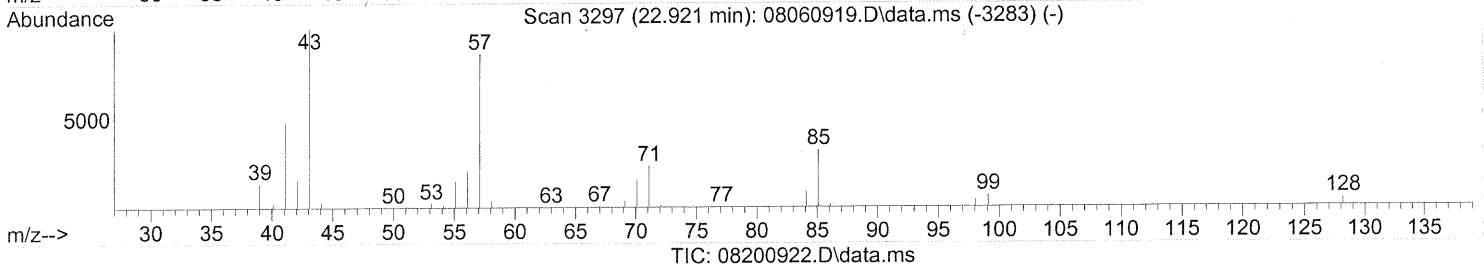
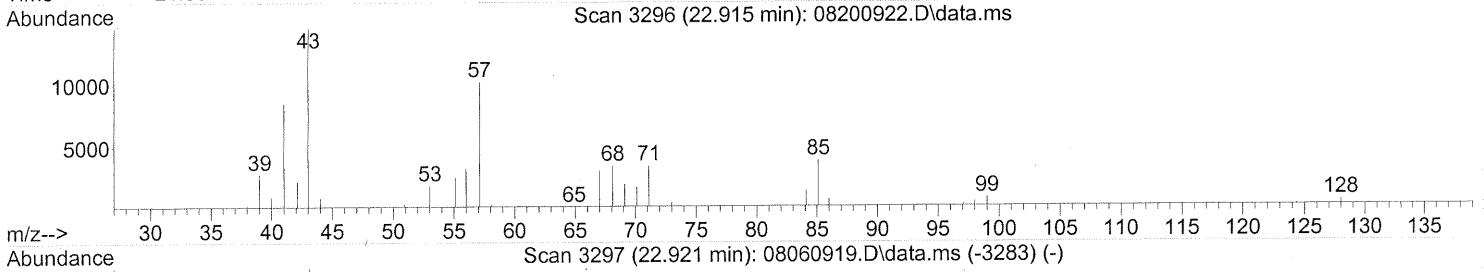
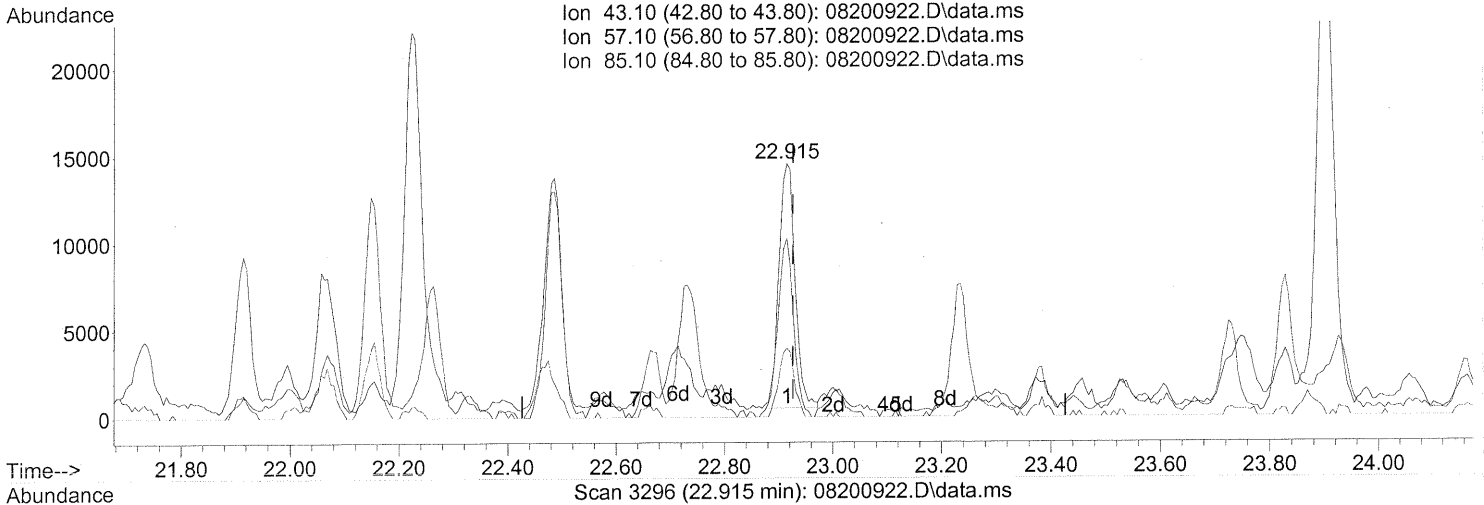
response 178457

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	46.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(71) n-Nonane (T)

22.915min (-0.011) 0.83ng

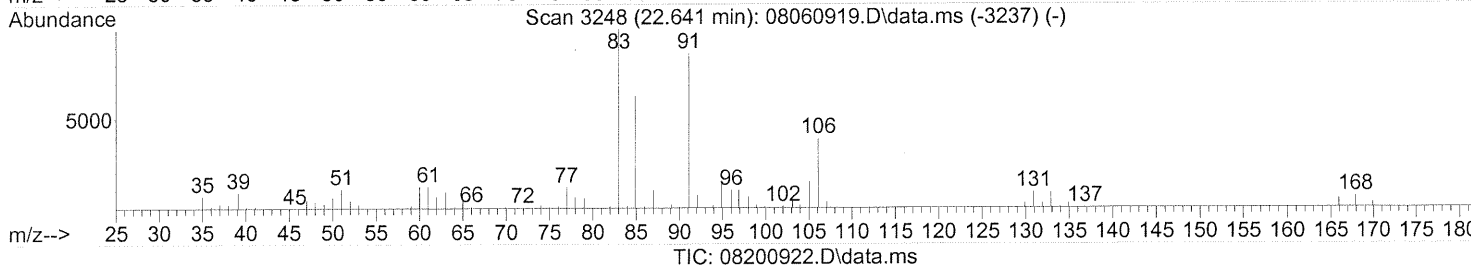
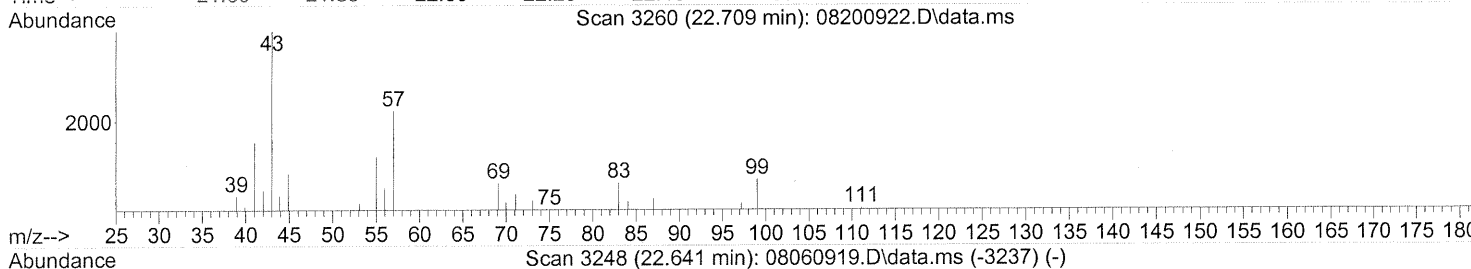
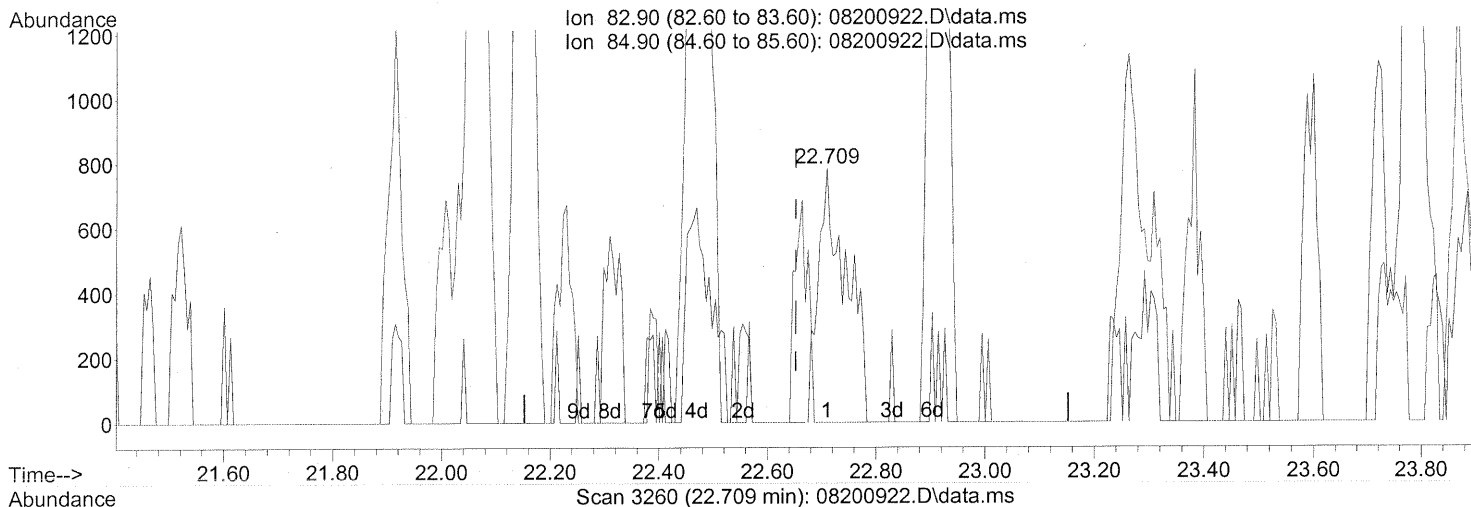
response 29328

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	70.51
85.10	30.40	26.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.709min (+0.057) 0.12ng

response 2851

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

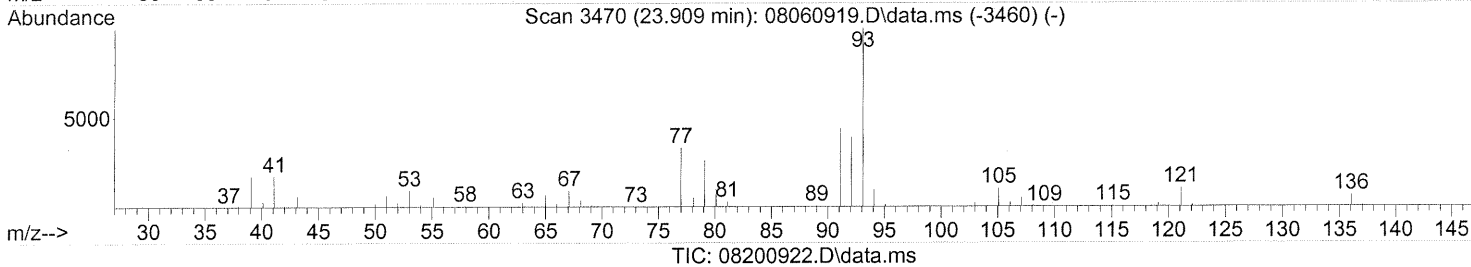
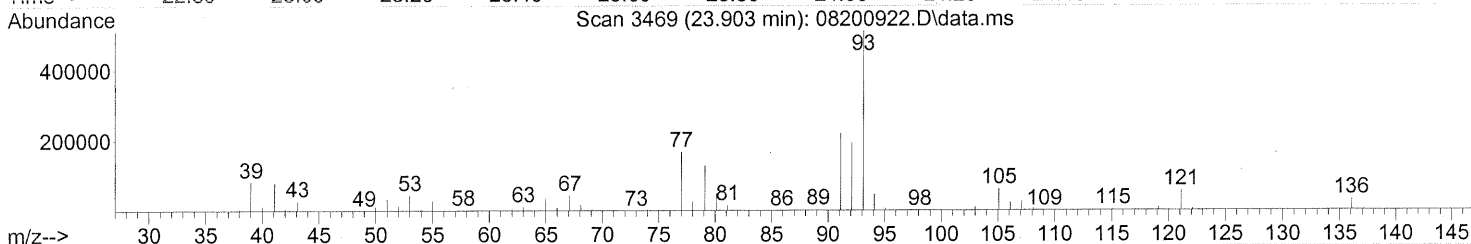
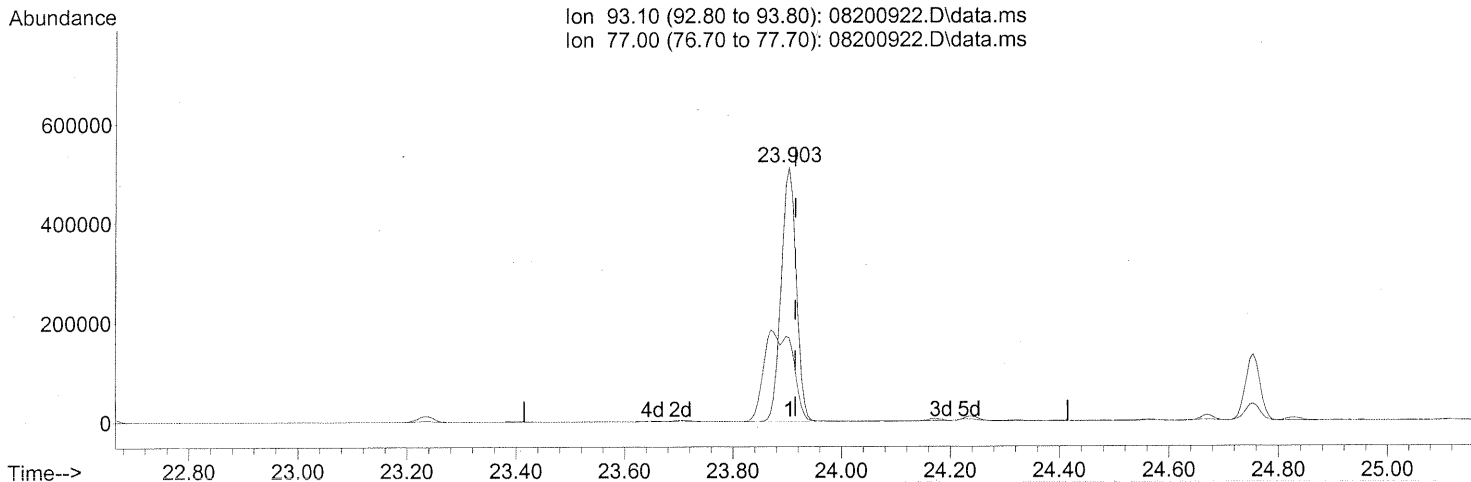
WA 8/22/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
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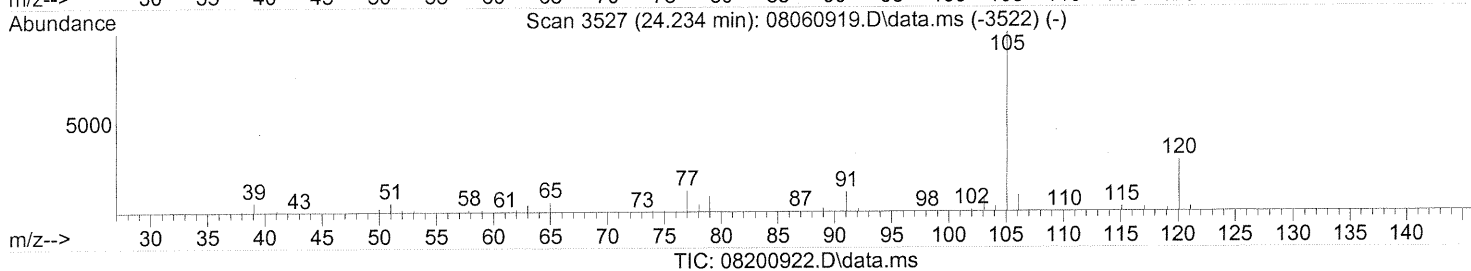
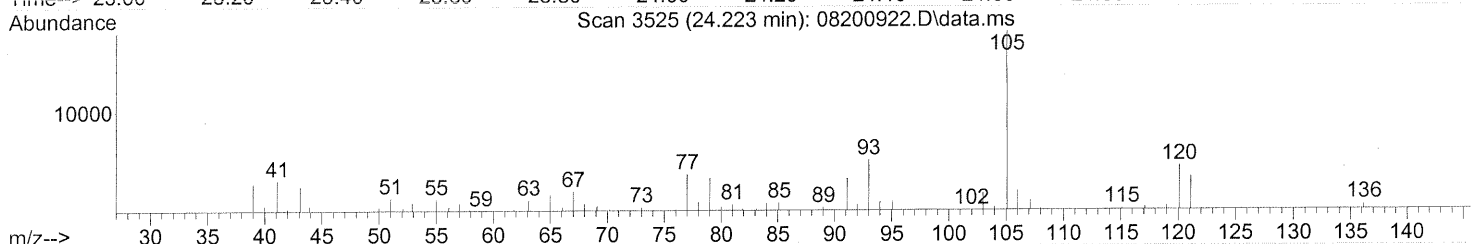
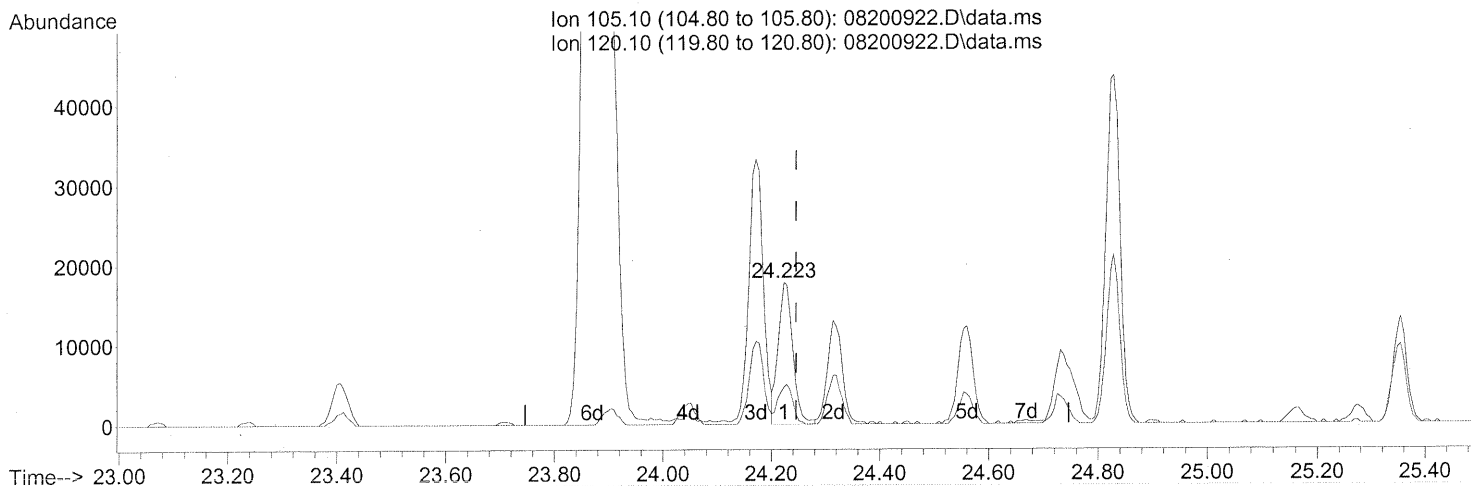
(75) alpha-Pinene (T)
 23.903min (-0.011) 28.61ng
 response 986655

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(78) 4-Ethyltoluene (T)

24.223min (-0.023) 0.53ng

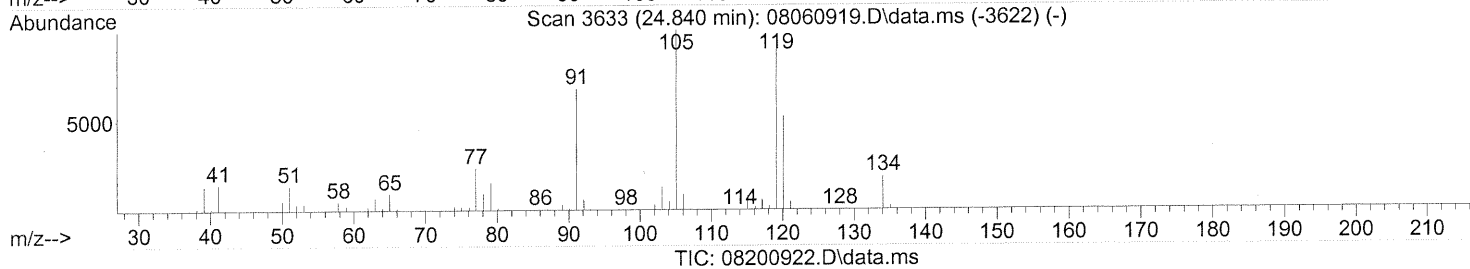
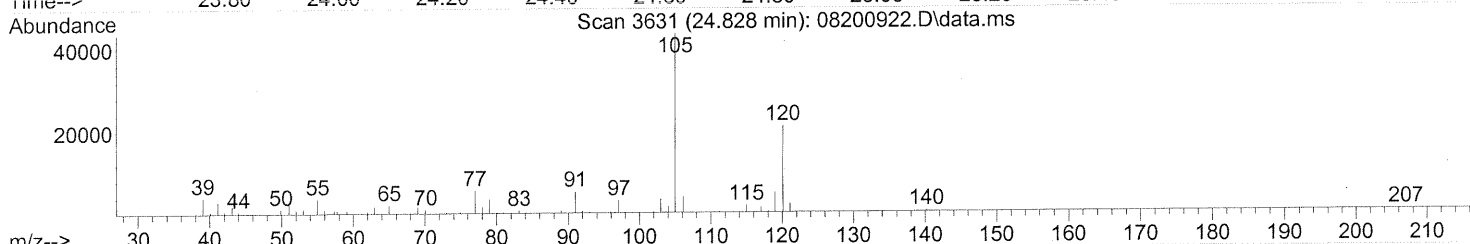
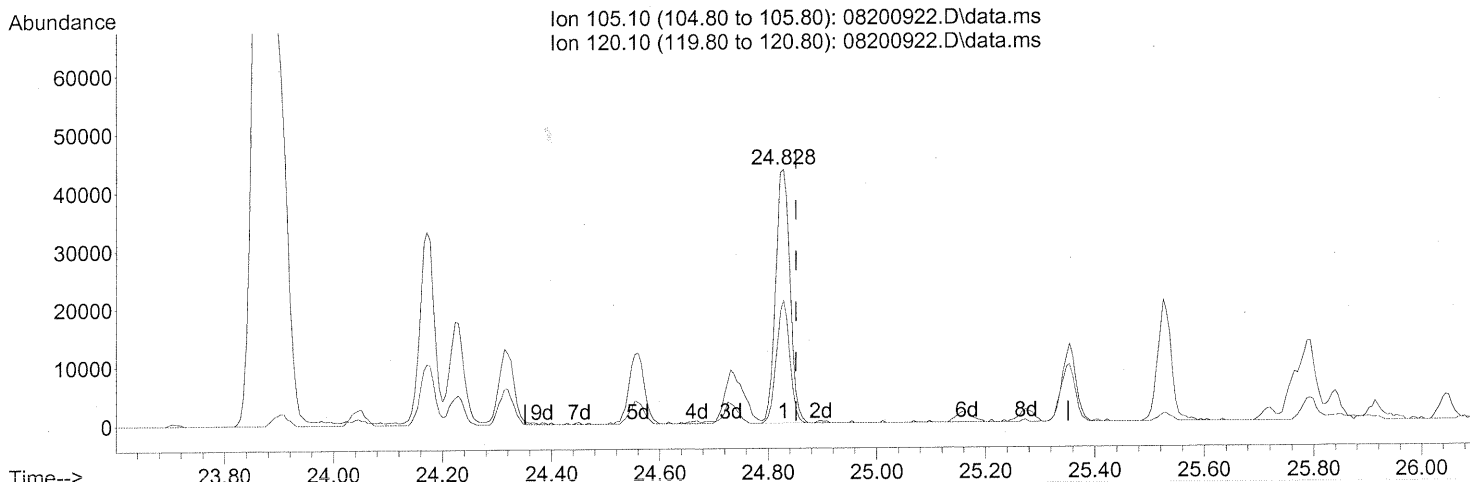
response 33081

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 1.50ng

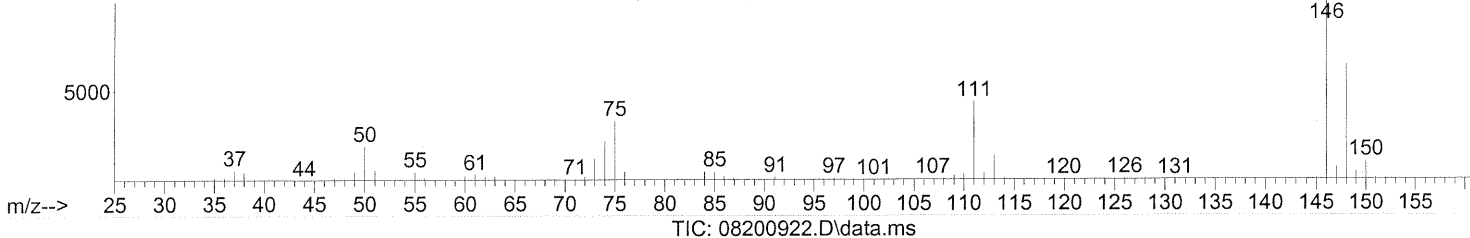
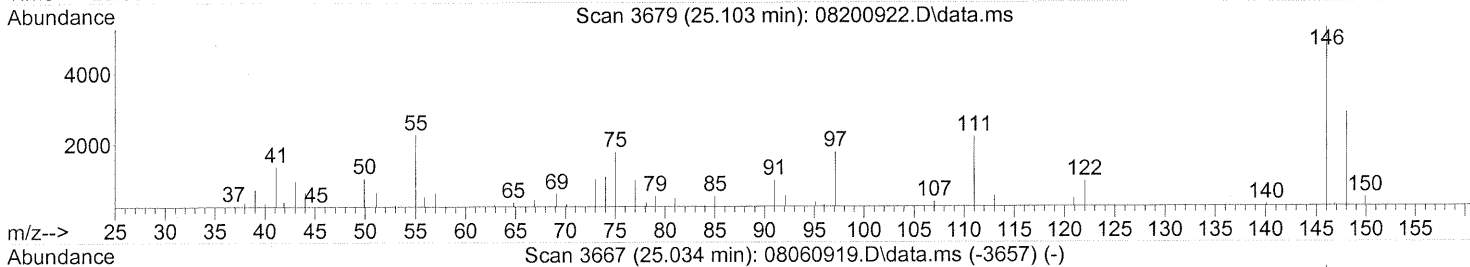
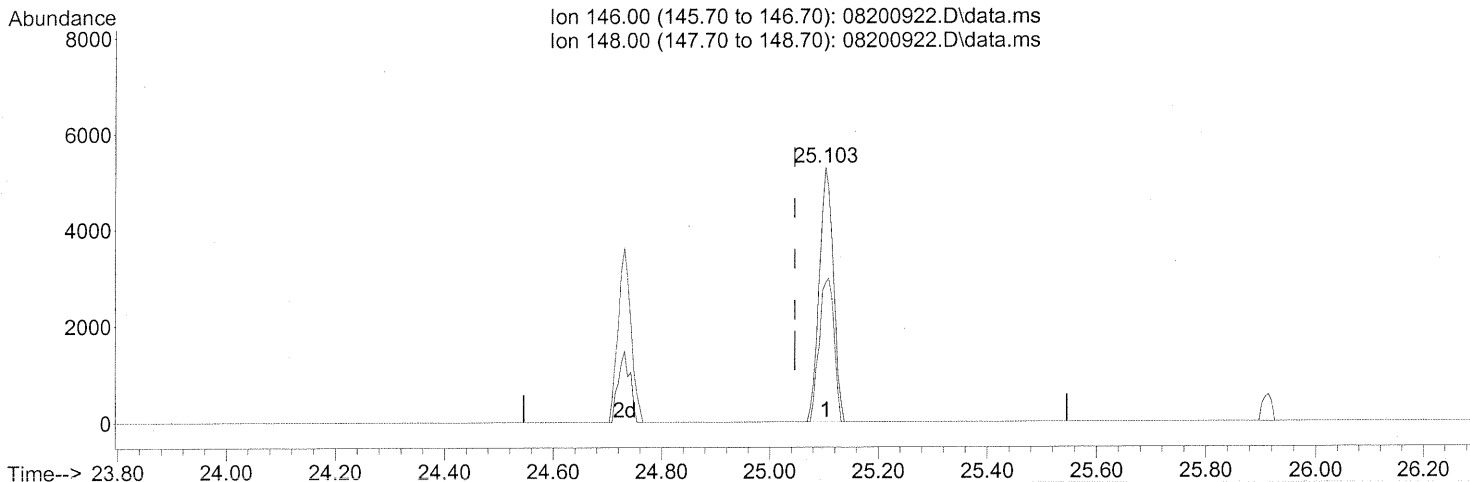
response 80222

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.35ng

response 9511

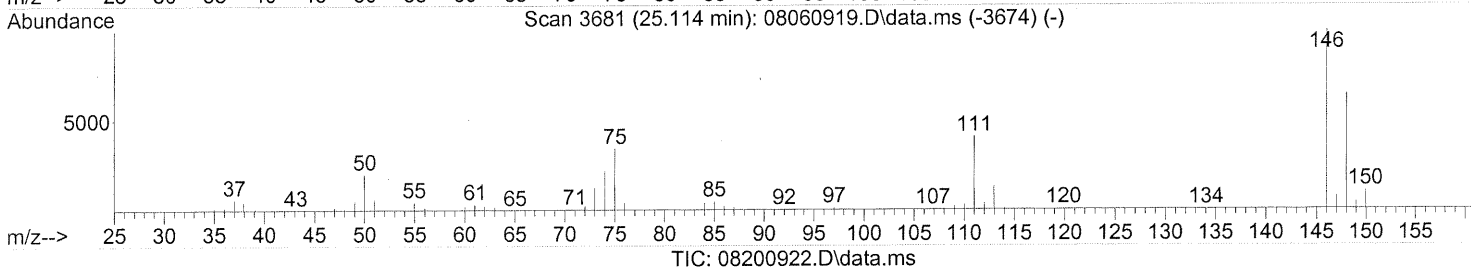
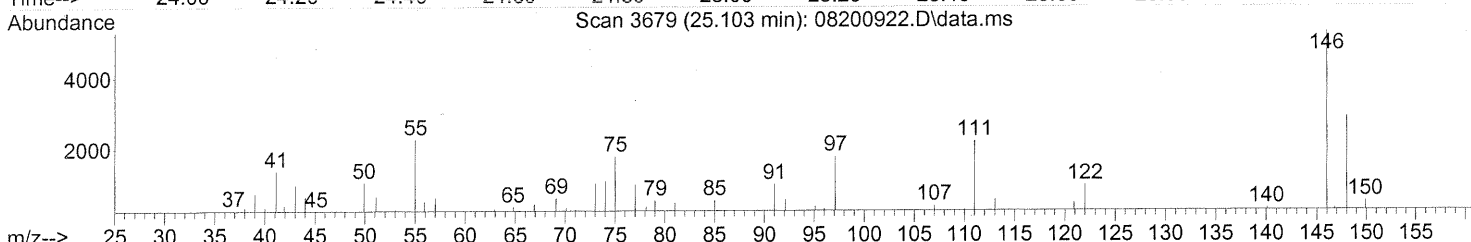
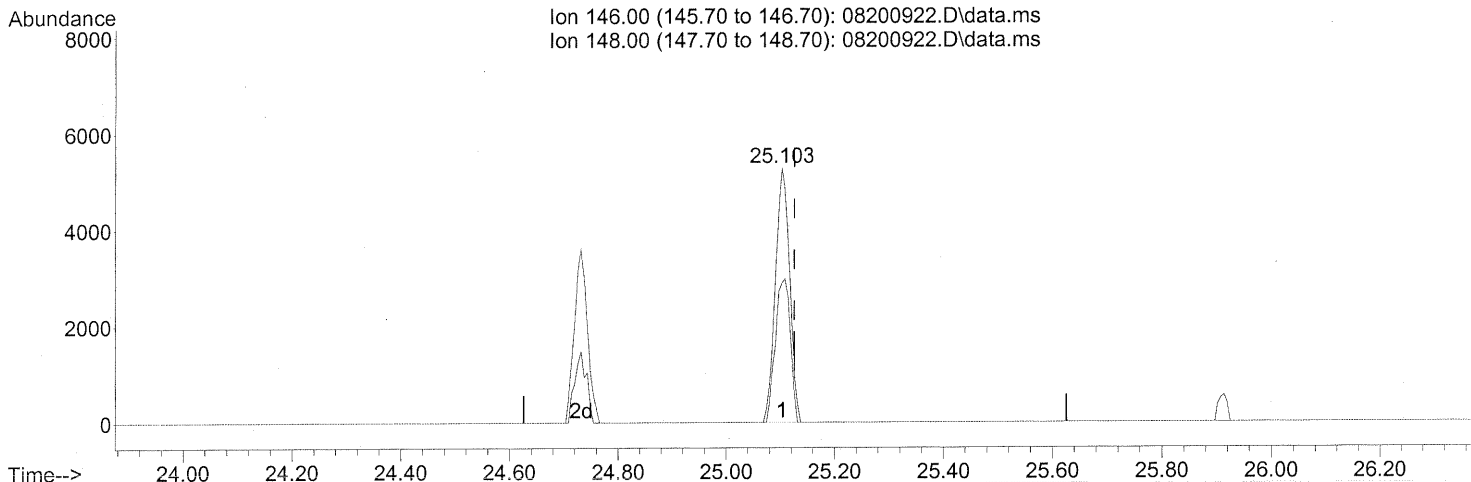
Ion	Exp%	Act%
146.00	100	100
148.00	61.60	59.16
0.00	0.00	0.00
0.00	0.00	0.00

Handwritten notes:
 TP
 8/22/09
 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.33ng

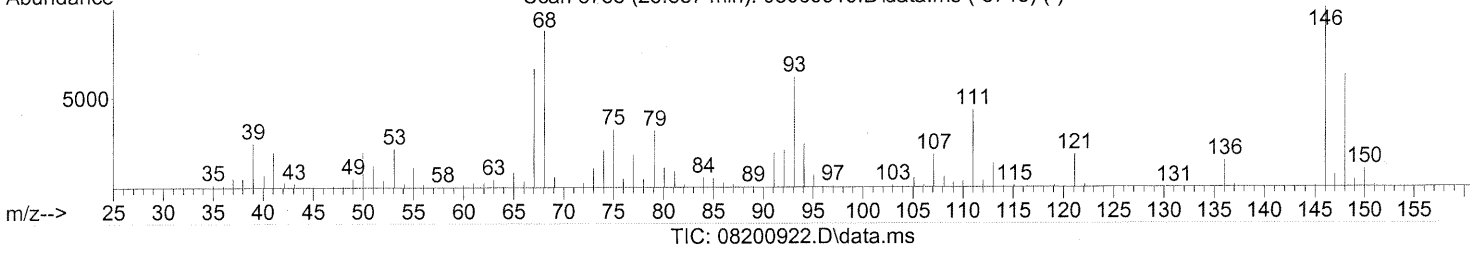
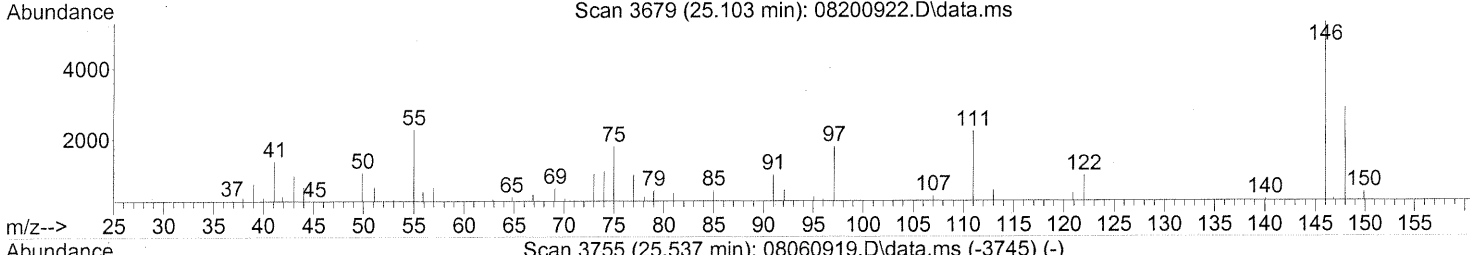
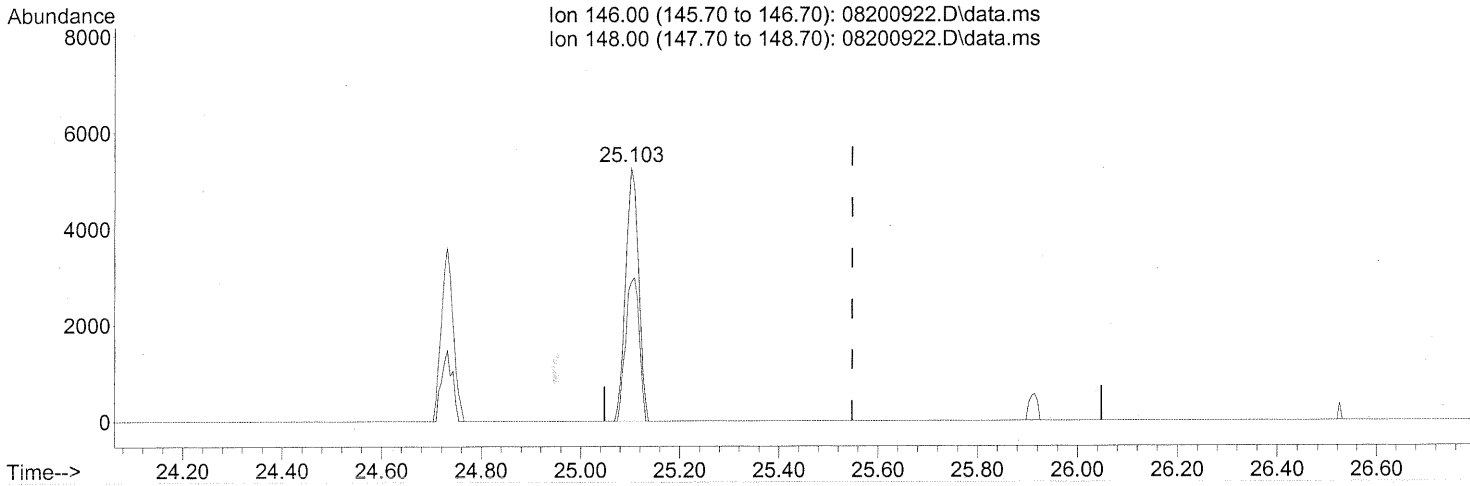
response 9511

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	59.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200922.D
 Acq On : 21 Aug 2009 00:41
 Operator : WA
 Sample : P0902805-006 (500mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.103min (-0.446) 0.37ng

response 9511

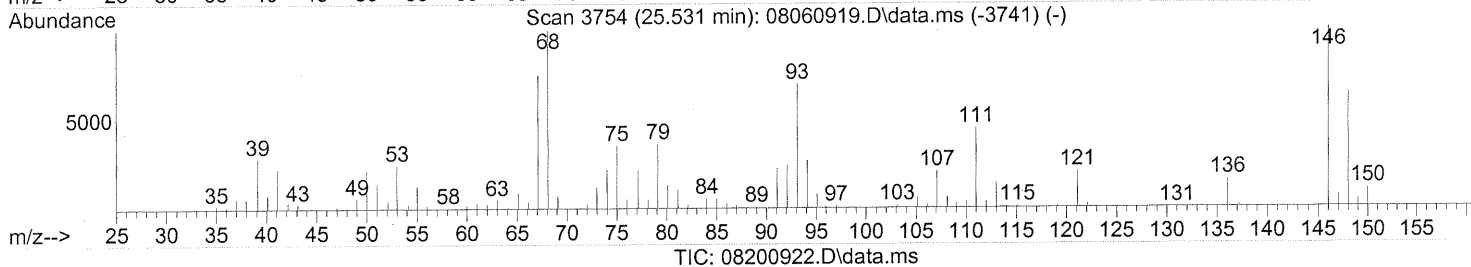
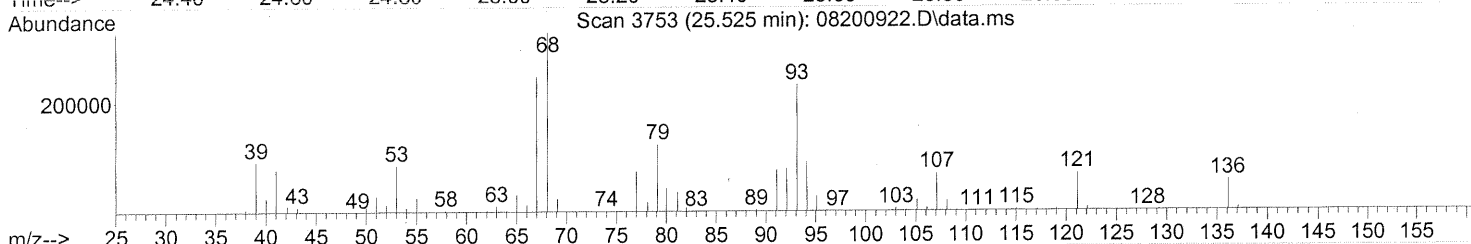
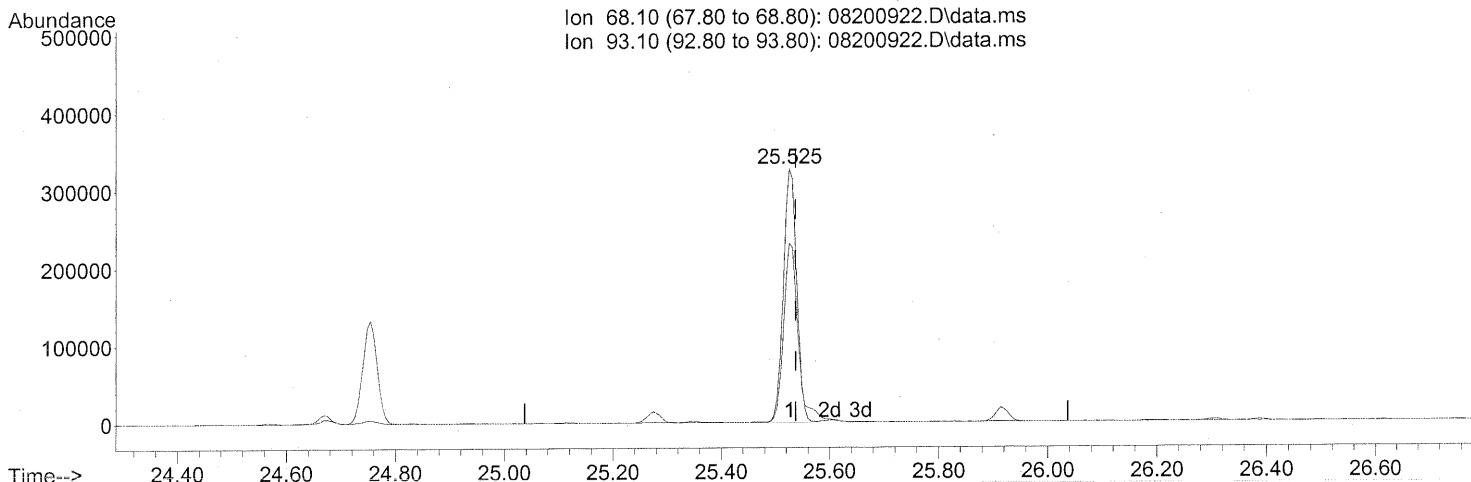
Ion	Exp%	Act%
146.00	100	100
148.00	63.70	59.16
0.00	0.00	0.00
0.00	0.00	0.00

WA
1871 8/22/09
8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200922.D
Acq On : 21 Aug 2009 00:41
Operator : WA
Sample : P0902805-006 (500mL)
Misc : Environmental Health 101400
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 03:58:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

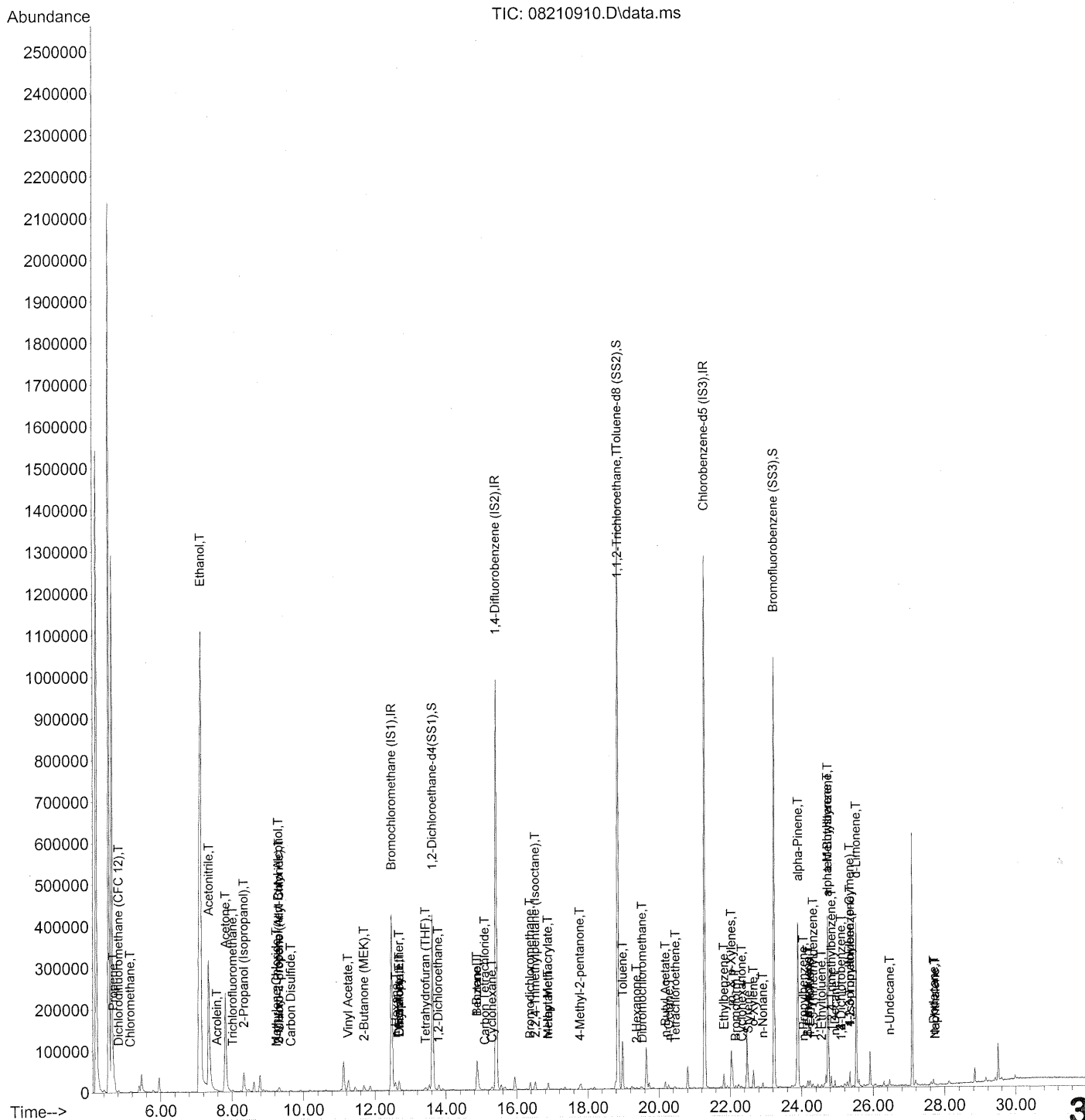


(91) d-Limonene (T)
25.525min (-0.011) 24.36ng
response 555098

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	77.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210910.D
 Acq On : 21 Aug 2009 13:55
 Operator : WA
 Sample : P0902805-006 dil (100mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 22 18:45:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210910.D
 Acq On : 21 Aug 2009 13:55
 Operator : WA
 Sample : P0902805-006 dil (100mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 22 18:45:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	224358	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1139190	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.29	82	542131	25.000	ng	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.62	65	437967	22.459	ng	-0.04
Spiked Amount	25.000		Recovery	=	89.84%	✓
57) Toluene-d8 (SS2)	18.85	98	1234877	26.069	ng	-0.02
Spiked Amount	25.000		Recovery	=	104.28%	✓
73) Bromofluorobenzene (SS3)	23.23	174	341552	27.341	ng	-0.01
Spiked Amount	25.000		Recovery	=	109.36%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	7005	0.455	ng	92
3) Dichlorodifluoromethan...	4.82	85	5986	0.238	ng	# 91
4) Chloromethane	5.15	50	4719	0.279	ng	79
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	2704286	277.106	ng	99
11) Acetonitrile	7.35	41	564540	19.753	ng	100
12) Acrolein	7.57	56	3032	0.408	ng	94
13) Acetone	7.82	58	126465	13.734	ng	97
14) Trichlorofluoromethane	8.02	101	2702	0.119	ng	99
15) 2-Propanol (Isopropanol)	8.33	45	104270	2.882	ng	98
16) Acrylonitrile	8.61	53	97	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	9560	0.298	ng	# 48
19) Methylene Chloride	9.24	84	839	0.068	ng	99
20) 3-Chloro-1-propene (Al...	9.32	41	3637	0.153	ng	# 43
21) Trichlorotrifluoroethane	9.68	151	104	N.D.		
22) Carbon Disulfide	9.65	76	4850	0.111	ng	# 74
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.11	73	869	N.D.		
26) Vinyl Acetate	11.24	86	2888	1.541	ng	# 94
27) 2-Butanone (MEK)	11.69	72	6282	0.756	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	1324	0.119	ng	# 40
30) Ethyl Acetate	12.68	61	1991	0.460	ng	98
31) n-Hexane	12.58	57	11188	0.505	ng	99

NOT NEEDED
 8/24/09

348

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210910.D
 Acq On : 21 Aug 2009 13:55
 Operator : WA
 Sample : P0902805-006 dil (100mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 22 18:45:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	15600	0.800	ng	100
34) Tetrahydrofuran (THF)	13.43	72	1785	0.201	ng #	49
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	3507	0.197	ng	86
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.87	56	59206	4.005	ng	80
41) Benzene	14.87	78	16218	0.324	ng	99
42) Carbon Tetrachloride	15.09	117	1257	0.079	ng	99
43) Cyclohexane	15.29	84	3643	0.199	ng	87
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	6797	0.412	ng	99
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	21467	0.364	ng	93
50) Methyl Methacrylate	16.88	100	1346	0.292	ng #	1
51) n-Heptane	16.88	71	4554	0.339	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	3175	0.264	ng	93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	104854	9.535	ng #	4
58) Toluene	18.98	91	101747	2.186	ng	100
59) 2-Hexanone	19.37	43	3969	0.128	ng	82
60) Dibromochloromethane	19.53	129	2857	0.259	ng	84
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	16159	0.443	ng	92
63) n-Octane	20.28	57	2068	0.184	ng	91
64) Tetrachloroethene	20.46	166	1324	0.123	ng	95
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	32068	0.603	ng	97
67) m- & p-Xylenes	22.03	91	91163	2.118	ng	99
68) Bromoform	22.15	173	801	0.088	ng #	65
69) Styrene	22.50	104	7746	0.249	ng #	60
70) o-Xylene	22.65	91	31888	0.739	ng	98
71) n-Nonane	22.91	43	6077	0.212	ng	80
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.40	105	1890	N.D.		
75) alpha-Pinene	23.90	93	182211	6.520	ng #	42
76) n-Propylbenzene	24.05	91	4312	0.063	ng	89
77) 3-Ethyltoluene	24.17	105	11191	0.215	ng	97
78) 4-Ethyltoluene	24.22	105	6024	0.119	ng	89
79) 1,3,5-Trimethylbenzene	24.31	105	4624	0.109	ng	99

349

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210910.D
 Acq On : 21 Aug 2009 13:55
 Operator : WA
 Sample : P0902805-006 dil (100mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 22 18:45:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

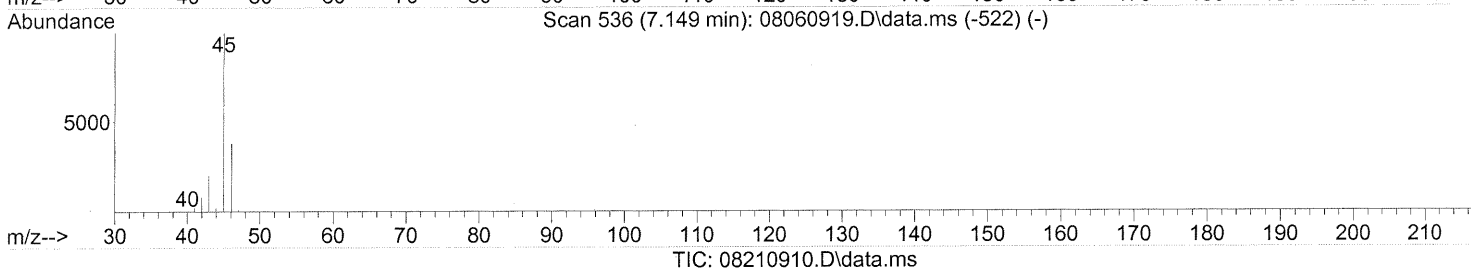
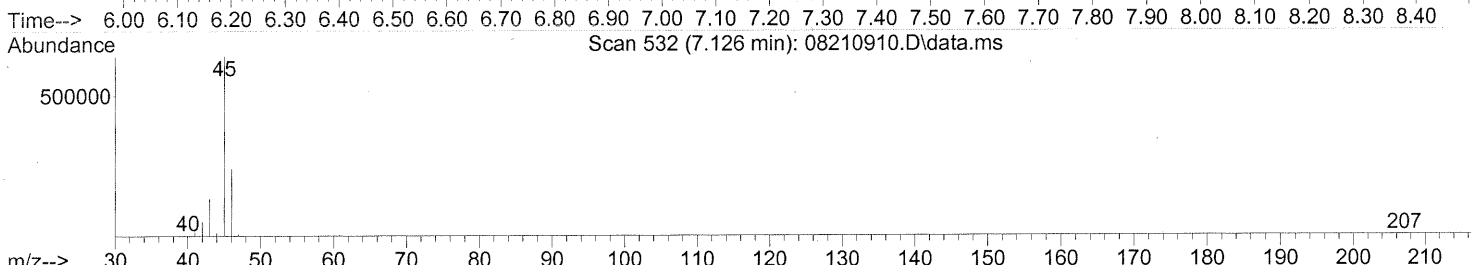
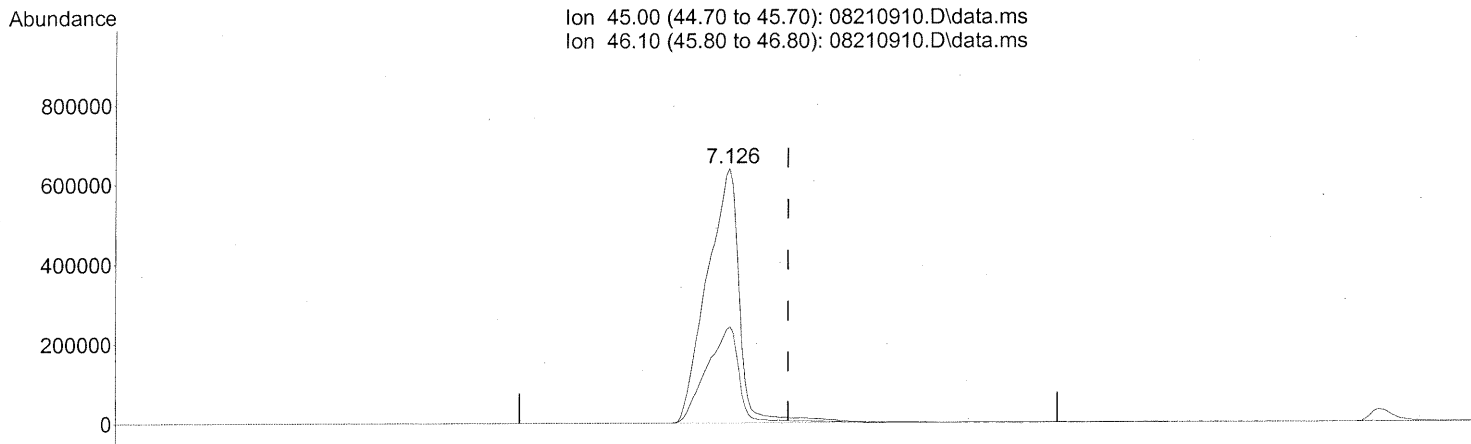
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	5266	0.231	ng	# 9
81) 2-Ethyltoluene	24.55	105	4652	0.089	ng	92
82) 1,2,4-Trimethylbenzene	24.83	105	15200	0.350	ng	88
83) n-Decane	24.93	57	6408	0.227	ng	98
84) Benzyl Chloride	25.11	91	326	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	1599	0.073	ng	98
86) 1,4-Dichlorobenzene	25.10	146	1599	0.068	ng	98
87) sec-Butylbenzene	25.15	105	403	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	17675	0.338	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	4361	0.099	ng	# 61
90) 1,2-Dichlorobenzene	25.10	146	1599	0.077	ng	100
91) d-Limonene	25.53	68	98802	5.350	ng	89
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	6576	0.219	ng	90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	3710	0.063	ng	86
96) n-Dodecane	27.70	57	5777	0.166	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	2764	0.143	ng	# 89
99) tert-Butylbenzene	24.73	119	9311	0.222	ng	99
100) n-Butylbenzene	25.86	91	1293	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210910.D
 Acq On : 21 Aug 2009 13:55
 Operator : WA
 Sample : P0902805-006 dil (100mL)
 Misc : Environmental Health 101400
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 22 18:45:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.126min (-0.109) 277.11ng
 response 2704286

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	37.99
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101401

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P0902805-007

Test Code: EPA TO-15

Date Collected: 8/13/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/14/09

Analyst: Wida Ang

Date Analyzed: 8/21/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01314

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.0	0.63	0.59	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.63	0.53	0.13	
74-87-3	Chloromethane	0.42	0.13	0.20	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.090	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.048	
64-17-5	Ethanol	53	6.3	28	3.3	
75-05-8	Acetonitrile	3.3	0.63	2.0	0.38	
107-02-8	Acrolein	0.84	0.63	0.37	0.27	
67-64-1	Acetone	50	6.3	21	2.7	
75-69-4	Trichlorofluoromethane	1.9	0.13	0.33	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.9	0.63	1.6	0.26	
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	0.73	0.63	0.21	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.61	0.13	0.080	0.016	
75-15-0	Carbon Disulfide	2.8	0.63	0.89	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	4.8	0.63	1.6	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/2/09

352

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101401
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01314

CAS Project ID: P0902805
CAS Sample ID: P0902805-007

Date Collected: 8/13/09
Date Received: 8/14/09
Date Analyzed: 8/21/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	1.6	0.63	0.44	0.17	
110-54-3	n-Hexane	1.5	0.63	0.43	0.18	
67-66-3	Chloroform	0.33	0.13	0.068	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	0.83	0.13	0.26	0.039	
56-23-5	Carbon Tetrachloride	0.44	0.13	0.071	0.020	
110-82-7	Cyclohexane	ND	0.63	ND	0.18	
78-87-5	1,2-Dichloropropane	0.41	0.13	0.089	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	0.23	0.13	0.042	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	ND	0.63	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	7.2	0.63	1.8	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	8.4	0.63	2.2	0.17	
591-78-6	2-Hexanone	ND	0.63	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.016	
123-86-4	n-Butyl Acetate	4.0	0.63	0.83	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/3/09 **353**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101401
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P0902805-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01314

Date Collected: 8/13/09
 Date Received: 8/14/09
 Date Analyzed: 8/21/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result μg/m ³	MRL μg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.63	0.63	0.14	0.13	
127-18-4	Tetrachloroethene	0.42	0.13	0.062	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	15	0.63	3.5	0.15	
179601-23-1	m,p-Xylenes	56	0.63	13	0.15	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	18	0.63	4.2	0.15	
111-84-2	n-Nonane	1.9	0.63	0.36	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.018	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	1.1	0.63	0.20	0.11	
103-65-1	n-Propylbenzene	ND	0.63	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.63	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.3	0.63	0.26	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.15	0.13	0.026	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	1.2	0.63	0.22	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	ND	0.085	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

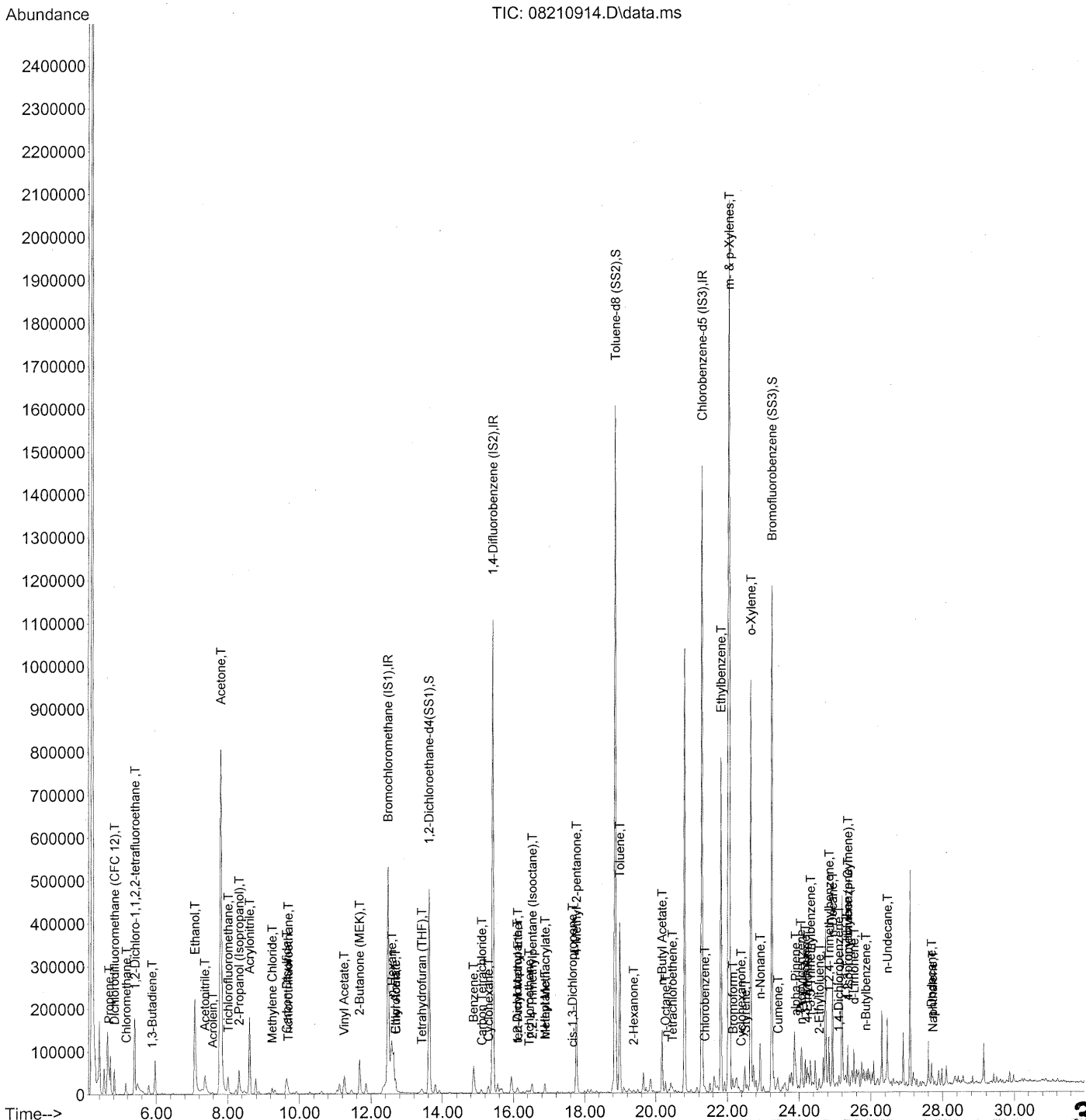
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/3/09 **354**

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:59:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	255322	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1283241	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.29	82	610477	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	499554	22.511	ng	-0.04
Spiked Amount	25.000		Recovery	=	90.04%	✓
57) Toluene-d8 (SS2)	18.85	98	1385445	25.973	ng	-0.02
Spiked Amount	25.000		Recovery	=	103.88%	✓
73) Bromofluorobenzene (SS3)	23.23	174	388364	27.608	ng	-0.01
Spiked Amount	25.000		Recovery	=	110.44%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	14141m	0.807	ng	
3) Dichlorodifluoromethan...	4.82	85	59794	2.088	ng	98
4) Chloromethane	5.16	50	6374	0.331	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	881	0.076	ng	# 63
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	737	0.056	ng	# 48
8) Bromomethane	6.37	94	416	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.07	45	471178	42.426	ng	100
11) Acetonitrile	7.35	41	85492	2.629	ng	92
12) Acrolein	7.57	56	5664	0.670	ng	94
13) Acetone	7.81	58	414594	39.565	ng	88
14) Trichlorofluoromethane	8.01	101	38589	1.491	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	129010	3.133	ng	95
16) Acrylonitrile	8.61	53	3289	0.174	ng	# 15
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.37	59	89	N.D.		
19) Methylene Chloride	9.24	84	8157	0.580	ng	94
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.68	151	4574	0.486	ng	98
22) Carbon Disulfide	9.64	76	109196	2.201	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.24	86	2515	1.179	ng	# 1
27) 2-Butanone (MEK)	11.67	72	36194	3.825	ng	# 90
28) cis-1,2-Dichloroethene	12.41	61	86	N.D.		
29) Diisopropyl Ether	12.68	87	548	N.D.		
30) Ethyl Acetate	12.68	61	6182	1.254	ng	87
31) n-Hexane	12.58	57	30665	1.216	ng	100

356

PA 8/24/09

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
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 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:59:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	5846	0.263 ng		88
34) Tetrahydrofuran (THF)	13.42	72	3401	0.337 ng	#	63
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	985	N.D.		
38) 1,1,1-Trichloroethane	14.17	97	514	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.01	56	108	N.D.		
41) Benzene	14.87	78	36969	0.655 ng		99
42) Carbon Tetrachloride	15.11	117	6352	0.353 ng		94
43) Cyclohexane	15.29	84	8903	0.431 ng		96
44) tert-Amyl Methyl Ether	16.12	73	4355	0.103 ng	#	52
45) 1,2-Dichloropropane	16.10	63	4637	0.327 ng		94
46) Bromodichloromethane	16.38	83	652	N.D.		
47) Trichloroethene	16.44	130	2278	0.179 ng		93
48) 1,4-Dioxane	16.53	88	88	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	26076	0.392 ng		94
50) Methyl Methacrylate	16.89	100	2116	0.407 ng	#	1
51) n-Heptane	16.88	71	6900	0.456 ng		98
52) cis-1,3-Dichloropropene	17.65	75	1577	0.067 ng	#	55
53) 4-Methyl-2-pentanone	17.76	58	77888	5.744 ng		99
54) trans-1,3-Dichloropropene	18.36	75	868	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	348709	6.652 ng		99
59) 2-Hexanone	19.37	43	7459	0.214 ng		79
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	129091	3.142 ng		96
63) n-Octane	20.27	57	6354	0.501 ng		90
64) Tetrachloroethene	20.46	166	4073	0.336 ng		89
65) Chlorobenzene	21.37	112	2312	0.071 ng	#	43
66) Ethylbenzene	21.82	91	727906	12.146 ng		98
67) m- & p-Xylenes	22.04	91	2141224	44.169 ng		97
68) Bromoform	22.16	173	1261	0.122 ng		72
69) Styrene	22.50	104	8453	0.241 ng		94
70) o-Xylene	22.65	91	702973	14.463 ng		96
71) n-Nonane	22.91	43	48837	1.512 ng		92
72) 1,1,2,2-Tetrachloroethane	22.65	83	336	N.D.		
74) Cumene	23.41	105	16706	0.272 ng		99
75) alpha-Pinene	23.90	93	27717	0.881 ng	#	42
76) n-Propylbenzene	24.05	91	18103	0.235 ng	#	88
77) 3-Ethyltoluene	24.17	105	40035	0.682 ng		99
78) 4-Ethyltoluene	24.22	105	20546	0.361 ng		98
79) 1,3,5-Trimethylbenzene	24.31	105	14927	0.311 ng		98

Data Path : J:\MS13\DATA\2009_08\21\
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 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:59:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

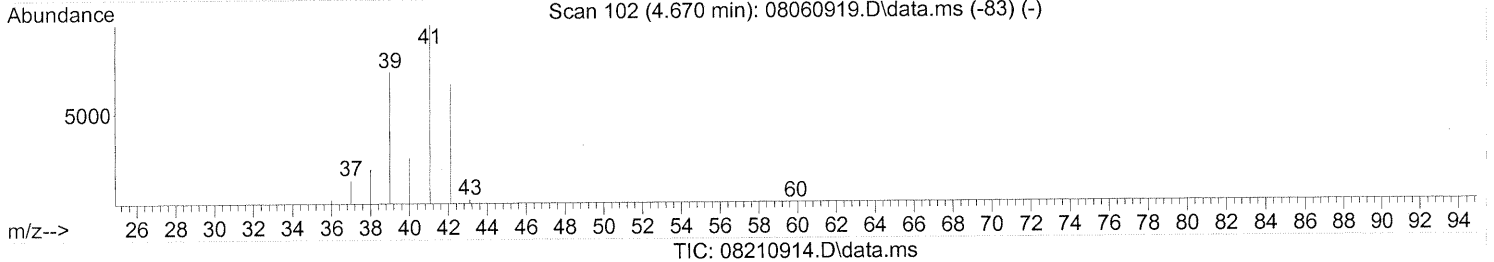
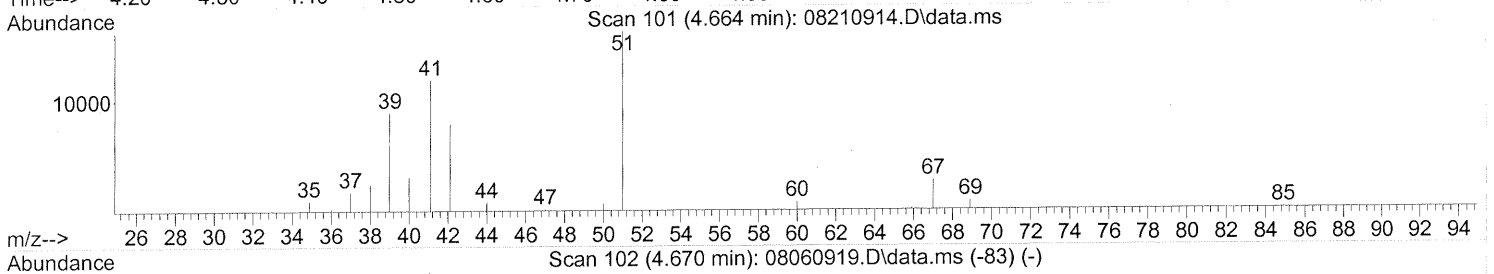
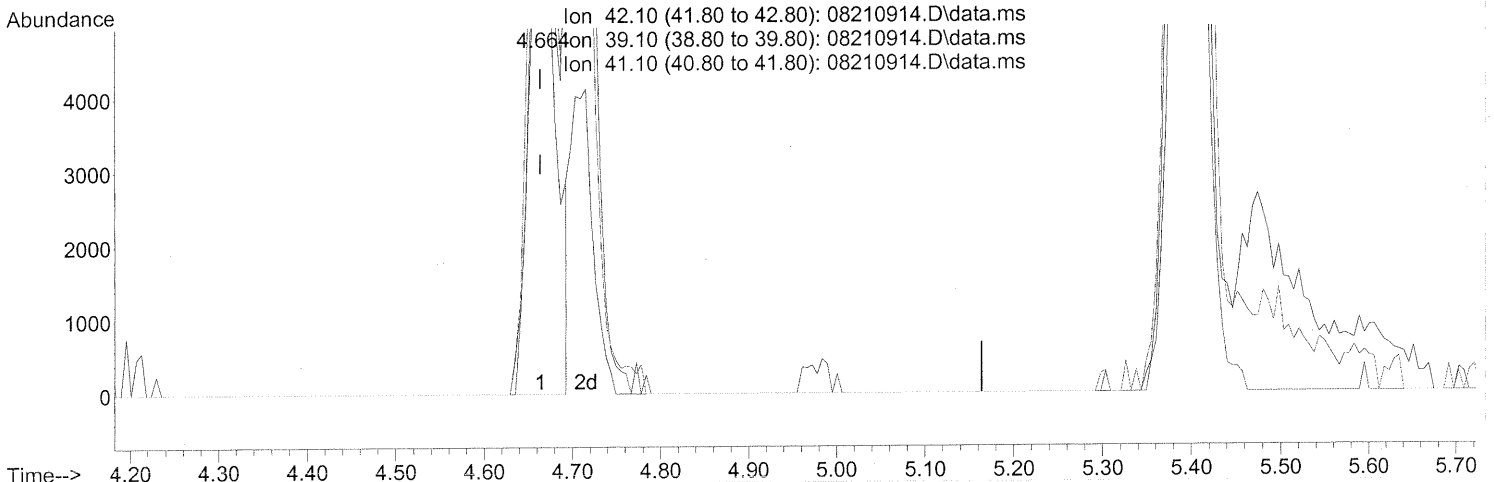
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	580	N.D.		
81) 2-Ethyltoluene	24.56	105	15804	0.267 ng		97
82) 1,2,4-Trimethylbenzene	24.83	105	50474	1.032 ng		89
83) n-Decane	24.93	57	90810	2.856 ng		93
84) Benzyl Chloride	25.05	91	118	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	25.10	146	3255	0.123 ng		100
87) sec-Butylbenzene	25.15	105	1974	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	8388	0.142 ng		79
89) 1,2,3-Trimethylbenzene	25.35	105	15756	0.316 ng		99
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. d		
91) d-Limonene	25.53	68	20352	0.979 ng	#	74
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	56122	1.659 ng		89
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	12918	0.195 ng		99
96) n-Dodecane	27.69	57	16874	0.429 ng		98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.38	55	1439	0.066 ng	#	21
99) tert-Butylbenzene	25.27	119	2044	N.D.		
100) n-Butylbenzene	25.86	91	7615	0.140 ng	#	50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
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 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 0.86ng

response 15129

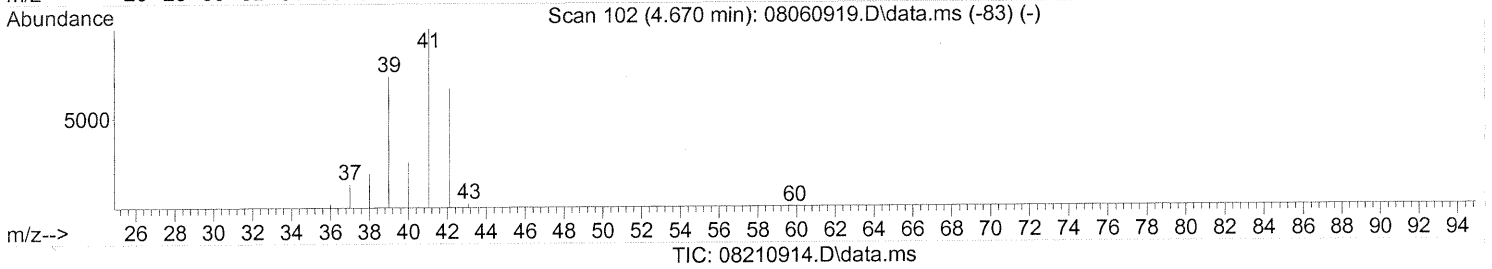
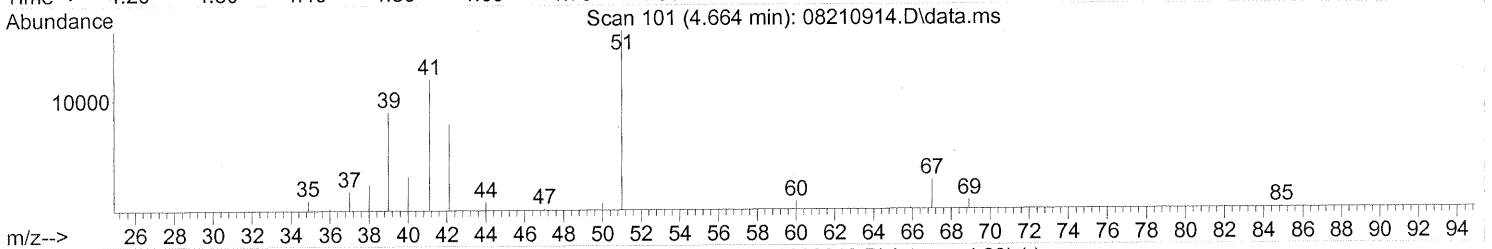
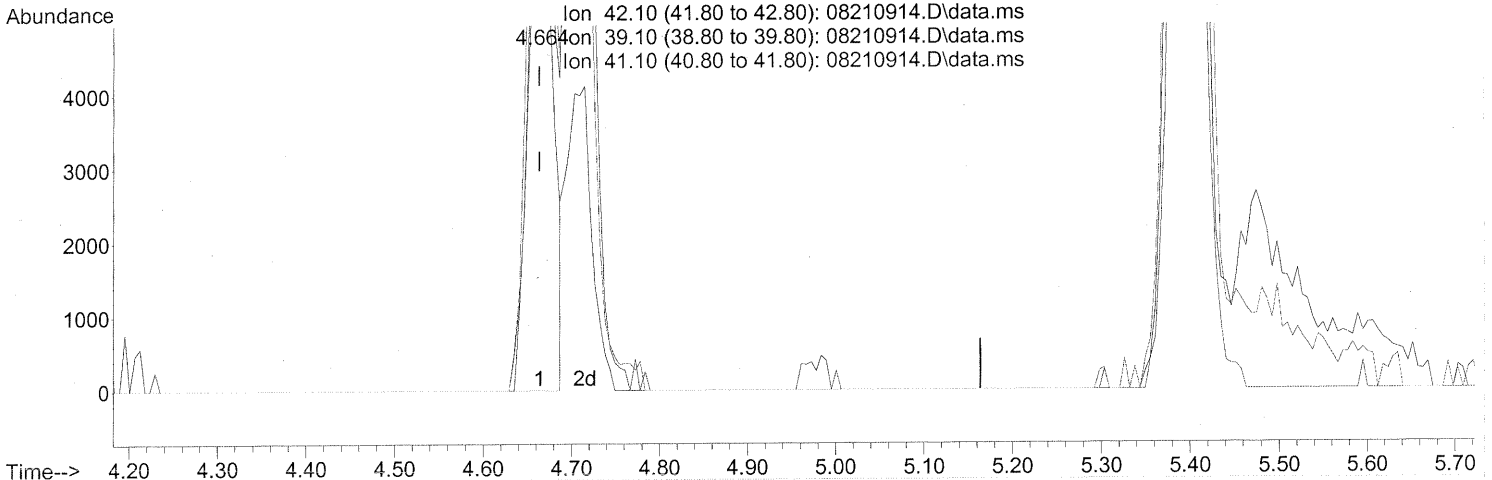
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	109.37
41.10	150.20	148.39
0.00	0.00	0.00

IPI

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 0.81ng m

response 14141

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	117.01
41.10	150.20	158.76
0.00	0.00	0.00

IP1 → IC

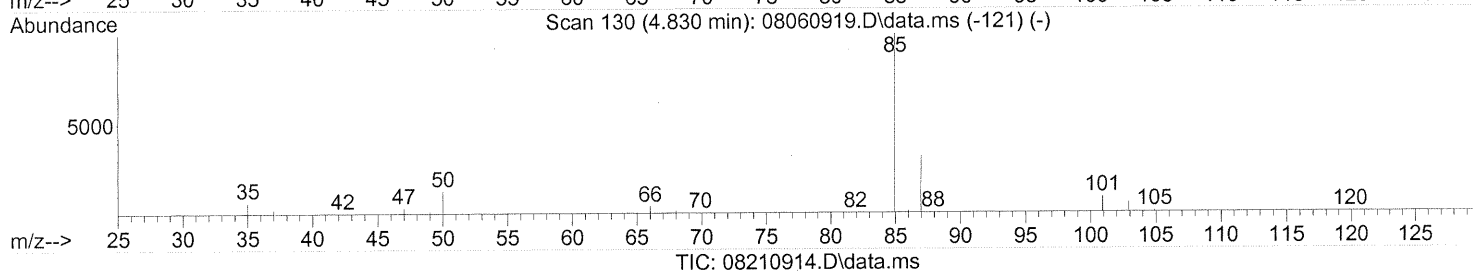
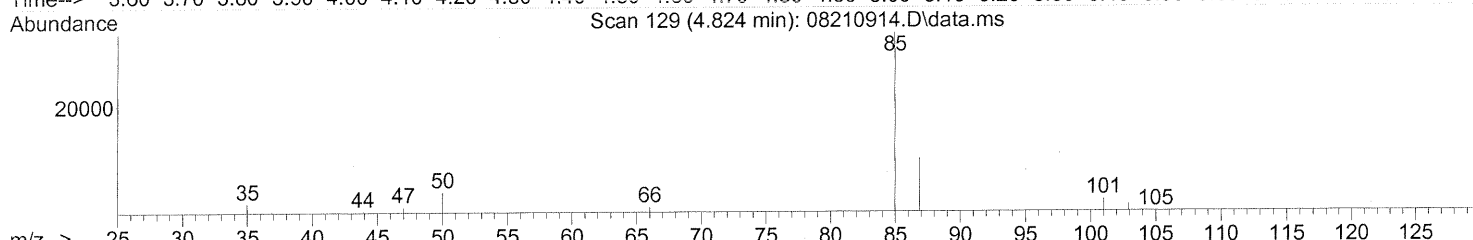
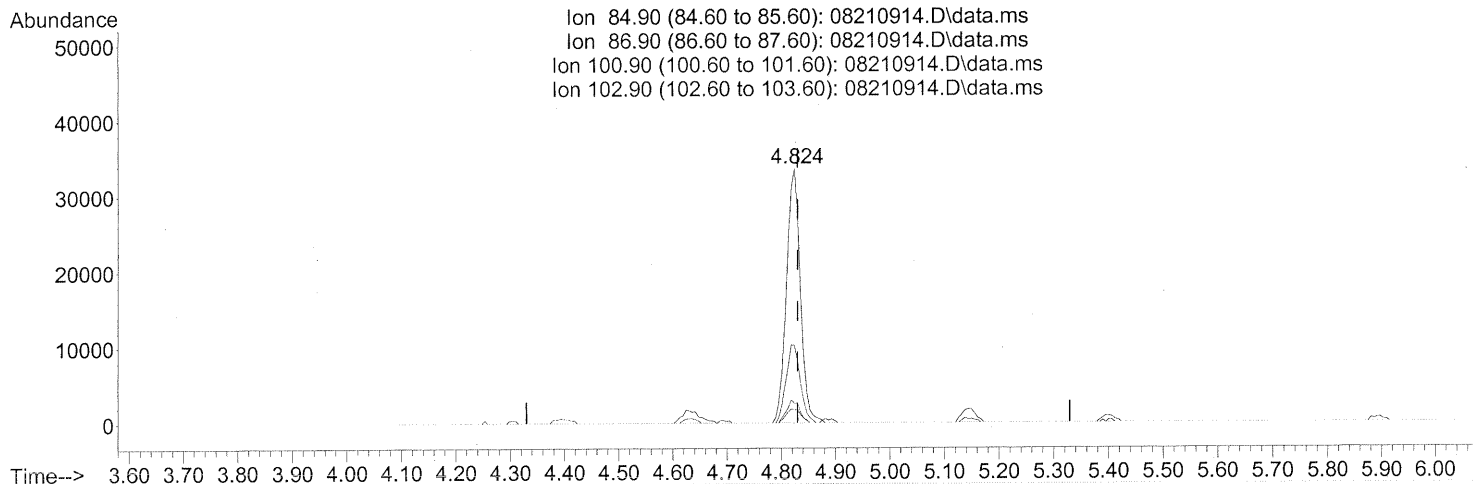
DA 8/24/09

8/26/09

Quantitation Report (Qedit)

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(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 2.09ng

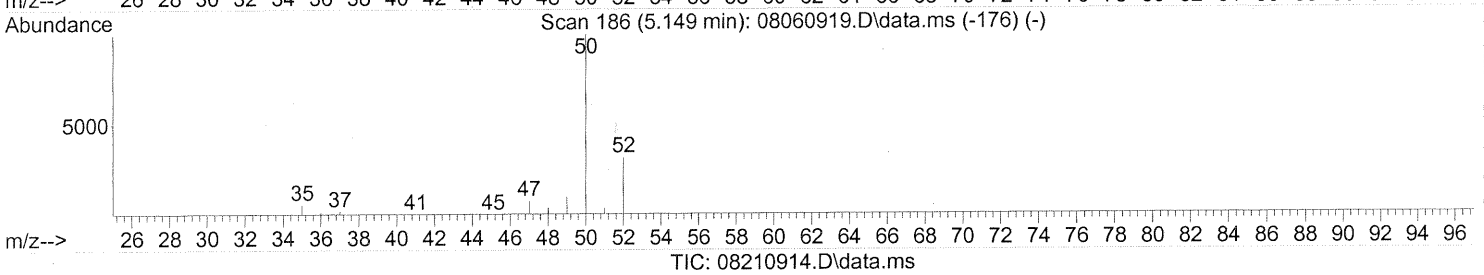
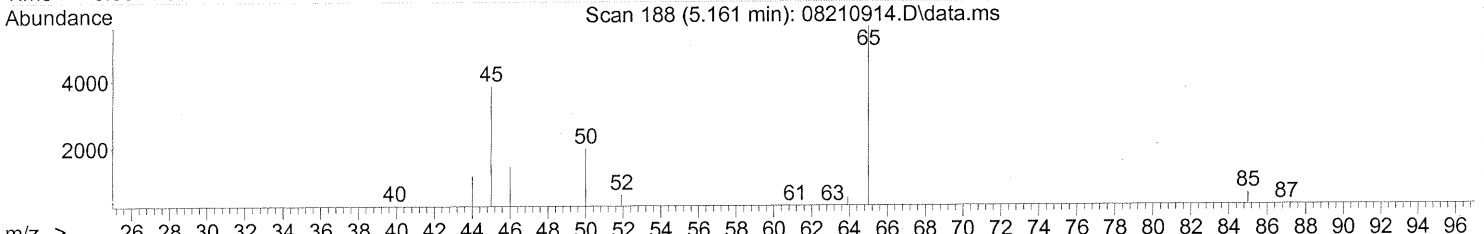
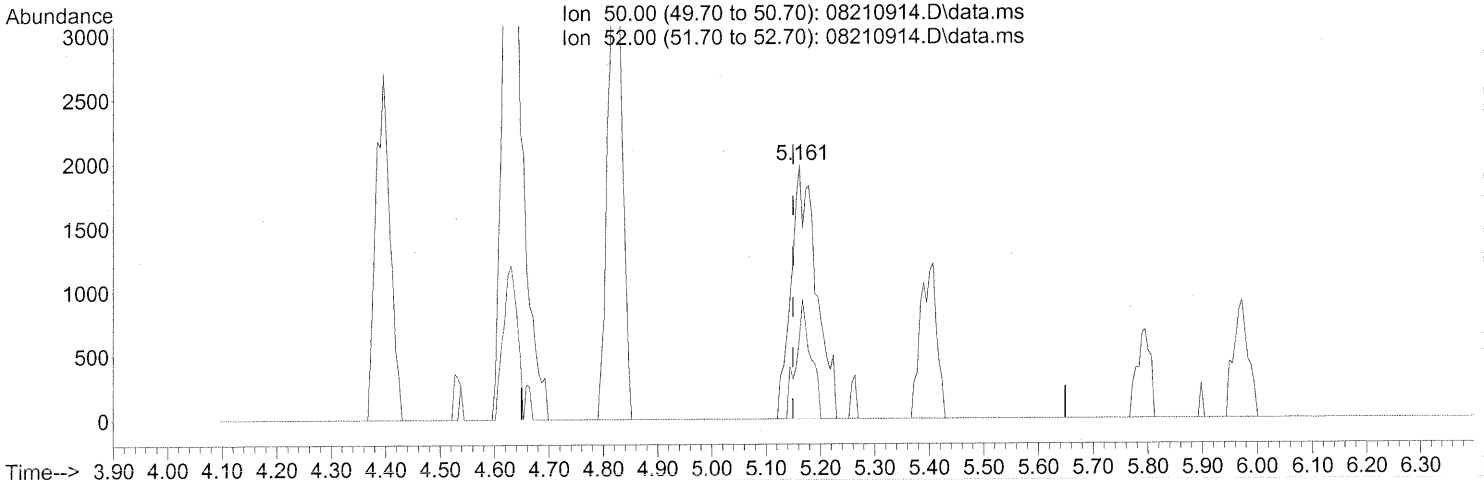
response 59794

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.19
100.90	8.80	8.39
102.90	5.20	5.73

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(4) Chloromethane (T)

5.161min (+0.011) 0.33ng

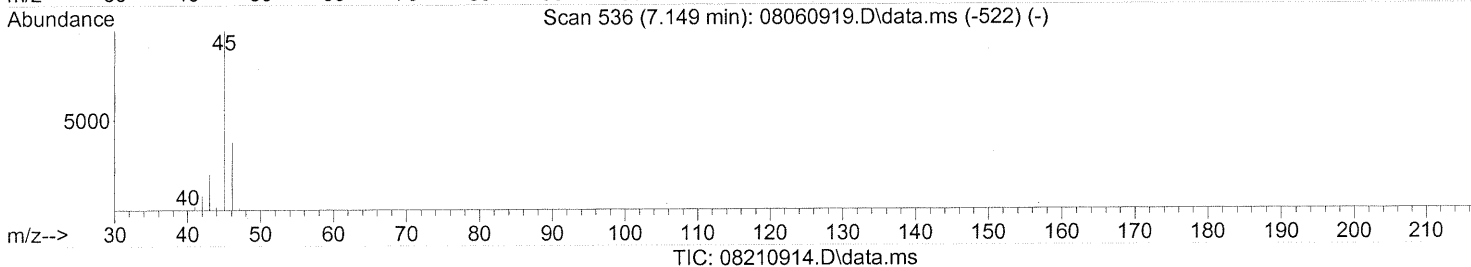
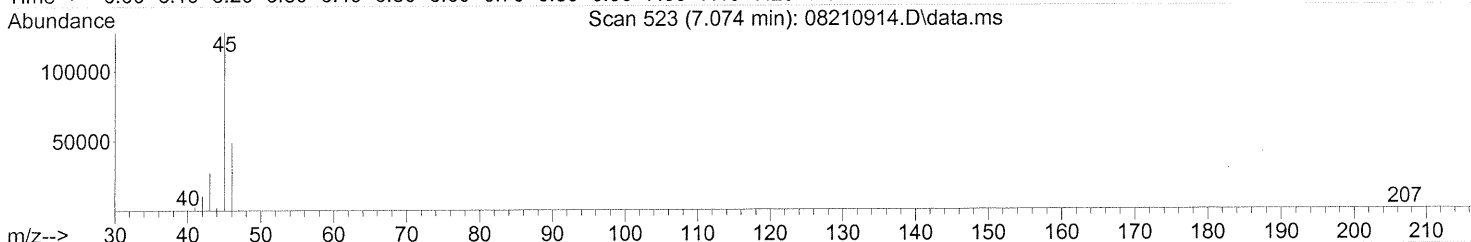
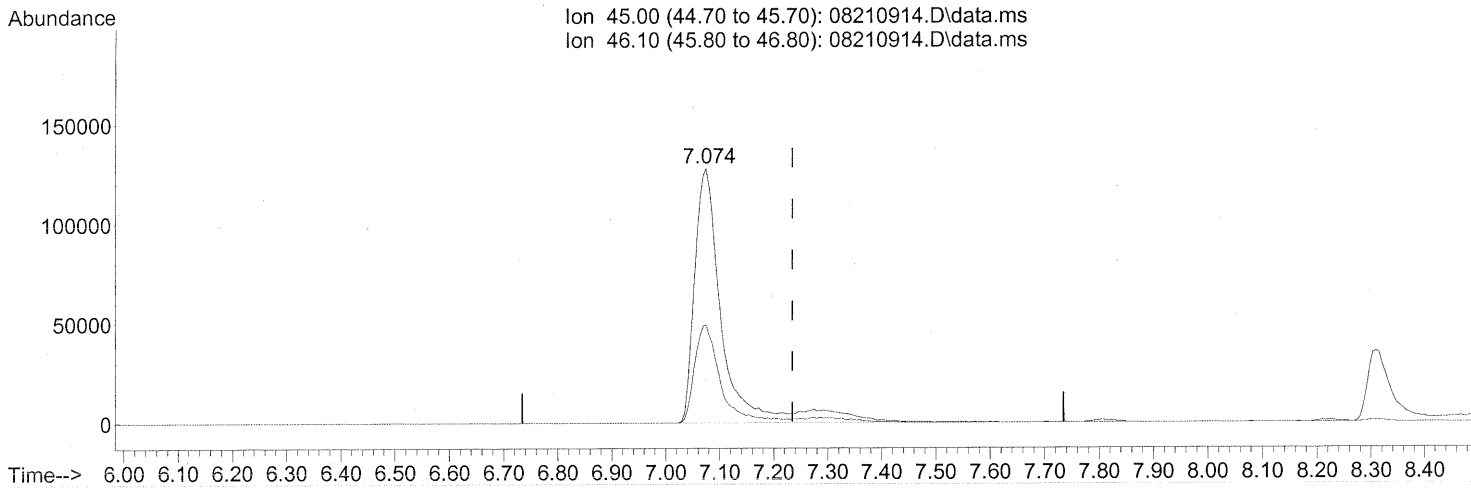
response 6374

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	27.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(10) Ethanol (T)

7.074min (-0.160) 42.43ng

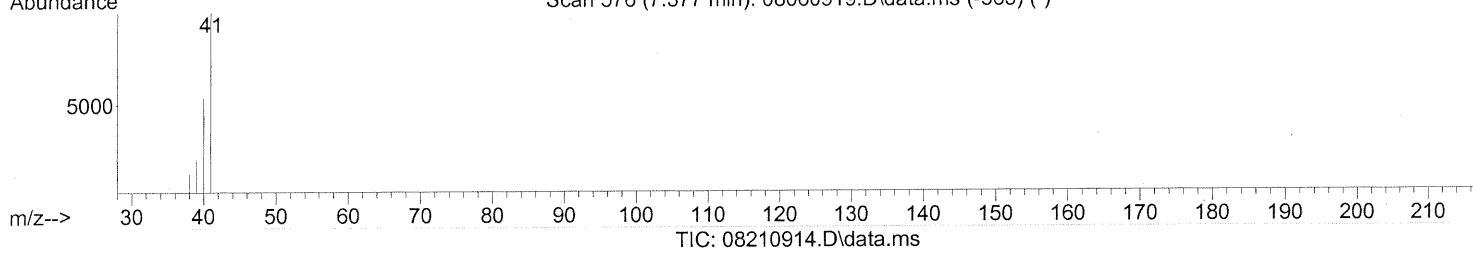
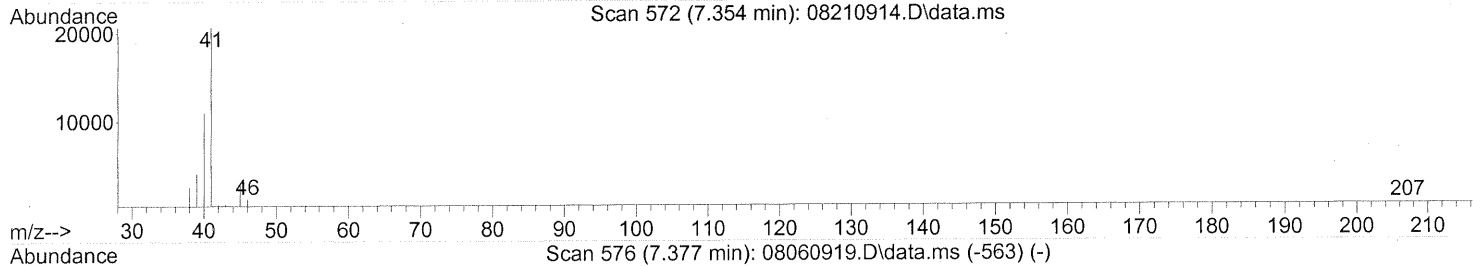
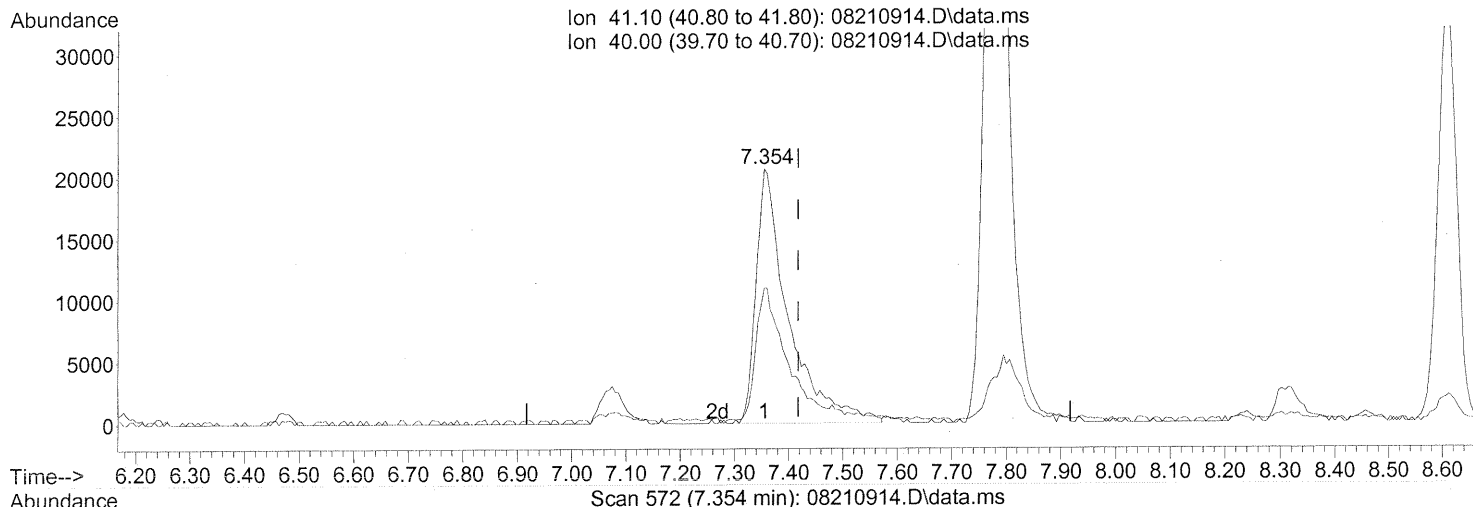
response 471178

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(11) Acetonitrile (T)

7.354min (-0.063) 2.63ng

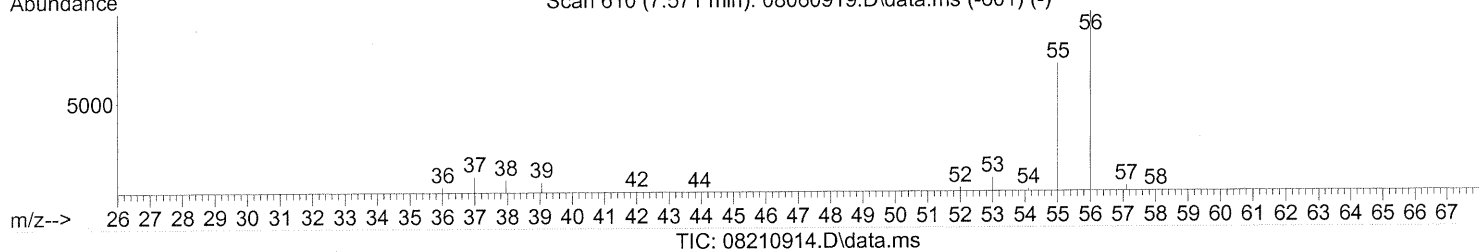
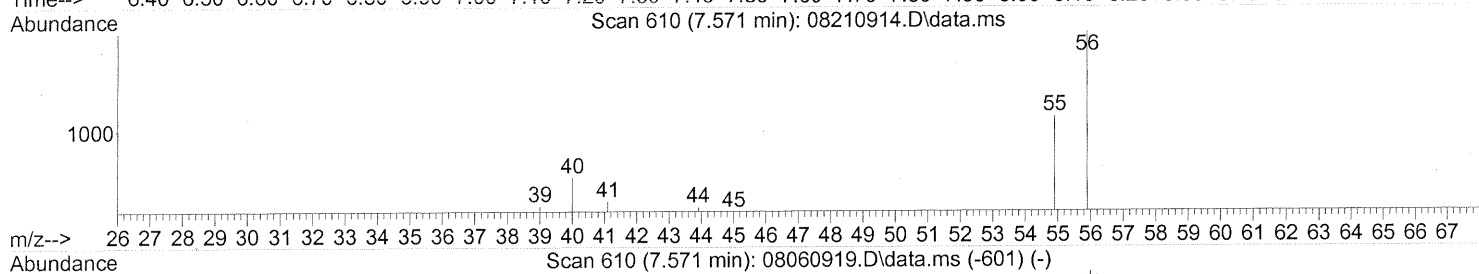
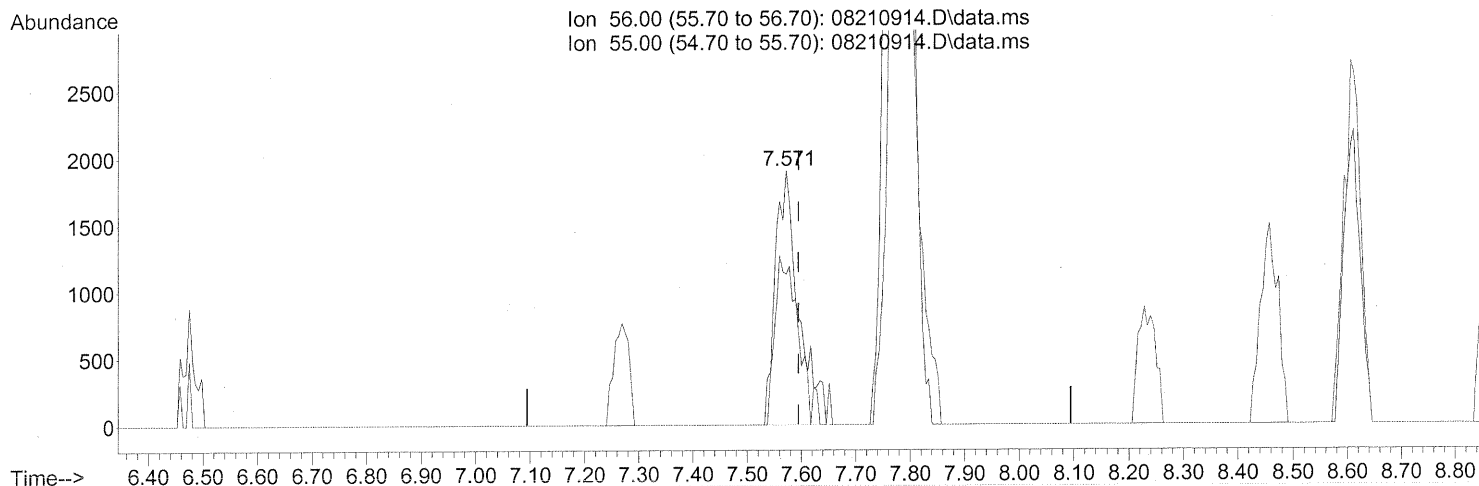
response 85492

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	59.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 0.67ng

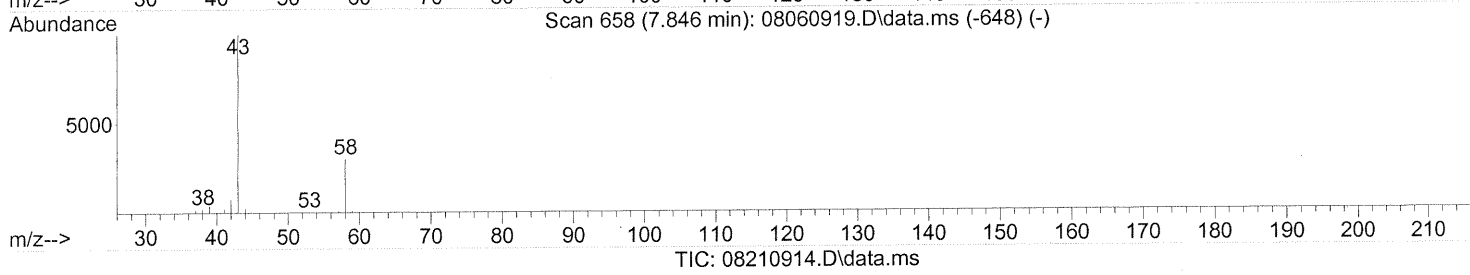
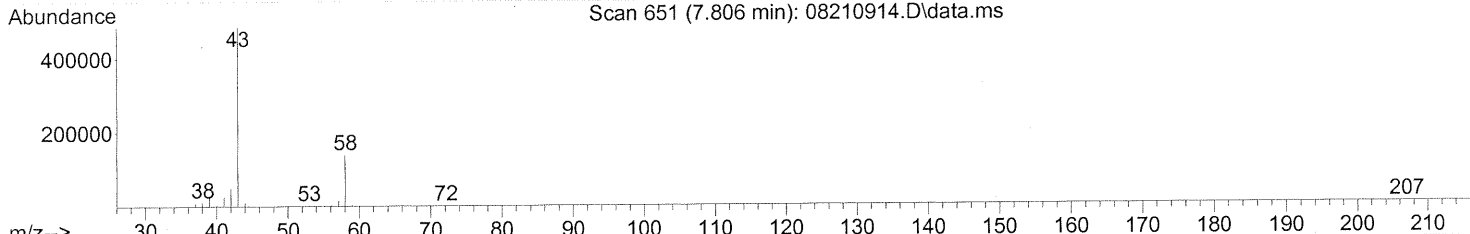
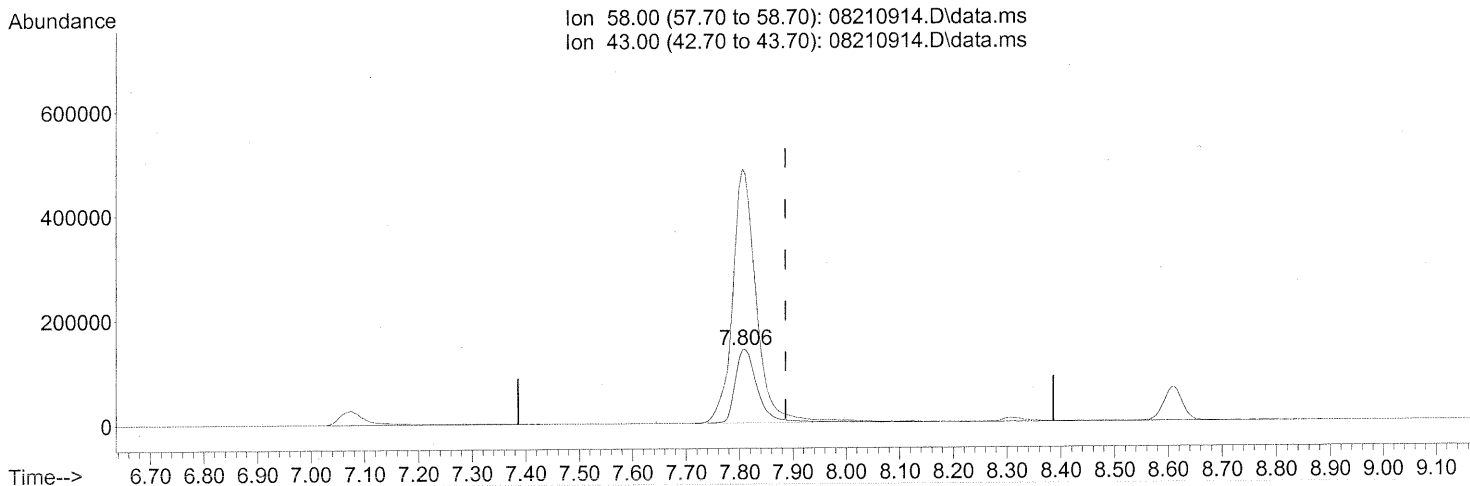
response 5664

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	63.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.806min (-0.080) 39.56ng

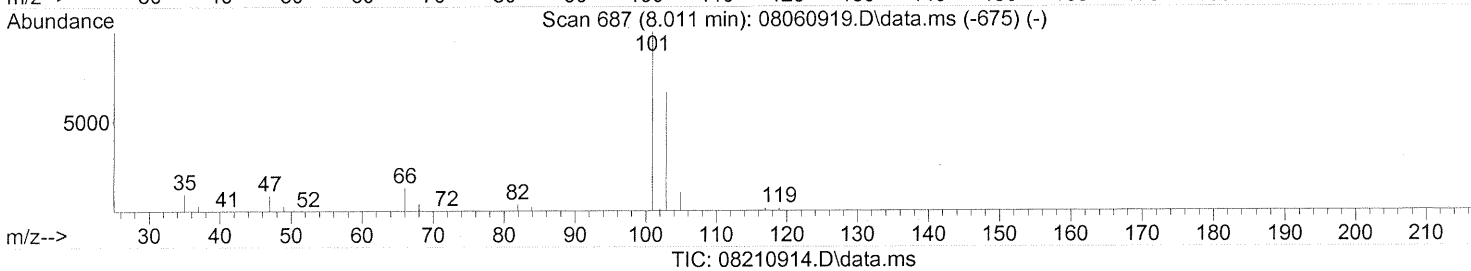
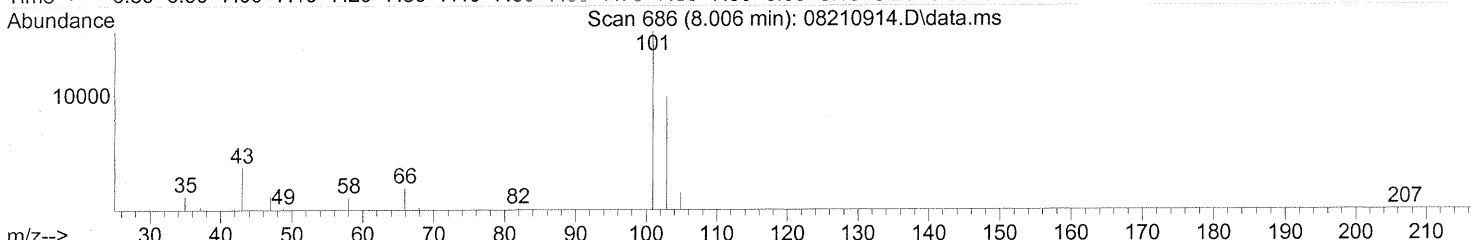
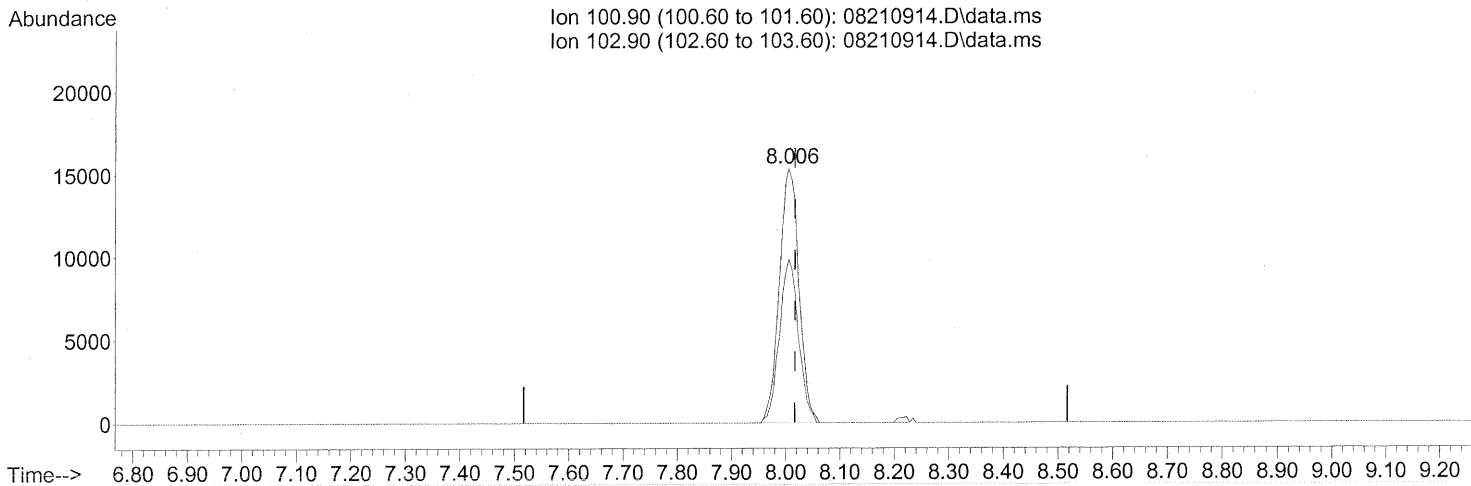
response 414594

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	365.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.006min (-0.011) 1.49ng

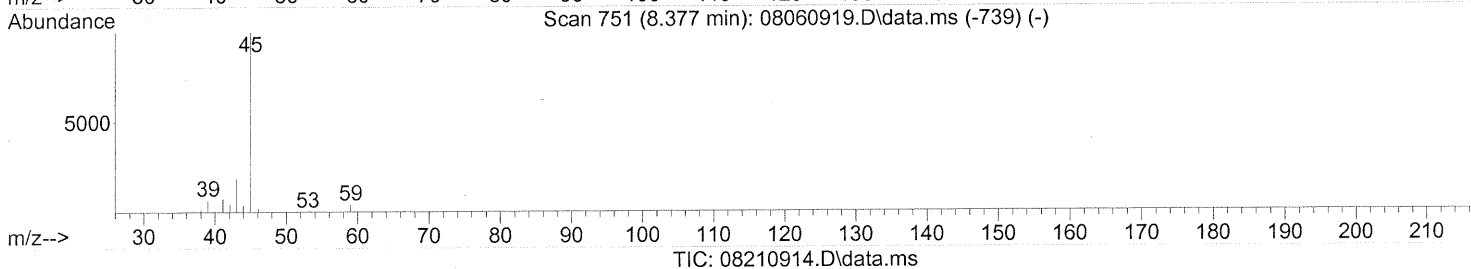
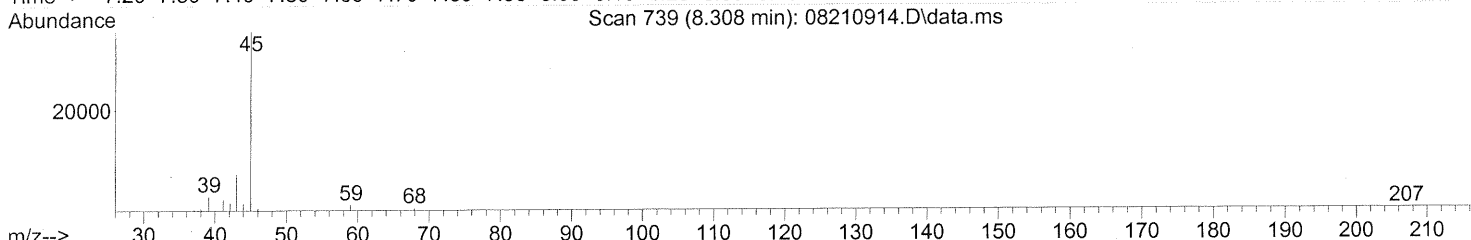
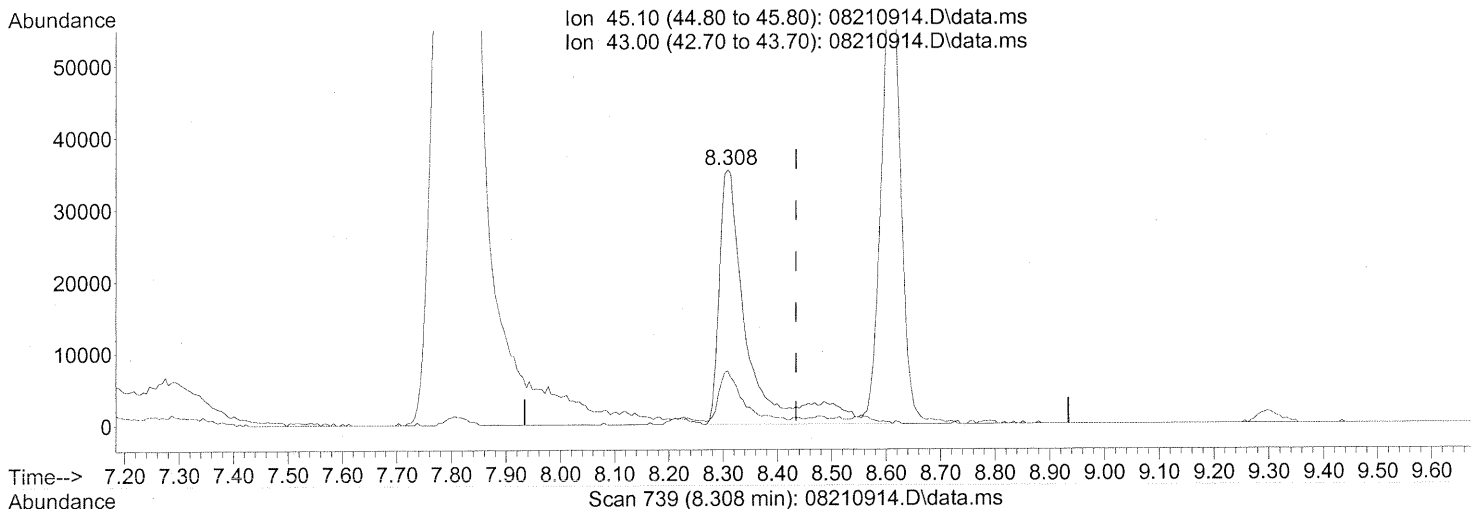
response 38589

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	62.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.308min (-0.126) 3.13ng

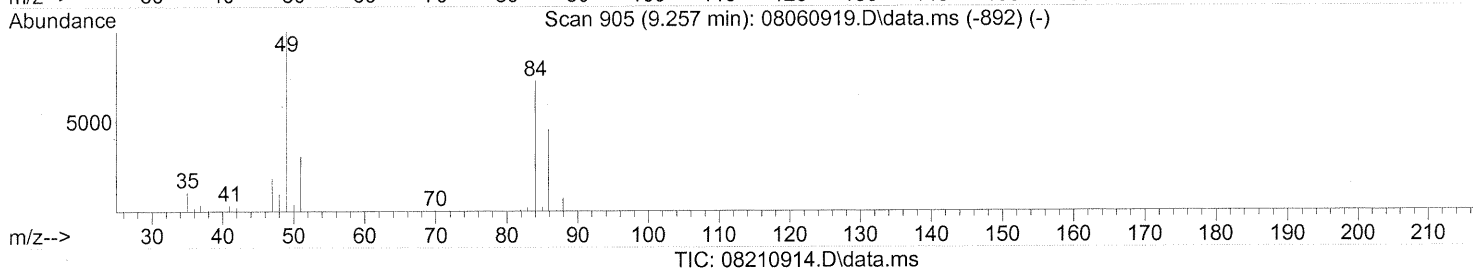
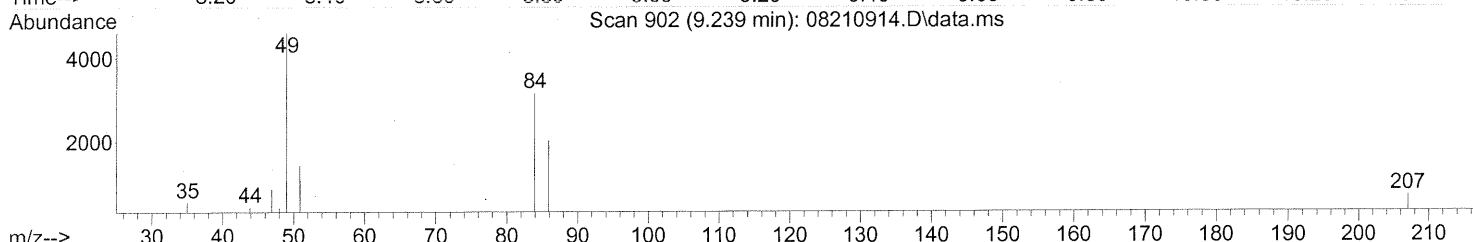
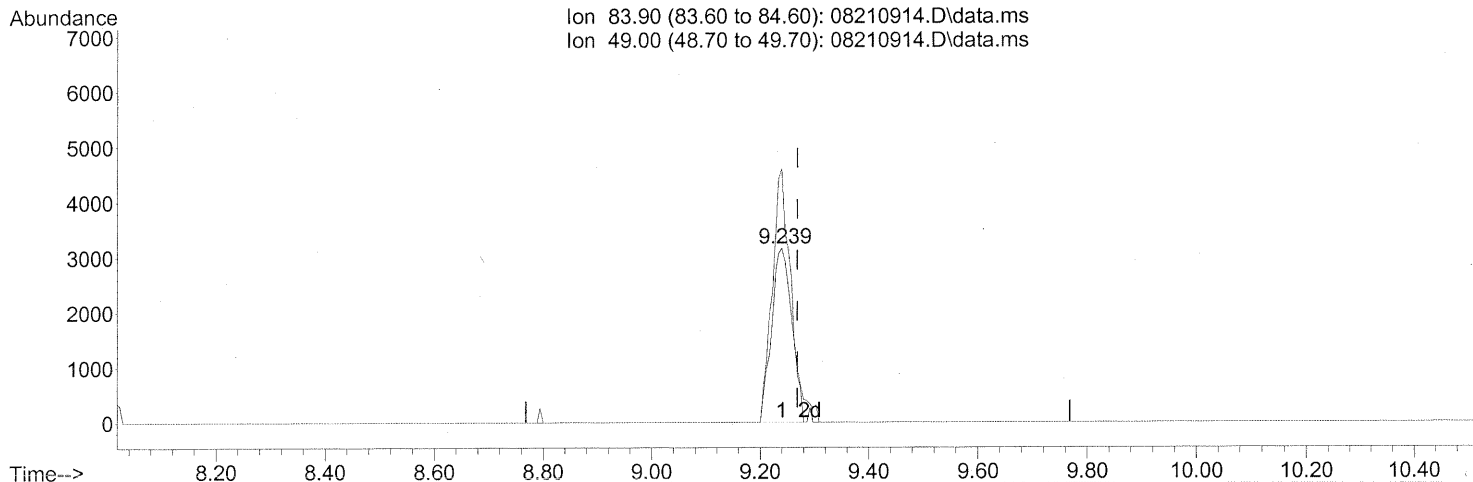
response 129010

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	16.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.239min (-0.028) 0.58ng

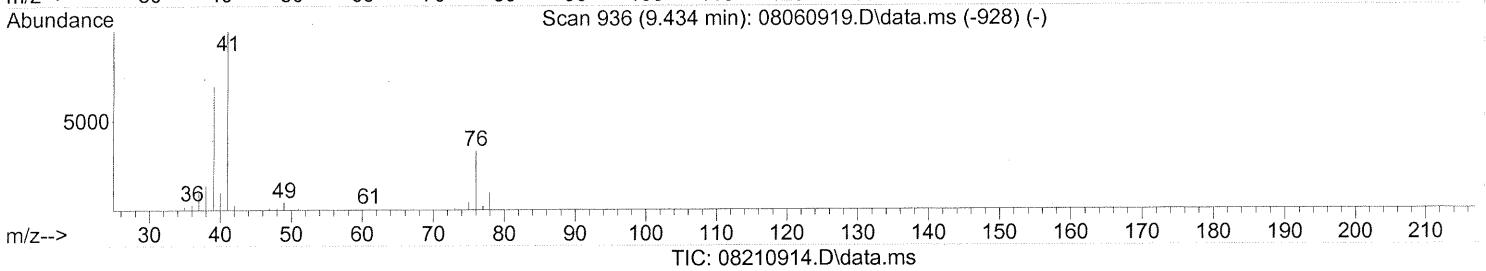
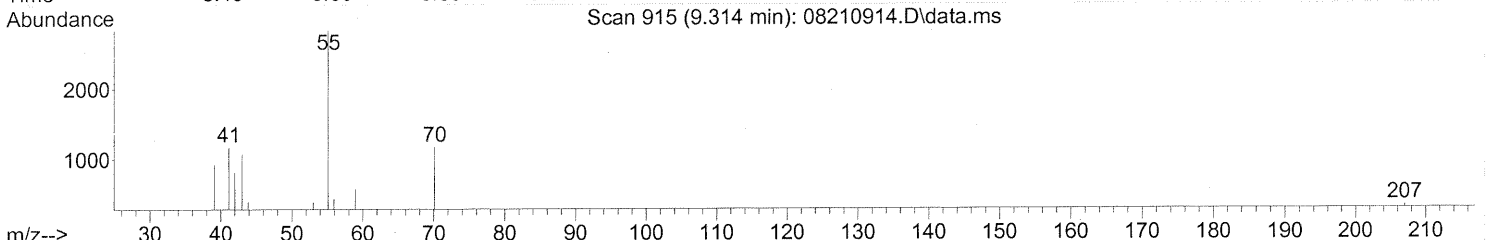
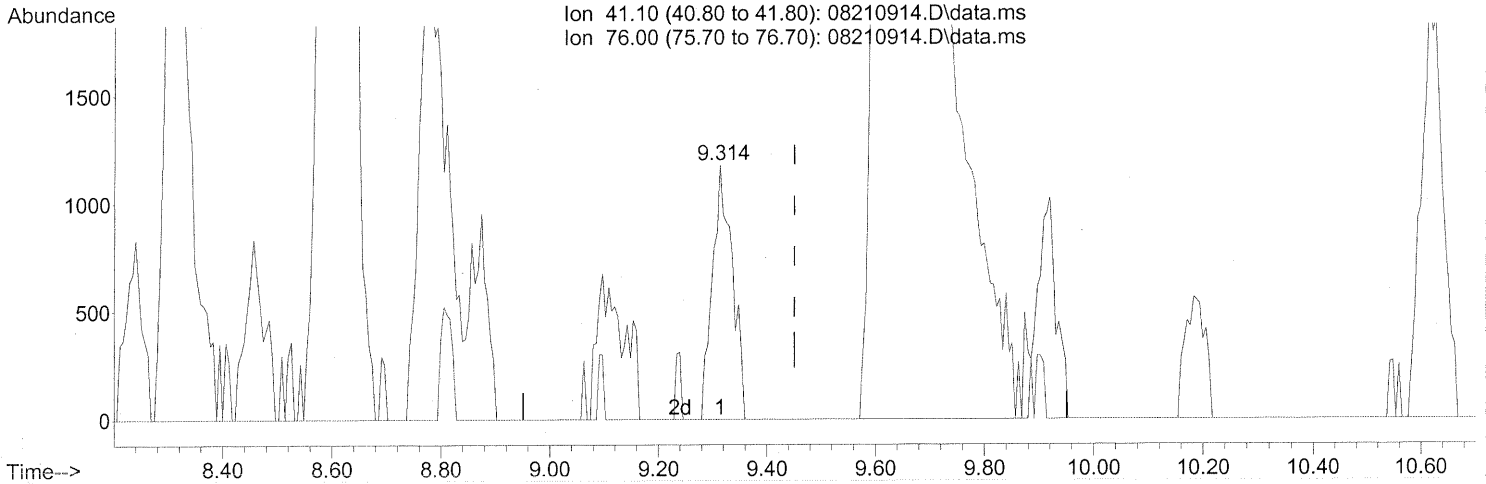
response 8157

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	137.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.314min (-0.137) 0.11ng

response 3010

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

TP

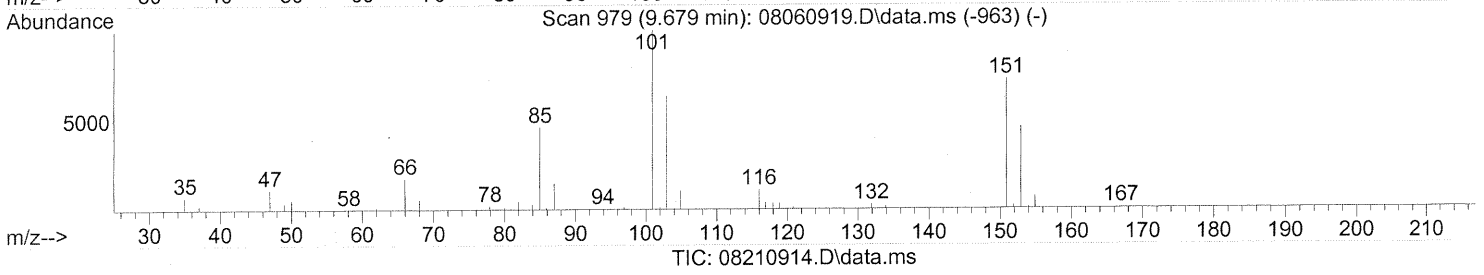
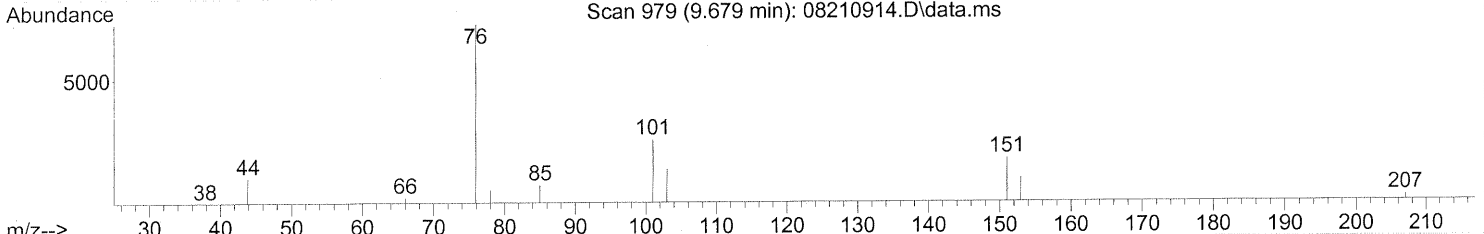
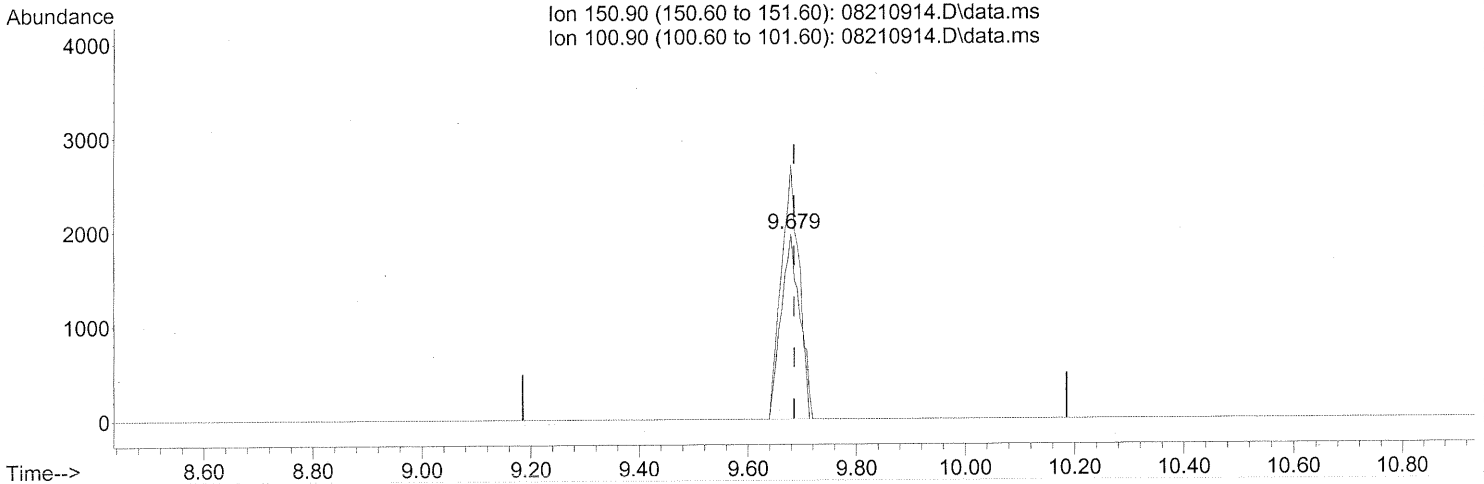
8/24/09

8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.49ng

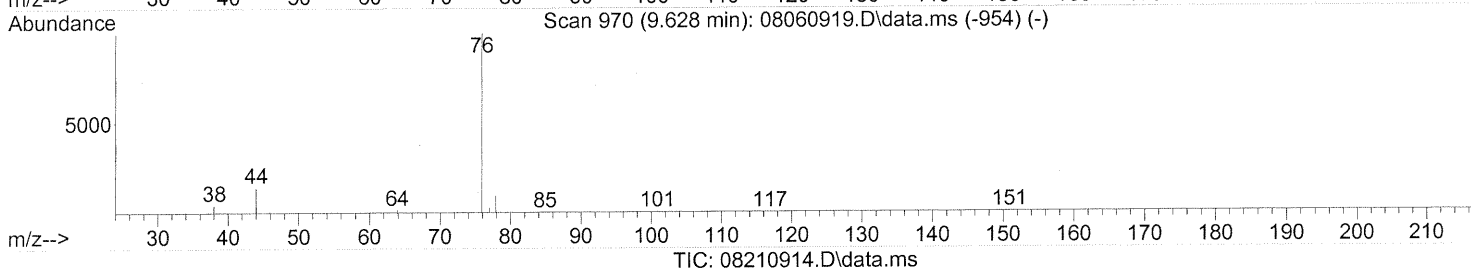
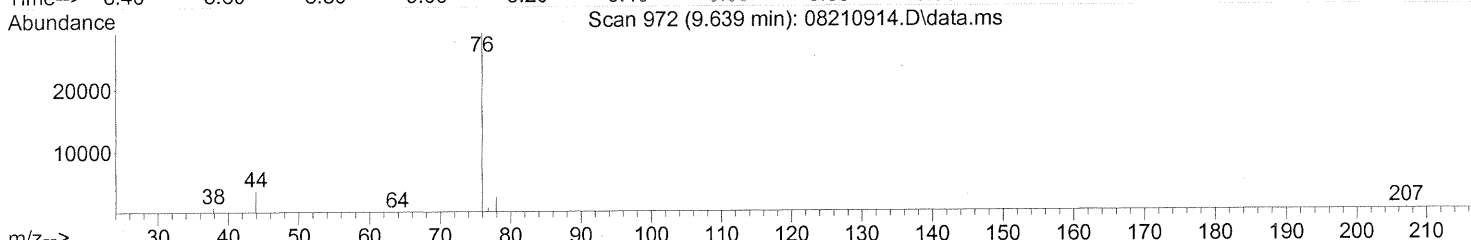
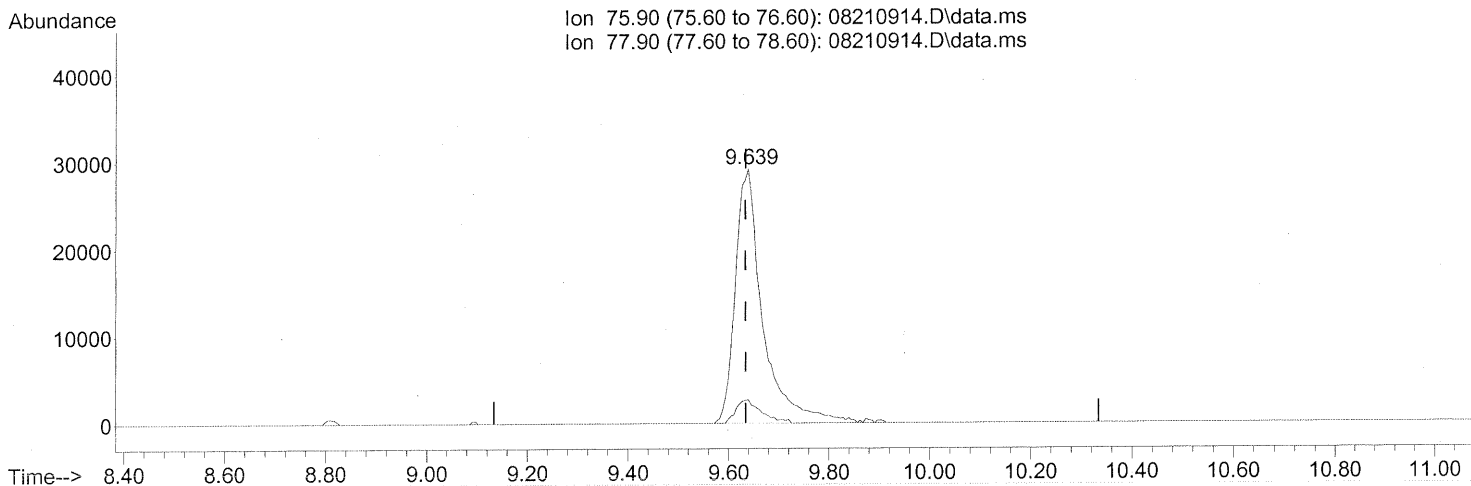
response 4574

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	136.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.639min (+0.006) 2.20ng

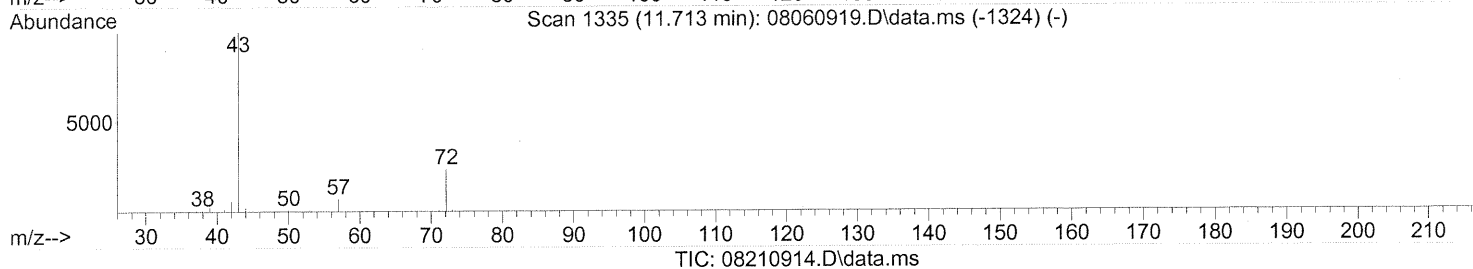
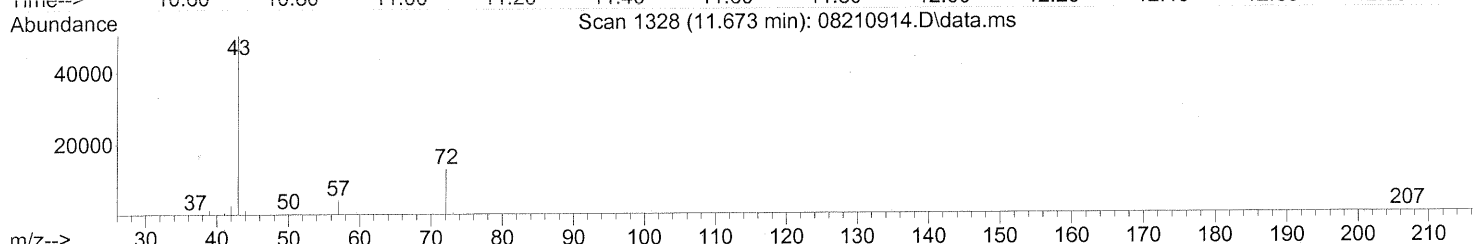
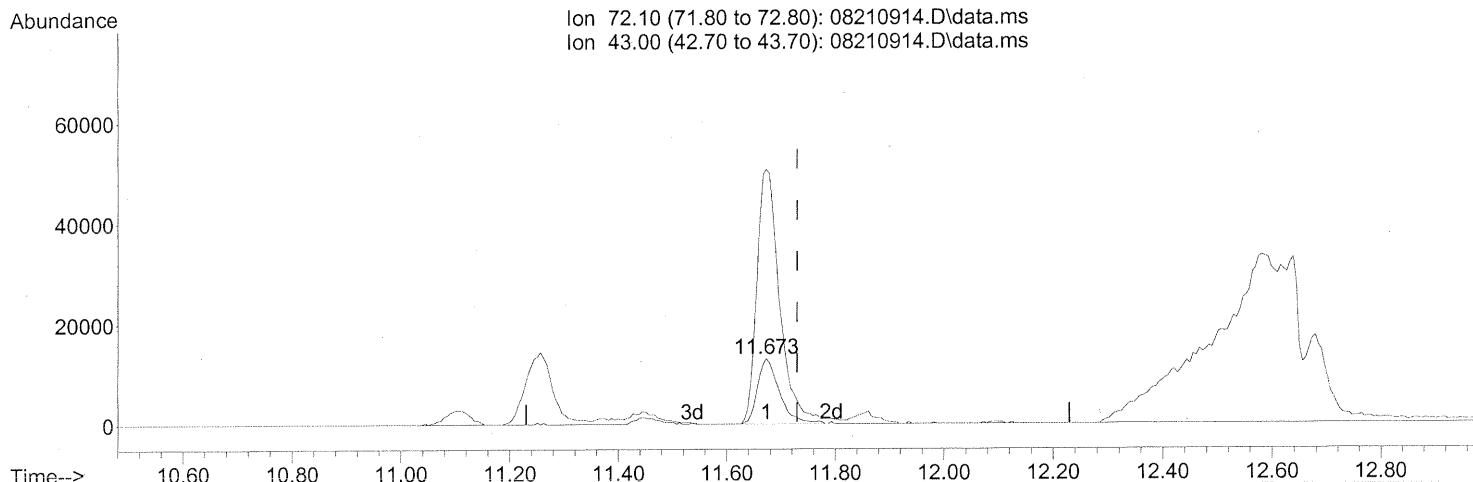
response 109196

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.673min (-0.057) 3.83ng

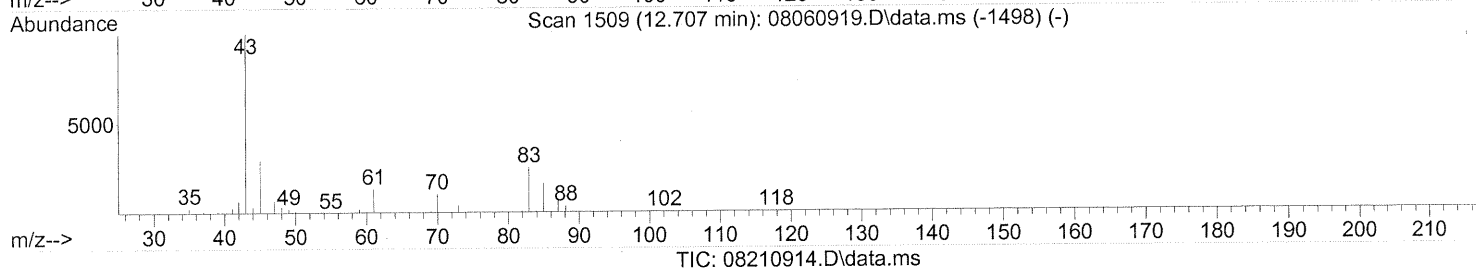
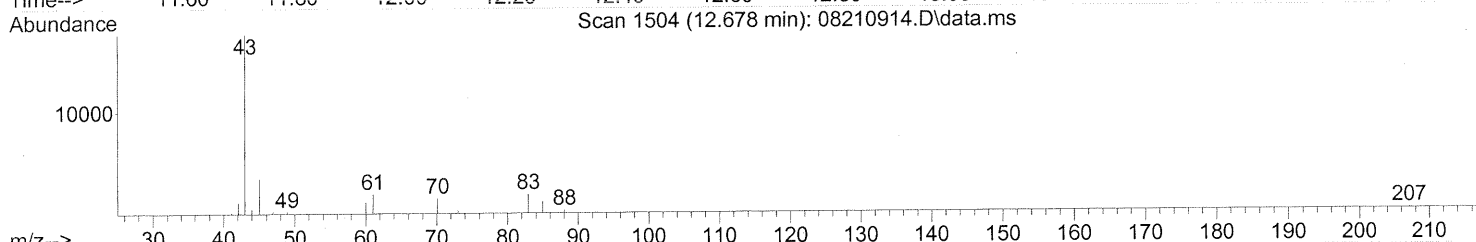
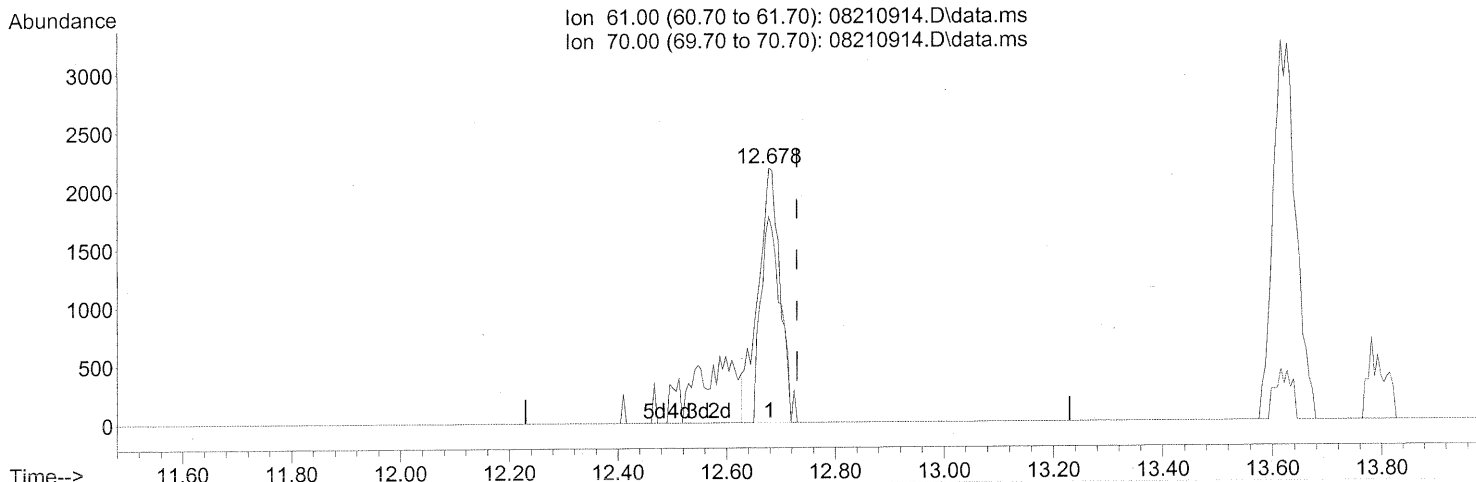
response 36194

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	412.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



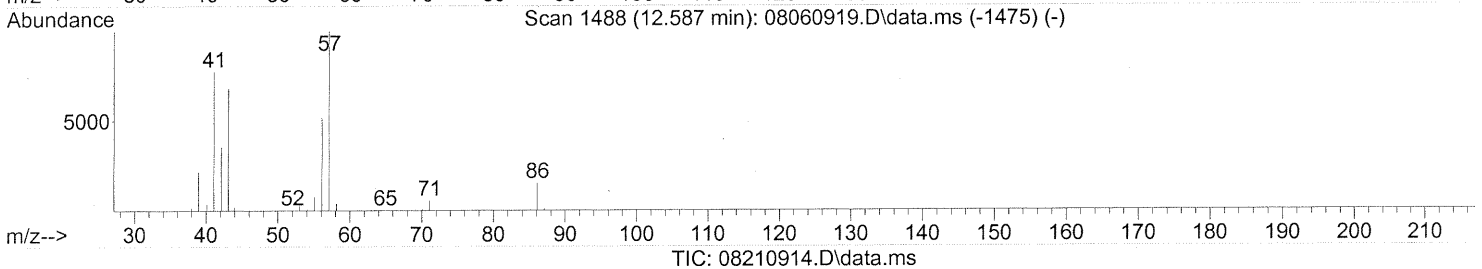
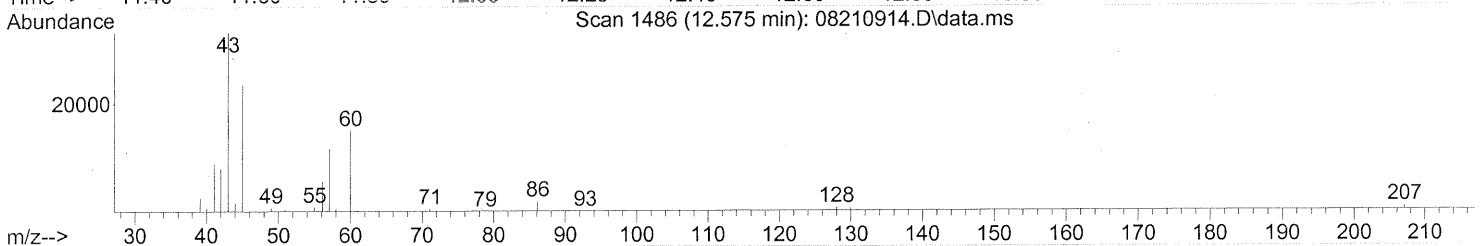
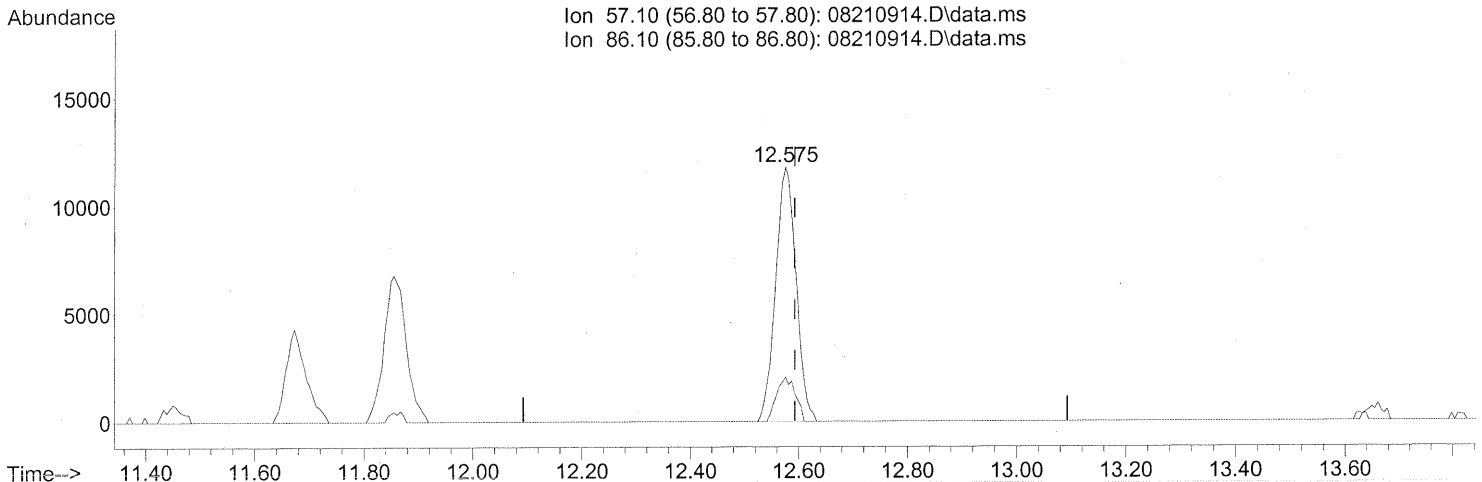
(30) Ethyl Acetate (T)
12.678min (-0.051) 1.25ng
response 6182

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	70.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



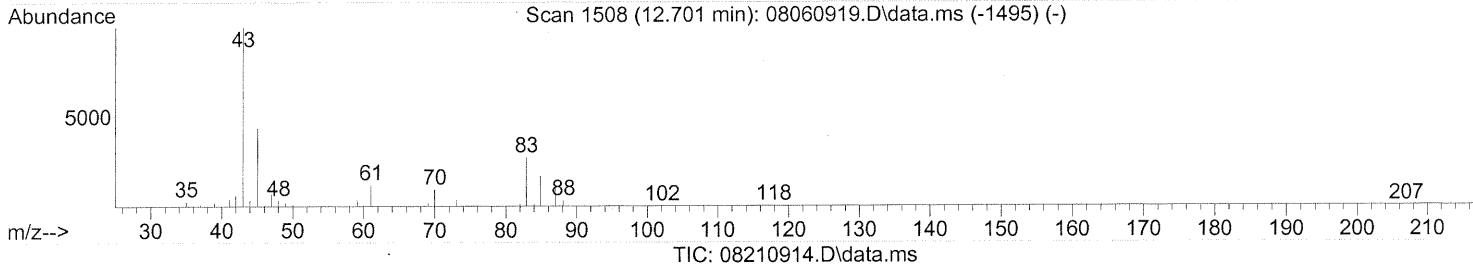
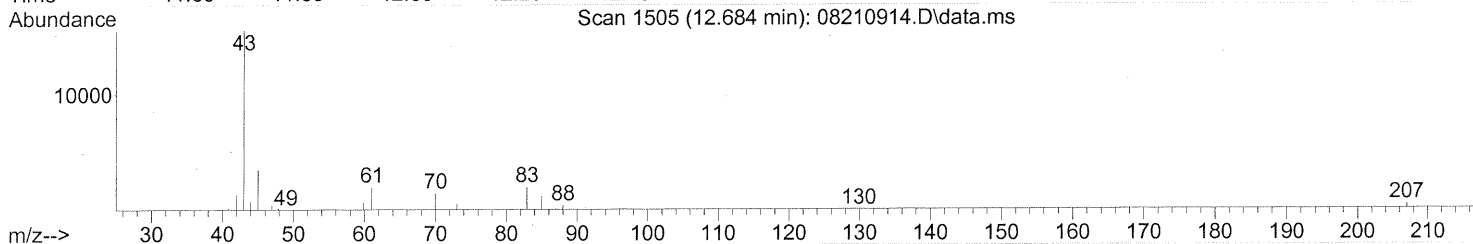
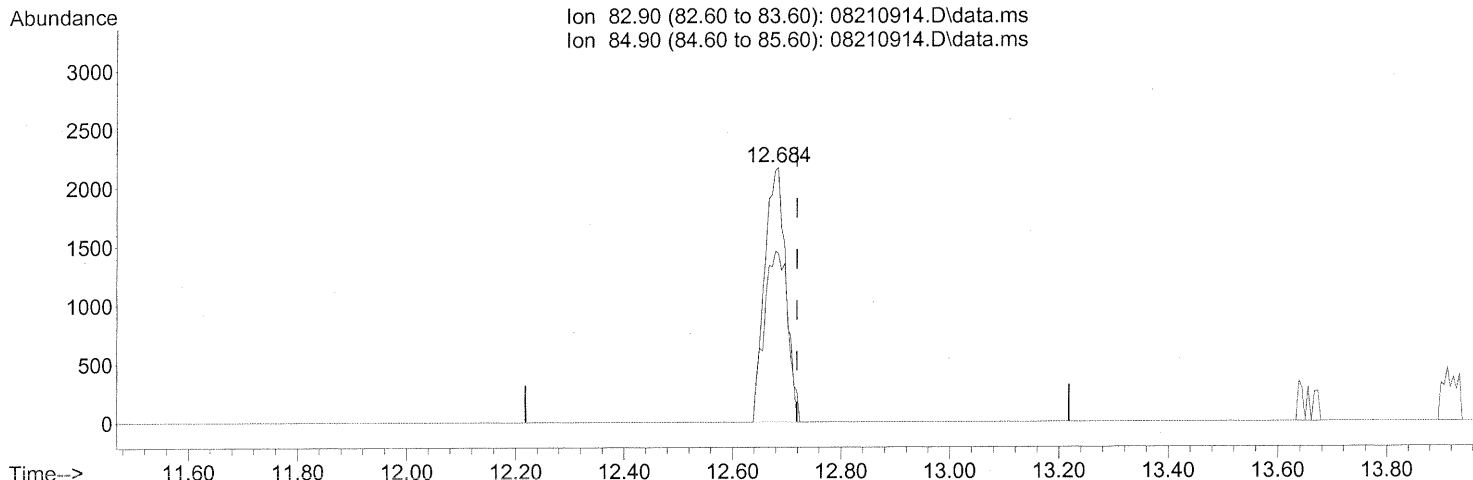
(31) n-Hexane (T)
 12.575min (-0.017) 1.22ng
 response 30665

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



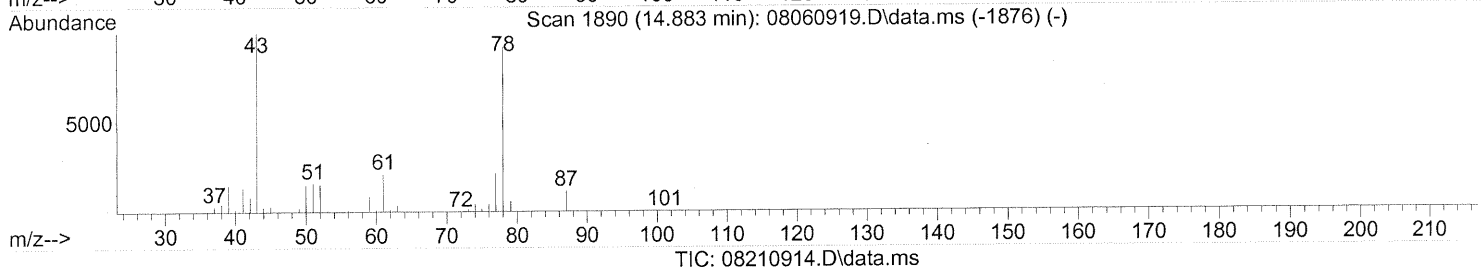
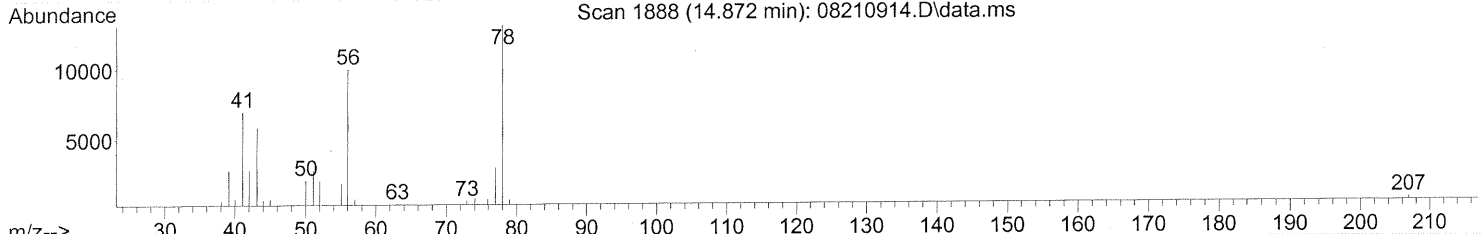
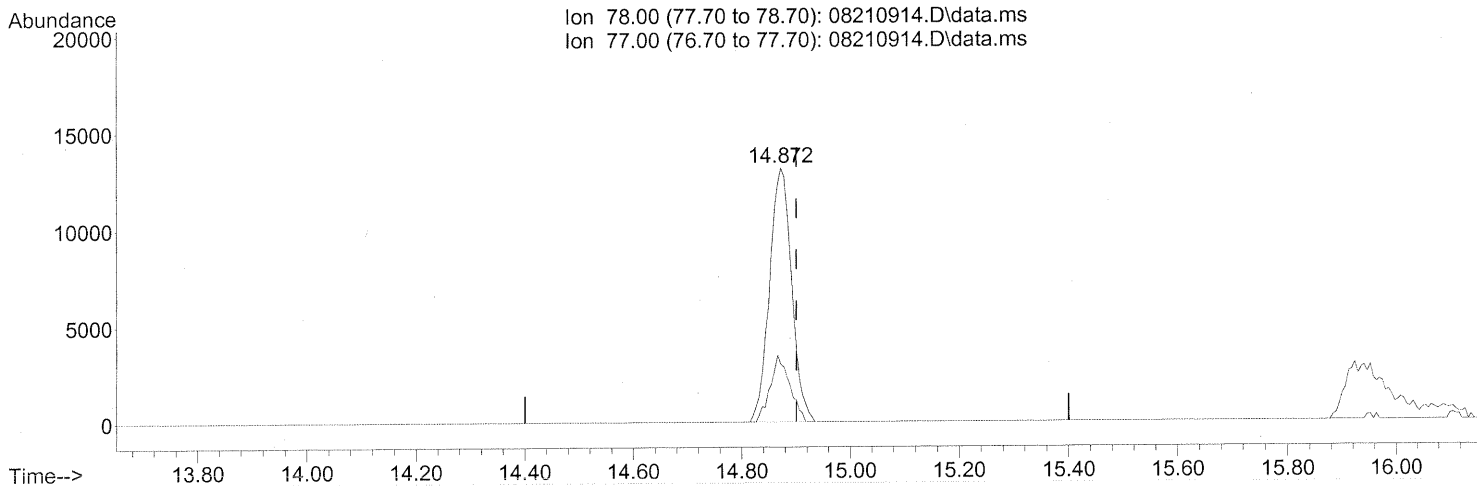
(32) Chloroform (T)
 12.684min (-0.034) 0.26ng
 response 5846

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	73.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.028) 0.66ng

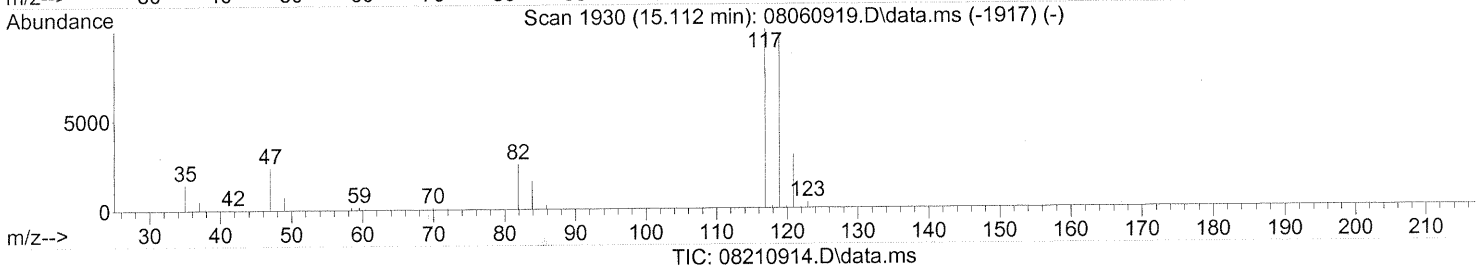
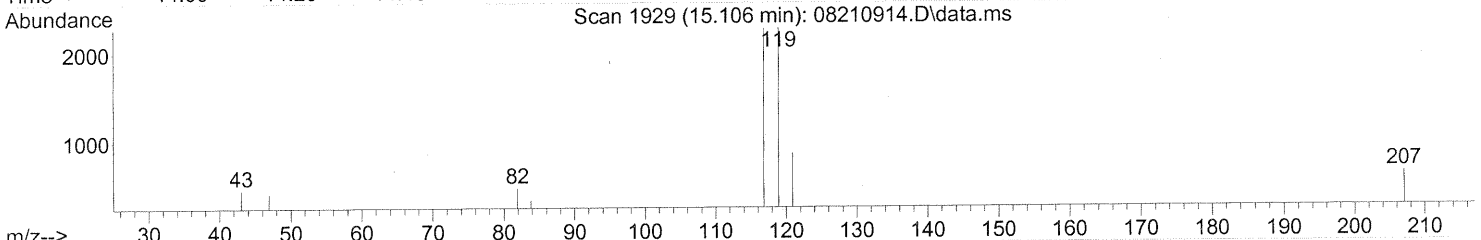
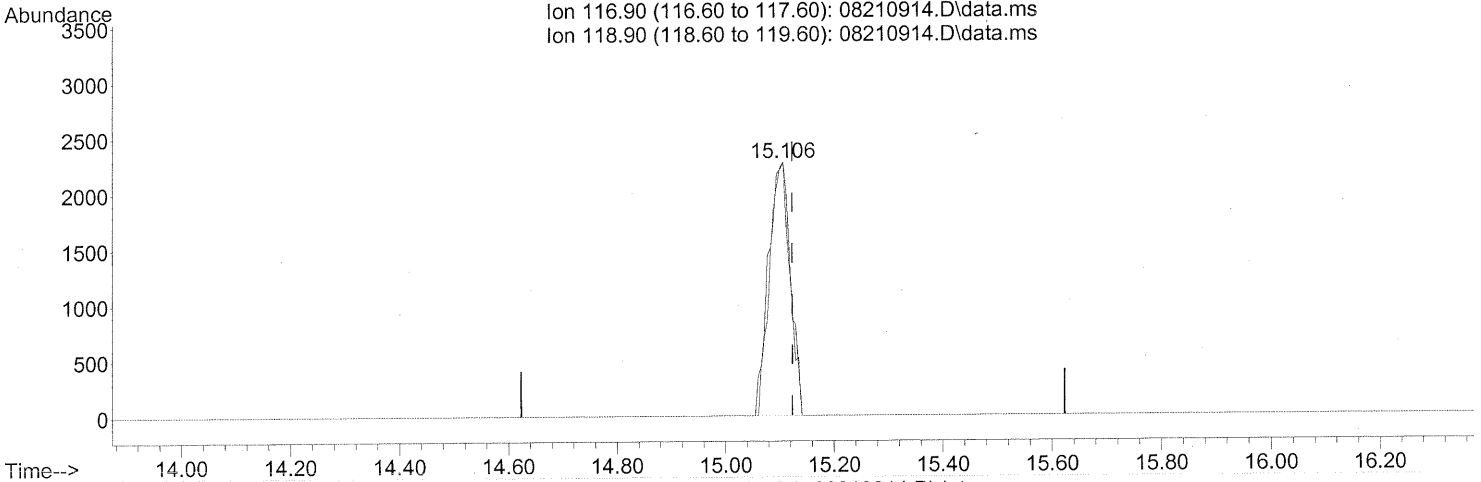
response 36969

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.35ng

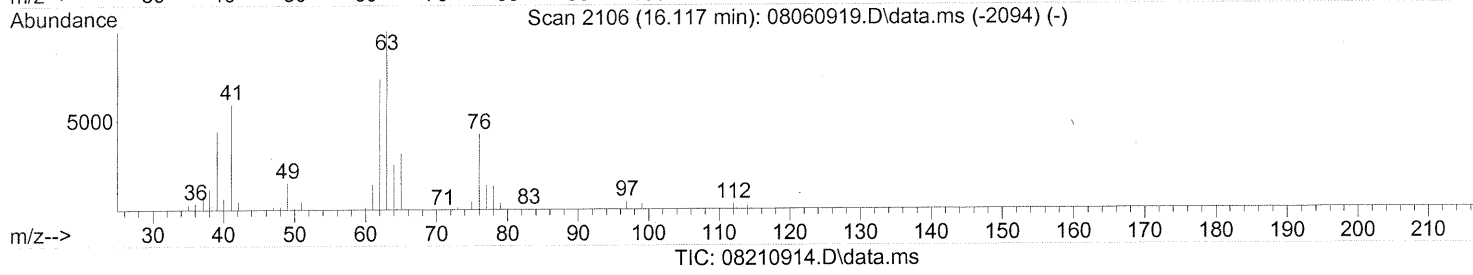
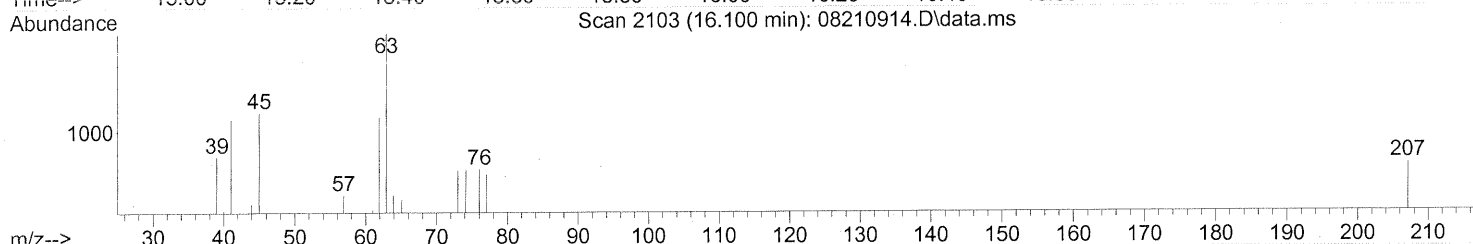
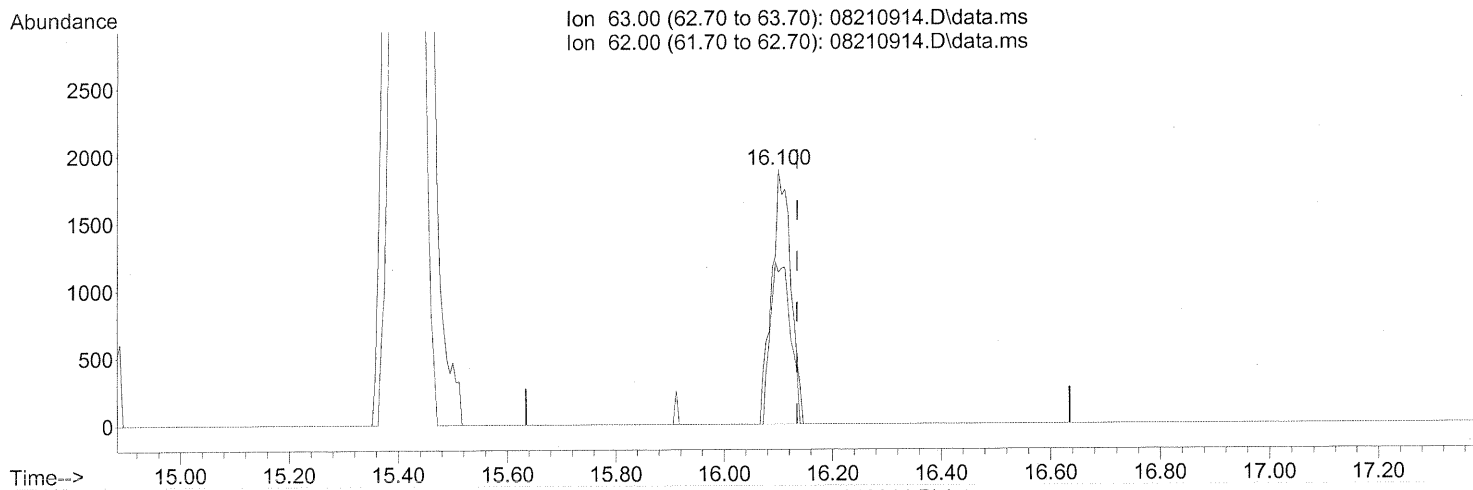
response 6352

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	91.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.100min (-0.034) 0.33ng

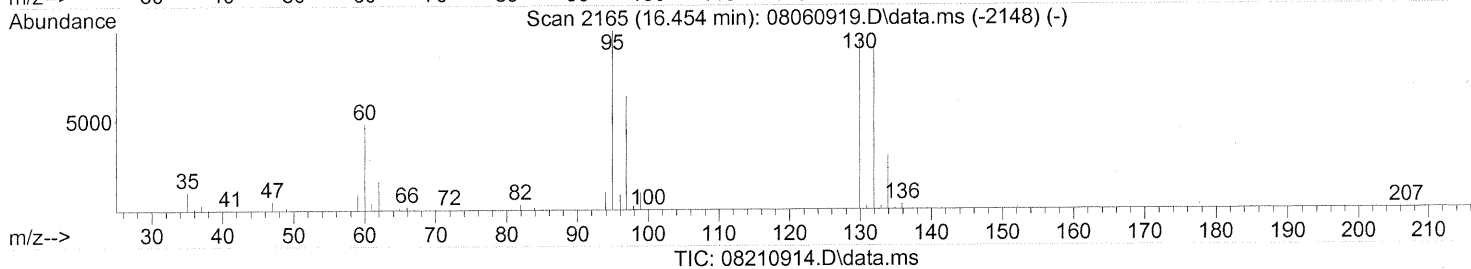
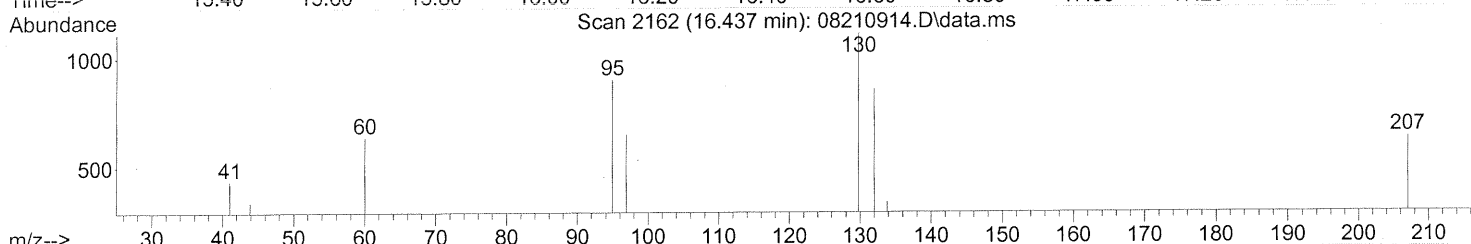
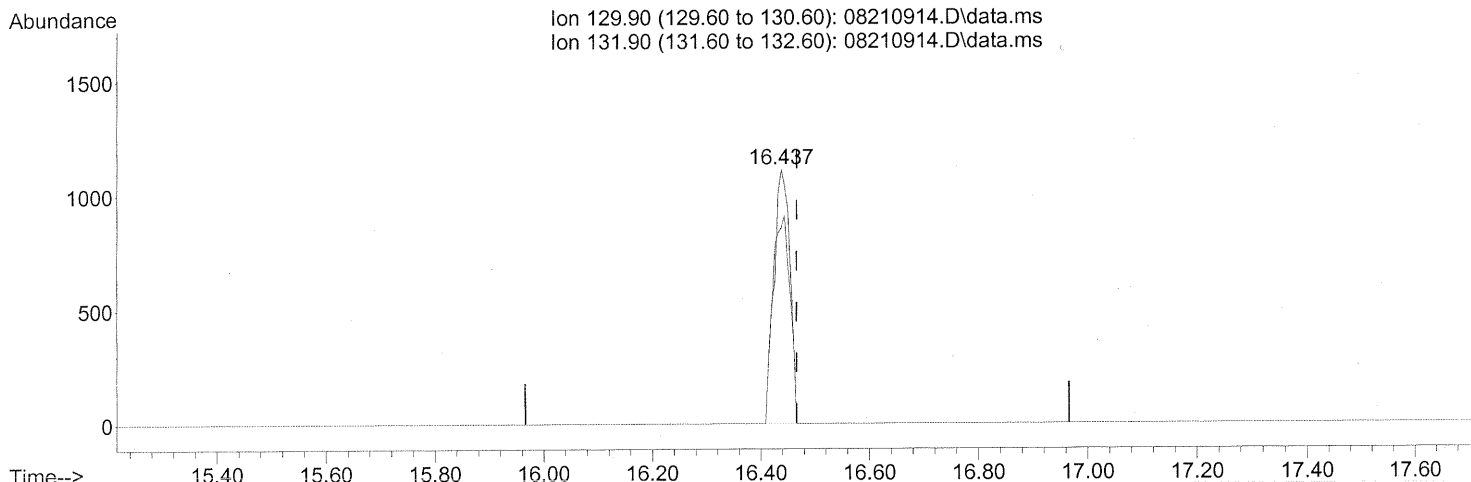
response 4637

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	66.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(47) Trichloroethene (T)

16.437min (-0.028) 0.18ng

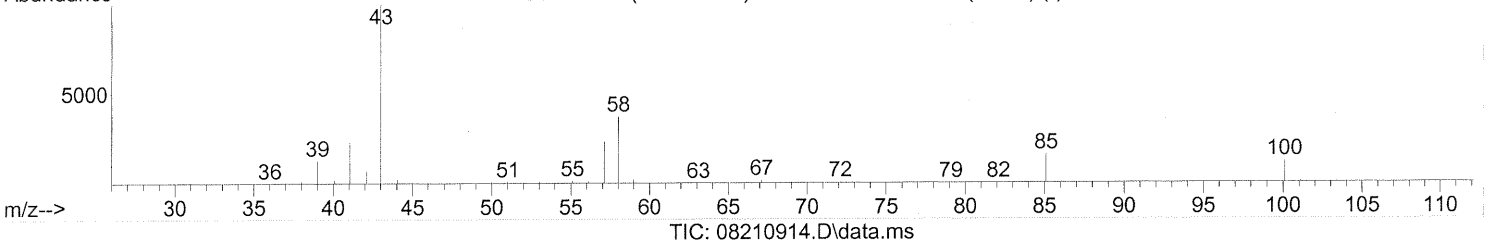
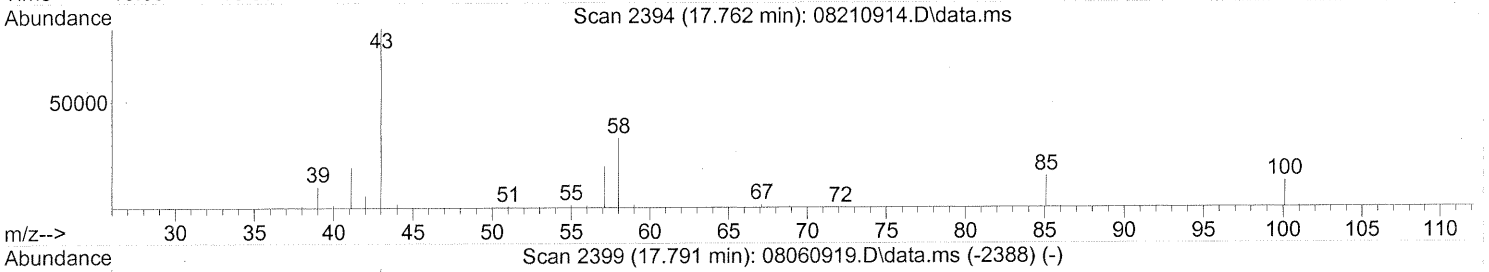
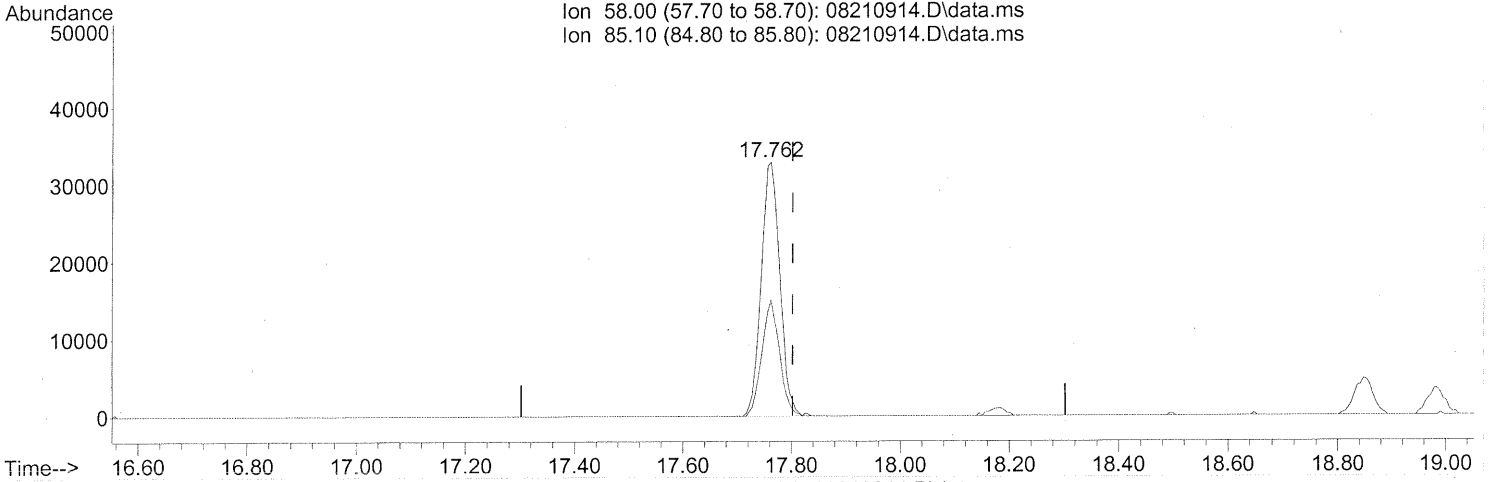
response 2278

Ion	Exp%	Act%
129.90	100	100
131.90	94.60	87.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.762min (-0.040) 5.74ng

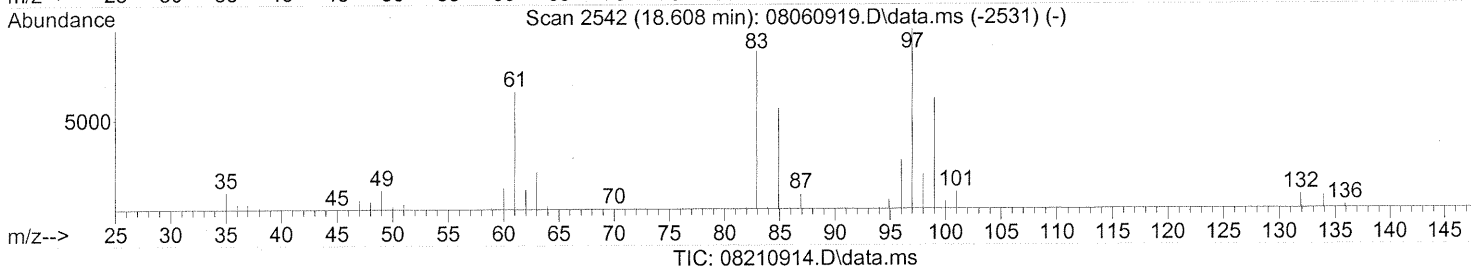
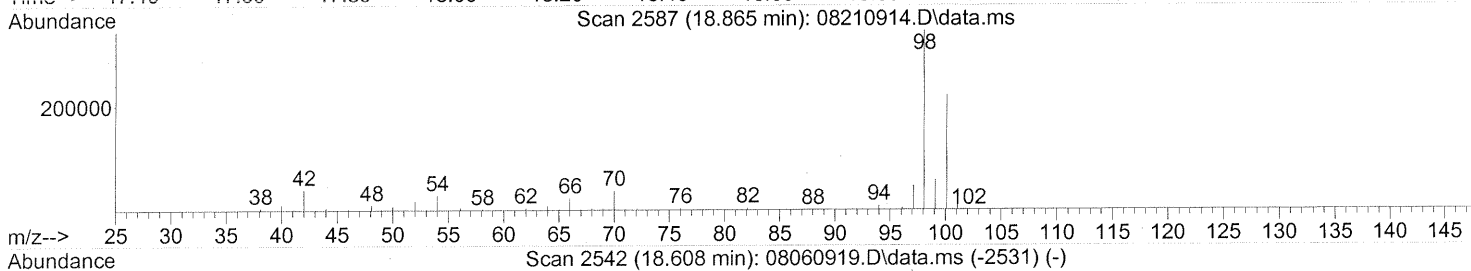
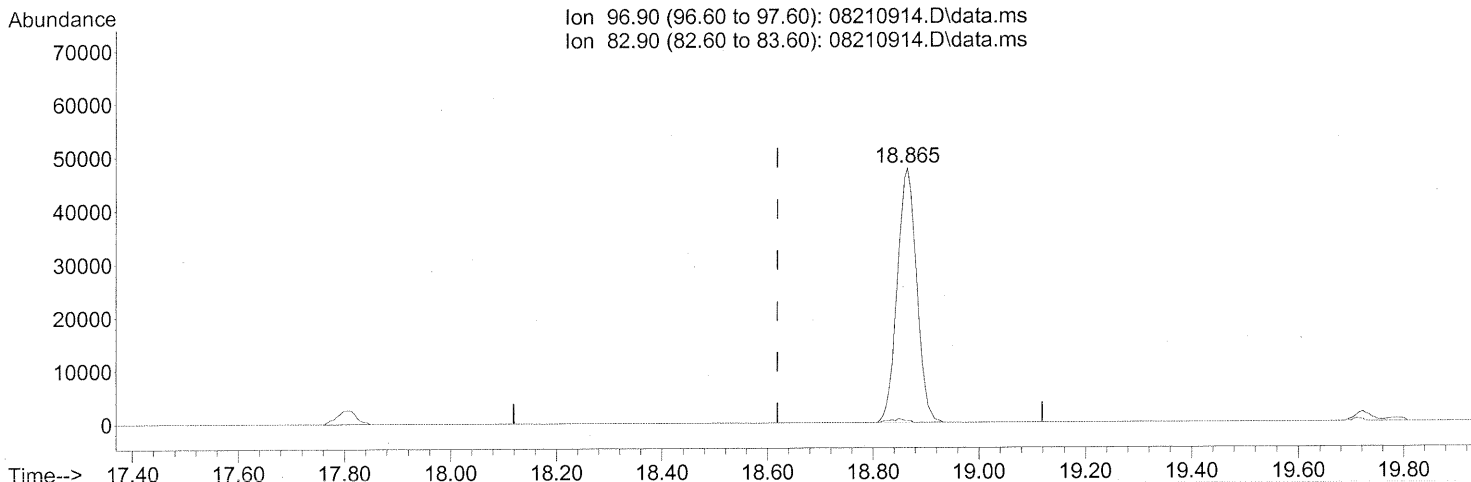
response 77888

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.82ng

response 121651

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.15#
0.00	0.00	0.00
0.00	0.00	0.00

FP

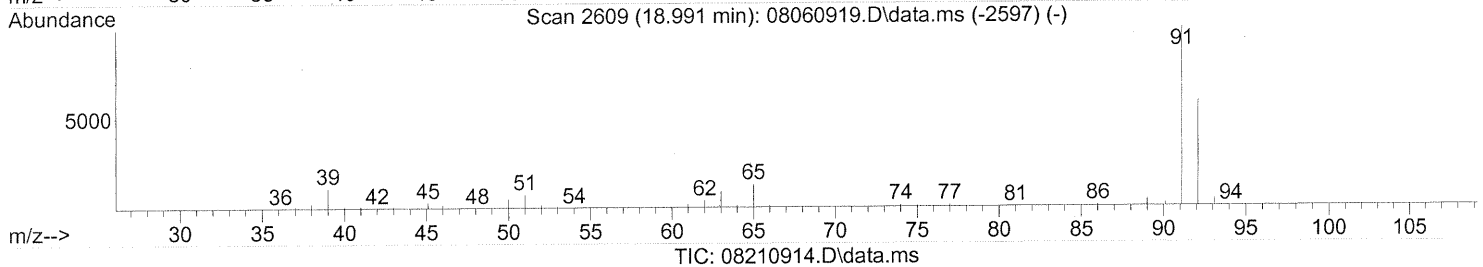
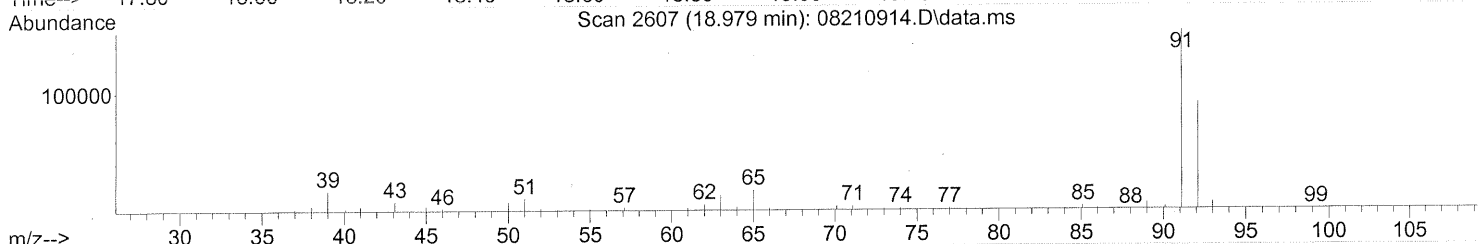
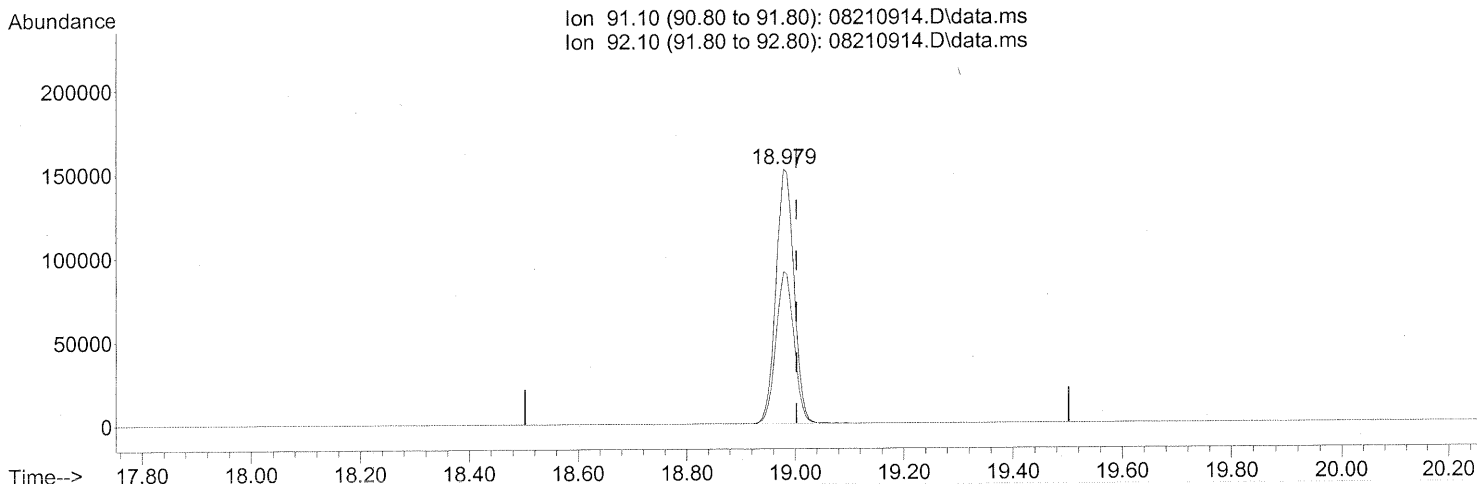
WA 8/25/09

WA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.979min (-0.023) 6.65ng

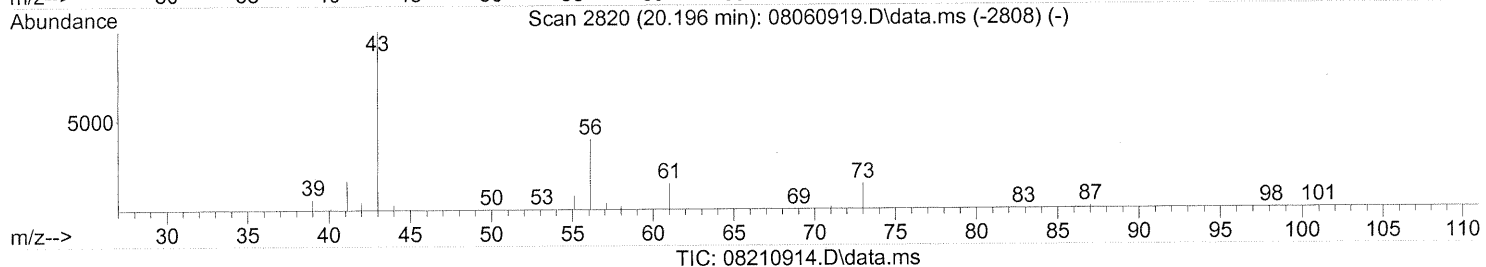
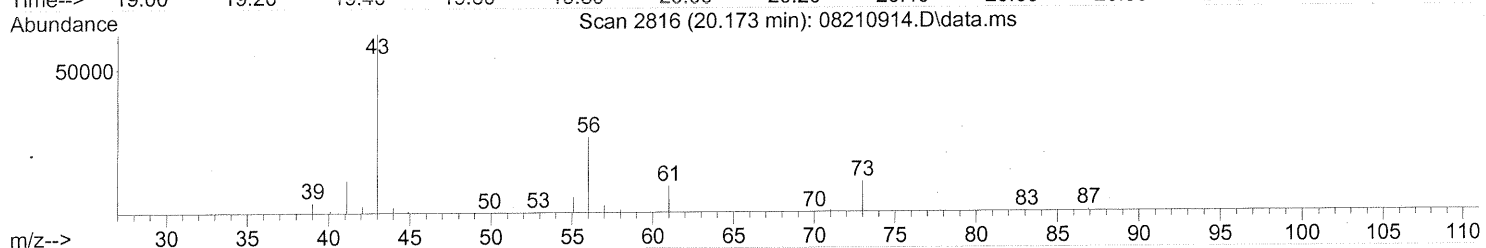
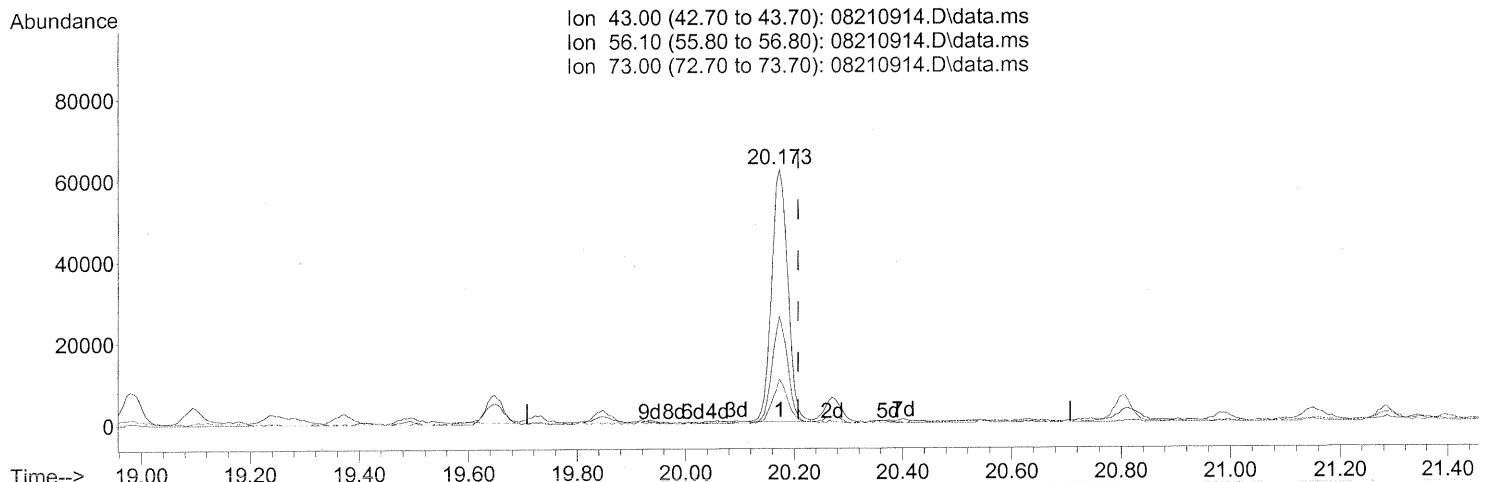
response 348709

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.173min (-0.034) 3.14ng

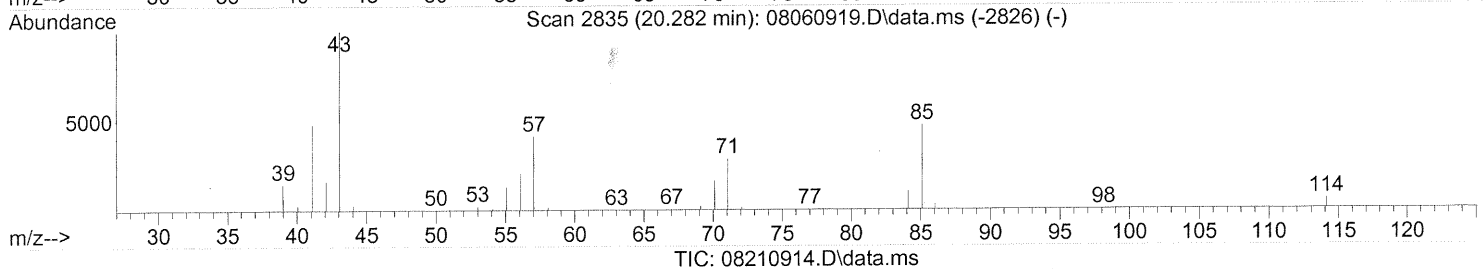
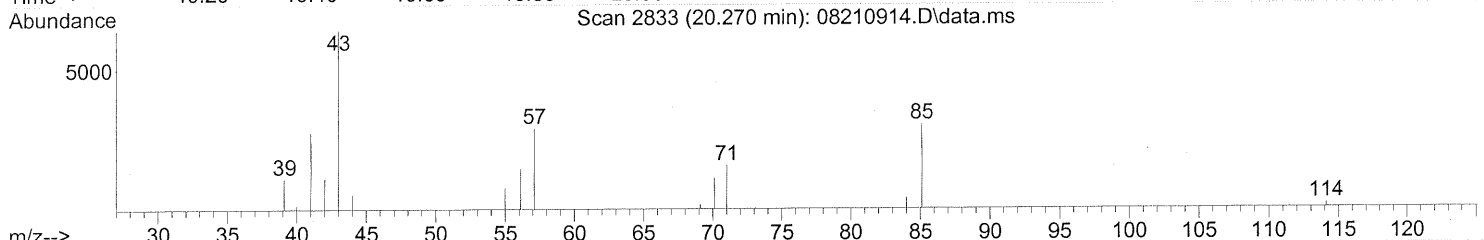
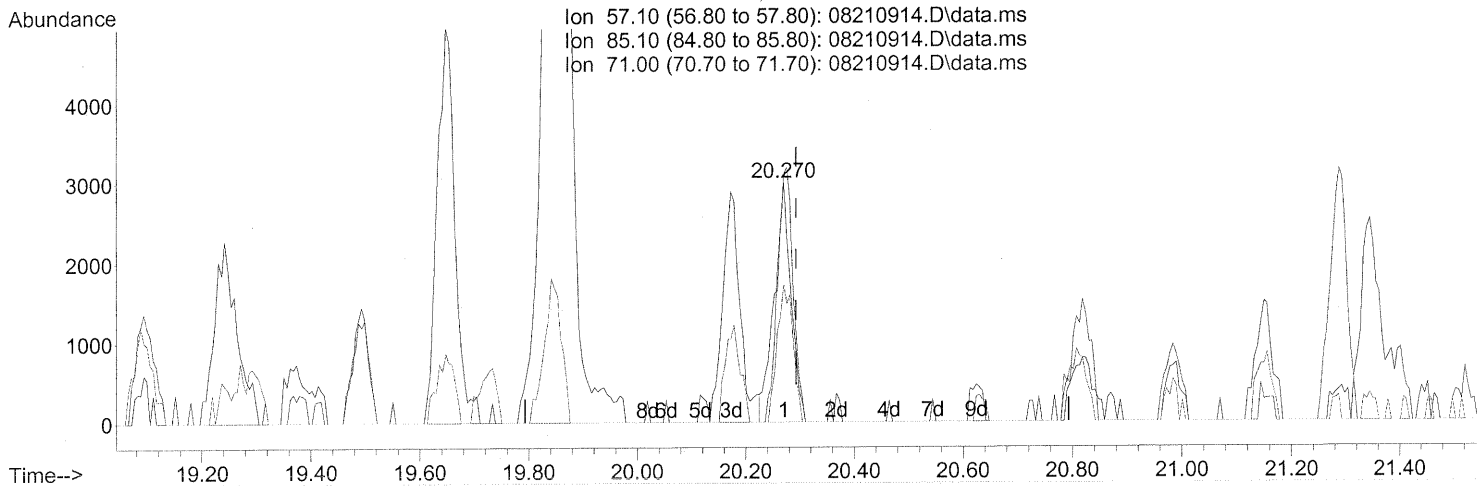
response 129091

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.00
73.00	14.80	16.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 0.50ng

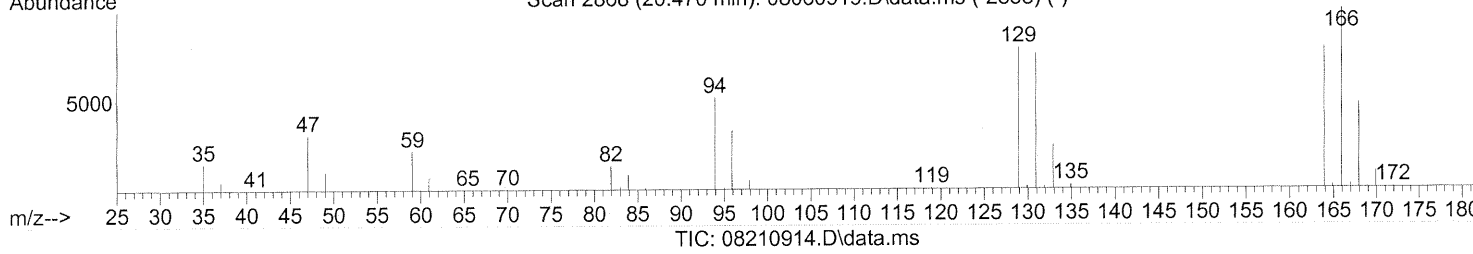
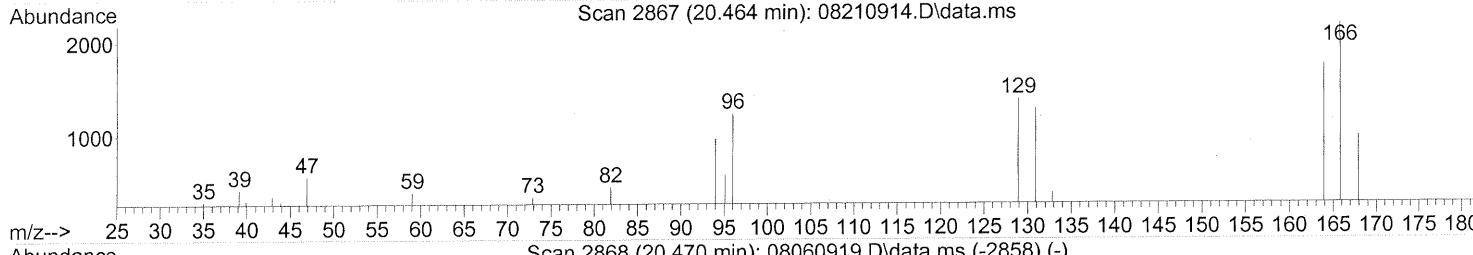
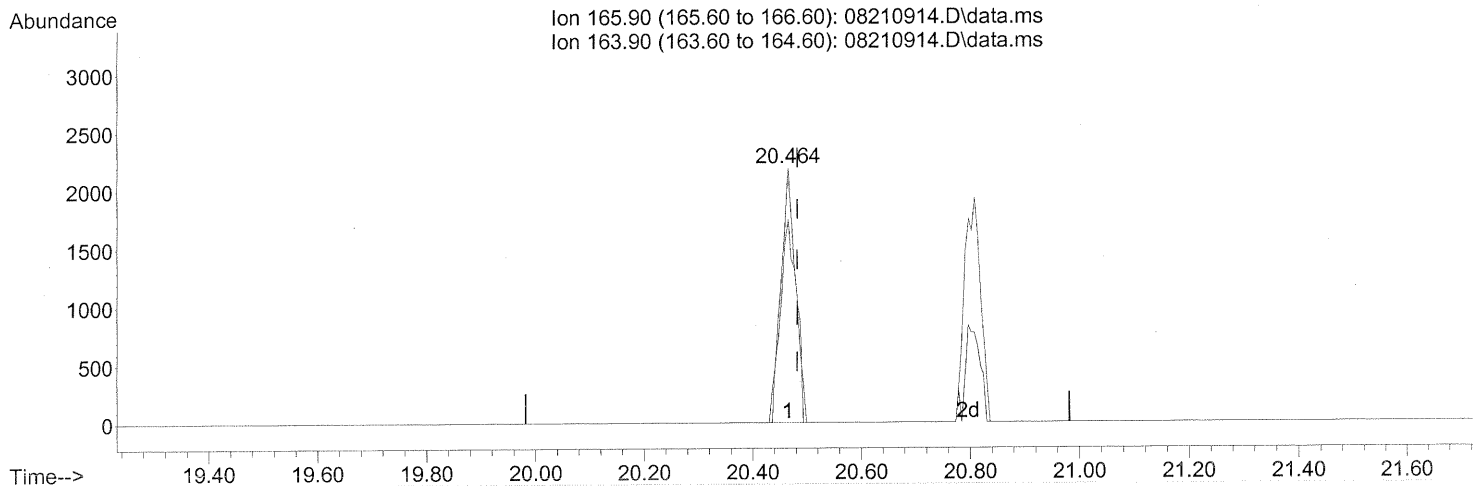
response 6354

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	101.90
71.00	68.10	54.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 0.34ng

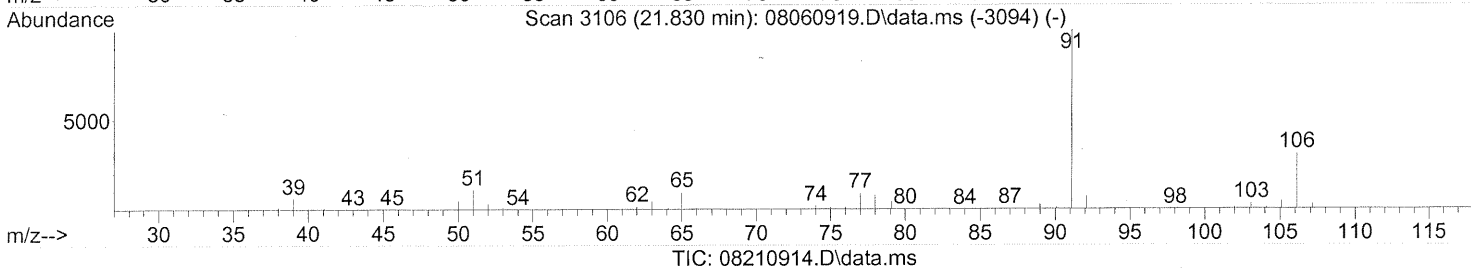
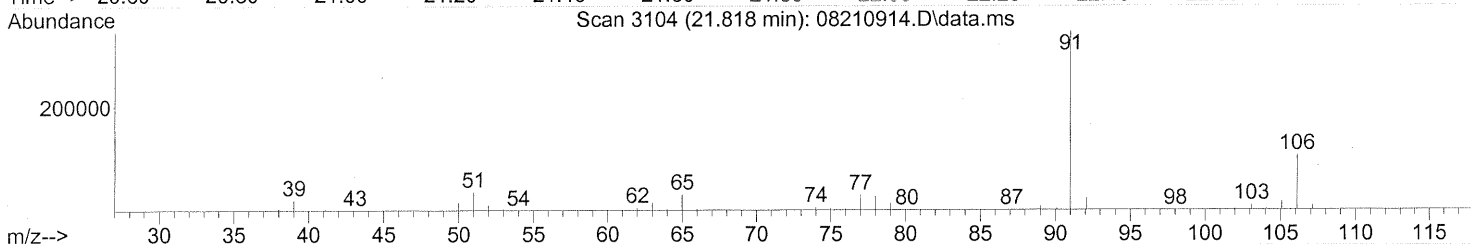
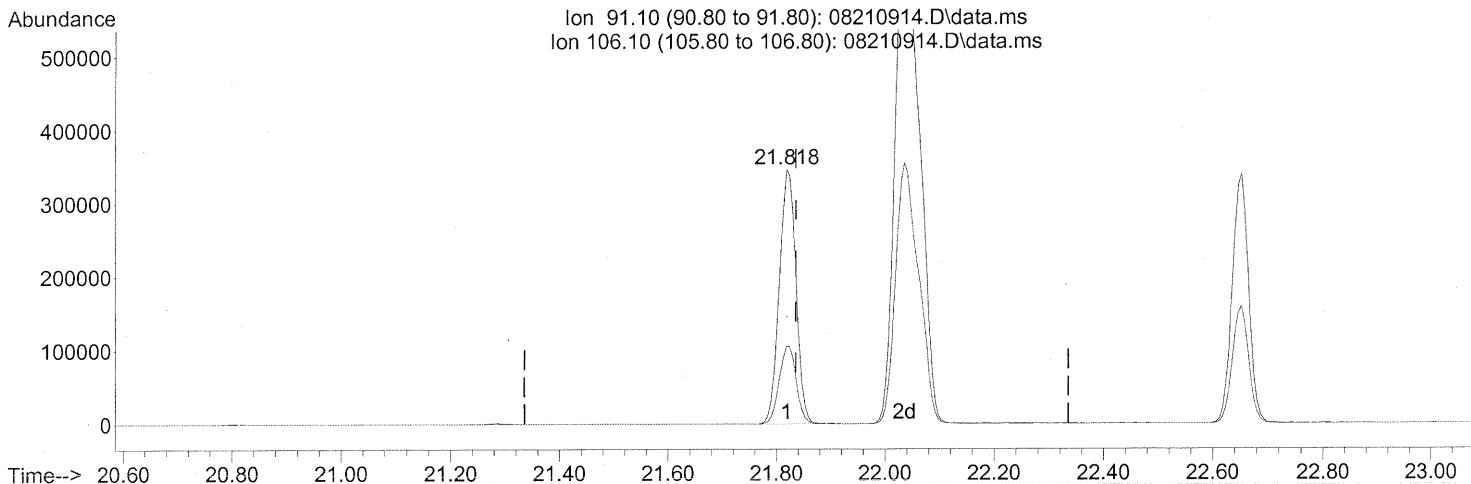
response 4073

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	86.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



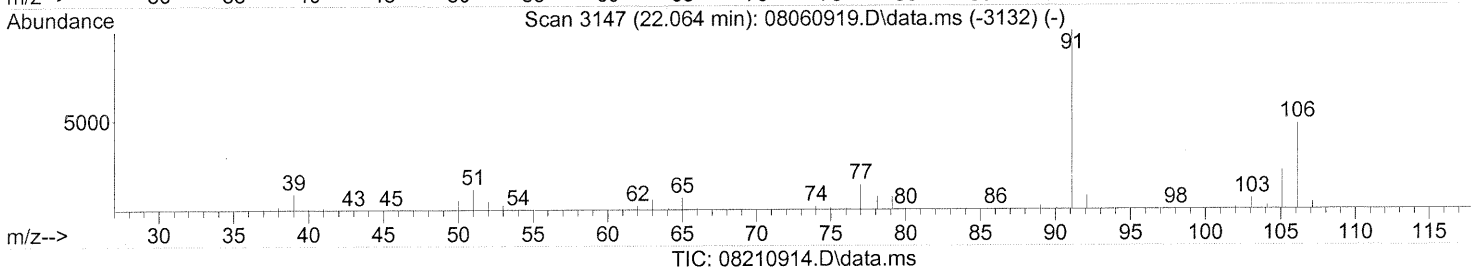
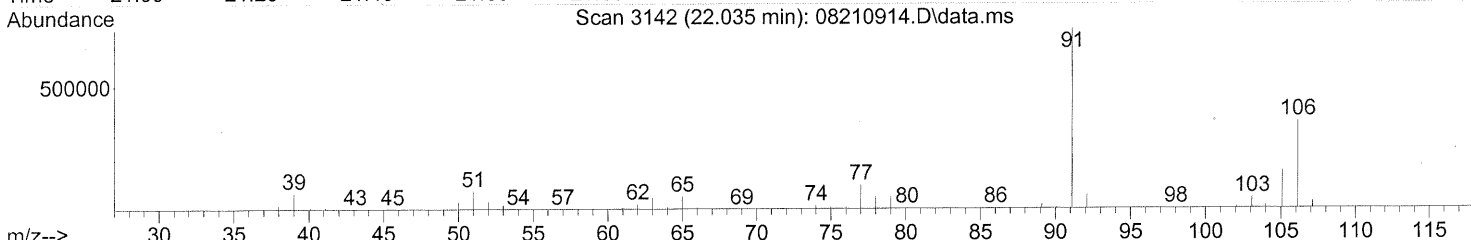
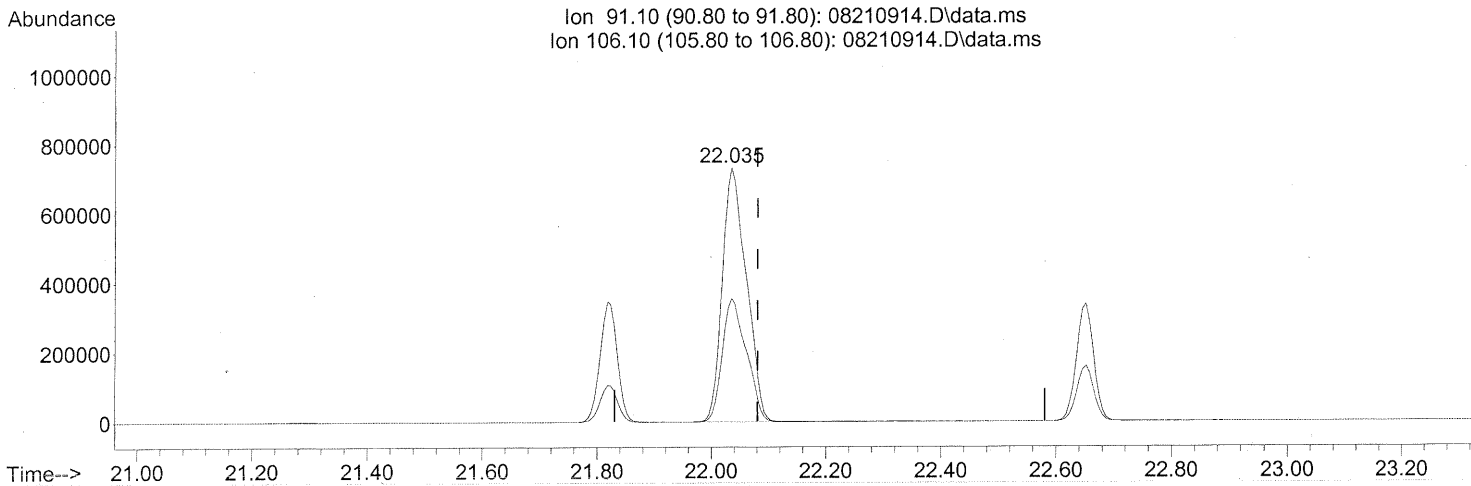
(66) Ethylbenzene (T)
 21.818min (-0.017) 12.15ng
 response 727906

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	31.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 44.17ng

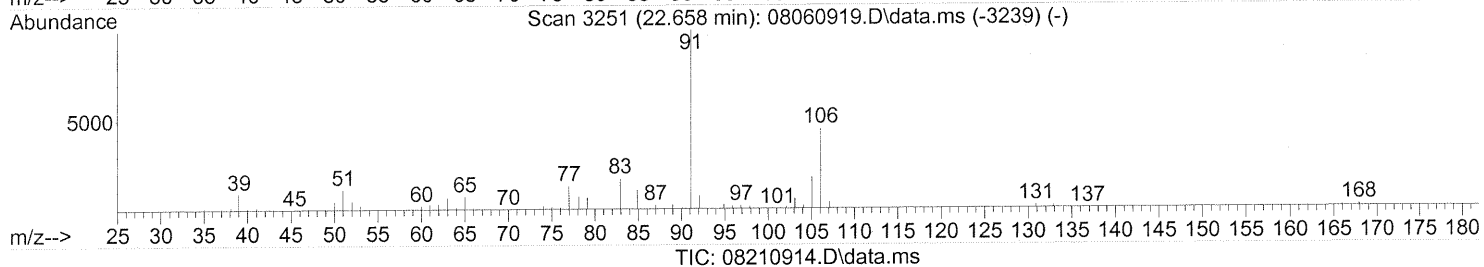
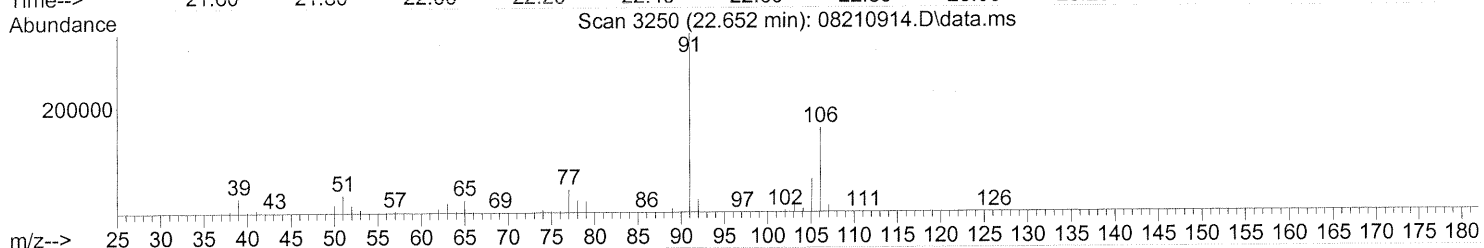
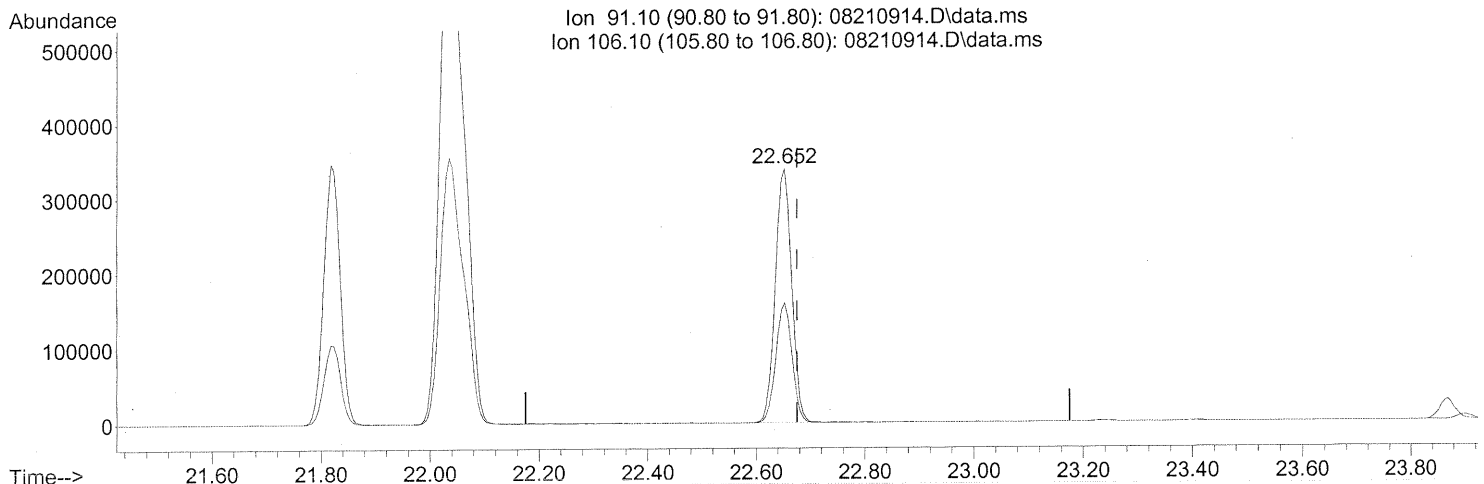
response 2141224

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 14.46ng

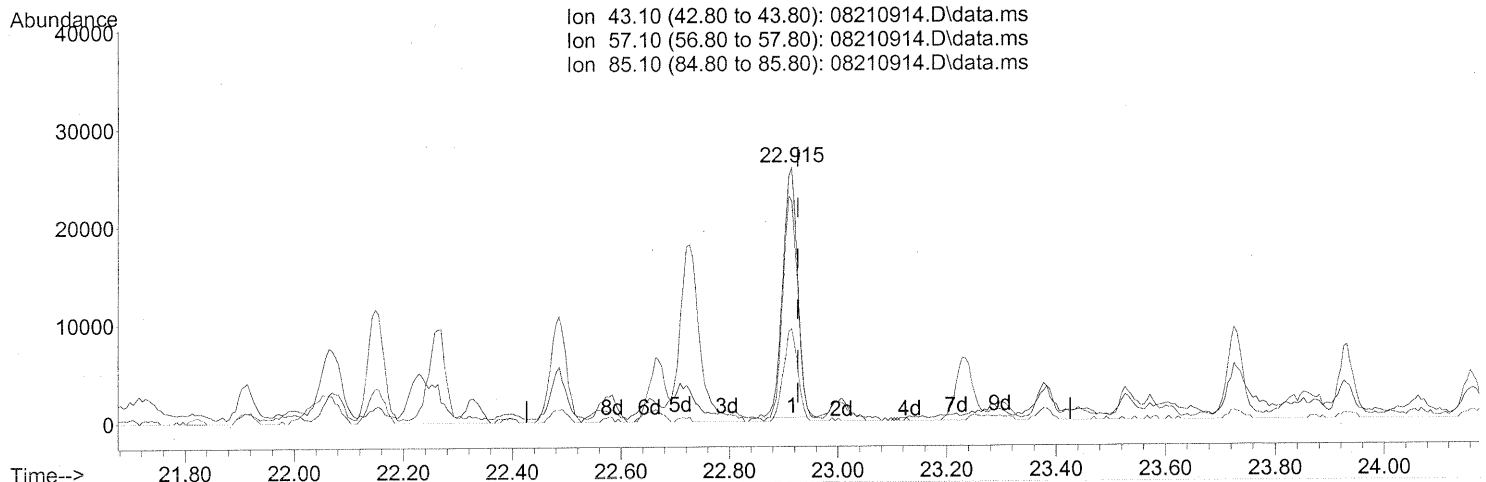
response 702973

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	46.64
0.00	0.00	0.00
0.00	0.00	0.00

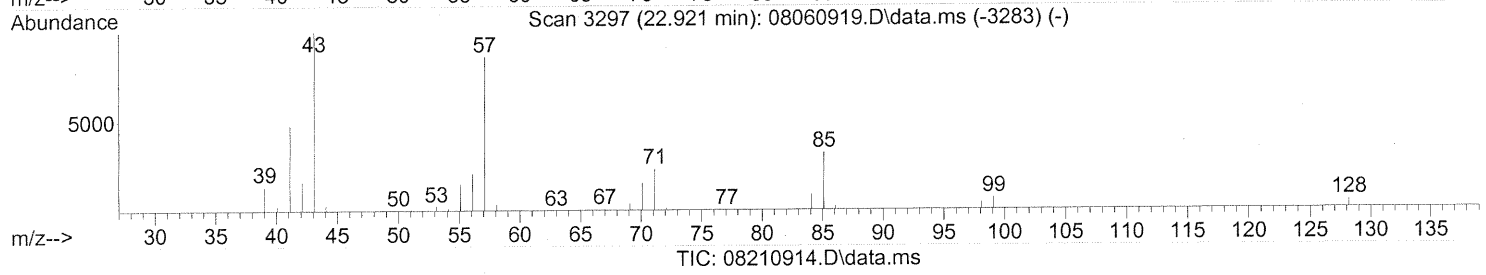
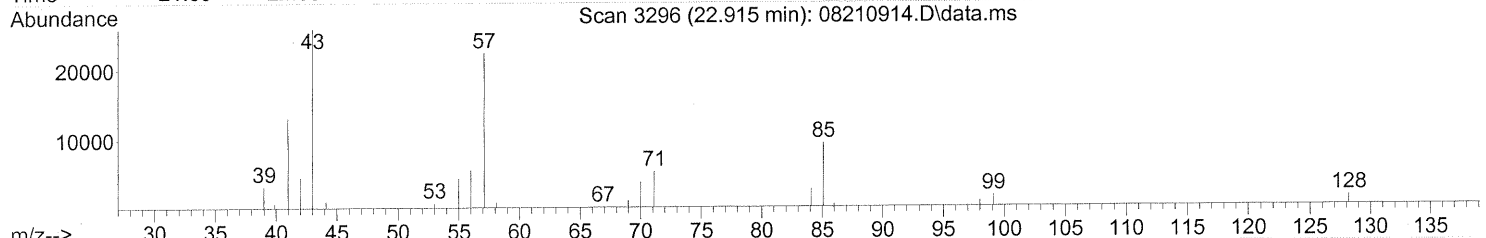
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 43.10 (42.80 to 43.80): 08210914.D\data.ms
 Ion 57.10 (56.80 to 57.80): 08210914.D\data.ms
 Ion 85.10 (84.80 to 85.80): 08210914.D\data.ms



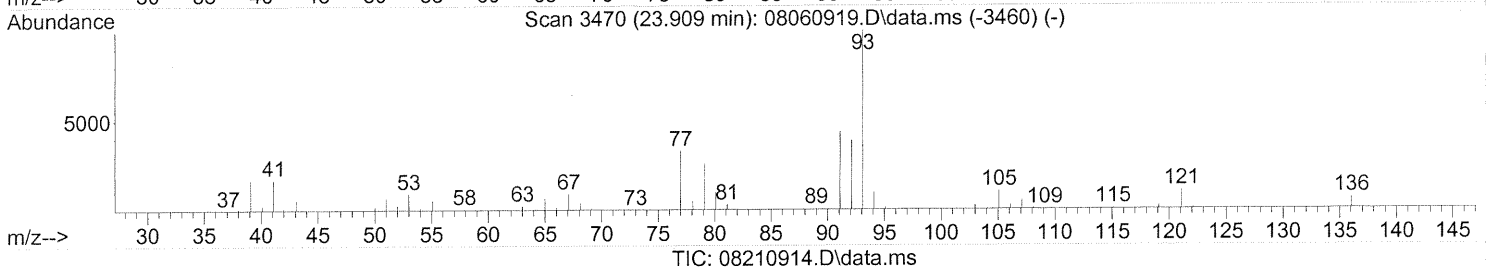
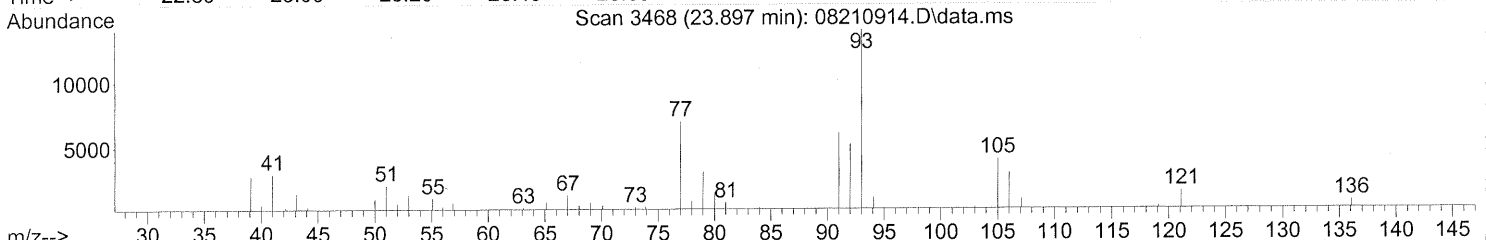
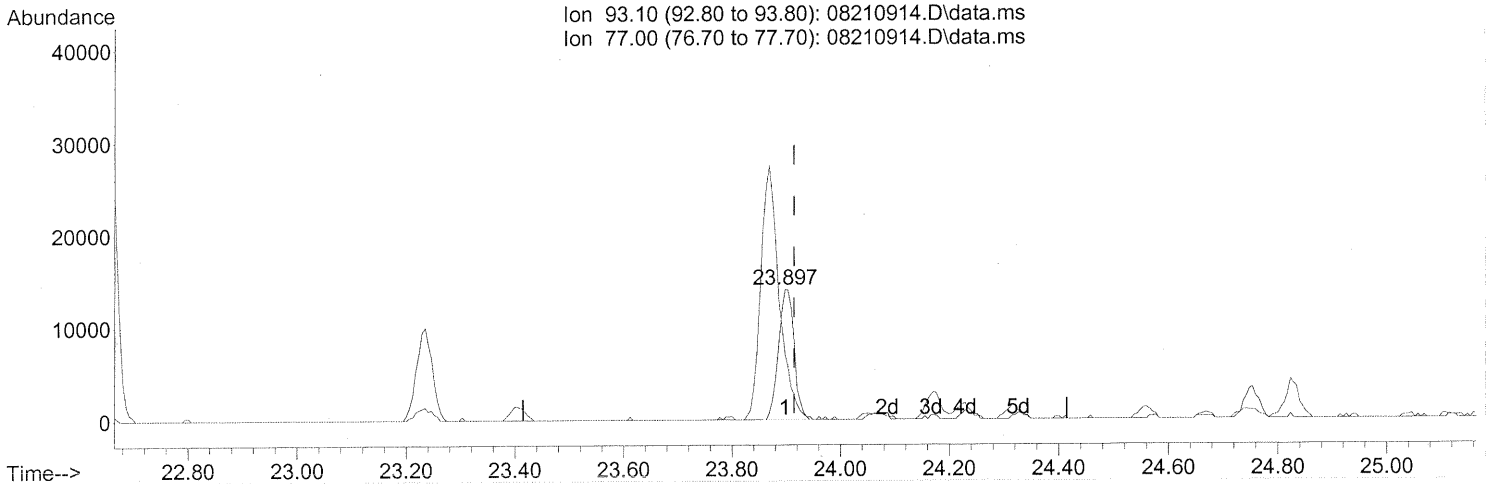
(71) n-Nonane (T)
 22.915min (-0.011) 1.51ng
 response 48837

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	91.40
85.10	30.40	35.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



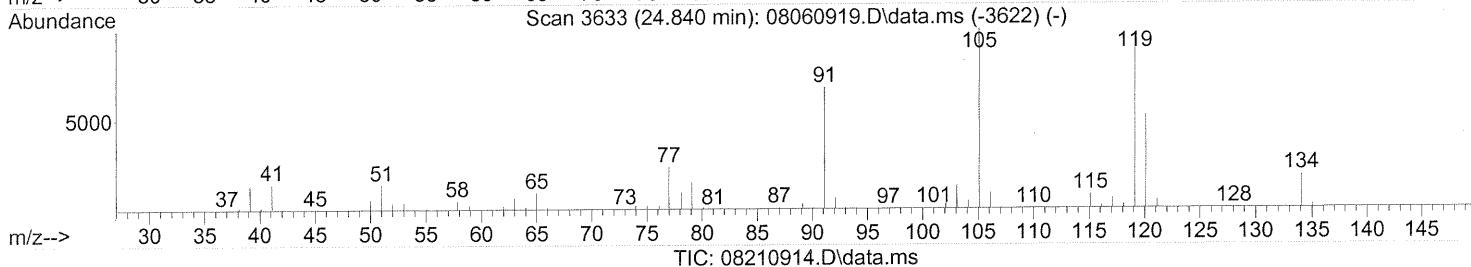
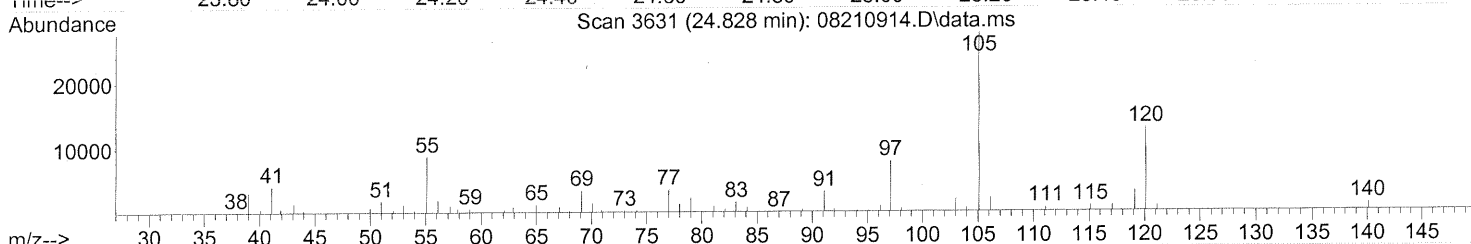
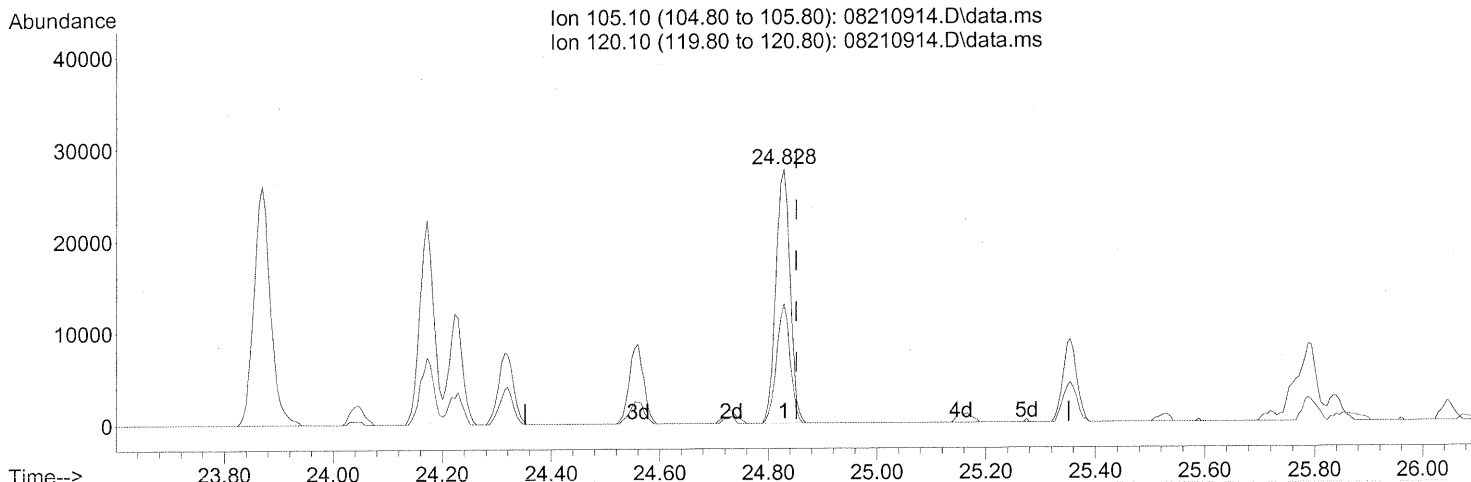
(75) alpha-Pinene (T)
 23.897min (-0.017) 0.88ng
 response 27717

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 1.03ng

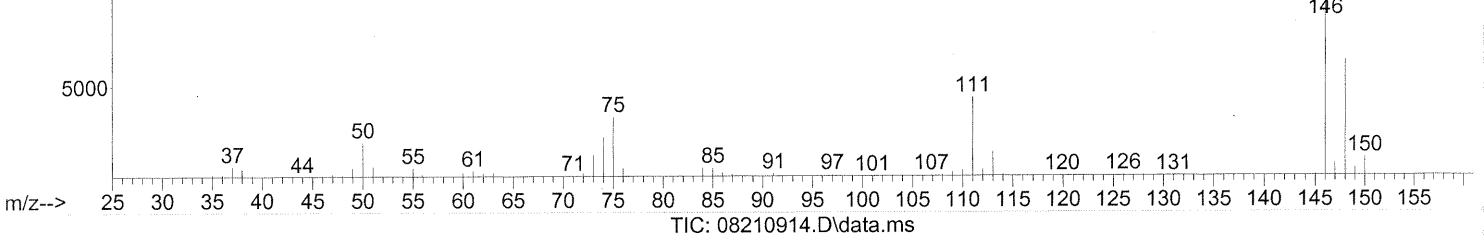
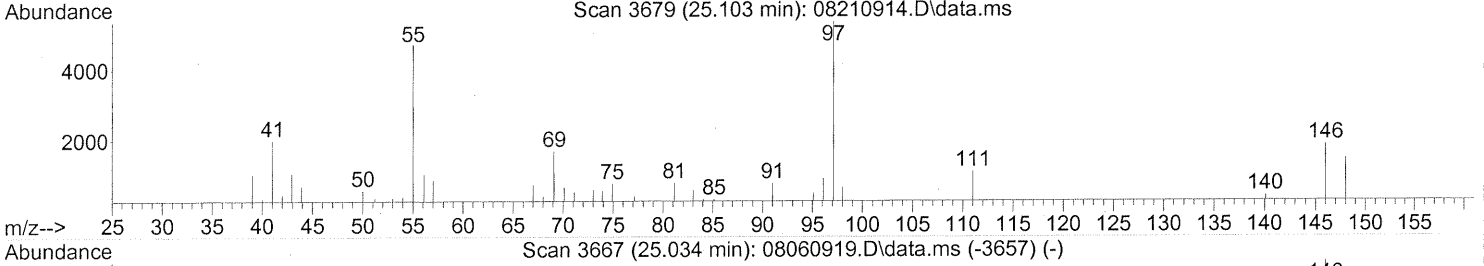
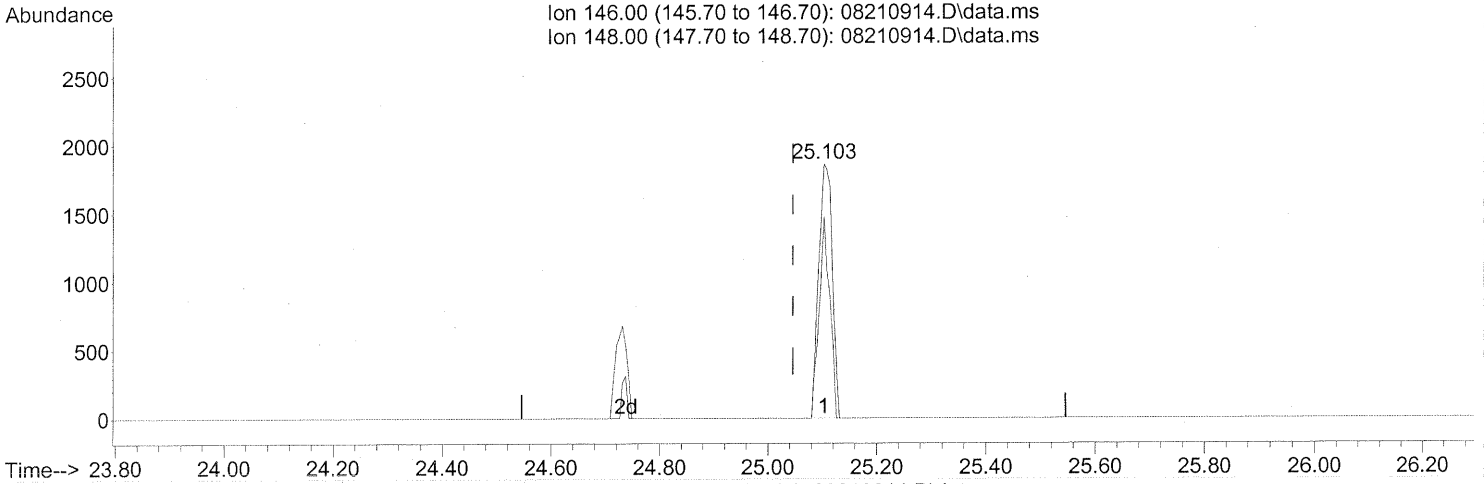
response 50474

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210914.D
Acq On : 21 Aug 2009 17:21
Operator : WA
Sample : P0902805-007 (1000mL)
Misc : Environmental Health 101401
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.13ng

response 3255

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	62.21
0.00	0.00	0.00
0.00	0.00	0.00

FP

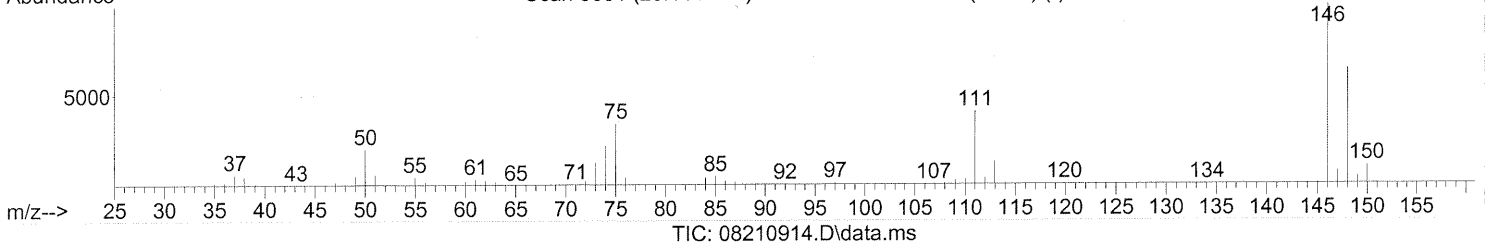
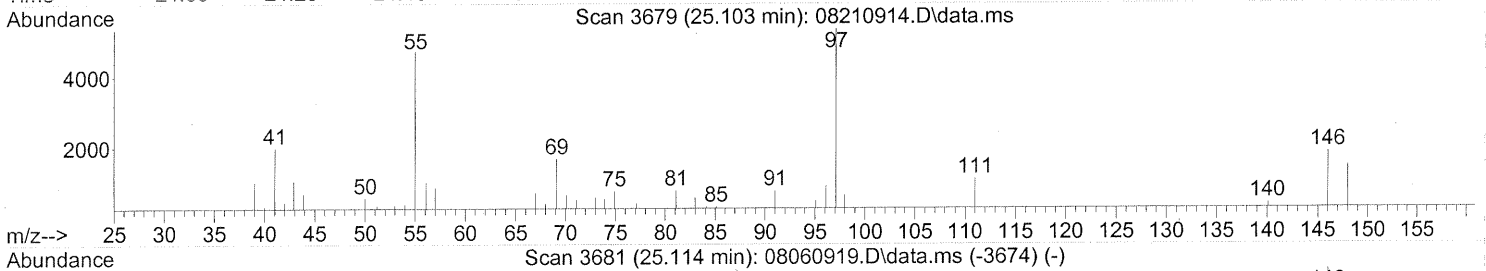
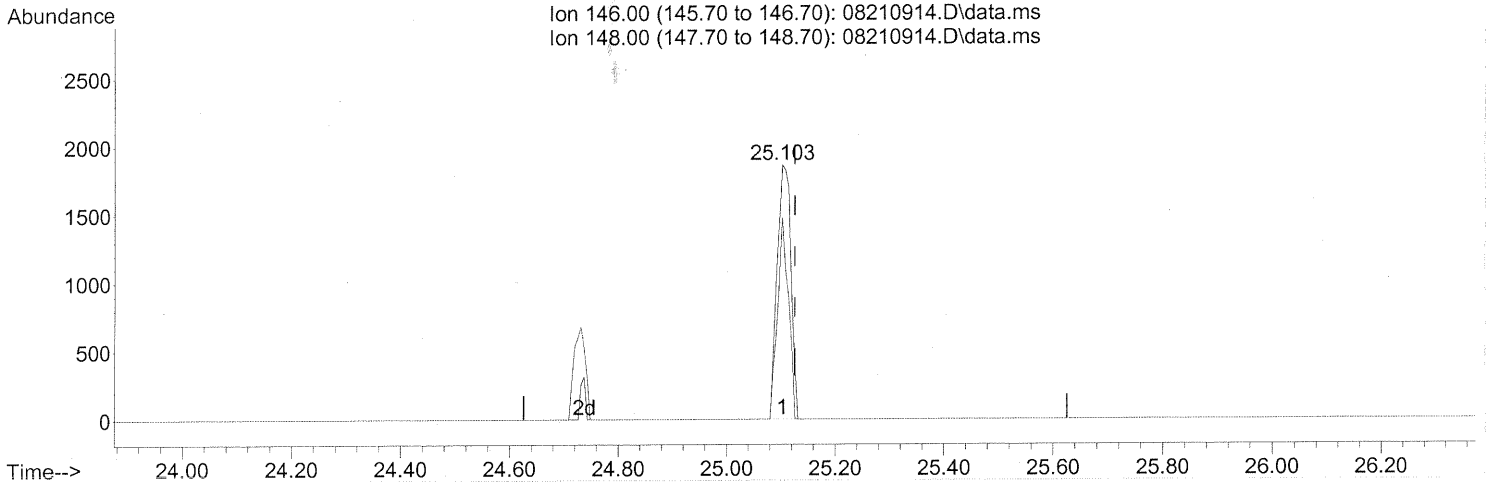
101 8/24/09

— R 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.12ng

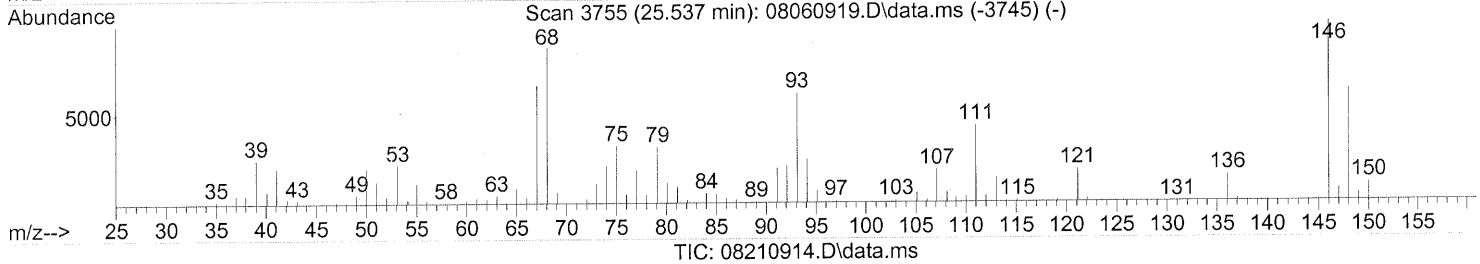
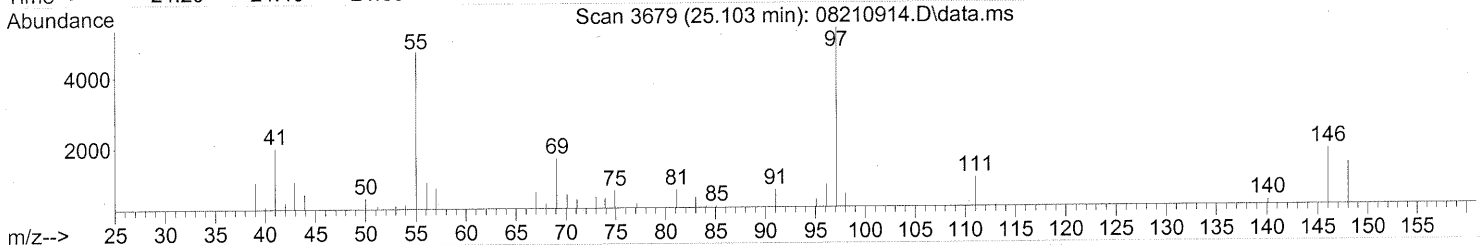
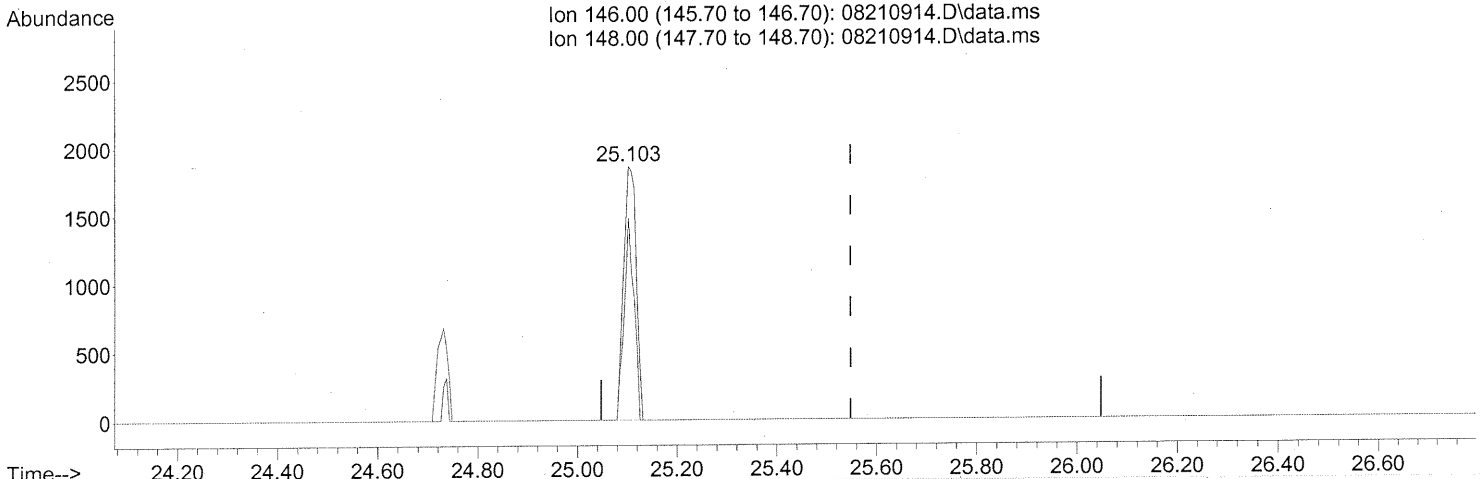
response 3255

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	62.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.103min (-0.445) 0.14ng

response 3255

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	62.21
0.00	0.00	0.00
0.00	0.00	0.00

FP

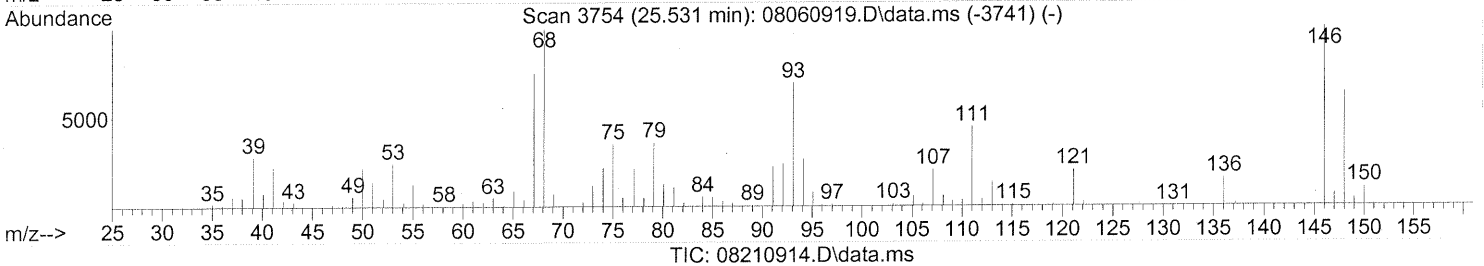
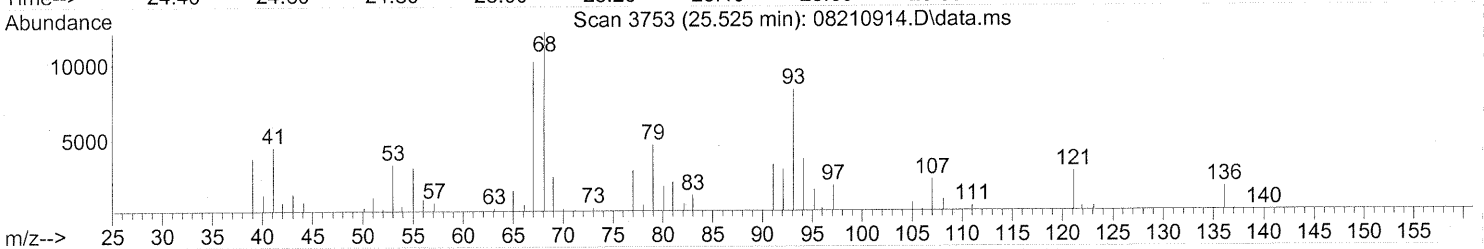
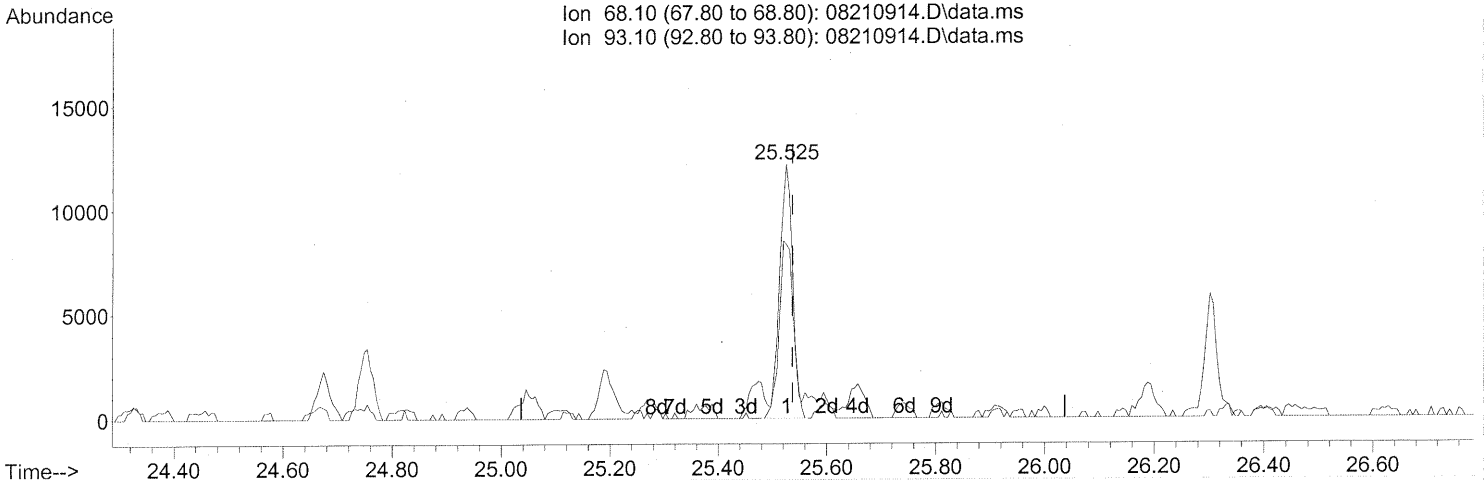
WA 8/24/09

LA 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210914.D
 Acq On : 21 Aug 2009 17:21
 Operator : WA
 Sample : P0902805-007 (1000mL)
 Misc : Environmental Health 101401
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 22 18:52:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.525min (-0.011) 0.98ng
 response 20352

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	89.15#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0902805
 CAS Sample ID: P090820-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/20/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: 8/31/09

397

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902805
CAS Sample ID: P090820-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/20/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/3/09 **398**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090820-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/20/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

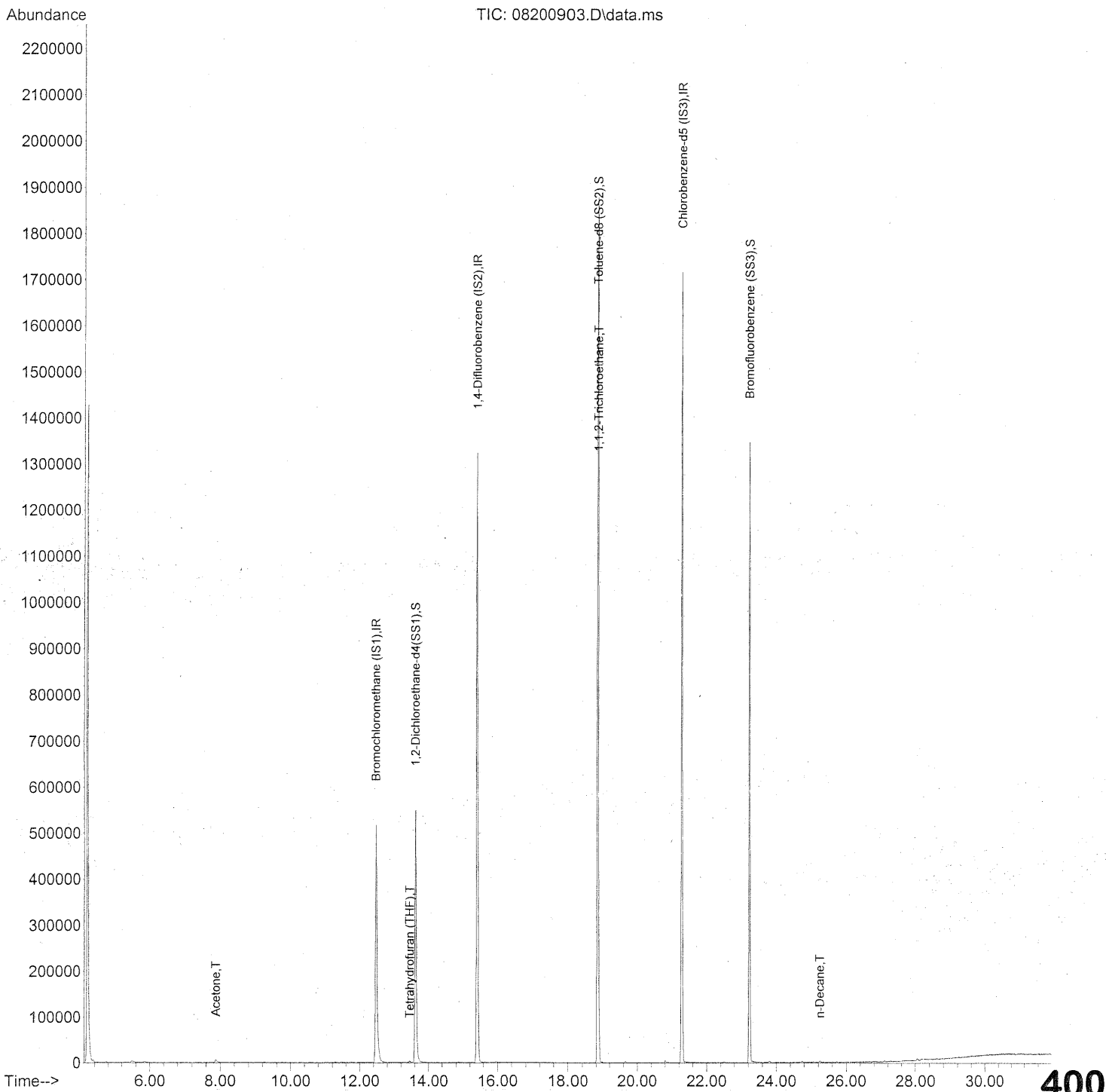
Date: _____

9/3/09

399

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200903.D
Acq On : 20 Aug 2009 9:04
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-08140906
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 11:04:48 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200903.D
 Acq On : 20 Aug 2009 9:04
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 11:04:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	300596	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1508784	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	707582	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	611100	23.390	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.56%	
57) Toluene-d8 (SS2)	18.85	98	1618894	26.184	ng	-0.02
Spiked Amount	25.000		Recovery	=	104.72%	
73) Bromofluorobenzene (SS3)	23.23	174	426940	26.185	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.76%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	845	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.19	45	192	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	7.60	56	92	N.D.		
13) Acetone	7.87	58	5688	0.461	ng	# 84
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.26	84	293	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	0.00	76	0	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.73	72	95	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200903.D
 Acq On : 20 Aug 2009 9:04
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 11:04:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.46	72	1250	0.105 ng	#	85
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.62	62	118	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.97	56	121	N.D.		
41) Benzene	14.87	78	1523	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.31	84	97	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	106	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	138338	9.498 ng #		4
58) Toluene	18.98	91	1326	N.D.		
59) 2-Hexanone	19.39	43	666	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	230	N.D.		
67) m- & p-Xylenes	22.07	91	244	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.68	91	328	N.D.		
71) n-Nonane	22.50	43	416	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.40	105	98	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.09	91	945	N.D.		
77) 3-Ethyltoluene	24.18	105	233	N.D.		
78) 4-Ethyltoluene	24.23	105	508	N.D.		
79) 1,3,5-Trimethylbenzene	24.32	105	314	N.D.		

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200903.D
 Acq On : 20 Aug 2009 9:04
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 11:04:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	132	N.D.		
81) 2-Ethyltoluene	24.57	105	99	N.D.		
82) 1,2,4-Trimethylbenzene	24.84	105	423	N.D.		
83) n-Decane	25.25	57	2983	0.081	ng	# 42
84) Benzyl Chloride	24.83	91	125	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.16	105	101	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	298	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	126	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.48	57	97	N.D.		
94) 1,2,4-Trichlorobenzene	27.54	180	98	N.D.		
95) Naphthalene	27.78	128	1708	N.D.		
96) n-Dodecane	27.71	57	344	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.34	55	94	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Method Blank

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P090821-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/21/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/3/09

404

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090821-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/21/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:  Date: 9/5/09 **405**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090821-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/21/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

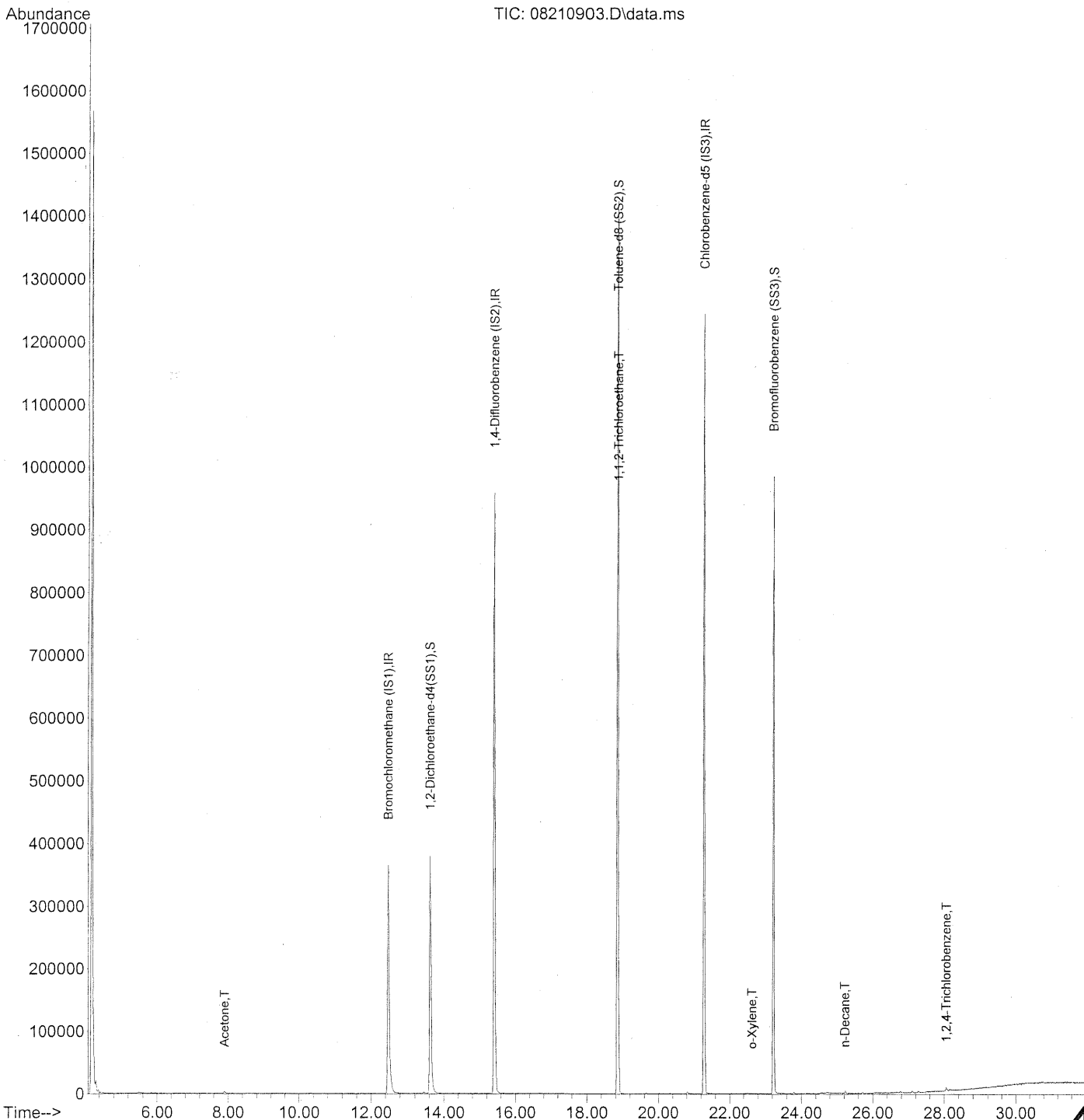
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/5/09 **406**

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210903.D
 Acq On : 21 Aug 2009 9:16
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 14:55:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210903.D
 Acq On : 21 Aug 2009 9:16
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 14:55:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	224566	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1138772	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	524122	25.000	ng	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.63	65	433383	22.204	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.80%	✓
57) Toluene-d8 (SS2)	18.85	98	1227623	26.806	ng	-0.02
Spiked Amount	25.000		Recovery	=	107.24%	✓
73) Bromofluorobenzene (SS3)	23.23	174	332357	27.520	ng	-0.01
Spiked Amount	25.000		Recovery	=	110.08%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	209	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	0.00	45	0	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.89	58	2007	0.218	ng	95
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.26	84	86	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	0.00	76	0	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210903.D
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 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 14:55:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.44	72	425	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	14.88	78	577	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	220	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	106431	9.682 ng FP#		4
58) Toluene	18.98	91	898	N.D.		
59) 2-Hexanone	19.39	43	306	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.81	91	93	N.D.		
67) m- & p-Xylenes	22.04	91	1199	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.63	91	2519	0.060 ng #		32
71) n-Nonane	22.50	43	189	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.23	105	345	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.02	91	229	N.D.		
77) 3-Ethyltoluene	24.17	105	200	N.D.		
78) 4-Ethyltoluene	24.23	105	92	N.D.		
79) 1,3,5-Trimethylbenzene	24.23	105	92	N.D.		

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210903.D
 Acq On : 21 Aug 2009 9:16
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 14:55:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	801	N.D.		
81) 2-Ethyltoluene	24.83	105	253	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	253	N.D.		
83) n-Decane	25.22	57	2289	0.084 ng	#	42
84) Benzyl Chloride	24.83	91	95	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.36	105	86	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.36	105	86	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.47	57	89	N.D.		
94) 1,2,4-Trichlorobenzene	28.06	180	2841	0.205 ng		96
95) Naphthalene	27.75	128	994	N.D.		
96) n-Dodecane	27.70	57	97	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	26.01	91	87	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.
Client Project ID: 16512

CAS Project ID: P0902805

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 8/13/09
Date(s) Received: 8/14/09
Date(s) Analyzed: 8/20 - 8/21/09

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P090820-MB	94	70-130	105	70-130	105	70-130	
Method Blank	P090821-MB	89	70-130	107	70-130	110	70-130	
Lab Control Sample	P090820-LCS	96	70-130	104	70-130	107	70-130	
Lab Control Sample	P090821-LCS	89	70-130	104	70-130	112	70-130	
101309	P0902805-001	89	70-130	102	70-130	112	70-130	
101310	P0902805-002	90	70-130	104	70-130	114	70-130	
101311	P0902805-003	90	70-130	102	70-130	112	70-130	
101398	P0902805-004	89	70-130	103	70-130	113	70-130	
101399	P0902805-005	89	70-130	104	70-130	112	70-130	
101400	P0902805-006	90	70-130	104	70-130	113	70-130	
101401	P0902805-007	90	70-130	104	70-130	110	70-130	

Verified By: _____

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Date: _____

8/3/09

412

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P090820-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/20/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
115-07-1	Propene	26.3	25.3	96	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.1	93	61-118	
74-87-3	Chloromethane	25.0	25.9	104	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	24.8	95	65-122	
75-01-4	Vinyl Chloride	25.3	24.5	97	57-132	
106-99-0	1,3-Butadiene	26.8	26.8	100	66-161	
74-83-9	Bromomethane	25.8	28.8	112	67-130	
75-00-3	Chloroethane	25.5	24.4	96	68-123	
64-17-5	Ethanol	130	121	93	50-155	
75-05-8	Acetonitrile	26.0	21.6	83	48-148	
107-02-8	Acrolein	26.3	24.5	93	67-138	
67-64-1	Acetone	132	127	96	59-121	
75-69-4	Trichlorofluoromethane	26.3	25.3	96	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	39.4	82	54-126	
107-13-1	Acrylonitrile	25.8	26.3	102	65-134	
75-35-4	1,1-Dichloroethene	27.5	28.8	105	70-123	
75-09-2	Methylene Chloride	26.8	24.3	91	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	21.8	81	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	29.9	109	69-126	
75-15-0	Carbon Disulfide	26.0	25.4	98	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	25.4	100	69-125	
75-34-3	1,1-Dichloroethane	26.5	25.4	96	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	25.3	96	72-132	
108-05-4	Vinyl Acetate	126	96.7	77	73-158	
78-93-3	2-Butanone (MEK)	26.8	26.7	100	68-126	

Verified By: _____

Date: _____

9/3/09

413

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090820-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/20/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.5	98	69-124	
141-78-6	Ethyl Acetate	52.0	51.6	99	65-126	
110-54-3	n-Hexane	26.0	23.6	91	63-125	
67-66-3	Chloroform	27.5	27.5	100	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	24.0	91	65-124	
107-06-2	1,2-Dichloroethane	26.3	25.5	97	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.4	98	69-127	
71-43-2	Benzene	25.8	23.9	93	68-122	
56-23-5	Carbon Tetrachloride	26.3	26.6	101	68-137	
110-82-7	Cyclohexane	51.8	50.1	97	68-121	
78-87-5	1,2-Dichloropropane	26.0	25.3	97	69-128	
75-27-4	Bromodichloromethane	26.3	26.1	99	71-131	
79-01-6	Trichloroethene	25.8	27.4	106	72-122	
123-91-1	1,4-Dioxane	26.0	26.4	102	73-127	
80-62-6	Methyl Methacrylate	52.8	54.7	104	80-133	
142-82-5	n-Heptane	25.8	24.3	94	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	24.3	99	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.5	95	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	26.8	99	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.4	102	76-125	
108-88-3	Toluene	26.8	27.0	101	74-119	
591-78-6	2-Hexanone	27.0	25.2	93	64-118	
124-48-1	Dibromochloromethane	28.3	31.1	110	79-129	
106-93-4	1,2-Dibromoethane	26.3	28.7	109	79-125	
123-86-4	n-Butyl Acetate	27.5	22.2	81	70-136	

Verified By: _____

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Date: _____

9/3/09

414

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090820-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/20/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.3	25.8	98	75-126	
127-18-4	Tetrachloroethene	25.3	28.3	112	72-125	
108-90-7	Chlorobenzene	26.5	28.1	106	74-121	
100-41-4	Ethylbenzene	26.3	27.2	103	76-120	
179601-23-1	m,p-Xylenes	51.5	52.2	101	75-120	
75-25-2	Bromoform	26.5	29.2	110	76-143	
100-42-5	Styrene	26.3	28.3	108	78-124	
95-47-6	o-Xylene	26.0	27.1	104	76-121	
111-84-2	n-Nonane	25.8	24.1	93	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	28.5	106	77-126	
98-82-8	Cumene	25.3	26.1	103	78-125	
80-56-8	alpha-Pinene	24.8	25.7	104	78-125	
103-65-1	n-Propylbenzene	25.3	26.5	105	80-127	
622-96-8	4-Ethyltoluene	26.3	27.8	106	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	28.1	106	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	27.8	109	76-123	
100-44-7	Benzyl Chloride	26.8	27.9	104	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	29.3	113	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	28.3	108	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	29.0	112	75-124	
5989-27-5	d-Limonene	26.5	27.5	104	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	32.7	121	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	32.2	118	70-139	
91-20-3	Naphthalene	25.0	27.9	112	69-141	
87-68-3	Hexachlorobutadiene	26.8	28.3	106	68-138	

Verified By: _____

f

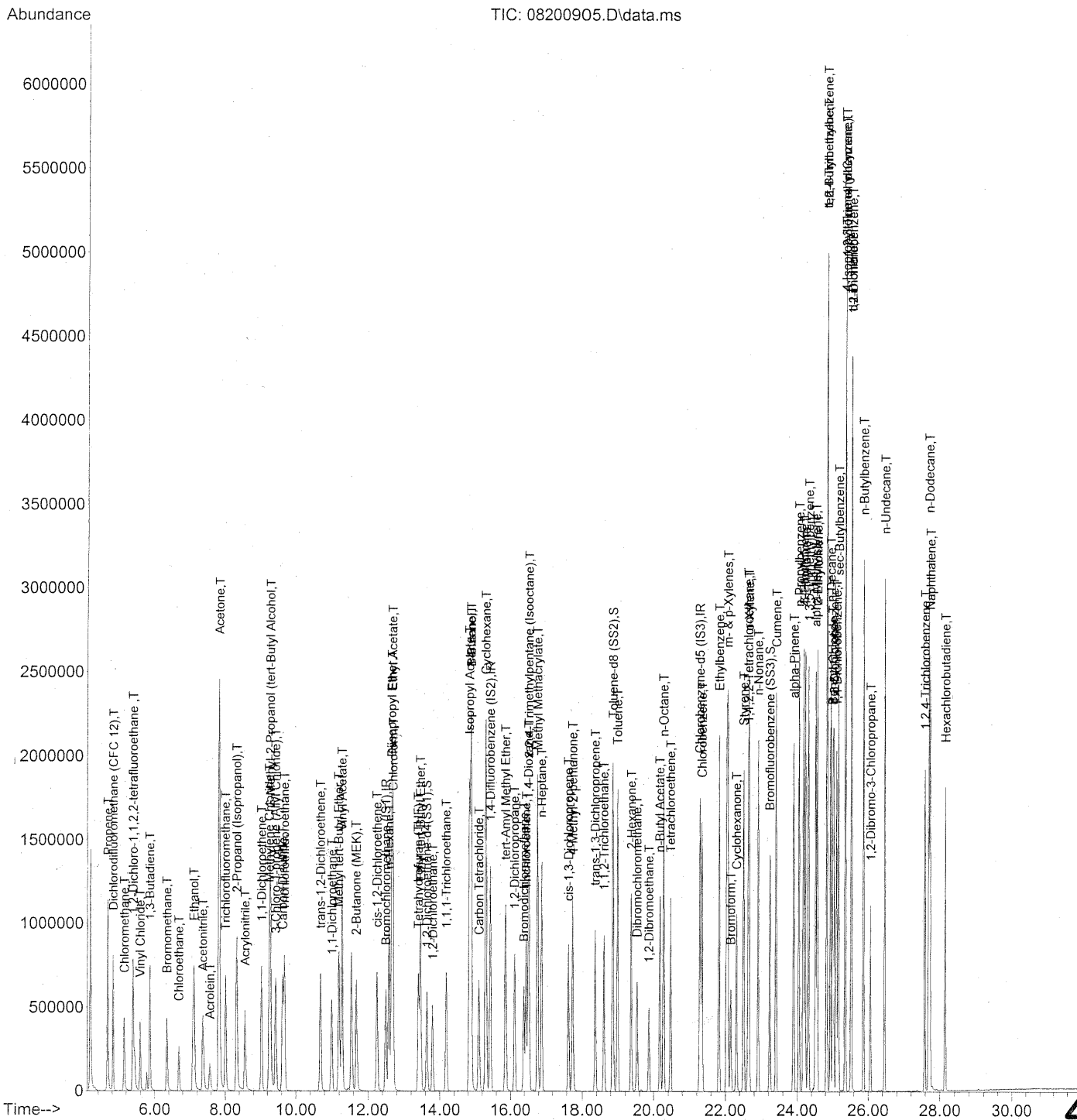
Date: _____

9/3/09

415

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200905.D
Acq On : 20 Aug 2009 10:26
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-08140906/S20-07270906
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 11:09:21 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200905.D
 Acq On : 20 Aug 2009 10:26
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.49	130	296979	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1520733	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	728720	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	616792	23.895	ng	-0.03
Spiked Amount	25.000		Recovery	=	95.60%	
57) Toluene-d8 (SS2)	18.85	98	1649786	25.910	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.64%	
73) Bromofluorobenzene (SS3)	23.23	174	448479	26.709	ng	-0.01
Spiked Amount	25.000		Recovery	=	106.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	515044	25.273	ng	99
3) Dichlorodifluoromethan...	4.82	85	802573	24.095	ng	99
4) Chloromethane	5.14	50	580706	25.948	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	335330	24.779	ng	98
6) Vinyl Chloride	5.58	62	526211	24.474	ng	97
7) 1,3-Butadiene	5.86	54	413499	26.832	ng	99
8) Bromomethane	6.35	94	376426	28.760	ng	99
9) Chloroethane	6.69	64	305454	24.442	ng	97
10) Ethanol	7.11	45	1566831	121.292	ng	100
11) Acetonitrile	7.36	41	817673	21.614	ng	99
12) Acrolein	7.56	56	240612	24.470	ng	98
13) Acetone	7.82	58	1548497	127.045	ng	95
14) Trichlorofluoromethane	8.01	101	761542	25.289	ng	100
15) 2-Propanol (Isopropanol)	8.33	45	1889506	39.448	ng	100
16) Acrylonitrile	8.56	53	579339	26.306	ng	98
17) 1,1-Dichloroethene	9.03	96	402723	28.801	ng	87
18) 2-Methyl-2-Propanol (t...	9.27	59	2091898	49.204	ng	99
19) Methylene Chloride	9.25	84	397969	24.313	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	687721	21.795	ng	97
21) Trichlorotrifluoroethane	9.67	151	326895	29.855	ng	99
22) Carbon Disulfide	9.62	76	1468488	25.446	ng	98
23) trans-1,2-Dichloroethene	10.68	61	627593	25.366	ng	93
24) 1,1-Dichloroethane	10.99	63	763224	25.438	ng	100
25) Methyl tert-Butyl Ether	11.19	73	1166848	25.302	ng	99
26) Vinyl Acetate	11.28	86	239945	96.735	ng	# 91
27) 2-Butanone (MEK)	11.67	72	293508	26.670	ng	93
28) cis-1,2-Dichloroethene	12.25	61	611046	26.532	ng	94
29) Diisopropyl Ether	12.66	87	397659	27.001	ng	# 41
30) Ethyl Acetate	12.68	61	295829	51.601	ng	98
31) n-Hexane	12.58	57	692249	23.604	ng	100

417

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200905.D
 Acq On : 20 Aug 2009 10:26
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 11:09:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	709189	27.467	ng	99
34) Tetrahydrofuran (THF)	13.40	72	282036	24.042	ng	97
35) Ethyl tert-Butyl Ether	13.46	87	468086	24.568	ng	94
36) 1,2-Dichloroethane	13.80	62	601156	25.476	ng	97
38) 1,1,1-Trichloroethane	14.18	97	656179	25.437	ng	98
39) Isopropyl Acetate	14.84	61	555532	49.245	ng	# 90
40) 1-Butanol	14.88	56	873416	44.253	ng	# 70
41) Benzene	14.88	78	1598810	23.913	ng	99
42) Carbon Tetrachloride	15.11	117	566507	26.585	ng	99
43) Cyclohexane	15.30	84	1226088	50.067	ng	95
44) tert-Amyl Methyl Ether	15.86	73	1209282	24.084	ng	98
45) 1,2-Dichloropropane	16.11	63	425127	25.317	ng	98
46) Bromodichloromethane	16.38	83	576118	26.147	ng	99
47) Trichloroethene	16.45	130	413410	27.414	ng	99
48) 1,4-Dioxane	16.51	88	336978	26.372	ng	80
49) 2,2,4-Trimethylpentane...	16.52	57	1862472	23.649	ng	96
50) Methyl Methacrylate	16.77	100	336664	54.697	ng	98
51) n-Heptane	16.89	71	436099	24.304	ng	97
52) cis-1,3-Dichloropropene	17.65	75	675852	24.285	ng	99
53) 4-Methyl-2-pentanone	17.76	58	409314	25.472	ng	98
54) trans-1,3-Dichloropropene	18.36	75	709472	26.812	ng	99
55) 1,1,2-Trichloroethane	18.60	97	387432	26.392	ng	99
58) Toluene	18.98	91	1689355	26.996	ng	99
59) 2-Hexanone	19.37	43	1050252	25.238	ng	97
60) Dibromochloromethane	19.53	129	459775	31.054	ng	99
61) 1,2-Dibromoethane	19.86	107	450204	28.681	ng	99
62) n-Butyl Acetate	20.17	43	1089912	22.221	ng	99
63) n-Octane	20.28	57	389603	25.752	ng	94
64) Tetrachloroethene	20.47	166	409813	28.300	ng	99
65) Chlorobenzene	21.34	112	1089253	28.134	ng	99
66) Ethylbenzene	21.82	91	1946157	27.206	ng	99
67) m- & p-Xylenes	22.06	91	3017865	52.151	ng	98
68) Bromoform	22.15	173	359290	29.226	ng	99
69) Styrene	22.51	104	1182101	28.262	ng	99
70) o-Xylene	22.65	91	1572427	27.102	ng	98
71) n-Nonane	22.91	43	927733	24.065	ng	97
72) 1,1,2,2-Tetrachloroethane	22.64	83	733908	28.504	ng	100
74) Cumene	23.41	105	1915061	26.130	ng	100
75) alpha-Pinene	23.90	93	963874	25.657	ng	100
76) n-Propylbenzene	24.05	91	2444199	26.530	ng	99
77) 3-Ethyltoluene	24.18	105	1908054	27.242	ng	100
78) 4-Ethyltoluene	24.23	105	1889822	27.846	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1608491	28.102	ng	98

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	873684	28.510	ng	97
81) 2-Ethyltoluene	24.56	105	1899523	26.894	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1621941	27.786	ng	100
83) n-Decane	24.94	57	970197	25.564	ng	98
84) Benzyl Chloride	25.00	91	1524029	27.853	ng	99
85) 1,3-Dichlorobenzene	25.03	146	865349	29.292	ng	98
86) 1,4-Dichlorobenzene	25.11	146	890935	28.284	ng	99
87) sec-Butylbenzene	25.17	105	2158959	27.379	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1935942	27.532	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1650616	27.758	ng	96
90) 1,2-Dichlorobenzene	25.53	146	813493	29.044	ng	99
91) d-Limonene	25.53	68	681770	27.466	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	314832	32.681	ng	88
93) n-Undecane	26.46	57	1051331	26.038	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	620340	32.212	ng	99
95) Naphthalene	27.73	128	2214354	27.933	ng	100
96) n-Dodecane	27.70	57	1078245	22.986	ng	99
97) Hexachlorobutadiene	28.15	225	346874	28.319	ng	98
98) Cyclohexanone	22.31	55	573353	22.114	ng	97
99) tert-Butylbenzene	24.83	119	1546420	27.373	ng	99
100) n-Butylbenzene	25.86	91	1867455	28.722	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902805
 CAS Sample ID: P090821-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/21/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	21.5	82	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	22.2	85	61-118	
74-87-3	Chloromethane	25.0	24.3	97	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	25.4	98	65-122	
75-01-4	Vinyl Chloride	25.3	23.4	92	57-132	
106-99-0	1,3-Butadiene	26.8	25.2	94	66-161	
74-83-9	Bromomethane	25.8	27.4	106	67-130	
75-00-3	Chloroethane	25.5	22.5	88	68-123	
64-17-5	Ethanol	130	111	85	50-155	
75-05-8	Acetonitrile	26.0	19.7	76	48-148	
107-02-8	Acrolein	26.3	22.0	84	67-138	
67-64-1	Acetone	132	117	89	59-121	
75-69-4	Trichlorofluoromethane	26.3	24.2	92	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	37.5	78	54-126	
107-13-1	Acrylonitrile	25.8	24.4	95	65-134	
75-35-4	1,1-Dichloroethene	27.5	27.7	101	70-123	
75-09-2	Methylene Chloride	26.8	23.2	87	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	19.6	73	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	30.1	109	69-126	
75-15-0	Carbon Disulfide	26.0	24.0	92	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	23.8	93	69-125	
75-34-3	1,1-Dichloroethane	26.5	24.1	91	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	24.7	94	72-132	
108-05-4	Vinyl Acetate	126	90.8	72	73-158	L
78-93-3	2-Butanone (MEK)	26.8	25.0	93	68-126	

L = Laboratory control sample recovery outside the specified limits, results may be biased low.

Verified By: f Date: 9/3/09 **420**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P090821-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/21/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	24.7	91	69-124	
141-78-6	Ethyl Acetate	52.0	48.4	93	65-126	
110-54-3	n-Hexane	26.0	22.2	85	63-125	
67-66-3	Chloroform	27.5	26.2	95	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	22.6	85	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.9	91	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	24.9	96	69-127	
71-43-2	Benzene	25.8	23.1	90	68-122	
56-23-5	Carbon Tetrachloride	26.3	26.3	100	68-137	
110-82-7	Cyclohexane	51.8	49.1	95	68-121	
78-87-5	1,2-Dichloropropane	26.0	23.8	92	69-128	
75-27-4	Bromodichloromethane	26.3	24.6	94	71-131	
79-01-6	Trichloroethene	25.8	27.9	108	72-122	
123-91-1	1,4-Dioxane	26.0	25.6	98	73-127	
80-62-6	Methyl Methacrylate	52.8	55.1	104	80-133	
142-82-5	n-Heptane	25.8	23.3	90	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	22.8	93	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	23.9	89	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	25.5	94	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	25.8	99	76-125	
108-88-3	Toluene	26.8	27.3	102	74-119	
591-78-6	2-Hexanone	27.0	23.9	89	64-118	
124-48-1	Dibromochloromethane	28.3	31.3	111	79-129	
106-93-4	1,2-Dibromoethane	26.3	28.4	108	79-125	
123-86-4	n-Butyl Acetate	27.5	20.6	75	70-136	

Verified By: _____

Date: _____

a/3/09

421

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0902805

CAS Sample ID: P090821-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 8/21/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	24.5	93	75-126	
127-18-4	Tetrachloroethene	25.3	29.7	117	72-125	
108-90-7	Chlorobenzene	26.5	28.8	109	74-121	
100-41-4	Ethylbenzene	26.3	27.1	103	76-120	
179601-23-1	m,p-Xylenes	51.5	52.6	102	75-120	
75-25-2	Bromoform	26.5	30.3	114	76-143	
100-42-5	Styrene	26.3	28.6	109	78-124	
95-47-6	o-Xylene	26.0	27.2	105	76-121	
111-84-2	n-Nonane	25.8	22.5	87	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	27.4	101	77-126	
98-82-8	Cumene	25.3	26.5	105	78-125	
80-56-8	alpha-Pinene	24.8	25.7	104	78-125	
103-65-1	n-Propylbenzene	25.3	26.2	104	80-127	
622-96-8	4-Ethyltoluene	26.3	28.3	108	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	28.8	109	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	28.1	110	76-123	
100-44-7	Benzyl Chloride	26.8	27.4	102	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	30.4	117	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	29.3	111	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	29.7	115	75-124	
5989-27-5	d-Limonene	26.5	26.6	100	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	32.9	122	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	33.4	122	70-139	
91-20-3	Naphthalene	25.0	28.6	114	69-141	
87-68-3	Hexachlorobutadiene	26.8	30.3	113	68-138	

Verified By: _____

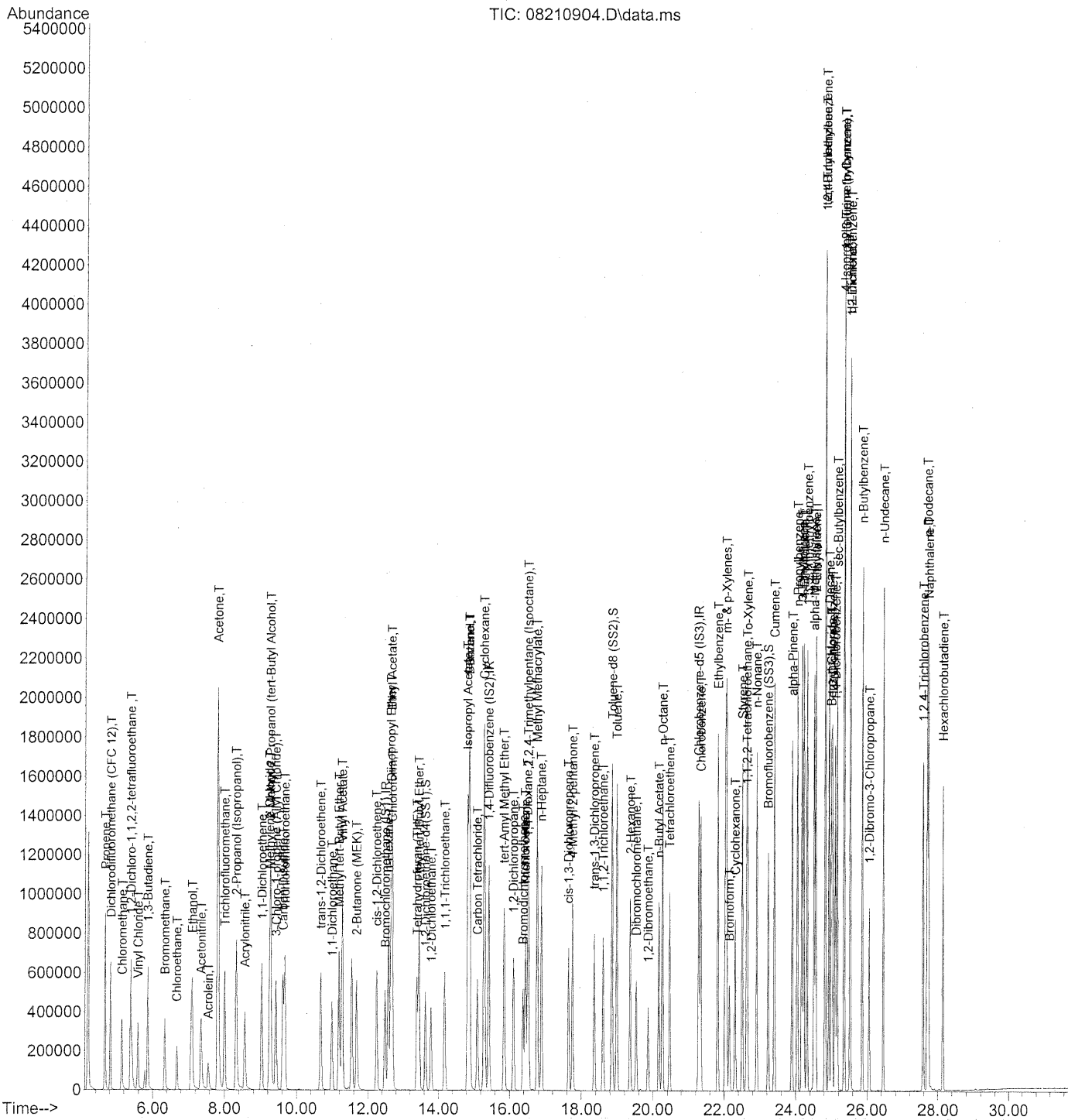
Date: _____

9/3/09

422

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210904.D
Acq On : 21 Aug 2009 9:56
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-08140906/S20-07270906
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 14:56:11 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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 Acq On : 21 Aug 2009 9:56
 Operator : WA
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.49	130	267890	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1353443	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	634021	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	517747	22.236	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.96%	
57) Toluene-d8 (SS2)	18.85	98	1439043	25.976	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.92%	
73) Bromofluorobenzene (SS3)	23.23	174	407732	27.909	ng	-0.01
Spiked Amount	25.000		Recovery	=	111.64%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	395967	21.540	ng	100
3) Dichlorodifluoromethan...	4.82	85	667173	22.205	ng	99
4) Chloromethane	5.14	50	489635	24.255	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	309581	25.360	ng	99
6) Vinyl Chloride	5.58	62	454596	23.439	ng	98
7) 1,3-Butadiene	5.86	54	350701	25.228	ng	99
8) Bromomethane	6.34	94	323878	27.432	ng	99
9) Chloroethane	6.68	64	253933	22.526	ng	99
10) Ethanol	7.11	45	1287904	110.525	ng	100
11) Acetonitrile	7.36	41	672710	19.713	ng	100
12) Acrolein	7.55	56	195017	21.986	ng	97
13) Acetone	7.82	58	1282561	116.653	ng	97
14) Trichlorofluoromethane	8.01	101	657197	24.193	ng	99
15) 2-Propanol (Isopropanol)	8.32	45	1620055	37.496	ng	99
16) Acrylonitrile	8.55	53	484485	24.388	ng	99
17) 1,1-Dichloroethene	9.03	96	349100	27.677	ng	# 83
18) 2-Methyl-2-Propanol (t...	9.27	59	1792897	46.750	ng	98
19) Methylene Chloride	9.25	84	341848	23.152	ng	89
20) 3-Chloro-1-propene (Al...	9.42	41	558411	19.619	ng	93
21) Trichlorotrifluoroethane	9.67	151	297551	30.126	ng	95
22) Carbon Disulfide	9.62	76	1250697	24.026	ng	99
23) trans-1,2-Dichloroethene	10.68	61	532085	23.841	ng	92
24) 1,1-Dichloroethane	10.99	63	651055	24.055	ng	99
25) Methyl tert-Butyl Ether	11.19	73	1029560	24.749	ng	99
26) Vinyl Acetate	11.27	86	203212	90.822	ng	# 80
27) 2-Butanone (MEK)	11.67	72	248237	25.006	ng	# 91
28) cis-1,2-Dichloroethene	12.24	61	513475	24.716	ng	91
29) Diisopropyl Ether	12.65	87	353480	26.607	ng	# 1
30) Ethyl Acetate	12.68	61	250346	48.409	ng	99
31) n-Hexane	12.58	57	588568	22.248	ng	99

424

8/21/09

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210904.D
 Acq On : 21 Aug 2009 9:56
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 14:56:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	609813	26.183	ng	99
34) Tetrahydrofuran (THF)	13.40	72	239585	22.641	ng	94
35) Ethyl tert-Butyl Ether	13.46	87	404783	23.553	ng	90
36) 1,2-Dichloroethane	13.80	62	508446	23.886	ng	97
38) 1,1,1-Trichloroethane	14.19	97	571097	24.875	ng	96
39) Isopropyl Acetate	14.83	61	463902	46.205	ng	# 90
40) 1-Butanol	14.88	56	737699	41.997	ng	# 66
41) Benzene	14.88	78	1372562	23.066	ng	99
42) Carbon Tetrachloride	15.11	117	497895	26.253	ng	99
43) Cyclohexane	15.30	84	1070975	49.138	ng	92
44) tert-Amyl Methyl Ether	15.85	73	1027234	22.987	ng	97
45) 1,2-Dichloropropane	16.11	63	355131	23.763	ng	99
46) Bromodichloromethane	16.38	83	483075	24.635	ng	98
47) Trichloroethene	16.44	130	374867	27.931	ng	100
48) 1,4-Dioxane	16.51	88	291185	25.605	ng	82
49) 2,2,4-Trimethylpentane...	16.52	57	1568836	22.383	ng	96
50) Methyl Methacrylate	16.77	100	301591	55.055	ng	# 88
51) n-Heptane	16.88	71	372782	23.343	ng	95
52) cis-1,3-Dichloropropene	17.65	75	565275	22.822	ng	98
53) 4-Methyl-2-pentanone	17.76	58	341677	23.891	ng	98
54) trans-1,3-Dichloropropene	18.36	75	599961	25.476	ng	98
55) 1,1,2-Trichloroethane	18.60	97	337053	25.798	ng	95
58) Toluene	18.98	91	1484686	27.269	ng	99
59) 2-Hexanone	19.37	43	865198	23.897	ng	96
60) Dibromochloromethane	19.53	129	402639	31.256	ng	99
61) 1,2-Dibromoethane	19.86	107	388517	28.448	ng	98
62) n-Butyl Acetate	20.17	43	879411	20.607	ng	98
63) n-Octane	20.28	57	322625	24.510	ng	90
64) Tetrachloroethene	20.47	166	373968	29.682	ng	99
65) Chlorobenzene	21.34	112	969296	28.775	ng	100
66) Ethylbenzene	21.82	91	1687431	27.112	ng	98
67) m- & p-Xylenes	22.06	91	2650056	52.635	ng	97
68) Bromoform	22.15	173	324093	30.300	ng	98
69) Styrene	22.51	104	1040755	28.600	ng	98
70) o-Xylene	22.65	91	1372212	27.184	ng	97
71) n-Nonane	22.91	43	755081	22.512	ng	94
72) 1,1,2,2-Tetrachloroethane	22.63	83	613746	27.397	ng	100
74) Cumene	23.41	105	1689124	26.490	ng	100
75) alpha-Pinene	23.90	93	841439	25.744	ng	99
76) n-Propylbenzene	24.05	91	2097660	26.169	ng	98
77) 3-Ethyltoluene	24.17	105	1693385	27.788	ng	100
78) 4-Ethyltoluene	24.23	105	1671259	28.303	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1434497	28.805	ng	97

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210904.D
 Acq On : 21 Aug 2009 9:56
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 21 14:56:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	771190	28.924	ng	99
81) 2-Ethyltoluene	24.56	105	1681040	27.355	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1427855	28.115	ng	99
83) n-Decane	24.94	57	808796	24.494	ng	97
84) Benzyl Chloride	25.00	91	1302627	27.362	ng	98
85) 1,3-Dichlorobenzene	25.03	146	781110	30.390	ng	97
86) 1,4-Dichlorobenzene	25.11	146	803865	29.331	ng	98
87) sec-Butylbenzene	25.17	105	1905062	27.768	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	1707501	27.910	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1444091	27.912	ng	96
90) 1,2-Dichlorobenzene	25.53	146	722763	29.659	ng	100
91) d-Limonene	25.53	68	574199	26.587	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.06	157	276107	32.942	ng	83
93) n-Undecane	26.46	57	866895	24.677	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	560153	33.431	ng	99
95) Naphthalene	27.73	128	1975667	28.644	ng	100
96) n-Dodecane	27.70	57	885888	21.707	ng	98
97) Hexachlorobutadiene	28.15	225	322950	30.304	ng	99
98) Cyclohexanone	22.31	55	474611	21.040	ng	95
99) tert-Butylbenzene	24.83	119	1377485	28.024	ng	99
100) n-Butylbenzene	25.86	91	1587241	28.058	ng	99

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

INITIAL CALIBRATION STANDARDS

CONTINUING CALIBRATION STANDARDS

BFB TUNING & MASS CALIBRATIONS

RUN LOGS

RESULTS OF VOLATILE ORGANIC ANALYSIS

QC SUMMARY FORMS

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethan										
2) T Propene	2.083	2.046	1.527	1.452	1.677	1.785	1.456	1.699	1.716	14.33
3) T Dichlorodifluorom	3.199	3.005	2.791	2.724	2.691	2.912	2.335	2.776	2.804	9.02
4) T Chloromethane	1.963	2.024	1.872	1.893	1.705	2.186	1.722	1.706	1.884	9.13
5) T 1,2-Dichloro-1,1,	1.177	1.316	1.196	1.051	1.039	1.184	0.985	1.166	1.139	9.39
6) T Vinyl Chloride	1.724	1.755	1.687	1.750	1.769	2.054	1.707	2.034	1.810	8.12
7) T 1,3-Butadiene	1.207	1.292	1.234	1.222	1.230	1.502	1.236	1.455	1.297	8.89
8) T Bromomethane	1.264	1.072	1.027	1.044	1.036	1.293	0.980	1.098	1.102	10.39
9) T Chloroethane	1.075	1.160	0.919	1.000	1.033	1.173	0.945	1.112	1.052	9.00
10) T Ethanol	1.345	1.232	1.028	1.032	0.995	1.126	0.909	1.031	1.087	12.94
11) T Acetonitrile	3.791	3.815	3.200	2.940	2.879	3.247	2.591	3.014	3.185	13.55
12) T Acrolein	0.735	0.915	0.767	0.793	0.825	0.940	0.758	0.890	0.828	9.42
13) T Acetone			1.167	1.074	1.016	1.100	0.854	0.946	1.026	11.02
14) T Trichlorofluorome	2.730	2.602	2.531	2.419	2.360	2.816	2.244	2.579	2.535	7.48
15) T 2-Propanol (Isopr	5.316	4.773	4.266	4.079	3.198	4.177	3.091	3.356	4.032	19.47
16) T Acrylonitrile	1.226	1.941	1.770	1.848	1.903	2.263	1.804	2.077	1.854	16.20
17) T 1,1-Dichloroethen	1.098	1.161	1.131	1.150	1.132	1.359	1.091	1.293	1.177	8.20
18) T 2-Methyl-2-Propan	4.615	4.098	3.719	3.708	3.575	4.214	3.280	1.423	3.579	26.97
19) T Methylene Chlorid	1.722	1.622	1.254	1.259	1.232	1.428	1.151	1.356	1.378	14.59
20) T 3-Chloro-1-propen	2.983	2.989	2.818	2.826	2.401	2.664	2.134	2.435	2.656	11.56
21) T Trichlorotrifluor	0.856	0.905	0.889	0.896	0.873	1.064	0.870	1.021	0.922	8.37
22) T Carbon Disulfide	5.485	5.227	4.603	4.594	4.557	5.329	4.218	4.851	4.858	9.16
23) T trans-1,2-Dichlor	1.848	2.189	1.929	2.047	2.041	2.440	1.938	2.230	2.083	9.32
24) T 1,1-Dichloroethan	2.670	2.757	2.264	2.426	2.360	2.850	2.271	2.607	2.526	8.94
25) T Methyl tert-Butyl	4.114	4.046	3.646	3.595	3.643	4.360	3.538	4.115	3.882	8.02
26) T Vinyl Acetate	0.230	0.243	0.237	0.239	0.177	0.222	0.165	0.156	0.209	17.35
27) T 2-Butanone (MEK)	0.989	1.007	0.915	0.892	0.915	1.072	0.855	0.766	0.926	10.32
28) T cis-1,2-Dichloroe	1.913	1.980	1.790	1.854	1.890	2.244	1.789	2.049	1.939	7.84
29) T Diisopropyl Ether	1.013	1.376	1.212	1.246	1.214	1.425	1.129	1.303	1.240	10.65

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.395	0.513	0.492	0.479	0.491	0.561	0.439	0.491	0.483	10.18
31) T n-Hexane	2.766	2.862	2.319	2.390	2.266	2.624	2.095	2.429	2.469	10.60
32) T Chloroform	2.301	2.230	2.080	2.148	2.129	2.436	1.910	2.154	2.174	7.16
33) S 1,2-Dichloroethan	2.180	2.200	2.208	2.191	2.172	2.156	2.144	2.133	2.173	1.24
34) T Tetrahydrofuran (1.393	1.027	0.901	0.860	1.025	0.804	0.903		0.988	19.90
35) T Ethyl tert-Butyl	1.747	1.639	1.589	1.578	1.501	1.752	1.405	1.621	1.604	7.26
36) T 1,2-Dichloroethan	2.106	2.083	1.937	1.868	1.850	2.232	1.788	2.028	1.986	7.62
-----ISTD-----										
37) IR 1,4-Difluorobenze										
38) T 1,1,1-Trichloroet	0.493	0.438	0.396	0.402	0.392	0.469	0.380	0.422	0.424	9.47
39) T Isopropyl Acetate	0.199	0.203	0.176	0.176	0.176	0.207	0.163	0.183	0.185	8.43
40) T 1-Butanol	0.444	0.385	0.301	0.293	0.285	0.330	0.265	0.291	0.324	18.74
41) T Benzene	1.390	1.294	1.057	1.020	0.989	1.140	0.898	1.005	1.099	15.15
42) T Carbon Tetrachlor	0.346	0.351	0.327	0.329	0.336	0.408	0.329	0.377	0.350	8.13
43) T Cyclohexane	0.465	0.420	0.379	0.382	0.383	0.440	0.351	0.401	0.403	9.21
44) T tert-Amyl Methyl	0.924	0.905	0.814	0.799	0.775	0.901	0.707	0.778	0.825	9.32
45) T 1,2-Dichloropropa	0.283	0.286	0.260	0.268	0.261	0.313	0.251	0.286	0.276	7.20
46) T Bromodichlorometh	0.375	0.388	0.340	0.344	0.339	0.408	0.331	0.371	0.362	7.63
47) T Trichloroethene	0.255	0.248	0.231	0.233	0.233	0.283	0.230	0.270	0.248	8.13
48) T 1,4-Dioxane	0.211	0.210	0.217	0.202	0.205	0.235	0.190	0.211	0.210	6.08
49) T 2,2,4-Trimethylpe	1.459	1.421	1.232	1.243	1.233	1.428	1.112	1.229	1.295	9.62
50) T Methyl Methacryla	0.084	0.106	0.097	0.096	0.098	0.118	0.098	0.112	0.101	10.64
51) T n-Heptane	0.330	0.309	0.283	0.282	0.275	0.328	0.259	0.294	0.295	8.56
52) T cis-1,3-Dichlorop	0.492	0.469	0.422	0.433	0.431	0.517	0.421	0.476	0.458	7.87
53) T 4-Methyl-2-pentan	0.262	0.275	0.257	0.255	0.252	0.302	0.239	0.271	0.264	7.19
54) T trans-1,3-Dichlor	0.492	0.436	0.391	0.413	0.408	0.489	0.399	0.452	0.435	9.06
55) T 1,1,2-Trichloroet	0.248	0.251	0.226	0.234	0.227	0.270	0.220	0.254	0.241	7.12
-----ISTD-----										
56) IR Chlorobenzene-d5										
57) S Toluene-d8 (SS2)	2.196	2.196	2.181	2.184	2.176	2.177	2.188	2.177	2.184	0.37

435

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

157 8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.598	2.282	2.011	2.028	1.956	2.323	1.860	2.115	2.147	11.21
59) T 2-Hexanone	1.631	1.475	1.347	1.365	1.367	1.586	1.255	1.396	1.428	8.91
60) T Dibromochlorometh	0.488	0.496	0.473	0.476	0.482	0.597	0.487	0.566	0.508	9.17
61) T 1,2-Dibromoethane	0.567	0.548	0.480	0.512	0.510	0.617	0.496	0.577	0.539	8.68
62) T n-Butyl Acetate	1.970	1.781	1.544	1.562	1.554	1.839	1.464	1.748	1.683	10.51
63) T n-Octane	0.560	0.571	0.505	0.499	0.491	0.570	0.450	0.506	0.519	8.42
64) T Tetrachloroethene	0.482	0.483	0.476	0.481	0.458	0.568	0.469	0.556	0.497	8.29
65) T Chlorobenzene	1.590	1.363	1.215	1.270	1.217	1.454	1.169	1.348	1.328	10.63
66) T Ethylbenzene	2.854	2.575	2.315	2.330	2.298	2.695	2.145	2.421	2.454	9.60
67) T m- & p-Xylenes	2.378	2.159	1.844	1.903	1.829	2.151	1.706	1.913	1.985	11.21
68) T Bromoform	0.336	0.384	0.393	0.381	0.411	0.521	0.432	0.516	0.422	15.56
69) T Styrene	1.591	1.461	1.301	1.326	1.336	1.629	1.314	1.522	1.435	9.31
70) T o-Xylene	2.315	2.130	1.894	1.892	1.861	2.164	1.722	1.945	1.990	9.78
71) T n-Nonane	1.652	1.463	1.265	1.289	1.228	1.399	1.084	1.200	1.323	13.39
72) T 1,1,2,2-Tetrachlo	0.950	0.931	0.839	0.860	0.839	0.977	0.776	0.894	0.883	7.62
73) S Bromofluorobenzen	0.571	0.566	0.563	0.563	0.577	0.579	0.594	0.595	0.576	2.23
74) T Cumene	3.046	2.701	2.336	2.364	2.307	2.723	2.181	2.456	2.514	11.39
75) T alpha-Pinene	1.405	1.389	1.184	1.219	1.220	1.431	1.152	1.311	1.289	8.49
76) T n-Propylbenzene	3.730	3.286	2.971	3.088	2.984	3.473	2.742	3.012	3.161	10.05
77) T 3-Ethyltoluene	2.856	2.585	2.264	2.204	2.239	2.593	2.105	2.377	2.403	10.55
78) T 4-Ethyltoluene	2.821	2.428	2.122	2.235	2.150	2.576	2.035	2.260	2.328	11.34
79) T 1,3,5-Trimethylbe	2.371	1.981	1.833	1.859	1.835	2.153	1.724	1.953	1.964	10.62
80) T alpha-Methylstyre	1.173	1.018	0.919	0.971	1.006	1.205	0.983	1.135	1.051	9.98
81) T 2-Ethyltoluene	2.866	2.524	2.246	2.299	2.267	2.666	2.132	2.386	2.423	10.14
82) T 1,2,4-Trimethylbe	2.204	2.160	1.885	1.969	1.896	2.217	1.758	1.932	2.003	8.49
83) T n-Decane	1.505	1.419	1.273	1.281	1.242	1.408	1.089	1.199	1.302	10.36
84) T Benzyl Chloride	1.924	1.912	1.669	1.773	1.834	2.197	1.749	1.959	1.877	8.66
85) T 1,3-Dichlorobenze	1.163	0.993	0.903	0.959	0.940	1.131	0.925	1.094	1.013	9.96
86) T 1,4-Dichlorobenze	1.251	1.103	0.995	0.996	0.980	1.192	0.979	1.149	1.081	9.99
87) T sec-Butylbenzene	3.139	2.866	2.554	2.575	2.546	2.985	2.364	2.613	2.705	9.71

436

(#)= Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:26 2009

AD s/16/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.658	2.459	2.338	2.329	2.319	2.712	2.154	2.330	2.412	7.80
89) T 1,2,3-Trimethylbe	2.247	2.205	1.983	1.961	1.936	2.249	1.789	1.951	2.040	8.39
90) T 1,2-Dichlorobenze	1.053	0.935	0.895	0.923	0.908	1.091	0.885	0.997	0.961	8.06
91) T d-Limonene	0.947	0.884	0.819	0.808	0.816	0.953	0.756	0.831	0.852	8.22
92) T 1,2-Dibromo-3-Chl	0.255	0.322	0.281	0.316	0.334	0.407	0.333	0.395	0.330	15.52
93) T n-Undecane	1.637	1.515	1.310	1.387	1.321	1.489	1.157	1.266	1.385	11.15
94) T 1,2,4-Trichlorobe	0.633	0.617	0.569	0.628	0.635	0.782	0.647	0.775	0.661	11.53
95) T Naphthalene	3.212	2.782	2.370	2.515	2.600	3.038	2.466	2.774	2.720	10.71
96) T n-Dodecane	2.008	1.787	1.580	1.604	1.487	1.664	1.312	1.433	1.609	13.47
97) T Hexachlorobutadie	0.508	0.450	0.382	0.370	0.364	0.452	0.378	0.458	0.420	12.69
98) T Cyclohexanone	1.058	0.930	0.839	0.840	0.827	0.975	0.777	0.870	0.889	10.33
99) T tert-Butylbenzene	2.338	1.994	1.824	1.861	1.804	2.116	1.695	1.873	1.938	10.59
100) T n-Butylbenzene	2.495	2.246	2.121	2.16	2.160	2.504	1.975	2.174	2.231	8.20

437

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:26 2009

BA 8/6/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID:

200ng/L Std. ID:
Dilution Factors:

5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)									
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200		
		0.025	0.050	0.025		0.05	0.25	0.125	0.25	0.50	0.1ng	0.2ng	0.5ng	1ng	5ng
Bromoform	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
Styrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
o-Xylene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Nonane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Cumene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
alpha-Pinene	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101		
n-Propylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
3-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
4-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
alpha-Methylstyrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
2-Ethyltoluene	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Decane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Benzyl Chloride	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
1,3-Dichlorobenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
1,4-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
sec-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
p-Isopropyltoluene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
1,2-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
d-Limonene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
chloropropane	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
n-Undecane	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48		0.112	0.224	0.560	1.12	5.60	28.0	56.0	112		
Naphthalene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Dodecane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0		
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Methacrylonitrile	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Cyclohexanone	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0		
tert-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Butylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		

*Enter Information in the Solid Shaded Areas ONLY.

DA 8/11/09

Method Path : J:\MS13\METHODS\
 Method File : R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\06\08060914.D
2	0.2	0	25	J:\MS13\DATA\2009_08\06\08060915.D
3	0.5	1	25	J:\MS13\DATA\2009_08\06\08060916.D
4	1.0	1	25	J:\MS13\DATA\2009_08\06\08060917.D
5	5.0	5	25	J:\MS13\DATA\2009_08\06\08060918.D
6	25	27	25	J:\MS13\DATA\2009_08\06\08060919.D
7	50	54	25	J:\MS13\DATA\2009_08\06\08060920.D
8	100	107	25	J:\MS13\DATA\2009_08\06\08060921.D

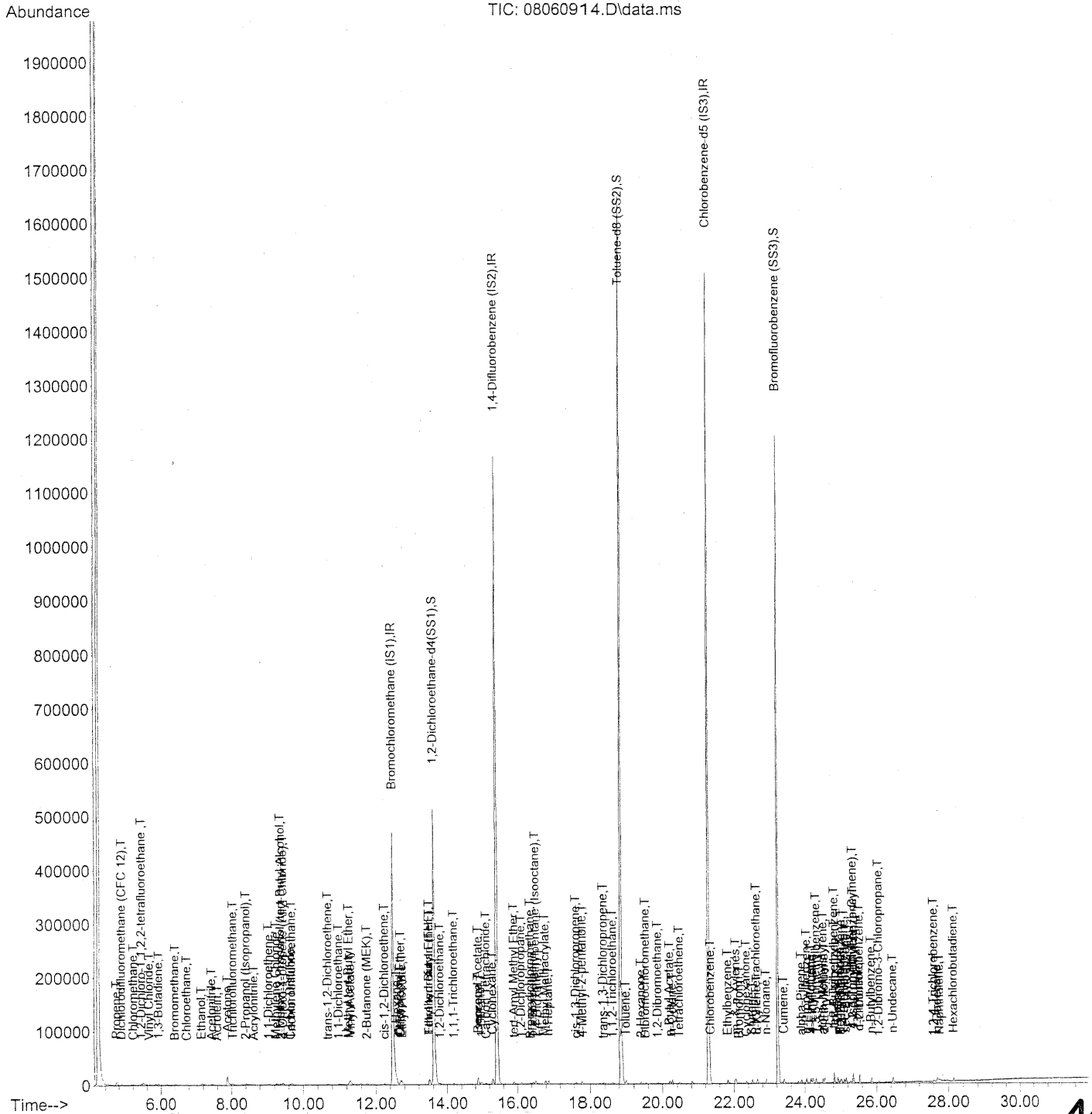
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 06 17:09 2009	Aug 06 13:44 2009	06 Aug 2009 11:55
2	0.2	Aug 06 17:10 2009	Aug 06 13:51 2009	06 Aug 2009 12:36
3	0.5	Aug 06 17:10 2009	Aug 06 13:52 2009	06 Aug 2009 13:17
4	1.0	Aug 06 17:10 2009	Aug 06 14:32 2009	06 Aug 2009 13:57
5	5.0	Aug 06 17:10 2009	Aug 06 15:06 2009	06 Aug 2009 14:38
6	25	Aug 06 17:11 2009	Aug 06 16:11 2009	06 Aug 2009 15:18
7	50	Aug 06 17:13 2009	Aug 06 17:00 2009	06 Aug 2009 15:59
8	100	Aug 06 17:14 2009	Aug 06 17:08 2009	06 Aug 2009 16:39

R13080609.M Thu Aug 06 17:33:51 2009

DA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	255549	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1302832	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	644252	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	557049	23.882	ng	0.00
Spiked Amount	25.000		Recovery	=	95.52%	
57) Toluene-d8 (SS2)	18.85	98	1414545	25.331	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	
73) Bromofluorobenzene (SS3)	23.24	174	367818	25.794	ng	0.00
Spiked Amount	25.000		Recovery	=	103.16%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	2278m	0.115	ng	
3) Dichlorodifluoromethan...	4.88	85	3433	0.104	ng	# 94
4) Chloromethane	5.22	50	2007	0.097	ng	65
5) 1,2-Dichloro-1,1,2,2-t...	5.44	135	1275	0.099	ng	# 57
6) Vinyl Chloride	5.66	62	1780	0.088	ng	74
7) 1,3-Butadiene	5.93	54	1480	0.102	ng	# 57
8) Bromomethane	6.41	94	1318	0.141	ng	87
9) Chloroethane	6.74	64	1110	0.099	ng	# 41
10) Ethanol	7.16	45	7147	0.588	ng	69
11) Acetonitrile	7.45	41	4069	0.095	ng	91
12) Acrolein	7.61	56	811	0.069	ng	# 31
13) Acetone	7.89	58	11564	0.833	ng	96
14) Trichlorofluoromethane	8.05	101	2930	0.103	ng	93
15) 2-Propanol (Isopropanol)	8.41	45	10270	0.224	ng	74
16) Acrylonitrile	8.64	53	1328m	0.066	ng	
17) 1,1-Dichloroethene	9.05	96	1235	0.096	ng	87
18) 2-Methyl-2-Propanol (t...	9.38	59	9529	0.242	ng	# 74
19) Methylene Chloride	9.25	84	1883	0.126	ng	97
20) 3-Chloro-1-propene (Al...	9.45	41	3293m	0.136	ng	
21) Trichlorotrifluoroethane	9.69	151	962	0.092	ng	# 76
22) Carbon Disulfide	9.66	76	5999	0.117	ng	# 74
23) trans-1,2-Dichloroethene	10.68	61	2002	0.090	ng	97
24) 1,1-Dichloroethane	10.98	63	2893	0.104	ng	89
25) Methyl tert-Butyl Ether	11.26	73	4584	0.102	ng	94
26) Vinyl Acetate	11.31	86	1182	0.392	ng	# 1
27) 2-Butanone (MEK)	11.76	72	1112	0.111	ng	# 28
28) cis-1,2-Dichloroethene	12.25	61	2132	0.099	ng	90
29) Diisopropyl Ether	12.70	87	1108	0.091	ng	# 1
30) Ethyl Acetate	12.74	61	860	0.165	ng	# 73
31) n-Hexane	12.59	57	3082	0.112	ng	70

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	2517	0.100	ng	93
34) Tetrahydrofuran (THF)	13.49	72	2071	0.175	ng #	78
35) Ethyl tert-Butyl Ether	13.50	87	1839	0.099	ng #	87
36) 1,2-Dichloroethane	13.80	62	2282	0.103	ng #	62
38) 1,1,1-Trichloroethane	14.19	97	2700	0.112	ng	89
39) Isopropyl Acetate	14.88	61	2167	0.217	ng #	92
40) 1-Butanol	14.97	56	4795	0.282	ng #	79
41) Benzene	14.88	78	7680	0.120	ng	96
42) Carbon Tetrachloride	15.11	117	1945	0.096	ng	94
43) Cyclohexane	15.30	84	5207	0.231	ng	98
44) tert-Amyl Methyl Ether	15.91	73	5009	0.107	ng	91
45) 1,2-Dichloropropane	16.11	63	1549	0.100	ng	99
46) Bromodichloromethane	16.37	83	2109	0.107	ng	98
47) Trichloroethene	16.45	130	1409	0.106	ng	98
48) 1,4-Dioxane	16.57	88	1174	0.103	ng #	56
49) 2,2,4-Trimethylpentane...	16.52	57	7907	0.112	ng	98
50) Methyl Methacrylate	16.79	100	927	0.171	ng #	35
51) n-Heptane	16.89	71	1821	0.109	ng #	88
52) cis-1,3-Dichloropropene	17.66	75	2536	0.105	ng	86
53) 4-Methyl-2-pentanone	17.81	58	1504	0.104	ng	85
54) trans-1,3-Dichloropropene	18.36	75	2818	0.128	ng	86
55) 1,1,2-Trichloroethane	18.61	97	1358	0.101	ng	92
58) Toluene	18.98	91	7232	0.125	ng	97
59) 2-Hexanone	19.41	43	4623	0.119	ng	91
60) Dibromochloromethane	19.53	129	1445	0.107	ng	97
61) 1,2-Dibromoethane	19.87	107	1548	0.111	ng	98
62) n-Butyl Acetate	20.21	43	5583	0.127	ng	97
63) n-Octane	20.28	57	1545	0.106	ng	95
64) Tetrachloroethene	20.47	166	1267	0.096	ng	98
65) Chlorobenzene	21.35	112	4424	0.127	ng	91
66) Ethylbenzene	21.82	91	7796	0.119	ng	99
67) m- & p-Xylenes	22.06	91	12746	0.242	ng #	30
68) Bromoform	22.15	173	892	0.081	ng	95
69) Styrene	22.51	104	4388	0.119	ng	97
70) o-Xylene	22.66	91	6325	0.119	ng	98
71) n-Nonane	22.91	43	4513	0.122	ng	93
72) 1,1,2,2-Tetrachloroethane	22.64	83	2620	0.112	ng	100
74) Cumene	23.41	105	8086	0.125	ng	97
75) alpha-Pinene	23.91	93	3657	0.107	ng	94
76) n-Propylbenzene	24.05	91	9900	0.119	ng	97
77) 3-Ethyltoluene	24.18	105	8022	0.131	ng	93
78) 4-Ethyltoluene	24.23	105	7924	0.128	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	6660	0.126	ng	97

443

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

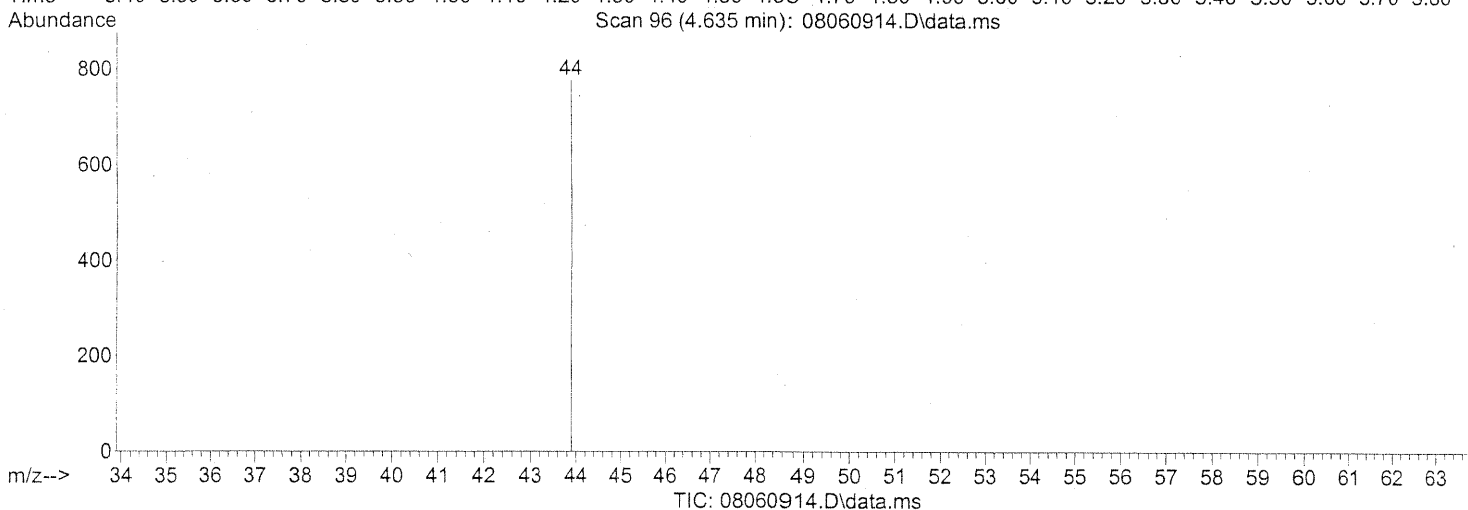
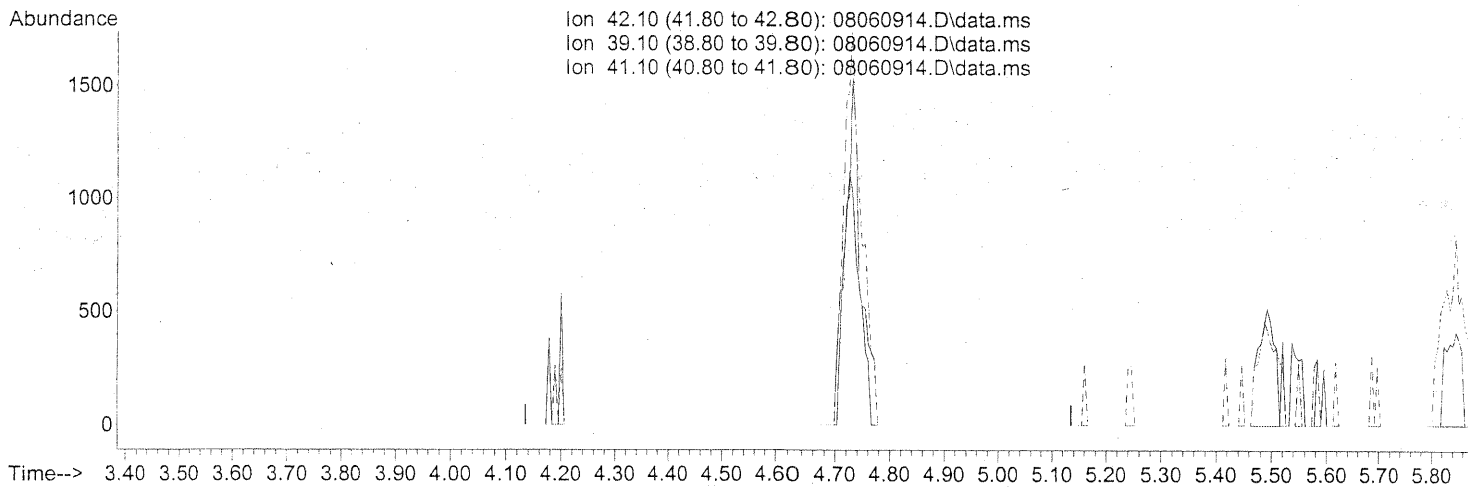
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	3235	0.121	ng	93
81) 2-Ethyltoluene	24.56	105	7755	0.121	ng	95
82) 1,2,4-Trimethylbenzene	24.83	105	6020	0.114	ng	98
83) n-Decane	24.93	57	4190	0.120	ng	96
84) Benzyl Chloride	25.01	91	5455	0.120	ng	96
85) 1,3-Dichlorobenzene	25.03	146	3266	0.129	ng	95
86) 1,4-Dichlorobenzene	25.11	146	3418	0.127	ng	96
87) sec-Butylbenzene	25.17	105	8575	0.121	ng	94
88) 4-Isopropyltoluene (p-...	25.35	119	7056	0.112	ng	94
89) 1,2,3-Trimethylbenzene	25.36	105	6195	0.115	ng	95
90) 1,2-Dichlorobenzene	25.53	146	2877	0.118	ng	94
91) d-Limonene	25.53	68	2659	0.116	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	724	0.093	ng #	73
93) n-Undecane	26.46	57	4598	0.129	ng	92
94) 1,2,4-Trichlorobenzene	27.61	180	1826	0.118	ng #	75
95) Naphthalene	27.77	128	8775	0.145	ng	72
96) n-Dodecane	27.71	57	5122m	0.135	ng	
97) Hexachlorobutadiene	28.15	225	1439	0.145	ng	94
98) Cyclohexanone	22.35	55	2671	0.101	ng	91
99) tert-Butylbenzene	24.83	119	6387	0.126	ng	92
100) n-Butylbenzene	25.86	91	7008	0.122	ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)

4.635min (-4.635) 0.00ng

response 0

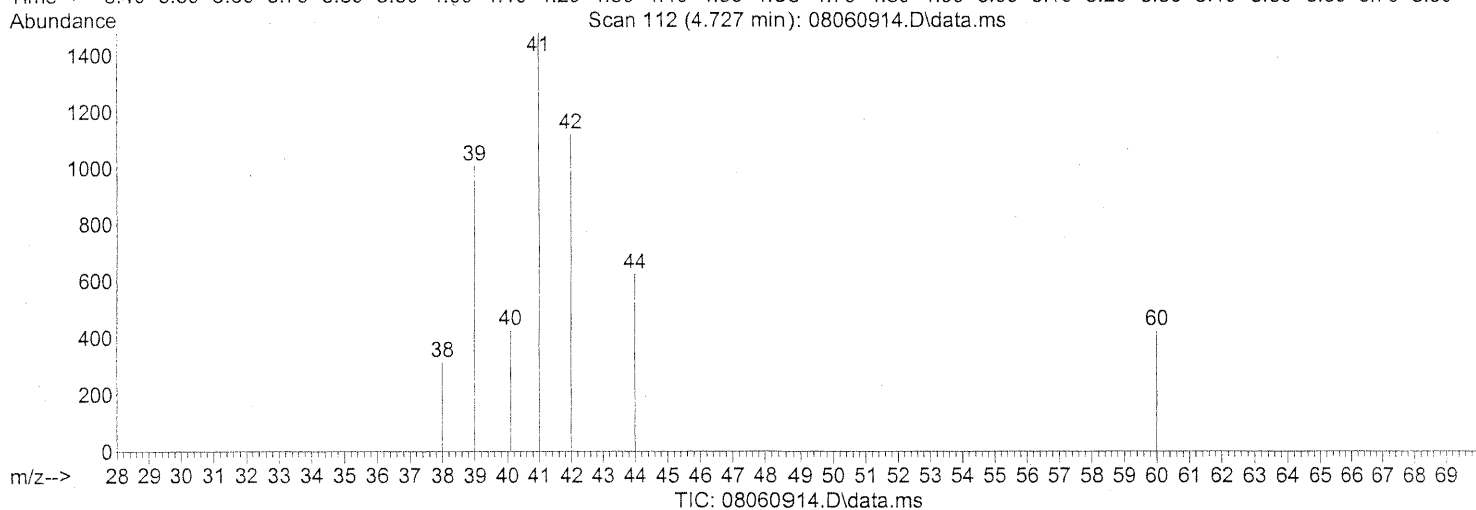
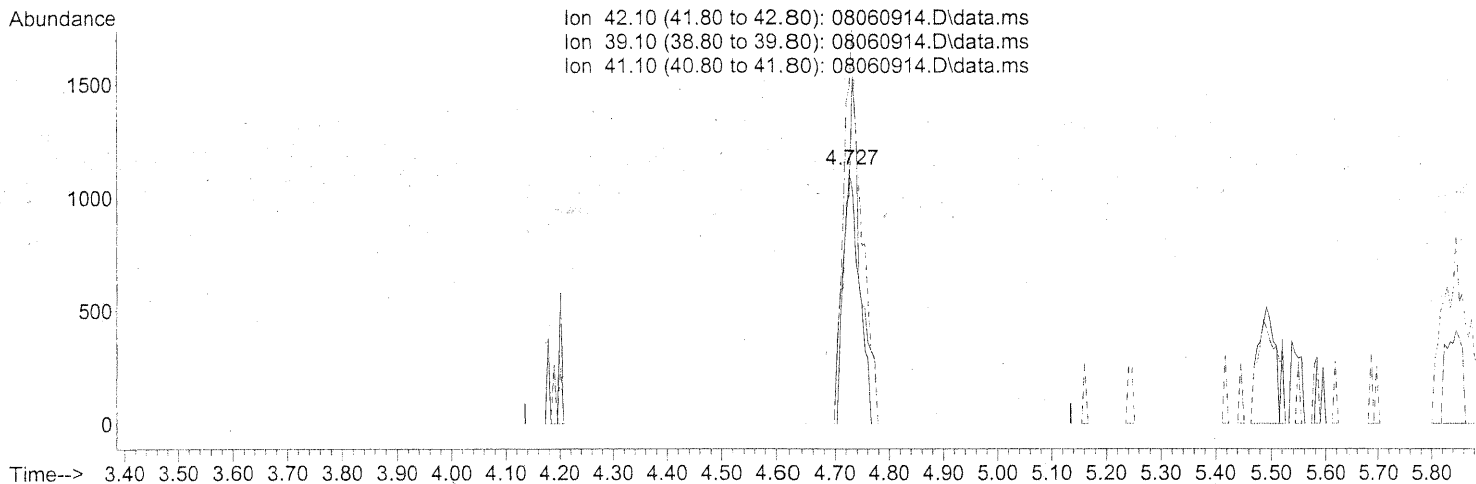
Ion	Exp%	Act%
42.10	100	0.00
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

HP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.727min (+0.092) 0.12ng m

response 2278

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

HP-7 IC

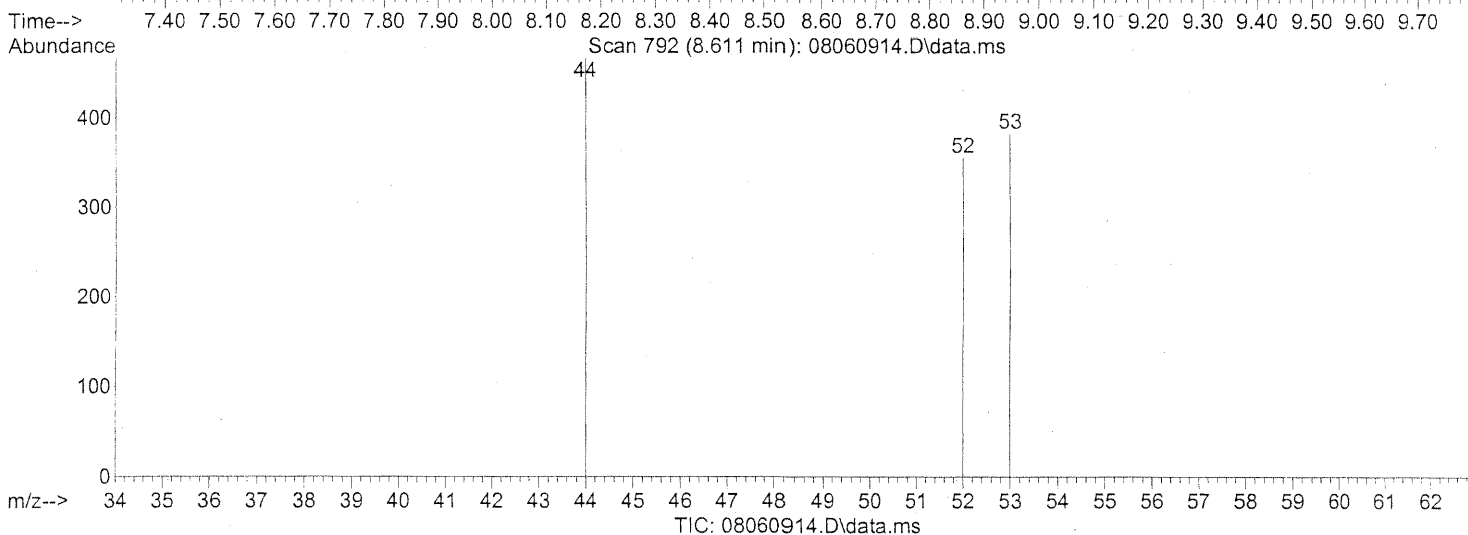
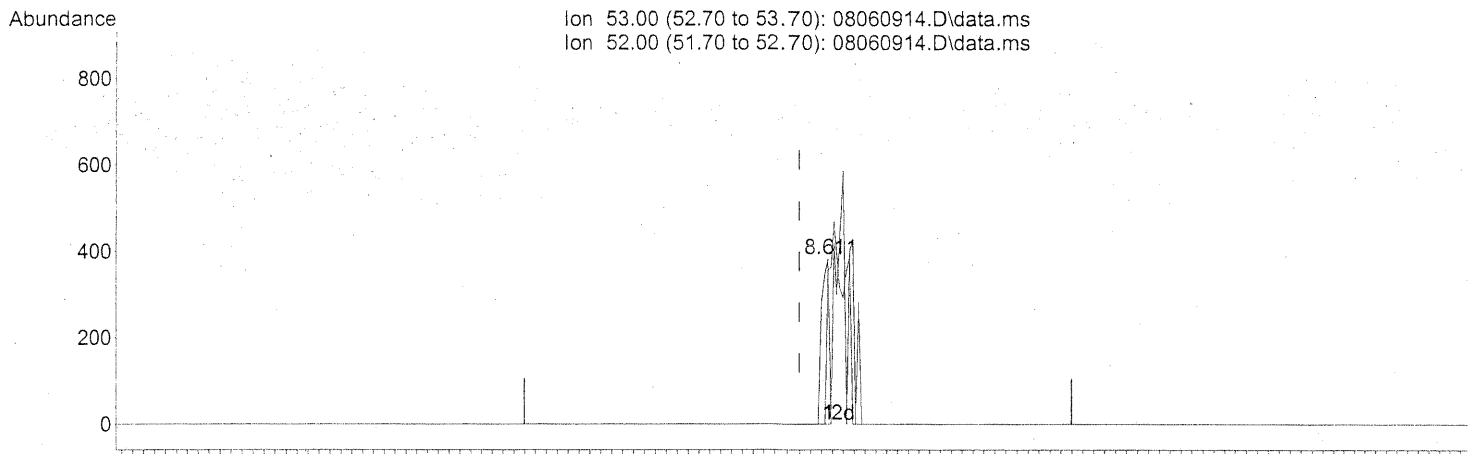
WA 8/6/09

WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.611min (+0.052) 0.02ng

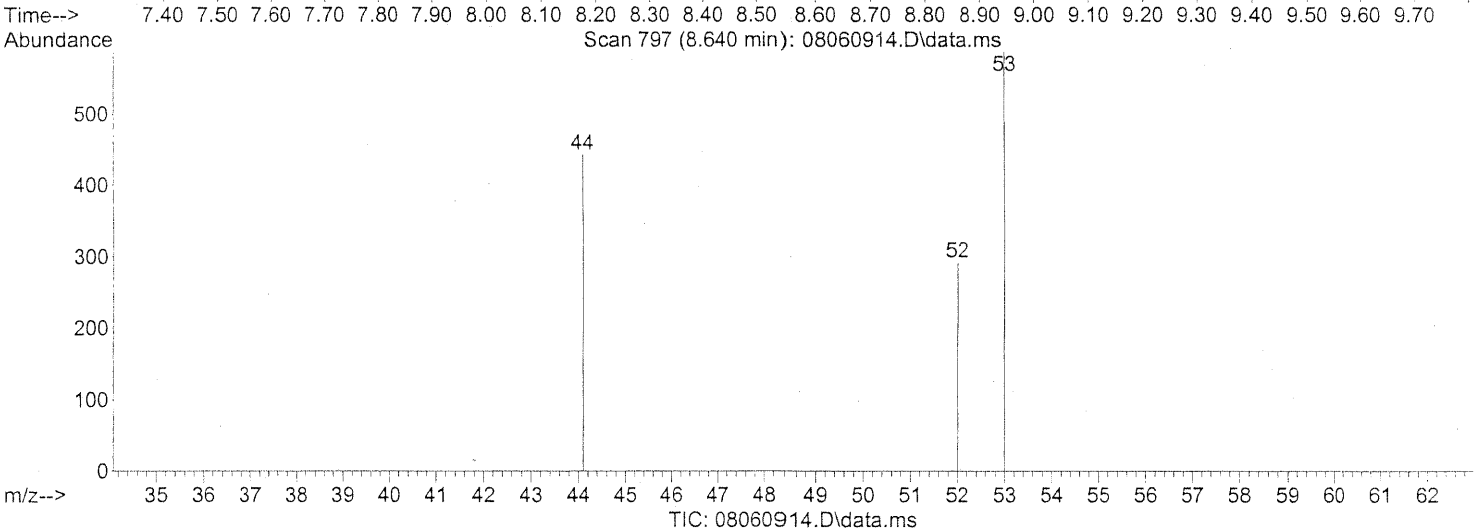
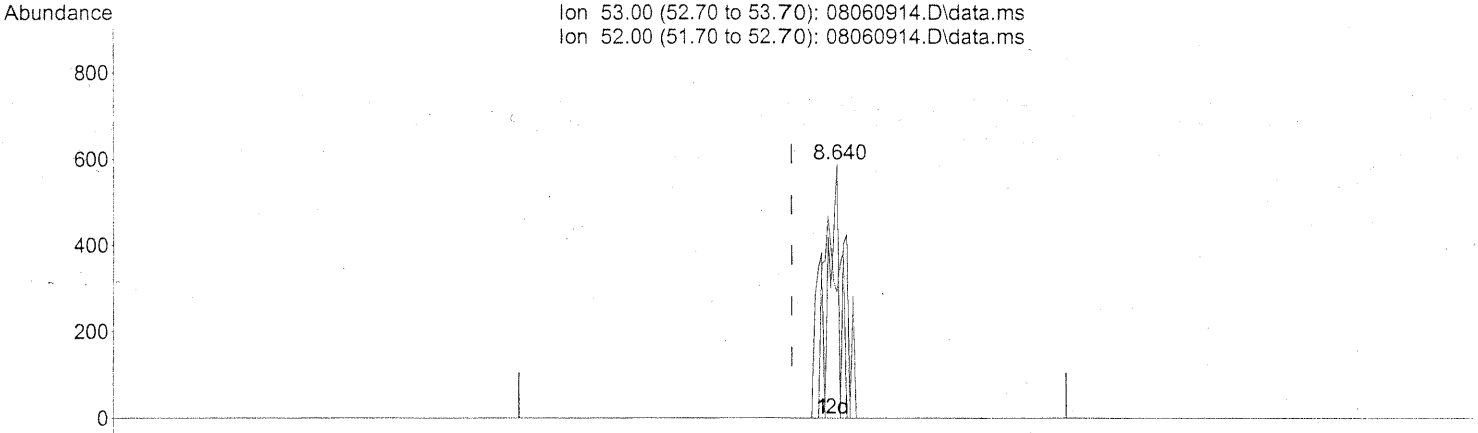
response 347

MP

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	289.91#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.640min (+0.080) 0.07ng m

response 1328

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	75.75
0.00	0.00	0.00
0.00	0.00	0.00

HP -> IC

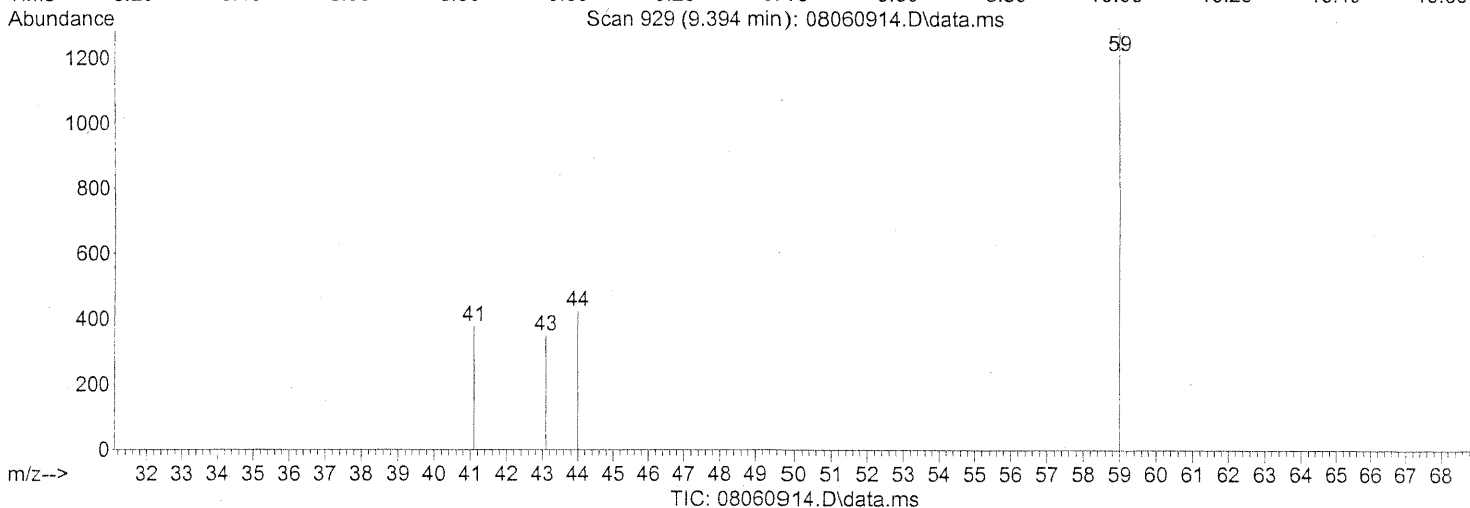
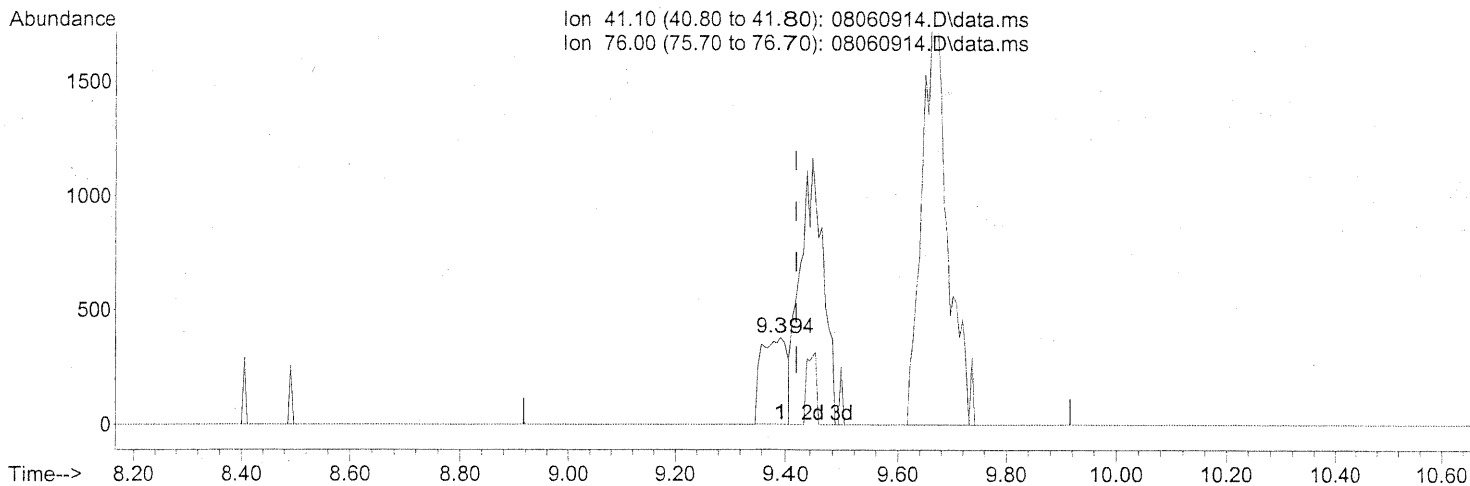
ISA 8/6/09

UH 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.394min (-0.023) 0.05ng

response 1147

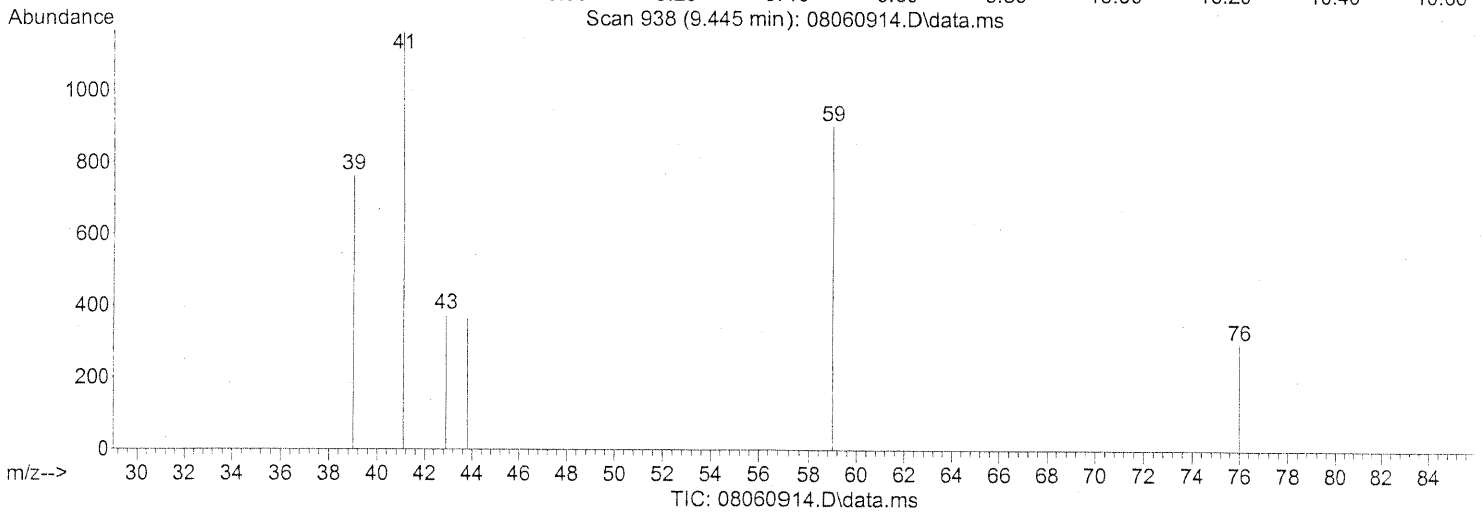
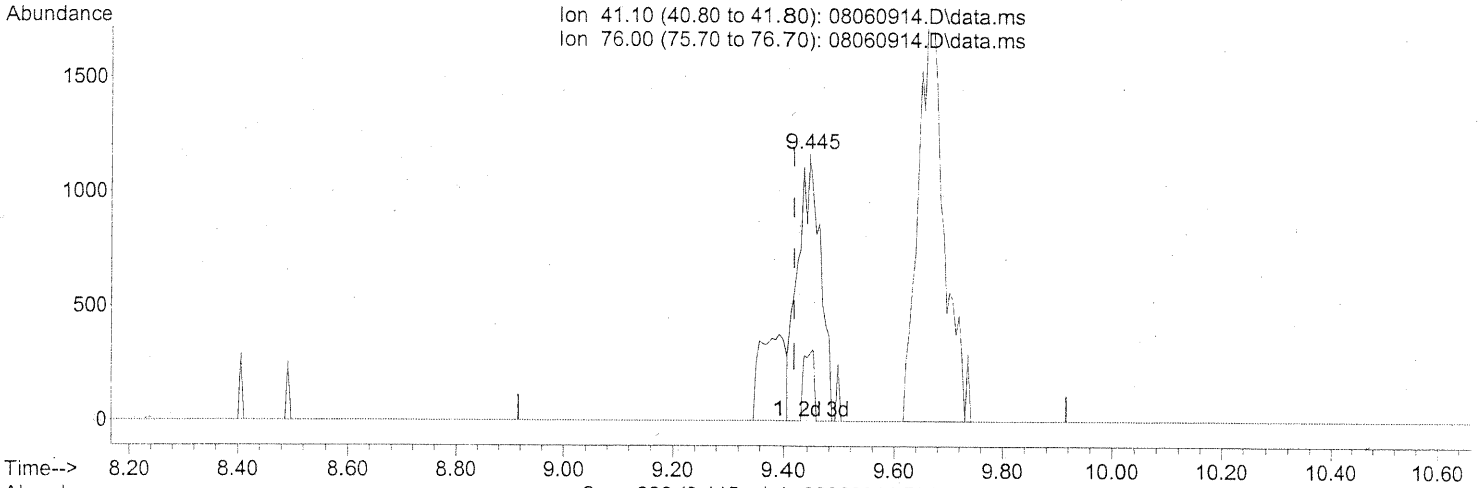
IPI

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.445min (+0.029) 0.14ng m

response 3293

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

IPI -> IC

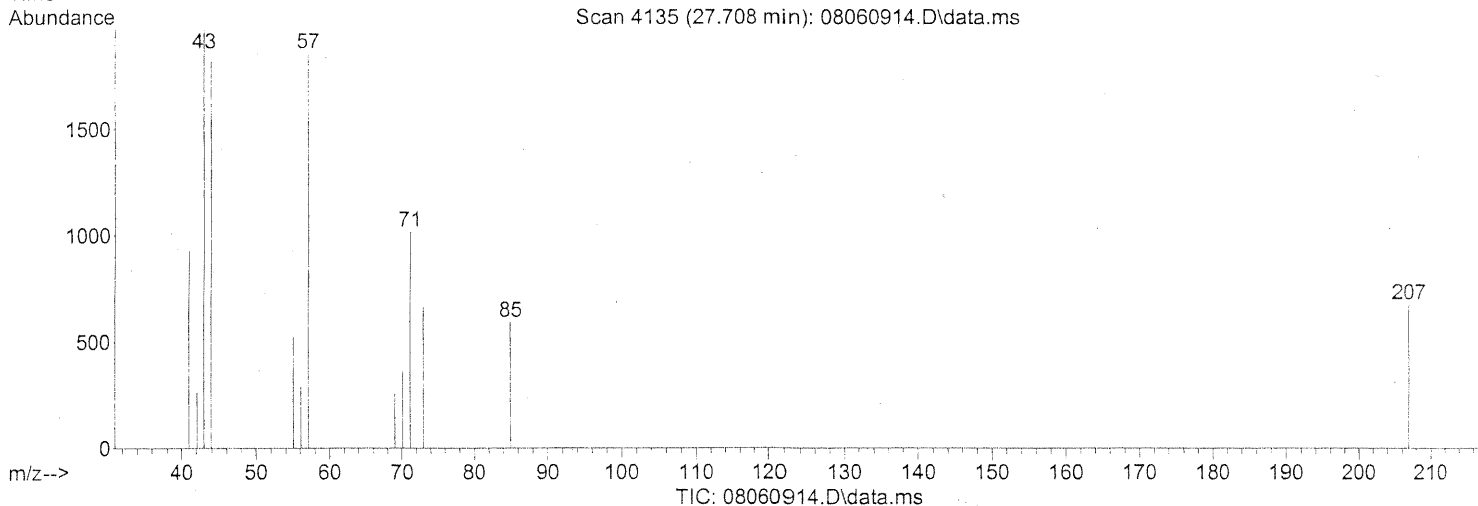
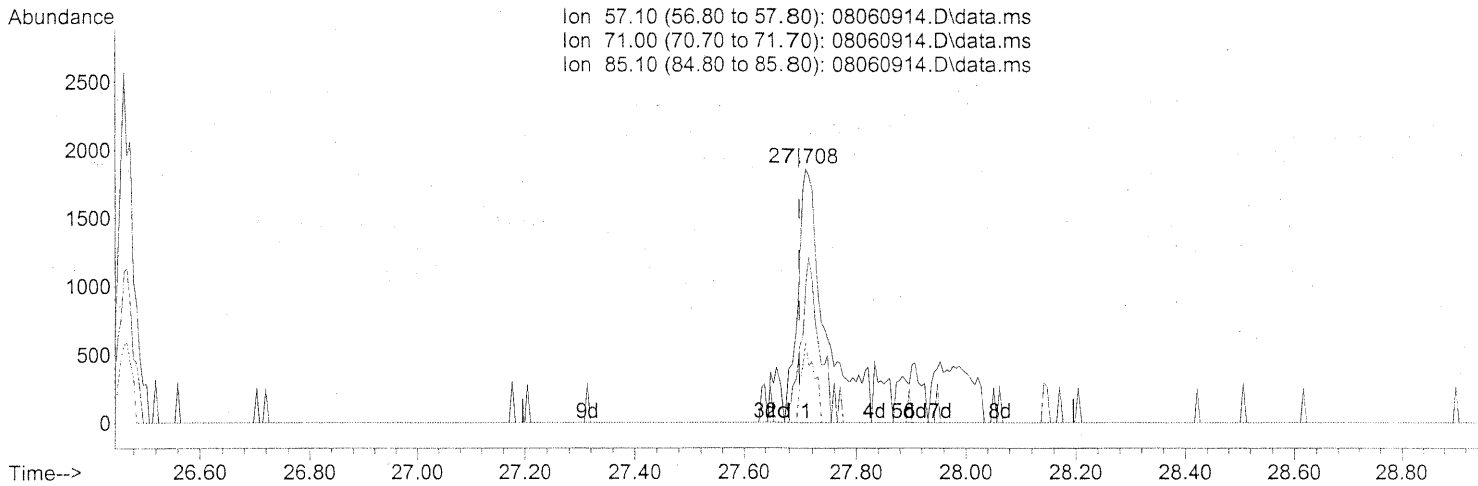
DA 8/6/09

UH 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)
27.708min (+0.012) 0.17ng

response 6461

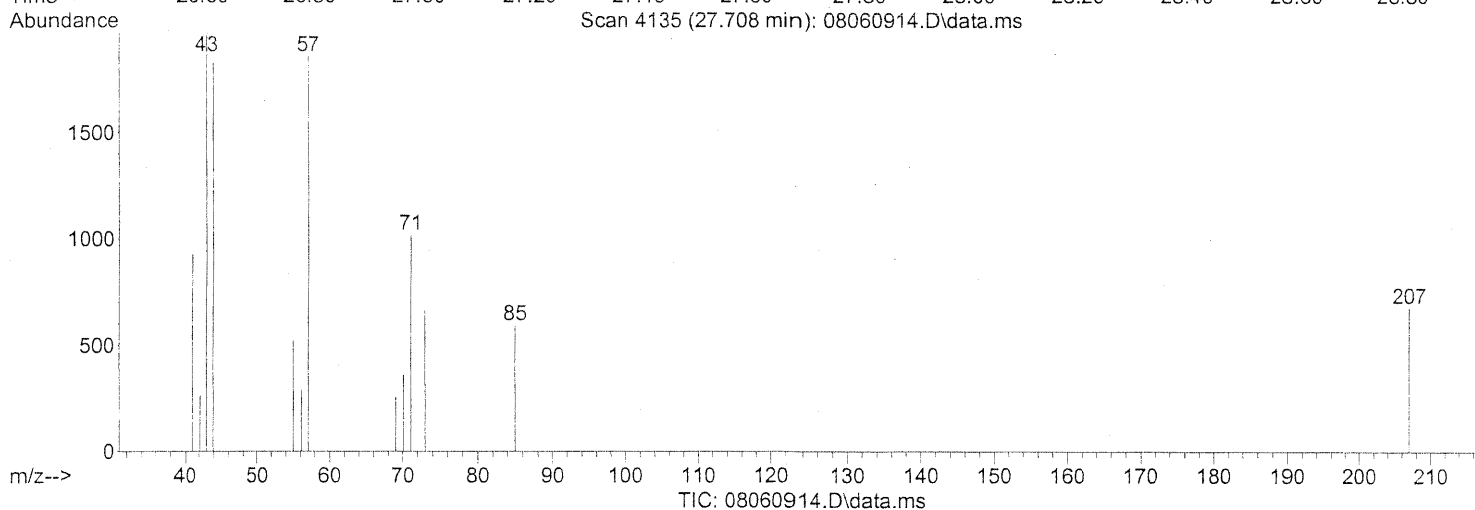
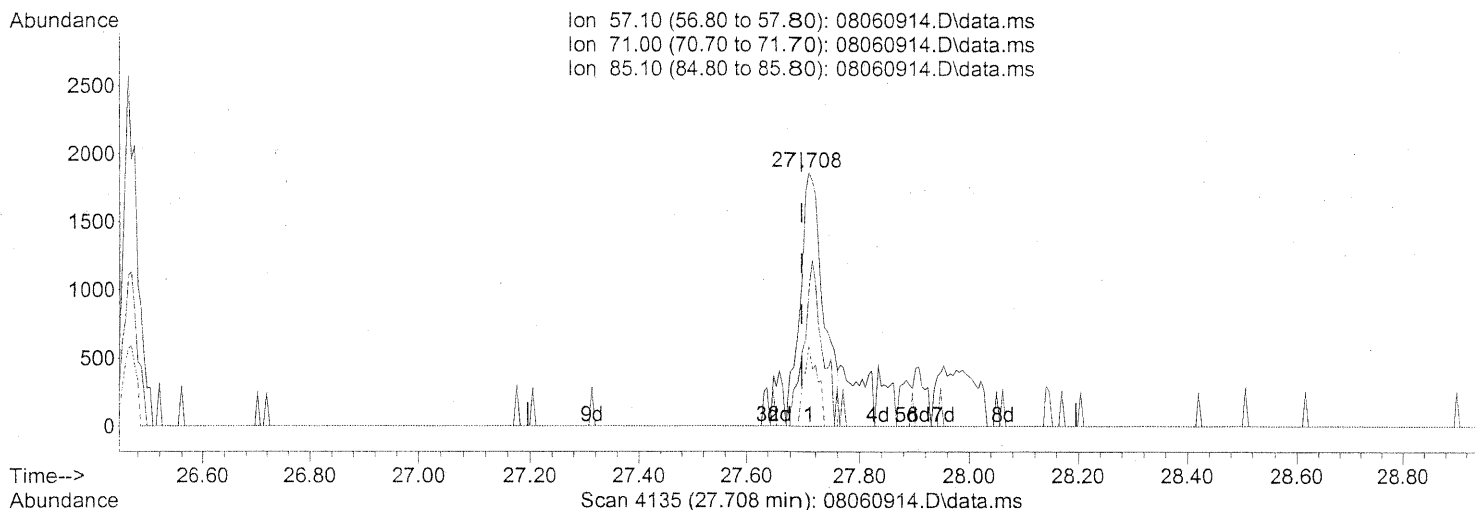
PT

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	44.30
85.10	31.00	15.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)
27.708min (+0.012) 0.14ng m
response 5122

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	55.88
85.10	31.00	18.96
0.00	0.00	0.00

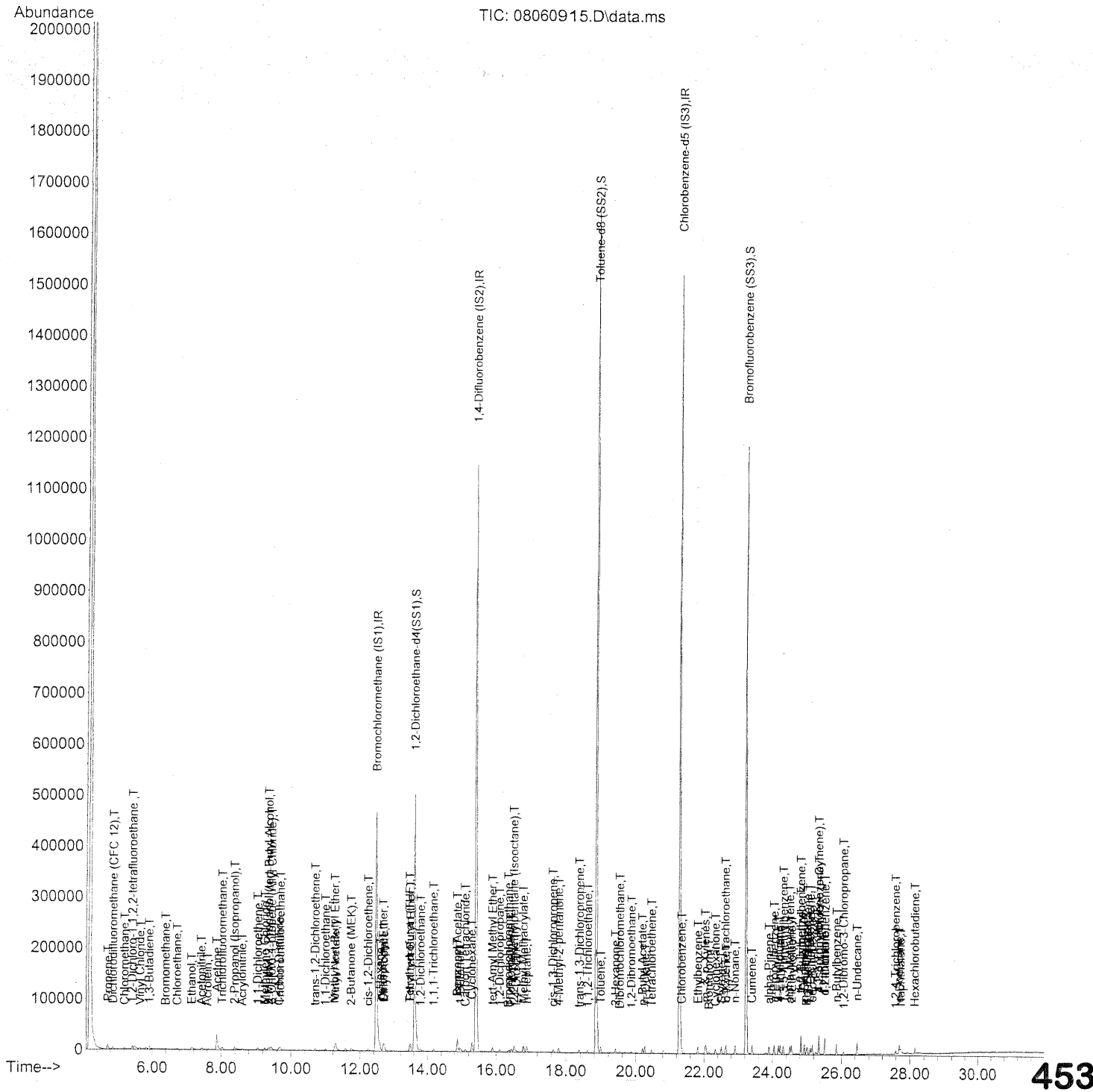
PT -> IC

WA 8/6/09

WA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	252357	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1287515	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	648408	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	555188	24.104	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.40%	
57) Toluene-d8 (SS2)	18.85	98	1423881	25.335	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	
73) Bromofluorobenzene (SS3)	23.24	174	367233	25.587	ng	0.00
Spiked Amount	25.000		Recovery	=	102.36%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	4419	0.226	ng	95
3) Dichlorodifluoromethan...	4.88	85	6369	0.196	ng	# 87
4) Chloromethane	5.21	50	4086	0.199	ng	83
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2817	0.221	ng	91
6) Vinyl Chloride	5.65	62	3579	0.178	ng	98
7) 1,3-Butadiene	5.92	54	3131	0.218	ng	# 84
8) Bromomethane	6.39	94	2208	0.240	ng	96
9) Chloroethane	6.73	64	2365	0.214	ng	76
10) Ethanol	7.14	45	12938	1.079	ng	90
11) Acetonitrile	7.43	41	8087	0.191	ng	98
12) Acrolein	7.61	56	1996	0.172	ng	97
13) Acetone	7.88	58	19631	1.432	ng	90
14) Trichlorofluoromethane	8.03	101	5515	0.196	ng	100
15) 2-Propanol (Isopropanol)	8.39	45	18213	0.402	ng	92
16) Acrylonitrile	8.61	53	4154	0.208	ng	# 68
17) 1,1-Dichloroethene	9.06	96	2579	0.203	ng	95
18) 2-Methyl-2-Propanol (t...	9.36	59	16711	0.430	ng	# 72
19) Methylene Chloride	9.26	84	3503	0.237	ng	87
20) 3-Chloro-1-propene (Al...	9.45	41	6518	0.274	ng	75
21) Trichlorotrifluoroethane	9.70	151	2010	0.194	ng	88
22) Carbon Disulfide	9.66	76	11291	0.222	ng	89
23) trans-1,2-Dichloroethene	10.69	61	4685	0.213	ng	98
24) 1,1-Dichloroethane	10.99	63	5901	0.215	ng	94
25) Methyl tert-Butyl Ether	11.26	73	8904	0.200	ng	96
26) Vinyl Acetate	11.29	86	2463	0.826	ng	# 18
27) 2-Butanone (MEK)	11.74	72	2236	0.225	ng	# 50
28) cis-1,2-Dichloroethene	12.24	61	4357	0.205	ng	93
29) Diisopropyl Ether	12.69	87	2973	0.247	ng	# 1
30) Ethyl Acetate	12.72	61	2207	0.428	ng	92
31) n-Hexane	12.59	57	6299	0.232	ng	84

454

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	4817	0.193	ng	98
34) Tetrahydrofuran (THF)	13.47	72	3093	0.264	ng #	79
35) Ethyl tert-Butyl Ether	13.50	87	3408	0.185	ng	93
36) 1,2-Dichloroethane	13.80	62	4457	0.203	ng	93
38) 1,1,1-Trichloroethane	14.18	97	4737	0.198	ng	94
39) Isopropyl Acetate	14.88	61	4379	0.444	ng #	93
40) 1-Butanol	14.96	56	8215	0.489	ng	83
41) Benzene	14.87	78	14131	0.224	ng	100
42) Carbon Tetrachloride	15.11	117	3903	0.195	ng	90
43) Cyclohexane	15.30	84	9304	0.418	ng	95
44) tert-Amyl Methyl Ether	15.90	73	9698	0.210	ng	97
45) 1,2-Dichloropropane	16.11	63	3093	0.202	ng	90
46) Bromodichloromethane	16.37	83	4318	0.222	ng	99
47) Trichloroethene	16.43	130	2706	0.206	ng	96
48) 1,4-Dioxane	16.59	88	2311	0.204	ng	80
49) 2,2,4-Trimethylpentane...	16.52	57	15224	0.219	ng	98
50) Methyl Methacrylate	16.80	100	2319	0.433	ng #	89
51) n-Heptane	16.89	71	3376	0.205	ng	94
52) cis-1,3-Dichloropropene	17.65	75	4783	0.201	ng	95
53) 4-Methyl-2-pentanone	17.81	58	3120	0.219	ng	83
54) trans-1,3-Dichloropropene	18.37	75	4944	0.227	ng	98
55) 1,1,2-Trichloroethane	18.61	97	2714	0.205	ng	97
58) Toluene	18.98	91	12787	0.220	ng	99
59) 2-Hexanone	19.41	43	8414	0.215	ng	94
60) Dibromochloromethane	19.53	129	2958	0.217	ng	97
61) 1,2-Dibromoethane	19.87	107	3012	0.214	ng	96
62) n-Butyl Acetate	20.20	43	10164	0.229	ng	95
63) n-Octane	20.28	57	3172	0.216	ng	90
64) Tetrachloroethene	20.47	166	2555	0.193	ng	91
65) Chlorobenzene	21.35	112	7635	0.217	ng	94
66) Ethylbenzene	21.82	91	14159	0.215	ng	100
67) m- & p-Xylenes	22.04	91	23298	0.439	ng #	30
68) Bromoform	22.15	173	2052	0.184	ng	92
69) Styrene	22.51	104	8110	0.219	ng	96
70) o-Xylene	22.65	91	11714	0.220	ng	99
71) n-Nonane	22.91	43	8045	0.216	ng	83
72) 1,1,2,2-Tetrachloroethane	22.63	83	5167	0.220	ng	91
74) Cumene	23.41	105	14433	0.222	ng	97
75) alpha-Pinene	23.91	93	7275	0.211	ng	82
76) n-Propylbenzene	24.05	91	17557	0.210	ng	99
77) 3-Ethyltoluene	24.18	105	14616	0.237	ng	95
78) 4-Ethyltoluene	24.23	105	13728	0.220	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	11202	0.210	ng	98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

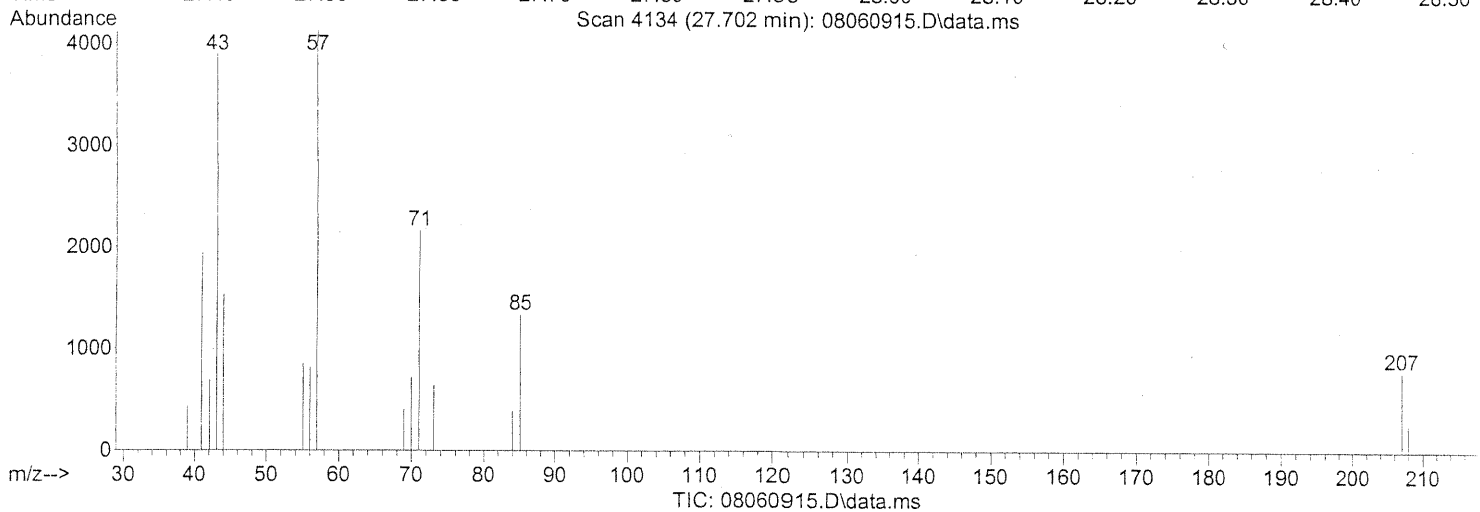
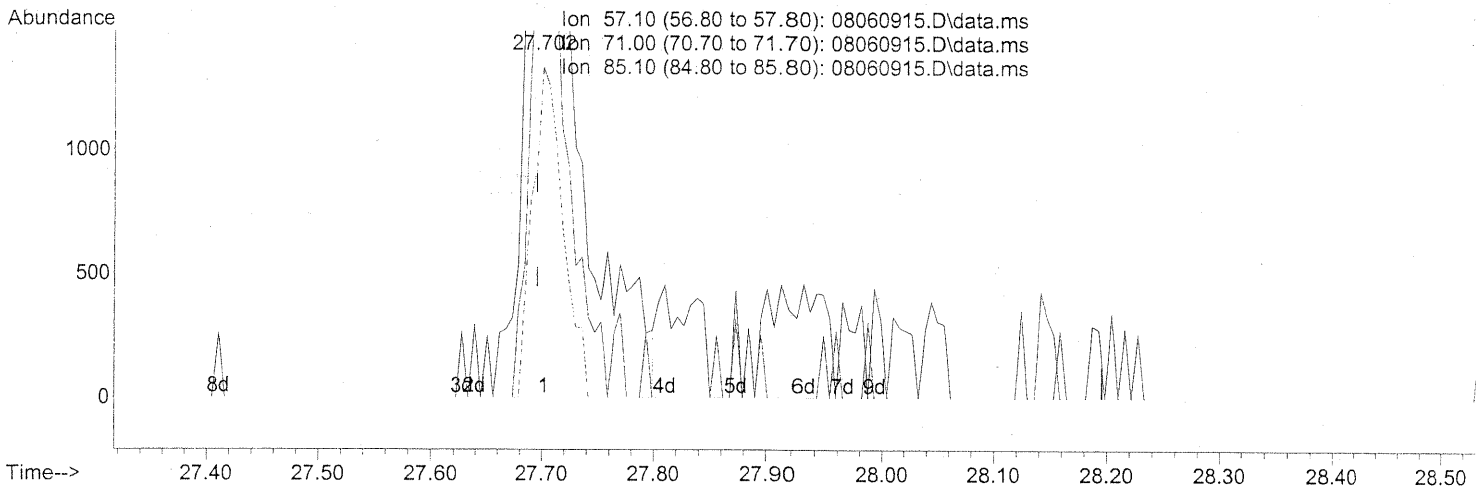
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	5651	0.210	ng	99
81) 2-Ethyltoluene	24.57	105	13747	0.213	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	11876	0.224	ng	98
83) n-Decane	24.93	57	7948	0.226	ng	95
84) Benzyl Chloride	25.00	91	10911	0.238	ng	97
85) 1,3-Dichlorobenzene	25.03	146	5614	0.221	ng	98
86) 1,4-Dichlorobenzene	25.11	146	6064	0.225	ng	94
87) sec-Butylbenzene	25.17	105	15761	0.221	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	13140	0.207	ng	95
89) 1,2,3-Trimethylbenzene	25.36	105	12238	0.227	ng	97
90) 1,2-Dichlorobenzene	25.53	146	5142	0.209	ng	95
91) d-Limonene	25.53	68	5001	0.217	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1840	0.234	ng	93
93) n-Undecane	26.46	57	8565	0.238	ng	94
94) 1,2,4-Trichlorobenzene	27.58	180	3584	0.231	ng	# 89
95) Naphthalene	27.74	128	15295	0.251	ng	84
96) n-Dodecane	27.70	57	9176m	0.241	ng	
97) Hexachlorobutadiene	28.14	225	2566	0.257	ng	96
98) Cyclohexanone	22.34	55	4726	0.178	ng	94
99) tert-Butylbenzene	24.83	119	10963	0.214	ng	100
100) n-Butylbenzene	25.87	91	12700	0.219	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060915.D
Acq On : 6 Aug 2009 12:36
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)
27.702min (+0.006) 0.27ng

response 10324

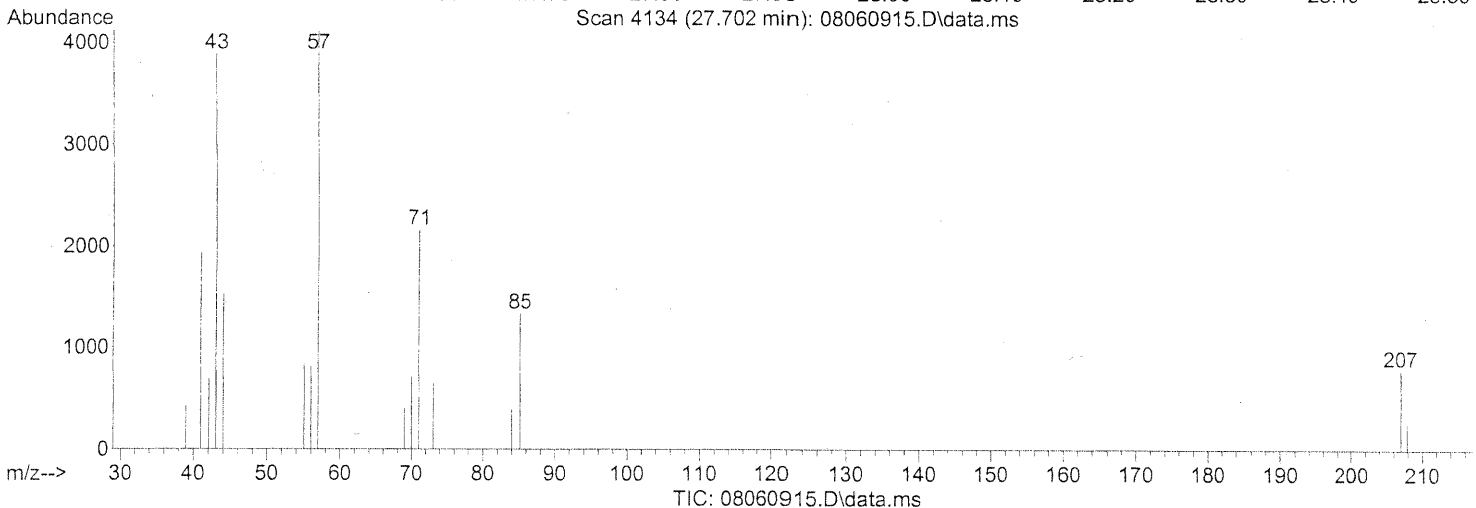
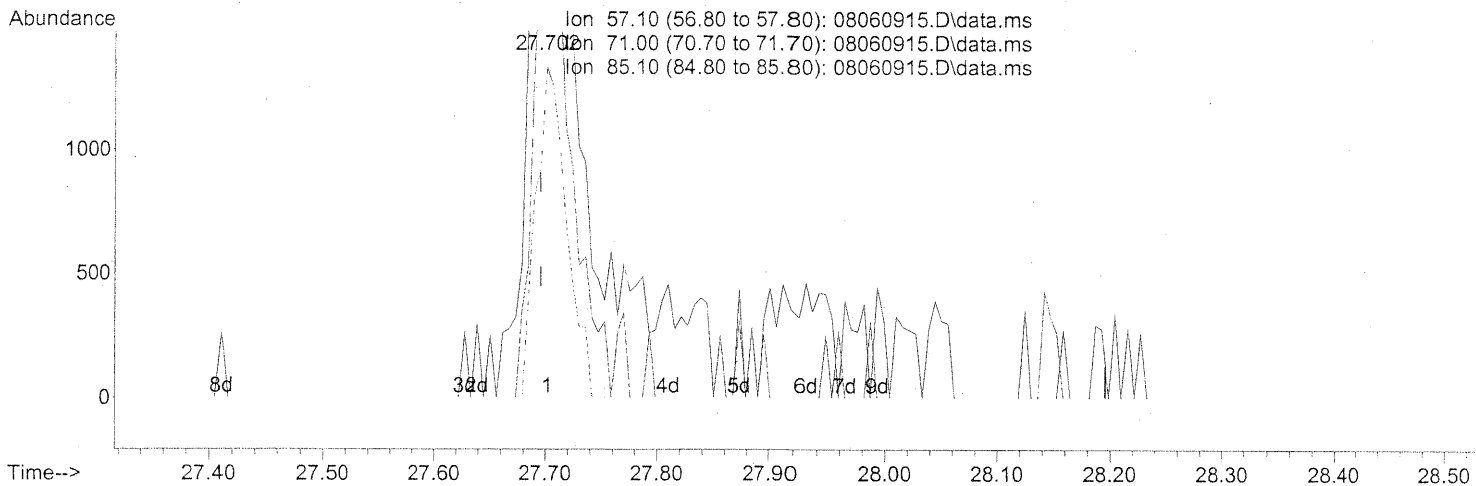
PT

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	48.39
85.10	31.00	24.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)

27.702min (+0.006) 0.24ng m

response 9176

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	54.45
85.10	31.00	27.86
0.00	0.00	0.00

PT → IC

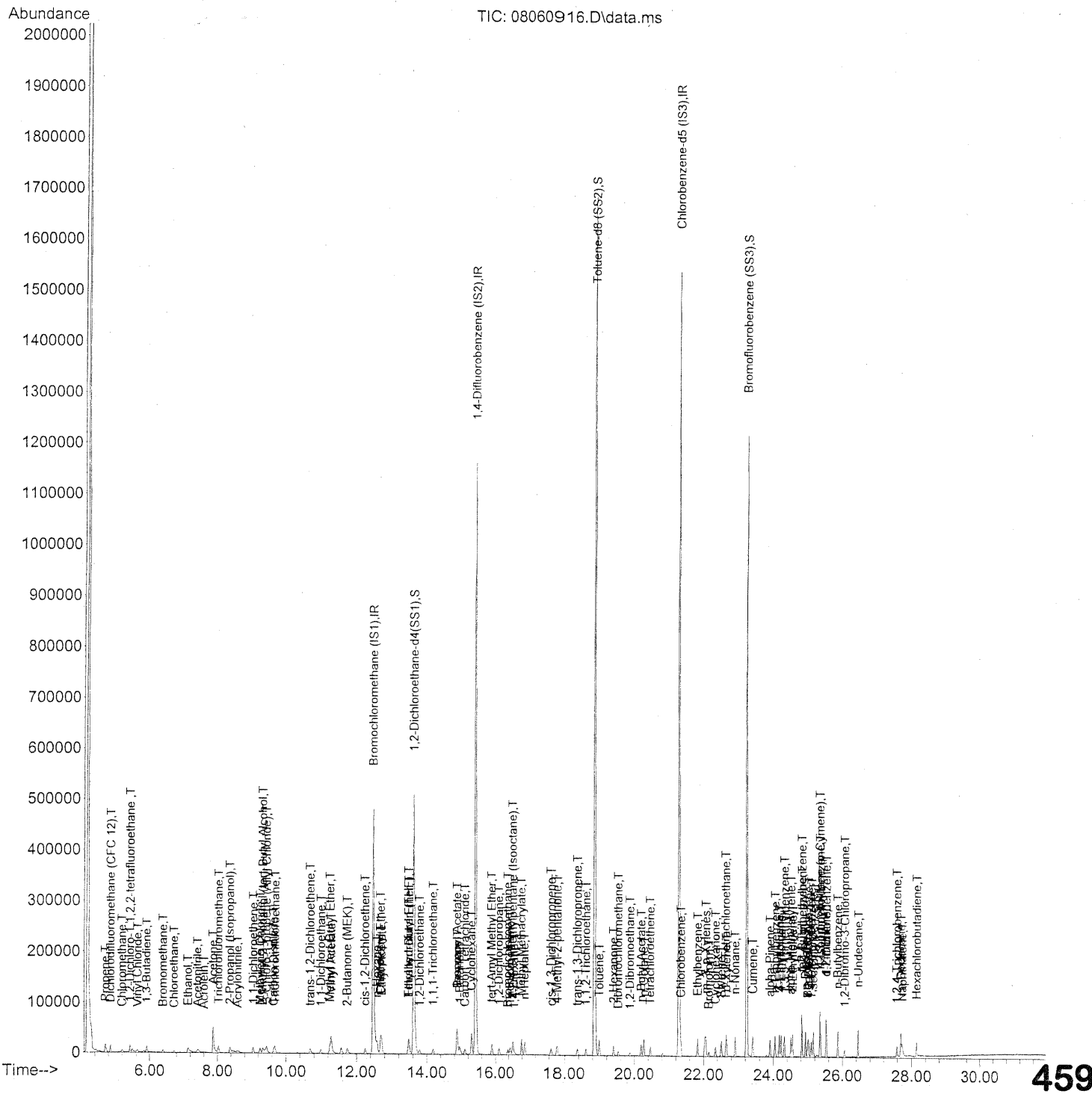
DA 8/6/09

UA 8/11/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060916.D
Acq On : 6 Aug 2009 13:17
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	251360	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1297306	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	659325	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	555033	24.193	ng	0.00
Spiked Amount	25.000		Recovery	=	96.76%	
57) Toluene-d8 (SS2)	18.85	98	1438185	25.165	ng	0.00
Spiked Amount	25.000		Recovery	=	100.68%	
73) Bromofluorobenzene (SS3)	23.24	174	371243	25.439	ng	0.00
Spiked Amount	25.000		Recovery	=	101.76%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	8216	0.422	ng	95
3) Dichlorodifluoromethan...	4.86	85	14734	0.455	ng	97
4) Chloromethane	5.20	50	9411	0.460	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	6371	0.503	ng	100
6) Vinyl Chloride	5.64	62	8565	0.428	ng	99
7) 1,3-Butadiene	5.91	54	7445	0.520	ng	95
8) Bromomethane	6.40	94	5266	0.574	ng	94
9) Chloroethane	6.73	64	4665	0.424	ng	97
10) Ethanol	7.13	45	26864	2.249	ng	95
11) Acetonitrile	7.42	41	16894	0.401	ng	99
12) Acrolein	7.61	56	4162	0.360	ng	96
13) Acetone	7.87	58	32266	2.363	ng	95
14) Trichlorofluoromethane	8.03	101	13358	0.476	ng	98
15) 2-Propanol (Isopropanol)	8.37	45	40537	0.898	ng	83
16) Acrylonitrile	8.59	53	9433	0.475	ng	98
17) 1,1-Dichloroethene	9.06	96	6255	0.494	ng	91
18) 2-Methyl-2-Propanol (t...	9.33	59	37768	0.976	ng	82
19) Methylene Chloride	9.26	84	6743	0.459	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	15298	0.645	ng	80
21) Trichlorotrifluoroethane	9.70	151	4915	0.477	ng	96
22) Carbon Disulfide	9.65	76	24760	0.489	ng	# 74
23) trans-1,2-Dichloroethene	10.69	61	10278	0.469	ng	99
24) 1,1-Dichloroethane	10.99	63	12065	0.442	ng	98
25) Methyl tert-Butyl Ether	11.25	73	19979	0.451	ng	99
26) Vinyl Acetate	11.29	86	5981	2.014	ng	# 48
27) 2-Butanone (MEK)	11.74	72	5062	0.512	ng	# 88
28) cis-1,2-Dichloroethene	12.24	61	9809	0.463	ng	99
29) Diisopropyl Ether	12.69	87	6520	0.544	ng	# 1
30) Ethyl Acetate	12.72	61	5291	1.030	ng	97
31) n-Hexane	12.58	57	12706	0.470	ng	99

460

DA 8/16/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	11191	0.451	ng	99
34) Tetrahydrofuran (THF)	13.48	72	5678	0.487	ng #	86
35) Ethyl tert-Butyl Ether	13.49	87	8229	0.448	ng	97
36) 1,2-Dichloroethane	13.80	62	10322	0.472	ng	97
38) 1,1,1-Trichloroethane	14.18	97	10785	0.448	ng	98
39) Isopropyl Acetate	14.87	61	9606	0.968	ng #	90
40) 1-Butanol	14.96	56	16246	0.959	ng	85
41) Benzene	14.88	78	29072	0.458	ng	99
42) Carbon Tetrachloride	15.11	117	9173	0.455	ng	100
43) Cyclohexane	15.30	84	21267	0.948	ng	99
44) tert-Amyl Methyl Ether	15.89	73	21956	0.472	ng	98
45) 1,2-Dichloropropane	16.11	63	7082	0.459	ng	98
46) Bromodichloromethane	16.37	83	9525	0.486	ng	99
47) Trichloroethene	16.45	130	6343	0.479	ng	98
48) 1,4-Dioxane	16.57	88	6011	0.528	ng	89
49) 2,2,4-Trimethylpentane...	16.52	57	33244	0.475	ng	99
50) Methyl Methacrylate	16.79	100	5377	0.998	ng	95
51) n-Heptane	16.88	71	7790	0.470	ng	99
52) cis-1,3-Dichloropropene	17.66	75	10842	0.453	ng	98
53) 4-Methyl-2-pentanone	17.80	58	7333	0.511	ng	91
54) trans-1,3-Dichloropropene	18.36	75	11151	0.509	ng	100
55) 1,1,2-Trichloroethane	18.61	97	6160	0.462	ng	98
58) Toluene	18.99	91	28640	0.484	ng	99
59) 2-Hexanone	19.40	43	19538	0.492	ng	97
60) Dibromochloromethane	19.53	129	7167	0.517	ng	93
61) 1,2-Dibromoethane	19.87	107	6714	0.470	ng	98
62) n-Butyl Acetate	20.20	43	22390	0.496	ng	99
63) n-Octane	20.28	57	7129	0.478	ng	100
64) Tetrachloroethene	20.46	166	6404	0.475	ng	100
65) Chlorobenzene	21.34	112	17302	0.484	ng	100
66) Ethylbenzene	21.82	91	32353	0.484	ng	98
67) m- & p-Xylenes	22.06	91	50569	0.938	ng #	30
68) Bromoform	22.15	173	5337	0.471	ng	97
69) Styrene	22.51	104	18352	0.488	ng	98
70) o-Xylene	22.65	91	26471	0.488	ng	97
71) n-Nonane	22.91	43	17683	0.467	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	11841	0.496	ng	95
74) Cumene	23.41	105	31734	0.479	ng	97
75) alpha-Pinene	23.90	93	15763	0.450	ng	95
76) n-Propylbenzene	24.05	91	40346	0.474	ng	99
77) 3-Ethyltoluene	24.18	105	32540	0.519	ng	95
78) 4-Ethyltoluene	24.23	105	30506	0.480	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	26350	0.487	ng	100

461

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

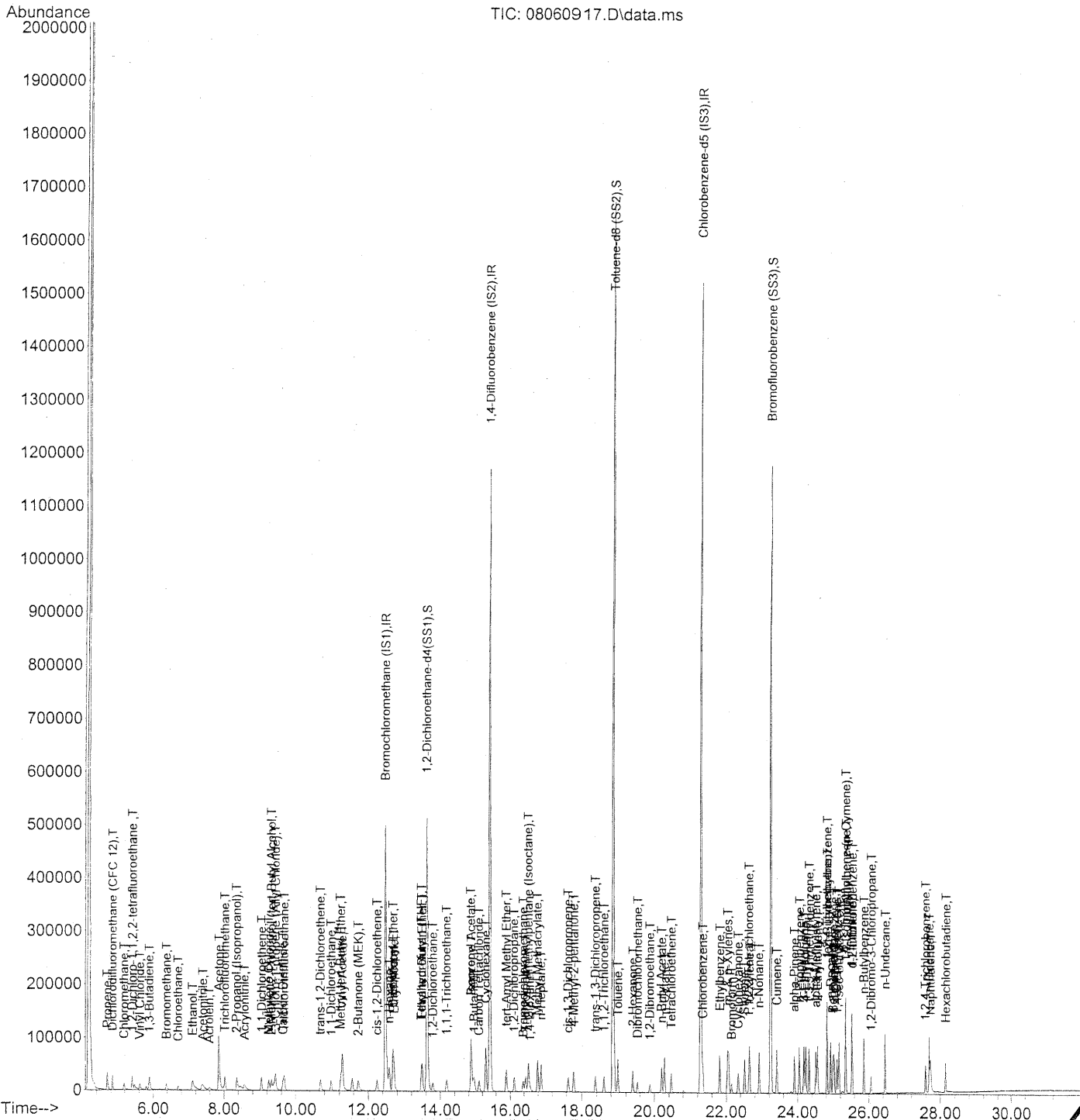
Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	12971	0.473	ng	97
81) 2-Ethyltoluene	24.57	105	31095	0.473	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	26353	0.488	ng	96
83) n-Decane	24.94	57	18126	0.506	ng	98
84) Benzyl Chloride	25.00	91	24206	0.520	ng	100
85) 1,3-Dichlorobenzene	25.03	146	12977	0.502	ng	98
86) 1,4-Dichlorobenzene	25.11	146	13901	0.506	ng	97
87) sec-Butylbenzene	25.17	105	35698	0.493	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	31753	0.493	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	27977	0.510	ng	100
90) 1,2-Dichlorobenzene	25.53	146	12508	0.501	ng	98
91) d-Limonene	25.53	68	11768	0.502	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	4075	0.510	ng	90
93) n-Undecane	26.46	57	18836	0.515	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	8410	0.533	ng	97
95) Naphthalene	27.74	128	33134	0.535	ng	93
96) n-Dodecane	27.70	57	20632	0.533	ng	95
97) Hexachlorobutadiene	28.15	225	5535	0.546	ng	100
98) Cyclohexanone	22.34	55	10843	0.402	ng	97
99) tert-Butylbenzene	24.83	119	25490	0.490	ng	97
100) n-Butylbenzene	25.86	91	30481	0.517	ng	98

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	253159	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1287874	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	650609	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.63	65	554603	24.002	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.00%	
57) Toluene-d8 (SS2)	18.85	98	1420867	25.196	ng	0.00
Spiked Amount	25.000		Recovery	=	100.80%	
73) Bromofluorobenzene (SS3)	23.24	174	366142	25.425	ng	0.00
Spiked Amount	25.000		Recovery	=	101.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	15729	0.803	ng	98
3) Dichlorodifluoromethan...	4.86	85	28962	0.889	ng	99
4) Chloromethane	5.18	50	19165	0.931	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	11280	0.884	ng	99
6) Vinyl Chloride	5.62	62	17901	0.889	ng	98
7) 1,3-Butadiene	5.89	54	14844	1.029	ng	95
8) Bromomethane	6.38	94	10788	1.167	ng	95
9) Chloroethane	6.71	64	10224	0.923	ng	92
10) Ethanol	7.12	45	54360	4.518	ng	98
11) Acetonitrile	7.42	41	31256	0.737	ng	99
12) Acrolein	7.59	56	8675	0.746	ng	98
13) Acetone	7.86	58	59842	4.351	ng	99
14) Trichlorofluoromethane	8.03	101	25722	0.909	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	78074	1.717	ng	95
16) Acrylonitrile	8.58	53	19833	0.991	ng	100
17) 1,1-Dichloroethene	9.05	96	12813	1.005	ng	91
18) 2-Methyl-2-Propanol (t...	9.32	59	75842	1.947	ng	80
19) Methylene Chloride	9.25	84	13644	0.922	ng	99
20) 3-Chloro-1-propene (Al...	9.44	41	30907	1.293	ng	82
21) Trichlorotrifluoroethane	9.68	151	9982	0.961	ng	98
22) Carbon Disulfide	9.65	76	49774	0.977	ng	100
23) trans-1,2-Dichloroethene	10.68	61	21976	0.995	ng	99
24) 1,1-Dichloroethane	10.98	63	26037	0.946	ng	100
25) Methyl tert-Butyl Ether	11.24	73	39678	0.890	ng	100
26) Vinyl Acetate	11.28	86	12172	4.070	ng	# 63
27) 2-Butanone (MEK)	11.72	72	9933	0.997	ng	# 84
28) cis-1,2-Dichloroethene	12.24	61	20467	0.958	ng	96
29) Diisopropyl Ether	12.68	87	13497	1.117	ng	# 1
30) Ethyl Acetate	12.71	61	10334	1.998	ng	99
31) n-Hexane	12.58	57	26377	0.968	ng	95

464

DA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	23278	0.931	ng	100
34) Tetrahydrofuran (THF)	13.47	72	10036	0.854	ng	# 89
35) Ethyl tert-Butyl Ether	13.49	87	16455	0.890	ng	99
36) 1,2-Dichloroethane	13.79	62	20046	0.910	ng	98
38) 1,1,1-Trichloroethane	14.17	97	21730	0.909	ng	96
39) Isopropyl Acetate	14.87	61	18933	1.921	ng	# 82
40) 1-Butanol	14.95	56	31282	1.861	ng	83
41) Benzene	14.88	78	55682	0.883	ng	99
42) Carbon Tetrachloride	15.10	117	18312	0.914	ng	99
43) Cyclohexane	15.30	84	42338	1.901	ng	99
44) tert-Amyl Methyl Ether	15.89	73	42797	0.926	ng	98
45) 1,2-Dichloropropane	16.11	63	14488	0.946	ng	100
46) Bromodichloromethane	16.38	83	19155	0.984	ng	98
47) Trichloroethene	16.44	130	12738	0.969	ng	99
48) 1,4-Dioxane	16.57	88	11142	0.985	ng	# 68
49) 2,2,4-Trimethylpentane...	16.52	57	66591	0.958	ng	97
50) Methyl Methacrylate	16.79	100	10587	1.978	ng	96
51) n-Heptane	16.89	71	15425	0.937	ng	99
52) cis-1,3-Dichloropropene	17.65	75	22102	0.930	ng	100
53) 4-Methyl-2-pentanone	17.80	58	14470	1.016	ng	94
54) trans-1,3-Dichloropropene	18.36	75	23424	1.078	ng	99
55) 1,1,2-Trichloroethane	18.61	97	12640	0.955	ng	96
58) Toluene	18.99	91	57012	0.977	ng	99
59) 2-Hexanone	19.40	43	39077	0.996	ng	99
60) Dibromochloromethane	19.54	129	14256	1.042	ng	99
61) 1,2-Dibromoethane	19.87	107	14117	1.001	ng	100
62) n-Butyl Acetate	20.20	43	44725	1.004	ng	99
63) n-Octane	20.28	57	13890	0.944	ng	97
64) Tetrachloroethene	20.47	166	12781	0.961	ng	97
65) Chlorobenzene	21.35	112	35691	1.012	ng	99
66) Ethylbenzene	21.82	91	64286	0.974	ng	100
67) m- & p-Xylenes	22.04	91	102993	1.935	ng	# 30
68) Bromoform	22.16	173	10221	0.914	ng	96
69) Styrene	22.51	104	36918	0.995	ng	98
70) o-Xylene	22.65	91	52204	0.975	ng	100
71) n-Nonane	22.91	43	35568	0.951	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	23941	1.017	ng	98
74) Cumene	23.41	105	63375	0.970	ng	98
75) alpha-Pinene	23.90	93	32053	0.926	ng	96
76) n-Propylbenzene	24.05	91	82766	0.986	ng	98
77) 3-Ethyltoluene	24.18	105	62532	1.011	ng	99
78) 4-Ethyltoluene	24.23	105	63400	1.011	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	52731	0.987	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

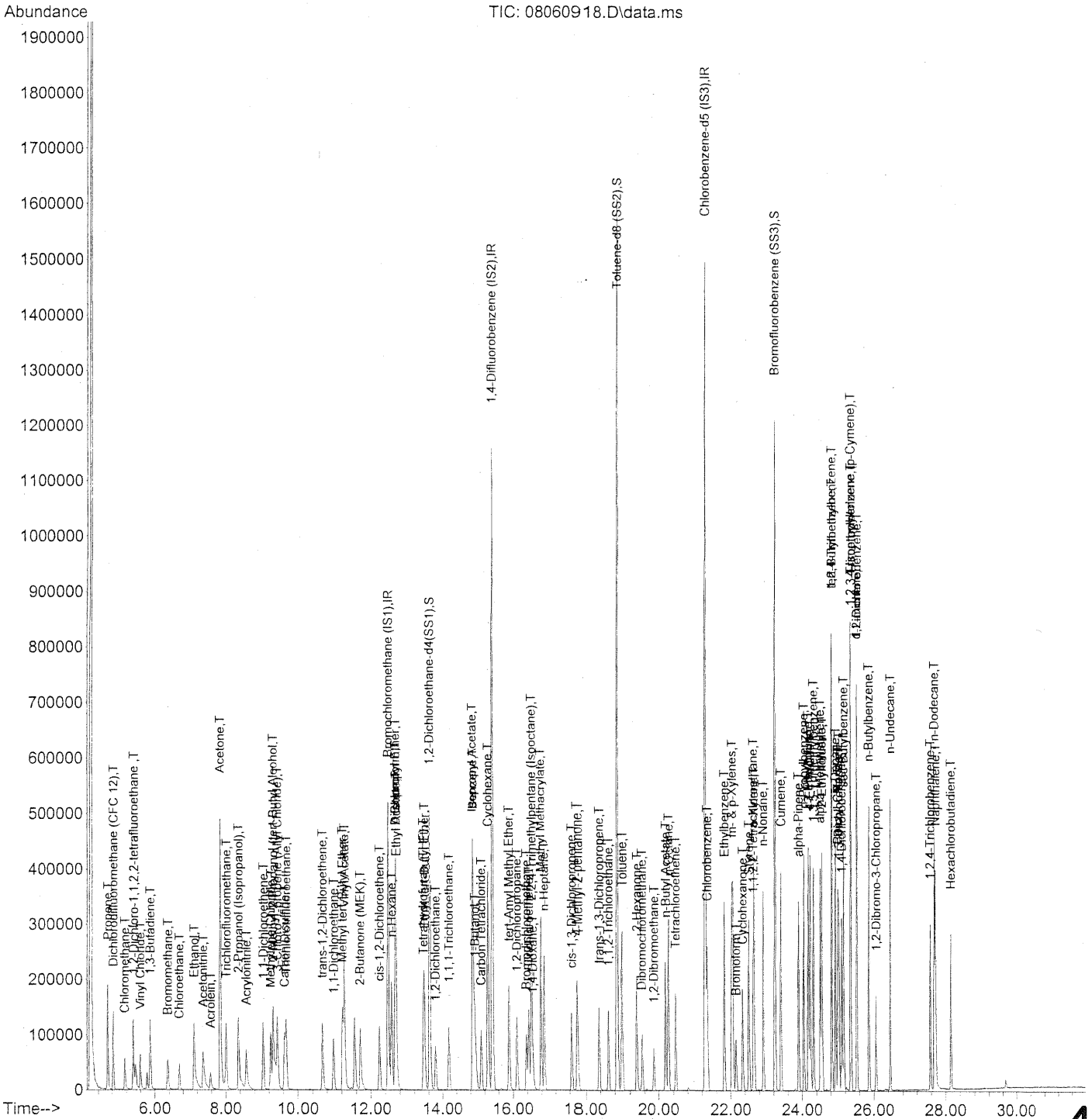
Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	27052	1.000	ng	96
81) 2-Ethyltoluene	24.56	105	62808	0.968	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	54320	1.019	ng	99
83) n-Decane	24.94	57	36002	1.019	ng	99
84) Benzyl Chloride	25.00	91	50759	1.106	ng	97
85) 1,3-Dichlorobenzene	25.03	146	27203	1.066	ng	98
86) 1,4-Dichlorobenzene	25.11	146	27477	1.014	ng	100
87) sec-Butylbenzene	25.17	105	71023	0.994	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	62425	0.982	ng	97
89) 1,2,3-Trimethylbenzene	25.36	105	54604	1.008	ng	98
90) 1,2-Dichlorobenzene	25.53	146	25453	1.032	ng	99
91) d-Limonene	25.53	68	22906	0.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	9032	1.145	ng	96
93) n-Undecane	26.46	57	39335	1.089	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	18307	1.175	ng	98
95) Naphthalene	27.74	128	69383	1.134	ng	97
96) n-Dodecane	27.70	57	41338	1.082	ng	95
97) Hexachlorobutadiene	28.15	225	10594	1.059	ng	98
98) Cyclohexanone	22.34	55	21416	0.805	ng	99
99) tert-Butylbenzene	24.83	119	51340	1.000	ng	98
100) n-Butylbenzene	25.86	91	61539	1.058	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	249215	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1269404	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	640609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	541276	23.796	ng	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
57) Toluene-d8 (SS2)	18.86	98	1393939	25.104	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
73) Bromofluorobenzene (SS3)	23.24	174	369692	26.072	ng	0.00
Spiked Amount	25.000		Recovery	=	104.28%	

Target Compounds

						Qvalue
2) Propene	4.67	42	89432	4.636	ng	99
3) Dichlorodifluoromethan...	4.84	85	140828	4.390	ng	99
4) Chloromethane	5.15	50	84961	4.191	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	54919	4.370	ng	97
6) Vinyl Chloride	5.59	62	89033	4.491	ng	100
7) 1,3-Butadiene	5.87	54	73562	5.181	ng	98
8) Bromomethane	6.36	94	52677	5.786	ng	99
9) Chloroethane	6.69	64	52005	4.770	ng	95
10) Ethanol	7.11	45	258014	21.785	ng	100
11) Acetonitrile	7.37	41	150692	3.611	ng	99
12) Acrolein	7.57	56	44402	3.876	ng	99
13) Acetone	7.84	58	278483	20.568	ng	96
14) Trichlorofluoromethane	8.02	101	123504	4.435	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	301287	6.731	ng	97
16) Acrylonitrile	8.57	53	100540	5.104	ng	100
17) 1,1-Dichloroethene	9.04	96	62068	4.946	ng	93
18) 2-Methyl-2-Propanol (t...	9.31	59	359931	9.384	ng	95
19) Methylene Chloride	9.24	84	65696	4.508	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	129259	5.493	ng	92
21) Trichlorotrifluoroethane	9.68	151	47871	4.683	ng	96
22) Carbon Disulfide	9.63	76	243057	4.846	ng	100
23) trans-1,2-Dichloroethene	10.68	61	107824	4.959	ng	99
24) 1,1-Dichloroethane	10.99	63	124688	4.604	ng	99
25) Methyl tert-Butyl Ether	11.23	73	197911	4.509	ng	99
26) Vinyl Acetate	11.28	86	44312	15.052	ng	# 69
27) 2-Butanone (MEK)	11.71	72	50182	5.115	ng	# 92
28) cis-1,2-Dichloroethene	12.24	61	102666	4.883	ng	99
29) Diisopropyl Ether	12.68	87	64732	5.444	ng	# 1
30) Ethyl Acetate	12.71	61	52338	10.281	ng	97
31) n-Hexane	12.58	57	123098	4.588	ng	98

468

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	113521	4.612	ng	99
34) Tetrahydrofuran (THF)	13.46	72	47151	4.075	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	77046	4.234	ng	99
36) 1,2-Dichloroethane	13.80	62	97747	4.510	ng	97
38) 1,1,1-Trichloroethane	14.18	97	104481	4.435	ng	98
39) Isopropyl Acetate	14.86	61	94088	9.685	ng	# 84
40) 1-Butanol	14.92	56	150422	9.077	ng	82
41) Benzene	14.88	78	266073	4.281	ng	99
42) Carbon Tetrachloride	15.11	117	92233	4.673	ng	99
43) Cyclohexane	15.30	84	209843	9.557	ng	98
44) tert-Amyl Methyl Ether	15.89	73	204750	4.496	ng	100
45) 1,2-Dichloropropane	16.11	63	69671	4.617	ng	100
46) Bromodichloromethane	16.38	83	93085	4.854	ng	99
47) Trichloroethene	16.45	130	62720	4.839	ng	98
48) 1,4-Dioxane	16.56	88	55737	5.001	ng	# 73
49) 2,2,4-Trimethylpentane...	16.52	57	325558	4.752	ng	96
50) Methyl Methacrylate	16.79	100	53436	10.131	ng	96
51) n-Heptane	16.88	71	74028	4.561	ng	98
52) cis-1,3-Dichloropropene	17.65	75	108231	4.619	ng	99
53) 4-Methyl-2-pentanone	17.79	58	70345	5.011	ng	97
54) trans-1,3-Dichloropropene	18.36	75	114007	5.321	ng	99
55) 1,1,2-Trichloroethane	18.61	97	60472	4.636	ng	100
58) Toluene	18.99	91	270680	4.712	ng	99
59) 2-Hexanone	19.39	43	192690	4.989	ng	99
60) Dibromochloromethane	19.53	129	70986	5.272	ng	98
61) 1,2-Dibromoethane	19.87	107	69321	4.990	ng	98
62) n-Butyl Acetate	20.20	43	218998	4.994	ng	100
63) n-Octane	20.28	57	67291	4.644	ng	97
64) Tetrachloroethene	20.47	166	59893	4.573	ng	98
65) Chlorobenzene	21.35	112	168463	4.853	ng	99
66) Ethylbenzene	21.82	91	312047	4.800	ng	100
67) m- & p-Xylenes	22.04	91	487391	9.302	ng	# 30
68) Bromoform	22.15	173	54281	4.930	ng	100
69) Styrene	22.51	104	183096	5.011	ng	97
70) o-Xylene	22.66	91	252696	4.794	ng	98
71) n-Nonane	22.91	43	166786	4.529	ng	98
72) 1,1,2,2-Tetrachloroethane	22.63	83	115016	4.963	ng	100
74) Cumene	23.41	105	304404	4.730	ng	99
75) alpha-Pinene	23.90	93	157830	4.632	ng	98
76) n-Propylbenzene	24.05	91	393830	4.766	ng	99
77) 3-Ethyltoluene	24.18	105	312687	5.133	ng	99
78) 4-Ethyltoluene	24.23	105	300258	4.865	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	256223	4.871	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

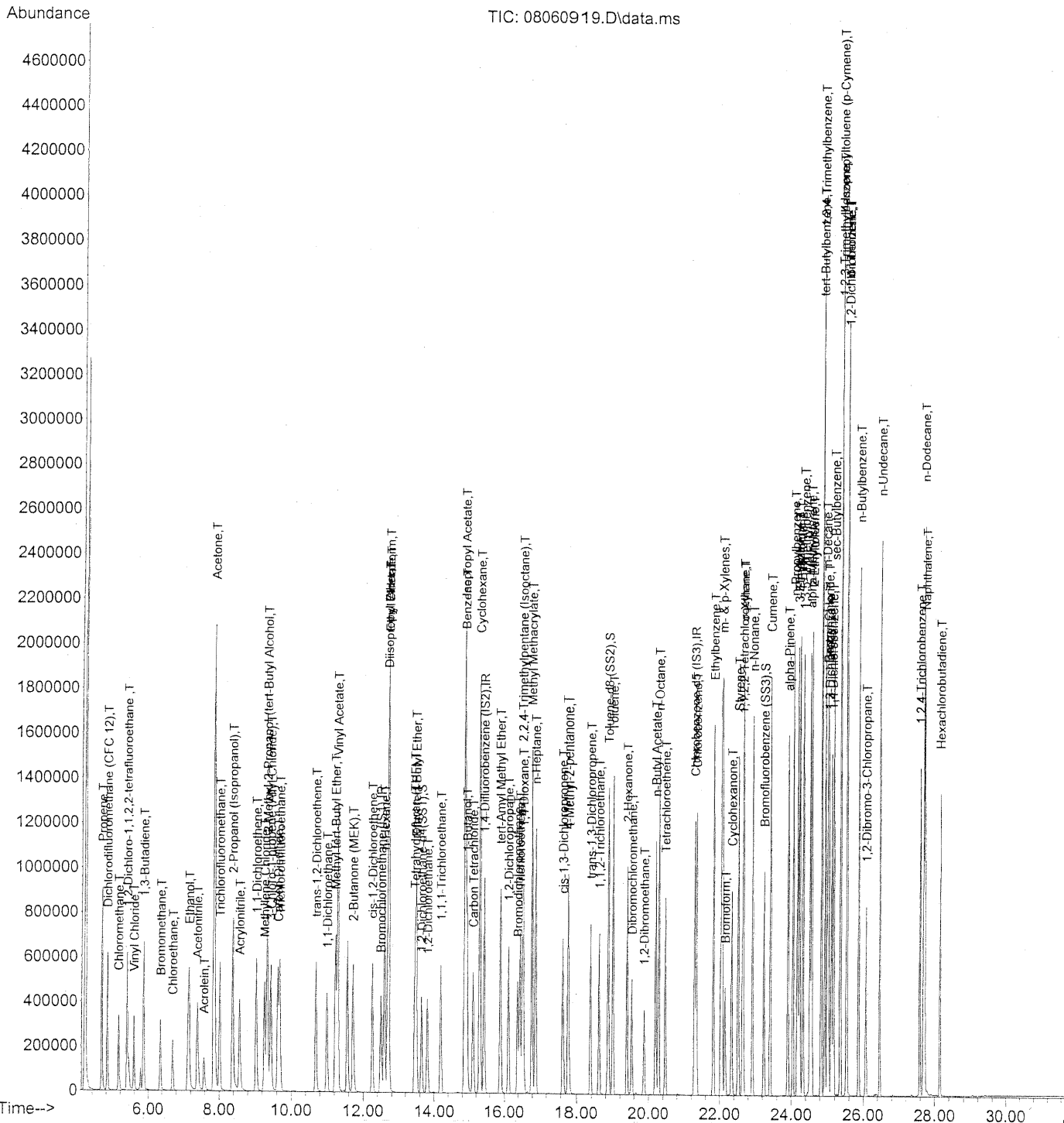
Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	137848	5.174	ng	98
81) 2-Ethyltoluene	24.56	105	305024	4.773	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	257449	4.905	ng	99
83) n-Decane	24.94	57	171862	4.941	ng	99
84) Benzyl Chloride	25.01	91	258427	5.717	ng	99
85) 1,3-Dichlorobenzene	25.03	146	131275	5.227	ng	97
86) 1,4-Dichlorobenzene	25.11	146	133153	4.993	ng	100
87) sec-Butylbenzene	25.17	105	345740	4.915	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	305963	4.889	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	265359	4.975	ng	98
90) 1,2-Dichlorobenzene	25.53	146	123261	5.077	ng	100
91) d-Limonene	25.53	68	113934	5.005	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	47123	6.066	ng	96
93) n-Undecane	26.46	57	184521	5.189	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	91111	5.938	ng	99
95) Naphthalene	27.73	128	353074	5.862	ng	100
96) n-Dodecane	27.70	57	188594	5.016	ng	99
97) Hexachlorobutadiene	28.15	225	51370	5.213	ng	100
98) Cyclohexanone	22.33	55	103876	3.963	ng	99
99) tert-Butylbenzene	24.83	119	245043	4.847	ng	99
100) n-Butylbenzene	25.86	91	301669	5.270	ng	100

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	207495	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1056146	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	528644	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	447374	23.622	ng	0.00
Spiked Amount	25.000		Recovery	=	94.48%	
57) Toluene-d8 (SS2)	18.86	98	1150944	25.118	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.24	174	306340	26.180	ng	0.00
Spiked Amount	25.000		Recovery	=	104.72%	

Target Compounds

						Qvalue
2) Propene	4.67	42	397150	24.727	ng	100
3) Dichlorodifluoromethan...	4.83	85	635550	23.796	ng	99
4) Chloromethane	5.15	50	453590	26.875	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	260375	24.887	ng	98
6) Vinyl Chloride	5.59	62	431248	26.129	ng	98
7) 1,3-Butadiene	5.87	54	374047	31.641	ng	98
8) Bromomethane	6.35	94	273614	36.099	ng	99
9) Chloroethane	6.69	64	246290	27.134	ng	97
10) Ethanol	7.15	45	1215448	123.257	ng	100
11) Acetonitrile	7.38	41	708708	20.399	ng	100
12) Acrolein	7.57	56	210551	22.077	ng	98
13) Acetone	7.85	58	1259513	111.728	ng	97
14) Trichlorofluoromethane	8.01	101	614629	26.506	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1639705	43.999	ng	99
16) Acrylonitrile	8.57	53	497820	30.352	ng	99
17) 1,1-Dichloroethene	9.03	96	310280	29.696	ng	93
18) 2-Methyl-2-Propanol (t...	9.34	59	1766301	55.312	ng	98
19) Methylene Chloride	9.26	84	317656	26.180	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	596921	30.468	ng	99
21) Trichlorotrifluoroethane	9.68	151	242878	28.535	ng	100
22) Carbon Disulfide	9.63	76	1185465	28.386	ng	98
23) trans-1,2-Dichloroethene	10.69	61	536758	29.651	ng	99
24) 1,1-Dichloroethane	10.99	63	626914	27.802	ng	100
25) Methyl tert-Butyl Ether	11.23	73	988001	27.035	ng	99
26) Vinyl Acetate	11.29	86	232023	94.663	ng	# 94
27) 2-Butanone (MEK)	11.71	72	244752	29.962	ng	99
28) cis-1,2-Dichloroethene	12.25	61	508498	29.050	ng	99
29) Diisopropyl Ether	12.68	87	316984	32.016	ng	# 1
30) Ethyl Acetate	12.71	61	248217	58.562	ng	99
31) n-Hexane	12.59	57	594541	26.616	ng	97

472

WA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	541847	26.440	ng	100
34) Tetrahydrofuran (THF)	13.45	72	234041	24.295	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	375069	24.759	ng	99
36) 1,2-Dichloroethane	13.80	62	490990	27.208	ng	98
38) 1,1,1-Trichloroethane	14.19	97	521245	26.595	ng	98
39) Isopropyl Acetate	14.87	61	456771	56.511	ng	# 86
40) 1-Butanol	14.93	56	723046	52.443	ng	80
41) Benzene	14.88	78	1276338	24.685	ng	99
42) Carbon Tetrachloride	15.11	117	465095	28.320	ng	98
43) Cyclohexane	15.31	84	1000496	54.769	ng	99
44) tert-Amyl Methyl Ether	15.89	73	989673	26.122	ng	99
45) 1,2-Dichloropropane	16.12	63	347675	27.694	ng	99
46) Bromodichloromethane	16.39	83	465949	29.201	ng	98
47) Trichloroethene	16.45	130	316970	29.394	ng	99
48) 1,4-Dioxane	16.55	88	266033	28.691	ng	# 71
49) 2,2,4-Trimethylpentane...	16.53	57	1568435	27.515	ng	96
50) Methyl Methacrylate	16.79	100	266630	60.760	ng	100
51) n-Heptane	16.89	71	366787	27.159	ng	99
52) cis-1,3-Dichloropropene	17.66	75	541590	27.780	ng	99
53) 4-Methyl-2-pentanone	17.79	58	350647	30.023	ng	98
54) trans-1,3-Dichloropropene	18.37	75	568419	31.884	ng	98
55) 1,1,2-Trichloroethane	18.61	97	299989	27.639	ng	98
58) Toluene	18.99	91	1326296	27.980	ng	99
59) 2-Hexanone	19.39	43	922020	28.929	ng	99
60) Dibromochloromethane	19.54	129	363307	32.695	ng	99
61) 1,2-Dibromoethane	19.87	107	346018	30.184	ng	99
62) n-Butyl Acetate	20.20	43	1069244	29.546	ng	99
63) n-Octane	20.28	57	322871	27.000	ng	96
64) Tetrachloroethene	20.47	166	306228	28.331	ng	99
65) Chlorobenzene	21.35	112	830316	28.987	ng	100
66) Ethylbenzene	21.83	91	1510329	28.156	ng	99
67) m- & p-Xylenes	22.06	91	2364755	54.690	ng	99
68) Bromoform	22.16	173	284337	31.297	ng	99
69) Styrene	22.52	104	922923	30.607	ng	99
70) o-Xylene	22.66	91	1212719	27.879	ng	98
71) n-Nonane	22.92	43	783849	25.792	ng	99
72) 1,1,2,2-Tetrachloroethane	22.64	83	553928	28.964	ng	100
74) Cumene	23.41	105	1485450	27.968	ng	99
75) alpha-Pinene	23.91	93	765795	27.237	ng	100
76) n-Propylbenzene	24.05	91	1894473	27.785	ng	100
77) 3-Ethyltoluene	24.18	105	1496922	29.775	ng	100
78) 4-Ethyltoluene	24.23	105	1487030	29.196	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1242874	28.633	ng	99

473

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

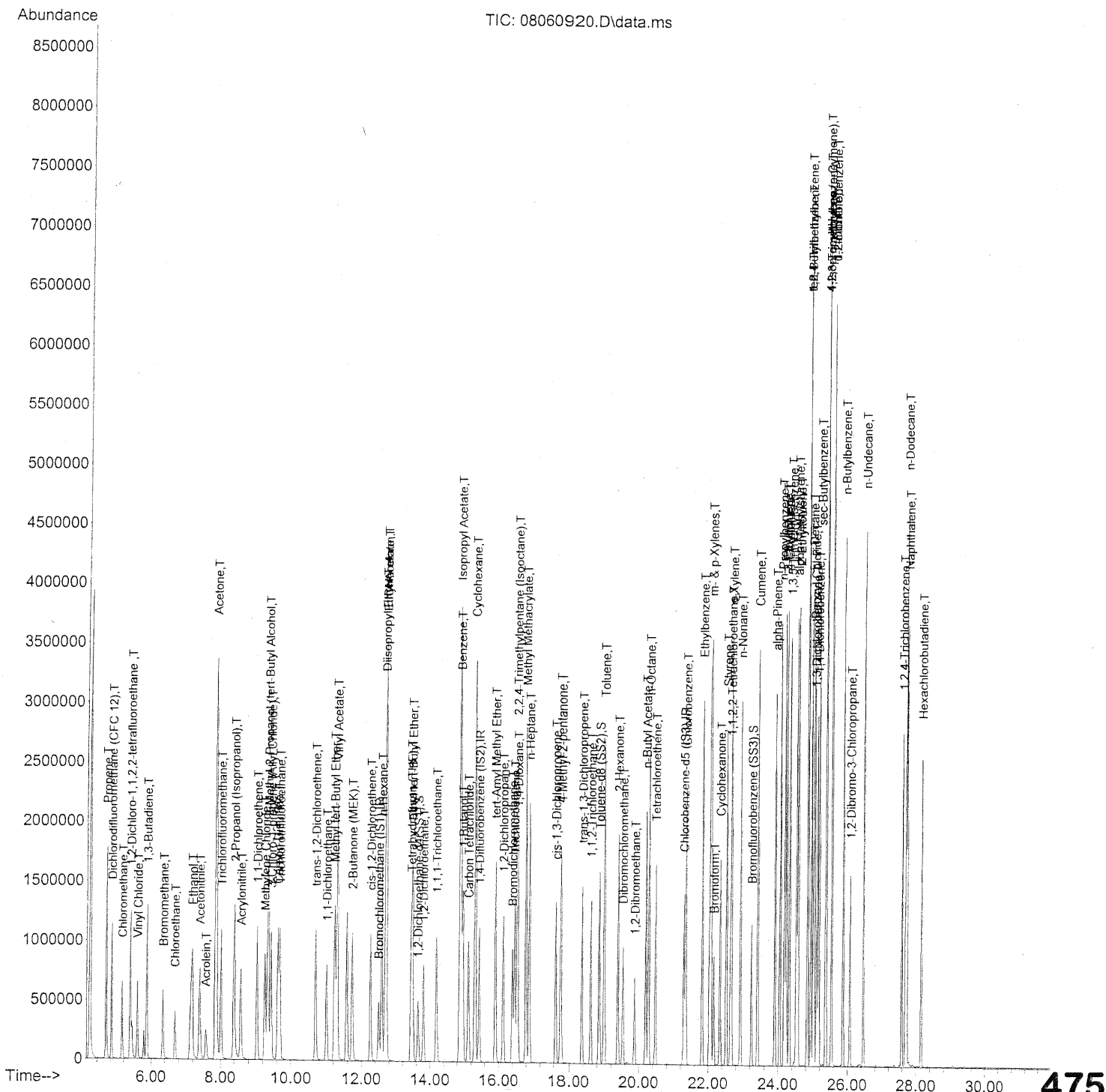
Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	682695	31.049	ng	99
81) 2-Ethyltoluene	24.57	105	1482611	28.115	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	1242291	28.679	ng	100
83) n-Decane	24.94	57	804056	28.011	ng	100
84) Benzyl Chloride	25.01	91	1277690	34.250	ng	100
85) 1,3-Dichlorobenzene	25.03	146	652647	31.489	ng	97
86) 1,4-Dichlorobenzene	25.11	146	668115	30.359	ng	99
87) sec-Butylbenzene	25.17	105	1672528	28.809	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1479621	28.648	ng	100
89) 1,2,3-Trimethylbenzene	25.36	105	1274600	28.960	ng	97
90) 1,2-Dichlorobenzene	25.54	146	611625	30.525	ng	99
91) d-Limonene	25.53	68	550190	29.286	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	236587	36.905	ng	94
93) n-Undecane	26.46	57	859590	29.294	ng	100
94) 1,2,4-Trichlorobenzene	27.59	180	463024	36.569	ng	100
95) Naphthalene	27.74	128	1702428	34.252	ng	100
96) n-Dodecane	27.70	57	872418	28.116	ng	99
97) Hexachlorobutadiene	28.15	225	262946	32.338	ng	99
98) Cyclohexanone	22.33	55	505166	23.356	ng	99
99) tert-Butylbenzene	24.83	119	1185720	28.423	ng	99
100) n-Butylbenzene	25.87	91	1445418	30.597	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	246064	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1247385	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	628572	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.65	65	527588	23.491	ng	0.01
Spiked Amount	25.000		Recovery	=	93.96%	
57) Toluene-d8 (SS2)	18.86	98	1375416	25.245	ng	0.00
Spiked Amount	25.000		Recovery	=	100.96%	
73) Bromofluorobenzene (SS3)	23.25	174	373273	26.829	ng	0.00
Spiked Amount	25.000		Recovery	=	107.32%	

Target Compounds

						Qvalue
2) Propene	4.66	42	766697	40.253	ng	99
3) Dichlorodifluoromethan...	4.82	85	1206456	38.091	ng	99
4) Chloromethane	5.14	50	847645	42.351	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	513921	41.422	ng	99
6) Vinyl Chloride	5.59	62	848331	43.343	ng	98
7) 1,3-Butadiene	5.87	54	730169	52.084	ng	99
8) Bromomethane	6.35	94	491871	54.723	ng	99
9) Chloroethane	6.69	64	469575	43.625	ng	97
10) Ethanol	7.18	45	2326754	198.970	ng	100
11) Acetonitrile	7.39	41	1338822	32.495	ng	100
12) Acrolein	7.58	56	402755	35.611	ng	97
13) Acetone	7.86	58	2311019	172.872	ng	95
14) Trichlorofluoromethane	8.01	101	1159734	42.175	ng	100
15) 2-Propanol (Isopropanol)	8.40	45	2875108	65.056	ng	100
16) Acrylonitrile	8.58	53	940966	48.379	ng	98
17) 1,1-Dichloroethene	9.03	96	590850	47.685	ng	92
18) 2-Methyl-2-Propanol (t...	9.35	59	3260768	86.106	ng	99
19) Methylene Chloride	9.26	84	606273	42.136	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	1134104	48.813	ng	100
21) Trichlorotrifluoroethane	9.68	151	470831	46.646	ng	99
22) Carbon Disulfide	9.63	76	2221081	44.848	ng	98
23) trans-1,2-Dichloroethene	10.69	61	1011038	47.097	ng	98
24) 1,1-Dichloroethane	11.00	63	1184763	44.306	ng	99
25) Methyl tert-Butyl Ether	11.23	73	1897731	43.789	ng	99
26) Vinyl Acetate	11.30	86	408724	140.617	ng	100
27) 2-Butanone (MEK)	11.72	72	462913	47.786	ng	99
28) cis-1,2-Dichloroethene	12.26	61	959785	46.237	ng	98
29) Diisopropyl Ether	12.69	87	594750	50.655	ng	# 1
30) Ethyl Acetate	12.71	61	462477	92.010	ng	99
31) n-Hexane	12.59	57	1123585	42.416	ng	99

476

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.71	83	1005869	41.389	ng	99
34) Tetrahydrofuran (THF)	13.45	72	435280	38.102	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	712110	39.639	ng	97
36) 1,2-Dichloroethane	13.81	62	932796	43.588	ng	98
38) 1,1,1-Trichloroethane	14.19	97	995605	43.010	ng	98
39) Isopropyl Acetate	14.87	61	855760	89.642	ng	# 86
40) 1-Butanol	14.96	56	1373976	84.377	ng	# 79
41) Benzene	14.89	78	2375406	38.898	ng	99
42) Carbon Tetrachloride	15.12	117	885200	45.637	ng	99
43) Cyclohexane	15.31	84	1889680	87.585	ng	98
44) tert-Amyl Methyl Ether	15.89	73	1834473	40.996	ng	99
45) 1,2-Dichloropropane	16.12	63	658137	44.386	ng	99
46) Bromodichloromethane	16.39	83	892711	47.368	ng	99
47) Trichloroethene	16.45	130	608434	47.772	ng	98
48) 1,4-Dioxane	16.55	88	507842	46.373	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	2886330	42.872	ng	97
50) Methyl Methacrylate	16.80	100	522781	100.868	ng	93
51) n-Heptane	16.89	71	684826	42.934	ng	99
52) cis-1,3-Dichloropropene	17.66	75	1039036	45.124	ng	99
53) 4-Methyl-2-pentanone	17.80	58	654840	47.472	ng	99
54) trans-1,3-Dichloropropene	18.37	75	1094561	51.984	ng	99
55) 1,1,2-Trichloroethane	18.61	97	577490	45.049	ng	97
58) Toluene	19.00	91	2525620	44.811	ng	98
59) 2-Hexanone	19.40	43	1735363	45.792	ng	99
60) Dibromochloromethane	19.54	129	703485	53.244	ng	98
61) 1,2-Dibromoethane	19.88	107	661208	48.510	ng	98
62) n-Butyl Acetate	20.20	43	2024198	47.042	ng	99
63) n-Octane	20.28	57	605076	42.555	ng	96
64) Tetrachloroethene	20.48	166	601947	46.837	ng	99
65) Chlorobenzene	21.36	112	1587286	46.604	ng	100
66) Ethylbenzene	21.83	91	2858886	44.823	ng	99
67) m- & p-Xylenes	22.07	91	4460386	86.756	ng	98
68) Bromoform	22.16	173	558777	51.727	ng	99
69) Styrene	22.52	104	1767058	49.286	ng	99
70) o-Xylene	22.66	91	2294449	44.361	ng	97
71) n-Nonane	22.92	43	1444078	39.962	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	1043616	45.894	ng	100
74) Cumene	23.42	105	2823456	44.709	ng	100
75) alpha-Pinene	23.91	93	1462451	43.746	ng	99
76) n-Propylbenzene	24.06	91	3551148	43.802	ng	99
77) 3-Ethyltoluene	24.18	105	2884181	48.248	ng	99
78) 4-Ethyltoluene	24.24	105	2788015	46.037	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	2362085	45.766	ng	9

477

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

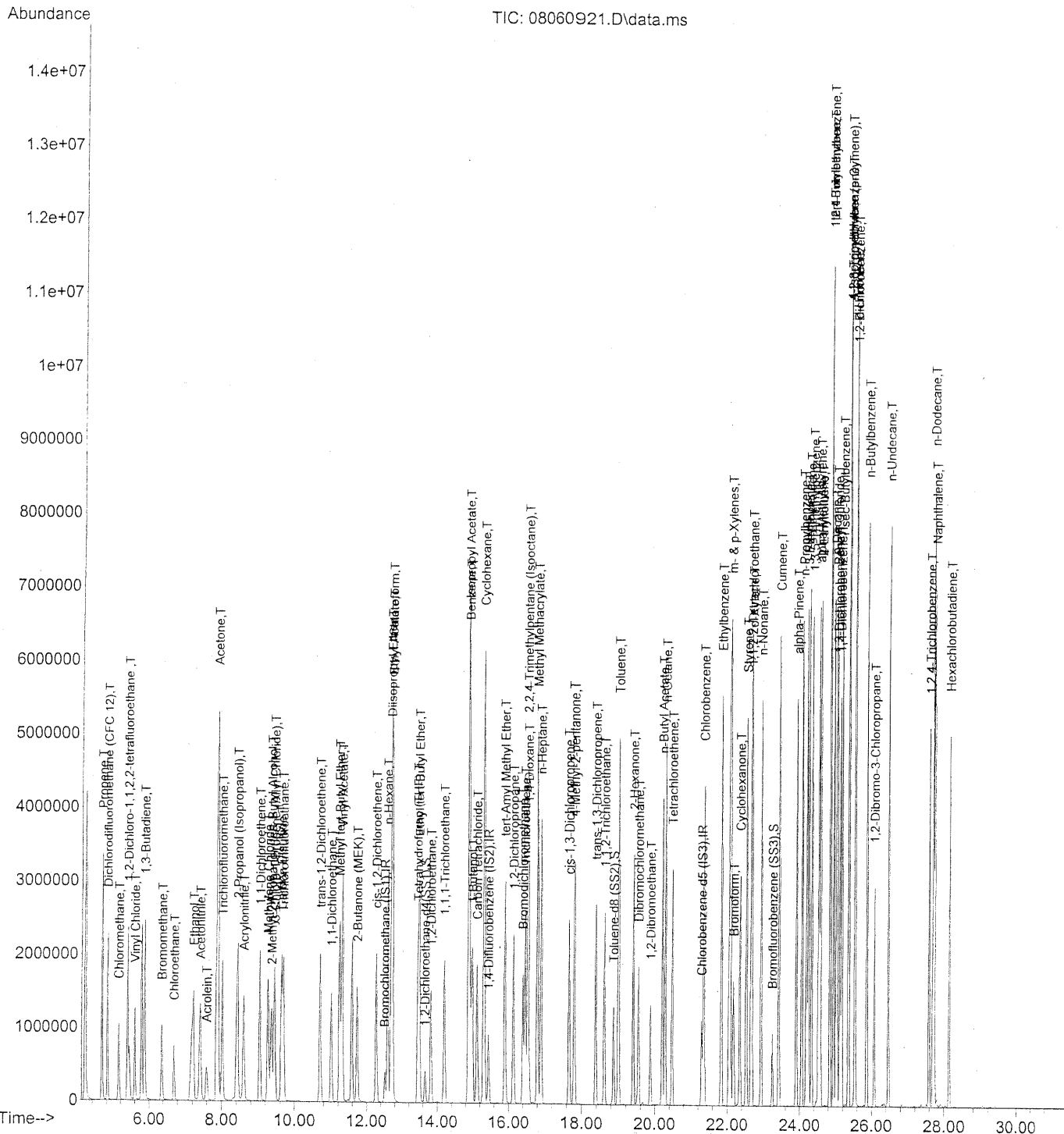
Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	1322010	50.567	ng	96
81) 2-Ethyltoluene	24.57	105	2813751	44.875	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	2342546	45.481	ng	99
83) n-Decane	24.94	57	1477979	43.303	ng	99
84) Benzyl Chloride	25.01	91	2418762	54.530	ng	99
85) 1,3-Dichlorobenzene	25.04	146	1268117	51.457	ng	97
86) 1,4-Dichlorobenzene	25.11	146	1304869	49.866	ng	99
87) sec-Butylbenzene	25.17	105	3150159	45.635	ng	99
88) 4-Isopropyltoluene (p-...	25.36	119	2788519	45.407	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	2406323	45.982	ng	97
90) 1,2-Dichlorobenzene	25.54	146	1179498	49.508	ng	100
91) d-Limonene	25.54	68	1035586	46.360	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	460773	60.449	ng	91
93) n-Undecane	26.46	57	1584968	45.428	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	910868	60.503	ng	99
95) Naphthalene	27.74	128	3285610	55.597	ng	99
96) n-Dodecane	27.70	57	1632372	44.244	ng	99
97) Hexachlorobutadiene	28.15	225	522278	54.021	ng	99
98) Cyclohexanone	22.34	55	957787	37.242	ng	98
99) tert-Butylbenzene	24.84	119	2258738	45.537	ng	99
100) n-Butylbenzene	25.87	91	2706705	48.188	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.51	130	204063	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1040695	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.30	82	521975	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.66	65	435176	23.365	ng	0.02
Spiked Amount	25.000		Recovery	=	93.44%	
57) Toluene-d8 (SS2)	18.86	98	1136569	25.121	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.25	174	310567	26.881	ng	0.00
Spiked Amount	25.000		Recovery	=	107.52%	

Target Compounds

						Qvalue
2) Propene	4.66	42	1483597	93.924	ng	99
3) Dichlorodifluoromethan...	4.83	85	2379344	90.583	ng	99
4) Chloromethane	5.15	50	1392812	83.913	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1008644	98.029	ng	98
6) Vinyl Chloride	5.59	62	1677099	103.322	ng	98
7) 1,3-Butadiene	5.87	54	1425350	122.599	ng	98
8) Bromomethane	6.36	94	914093	122.628	ng	99
9) Chloroethane	6.70	64	916786	102.702	ng	98
10) Ethanol	7.23	45	4377562	451.390	ng	100
11) Acetonitrile	7.42	41	2583362	75.607	ng	100
12) Acrolein	7.59	56	784600	83.651	ng	96
13) Acetone	7.89	58	4244786	382.878	ng	87
14) Trichlorofluoromethane	8.02	101	2210255	96.921	ng	99
15) 2-Propanol (Isopropanol)	8.43	45	5177262	141.260	ng	100
16) Acrylonitrile	8.60	53	1796721	111.390	ng	97
17) 1,1-Dichloroethene	9.04	96	1160669	112.953	ng	90
18) 2-Methyl-2-Propanol (t...	9.37	59	2345913	74.698	ng	100
19) Methylene Chloride	9.27	84	1184348	99.253	ng	96
20) 3-Chloro-1-propene (Al...	9.45	41	2146772	111.416	ng	98
21) Trichlorotrifluoroethane	9.68	151	916963	109.542	ng	96
22) Carbon Disulfide	9.63	76	4236854	103.158	ng	98
23) trans-1,2-Dichloroethene	10.70	61	1929408	108.376	ng	96
24) 1,1-Dichloroethane	11.01	63	2255773	101.720	ng	100
25) Methyl tert-Butyl Ether	11.23	73	3661547	101.878	ng	99
26) Vinyl Acetate	11.31	86	640109	265.549	ng	# 93
27) 2-Butanone (MEK)	11.73	72	687553	85.584	ng	97
28) cis-1,2-Dichloroethene	12.27	61	1822976	105.896	ng	97
29) Diisopropyl Ether	12.70	87	1137931	116.867	ng	# 1
30) Ethyl Acetate	12.73	61	853386	204.726	ng	100
31) n-Hexane	12.59	57	2161223	98.379	ng	99

480

RA 8/16/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	1880936	93.325	ng	100
34) Tetrahydrofuran (THF)	13.45	72	810456	85.544	ng	98
35) Ethyl tert-Butyl Ether	13.50	87	1363054	91.490	ng	96
36) 1,2-Dichloroethane	13.82	62	1754433	98.856	ng	97
38) 1,1,1-Trichloroethane	14.20	97	1846555	95.614	ng	98
39) Isopropyl Acetate	14.88	61	1588242	199.413	ng	95
40) 1-Butanol	14.99	56	2511497	184.865	ng	# 77
41) Benzene	14.90	78	4433680	87.021	ng	100
42) Carbon Tetrachloride	15.12	117	1694678	104.722	ng	99
43) Cyclohexane	15.32	84	3585086	199.167	ng	97
44) tert-Amyl Methyl Ether	15.90	73	3367820	90.211	ng	99
45) 1,2-Dichloropropane	16.13	63	1250257	101.067	ng	99
46) Bromodichloromethane	16.40	83	1669484	106.178	ng	99
47) Trichloroethene	16.47	130	1192304	112.208	ng	99
48) 1,4-Dioxane	16.56	88	940853	102.975	ng	# 76
49) 2,2,4-Trimethylpentane...	16.54	57	5320898	94.731	ng	97
50) Methyl Methacrylate	16.81	100	995395	230.200	ng	# 90
51) n-Heptane	16.91	71	1295628	97.360	ng	98
52) cis-1,3-Dichloropropene	17.67	75	1960789	102.068	ng	99
53) 4-Methyl-2-pentanone	17.80	58	1240802	107.815	ng	100
54) trans-1,3-Dichloropropene	18.38	75	2068198	117.733	ng	99
55) 1,1,2-Trichloroethane	18.62	97	1112067	103.980	ng	96
58) Toluene	19.00	91	4768847	101.891	ng	98
59) 2-Hexanone	19.41	43	3205631	101.863	ng	97
60) Dibromochloromethane	19.54	129	1359408	123.901	ng	98
61) 1,2-Dibromoethane	19.88	107	1277917	112.901	ng	99
62) n-Butyl Acetate	20.21	43	4015589	112.379	ng	98
63) n-Octane	20.29	57	1130161	95.715	ng	95
64) Tetrachloroethene	20.48	166	1184412	110.979	ng	99
65) Chlorobenzene	21.36	112	3039056	107.452	ng	100
66) Ethylbenzene	21.84	91	5357238	101.146	ng	97
67) m- & p-Xylenes	22.08	91	8307914	194.593	ng	96
68) Bromoform	22.17	173	1108833	123.609	ng	99
69) Styrene	22.53	104	3401279	114.239	ng	98
70) o-Xylene	22.67	91	4304194	100.212	ng	96
71) n-Nonane	22.93	43	2656292	88.519	ng	97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1997850	105.799	ng	100
74) Cumene	23.42	105	5281477	100.712	ng	99
75) alpha-Pinene	23.91	93	2764527	99.583	ng	98
76) n-Propylbenzene	24.06	91	6477041	96.207	ng	97
77) 3-Ethyltoluene	24.19	105	5409334	108.970	ng	98
78) 4-Ethyltoluene	24.25	105	5142381	102.255	ng	95
79) 1,3,5-Trimethylbenzene	24.34	105	4445745	103.729	ng	99

481

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

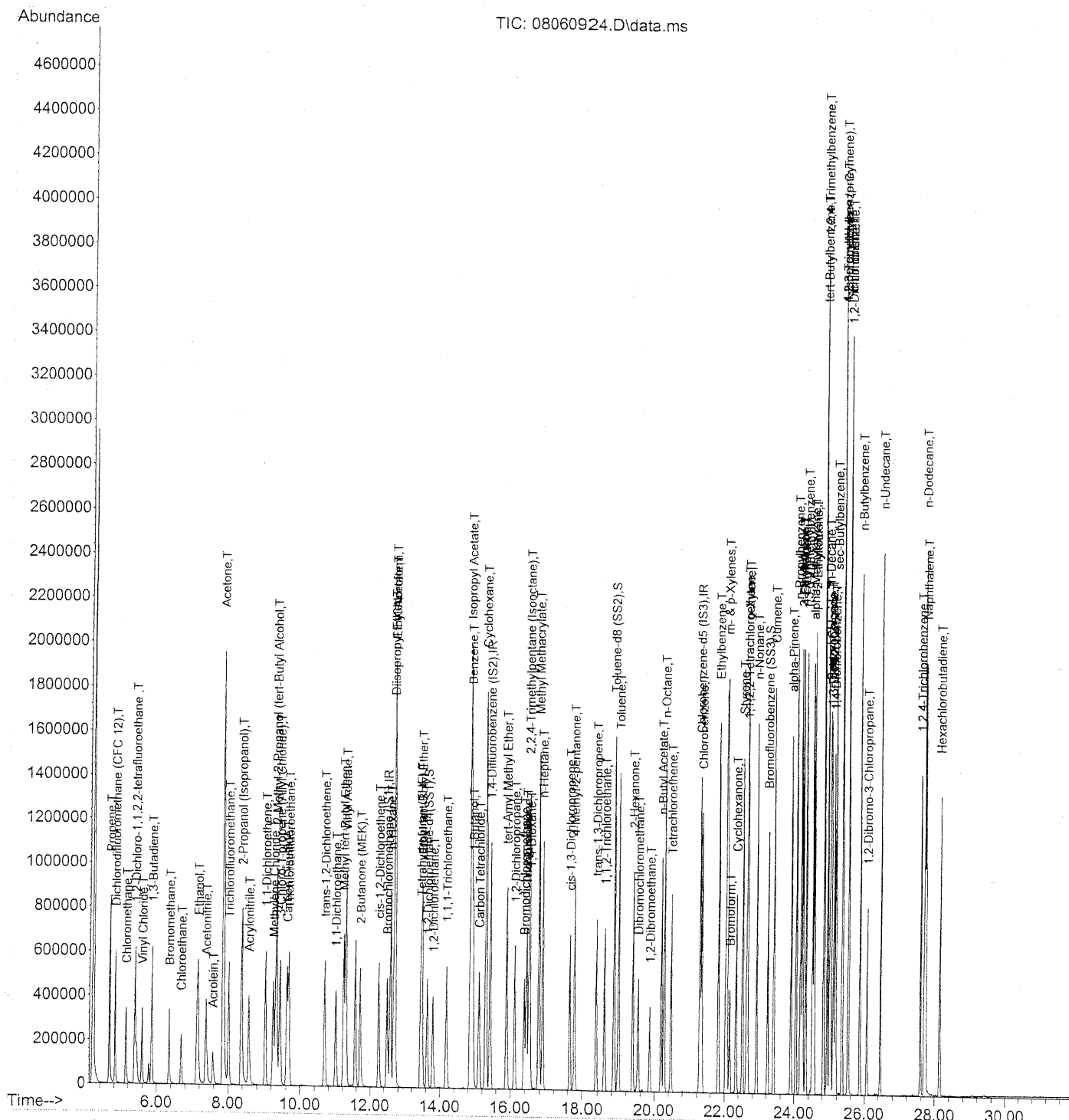
Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.53	118	2536487	116.834	ng	96
81) 2-Ethyltoluene	24.58	105	5229998	100.443	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	4275494	99.962	ng	98
83) n-Decane	24.95	57	2704263	95.412	ng	98
84) Benzyl Chloride	25.02	91	4499020	122.142	ng	97
85) 1,3-Dichlorobenzene	25.05	146	2490794	121.712	ng	97
86) 1,4-Dichlorobenzene	25.13	146	2542028	116.984	ng	98
87) sec-Butylbenzene	25.18	105	5783982	100.902	ng	98
88) 4-Isopropyltoluene (p-...	25.37	119	5010569	98.251	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	4359650	100.320	ng	95
90) 1,2-Dichlorobenzene	25.55	146	2206686	111.538	ng	100
91) d-Limonene	25.54	68	1890339	101.906	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	907634	143.389	ng	86
93) n-Undecane	26.47	57	2880684	99.426	ng	99
94) 1,2,4-Trichlorobenzene	27.60	180	1811250	144.878	ng	100
95) Naphthalene	27.74	128	6139171	125.097	ng	98
96) n-Dodecane	27.70	57	2961251	96.654	ng	98
97) Hexachlorobutadiene	28.15	225	1052824	131.135	ng	99
98) Cyclohexanone	22.35	55	1779789	83.337	ng	98
99) tert-Butylbenzene	24.85	119	4145655	100.646	ng	98
100) n-Butylbenzene	25.87	91	4947974	106.080	ng	97

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	238664	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1224547	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	614774	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	510896	24.629	ng	-0.02
Spiked Amount	25.000					
			Recovery	=	98.52%	
57) Toluene-d8 (SS2)	18.86	98	1345950	25.056	ng	0.00
Spiked Amount	25.000					
			Recovery	=	100.24%	
73) Bromofluorobenzene (SS3)	23.24	174	365031	25.768	ng	0.00
Spiked Amount	25.000					
			Recovery	=	103.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	372783	22.762	ng	99
3) Dichlorodifluoromethan...	4.83	85	610303	22.800	ng	99
4) Chloromethane	5.15	50	470357	26.153	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	266041	24.462	ng	98
6) Vinyl Chloride	5.59	62	440187	25.475	ng	98
7) 1,3-Butadiene	5.87	54	341677	27.589	ng	98
8) Bromomethane	6.35	94	287643	27.346	ng	99
9) Chloroethane	6.69	64	244762	24.371	ng	98
10) Ethanol	7.15	45	1296320	124.871	ng	100
11) Acetonitrile	7.38	41	687211	22.604	ng	100
12) Acrolein	7.58	56	203458	25.747	ng	98
13) Acetone	7.85	58	1224977	125.059	ng	98
14) Trichlorofluoromethane	8.01	101	586848	24.249	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1711755	44.469	ng	100
16) Acrylonitrile	8.57	53	479431	27.089	ng	99
17) 1,1-Dichloroethene	9.03	96	310330	27.616	ng	92
18) 2-Methyl-2-Propanol (t...	9.33	59	1753114	51.311	ng	98
19) Methylene Chloride	9.26	84	314029	23.873	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	592052	23.348	ng	99
21) Trichlorotrifluoroethane	9.68	151	249618	28.368	ng	98
22) Carbon Disulfide	9.63	76	1135664	24.487	ng	99
23) trans-1,2-Dichloroethene	10.69	61	514272	25.864	ng	97
24) 1,1-Dichloroethane	11.00	63	617936	25.628	ng	99
25) Methyl tert-Butyl Ether	11.23	73	950000	25.633	ng	100
26) Vinyl Acetate	11.30	86	177094	88.842	ng	# 94
27) 2-Butanone (MEK)	11.71	72	233396	26.390	ng	98
28) cis-1,2-Dichloroethene	12.26	61	497051	26.856	ng	98
29) Diisopropyl Ether	12.68	87	313290	26.470	ng	# 1
30) Ethyl Acetate	12.71	61	234351	50.865	ng	100
31) n-Hexane	12.59	57	571801	24.261	ng	98

484

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	539974	26.023	ng	100
34) Tetrahydrofuran (THF)	13.45	72	224798	23.845	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	370406	24.192	ng	97
36) 1,2-Dichloroethane	13.80	62	484412	25.544	ng	98
38) 1,1,1-Trichloroethane	14.19	97	519036	24.987	ng	98
39) Isopropyl Acetate	14.87	61	451344	49.686	ng	# 86
40) 1-Butanol	14.94	56	736605	46.349	ng	81
41) Benzene	14.89	78	1265289	23.502	ng	99
42) Carbon Tetrachloride	15.11	117	450418	26.249	ng	100
43) Cyclohexane	15.31	84	972612	49.322	ng	98
44) tert-Amyl Methyl Ether	15.89	73	971883	24.038	ng	100
45) 1,2-Dichloropropane	16.12	63	344710	25.493	ng	100
46) Bromodichloromethane	16.39	83	451868	25.469	ng	99
47) Trichloroethene	16.45	130	316605	26.073	ng	98
48) 1,4-Dioxane	16.55	88	267355	25.984	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	1523182	24.019	ng	97
50) Methyl Methacrylate	16.79	100	272103	54.901	ng	95
51) n-Heptane	16.89	71	350866	24.283	ng	99
52) cis-1,3-Dichloropropene	17.66	75	537674	23.993	ng	99
53) 4-Methyl-2-pentanone	17.79	58	336616	26.015	ng	99
54) trans-1,3-Dichloropropene	18.37	75	569561	26.731	ng	99
55) 1,1,2-Trichloroethane	18.61	97	303093	25.641	ng	97
58) Toluene	18.99	91	1339186	25.367	ng	99
59) 2-Hexanone	19.39	43	883623	25.170	ng	98
60) Dibromochloromethane	19.54	129	352845	28.249	ng	98
61) 1,2-Dibromoethane	19.87	107	345699	26.105	ng	98
62) n-Butyl Acetate	20.20	43	981251	23.714	ng	100
63) n-Octane	20.28	57	319723	25.050	ng	97
64) Tetrachloroethene	20.48	166	313916	25.696	ng	99
65) Chlorobenzene	21.35	112	837660	25.646	ng	100
66) Ethylbenzene	21.83	91	1521202	25.207	ng	99
67) m- & p-Xylenes	22.07	91	2387430	48.904	ng	99
68) Bromoform	22.16	173	274178	26.436	ng	99
69) Styrene	22.52	104	931476	26.398	ng	100
70) o-Xylene	22.66	91	1225251	25.032	ng	98
71) n-Nonane	22.92	43	765549	23.539	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	551441	25.386	ng	100
74) Cumene	23.41	105	1481888	23.968	ng	99
75) alpha-Pinene	23.91	93	760032	23.981	ng	100
76) n-Propylbenzene	24.05	91	1878570	24.170	ng	100
77) 3-Ethyltoluene	24.18	105	1492441	25.257	ng	99
78) 4-Ethyltoluene	24.23	105	1464128	25.572	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1255212	25.994	ng	98

485

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	680016	26.303	ng	97
81) 2-Ethyltoluene	24.57	105	1474596	24.747	ng	100
82) 1,2,4-Trimethylbenzene	24.84	105	1248319	25.349	ng	100
83) n-Decane	24.94	57	783579	24.473	ng	99
84) Benzyl Chloride	25.01	91	1232630	26.703	ng	100
85) 1,3-Dichlorobenzene	25.03	146	665342	26.696	ng	98
86) 1,4-Dichlorobenzene	25.11	146	674734	25.391	ng	98
87) sec-Butylbenzene	25.17	105	1664439	25.020	ng	100
88) 4-Isopropyltoluene (p-...	25.36	119	1472106	24.816	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1264769	25.211	ng	97
90) 1,2-Dichlorobenzene	25.54	146	618612	26.180	ng	100
91) d-Limonene	25.53	68	540824	25.826	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	235275	28.950	ng	92
93) n-Undecane	26.46	57	834523	24.499	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	459074	28.256	ng	99
95) Naphthalene	27.74	128	1677315	25.080	ng	100
96) n-Dodecane	27.70	57	837508	21.164	ng	99
97) Hexachlorobutadiene	28.15	225	258900	25.054	ng	99
98) Cyclohexanone	22.34	55	491779	22.484	ng	98
99) tert-Butylbenzene	24.83	119	1186643	24.898	ng	99
100) n-Butylbenzene	25.87	91	1423055	25.944	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\06\

Name: 25ng TO-15 ICV STD

Operator: WA

Misc Info: S20-07200902/S20-07240917

Date Acquired: 8/6/09

18:51

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.67	22.8	26.3	86.7	70	130	*
3)	Dichlorodifluoromethane (CFC	4.83	22.8	26.0	87.7	70	130	*
4)	Chloromethane	5.15	26.2	25.0	104.8	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.40	24.5	26.0	94.2	70	130	*
6)	Vinyl Chloride	5.60	25.5	25.3	100.8	70	130	*
7)	1,3-Butadiene	5.87	27.6	26.8	103.0	70	130	*
8)	Bromomethane	6.35	27.3	25.8	105.8	70	130	*
9)	Chloroethane	6.69	24.4	25.5	95.7	70	130	*
10)	Ethanol	7.15	124.9	130.0	96.1	70	130	*
11)	Acetonitrile	7.38	22.6	26.0	86.9	70	130	*
12)	Acrolein	7.58	25.7	26.3	97.7	70	130	*
13)	Acetone	7.85	125.1	132.0	94.8	70	130	*
14)	Trichlorofluoromethane	8.01	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.38	44.5	48.0	92.7	70	130	*
16)	Acrylonitrile	8.57	27.1	25.8	105.0	70	130	*
17)	1,1-Dichloroethene	9.03	27.6	27.5	100.4	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.33	51.3	50.0	102.6	70	130	*
19)	Methylene Chloride	9.26	23.9	26.8	89.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.43	23.3	27.0	86.3	70	130	*
21)	Trichlorotrifluoroethane	9.68	28.4	27.5	103.3	70	130	*
22)	Carbon Disulfide	9.63	24.5	26.0	94.2	70	130	*
23)	trans-1,2-Dichloroethene	10.69	25.9	25.5	101.6	70	130	*
24)	1,1-Dichloroethane	11.00	25.6	26.5	96.6	70	130	*
25)	Methyl tert-Butyl Ether	11.23	25.6	26.3	97.3	70	130	*
26)	Vinyl Acetate	11.30	88.8	126.0	70.5	70	130	*
27)	2-Butanone (MEK)	11.71	26.4	26.8	98.5	70	130	*
28)	cis-1,2-Dichloroethene	12.26	26.9	27.0	99.6	70	130	*
29)	Diisopropyl Ether	12.68	26.5	26.5	100.0	70	130	*
30)	Ethyl Acetate	12.71	50.9	52.0	97.9	70	130	*
31)	n-Hexane	12.59	24.3	26.0	93.5	70	130	*
32)	Chloroform	12.70	26.0	27.5	94.5	70	130	*
34)	Tetrahydrofuran (THF)	13.45	23.8	26.5	89.8	70	130	*
35)	Ethyl tert-Butyl Ether	13.49	24.2	25.5	94.9	70	130	*
36)	1,2-Dichloroethane	13.80	25.5	26.3	97.0	70	130	*
38)	1,1,1-Trichloroethane	14.19	25.0	26.0	96.2	70	130	*
39)	Isopropyl Acetate	14.87	49.7	52.3	95.0	70	130	*
40)	1-Butanol	14.94	46.3	52.8	87.7	70	130	*
41)	Benzene	14.89	23.5	25.8	91.1	70	130	*
42)	Carbon Tetrachloride	15.11	26.2	26.3	99.6	70	130	*
43)	Cyclohexane	15.31	49.3	51.8	95.2	70	130	*
44)	tert-Amyl Methyl Ether	15.89	24.0	25.5	94.1	70	130	*
45)	1,2-Dichloropropane	16.12	25.5	26.0	98.1	70	130	*
46)	Bromodichloromethane	16.39	25.5	26.3	97.0	70	130	*
47)	Trichloroethene	16.45	26.1	25.8	101.2	70	130	*
48)	1,4-Dioxane	16.55	26.0	26.0	100.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.53	24.0	25.8	93.0	70	130	*
50)	Methyl Methacrylate	16.79	54.9	52.8	104.0	70	130	*

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\06\

Name: 25ng TO-15 ICV STD

Operator: WA

Misc Info: S20-07200902/S20-07240917

Date Acquired: 8/6/09 18:51

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.89	24.3	25.8	94.2	70	130	*
52)	cis-1,3-Dichloropropene	17.66	24.0	24.5	98.0	70	130	*
53)	4-Methyl-2-pentanone	17.79	26.0	26.8	97.0	70	130	*
54)	trans-1,3-Dichloropropene	18.37	26.7	27.0	98.9	70	130	*
55)	1,1,2-Trichloroethane	18.61	25.6	26.0	98.5	70	130	*
58)	Toluene	18.99	25.4	26.8	94.8	70	130	*
59)	2-Hexanone	19.39	25.2	27.0	93.3	70	130	*
60)	Dibromochloromethane	19.54	28.2	28.3	99.6	70	130	*
61)	1,2-Dibromoethane	19.87	26.1	26.3	99.2	70	130	*
62)	n-Butyl Acetate	20.20	23.7	27.5	86.2	70	130	*
63)	n-Octane	20.28	25.1	26.3	95.4	70	130	*
64)	Tetrachloroethene	20.48	25.7	25.3	101.6	70	130	*
65)	Chlorobenzene	21.35	25.6	26.5	96.6	70	130	*
66)	Ethylbenzene	21.83	25.2	26.3	95.8	70	130	*
67)	m- & p-Xylenes	22.07	48.9	51.5	95.0	70	130	*
68)	Bromoform	22.16	26.4	26.5	99.6	70	130	*
69)	Styrene	22.52	26.4	26.3	100.4	70	130	*
70)	o-Xylene	22.66	25.0	26.0	96.2	70	130	*
71)	n-Nonane	22.92	23.5	25.8	91.1	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.64	25.4	27.0	94.1	70	130	*
74)	Cumene	23.41	24.0	25.3	94.9	70	130	*
75)	alpha-Pinene	23.91	24.0	24.8	96.8	70	130	*
76)	n-Propylbenzene	24.05	24.2	25.3	95.7	70	130	*
77)	3-Ethyltoluene	24.18	25.3	26.3	96.2	70	130	*
78)	4-Ethyltoluene	24.23	25.6	26.3	97.3	70	130	*
79)	1,3,5-Trimethylbenzene	24.33	26.0	26.5	98.1	70	130	*
80)	alpha-Methylstyrene	24.51	26.3	26.0	101.2	70	130	*
81)	2-Ethyltoluene	24.57	24.7	26.0	95.0	70	130	*
82)	1,2,4-Trimethylbenzene	24.84	25.3	25.5	99.2	70	130	*
83)	n-Decane	24.94	24.5	26.3	93.2	70	130	*
84)	Benzyl Chloride	25.01	26.7	26.8	99.6	70	130	*
85)	1,3-Dichlorobenzene	25.03	26.7	26.0	102.7	70	130	*
86)	1,4-Dichlorobenzene	25.11	25.4	26.3	96.6	70	130	*
87)	sec-Butylbenzene	25.17	25.0	25.8	96.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.36	24.8	25.0	99.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.36	25.2	26.0	96.9	70	130	*
90)	1,2-Dichlorobenzene	25.54	26.2	25.8	101.6	70	130	*
91)	d-Limonene	25.53	25.8	26.5	97.4	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.07	28.9	27.0	107.0	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.59	28.3	27.3	103.7	70	130	*
95)	Naphthalene	27.74	25.1	25.0	100.4	70	130	*
96)	n-Dodecane	27.70	21.2	24.3	87.2	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.34	22.5	24.8	90.7	70	130	*
99)	tert-Butylbenzene	24.83	24.9	26.5	94.0	70	130	*
100)	n-Butylbenzene	25.87	25.9	26.5	97.7	70	130	*

* Denotes Passing Criterion

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	124	-0.02
2	T Propene	1.716	1.983	-15.6	147	0.00
3	T Dichlorodifluoromethane (CF	2.804	2.874	-2.5	133	0.00
4	T Chloromethane	1.884	2.039	-8.2	149	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.251	-9.8	150	0.00
6	T Vinyl Chloride	1.810	2.014	-11.3	142	0.00
7	T 1,3-Butadiene	1.297	1.391	-7.2	141	0.00
8	T Bromomethane	1.102	1.120	-1.6	135	0.00
9	T Chloroethane	1.052	0.970	7.8	117	0.00
10	T Ethanol	1.087	1.113	-2.4	139	-0.15
11	T Acetonitrile	3.185	3.059	4.0	132	-0.05
12	T Acrolein	0.828	0.793	4.2	120	-0.02
13	T Acetone	1.026	1.112	-8.4	136	-0.06
14	T Trichlorofluoromethane	2.535	2.764	-9.0	146	0.00
15	T 2-Propanol (Isopropanol)	4.032	3.642	9.7	142	-0.11
16	T Acrylonitrile	1.854	2.012	-8.5	132	-0.04
17	T 1,1-Dichloroethene	1.177	1.348	-14.5	148	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.789	-5.9	132	-0.10
19	T Methylene Chloride	1.378	1.391	-0.9	140	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	2.391	10.0	124	-0.02
21	T Trichlorotrifluoroethane	0.922	1.079	-17.0	154	0.00
22	T Carbon Disulfide	4.858	5.205	-7.1	142	0.00
23	T trans-1,2-Dichloroethene	2.083	2.190	-5.1	133	-0.02
24	T 1,1-Dichloroethane	2.526	2.558	-1.3	135	-0.02
25	T Methyl tert-Butyl Ether	3.882	3.786	2.5	129	-0.03
26	T Vinyl Acetate	0.209	0.273	-30.6#	192	-0.03
27	T 2-Butanone (MEK)	0.926	0.952	-2.8	129	-0.05
28	T cis-1,2-Dichloroethene	1.939	1.991	-2.7	131	-0.02
29	T Diisopropyl Ether	1.240	1.324	-6.8	136	-0.04
30	T Ethyl Acetate	0.483	0.513	-6.2	130	-0.05
31	T n-Hexane	2.469	2.372	3.9	130	-0.01
32	T Chloroform	2.174	2.428	-11.7	142	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	2.074	4.6	119	-0.03
34	T Tetrahydrofuran (THF)	0.988	0.959	2.9	139	-0.04
35	T Ethyl tert-Butyl Ether	1.604	1.619	-0.9	134	-0.03
36	T 1,2-Dichloroethane	1.986	2.052	-3.3	138	-0.03
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	123	-0.02
38	T 1,1,1-Trichloroethane	0.424	0.426	-0.5	133	-0.02

490

WA 8/24/09

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.185	0.187	-1.1	130	-0.04
40 T	1-Butanol	0.324	0.314	3.1	135	-0.10
41 T	Benzene	1.099	1.112	-1.2	138	-0.02
42 T	Carbon Tetrachloride	0.350	0.361	-3.1	132	-0.02
43 T	Cyclohexane	0.403	0.410	-1.7	132	-0.02
44 T	tert-Amyl Methyl Ether	0.825	0.838	-1.6	133	-0.04
45 T	1,2-Dichloropropane	0.276	0.281	-1.8	132	-0.02
46 T	Bromodichloromethane	0.362	0.385	-6.4	139	-0.02
47 T	Trichloroethene	0.248	0.279	-12.5	147	-0.02
48 T	1,4-Dioxane	0.210	0.231	-10.0	138	-0.04
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.334	-3.0	133	-0.02
50 T	Methyl Methacrylate	0.101	0.108	-6.9	135	-0.04
51 T	n-Heptane	0.295	0.311	-5.4	139	-0.02
52 T	cis-1,3-Dichloropropene	0.458	0.465	-1.5	133	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.270	-2.3	132	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.434	0.2	131	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.253	-5.0	137	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	116	-0.01
57 S	Toluene-d8 (SS2)	2.184	2.314	-6.0	124	-0.01
58 T	Toluene	2.147	2.428	-13.1	144	-0.02
59 T	2-Hexanone	1.428	1.519	-6.4	129	-0.04
60 T	Dibromochloromethane	0.508	0.573	-12.8	138	-0.01
61 T	1,2-Dibromoethane	0.539	0.602	-11.7	137	-0.02
62 T	n-Butyl Acetate	1.683	1.677	0.4	126	-0.03
63 T	n-Octane	0.519	0.565	-8.9	134	-0.02
64 T	Tetrachloroethene	0.497	0.583	-17.3	148	-0.01
65 T	Chlorobenzene	1.328	1.497	-12.7	143	-0.01
66 T	Ethylbenzene	2.454	2.766	-12.7	140	-0.01
67 T	m- & p-Xylenes	1.985	2.195	-10.6	140	-0.02
68 T	Bromoform	0.422	0.496	-17.5	140	-0.02
69 T	Styrene	1.435	1.611	-12.3	140	-0.02
70 T	o-Xylene	1.990	2.245	-12.8	140	-0.02
71 T	n-Nonane	1.323	1.353	-2.3	128	-0.01
72 T	1,1,2,2-Tetrachloroethane	0.883	0.995	-12.7	138	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.622	-8.0	125	0.00
74 T	Cumene	2.514	2.840	-13.0	143	-0.02
75 T	alpha-Pinene	1.289	1.433	-11.2	137	-0.01
76 T	n-Propylbenzene	3.161	3.631	-14.9	142	-0.01

491

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

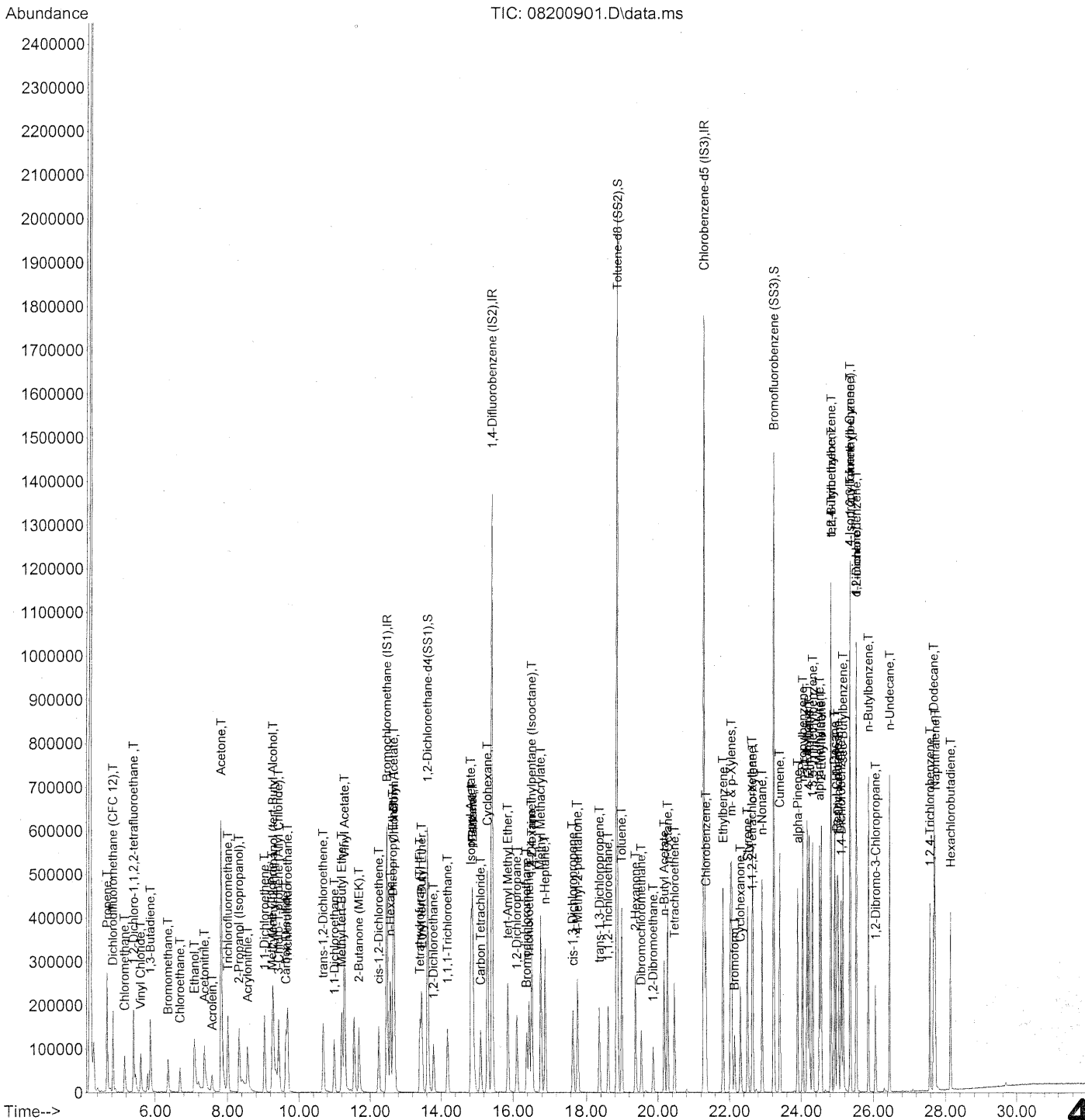
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.690	-11.9	140	-0.02
78 T	4-Ethyltoluene	2.328	2.656	-14.1	144	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.221	-13.1	141	-0.02
80 T	alpha-Methylstyrene	1.051	1.187	-12.9	137	-0.02
81 T	2-Ethyltoluene	2.423	2.751	-13.5	141	-0.02
82 T	1,2,4-Trimethylbenzene	2.003	2.304	-15.0	141	-0.02
83 T	n-Decane	1.302	1.389	-6.7	130	-0.02
84 T	Benzyl Chloride	1.877	2.211	-17.8	140	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.178	-16.3	146	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.219	-12.8	145	-0.02
87 T	sec-Butylbenzene	2.705	3.133	-15.8	143	-0.02
88 T	4-Isopropyltoluene (p-Cymen	2.412	2.900	-20.2	146	-0.02
89 T	1,2,3-Trimethylbenzene	2.040	2.350	-15.2	141	-0.02
90 T	1,2-Dichlorobenzene	0.961	1.145	-19.1	147	-0.02
91 T	d-Limonene	0.852	0.952	-11.7	136	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.414	-25.5	144	-0.01
93 T	n-Undecane	1.385	1.513	-9.2	133	-0.01
94 T	1,2,4-Trichlorobenzene	0.661	0.828	-25.3	152	-0.01
95 T	Naphthalene	2.720	3.241	-19.2	145	-0.01
96 T	n-Dodecane	1.609	1.749	-8.7	137	-0.01
97 T	Hexachlorobutadiene	0.420	0.466	-11.0	149	0.00
98 T	Cyclohexanone	0.889	0.933	-4.9	131	-0.04
99 T	tert-Butylbenzene	1.938	2.222	-14.7	143	-0.02
100 T	n-Butylbenzene	2.231	2.640	-18.3	142	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\20\
Data File : 08200901.D
Acq On : 20 Aug 2009 7:33
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-08140906/S20-07310904
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	310010	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1560341	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	745582	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	643012	23.864	ng	-0.03
Spiked Amount	25.000		Recovery	=	95.44%	
57) Toluene-d8 (SS2)	18.85	98	1725277	26.483	ng	-0.01
Spiked Amount	25.000		Recovery	=	105.92%	
73) Bromofluorobenzene (SS3)	23.24	174	463691	26.990	ng	0.00
Spiked Amount	25.000		Recovery	=	107.96%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	131535	6.183	ng	98
3) Dichlorodifluoromethan...	4.84	85	187086	5.381	ng	98
4) Chloromethane	5.16	50	126450	5.413	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	82249	5.822	ng	98
6) Vinyl Chloride	5.59	62	126133	5.620	ng	99
7) 1,3-Butadiene	5.87	54	103465	6.432	ng	99
8) Bromomethane	6.35	94	70862	5.186	ng	99
9) Chloroethane	6.69	64	60719	4.654	ng	96
10) Ethanol	7.09	45	358913	26.616	ng	100
11) Acetonitrile	7.37	41	199141	5.043	ng	99
12) Acrolein	7.57	56	53124	5.175	ng	91
13) Acetone	7.82	58	379035	29.791	ng	95
14) Trichlorofluoromethane	8.01	101	179973	5.725	ng	99
15) 2-Propanol (Isopropanol)	8.32	45	426786	8.536	ng	95
16) Acrylonitrile	8.56	53	132219	5.751	ng	98
17) 1,1-Dichloroethene	9.03	96	91945	6.299	ng	87
18) 2-Methyl-2-Propanol (t...	9.27	59	474528	10.692	ng	95
19) Methylene Chloride	9.25	84	92259	5.399	ng	95
20) 3-Chloro-1-propene (Al...	9.43	41	160082	4.860	ng	97
21) Trichlorotrifluoroethane	9.68	151	73591	6.439	ng	98
22) Carbon Disulfide	9.63	76	345320	5.732	ng	100
23) trans-1,2-Dichloroethene	10.68	61	143937	5.573	ng	92
24) 1,1-Dichloroethane	10.99	63	168101	5.367	ng	99
25) Methyl tert-Butyl Ether	11.20	73	255882	5.315	ng	99
26) Vinyl Acetate	11.28	86	85100	32.866	ng	# 93
27) 2-Butanone (MEK)	11.68	72	64913	5.650	ng	98
28) cis-1,2-Dichloroethene	12.25	61	134531	5.596	ng	92
29) Diisopropyl Ether	12.66	87	87805	5.711	ng	# 1
30) Ethyl Acetate	12.68	61	68066	11.374	ng	99
31) n-Hexane	12.58	57	160279	5.235	ng	100

494

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	161100	5.977	ng	99
34) Tetrahydrofuran (THF)	13.41	72	65420	5.342	ng	99
35) Ethyl tert-Butyl Ether	13.46	87	103419	5.200	ng	97
36) 1,2-Dichloroethane	13.79	62	134852	5.474	ng	97
38) 1,1,1-Trichloroethane	14.18	97	139476	5.270	ng	98
39) Isopropyl Acetate	14.84	61	122399	10.575	ng #	87
40) 1-Butanol	14.88	56	203585	10.053	ng	81
41) Benzene	14.88	78	367862	5.362	ng	99
42) Carbon Tetrachloride	15.11	117	121659	5.564	ng	100
43) Cyclohexane	15.30	84	276101	10.988	ng	96
44) tert-Amyl Methyl Ether	15.86	73	272052	5.281	ng	99
45) 1,2-Dichloropropane	16.11	63	92192	5.351	ng	99
46) Bromodichloromethane	16.37	83	129773	5.740	ng	99
47) Trichloroethene	16.45	130	92363	5.969	ng	100
48) 1,4-Dioxane	16.52	88	76969	5.871	ng	78
49) 2,2,4-Trimethylpentane...	16.52	57	432863	5.357	ng	96
50) Methyl Methacrylate	16.77	100	71919	11.388	ng	100
51) n-Heptane	16.88	71	102941	5.591	ng	97
52) cis-1,3-Dichloropropene	17.65	75	143588	5.028	ng	99
53) 4-Methyl-2-pentanone	17.77	58	92583	5.615	ng	99
54) trans-1,3-Dichloropropene	18.36	75	148994	5.488	ng	100
55) 1,1,2-Trichloroethane	18.60	97	82977	5.509	ng	99
58) Toluene	18.98	91	390987	6.107	ng	99
59) 2-Hexanone	19.37	43	249190	5.853	ng	99
60) Dibromochloromethane	19.53	129	98197	6.482	ng	98
61) 1,2-Dibromoethane	19.86	107	95199	5.928	ng	98
62) n-Butyl Acetate	20.18	43	275147	5.483	ng	98
63) n-Octane	20.28	57	90217	5.828	ng	95
64) Tetrachloroethene	20.47	166	88727	5.989	ng	100
65) Chlorobenzene	21.34	112	241069	6.086	ng	100
66) Ethylbenzene	21.82	91	437222	5.974	ng	100
67) m- & p-Xylenes	22.06	91	680920	11.501	ng	99
68) Bromoform	22.15	173	76169	6.056	ng	100
69) Styrene	22.51	104	257092	6.008	ng	99
70) o-Xylene	22.65	91	354891	5.978	ng	98
71) n-Nonane	22.91	43	213924	5.424	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	158789	6.028	ng	99
74) Cumene	23.41	105	436240	5.818	ng	99
75) alpha-Pinene	23.90	93	215779	5.614	ng	98
76) n-Propylbenzene	24.05	91	557713	5.917	ng	99
77) 3-Ethyltoluene	24.17	105	437188	6.101	ng	99
78) 4-Ethyltoluene	24.23	105	431710	6.217	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	360979	6.164	ng	99

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 08:03:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	189315	6.038	ng	96
81) 2-Ethyltoluene	24.56	105	430787	5.961	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	364239	6.099	ng	100
83) n-Decane	24.93	57	223699	5.761	ng	97
84) Benzyl Chloride	25.00	91	362716	6.479	ng	100
85) 1,3-Dichlorobenzene	25.02	146	191404	6.333	ng	98
86) 1,4-Dichlorobenzene	25.11	146	192692	5.979	ng	97
87) sec-Butylbenzene	25.16	105	495226	6.138	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	445347	6.190	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	375021	6.164	ng	97
90) 1,2-Dichlorobenzene	25.53	146	181007	6.316	ng	100
91) d-Limonene	25.53	68	154742	6.093	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.06	157	67827	6.882	ng	91
93) n-Undecane	26.46	57	245953	5.954	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	138326	7.020	ng	98
95) Naphthalene	27.73	128	512326	6.317	ng	99
96) n-Dodecane	27.69	57	258166	5.379	ng	99
97) Hexachlorobutadiene	28.15	225	76439	6.099	ng	98
98) Cyclohexanone	22.31	55	136296	5.138	ng	98
99) tert-Butylbenzene	24.83	119	351149	6.075	ng	99
100) n-Butylbenzene	25.86	91	429049	6.450	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	109	-0.02
2	T Propene	1.716	1.706	0.6	110	0.01
3	T Dichlorodifluoromethane (CF	2.804	2.794	0.4	113	0.01
4	T Chloromethane	1.884	1.864	1.1	119	0.01
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.185	-4.0	124	0.01
6	T Vinyl Chloride	1.810	1.831	-1.2	112	0.00
7	T 1,3-Butadiene	1.297	1.344	-3.6	119	0.00
8	T Bromomethane	1.102	1.055	4.3	111	0.00
9	T Chloroethane	1.052	1.013	3.7	106	0.00
10	T Ethanol	1.087	1.051	3.3	115	-0.15
11	T Acetonitrile	3.185	2.762	13.3	104	-0.06
12	T Acrolein	0.828	0.783	5.4	103	-0.03
13	T Acetone	1.026	1.052	-2.5	112	-0.06
14	T Trichlorofluoromethane	2.535	2.663	-5.0	122	0.00
15	T 2-Propanol (Isopropanol)	4.032	3.380	16.2	115	-0.11
16	T Acrylonitrile	1.854	1.815	2.1	104	-0.04
17	T 1,1-Dichloroethene	1.177	1.293	-9.9	124	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.747	-4.7	114	-0.10
19	T Methylene Chloride	1.378	1.371	0.5	121	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	2.311	13.0	104	-0.02
21	T Trichlorotrifluoroethane	0.922	1.090	-18.2	136	0.00
22	T Carbon Disulfide	4.858	4.952	-1.9	118	0.00
23	T trans-1,2-Dichloroethene	2.083	2.108	-1.2	112	-0.02
24	T 1,1-Dichloroethane	2.526	2.475	2.0	114	-0.02
25	T Methyl tert-Butyl Ether	3.882	4.004	-3.1	119	-0.03
26	T Vinyl Acetate	0.209	0.251	-20.1	154	-0.03
27	T 2-Butanone (MEK)	0.926	0.920	0.6	109	-0.05
28	T cis-1,2-Dichloroethene	1.939	1.917	1.1	110	-0.02
29	T Diisopropyl Ether	1.240	1.372	-10.6	123	-0.03
30	T Ethyl Acetate	0.483	0.505	-4.6	112	-0.05
31	T n-Hexane	2.469	2.362	4.3	113	0.00
32	T Chloroform	2.174	2.251	-3.5	115	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	1.939	10.8	97	-0.03
34	T Tetrahydrofuran (THF)	0.988	0.918	7.1	116	-0.04
35	T Ethyl tert-Butyl Ether	1.604	1.574	1.9	114	-0.03
36	T 1,2-Dichloroethane	1.986	1.900	4.3	111	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	109	-0.02
38	T 1,1,1-Trichloroethane	0.424	0.426	-0.5	119	-0.01

497

DA 8/21/09

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
39 T	Isopropyl Acetate	0.185	0.182	1.6	112	-0.04
40 T	1-Butanol	0.324	0.279	13.9	107	-0.10
41 T	Benzene	1.099	1.045	4.9	115	-0.02
42 T	Carbon Tetrachloride	0.350	0.371	-6.0	120	-0.01
43 T	Cyclohexane	0.403	0.413	-2.5	118	-0.02
44 T	tert-Amyl Methyl Ether	0.825	0.796	3.5	112	-0.04
45 T	1,2-Dichloropropane	0.276	0.272	1.4	113	-0.02
46 T	Bromodichloromethane	0.362	0.356	1.7	114	-0.02
47 T	Trichloroethene	0.248	0.271	-9.3	127	-0.02
48 T	1,4-Dioxane	0.210	0.223	-6.2	118	-0.04
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.217	6.0	108	-0.01
50 T	Methyl Methacrylate	0.101	0.112	-10.9	124	-0.04
51 T	n-Heptane	0.295	0.283	4.1	112	-0.02
52 T	cis-1,3-Dichloropropene	0.458	0.452	1.3	115	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.256	3.0	111	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.428	1.6	114	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.254	-5.4	122	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	102	-0.01
57 S	Toluene-d8 (SS2)	2.184	2.282	-4.5	107	-0.01
58 T	Toluene	2.147	2.310	-7.6	121	-0.02
59 T	2-Hexanone	1.428	1.346	5.7	101	-0.04
60 T	Dibromochloromethane	0.508	0.573	-12.8	122	0.00
61 T	1,2-Dibromoethane	0.539	0.600	-11.3	120	-0.02
62 T	n-Butyl Acetate	1.683	1.547	8.1	102	-0.03
63 T	n-Octane	0.519	0.517	0.4	108	-0.02
64 T	Tetrachloroethene	0.497	0.601	-20.9	134	-0.01
65 T	Chlorobenzene	1.328	1.496	-12.7	126	-0.01
66 T	Ethylbenzene	2.454	2.643	-7.7	118	-0.01
67 T	m- & p-Xylenes	1.985	2.125	-7.1	119	-0.02
68 T	Bromoform	0.422	0.498	-18.0	124	-0.02
69 T	Styrene	1.435	1.574	-9.7	121	-0.02
70 T	o-Xylene	1.990	2.115	-6.3	116	-0.02
71 T	n-Nonane	1.323	1.216	8.1	101	0.00
72 T	1,1,2,2-Tetrachloroethane	0.883	0.957	-8.4	117	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.630	-9.4	112	0.00
74 T	Cumene	2.514	2.757	-9.7	122	-0.01
75 T	alpha-Pinene	1.289	1.413	-9.6	119	-0.01
76 T	n-Propylbenzene	3.161	3.424	-8.3	117	0.00

498

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

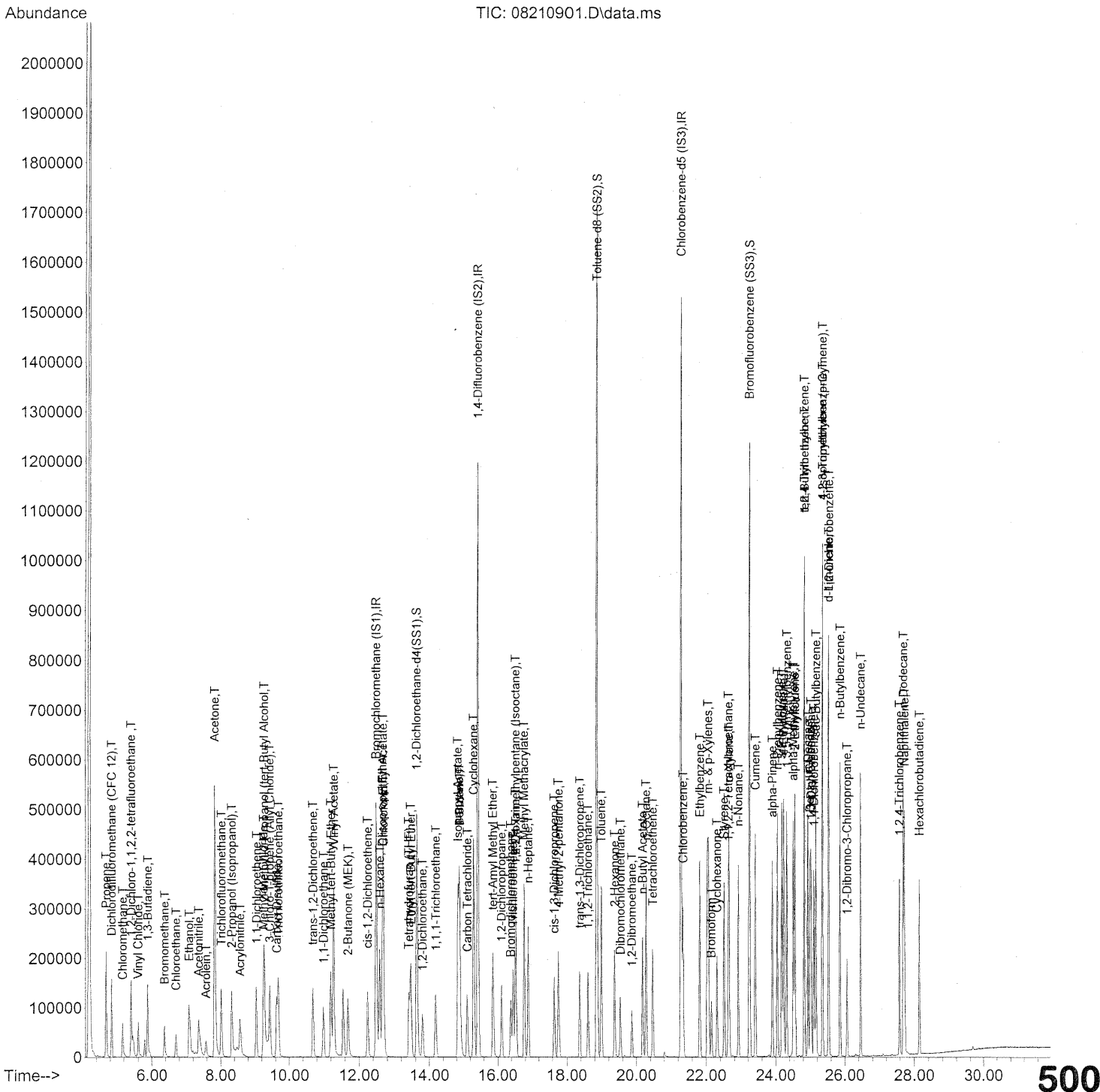
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.605	-8.4	119	-0.01
78 T	4-Ethyltoluene	2.328	2.637	-13.3	126	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.187	-11.4	122	-0.02
80 T	alpha-Methylstyrene	1.051	1.207	-14.8	123	-0.02
81 T	2-Ethyltoluene	2.423	2.723	-12.4	123	-0.02
82 T	1,2,4-Trimethylbenzene	2.003	2.270	-13.3	123	-0.02
83 T	n-Decane	1.302	1.296	0.5	107	-0.01
84 T	Benzyl Chloride	1.877	2.074	-10.5	116	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.186	-17.1	129	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.239	-14.6	129	-0.02
87 T	sec-Butylbenzene	2.705	3.048	-12.7	123	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.412	2.829	-17.3	125	-0.01
89 T	1,2,3-Trimethylbenzene	2.040	2.289	-12.2	121	-0.02
90 T	1,2-Dichlorobenzene	0.961	1.123	-16.9	127	-0.02
91 T	d-Limonene	0.852	0.895	-5.0	112	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.398	-20.6	122	-0.01
93 T	n-Undecane	1.385	1.376	0.6	107	-0.01
94 T	1,2,4-Trichlorobenzene	0.661	0.802	-21.3	129	-0.01
95 T	Naphthalene	2.720	3.130	-15.1	123	-0.01
96 T	n-Dodecane	1.609	1.575	2.1	108	0.00
97 T	Hexachlorobutadiene	0.420	0.473	-12.6	133	0.00
98 T	Cyclohexanone	0.889	0.872	1.9	108	-0.04
99 T	tert-Butylbenzene	1.938	2.217	-14.4	126	-0.02
100 T	n-Butylbenzene	2.231	2.459	-10.2	117	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\21\
Data File : 08210901.D
Acq On : 21 Aug 2009 7:50
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-08140906/S20-07310904
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	270527	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1383883	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	655539	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	524611	22.311	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.24%	
57) Toluene-d8 (SS2)	18.85	98	1495939	26.117	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.48%	
73) Bromofluorobenzene (SS3)	23.24	174	412747	27.325	ng	0.00
Spiked Amount	25.000		Recovery	=	109.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	98792	5.322	ng	97
3) Dichlorodifluoromethan...	4.84	85	158748	5.232	ng	100
4) Chloromethane	5.16	50	100858	4.947	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	67968	5.513	ng	99
6) Vinyl Chloride	5.60	62	100056	5.109	ng	96
7) 1,3-Butadiene	5.87	54	87274	6.217	ng	98
8) Bromomethane	6.36	94	58247	4.885	ng	97
9) Chloroethane	6.70	64	55350	4.862	ng	97
10) Ethanol	7.08	45	295802	25.138	ng	86
11) Acetonitrile	7.36	41	156885	4.552	ng	97
12) Acrolein	7.57	56	45781	5.111	ng	96
13) Acetone	7.82	58	313074	28.198	ng	94
14) Trichlorofluoromethane	8.02	101	151280	5.515	ng	99
15) 2-Propanol (Isopropanol)	8.32	45	345619	7.921	ng	98
16) Acrylonitrile	8.56	53	104109	5.190	ng	97
17) 1,1-Dichloroethene	9.04	96	76974	6.043	ng	# 82
18) 2-Methyl-2-Propanol (t...	9.27	59	409564	10.575	ng	95
19) Methylene Chloride	9.25	84	79372	5.323	ng	88
20) 3-Chloro-1-propene (Al...	9.43	41	135035	4.698	ng	98
21) Trichlorotrifluoroethane	9.69	151	64886	6.505	ng	94
22) Carbon Disulfide	9.63	76	286665	5.453	ng	100
23) trans-1,2-Dichloroethene	10.68	61	120890	5.364	ng	91
24) 1,1-Dichloroethane	10.99	63	141973	5.195	ng	100
25) Methyl tert-Butyl Ether	11.20	73	236109	5.620	ng	99
26) Vinyl Acetate	11.28	86	68258	30.209	ng	# 83
27) 2-Butanone (MEK)	11.68	72	54770	5.463	ng	97
28) cis-1,2-Dichloroethene	12.24	61	113030	5.388	ng	91
29) Diisopropyl Ether	12.66	87	79404	5.919	ng	# 1
30) Ethyl Acetate	12.68	61	58481	11.198	ng	99
31) n-Hexane	12.59	57	139311	5.215	ng	100

501

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	130304	5.540	ng	98
34) Tetrahydrofuran (THF)	13.41	72	54613	5.111	ng	93
35) Ethyl tert-Butyl Ether	13.47	87	87701	5.053	ng	91
36) 1,2-Dichloroethane	13.80	62	108944	5.068	ng	99
38) 1,1,1-Trichloroethane	14.19	97	123947	5.280	ng	97
39) Isopropyl Acetate	14.84	61	105763	10.302	ng	94
40) 1-Butanol	14.88	56	160461	8.934	ng	79
41) Benzene	14.88	78	306710	5.041	ng	98
42) Carbon Tetrachloride	15.11	117	110879	5.718	ng	99
43) Cyclohexane	15.30	84	246736	11.072	ng	93
44) tert-Amyl Methyl Ether	15.86	73	229152	5.015	ng	97
45) 1,2-Dichloropropane	16.11	63	79072	5.175	ng	98
46) Bromodichloromethane	16.38	83	106551	5.314	ng	98
47) Trichloroethene	16.45	130	79362	5.783	ng	99
48) 1,4-Dioxane	16.52	88	65938	5.671	ng	82
49) 2,2,4-Trimethylpentane...	16.53	57	350264	4.887	ng	95
50) Methyl Methacrylate	16.77	100	66398	11.854	ng	# 89
51) n-Heptane	16.89	71	83130	5.091	ng	96
52) cis-1,3-Dichloropropene	17.65	75	123953	4.894	ng	100
53) 4-Methyl-2-pentanone	17.77	58	77878	5.326	ng	99
54) trans-1,3-Dichloropropene	18.36	75	130343	5.413	ng	100
55) 1,1,2-Trichloroethane	18.60	97	73848	5.528	ng	95
58) Toluene	18.98	91	327072	5.810	ng	98
59) 2-Hexanone	19.37	43	194106	5.185	ng	96
60) Dibromochloromethane	19.54	129	86453	6.491	ng	98
61) 1,2-Dibromoethane	19.86	107	83399	5.906	ng	97
62) n-Butyl Acetate	20.18	43	223122	5.057	ng	97
63) n-Octane	20.28	57	72536	5.330	ng	91
64) Tetrachloroethene	20.47	166	80317	6.166	ng	100
65) Chlorobenzene	21.34	112	211782	6.081	ng	100
66) Ethylbenzene	21.82	91	367378	5.709	ng	98
67) m- & p-Xylenes	22.06	91	579380	11.130	ng	97
68) Bromoform	22.15	173	67199	6.076	ng	99
69) Styrene	22.51	104	220855	5.870	ng	98
70) o-Xylene	22.65	91	293882	5.631	ng	96
71) n-Nonane	22.92	43	168998	4.873	ng	93
72) 1,1,2,2-Tetrachloroethane	22.64	83	134298	5.798	ng	100
74) Cumene	23.41	105	372286	5.647	ng	99
75) alpha-Pinene	23.90	93	187161	5.538	ng	99
76) n-Propylbenzene	24.05	91	462384	5.579	ng	98
77) 3-Ethyltoluene	24.18	105	372299	5.909	ng	100
78) 4-Ethyltoluene	24.23	105	376879	6.173	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	312540	6.070	ng	98

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:21:06 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	169329	6.142	ng	97
81) 2-Ethyltoluene	24.56	105	374867	5.900	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	315414	6.007	ng	99
83) n-Decane	24.94	57	183573	5.377	ng	97
84) Benzyl Chloride	25.00	91	299091	6.076	ng	99
85) 1,3-Dichlorobenzene	25.03	146	169529	6.379	ng	98
86) 1,4-Dichlorobenzene	25.11	146	172123	6.074	ng	99
87) sec-Butylbenzene	25.17	105	423555	5.971	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	382044	6.040	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	321056	6.002	ng	96
90) 1,2-Dichlorobenzene	25.53	146	156078	6.194	ng	99
91) d-Limonene	25.53	68	127867	5.726	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.06	157	57462	6.631	ng	86
93) n-Undecane	26.46	57	196628	5.413	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	117835	6.802	ng	99
95) Naphthalene	27.73	128	434993	6.100	ng	99
96) n-Dodecane	27.70	57	204445	4.845	ng	98
97) Hexachlorobutadiene	28.15	225	68191	6.189	ng	99
98) Cyclohexanone	22.31	55	112012	4.803	ng	95
99) tert-Butylbenzene	24.83	119	308153	6.063	ng	99
100) n-Butylbenzene	25.86	91	351456	6.009	ng	99

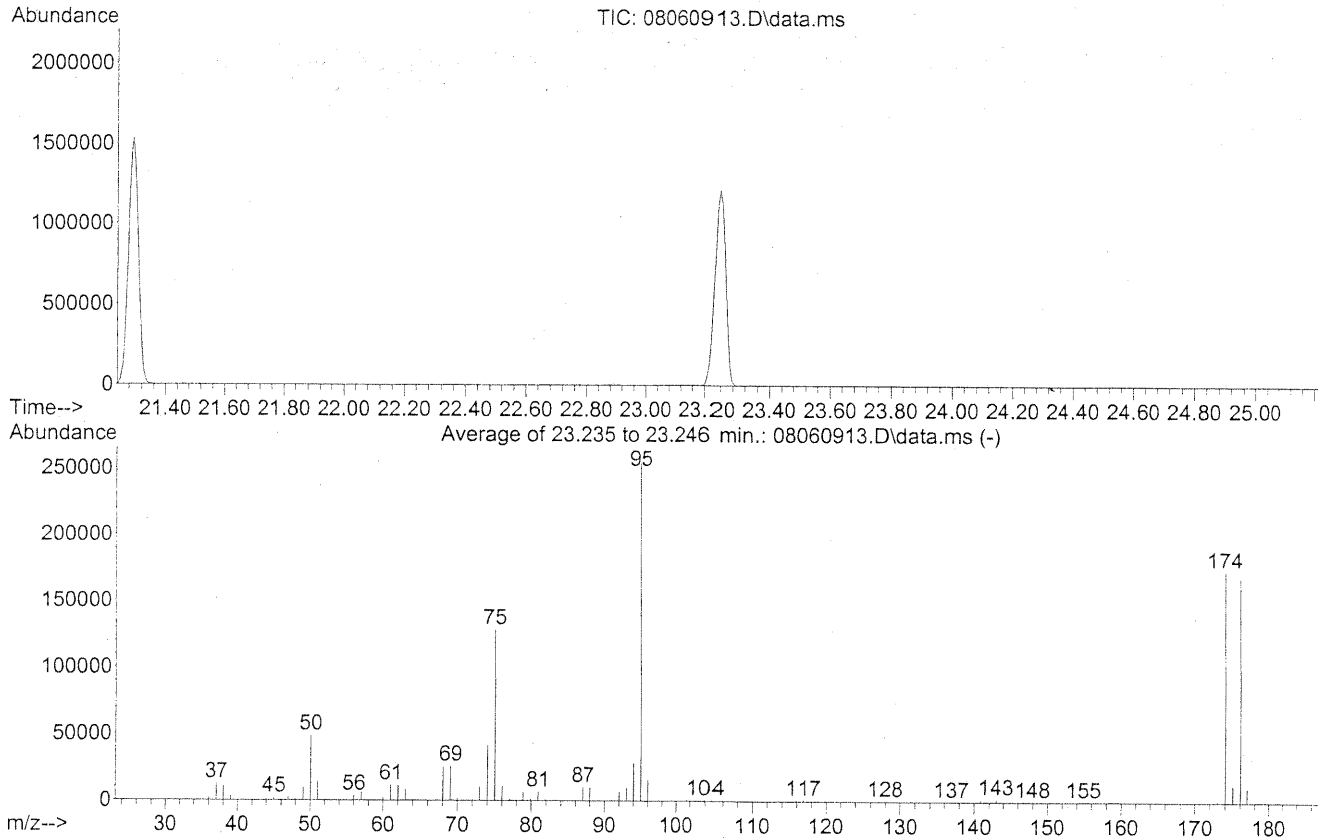
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060913.D
 Acq On : 6 Aug 2009 11:15
 Operator : WA
 Sample : 25ng BFB STD
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 07:59:49 2009



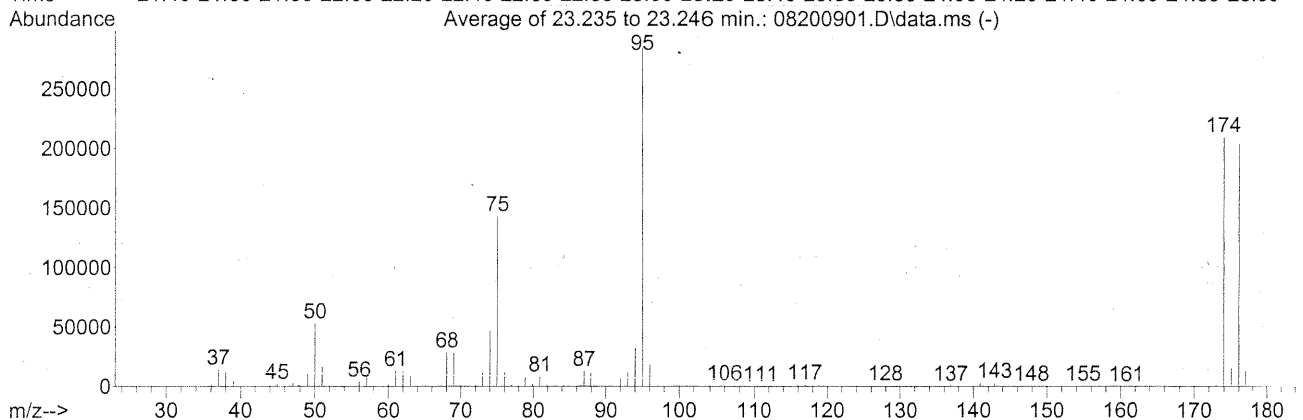
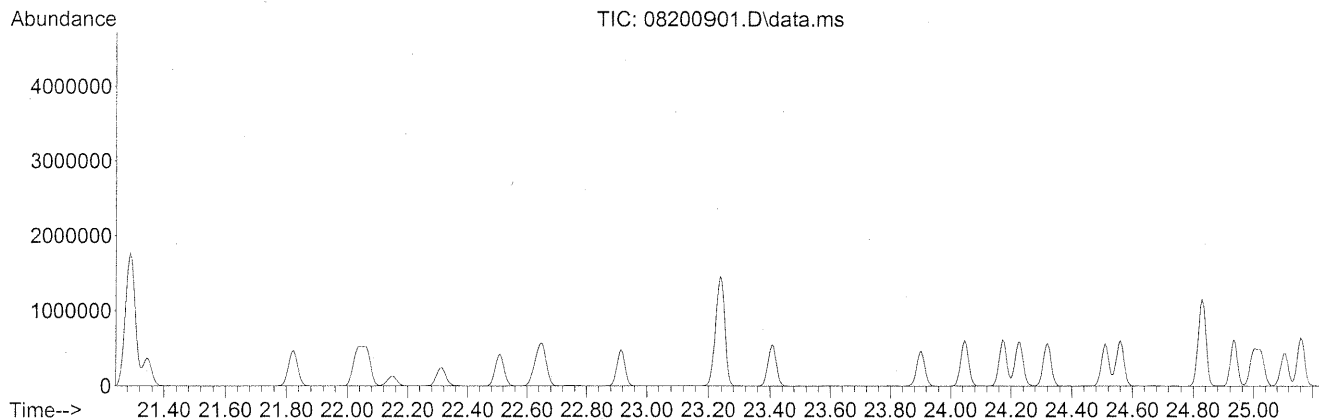
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	48845	PASS
75	95	30	66	50.6	128627	PASS
95	95	100	100	100.0	254165	PASS
96	95	5	9	6.3	16094	PASS
173	174	0.00	2	0.9	1624	PASS
174	95	50	120	68.4	173931	PASS
175	174	4	9	7.5	13043	PASS
176	174	93	101	97.2	168981	PASS
177	176	5	9	6.6	11200	PASS

Data Path : J:\MS13\DATA\2009_08\20\
 Data File : 08200901.D
 Acq On : 20 Aug 2009 7:33
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



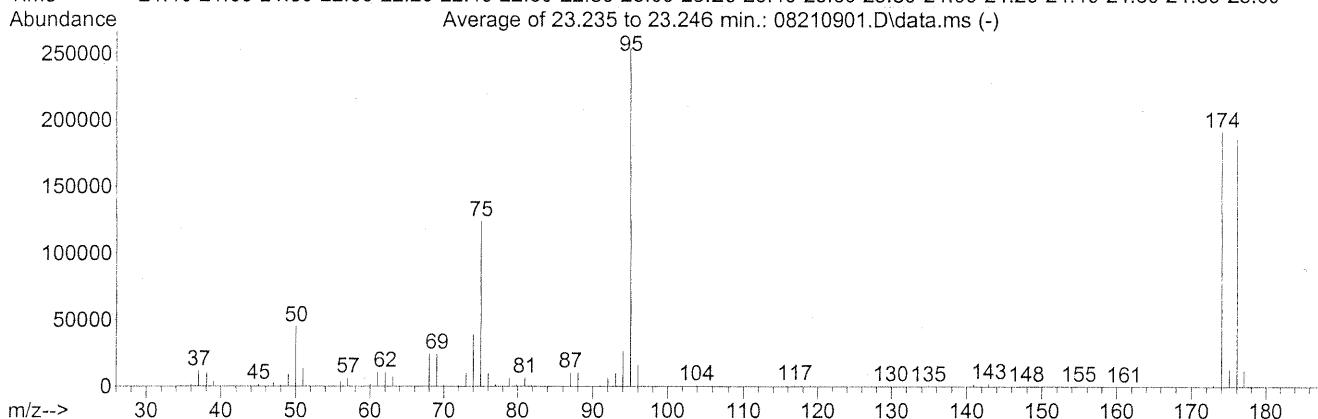
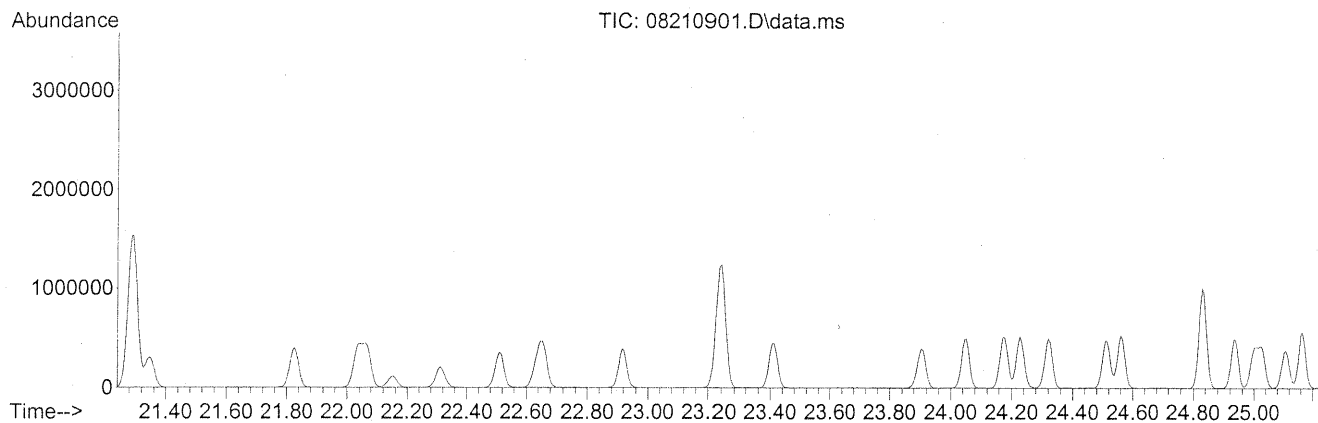
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	53171	PASS
75	95	30	66	50.3	143301	PASS
95	95	100	100	100.0	284757	PASS
96	95	5	9	6.6	18699	PASS
173	174	0.00	2	0.5	1096	PASS
174	95	50	120	73.5	209429	PASS
175	174	4	9	7.4	15500	PASS
176	174	93	101	97.4	204075	PASS
177	176	5	9	6.4	13071	PASS

Data Path : J:\MS13\DATA\2009_08\21\
 Data File : 08210901.D
 Acq On : 21 Aug 2009 7:50
 Operator : WA
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	45155	PASS
75	95	30	66	48.8	123997	PASS
95	95	100	100	100.0	253909	PASS
96	95	5	9	6.4	16318	PASS
173	174	0.00	2	0.9	1717	PASS
174	95	50	120	75.5	191659	PASS
175	174	4	9	7.1	13552	PASS
176	174	93	101	97.1	186155	PASS
177	176	5	9	6.7	12519	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	08/06/09 11:15	08060913.D	25ng BFB STD	S20-07200902	WA	4	Passed
14	08/06/09 11:55	08060914.D	0.1ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
15	08/06/09 12:36	08060915.D	0.2ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
16	08/06/09 13:17	08060916.D	0.5ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
17	08/06/09 13:57	08060917.D	1.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
18	08/06/09 14:38	08060918.D	5.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
19	08/06/09 15:18	08060919.D	25ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
20	08/06/09 15:59	08060920.D	50ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
21	08/06/09 16:39	08060921.D	100ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
ICAL saved as R13080609.M; Good from 0.1ng --> 100ng, except: Acetone: 2.5ng -->500ng and THF: 0.2ng -->100ng							
22	08/06/09 17:20	08060922.D	25ng TO-15 ICV STD	S20-07200902/S20-07240916	WA	2	failed, case file
23	08/06/09 18:10	08060923.D	Blank	S20-07200902	WA	4	
24	08/06/09 18:51	08060924.D	25ng TO-15 ICV STD	S20-07200902/S20-07240917	WA	2	Passed all cmpds.
25	08/06/09 19:31	08060925.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
26	08/06/09 20:11	08060926.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
27	08/06/09 20:53	08060927.D	CAS QC CAN/FC/Gauge (1000mL)	AC00687/FC00232/AVG00940	WA	5	
28	08/06/09 21:35	08060928.D	CAS QC CAN/FC/Gauge (1000mL)	AC00705/FC00189/AVG00655	WA	6	
29	08/06/09 22:17	08060929.D	CAS QC CAN/FC/Gauge (1000mL)	AC00931/FC00407/AVG01149	WA	7	
30	08/06/09 22:59	08060930.D	CAS QC CAN/FC/Gauge (1000mL)	AC00672/FC00783/AVG00900	WA	8	
31	08/06/09 23:41	08060931.D	CAS QC CAN/FC/Gauge (1000mL)	AC01257/FC00515/AVG00906	WA	9	
32	08/07/09 0:23	08060932.D	CAS QC CAN/FC/Gauge (1000mL)	AC00958/FC00678/AVG01072	WA	10	
33	08/07/09 1:04	08060933.D	CAS QC CAN/FC/Gauge (1000mL)	AC01527/FC00508/AVG01046	WA	11	
34	08/07/09 1:46	08060934.D	CAS QC CAN/FC/Gauge (1000mL)	AC01172/FC00256/AVG00986	WA	12	
35	08/07/09 2:27	08060935.D	0.2ng LOD Verification	S20-07200902/S20-07240912	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
18	08/19/09 2:48	08180919.D	P0902704-Blank (100mL)	[REDACTED]	WA	1	
19	08/19/09 3:28	08180920.D	P0902704-001 (100mL)	[REDACTED]	WA	3	
20	08/19/09 4:08	08180921.D	P0902704-002 (100mL)	[REDACTED]	WA	11	
21	08/19/09 4:49	08180922.D	P0902704-003 (100mL)	[REDACTED]	WA	12	
22	08/19/09 5:29	08180923.D	system		WA	16	
23	08/19/09 6:09	08180924.D	P0902697-001 dil (15mL)	[REDACTED]	WA	6	
24	08/19/09 7:19	08180925.D	P0902766-003 (1000mL)	[REDACTED]	WA	10	
25	08/19/09 8:01	08180926.D	P0902766-004 (1000mL)	[REDACTED]	WA	11	
26	08/19/09 9:09	08180927.D	P0902828-001 (2.5mL)	[REDACTED]	WA	4	
27	08/19/09 9:50	08180928.D	P0902828-002 (2.5mL)	[REDACTED]	WA	4	
28	08/19/09 10:42	08180929.D	P0902818-001 (200mL)	[REDACTED]	WA	3	
29	08/19/09 11:22	08180930.D	P0902818-001 dil (25mL)	[REDACTED]	WA	3	
30	08/19/09 12:03	08180931.D	P0902828-001 (15mL)	[REDACTED]	WA	1	
31	08/19/09 12:43	08180932.D	Blank		WA	4	<i>by spool</i>

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/20/09 7:33	08200901.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA	9	Passed
2	08/20/09 8:22	08200902.D	25ng TO-15 ACF STD	S20-08140906/S20-07220901	WA	15	Passed
3	08/20/09 9:04	08200903.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed
4	08/20/09 9:44	08200904.D	P0902854-001 (0.5mL)	[REDACTED]	WA	4	
5	08/20/09 10:26	08200905.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
6	08/20/09 11:11	08200906.D	P0902854-002 (100mL)	[REDACTED]	WA	6	
7	08/20/09 12:00	08200907.D	Blank	Rinse	WA	4	
8	08/20/09 12:40	08200908.D	Blank	Rinse	WA	5	
9	08/20/09 13:20	08200909.D	P0902854-001 (100mL)	[REDACTED]	WA	5	
10	08/20/09 14:00	08200910.D	P0902854-001 dil (25mL)	[REDACTED]	WA	6	
11	08/20/09 14:40	08200911.D	P0902854-002 (3.0mL)	[REDACTED]	WA	4	
12	08/20/09 15:20	08200912.D	P0902850-001 (100mL)	[REDACTED]	WA	8	
13	08/20/09 16:00	08200913.D	P0902851-001 (100mL)	[REDACTED]	WA	8	
14	08/20/09 17:54	08200914.D	P0902854-002 dil (0.5mL)	[REDACTED]	WA	7	
15	08/20/09 18:34	08200915.D	P0902851-001 dup (100mL)	[REDACTED]	WA	8	Passed
16	08/20/09 19:14	08200916.D	P0902850-001 dil (25mL)	[REDACTED]	WA	7	
17	08/20/09 21:15	08200917.D	System		WA	16	
18	08/20/09 21:57	08200918.D	P0902805-001 (1000mL)	Environmental Health 101309	WA	5	
19	08/20/09 22:38	08200919.D	P0902805-002 (1000mL)	Environmental Health 101310	WA	6	
20	08/20/09 23:20	08200920.D	P0902805-003 (1000mL)	Environmental Health 101311	WA	10	
21	08/21/09 0:01	08200921.D	P0902805-004 (500mL)	Environmental Health 101398	WA	11	
22	08/21/09 0:41	08200922.D	P0902805-006 (500mL)	Environmental Health 101400	WA	12	
23	08/21/09 1:21	08200923.D	P0902805-007 (500mL)	Environmental Health 101401	WA	13	<i>case file</i>
24	08/21/09 2:03	08200924.D	P0902805-005 (1000mL)	Environmental Health 101399	WA	14	
25	08/21/09 2:43	08200925.D	0.5ng RL	S20-08140906/S20-07310904	WA	9	
26	08/21/09 4:30	08200926.D	P0902804-001 (1000mL)	[REDACTED]	WA	1	
27	08/21/09 5:11	08200927.D	P0902804-002 (1000mL)	[REDACTED]	WA	3	
28	08/21/09 6:37	08200928.D	P0902805-001 dil (200mL)	Environmental Health 101309	WA	5	<i>by spool</i>

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/21/09 7:50	08210901.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA	9	Passed
2	08/21/09 8:34	08210902.D	25ng TO-15 ACF STD	S20-08140906/S20-07220901	WA	15	Passed
3	08/21/09 9:16	08210903.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed
4	08/21/09 9:56	08210904.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
5	08/21/09 10:36	08210905.D	P0902805-002 dil (200mL)	Environmental Health 101310	WA	6	
6	08/21/09 11:16	08210906.D	P0902805-004 dil (100mL)	Environmental Health 101398	WA	11	
7	08/21/09 11:56	08210907.D	P0902805-005 dil (100mL)	Environmental Health 101399	WA	14	
8	08/21/09 12:36	08210908.D	P0902805-006 (1000mL)	Environmental Health 101400	WA	12	
9	08/21/09 13:16	08210909.D	P0902805-007 dil (100mL)	Environmental Health 101401	WA	13	case file → not used
10	08/21/09 13:55	08210910.D	P0902805-006 dil (100mL)	Environmental Health 101400	WA	12	
11	08/21/09 14:47	08210911.D	P0902895-002 (0.2mL)	[REDACTED]	WA	4	
12	08/21/09 15:27	08210912.D	P0902895-001 (100mL)	[REDACTED]	WA	12	
13	08/21/09 16:39	08210913.D	P0902895-001 dup (100mL)	[REDACTED]	WA	12	Passed
14	08/21/09 17:21	08210914.D	P0902805-007 (1000mL)	Environmental Health 101401	WA	13	
15	08/21/09 18:03	08210915.D	P0902821-001 (1000mL)	[REDACTED]	WA	6	
16	08/21/09 18:45	08210916.D	P0902821-002 (1000mL)	[REDACTED]	WA	7	case file
17	08/21/09 19:27	08210917.D	P0902821-003 (1000mL)	[REDACTED]	WA	8	
18	08/21/09 20:08	08210918.D	P0902855-001 (1000mL)	[REDACTED]	WA	10	
19	08/21/09 20:50	08210919.D	P0902855-001dup (1000mL)	[REDACTED]	WA	10	extra, case file
20	08/21/09 21:31	08210920.D	blank (100mL)	rinse	WA	4	
21	08/21/09 22:11	08210921.D	P0902821-001 dil (25mL)	[REDACTED]	WA	6	
22	08/21/09 22:51	08210922.D	P0902821-002 dil (25mL)	[REDACTED]	WA	7	
23	08/21/09 23:31	08210923.D	P0902821-003 dil (25mL)	[REDACTED]	WA	8	
24	08/22/09 6:19	08210924.D	P0902821-002 (1000mL)	[REDACTED]	WA	7	
25	08/22/09 6:59	08210925.D	blank (100mL)	rinse	WA	4	
26	08/22/09 7:39	08210926.D	0.5ng RL Check	S20-08140906/S20-07310904	WA	9	15A 8/22/09
	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/24/09 7:50	08240901.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA	9	Passed
2	08/24/09 8:30	08240902.D	0.5ng RL Check	S20-08140906/S20-07310904	WA	9	Passed
3	08/24/09 9:12	08240903.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	case file
4	08/24/09 12:00	08240904.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	
5	08/24/09 12:54	08240905.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	case file
6	08/24/09 15:02	08240906.D	P0902842-002 (25mL)	[REDACTED]	WA	3	
7	08/24/09 15:42	08240907.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	case file
8	08/24/09 16:49	08240908.D	P0902842-009 (15mL)	[REDACTED]	WA	12	
9	08/24/09 17:30	08240909.D	P0902842-007 (25mL)	[REDACTED]	WA	10	
10	08/24/09 18:11	08240910.D	P0902842-001 (1000mL)	[REDACTED]	WA	1	
11	08/24/09 18:52	08240911.D	P0902842-002 (25mL)	[REDACTED]	WA	3	
12	08/24/09 19:34	08240912.D	P0902842-003 (1000mL)	[REDACTED]	WA	5	
13	08/24/09 20:16	08240913.D	P0902842-004 (1000mL)	[REDACTED]	WA	6	
14	08/24/09 20:56	08240914.D	P0902842-007 dup (25mL)	[REDACTED]	WA	10	extra, case file
15	08/24/09 21:38	08240915.D	P0902842-005 (1000mL)	[REDACTED]	WA	7	